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# The Hanford 67-Series: A Volume of Atmospheric Field Diffusion Measurements

by
P. W. Nickola

November 1977

Prepared Jointly for the
U.S. Department of Energy and
U.S. Nuclear Regulatory Commission
under Contract EY-76-C-06-1830

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Pacific Northwest Laboratories

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# THE HANFORD 67-SERIES: A VOLUME OF ATMOSPHERIC FIELD DIFFUSION MEASUREMENTS

by
P. W. Nickola
Atmospheric Sciences Department

Prepared under Contract No. EY-76-C-06-1830

for

The Division of Biomedical and
Environmental Reasearch,
Department of Energy

and

The Division of Reactor Safety Research,
Nuclear Regulatory Commission

November 1977

BATTELLE
Pacific Northwest Laboratories
Richland, Washington 99352

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The assembling of data and publication of this document is jointly sponsored by the above-mentioned ERDA Division and by the Division of Reactor Safety Research of the Nuclear Regulatory Commission.



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## ABSTRACT

*This volume documents atmospheric diffusion experiments carried out at the Hanford reservation during the period 1967 to 1973. A total of 103 tracer releases during 54 release periods is tabulated. Multi-tracer releases (generally from different elevations) were made during most of the experimental periods. Release heights varied from ground level to an elevation of 111 m. Tracers were sampled simultaneously on as many as 10 arcs at distances of up to 12.8 km from the tracer release point. As many as 718 field sampling locations were employed during some of the experiments. Vertical profiles of concentration were monitored on towers during 23 of the 54 release periods. Concurrent vertical profiles of mean temperature, of mean wind speed and direction, and of direction standard deviation are also tabled for elevations up to 122 m.*




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# THE HANFORD 67-SERIES: A VOLUME OF ATMOSPHERIC FIELD DIFFUSION MEASUREMENTS

## INTRODUCTION

During the period 1959 to 1973, more than 300 atmospheric field diffusion experiments have been conducted at the Hanford reservation* near Richland, Washington. This volume documents 103 of the more recent of these experiments. Both diffusion and concurrent meteorological data are presented in, hopefully, user-oriented format.

Prior to this volume, some of the earlier of the 300 experiments have been described in reports or journal articles. The 1959 experiments, dubbed the Green Glow diffusion program, were documented by Barad and Fuquay[1]. They included detailed diffusion and meteorological data for the 27 Green Glow field tests. Green Glow tracer releases were from an elevation of 2 to 3 meters. Sampling included both ground-level and tower arrays.

These near ground-level tracer releases with both horizontal and vertical sampling arrays continued at Hanford with a series of 42 field experiments in 1960, 1961, and 1962 known as the Hanford 30-Series. Selected ground-level diffusion data and meteorological data from both the Green Glow and 30-Series experiments were tabled by Fuquay, Simpson and Hinds in a journal article in 1964.[2] Only the more "reliable" tests were considered in the journal article -- 16 Green Glow and 30 Series-30 experiments.

Concurrent with the 30-Series, another group of field experiments began at Hanford. These more than 200 tracer

*Currently under the jurisdiction of the Department of Energy.



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releases, beginning in the fall of 1960, were primarily elevated source experiments. The individual experiments (or subgroups of experiments) in this total of 200 were designed to investigate a variety of specific areas in the more general realm of diffusion. Results of these investigations have been presented in a variety of forums -- including annual reports[3] to the sponsors, the Atomic Energy Commission and more recently the Environmental Research and Development Administration. However, measurements made during these field experiments have pertinence in areas beyond the narrower original objectives. It is with this thought in mind that this current data volume is published.

The diffusion experiments documented in this volume are the portion of those described in the preceding paragraph which were carried out at Hanford since July 1967. These have been rather arbitrarily labeled the Hanford 67-Series. Following publication of this report, there remain approximately 100 Hanford field diffusion experiments (carried out between 1960 and June 1967) which have not been documented in a fashion convenient for general research use. The experiments considered in the 67-Series have been selected primarily on the basis of being more recent, and hence having pertinent diffusion/meteorology data more readily accessible to the author than the pre-July 1967 experiments.

The 103 tracer releases of the Hanford 67-Series were carried out during 54 different experimental periods. Multi-tracer releases (generally from two different elevations) account for the fact that the number of tracer releases is greater than the number of experimental periods. Meteorological measurements made during the tracer releases include vertical profiles of wind speed, wind direction and temperature. Release duration was generally 30 minutes. As few as 63 and as many as 718 field locations were employed in



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sampling tracer concentration during a given release. In 32 of the 103 releases, ten or more towers were employed downwind of the source in an attempt to define vertical concentration distributions. Tower height varied from 27 m to 62 m. As few as two and as many as ten sampling arcs, concentric about the release point, were used in the deployment of tracer samplers. The radii of these arcs varied from 0.2 km to 12.8 km from the source. Tracer was released at an elevation of 1 m, 2 m, 26 m, 56 m, or 111 m. Details of the meteorology and of tracer dispersal and sampling for each experiment follow in the body and appendices of this report.

## THE FIELD GRID

The Hanford reservation is located in a semi-arid region in the southeast of the state of Washington. The natural vegetation in the area is sagebrush 1 to 2 m in height interspersed with steppe grasses. Figures 1, 2, 3 and 4 give some idea of the nature and density of the vegetation.

The center of the reservation is about 200 m above mean sea level. Although the reservation is nearly surrounded by hills or bluffs on all sides (some reaching as high as 1000 m msl), the field diffusion grids are located near the center of this approximately 40-km diameter basin.

Figure 5 shows the diffusion sampling grids superimposed on a contour map. The bulk of the sampling arcs are located on a relatively flat area where the extremes in elevation range from 200 m to 230 m msl. The most distant tracer sampling arc, 12.8 km from the source, is at an elevation about 35 m lower than the nearer-source sampling arcs.

The primary or "ground-level" sampling on the Hanford diffusion grids is done at an elevation of 1.5 m, an elevation that approximates the breathing height of man. About 1000



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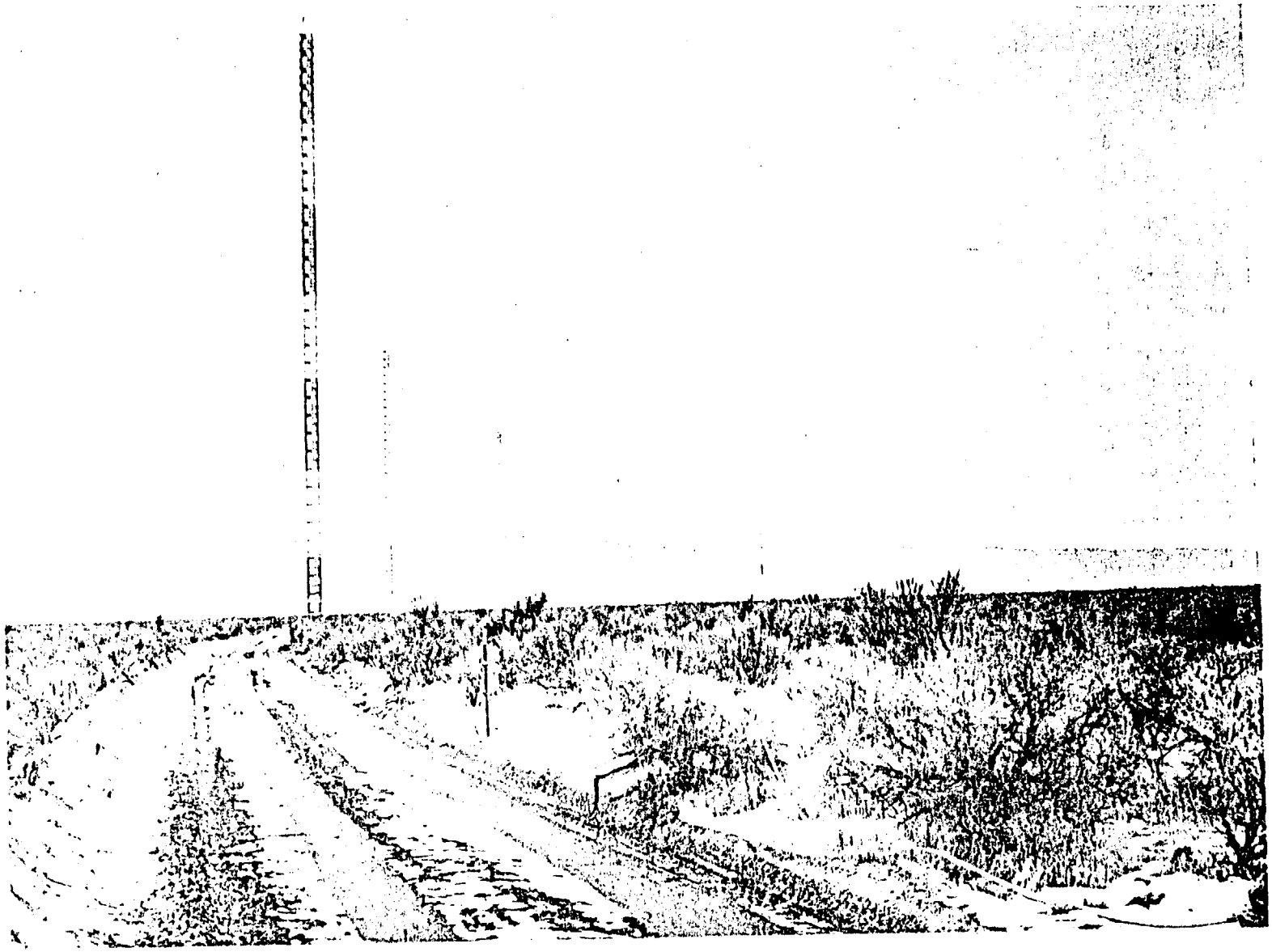

Figure 1. View looking south along arc 1600 m from S-source. The 62-m towers are spaced at 8° intervals. Vacuum hose and stakes at two ground-level sampling locations are also visible.



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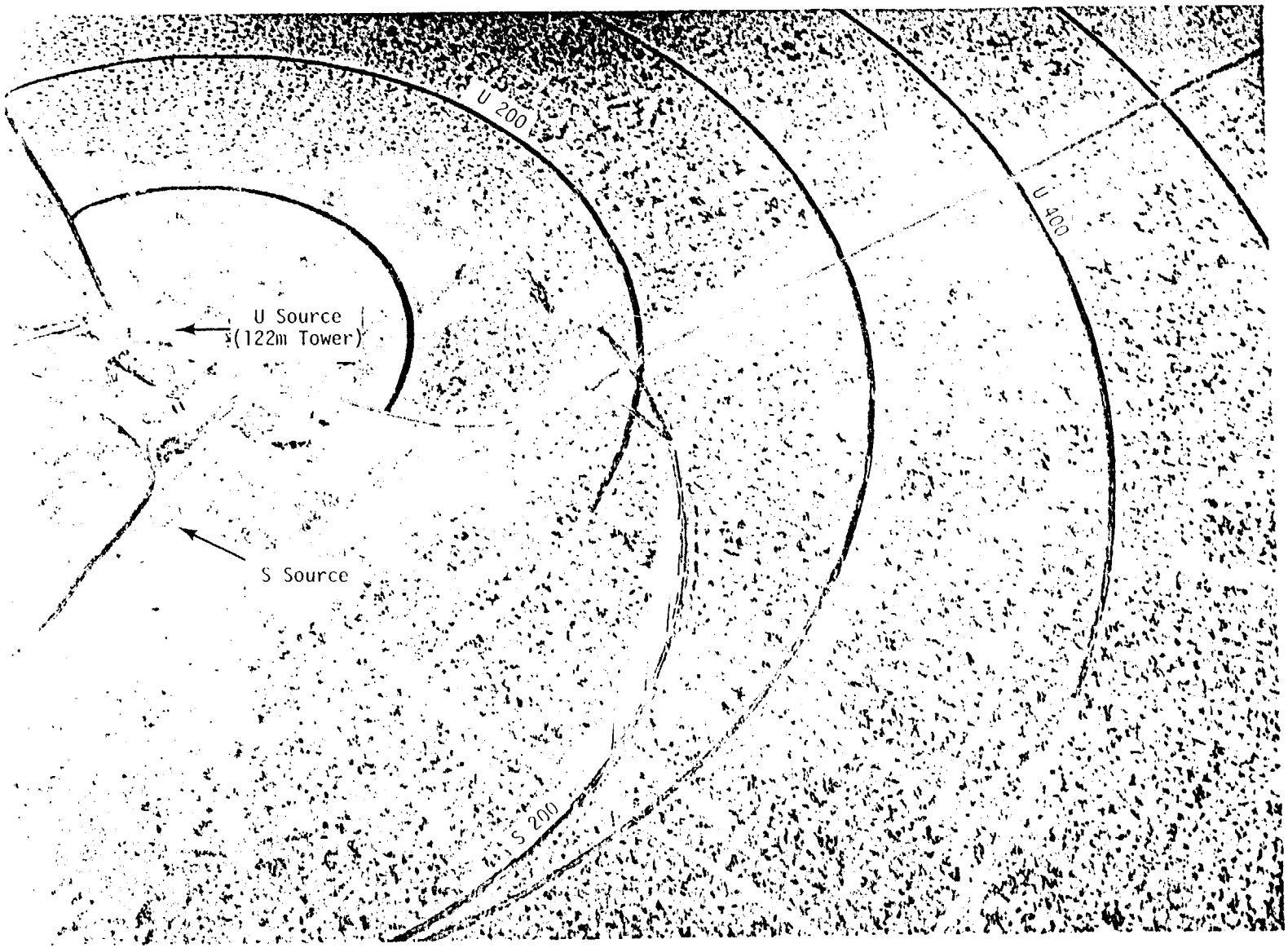


Figure 2. Aircraft view of near-source arcs on Hanford Diffusion Grid.



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Figure 3. Aircraft view showing sampling arcs to distances of 1600 m from U- and S-sources. The S-source and associated arcs have been retouched to aid in their identification.



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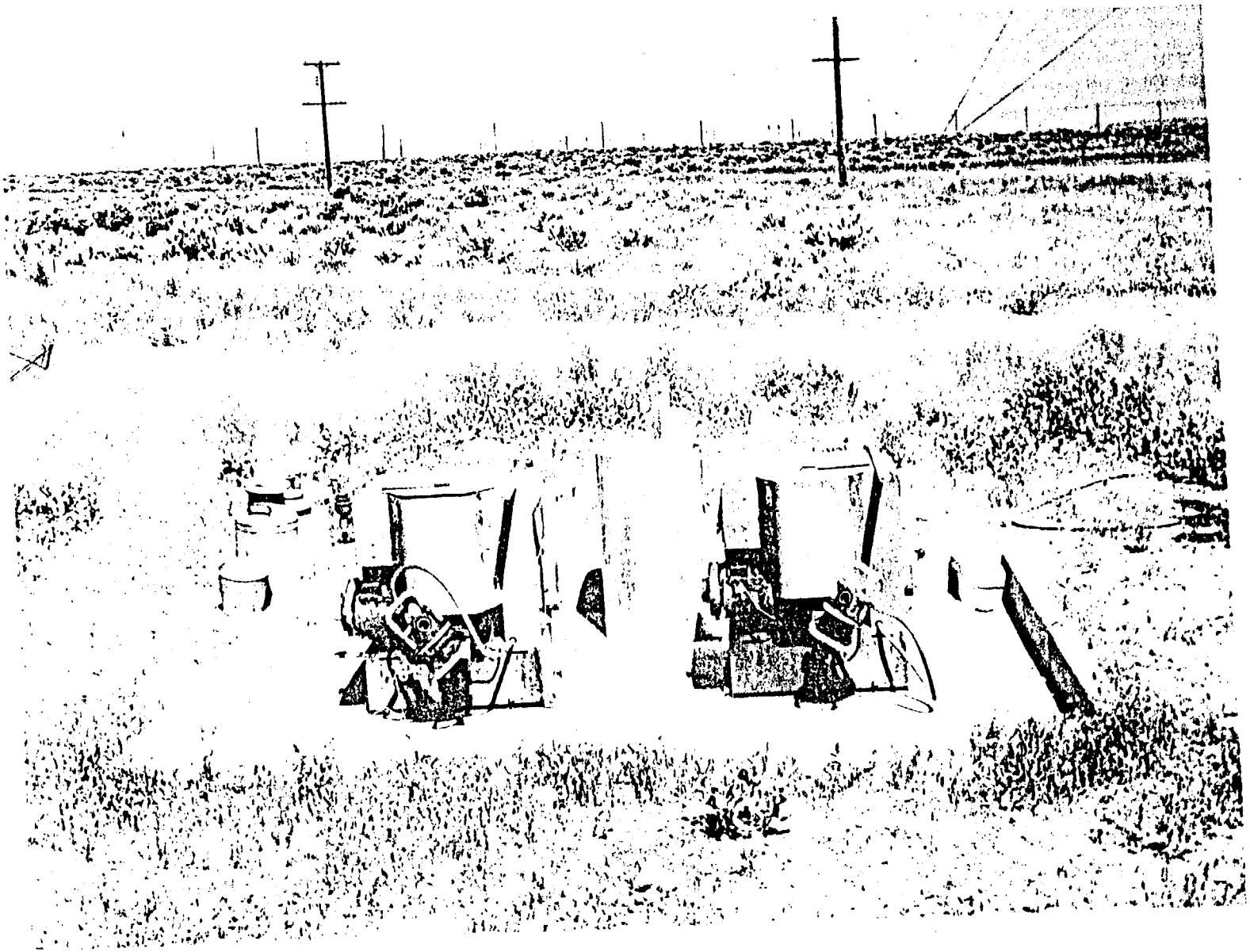

Figure 4. Insecticidal sprayers used in dispersal of ZnS and fluorescein tracers. View looks upwind from the S-source.



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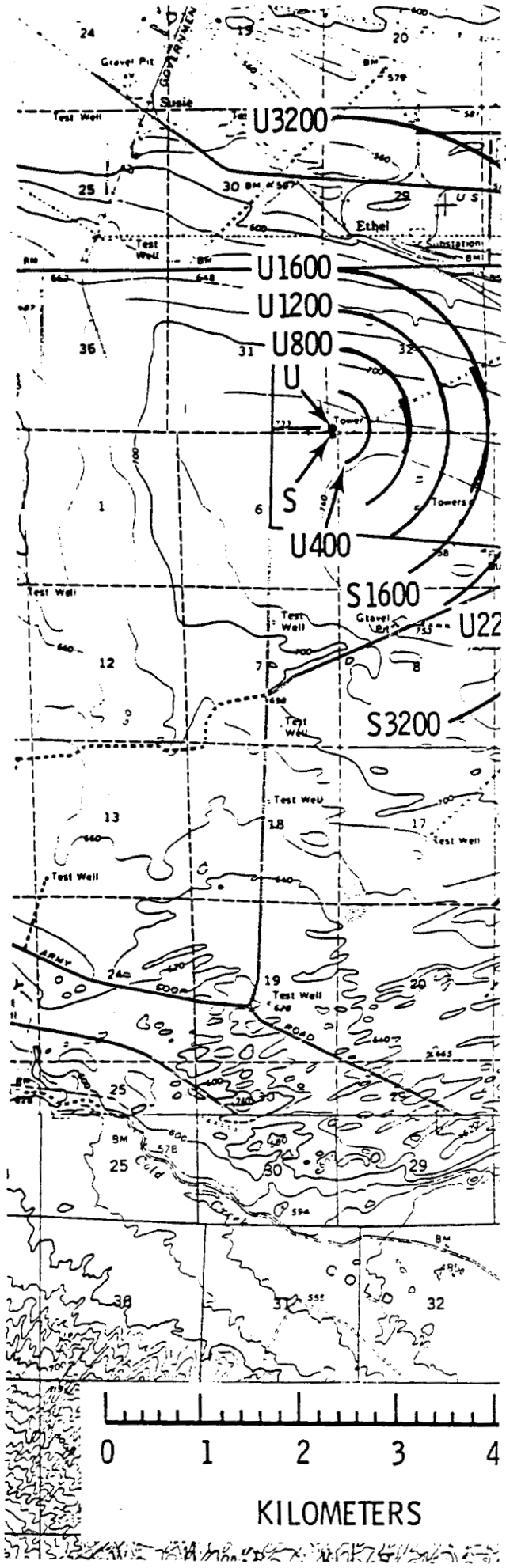


Figure 5. The diffusion grids superimposed on a contour map. Contour interval is 6.1 m (20 ft). (The 200-m arcs are not diagrammed.)

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ground-level sampling locations are instrumented with vacuum sources.

Power for field vacuum pumps is supplied by hundreds of gasoline or propane fueled internal combustion engines. A single engine/pump assembly draws vacuum for 1 to 9 sampling stations, with the number depending on the flow rate required at the stations. Flow at each sampling station is controlled by inserting a critical flow orifice in the vacuum line just downstream of the filter-filter holder assembly upon which the particulate tracers are collected. Flow through each sampler is constant as long as the pressure drop across the control orifice is greater than half an atmosphere. This pressure drop is monitored for each engine/pump assembly by inserting a vacuum gauge in the vacuum line immediately downstream of the orifice at the most remote sampler serviced by that assembly.

The ground-level sampling can be supplemented by 365 tower-mounted sampling stations. The towers, as tall as 62 m and as far removed as 3.2 km from the tracer release point, are discussed in more detail later in this section. Vacuum and flow control to the towers are accomplished in a manner similar to that already described for the ground-level sampling.

The vacuum/filter field system described in the preceding paragraphs is employed in the collection of particulate tracers. A much less extensive but more sophisticated sampling network was also deployed on portions of the Hanford field grids during the 67-Series. This system[4,5,6] employed Geiger-Müller tubes at up to 127 field locations to monitor concentrations of the inert gas krypton-85 during nine field experiments. Although the inert gas system recorded the real-time history of tracer concentration at all Geiger tube locations, only the time-integrated concentrations (exposures) are reported in this volume. An earlier data volume[7] reported



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real-time concentration measurements for five of the nine krypton releases summarized in the current volume.

The sampling grid(s) used during the 67-Series evolved from grids laid out in 1959 and 1960. The grids were designated the "U" and the "S" grids because their original use was restricted to either thermally unstable (U) or thermally stable (S) atmospheres. The U-grid is laid out in a series of arcs of circles concentric about a 122-m tower. This configuration is evident in Figures 2 and 3. Several arcs concentric about the U-source on these figures are labeled with the letter "U" followed by the radial distance in meters from source to arc. The arcs of the U-grid actually used in one or more of the 67-Series experiments, the crosswind extent of those arcs and other grid design specifications are given in Table 1. The intent is not to imply that all arcs or even the complete angular extent of a selected arc were employed during each field experiment. Experimental objectives, meteorological conditions, and manpower available all were factored into decisions as to which samplers should be activated.

The S-grid source, used with only near ground-level tracer releases, is located 100 m due south of the U-grid source. This location was selected so as to minimize the wake effect of buildings at the base of the 122-m tower. Figure 4 is a view looking "upwind" from the S-source. The S-source is also indicated on Figures 2 and 3. Fewer concentric arcs were instrumented about the S-source. The three arcs closest to the S-source are darkened and labeled on Figure 3. S-grid arcs used during the 67-Series were S200, S800, S1600, S3200 and S12800. The number designation, as with the U-arcs, gives the radial distance in meters from S-source to sampling arc. Further detail on the S-grid is given in Table 1.

Two more "arcs" of opportunity were laid out with azimuths related to the U-source. These so-called arcs were not arcs



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TABLE 1

Design Specifications of Hanford "U" and "S" Diffusion Grids

| Grid Source[1] and Distance from Source (m) | Range[2] of 1.5 m Sampling Azimuths | Sampler Spacing | Sampler Flow Rate ($\times 10^{-4}$ $m^3$/sec) | Towers | | |
|---|---|---|---|---|---|---|
| | | | | Samples/ Tower | Height (m) | Azimuths |
| U200 | 342° to 160° | 4° | 5.07[4] | 17 | 33 | 102°, 110°, 118°, 126°, 134° |
| U300 | 340° to 120° | 4° | 5.07 | | | |
| U400 | 342° to 154° | 4° | 5.07 | | | |
| U500 | 340° to 120° | 4° | 5.07 | | | |
| U600 | 342° to 122° | 4° | 5.07 | | | |
| U700 | 340° to 120° | 4° | 5.07 | | | |
| U800 | 340° to 121° | 3° | 5.07 | | | |
| U1200 | 360° to 156° | 2° | 9.09 | | | |
| U1600 | 360° to 122° | 2° | 9.09 | | | |
| U2200 | 48° to 156° | 2° | 17.5[5] | | | |
| U3200 | 360° to 114° | 2° | 17.5 | | | |
| U5000[3] | 82° to 156° | 2° | 17.5 | | | |
| U7000[3] | 76° to 146° | 2° | 17.5 | | | |
| S200 | 68° to 158° | 2° | 1.48 | 17 | 27 | 98°, 106°, 114°, 122°, 130° |
| S800 | 70° to 160° | 2° | 1.53 | 18 | 42 | 98°, 106°, 114°, 122°, 130° |
| S1600 | 70° to 154° | 1° | 2.32 | 19 | 62 | 98°, 106°, 114°, 122°, 130° |
| S3200 | 72° to 157° | 1° | 5.13 | 19 | 62 | 98°, 106°, 114°, 122°, 130° |
| S12800 | 91° to 151° | 1° | 17.5 | | | |

[1]Source "U" is at 122-m tower; Source "S" is 100-m south of Source U.

[2]Not all samplers activated during each experiment.

[3]Approximate distance only.

[4] 1.48 x $10^{-4}$ $m^3$/sec during "V" tests.

[5] 5.13 x $10^{-4}$ $m^3$/sec during "V" tests.



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of circles, but were merely tracer sampling stations set out along existing roads or trails. They were dubbed the U5000 and U7000 arcs in correspondence with the approximate source-to-sampler distances involved. The specific source-to-sampler distance is tabled in Appendix A each time a U5000 or U7000 sampler intercepted tracer. Figure 5 shows the configuration of the U5000 and U7000 arcs.

For reasons of economy, efficiency or experimental design, it frequently became advantageous to activate parts of the S- and U-grids simultaneously. (For instance, a wider range of acceptable experiment wind directions was possible.) However, tracer sampling stations located at a constant distance and evenly spaced in azimuth on, say, the S-course, were at varying distances and azimuth spacing with respect to the U-source. This non-concentric effect is most significant at distances close to the source, as is evident in comparing locations of the U200 and S200 arcs on Figures 2 and 3. U and S sampling arcs become more nearly congruent at greater distances as is exemplified by the U1600 and S1600 arcs in Figure 3. When displacement of the tracer release source from the center of the employed sampling grid occurred, it was considered in the azimuths and distances reported -- with the exception of the sampling at the S12800 arc. Even when release was from the U-source, the S12800 diffusion data were reported without correction since the 100-meter maximum error in distance and the less than one-half degree maximum error in stated azimuth were deemed of minimal importance.

Twenty towers were instrumented for tracer sampling on the S-grid. These towers were placed at azimuths of 98°, 106°, 114°, 122° and 130° on the S200, S800, S1600 and S3200 arcs. Tower heights were 27 m, 42 m, 62 m and 62 m at the S200, S800, S1600 and S3200 arcs, respectively.



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The 100-m separation of the S- and U-sources caused some complication when vertical sampling was desired with an elevated release. Elevated release was not possible from the S-source, and the geometry of the field grids was such that a release of tracer at the U-source could likely not be sampled on both the S200 towers and the more distant S-grid towers. A curved trajectory would have been necessary. The problem was solved to a great extent by the erection of five towers on the U200 arc. These towers at azimuths of 102°, 110°, 118°, 126° and 134° align reasonably well on a radial from the U-source through the S-tower arrays at the greater distances. The U200 towers, 33 meters in height, were used in only the eight "V" experiments conducted after the summer of 1972.

## TRACER RELEASE, SAMPLING AND ASSAY

Four different tracers were released during the Hanford 67-Series. Small particulate tracers employed were zinc sulfide fluorescent powder (ZnS FP), fluorescein and rhodamine B. The fourth tracer, krypton-85, is an inert gas. The three particulate tracers were collected on membrane filters, and concentrations determined in laboratory procedures which depended upon the fluorescent properties of the tracers. Assessment techniques were discriminatory to the extent that collection of ZnS and fluorescein or ZnS and rhodamine on a common filter proved no problem. Krypton-85, by virtue of its radioactivity, was monitored *in situ* by Geiger-Müller tubes.

### Zinc Sulfide Fluorescent Particulate 2210

Use of fluorescent paint pigment (FP) as an atmospheric tracer was initiated in 1946 and documented in 1955[8] at Stanford University under the auspices of the U.S. Army Chemical Corps. The Hanford meteorology group began investigation of the use of such fluorescent pigments in 1952, and made use of FP field techniques on a relatively modest scale



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through 1958. The development in 1958 of an optical-electronic device[1,9] (which obviated the need for a tedious "man-and-microscope" sample assay procedure) facilitated the laboratory assay of the large number of FP samples collected during the Green Glow and subsequent Hanford field diffusion programs.

The FP selected for use in the Hanford technique is Helecon Fluorescent Pigment 2210 manufactured by U.S. Radium Corp., Morristown, New Jersey. It is ZnS with an activator placed interstitially in its crystalline structure. These particulates have a specific gravity of 4.1. Based on optical microscope sizings at 1000X magnification, the number median (geometric mean) diameter of FP 2210 is about 2.1 μm. Using methods detailed by Green and Lane[10], the geometric standard deviation ($\sigma_g$) and the mass median diameter can be computed. ($\sigma_g$ is defined as the standard deviation of the logarithms of the particle radii about the mean. The mass and number $\sigma_g$ values are identical for log normal size distributions.) The mass median diameter and $\sigma_g$ for the FP 2210 used in the 67-Series are 4.1 μm and 1.6 μm, respectively. Presuming Stokes law for spheres applies, the number and mass diameters translate to terminal fall velocities of 1.9 m/hr and 7.6 m/hr, respectively.

The ZnS tracer was dispersed to the atmosphere through a commercial insecticidal sprayer. Two of these dispersal devices are shown on Figure 4. A measured quantity of the tracer (generally 1 to 4 kg) was added to a known volume of liquid carrier (generally about 150 ℓ). ZnS is insoluble in the liquid carrier. The tracer was maintained in suspension by insertion of a heavy-duty industrial propeller into the approximately 200 ℓ cylindrical tank (Figure 4) in which the tracer-liquid carrier was mixed. The tracer-carrier suspension was drawn directly from the cylindrical tank by the commercial sprayer unit. In the sprayer, the suspension was



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pumped to a nozzle assembly where it was atomized by mixing with a jet of heated air and dispersed to the atmosphere. The total tracer dispersed was determined by measuring liquid level in the cylindrical tank before and after tracer dispersal.

The temperature of the air used in the atomization was approximately 400°C. This high temperature was instrumental in producing a spray that was sensibly dry a few meters from the generator nozzle. The evaporation of the liquid carrier aided in the dissipation of heat so that the effluent from the generator felt dry and thermally comfortable to the hand within 1 to 2 m from the nozzle.

In the early years of use of this Hanford tracer dispersal technique, the liquid carrier used was water. Some concern developed over the possibility that, under high humidity conditions, the evaporation of the water carrier in the nozzle spray might take place so slowly that there would be a significant gravitational settling. Therefore, a more volatile carrier, trichloroethane ($CH_3CCl_3$), was frequently employed as the liquid carrier in many of the later experiments. The difficulty in use of trichloroethane was that it did not act as a lubricant (as water apparently did) in the insecticidal sprayer. Many more mechanical difficulties or failures of the tracer dispersal equipment occurred when trichloroethane was used. Although it is difficult to assess any field differences that might be due to a difference in carrier used, it can be qualitatively stated that at Hanford there was no obvious effect attributable to the carrier used in the dispersal process.

In the 67-Series, trichloroethane was used in the dispersal of ZnS in all experiments except four. In Tests V5, V6 and V7, water was used as the carrier. In the final test of the series, V8, a commercially available dry FP tracer dispenser was used.



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This dry dispenser, manufactured by Metronics Associates, Incorporated, of Palo Alto, California, is described by Leighton et al. in a 1965 journal article.[11] This device evolved from the early Stanford University work with FP. In the early 1950's, a Hanford dry dispenser was built from prints obtained from the Stanford group. Hanford personnel were unable to obtain a constant tracer dispersal rate with this early model dry dispenser. This problem led to the more cumbersome wet dispersal technique which has already been described. A constant dispersal rate was demonstrated with the wet dispersal technique. Further details of the dispersal rate determination -- and of the wet dispersal technique -- are given in Chapter V of the Green Glow documentation.[1]

The possibility was considered that the wet dispersal technique would result in a significant agglomoration of individual tracer particles. However, in the years preceding development of a semi-automated device for assessment of FP 2210 at Hanford, a great number of filters were examined and particles were visually counted with the aid of a microscope and ultra-violet illumination. Very few agglomorates were observed during these microscopic examinations. The wet dispersal technique was in use at that time.

A comment should be made regarding the high temperatures to which the ZnS fluorescent particulates were subjected during the dispersal process. There was concern that the 400°C temperature might alter the fluorescent properties of the tracer even though the high temperature was experienced for only a fraction of a second. Nickola[12], in 1963, subjected samples of FP 2210 to temperatures of 1000°C for periods up to 20 sec without discernible changes between the pre-heated and post-heated masses indicated when the samples were assayed on the soon-to-be-discussed Rankin counter assay device.



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It was also demonstrated in 1963[12] that FP 2210 was not affected by exposure to bright sunlight -- as has been observed[13] for other fluorescent powders. Filters were selected from a field experiment in which tracer dispersal, field sampling and filter retrieval from the field all occurred during hours of darkness. The filters were stored in an opaque box until they were assayed for FP 2210. Subsequent to the original assessment, the filters were exposed to bright sunlight for more than 7 hours before reassessment. (The Rankin counter assessment used does not destroy or alter the field samples.) There was no reduction in the measured mass of FP on the filters.

The filter employed in collecting particulate tracers was a polyvinyl chloride membrane filter designated type VM-1 by the manufacturer, the Gelman Instrument Company of Ann Arbor, Michigan. This filter offers a compromise between the opposing requirements of minimal restriction to flow through the filter and of a flat surface upon which to retain the sampled ZnS. (The latter requirement is germane to the ZnS assay procedure which will be discussed presently.)

The 47 mm diameter filter is inserted into a polyethylene filter holder assembly which leaves a circular area 41 mm in diameter exposed for tracer collection. Figure 6 shows several of these assemblies in place in the turntables of the assay device (Rankin counter). Between the counters, two of the filter assemblies are shown turned face down to display the ribbed nozzle which can be inserted in a neoprene grommet at each field sampling location. A dust cap (as on the assembly marked "1-122" on Figure 6) is placed over the filter-filter holder assembly during handling and storage. In order to minimize tracer contamination from experiment to experiment, all filter-filter holder assemblies are used only once before being discarded.



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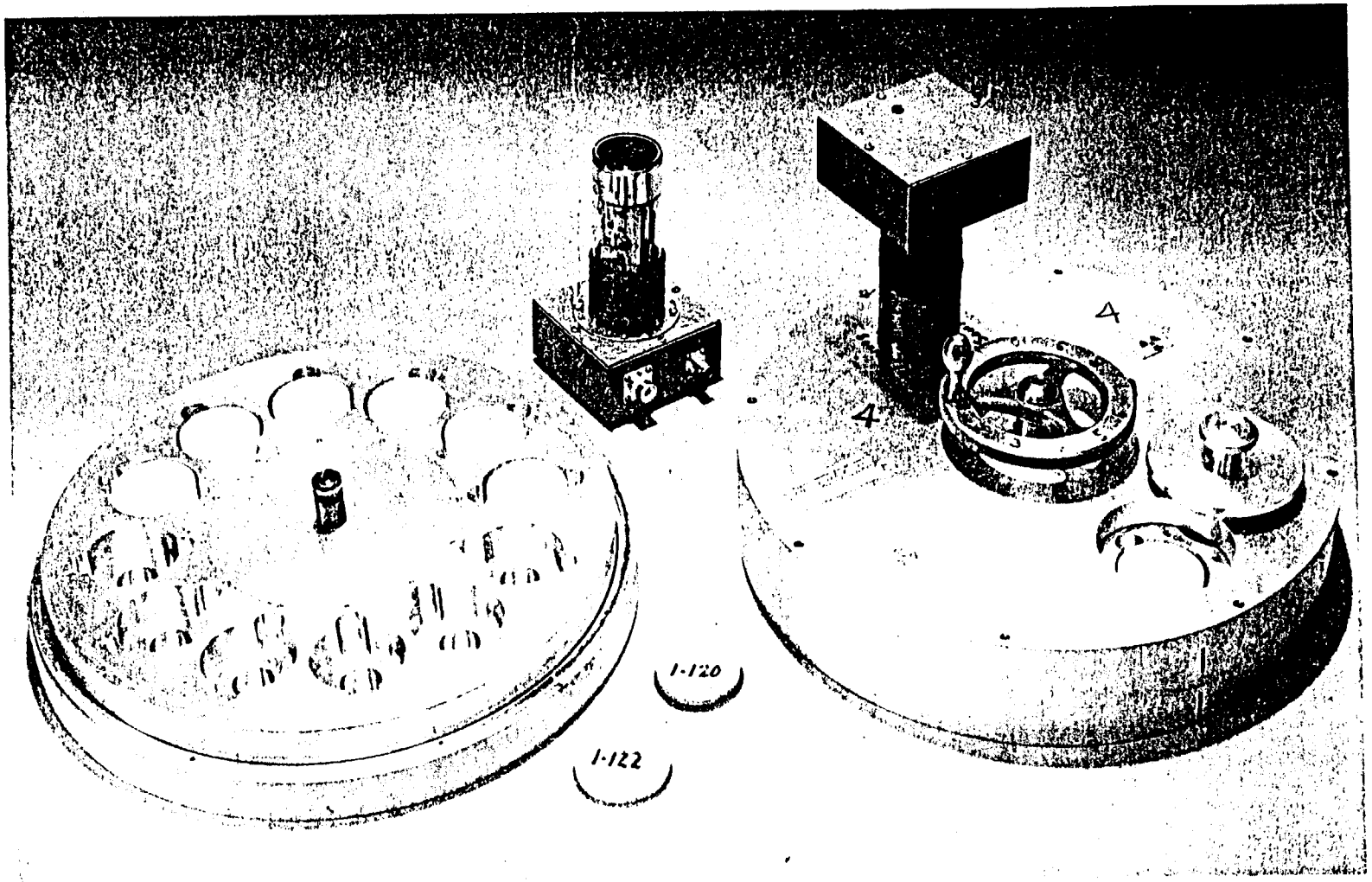


Figure 6. Assembled Rankin counter (right) and disassembled Rankin counter (left) with several field filter assemblies in place for assessment.



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Membrane filters from the field were assayed for ZnS FP 2210 by the Rankin counting method[1,9] developed at Hanford in 1958. An assembled Rankin counter is shown at the right in Figure 6. A Rankin counter with top removed to expose a turntable is shown at the left. After the dust cap is removed from a field sampler, the remaining filter-filter holder assembly is inserted into a circular cavity in the turntable. Several filters can be seen in these cavities on Figure 6. The exposed filter is rotated until it lies directly below a multiplier phototube. Here a 200-microcurie plutonium source, in the shape of an annulus about the face of the phototube, bombards the face of the filter with alpha particles. If there is any FP on the filter face, it is excited to fluorescence by the alpha bombardment, and the scintillations are monitored by the phototube, amplified and counted by a scaler. The VM-1 filter, which retains the bulk of the FP on its surface rather than allowing deeper penetration, enhances the probability of the short-range alpha particles reaching the FP and of the resulting scintillations being seen by the photomultiplier. The Rankin counter calibration is specific for the type filter employed.

Design of the counting pig permits the operator to insert or remove a filter from the turntable at the same time another filter is being counted under the phototube. This procedure was a significant time saver in view of the large number of filters assayed for each experiment.

Normal counting time employed during the 67-Series was one minute for each filter. The count rate on unexposed filters was generally zero. Field exposed background filter count rates were from 0 to about 6 counts/min due, presumably, to some foreign fluorescent material in the ambient atmosphere. Despite precautions, infrequently there was strong evidence of contamination of some exposed filters with the ZnS tracer. This contamination was generally associated with tower samples



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where it was more difficult to minimize the handling of filter assemblies during field deployment and collection.

The Rankin counter underwent a primary calibration against a series of filters of well established mass several times during the Hanford 67-Series. The calibration in effect at the end of the series was

$$M = \left(2.06 \times 10^{-10}\right) C \quad ,$$

where M is mass of ZnS FP 2210 in grams and C is Rankin counts/min. If the level of detection with confidence is considered as 20 counts/min (about 3 times the maximum field background), the corresponding mass was about $4 \times 10^{-9}$ grams. Count rate reproducibility is good with the Rankin counter, particularly at the higher count rates. The ratio of count rate standard deviation to mean count rates of 100, 1000, 10,000 and 100,000 counts/min are 0.16, 0.048, 0.038 and 0.012, respectively.

The Rankin counter was also checked (and tuned electronically, if necessary) against a standard filter left continually in one of the twelve turntable cavities. Inasmuch as the standard filter was counted each time it passed beneath the photomultiplier, this secondary calibration occurred once for each 10 field filters assayed. (A background filter occupied the twelfth turntable cavity.)

One difficulty with the Rankin counting technique is that atmospheric dust -- or carbon from the internal combustion engines associated with the field vacuum system -- can collect on the filter face and degrade the scintillations monitored by the photomultiplier. Accordingly, a series of previously assayed filters with ZnS thereon, but which had a clean appearance, were intentionally subjected to tracer-free but dust-laden air. The filters were ranked subjectively from 1 (clean) to 10 (extremely heavy dust load) according to their post-dust



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visual appearance. It was found that assay of filters with dust nomenclature of 4 or less was essentially unaffected by the dust. With successively higher dust nomenclature, increasingly greater count rate degradation was observed. Therefore, in the exposures for ZnS listed in Appendix A of this report, dust nomenclature is indicated for filters graded 5 or greater. This point will be discussed further in the section entitled "The Experiments".

Perhaps it should be pointed out that a liquid scintillation counting technique[1,14] is available which to a large extent overcomes the ZnS assay problems caused by dust-laden filters. However, the laboratory procedure is a much more tedious "wet" procedure than the simple Rankin counting approach. This fact, plus the relatively few dusty filters encountered during the 67-Series, led to the decision not to employ this more elaborate assay technique.

In order for a filter to sample particles carried in a fluid stream properly, the fluid velocity at the filter face should equal the ambient fluid stream velocity. In this isokinetic flow situation, the fluid streamlines neither diverge nor converge at the filter. Therefore, the particles imbedded in the fluid are sampled properly. However, if the face velocity at the filter is substantially greater or less than the ambient fluid velocity, the particles carried by the fluid will not (by virtue of their greater density than the fluid) faithfully follow the fluid streamlines in the vicinity of the filter. In the case of the Hanford field vacuum grid, the filter face velocities were essentially always less than ambient wind speed, resulting in sub-isokinetic sampling.

Sehmel[15], in a 1966 wind tunnel study, investigated non-isokinetic sampling effects using ZnS FP 2210 and the standard Hanford field filter. He derived corrections for nonisokinetic flow which are functions of wind speed and filter flow rate.



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Sehmel's corrections have been applied to all the ZnS data presented in this report.

Fluorescein

An atmospheric tracer technique using uranine dye, the sodium salt of fluorescein, was reported by Robinson, et al. in 1958.[16] The possibility of using this dye as a tracer to complement the existing ZnS FP 2210 technique was first investigated at Hanford in 1961,[17] with early field results reported by Nickola[18] and by Ludwick.[20] The term fluorescein, rather than the specific salt, uranine, has been applied to the dye in Hanford nomenclature. This dye is available through industrial chemical suppliers.

The fluorescein used during the Hanford 67-Series was labeled "Uranine Conc. Code 1801" by the vendor, Allied Chemical Company, San Francisco, California. These particulates have a specific gravity of 1.53. Based on microscope sizing at 1000X magnification, the specific batch of fluorescein used had a number median diameter of 1.4 μm, a mass median diameter of 18.6 μm and a $\sigma_g$ of 2.5. The number and mass median diameters translate to terminal fall velocities of about 0.4 and 64 m/hr if Stokes law is applied.

As with the ZnS, dispersal of fluorescein was by means of a commercial insecticidal sprayer. The liquid carrier used in the dispersal tank was trichloroethane. Fluorescein is insoluble in this liquid. The dispersal process used in all but two 67-Series fluorescein releases was as described for the Zns releases.

During Tests U91 and U92, the fluorescein dispersal technique was altered. In these two tests, the liquid in the mixing tank was water. Fluorescein was added to give an approximate 2.6% solution of fluorescein in water. This solution was dispersed to the atmosphere at a rate of about 95 ℓ/hr.



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Although no particle-size measurements were made during field tests U91 and U92, the manufacturer specifications on the insecticidal sprayer indicate that a droplet size of about 25 μm diameter should be generated with the sprayer control settings employed and the liquid consumption rate observed. Stein et al.[19] measured the density of fluorescein particles generated through nebulization as 0.58 g/cc. Presuming this density and the parent droplet size of 25 μm apply, the resultant diameter of the dry fluorescein particle during Tests U91 and U92 was 8.8 μm with an associated Stokes terminal velocity of 5.0 m/hr. The lack of a measured size distribution of particles or droplets precludes further detail.

The filter employed for collection of the fluorescein tracer has already been described in the discussion of the ZnS tracer. In the cases where both ZnS and fluorescein were dispersed and sampled, the ZnS assay on the dry filter was carried out first. The filters were then placed individually in glass vials. Distilled water was added to dissolve the fluorescein particulates on the filter, leaving the insoluble ZnS imbedded on the filter. The fluorescein solution was then assayed with a previously calibrated spectrophotofluorometer with excitation and emission wave lengths tuned for optimum performance. The fluorometer employed was model number 4-8202 manufactured by the American Instrument Company of Silver Spring, Maryland. The analytical technique is explained in greater detail by Ludwick.[17,20]

Although less than $1 \times 10^{-11}$ gram of fluorescein was detectable under laboratory conditions, field pollutants and filter-to-filter background variance resulted in a more realistic field-detection limit of about $5 \times 10^{-9}$ grams. The greater variance in background made definition of the tails of crosswind or vertical tracer distributions less certain with fluorescein than with ZnS.



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In contrast to the deleterious effect that the dust-ZnS combination displayed with the ZnS assay, the laboratory assessment of the fluorescein in solution was minimally affected by dust.

Although no laboratory tests were made to directly investigate the possible effects of the subjection of fluorescein to high temperatures during dispersal, Nickola[18] found that ZnS and fluorescein released from the same location gave compatible downwind field concentrations. Reduction of fluorescence due to mixture for a fraction of a second with air at 400°C caused no obvious problems in these 1964 field tests.

No corrections have been attempted for non-isokinetic sampling of fluorescein on field filters.

Rhodamine B

Use of another soluble fluorescent dye, Rhodamine B, began at Hanford in 1968.[21] This dye, dissolved in methanol, was dispersed in only six of the Hanford 67-Series experiments. The 1% rhodamine solution was dispersed to the atmosphere by means of a pair of ultrasonic nozzles. This technique, described by Dana,[22] generates particles of small diameter. No heat was supplied during the dispersal process.

Measurements made during Tests V1, V2 and V3 with Anderson cascade impactors revealed a mass median particle size of about 1 μm and a $\sigma_g$ of 3.2. Although no measurement of the specific gravity of the ultrasonicly-generated particles was made, the specific gravity of the parent powder particulate (before solution) was 1.38. This contrasts with the specific gravity of 1.53 of the fluorescein parent particulate. Assuming the 1.38 specific gravity is applicable to the 1 μm particles, and that Stokes law applies (electron micrography displayed spherical particles), the terminal velocity of the mass median rhodomine particles was 0.14 m/hr. If it is



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presumed that the density of the nebulized particles is only 38% of the parent powder (as was the case with fluorescein), the 1 μm rhodamine particle should have a Stokes fall velocity of 0.05 m/hr. In either event, the terminal velocity of the rhodamine tracer particles should be negligibly small.

Rhodamine was sampled on the same filter as was ZnS. The assessment procedure for rhodamine was essentially identical to the procedure employed for fluorescein. Since fluorescein and rhodamine were not paired in field release, no tracer discrimination was required from the fluorometer.

As with fluorescein, the detection limit for rhodamine under ideal laboratory conditions was much lower than for field exposed filters. The respective laboratory and field detection limits were approximately $5 \times 10^{-11}$ and $2 \times 10^{-8}$ grams. Again, as with fluorescein, specification of the tails of field tracer distributions was more difficult with rhodamine than with ZnS.

Also, as with fluorescein, dust collected on field samples offered no obvious assay problem with rhodamine.

No corrections for non-isokinetic flow were applied to the masses of rhodamine collected on field filters. However, the small particle size would have made such corrections minimal in any event.

To some degree with all the particulate tracers, there are opposing objectives in dispersal. On the one hand there is the desire to disperse large masses of tracer to the atmosphere so that downwind sampling problems will be minimized. On the other hand, the desire is to disperse the particulate as individual small particles and to avoid effects due to dispersal technique (as opposed to effects due to atmospheric turbulence and diffusion). The dispersal of rhodamine B as 1 μm particles tended to minimize dispersal problems and to maximize field detection problems. About 100 g of rhodamine were released



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during each test, whereas typical ZnS or fluorescein releases were from 1000 g to 3000 g.

Krypton-85

A field system for measuring atmospheric concentrations of the inert radioactive gas krypton-85 was developed and deployed in the field at Hanford in 1967. Ludwick et al.[4] and Nickola et al.[5] have described this system in reasonable detail. A data volume including time-histories of concentration at 63 field locations for eight instantaneous (puff) releases and for five continuous releases (Tests C1 to C5 of the 67-Series) has been published.[7]

Among advantages of this noble gas tracer technique are that krypton has minimal interaction with structures and vegetation, and will not react with other atmospheric constituents. And although only "continuous" releases are considered in this report, the field technique does include the capability of releasing instantaneous puffs by the simple procedure of dropping a brick on a quartz vial of the gaseous tracer.

Among disadvantages of this tracer technique are the cost of each field sampling unit and the necessity of running a signal cable from each sampler to a central signal processing station.

During the five experiments of the 67-Series prefixed with the letter "C", krypton was released from a pressurized cylinder. A minimal volume of krypton-85 had been inserted into the argon carrier in the cylinder. Release rate of the krypton was about 1 Ci/min. The rate of the krypton/carrier gas dispersal was monitored by a rotameter, and valving was manually adjusted to maintain a nearly constant rate of release.

During the six krypton-release experiments prefixed with the letter "V", the flow rate from the pressurized source



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cylinder was automatically held to a constant rate by an electronic mass flow control device. Dispersal rate during the V-tests was about 0.6 Ci/min.

Airborne krypton concentration was monitored by Geiger-Müller tubes (Model 18546) manufactured by Amperex Electronic Corporation, Hicksville, New York. These detectors are of the end window type with a window diameter of greater than 50 mm. These field detectors were calibrated by a procedure involving support of the detector inside a large meteorological balloon into which a known amount of krypton-85 had been inserted. The Geiger counters were calibrated in two modes. In the mode where the open face of the detector was exposed to the atmosphere, a krypton concentration of 1 $\mu Ci/m^3$ corresponded to a count rate of 9.7 counts/sec. In a mode where a remote control valve partially shielded the face of the tube (even when the valve was open), a concentration of 1 $\mu Ci/m^3$ resulted in a count rate of 5.5 counts/sec. (The weather-proof valves were used primarily on tower-mounted tubes where manual removal of between-experiment protective covers was impractical.)

During the prefix C experiments, a total of 63 detectors were deployed on portions of arcs S200 and S800. Three S200 towers were instrumented to elevations of 10.7 m, and three S800 towers were instrumented to elevations of 21.3 m. A series of 38.4-sec end-to-end concentration measurements was made.

During the prefix V experiments, a total of 127 detectors were deployed on portions of the U200, S800 and S1600 arcs. All ten towers on the U200 and S800 arcs were instrumented to their tops -- 32.8 m and 42.0 m at S200 and S800, respectively. The time increment for which short-period concentrations were recorded during the V-tests was 10.0 sec.



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## DESCRIPTION OF EXPERIMENTS AND DATA

The Hanford 67-Series experiments were carried out during 54 separate days. During most of the experiments, two or more tracers were released -- generally from different elevations above the same point. Zinc sulfide tracer was released on 50 occasions. Fluorescein, rhodamine B, and krypton-85 were released on 38, 6 and 9 occasions, respectively. Tracer sampling equipment was activated before tracer dispersal began and was continued for a period deemed long enough for the bulk of the tracer to pass before deactivation. (The deactivation time was based on the wind speed at 15 meters. A time period 2-1/2 times as long as necessary for uninhibited transport to the sampling arc of interest was generally allowed.)

The cataloging of the field diffusion and meteorological measurements in this volume follows (with three exceptions) the chronological sequence of experiments. Table 2 introduces the 54 experiments/103 releases of the 67-Series in the near chronological order. This table identifies the tracer release point, the type tracer, the release elevation, several pertinent meteorological measurements, and the extent of sampling during each test.

Tables 2 to 5 and Tables/Figures C-1 to C-4 are intended to be largely self-explanatory. The intent of these tables and figures is to enable a researcher to conveniently pinpoint the specific experiments in the appendices that are pertinent to his area of interest. If these tables and figures do their intended job, much of the narrative in this section can be considered of minimal importance.

Tables 3 and 4 give the frequency of releases from various elevations and show the number of times sampling was attempted at various distances. These tables also place a qualitative specification on the overall sampling results for specific locations.



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Table 5 is divided into four parts on the basis of tracer release height. These four tables give some detail on the location and quality of sampling for each field tracer release. The symbols indicating the degree of success at each sampling arc are based on slightly less severe standards than are the symbols which are associated with the quantitative summaries listed in Appendix B.

For reasons which will be pointed out later, there are many instances when it was felt that estimates should be supplied for "bad" or missing data. However, no effort has been made to change the general character of the observations merely because the observed data were unexplainable. For instance, consider field test D4. Both fluorescein and ZnS were released from the same point. Yet on three of the towers at a distance of 200 m, complete vertical distributions of ZnS were observed, but no fluorescein was detected at all.

As has been mentioned in the section describing the ZnS tracer technique, sampling of particulates on filters opens the door to non-isokinetic sampling errors. Even though corrections have been applied to the ZnS data in an attempt to compensate for this error, it is felt that the wind tunnel-determined empirical corrections do not always perform an adequate adjustment. Furthermore, no isokinetic corrections are attempted with the fluorescein or rhodamine assessments. The result can be a "roller-coaster" effect in the situation where arcs of relatively low flow rate are interspersed with those of higher flow rate. Both ZnS and (especially) fluorescein for field test U83 offer such an example. The U400 (high flow rate), S800 (low flow rate), U1200 (high), S3200 (low), U2200 (high) sequence of sampling results in normalized measured concentrations at these arcs which appear to be low, high, low, high and low, respectively. Let it be stressed that flow rate has been factored into the calculations.



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The uncertainty as to which values of concentration are most proper is disconcerting. (It is the author's opinion that inasmuch as the higher flow rates required a smaller correction, they generate more nearly correct values.) In defense of what may seem to be poor field technique, the roller coaster effect would never have been observed had the same flow rate been used at all sampling arcs -- or had a higher flow rate been used at each succeeding arc. Such flow arrangements would not necessarily have made the measured concentrations any closer to the correct values, but merely would have given results more pleasing to the eye.

Before proceeding with the description of the method of presentation of the individual field experiments, a mention of near-source wake effects seems in order. Although the ideal experiment would entail a point source release into an undisturbed ambient atmosphere, such releases are impossible. Perhaps the experiments with the least disturbance in the upwind fetch were the four prefix D experiments. Figure 4 shows the upwind fetch for these four experiments. During the C experiments, the particulate dispersal equipment shown in Figure 4 was placed on a low, flatbed trailer about 6 m in length which was parked about 4 m upwind of the source. The ZnS during Test C5 was dispersed from this trailer. The krypton during the C experiments was released from the cement pad shown in Figure 4, and thus had the trailer and associated equipment forming a lattice-like cross section of about 8 to 10 $m^2$ in the upwind fetch.

All elevated releases were undoubtedly affected to some degree by the wake induced by the 122-m tower from which release took place. This tower is a rather sturdy structure, triangular in cross section, and about 3.6 m on each side. Some idea of the appearance of this structure can be gained by examination of Figure 2.

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The near ground-level releases from the U-source (Tests U56 to U70) were subjected to perhaps the worst wake situation. First, the dispersal equipment (Figure 4) was mounted on a small trailer; secondly, the wake of the 122-m tower a few meters away no doubt added to the turbulence; and third, a small 4 m x 4 m x 3 m building stood near the base of the tower. (The bulk of the building complex shown in Figure 4 at the base of the tower was dismantled prior to the start of the 67-Series.)

## The Appendix A Diffusion Data

Appendix A gives the individual field diffusion measurements. These data form the bulk of this data volume. The 54 experiments are presented in the order given in Table 2. Dual tracer release data are presented side-by-side. Some general comments pertinent to each field experiment precede listing of the individual field measurements. The date and time of release, tracer release elevation and wind speed at release height are included in a heading preceding each arc or tower of measurements.

The body of the Appendix A tables gives AZIMUTH with respect to the source in the first column, and DISTANCE from the source in the last column. In instances where S-grid arcs (or portions of S-grid arcs combined with portions of U-grid arcs) were employed with U-source releases, the nonuniformity of the samplers with respect to these sources is reflected in these first and last columns. For example, during field test U71, release was from the U-source (Table 2). The Appendix A data for Test U71 fluorescein indicate that all sampling at the 400M arc was actually done on the U-grid inasmuch as azimuths increment evenly by 4°, and all distances are listed as 400 m. However, on the 800M arc, the samplers exposed between 61.0° and 97.0° were on the U-grid (3° increments and 800 m distance), while those exposed between 97.1° and 110.7° were



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on the S-grid (uneven azimuth increments and distances not 800 m). As mentioned earlier in description of the grid, the data from the S12800 arc are not "corrected" for the variation in distance and direction resulting from release from the U-source. The 100-meter separation of U- and S-sources is considered of minimal importance at this distance.

The second column in the Appendix A tables lists EXPOSURE. (For towers, a column specifying sampling HEIGHT precedes the EXPOSURE column.) The EXPOSURE data for particulate tracers evolves from division of the mass of tracer measured on each filter by the flow rate through the filter (Table 1). Inasmuch as no normalization to source strength is made in the EXPOSURE column, the magnitude of the individual numbers are directly related to the mass of tracer collected on each filter, and are therefore related to the confidence that can be placed in each sample. For the krypton tracer, the EXPOSURE column is the integral of concentrations measured over all the shorter time increments. Magnitude here is also related to the confidence that can be placed in an individual sample.

The EXPOSURE column has been left in digital format (as opposed to scientific notation as in the subsequent 2 columns) in order to give an analog appearance to concentration distribution across an arc (or up a tower). In most cases the shape of the crosswind (or vertical) distribution is relatively obvious with a glance at the column.

In the column headed E/Q, exposure has been normalized by dividing by the total mass emitted (or total curies in the case of the krypton emissions).

EU/Q is the exposure normalized to both unit emission and unit wind speed. The mean wind speed (U) used in this normalization is that listed in the heading immediately preceding each arc (tower) of data. It is the mean wind speed at the release height during the period of release. (In the cases

where more than one tracer was released at the same time but release periods differed, the U used in the EU/Q column resulted from measurements over the longer release period.)

In many cases, a one-character symbol precedes the azimuth column in Appendix A. These symbols indicate that something less than ideal was associated with the sample. A detailed explanation of the alphabetical symbols is given at the beginning of Appendix A. The numerical symbols were mentioned earlier in the subsection entitle "Zinc Sulfide Fluorescent Particulate 2210". It was stated that filters with visual dust nomenclature of 4 or less appeared to give no problems. However, the indicated mass of zinc sulfide on a filter was reduced when a visual dust rating of 5 or more was observed. The experiment upon which this conclusion was based was severe, however. It involved collecting tracer on a filter followed by the collection of dust. If the dust had been collected first, leaving the tracer "on top" of the dust, the degradation of the zinc sulfide assessment might not have been as severe. In any event, the observation of a 5 or greater dust loading can be associated with a reduction in indicated ZnS, but it is not necessarily so in all cases. It should be pointed out that in many cases dust nomenclature of less than 5 is indicated on the Appendix A data. These are vestiges of laboratory assessment notes made before the mentioned dust loading experiments were made, and can thus be ignored.

Since each 1.5-m sample was used in the computation of CROSSWIND INTEGRATED concentrations following each arc of data (and in other statistics to be found in Appendix B), it was deemed wiser to substitute a reasonable estimate for an obviously erroneous sample than to have an erroneous number go into the computations. These estimates are frequently merely interpolations or extrapolations of data collected on the same arc. At times it was necessary to plot areal distributions of



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tracer and to interpolate concentrations on a mid arc from arcs closer to or farther from the source than the arc in question.

In some instances, the amount or quality of data on an arc is so low that no estimations were attempted. Also, since no vertical moments or vertical crosswind sums were computed, the incentive to supply estimates for poor tower samples was not as great as it was for the poor 1.5-m samples. Thus the poorer tower measurements are frequently reported directly with an accompanying remark symbol other than "E" for "estimate".

## The Appendix B Diffusion Summaries

Appendix B summarizes the ground-level data for each of the 103 releases. Presented first is a repeat of the specific experiment remarks from Appendix A. A heading then identifies the specific tracer and gives pertinent release information.

The first column of the tabular data indicates DISTANCE FROM SOURCE. The next four columns give statistics relating to the CROSSWIND DISTRIBUTION. The first of these columns gives the location of the MEAN of the crosswind distribution. The STANDARD DEVIATION ($\sigma_y$) and COEFFICIENT of SKEWNESS and KURTOSIS for the crosswind distribution follow.

The next three columns give the AZIMUTH and the magnitude of the three largest exposures measured at each arc. E/Q is exposure normalized to source strength, and EU/Q is exposure further normalized to wind speed, U, at tracer release height. Three values of exposure are given in order to reduce the chance of considering a "sport" or somehow erroneous measurement as representative of plume centerline.

The last two columns give CROSSWIND INTEGRATED values for the source and source/wind speed-normalized EXPOSURES.

Tabulated data followed by the symbol "?" indicate some uncertainty in the data. The uncertainty may involve estimates

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in the Appendix A data. Perhaps there was some question on the performance of the laboratory assay equipment. The symbol is intended to alert a user of the data to the fact that something not completely routine went into the generation of the associated number. An examination of the remarks preceding the table or scanning of the appropriate Appendix A field data should display the reason for the symbol. Where estimates of missing data were on the tails of a distribution, or where a broad distribution made one large estimate of minimal consequence, a "?" may not have been appended in the Appendix B data. Admittedly some subjectivity went into the decision as to whether to append the symbol or not, and a second review of the data would not result in precisely the same tagging. The symbol is intended primarily as a convenience to the data user.

Appending of the symbol "X" to Appendix B data symbolizes a much more serious difficulty with the data. The data are either incomplete or invalid. For instance, the computation of a mean, $\sigma_y$, skewness, kurtosis and crosswind integrated exposure from a badly truncated distribution lacks significance. An "X" is then appended. (However, if the truncated distribution is such that there is little doubt that the plume centerline was observed, no "X" is appended in the MAXIMUM EXPOSURE columns.)

The qualification for a "clean bill of health" in Appendix B was a bit more strict than was the case in Table 5. Thus a "?" may be found in Appendix B whereas a "C", indicating no problems, may have been listed for the same data in Table 5.



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## The Appendix C Meteorological Data

Vertical profiles of temperature, wind speed and wind direction were measured on the 122-m tower at the U-source during the Hanford 67-Series. In addition, wind speed and direction were measured on a second tower -- also generally near the tracer release point.

Temperature measurements on the 122-m tower were made by Foxboro thermohms. The aspirated thermohms were exposed at elevations of 0.9, 15.2, 30.5, 45.7, 61.0, 76.2, 91.4 and 122 m (3, 50, 100, 150, 200, 250, 300 and 400 ft). During the eight prefix-V tests, an additional thermohm was exposed at an elevation of 6.1 m (20 ft). Recording was a series of points on a strip chart. About 3-1/2 minutes were required to cycle through all temperature sensors. Inasmuch as most field tests were 30 min in duration, eight or nine measurements were available to compute the mean temperature for a given elevation as presented in Table C-1 and Figure C-1 of Appendix C.

Wind speed and direction on the 122-m tower were measured by seven Aerovane anemometers mounted at elevations of 2.1, 15.2, 30.5, 45.7, 61.0, 91.4 and 122 m (7, 50, 100, 150, 200, 300 and 400 ft). The starting speed for Aerovane propellers is approximately 1 m/sec. The Aerovane is a rather large streamlined vane/anemometer assembly about 80 cm in length. The assembly has a distance constant of about 4.5 m for speed and about 10 m for direction.

The Aerovane outputs were recorded on strip charts moving at the rate of 7.6 cm/min (3 inches/min). The strip chart traces were averaged (means) by eye for 20-sec increments, and the resulting digitized data were used in computing mean speeds, mean directions, and standard deviations of wind direction for the periods of tracer release.



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For the bulk of the field tests, wind speed and direction were measured at six levels on a 25-m tower located about 25 m west of the S-source. (During Tests U84 to U92, these sensors were mounted on the tower at 106° on arc S1600.) The system for measuring and recording winds on this tower has been described by Ratcliffe and Sheen.[23] The wind speed sensors were Beckman and Whitley Model M1564 three-cup anemometers. These cups have a starting threshold of less than 0.4 m/sec and a distance constant of about 1.5 m. Circuitry was arranged to permit accumulation of an integrated wind speed for 3.5 sec, after which 1.5 sec were consumed in signal processing and recording. In each minute, 12 such recorded segments of wind speed were accumulated for each anemometer.

Wind direction transducers employed on the 25-m tower were Beckman and Whitley Model M1565 vanes. These vanes respond to winds of less than 0.4 m/sec and have a distance constant of about 1.5 m. The output signals from these lightweight vanes were smoothed by a filter having a 5-sec time constant. The filter output was sampled for 60 msec once each 5 sec, digitized and recorded. The digitized data were used for computing mean directions and standard deviations of direction, $\sigma_\theta$.

The Beckman and Whitley cups and vanes were mounted at elevations of 0.76, 1.5, 3.0, 6.1, 12.2 and 24.4 m (2.5, 5, 10, 20, 40 and 80 ft) during most of the field experiments. During Tests U 84 to U92 they were mounted at elevations of 2, 4, 8, 16, 32 and 36 m. Thus, the spacing between wind sensors on the shorter towers was closer than was the spacing between Aerovanes on the 122-m tower. Wind speeds indicated by the Beckman and Whitley cups frequently averaged slightly higher than those computed from the Aerovanes, although the shapes of the profiles in the area of common measurement were in excellent agreement. The wind speeds reported on Table C-2



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and Figure C-2 of Appendix C are based primarily on the cup measurements at the lower elevations, and on the Aerovane measurements above the measurement level of the cups.

Two sets of wind direction and wind direction standard deviation ($\sigma_\theta$) data were developed. One set is based on the Aerovane measurements, and one set follows the Beckman and Whitley vane measurements. These measurements are found in Tables C-3 and C-4 of Appendix C, and are graphed in Figures C-3 and C-4. With a few exceptions during light wind cases, these data show that agreement between Aerovane and Beckman and Whitley data is reasonably good. The agreement in mean direction profiles is rather expected. However, in view of the difference in physical characteristics of the large Aerovane and the relatively lightweight Beckman and Whitley vane, and the difference in the method of digitizing direction, the agreement in $\sigma_\theta$ profiles is more surprising.

It has been the author's experience that the orientation of a wind vane is not a simple matter. If only one vane is exposed, one <u>may</u> feel confidence in the orientation. Exposure of a second vane at an elevation differing from the first essentially always results in a difference in mean direction that can logically be explained by wind direction shear with height. However, addition of a third, a fourth, and more vanes at additional elevations seems to inevitably lead to mean direction profiles that have repetitive kinks that should not logically be there. This observation is made as a partial or likely explanation of some of the similarly-shaped wind profiles observed at times in the 67-Series. Aerovane direction profiles for the upper elevations during Tests U84, U85 and U86 are an example (Figure C-3).

The data presented on Tables C-1 to C-4 and Figures C-1 to C-4 are based on measurements made during tracer release. In the event that two or more tracers were released during the

same experiment and the periods of release did not coincide, the meteorological data apply to the longer tracer release period.

Note that on Figure C-1, which depicts vertical profiles of temperature, the vertical scale is linear. On the companion Figures C-2, C-3 and C-4, the vertical scale is logarithmic. Heights of tracer release are indicated on all these figures by the symbols F, K, R and Z for fluorescein, krypton-85, rhodamine B and zinc sulfide, respectively.

It is recognized that use of Figures C-1 to C-4 in a quantitative sense would be difficult. However, the intent of these figures is to aid in picking out features in the vertical profiles that otherwise might not be obvious. Once a characteristic of interest is observed on the analogs of Figures C-1 to C-4, absolute values can be obtained from Tables C-1 to C-4.



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TABLE 2. GENERAL GRID, SOURCE, RELEASE AND METEOROLOGICAL INFORMATION.

| TEST | GRID SOURCE | TYPE[1] & DURATION[2] OF TRACER RELEASE 1M | 2M | 26M | 56M | 111M | UBAR, M/S 1.5M | 61M | SIG θ, DEG 1.5M[3] | 61M[4] | DELTA T, F DEG 0.9 TO 30M | 15 TO 61M | SAMPLING DISTANCE FROM SOURCE, M NEAREST | FARTHEST | TOTAL TOWERS ACTIVE | TEST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D1 | S | | ZF | | | | 1.1 | 3.9 | 22 | 10 | 1.7 | 0.7 | 200 | 3200 | 20 | D1 |
| D2 | S | | ZF | | | | 1.6 | 6.6 | 10 | 5 | 6.4 | 2.0 | 200 | 3200 | 20 | D2 |
| D3 | S | | ZF | | | | 2.4 | 4.7 | 33 | 17 | 1.9 | 0.6 | 200 | 3200 | 20 | D3 |
| D4 | S | | Z16,F16 | | | | 1.2 | 4.8 | 37 | 4 | 1.3 | 0.6 | 200 | 3200 | 20 | D4 |
| | | . | . | . | . | . | | | | | | | | | | |
| C1 | S | K15 | | | | | 1.2 | 5.8 | 7 | 3 | 6.9 | 6.9 | 200 | 800 | 6 | C1 |
| C2 | S | K15 | | | | | 3.9 | M | 6 | M | -1.6 | -1.2 | 200 | 800 | 6 | C2 |
| C3 | S | K14 | | | | | 7.6 | M | 10 | M | -3.2 | -2.4 | 200 | 800 | 6 | C3 |
| C4 | S | K10 | | | | | 3.8 | M | 13 | M | -4.6 | -2.3 | 200 | 800 | 6 | C4 |
| C5 | S | K20 | Z20 | | | | 2.6 | 7.5 | 7 | 3 | 1.0 | M | 200 | 800 | 6,10 | C5 |
| | | . | . | . | . | . | | | | | | | | | | |
| U56 | U | | Z | F | | | 1.6 | 6.0 | 22 | 5 | 2.1 | 2.3 | 200 | 3200 | NONE | U56 |
| U57 | U | | Z | F | | | 1.3 | 3.4 | 9 | 4 | 5.9 | 0.7 | 400 | 3200 | NONE | U57 |
| U58 | U | | Z | F | | | 2.9 | 6.9 | 8 | 6 | 1.7 | 0.6 | 400 | 3200 | NONE | U58 |
| U59 | U | | Z | F | | | 1.8 | 3.8 | 15 | 8 | 1.3 | 0.1 | 400 | 12800 | NONE | U59 |



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TABLE 3. FREQUENCY OF TRACER RELEASE AND SAMPLING AT 1.5-M ELEVATION.

| RELEASE | | NO. TIMES GROUND-LEVEL SAMPLING ON ARC AT RADIAL DISTANCE (METERS) OF | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HT. | NO. | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 1200 | 1600 | 2200 | 3200 | 5000 | 7000 | 12800 |
| 2M | 28 | 15 | 1 | 10 | 1 | 3 | 3 | 26 | 14 | 22 | 11 | 22 | 11 | 11 | 8 |
| 26M | 46 | 19 | 1 | 35 | 1 | 3 | 3 | 46 | 40 | 46 | 29 | 40 | 24 | 24 | 17 |
| 56M | 20 | - | - | 20 | - | - | - | 20 | 13 | 20 | 11 | 20 | 19 | 19 | 14 |
| 111M | 9 | - | - | 9 | - | - | - | 9 | - | 9 | - | 9 | 9 | 9 | 9 |
| TOTAL | 103 | 34 | 2 | 74 | 2 | 6 | 6 | 103 | 67 | 97 | 51 | 91 | 63 | 63 | 48 |
| *CONTAINED- | | 56% | 100% | 62% | 0% | 50% | 67% | 71% | 76% | 70% | 76% | 75% | 56% | 51% | 54% |
| *TO PEAK- | | 94% | 100% | 84% | 100% | 100% | 100% | 91% | 100% | 96% | 96% | 98% | 90% | 96% | 85% |
| *FAILURE- | | 6% | 0% | 16% | 0% | 0% | 0% | 9% | 0% | 4% | 4% | 2% | 10% | 2% | 15% |

*CONTAINED - ENTIRE TRACER DISTRIBUTION WITHIN SAMPLING ARC
*TO PEAK - CONTAINED, OR TRUNCATED ONLY ON "TAIL" OF DISTRIBUTION
*FAILURE - TRUNCATION EXCLUDED PEAK CONCENTRATION, OR NO TRACER OBSERVED, OR SAMPLER/ASSAY FAILURE

TABLE 4. FREQUENCY OF TRACER RELEASE AND TOWER SAMPLING.

| RELEASE HEIGHT | NO. OF RELEASES | NO. TIMES VERTICAL SAMPLING ON ARC AT RADIAL DISTANCE OF 200M | 800M | 1600M | 3200M | |
|---|---|---|---|---|---|---|
| 2M | 28 | 14 | 14 | 8 | 9 | BASED ON NUMBER OF ARCS ACTIVATED FOR SAMPLING |
| 26M | 46 | 18 | 18 | 14 | 14 | |
| 56M | 20 | - | - | - | 5 | |
| 111M | 9 | - | - | - | 6 | |
| TOTAL | 103 | 32 | 32 | 22 | 33 | |
| *CONTAINED- | | 2% | 3% | 12% | 9% | BASED ON NUMBER OF TOWERS ACTIVATED FOR SAMPLING |
| *TO PEAK- | | 80% | 69% | 66% | 63% | |
| *FAILURE- | | 20% | 31% | 34% | 37% | |

*CONTAINED - ENTIRE TRACER DISTRIBUTION WITHIN SAMPLING HEIGHT
*TO PEAK - CONTAINED, OR TRUNCATED ONLY ON "TAIL" OF DISTRIBUTION
*FAILURE - TRUNCATION EXCLUDED PEAK CONCENTRATION, OR NO TRACER OBSERVED, OR SAMPLER/ASSAY FAILURE

TABLE 5A. LOCATION AND QUALITY OF SAMPLING FOR THE 28 SURFACE RELEASES OF THE 67-SERIES.

| TEST | TRACER | SAMPLING ARC AT DISTANCE (M) 200 | 300 | 400 | 500 | 600 | 700 | 800 | 1200 | 1600 | 2200 | 2300 | 3500 | 4700 | 12800 | TOWER SAMPLING AT INDICATED DISTANCE AND DIRECTION (DEG) 200 M 0 | 200 M 10 | 200 M 14 | 200 M 20 | 200 M 30 | 800 M 0 | 800 M 10 | 800 M 14 | 800 M 20 | 800 M 30 | 1600 M 0 | 1600 M 10 | 1600 M 14 | 1600 M 20 | 1600 M 30 | 3200 M 0 | 3200 M 10 | 3200 M 14 | 3200 M 20 | 3200 M 30 | TRACER | TEST |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D1 | Z | C | | | | | | C | | C | | C | | | | T | T | T | T | T | T | T | T | T | T | C | T | C | C | C | T | T | T | T | T | Z | D1 |
| D1 | F | C | | | | | | C | | C | | C | | | | T | T | T | T | T | T | T | T | T | T | C | T | T | C | C | T | T | T | T | T | F | D1 |
| D2 | Z | C | | | | | | C | | C | | C | | | | C | C | C | T | T | C | T | T | C | C | C | C | C | C | V | C | C | C | V | V | Z | D2 |
| D2 | F | C | | | | | | C | | C | | C | | | | T | C | T | V | N | C | C | C | V | N | C | C | C | V | N | C | C | C | N | N | F | D3 |
| D3 | Z | C | | | | | | C | | C | | C | | | | T | T | T | T | T | T | V | T | V | T | T | T | T | T | T | C | T | T | T | T | Z | D3 |
| D3 | F | C | | | | | | C | | C | | C | | | | T | T | T | T | T | T | V | T | V | T | T | T | T | T | T | C | T | T | T | T | F | D3 |
| D4 | Z | T | | | | | | P | | T | | T | | | | T | T | C | C | C | T | T | T | T | V | T | T | T | T | V | T | V | V | V | V | Z | D4 |
| D4 | F | T | | | | | | T | | T | | T | | | | T | T | N | N | N | T | V | N | N | N | T | P | N | N | N | T | V | N | N | N | F | D4 |
| C1 | K | C | | | | | | C | | | | | | | | C | | T | | N | C | | T | | N | | | | | | | | | | | K | C1 |
| C2 | K | C | | | | | | C | | | | | | | | N | | T | | T | N | | N | | T | | | | | | | | | | | K | C2 |
| C3 | K | T | | | | | | P | | | | | | | | T | | T | | T | N | | T | | T | | | | | | | | | | | K | C3 |
| C4 | K | T | | | | | | T | | | | | | | | N | | T | | T | N | | T | | T | | | | | | | | | | | K | C4 |
| C5 | K | C | | | | | | C | | | | | | | | T | | T | | P | C | | T | | N | | | | | | | | | | | K | C5 |
| C5 | Z | C | | | | | | C | | | | | | | | C | C | C | C | C | C | T | T | T | N | | | | | | | | | | | Z | C5 |
| U56 | Z | C | C | C | V | V | V | V | V | V | | V | | | | | | | | | | | | | | | | | | | | | | | | | |
| U57 | Z | | | C | | C | C | C | C | C | | V | | | | | | | | | | | | | | | | | | | | | | | | | |
| U58 | Z | | | C | | C | C | C | C | C | | C | | | | | | | | | | | | | | | | | | | | | | | | | |
| U59 | F | | | | | | | V | V | C | V | C | P | C | C | | | | | | | | | | | | | | | | | | | | | | |
| U60 | F | | | | | | | T | V | V | V | T | V | P | P | | | | | | | | | | | | | | | | | | | | | | |
| U61 | F | | | | | | | C | C | C | C | C | V | C | C | | | | | | | | | | | | | | | | | | | | | | |
| U62 | F | | | | | | | C | C | C | C | C | C | C | C | | | | | | | | | | | | | | | | | | | | | | |
| U63 | F | | | C | | | | C | C | C | P | C | C | C | C | | | | | | | | | | | | | | | | | | | | | | |
| U64 | F | | | C | | | | C | C | C | C | C | C | C | | | | | | | | | | | | | | | | | | | | | | | |
| U65 | F | | | V | | | | C | C | C | C | C | T | T | P | | | | | | | | | | | | | | | | | | | | | | |
| U66 | F | | | V | | | | T | T | T | T | C | P | T | | | | | | | | | | | | | | | | | | | | | | | |
| U67 | F | | | C | | | | C | C | C | C | C | P | P | | | | | | | | | | | | | | | | | | | | | | | |
| U68 | F | | | C | | | | C | C | C | C | C | C | T | V | | | | | | | | | | | | | | | | | | | | | | |
| U70 | F | | | C | | | | C | C | C | C | C | C | V | C | | | | | | | | | | | | | | | | | | | | | | |

C INDICATES HORIZONTAL (OR VERTICAL) DISTRIBUTION COMPLETELY EMBRACED BY SAMPLERS, OR SO NEARLY EMBRACED THAT EXTRAPOLATION WAS DONE WITH CONFIDENCE.

T INDICATES MAXIMUM VALUE EMBRACED, BUT TAIL(S) OF DISTRIBUTION NOT COMPLETELY EMBRACED.

P INDICATES THAT ALTHOUGH TRACER DETECTED, PEAK VALUE WAS NOT ENBRACED BY SAMPLERS.

N INDICATES SAMPLING ARC (OR TOWER) OPERATED, BUT NO TRACER OBSERVED.

V INDICATES SIGNIFICANT DOUBT ON VALIDITY OF DATA. (FOR EXAMPLE, SAMPLING/ASSAY PROBLEMS, OR MAXIMUM MEASURED CONCENTRATIONS NEAR FIELD BACKGROUND VALUES.)

TABLE 5B. LOCATION AND QUALITY OF SAMPLING FOR 46 RELEASES FROM ELEVATION OF 26 METERS DURING THE 67-SERIES.

| TEST | TRACER | SAMPLING ARC AT DISTANCE (M) 200 | 300 | 400 | 500 | 600 | 700 | 800 | 1200 | 1600 | 2200 | 2700 | 3500 | 7000 | 12000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U56 | F | V | C | C | T | T | T | T | T | V | | P | | | |
| U57 | F | | | V | | V | C | C | C | C | | P | | | |
| U58 | F | | | C | | C | C | C | C | C | | C | | | |
| U59 | Z | | | | | | | C | C | C | C | C | P | C | C |
| U60 | Z | | | | | | | T | V | V | V | C | V | T | V |
| U61 | Z | | | | | | | C | C | C | C | C | V | C | C |
| U62 | Z | | | | | | | C | C | C | C | C | C | C | C |
| U63 | Z | | | C | | | | C | C | C | P | C | C | C | C |
| U64 | Z | | | C | | | | C | C | C | C | C | C | C | |
| U65 | Z | | | V | | | | C | C | C | C | C | T | T | P |
| U66 | Z | | | V | | | | T | T | T | T | C | P | V | |
| U67 | Z | | | V | | | | C | C | C | C | C | P | T | |
| U68 | Z | | | C | | | | C | C | C | C | C | C | T | V |
| U69 | Z | | | C | | | | C | C | C | C | C | C | T | V |
| U70 | Z | | | C | | | | C | C | C | C | C | C | T | C |

| TEST | TRACER | SAMPLING ARC AT DISTANCE (M) 400 | 800 | 1200 | 1600 | 2200 | 2700 | 3500 | 7000 | 12000 |
|---|---|---|---|---|---|---|---|---|---|---|
| U71 | Z | C | C | C | C | C | C | T | T | V |
| U72 | Z | C | C | C | C | C | C | C | C | |
| U73 | Z | C | C | C | C | C | C | C | C | C |
| U74 | Z | C | C | C | C | C | C | C | C | |
| U75 | Z | C | C | C | C | C | C | T | T | N |
| U76 | Z | C | C | C | C | C | C | P | P | |
| U77 | Z | C | C | T | C | | T | T | T | V |
| U78 | Z | C | C | C | C | C | C | C | C | |
| U79 | Z | C | C | C | C | | C | C | C | C |
| U80 | Z | T | T | T | T | T | C | | | |
| U81 | Z | C | C | C | C | C | C | V | V | V |
| U82 | Z | C | C | C | C | C | C | C | V | V |
| U83 | Z | C | C | C | C | C | C | C | C | |

| TEST | TRACER | SAMPLING ARC AT DISTANCE (M) 200 | 400 | 800 | 1200 | 1600 | 2200 | 3200 | TOWER SAMPLING AT INDICATED DISTANCE AND DIRECTION (DEG) 200 M 10 | 20 | 30 | 40 | 50 | 800 M 10 | 20 | 30 | 40 | 50 | 1600 M 10 | 20 | 30 | 40 | 50 | 3200 M 10 | 20 | 30 | 40 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1 | Z | C | C | C | C | C | C | C | T | T | T | T | T | T | T | T | T | C | T | T | T | T | N | T | T | T | T | N |
| V1 | R | C | C | C | C | V | V | V | T | T | T | T | V | T | T | T | V | N | N | V | V | V | N | N | V | V | V | N |
| V2 | Z | C | C | C | C | C | C | C | N | T | T | T | T | N | P | T | T | T | N | N | T | T | T | N | N | N | T | T |
| V2 | R | C | C | C | C | C | C | C | N | T | T | T | T | N | V | T | T | T | N | N | V | T | T | N | N | N | P | T |
| V2 | K | T | | P | | P | | | N | T | P | P | T | N | N | T | T | T | | | | | | | | | | |
| V3 | Z | T | T | T | T | T | T | C | N | N | T | T | T | N | N | N | P | T | N | N | N | V | T | N | N | N | N | T |
| V3 | R | T | T | T | T | T | T | C | N | N | T | T | T | N | N | N | V | T | N | N | N | V | V | N | N | N | N | V |
| V4 | Z | C | | C | | C | | | N | N | T | T | T | N | N | T | T | T | N | N | T | T | T | | | | V | V |
| V4 | R | V | | C | | C | | | N | N | T | T | T | N | N | V | T | T | N | N | V | T | T | | | | V | V |
| V5 | Z | C | C | C | C | C | | C | T | T | T | T | N | T | T | V | N | N | C | T | T | N | N | C | C | T | T | N |
| V5 | R | C | C | C | C | C | | C | T | T | T | N | N | T | T | V | N | N | C | C | V | N | N | V | C | T | N | N |
| V5 | K | T | | T | | P | | | T | P | P | N | N | T | T | T | N | N | | | | | | | | | | |
| V6 | Z | C | C | C | C | C | | C | N | T | T | T | N | N | T | T | T | N | N | C | C | T | N | N | N | C | T | N |
| V6 | R | C | | C | C | C | | C | N | T | T | T | N | N | T | T | C | N | N | V | C | C | N | N | N | C | C | N |
| V6 | K | C | | C | | C | | | N | T | T | P | N | N | T | T | T | N | | | | | | | | | | |
| V7 | Z | C | C | C | C | C | | C | T | T | T | T | T | T | T | T | T | T | N | T | T | T | T | N | N | T | T | T |
| V7 | K | T | | | | | | | T | T | T | T | T | | | | | | | | | | | | | | | |
| V8 | Z | C | C | C | C | C | | C | N | V | V | T | T | N | N | V | T | T | N | N | N | C | T | N | N | N | N | T |



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TABLE 5C. LOCATION AND QUALITY OF SAMPLING FOR 20 RELEASES FROM ELEVATION OF 56 METERS DURING THE 67-SERIES.

| TEST | TRACER | SAMPLING ARC AT DISTANCE (M) 48 | 1 | 1 | 2 | 3 | 5 | 7 | 12 | TOWER AT 115.6 DEG ON 3200 M ARC |
|---|---|---|---|---|---|---|---|---|---|---|
| U71 | F | C | C | C | C | C | C | T | T | T |
| U72 | F | C | C | C | C | C | C | C | C | |
| U73 | F | C | C | C | C | C | C | C | C | C |
| U74 | F | N | C | C | C | C | C | C | C | |
| U75 | F | C | C | C | C | C | C | T | T | |
| U76 | F | C | C | C | C | C | C | P | C | |
| U77 | F | C | C | T | T | | T | T | T | V |
| U78 | F | C | C | C | C | C | C | C | C | |
| U79 | F | C | C | C | C | | C | C | C | C |
| U80 | F | C | C | C | C | C | C | | | |
| U81 | F | C | C | C | C | C | C | C | C | C |
| U82 | F | N | C | C | C | C | C | C | C | C |
| U83 | F | C | C | C | C | C | C | C | C | |
| U85 | F | C | C | | C | | C | C | C | C |
| U86 | F | C | C | | T | | C | C | C | C |
| U88 | F | V | V | | C | | C | C | C | C |
| U89 | F | V | C | | C | | T | T | C | N |
| U90 | F | V | V | | V | | V | V | V | V |
| U91 | F | C | C | | C | | T | T | T | T |
| U92 | F | V | V | | C | | C | C | C | T |

TABLE 5D. LOCATION AND QUALITY OF SAMPLING FOR 9 RELEASES FROM ELEVATION OF 111 METERS DURING 67-SERIES.

| TEST | TRACER | SAMPLING ARC AT DISTANCE (M) 48 | 1 | 3 | 5 | 7 | 12 | TOWER AT 115.6 DEG ON 3200 M ARC |
|---|---|---|---|---|---|---|---|---|
| U84 | Z | N | N | C | C | C | C | T |
| U85 | Z | N | C | C | C | C | C | C |
| U86 | Z | N | N | C | C | C | C | C |
| U87 | Z | C | T | T | T | T | T | V P |
| U88 | Z | N | N | N | V | V | V | V V |
| U89 | Z | N | N | C | C | V | C | N N |
| U90 | Z | N | N | C | C | T | V | N V |
| U91 | Z | N | C | T | T | V | V | V T |
| U92 | Z | N | N | N | C | C | C | C P |

C INDICATES HORIZONTAL (OR VERTICAL) DISTRIBUTION COMPLETELY EMBRACED BY SAMPLERS, OR SO NEARLY SO THAT EXTRAPOLATION WAS DONE WITH CONFIDENCE.

T INDICATES MAXIMUM VALUE EMBRACED, BUT TAILS OF DISTRIBUTION NOT COMPLETELY EMBRACED.

P INDICATES THAT ALTHOUGH TRACER DETECTED, PEAK VALUE WAS NOT EMBRACED BY SAMPLERS.

N INDICATES SAMPLING ARC (OR TOWER) OPERATED, BUT NO TRACER OBSERVED.

V INDICATES SIGNIFICANT DOUBT ON VALIDITY OF DATA.



1202662

# APPENDIX A

## DIFFUSION DATA

1202663

## MEANING OF REMARK SYMBOLS WHICH MAY PRECEDE AZIMUTH COLUMN IN APPENDIX A TABLES

| Symbol | Significance |
|---|---|
| E | ESTIMATED values. |
| H | DOA (dead on arrival), HOT. At time of filter pick-up, vacuum supply to filter was found to have failed due to dead engine. Engine hot, however, indicating vacuum missing only a short time and hence likely a valid sample. |
| W | DOA, WARM. Same as H, except engine only warm to touch. Possibly valid sample, but more doubt than with H. |
| C | DOA, COLD. Same as H, except engine cold to touch, and no fuel in tank. Sampling occurred as long as fuel lasted, but ended considerably before filter pickup. |
| P | DOA, cold, PARTIAL tank of gasoline. Same as C except sampling was likely of shorter duration since engine failed before burning all the fuel. |
| X | DOA, cold, full tank. Engine failed shortly after starting. Sample is essentially due to impaction on filter rather than to flow through filter. |
| Q | DOA, other. Engine DOA, but no other field note given. |
| I | IMPACTION sample. Engine for vacuum supply was never started. Sample is due to impaction on filter rather than flow through filter. |



1202664

| Symbol | Significance |
|---|---|
| L | Filter LOST or, in the case of krypton, Geiger-Müller tube not operating. |
| M | Filter was MISSING from holder assembly. The supporting crepe paper roll was often assayed in the case of the ZnS tracer, but it is a much less efficient sampler than the membrane filter. |
| D | Filter assembly DROPPED. Effect unknown. |
| S | Filter SLIGHTLY cracked. Effect likely minimal. |
| T | Filter TORN badly. Effect likely significant. |
| F | Apparent FINGERPRINT on filter. Time of placement and effect, if any, unknown. |
| R | For Rankin counting of ZnS, a RECOUNT of a filter with an unexpected mass assessment, but with essentially unchanged mass indicated on the repeat assessment. |
| G | GEIGER-MULLER tube noisey or questionable. |
| V | Low VOLTAGE on Geiger-Müller tube. Likely low exposures indicated. |
| B | Tracer likely extends BEYOND this last active sampler. (The symbol was not always appended to top vertical samplers even though tracer obviously extended higher.) |
| N | Samplers operated, but NO tracer observed on the arc (tower). Possibly no tracer passed samplers or possibly concentration below detection limit. |



1202665

| Symbol | Significance |
|---|---|
| Z | Any other field or assessment remark. (A check of field notes or laboratory assay notes would be needed to elaborate on each Z remark.) |
| 1, 2, 3, 4 | Visible dust on filter, but of minimal concern.* |
| 5, 6, 7, 8, 9, 0 | Increasing significance of visible dust on filters.* |

*The numerical remark symbols are a qualitative ranking of visible dust on field filters. Larger numbers indicate darker filters -- except "0" indicates the most severe loading. ZnS assay is degraded most severely by dust, although a nomenclature of less than 5 can be considered of minimal importance. See text under "Zinc Sulfide Fluorescent Particulate 2210" and "The Appendix A Diffusion Data" for further detail.



1202666

GROUND-LEVEL AND TOWER SAMPLING 200M TO 3200M. INVERSION OF 3F DEG (1M TO 15M) AT 0445; ISOTHERMAL AT 0515.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION--EXCEPT MINOR EXTRAPOLATION AT NORTH END OF 200M ARC.
VERTICAL DISTRIBUTIONS OF TRACER ON ALL 20 TOWERS; PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 58.0 | 23 | 2.074E-08 | 2.488E-06 | 200 |
| E 60.0 | 57 | 5.036E-08 | 6.043E-08 | 200 |
| E 62.0 | 171 | 1.511E-07 | 1.813E-07 | 200 |
| E 64.0 | 481 | 4.236E-07 | 5.083E-07 | 200 |
| E 66.0 | 1346 | 1.185E-06 | 1.422E-06 | 200 |
| E 68.0 | 5919 | 5.211E-06 | 6.253E-06 | 200 |
| 70.0 | 8604 | 7.575E-06 | 9.090E-06 | 200 |
| 72.0 | 17469 | 1.538E-05 | 1.845E-05 | 200 |
| 74.0 | 25559 | 2.250E-05 | 2.700E-05 | 200 |
| 76.0 | 45841 | 4.035E-05 | 4.842E-05 | 200 |
| 78.0 | 64761 | 5.701E-05 | 6.841E-05 | 200 |
| 80.0 | 87082 | 7.666E-05 | 9.199E-05 | 200 |
| 82.0 | 111834 | 9.845E-05 | 1.181E-04 | 200 |
| 84.0 | 118312 | 1.041E-04 | 1.250E-04 | 200 |
| 86.0 | 129653 | 1.141E-04 | 1.370E-04 | 200 |
| 88.0 | 175942 | 1.549E-04 | 1.859E-04 | 200 |
| 90.0 | 163676 | 1.441E-04 | 1.729E-04 | 200 |
| 92.0 | 199980 | 1.760E-04 | 2.112E-04 | 200 |
| 94.0 | 198570 | 1.748E-04 | 2.098E-04 | 200 |
| 96.0 | 232909 | 2.050E-04 | 2.460E-04 | 200 |
| 98.0 | 315008 | 2.773E-04 | 3.328E-04 | 200 |
| 100.0 | 278189 | 2.449E-04 | 2.939E-04 | 200 |
| 102.0 | 310222 | 2.731E-04 | 3.277E-04 | 200 |
| 104.0 | 216278 | 1.904E-04 | 2.285E-04 | 200 |
| 106.0 | 206583 | 1.819E-04 | 2.182E-04 | 200 |
| 108.0 | 205923 | 1.813E-04 | 2.175E-04 | 200 |
| 110.0 | 192307 | 1.693E-04 | 2.031E-04 | 200 |
| 112.0 | 123306 | 1.085E-04 | 1.303E-04 | 200 |
| 114.0 | 80900 | 7.122E-05 | 8.546E-05 | 200 |
| 116.0 | 61197 | 5.387E-05 | 6.464E-05 | 200 |
| 118.0 | 81382 | 7.164E-05 | 8.597E-05 | 200 |
| 120.0 | 65575 | 5.772E-05 | 6.927E-05 | 200 |
| 122.0 | 70825 | 6.235E-05 | 7.482E-05 | 200 |
| 124.0 | 60995 | 5.369E-05 | 6.443E-05 | 200 |
| 126.0 | 53679 | 4.725E-05 | 5.670E-05 | 200 |
| 128.0 | 18451 | 1.624E-05 | 1.949E-05 | 200 |
| 130.0 | 4122 | 3.629E-06 | 4.355E-06 | 200 |
| 132.0 | 2126 | 1.872E-06 | 2.247E-06 | 200 |
| 134.0 | 3294 | 2.900E-06 | 3.480E-06 | 200 |
| 136.0 | 1453 | 1.280E-06 | 1.536E-06 | 200 |
| 138.0 | 4586 | 4.038E-06 | 4.845E-06 | 200 |
| 140.0 | 2887 | 2.542E-06 | 3.050E-06 | 200 |
| 142.0 | 1436 | 1.265E-06 | 1.518E-06 | 200 |
| 144.0 | 296 | 2.607E-07 | 3.128E-07 | 200 |
| 146.0 | 124 | 1.096E-07 | 1.315E-07 | 200 |
| 148.0 | 3 | 2.962E-09 | 3.555E-09 | 200 |
| 150.0 | 60 | 5.332E-08 | 6.399E-08 | 200 |
| 152.0 | 43 | 3.851E-08 | 4.621E-08 | 200 |
| 154.0 | 10 | 8.887E-09 | 1.066E-08 | 200 |
| 156.0 | 0 | 0. | 0. | 200 |
| CROSSWIND INTEGRATED= | | 2.427E-02 SEC/SQ.M | 2.913E-02 1/M | |

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 58.0 | 33 | 2.933E-08 | 3.520E-08 | 200 |
| E 60.0 | 76 | 6.714E-08 | 8.057E-08 | 200 |
| E 62.0 | 235 | 2.073E-07 | 2.488E-07 | 200 |
| E 64.0 | 635 | 5.593E-07 | 6.712E-07 | 200 |
| E 66.0 | 1694 | 1.492E-06 | 1.790E-06 | 200 |
| 68.0 | 5989 | 5.272E-06 | 6.327E-06 | 200 |
| 70.0 | 11958 | 1.053E-05 | 1.263E-05 | 200 |
| 72.0 | 19063 | 1.678E-05 | 2.014E-05 | 200 |
| 74.0 | 28413 | 2.501E-05 | 3.001E-05 | 200 |
| 76.0 | 57208 | 5.036E-05 | 6.043E-05 | 200 |
| 78.0 | 80769 | 7.110E-05 | 8.532E-05 | 200 |
| 80.0 | 96476 | 8.493E-05 | 1.019E-04 | 200 |
| 82.0 | 160747 | 1.415E-04 | 1.698E-04 | 200 |
| 84.0 | 145118 | 1.277E-04 | 1.533E-04 | 200 |
| 86.0 | 140653 | 1.238E-04 | 1.486E-04 | 200 |
| 88.0 | 198704 | 1.749E-04 | 2.099E-04 | 200 |
| 90.0 | 223264 | 1.965E-04 | 2.356E-04 | 200 |
| 92.0 | 245591 | 2.162E-04 | 2.594E-04 | 200 |
| 94.0 | 290245 | 2.555E-04 | 3.066E-04 | 200 |
| 96.0 | 401982 | 3.538E-04 | 4.245E-04 | 200 |
| 98.0 | 502355 | 4.422E-04 | 5.307E-04 | 200 |
| 100.0 | 346064 | 3.046E-04 | 3.656E-04 | 200 |
| 102.0 | 390718 | 3.439E-04 | 4.127E-04 | 200 |
| 104.0 | 323736 | 2.850E-04 | 3.420E-04 | 200 |
| 106.0 | 251173 | 2.211E-04 | 2.653E-04 | 200 |
| 108.0 | 291362 | 2.565E-04 | 3.078E-04 | 200 |
| 110.0 | 267918 | 2.358E-04 | 2.830E-04 | 200 |
| 112.0 | 197587 | 1.739E-04 | 2.087E-04 | 200 |
| Z 114.0 | 111627 | 9.826E-05 | 1.179E-04 | 200 |
| Z 116.0 | 87067 | 7.664E-05 | 9.197E-05 | 200 |
| Z 118.0 | 116093 | 1.022E-04 | 1.226E-04 | 200 |
| Z 120.0 | 91533 | 8.057E-05 | 9.669E-05 | 200 |
| 122.0 | 82602 | 7.271E-05 | 8.726E-05 | 200 |
| 124.0 | 91988 | 8.098E-05 | 9.717E-05 | 200 |
| 126.0 | 93110 | 8.196E-05 | 9.836E-05 | 200 |
| 128.0 | 33648 | 2.962E-05 | 3.554E-05 | 200 |
| 130.0 | 5978 | 5.263E-06 | 6.315E-06 | 200 |
| 132.0 | 4423 | 3.894E-06 | 4.672E-06 | 200 |
| 134.0 | 2790 | 2.456E-06 | 2.946E-06 | 200 |
| 136.0 | 835 | 7.351E-07 | 8.824E-07 | 200 |
| 138.0 | 779 | 6.864E-07 | 8.237E-07 | 200 |
| 140.0 | 346 | 3.051E-07 | 3.661E-07 | 200 |
| 142.0 | 68 | 6.063E-08 | 7.275E-08 | 200 |
| 144.0 | 161 | 1.421E-07 | 1.705E-07 | 200 |
| 146.0 | 38 | 3.422E-08 | 4.107E-08 | 200 |
| 148.0 | 33 | 2.933E-08 | 3.520E-08 | 200 |
| 150.0 | 16 | 1.467E-08 | 1.760E-08 | 200 |
| 152.0 | 12 | 1.141E-08 | 1.369E-08 | 200 |
| 154.0 | 7 | 6.519E-09 | 7.823E-09 | 200 |
| 156.0 | 8 | 7.171E-09 | 8.605E-09 | 200 |
| 158.0 | 0 | 0. | 0. | 200 |
| CROSSWIND INTEGRATED= | | 3.320E-02 SEC/SQ.M | 3.984E-02 1/M | |

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 74.0 | 0 | 0. | 0. | 800 |
| 76.0 | 26 | 2.292E-08 | 2.751E-08 | 800 |
| 78.0 | 58 | 5.158E-08 | 6.190E-08 | 800 |
| 80.0 | 48 | 4.298E-08 | 5.158E-08 | 800 |
| 82.0 | 107 | 9.456E-08 | 1.135E-07 | 800 |
| 84.0 | 367 | 3.238E-07 | 3.886E-07 | 800 |
| 86.0 | 651 | 5.731E-07 | 6.877E-07 | 800 |
| 88.0 | 1490 | 1.312E-06 | 1.575E-06 | 800 |
| 90.0 | 4023 | 3.542E-06 | 4.250E-06 | 800 |
| 92.0 | 5267 | 4.636E-06 | 5.564E-06 | 800 |

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 0 | 0. | 0. | 800 |
| 78.0 | 109 | 9.601E-08 | 1.152E-07 | 800 |
| 80.0 | 35 | 3.169E-08 | 3.802E-08 | 800 |
| 82.0 | 137 | 1.212E-07 | 1.455E-07 | 800 |
| 84.0 | 270 | 2.379E-07 | 2.855E-07 | 800 |
| 86.0 | 721 | 6.352E-07 | 7.622E-07 | 800 |
| 88.0 | 1745 | 1.537E-06 | 1.844E-06 | 800 |
| 90.0 | 2677 | 2.357E-06 | 2.828E-06 | 800 |
| 92.0 | 3859 | 3.397E-06 | 4.077E-06 | 800 |



D1 1202667

| | | | | | |
|---|---|---|---|---|---|
| | 94.0 | 11771 | 1.036E-05 | 1.243E-05 | 800 |
| | 96.0 | 24828 | 2.186E-05 | 2.623E-05 | 800 |
| | 98.0 | 47087 | 4.145E-05 | 4.974E-05 | 800 |
| | 100.0 | 62667 | 5.516E-05 | 6.620E-05 | 800 |
| | 102.0 | 92977 | 8.185E-05 | 9.822E-05 | 800 |
| | 104.0 | 107443 | 9.458E-05 | 1.135E-04 | 800 |
| | 106.0 | 85962 | 7.567E-05 | 9.081E-05 | 800 |
| | 108.0 | 78732 | 6.931E-05 | 8.317E-05 | 800 |
| | 110.0 | 49789 | 4.383E-05 | 5.259E-05 | 800 |
| | 112.0 | 29750 | 2.619E-05 | 3.143E-05 | 800 |
| | 114.0 | 16644 | 1.465E-05 | 1.758E-05 | 800 |
| | 116.0 | 11998 | 1.056E-05 | 1.267E-05 | 800 |
| | 118.0 | 6025 | 5.304E-06 | 6.365E-06 | 800 |
| | 120.0 | 5039 | 4.436E-06 | 5.323E-06 | 800 |
| W | 122.0 | 4117 | 3.625E-06 | 4.350E-06 | 800 |
| W | 124.0 | 11074 | 9.749E-06 | 1.170E-05 | 800 |
| W | 126.0 | 12418 | 1.093E-05 | 1.312E-05 | 800 |
| W | 128.0 | 4710 | 4.146E-06 | 4.976E-06 | 800 |
| W | 130.0 | 403 | 3.553E-07 | 4.264E-07 | 800 |
| | 132.0 | 1510 | 1.330E-06 | 1.596E-06 | 800 |
| | 134.0 | 1403 | 1.235E-06 | 1.482E-06 | 800 |
| | 136.0 | 1471 | 1.295E-06 | 1.554E-06 | 800 |
| | 138.0 | 1057 | 9.313E-07 | 1.118E-06 | 800 |
| | 140.0 | 683 | 6.018E-07 | 7.221E-07 | 800 |
| | 142.0 | 377 | 3.324E-07 | 3.989E-07 | 800 |
| | 144.0 | 279 | 2.464E-07 | 2.957E-07 | 800 |
| | 146.0 | 19 | 1.719E-08 | 2.063E-08 | 800 |
| | 148.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 1.677E-02 SEC/SQ.M  2.013E-02 1/M

| | | | | |
|---|---|---|---|---|
| 94.0 | 12401 | 1.092E-05 | 1.310E-05 | 800 |
| 96.0 | 25313 | 2.228E-05 | 2.674E-05 | 800 |
| 98.0 | 54253 | 4.776E-05 | 5.731E-05 | 800 |
| 100.0 | 71263 | 6.273E-05 | 7.528E-05 | 800 |
| 102.0 | 107979 | 9.505E-05 | 1.141E-04 | 800 |
| 104.0 | 112298 | 9.885E-05 | 1.186E-04 | 800 |
| 106.0 | 112298 | 9.885E-05 | 1.186E-04 | 800 |
| 108.0 | 71263 | 6.273E-05 | 7.528E-05 | 800 |
| 110.0 | 58304 | 5.132E-05 | 6.159E-05 | 800 |
| 112.0 | 25313 | 2.228E-05 | 2.674E-05 | 800 |
| 114.0 | 19525 | 1.719E-05 | 2.063E-05 | 800 |
| 116.0 | 11566 | 1.018E-05 | 1.222E-05 | 800 |
| 118.0 | 6393 | 5.628E-06 | 6.754E-06 | 800 |
| 120.0 | 5742 | 5.055E-06 | 6.066E-06 | 800 |
| 122.0 | 5308 | 4.673E-06 | 5.608E-06 | 800 |
| 124.0 | 14460 | 1.273E-05 | 1.528E-05 | 800 |
| 126.0 | 12652 | 1.114E-05 | 1.336E-05 | 800 |
| 128.0 | 4548 | 4.004E-06 | 4.805E-06 | 800 |
| 130.0 | 474 | 4.176E-07 | 5.011E-07 | 800 |
| 132.0 | 1423 | 1.253E-06 | 1.504E-06 | 800 |
| 134.0 | 1208 | 1.064E-06 | 1.277E-06 | 800 |
| 136.0 | 925 | 8.149E-07 | 9.778E-07 | 800 |
| 138.0 | 1137 | 1.001E-06 | 1.201E-06 | 800 |
| 140.0 | 764 | 6.730E-07 | 8.076E-07 | 800 |
| 142.0 | 366 | 3.230E-07 | 3.876E-07 | 800 |
| 144.0 | 220 | 1.937E-07 | 2.325E-07 | 800 |
| 146.0 | 23 | 2.034E-08 | 2.440E-08 | 800 |
| 148.0 | 22 | 1.939E-08 | 2.327E-08 | 800 |

CROSSWIND INTEGRATED= 1.836E-02 SEC/SQ.M  2.204E-02 1/M

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 82.0 | 0 | 0. | 0. | 1600 |
| | 83.0 | 98 | 8.693E-08 | 1.043E-07 | 1600 |
| | 84.0 | 25 | 2.268E-08 | 2.721E-08 | 1600 |
| | 85.0 | 83 | 7.370E-08 | 8.844E-08 | 1600 |
| | 86.0 | 83 | 7.370E-08 | 8.844E-08 | 1600 |
| | 87.0 | 139 | 1.228E-07 | 1.474E-07 | 1600 |
| | 88.0 | 124 | 1.096E-07 | 1.315E-07 | 1600 |
| | 89.0 | 176 | 1.550E-07 | 1.860E-07 | 1600 |
| | 90.0 | 85 | 7.559E-08 | 9.071E-08 | 1600 |
| | 91.0 | 341 | 3.005E-07 | 3.606E-07 | 1600 |
| | 92.0 | 435 | 3.836E-07 | 4.604E-07 | 1600 |
| | 93.0 | 633 | 5.575E-07 | 6.690E-07 | 1600 |
| E | 94.0 | 880 | 7.748E-07 | 9.298E-07 | 1600 |
| E | 95.0 | 1180 | 1.039E-06 | 1.247E-06 | 1600 |
| E | 96.0 | 1524 | 1.342E-06 | 1.610E-06 | 1600 |
| E | 97.0 | 2146 | 1.890E-06 | 2.268E-06 | 1600 |
| | 98.0 | 3518 | 3.097E-06 | 3.717E-06 | 1600 |
| | 99.0 | 8404 | 7.399E-06 | 8.878E-06 | 1600 |
| | 100.0 | 14510 | 1.277E-05 | 1.533E-05 | 1600 |
| | 101.0 | 20946 | 1.844E-05 | 2.213E-05 | 1600 |
| | 102.0 | 28039 | 2.468E-05 | 2.962E-05 | 1600 |
| | 103.0 | 28816 | 2.537E-05 | 3.044E-05 | 1600 |
| | 104.0 | 24578 | 2.164E-05 | 2.596E-05 | 1600 |
| | 105.0 | 24325 | 2.141E-05 | 2.570E-05 | 1600 |
| | 106.0 | 26279 | 2.313E-05 | 2.776E-05 | 1600 |
| | 107.0 | 23659 | 2.083E-05 | 2.499E-05 | 1600 |
| | 108.0 | 21586 | 1.900E-05 | 2.280E-05 | 1600 |
| | 109.0 | 19097 | 1.681E-05 | 2.017E-05 | 1600 |
| | 110.0 | 21272 | 1.873E-05 | 2.247E-05 | 1600 |
| | 111.0 | 23563 | 2.074E-05 | 2.489E-05 | 1600 |
| | 112.0 | 20242 | 1.782E-05 | 2.138E-05 | 1600 |
| | 113.0 | 17547 | 1.545E-05 | 1.854E-05 | 1600 |
| | 114.0 | 13089 | 1.152E-05 | 1.383E-05 | 1600 |
| E | 115.0 | 9725 | 8.561E-06 | 1.027E-05 | 1600 |
| | 116.0 | 7797 | 6.864E-06 | 8.236E-06 | 1600 |
| | 117.0 | 6633 | 5.839E-06 | 7.007E-06 | 1600 |
| E | 118.0 | 6011 | 5.291E-06 | 6.350E-06 | 1600 |
| E | 119.0 | 5367 | 4.724E-06 | 5.669E-06 | 1600 |
| E | 120.0 | 4937 | 4.347E-06 | 5.216E-06 | 1600 |
| E | 121.0 | 4508 | 3.969E-06 | 4.762E-06 | 1600 |
| E | 122.0 | 3756 | 3.307E-06 | 3.969E-06 | 1600 |
| E | 123.0 | 3097 | 2.727E-06 | 3.272E-06 | 1600 |
| P | 124.0 | 2155 | 1.897E-06 | 2.277E-06 | 1600 |
| P | 125.0 | 2908 | 2.561E-06 | 3.073E-06 | 1600 |
| P | 126.0 | 4622 | 4.069E-06 | 4.882E-06 | 1600 |
| | 127.0 | 747 | 6.576E-07 | 7.892E-07 | 1600 |

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 83.0 | 105 | 9.313E-08 | 1.118E-07 | 1600 |
| | 84.0 | 70 | 6.194E-08 | 7.433E-08 | 1600 |
| | 85.0 | 35 | 3.117E-08 | 3.740E-08 | 1600 |
| | 86.0 | 70 | 6.194E-08 | 7.433E-08 | 1600 |
| | 87.0 | 143 | 1.264E-07 | 1.517E-07 | 1600 |
| | 88.0 | 200 | 1.763E-07 | 2.116E-07 | 1600 |
| | 89.0 | 174 | 1.534E-07 | 1.841E-07 | 1600 |
| | 90.0 | 245 | 2.158E-07 | 2.590E-07 | 1600 |
| | 91.0 | 287 | 2.532E-07 | 3.039E-07 | 1600 |
| | 92.0 | 280 | 2.470E-07 | 2.964E-07 | 1600 |
| | 93.0 | 436 | 3.842E-07 | 4.611E-07 | 1600 |
| C | 94.0 | 500 | 4.404E-07 | 5.284E-07 | 1600 |
| C | 95.0 | 549 | 4.840E-07 | 5.808E-07 | 1600 |
| C | 96.0 | 2030 | 1.788E-06 | 2.145E-06 | 1600 |
| E | 97.0 | 2526 | 2.224E-06 | 2.669E-06 | 1600 |
| | 98.0 | 3667 | 3.229E-06 | 3.874E-06 | 1600 |
| | 99.0 | 39361 | 3.465E-05 | 4.158E-05 | 1600 |
| | 100.0 | 61547 | 5.418E-05 | 6.502E-05 | 1600 |
| | 101.0 | 21468 | 1.890E-05 | 2.268E-05 | 1600 |
| | 102.0 | 24331 | 2.142E-05 | 2.570E-05 | 1600 |
| | 103.0 | 25046 | 2.205E-05 | 2.646E-05 | 1600 |
| | 104.0 | 22899 | 2.015E-05 | 2.419E-05 | 1600 |
| | 105.0 | 23615 | 2.079E-05 | 2.495E-05 | 1600 |
| | 106.0 | 19321 | 1.701E-05 | 2.041E-05 | 1600 |
| | 107.0 | 19321 | 1.701E-05 | 2.041E-05 | 1600 |
| | 108.0 | 18605 | 1.638E-05 | 1.965E-05 | 1600 |
| | 109.0 | 12164 | 1.071E-05 | 1.285E-05 | 1600 |
| | 110.0 | 17689 | 1.575E-05 | 1.890E-05 | 1600 |
| | 111.0 | 17412 | 1.533E-05 | 1.839E-05 | 1600 |
| | 112.0 | 16696 | 1.470E-05 | 1.764E-05 | 1600 |
| | 113.0 | 13357 | 1.176E-05 | 1.411E-05 | 1600 |
| | 114.0 | 10562 | 9.298E-06 | 1.116E-05 | 1600 |
| E | 115.0 | 7437 | 6.547E-06 | 7.857E-06 | 1600 |
| | 116.0 | 6544 | 5.761E-06 | 6.914E-06 | 1600 |
| | 117.0 | 6842 | 6.023E-06 | 7.228E-06 | 1600 |
| E | 118.0 | 6693 | 5.892E-06 | 7.071E-06 | 1600 |
| E | 119.0 | 6098 | 5.368E-06 | 6.442E-06 | 1600 |
| E | 120.0 | 5651 | 4.975E-06 | 5.970E-06 | 1600 |
| E | 121.0 | 4907 | 4.320E-06 | 5.184E-06 | 1600 |
| E | 122.0 | 4312 | 3.796E-06 | 4.556E-06 | 1600 |
| | 123.0 | 2642 | 2.326E-06 | 2.792E-06 | 1600 |
| P | 124.0 | 2824 | 2.486E-06 | 2.984E-06 | 1600 |
| | 125.0 | 3022 | 2.661E-06 | 3.193E-06 | 1600 |
| | 126.0 | 2028 | 1.785E-06 | 2.143E-06 | 1600 |
| | 127.0 | 549 | 4.840E-07 | 5.808E-07 | 1600 |



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| | | | | |
|---|---|---|---|---|
| 128.0 | 809 | 7.175E-07 | 8.549E-07 | 1600 |
| 129.0 | 839 | 7.389E-07 | 8.867E-07 | 1600 |
| 130.0 | 772 | 6.803E-07 | 8.164E-07 | 1600 |
| 131.0 | 781 | 6.879E-07 | 8.255E-07 | 1600 |
| 132.0 | 712 | 6.274E-07 | 7.529E-07 | 1600 |
| 133.0 | 897 | 7.899E-07 | 9.479E-07 | 1600 |
| 134.0 | 605 | 5.329E-07 | 6.395E-07 | 1600 |
| 135.0 | 508 | 4.479E-07 | 5.375E-07 | 1600 |
| 136.0 | 556 | 4.895E-07 | 5.873E-07 | 1600 |
| 137.0 | 472 | 4.158E-07 | 4.989E-07 | 1600 |
| 138.0 | 435 | 3.836E-07 | 4.604E-07 | 1600 |
| 139.0 | 369 | 3.250E-07 | 3.901E-07 | 1600 |
| 140.0 | 401 | 3.534E-07 | 4.241E-07 | 1600 |
| 141.0 | 392 | 3.458E-07 | 4.150E-07 | 1600 |
| 142.0 | 468 | 4.120E-07 | 4.944E-07 | 1600 |
| 143.0 | 322 | 2.835E-07 | 3.402E-07 | 1600 |
| 144.0 | 317 | 2.797E-07 | 3.356E-07 | 1600 |
| 145.0 | 143 | 1.266E-07 | 1.519E-07 | 1600 |
| 146.0 | 8 | 7.559E-09 | 9.071E-09 | 1600 |
| 147.0 | 25 | 2.268E-08 | 2.721E-08 | 1600 |
| 148.0 | 17 | 1.512E-08 | 1.814E-08 | 1600 |
| 149.0 | 8 | 7.559E-09 | 9.071E-09 | 1600 |
| 150.0 | 8 | 7.559E-09 | 9.071E-09 | 1600 |
| 151.0 | 0 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 1.031E-02 SEC/SQ.M  1.238E-02 1/M

| | | | | |
|---|---|---|---|---|
| 128.0 | 1201 | 1.058E-06 | 1.270E-06 | 1600 |
| 129.0 | 1016 | 9.124E-07 | 1.095E-06 | 1600 |
| 130.0 | 729 | 6.421E-07 | 7.705E-07 | 1600 |
| 131.0 | 941 | 8.292E-07 | 9.950E-07 | 1600 |
| 132.0 | 592 | 5.215E-07 | 6.258E-07 | 1600 |
| 133.0 | 668 | 6.005E-07 | 7.206E-07 | 1600 |
| 134.0 | 500 | 4.404E-07 | 5.284E-07 | 1600 |
| 135.0 | 592 | 5.215E-07 | 6.258E-07 | 1600 |
| 136.0 | 578 | 5.090E-07 | 6.108E-07 | 1600 |
| 137.0 | 443 | 3.905E-07 | 4.686E-07 | 1600 |
| 138.0 | 507 | 4.466E-07 | 5.359E-07 | 1600 |
| 139.0 | 507 | 4.466E-07 | 5.359E-07 | 1600 |
| 140.0 | 507 | 4.466E-07 | 5.359E-07 | 1600 |
| 141.0 | 415 | 3.655E-07 | 4.386E-07 | 1600 |
| 142.0 | 393 | 3.468E-07 | 4.162E-07 | 1600 |
| 143.0 | 365 | 3.219E-07 | 3.862E-07 | 1600 |
| 144.0 | 223 | 1.971E-07 | 2.365E-07 | 1600 |
| 145.0 | 122 | 1.077E-07 | 1.292E-07 | 1600 |
| 146.0 | 105 | 9.319E-08 | 1.118E-07 | 1600 |
| 147.0 | 21 | 1.932E-08 | 2.318E-08 | 1600 |
| 148.0 | 13 | 1.162E-08 | 1.395E-08 | 1600 |
| 149.0 | 9 | 8.296E-09 | 9.956E-09 | 1600 |
| 150.0 | 4 | 3.930E-09 | 4.716E-09 | 1600 |

CROSSWIND INTEGRATED= 1.094E-02 SEC/SQ.M  1.313E-02 1/M

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.0 | 0 | 0. | 0. | 3200 |
| 92.0 | 3 | 2.692E-09 | 3.231E-09 | 3200 |
| 93.0 | 35 | 3.141E-08 | 3.769E-08 | 3200 |
| 94.0 | 50 | 4.487E-08 | 5.384E-08 | 3200 |
| 95.0 | 149 | 1.319E-07 | 1.583E-07 | 3200 |
| 96.0 | 348 | 3.069E-07 | 3.683E-07 | 3200 |
| 97.0 | 485 | 4.272E-07 | 5.126E-07 | 3200 |
| W 98.0 | 1574 | 1.386E-06 | 1.664E-06 | 3200 |
| W 99.0 | 4157 | 3.659E-06 | 4.391E-06 | 3200 |
| W 100.0 | 5902 | 5.196E-06 | 6.235E-06 | 3200 |
| 101.0 | 7684 | 6.764E-06 | 8.117E-06 | 3200 |
| 102.0 | 6650 | 5.854E-06 | 7.025E-06 | 3200 |
| 103.0 | 5900 | 5.194E-06 | 6.233E-06 | 3200 |
| 104.0 | 4245 | 3.738E-06 | 4.485E-06 | 3200 |
| 105.0 | 3778 | 3.327E-06 | 3.992E-06 | 3200 |
| 106.0 | 2064 | 1.817E-06 | 2.181E-06 | 3200 |
| 107.0 | 3450 | 3.038E-06 | 3.645E-06 | 3200 |
| 108.0 | 2947 | 2.594E-06 | 3.113E-06 | 3200 |
| 109.0 | 2410 | 2.122E-06 | 2.547E-06 | 3200 |
| 110.0 | 2581 | 2.272E-06 | 2.727E-06 | 3200 |
| 111.0 | 2522 | 2.220E-06 | 2.664E-06 | 3200 |
| 112.0 | 2396 | 2.110E-06 | 2.532E-06 | 3200 |
| W 113.0 | 2393 | 2.107E-06 | 2.528E-06 | 3200 |
| W 114.0 | 2016 | 1.775E-06 | 2.130E-06 | 3200 |
| 115.0 | 1835 | 1.616E-06 | 1.939E-06 | 3200 |
| 116.0 | 1824 | 1.606E-06 | 1.928E-06 | 3200 |
| 117.0 | 2239 | 1.972E-06 | 2.366E-06 | 3200 |
| 118.0 | 1472 | 1.296E-06 | 1.555E-06 | 3200 |
| 119.0 | 1775 | 1.563E-06 | 1.876E-06 | 3200 |
| 120.0 | 1372 | 1.208E-06 | 1.449E-06 | 3200 |
| W 121.0 | 1103 | 9.710E-07 | 1.165E-06 | 3200 |
| W 122.0 | 900 | 7.924E-07 | 9.509E-07 | 3200 |
| W 123.0 | 974 | 8.579E-07 | 1.029E-06 | 3200 |
| 124.0 | 675 | 5.950E-07 | 7.140E-07 | 3200 |
| 125.0 | 586 | 5.160E-07 | 6.192E-07 | 3200 |
| 126.0 | 422 | 3.715E-07 | 4.458E-07 | 3200 |
| 127.0 | 305 | 2.692E-07 | 3.231E-07 | 3200 |
| 128.0 | 198 | 1.750E-07 | 2.100E-07 | 3200 |
| 129.0 | 184 | 1.624E-07 | 1.949E-07 | 3200 |
| 130.0 | 161 | 1.418E-07 | 1.701E-07 | 3200 |
| 131.0 | 167 | 1.472E-07 | 1.766E-07 | 3200 |
| 132.0 | 137 | 1.211E-07 | 1.454E-07 | 3200 |
| 133.0 | 116 | 1.023E-07 | 1.228E-07 | 3200 |
| 134.0 | 95 | 8.435E-08 | 1.012E-07 | 3200 |
| 135.0 | 127 | 1.122E-07 | 1.346E-07 | 3200 |
| 136.0 | 107 | 9.422E-08 | 1.131E-07 | 3200 |
| 137.0 | 73 | 6.461E-08 | 7.753E-08 | 3200 |
| 138.0 | 68 | 6.012E-08 | 7.215E-08 | 3200 |
| 139.0 | 54 | 4.756E-08 | 5.707E-08 | 3200 |

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 10 | 9.253E-09 | 1.110E-08 | 3200 |
| 93.0 | 25 | 2.251E-08 | 2.701E-08 | 3200 |
| 94.0 | 69 | 6.154E-08 | 7.384E-08 | 3200 |
| 95.0 | 142 | 1.255E-07 | 1.506E-07 | 3200 |
| 96.0 | 329 | 2.900E-07 | 3.480E-07 | 3200 |
| 97.0 | 489 | 4.311E-07 | 5.173E-07 | 3200 |
| 98.0 | 1478 | 1.302E-06 | 1.562E-06 | 3200 |
| 99.0 | 4036 | 3.553E-06 | 4.264E-06 | 3200 |
| 100.0 | 5651 | 4.975E-06 | 5.970E-06 | 3200 |
| 101.0 | 6952 | 6.120E-06 | 7.344E-06 | 3200 |
| 102.0 | 5853 | 5.153E-06 | 6.183E-06 | 3200 |
| 103.0 | 4843 | 4.264E-06 | 5.117E-06 | 3200 |
| 104.0 | 3767 | 3.316E-06 | 3.979E-06 | 3200 |
| 105.0 | 3565 | 3.138E-06 | 3.766E-06 | 3200 |
| 106.0 | 3497 | 3.079E-06 | 3.695E-06 | 3200 |
| 107.0 | 3228 | 2.842E-06 | 3.411E-06 | 3200 |
| 108.0 | 2959 | 2.605E-06 | 3.126E-06 | 3200 |
| 109.0 | 2959 | 2.605E-06 | 3.126E-06 | 3200 |
| 110.0 | 2488 | 2.190E-06 | 2.629E-06 | 3200 |
| 111.0 | 2151 | 1.894E-06 | 2.273E-06 | 3200 |
| 112.0 | 2353 | 2.072E-06 | 2.486E-06 | 3200 |
| 113.0 | 2017 | 1.776E-06 | 2.131E-06 | 3200 |
| 114.0 | 2084 | 1.835E-06 | 2.202E-06 | 3200 |
| 115.0 | 1591 | 1.401E-06 | 1.681E-06 | 3200 |
| 116.0 | 2353 | 2.072E-06 | 2.486E-06 | 3200 |
| 117.0 | 2421 | 2.131E-06 | 2.557E-06 | 3200 |
| 118.0 | 1658 | 1.460E-06 | 1.752E-06 | 3200 |
| 119.0 | 1635 | 1.440E-06 | 1.728E-06 | 3200 |
| 120.0 | 1568 | 1.381E-06 | 1.657E-06 | 3200 |
| 121.0 | 873 | 7.687E-07 | 9.224E-07 | 3200 |
| 122.0 | 917 | 8.072E-07 | 9.687E-07 | 3200 |
| 123.0 | 756 | 6.662E-07 | 7.994E-07 | 3200 |
| 124.0 | 479 | 4.217E-07 | 5.060E-07 | 3200 |
| 125.0 | 585 | 5.157E-07 | 6.189E-07 | 3200 |
| 126.0 | 329 | 2.900E-07 | 3.480E-07 | 3200 |
| 127.0 | 206 | 1.819E-07 | 2.183E-07 | 3200 |
| 128.0 | 171 | 1.509E-07 | 1.810E-07 | 3200 |
| 129.0 | 132 | 1.170E-07 | 1.404E-07 | 3200 |
| 130.0 | 116 | 1.029E-07 | 1.235E-07 | 3200 |
| 131.0 | 132 | 1.170E-07 | 1.404E-07 | 3200 |
| 132.0 | 107 | 9.445E-08 | 1.133E-07 | 3200 |
| 133.0 | 107 | 9.445E-08 | 1.133E-07 | 3200 |
| 134.0 | 53 | 4.743E-08 | 5.692E-08 | 3200 |
| 135.0 | 95 | 8.410E-08 | 1.009E-07 | 3200 |
| 136.0 | 70 | 6.248E-08 | 7.497E-08 | 3200 |
| 137.0 | 83 | 7.376E-08 | 8.851E-08 | 3200 |
| 138.0 | 41 | 3.615E-08 | 4.338E-08 | 3200 |
| 139.0 | 48 | 4.273E-08 | 5.127E-08 | 3200 |



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| | | | | |
|---|---|---|---|---|
| 140.0 | 50 | 4.487E-08 | 5.384E-08 | 3200 |
| 141.0 | 51 | 4.577E-08 | 5.492E-08 | 3200 |
| 142.0 | 47 | 4.218E-08 | 5.061E-08 | 3200 |
| 143.0 | 60 | 6.012E-08 | 7.215E-08 | 3200 |
| 144.0 | 58 | 5.115E-08 | 6.138E-08 | 3200 |
| 145.0 | 53 | 4.666E-08 | 5.600E-08 | 3200 |
| 146.0 | 31 | 2.782E-08 | 3.338E-08 | 3200 |
| 147.0 | 27 | 2.423E-08 | 2.907E-08 | 3200 |
| 148.0 | 35 | 3.141E-08 | 3.769E-08 | 3200 |
| 149.0 | 28 | 2.513E-08 | 3.015E-08 | 3200 |
| 150.0 | 24 | 2.154E-08 | 2.584E-08 | 3200 |
| 151.0 | 21 | 1.884E-08 | 2.261E-08 | 3200 |
| 152.0 | 18 | 1.615E-08 | 1.938E-08 | 3200 |
| 153.0 | 10 | 8.974E-09 | 1.077E-08 | 3200 |
| 154.0 | 18 | 1.615E-08 | 1.938E-08 | 3200 |
| 155.0 | 12 | 1.077E-08 | 1.292E-08 | 3200 |
| 156.0 | 10 | 8.974E-09 | 1.077E-08 | 3200 |
| 157.0 | 18 | 1.615E-08 | 1.938E-08 | 3200 |
| 158.0 | 0 | 0. | 0. | 3200 |
| 159.0 | 0 | 0. | 0. | 3200 |
| 160.0 | 4 | 3.589E-09 | 4.307E-09 | 3200 |
| 161.0 | 0 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 3.998E-03 SEC/SQ.M 4.798E-03 1/M

| | | | | |
|---|---|---|---|---|
| 140.0 | 46 | 4.085E-08 | 4.902E-08 | 3200 |
| 141.0 | 30 | 2.674E-08 | 3.209E-08 | 3200 |
| 142.0 | 45 | 3.991E-08 | 4.789E-08 | 3200 |
| 143.0 | 34 | 3.050E-08 | 3.661E-08 | 3200 |
| 144.0 | 30 | 2.674E-08 | 3.209E-08 | 3200 |
| 145.0 | 23 | 2.054E-08 | 2.464E-08 | 3200 |
| 146.0 | 30 | 2.674E-08 | 3.209E-08 | 3200 |
| 147.0 | 19 | 1.687E-08 | 2.024E-08 | 3200 |
| 148.0 | 23 | 2.087E-08 | 2.498E-08 | 3200 |
| 149.0 | 16 | 1.433E-08 | 1.720E-08 | 3200 |
| 150.0 | 23 | 2.082E-08 | 2.498E-08 | 3200 |
| 151.0 | 14 | 1.292E-08 | 1.550E-08 | 3200 |
| 152.0 | 12 | 1.123E-08 | 1.347E-08 | 3200 |
| 153.0 | 11 | 1.010E-08 | 1.212E-08 | 3200 |
| 154.0 | 7 | 6.996E-09 | 8.395E-09 | 3200 |
| 155.0 | 5 | 4.833E-09 | 5.800E-09 | 3200 |
| 156.0 | 8 | 7.842E-09 | 9.411E-09 | 3200 |
| 157.0 | 7 | 6.432E-09 | 7.718E-09 | 3200 |
| 158.0 | 11 | 1.010E-08 | 1.212E-08 | 3200 |
| 159.0 | 3 | 3.235E-09 | 3.882E-09 | 3200 |
| 160.0 | 5 | 4.739E-09 | 5.687E-09 | 3200 |
| 161.0 | 5 | 5.115E-09 | 6.139E-09 | 3200 |

CROSSWIND INTEGRATED= 3.831E-03 SEC/SQ.M 4.597E-03 1/M

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 113506 | 9.992E-05 | 1.199E-04 | 200 |
| 98.0 | .7 | 113213 | 9.966E-05 | 1.196E-04 | 200 |
| 98.0 | 1.4 | 122172 | 1.075E-04 | 1.291E-04 | 200 |
| 98.0 | 1.5 | 315008 | 2.773E-04 | 3.328E-04 | 200 |
| 98.0 | 2.7 | 328283 | 2.890E-04 | 3.468E-04 | 200 |
| 98.0 | 4.1 | 17323 | 1.525E-05 | 1.830E-05 | 200 |
| 98.0 | 5.4 | 12591 | 1.108E-05 | 1.330E-05 | 200 |
| 98.0 | 6.8 | 13584 | 1.196E-05 | 1.435E-05 | 200 |
| 98.0 | 8.1 | 18919 | 1.665E-05 | 1.998E-05 | 200 |
| 98.0 | 9.5 | 8680 | 7.641E-06 | 9.170E-06 | 200 |
| 98.0 | 10.8 | 13153 | 1.158E-05 | 1.389E-05 | 200 |
| 98.0 | 13.5 | 11216 | 9.874E-06 | 1.185E-05 | 200 |
| 98.0 | 16.2 | 7569 | 6.664E-06 | 7.996E-06 | 200 |
| 98.0 | 18.9 | 3879 | 3.415E-06 | 4.098E-06 | 200 |
| 98.0 | 21.6 | 2784 | 2.451E-06 | 2.941E-06 | 200 |
| 98.0 | 24.3 | 883 | 7.778E-07 | 9.334E-07 | 200 |
| 98.0 | 27.0 | 493 | 4.347E-07 | 5.216E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 77209 | 6.797E-05 | 8.156E-05 | 200 |
| 106.0 | .7 | 68183 | 6.002E-05 | 7.202E-05 | 200 |
| 106.0 | 1.4 | 58545 | 5.154E-05 | 6.184E-05 | 200 |
| 106.0 | 1.5 | 206583 | 1.819E-04 | 2.182E-04 | 200 |
| 106.0 | 2.7 | 193142 | 1.700E-04 | 2.040E-04 | 200 |
| 106.0 | 4.1 | 283526 | 2.496E-04 | 2.995E-04 | 200 |
| 106.0 | 5.4 | 333293 | 2.934E-04 | 3.521E-04 | 200 |
| 106.0 | 6.8 | 291189 | 2.563E-04 | 3.076E-04 | 200 |
| 106.0 | 8.1 | 373549 | 3.288E-04 | 3.946E-04 | 200 |
| 106.0 | 9.5 | 304365 | 2.679E-04 | 3.215E-04 | 200 |
| 106.0 | 10.8 | 416864 | 3.670E-04 | 4.404E-04 | 200 |
| 106.0 | 13.5 | 299851 | 2.640E-04 | 3.167E-04 | 200 |
| 106.0 | 16.2 | 196735 | 1.732E-04 | 2.078E-04 | 200 |
| 106.0 | 18.9 | 121602 | 1.070E-04 | 1.285E-04 | 200 |
| 106.0 | 21.6 | 63953 | 5.630E-05 | 6.756E-05 | 200 |
| 106.0 | 24.3 | 37555 | 3.306E-05 | 3.967E-05 | 200 |
| 106.0 | 27.0 | 21662 | 1.907E-05 | 2.288E-05 | 200 |

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 142885 | 1.256E-04 | 1.509E-04 | 200 |
| 98.0 | .7 | 142885 | 1.256E-04 | 1.509E-04 | 200 |
| 98.0 | 1.4 | 125023 | 1.101E-04 | 1.321E-04 | 200 |
| 98.0 | 1.5 | 502355 | 4.422E-04 | 5.307E-04 | 200 |
| 98.0 | 2.7 | 349785 | 3.079E-04 | 3.695E-04 | 200 |
| 98.0 | 4.1 | 5978 | 5.263E-06 | 6.315E-06 | 200 |
| 98.0 | 5.4 | 4578 | 4.031E-06 | 4.837E-06 | 200 |
| 98.0 | 6.8 | 8155 | 7.179E-06 | 8.615E-06 | 200 |
| 98.0 | 8.1 | 11188 | 9.849E-06 | 1.182E-05 | 200 |
| 98.0 | 9.5 | 2323 | 2.046E-06 | 2.455E-06 | 200 |
| 98.0 | 10.8 | 8855 | 7.795E-06 | 9.354E-06 | 200 |
| 98.0 | 13.5 | 2249 | 1.980E-06 | 2.377E-06 | 200 |
| 98.0 | 16.2 | 1731 | 1.524E-06 | 1.829E-06 | 200 |
| 98.0 | 18.9 | 1916 | 1.687E-06 | 2.024E-06 | 200 |
| 98.0 | 21.6 | 1398 | 1.231E-06 | 1.477E-06 | 200 |
| 98.0 | 24.3 | 183 | 1.617E-07 | 1.940E-07 | 200 |
| 98.0 | 27.0 | 257 | 2.269E-07 | 2.722E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 78525 | 6.912E-05 | 8.295E-05 | 200 |
| 106.0 | .7 | 97598 | 8.591E-05 | 1.031E-04 | 200 |
| 106.0 | 1.4 | 93110 | 8.196E-05 | 9.836E-05 | 200 |
| 106.0 | 1.5 | 251173 | 2.211E-04 | 2.653E-04 | 200 |
| 106.0 | 2.7 | 192005 | 1.690E-04 | 2.028E-04 | 200 |
| 106.0 | 4.1 | 334900 | 2.946E-04 | 3.536E-04 | 200 |
| 106.0 | 5.4 | 394440 | 3.472E-04 | 4.167E-04 | 200 |
| 106.0 | 6.8 | 275361 | 2.424E-04 | 2.909E-04 | 200 |
| 106.0 | 8.1 | 498634 | 4.389E-04 | 5.267E-04 | 200 |
| 106.0 | 9.5 | 290245 | 2.555E-04 | 3.066E-04 | 200 |
| 106.0 | 10.8 | 513518 | 4.520E-04 | 5.424E-04 | 200 |
| 106.0 | 13.5 | 334900 | 2.946E-04 | 3.538E-04 | 200 |
| 106.0 | 16.2 | 212100 | 1.867E-04 | 2.240E-04 | 200 |
| 106.0 | 18.9 | 138420 | 1.216E-04 | 1.462E-04 | 200 |
| 106.0 | 21.6 | 38136 | 3.357E-05 | 4.028E-05 | 200 |
| 106.0 | 24.3 | 44867 | 3.950E-05 | 4.740E-05 | 200 |
| 106.0 | 27.0 | 23925 | 2.106E-05 | 2.527E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 22466 | 1.978E-05 | 2.373E-05 | 200 |
| 114.0 | .7 | 27736 | 2.442E-05 | 2.930E-05 | 200 |
| 114.0 | 1.4 | 25794 | 2.271E-05 | 2.725E-05 | 200 |
| 114.0 | 1.5 | 80900 | 7.122E-05 | 8.546E-05 | 200 |
| 114.0 | 2.7 | 103169 | 9.082E-05 | 1.090E-04 | 200 |
| 114.0 | 4.1 | 131732 | 1.160E-04 | 1.392E-04 | 200 |
| 114.0 | 5.4 | 127040 | 1.118E-04 | 1.342E-04 | 200 |
| 114.0 | 6.8 | 154089 | 1.356E-04 | 1.628E-04 | 200 |
| 114.0 | 8.1 | 137268 | 1.208E-04 | 1.450E-04 | 200 |
| 114.0 | 9.5 | 146602 | 1.291E-04 | 1.549E-04 | 200 |
| 114.0 | 10.8 | 177116 | 1.559E-04 | 1.871E-04 | 200 |
| 114.0 | 13.5 | 154824 | 1.363E-04 | 1.635E-04 | 200 |
| 114.0 | 16.2 | 125010 | 1.100E-04 | 1.321E-04 | 200 |
| 114.0 | 18.9 | 80025 | 7.044E-05 | 8.453E-05 | 200 |
| 114.0 | 21.6 | 47989 | 4.224E-05 | 5.069E-05 | 200 |
| 114.0 | 24.3 | 30444 | 2.680E-05 | 3.216E-05 | 200 |
| 114.0 | 27.0 | 14779 | 1.301E-05 | 1.561E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 31404 | 2.765E-05 | 3.317E-05 | 200 |
| 114.0 | .7 | 29908 | 2.633E-05 | 3.159E-05 | 200 |
| 114.0 | 1.4 | 31404 | 2.765E-05 | 3.317E-05 | 200 |
| 114.0 | 1.5 | 111627 | 9.826E-05 | 1.179E-04 | 200 |
| 114.0 | 2.7 | 230706 | 2.031E-04 | 2.437E-04 | 200 |
| 114.0 | 4.1 | 120558 | 1.061E-04 | 1.274E-04 | 200 |
| 114.0 | 5.4 | 100463 | 8.844E-05 | 1.061E-04 | 200 |
| 114.0 | 6.8 | 167445 | 1.474E-04 | 1.769E-04 | 200 |
| 114.0 | 8.1 | 156282 | 1.376E-04 | 1.651E-04 | 200 |
| 114.0 | 9.5 | 156282 | 1.376E-04 | 1.651E-04 | 200 |
| 114.0 | 10.8 | 223264 | 1.965E-04 | 2.358E-04 | 200 |
| 114.0 | 13.5 | 171911 | 1.513E-04 | 1.816E-04 | 200 |
| 114.0 | 16.2 | 147351 | 1.297E-04 | 1.557E-04 | 200 |
| 114.0 | 18.9 | 89300 | 7.861E-05 | 9.433E-05 | 200 |
| 114.0 | 21.6 | 35892 | 3.160E-05 | 3.791E-05 | 200 |
| 114.0 | 24.3 | 33648 | 2.962E-05 | 3.554E-05 | 200 |
| 114.0 | 27.0 | 18689 | 1.645E-05 | 1.974E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 1130 | 9.954E-07 | 1.194E-06 | 200 |
| 122.0 | .7 | 18619 | 1.639E-05 | 1.967E-05 | 200 |
| 122.0 | 1.4 | 22513 | 1.982E-05 | 2.378E-05 | 200 |
| 122.0 | 1.5 | 70825 | 6.235E-05 | 7.482E-05 | 200 |
| 122.0 | 2.7 | 75379 | 6.636E-05 | 7.963E-05 | 200 |
| 122.0 | 4.1 | 73082 | 6.433E-05 | 7.720E-05 | 200 |
| 122.0 | 5.4 | 80831 | 7.115E-05 | 8.539E-05 | 200 |
| 122.0 | 6.8 | 70943 | 6.245E-05 | 7.494E-05 | 200 |
| 122.0 | 8.1 | 65169 | 5.737E-05 | 6.884E-05 | 200 |
| 122.0 | 9.5 | 62849 | 5.533E-05 | 6.639E-05 | 200 |
| 122.0 | 10.8 | 60954 | 5.366E-05 | 6.439E-05 | 200 |
| 122.0 | 13.5 | 65245 | 5.743E-05 | 6.892E-05 | 200 |
| 122.0 | 16.2 | 57544 | 5.066E-05 | 6.079E-05 | 200 |
| 122.0 | 18.9 | 60245 | 5.303E-05 | 6.364E-05 | 200 |
| 122.0 | 21.6 | 52023 | 4.580E-05 | 5.495E-05 | 200 |
| 122.0 | 24.3 | 32244 | 2.838E-05 | 3.406E-05 | 200 |
| 122.0 | 27.0 | 22621 | 1.991E-05 | 2.390E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 2160 | 1.902E-06 | 2.282E-06 | 200 |
| 122.0 | .7 | 21307 | 1.876E-05 | 2.251E-05 | 200 |
| 122.0 | 1.4 | 31404 | 2.765E-05 | 3.317E-05 | 200 |
| 122.0 | 1.5 | 82602 | 7.271E-05 | 8.726E-05 | 200 |
| 122.0 | 2.7 | 89300 | 7.861E-05 | 9.433E-05 | 200 |
| 122.0 | 4.1 | 58042 | 5.109E-05 | 6.131E-05 | 200 |
| 122.0 | 5.4 | 82602 | 7.271E-05 | 8.726E-05 | 200 |
| 122.0 | 6.8 | 71438 | 6.289E-05 | 7.546E-05 | 200 |
| 122.0 | 8.1 | 55809 | 4.913E-05 | 5.895E-05 | 200 |
| 122.0 | 9.5 | 71438 | 6.289E-05 | 7.546E-05 | 200 |
| 122.0 | 10.8 | 58042 | 5.109E-05 | 6.131E-05 | 200 |
| 122.0 | 13.5 | 61019 | 5.371E-05 | 6.446E-05 | 200 |
| 122.0 | 16.2 | 55809 | 4.913E-05 | 5.895E-05 | 200 |
| 122.0 | 18.9 | 66228 | 5.830E-05 | 6.996E-05 | 200 |
| 122.0 | 21.6 | 59530 | 5.240E-05 | 6.288E-05 | 200 |
| 122.0 | 24.3 | 26917 | 2.369E-05 | 2.843E-05 | 200 |
| 122.0 | 27.0 | 27665 | 2.435E-05 | 2.922E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 1076 | 9.480E-07 | 1.138E-06 | 200 |
| 130.0 | .7 | 1224 | 1.078E-06 | 1.294E-06 | 200 |
| 130.0 | 1.4 | 1039 | 9.154E-07 | 1.098E-06 | 200 |
| 130.0 | 1.5 | 4122 | 3.629E-06 | 4.355E-06 | 200 |
| 130.0 | 2.7 | 8490 | 7.474E-06 | 8.968E-06 | 200 |
| 130.0 | 4.1 | 25255 | 2.223E-05 | 2.668E-05 | 200 |
| 130.0 | 5.4 | 53614 | 4.720E-05 | 5.663E-05 | 200 |
| 130.0 | 6.8 | 105341 | 9.273E-05 | 1.113E-04 | 200 |
| 130.0 | 8.1 | 103234 | 9.088E-05 | 1.091E-04 | 200 |
| 130.0 | 9.5 | 77083 | 6.786E-05 | 8.143E-05 | 200 |
| 130.0 | 10.8 | 56666 | 4.988E-05 | 5.986E-05 | 200 |
| 130.0 | 13.5 | 16347 | 1.439E-05 | 1.727E-05 | 200 |
| 130.0 | 16.2 | 11872 | 1.045E-05 | 1.254E-05 | 200 |
| 130.0 | 18.9 | 12000 | 1.056E-05 | 1.268E-05 | 200 |
| 130.0 | 21.6 | 14451 | 1.272E-05 | 1.527E-05 | 200 |
| 130.0 | 24.3 | 10645 | 9.371E-06 | 1.125E-05 | 200 |
| 130.0 | 27.0 | 11857 | 1.044E-05 | 1.253E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 3990 | 3.512E-06 | 4.215E-06 | 200 |
| 130.0 | .7 | 3545 | 3.121E-06 | 3.745E-06 | 200 |
| 130.0 | 1.4 | 3693 | 3.252E-06 | 3.902E-06 | 200 |
| 130.0 | 1.5 | 5978 | 5.263E-06 | 6.315E-06 | 200 |
| 130.0 | 2.7 | 9088 | 8.001E-06 | 9.601E-06 | 200 |
| 130.0 | 4.1 | 25047 | 2.205E-05 | 2.646E-05 | 200 |
| 130.0 | 5.4 | 55809 | 4.913E-05 | 5.895E-05 | 200 |
| 130.0 | 6.8 | 80369 | 7.075E-05 | 8.490E-05 | 200 |
| 130.0 | 8.1 | 116093 | 1.022E-04 | 1.226E-04 | 200 |
| 130.0 | 9.5 | 55809 | 4.913E-05 | 5.895E-05 | 200 |
| 130.0 | 10.8 | 71438 | 6.289E-05 | 7.546E-05 | 200 |
| 130.0 | 13.5 | 15853 | 1.396E-05 | 1.675E-05 | 200 |
| 130.0 | 16.2 | 13520 | 1.190E-05 | 1.428E-05 | 200 |
| 130.0 | 18.9 | 11887 | 1.046E-05 | 1.256E-05 | 200 |
| 130.0 | 21.6 | 15386 | 1.354E-05 | 1.625E-05 | 200 |
| 130.0 | 24.3 | 10721 | 9.438E-06 | 1.133E-05 | 200 |
| 130.0 | 27.0 | 14453 | 1.272E-05 | 1.527E-05 | 200 |



D1 1202671

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
BOOM ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 29070 | 2.559E-05 | 3.071E-05 | 800 |
| 98.0 | .5 | 47787 | 4.207E-05 | 5.048E-05 | 800 |
| 98.0 | 1.1 | 52530 | 4.624E-05 | 5.549E-05 | 800 |
| 98.0 | 1.5 | 47087 | 4.145E-05 | 4.974E-05 | 800 |
| 98.0 | 2.1 | 49024 | 4.316E-05 | 5.179E-05 | 800 |
| 98.0 | 4.2 | 47507 | 4.182E-05 | 5.018E-05 | 800 |
| 98.0 | 6.3 | 42609 | 3.751E-05 | 4.501E-05 | 800 |
| E 98.0 | 8.4 | 35541 | 3.129E-05 | 3.754E-05 | 800 |
| 98.0 | 10.5 | 22299 | 1.963E-05 | 2.356E-05 | 800 |
| 98.0 | 12.6 | 19832 | 1.746E-05 | 2.095E-05 | 800 |
| 98.0 | 14.7 | 15034 | 1.323E-05 | 1.588E-05 | 800 |
| 98.0 | 16.8 | 11563 | 1.018E-05 | 1.221E-05 | 800 |
| 98.0 | 21.0 | 7647 | 6.732E-06 | 8.078E-06 | 800 |
| 98.0 | 25.2 | 4552 | 4.007E-06 | 4.809E-06 | 800 |
| 98.0 | 29.4 | 2491 | 2.193E-06 | 2.632E-06 | 800 |
| 98.0 | 33.6 | 1516 | 1.335E-06 | 1.601E-06 | 800 |
| 98.0 | 37.8 | 1160 | 1.021E-06 | 1.225E-06 | 800 |
| 98.0 | 42.0 | 551 | 4.855E-07 | 5.826E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 93281 | 8.211E-05 | 9.854E-05 | 800 |
| 106.0 | .5 | 87615 | 7.713E-05 | 9.255E-05 | 800 |
| 106.0 | 1.1 | 100077 | 8.810E-05 | 1.057E-04 | 800 |
| 106.0 | 1.5 | 85962 | 7.567E-05 | 9.081E-05 | 800 |
| 106.0 | 2.1 | 113929 | 1.003E-04 | 1.203E-04 | 800 |
| 106.0 | 4.2 | 117282 | 1.032E-04 | 1.239E-04 | 800 |
| 106.0 | 6.3 | 95743 | 8.428E-05 | 1.011E-04 | 800 |
| E 106.0 | 8.4 | 87069 | 7.665E-05 | 9.197E-05 | 800 |
| 106.0 | 10.5 | 82470 | 7.260E-05 | 8.712E-05 | 800 |
| 106.0 | 12.6 | 69780 | 6.143E-05 | 7.371E-05 | 800 |
| 106.0 | 14.7 | 53232 | 4.686E-05 | 5.623E-05 | 800 |
| 106.0 | 16.8 | 42233 | 3.718E-05 | 4.461E-05 | 800 |
| 106.0 | 21.0 | 22891 | 2.015E-05 | 2.418E-05 | 800 |
| 106.0 | 25.2 | 11594 | 1.021E-05 | 1.225E-05 | 800 |
| 106.0 | 29.4 | 6691 | 5.890E-06 | 7.068E-06 | 800 |
| 106.0 | 33.6 | 3799 | 3.344E-06 | 4.013E-06 | 800 |
| 106.0 | 37.8 | 1843 | 1.623E-06 | 1.947E-06 | 800 |
| 106.0 | 42.0 | 1313 | 1.156E-06 | 1.388E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 14591 | 1.284E-05 | 1.541E-05 | 800 |
| 114.0 | .5 | 13528 | 1.191E-05 | 1.429E-05 | 800 |
| 114.0 | 1.1 | 16917 | 1.489E-05 | 1.787E-05 | 800 |
| 114.0 | 2.1 | 17285 | 1.522E-05 | 1.826E-05 | 800 |
| 114.0 | 1.5 | 16644 | 1.465E-05 | 1.758E-05 | 800 |
| 114.0 | 4.2 | 19731 | 1.737E-05 | 2.084E-05 | 800 |
| 114.0 | 6.3 | 19592 | 1.725E-05 | 2.070E-05 | 800 |
| 114.0 | 8.4 | 27284 | 2.402E-05 | 2.882E-05 | 800 |
| 114.0 | 10.5 | 31826 | 2.802E-05 | 3.362E-05 | 800 |
| 114.0 | 12.6 | 29165 | 2.567E-05 | 3.081E-05 | 800 |
| 114.0 | 14.7 | 21291 | 1.874E-05 | 2.249E-05 | 800 |
| 114.0 | 16.8 | 18925 | 1.666E-05 | 1.999E-05 | 800 |
| 114.0 | 21.0 | 11297 | 9.945E-06 | 1.193E-05 | 800 |
| 114.0 | 25.2 | 9284 | 8.173E-06 | 9.807E-06 | 800 |
| 114.0 | 29.4 | 5717 | 5.033E-06 | 6.040E-06 | 800 |
| 114.0 | 33.6 | 4392 | 3.867E-06 | 4.640E-06 | 800 |
| 114.0 | 37.8 | 2021 | 1.780E-06 | 2.136E-06 | 800 |
| 114.0 | 42.0 | 927 | 8.161E-07 | 9.794E-07 | 800 |

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
BOOM ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 11724 | 1.032E-05 | 1.239E-05 | 800 |
| 98.0 | .5 | 112133 | 9.871E-05 | 1.185E-04 | 800 |
| 98.0 | 1.1 | 36889 | 3.247E-05 | 3.897E-05 | 800 |
| 98.0 | 1.5 | 54253 | 4.776E-05 | 5.731E-05 | 800 |
| 98.0 | 2.1 | 47742 | 4.203E-05 | 5.043E-05 | 800 |
| 98.0 | 4.2 | 39060 | 3.438E-05 | 4.126E-05 | 800 |
| 98.0 | 6.3 | 32548 | 2.865E-05 | 3.438E-05 | 800 |
| E 98.0 | 8.4 | 27483 | 2.419E-05 | 2.903E-05 | 800 |
| 98.0 | 10.5 | 22419 | 1.974E-05 | 2.368E-05 | 800 |
| 98.0 | 12.6 | 17365 | 1.529E-05 | 1.834E-05 | 800 |
| 98.0 | 14.7 | 14432 | 1.270E-05 | 1.525E-05 | 800 |
| 98.0 | 16.8 | 11273 | 9.924E-06 | 1.191E-05 | 800 |
| 98.0 | 21.0 | 7888 | 6.944E-06 | 8.333E-06 | 800 |
| 98.0 | 25.2 | 4127 | 3.634E-06 | 4.360E-06 | 800 |
| 98.0 | 29.4 | 3071 | 2.703E-06 | 3.244E-06 | 800 |
| 98.0 | 33.6 | 1781 | 1.568E-06 | 1.882E-06 | 800 |
| 98.0 | 37.8 | 1172 | 1.032E-06 | 1.239E-06 | 800 |
| 98.0 | 42.0 | 678 | 5.973E-07 | 7.168E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 106.0 | .3 | 97180 | 8.555E-05 | 1.027E-04 | 800 |
| 106.0 | .5 | 97180 | 8.555E-05 | 1.027E-04 | 800 |
| 106.0 | 1.1 | 105819 | 9.315E-05 | 1.118E-04 | 800 |
| 106.0 | 1.5 | 112298 | 9.885E-05 | 1.186E-04 | 800 |
| 106.0 | 2.1 | 110138 | 9.695E-05 | 1.163E-04 | 800 |
| 106.0 | 4.2 | 88541 | 7.794E-05 | 9.353E-05 | 800 |
| 106.0 | 6.3 | 90700 | 7.984E-05 | 9.581E-05 | 800 |
| F 106.0 | 8.4 | 90700 | 7.984E-05 | 9.581E-05 | 800 |
| 106.0 | 10.5 | 90700 | 7.984E-05 | 9.581E-05 | 800 |
| 106.0 | 12.6 | 82061 | 7.224E-05 | 8.669E-05 | 800 |
| 106.0 | 14.7 | 56424 | 4.967E-05 | 5.960E-05 | 800 |
| 106.0 | 16.8 | 48827 | 4.296E-05 | 5.158E-05 | 800 |
| 106.0 | 21.0 | 26760 | 2.356E-05 | 2.827E-05 | 800 |
| 106.0 | 25.2 | 13980 | 1.231E-05 | 1.477E-05 | 800 |
| 106.0 | 29.4 | 6985 | 6.150E-06 | 7.379E-06 | 800 |
| 106.0 | 33.6 | 4503 | 3.965E-06 | 4.758E-06 | 800 |
| 106.0 | 37.8 | 1457 | 1.283E-06 | 1.540E-06 | 800 |
| 106.0 | 42.0 | 1277 | 1.124E-06 | 1.349E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 13078 | 1.151E-05 | 1.382E-05 | 800 |
| 114.0 | .5 | 12852 | 1.131E-05 | 1.358E-05 | 800 |
| 114.0 | 1.1 | 14437 | 1.270E-05 | 1.525E-05 | 800 |
| 114.0 | 1.5 | 19525 | 1.719E-05 | 2.063E-05 | 800 |
| 114.0 | 2.1 | 14863 | 1.310E-05 | 1.572E-05 | 800 |
| 114.0 | 4.2 | 11498 | 1.012E-05 | 1.215E-05 | 800 |
| 114.0 | 6.3 | 12852 | 1.131E-05 | 1.358E-05 | 800 |
| 114.0 | 8.4 | 16688 | 1.469E-05 | 1.763E-05 | 800 |
| 114.0 | 10.5 | 24059 | 2.118E-05 | 2.542E-05 | 800 |
| 114.0 | 12.6 | 18945 | 1.668E-05 | 2.001E-05 | 800 |
| 114.0 | 14.7 | 17140 | 1.509E-05 | 1.811E-05 | 800 |
| 114.0 | 16.8 | 17816 | 1.568E-05 | 1.882E-05 | 800 |
| 114.0 | 21.0 | 10370 | 9.129E-06 | 1.095E-05 | 800 |
| 114.0 | 25.2 | 9468 | 8.335E-06 | 1.000E-05 | 800 |
| 114.0 | 29.4 | 6760 | 5.951E-06 | 7.141E-06 | 800 |
| 114.0 | 33.6 | 6008 | 5.289E-06 | 6.347E-06 | 800 |
| 114.0 | 37.8 | 2773 | 2.442E-06 | 2.930E-06 | 800 |
| 114.0 | 42.0 | 1209 | 1.065E-06 | 1.277E-06 | 800 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 2905 | 2.558E-06 | 3.069E-06 | 800 |
| 122.0 | .5 | 3434 | 3.023E-06 | 3.628E-06 | 800 |
| 122.0 | 1.1 | 4303 | 3.788E-06 | 4.546E-06 | 800 |
| W 122.0 | 1.5 | 4117 | 3.625E-06 | 4.350E-06 | 800 |
| 122.0 | 2.1 | 4555 | 4.010E-06 | 4.812E-06 | 800 |
| 122.0 | 4.2 | 4862 | 4.281E-06 | 5.137E-06 | 800 |
| 122.0 | 6.3 | 5786 | 5.094E-06 | 6.113E-06 | 800 |
| 122.0 | 8.4 | 4164 | 3.666E-06 | 4.399E-06 | 800 |
| 122.0 | 10.5 | 3128 | 2.754E-06 | 3.304E-06 | 800 |
| 122.0 | 12.6 | 2469 | 2.174E-06 | 2.608E-06 | 800 |
| 122.0 | 14.7 | 1461 | 1.287E-06 | 1.544E-06 | 800 |
| 122.0 | 16.8 | 1961 | 1.727E-06 | 2.072E-06 | 800 |
| 122.0 | 21.0 | 1396 | 1.229E-06 | 1.475E-06 | 800 |
| 122.0 | 25.2 | 1320 | 1.162E-06 | 1.395E-06 | 800 |
| 122.0 | 29.4 | 744 | 6.554E-07 | 7.865E-07 | 800 |
| 122.0 | 33.6 | 926 | 8.160E-07 | 9.792E-07 | 800 |
| 122.0 | 37.8 | 607 | 5.351E-07 | 6.421E-07 | 800 |
| 122.0 | 42.0 | 501 | 4.415E-07 | 5.298E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 2698 | 2.376E-06 | 2.851E-06 | 800 |
| 122.0 | .5 | 4127 | 3.634E-06 | 4.360E-06 | 800 |
| 122.0 | 1.1 | 4804 | 4.229E-06 | 5.075E-06 | 800 |
| 122.0 | 1.5 | 5308 | 4.673E-06 | 5.608E-06 | 800 |
| 122.0 | 2.1 | 5556 | 4.892E-06 | 5.870E-06 | 800 |
| 122.0 | 4.2 | 4202 | 3.700E-06 | 4.440E-06 | 800 |
| 122.0 | 6.3 | 5255 | 4.627E-06 | 5.552E-06 | 800 |
| 122.0 | 8.4 | 6609 | 5.819E-06 | 6.982E-06 | 800 |
| 122.0 | 10.5 | 3601 | 3.170E-06 | 3.804E-06 | 800 |
| 122.0 | 12.6 | 2397 | 2.111E-06 | 2.533E-06 | 800 |
| 122.0 | 14.7 | 1683 | 1.482E-06 | 1.778E-06 | 800 |
| 122.0 | 16.8 | 1615 | 1.422E-06 | 1.707E-06 | 800 |
| 122.0 | 21.0 | 1674 | 1.474E-06 | 1.769E-06 | 800 |
| 122.0 | 25.2 | 1781 | 1.568E-06 | 1.882E-06 | 800 |
| 122.0 | 29.4 | 925 | 8.149E-07 | 9.778E-07 | 800 |
| 122.0 | 33.6 | 1065 | 9.376E-07 | 1.125E-06 | 800 |
| 122.0 | 37.8 | 592 | 5.216E-07 | 6.260E-07 | 800 |
| 122.0 | 42.0 | 592 | 5.216E-07 | 6.260E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 471 | 4.152E-07 | 4.983E-07 | 800 |
| 130.0 | .5 | 240 | 2.121E-07 | 2.545E-07 | 800 |
| 130.0 | 1.1 | 699 | 6.161E-07 | 7.393E-07 | 800 |
| W 130.0 | 1.5 | 403 | 3.553E-07 | 4.264E-07 | 800 |
| 130.0 | 2.1 | 717 | 6.319E-07 | 7.582E-07 | 800 |
| 130.0 | 4.2 | 935 | 8.233E-07 | 9.880E-07 | 800 |
| 130.0 | 6.3 | 3088 | 2.718E-06 | 3.262E-06 | 800 |
| 130.0 | 8.4 | 3691 | 3.250E-06 | 3.899E-06 | 800 |
| 130.0 | 10.5 | 2811 | 2.474E-06 | 2.969E-06 | 800 |
| 130.0 | 12.6 | 2409 | 2.121E-06 | 2.545E-06 | 800 |
| 130.0 | 14.7 | 1756 | 1.546E-06 | 1.855E-06 | 800 |
| 130.0 | 16.8 | 1088 | 9.582E-07 | 1.150E-06 | 800 |
| 130.0 | 21.0 | 775 | 6.823E-07 | 8.187E-07 | 800 |
| 130.0 | 25.2 | 1015 | 8.940E-07 | 1.073E-06 | 800 |
| 130.0 | 29.4 | 908 | 7.997E-07 | 9.596E-07 | 800 |
| 130.0 | 33.6 | 707 | 6.231E-07 | 7.477E-07 | 800 |
| 130.0 | 37.8 | 480 | 4.234E-07 | 5.080E-07 | 800 |
| 130.0 | 42.0 | 306 | 2.695E-07 | 3.234E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 420 | 3.703E-07 | 4.444E-07 | 800 |
| 130.0 | .5 | 263 | 2.316E-07 | 2.779E-07 | 800 |
| 130.0 | 1.1 | 313 | 2.757E-07 | 3.309E-07 | 800 |
| 130.0 | 1.5 | 474 | 4.176E-07 | 5.011E-07 | 800 |
| 130.0 | 2.1 | 689 | 6.068E-07 | 7.281E-07 | 800 |
| 130.0 | 4.2 | 474 | 4.176E-07 | 5.011E-07 | 800 |
| 130.0 | 6.3 | 2820 | 2.483E-06 | 2.979E-06 | 800 |
| 130.0 | 8.4 | 2442 | 2.167E-06 | 2.601E-06 | 800 |
| 130.0 | 10.5 | 2068 | 1.821E-06 | 2.185E-06 | 800 |
| 130.0 | 12.6 | 1781 | 1.568E-06 | 1.882E-06 | 800 |
| 130.0 | 14.7 | 1351 | 1.190E-06 | 1.428E-06 | 800 |
| 130.0 | 16.8 | 1280 | 1.127E-06 | 1.352E-06 | 800 |
| 130.0 | 21.0 | 592 | 5.216E-07 | 6.260E-07 | 800 |
| 130.0 | 25.2 | 1065 | 9.378E-07 | 1.125E-06 | 800 |
| 130.0 | 29.4 | 732 | 6.446E-07 | 7.735E-07 | 800 |
| 130.0 | 33.6 | 646 | 5.689E-07 | 6.827E-07 | 800 |
| 130.0 | 37.8 | 786 | 6.919E-07 | 8.303E-07 | 800 |
| 130.0 | 42.0 | 431 | 3.798E-07 | 4.557E-07 | 800 |

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 3642 | 3.207E-06 | 3.848E-06 | 1600 |
| 98.0 | .4 | 3520 | 3.099E-06 | 3.719E-06 | 1600 |
| 98.0 | .8 | 4952 | 4.360E-06 | 5.232E-06 | 1600 |
| 98.0 | 1.5 | 3518 | 3.097E-06 | 3.717E-06 | 1600 |
| 98.0 | 1.6 | 4456 | 3.923E-06 | 4.708E-06 | 1600 |
| 98.0 | 3.1 | 4282 | 3.770E-06 | 4.524E-06 | 1600 |
| 98.0 | 6.2 | 3977 | 3.501E-06 | 4.202E-06 | 1600 |
| 98.0 | 9.3 | 3723 | 3.278E-06 | 3.933E-06 | 1600 |
| 98.0 | 12.4 | 2548 | 2.243E-06 | 2.692E-06 | 1600 |
| 98.0 | 15.5 | 2473 | 2.178E-06 | 2.613E-06 | 1600 |
| 98.0 | 18.6 | 1730 | 1.524E-06 | 1.828E-06 | 1600 |
| 98.0 | 21.7 | 1438 | 1.266E-06 | 1.520E-06 | 1600 |
| 98.0 | 24.8 | 853 | 7.511E-07 | 9.013E-07 | 1600 |
| 98.0 | 31.0 | 350 | 3.089E-07 | 3.706E-07 | 1600 |
| 98.0 | 37.2 | 135 | 1.194E-07 | 1.433E-07 | 1600 |
| 98.0 | 43.4 | 80 | 7.103E-08 | 8.523E-08 | 1600 |
| 98.0 | 49.6 | 46 | 4.056E-08 | 4.867E-08 | 1600 |
| 98.0 | 55.8 | 9 | 8.507E-09 | 1.021E-08 | 1600 |
| 98.0 | 62.0 | 6 | 5.551E-09 | 6.661E-09 | 1600 |

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 2973 | 2.617E-06 | 3.141E-06 | 1600 |
| 98.0 | .4 | 3221 | 2.836E-06 | 3.403E-06 | 1600 |
| 98.0 | .8 | 3370 | 2.967E-06 | 3.560E-06 | 1600 |
| 98.0 | 1.5 | 3667 | 3.229E-06 | 3.874E-06 | 1600 |
| 98.0 | 1.6 | 3320 | 2.923E-06 | 3.508E-06 | 1600 |
| 98.0 | 3.1 | 2311 | 2.035E-06 | 2.442E-06 | 1600 |
| 98.0 | 6.2 | 3816 | 3.360E-06 | 4.032E-06 | 1600 |
| 98.0 | 9.3 | 3171 | 2.792E-06 | 3.350E-06 | 1600 |
| 98.0 | 12.4 | 1733 | 1.526E-06 | 1.831E-06 | 1600 |
| 98.0 | 15.5 | 1390 | 1.224E-06 | 1.469E-06 | 1600 |
| 98.0 | 18.6 | 1225 | 1.079E-06 | 1.294E-06 | 1600 |
| 98.0 | 21.7 | 266 | 2.345E-07 | 2.815E-07 | 1600 |
| 98.0 | 24.8 | 486 | 4.279E-07 | 5.135E-07 | 1600 |
| 98.0 | 31.0 | 252 | 2.221E-07 | 2.665E-07 | 1600 |
| 98.0 | 37.2 | 160 | 1.410E-07 | 1.692E-07 | 1600 |
| 98.0 | 43.4 | 171 | 1.514E-07 | 1.816E-07 | 1600 |
| 98.0 | 49.6 | 42 | 3.743E-08 | 4.491E-08 | 1600 |
| 98.0 | 55.8 | 6 | 5.406E-09 | 6.487E-09 | 1600 |
| 98.0 | 62.0 | 0 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 19187 | 1.689E-05 | 2.027E-05 | 1600 |
| 106.0 | .4 | 23817 | 2.097E-05 | 2.516E-05 | 1600 |
| 106.0 | .8 | 22927 | 2.018E-05 | 2.422E-05 | 1600 |
| 106.0 | 1.5 | 26279 | 2.313E-05 | 2.776E-05 | 1600 |
| 106.0 | 1.6 | 26508 | 2.334E-05 | 2.800E-05 | 1600 |
| 106.0 | 3.1 | 31433 | 2.767E-05 | 3.320E-05 | 1600 |
| 106.0 | 6.2 | 20029 | 1.763E-05 | 2.116E-05 | 1600 |
| 106.0 | 9.3 | 27758 | 2.444E-05 | 2.932E-05 | 1600 |
| 106.0 | 12.4 | 25781 | 2.269E-05 | 2.723E-05 | 1600 |
| 106.0 | 15.5 | 21596 | 1.901E-05 | 2.281E-05 | 1600 |
| 106.0 | 18.6 | 21072 | 1.855E-05 | 2.226E-05 | 1600 |
| 106.0 | 21.7 | 14379 | 1.266E-05 | 1.519E-05 | 1600 |
| 106.0 | 24.8 | 11760 | 1.035E-05 | 1.242E-05 | 1600 |
| 106.0 | 31.0 | 6005 | 5.286E-06 | 6.344E-06 | 1600 |
| 106.0 | 37.2 | 3999 | 3.521E-06 | 4.225E-06 | 1600 |
| 106.0 | 43.4 | 2491 | 2.193E-06 | 2.632E-06 | 1600 |
| Z 106.0 | 49.6 | 878 | 7.735E-07 | 9.281E-07 | 1600 |
| 106.0 | 55.8 | 376 | 3.318E-07 | 3.981E-07 | 1600 |
| 106.0 | 62.0 | 222 | 1.957E-07 | 2.348E-07 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 14878 | 1.310E-05 | 1.572E-05 | 1600 |
| 106.0 | .4 | 18846 | 1.659E-05 | 1.991E-05 | 1600 |
| 106.0 | .8 | 13092 | 1.153E-05 | 1.383E-05 | 1600 |
| 106.0 | 1.5 | 19321 | 1.701E-05 | 2.041E-05 | 1600 |
| 106.0 | 1.6 | 18350 | 1.615E-05 | 1.938E-05 | 1600 |
| 106.0 | 3.1 | 21326 | 1.877E-05 | 2.253E-05 | 1600 |
| 106.0 | 6.2 | 12646 | 1.113E-05 | 1.336E-05 | 1600 |
| 106.0 | 9.3 | 22318 | 1.965E-05 | 2.358E-05 | 1600 |
| 106.0 | 12.4 | 21326 | 1.877E-05 | 2.253E-05 | 1600 |
| 106.0 | 15.5 | 14878 | 1.310E-05 | 1.572E-05 | 1600 |
| 106.0 | 18.6 | 18350 | 1.615E-05 | 1.938E-05 | 1600 |
| 106.0 | 21.7 | 12794 | 1.126E-05 | 1.352E-05 | 1600 |
| 106.0 | 24.8 | 9372 | 8.250E-06 | 9.900E-06 | 1600 |
| 106.0 | 31.0 | 4163 | 3.665E-06 | 4.398E-06 | 1600 |
| 106.0 | 37.2 | 3823 | 3.366E-06 | 4.039E-06 | 1600 |
| 106.0 | 43.4 | 2595 | 2.245E-06 | 2.742E-06 | 1600 |
| 106.0 | 49.6 | 965 | 8.500E-07 | 1.020E-06 | 1600 |
| 106.0 | 55.8 | 436 | 3.843E-07 | 4.611E-07 | 1600 |
| 106.0 | 62.0 | 316 | 2.782E-07 | 3.339E-07 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 8951 | 7.880E-06 | 9.455E-06 | 1600 |
| 114.0 | .4 | 11831 | 1.042E-05 | 1.250E-05 | 1600 |
| 114.0 | .8 | 11068 | 9.744E-06 | 1.169E-05 | 1600 |
| 114.0 | 1.5 | 13089 | 1.152E-05 | 1.383E-05 | 1600 |
| 114.0 | 1.6 | 13192 | 1.161E-05 | 1.394E-05 | 1600 |
| 114.0 | 3.1 | 11178 | 9.840E-06 | 1.181E-05 | 1600 |
| 114.0 | 6.2 | 13344 | 1.175E-05 | 1.410E-05 | 1600 |
| 114.0 | 9.3 | 13295 | 1.170E-05 | 1.404E-05 | 1600 |
| 114.0 | 12.4 | 12199 | 1.074E-05 | 1.289E-05 | 1600 |
| 114.0 | 15.5 | 10416 | 9.169E-06 | 1.100E-05 | 1600 |
| 114.0 | 18.6 | 8376 | 7.374E-06 | 8.849E-06 | 1600 |
| 114.0 | 21.7 | 6889 | 6.065E-06 | 7.278E-06 | 1600 |
| 114.0 | 24.8 | 5286 | 4.653E-06 | 5.584E-06 | 1600 |
| 114.0 | 31.0 | 3138 | 2.763E-06 | 3.315E-06 | 1600 |
| 114.0 | 37.2 | 1353 | 1.191E-06 | 1.429E-06 | 1600 |
| 114.0 | 43.4 | 969 | 8.538E-07 | 1.025E-06 | 1600 |
| 114.0 | 49.6 | 597 | 5.258E-07 | 6.309E-07 | 1600 |
| 114.0 | 55.8 | 93 | 8.223E-08 | 9.868E-08 | 1600 |
| 114.0 | 62.0 | 14 | 1.249E-08 | 1.499E-08 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 6247 | 5.499E-06 | 6.599E-06 | 1600 |
| 114.0 | .4 | 8479 | 7.464E-06 | 8.957E-06 | 1600 |
| 114.0 | .8 | 7586 | 6.678E-06 | 8.014E-06 | 1600 |
| 114.0 | 1.5 | 10562 | 9.298E-06 | 1.116E-05 | 1600 |
| 114.0 | 1.6 | 11306 | 9.953E-06 | 1.194E-05 | 1600 |
| 114.0 | 3.1 | 8776 | 7.726E-06 | 9.271E-06 | 1600 |
| 114.0 | 6.2 | 11604 | 1.022E-05 | 1.226E-05 | 1600 |
| 114.0 | 9.3 | 9521 | 8.381E-06 | 1.006E-05 | 1600 |
| 114.0 | 12.4 | 7735 | 6.809E-06 | 8.171E-06 | 1600 |
| 114.0 | 15.5 | 7437 | 6.547E-06 | 7.857E-06 | 1600 |
| 114.0 | 18.6 | 6693 | 5.892E-06 | 7.071E-06 | 1600 |
| 114.0 | 21.7 | 6842 | 6.023E-06 | 7.228E-06 | 1600 |
| 114.0 | 24.8 | 4759 | 4.189E-06 | 5.027E-06 | 1600 |
| 114.0 | 31.0 | 2923 | 2.574E-06 | 3.088E-06 | 1600 |
| 114.0 | 37.2 | 1414 | 1.245E-06 | 1.494E-06 | 1600 |
| 114.0 | 43.4 | 989 | 8.708E-07 | 1.045E-06 | 1600 |
| 114.0 | 49.6 | 422 | 3.716E-07 | 4.461E-07 | 1600 |
| 114.0 | 55.8 | 169 | 1.493E-07 | 1.792E-07 | 1600 |
| 114.0 | 62.0 | 108 | 9.523E-08 | 1.143E-07 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 142 | 1.250E-07 | 1.500E-07 | 1600 |
| 122.0 | .4 | 394 | 3.472E-07 | 4.167E-07 | 1600 |
| 122.0 | .8 | 562 | 4.951E-07 | 5.942E-07 | 1600 |
| E 122.0 | 1.5 | 3756 | 3.307E-06 | 3.969E-06 | 1600 |
| 122.0 | 1.6 | 5628 | 4.955E-06 | 5.946E-06 | 1600 |
| 122.0 | 3.1 | 3643 | 3.207E-06 | 3.848E-06 | 1600 |
| 122.0 | 6.2 | 5618 | 4.946E-06 | 5.936E-06 | 1600 |
| 122.0 | 9.3 | 4932 | 4.342E-06 | 5.210E-06 | 1600 |
| 122.0 | 12.4 | 3753 | 3.304E-06 | 3.965E-06 | 1600 |
| 122.0 | 15.5 | 2506 | 2.207E-06 | 2.648E-06 | 1600 |
| 122.0 | 18.6 | 1308 | 1.152E-06 | 1.382E-06 | 1600 |
| 122.0 | 21.7 | 1417 | 1.248E-06 | 1.498E-06 | 1600 |
| 122.0 | 24.8 | 1323 | 1.165E-06 | 1.398E-06 | 1600 |
| 122.0 | 31.0 | 368 | 3.243E-07 | 3.892E-07 | 1600 |
| 122.0 | 37.2 | 570 | 5.019E-07 | 6.023E-07 | 1600 |
| 122.0 | 43.4 | 215 | 1.894E-07 | 2.273E-07 | 1600 |
| 122.0 | 49.6 | 98 | 8.691E-08 | 1.043E-07 | 1600 |
| 122.0 | 55.8 | 48 | 4.253E-08 | 5.104E-08 | 1600 |
| 122.0 | 62.0 | 15 | 1.388E-08 | 1.665E-08 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 284 | 2.506E-07 | 3.009E-07 | 1600 |
| 122.0 | .4 | 284 | 2.506E-07 | 3.009E-07 | 1600 |
| 122.0 | .8 | 532 | 4.691E-07 | 5.629E-07 | 1600 |
| E 122.0 | 1.5 | 4312 | 3.796E-06 | 4.556E-06 | 1600 |
| 122.0 | 1.6 | 4362 | 3.840E-06 | 4.608E-06 | 1600 |
| 122.0 | 3.1 | 2477 | 2.181E-06 | 2.617E-06 | 1600 |
| 122.0 | 6.2 | 3465 | 3.491E-06 | 4.189E-06 | 1600 |
| 122.0 | 9.3 | 4015 | 3.534E-06 | 4.241E-06 | 1600 |
| 122.0 | 12.4 | 1584 | 1.395E-06 | 1.674E-06 | 1600 |
| 122.0 | 15.5 | 1886 | 1.661E-06 | 1.993E-06 | 1600 |
| 122.0 | 18.6 | 705 | 6.213E-07 | 7.455E-07 | 1600 |
| 122.0 | 21.7 | 941 | 8.292E-07 | 9.951E-07 | 1600 |
| 122.0 | 24.8 | 753 | 6.629E-07 | 7.955E-07 | 1600 |
| 122.0 | 31.0 | 287 | 2.533E-07 | 3.039E-07 | 1600 |
| 122.0 | 37.2 | 330 | 2.907E-07 | 3.488E-07 | 1600 |
| 122.0 | 43.4 | 216 | 1.909E-07 | 2.291E-07 | 1600 |
| 122.0 | 49.6 | 119 | 1.056E-07 | 1.268E-07 | 1600 |
| 122.0 | 55.8 | 68 | 5.988E-08 | 7.186E-08 | 1600 |
| 122.0 | 62.0 | 23 | 2.058E-08 | 2.470E-08 | 1600 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 601 | 5.298E-07 | 6.358E-07 | 1600 |
| 130.0 | .4 | 865 | 7.620E-07 | 9.144E-07 | 1600 |
| 130.0 | .8 | 1182 | 1.041E-06 | 1.250E-06 | 1600 |
| 130.0 | 1.5 | 772 | 6.803E-07 | 8.164E-07 | 1600 |
| 130.0 | 1.6 | 725 | 6.387E-07 | 7.665E-07 | 1600 |
| 130.0 | 3.1 | 794 | 6.992E-07 | 8.391E-07 | 1600 |
| 130.0 | 6.2 | 959 | 8.442E-07 | 1.013E-06 | 1600 |
| 130.0 | 9.3 | 842 | 7.414E-07 | 8.897E-07 | 1600 |
| 130.0 | 12.4 | 778 | 6.850E-07 | 8.220E-07 | 1600 |
| 130.0 | 15.5 | 764 | 6.729E-07 | 8.075E-07 | 1600 |
| 130.0 | 18.6 | 701 | 6.171E-07 | 7.406E-07 | 1600 |
| 130.0 | 21.7 | 660 | 5.813E-07 | 6.975E-07 | 1600 |
| 130.0 | 24.8 | 313 | 2.756E-07 | 3.307E-07 | 1600 |
| 130.0 | 31.0 | 228 | 2.008E-07 | 2.409E-07 | 1600 |
| 130.0 | 37.2 | 125 | 1.104E-07 | 1.324E-07 | 1600 |
| 130.0 | 43.4 | 122 | 1.080E-07 | 1.296E-07 | 1600 |
| 130.0 | 49.6 | 82 | 7.242E-08 | 8.691E-08 | 1600 |
| 130.0 | 55.8 | 43 | 3.828E-08 | 4.594E-08 | 1600 |
| 130.0 | 62.0 | 6 | 5.551E-09 | 6.661E-09 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 231 | 2.034E-07 | 2.440E-07 | 1600 |
| 130.0 | .4 | 535 | 4.716E-07 | 5.659E-07 | 1600 |
| 130.0 | .8 | 578 | 5.090E-07 | 6.108E-07 | 1600 |
| 130.0 | 1.5 | 729 | 6.421E-07 | 7.705E-07 | 1600 |
| 130.0 | 1.6 | 493 | 4.342E-07 | 5.210E-07 | 1600 |
| 130.0 | 3.1 | 823 | 7.253E-07 | 8.703E-07 | 1600 |
| 130.0 | 6.2 | 847 | 7.460E-07 | 8.953E-07 | 1600 |
| 130.0 | 9.3 | 571 | 5.028E-07 | 6.033E-07 | 1600 |
| 130.0 | 12.4 | 606 | 5.340E-07 | 6.408E-07 | 1600 |
| 130.0 | 15.5 | 556 | 4.903E-07 | 5.884E-07 | 1600 |
| 130.0 | 18.6 | 450 | 3.967E-07 | 4.761E-07 | 1600 |
| 130.0 | 21.7 | 599 | 5.277E-07 | 6.333E-07 | 1600 |
| 130.0 | 24.8 | 323 | 2.844E-07 | 3.413E-07 | 1600 |
| 130.0 | 31.0 | 280 | 2.470E-07 | 2.964E-07 | 1600 |
| 130.0 | 37.2 | 105 | 9.315E-08 | 1.118E-07 | 1600 |
| 130.0 | 43.4 | 91 | 8.068E-08 | 9.681E-08 | 1600 |
| 130.0 | 49.6 | 38 | 3.368E-08 | 4.042E-08 | 1600 |
| 130.0 | 55.8 | 29 | 2.558E-08 | 3.069E-08 | 1600 |
| 130.0 | 62.0 | 12 | 1.102E-08 | 1.322E-08 | 1600 |

OWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 1580 | 1.391E-06 | 1.669E-06 | 3200 |
| 98.0 | .4 | 1731 | 1.525E-06 | 1.830E-06 | 3200 |
| 98.0 | .8 | 1510 | 1.330E-06 | 1.596E-06 | 3200 |
| W 98.0 | 1.5 | 1574 | 1.386E-06 | 1.664E-06 | 3200 |
| 98.0 | 1.6 | 1288 | 1.134E-06 | 1.361E-06 | 3200 |
| 98.0 | 3.1 | 1310 | 1.154E-06 | 1.385E-06 | 3200 |
| 98.0 | 6.2 | 1355 | 1.193E-06 | 1.432E-06 | 3200 |
| 98.0 | 9.3 | 1333 | 1.174E-06 | 1.409E-06 | 3200 |
| 98.0 | 12.4 | 1302 | 1.147E-06 | 1.376E-06 | 3200 |
| 98.0 | 15.5 | 1255 | 1.105E-06 | 1.326E-06 | 3200 |
| 98.0 | 18.6 | 1048 | 9.230E-07 | 1.108E-06 | 3200 |
| 98.0 | 21.7 | 959 | 8.443E-07 | 1.013E-06 | 3200 |
| 98.0 | 24.8 | 817 | 7.195E-07 | 8.634E-07 | 3200 |
| 98.0 | 31.0 | 719 | 6.331E-07 | 7.597E-07 | 3200 |
| 98.0 | 37.2 | 639 | 5.629E-07 | 6.755E-07 | 3200 |
| 98.0 | 43.4 | 565 | 4.976E-07 | 5.972E-07 | 3200 |
| 98.0 | 49.6 | 418 | 3.687E-07 | 4.425E-07 | 3200 |
| 98.0 | 55.8 | 336 | 2.961E-07 | 3.554E-07 | 3200 |
| 98.0 | 62.0 | 238 | 2.099E-07 | 2.519E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 2204 | 1.941E-06 | 2.329E-06 | 3200 |
| 106.0 | .4 | 2342 | 2.062E-06 | 2.475E-06 | 3200 |
| 106.0 | .8 | 2215 | 1.950E-06 | 2.340E-06 | 3200 |
| 106.0 | 1.5 | 2064 | 1.817E-06 | 2.181E-06 | 3200 |
| 106.0 | 1.6 | 1215 | 1.070E-06 | 1.284E-06 | 3200 |
| 106.0 | 3.1 | 1964 | 1.729E-06 | 2.075E-06 | 3200 |
| 106.0 | 6.2 | 2671 | 2.352E-06 | 2.822E-06 | 3200 |
| 106.0 | 9.3 | 3524 | 3.102E-06 | 3.723E-06 | 3200 |
| 106.0 | 12.4 | 3827 | 3.369E-06 | 4.043E-06 | 3200 |
| 106.0 | 15.5 | 3811 | 3.355E-06 | 4.026E-06 | 3200 |
| 106.0 | 18.6 | 3370 | 2.967E-06 | 3.561E-06 | 3200 |
| E 106.0 | 21.7 | 2780 | 2.447E-06 | 2.937E-06 | 3200 |
| E 106.0 | 24.8 | 2594 | 21284E-06 | 2.741E-06 | 3200 |
| E 106.0 | 31.0 | 2316 | 2.039E-06 | 2.447E-06 | 3200 |
| E 106.0 | 37.2 | 1946 | 1.713E-06 | 2.056E-06 | 3200 |
| 106.0 | 43.4 | 1849 | 1.628E-06 | 1.954E-06 | 3200 |
| 106.0 | 49.6 | 1845 | 1.624E-06 | 1.949E-06 | 3200 |
| 106.0 | 55.8 | 1838 | 1.619E-06 | 1.942E-06 | 3200 |
| 106.0 | 62.0 | 61 | 5.384E-08 | 6.461E-08 | 3200 |

TOWER DATA FOLLOW....

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 1126 | 9.915E-07 | 1.190E-06 | 3200 |
| 98.0 | .4 | 1126 | 9.915E-07 | 1.190E-06 | 3200 |
| 98.0 | .8 | 844 | 7.432E-07 | 8.919E-07 | 3200 |
| 98.0 | 1.5 | 1478 | 1.302E-06 | 1.562E-06 | 3200 |
| 98.0 | 1.6 | 1055 | 9.294E-07 | 1.115E-06 | 3200 |
| 98.0 | 3.1 | 1232 | 1.085E-06 | 1.302E-06 | 3200 |
| 98.0 | 6.2 | 1267 | 1.116E-06 | 1.339E-06 | 3200 |
| 98.0 | 9.3 | 1161 | 1.023E-06 | 1.227E-06 | 3200 |
| 98.0 | 12.4 | 1126 | 9.915E-07 | 1.190E-06 | 3200 |
| 98.0 | 15.5 | 1002 | 8.824E-07 | 1.059E-06 | 3200 |
| 98.0 | 18.6 | 874 | 7.696E-07 | 9.235E-07 | 3200 |
| 98.0 | 21.7 | 714 | 6.285E-07 | 7.542E-07 | 3200 |
| 98.0 | 24.8 | 714 | 6.285E-07 | 7.542E-07 | 3200 |
| 98.0 | 31.0 | 714 | 6.285E-07 | 7.542E-07 | 3200 |
| 98.0 | 37.2 | 393 | 3.464E-07 | 4.157E-07 | 3200 |
| 98.0 | 43.4 | 393 | 3.464E-07 | 4.157E-07 | 3200 |
| 98.0 | 49.6 | 382 | 3.370E-07 | 4.044E-07 | 3200 |
| 98.0 | 55.8 | 286 | 2.524E-07 | 3.029E-07 | 3200 |
| 98.0 | 62.0 | 190 | 1.678E-07 | 2.013E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 2148 | 1.891E-06 | 2.270E-06 | 3200 |
| 106.0 | .4 | 2007 | 1.767E-06 | 2.121E-06 | 3200 |
| 106.0 | .8 | 2360 | 2.079E-06 | 2.493E-06 | 3200 |
| 106.0 | 1.5 | 3497 | 3.079E-06 | 3.695E-06 | 3200 |
| 106.0 | 1.6 | 2430 | 2.140E-06 | 2.568E-06 | 3200 |
| 106.0 | 3.1 | 2430 | 2.140E-06 | 2.568E-06 | 3200 |
| 106.0 | 6.2 | 2606 | 2.295E-06 | 2.754E-06 | 3200 |
| 106.0 | 9.3 | 2959 | 2.605E-06 | 3.126E-06 | 3200 |
| 106.0 | 12.4 | 3206 | 2.822E-06 | 3.387E-06 | 3200 |
| 106.0 | 15.5 | 3100 | 2.729E-06 | 3.275E-06 | 3200 |
| 106.0 | 18.6 | 2747 | 2.419E-06 | 2.903E-06 | 3200 |
| E 106.0 | 21.7 | 2571 | 2.264E-06 | 2.717E-06 | 3200 |
| E 106.0 | 24.8 | 2395 | 2.109E-06 | 2.530E-06 | 3200 |
| E 106.0 | 31.0 | 2113 | 1.860E-06 | 2.232E-06 | 3200 |
| E 106.0 | 37.2 | 1866 | 1.643E-06 | 1.972E-06 | 3200 |
| 106.0 | 43.4 | 1584 | 1.395E-06 | 1.674E-06 | 3200 |
| 106.0 | 49.6 | 1725 | 1.519E-06 | 1.823E-06 | 3200 |
| 106.0 | 55.8 | 1655 | 1.457E-06 | 1.748E-06 | 3200 |
| 106.0 | 62.0 | 58 | 5.115E-08 | 6.139E-08 | 3200 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 2123 | 1.869E-06 | 2.243E-06 | 3200 |
| 114.0 | .4 | 2012 | 1.771E-06 | 2.126E-06 | 3200 |
| 114.0 | .8 | 1791 | 1.577E-06 | 1.892E-06 | 3200 |
| W 114.0 | 1.5 | 2016 | 1.775E-06 | 2.130E-06 | 3200 |
| E 114.0 | 1.6 | 1829 | 1.611E-06 | 1.933E-06 | 3200 |
| E 114.0 | 3.1 | 1855 | 1.633E-06 | 1.960E-06 | 3200 |
| E 114.0 | 6.2 | 1786 | 1.573E-06 | 1.887E-06 | 3200 |
| 114.0 | 9.3 | 1753 | 1.543E-06 | 1.852E-06 | 3200 |
| 114.0 | 12.4 | 2115 | 1.862E-06 | 2.235E-06 | 3200 |
| 114.0 | 15.5 | 1673 | 1.473E-06 | 1.768E-06 | 3200 |
| 114.0 | 18.6 | 1477 | 1.301E-06 | 1.561E-06 | 3200 |
| 114.0 | 21.7 | 1386 | 1.220E-06 | 1.465E-06 | 3200 |
| 114.0 | 24.8 | 1303 | 1.146E-06 | 1.377E-06 | 3200 |
| 114.0 | 31.0 | 1148 | 1.011E-06 | 1.213E-06 | 3200 |
| 114.0 | 37.2 | 1156 | 1.018E-06 | 1.222E-06 | 3200 |
| 114.0 | 43.4 | 1202 | 1.059E-06 | 1.271E-06 | 3200 |
| 114.0 | 49.6 | 1274 | 1.122E-06 | 1.346E-06 | 3200 |
| 114.0 | 55.8 | 1407 | 1.239E-06 | 1.487E-06 | 3200 |
| 114.0 | 62.0 | 1491 | 1.313E-06 | 1.575E-06 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 1760 | 1.550E-06 | 1.860E-06 | 3200 |
| 114.0 | .4 | 1760 | 1.550E-06 | 1.860E-06 | 3200 |
| 114.0 | .8 | 1619 | 1.426E-06 | 1.711E-06 | 3200 |
| 114.0 | 1.5 | 2084 | 1.835E-06 | 2.202E-06 | 3200 |
| E 114.0 | 1.6 | 1690 | 1.488E-06 | 1.786E-06 | 3200 |
| E 114.0 | 3.1 | 1619 | 1.426E-06 | 1.711E-06 | 3200 |
| E 114.0 | 6.2 | 1514 | 1.333E-06 | 1.599E-06 | 3200 |
| 114.0 | 9.3 | 1302 | 1.147E-06 | 1.376E-06 | 3200 |
| 114.0 | 12.4 | 1373 | 1.209E-06 | 1.450E-06 | 3200 |
| 114.0 | 15.5 | 1408 | 1.240E-06 | 1.488E-06 | 3200 |
| 114.0 | 18.6 | 2092 | 1.842E-06 | 2.210E-06 | 3200 |
| 114.0 | 21.7 | 1835 | 1.616E-06 | 1.939E-06 | 3200 |
| 114.0 | 24.8 | 1857 | 1.635E-06 | 1.962E-06 | 3200 |
| 114.0 | 31.0 | 1686 | 1.484E-06 | 1.781E-06 | 3200 |
| 114.0 | 37.2 | 895 | 7.884E-07 | 9.461E-07 | 3200 |
| 114.0 | 43.4 | 1002 | 8.824E-07 | 1.059E-06 | 3200 |
| 114.0 | 49.6 | 981 | 8.636E-07 | 1.036E-06 | 3200 |
| 114.0 | 55.8 | 1087 | 9.576E-07 | 1.149E-06 | 3200 |
| 114.0 | 62.0 | 1280 | 1.127E-06 | 1.352E-06 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 987 | 8.696E-07 | 1.043E-06 | 3200 |
| 122.0 | .4 | 1004 | 8.839E-07 | 1.061E-06 | 3200 |
| 122.0 | .8 | 928 | 8.175E-07 | 9.810E-07 | 3200 |
| W 122.0 | 1.5 | 900 | 7.924E-07 | 9.509E-07 | 3200 |
| 122.0 | 1.6 | 901 | 7.933E-07 | 9.519E-07 | 3200 |
| 122.0 | 3.1 | 990 | 8.722E-07 | 1.047E-06 | 3200 |
| 122.0 | 6.2 | 1122 | 9.880E-07 | 1.186E-06 | 3200 |
| 122.0 | 9.3 | 1127 | 9.922E-07 | 1.191E-06 | 3200 |
| 122.0 | 12.4 | 833 | 7.333E-07 | 8.799E-07 | 3200 |
| 122.0 | 15.5 | 574 | 5.059E-07 | 6.071E-07 | 3200 |
| 122.0 | 18.6 | 415 | 3.658E-07 | 4.389E-07 | 3200 |
| 122.0 | 21.7 | 444 | 3.916E-07 | 4.699E-07 | 3200 |
| 122.0 | 24.8 | 387 | 3.410E-07 | 4.092E-07 | 3200 |
| 122.0 | 31.0 | 433 | 3.818E-07 | 4.582E-07 | 3200 |
| 122.0 | 37.2 | 368 | 3.247E-07 | 3.896E-07 | 3200 |
| 122.0 | 43.4 | 321 | 2.831E-07 | 3.397E-07 | 3200 |
| 122.0 | 49.6 | 306 | 2.700E-07 | 3.240E-07 | 3200 |
| 122.0 | 55.8 | 366 | 3.222E-07 | 3.867E-07 | 3200 |
| 122.0 | 62.0 | 442 | 3.894E-07 | 4.673E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 831 | 7.320E-07 | 8.784E-07 | 3200 |
| 122.0 | .4 | 831 | 7.320E-07 | 8.784E-07 | 3200 |
| 122.0 | .8 | 756 | 6.661E-07 | 7.994E-07 | 3200 |
| 122.0 | 1.5 | 916 | 8.072E-07 | 9.686E-07 | 3200 |
| 122.0 | 1.6 | 746 | 6.567E-07 | 7.881E-07 | 3200 |
| 122.0 | 3.1 | 906 | 7.978E-07 | 9.573E-07 | 3200 |
| 122.0 | 6.2 | 788 | 6.943E-07 | 8.332E-07 | 3200 |
| 122.0 | 9.3 | 906 | 7.978E-07 | 9.573E-07 | 3200 |
| 122.0 | 12.4 | 596 | 5.251E-07 | 6.301E-07 | 3200 |
| 122.0 | 15.5 | 446 | 3.934E-07 | 4.721E-07 | 3200 |
| 122.0 | 18.6 | 340 | 2.994E-07 | 3.593E-07 | 3200 |
| 122.0 | 21.7 | 372 | 3.276E-07 | 3.931E-07 | 3200 |
| 122.0 | 24.8 | 273 | 2.411E-07 | 2.893E-07 | 3200 |
| 122.0 | 31.0 | 267 | 2.355E-07 | 2.826E-07 | 3200 |
| 122.0 | 37.2 | 318 | 2.806E-07 | 3.367E-07 | 3200 |
| 122.0 | 43.4 | 283 | 2.496E-07 | 2.995E-07 | 3200 |
| 122.0 | 49.6 | 286 | 2.524E-07 | 3.029E-07 | 3200 |
| 122.0 | 55.8 | 273 | 2.411E-07 | 2.893E-07 | 3200 |
| 122.0 | 62.0 | 277 | 2.439E-07 | 2.927E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 198 | 1.750E-07 | 2.100E-07 | 3200 |
| 130.0 | .4 | 142 | 1.256E-07 | 1.508E-07 | 3200 |
| 130.0 | .8 | 155 | 1.373E-07 | 1.648E-07 | 3200 |
| 130.0 | 1.5 | 161 | 1.418E-07 | 1.701E-07 | 3200 |
| 130.0 | 1.6 | 206 | 1.822E-07 | 2.186E-07 | 3200 |
| 130.0 | 3.1 | 250 | 2.208E-07 | 2.649E-07 | 3200 |
| 130.0 | 6.2 | 228 | 2.008E-07 | 2.410E-07 | 3200 |
| 130.0 | 9.3 | 194 | 1.709E-07 | 2.051E-07 | 3200 |
| 130.0 | 12.4 | 223 | 1.966E-07 | 2.359E-07 | 3200 |
| 130.0 | 15.5 | 229 | 2.017E-07 | 2.420E-07 | 3200 |
| 130.0 | 18.6 | 199 | 1.752E-07 | 2.102E-07 | 3200 |
| E 130.0 | 21.7 | 176 | 1.550E-07 | 1.860E-07 | 3200 |
| E 130.0 | 24.8 | 166 | 1.468E-07 | 1.762E-07 | 3200 |
| E 130.0 | 31.0 | 157 | 1.387E-07 | 1.664E-07 | 3200 |
| E 130.0 | 37.2 | 148 | 1.305E-07 | 1.566E-07 | 3200 |
| 130.0 | 43.4 | 141 | 1.248E-07 | 1.498E-07 | 3200 |
| 130.0 | 49.6 | 153 | 1.354E-07 | 1.625E-07 | 3200 |
| 130.0 | 55.8 | 162 | 1.428E-07 | 1.713E-07 | 3200 |
| 130.0 | 62.0 | 131 | 1.155E-07 | 1.386E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 171 | 1.508E-07 | 1.810E-07 | 3200 |
| 130.0 | .4 | 190 | 1.676E-07 | 2.013E-07 | 3200 |
| 130.0 | .8 | 145 | 1.283E-07 | 1.539E-07 | 3200 |
| 130.0 | 1.5 | 116 | 1.029E-07 | 1.234E-07 | 3200 |
| 130.0 | 1.6 | 116 | 1.029E-07 | 1.234E-07 | 3200 |
| 130.0 | 3.1 | 193 | 1.706E-07 | 2.047E-07 | 3200 |
| 130.0 | 6.2 | 203 | 1.790E-07 | 2.148E-07 | 3200 |
| 130.0 | 9.3 | 164 | 1.452E-07 | 1.742E-07 | 3200 |
| 130.0 | 12.4 | 158 | 1.395E-07 | 1.675E-07 | 3200 |
| 130.0 | 15.5 | 158 | 1.395E-07 | 1.675E-07 | 3200 |
| 130.0 | 18.6 | 120 | 1.057E-07 | 1.268E-07 | 3200 |
| E 130.0 | 21.7 | 116 | 1.029E-07 | 1.234E-07 | 3200 |
| E 130.0 | 24.8 | 116 | 1.029E-07 | 1.234E-07 | 3200 |
| E 130.0 | 31.0 | 113 | 1.001E-07 | 1.201E-07 | 3200 |
| E 130.0 | 37.2 | 113 | 1.001E-07 | 1.201E-07 | 3200 |
| 130.0 | 43.4 | 100 | 8.877E-08 | 1.065E-07 | 3200 |
| 130.0 | 49.6 | 113 | 1.001E-07 | 1.201E-07 | 3200 |
| 130.0 | 55.8 | 110 | 9.723E-08 | 1.167E-07 | 3200 |
| 130.0 | 62.0 | 110 | 9.723E-08 | 1.167E-07 | 3200 |

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D1

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS CONTAIN CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. VERTICAL DISTRIBUTION OF TRACER ON MOST TOWERS. CONCENTRATIONS FALL TO BACKGROUND BELOW TOPS OF MOST TOWERS. STRONG INVERSION THROUGH THE ENTIRE DEPTH OF THE 122M TOWER. STRONG RESERVATIONS ON "Q" FOR BOTH TRACERS. DATA FROM THE LABORATORY ASSESSMENT FOR FLUORESCEIN WAS LOST. HOWEVER, RESULTS FROM THAT ASSESMENT HAD BEEN GRAPHED. THE FLUORESCEIN DATA THAT FOLLOW EVOLVE FROM THESE GRAPHS.

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 74.0 | 0 | 0. | 0. | 200 |
| 76.0 | 25 | 3.395E-08 | 6.450E-08 | 200 |
| 78.0 | 0 | 0. | 0. | 200 |
| 80.0 | 89 | 1.188E-07 | 2.258E-07 | 200 |
| 82.0 | 494 | 6.535E-07 | 1.242E-06 | 200 |
| 84.0 | 4404 | 5.818E-06 | 1.105E-05 | 200 |
| 86.0 | 30944 | 4.088E-05 | 7.767E-05 | 200 |
| 88.0 | 108100 | 1.428E-04 | 2.713E-04 | 200 |
| 90.0 | 151003 | 1.995E-04 | 3.790E-04 | 200 |
| 92.0 | 172837 | 2.283E-04 | 4.338E-04 | 200 |
| 94.0 | 185843 | 2.455E-04 | 4.665E-04 | 200 |
| 96.0 | 125603 | 1.659E-04 | 3.153E-04 | 200 |
| 98.0 | 90666 | 1.198E-04 | 2.276E-04 | 200 |
| 100.0 | 89028 | 1.176E-04 | 2.235E-04 | 200 |
| 102.0 | 136634 | 1.805E-04 | 3.429E-04 | 200 |
| 104.0 | 127987 | 1.691E-04 | 3.212E-04 | 200 |
| 106.0 | 146975 | 1.942E-04 | 3.689E-04 | 200 |
| 108.0 | 264114 | 3.489E-04 | 6.629E-04 | 200 |
| 110.0 | 242113 | 3.198E-04 | 6.077E-04 | 200 |
| 112.0 | 175799 | 2.322E-04 | 4.412E-04 | 200 |
| 114.0 | 135674 | 1.792E-04 | 3.405E-04 | 200 |
| 116.0 | 62100 | 8.203E-05 | 1.559E-04 | 200 |
| 118.0 | 13716 | 1.812E-05 | 3.443E-05 | 200 |
| 120.0 | 452 | 5.983E-07 | 1.137E-06 | 200 |
| 122.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 2.089E-02 SEC/SQ.M 3.968E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 78.0 | 1 | 0. | 0. | 200 |
| 80.0 | 30 | 3.963E-08 | 7.530E-08 | 200 |
| 82.0 | 470 | 6.209E-07 | 1.180E-06 | 200 |
| 84.0 | 4700 | 6.209E-06 | 1.180E-05 | 200 |
| 86.0 | 30000 | 3.963E-05 | 7.530E-05 | 200 |
| 88.0 | 145000 | 1.915E-04 | 3.639E-04 | 200 |
| 90.0 | 136000 | 1.797E-04 | 3.413E-04 | 200 |
| 92.0 | 298000 | 3.937E-04 | 7.480E-04 | 200 |
| 94.0 | 254000 | 3.355E-04 | 6.375E-04 | 200 |
| 96.0 | 160000 | 2.114E-04 | 4.016E-04 | 200 |
| 98.0 | 165000 | 2.180E-04 | 4.141E-04 | 200 |
| 100.0 | 102000 | 1.347E-04 | 2.560E-04 | 200 |
| 102.0 | 190000 | 2.510E-04 | 4.769E-04 | 200 |
| 104.0 | 190000 | 2.510E-04 | 4.769E-04 | 200 |
| 106.0 | 172000 | 2.272E-04 | 4.317E-04 | 200 |
| 108.0 | 365000 | 4.822E-04 | 9.161E-04 | 200 |
| 110.0 | 315000 | 4.161E-04 | 7.906E-04 | 200 |
| 112.0 | 220000 | 2.906E-04 | 5.522E-04 | 200 |
| 114.0 | 170000 | 2.246E-04 | 4.267E-04 | 200 |
| 116.0 | 40500 | 5.350E-05 | 1.017E-04 | 200 |
| 118.0 | 19000 | 2.510E-05 | 4.769E-05 | 200 |
| 120.0 | 1000 | 1.321E-06 | 2.510E-06 | 200 |
| 122.0 | 1 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 2.746E-02 SEC/SQ.M 5.218E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.0 | 0 | 0. | 0. | 800 |
| 86.0 | 991 | 1.309E-06 | 2.488E-06 | 800 |
| 88.0 | 9107 | 1.203E-05 | 2.286E-05 | 800 |
| 90.0 | 38282 | 5.057E-05 | 9.608E-05 | 800 |
| 92.0 | 57249 | 7.563E-05 | 1.437E-04 | 800 |
| 94.0 | 50844 | 6.717E-05 | 1.276E-04 | 800 |
| 96.0 | 34528 | 4.561E-05 | 8.666E-05 | 800 |
| 98.0 | 28077 | 3.709E-05 | 7.047E-05 | 800 |
| 100.0 | 26694 | 3.526E-05 | 6.700E-05 | 800 |
| 102.0 | 22074 | 2.916E-05 | 5.540E-05 | 800 |
| 104.0 | 24379 | 3.221E-05 | 6.119E-05 | 800 |
| 106.0 | 32962 | 4.354E-05 | 8.273E-05 | 800 |
| 108.0 | 44067 | 5.821E-05 | 1.106E-04 | 800 |
| 110.0 | 34338 | 4.536E-05 | 8.619E-05 | 800 |
| 112.0 | 24078 | 3.181E-05 | 6.044E-05 | 800 |
| 114.0 | 24230 | 3.201E-05 | 6.082E-05 | 800 |
| 116.0 | 25706 | 3.396E-05 | 6.452E-05 | 800 |
| 118.0 | 8840 | 1.168E-05 | 2.219E-05 | 800 |
| 120.0 | 118 | 1.560E-07 | 2.964E-07 | 800 |
| 122.0 | 12 | 1.642E-08 | 3.120E-08 | 800 |
| 124.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 1.795E-02 SEC/SQ.M 3.410E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.0 | 1 | 0. | 0. | 800 |
| 86.0 | 3050 | 4.029E-06 | 7.655E-06 | 800 |
| 88.0 | 9900 | 1.308E-05 | 2.485E-05 | 800 |
| 90.0 | 46000 | 6.077E-05 | 1.155E-04 | 800 |
| 92.0 | 75000 | 9.908E-05 | 1.882E-04 | 800 |
| 94.0 | 62000 | 8.190E-05 | 1.556E-04 | 800 |
| 96.0 | 55000 | 7.266E-05 | 1.380E-04 | 800 |
| 98.0 | 36000 | 4.756E-05 | 9.036E-05 | 800 |
| 100.0 | 30500 | 4.029E-05 | 7.655E-05 | 800 |
| 102.0 | 30500 | 4.029E-05 | 7.655E-05 | 800 |
| 104.0 | 39000 | 5.152E-05 | 9.789E-05 | 800 |
| 106.0 | 41000 | 5.416E-05 | 1.029E-04 | 800 |
| 108.0 | 55000 | 7.266E-05 | 1.380E-04 | 800 |
| 110.0 | 27500 | 3.633E-05 | 6.902E-05 | 800 |
| 112.0 | 27000 | 3.567E-05 | 6.777E-05 | 800 |
| 114.0 | 24500 | 3.236E-05 | 6.149E-05 | 800 |
| 116.0 | 30000 | 3.963E-05 | 7.530E-05 | 800 |
| 118.0 | 8000 | 1.057E-05 | 2.008E-05 | 800 |
| 120.0 | 200 | 2.642E-07 | 5.020E-07 | 800 |
| 122.0 | 30 | 3.963E-08 | 7.530E-08 | 800 |
| 124.0 | 1 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 2.214E-02 SEC/SQ.M 4.207E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 89.0 | 0 | 0. | 0. | 1600 |
| 90.0 | 8 | 1.134E-08 | 2.155E-08 | 1600 |
| 91.0 | 193 | 2.552E-07 | 4.849E-07 | 1600 |
| 92.0 | 899 | 1.188E-06 | 2.258E-06 | 1600 |
| 93.0 | 4048 | 5.349E-06 | 1.016E-05 | 1600 |
| 94.0 | 11455 | 1.513E-05 | 2.875E-05 | 1600 |
| 95.0 | 16848 | 2.226E-05 | 4.229E-05 | 1600 |
| 96.0 | 21268 | 2.810E-05 | 5.336E-05 | 1600 |
| 97.0 | 21517 | 2.842E-05 | 5.401E-05 | 1600 |
| 98.0 | 18790 | 2.482E-05 | 4.716E-05 | 1600 |
| 99.0 | 15796 | 2.087E-05 | 3.965E-05 | 1600 |
| 100.0 | 13134 | 1.735E-05 | 3.297E-05 | 1600 |
| 101.0 | 10465 | 1.383E-05 | 2.627E-05 | 1600 |
| 102.0 | 9546 | 1.261E-05 | 2.396E-05 | 1600 |
| E 103.0 | 10411 | 1.375E-05 | 2.613E-05 | 1600 |
| E 104.0 | 9604 | 1.269E-05 | 2.411E-05 | 1600 |
| E 105.0 | 9059 | 1.197E-05 | 2.274E-05 | 1600 |
| E 106.0 | 10223 | 1.350E-05 | 2.566E-05 | 1600 |
| E 107.0 | 10671 | 1.410E-05 | 2.679E-05 | 1600 |
| 108.0 | 11124 | 1.470E-05 | 2.792E-05 | 1600 |
| 109.0 | 15502 | 2.048E-05 | 3.891E-05 | 1600 |
| 110.0 | 15800 | 2.087E-05 | 3.966E-05 | 1600 |
| 111.0 | 18056 | 2.385E-05 | 4.532E-05 | 1600 |
| 112.0 | 11562 | 1.527E-05 | 2.902E-05 | 1600 |
| 113.0 | 8278 | 1.094E-05 | 2.078E-05 | 1600 |
| 114.0 | 7028 | 9.285E-06 | 1.764E-05 | 1600 |
| 115.0 | 4259 | 5.626E-06 | 1.069E-05 | 1600 |
| 116.0 | 6023 | 7.958E-06 | 1.512E-05 | 1600 |
| 117.0 | 4572 | 6.041E-06 | 1.148E-05 | 1600 |
| 118.0 | 1687 | 2.229E-06 | 4.235E-06 | 1600 |
| 119.0 | 212 | 2.808E-07 | 5.334E-07 | 1600 |
| 120.0 | 0 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 1.099E-02 SEC/SQ.M 2.089E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 89.0 | 1 | 0. | 0. | 1600 |
| 90.0 | 50 | 6.605E-08 | 1.255E-07 | 1600 |
| 91.0 | 260 | 3.435E-07 | 6.526E-07 | 1600 |
| 92.0 | 930 | 1.229E-06 | 2.334E-06 | 1600 |
| 93.0 | 4200 | 5.548E-06 | 1.054E-05 | 1600 |
| 94.0 | 9700 | 1.281E-05 | 2.435E-05 | 1600 |
| 95.0 | 19500 | 2.576E-05 | 4.894E-05 | 1600 |
| 96.0 | 19500 | 2.576E-05 | 4.894E-05 | 1600 |
| 97.0 | 24500 | 3.236E-05 | 6.149E-05 | 1600 |
| 98.0 | 21000 | 2.774E-05 | 5.271E-05 | 1600 |
| 99.0 | 18000 | 2.378E-05 | 4.518E-05 | 1600 |
| 100.0 | 12200 | 1.612E-05 | 3.062E-05 | 1600 |
| 101.0 | 10400 | 1.374E-05 | 2.610E-05 | 1600 |
| 102.0 | 10800 | 1.427E-05 | 2.711E-05 | 1600 |
| E 103.0 | 11000 | 1.453E-05 | 2.761E-05 | 1600 |
| E 104.0 | 11000 | 1.453E-05 | 2.761E-05 | 1600 |
| E 105.0 | 11500 | 1.519E-05 | 2.886E-05 | 1600 |
| E 106.0 | 11000 | 1.453E-05 | 2.761E-05 | 1600 |
| E 107.0 | 13000 | 1.717E-05 | 3.263E-05 | 1600 |
| 108.0 | 13500 | 1.783E-05 | 3.388E-05 | 1600 |
| 109.0 | 16300 | 2.153E-05 | 4.091E-05 | 1600 |
| 110.0 | 15800 | 2.087E-05 | 3.966E-05 | 1600 |
| 111.0 | 16800 | 2.219E-05 | 4.217E-05 | 1600 |
| 112.0 | 12800 | 1.691E-05 | 3.213E-05 | 1600 |
| 113.0 | 9700 | 1.281E-05 | 2.435E-05 | 1600 |
| 114.0 | 6500 | 8.587E-06 | 1.631E-05 | 1600 |
| 115.0 | 4500 | 5.945E-06 | 1.129E-05 | 1600 |
| 116.0 | 7000 | 9.247E-06 | 1.757E-05 | 1600 |
| 117.0 | 4800 | 6.341E-06 | 1.205E-05 | 1600 |
| 118.0 | 2150 | 2.840E-06 | 5.396E-06 | 1600 |
| 119.0 | 250 | 3.303E-07 | 6.275E-07 | 1600 |
| 120.0 | 1 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 1.175E-02 SEC/SQ.M 2.233E-02 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 0. | 0. | 3200 |
| 97.0 | 7 | 1.026E-08 | 1.949E-08 | 3200 |
| 98.0 | 60 | 7.952E-08 | 1.511E-07 | 3200 |
| 99.0 | 413 | 5.464E-07 | 1.038E-06 | 3200 |
| 100.0 | 1186 | 1.567E-06 | 2.978E-06 | 3200 |
| 101.0 | 2186 | 2.888E-06 | 5.488E-06 | 3200 |
| 102.0 | 3047 | 4.026E-06 | 7.649E-06 | 3200 |
| 103.0 | 4452 | 5.882E-06 | 1.118E-05 | 3200 |
| 104.0 | 4646 | 6.138E-06 | 1.166E-05 | 3200 |
| 105.0 | 3448 | 4.556E-06 | 8.656E-06 | 3200 |
| 106.0 | 1141 | 1.508E-06 | 2.866E-06 | 3200 |
| 107.0 | 2948 | 3.895E-06 | 7.401E-06 | 3200 |
| 108.0 | 2254 | 2.978E-06 | 5.658E-06 | 3200 |
| 109.0 | 2930 | 3.871E-06 | 7.354E-06 | 3200 |
| 110.0 | 3426 | 4.526E-06 | 8.599E-06 | 3200 |
| 111.0 | 3368 | 4.450E-06 | 8.456E-06 | 3200 |
| 112.0 | 3228 | 4.264E-06 | 8.102E-06 | 3200 |
| 113.0 | 2702 | 3.571E-06 | 6.784E-06 | 3200 |
| 114.0 | 1967 | 2.600E-06 | 4.939E-06 | 3200 |
| W 115.0 | 1235 | 1.633E-06 | 3.102E-06 | 3200 |
| W 116.0 | 1272 | 1.681E-06 | 3.195E-06 | 3200 |
| W 117.0 | 1043 | 1.379E-06 | 2.620E-06 | 3200 |
| 118.0 | 412 | 5.451E-07 | 1.036E-06 | 3200 |
| 119.0 | 69 | 9.234E-08 | 1.754E-07 | 3200 |
| 120.0 | 1 | 2.565E-09 | 4.874E-09 | 3200 |
| 121.0 | 1 | 2.565E-09 | 4.874E-09 | 3200 |
| 122.0 | 0 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 3.501E-03 SEC/SQ.M 6.653E-03 1/M

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.0 | 1 | 0. | 0. | 3200 |
| 98.0 | 60 | 7.926E-08 | 1.506E-07 | 3200 |
| 99.0 | 440 | 5.812E-07 | 1.104E-06 | 3200 |
| 100.0 | 970 | 1.281E-06 | 2.435E-06 | 3200 |
| 101.0 | 1630 | 2.153E-06 | 4.091E-06 | 3200 |
| 102.0 | 2450 | 3.236E-06 | 6.149E-06 | 3200 |
| 103.0 | 3500 | 4.624E-06 | 8.785E-06 | 3200 |
| 104.0 | 4000 | 5.284E-06 | 1.004E-05 | 3200 |
| 105.0 | 3150 | 4.161E-06 | 7.906E-06 | 3200 |
| 106.0 | 2400 | 3.170E-06 | 6.024E-06 | 3200 |
| 107.0 | 3050 | 4.029E-06 | 7.655E-06 | 3200 |
| 108.0 | 2100 | 2.774E-06 | 5.271E-06 | 3200 |
| 109.0 | 3550 | 4.690E-06 | 8.910E-06 | 3200 |
| 110.0 | 3650 | 4.822E-06 | 9.161E-06 | 3200 |
| 111.0 | 3200 | 4.227E-06 | 8.032E-06 | 3200 |
| 112.0 | 3150 | 4.161E-06 | 7.906E-06 | 3200 |
| 113.0 | 2450 | 3.236E-06 | 6.149E-06 | 3200 |
| 114.0 | 2350 | 3.104E-06 | 5.898E-06 | 3200 |
| W 115.0 | 1270 | 1.678E-06 | 3.188E-06 | 3200 |
| W 116.0 | 1280 | 1.691E-06 | 3.213E-06 | 3200 |
| W 117.0 | 1350 | 1.783E-06 | 3.388E-06 | 3200 |
| 118.0 | 380 | 5.020E-07 | 9.538E-07 | 3200 |
| 119.0 | 80 | 1.057E-07 | 2.008E-07 | 3200 |
| 120.0 | 50 | 6.605E-08 | 1.255E-07 | 3200 |
| 121.0 | 1 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 3.431E-03 SEC/SQ.M 6.520E-03 1/M



1202678

D2

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 23684 | 3.129E-05 | 5.945E-05 | 200 |
| 98.0 | .7 | 22675 | 2.995E-05 | 5.691E-05 | 200 |
| 98.0 | 1.4 | 14815 | 1.957E-05 | 3.718E-05 | 200 |
| 98.0 | 1.5 | 90666 | 1.198E-04 | 2.276E-04 | 200 |
| 98.0 | 2.7 | 125116. | 1.653E-04 | 3.140E-04 | 200 |
| 98.0 | 4.1 | 178714 | 2.361E-04 | 4.486E-04 | 200 |
| 98.0 | 5.4 | 206449 | 2.727E-04 | 5.182E-04 | 200 |
| 98.0 | 6.8 | 164811 | 2.177E-04 | 4.137E-04 | 200 |
| 98.0 | 8.1 | 185452 | 2.450E-04 | 4.655E-04 | 200 |
| 98.0 | 9.5 | 165867 | 2.191E-04 | 4.163E-04 | 200 |
| 98.0 | 10.8 | 140411 | 1.855E-04 | 3.524E-04 | 200 |
| 98.0 | 13.5 | 41314 | 5.458E-05 | 1.037E-04 | 200 |
| 98.0 | 16.2 | 7351 | 9.711E-06 | 1.845E-05 | 200 |
| 98.0 | 18.9 | 566 | 7.487E-07 | 1.423E-06 | 200 |
| 98.0 | 21.6 | 38 | 5.085E-08 | 9.661E-08 | 200 |
| 98.0 | 24.3 | 0 | 0. | 0. | 200 |
| 98.0 | 27.0 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 53433 | 7.059E-05 | 1.341E-04 | 200 |
| 106.0 | .7 | 49735 | 6.570E-05 | 1.248E-04 | 200 |
| 106.0 | 1.4 | 52980 | 6.999E-05 | 1.330E-04 | 200 |
| 106.0 | 1.5 | 146975 | 1.942E-04 | 3.689E-04 | 200 |
| 106.0 | 2.7 | 189773 | 2.507E-04 | 4.763E-04 | 200 |
| 106.0 | 4.1 | 236672 | 3.126E-04 | 5.940E-04 | 200 |
| 106.0 | 5.4 | 236243 | 3.121E-04 | 5.929E-04 | 200 |
| 106.0 | 6.8 | 163436 | 2.159E-04 | 4.102E-04 | 200 |
| 106.0 | 8.1 | 194187 | 2.565E-04 | 4.874E-04 | 200 |
| 106.0 | 9.5 | 145057 | 1.916E-04 | 3.641E-04 | 200 |
| 106.0 | 10.8 | 123157 | 1.627E-04 | 3.091E-04 | 200 |
| 106.0 | 13.5 | 30603 | 4.043E-05 | 7.681E-05 | 200 |
| 106.0 | 16.2 | 23859 | 3.152E-05 | 5.989E-05 | 200 |
| 106.0 | 18.9 | 6195 | 8.184E-06 | 1.555E-05 | 200 |
| 106.0 | 21.6 | 1795 | 2.371E-06 | 4.506E-06 | 200 |
| 106.0 | 24.3 | 118 | 1.567E-07 | 2.977E-07 | 200 |
| 106.0 | 27.0 | 5 | 7.544E-09 | 1.433E-08 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 45437 | 6.002E-05 | 1.140E-04 | 200 |
| 114.0 | .7 | 30132 | 3.981E-05 | 7.563E-05 | 200 |
| 114.0 | 1.4 | 29051 | 3.838E-05 | 7.292E-05 | 200 |
| 114.0 | 1.5 | 135674 | 1.792E-04 | 3.405E-04 | 200 |
| 114.0 | 2.7 | 117845. | 1.557E-04 | 2.958E-04 | 200 |
| 114.0 | 4.1 | 182046 | 2.405E-04 | 4.569E-04 | 200 |
| 114.0 | 5.4 | 122477 | 1.618E-04 | 3.074E-04 | 200 |
| 114.0 | 6.8 | 179465 | 2.371E-04 | 4.504E-04 | 200 |
| 114.0 | 8.1 | 86615 | 1.144E-04 | 2.174E-04 | 200 |
| 114.0 | 9.5 | 91695 | 1.211E-04 | 2.301E-04 | 200 |
| 114.0 | 10.8 | 82671 | 1.092E-04 | 2.075E-04 | 200 |
| 114.0 | 13.5 | 20669 | 2.730E-05 | 5.188E-05 | 200 |
| 114.0 | 16.2 | 4397 | 5.809E-06 | 1.104E-05 | 200 |
| 114.0 | 18.9 | 473 | 6.257E-07 | 1.189E-06 | 200 |
| 114.0 | 21.6 | 7 | 1.017E-08 | 1.932E-08 | 200 |
| 114.0 | 24.3 | 2 | 3.868E-09 | 7.350E-09 | 200 |
| 114.0 | 27.0 | 4 | 5.658E-09 | 1.075E-08 | 200 |

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 31000 | 4.095E-05 | 7.781E-05 | 200 |
| 98.0 | .7 | 34000 | 4.491E-05 | 8.534E-05 | 200 |
| 98.0 | 1.4 | 25000 | 3.303E-05 | 6.275E-05 | 200 |
| 98.0 | 1.5 | 165000 | 2.180E-04 | 4.141E-04 | 200 |
| 98.0 | 2.7 | 105000 | 1.387E-04 | 2.635E-04 | 200 |
| 98.0 | 4.1 | 202000 | 2.668E-04 | 5.070E-04 | 200 |
| 98.0 | 5.4 | 259000 | 3.421E-04 | 6.501E-04 | 200 |
| 98.0 | 6.8 | 190000 | 2.510E-04 | 4.769E-04 | 200 |
| 98.0 | 8.1 | 202000 | 2.668E-04 | 5.070E-04 | 200 |
| 98.0 | 9.5 | 227000 | 2.999E-04 | 5.697E-04 | 200 |
| 98.0 | 10.8 | 232000 | 3.065E-04 | 5.823E-04 | 200 |
| 98.0 | 13.5 | 52000 | 6.869E-05 | 1.305E-04 | 200 |
| 98.0 | 16.2 | 10300 | 1.361E-05 | 2.585E-05 | 200 |
| 98.0 | 18.9 | 1520 | 2.008E-06 | 3.815E-06 | 200 |
| 98.0 | 21.6 | 250 | 3.303E-07 | 6.275E-07 | 200 |
| 98.0 | 24.3 | 540 | 7.133E-07 | 1.355E-06 | 200 |
| 98.0 | 27.0 | 190 | 2.510E-07 | 4.769E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 62000 | 8.190E-05 | 1.556E-04 | 200 |
| 106.0 | .7 | 61000 | 8.058E-05 | 1.531E-04 | 200 |
| 106.0 | 1.4 | 66000 | 8.719E-05 | 1.657E-04 | 200 |
| 106.0 | 1.5 | 172000 | 2.272E-04 | 4.317E-04 | 200 |
| 106.0 | 2.7 | 205000 | 2.708E-04 | 5.145E-04 | 200 |
| 106.0 | 4.1 | 260000 | 3.435E-04 | 6.526E-04 | 200 |
| 106.0 | 5.4 | 485000 | 6.407E-04 | 1.217E-03 | 200 |
| 106.0 | 6.8 | 141000 | 1.863E-04 | 3.539E-04 | 200 |
| 106.0 | 8.1 | 270000 | 3.567E-04 | 6.777E-04 | 200 |
| 106.0 | 9.5 | 148000 | 1.955E-04 | 3.715E-04 | 200 |
| 106.0 | 10.8 | 208000 | 2.748E-04 | 5.221E-04 | 200 |
| 106.0 | 13.5 | 46500 | 6.143E-05 | 1.167E-04 | 200 |
| 106.0 | 16.2 | 37000 | 4.888E-05 | 9.287E-05 | 200 |
| 106.0 | 18.9 | 13600 | 1.797E-05 | 3.413E-05 | 200 |
| 106.0 | 21.6 | 2100 | 2.774E-06 | 5.271E-06 | 200 |
| 106.0 | 24.3 | 260 | 3.435E-07 | 6.526E-07 | 200 |
| 106.0 | 27.0 | 1 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 38000 | 5.020E-05 | 9.538E-05 | 200 |
| 114.0 | .7 | 35500 | 4.690E-05 | 8.910E-05 | 200 |
| 114.0 | 1.4 | 33000 | 4.359E-05 | 8.283E-05 | 200 |
| 114.0 | 1.5 | 170000 | 2.246E-04 | 4.267E-04 | 200 |
| 114.0 | 2.7 | 111000 | 1.466E-04 | 2.786E-04 | 200 |
| 114.0 | 4.1 | 159000 | 2.100E-04 | 3.991E-04 | 200 |
| 114.0 | 5.4 | 132000 | 1.744E-04 | 3.313E-04 | 200 |
| 114.0 | 6.8 | 226000 | 2.985E-04 | 5.672E-04 | 200 |
| 114.0 | 8.1 | 110000 | 1.453E-04 | 2.761E-04 | 200 |
| 114.0 | 9.5 | 123000 | 1.625E-04 | 3.087E-04 | 200 |
| 114.0 | 10.8 | 102000 | 1.347E-04 | 2.560E-04 | 200 |
| 114.0 | 13.5 | 39000 | 5.152E-05 | 9.789E-05 | 200 |
| 114.0 | 16.2 | 6500 | 8.587E-06 | 1.631E-05 | 200 |
| 114.0 | 18.9 | 1090 | 1.440E-06 | 2.736E-06 | 200 |
| 114.0 | 21.6 | 40 | 5.284E-08 | 1.004E-07 | 200 |
| 114.0 | 24.3 | 190 | 2.510E-07 | 4.769E-07 | 200 |
| 114.0 | 27.0 | 330 | 4.359E-07 | 8.283E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 0 | 0. | 0. | 200 |
| 122.0 | .7 | 33 | 4.446E-08 | 8.446E-08 | 200 |
| 122.0 | 1.4 | 6 | 8.487E-09 | 1.613E-08 | 200 |
| 122.0 | 1.5 | 0 | 0. | 0. | 200 |
| 122.0 | 2.7 | 494 | 6.535E-07 | 1.242E-06 | 200 |
| 122.0 | 4.1 | 463 | 6.124E-07 | 1.164E-06 | 200 |
| 122.0 | 5.4 | 183 | 2.420E-07 | 4.599E-07 | 200 |
| 122.0 | 6.8 | 320 | 4.230E-07 | 8.036E-07 | 200 |
| 122.0 | 8.1 | 287 | 3.801E-07 | 7.221E-07 | 200 |
| 122.0 | 9.5 | 217 | 2.876E-07 | 5.465E-07 | 200 |
| 122.0 | 10.8 | 140 | 1.857E-07 | 3.528E-07 | 200 |
| 122.0 | 13.5 | 50 | 6.622E-08 | 1.258E-07 | 200 |
| 122.0 | 16.2 | 17 | 2.249E-08 | 4.273E-08 | 200 |
| 122.0 | 18.9 | 11 | 1.460E-08 | 2.774E-08 | 200 |
| 122.0 | 21.6 | 18 | 2.441E-08 | 4.637E-08 | 200 |
| 122.0 | 24.3 | 36 | 4.835E-08 | 9.187E-08 | 200 |
| 122.0 | 27.0 | 18 | 2.452E-08 | 4.659E-08 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 1 | 0. | 0. | 200 |
| 122.0 | .7 | 1 | 0. | 0. | 200 |
| 122.0 | 1.4 | 1 | 0. | 0. | 200 |
| 122.0 | 1.5 | 1 | 0. | 0. | 200 |
| 122.0 | 2.7 | 1 | 0. | 0. | 200 |
| 122.0 | 4.1 | 110 | 1.453E-07 | 2.761E-07 | 200 |
| 122.0 | 5.4 | 1 | 0. | 0. | 200 |
| 122.0 | 6.8 | 1 | 0. | 0. | 200 |
| 122.0 | 8.1 | 1510 | 1.995E-06 | 3.790E-06 | 200 |
| 122.0 | 9.5 | 20 | 2.642E-08 | 5.020E-08 | 200 |
| 122.0 | 10.8 | 30 | 3.963E-08 | 7.530E-08 | 200 |
| 122.0 | 13.5 | 140 | 1.849E-07 | 3.514E-07 | 200 |
| 122.0 | 16.2 | 1 | 0. | 0. | 200 |
| 122.0 | 18.9 | 1 | 0. | 0. | 200 |
| 122.0 | 21.6 | 1 | 0. | 0. | 200 |
| 122.0 | 24.3 | 10 | 1.321E-08 | 2.510E-08 | 200 |
| 122.0 | 27.0 | 30 | 3.963E-08 | 7.530E-08 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 0 | 0. | 0. | 200 |
| 130.0 | .7 | 0 | 0. | 0. | 200 |
| 130.0 | 1.4 | 0 | 0. | 0. | 200 |
| 130.0 | 1.5 | 0 | 0. | 0. | 200 |
| 130.0 | 2.7 | 391 | 5.173E-07 | 9.830E-07 | 200 |
| 130.0 | 4.1 | 650 | 8.589E-07 | 1.632E-06 | 200 |
| 130.0 | 5.4 | 410 | 5.428E-07 | 1.031E-06 | 200 |
| 130.0 | 6.8 | 285 | 3.771E-07 | 7.164E-07 | 200 |
| 130.0 | 8.1 | 301 | 3.983E-07 | 7.568E-07 | 200 |
| 130.0 | 9.5 | 72 | 9.587E-08 | 1.822E-07 | 200 |
| 130.0 | 10.8 | 51 | 6.799E-08 | 1.292E-07 | 200 |
| 130.0 | 13.5 | 66 | 8.750E-08 | 1.663E-07 | 200 |
| 130.0 | 16.2 | 90 | 1.192E-07 | 2.265E-07 | 200 |
| 130.0 | 18.9 | 31 | 4.171E-08 | 7.925E-08 | 200 |
| E 130.0 | 21.6 | 30 | 4.068E-08 | 7.729E-08 | 200 |
| 130.0 | 24.3 | 29 | 3.868E-08 | 7.350E-08 | 200 |
| 130.0 | 27.0 | 29 | 3.961E-08 | 7.526E-08 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .3 | 1 | 0. | 0. | 200 |

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
BOOM ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 14564 | 1.924E-05 | 3.656E-05 | 800 |
| 98.0 | .5 | 25811 | 3.410E-05 | 6.478E-05 | 800 |
| 98.0 | 1.1 | 29106 | 3.845E-05 | 7.305E-05 | 800 |
| 98.0 | 1.5 | 28077 | 3.709E-05 | 7.047E-05 | 800 |
| 98.0 | 2.1 | 27920 | 3.688E-05 | 7.008E-05 | 800 |
| 98.0 | 4.2 | 29001 | 3.831E-05 | 7.279E-05 | 800 |
| 98.0 | 6.3 | 29093 | 3.843E-05 | 7.302E-05 | 800 |
| 98.0 | 8.4 | 2744 | 3.625E-06 | 6.888E-06 | 800 |
| 98.0 | 10.5 | 23698 | 3.131E-05 | 5.948E-05 | 800 |
| 98.0 | 12.6 | 11047 | 1.459E-05 | 2.773E-05 | 800 |
| 98.0 | 14.7 | 9566 | 1.264E-05 | 2.401E-05 | 800 |
| 98.0 | 16.8 | 4291 | 5.668E-06 | 1.077E-05 | 800 |
| 98.0 | 21.0 | 872 | 1.153E-06 | 2.190E-06 | 800 |
| 98.0 | 25.2 | 160 | 2.114E-07 | 4.017E-07 | 800 |
| 98.0 | 29.4 | 19 | 2.603E-08 | 4.945E-08 | 800 |
| 98.0 | 33.6 | 4 | 6.600E-09 | 1.254E-08 | 800 |
| 98.0 | 37.8 | 0 | 0. | 0. | 800 |
| 98.0 | 42.0 | 0 | 0. | 0. | 800 |

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
BOOM ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 15000 | 1.982E-05 | 3.765E-05 | 800 |
| 98.0 | .5 | 27500 | 3.633E-05 | 6.902E-05 | 800 |
| 98.0 | 1.1 | 23500 | 3.104E-05 | 5.898E-05 | 800 |
| 98.0 | 1.5 | 36000 | 4.756E-05 | 9.036E-05 | 800 |
| 98.0 | 2.1 | 28500 | 3.765E-05 | 7.153E-05 | 800 |
| 98.0 | 4.2 | 36000 | 4.756E-05 | 9.036E-05 | 800 |
| 98.0 | 6.3 | 37000 | 4.888E-05 | 9.287E-05 | 800 |
| 98.0 | 8.4 | 13800 | 1.823E-05 | 3.464E-05 | 800 |
| 98.0 | 10.5 | 34500 | 4.557E-05 | 8.659E-05 | 800 |
| 98.0 | 12.6 | 18800 | 2.483E-05 | 4.719E-05 | 800 |
| 98.0 | 14.7 | 12600 | 1.664E-05 | 3.162E-05 | 800 |
| 98.0 | 16.8 | 6100 | 8.058E-06 | 1.531E-05 | 800 |
| 98.0 | 21.0 | 1900 | 2.510E-06 | 4.769E-06 | 800 |
| 98.0 | 25.2 | 190 | 2.510E-07 | 4.769E-07 | 800 |
| 98.0 | 29.4 | 10 | 1.321E-08 | 2.510E-08 | 800 |
| 98.0 | 33.6 | 1 | 0. | 0. | 800 |
| 98.0 | 37.8 | 1 | 0. | 0. | 800 |
| 98.0 | 42.0 | 1 | 0. | 0. | 800 |



1202680

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 33725 | 4.455E-05 | 8.465E-05 | 800 |
| 106.0 | .5 | 30215 | 3.991E-05 | 7.584E-05 | 800 |
| 106.0 | 1.1 | 36209 | 4.783E-05 | 9.088E-05 | 800 |
| 106.0 | 1.5 | 32962 | 4.354E-05 | 8.273E-05 | 800 |
| 106.0 | 2.1 | 40591 | 5.362E-05 | 1.019E-04 | 800 |
| 106.0 | 4.2 | 51068 | 6.746E-05 | 1.282E-04 | 800 |
| 106.0 | 6.3 | 20695 | 2.734E-05 | 5.194E-05 | 800 |
| 106.0 | 8.4 | 3758 | 4.965E-06 | 9.433E-06 | 800 |
| 106.0 | 10.5 | 12333 | 1.629E-05 | 3.096E-05 | 800 |
| 106.0 | 12.6 | 10656 | 1.408E-05 | 2.675E-05 | 800 |
| 106.0 | 14.7 | 8349 | 1.103E-05 | 2.096E-05 | 800 |
| 106.0 | 16.8 | 5148 | 6.801E-06 | 1.292E-05 | 800 |
| 106.0 | 21.0 | 2220 | 2.933E-06 | 5.573E-06 | 800 |
| 106.0 | 25.2 | 941 | 1.244E-06 | 2.364E-06 | 800 |
| 106.0 | 29.4 | 237 | 3.140E-07 | 5.967E-07 | 800 |
| 106.0 | 33.6 | 38 | 5.115E-08 | 9.718E-08 | 800 |
| 106.0 | 37.8 | 71 | 9.493E-08 | 1.804E-07 | 800 |
| 106.0 | 42.0 | 46 | 6.120E-08 | 1.163E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 31000 | 4.095E-05 | 7.781E-05 | 800 |
| 106.0 | .5 | 33000 | 4.359E-05 | 8.283E-05 | 800 |
| 106.0 | 1.1 | 33500 | 4.425E-05 | 8.408E-05 | 800 |
| 106.0 | 1.5 | 41000 | 5.416E-05 | 1.029E-04 | 800 |
| 106.0 | 2.1 | 38500 | 5.086E-05 | 9.663E-05 | 800 |
| 106.0 | 4.2 | 38000 | 5.020E-05 | 9.538E-05 | 800 |
| 106.0 | 6.3 | 20400 | 2.695E-05 | 5.120E-05 | 800 |
| E 106.0 | 8.4 | 19000 | 2.510E-05 | 4.769E-05 | 800 |
| 106.0 | 10.5 | 18000 | 2.378E-05 | 4.518E-05 | 800 |
| 106.0 | 12.6 | 16000 | 2.114E-05 | 4.016E-05 | 800 |
| 106.0 | 14.7 | 9200 | 1.215E-05 | 2.309E-05 | 800 |
| 106.0 | 16.8 | 7400 | 9.775E-06 | 1.857E-05 | 800 |
| 106.0 | 21.0 | 3900 | 5.152E-06 | 9.789E-06 | 800 |
| 106.0 | 25.2 | 3100 | 4.095E-06 | 7.781E-06 | 800 |
| 106.0 | 29.4 | 670 | 8.851E-07 | 1.682E-06 | 800 |
| 106.0 | 33.6 | 70 | 9.247E-08 | 1.757E-07 | 800 |
| 106.0 | 37.8 | 160 | 2.114E-07 | 4.016E-07 | 800 |
| L 106.0 | 42.0 | 1 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 19120 | 2.526E-05 | 4.799E-05 | 800 |
| 114.0 | .5 | 18340 | 2.423E-05 | 4.603E-05 | 800 |
| 114.0 | 1.1 | 21381 | 2.824E-05 | 5.367E-05 | 800 |
| 114.0 | 1.5 | 24230 | 3.201E-05 | 6.082E-05 | 800 |
| 114.0 | 2.1 | 20549 | 2.715E-05 | 5.158E-05 | 800 |
| 114.0 | 4.2 | 20847 | 2.754E-05 | 5.232E-05 | 800 |
| 114.0 | 6.3 | 15830 | 2.091E-05 | 3.973E-05 | 800 |
| 114.0 | 8.4 | 16082 | 2.125E-05 | 4.037E-05 | 800 |
| 114.0 | 10.5 | 14302 | 1.889E-05 | 3.590E-05 | 800 |
| 114.0 | 12.6 | 8587 | 1.134E-05 | 2.155E-05 | 800 |
| 114.0 | 14.7 | 3699 | 4.888E-06 | 9.287E-06 | 800 |
| 114.0 | 16.8 | 2190 | 2.894E-06 | 5.498E-06 | 800 |
| 114.0 | 21.0 | 248 | 3.285E-07 | 6.242E-07 | 800 |
| 114.0 | 25.2 | 73 | 9.729E-08 | 1.848E-07 | 800 |
| 114.0 | 29.4 | 43 | 5.726E-08 | 1.088E-07 | 800 |
| 114.0 | 33.6 | 2 | 3.300E-09 | 6.270E-09 | 800 |
| 114.0 | 37.8 | 7 | 9.654E-09 | 1.834E-08 | 800 |
| 114.0 | 42.0 | 42 | 5.661E-08 | 1.076E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 19100 | 2.523E-05 | 4.794E-05 | 800 |
| 114.0 | .5 | 21600 | 2.853E-05 | 5.421E-05 | 800 |
| 114.0 | 1.1 | 24500 | 3.236E-05 | 6.149E-05 | 800 |
| 114.0 | 1.5 | 24500 | 3.236E-05 | 6.149E-05 | 800 |
| 114.0 | 2.1 | 17300 | 2.285E-05 | 4.342E-05 | 800 |
| 114.0 | 4.2 | 26700 | 3.527E-05 | 6.701E-05 | 800 |
| 114.0 | 6.3 | 16000 | 2.114E-05 | 4.016E-05 | 800 |
| 114.0 | 8.4 | 16500 | 2.180E-05 | 4.141E-05 | 800 |
| 114.0 | 10.5 | 16000 | 2.114E-05 | 4.016E-05 | 800 |
| 114.0 | 12.6 | 12200 | 1.612E-05 | 3.062E-05 | 800 |
| 114.0 | 14.7 | 5900 | 7.794E-06 | 1.481E-05 | 800 |
| 114.0 | 16.8 | 3030 | 4.003E-06 | 7.605E-06 | 800 |
| 114.0 | 21.0 | 410 | 5.416E-07 | 1.029E-06 | 800 |
| 114.0 | 25.2 | 100 | 1.321E-07 | 2.510E-07 | 800 |
| 114.0 | 29.4 | 70 | 9.247E-08 | 1.757E-07 | 800 |
| L 114.0 | 33.6 | 1 | 0. | 0. | 800 |
| 114.0 | 37.8 | 80 | 1.057E-07 | 2.008E-07 | 800 |
| L 114.0 | 42.0 | 1 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 3 | 4.515E-09 | 8.579E-09 | 800 |
| 122.0 | .5 | 0 | 0. | 0. | 800 |
| 122.0 | 1.1 | 3 | 4.105E-09 | 7.799E-09 | 800 |
| 122.0 | 1.5 | 12 | 1.642E-08 | 3.120E-08 | 800 |
| 122.0 | 2.1 | 2 | 3.926E-09 | 7.460E-09 | 800 |
| 122.0 | 4.2 | 365 | 5.093E-07 | 9.677E-07 | 800 |
| 122.0 | 6.3 | 189 | 2.504E-07 | 4.758E-07 | 800 |
| 122.0 | 8.4 | 130 | 1.721E-07 | 3.270E-07 | 800 |
| 122.0 | 10.5 | 86 | 1.141E-07 | 2.169E-07 | 800 |
| 122.0 | 12.6 | 79 | 1.056E-07 | 2.006E-07 | 800 |
| 122.0 | 14.7 | 128 | 1.695E-07 | 3.221E-07 | 800 |
| 122.0 | 16.8 | 51 | 6.789E-08 | 1.290E-07 | 800 |
| 122.0 | 21.0 | 32 | 4.328E-08 | 8.224E-08 | 800 |
| 122.0 | 25.2 | 11 | 1.497E-08 | 2.844E-08 | 800 |
| 122.0 | 29.4 | 13 | 1.735E-08 | 3.297E-08 | 800 |
| 122.0 | 33.6 | 21 | 2.805E-08 | 5.329E-08 | 800 |
| 122.0 | 37.8 | 19 | 2.574E-08 | 4.891E-08 | 800 |
| 122.0 | 42.0 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 1 | 0. | 0. | 800 |
| 122.0 | .5 | 1 | 0. | 0. | 800 |
| 122.0 | 1.1 | 1 | 0. | 0. | 800 |
| 122.0 | 1.5 | 30 | 3.963E-08 | 7.530E-08 | 800 |
| 122.0 | 2.1 | 1 | 0. | 0. | 800 |
| 122.0 | 4.2 | 110 | 1.453E-07 | 2.761E-07 | 800 |
| 122.0 | 6.3 | 40 | 5.284E-08 | 1.004E-07 | 800 |
| 122.0 | 8.4 | 80 | 1.057E-07 | 2.008E-07 | 800 |
| 122.0 | 10.5 | 10 | 1.321E-08 | 2.510E-08 | 800 |
| 122.0 | 12.6 | 1 | 0. | 0. | 800 |
| 122.0 | 14.7 | 20 | 2.642E-08 | 5.020E-08 | 800 |
| 122.0 | 16.8 | 10 | 1.321E-08 | 2.510E-08 | 800 |
| 122.0 | 21.0 | 1 | 0. | 0. | 800 |
| 122.0 | 25.2 | 30 | 3.963E-08 | 7.530E-08 | 800 |
| 122.0 | 29.4 | 30 | 3.963E-08 | 7.530E-08 | 800 |
| 122.0 | 33.6 | 1 | 0. | 0. | 800 |
| 122.0 | 37.8 | 1 | 0. | 0. | 800 |
| 122.0 | 42.0 | 1 | 0. | 0. | 800 |



D2 1202681

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 13 | 1.806E-08 | 3.432E-08 | 800 |
| 130.0 | .5 | 0 | 0. | 0. | 800 |
| 130.0 | 1.1 | 0 | 0. | 0. | 800 |
| 130.0 | 1.5 | 0 | 0. | 0. | 800 |
| M 130.0 | 2.1 | 0 | 0. | 0. | 800 |
| 130.0 | 4.2 | 216 | 2.854E-07 | 5.422E-07 | 800 |
| 130.0 | 6.3 | 76 | 1.008E-07 | 1.916E-07 | 800 |
| 130.0 | 8.4 | 195 | 2.581E-07 | 4.905E-07 | 800 |
| 130.0 | 10.5 | 35 | 4.669E-08 | 8.871E-08 | 800 |
| 130.0 | 12.6 | 83 | 1.103E-07 | 2.095E-07 | 800 |
| 130.0 | 14.7 | 67 | 8.923E-08 | 1.695E-07 | 800 |
| 130.0 | 16.8 | 33 | 4.455E-08 | 8.465E-08 | 800 |
| 130.0 | 21.0 | 16 | 2.164E-08 | 4.112E-08 | 800 |
| 130.0 | 25.2 | 49 | 6.548E-08 | 1.244E-07 | 800 |
| 130.0 | 29.4 | 7 | 1.041E-08 | 1.978E-08 | 800 |
| 130.0 | 33.6 | 12 | 1.650E-08 | 3.135E-08 | 800 |
| 130.0 | 37.8 | 24 | 3.218E-08 | 6.114E-08 | 800 |
| 130.0 | 42.0 | 8 | 1.071E-08 | 2.035E-08 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .3 | 1 | 0. | 0. | 800 |

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 16964 | 2.241E-05 | 4.258E-05 | 1600 |
| 98.0 | .4 | 16599 | 2.193E-05 | 4.166E-05 | 1600 |
| 98.0 | .8 | 21191 | 2.799E-05 | 5.319E-05 | 1600 |
| 98.0 | 1.5 | 18790 | 2.482E-05 | 4.716E-05 | 1600 |
| 98.0 | 1.6 | 21141 | 2.793E-05 | 5.306E-05 | 1600 |
| 98.0 | 3.1 | 22488 | 2.971E-05 | 5.644E-05 | 1600 |
| 98.0 | 6.2 | 16838 | 2.224E-05 | 4.226E-05 | 1600 |
| 98.0 | 9.3 | 12039 | 1.590E-05 | 3.022E-05 | 1600 |
| 98.0 | 12.4 | 7905 | 1.044E-05 | 1.984E-05 | 1600 |
| 98.0 | 15.5 | 3741 | 4.943E-06 | 9.391E-06 | 1600 |
| 98.0 | 18.6 | 1225 | 1.620E-06 | 3.077E-06 | 1600 |
| 98.0 | 21.7 | 506 | 6.687E-07 | 1.271E-06 | 1600 |
| 98.0 | 24.8 | 132 | 1.745E-07 | 3.315E-07 | 1600 |
| 98.0 | 31.0 | 18 | 2.462E-08 | 4.677E-08 | 1600 |
| 98.0 | 37.2 | 1 | 1.358E-09 | 2.580E-09 | 1600 |
| 98.0 | 43.4 | 3 | 5.095E-09 | 9.680E-09 | 1600 |
| 98.0 | 49.6 | 0 | 0. | 0. | 1600 |
| 98.0 | 55.8 | 4 | 5.973E-09 | 1.135E-08 | 1600 |
| 98.0 | 62.0 | 0 | 0. | 0. | 1600 |

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 15800 | 2.087E-05 | 3.966E-05 | 1600 |
| 98.0 | .4 | 16700 | 2.206E-05 | 4.192E-05 | 1600 |
| 98.0 | .8 | 18300 | 2.417E-05 | 4.593E-05 | 1600 |
| 98.0 | 1.5 | 21000 | 2.774E-05 | 5.271E-05 | 1600 |
| 98.0 | 1.6 | 19800 | 2.616E-05 | 4.970E-05 | 1600 |
| 98.0 | 3.1 | 22200 | 2.933E-05 | 5.572E-05 | 1600 |
| 98.0 | 6.2 | 18100 | 2.391E-05 | 4.543E-05 | 1600 |
| 98.0 | 9.3 | 16100 | 2.127E-05 | 4.041E-05 | 1600 |
| 98.0 | 12.4 | 5500 | 7.266E-06 | 1.380E-05 | 1600 |
| 98.0 | 15.5 | 11500 | 1.519E-05 | 2.886E-05 | 1600 |
| 98.0 | 18.6 | 1380 | 1.823E-06 | 3.464E-06 | 1600 |
| 98.0 | 21.7 | 590 | 7.794E-07 | 1.481E-06 | 1600 |
| 98.0 | 24.8 | 220 | 2.906E-07 | 5.522E-07 | 1600 |
| 98.0 | 31.0 | 10 | 1.321E-08 | 2.510E-08 | 1600 |
| L 98.0 | 37.2 | 1 | 0. | 0. | 1600 |
| L 98.0 | 43.4 | 1 | 0. | 0. | 1600 |
| L 98.0 | 49.6 | 1 | 0. | 0. | 1600 |
| L 98.0 | 55.8 | 1 | 0. | 0. | 1600 |
| L 98.0 | 62.0 | 1 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 106.0 | .2 | 7948 | 1.050E-05 | 1.995E-05 | 1600 |
| E 106.0 | .4 | 8179 | 1.080E-05 | 2.053E-05 | 1600 |
| E 106.0 | .8 | 10160 | 1.342E-05 | 2.550E-05 | 1600 |
| E 106.0 | 1.5 | 10223 | 1.350E-05 | 2.566E-05 | 1600 |
| 106.0 | 1.6 | 10354 | 1.368E-05 | 2.599E-05 | 1600 |
| 106.0 | 3.1 | 12062 | 1.596E-05 | 3.033E-05 | 1600 |
| 106.0 | 6.2 | 9360 | 1.236E-05 | 2.349E-05 | 1600 |
| 106.0 | 9.3 | 9474 | 1.252E-05 | 2.378E-05 | 1600 |
| 106.0 | 12.4 | 7475 | 9.875E-06 | 1.876E-05 | 1600 |
| 106.0 | 15.5 | 3328 | 4.397E-06 | 8.354E-06 | 1600 |
| 106.0 | 18.6 | 2389 | 3.157E-06 | 5.998E-06 | 1600 |
| 106.0 | 21.7 | 1382 | 1.826E-06 | 3.469E-06 | 1600 |
| 106.0 | 24.8 | 841 | 1.112E-06 | 2.112E-06 | 1600 |
| 106.0 | 31.0 | 457 | 6.038E-07 | 1.147E-06 | 1600 |
| 106.0 | 37.2 | 74 | 9.776E-08 | 1.858E-07 | 1600 |
| 106.0 | 43.4 | 46 | 6.114E-08 | 1.162E-07 | 1600 |
| 106.0 | 49.6 | 2 | 3.661E-09 | 6.956E-09 | 1600 |
| 106.0 | 55.8 | 3 | 4.778E-09 | 9.079E-09 | 1600 |
| 106.0 | 62.0 | 0 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 106.0 | .2 | 8500 | 1.123E-05 | 2.133E-05 | 1600 |
| E 106.0 | .4 | 8500 | 1.123E-05 | 2.133E-05 | 1600 |
| E 106.0 | .8 | 8500 | 1.123E-05 | 2.133E-05 | 1600 |
| 106.0 | 1.5 | 11000 | 1.453E-05 | 2.761E-05 | 1600 |
| 106.0 | 1.6 | 10200 | 1.347E-05 | 2.560E-05 | 1600 |
| 106.0 | 3.1 | 11200 | 1.480E-05 | 2.811E-05 | 1600 |
| 106.0 | 6.2 | 8900 | 1.176E-05 | 2.234E-05 | 1600 |
| 106.0 | 9.3 | 10900 | 1.440E-05 | 2.736E-05 | 1600 |
| 106.0 | 12.4 | 9300 | 1.229E-05 | 2.334E-05 | 1600 |
| 106.0 | 15.5 | 4800 | 6.341E-06 | 1.205E-05 | 1600 |
| 106.0 | 18.6 | 2050 | 2.708E-06 | 5.145E-06 | 1600 |
| 106.0 | 21.7 | 2050 | 2.708E-06 | 5.145E-06 | 1600 |
| 106.0 | 24.8 | 1150 | 1.519E-06 | 2.886E-06 | 1600 |
| 106.0 | 31.0 | 630 | 8.322E-07 | 1.581E-06 | 1600 |
| 106.0 | 37.2 | 480 | 6.341E-07 | 1.205E-06 | 1600 |
| 106.0 | 43.4 | 1600 | 2.114E-06 | 4.016E-06 | 1600 |
| 106.0 | 49.6 | 1 | 0. | 0. | 1600 |
| 106.0 | 55.8 | 1 | 0. | 0. | 1600 |
| 106.0 | 62.0 | 1 | 0. | 0. | 1600 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 6207 | 8.201E-06 | 1.558E-05 | 1600 |
| 114.0 | .4 | 5723 | 7.561E-06 | 1.437E-05 | 1600 |
| 114.0 | .8 | 6395 | 8.448E-06 | 1.605E-05 | 1600 |
| 114.0 | 1.5 | 7028 | 9.285E-06 | 1.764E-05 | 1600 |
| 114.0 | 1.6 | 6603 | 8.723E-06 | 1.657E-05 | 1600 |
| 114.0 | 3.1 | 7299 | 9.642E-06 | 1.832E-05 | 1600 |
| 114.0 | 6.2 | 6847 | 9.045E-06 | 1.719E-05 | 1600 |
| 114.0 | 9.3 | 6033 | 7.971E-06 | 1.514E-05 | 1600 |
| 114.0 | 12.4 | 2910 | 3.845E-06 | 7.305E-06 | 1600 |
| 114.0 | 15.5 | 1530 | 2.022E-06 | 3.842E-06 | 1600 |
| 114.0 | 18.6 | 794 | 1.049E-06 | 1.994E-06 | 1600 |
| 114.0 | 21.7 | 292 | 3.867E-07 | 7.348E-07 | 1600 |
| 114.0 | 24.8 | 119 | 1.575E-07 | 2.992E-07 | 1600 |
| 114.0 | 31.0 | 41 | 5.502E-08 | 1.045E-07 | 1600 |
| 114.0 | 37.2 | 21 | 2.852E-08 | 5.419E-08 | 1600 |
| 114.0 | 43.4 | 10 | 1.401E-08 | 2.662E-08 | 1600 |
| 114.0 | 49.6 | 1 | 2.441E-09 | 4.637E-09 | 1600 |
| 114.0 | 55.8 | 0 | 1.195E-09 | 2.270E-09 | 1600 |
| 114.0 | 62.0 | 0 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 5650 | 7.464E-06 | 1.418E-05 | 1600 |
| 114.0 | .4 | 5600 | 7.398E-06 | 1.406E-05 | 1600 |
| 114.0 | .8 | 4400 | 5.812E-06 | 1.104E-05 | 1600 |
| 114.0 | 1.5 | 6500 | 8.587E-06 | 1.631E-05 | 1600 |
| 114.0 | 1.6 | 4850 | 6.407E-06 | 1.217E-05 | 1600 |
| 114.0 | 3.1 | 4100 | 5.416E-06 | 1.029E-05 | 1600 |
| 114.0 | 6.2 | 3900 | 5.152E-06 | 9.789E-06 | 1600 |
| 114.0 | 9.3 | 3650 | 4.822E-06 | 9.161E-06 | 1600 |
| 114.0 | 12.4 | 3200 | 4.227E-06 | 8.032E-06 | 1600 |
| 114.0 | 15.5 | 1450 | 1.915E-06 | 3.639E-06 | 1600 |
| 114.0 | 18.6 | 840 | 1.110E-06 | 2.108E-06 | 1600 |
| 114.0 | 21.7 | 260 | 3.435E-07 | 6.526E-07 | 1600 |
| 114.0 | 24.8 | 160 | 2.114E-07 | 4.016E-07 | 1600 |
| 114.0 | 31.0 | 70 | 9.247E-08 | 1.757E-07 | 1600 |
| 114.0 | 37.2 | 10 | 1.321E-08 | 2.510E-08 | 1600 |
| 114.0 | 43.4 | 20 | 2.642E-08 | 5.020E-08 | 1600 |
| 114.0 | 49.6 | 40 | 5.284E-08 | 1.004E-07 | 1600 |
| 114.0 | 55.8 | 20 | 2.642E-08 | 5.020E-08 | 1600 |
| 114.0 | 62.0 | 1 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 2 | 2.978E-09 | 5.658E-09 | 1600 |
| 122.0 | .4 | 0 | 0. | 0. | 1600 |
| 122.0 | .8 | 0 | 0. | 0. | 1600 |
| 122.0 | 1.5 | 0 | 0. | 0. | 1600 |
| 122.0 | 1.6 | 0 | 0. | 0. | 1600 |
| 122.0 | 3.1 | 59 | 7.850E-08 | 1.492E-07 | 1600 |
| 122.0 | 6.2 | 68 | 9.088E-08 | 1.727E-07 | 1600 |
| 122.0 | 9.3 | 19 | 2.608E-08 | 4.956E-08 | 1600 |
| 122.0 | 12.4 | 0 | 0. | 0. | 1600 |
| 122.0 | 15.5 | 29 | 3.861E-08 | 7.337E-08 | 1600 |
| 122.0 | 18.6 | 2 | 3.363E-09 | 6.391E-09 | 1600 |
| 122.0 | 21.7 | 36 | 4.834E-08 | 9.185E-08 | 1600 |
| 122.0 | 24.8 | 8 | 1.081E-08 | 2.053E-08 | 1600 |
| 122.0 | 31.0 | 55 | 7.385E-08 | 1.403E-07 | 1600 |
| 122.0 | 37.2 | 20 | 2.716E-08 | 5.161E-08 | 1600 |
| 122.0 | 43.4 | 11 | 1.528E-08 | 2.904E-08 | 1600 |
| 122.0 | 49.6 | 7 | 9.763E-09 | 1.855E-08 | 1600 |
| 122.0 | 55.8 | 0 | 0. | 0. | 1600 |
| 122.0 | 62.0 | 0 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 1 | 0. | 0. | 1600 |
| 122.0 | .4 | 1 | 0. | 0. | 1600 |
| 122.0 | .8 | 1 | 0. | 0. | 1600 |
| 122.0 | 1.5 | 1 | 0. | 0. | 1600 |
| 122.0 | 1.6 | 1 | 0. | 0. | 1600 |
| 122.0 | 3.1 | 1 | 0. | 0. | 1600 |
| 122.0 | 6.2 | 80 | 1.057E-07 | 2.008E-07 | 1600 |
| 122.0 | 9.3 | 1 | 0. | 0. | 1600 |
| 122.0 | 12.4 | 1 | 0. | 0. | 1600 |
| 122.0 | 15.5 | 1 | 0. | 0. | 1600 |
| 122.0 | 18.6 | 1 | 0. | 0. | 1600 |
| 122.0 | 21.7 | 30 | 3.963E-08 | 7.530E-08 | 1600 |
| 122.0 | 24.8 | 40 | 5.284E-08 | 1.004E-07 | 1600 |
| 122.0 | 31.0 | 10 | 1.321E-08 | 2.510E-08 | 1600 |
| 122.0 | 37.2 | 20 | 2.642E-08 | 5.020E-08 | 1600 |
| 122.0 | 43.4 | 60 | 7.926E-08 | 1.506E-07 | 1600 |
| 122.0 | 49.6 | 1 | 0. | 0. | 1600 |
| 122.0 | 55.8 | 1 | 0. | 0. | 1600 |
| 122.0 | 62.0 | 1 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 0 | 0. | 0. | 1600 |
| 130.0 | .4 | 8 | 1.134E-08 | 2.155E-08 | 1600 |
| 130.0 | .8 | 23 | 3.120E-08 | 5.927E-08 | 1600 |
| 130.0 | 1.5 | 0 | 0. | 0. | 1600 |
| 130.0 | 1.6 | 21 | 2.836E-08 | 5.388E-08 | 1600 |
| 130.0 | 3.1 | 153 | 2.030E-07 | 3.858E-07 | 1600 |
| 130.0 | 6.2 | 15 | 2.020E-08 | 3.837E-08 | 1600 |
| 130.0 | 9.3 | 6 | 8.694E-09 | 1.652E-08 | 1600 |
| 130.0 | 12.4 | 57 | 7.648E-08 | 1.453E-07 | 1600 |
| 130.0 | 15.5 | 5 | 7.021E-09 | 1.334E-08 | 1600 |
| 130.0 | 18.6 | 40 | 5.382E-08 | 1.023E-07 | 1600 |
| 130.0 | 21.7 | 19 | 2.578E-08 | 4.899E-08 | 1600 |
| 130.0 | 24.8 | 30 | 4.014E-08 | 7.627E-08 | 1600 |
| 130.0 | 31.0 | 6 | 8.688E-09 | 1.651E-08 | 1600 |
| 130.0 | 37.2 | 0 | 0. | 0. | 1600 |
| 130.0 | 43.4 | 47 | 6.241E-08 | 1.186E-07 | 1600 |
| 130.0 | 49.6 | 7 | 9.763E-09 | 1.855E-08 | 1600 |
| 130.0 | 55.8 | 0 | 0. | 0. | 1600 |
| 130.0 | 62.0 | 22 | 2.976E-08 | 5.654E-08 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .2 | 1 | 0. | 0. | 1600 |



D2 1202683

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 74 | 9.831E-08 | 1.868E-07 | 3200 |
| 98.0 | .4 | 76 | 1.010E-07 | 1.919E-07 | 3200 |
| 98.0 | .8 | 78 | 1.037E-07 | 1.970E-07 | 3200 |
| 98.0 | 1.5 | 60 | 7.952E-08 | 1.511E-07 | 3200 |
| 98.0 | 1.6 | 115 | 1.526E-07 | 2.900E-07 | 3200 |
| 98.0 | 3.1 | 145 | 1.924E-07 | 3.655E-07 | 3200 |
| 98.0 | 6.2 | 103 | 1.372E-07 | 2.607E-07 | 3200 |
| 98.0 | 9.3 | 12 | 1.714E-08 | 3.256E-08 | 3200 |
| 98.0 | 12.4 | 8 | 1.122E-08 | 2.131E-08 | 3200 |
| 98.0 | 15.5 | 6 | 8.501E-09 | 1.615E-08 | 3200 |
| 98.0 | 18.6 | 3 | 4.137E-09 | 7.861E-09 | 3200 |
| 98.0 | 21.7 | 3 | 4.027E-09 | 7.651E-09 | 3200 |
| 98.0 | 24.8 | 0 | 0. | 0. | 3200 |
| 98.0 | 31.0 | 2 | 3.764E-09 | 7.151E-09 | 3200 |
| 98.0 | 37.2 | 0 | 0. | 0. | 3200 |
| 98.0 | 43.4 | 0 | 0. | 0. | 3200 |
| 98.0 | 49.6 | 0 | 0. | 0. | 3200 |
| 98.0 | 55.8 | 0 | 0. | 0. | 3200 |
| 98.0 | 62.0 | 0 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 2227 | 2.942E-06 | 5.591E-06 | 3200 |
| 106.0 | .4 | 2628 | 3.472E-06 | 6.596E-06 | 3200 |
| 106.0 | .8 | 2717 | 3.590E-06 | 6.821E-06 | 3200 |
| 106.0 | 1.5 | 1141 | 1.508E-06 | 2.866E-06 | 3200 |
| 106.0 | 1.6 | 1810 | 2.392E-06 | 4.545E-06 | 3200 |
| 106.0 | 3.1 | 2232 | 2.949E-06 | 5.602E-06 | 3200 |
| 106.0 | 6.2 | 2294 | 3.031E-06 | 5.758E-06 | 3200 |
| 106.0 | 9.3 | 2711 | 3.582E-06 | 6.806E-06 | 3200 |
| 106.0 | 12.4 | 3019 | 3.989E-06 | 7.579E-06 | 3200 |
| 106.0 | 15.5 | 2428 | 3.208E-06 | 6.096E-06 | 3200 |
| 106.0 | 18.6 | 2008 | 2.653E-06 | 5.041E-06 | 3200 |
| 106.0 | 21.7 | 1497 | 1.978E-06 | 3.759E-06 | 3200 |
| 106.0 | 24.8 | 1088 | 1.437E-06 | 2.731E-06 | 3200 |
| 106.0 | 31.0 | 538 | 7.113E-07 | 1.351E-06 | 3200 |
| 106.0 | 37.2 | 258 | 3.415E-07 | 6.489E-07 | 3200 |
| 106.0 | 43.4 | 61 | 8.155E-08 | 1.549E-07 | 3200 |
| 106.0 | 49.6 | 0 | 0. | 0. | 3200 |
| 106.0 | 55.8 | 0 | 0. | 0. | 3200 |
| 106.0 | 62.0 | 0 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 1970 | 2.603E-06 | 4.946E-06 | 3200 |
| 114.0 | .4 | 1826 | 2.413E-06 | 4.585E-06 | 3200 |
| 114.0 | .8 | 2295 | 3.033E-06 | 5.762E-06 | 3200 |
| 114.0 | 1.5 | 1967 | 2.600E-06 | 4.939E-06 | 3200 |
| 114.0 | 1.6 | 2203 | 2.911E-06 | 5.532E-06 | 3200 |
| 114.0 | 3.1 | 2825 | 3.732E-06 | 7.091E-06 | 3200 |
| 114.0 | 6.2 | 2476 | 3.272E-06 | 6.216E-06 | 3200 |
| 114.0 | 9.3 | 2506 | 3.312E-06 | 6.292E-06 | 3200 |
| 114.0 | 12.4 | 1847 | 2.441E-06 | 4.638E-06 | 3200 |
| 114.0 | 15.5 | 1694 | 2.239E-06 | 4.254E-06 | 3200 |
| 114.0 | 18.6 | 1609 | 2.127E-06 | 4.040E-06 | 3200 |
| 114.0 | 21.7 | 1223 | 1.617E-06 | 3.072E-06 | 3200 |
| 114.0 | 24.8 | 984 | 1.300E-06 | 2.470E-06 | 3200 |
| 114.0 | 31.0 | 471 | 6.229E-07 | 1.183E-06 | 3200 |
| 114.0 | 37.2 | 167 | 2.214E-07 | 4.206E-07 | 3200 |
| 114.0 | 43.4 | 105 | 1.397E-07 | 2.654E-07 | 3200 |
| 114.0 | 49.6 | 29 | 3.884E-08 | 7.380E-08 | 3200 |
| 114.0 | 55.8 | 22 | 2.916E-08 | 5.540E-08 | 3200 |
| 114.0 | 62.0 | 11 | 1.541E-08 | 2.927E-08 | 3200 |

TOWER DATA FOLLOW....

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 50 | 6.605E-08 | 1.255E-07 | 3200 |
| 98.0 | .4 | 70 | 9.247E-08 | 1.757E-07 | 3200 |
| 98.0 | .8 | 70 | 9.247E-08 | 1.757E-07 | 3200 |
| 98.0 | 1.5 | 60 | 7.926E-08 | 1.506E-07 | 3200 |
| 98.0 | 1.6 | 70 | 9.247E-08 | 1.757E-07 | 3200 |
| 98.0 | 3.1 | 90 | 1.189E-07 | 2.259E-07 | 3200 |
| 98.0 | 6.2 | 60 | 7.926E-08 | 1.506E-07 | 3200 |
| 98.0 | 9.3 | 1 | 0. | 0. | 3200 |
| 98.0 | 12.4 | 1 | 0. | 0. | 3200 |
| 98.0 | 15.5 | 1 | 0. | 0. | 3200 |
| 98.0 | 18.6 | 1 | 0. | 0. | 3200 |
| 98.0 | 21.7 | 1 | 0. | 0. | 3200 |
| 98.0 | 24.8 | 1 | 0. | 0. | 3200 |
| 98.0 | 31.0 | 1 | 0. | 0. | 3200 |
| 98.0 | 37.2 | 1 | 0. | 0. | 3200 |
| 98.0 | 43.4 | 1 | 0. | 0. | 3200 |
| 98.0 | 49.6 | 1 | 0. | 0. | 3200 |
| 98.0 | 55.8 | 1 | 0. | 0. | 3200 |
| 98.0 | 62.0 | 1 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 3300 | 4.359E-06 | 8.283E-06 | 3200 |
| 106.0 | .4 | 3050 | 4.029E-06 | 7.655E-06 | 3200 |
| 106.0 | .8 | 3350 | 4.425E-06 | 8.408E-06 | 3200 |
| 106.0 | 1.5 | 2400 | 3.170E-06 | 6.024E-06 | 3200 |
| 106.0 | 1.6 | 2850 | 3.765E-06 | 7.153E-06 | 3200 |
| 106.0 | 3.1 | 4300 | 5.680E-06 | 1.079E-05 | 3200 |
| 106.0 | 6.2 | 3550 | 4.690E-06 | 8.910E-06 | 3200 |
| 106.0 | 9.3 | 3700 | 4.888E-06 | 9.287E-06 | 3200 |
| 106.0 | 12.4 | 3600 | 4.756E-06 | 9.036E-06 | 3200 |
| 106.0 | 15.5 | 2900 | 3.831E-06 | 7.279E-06 | 3200 |
| 106.0 | 18.6 | 2600 | 3.435E-06 | 6.526E-06 | 3200 |
| 106.0 | 21.7 | 2000 | 2.642E-06 | 5.020E-06 | 3200 |
| 106.0 | 24.8 | 2050 | 2.708E-06 | 5.145E-06 | 3200 |
| 106.0 | 31.0 | 680 | 8.983E-07 | 1.707E-06 | 3200 |
| 106.0 | 37.2 | 240 | 3.170E-07 | 6.024E-07 | 3200 |
| 106.0 | 43.4 | 90 | 1.189E-07 | 2.259E-07 | 3200 |
| 106.0 | 49.6 | 1 | 0. | 0. | 3200 |
| 106.0 | 55.8 | 1 | 0. | 0. | 3200 |
| 106.0 | 62.0 | 1 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 1750 | 2.312E-06 | 4.392E-06 | 3200 |
| 114.0 | .4 | 1750 | 2.312E-06 | 4.392E-06 | 3200 |
| 114.0 | .8 | 1580 | 2.087E-06 | 3.966E-06 | 3200 |
| 114.0 | 1.5 | 2350 | 3.104E-06 | 5.898E-06 | 3200 |
| 114.0 | 1.6 | 1660 | 2.193E-06 | 4.166E-06 | 3200 |
| 114.0 | 3.1 | 1650 | 2.180E-06 | 4.141E-06 | 3200 |
| 114.0 | 6.2 | 2040 | 2.695E-06 | 5.120E-06 | 3200 |
| 114.0 | 9.3 | 2230 | 2.946E-06 | 5.597E-06 | 3200 |
| 114.0 | 12.4 | 1830 | 2.417E-06 | 4.593E-06 | 3200 |
| 114.0 | 15.5 | 1760 | 2.325E-06 | 4.417E-06 | 3200 |
| 114.0 | 18.6 | 1700 | 2.246E-06 | 4.267E-06 | 3200 |
| 114.0 | 21.7 | 1650 | 2.180E-06 | 4.141E-06 | 3200 |
| 114.0 | 24.8 | 1350 | 1.783E-06 | 3.388E-06 | 3200 |
| 114.0 | 31.0 | 1050 | 1.387E-06 | 2.635E-06 | 3200 |
| 114.0 | 37.2 | 740 | 9.775E-07 | 1.857E-06 | 3200 |
| 114.0 | 43.4 | 570 | 7.530E-07 | 1.431E-06 | 3200 |
| 114.0 | 49.6 | 240 | 3.170E-07 | 6.024E-07 | 3200 |
| 114.0 | 55.8 | 80 | 1.057E-07 | 2.008E-07 | 3200 |
| 114.0 | 62.0 | 50 | 6.605E-08 | 1.255E-07 | 3200 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 0 | 0. | 0. | 3200 |
| 122.0 | .4 | 0 | 0. | 0. | 3200 |
| 122.0 | .8 | 0 | 0. | 0. | 3200 |
| 122.0 | 1.5 | 0 | 0. | 0. | 3200 |
| 122.0 | 1.6 | 0 | 0. | 0. | 3200 |
| 122.0 | 3.1 | 17 | 2.309E-08 | 4.386E-08 | 3200 |
| 122.0 | 6.2 | 22 | 2.950E-08 | 5.605E-08 | 3200 |
| 122.0 | 9.3 | 25 | 3.305E-08 | 6.280E-08 | 3200 |
| 122.0 | 12.4 | 16 | 2.131E-08 | 4.049E-08 | 3200 |
| 122.0 | 15.5 | 1 | 2.125E-09 | 4.038E-09 | 3200 |
| 122.0 | 18.6 | 7 | 9.309E-09 | 1.769E-08 | 3200 |
| 122.0 | 21.7 | 11 | 1.510E-08 | 2.869E-08 | 3200 |
| 122.0 | 24.8 | 8 | 1.176E-08 | 2.234E-08 | 3200 |
| 122.0 | 31.0 | 2 | 3.764E-09 | 7.151E-09 | 3200 |
| 122.0 | 37.2 | 1 | 1.807E-09 | 3.433E-09 | 3200 |
| 122.0 | 43.4 | 13 | 1.735E-08 | 3.297E-08 | 3200 |
| 122.0 | 49.6 | 5 | 6.755E-09 | 1.283E-08 | 3200 |
| 122.0 | 55.8 | 6 | 8.331E-09 | 1.583E-08 | 3200 |
| N 122.0 | 62.0 | 0 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 122.0 | .2 | 1 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 0 | 0. | 0. | 3200 |
| 130.0 | .4 | 0 | 0. | 0. | 3200 |
| 130.0 | .8 | 4 | 5.387E-09 | 1.023E-08 | 3200 |
| 130.0 | 1.5 | 0 | 0. | 0. | 3200 |
| 130.0 | 1.6 | 0 | 0. | 0. | 3200 |
| 130.0 | 3.1 | 19 | 2.565E-08 | 4.874E-08 | 3200 |
| 130.0 | 6.2 | 19 | 2.565E-08 | 4.874E-08 | 3200 |
| 130.0 | 9.3 | 6 | 8.570E-09 | 1.628E-08 | 3200 |
| 130.0 | 12.4 | 6 | 8.974E-09 | 1.705E-08 | 3200 |
| 130.0 | 15.5 | 0 | 0. | 0. | 3200 |
| 130.0 | 18.6 | 0 | 0. | 0. | 3200 |
| 130.0 | 21.7 | 0 | 0. | 0. | 3200 |
| 130.0 | 24.8 | 0 | 0. | 0. | 3200 |
| 130.0 | 31.0 | 12 | 1.694E-08 | 3.218E-08 | 3200 |
| 130.0 | 37.2 | 12 | 1.626E-08 | 3.090E-08 | 3200 |
| 130.0 | 43.4 | 6 | 8.676E-09 | 1.648E-08 | 3200 |
| 130.0 | 49.6 | 0 | 0. | 0. | 3200 |
| 130.0 | 55.8 | 0 | 0. | 0. | 3200 |
| 130.0 | 62.0 | 0 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .2 | 1 | 0. | 0. | 3200 |

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. 200M ARC EXTRAPOLATED AT BOTH EDGES. FLAT OR MULTI-MODE CROSSWIND DISTRIBUTIONS ON ALL ARCS. INVALID SAMPLES ABOVE 4.2M LEVEL ON TOWER AT 122 DEG ON 800M ARC. VERTICAL DISTRIBUTION OF TRACERS ON ALL 20 TOWERS: PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 58.0 | 28 | 2.713E-08 | 7.053E-08 | 200 |
| E 60.0 | 155 | 1.492E-07 | 3.879E-07 | 200 |
| E 62.0 | 706 | 6.782E-07 | 1.763E-06 | 200 |
| E 64.0 | 2402 | 2.306E-06 | 5.995E-06 | 200 |
| E 66.0 | 8480 | 8.139E-06 | 2.116E-05 | 200 |
| B 68.0 | 27764 | 2.665E-05 | 6.928E-05 | 200 |
| 70.0 | 69638 | 6.683E-05 | 1.738E-04 | 200 |
| 72.0 | 86364 | 8.288E-05 | 2.155E-04 | 200 |
| 74.0 | 83348 | 7.999E-05 | 2.080E-04 | 200 |
| 76.0 | 77262 | 7.415E-05 | 1.928E-04 | 200 |
| 78.0 | 75114 | 7.209E-05 | 1.874E-04 | 200 |
| 80.0 | 73367 | 7.041E-05 | 1.831E-04 | 200 |
| 82.0 | 74254 | 7.126E-05 | 1.853E-04 | 200 |
| 84.0 | 55105 | 5.288E-05 | 1.375E-04 | 200 |
| 86.0 | 51877 | 4.979E-05 | 1.294E-04 | 200 |
| 88.0 | 52708 | 5.058E-05 | 1.315E-04 | 200 |
| 90.0 | 63348 | 6.080E-05 | 1.581E-04 | 200 |
| 92.0 | 78308 | 7.515E-05 | 1.954E-04 | 200 |
| 94.0 | 56103 | 5.384E-05 | 1.400E-04 | 200 |
| 96.0 | 52454 | 5.034E-05 | 1.309E-04 | 200 |
| 98.0 | 30425 | 2.920E-05 | 7.592E-05 | 200 |
| 100.0 | 35781 | 3.434E-05 | 8.928E-05 | 200 |
| 102.0 | 25449 | 2.442E-05 | 6.350E-05 | 200 |
| 104.0 | 20932 | 2.009E-05 | 5.223E-05 | 200 |
| 106.0 | 16794 | 1.612E-05 | 4.190E-05 | 200 |
| 108.0 | 17811 | 1.709E-05 | 4.444E-05 | 200 |
| 110.0 | 11284 | 1.083E-05 | 2.816E-05 | 200 |
| 112.0 | 14199 | 1.363E-05 | 3.543E-05 | 200 |
| 114.0 | 21011 | 2.016E-05 | 5.243E-05 | 200 |
| 116.0 | 16616 | 1.595E-05 | 4.146E-05 | 200 |
| 118.0 | 20403 | 1.958E-05 | 5.091E-05 | 200 |
| 120.0 | 15081 | 1.447E-05 | 3.763E-05 | 200 |
| 122.0 | 16076 | 1.543E-05 | 4.011E-05 | 200 |
| 124.0 | 20593 | 1.976E-05 | 5.138E-05 | 200 |
| 126.0 | 13647 | 1.310E-05 | 3.405E-05 | 200 |
| 128.0 | 23007 | 2.208E-05 | 5.741E-05 | 200 |
| 130.0 | 20401 | 1.958E-05 | 5.090E-05 | 200 |
| 132.0 | 32550 | 3.124E-05 | 8.122E-05 | 200 |
| 134.0 | 19914 | 1.911E-05 | 4.969E-05 | 200 |
| 136.0 | 10597 | 1.017E-05 | 2.644E-05 | 200 |
| 138.0 | 14741 | 1.415E-05 | 3.678E-05 | 200 |
| 140.0 | 18379 | 1.764E-05 | 4.586E-05 | 200 |
| 142.0 | 19954 | 1.915E-05 | 4.979E-05 | 200 |
| 144.0 | 20596 | 1.977E-05 | 5.139E-05 | 200 |
| 146.0 | 16245 | 1.559E-05 | 4.054E-05 | 200 |
| 148.0 | 17698 | 1.699E-05 | 4.416E-05 | 200 |
| S 150.0 | 19298 | 1.852E-05 | 4.815E-05 | 200 |
| 152.0 | 20892 | 2.005E-05 | 5.213E-05 | 200 |
| 154.0 | 22654 | 2.174E-05 | 5.653E-05 | 200 |
| 156.0 | 24336 | 2.336E-05 | 6.072E-05 | 200 |
| B 158.0 | 32050 | 3.076E-05 | 7.997E-05 | 200 |
| E 160.0 | 33921 | 3.255E-05 | 8.464E-05 | 200 |
| E 162.0 | 33921 | 3.255E-05 | 8.464E-05 | 200 |
| E 164.0 | 32508 | 3.120E-05 | 8.111E-05 | 200 |
| E 166.0 | 29681 | 2.849E-05 | 7.406E-05 | 200 |
| E 168.0 | 25441 | 2.442E-05 | 6.348E-05 | 200 |
| E 170.0 | 19222 | 1.845E-05 | 4.796E-05 | 200 |
| E 172.0 | 11872 | 1.139E-05 | 2.962E-05 | 200 |
| E 174.0 | 5936 | 5.697E-06 | 1.481E-05 | 200 |
| E 176.0 | 2544 | 2.442E-06 | 6.348E-06 | 200 |
| E 178.0 | 932 | 8.952E-07 | 2.328E-06 | 200 |
| E 180.0 | 367 | 3.527E-07 | 9.170E-07 | 200 |
| E 182.0 | 113 | 1.085E-07 | 2.821E-07 | 200 |
| E 184.0 | 22 | 2.170E-08 | 5.643E-08 | 200 |
| CROSSWIND INTEGRATED= | | 1.216E-02 SEC/SQ.M | 3.161E-02 1/M | |

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 58.0 | 11 | 1.066E-08 | 2.772E-08 | 200 |
| E 60.0 | 122 | 1.173E-07 | 3.049E-07 | 200 |
| E 62.0 | 51 | 4.975E-08 | 1.293E-07 | 200 |
| E 64.0 | 3173 | 3.045E-06 | 7.918E-06 | 200 |
| E 66.0 | 13281 | 1.275E-05 | 3.314E-05 | 200 |
| B 68.0 | 34968 | 3.356E-05 | 8.725E-05 | 200 |
| 70.0 | 64738 | 6.213E-05 | 1.615E-04 | 200 |
| 72.0 | 78134 | 7.499E-05 | 1.950E-04 | 200 |
| 74.0 | 109392 | 1.050E-04 | 2.730E-04 | 200 |
| 76.0 | 82599 | 7.927E-05 | 2.061E-04 | 200 |
| 78.0 | 120556 | 1.157E-04 | 3.008E-04 | 200 |
| 80.0 | 89298 | 8.570E-05 | 2.228E-04 | 200 |
| 82.0 | 98228 | 9.427E-05 | 2.451E-04 | 200 |
| 84.0 | 84832 | 8.141E-05 | 2.117E-04 | 200 |
| 86.0 | 51341 | 4.927E-05 | 1.281E-04 | 200 |
| 88.0 | 78134 | 7.499E-05 | 1.950E-04 | 200 |
| 90.0 | 89298 | 8.570E-05 | 2.228E-04 | 200 |
| 92.0 | 113854 | 1.093E-04 | 2.841E-04 | 200 |
| 94.0 | 71436 | 6.856E-05 | 1.782E-04 | 200 |
| 96.0 | 91530 | 8.784E-05 | 2.284E-04 | 200 |
| 98.0 | 51341 | 4.927E-05 | 1.281E-04 | 200 |
| 100.0 | 43743 | 4.198E-05 | 1.091E-04 | 200 |
| 102.0 | 34768 | 3.337E-05 | 8.675E-05 | 200 |
| 104.0 | 33424 | 3.208E-05 | 8.340E-05 | 200 |
| 106.0 | 17250 | 1.656E-05 | 4.304E-05 | 200 |
| 108.0 | 20205 | 1.939E-05 | 5.042E-05 | 200 |
| 110.0 | 13285 | 1.275E-05 | 3.315E-05 | 200 |
| 112.0 | 18650 | 1.790E-05 | 4.654E-05 | 200 |
| 114.0 | 24571 | 2.357E-05 | 6.206E-05 | 200 |
| 116.0 | 19426 | 1.864E-05 | 4.848E-05 | 200 |
| 118.0 | 27981 | 2.685E-05 | 6.982E-05 | 200 |
| 120.0 | 24371 | 2.387E-05 | 6.206E-05 | 200 |
| 122.0 | 20983 | 2.014E-05 | 5.236E-05 | 200 |
| 124.0 | 22533 | 2.163E-05 | 5.624E-05 | 200 |
| 126.0 | 15151 | 1.454E-05 | 3.781E-05 | 200 |
| 128.0 | 29546 | 2.835E-05 | 7.370E-05 | 200 |
| 130.0 | 19428 | 1.864E-05 | 4.848E-05 | 200 |
| 132.0 | 31091 | 2.984E-05 | 7.758E-05 | 200 |
| 134.0 | 17017 | 1.633E-05 | 4.246E-05 | 200 |
| 136.0 | 18183 | 1.745E-05 | 4.537E-05 | 200 |
| 138.0 | 16317 | 1.566E-05 | 4.072E-05 | 200 |
| 140.0 | 11419 | 1.095E-05 | 2.849E-05 | 200 |
| 142.0 | 17017 | 1.633E-05 | 4.246E-05 | 200 |
| 144.0 | 21760 | 2.088E-05 | 5.430E-05 | 200 |
| 146.0 | 21760 | 2.088E-05 | 5.430E-05 | 200 |
| 148.0 | 23315 | 2.238E-05 | 5.816E-05 | 200 |
| S 150.0 | 20903 | 2.014E-05 | 5.236E-05 | 200 |
| 152.0 | 15551 | 1.521E-05 | 3.955E-05 | 200 |
| 154.0 | 24671 | 2.387E-05 | 6.206E-05 | 200 |
| 156.0 | 21760 | 2.088E-05 | 5.430E-05 | 200 |
| B 158.0 | 28758 | 2.760E-05 | 7.176E-05 | 200 |
| E 160.0 | 31091 | 2.984E-05 | 7.758E-05 | 200 |
| E 162.0 | 31091 | 2.984E-05 | 7.758E-05 | 200 |
| E 164.0 | 26426 | 2.535E-05 | 6.594E-05 | 200 |
| E 166.0 | 18650 | 1.790E-05 | 4.654E-05 | 200 |
| E 168.0 | 13207 | 1.268E-05 | 3.296E-05 | 200 |
| E 170.0 | 7453 | 7.153E-06 | 1.860E-05 | 200 |
| E 172.0 | 4098 | 3.934E-06 | 1.023E-05 | 200 |
| E 174.0 | 1840 | 1.766E-06 | 4.592E-06 | 200 |
| E 176.0 | 607 | 5.828E-07 | 1.515E-06 | 200 |
| E 178.0 | 132 | 1.276E-07 | 3.317E-07 | 200 |
| E 180.0 | 30 | 2.949E-08 | 7.669E-08 | 200 |
| E 182.0 | 5 | 4.975E-09 | 1.293E-08 | 200 |
| CROSSWIND INTEGRATED= | | 1.432E-02 SEC/SQ.M | 3.723E-02 1/M | |



1202686

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
BOOM ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 76.0 | 0 | 0. | 0. | 800 |
| | 78.0 | 158 | 1.522E-07 | 3.957E-07 | 800 |
| | 80.0 | 596 | 5.721E-07 | 1.487E-06 | 800 |
| | 82.0 | 3308 | 3.175E-06 | 8.256E-06 | 800 |
| | 84.0 | 7385 | 7.088E-06 | 1.843E-05 | 800 |
| | 86.0 | 12690 | 1.218E-05 | 3.167E-05 | 800 |
| | 88.0 | 10656 | 1.023E-05 | 2.659E-05 | 800 |
| | 90.0 | 8063 | 7.739E-06 | 2.012E-05 | 800 |
| | 92.0 | 6220 | 5.970E-06 | 1.552E-05 | 800 |
| | 94.0 | 3814 | 3.661E-06 | 9.518E-06 | 800 |
| | 96.0 | 3770 | 3.619E-06 | 9.409E-06 | 800 |
| | 98.0 | 2586 | 2.483E-06 | 6.455E-06 | 800 |
| | 100.0 | 2411 | 2.315E-06 | 6.018E-06 | 800 |
| | 102.0 | 1462 | 1.404E-06 | 3.650E-06 | 800 |
| | 104.0 | 910 | 8.739E-07 | 2.272E-06 | 800 |
| | 106.0 | 1725 | 1.656E-06 | 4.305E-06 | 800 |
| | 108.0 | 1791 | 1.719E-06 | 4.469E-06 | 800 |
| | 110.0 | 2597 | 2.493E-06 | 6.482E-06 | 800 |
| | 112.0 | 3511 | 3.369E-06 | 8.761E-06 | 800 |
| | 114.0 | 3784 | 3.632E-06 | 9.443E-06 | 800 |
| | 116.0 | 4459 | 4.280E-06 | 1.113E-05 | 800 |
| | 118.0 | 5036 | 4.834E-06 | 1.257E-05 | 800 |
| | 120.0 | 4662 | 4.474E-06 | 1.163E-05 | 800 |
| | 122.0 | 5318 | 5.104E-06 | 1.327E-05 | 800 |
| | 124.0 | 5099 | 4.894E-06 | 1.272E-05 | 800 |
| | 126.0 | 4511 | 4.330E-06 | 1.126E-05 | 800 |
| | 128.0 | 4536 | 4.354E-06 | 1.132E-05 | 800 |
| | 130.0 | 4872 | 4.676E-06 | 1.216E-05 | 800 |
| | 132.0 | 5425 | 5.206E-06 | 1.354E-05 | 800 |
| | 134.0 | 5493 | 5.272E-06 | 1.371E-05 | 800 |
| | 136.0 | 5277 | 5.065E-06 | 1.317E-05 | 800 |
| | 138.0 | 4186 | 4.018E-06 | 1.045E-05 | 800 |
| | 140.0 | 4809 | 4.616E-06 | 1.200E-05 | 800 |
| | 142.0 | 4443 | 4.264E-06 | 1.109E-05 | 800 |
| | 144.0 | 5873 | 5.637E-06 | 1.466E-05 | 800 |
| | 146.0 | 6860 | 6.584E-06 | 1.712E-05 | 800 |
| | 148.0 | 5561 | 5.338E-06 | 1.388E-05 | 800 |
| | 150.0 | 6860 | 6.584E-06 | 1.712E-05 | 800 |
| | 152.0 | 5403 | 5.185E-06 | 1.348E-05 | 800 |
| | 154.0 | 4793 | 4.600E-06 | 1.196E-05 | 800 |
| | 156.0 | 3647 | 3.501E-06 | 9.102E-06 | 800 |
| | 158.0 | 1402 | 1.346E-06 | 3.500E-06 | 800 |
| B | 160.0 | 412 | 3.963E-07 | 1.030E-06 | 800 |
| E | 162.0 | 120 | 1.155E-07 | 3.002E-07 | 800 |
| E | 164.0 | 32 | 3.149E-08 | 8.188E-08 | 800 |
| E | 166.0 | 5 | 5.248E-09 | 1.365E-08 | 800 |

CROSSWIND INTEGRATED= 5.000E-03 SEC/SQ.M 1.300E-02 1/M

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
BOOM ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 76.0 | 0 | 0. | 0. | 800 |
| | 78.0 | 52 | 5.053E-08 | 1.314E-07 | 800 |
| | 80.0 | 1421 | 1.365E-06 | 3.548E-06 | 800 |
| | 82.0 | 4953 | 4.754E-06 | 1.236E-05 | 800 |
| | 84.0 | 11722 | 1.125E-05 | 2.925E-05 | 800 |
| | 86.0 | 15558 | 1.493E-05 | 3.882E-05 | 800 |
| | 88.0 | 14430 | 1.385E-05 | 3.601E-05 | 800 |
| | 90.0 | 10369 | 9.951E-06 | 2.587E-05 | 800 |
| | 92.0 | 7435 | 7.136E-06 | 1.855E-05 | 800 |
| | 94.0 | 5479 | 5.259E-06 | 1.367E-05 | 800 |
| | 96.0 | 4577 | 4.393E-06 | 1.142E-05 | 800 |
| E | 98.0 | 1780 | 1.708E-06 | 4.442E-06 | 800 |
| E | 100.0 | 1278 | 1.227E-06 | 3.191E-06 | 800 |
| | 102.0 | 2711 | 2.602E-06 | 6.765E-06 | 800 |
| | 104.0 | 1314 | 1.262E-06 | 3.280E-06 | 800 |
| | 106.0 | 2639 | 2.533E-06 | 6.587E-06 | 800 |
| | 108.0 | 2890 | 2.774E-06 | 7.212E-06 | 800 |
| | 110.0 | 3033 | 2.911E-06 | 7.570E-06 | 800 |
| | 112.0 | 4577 | 4.393E-06 | 1.142E-05 | 800 |
| | 114.0 | 6984 | 6.703E-06 | 1.743E-05 | 800 |
| | 116.0 | 5856 | 5.620E-06 | 1.461E-05 | 800 |
| | 118.0 | 5780 | 5.548E-06 | 1.442E-05 | 800 |
| | 120.0 | 7661 | 7.352E-06 | 1.912E-05 | 800 |
| | 122.0 | 9466 | 9.085E-06 | 2.362E-05 | 800 |
| | 124.0 | 8112 | 7.786E-06 | 2.024E-05 | 800 |
| | 126.0 | 16235 | 1.558E-05 | 4.051E-05 | 800 |
| | 128.0 | 4953 | 4.754E-06 | 1.236E-05 | 800 |
| | 130.0 | 5555 | 5.331E-06 | 1.386E-05 | 800 |
| | 132.0 | 6984 | 6.703E-06 | 1.743E-05 | 800 |
| | 134.0 | 6533 | 6.270E-06 | 1.630E-05 | 800 |
| | 136.0 | 5254 | 5.043E-06 | 1.311E-05 | 800 |
| | 138.0 | 5103 | 4.898E-06 | 1.274E-05 | 800 |
| | 140.0 | 4126 | 3.960E-06 | 1.030E-05 | 800 |
| | 142.0 | 5931 | 5.692E-06 | 1.480E-05 | 800 |
| | 144.0 | 7886 | 7.569E-06 | 1.968E-05 | 800 |
| | 146.0 | 7661 | 7.352E-06 | 1.912E-05 | 800 |
| E | 148.0 | 7661 | 7.352E-06 | 1.912E-05 | 800 |
| | 150.0 | 7886 | 7.569E-06 | 1.968E-05 | 800 |
| | 152.0 | 6984 | 6.703E-06 | 1.743E-05 | 800 |
| | 154.0 | 6081 | 5.837E-06 | 1.518E-05 | 800 |
| | 156.0 | 4502 | 4.321E-06 | 1.123E-05 | 800 |
| | 158.0 | 1708 | 1.640E-06 | 4.263E-06 | 800 |
| B | 160.0 | 333 | 3.197E-07 | 8.311E-07 | 800 |
| E | 162.0 | 103 | 9.968E-08 | 2.592E-07 | 800 |
| E | 164.0 | 14 | 1.375E-08 | 3.575E-08 | 800 |
| E | 166.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 6.743E-03 SEC/SQ.M 1.753E-02 1/M



D3 1202687

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 83.0 | 0 | 0. | 0. | 1600 |
| 84.0 | 29 | 2.822E-08 | 7.336E-08 | 1600 |
| 85.0 | 21 | 2.069E-08 | 5.380E-08 | 1600 |
| 86.0 | 58 | 5.643E-08 | 1.467E-07 | 1600 |
| 87.0 | 25 | 2.445E-08 | 6.358E-08 | 1600 |
| 88.0 | 56 | 5.455E-08 | 1.418E-07 | 1600 |
| 89.0 | 74 | 7.148E-08 | 1.859E-07 | 1600 |
| 90.0 | 121 | 1.166E-07 | 3.032E-07 | 1600 |
| 91.0 | 889 | 8.540E-07 | 2.220E-06 | 1600 |
| 92.0 | 1340 | 1.287E-06 | 3.345E-06 | 1600 |
| 93.0 | 2606 | 2.502E-06 | 6.505E-06 | 1600 |
| 94.0 | 3751 | 3.600E-06 | 9.361E-06 | 1600 |
| 95.0 | 4196 | 4.027E-06 | 1.047E-05 | 1600 |
| 96.0 | 4582 | 4.398E-06 | 1.143E-05 | 1600 |
| 97.0 | 4386 | 4.210E-06 | 1.095E-05 | 1600 |
| 98.0 | 3265 | 3.134E-06 | 8.148E-06 | 1600 |
| 99.0 | 3965 | 3.805E-06 | 9.894E-06 | 1600 |
| 100.0 | 3669 | 3.521E-06 | 9.156E-06 | 1600 |
| 101.0 | 3783 | 3.631E-06 | 9.439E-06 | 1600 |
| 102.0 | 3579 | 3.435E-06 | 8.931E-06 | 1600 |
| 103.0 | 3496 | 3.356E-06 | 8.725E-06 | 1600 |
| 104.0 | 3541 | 3.399E-06 | 8.838E-06 | 1600 |
| 105.0 | 4392 | 4.216E-06 | 1.096E-05 | 1600 |
| 106.0 | 4051 | 3.888E-06 | 1.011E-05 | 1600 |
| 107.0 | 3063 | 2.940E-06 | 7.644E-06 | 1600 |
| 108.0 | 4682 | 4.494E-06 | 1.168E-05 | 1600 |
| 109.0 | 4557 | 4.374E-06 | 1.137E-05 | 1600 |
| 110.0 | 4394 | 4.217E-06 | 1.097E-05 | 1600 |
| 111.0 | 5213 | 5.004E-06 | 1.301E-05 | 1600 |
| 112.0 | 4674 | 4.486E-06 | 1.166E-05 | 1600 |
| 113.0 | 3343 | 3.209E-06 | 8.344E-06 | 1600 |
| 114.0 | 2785 | 2.673E-06 | 6.950E-06 | 1600 |
| 115.0 | 3847 | 3.693E-06 | 9.601E-06 | 1600 |
| 116.0 | 3608 | 3.463E-06 | 9.004E-06 | 1600 |
| 117.0 | 3306 | 3.173E-06 | 8.251E-06 | 1600 |
| 118.0 | 2693 | 2.585E-06 | 6.720E-06 | 1600 |
| 119.0 | 2697 | 2.588E-06 | 6.730E-06 | 1600 |
| 120.0 | 2095 | 2.011E-06 | 5.228E-06 | 1600 |
| 121.0 | 1779 | 1.708E-06 | 4.441E-06 | 1600 |
| 122.0 | 1454 | 1.396E-06 | 3.629E-06 | 1600 |
| 123.0 | 1376 | 1.321E-06 | 3.433E-06 | 1600 |
| 124.0 | 1442 | 1.385E-06 | 3.600E-06 | 1600 |
| 125.0 | 1528 | 1.467E-06 | 3.815E-06 | 1600 |
| 126.0 | 1595 | 1.531E-06 | 3.981E-06 | 1600 |
| 127.0 | 1301 | 1.249E-06 | 3.248E-06 | 1600 |
| 128.0 | 2120 | 2.035E-06 | 5.292E-06 | 1600 |
| 129.0 | 1885 | 1.810E-06 | 4.705E-06 | 1600 |
| 130.0 | 2205 | 2.116E-06 | 5.502E-06 | 1600 |
| 131.0 | 2060 | 1.977E-06 | 5.140E-06 | 1600 |
| 132.0 | 2326 | 2.233E-06 | 5.806E-06 | 1600 |
| 133.0 | 2169 | 2.082E-06 | 5.414E-06 | 1600 |
| 134.0 | 2630 | 2.524E-06 | 6.564E-06 | 1600 |
| 135.0 | 2657 | 2.551E-06 | 6.632E-06 | 1600 |
| 136.0 | 2608 | 2.504E-06 | 6.510E-06 | 1600 |
| 137.0 | 2481 | 2.381E-06 | 6.192E-06 | 1600 |
| 138.0 | 2603 | 2.498E-06 | 6.495E-06 | 1600 |
| 139.0 | 2436 | 2.338E-06 | 6.079E-06 | 1600 |
| 140.0 | 2897 | 2.780E-06 | 7.229E-06 | 1600 |
| 141.0 | 3367 | 3.232E-06 | 8.403E-06 | 1600 |
| 142.0 | 2975 | 2.856E-06 | 7.424E-06 | 1600 |
| 143.0 | 3392 | 3.256E-06 | 8.466E-06 | 1600 |
| 144.0 | 3012 | 2.891E-06 | 7.517E-06 | 1600 |
| 145.0 | 3134 | 3.008E-06 | 7.821E-06 | 1600 |
| 146.0 | 2632 | 2.526E-06 | 6.568E-06 | 1600 |
| 147.0 | 2473 | 2.374E-06 | 6.172E-06 | 1600 |
| 148.0 | 1864 | 1.789E-06 | 4.651E-06 | 1600 |
| 149.0 | 2136 | 2.050E-06 | 5.331E-06 | 1600 |
| 150.0 | 1270 | 1.219E-06 | 3.169E-06 | 1600 |
| 151.0 | 1031 | 9.895E-07 | 2.573E-06 | 1600 |
| 152.0 | 758 | 7.280E-07 | 1.893E-06 | 1600 |
| 153.0 | 482 | 4.628E-07 | 1.203E-06 | 1600 |
| E 154.0 | 248 | 2.389E-07 | 6.211E-07 | 1600 |
| E 155.0 | 150 | 1.448E-07 | 3.766E-07 | 1600 |
| E 156.0 | 90 | 8.653E-08 | 2.250E-07 | 1600 |
| E 157.0 | 47 | 4.515E-08 | 1.174E-07 | 1600 |
| E 158.0 | 21 | 2.069E-08 | 5.380E-08 | 1600 |
| E 159.0 | 7 | 7.524E-09 | 1.956E-08 | 1600 |
| E 160.0 | 3 | 3.762E-09 | 9.782E-09 | 1600 |

CROSSWIND INTEGRATED= 4.757E-03 SEC/SQ.M 1.237E-02 1/M

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 83.0 | 1 | 1.360E-09 | 3.536E-09 | 1600 |
| 84.0 | 21 | 2.040E-08 | 5.304E-08 | 1600 |
| 85.0 | 8 | 8.387E-09 | 2.181E-08 | 1600 |
| 86.0 | 5 | 5.440E-09 | 1.415E-08 | 1600 |
| 87.0 | 14 | 1.428E-08 | 3.713E-08 | 1600 |
| 88.0 | 51 | 4.987E-08 | 1.297E-07 | 1600 |
| 89.0 | 26 | 2.516E-08 | 6.542E-08 | 1600 |
| 90.0 | 226 | 2.176E-07 | 5.658E-07 | 1600 |
| 91.0 | 545 | 5.236E-07 | 1.361E-06 | 1600 |
| 92.0 | 2000 | 1.920E-06 | 4.992E-06 | 1600 |
| 93.0 | 2820 | 2.707E-06 | 7.037E-06 | 1600 |
| 94.0 | 4159 | 3.992E-06 | 1.038E-05 | 1600 |
| 95.0 | 4754 | 4.563E-06 | 1.186E-05 | 1600 |
| 96.0 | 5052 | 4.849E-06 | 1.261E-05 | 1600 |
| 97.0 | 5647 | 5.420E-06 | 1.409E-05 | 1600 |
| 98.0 | 7731 | 7.419E-06 | 1.929E-05 | 1600 |
| 99.0 | 5052 | 4.849E-06 | 1.261E-05 | 1600 |
| 100.0 | 4457 | 4.278E-06 | 1.112E-05 | 1600 |
| 101.0 | 3861 | 3.706E-06 | 9.636E-06 | 1600 |
| 102.0 | 2572 | 2.469E-06 | 6.418E-06 | 1600 |
| 103.0 | 3266 | 3.135E-06 | 8.151E-06 | 1600 |
| 104.0 | 3167 | 3.040E-06 | 7.904E-06 | 1600 |
| 105.0 | 4010 | 3.849E-06 | 1.001E-05 | 1600 |
| 106.0 | 4606 | 4.420E-06 | 1.149E-05 | 1600 |
| 107.0 | 2919 | 2.802E-06 | 7.285E-06 | 1600 |
| 108.0 | 4903 | 4.706E-06 | 1.224E-05 | 1600 |
| 109.0 | 4903 | 4.706E-06 | 1.224E-05 | 1600 |
| 110.0 | 4457 | 4.278E-06 | 1.112E-05 | 1600 |
| 111.0 | 4159 | 3.992E-06 | 1.038E-05 | 1600 |
| 112.0 | 4308 | 4.135E-06 | 1.075E-05 | 1600 |
| 113.0 | 5052 | 4.849E-06 | 1.261E-05 | 1600 |
| 114.0 | 3713 | 3.564E-06 | 9.265E-06 | 1600 |
| 115.0 | 3117 | 2.992E-06 | 7.780E-06 | 1600 |
| 116.0 | 3564 | 3.421E-06 | 8.894E-06 | 1600 |
| 117.0 | 4308 | 4.135E-06 | 1.075E-05 | 1600 |
| 118.0 | 2621 | 2.516E-06 | 6.542E-06 | 1600 |
| 119.0 | 2423 | 2.326E-06 | 6.047E-06 | 1600 |
| 120.0 | 2125 | 2.040E-06 | 5.304E-06 | 1600 |
| 121.0 | 1877 | 1.802E-06 | 4.686E-06 | 1600 |
| 122.0 | 1551 | 1.489E-06 | 3.872E-06 | 1600 |
| 123.0 | 1339 | 1.285E-06 | 3.342E-06 | 1600 |
| 124.0 | 1526 | 1.467E-06 | 3.813E-06 | 1600 |
| 125.0 | 1811 | 1.739E-06 | 4.521E-06 | 1600 |
| 126.0 | 2071 | 1.988E-06 | 5.169E-06 | 1600 |
| 127.0 | 1410 | 1.353E-06 | 3.519E-06 | 1600 |
| 128.0 | 2213 | 2.124E-06 | 5.523E-06 | 1600 |
| 129.0 | 1835 | 1.761E-06 | 4.580E-06 | 1600 |
| 130.0 | 1764 | 1.693E-06 | 4.403E-06 | 1600 |
| 131.0 | 1858 | 1.784E-06 | 4.638E-06 | 1600 |
| 132.0 | 2307 | 2.215E-06 | 5.758E-06 | 1600 |
| 133.0 | 1740 | 1.671E-06 | 4.344E-06 | 1600 |
| 134.0 | 2071 | 1.988E-06 | 5.169E-06 | 1600 |
| 135.0 | 2820 | 2.707E-06 | 7.037E-06 | 1600 |
| 136.0 | 2307 | 2.215E-06 | 5.758E-06 | 1600 |
| 137.0 | 2320 | 2.787E-06 | 7.037E-06 | 1600 |
| 138.0 | 2770 | 2.659E-06 | 6.913E-06 | 1600 |
| 139.0 | 2373 | 2.278E-06 | 5.923E-06 | 1600 |
| 140.0 | 2621 | 2.516E-06 | 6.542E-06 | 1600 |
| 141.0 | 2919 | 2.802E-06 | 7.285E-06 | 1600 |
| 142.0 | 2572 | 2.469E-06 | 6.418E-06 | 1600 |
| 143.0 | 3069 | 2.945E-06 | 7.656E-06 | 1600 |
| 144.0 | 2373 | 2.278E-06 | 5.923E-06 | 1600 |
| 145.0 | 2671 | 2.564E-06 | 6.666E-06 | 1600 |
| 146.0 | 2671 | 2.564E-06 | 6.666E-06 | 1600 |
| 147.0 | 2260 | 2.169E-06 | 5.640E-06 | 1600 |
| 148.0 | 2024 | 1.943E-06 | 5.051E-06 | 1600 |
| 149.0 | 1929 | 1.852E-06 | 4.815E-06 | 1600 |
| 150.0 | 1529 | 1.467E-06 | 3.813E-06 | 1600 |
| 151.0 | 1435 | 1.376E-06 | 3.578E-06 | 1600 |
| 152.0 | 866 | 8.319E-07 | 2.163E-06 | 1600 |
| 153.0 | 311 | 2.992E-07 | 7.780E-07 | 1600 |
| E 154.0 | 146 | 1.428E-07 | 3.713E-07 | 1600 |
| E 155.0 | 61 | 5.894E-08 | 1.532E-07 | 1600 |
| E 156.0 | 30 | 2.947E-08 | 7.652E-08 | 1600 |
| E 157.0 | 14 | 1.367E-08 | 3.556E-08 | 1600 |
| E 158.0 | 5 | 4.987E-09 | 1.297E-08 | 1600 |
| E 159.0 | 2 | 2.267E-09 | 5.894E-09 | 1600 |

CROSSWIND INTEGRATED= 4.948E-03 SEC/SQ.M 1.287E-02 1/M



1202688

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 3 | 3.727E-09 | 9.690E-09 | 3200 |
| 91.0 | 22 | 2.143E-08 | 5.572E-08 | 3200 |
| 92.0 | 102 | 9.876E-08 | 2.568E-07 | 3200 |
| 93.0 | 332 | 3.187E-07 | 8.285E-07 | 3200 |
| 94.0 | 972 | 9.336E-07 | 2.427E-06 | 3200 |
| 95.0 | 1746 | 1.676E-06 | 4.358E-06 | 3200 |
| 96.0 | 1966 | 1.887E-06 | 4.906E-06 | 3200 |
| 97.0 | 1737 | 1.668E-06 | 4.336E-06 | 3200 |
| 98.0 | 1171 | 1.125E-06 | 2.924E-06 | 3200 |
| 99.0 | 942 | 9.047E-07 | 2.352E-06 | 3200 |
| 100.0 | 1131 | 1.085E-06 | 2.822E-06 | 3200 |
| 101.0 | 1136 | 1.091E-06 | 2.837E-06 | 3200 |
| 102.0 | 969 | 9.308E-07 | 2.420E-06 | 3200 |
| 103.0 | 626 | 6.010E-07 | 1.563E-06 | 3200 |
| 104.0 | 597 | 5.730E-07 | 1.490E-06 | 3200 |
| 105.0 | 692 | 6.643E-07 | 1.727E-06 | 3200 |
| E 106.0 | 776 | 7.454E-07 | 1.938E-06 | 3200 |
| 107.0 | 896 | 8.600E-07 | 2.236E-06 | 3200 |
| 108.0 | 913 | 8.768E-07 | 2.280E-06 | 3200 |
| 109.0 | 624 | 5.991E-07 | 1.558E-06 | 3200 |
| 110.0 | 621 | 5.963E-07 | 1.550E-06 | 3200 |
| 111.0 | 855 | 8.209E-07 | 2.134E-06 | 3200 |
| 112.0 | 678 | 6.513E-07 | 1.693E-06 | 3200 |
| 113.0 | 1116 | 1.072E-06 | 2.786E-06 | 3200 |
| 114.0 | 950 | 9.122E-07 | 2.372E-06 | 3200 |
| 115.0 | 1366 | 1.311E-06 | 3.408E-06 | 3200 |
| 116.0 | 1203 | 1.155E-06 | 3.004E-06 | 3200 |
| 117.0 | 1203 | 1.155E-06 | 3.004E-06 | 3200 |
| 118.0 | 1031 | 9.895E-07 | 2.573E-06 | 3200 |
| 119.0 | 1480 | 1.421E-06 | 3.694E-06 | 3200 |
| 120.0 | 1281 | 1.230E-06 | 3.198E-06 | 3200 |
| 121.0 | 1264 | 1.213E-06 | 3.154E-06 | 3200 |
| 122.0 | 585 | 5.618E-07 | 1.461E-06 | 3200 |
| 123.0 | 1039 | 9.979E-07 | 2.595E-06 | 3200 |
| 124.0 | 962 | 9.234E-07 | 2.401E-06 | 3200 |
| 125.0 | 823 | 7.901E-07 | 2.054E-06 | 3200 |
| 126.0 | 1130 | 1.085E-06 | 2.820E-06 | 3200 |
| 127.0 | 909 | 8.730E-07 | 2.270E-06 | 3200 |
| 128.0 | 796 | 7.640E-07 | 1.986E-06 | 3200 |
| 129.0 | 706 | 6.783E-07 | 1.764E-06 | 3200 |
| 130.0 | 322 | 3.093E-07 | 8.043E-07 | 3200 |
| 131.0 | 852 | 8.181E-07 | 2.127E-06 | 3200 |
| 132.0 | 1007 | 9.671E-07 | 2.515E-06 | 3200 |
| 133.0 | 779 | 7.482E-07 | 1.945E-06 | 3200 |
| 134.0 | 887 | 8.516E-07 | 2.214E-06 | 3200 |
| 135.0 | 820 | 7.873E-07 | 2.047E-06 | 3200 |
| 136.0 | 1053 | 1.011E-06 | 2.628E-06 | 3200 |
| 137.0 | 1098 | 1.054E-06 | 2.740E-06 | 3200 |
| 138.0 | 1040 | 9.988E-07 | 2.597E-06 | 3200 |
| 139.0 | 793 | 7.612E-07 | 1.979E-06 | 3200 |
| 140.0 | 1045 | 1.003E-06 | 2.609E-06 | 3200 |
| 141.0 | 790 | 7.584E-07 | 1.972E-06 | 3200 |
| 142.0 | 647 | 6.215E-07 | 1.616E-06 | 3200 |
| 143.0 | 486 | 4.668E-07 | 1.214E-06 | 3200 |
| 144.0 | 322 | 3.093E-07 | 8.043E-07 | 3200 |
| 145.0 | 196 | 1.882E-07 | 4.894E-07 | 3200 |
| 146.0 | 199 | 1.910E-07 | 4.966E-07 | 3200 |
| 147.0 | 53 | 5.125E-08 | 1.332E-07 | 3200 |
| 148.0 | 10 | 1.025E-08 | 2.665E-08 | 3200 |
| 149.0 | 14 | 1.398E-08 | 3.634E-08 | 3200 |
| 150.0 | 12 | 1.211E-08 | 3.149E-08 | 3200 |
| 151.0 | 13 | 1.304E-08 | 3.392E-08 | 3200 |
| 152.0 | 6 | 6.522E-09 | 1.696E-08 | 3200 |
| 153.0 | 0 | 0. | 0. | 3200 |
| 154.0 | 0 | 0. | 0. | 3200 |
| 155.0 | 7 | 7.454E-09 | 1.938E-08 | 3200 |
| 156.0 | 0 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 2.671E-03 SEC/SQ.M 6.945E-03 1/M

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 89.0 | 0 | 0. | 0. | 3200 |
| 90.0 | 1 | 1.230E-09 | 3.199E-09 | 3200 |
| 91.0 | 13 | 1.261E-08 | 3.278E-08 | 3200 |
| 92.0 | 112 | 1.076E-07 | 2.799E-07 | 3200 |
| 93.0 | 306 | 2.942E-07 | 7.650E-07 | 3200 |
| 94.0 | 648 | 6.223E-07 | 1.618E-06 | 3200 |
| 95.0 | 1656 | 1.590E-06 | 4.134E-06 | 3200 |
| 96.0 | 1611 | 1.547E-06 | 4.022E-06 | 3200 |
| 97.0 | 1410 | 1.353E-06 | 3.518E-06 | 3200 |
| 98.0 | 1387 | 1.332E-06 | 3.462E-06 | 3200 |
| 99.0 | 826 | 7.935E-07 | 2.063E-06 | 3200 |
| 100.0 | 1006 | 9.657E-07 | 2.511E-06 | 3200 |
| 101.0 | 1140 | 1.095E-06 | 2.847E-06 | 3200 |
| 102.0 | 961 | 9.227E-07 | 2.399E-06 | 3200 |
| 103.0 | 714 | 6.858E-07 | 1.783E-06 | 3200 |
| 104.0 | 647 | 6.213E-07 | 1.615E-06 | 3200 |
| 105.0 | 624 | 5.997E-07 | 1.559E-06 | 3200 |
| S 106.0 | 804 | 7.720E-07 | 2.007E-06 | 3200 |
| 107.0 | 1028 | 9.872E-07 | 2.567E-06 | 3200 |
| 108.0 | 737 | 7.074E-07 | 1.839E-06 | 3200 |
| 109.0 | 647 | 6.213E-07 | 1.615E-06 | 3200 |
| 110.0 | 624 | 5.997E-07 | 1.559E-06 | 3200 |
| 111.0 | 781 | 7.504E-07 | 1.951E-06 | 3200 |
| 112.0 | 624 | 5.997E-07 | 1.559E-06 | 3200 |
| 113.0 | 849 | 8.150E-07 | 2.119E-06 | 3200 |
| 114.0 | 916 | 8.796E-07 | 2.287E-06 | 3200 |
| 115.0 | 1185 | 1.138E-06 | 2.959E-06 | 3200 |
| 116.0 | 737 | 7.074E-07 | 1.839E-06 | 3200 |
| 117.0 | 781 | 7.504E-07 | 1.951E-06 | 3200 |
| 118.0 | 849 | 8.150E-07 | 2.119E-06 | 3200 |
| 119.0 | 1028 | 9.872E-07 | 2.567E-06 | 3200 |
| 120.0 | 737 | 7.074E-07 | 1.839E-06 | 3200 |
| 121.0 | 1208 | 1.159E-06 | 3.015E-06 | 3200 |
| 122.0 | 883 | 8.478E-07 | 2.204E-06 | 3200 |
| 123.0 | 680 | 6.530E-07 | 1.698E-06 | 3200 |
| 124.0 | 627 | 6.018E-07 | 1.565E-06 | 3200 |
| 125.0 | 659 | 6.325E-07 | 1.645E-06 | 3200 |
| 126.0 | 915 | 8.786E-07 | 2.284E-06 | 3200 |
| 127.0 | 712 | 6.838E-07 | 1.778E-06 | 3200 |
| 128.0 | 616 | 5.915E-07 | 1.538E-06 | 3200 |
| 129.0 | 595 | 5.710E-07 | 1.485E-06 | 3200 |
| 4 130.0 | 530 | 5.095E-07 | 1.325E-06 | 3200 |
| 131.0 | 488 | 4.685E-07 | 1.218E-06 | 3200 |
| 132.0 | 723 | 6.940E-07 | 1.805E-06 | 3200 |
| 133.0 | 926 | 8.888E-07 | 2.311E-06 | 3200 |
| 134.0 | 541 | 5.198E-07 | 1.351E-06 | 3200 |
| 135.0 | 712 | 6.838E-07 | 1.778E-06 | 3200 |
| 136.0 | 744 | 7.145E-07 | 1.858E-06 | 3200 |
| 137.0 | 659 | 6.325E-07 | 1.645E-06 | 3200 |
| 138.0 | 936 | 8.991E-07 | 2.338E-06 | 3200 |
| 139.0 | 680 | 6.530E-07 | 1.698E-06 | 3200 |
| 140.0 | 776 | 7.453E-07 | 1.938E-06 | 3200 |
| 141.0 | 659 | 6.325E-07 | 1.645E-06 | 3200 |
| 142.0 | 327 | 3.147E-07 | 8.183E-07 | 3200 |
| 143.0 | 562 | 5.403E-07 | 1.405E-06 | 3200 |
| 144.0 | 249 | 2.399E-07 | 6.237E-07 | 3200 |
| 145.0 | 150 | 1.445E-07 | 3.758E-07 | 3200 |
| 146.0 | 102 | 9.842E-08 | 2.559E-07 | 3200 |
| 147.0 | 28 | 2.768E-08 | 7.197E-08 | 3200 |
| 148.0 | 14 | 1.353E-08 | 3.518E-08 | 3200 |
| 149.0 | 5 | 5.536E-09 | 1.439E-08 | 3200 |
| 150.0 | 8 | 7.689E-09 | 1.999E-08 | 3200 |
| 151.0 | 5 | 4.818E-09 | 1.253E-08 | 3200 |
| 152.0 | 3 | 2.973E-09 | 7.730E-09 | 3200 |
| 153.0 | 1 | 1.538E-09 | 3.998E-09 | 3200 |

CROSSWIND INTEGRATED= 2.259E-03 SEC/SQ.M 5.873E-03 1/M



D3 1202689

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 4 98.0 | .3 | 4111 | 3.946E-06 | 1.026E-05 | 200 |
| 4 98.0 | .7 | 4227 | 4.058E-06 | 1.055E-05 | 200 |
| 98.0 | 1.4 | 4614 | 4.428E-06 | 1.151E-05 | 200 |
| 98.0 | 1.5 | 30425 | 2.920E-05 | 7.592E-05 | 200 |
| 98.0 | 2.7 | 41703 | 4.002E-05 | 1.041E-04 | 200 |
| 98.0 | 4.1 | 51845 | 4.976E-05 | 1.294E-04 | 200 |
| 98.0 | 5.4 | 52257 | 5.015E-05 | 1.304E-04 | 200 |
| E 98.0 | 6.8 | 46315 | 4.445E-05 | 1.156E-04 | 200 |
| 98.0 | 8.1 | 46042 | 4.419E-05 | 1.149E-04 | 200 |
| 98.0 | 9.5 | 41258 | 3.960E-05 | 1.029E-04 | 200 |
| 98.0 | 10.8 | 37178 | 3.568E-05 | 9.277E-05 | 200 |
| 98.0 | 13.5 | 24109 | 2.314E-05 | 6.016E-05 | 200 |
| 98.0 | 16.2 | 21437 | 2.057E-05 | 5.349E-05 | 200 |
| 98.0 | 18.9 | 18972 | 1.821E-05 | 4.734E-05 | 200 |
| 98.0 | 21.6 | 15021 | 1.442E-05 | 3.748E-05 | 200 |
| 98.0 | 24.3 | 14167 | 1.360E-05 | 3.535E-05 | 200 |
| 98.0 | 27.0 | 10972 | 1.053E-05 | 2.738E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 7307 | 7.013E-06 | 1.823E-05 | 200 |
| 106.0 | .7 | 5865 | 5.629E-06 | 1.464E-05 | 200 |
| 106.0 | 1.4 | 3610 | 3.465E-06 | 9.008E-06 | 200 |
| 106.0 | 1.5 | 16794 | 1.612E-05 | 4.190E-05 | 200 |
| 106.0 | 2.7 | 15713 | 1.508E-05 | 3.921E-05 | 200 |
| 106.0 | 4.1 | 18327 | 1.759E-05 | 4.573E-05 | 200 |
| 106.0 | 5.4 | 17505 | 1.680E-05 | 4.368E-05 | 200 |
| 106.0 | 6.8 | 11494 | 1.103E-05 | 2.868E-05 | 200 |
| 106.0 | 8.1 | 17704 | 1.699E-05 | 4.418E-05 | 200 |
| 106.0 | 9.5 | 15249 | 1.463E-05 | 3.805E-05 | 200 |
| 106.0 | 10.8 | 19707 | 1.891E-05 | 4.917E-05 | 200 |
| 106.0 | 13.5 | 15713 | 1.508E-05 | 3.921E-05 | 200 |
| 106.0 | 16.2 | 13641 | 1.309E-05 | 3.404E-05 | 200 |
| 106.0 | 18.9 | 13163 | 1.263E-05 | 3.285E-05 | 200 |
| 106.0 | 21.6 | 12918 | 1.240E-05 | 3.223E-05 | 200 |
| 106.0 | 24.3 | 11260 | 1.081E-05 | 2.810E-05 | 200 |
| 106.0 | 27.0 | 6778 | 6.505E-06 | 1.691E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 5277 | 5.065E-06 | 1.317E-05 | 200 |
| 114.0 | .7 | 6163 | 5.915E-06 | 1.538E-05 | 200 |
| 114.0 | 1.4 | 5900 | 5.663E-06 | 1.472E-05 | 200 |
| 114.0 | 1.5 | 21011 | 2.016E-05 | 5.243E-05 | 200 |
| 114.0 | 2.7 | 19075 | 1.831E-05 | 4.760E-05 | 200 |
| 114.0 | 4.1 | 22659 | 2.175E-05 | 5.654E-05 | 200 |
| 114.0 | 5.4 | 19308 | 1.853E-05 | 4.818E-05 | 200 |
| 114.0 | 6.8 | 18305 | 1.757E-05 | 4.567E-05 | 200 |
| 114.0 | 8.1 | 23316 | 2.238E-05 | 5.818E-05 | 200 |
| 114.0 | 9.5 | 33194 | 3.186E-05 | 8.283E-05 | 200 |
| 114.0 | 10.8 | 31360 | 3.010E-05 | 7.825E-05 | 200 |
| 114.0 | 13.5 | 27207 | 2.611E-05 | 6.789E-05 | 200 |
| 114.0 | 16.2 | 30381 | 2.916E-05 | 7.581E-05 | 200 |
| 114.0 | 18.9 | 18368 | 1.763E-05 | 4.583E-05 | 200 |
| 114.0 | 21.6 | 13260 | 1.273E-05 | 3.309E-05 | 200 |
| 114.0 | 24.3 | 6283 | 6.031E-06 | 1.568E-05 | 200 |
| 114.0 | 27.0 | 3500 | 3.360E-06 | 8.736E-06 | 200 |

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 4 98.0 | .3 | 17404 | 1.670E-05 | 4.343E-05 | 200 |
| 4 98.0 | .7 | 13831 | 1.327E-05 | 3.451E-05 | 200 |
| 4 98.0 | 1.4 | 14724 | 1.413E-05 | 3.674E-05 | 200 |
| 98.0 | 1.5 | 51341 | 4.927E-05 | 1.281E-04 | 200 |
| 98.0 | 2.7 | 82599 | 7.927E-05 | 2.061E-04 | 200 |
| 98.0 | 4.1 | 95996 | 9.213E-05 | 2.395E-04 | 200 |
| 98.0 | 5.4 | 66970 | 6.427E-05 | 1.671E-04 | 200 |
| Z 98.0 | 6.8 | 31991 | 3.070E-05 | 7.982E-05 | 200 |
| 98.0 | 8.1 | 80367 | 7.713E-05 | 2.005E-04 | 200 |
| 98.0 | 9.5 | 32735 | 3.142E-05 | 8.168E-05 | 200 |
| 98.0 | 10.8 | 25793 | 2.475E-05 | 6.436E-05 | 200 |
| 98.0 | 13.5 | 34768 | 3.337E-05 | 8.675E-05 | 200 |
| 98.0 | 16.2 | 22053 | 2.116E-05 | 5.503E-05 | 200 |
| 98.0 | 18.9 | 25419 | 2.439E-05 | 6.343E-05 | 200 |
| 98.0 | 21.6 | 10834 | 1.040E-05 | 2.703E-05 | 200 |
| 98.0 | 24.3 | 30280 | 2.906E-05 | 7.556E-05 | 200 |
| 98.0 | 27.0 | 25793 | 2.475E-05 | 6.436E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 6598 | 6.332E-06 | 1.646E-05 | 200 |
| 106.0 | .7 | 7920 | 7.601E-06 | 1.976E-05 | 200 |
| 106.0 | 1.4 | 4809 | 4.616E-06 | 1.200E-05 | 200 |
| 106.0 | 1.5 | 17250 | 1.656E-05 | 4.304E-05 | 200 |
| 106.0 | 2.7 | 16317 | 1.566E-05 | 4.072E-05 | 200 |
| 106.0 | 4.1 | 17017 | 1.633E-05 | 4.246E-05 | 200 |
| 106.0 | 5.4 | 16084 | 1.544E-05 | 4.013E-05 | 200 |
| 106.0 | 6.8 | 13751 | 1.320E-05 | 3.431E-05 | 200 |
| 106.0 | 8.1 | 27203 | 2.611E-05 | 6.788E-05 | 200 |
| 106.0 | 9.5 | 18650 | 1.790E-05 | 4.654E-05 | 200 |
| 106.0 | 10.8 | 17484 | 1.678E-05 | 4.363E-05 | 200 |
| 106.0 | 13.5 | 16084 | 1.544E-05 | 4.013E-05 | 200 |
| 106.0 | 16.2 | 15617 | 1.499E-05 | 3.897E-05 | 200 |
| 106.0 | 18.9 | 34201 | 3.282E-05 | 8.534E-05 | 200 |
| 106.0 | 21.6 | 15151 | 1.454E-05 | 3.781E-05 | 200 |
| 106.0 | 24.3 | 40422 | 3.879E-05 | 1.009E-04 | 200 |
| 106.0 | 27.0 | 9786 | 9.392E-06 | 2.442E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 5354 | 5.138E-06 | 1.336E-05 | 200 |
| 114.0 | .7 | 6442 | 6.183E-06 | 1.608E-05 | 200 |
| 114.0 | 1.4 | 5276 | 5.064E-06 | 1.317E-05 | 200 |
| 114.0 | 1.5 | 24871 | 2.387E-05 | 6.206E-05 | 200 |
| 114.0 | 2.7 | 19350 | 1.857E-05 | 4.828E-05 | 200 |
| 114.0 | 4.1 | 23315 | 2.238E-05 | 5.818E-05 | 200 |
| 114.0 | 5.4 | 17017 | 1.633E-05 | 4.246E-05 | 200 |
| 114.0 | 6.8 | 19583 | 1.879E-05 | 4.887E-05 | 200 |
| 114.0 | 8.1 | 26426 | 2.536E-05 | 6.594E-05 | 200 |
| 114.0 | 9.5 | 38134 | 3.660E-05 | 9.515E-05 | 200 |
| 114.0 | 10.8 | 40377 | 3.875E-05 | 1.008E-04 | 200 |
| 114.0 | 13.5 | 38134 | 3.660E-05 | 9.515E-05 | 200 |
| 114.0 | 16.2 | 23923 | 2.296E-05 | 5.969E-05 | 200 |
| 114.0 | 18.9 | 24871 | 2.387E-05 | 6.206E-05 | 200 |
| 114.0 | 21.6 | 21760 | 2.088E-05 | 5.430E-05 | 200 |
| 114.0 | 24.3 | 6986 | 6.705E-06 | 1.743E-05 | 200 |
| 114.0 | 27.0 | 5509 | 5.288E-06 | 1.375E-05 | 200 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 350 | 3.360E-07 | 8.737E-07 | 200 |
| 122.0 | .7 | 3250 | 3.120E-06 | 8.111E-06 | 200 |
| 122.0 | 1.4 | 4007 | 3.846E-06 | 1.000E-05 | 200 |
| 122.0 | 1.5 | 16076 | 1.543E-05 | 4.011E-05 | 200 |
| 122.0 | 2.7 | 16433 | 1.577E-05 | 4.101E-05 | 200 |
| 122.0 | 4.1 | 18591 | 1.784E-05 | 4.639E-05 | 200 |
| 122.0 | 5.4 | 19888 | 1.909E-05 | 4.962E-05 | 200 |
| 122.0 | 6.8 | 13522 | 1.298E-05 | 3.374E-05 | 200 |
| 122.0 | 8.1 | 15207 | 1.459E-05 | 3.795E-05 | 200 |
| 122.0 | 9.5 | 14006 | 1.344E-05 | 3.495E-05 | 200 |
| 122.0 | 10.8 | 16783 | 1.611E-05 | 4.188E-05 | 200 |
| 122.0 | 13.5 | 12443 | 1.194E-05 | 3.105E-05 | 200 |
| 122.0 | 16.2 | 9882 | 9.484E-06 | 2.466E-05 | 200 |
| 122.0 | 18.9 | 9684 | 9.294E-06 | 2.416E-05 | 200 |
| 122.0 | 21.6 | 9903 | 9.505E-06 | 2.471E-05 | 200 |
| 122.0 | 24.3 | 6242 | 5.991E-06 | 1.558E-05 | 200 |
| 122.0 | 27.0 | 5880 | 5.644E-06 | 1.467E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 522 | 5.010E-07 | 1.303E-06 | 200 |
| 122.0 | .7 | 6209 | 5.959E-06 | 1.549E-05 | 200 |
| 122.0 | 1.4 | 11885 | 1.141E-05 | 2.966E-05 | 200 |
| 122.0 | 1.5 | 20983 | 2.014E-05 | 5.236E-05 | 200 |
| L 122.0 | 2.7 | 0 | 0. | 0. | 200 |
| 122.0 | 4.1 | 20983 | 2.014E-05 | 5.236E-05 | 200 |
| 122.0 | 5.4 | 14918 | 1.432E-05 | 3.722E-05 | 200 |
| 122.0 | 6.8 | 12352 | 1.185E-05 | 3.082E-05 | 200 |
| 122.0 | 8.1 | 24871 | 2.387E-05 | 6.206E-05 | 200 |
| 122.0 | 9.5 | 12352 | 1.185E-05 | 3.082E-05 | 200 |
| 122.0 | 10.8 | 15851 | 1.521E-05 | 3.955E-05 | 200 |
| 122.0 | 13.5 | 19428 | 1.864E-05 | 4.848E-05 | 200 |
| 122.0 | 16.2 | 11885 | 1.141E-05 | 2.966E-05 | 200 |
| 122.0 | 18.9 | 20205 | 1.939E-05 | 5.042E-05 | 200 |
| 122.0 | 21.6 | 10252 | 9.840E-06 | 2.558E-05 | 200 |
| 122.0 | 24.3 | 12818 | 1.230E-05 | 3.199E-05 | 200 |
| 122.0 | 27.0 | 13518 | 1.297E-05 | 3.373E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 7992 | 7.670E-06 | 1.994E-05 | 200 |
| 130.0 | .7 | 6025 | 5.783E-06 | 1.503E-05 | 200 |
| 130.0 | 1.4 | 6322 | 6.067E-06 | 1.577E-05 | 200 |
| 130.0 | 1.5 | 20401 | 1.958E-05 | 5.090E-05 | 200 |
| 130.0 | 2.7 | 18817 | 1.806E-05 | 4.695E-05 | 200 |
| 130.0 | 4.1 | 16819 | 1.614E-05 | 4.197E-05 | 200 |
| 130.0 | 5.4 | 32703 | 3.138E-05 | 8.160E-05 | 200 |
| 130.0 | 6.8 | 27844 | 2.672E-05 | 6.948E-05 | 200 |
| 130.0 | 8.1 | 34902 | 3.350E-05 | 8.709E-05 | 200 |
| 130.0 | 9.5 | 24433 | 2.345E-05 | 6.097E-05 | 200 |
| 130.0 | 10.8 | 22045 | 2.116E-05 | 5.501E-05 | 200 |
| 130.0 | 13.5 | 21258 | 2.040E-05 | 5.304E-05 | 200 |
| 130.0 | 16.2 | 21263 | 2.041E-05 | 5.306E-05 | 200 |
| 130.0 | 18.9 | 15734 | 1.510E-05 | 3.926E-05 | 200 |
| 130.0 | 21.6 | 14107 | 1.354E-05 | 3.520E-05 | 200 |
| 130.0 | 24.3 | 9573 | 9.187E-06 | 2.389E-05 | 200 |
| 130.0 | 27.0 | 6009 | 5.768E-06 | 1.500E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 13985 | 1.342E-05 | 3.490E-05 | 200 |
| 130.0 | .7 | 8853 | 8.496E-06 | 2.209E-05 | 200 |
| 130.0 | 1.4 | 8853 | 8.496E-06 | 2.209E-05 | 200 |
| 130.0 | 1.5 | 19428 | 1.864E-05 | 4.848E-05 | 200 |
| 130.0 | 2.7 | 34979 | 3.357E-05 | 8.728E-05 | 200 |
| 130.0 | 4.1 | 19428 | 1.864E-05 | 4.848E-05 | 200 |
| 130.0 | 5.4 | 47109 | 4.521E-05 | 1.175E-04 | 200 |
| 130.0 | 6.8 | 34768 | 3.337E-05 | 8.675E-05 | 200 |
| 130.0 | 8.1 | 38134 | 3.660E-05 | 9.515E-05 | 200 |
| 130.0 | 9.5 | 28758 | 2.760E-05 | 7.176E-05 | 200 |
| 130.0 | 10.8 | 26426 | 2.536E-05 | 6.594E-05 | 200 |
| 130.0 | 13.5 | 38867 | 3.730E-05 | 9.698E-05 | 200 |
| 130.0 | 16.2 | 34201 | 3.282E-05 | 8.534E-05 | 200 |
| 130.0 | 18.9 | 23315 | 2.238E-05 | 5.818E-05 | 200 |
| 130.0 | 21.6 | 23315 | 2.238E-05 | 5.818E-05 | 200 |
| 130.0 | 24.3 | 13985 | 1.342E-05 | 3.490E-05 | 200 |
| 130.0 | 27.0 | 8619 | 8.272E-06 | 2.151E-05 | 200 |

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 618 | 5.937E-07 | 1.544E-06 | 800 |
| 98.0 | .5 | 2306 | 2.213E-06 | 5.755E-06 | 800 |
| 98.0 | 1.1 | 2563 | 2.460E-06 | 6.397E-06 | 800 |
| 98.0 | 1.5 | 2586 | 2.483E-06 | 6.455E-06 | 800 |
| 98.0 | 2.1 | 432 | 4.146E-07 | 1.078E-06 | 800 |
| 98.0 | 4.2 | 3230 | 3.100E-06 | 8.061E-06 | 800 |
| 98.0 | 6.3 | 2807 | 2.694E-06 | 7.005E-06 | 800 |
| 98.0 | 8.4 | 2853 | 2.738E-06 | 7.120E-06 | 800 |
| 98.0 | 10.5 | 3101 | 2.977E-06 | 7.740E-06 | 800 |
| 98.0 | 12.6 | 3357 | 3.222E-06 | 8.378E-06 | 800 |
| 98.0 | 14.7 | 1667 | 1.600E-06 | 4.160E-06 | 800 |
| 98.0 | 16.8 | 2559 | 2.456E-06 | 6.386E-06 | 800 |
| 98.0 | 21.0 | 4449 | 4.271E-06 | 1.110E-05 | 800 |
| D 98.0 | 25.2 | 2812 | 2.699E-06 | 7.017E-06 | 800 |
| D 98.0 | 29.4 | 2420 | 2.323E-06 | 6.041E-06 | 800 |
| 98.0 | 33.6 | 3203 | 3.074E-06 | 7.994E-06 | 800 |
| 98.0 | 37.8 | 3607 | 3.462E-06 | 9.001E-06 | 800 |
| 98.0 | 42.0 | 2735 | 2.625E-06 | 6.825E-06 | 800 |

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 386 | 3.712E-07 | 9.652E-07 | 800 |
| 98.0 | .5 | 1923 | 1.846E-06 | 4.799E-06 | 800 |
| 98.0 | 1.1 | 2496 | 2.396E-06 | 6.229E-06 | 800 |
| 98.0 | 1.5 | 179 | 1.719E-07 | 4.469E-07 | 800 |
| 98.0 | 2.1 | 569 | 5.465E-07 | 1.421E-06 | 800 |
| 98.0 | 4.2 | 3141 | 3.015E-06 | 7.838E-06 | 800 |
| 98.0 | 6.3 | 3825 | 3.671E-06 | 9.545E-06 | 800 |
| 98.0 | 8.4 | 2997 | 2.877E-06 | 7.480E-06 | 800 |
| 98.0 | 10.5 | 4351 | 4.176E-06 | 1.086E-05 | 800 |
| 98.0 | 12.6 | 3750 | 3.599E-06 | 9.357E-06 | 800 |
| 98.0 | 14.7 | 2424 | 2.327E-06 | 6.050E-06 | 800 |
| 98.0 | 16.8 | 3073 | 2.949E-06 | 7.668E-06 | 800 |
| 98.0 | 21.0 | 5705 | 5.476E-06 | 1.424E-05 | 800 |
| D 98.0 | 25.2 | 1636 | 1.571E-06 | 4.083E-06 | 800 |
| D 98.0 | 29.4 | 1433 | 1.376E-06 | 3.577E-06 | 800 |
| 98.0 | 33.6 | 3524 | 3.382E-06 | 8.794E-06 | 800 |
| 98.0 | 37.8 | 9240 | 8.868E-06 | 2.306E-05 | 800 |
| 98.0 | 42.0 | 4577 | 4.393E-06 | 1.142E-05 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 106.0 | .3 | 1760 | 1.689E-06 | 4.392E-06 | 800 | 106.0 | .3 | 2209 | 2.121E-06 | 5.514E-06 | 800 |
| 106.0 | .5 | 1402 | 1.346E-06 | 3.500E-06 | 800 | 106.0 | .5 | 1744 | 1.674E-06 | 4.352E-06 | 800 |
| 106.0 | 1.1 | 1560 | 1.498E-06 | 3.895E-06 | 800 | 106.0 | 1.1 | 1744 | 1.674E-06 | 4.352E-06 | 800 |
| 106.0 | 1.5 | 1725 | 1.656E-06 | 4.305E-06 | 800 | 106.0 | 1.5 | 2639 | 2.533E-06 | 6.587E-06 | 800 |
| 106.0 | 2.1 | 475 | 4.566E-07 | 1.187E-06 | 800 | 106.0 | 2.1 | 397 | 3.815E-07 | 9.920E-07 | 800 |
| 106.0 | 4.2 | 3329 | 3.195E-06 | 8.308E-06 | 800 | 106.0 | 4.2 | 2697 | 2.588E-06 | 6.730E-06 | 800 |
| 106.0 | 6.3 | 242 | 2.326E-07 | 6.048E-07 | 800 | 106.0 | 6.3 | 128 | 1.237E-07 | 3.217E-07 | 800 |
| 106.0 | 8.4 | 285 | 2.741E-07 | 7.126E-07 | 800 | 106.0 | 8.4 | 89 | 8.593E-08 | 2.234E-07 | 800 |
| 106.0 | 10.5 | 206 | 1.982E-07 | 5.152E-07 | 800 | 106.0 | 10.5 | 2 | 2.062E-09 | 5.362E-09 | 800 |
| 106.0 | 12.6 | 147 | 1.416E-07 | 3.681E-07 | 800 | 106.0 | 12.6 | 17 | 1.650E-08 | 4.290E-08 | 800 |
| 106.0 | 14.7 | 501 | 4.808E-07 | 1.250E-06 | 800 | 106.0 | 14.7 | 0 | 0. | 0. | 800 |
| 106.0 | 16.8 | 121 | 1.161E-07 | 3.019E-07 | 800 | 106.0 | 16.8 | 41 | 4.022E-08 | 1.046E-07 | 800 |
| 106.0 | 21.0 | 315 | 3.024E-07 | 7.862E-07 | 800 | 106.0 | 21.0 | 0 | 6.875E-10 | 1.787E-09 | 800 |
| 106.0 | 25.2 | 193 | 1.859E-07 | 4.833E-07 | 800 | 106.0 | 25.2 | 1 | 1.375E-09 | 3.575E-09 | 800 |
| 106.0 | 29.4 | 249 | 2.396E-07 | 6.230E-07 | 800 | 106.0 | 29.4 | 0 | 0. | 0. | 800 |
| 106.0 | 33.6 | 124 | 1.199E-07 | 3.117E-07 | 800 | 106.0 | 33.6 | 0 | 0. | 0. | 800 |
| 106.0 | 37.8 | 97 | 9.313E-08 | 2.422E-07 | 800 | 106.0 | 37.8 | 11 | 1.134E-08 | 2.949E-08 | 800 |
| 106.0 | 42.0 | 94 | 9.045E-08 | 2.352E-07 | 800 | 106.0 | 42.0 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 114.0 | .3 | 4484 | 4.304E-06 | 1.119E-05 | 800 | 114.0 | .3 | 5028 | 4.826E-06 | 1.255E-05 | 800 |
| 114.0 | .5 | 3025 | 2.904E-06 | 7.550E-06 | 800 | 114.0 | .5 | 3900 | 3.743E-06 | 9.732E-06 | 800 |
| 114.0 | 1.1 | 4070 | 3.906E-06 | 1.016E-05 | 800 | 114.0 | 1.1 | 5254 | 5.043E-06 | 1.311E-05 | 800 |
| 114.0 | 1.5 | 3784 | 3.632E-06 | 9.443E-06 | 800 | 114.0 | 1.5 | 6984 | 6.703E-06 | 1.743E-05 | 800 |
| 114.0 | 2.1 | 792 | 7.610E-07 | 1.979E-06 | 800 | 114.0 | 2.1 | 1565 | 1.502E-06 | 3.905E-06 | 800 |
| 114.0 | 4.2 | 3342 | 3.207E-06 | 8.339E-06 | 800 | 114.0 | 4.2 | 4126 | 3.960E-06 | 1.030E-05 | 800 |
| 114.0 | 6.3 | 3014 | 2.893E-06 | 7.522E-06 | 800 | 114.0 | 6.3 | 4803 | 4.609E-06 | 1.198E-05 | 800 |
| 114.0 | 8.4 | 3368 | 3.232E-06 | 8.404E-06 | 800 | 114.0 | 8.4 | 3900 | 3.743E-06 | 9.732E-06 | 800 |
| 114.0 | 10.5 | 3421 | 3.283E-06 | 8.537E-06 | 800 | 114.0 | 10.5 | 6307 | 6.053E-06 | 1.574E-05 | 800 |
| 114.0 | 12.6 | 2886 | 2.770E-06 | 7.203E-06 | 800 | 114.0 | 12.6 | 2922 | 2.805E-06 | 7.293E-06 | 800 |
| 114.0 | 14.7 | 1830 | 1.757E-06 | 4.568E-06 | 800 | 114.0 | 14.7 | 2711 | 2.602E-06 | 6.765E-06 | 800 |
| 114.0 | 16.8 | 1922 | 1.845E-06 | 4.797E-06 | 800 | 114.0 | 16.8 | 2496 | 2.396E-06 | 6.229E-06 | 800 |
| 114.0 | 21.0 | 2137 | 2.051E-06 | 5.332E-06 | 800 | 114.0 | 21.0 | 2424 | 2.327E-06 | 6.050E-06 | 800 |
| 114.0 | 25.2 | 1565 | 1.502E-06 | 3.906E-06 | 800 | 114.0 | 25.2 | 1887 | 1.811E-06 | 4.710E-06 | 800 |
| 114.0 | 29.4 | 1159 | 1.113E-06 | 2.893E-06 | 800 | 114.0 | 29.4 | 2281 | 2.190E-06 | 5.693E-06 | 800 |
| 114.0 | 33.6 | 2229 | 2.140E-06 | 5.563E-06 | 800 | 114.0 | 33.6 | 1869 | 1.794E-06 | 4.665E-06 | 800 |
| 114.0 | 37.8 | 1214 | 1.165E-06 | 3.029E-06 | 800 | 114.0 | 37.8 | 2209 | 2.121E-06 | 5.514E-06 | 800 |
| 114.0 | 42.0 | 1612 | 1.547E-06 | 4.023E-06 | 800 | 114.0 | 42.0 | 2066 | 1.983E-06 | 5.157E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 122.0 | .3 | 5479 | 5.258E-06 | 1.367E-05 | 800 | 122.0 | .3 | 12851 | 1.233E-05 | 3.207E-05 | 800 |
| 122.0 | .5 | 5272 | 5.060E-06 | 1.316E-05 | 800 | 122.0 | .5 | 3674 | 3.527E-06 | 9.169E-06 | 800 |
| 122.0 | 1.1 | 6363 | 6.107E-06 | 1.588E-05 | 800 | 122.0 | 1.1 | 5254 | 5.043E-06 | 1.311E-05 | 800 |
| 122.0 | 1.5 | 5318 | 5.104E-06 | 1.327E-05 | 800 | 122.0 | 1.5 | 9465 | 9.085E-06 | 2.362E-05 | 800 |
| 122.0 | 2.1 | 1402 | 1.346E-06 | 3.500E-06 | 800 | 122.0 | 2.1 | 1421 | 1.365E-06 | 3.548E-06 | 800 |
| 122.0 | 4.2 | 6699 | 6.429E-06 | 1.672E-05 | 800 | 122.0 | 4.2 | 8112 | 7.786E-06 | 2.024E-05 | 800 |
| P 122.0 | 6.3 | 401 | 3.852E-07 | 1.002E-06 | 800 | P 122.0 | 6.3 | 25 | 2.475E-08 | 6.435E-08 | 800 |
| P 122.0 | 8.4 | 356 | 3.426E-07 | 8.908E-07 | 800 | P 122.0 | 8.4 | 7 | 7.562E-09 | 1.966E-08 | 800 |
| P 122.0 | 10.5 | 352 | 3.387E-07 | 8.806E-07 | 800 | P 122.0 | 10.5 | 118 | 1.134E-07 | 2.949E-07 | 800 |
| P 122.0 | 12.6 | 201 | 1.932E-07 | 5.024E-07 | 800 | P 122.0 | 12.6 | 15 | 1.444E-08 | 3.754E-08 | 800 |
| P 122.0 | 14.7 | 426 | 4.089E-07 | 1.063E-06 | 800 | P 122.0 | 14.7 | 20 | 1.959E-08 | 5.094E-08 | 800 |
| P 122.0 | 16.8 | 490 | 4.711E-07 | 1.225E-06 | 800 | P 122.0 | 16.8 | 0 | 0. | 0. | 800 |
| P 122.0 | 21.0 | 111 | 1.074E-07 | 2.792E-07 | 800 | P 122.0 | 21.0 | 0 | 0. | 0. | 800 |
| P 122.0 | 25.2 | 253 | 2.436E-07 | 6.333E-07 | 800 | P 122.0 | 25.2 | 0 | 0. | 0. | 800 |
| P 122.0 | 29.4 | 245 | 2.355E-07 | 6.122E-07 | 800 | P 122.0 | 29.4 | 0 | 0. | 0. | 800 |
| P 122.0 | 33.6 | 232 | 2.235E-07 | 5.812E-07 | 800 | P 122.0 | 33.6 | 0 | 0. | 0. | 800 |
| P 122.0 | 37.8 | 51 | 4.954E-08 | 1.288E-07 | 800 | P 122.0 | 37.8 | 0 | 0. | 0. | 800 |
| P 122.0 | 42.0 | 121 | 1.168E-07 | 3.038E-07 | 800 | P 122.0 | 42.0 | 0 | 0. | 0. | 800 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 1438 | 1.381E-06 | 3.591E-06 | 800 |
| 130.0 | .5 | 2573 | 2.470E-06 | 6.422E-06 | 800 |
| 130.0 | 1.1 | 5893 | 5.656E-06 | 1.470E-05 | 800 |
| 130.0 | 1.5 | 4872 | 4.676E-06 | 1.216E-05 | 800 |
| 130.0 | 2.1 | 1643 | 1.577E-06 | 4.101E-06 | 800 |
| 130.0 | 4.2 | 4929 | 4.731E-06 | 1.230E-05 | 800 |
| 130.0 | 6.3 | 4665 | 4.478E-06 | 1.164E-05 | 800 |
| 130.0 | 8.4 | 3025 | 2.904E-06 | 7.550E-06 | 800 |
| 130.0 | 10.5 | 2624 | 2.518E-06 | 6.548E-06 | 800 |
| 130.0 | 12.6 | 2542 | 2.440E-06 | 6.344E-06 | 800 |
| 130.0 | 14.7 | 1887 | 1.811E-06 | 4.709E-06 | 800 |
| 130.0 | 16.8 | 1664 | 1.597E-06 | 4.153E-06 | 800 |
| 130.0 | 21.0 | 1525 | 1.464E-06 | 3.806E-06 | 800 |
| 130.0 | 25.2 | 1540 | 1.479E-06 | 3.845E-06 | 800 |
| 130.0 | 29.4 | 1348 | 1.294E-06 | 3.364E-06 | 800 |
| 130.0 | 33.6 | 1128 | 1.083E-06 | 2.816E-06 | 800 |
| 130.0 | 37.8 | 1170 | 1.124E-06 | 2.921E-06 | 800 |
| 130.0 | 42.0 | 1091 | 1.048E-06 | 2.724E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 1457 | 1.399E-06 | 3.637E-06 | 800 |
| 130.0 | .5 | 1529 | 1.468E-06 | 3.816E-06 | 800 |
| 130.0 | 1.1 | 4878 | 4.682E-06 | 1.217E-05 | 800 |
| 130.0 | 1.5 | 5555 | 5.331E-06 | 1.386E-05 | 800 |
| 130.0 | 2.1 | 1529 | 1.468E-06 | 3.816E-06 | 800 |
| 130.0 | 4.2 | 3223 | 3.094E-06 | 8.043E-06 | 800 |
| 130.0 | 6.3 | 3524 | 3.382E-06 | 8.794E-06 | 800 |
| 130.0 | 8.4 | 2245 | 2.155E-06 | 5.604E-06 | 800 |
| 130.0 | 10.5 | 2922 | 2.805E-06 | 7.293E-06 | 800 |
| 130.0 | 12.6 | 2847 | 2.733E-06 | 7.105E-06 | 800 |
| 130.0 | 14.7 | 1851 | 1.777E-06 | 4.620E-06 | 800 |
| 130.0 | 16.8 | 1887 | 1.811E-06 | 4.710E-06 | 800 |
| 130.0 | 21.0 | 1027 | 9.865E-07 | 2.565E-06 | 800 |
| 130.0 | 25.2 | 1135 | 1.090E-06 | 2.833E-06 | 800 |
| 130.0 | 29.4 | 1457 | 1.399E-06 | 3.637E-06 | 800 |
| 130.0 | 33.6 | 1457 | 1.399E-06 | 3.637E-06 | 800 |
| 130.0 | 37.8 | 1242 | 1.193E-06 | 3.101E-06 | 800 |
| 130.0 | 42.0 | 1027 | 9.865E-07 | 2.565E-06 | 800 |

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 3678 | 3.530E-06 | 9.179E-06 | 1600 |
| 98.0 | .4 | 3999 | 3.838E-06 | 9.980E-06 | 1600 |
| 98.0 | .8 | 3649 | 3.503E-06 | 9.107E-06 | 1600 |
| 98.0 | 1.5 | 3265 | 3.134E-06 | 8.148E-06 | 1600 |
| 98.0 | 1.6 | 2265 | 2.175E-06 | 5.654E-06 | 1600 |
| 98.0 | 3.1 | 4837 | 4.643E-06 | 1.207E-05 | 1600 |
| 98.0 | 6.2 | 3787 | 3.635E-06 | 9.451E-06 | 1600 |
| 98.0 | 9.3 | 3367 | 3.232E-06 | 8.402E-06 | 1600 |
| 98.0 | 12.4 | 2093 | 2.009E-06 | 5.223E-06 | 1600 |
| 98.0 | 15.5 | 1829 | 1.756E-06 | 4.566E-06 | 1600 |
| 98.0 | 18.6 | 1691 | 1.623E-06 | 4.220E-06 | 1600 |
| 98.0 | 21.7 | 1952 | 1.874E-06 | 4.872E-06 | 1600 |
| 98.0 | 24.8 | 2067 | 1.984E-06 | 5.159E-06 | 1600 |
| 98.0 | 31.0 | 1803 | 1.731E-06 | 4.501E-06 | 1600 |
| 98.0 | 37.2 | 2029 | 1.948E-06 | 5.064E-06 | 1600 |
| 98.0 | 43.4 | 1555 | 1.493E-06 | 3.881E-06 | 1600 |
| 98.0 | 49.6 | 1293 | 1.242E-06 | 3.228E-06 | 1600 |
| 98.0 | 55.8 | 1135 | 1.090E-06 | 2.834E-06 | 1600 |
| 98.0 | 62.0 | 872 | 8.375E-07 | 2.178E-06 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 3378 | 3.243E-06 | 8.431E-06 | 1600 |
| 106.0 | .4 | 3999 | 3.838E-06 | 9.980E-06 | 1600 |
| 106.0 | .8 | 3895 | 3.739E-06 | 9.720E-06 | 1600 |
| 106.0 | 1.5 | 4051 | 3.888E-06 | 1.011E-05 | 1600 |
| 106.0 | 1.6 | 3937 | 3.779E-06 | 9.826E-06 | 1600 |
| 106.0 | 3.1 | 4161 | 3.994E-06 | 1.038E-05 | 1600 |
| 106.0 | 6.2 | 2491 | 2.392E-06 | 6.218E-06 | 1600 |
| 106.0 | 9.3 | 803 | 7.714E-07 | 2.006E-06 | 1600 |
| 106.0 | 12.4 | 1455 | 1.397E-06 | 3.631E-06 | 1600 |
| 106.0 | 15.5 | 1225 | 1.177E-06 | 3.059E-06 | 1600 |
| 106.0 | 18.6 | 1410 | 1.354E-06 | 3.520E-06 | 1600 |
| 106.0 | 21.7 | 1064 | 1.022E-06 | 2.657E-06 | 1600 |
| 106.0 | 24.8 | 1102 | 1.058E-06 | 2.751E-06 | 1600 |
| 106.0 | 31.0 | 1171 | 1.124E-06 | 2.923E-06 | 1600 |
| 106.0 | 37.2 | 1093 | 1.050E-06 | 2.729E-06 | 1600 |
| 106.0 | 43.4 | 734 | 7.050E-07 | 1.833E-06 | 1600 |
| 106.0 | 49.6 | 830 | 7.975E-07 | 2.073E-06 | 1600 |
| 106.0 | 55.8 | 929 | 8.917E-07 | 2.318E-06 | 1600 |
| 106.0 | 62.0 | 840 | 8.063E-07 | 2.096E-06 | 1600 |

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 3266 | 3.135E-06 | 8.151E-06 | 1600 |
| 98.0 | .4 | 3465 | 3.325E-06 | 8.646E-06 | 1600 |
| 98.0 | .8 | 3415 | 3.276E-06 | 8.522E-06 | 1600 |
| 98.0 | 1.5 | 7731 | 7.419E-06 | 1.929E-05 | 1600 |
| 98.0 | 1.6 | 2423 | 2.326E-06 | 6.047E-06 | 1600 |
| 98.0 | 3.1 | 4903 | 4.706E-06 | 1.224E-05 | 1600 |
| 98.0 | 6.2 | 3613 | 3.468E-06 | 9.018E-06 | 1600 |
| 98.0 | 9.3 | 2274 | 2.183E-06 | 5.676E-06 | 1600 |
| 98.0 | 12.4 | 1361 | 1.326E-06 | 3.446E-06 | 1600 |
| 98.0 | 15.5 | 1183 | 1.136E-06 | 2.953E-06 | 1600 |
| 98.0 | 18.6 | 1580 | 1.517E-06 | 3.943E-06 | 1600 |
| 98.0 | 21.7 | 4754 | 4.563E-06 | 1.186E-05 | 1600 |
| 98.0 | 24.8 | 1049 | 1.007E-06 | 2.619E-06 | 1600 |
| 98.0 | 31.0 | 1629 | 1.564E-06 | 4.067E-06 | 1600 |
| 98.0 | 37.2 | 1877 | 1.802E-06 | 4.686E-06 | 1600 |
| 98.0 | 43.4 | 1138 | 1.093E-06 | 2.841E-06 | 1600 |
| 98.0 | 49.6 | 1599 | 1.535E-06 | 3.990E-06 | 1600 |
| 98.0 | 55.8 | 1079 | 1.036E-06 | 2.693E-06 | 1600 |
| 98.0 | 62.0 | 890 | 8.546E-07 | 2.222E-06 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 3018 | 2.897E-06 | 7.532E-06 | 1600 |
| 106.0 | .4 | 2969 | 2.849E-06 | 7.409E-06 | 1600 |
| 106.0 | .8 | 3365 | 3.230E-06 | 8.399E-06 | 1600 |
| 106.0 | 1.5 | 4606 | 4.420E-06 | 1.149E-05 | 1600 |
| 106.0 | 1.6 | 3217 | 3.087E-06 | 8.027E-06 | 1600 |
| 106.0 | 3.1 | 2076 | 1.993E-06 | 5.181E-06 | 1600 |
| 106.0 | 6.2 | 1381 | 1.326E-06 | 3.448E-06 | 1600 |
| 106.0 | 9.3 | 654 | 6.279E-07 | 1.633E-06 | 1600 |
| 106.0 | 12.4 | 890 | 8.546E-07 | 2.222E-06 | 1600 |
| 106.0 | 15.5 | 701 | 6.733E-07 | 1.750E-06 | 1600 |
| 106.0 | 18.6 | 819 | 7.866E-07 | 2.045E-06 | 1600 |
| 106.0 | 21.7 | 819 | 7.866E-07 | 2.045E-06 | 1600 |
| 106.0 | 24.8 | 701 | 6.733E-07 | 1.750E-06 | 1600 |
| 106.0 | 31.0 | 725 | 6.959E-07 | 1.809E-06 | 1600 |
| 106.0 | 37.2 | 630 | 6.053E-07 | 1.574E-06 | 1600 |
| 106.0 | 43.4 | 772 | 7.413E-07 | 1.927E-06 | 1600 |
| 106.0 | 49.6 | 425 | 4.080E-07 | 1.061E-06 | 1600 |
| 106.0 | 55.8 | 1150 | 1.104E-06 | 2.870E-06 | 1600 |
| 106.0 | 62.0 | 819 | 7.866E-07 | 2.045E-06 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 114.0 | .2 | 2668 | 2.561E-06 | 6.659E-06 | 1600 | 114.0 | .2 | 2225 | 2.135E-06 | 5.552E-06 | 1600 |
| 114.0 | .4 | 2464 | 2.365E-06 | 6.149E-06 | 1600 | 114.0 | .4 | 2175 | 2.088E-06 | 5.428E-06 | 1600 |
| 114.0 | .8 | 2014 | 1.933E-06 | 5.026E-06 | 1600 | 114.0 | .8 | 2274 | 2.183E-06 | 5.676E-06 | 1600 |
| 114.0 | 1.5 | 2785 | 2.673E-06 | 6.950E-06 | 1600 | 114.0 | 1.5 | 3713 | 3.564E-06 | 9.265E-06 | 1600 |
| 114.0 | 1.6 | 2367 | 2.272E-06 | 5.908E-06 | 1600 | 114.0 | 1.6 | 2373 | 2.278E-06 | 5.923E-06 | 1600 |
| 114.0 | 3.1 | 4016 | 3.854E-06 | 1.002E-05 | 1600 | 114.0 | 3.1 | 2721 | 2.611E-06 | 6.790E-06 | 1600 |
| 114.0 | 6.2 | 4081 | 3.917E-06 | 1.019E-05 | 1600 | 114.0 | 6.2 | 2721 | 2.611E-06 | 6.790E-06 | 1600 |
| 114.0 | 9.3 | 3513 | 3.372E-06 | 8.768E-06 | 1600 | 114.0 | 9.3 | 2770 | 2.659E-06 | 6.913E-06 | 1600 |
| 114.0 | 12.4 | 3324 | 3.191E-06 | 8.296E-06 | 1600 | 114.0 | 12.4 | 3415 | 3.278E-06 | 8.522E-06 | 1600 |
| 114.0 | 15.5 | 3258 | 3.127E-06 | 8.130E-06 | 1600 | 114.0 | 15.5 | 2969 | 2.849E-06 | 7.409E-06 | 1600 |
| 114.0 | 18.6 | 2705 | 2.596E-06 | 6.750E-06 | 1600 | 114.0 | 18.6 | 2770 | 2.659E-06 | 6.913E-06 | 1600 |
| 114.0 | 21.7 | 3017 | 2.896E-06 | 7.529E-06 | 1600 | 114.0 | 21.7 | 2076 | 1.993E-06 | 5.181E-06 | 1600 |
| 114.0 | 24.8 | 2479 | 2.380E-06 | 6.188E-06 | 1600 | 114.0 | 24.8 | 1679 | 1.612E-06 | 4.191E-06 | 1600 |
| 114.0 | 31.0 | 2101 | 2.017E-06 | 5.243E-06 | 1600 | 114.0 | 31.0 | 1877 | 1.802E-06 | 4.686E-06 | 1600 |
| 114.0 | 37.2 | 1695 | 1.628E-06 | 4.232E-06 | 1600 | 114.0 | 37.2 | 1877 | 1.802E-06 | 4.686E-06 | 1600 |
| 114.0 | 43.4 | 1445 | 1.388E-06 | 3.608E-06 | 1600 | 114.0 | 43.4 | 1079 | 1.036E-06 | 2.693E-06 | 1600 |
| 114.0 | 49.6 | 1104 | 1.060E-06 | 2.756E-06 | 1600 | 114.0 | 49.6 | 1150 | 1.104E-06 | 2.870E-06 | 1600 |
| 114.0 | 55.8 | 833 | 7.998E-07 | 2.080E-06 | 1600 | 114.0 | 55.8 | 1126 | 1.081E-06 | 2.811E-06 | 1600 |
| 114.0 | 62.0 | 686 | 6.590E-07 | 1.713E-06 | 1600 | 114.0 | 62.0 | 1150 | 1.104E-06 | 2.870E-06 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 122.0 | .2 | 1377 | 1.322E-06 | 3.437E-06 | 1600 | 122.0 | .2 | 1008 | 9.679E-07 | 2.517E-06 | 1600 |
| 122.0 | .4 | 1511 | 1.450E-06 | 3.771E-06 | 1600 | 122.0 | .4 | 1126 | 1.081E-06 | 2.811E-06 | 1600 |
| 122.0 | .8 | 1288 | 1.237E-06 | 3.216E-06 | 1600 | 122.0 | .8 | 1292 | 1.240E-06 | 3.224E-06 | 1600 |
| 122.0 | 1.5 | 1454 | 1.396E-06 | 3.629E-06 | 1600 | 122.0 | 1.5 | 1551 | 1.489E-06 | 3.872E-06 | 1600 |
| 122.0 | 1.6 | 1530 | 1.469E-06 | 3.820E-06 | 1600 | 122.0 | 1.6 | 1339 | 1.285E-06 | 3.342E-06 | 1600 |
| 122.0 | 3.1 | 1364 | 1.309E-06 | 3.404E-06 | 1600 | 122.0 | 3.1 | 1079 | 1.036E-06 | 2.693E-06 | 1600 |
| 122.0 | 6.2 | 1882 | 1.806E-06 | 4.697E-06 | 1600 | 122.0 | 6.2 | 1197 | 1.149E-06 | 2.988E-06 | 1600 |
| 122.0 | 9.3 | 1235 | 1.186E-06 | 3.084E-06 | 1600 | 122.0 | 9.3 | 1292 | 1.240E-06 | 3.224E-06 | 1600 |
| 122.0 | 12.4 | 1401 | 1.345E-06 | 3.497E-06 | 1600 | 122.0 | 12.4 | 1173 | 1.127E-06 | 2.929E-06 | 1600 |
| 122.0 | 15.5 | 1752 | 1.682E-06 | 4.374E-06 | 1600 | 122.0 | 15.5 | 984 | 9.453E-07 | 2.458E-06 | 1600 |
| 122.0 | 18.6 | 1284 | 1.232E-06 | 3.204E-06 | 1600 | 122.0 | 18.6 | 961 | 9.226E-07 | 2.399E-06 | 1600 |
| 122.0 | 21.7 | 1489 | 1.429E-06 | 3.717E-06 | 1600 | 122.0 | 21.7 | 630 | 6.053E-07 | 1.574E-06 | 1600 |
| 122.0 | 24.8 | 1063 | 1.020E-06 | 2.652E-06 | 1600 | 122.0 | 24.8 | 630 | 6.053E-07 | 1.574E-06 | 1600 |
| 122.0 | 31.0 | 1050 | 1.008E-06 | 2.621E-06 | 1600 | 122.0 | 31.0 | 583 | 5.599E-07 | 1.456E-06 | 1600 |
| 122.0 | 37.2 | 866 | 8.316E-07 | 2.162E-06 | 1600 | 122.0 | 37.2 | 439 | 4.216E-07 | 1.096E-06 | 1600 |
| 122.0 | 43.4 | 737 | 7.079E-07 | 1.841E-06 | 1600 | 122.0 | 43.4 | 725 | 6.959E-07 | 1.809E-06 | 1600 |
| 122.0 | 49.6 | 419 | 4.030E-07 | 1.048E-06 | 1600 | 122.0 | 49.6 | 311 | 2.992E-07 | 7.780E-07 | 1600 |
| 122.0 | 55.8 | 531 | 5.097E-07 | 1.325E-06 | 1600 | 122.0 | 55.8 | 263 | 2.720E-07 | 7.073E-07 | 1600 |
| 122.0 | 62.0 | 273 | 2.621E-07 | 6.815E-07 | 1600 | 122.0 | 62.0 | 184 | 1.768E-07 | 4.597E-07 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 130.0 | .2 | 2335 | 2.241E-06 | 5.827E-06 | 1600 | 130.0 | .2 | 1282 | 1.231E-06 | 3.200E-06 | 1600 |
| 130.0 | .4 | 1764 | 1.694E-06 | 4.403E-06 | 1600 | 130.0 | .4 | 1094 | 1.050E-06 | 2.730E-06 | 1600 |
| 130.0 | .8 | 1442 | 1.385E-06 | 3.600E-06 | 1600 | 130.0 | .8 | 1433 | 1.376E-06 | 3.578E-06 | 1600 |
| 130.0 | 1.5 | 2205 | 2.116E-06 | 5.502E-06 | 1600 | 130.0 | 1.5 | 1764 | 1.693E-06 | 4.403E-06 | 1600 |
| 130.0 | 1.6 | 1452 | 1.394E-06 | 3.624E-06 | 1600 | 130.0 | 1.6 | 937 | 8.999E-07 | 2.340E-06 | 1600 |
| 130.0 | 3.1 | 1650 | 1.584E-06 | 4.118E-06 | 1600 | 130.0 | 3.1 | 796 | 7.639E-07 | 1.986E-06 | 1600 |
| 130.0 | 6.2 | 1729 | 1.660E-06 | 4.315E-06 | 1600 | 130.0 | 6.2 | 989 | 9.500E-07 | 2.470E-06 | 1600 |
| 130.0 | 9.3 | 1495 | 1.436E-06 | 3.733E-06 | 1600 | 130.0 | 9.3 | 796 | 7.639E-07 | 1.986E-06 | 1600 |
| 130.0 | 12.4 | 1283 | 1.232E-06 | 3.202E-06 | 1600 | 130.0 | 12.4 | 517 | 4.964E-07 | 1.291E-06 | 1600 |
| 130.0 | 15.5 | 1156 | 1.109E-06 | 2.885E-06 | 1600 | 130.0 | 15.5 | 725 | 6.959E-07 | 1.809E-06 | 1600 |
| 130.0 | 18.6 | 857 | 8.233E-07 | 2.141E-06 | 1600 | 130.0 | 18.6 | 677 | 6.506E-07 | 1.692E-06 | 1600 |
| 130.0 | 21.7 | 889 | 8.536E-07 | 2.219E-06 | 1600 | 130.0 | 21.7 | 607 | 5.826E-07 | 1.515E-06 | 1600 |
| 130.0 | 24.8 | 990 | 9.509E-07 | 2.472E-06 | 1600 | 130.0 | 24.8 | 725 | 6.959E-07 | 1.809E-06 | 1600 |
| 130.0 | 31.0 | 697 | 6.695E-07 | 1.741E-06 | 1600 | 130.0 | 31.0 | 677 | 6.506E-07 | 1.692E-06 | 1600 |
| 130.0 | 37.2 | 645 | 6.198E-07 | 1.612E-06 | 1600 | 130.0 | 37.2 | 460 | 4.420E-07 | 1.149E-06 | 1600 |
| 130.0 | 43.4 | 533 | 5.124E-07 | 1.332E-06 | 1600 | 130.0 | 43.4 | 255 | 2.448E-07 | 6.365E-07 | 1600 |
| 130.0 | 49.6 | 431 | 4.143E-07 | 1.077E-06 | 1600 | 130.0 | 49.6 | 347 | 3.332E-07 | 8.664E-07 | 1600 |
| 130.0 | 55.8 | 388 | 3.726E-07 | 9.689E-07 | 1600 | 130.0 | 55.8 | 181 | 1.745E-07 | 4.538E-07 | 1600 |
| 130.0 | 62.0 | 334 | 3.208E-07 | 8.340E-07 | 1600 | 130.0 | 62.0 | 226 | 2.176E-07 | 5.658E-07 | 1600 |



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TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 1315 | 1.262E-06 | 3.281E-06 | 3200 |
| 98.0 | .4 | 1417 | 1.360E-06 | 3.537E-06 | 3200 |
| 98.0 | .8 | 1359 | 1.304E-06 | 3.392E-06 | 3200 |
| 98.0 | 1.5 | [illegible] | 1.125E-06 | 2.924E-06 | 3200 |
| 98.0 | 1.6 | 1278 | 1.227E-06 | 3.190E-06 | 3200 |
| 98.0 | 3.1 | 1687 | 1.619E-06 | 4.210E-06 | 3200 |
| 98.0 | 6.2 | 1579 | 1.516E-06 | 3.941E-06 | 3200 |
| 98.0 | 9.3 | 196 | 1.886E-07 | 4.902E-07 | 3200 |
| 98.0 | 12.4 | 1315 | 1.263E-06 | 3.284E-06 | 3200 |
| 98.0 | 15.5 | 661 | 6.350E-07 | 1.651E-06 | 3200 |
| 98.0 | 18.6 | 570 | 5.479E-07 | 1.424E-06 | 3200 |
| 98.0 | 21.7 | 311 | 2.988E-07 | 7.770E-07 | 3200 |
| 98.0 | 24.8 | 102 | 9.872E-08 | 2.567E-07 | 3200 |
| S 98.0 | 31.0 | 63 | 6.137E-08 | 1.596E-07 | 3200 |
| 98.0 | 37.2 | 65 | 6.315E-08 | 1.642E-07 | 3200 |
| 98.0 | 43.4 | 28 | 2.716E-08 | 7.061E-08 | 3200 |
| 98.0 | 49.6 | 32 | 3.139E-08 | 8.161E-08 | 3200 |
| 98.0 | 55.8 | 14 | 1.348E-08 | 3.506E-08 | 3200 |
| 98.0 | 62.0 | 1 | 1.523E-09 | 3.961E-09 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 3 106.0 | .2 | 471 | 4.530E-07 | 1.178E-06 | 3200 |
| 4 106.0 | .4 | 346 | 3.326E-07 | 8.648E-07 | 3200 |
| 4 106.0 | .8 | 370 | 3.559E-07 | 9.254E-07 | 3200 |
| E 106.0 | 1.5 | 776 | 7.454E-07 | 1.938E-06 | 3200 |
| 6 106.0 | 1.6 | 100 | 9.690E-08 | 2.519E-07 | 3200 |
| 5 106.0 | 3.1 | 350 | 3.364E-07 | 8.745E-07 | 3200 |
| 106.0 | 6.2 | 843 | 8.097E-07 | 2.105E-06 | 3200 |
| 106.0 | 9.3 | 808 | 7.755E-07 | 2.016E-06 | 3200 |
| 106.0 | 12.4 | 780 | 7.489E-07 | 1.947E-06 | 3200 |
| 106.0 | 15.5 | 658 | 6.324E-07 | 1.644E-06 | 3200 |
| 106.0 | 18.6 | 528 | 5.070E-07 | 1.318E-06 | 3200 |
| 106.0 | 21.7 | 522 | 5.016E-07 | 1.304E-06 | 3200 |
| 106.0 | 24.8 | 493 | 4.732E-07 | 1.230E-06 | 3200 |
| 106.0 | 31.0 | 403 | 3.869E-07 | 1.006E-06 | 3200 |
| 106.0 | 37.2 | 310 | 2.979E-07 | 7.747E-07 | 3200 |
| 106.0 | 43.4 | 326 | 3.132E-07 | 8.142E-07 | 3200 |
| 106.0 | 49.6 | 287 | 2.759E-07 | 7.173E-07 | 3200 |
| 106.0 | 55.8 | 293 | 2.816E-07 | 7.321E-07 | 3200 |
| 106.0 | 62.0 | 58 | 5.636E-08 | 1.465E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 753 | 7.230E-07 | 1.880E-06 | 3200 |
| 114.0 | .4 | 999 | 9.588E-07 | 2.493E-06 | 3200 |
| 114.0 | .8 | 656 | 6.299E-07 | 1.638E-06 | 3200 |
| 114.0 | 1.5 | 950 | 9.122E-07 | 2.372E-06 | 3200 |
| 114.0 | 1.6 | 919 | 8.824E-07 | 2.294E-06 | 3200 |
| 114.0 | 3.1 | 1574 | 1.511E-06 | 3.929E-06 | 3200 |
| 114.0 | 6.2 | 1492 | 1.432E-06 | 3.723E-06 | 3200 |
| 114.0 | 9.3 | 1867 | 1.792E-06 | 4.660E-06 | 3200 |
| 114.0 | 12.4 | 1820 | 1.747E-06 | 4.542E-06 | 3200 |
| 114.0 | 15.5 | 1758 | 1.687E-06 | 4.387E-06 | 3200 |
| 114.0 | 18.6 | 1648 | 1.582E-06 | 4.114E-06 | 3200 |
| 114.0 | 21.7 | 1853 | 1.779E-06 | 4.625E-06 | 3200 |
| 114.0 | 24.8 | 1657 | 1.590E-06 | 4.135E-06 | 3200 |
| 114.0 | 31.0 | 1230 | 1.181E-06 | 3.071E-06 | 3200 |
| 114.0 | 37.2 | 1192 | 1.145E-06 | 2.976E-06 | 3200 |
| 114.0 | 43.4 | 1144 | 1.098E-06 | 2.855E-06 | 3200 |
| 114.0 | 49.6 | 1035 | 9.937E-07 | 2.584E-06 | 3200 |
| 114.0 | 55.8 | 586 | 5.632E-07 | 1.464E-06 | 3200 |
| 114.0 | 62.0 | 522 | 5.012E-07 | 1.303E-06 | 3200 |

TOWER DATA FOLLOW....

TEST D3 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC U= 2.6 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 1297 | 1.246E-06 | 3.239E-06 | 3200 |
| 98.0 | .4 | 1320 | 1.267E-06 | 3.294E-06 | 3200 |
| 98.0 | .8 | 1297 | 1.246E-06 | 3.239E-06 | 3200 |
| 98.0 | 1.5 | 1387 | 1.332E-06 | 3.462E-06 | 3200 |
| 98.0 | 1.6 | 1522 | 1.461E-06 | 3.798E-06 | 3200 |
| 98.0 | 3.1 | 1611 | 1.547E-06 | 4.022E-06 | 3200 |
| 98.0 | 6.2 | 1432 | 1.375E-06 | 3.574E-06 | 3200 |
| 98.0 | 9.3 | 157 | 1.507E-07 | 3.918E-07 | 3200 |
| 98.0 | 12.4 | 849 | 8.150E-07 | 2.119E-06 | 3200 |
| 98.0 | 15.5 | 781 | 7.504E-07 | 1.951E-06 | 3200 |
| 98.0 | 18.6 | 509 | 4.890E-07 | 1.271E-06 | 3200 |
| 98.0 | 21.7 | 295 | 2.840E-07 | 7.383E-07 | 3200 |
| 98.0 | 24.8 | 147 | 1.415E-07 | 3.678E-07 | 3200 |
| S 98.0 | 31.0 | 50 | 4.818E-08 | 1.253E-07 | 3200 |
| 98.0 | 37.2 | 50 | 4.818E-08 | 1.253E-07 | 3200 |
| 98.0 | 43.4 | 54 | 5.228E-08 | 1.359E-07 | 3200 |
| 98.0 | 49.6 | 14 | 1.384E-08 | 3.598E-08 | 3200 |
| 98.0 | 55.8 | 6 | 6.151E-09 | 1.599E-08 | 3200 |
| 98.0 | 62.0 | 20 | 1.968E-08 | 5.118E-08 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 3 106.0 | .2 | 541 | 5.198E-07 | 1.351E-06 | 3200 |
| 4 106.0 | .4 | 659 | 6.325E-07 | 1.645E-06 | 3200 |
| 4 106.0 | .8 | 605 | 5.813E-07 | 1.511E-06 | 3200 |
| E 106.0 | 1.5 | 804 | 7.720E-07 | 2.007E-06 | 3200 |
| 6 106.0 | 1.6 | 595 | 5.710E-07 | 1.485E-06 | 3200 |
| 5 106.0 | 3.1 | 691 | 6.633E-07 | 1.725E-06 | 3200 |
| 106.0 | 6.2 | 744 | 7.145E-07 | 1.858E-06 | 3200 |
| 106.0 | 9.3 | 573 | 5.505E-07 | 1.431E-06 | 3200 |
| 106.0 | 12.4 | 562 | 5.403E-07 | 1.405E-06 | 3200 |
| 106.0 | 15.5 | 509 | 4.890E-07 | 1.271E-06 | 3200 |
| 106.0 | 18.6 | 456 | 4.377E-07 | 1.138E-06 | 3200 |
| 106.0 | 21.7 | 498 | 4.788E-07 | 1.245E-06 | 3200 |
| 106.0 | 24.8 | 274 | 2.635E-07 | 6.850E-07 | 3200 |
| 106.0 | 31.0 | 263 | 2.532E-07 | 6.584E-07 | 3200 |
| 106.0 | 37.2 | 263 | 2.532E-07 | 6.584E-07 | 3200 |
| 106.0 | 43.4 | 211 | 2.030E-07 | 5.278E-07 | 3200 |
| 106.0 | 49.6 | 201 | 1.938E-07 | 5.038E-07 | 3200 |
| 106.0 | 55.8 | 272 | 2.614E-07 | 6.797E-07 | 3200 |
| 106.0 | 62.0 | 8 | 7.996E-09 | 2.079E-08 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 691 | 6.633E-07 | 1.725E-06 | 3200 |
| 114.0 | .4 | 1275 | 1.224E-06 | 3.183E-06 | 3200 |
| 114.0 | .8 | 808 | 7.761E-07 | 2.018E-06 | 3200 |
| 114.0 | 1.5 | 915 | 8.786E-07 | 2.287E-06 | 3200 |
| 114.0 | 1.6 | 979 | 9.401E-07 | 2.444E-06 | 3200 |
| 114.0 | 3.1 | 1073 | 1.030E-06 | 2.679E-06 | 3200 |
| 114.0 | 6.2 | 2083 | 1.999E-06 | 5.198E-06 | 3200 |
| 114.0 | 9.3 | 1253 | 1.203E-06 | 3.127E-06 | 3200 |
| 114.0 | 12.4 | 1926 | 1.848E-06 | 4.806E-06 | 3200 |
| 114.0 | 15.5 | 1477 | 1.418E-06 | 3.686E-06 | 3200 |
| 114.0 | 18.6 | 1434 | 1.369E-06 | 4.078E-06 | 3200 |
| 114.0 | 21.7 | 1253 | 1.203E-06 | 3.127E-06 | 3200 |
| 114.0 | 24.8 | 3159 | 3.032E-06 | 7.884E-06 | 3200 |
| 114.0 | 31.0 | 1454 | 1.396E-06 | 3.630E-06 | 3200 |
| 114.0 | 37.2 | 1028 | 9.872E-07 | 2.567E-06 | 3200 |
| 114.0 | 43.4 | 1230 | 1.181E-06 | 3.071E-06 | 3200 |
| 114.0 | 49.6 | 983 | 9.442E-07 | 2.455E-06 | 3200 |
| 114.0 | 55.8 | 573 | 5.505E-07 | 1.431E-06 | 3200 |
| 114.0 | 62.0 | 552 | 5.300E-07 | 1.378E-06 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 776 | 7.455E-07 | 1.938E-06 | 3200 |
| 122.0 | .4 | 665 | 6.382E-07 | 1.659E-06 | 3200 |
| 122.0 | .8 | 306 | 2.944E-07 | 7.655E-07 | 3200 |
| 122.0 | 1.5 | 585 | 5.618E-07 | 1.461E-06 | 3200 |
| H 122.0 | 1.6 | 470 | 4.519E-07 | 1.175E-06 | 3200 |
| H 122.0 | 3.1 | 1070 | 1.028E-06 | 2.672E-06 | 3200 |
| H 122.0 | 6.2 | 1418 | 1.361E-06 | 3.539E-06 | 3200 |
| 122.0 | 9.3 | 1426 | 1.369E-06 | 3.559E-06 | 3200 |
| 122.0 | 12.4 | 1410 | 1.354E-06 | 3.519E-06 | 3200 |
| 122.0 | 15.5 | 1206 | 1.158E-06 | 3.011E-06 | 3200 |
| 122.0 | 18.6 | 1062 | 1.020E-06 | 2.652E-06 | 3200 |
| 122.0 | 21.7 | 972 | 9.330E-07 | 2.426E-06 | 3200 |
| 122.0 | 24.8 | 691 | 6.635E-07 | 1.725E-06 | 3200 |
| 122.0 | 31.0 | 515 | 4.945E-07 | 1.286E-06 | 3200 |
| 122.0 | 37.2 | 443 | 4.260E-07 | 1.108E-06 | 3200 |
| 122.0 | 43.4 | 449 | 4.311E-07 | 1.121E-06 | 3200 |
| 122.0 | 49.6 | 370 | 3.560E-07 | 9.256E-07 | 3200 |
| 122.0 | 55.8 | 219 | 2.110E-07 | 5.486E-07 | 3200 |
| 122.0 | 62.0 | 155 | 1.493E-07 | 3.881E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 936 | 8.991E-07 | 2.338E-06 | 3200 |
| 122.0 | .4 | 797 | 7.658E-07 | 1.991E-06 | 3200 |
| 122.0 | .8 | 851 | 8.171E-07 | 2.124E-06 | 3200 |
| 122.0 | 1.5 | 883 | 8.478E-07 | 2.204E-06 | 3200 |
| H 122.0 | 1.6 | 1454 | 1.396E-06 | 3.630E-06 | 3200 |
| H 122.0 | 3.1 | 1163 | 1.116E-06 | 2.903E-06 | 3200 |
| H 122.0 | 6.2 | 1275 | 1.224E-06 | 3.183E-06 | 3200 |
| 122.0 | 9.3 | 1140 | 1.095E-06 | 2.847E-06 | 3200 |
| 122.0 | 12.4 | 938 | 9.011E-07 | 2.343E-06 | 3200 |
| 122.0 | 15.5 | 871 | 8.365E-07 | 2.175E-06 | 3200 |
| 122.0 | 18.6 | 669 | 6.428E-07 | 1.671E-06 | 3200 |
| 122.0 | 21.7 | 849 | 8.150E-07 | 2.119E-06 | 3200 |
| 122.0 | 24.8 | 776 | 7.453E-07 | 1.938E-06 | 3200 |
| 122.0 | 31.0 | 477 | 4.583E-07 | 1.191E-06 | 3200 |
| 122.0 | 37.2 | 359 | 3.455E-07 | 8.983E-07 | 3200 |
| 122.0 | 43.4 | 424 | 4.070E-07 | 1.058E-06 | 3200 |
| 122.0 | 49.6 | 327 | 3.147E-07 | 8.183E-07 | 3200 |
| 122.0 | 55.8 | 189 | 1.815E-07 | 4.718E-07 | 3200 |
| 122.0 | 62.0 | 176 | 1.692E-07 | 4.398E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 529 | 5.078E-07 | 1.320E-06 | 3200 |
| 130.0 | .4 | 507 | 4.873E-07 | 1.267E-06 | 3200 |
| 130.0 | .8 | 333 | 3.196E-07 | 8.309E-07 | 3200 |
| 130.0 | 1.5 | 322 | 3.093E-07 | 8.043E-07 | 3200 |
| 130.0 | 1.6 | 213 | 2.050E-07 | 5.330E-07 | 3200 |
| 130.0 | 3.1 | 602 | 5.786E-07 | 1.504E-06 | 3200 |
| 130.0 | 6.2 | 980 | 9.411E-07 | 2.447E-06 | 3200 |
| 130.0 | 9.3 | 907 | 8.707E-07 | 2.264E-06 | 3200 |
| 130.0 | 12.4 | 865 | 8.307E-07 | 2.160E-06 | 3200 |
| 130.0 | 15.5 | 782 | 7.506E-07 | 1.952E-06 | 3200 |
| 130.0 | 18.6 | 793 | 7.613E-07 | 1.979E-06 | 3200 |
| 130.0 | 21.7 | 613 | 5.888E-07 | 1.531E-06 | 3200 |
| 130.0 | 24.8 | 711 | 6.831E-07 | 1.776E-06 | 3200 |
| 130.0 | 31.0 | 556 | 5.345E-07 | 1.390E-06 | 3200 |
| 130.0 | 37.2 | 369 | 3.549E-07 | 9.227E-07 | 3200 |
| 130.0 | 43.4 | 482 | 4.634E-07 | 1.205E-06 | 3200 |
| 130.0 | 49.6 | 265 | 2.552E-07 | 6.636E-07 | 3200 |
| 130.0 | 55.8 | 360 | 3.458E-07 | 8.991E-07 | 3200 |
| 130.0 | 62.0 | 253 | 2.437E-07 | 6.337E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 530 | 5.095E-07 | 1.325E-06 | 3200 |
| 130.0 | .4 | 424 | 4.070E-07 | 1.058E-06 | 3200 |
| 130.0 | .8 | 262 | 2.522E-07 | 6.557E-07 | 3200 |
| 4 130.0 | 1.5 | 530 | 5.095E-07 | 1.325E-06 | 3200 |
| 130.0 | 1.6 | 562 | 5.403E-07 | 1.405E-06 | 3200 |
| 130.0 | 3.1 | 712 | 6.838E-07 | 1.778E-06 | 3200 |
| 130.0 | 6.2 | 1230 | 1.181E-06 | 3.071E-06 | 3200 |
| 130.0 | 9.3 | 781 | 7.504E-07 | 1.951E-06 | 3200 |
| 130.0 | 12.4 | 647 | 6.213E-07 | 1.615E-06 | 3200 |
| 130.0 | 15.5 | 616 | 5.915E-07 | 1.538E-06 | 3200 |
| 130.0 | 18.6 | 509 | 4.890E-07 | 1.271E-06 | 3200 |
| 130.0 | 21.7 | 584 | 5.608E-07 | 1.458E-06 | 3200 |
| 130.0 | 24.8 | 573 | 5.505E-07 | 1.431E-06 | 3200 |
| 130.0 | 31.0 | 424 | 4.070E-07 | 1.058E-06 | 3200 |
| 130.0 | 37.2 | 338 | 3.250E-07 | 8.449E-07 | 3200 |
| 130.0 | 43.4 | 306 | 2.942E-07 | 7.650E-07 | 3200 |
| 130.0 | 49.6 | 306 | 2.942E-07 | 7.650E-07 | 3200 |
| 130.0 | 55.8 | 240 | 2.307E-07 | 5.997E-07 | 3200 |
| 130.0 | 62.0 | 243 | 2.337E-07 | 6.077E-07 | 3200 |



1202696

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL GROUND LEVEL SAMPLING TRUNCATED SIGNIFICANTLY ON NORTH.
TEST TERMINATED AFTER 16 MINUTES BECAUSE SURFACE WIND SPEED DROPPED TO CALM.
TRACER ON MOST TOWERS..BUT FREQUENTLY LIGHT AND SPOTTY.

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 68.0 | 12791 | 2.799E-05 | 3.919E-05 | 200 |
| | 70.0 | 11509 | 2.519E-05 | 3.526E-05 | 200 |
| | 72.0 | 14191 | 3.105E-05 | 4.348E-05 | 200 |
| | 74.0 | 11577 | 2.533E-05 | 3.547E-05 | 200 |
| | 76.0 | 11336 | 2.481E-05 | 3.473E-05 | 200 |
| | 78.0 | 24117 | 5.277E-05 | 7.388E-05 | 200 |
| | 80.0 | 36681 | 8.027E-05 | 1.124E-04 | 200 |
| | 82.0 | 53988 | 1.181E-04 | 1.654E-04 | 200 |
| | 84.0 | 95514 | 2.090E-04 | 2.926E-04 | 200 |
| | 86.0 | 138912 | 3.040E-04 | 4.256E-04 | 200 |
| | 88.0 | 170216 | 3.725E-04 | 5.214E-04 | 200 |
| | 90.0 | 124916 | 2.733E-04 | 3.827E-04 | 200 |
| | 92.0 | 66905 | 1.464E-04 | 2.050E-04 | 200 |
| 4 | 94.0 | 22209 | 4.860E-05 | 6.804E-05 | 200 |
| 5 | 96.0 | 4683 | 1.025E-05 | 1.435E-05 | 200 |
| | 98.0 | 3588 | 7.851E-06 | 1.099E-05 | 200 |
| | 100.0 | 1586 | 3.472E-06 | 4.861E-06 | 200 |
| | 102.0 | 909 | 1.989E-06 | 2.785E-06 | 200 |
| | 104.0 | 346 | 7.591E-07 | 1.063E-06 | 200 |
| | 106.0 | 369 | 8.083E-07 | 1.132E-06 | 200 |
| | 108.0 | 0 | 0. | 0. | 200 |
| | 110.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.232E-02 SEC/SQ.M 1.725E-02 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 68.0 | 16789 | 3.674E-05 | 5.144E-05 | 200 |
| | 70.0 | 15390 | 3.368E-05 | 4.715E-05 | 200 |
| | 72.0 | 22543 | 4.933E-05 | 6.906E-05 | 200 |
| | 74.0 | 17023 | 3.725E-05 | 5.215E-05 | 200 |
| | 76.0 | 17489 | 3.827E-05 | 5.358E-05 | 200 |
| | 78.0 | 29912 | 6.545E-05 | 9.164E-05 | 200 |
| | 80.0 | 51602 | 1.129E-04 | 1.581E-04 | 200 |
| | 82.0 | 205679 | 4.501E-04 | 6.301E-04 | 200 |
| | 84.0 | 290249 | 6.351E-04 | 8.892E-04 | 200 |
| | 86.0 | 439097 | 9.608E-04 | 1.345E-03 | 200 |
| | 88.0 | 394443 | 8.631E-04 | 1.208E-03 | 200 |
| | 90.0 | 200940 | 4.397E-04 | 6.156E-04 | 200 |
| | 92.0 | 179501 | 3.928E-04 | 5.499E-04 | 200 |
| 4 | 94.0 | 46648 | 1.021E-04 | 1.429E-04 | 200 |
| 5 | 96.0 | 14223 | 3.112E-05 | 4.357E-05 | 200 |
| | 98.0 | 4115 | 9.006E-06 | 1.261E-05 | 200 |
| | 100.0 | 1845 | 4.039E-06 | 5.655E-06 | 200 |
| | 102.0 | 186 | 4.092E-07 | 5.728E-07 | 200 |
| | 104.0 | 52 | 1.142E-07 | 1.599E-07 | 200 |
| | 106.0 | 109 | 2.390E-07 | 3.346E-07 | 200 |
| I | 108.0 | 19 | 4.294E-08 | 6.012E-08 | 200 |
| I | 110.0 | 25 | 5.591E-08 | 7.827E-08 | 200 |

CROSSWIND INTEGRATED= 2.976E-02 SEC/SQ.M 4.166E-02 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 70.0 | 5633 | 1.233E-05 | 1.726E-05 | 800 |
| | 72.0 | 4129 | 9.036E-06 | 1.265E-05 | 800 |
| | 74.0 | 4527 | 9.907E-06 | 1.387E-05 | 800 |
| | 76.0 | 5064 | 1.108E-05 | 1.552E-05 | 800 |
| | 78.0 | 4319 | 9.451E-06 | 1.323E-05 | 800 |
| | 80.0 | 2423 | 5.304E-06 | 7.425E-06 | 800 |
| | 82.0 | 3076 | 6.731E-06 | 9.424E-06 | 800 |
| | 84.0 | 2178 | 4.766E-06 | 6.673E-06 | 800 |
| | 86.0 | 2510 | 5.494E-06 | 7.691E-06 | 800 |
| | 88.0 | 1301 | 2.849E-06 | 3.989E-06 | 800 |
| | 90.0 | 341 | 7.479E-07 | 1.047E-06 | 800 |
| | 92.0 | 354 | 7.751E-07 | 1.085E-06 | 800 |
| | 94.0 | 198 | 4.352E-07 | 6.092E-07 | 800 |
| | 96.0 | 139 | 3.060E-07 | 4.284E-07 | 800 |
| | 98.0 | 257 | 5.643E-07 | 7.901E-07 | 800 |
| | 100.0 | 77 | 1.700E-07 | 2.380E-07 | 800 |
| | 102.0 | 0 | 0. | 0. | 800 |
| | 104.0 | 71 | 1.564E-07 | 2.189E-07 | 800 |
| | 106.0 | 12 | 2.720E-08 | 3.808E-08 | 800 |
| | 108.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 2.238E-03 SEC/SQ.M 3.133E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 70.0 | 6011 | 1.316E-05 | 1.842E-05 | 800 |
| | 72.0 | 5034 | 1.102E-05 | 1.542E-05 | 800 |
| | 74.0 | 4432 | 9.699E-06 | 1.358E-05 | 800 |
| | 76.0 | 5560 | 1.217E-05 | 1.703E-05 | 800 |
| | 78.0 | 6764 | 1.480E-05 | 2.072E-05 | 800 |
| | 80.0 | 3078 | 6.736E-06 | 9.431E-06 | 800 |
| | 82.0 | 3830 | 8.382E-06 | 1.173E-05 | 800 |
| | 84.0 | 3604 | 7.888E-06 | 1.104E-05 | 800 |
| | 86.0 | 2627 | 5.749E-06 | 8.049E-06 | 800 |
| | 88.0 | 2107 | 4.612E-06 | 6.457E-06 | 800 |
| | 90.0 | 1176 | 2.575E-06 | 3.604E-06 | 800 |
| | 92.0 | 832 | 1.822E-06 | 2.551E-06 | 800 |
| | 94.0 | 316 | 6.936E-07 | 9.711E-07 | 800 |
| | 96.0 | 145 | 3.174E-07 | 4.444E-07 | 800 |
| | 98.0 | 256 | 5.604E-07 | 7.845E-07 | 800 |
| | 100.0 | 170 | 3.723E-07 | 5.212E-07 | 800 |
| | 102.0 | 17 | 2.919E-08 | 5.486E-08 | 800 |
| | 104.0 | 1 | 2.586E-09 | 3.621E-09 | 800 |
| | 106.0 | 25 | 5.643E-08 | 7.900E-08 | 800 |
| | 108.0 | 0 | 1.176E-09 | 1.646E-09 | 800 |

CROSSWIND INTEGRATED= 2.811E-03 SEC/SQ.M 3.935E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 70.0 | 1410 | 3.086E-06 | 4.321E-06 | 1600 |
| | 71.0 | 1356 | 2.969E-06 | 4.156E-06 | 1600 |
| | 72.0 | 1223 | 2.678E-06 | 3.749E-06 | 1600 |
| | 73.0 | 1902 | 4.162E-06 | 5.827E-06 | 1600 |
| | 74.0 | 2443 | 5.346E-06 | 7.484E-06 | 1600 |
| | 75.0 | 2668 | 5.839E-06 | 8.175E-06 | 1600 |
| | 76.0 | 2550 | 5.581E-06 | 7.813E-06 | 1600 |
| | 77.0 | 2299 | 5.031E-06 | 7.044E-06 | 1600 |
| | 78.0 | 2378 | 5.205E-06 | 7.287E-06 | 1600 |
| | 79.0 | 2260 | 4.947E-06 | 6.925E-06 | 1600 |
| | 80.0 | 2155 | 4.716E-06 | 6.603E-06 | 1600 |
| | 81.0 | 2662 | 5.825E-06 | 8.155E-06 | 1600 |
| | 82.0 | 1919 | 4.200E-06 | 5.880E-06 | 1600 |
| | 83.0 | 1983 | 4.341E-06 | 6.077E-06 | 1600 |
| | 84.0 | 2254 | 4.932E-06 | 6.905E-06 | 1600 |
| | 85.0 | 3765 | 8.240E-06 | 1.154E-05 | 1600 |
| | 86.0 | 1245 | 2.725E-06 | 3.814E-06 | 1600 |
| | 87.0 | 1820 | 3.984E-06 | 5.577E-06 | 1600 |
| | 88.0 | 1373 | 3.006E-06 | 4.209E-06 | 1600 |
| | 89.0 | 1092 | 2.391E-06 | 3.348E-06 | 1600 |
| | 90.0 | 792 | 1.733E-06 | 2.427E-06 | 1600 |
| | 91.0 | 1300 | 2.847E-06 | 3.985E-06 | 1600 |
| | 92.0 | 944 | 2.067E-06 | 2.894E-06 | 1600 |
| | 93.0 | 463 | 1.015E-06 | 1.421E-06 | 1600 |
| | 94.0 | 197 | 4.322E-07 | 6.051E-07 | 1600 |
| | 95.0 | 272 | 5.966E-07 | 8.352E-07 | 1600 |
| | 96.0 | 55 | 1.221E-07 | 1.710E-07 | 1600 |
| | 97.0 | 137 | 3.006E-07 | 4.209E-07 | 1600 |
| | 98.0 | 62 | 1.362E-07 | 1.907E-07 | 1600 |
| | 99.0 | 40 | 8.925E-08 | 1.250E-07 | 1600 |
| | 100.0 | 23 | 5.167E-08 | 7.234E-08 | 1600 |
| | 101.0 | 0 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 2.753E-03 SEC/SQ.M 3.855E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 70.0 | 1508 | 3.300E-06 | 4.620E-06 | 1600 |
| | 71.0 | 1720 | 3.765E-06 | 5.271E-06 | 1600 |
| | 72.0 | 1697 | 3.714E-06 | 5.199E-06 | 1600 |
| | 73.0 | 2027 | 4.437E-06 | 6.212E-06 | 1600 |
| | 74.0 | 1980 | 4.334E-06 | 6.067E-06 | 1600 |
| | 75.0 | 2724 | 5.962E-06 | 8.347E-06 | 1600 |
| | 76.0 | 2327 | 5.094E-06 | 7.131E-06 | 1600 |
| | 77.0 | 2575 | 5.636E-06 | 7.891E-06 | 1600 |
| | 78.0 | 2625 | 5.745E-06 | 8.043E-06 | 1600 |
| | 79.0 | 2278 | 4.985E-06 | 6.979E-06 | 1600 |
| | 80.0 | 2774 | 6.071E-06 | 8.499E-06 | 1600 |
| | 81.0 | 2675 | 5.853E-06 | 8.195E-06 | 1600 |
| | 82.0 | 2179 | 4.768E-06 | 6.675E-06 | 1600 |
| | 83.0 | 2129 | 4.660E-06 | 6.523E-06 | 1600 |
| | 84.0 | 1881 | 4.117E-06 | 5.764E-06 | 1600 |
| | 85.0 | 2030 | 4.442E-06 | 6.219E-06 | 1600 |
| | 86.0 | 2145 | 4.696E-06 | 6.574E-06 | 1600 |
| | 87.0 | 2027 | 4.437E-06 | 6.212E-06 | 1600 |
| | 88.0 | 1791 | 3.920E-06 | 5.489E-06 | 1600 |
| | 89.0 | 1201 | 2.628E-06 | 3.680E-06 | 1600 |
| | 90.0 | 1413 | 3.093E-06 | 4.331E-06 | 1600 |
| | 91.0 | 1059 | 2.318E-06 | 3.245E-06 | 1600 |
| | 92.0 | 775 | 1.698E-06 | 2.377E-06 | 1600 |
| | 93.0 | 435 | 9.536E-07 | 1.335E-06 | 1600 |
| | 94.0 | 492 | 1.078E-06 | 1.509E-06 | 1600 |
| | 95.0 | 126 | 2.765E-07 | 3.871E-07 | 1600 |
| | 96.0 | 135 | 2.972E-07 | 4.161E-07 | 1600 |
| | 97.0 | 37 | 8.218E-08 | 1.151E-07 | 1600 |
| | 98.0 | 12 | 2.739E-08 | 3.835E-08 | 1600 |
| | 99.0 | 76 | 1.680E-07 | 2.352E-07 | 1600 |
| | 100.0 | 0 | 1.085E-09 | 1.520E-09 | 1600 |
| | 101.0 | 0 | 0. | 0. | 1600 |
| | 102.0 | 0 | 6.202E-10 | 8.683E-10 | 1600 |
| | 103.0 | 0 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 2.864E-03 SEC/SQ.M 4.010E-03 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 71.0 | 251 | 5.510E-07 | 7.714E-07 | 3200 |
| | 72.0 | 240 | 5.264E-07 | 7.370E-07 | 3200 |
| | 73.0 | 287 | 6.290E-07 | 8.807E-07 | 3200 |
| | 74.0 | 237 | 5.197E-07 | 7.276E-07 | 3200 |
| | 75.0 | 314 | 6.893E-07 | 9.650E-07 | 3200 |
| | 76.0 | 251 | 5.510E-07 | 7.714E-07 | 3200 |
| | 77.0 | 251 | 5.510E-07 | 7.714E-07 | 3200 |
| | 78.0 | 258 | 5.666E-07 | 7.932E-07 | 3200 |
| | 79.0 | 283 | 6.201E-07 | 8.682E-07 | 3200 |
| | 80.0 | 314 | 6.893E-07 | 9.650E-07 | 3200 |
| | 81.0 | 335 | 7.339E-07 | 1.027E-06 | 3200 |
| | 82.0 | 305 | 6.692E-07 | 9.369E-07 | 3200 |
| | 83.0 | 290 | 6.357E-07 | 8.900E-07 | 3200 |
| | 84.0 | 318 | 6.960E-07 | 9.744E-07 | 3200 |
| | 85.0 | 196 | 4.305E-07 | 6.027E-07 | 3200 |
| | 86.0 | 301 | 6.603E-07 | 9.244E-07 | 3200 |
| | 87.0 | 241 | 5.287E-07 | 7.401E-07 | 3200 |
| | 88.0 | 126 | 2.766E-07 | 3.872E-07 | 3200 |
| | 89.0 | 165 | 3.614E-07 | 5.059E-07 | 3200 |
| | 90.0 | 86 | 1.896E-07 | 2.654E-07 | 3200 |
| | 91.0 | 77 | 1.695E-07 | 2.373E-07 | 3200 |
| | 92.0 | 42 | 9.369E-08 | 1.312E-07 | 3200 |
| | 93.0 | 33 | 7.361E-08 | 1.031E-07 | 3200 |
| | 94.0 | 4 | 8.923E-09 | 1.249E-08 | 3200 |
| | 95.0 | 11 | 2.454E-08 | 3.435E-08 | 3200 |
| | 96.0 | 8 | 1.785E-08 | 2.498E-08 | 3200 |
| | 97.0 | 15 | 3.346E-08 | 4.684E-08 | 3200 |
| | 98.0 | 10 | 2.231E-08 | 3.123E-08 | 3200 |
| | 99.0 | 12 | 2.677E-08 | 3.748E-08 | 3200 |
| | 100.0 | 4 | 8.923E-09 | 1.249E-08 | 3200 |
| | 101.0 | 0 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 6.453E-04 SEC/SQ.M 9.035E-04 1/M

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 71.0 | 286 | 6.276E-07 | 8.787E-07 | 3200 |
| | 72.0 | 297 | 6.516E-07 | 9.114E-07 | 3200 |
| | 73.0 | 318 | 6.977E-07 | 9.768E-07 | 3200 |
| | 74.0 | 286 | 6.276E-07 | 8.787E-07 | 3200 |
| | 75.0 | 276 | 6.042E-07 | 8.459E-07 | 3200 |
| | 76.0 | 241 | 5.294E-07 | 7.412E-07 | 3200 |
| | 77.0 | 340 | 7.445E-07 | 1.042E-06 | 3200 |
| | 78.0 | 372 | 8.146E-07 | 1.140E-06 | 3200 |
| | 79.0 | 129 | 2.840E-07 | 3.976E-07 | 3200 |
| | 80.0 | 361 | 7.912E-07 | 1.108E-06 | 3200 |
| | 81.0 | 393 | 8.614E-07 | 1.206E-06 | 3200 |
| | 82.0 | 276 | 6.042E-07 | 8.459E-07 | 3200 |
| | 83.0 | 265 | 5.809E-07 | 8.132E-07 | 3200 |
| | 84.0 | 200 | 4.383E-07 | 6.136E-07 | 3200 |
| | 85.0 | 238 | 5.224E-07 | 7.314E-07 | 3200 |
| | 86.0 | 270 | 5.925E-07 | 8.296E-07 | 3200 |
| | 87.0 | 123 | 2.700E-07 | 3.780E-07 | 3200 |
| | 88.0 | 161 | 3.541E-07 | 4.956E-07 | 3200 |
| | 89.0 | 52 | 1.157E-07 | 1.620E-07 | 3200 |
| | 90.0 | 158 | 3.471E-07 | 4.860E-07 | 3200 |
| | 91.0 | 129 | 2.840E-07 | 3.976E-07 | 3200 |
| | 92.0 | 25 | 5.540E-08 | 7.756E-08 | 3200 |
| | 93.0 | 18 | 4.067E-08 | 5.694E-08 | 3200 |
| | 94.0 | 11 | 2.454E-08 | 3.436E-08 | 3200 |
| | 95.0 | 40 | 8.766E-08 | 1.227E-07 | 3200 |
| | 96.0 | 2 | 5.844E-09 | 8.181E-09 | 3200 |
| | 97.0 | 16 | 3.506E-08 | 4.909E-08 | 3200 |
| | 98.0 | 0 | 4.909E-10 | 6.872E-10 | 3200 |
| | 99.0 | 50 | 1.110E-07 | 1.554E-07 | 3200 |
| | 100.0 | 9 | 2.174E-08 | 3.043E-08 | 3200 |
| | 101.0 | 3 | 6.181E-09 | 1.145E-08 | 3200 |

CROSSWIND INTEGRATED= 6.553E-04 SEC/SQ.M 9.174E-04 1/M



1202698

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 2932 | 6.418E-06 | 8.985E-06 | 200 |
| 98.0 | .7 | 5865 | 1.284E-05 | 1.797E-05 | 200 |
| 98.0 | 1.5 | 3588 | 7.851E-06 | 1.099E-05 | 200 |
| 98.0 | 1.4 | 2356 | 5.157E-06 | 7.220E-06 | 200 |
| 98.0 | 2.7 | 7452 | 1.631E-05 | 2.283E-05 | 200 |
| 98.0 | 4.1 | 10204 | 2.233E-05 | 3.126E-05 | 200 |
| 98.0 | 5.4 | 11519 | 2.521E-05 | 3.529E-05 | 200 |
| 98.0 | 6.8 | 4166 | 9.116E-06 | 1.276E-05 | 200 |
| 98.0 | 8.1 | 11561 | 2.530E-05 | 3.542E-05 | 200 |
| 98.0 | 9.5 | 16893 | 3.697E-05 | 5.175E-05 | 200 |
| 98.0 | 10.8 | 18444 | 4.036E-05 | 5.651E-05 | 200 |
| 98.0 | 13.5 | 24932 | 5.456E-05 | 7.638E-05 | 200 |
| 98.0 | 16.2 | 31593 | 6.913E-05 | 9.678E-05 | 200 |
| 98.0 | 18.9 | 25861 | 5.659E-05 | 7.923E-05 | 200 |
| 98.0 | 21.6 | 29957 | 6.555E-05 | 9.177E-05 | 200 |
| 98.0 | 24.3 | 8785 | 1.922E-05 | 2.691E-05 | 200 |
| 98.0 | 27.0 | 22490 | 4.921E-05 | 6.890E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 106.0 | .3 | 70 | 1.546E-07 | 2.165E-07 | 200 |
| E 106.0 | .7 | 176 | 3.866E-07 | 5.412E-07 | 200 |
| 106.0 | 1.5 | 369 | 8.083E-07 | 1.132E-06 | 200 |
| E 106.0 | 1.4 | 353 | 7.732E-07 | 1.082E-06 | 200 |
| E 106.0 | 2.7 | 551 | 1.206E-06 | 1.689E-06 | 200 |
| 106.0 | 4.1 | 402 | 8.814E-07 | 1.234E-06 | 200 |
| 106.0 | 5.4 | 268 | 5.876E-07 | 8.227E-07 | 200 |
| 106.0 | 6.8 | 392 | 8.583E-07 | 1.202E-06 | 200 |
| 106.0 | 8.1 | 194 | 4.253E-07 | 5.954E-07 | 200 |
| 106.0 | 9.5 | 106 | 2.320E-07 | 3.247E-07 | 200 |
| 106.0 | 10.8 | 632 | 1.384E-06 | 1.938E-06 | 200 |
| 106.0 | 13.5 | 628 | 1.376E-06 | 1.927E-06 | 200 |
| 106.0 | 16.2 | 1088 | 2.381E-06 | 3.334E-06 | 200 |
| 106.0 | 18.9 | 1872 | 4.098E-06 | 5.737E-06 | 200 |
| 106.0 | 21.6 | 1459 | 3.193E-06 | 4.471E-06 | 200 |
| 106.0 | 24.3 | 1427 | 3.124E-06 | 4.373E-06 | 200 |
| 106.0 | 27.0 | 1084 | 2.374E-06 | 3.323E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| I 114.0 | .3 | 0 | 0. | 0. | 200 |
| I 114.0 | .7 | 0 | 0. | 0. | 200 |
| I 114.0 | 1.4 | 0 | 0. | 0. | 200 |
| I 114.0 | 2.7 | 477 | 1.044E-06 | 1.461E-06 | 200 |
| 114.0 | 4.1 | 512 | 1.121E-06 | 1.570E-06 | 200 |
| 114.0 | 5.4 | 346 | 7.577E-07 | 1.061E-06 | 200 |
| 114.0 | 6.8 | 310 | 6.804E-07 | 9.526E-07 | 200 |
| 114.0 | 8.1 | 349 | 7.655E-07 | 1.072E-06 | 200 |
| 114.0 | 9.5 | 38 | 8.505E-08 | 1.191E-07 | 200 |
| 114.0 | 10.8 | 141 | 3.093E-07 | 4.330E-07 | 200 |
| 114.0 | 13.5 | 63 | 1.392E-07 | 1.948E-07 | 200 |
| 114.0 | 16.2 | 109 | 2.397E-07 | 3.356E-07 | 200 |
| 114.0 | 18.9 | 45 | 1.005E-07 | 1.407E-07 | 200 |
| 114.0 | 21.6 | 0 | 0. | 0. | 200 |
| 114.0 | 24.3 | 0 | 0. | 0. | 200 |
| 114.0 | 27.0 | 67 | 1.469E-07 | 2.057E-07 | 200 |

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
200M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 3415 | 7.474E-06 | 1.046E-05 | 200 |
| 98.0 | .7 | 4426 | 9.686E-06 | 1.356E-05 | 200 |
| 98.0 | 1.4 | 3726 | 8.155E-06 | 1.142E-05 | 200 |
| 98.0 | 1.5 | 4115 | 9.006E-06 | 1.261E-05 | 200 |
| 98.0 | 2.7 | 6992 | 1.530E-05 | 2.142E-05 | 200 |
| 98.0 | 4.1 | 9091 | 1.989E-05 | 2.785E-05 | 200 |
| 98.0 | 5.4 | 11891 | 2.602E-05 | 3.643E-05 | 200 |
| 98.0 | 6.8 | 7225 | 1.581E-05 | 2.214E-05 | 200 |
| 98.0 | 8.1 | 12357 | 2.704E-05 | 3.786E-05 | 200 |
| 98.0 | 9.5 | 20211 | 4.423E-05 | 6.192E-05 | 200 |
| 98.0 | 10.8 | 20211 | 4.423E-05 | 6.192E-05 | 200 |
| 98.0 | 13.5 | 26431 | 5.784E-05 | 8.097E-05 | 200 |
| 98.0 | 16.2 | 33429 | 7.315E-05 | 1.024E-04 | 200 |
| 98.0 | 18.9 | 26431 | 5.784E-05 | 8.097E-05 | 200 |
| 98.0 | 21.6 | 29542 | 6.464E-05 | 9.050E-05 | 200 |
| T 98.0 | 24.3 | 9325 | 2.041E-05 | 2.857E-05 | 200 |
| 98.0 | 27.0 | 24876 | 5.443E-05 | 7.621E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| I 106.0 | .3 | 0 | 0. | 0. | 200 |
| I 106.0 | .7 | 0 | 0. | 0. | 200 |
| I 106.0 | 1.4 | 0 | 0. | 0. | 200 |
| 106.0 | 1.5 | 109 | 2.390E-07 | 3.346E-07 | 200 |
| I 106.0 | 2.7 | 0 | 0. | 0. | 200 |
| 106.0 | 4.1 | 0 | 9.723E-10 | 1.361E-09 | 200 |
| 106.0 | 5.4 | 0 | 0. | 0. | 200 |
| 106.0 | 6.8 | 201 | 4.416E-07 | 6.182E-07 | 200 |
| 106.0 | 8.1 | 1 | 2.431E-09 | 3.403E-09 | 200 |
| 106.0 | 9.5 | 209 | 4.578E-07 | 6.409E-07 | 200 |
| 106.0 | 10.8 | 124 | 2.714E-07 | 3.800E-07 | 200 |
| 106.0 | 13.5 | 242 | 5.307E-07 | 7.430E-07 | 200 |
| 106.0 | 16.2 | 794 | 1.738E-06 | 2.433E-06 | 200 |
| 106.0 | 18.9 | 805 | 1.762E-06 | 2.467E-06 | 200 |
| 106.0 | 21.6 | 1216 | 2.662E-06 | 3.726E-06 | 200 |
| 106.0 | 24.3 | 1216 | 2.662E-06 | 3.726E-06 | 200 |
| 106.0 | 27.0 | 572 | 1.252E-06 | 1.753E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 114.0 | .3 | 0 | 0. | 0. | 200 |



D4 1202699

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 0 | 0. | 0. | 200 |
| 122.0 | .7 | 0 | 0. | 0. | 200 |
| 122.0 | 1.4 | 0 | 0. | 0. | 200 |
| 122.0 | 2.7 | 0 | 0. | 0. | 200 |
| 122.0 | 4.1 | 614 | 1.345E-06 | 1.884E-06 | 200 |
| 122.0 | 5.4 | 378 | 8.273E-07 | 1.158E-06 | 200 |
| 122.0 | 6.8 | 187 | 4.098E-07 | 5.737E-07 | 200 |
| 122.0 | 8.1 | 342 | 7.500E-07 | 1.050E-06 | 200 |
| 122.0 | 9.5 | 201 | 4.407E-07 | 6.170E-07 | 200 |
| 122.0 | 10.8 | 484 | 1.059E-06 | 1.483E-06 | 200 |
| 122.0 | 13.5 | 378 | 8.273E-07 | 1.158E-06 | 200 |
| 122.0 | 16.2 | 116 | 2.552E-07 | 3.572E-07 | 200 |
| 122.0 | 18.9 | 130 | 2.861E-07 | 4.005E-07 | 200 |
| 122.0 | 21.6 | 0 | 0. | 0. | 200 |
| 122.0 | 24.3 | 8 | 1.965E-08 | 2.751E-08 | 200 |
| 122.0 | 27.0 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 122.0 | .3 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 0 | 0. | 0. | 200 |
| 130.0 | .7 | 21 | 4.639E-08 | 6.495E-08 | 200 |
| 130.0 | 1.4 | 0 | 0. | 0. | 200 |
| 130.0 | 2.7 | 385 | 8.428E-07 | 1.180E-06 | 200 |
| 130.0 | 4.1 | 381 | 8.351E-07 | 1.169E-06 | 200 |
| 130.0 | 5.4 | 812 | 1.778E-06 | 2.490E-06 | 200 |
| 130.0 | 6.8 | 70 | 1.546E-07 | 2.165E-07 | 200 |
| 130.0 | 8.1 | 360 | 7.887E-07 | 1.104E-06 | 200 |
| 130.0 | 9.5 | 173 | 3.789E-07 | 5.304E-07 | 200 |
| 130.0 | 10.8 | 49 | 1.082E-07 | 1.515E-07 | 200 |
| 130.0 | 13.5 | 21 | 4.639E-08 | 6.495E-08 | 200 |
| 130.0 | 16.2 | 0 | 0. | 0. | 200 |
| 130.0 | 18.9 | 88 | 1.933E-07 | 2.706E-07 | 200 |
| 130.0 | 21.6 | 0 | 0. | 0. | 200 |
| 130.0 | 24.3 | 0 | 0. | 0. | 200 |
| 130.0 | 27.0 | 17 | 3.866E-08 | 5.412E-08 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .3 | 0 | 0. | 0. | 200 |

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 51 | 1.122E-07 | 1.571E-07 | 800 |
| 98.0 | .5 | 107 | 2.351E-07 | 3.291E-07 | 800 |
| 98.0 | 1.1 | 263 | 5.770E-07 | 8.078E-07 | 800 |
| 98.0 | 1.5 | 257 | 5.643E-07 | 7.901E-07 | 800 |
| 98.0 | 2.1 | 251 | 5.507E-07 | 7.710E-07 | 800 |
| 98.0 | 4.2 | 966 | 2.115E-06 | 2.960E-06 | 800 |
| 98.0 | 6.3 | 1052 | 2.302E-06 | 3.223E-06 | 800 |
| 98.0 | 8.4 | 686 | 1.502E-06 | 2.103E-06 | 800 |
| 98.0 | 10.5 | 1193 | 2.612E-06 | 3.656E-06 | 800 |
| 98.0 | 12.6 | 1489 | 3.260E-06 | 4.564E-06 | 800 |
| 98.0 | 14.7 | 1536 | 3.363E-06 | 4.708E-06 | 800 |
| 98.0 | 16.8 | 1893 | 4.142E-06 | 5.799E-06 | 800 |
| 98.0 | 21.0 | 3289 | 7.198E-06 | 1.008E-05 | 800 |
| 98.0 | 25.2 | 4321 | 9.457E-06 | 1.324E-05 | 800 |
| 98.0 | 29.4 | 3653 | 7.995E-06 | 1.119E-05 | 800 |
| 98.0 | 33.6 | 4289 | 9.387E-06 | 1.314E-05 | 800 |
| 98.0 | 37.8 | 3916 | 8.570E-06 | 1.200E-05 | 800 |
| 98.0 | 42.0 | 4109 | 8.992E-06 | 1.259E-05 | 800 |

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 42 | 9.405E-06 | 1.317E-07 | 800 |
| 98.0 | .5 | 109 | 2.390E-07 | 3.347E-07 | 800 |
| 98.0 | 1.1 | 209 | 4.585E-07 | 6.419E-07 | 800 |
| 98.0 | 1.5 | 256 | 5.604E-07 | 7.845E-07 | 800 |
| 98.0 | 2.1 | 370 | 8.112E-07 | 1.136E-06 | 800 |
| 98.0 | 4.2 | 316 | 6.936E-07 | 9.711E-07 | 800 |
| 98.0 | 6.3 | 628 | 1.375E-06 | 1.926E-06 | 800 |
| 98.0 | 8.4 | 890 | 1.946E-06 | 2.727E-06 | 800 |
| 98.0 | 10.5 | 843 | 1.846E-06 | 2.584E-06 | 800 |
| 98.0 | 12.6 | 2251 | 4.926E-06 | 6.896E-06 | 800 |
| 98.0 | 14.7 | 2072 | 4.534E-06 | 6.348E-06 | 800 |
| 98.0 | 16.8 | 2852 | 6.243E-06 | 8.740E-06 | 800 |
| 98.0 | 21.0 | 3981 | 8.711E-06 | 1.220E-05 | 800 |
| 98.0 | 25.2 | 5109 | 1.118E-05 | 1.565E-05 | 800 |
| 98.0 | 29.4 | 5410 | 1.184E-05 | 1.657E-05 | 800 |
| 98.0 | 33.6 | 6989 | 1.529E-05 | 2.141E-05 | 800 |
| 98.0 | 37.8 | 7440 | 1.628E-05 | 2.280E-05 | 800 |
| 98.0 | 42.0 | 4281 | 9.370E-06 | 1.312E-05 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 68 | 1.496E-07 | 2.094E-07 | 800 |
| 106.0 | .5 | 16 | 3.562E-08 | 4.986E-08 | 800 |
| 106.0 | 1.1 | 0 | 0. | 0. | 800 |
| 106.0 | 1.5 | 12 | 2.720E-08 | 3.808E-08 | 800 |
| 106.0 | 2.1 | 0 | 0. | 0. | 800 |
| 106.0 | 4.2 | 820 | 1.795E-06 | 2.513E-06 | 800 |
| 106.0 | 6.3 | 425 | 9.300E-07 | 1.302E-06 | 800 |
| 106.0 | 8.4 | 199 | 4.356E-07 | 6.101E-07 | 800 |
| 106.0 | 10.5 | 515 | 1.128E-06 | 1.579E-06 | 800 |
| 106.0 | 12.6 | 153 | 3.366E-07 | 4.712E-07 | 800 |
| 106.0 | 14.7 | 360 | 7.898E-07 | 1.106E-06 | 800 |
| 106.0 | 16.8 | 73 | 1.611E-07 | 2.255E-07 | 800 |
| 106.0 | 21.0 | 58 | 1.271E-07 | 1.779E-07 | 800 |
| 106.0 | 25.2 | 38 | 8.406E-08 | 1.177E-07 | 800 |
| 106.0 | 29.4 | 189 | 4.141E-07 | 5.798E-07 | 800 |
| 106.0 | 33.6 | 71 | 1.575E-07 | 2.205E-07 | 800 |
| 106.0 | 37.8 | 130 | 2.864E-07 | 4.010E-07 | 800 |
| 106.0 | 42.0 | 82 | 1.802E-07 | 2.522E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 0 | 0. | 0. | 800 |
| 106.0 | .5 | 0 | 0. | 0. | 800 |
| 106.0 | 1.1 | 0 | 0. | 0. | 800 |
| 106.0 | 1.5 | 25 | 5.643E-08 | 7.900E-08 | 800 |
| 106.0 | 2.1 | 0 | 0. | 0. | 800 |
| 106.0 | 4.2 | 0 | 0. | 0. | 800 |
| 106.0 | 6.3 | 0 | 0. | 0. | 800 |
| 106.0 | 8.4 | 8 | 1.881E-08 | 2.633E-08 | 800 |
| 106.0 | 10.5 | 6 | 1.489E-08 | 2.085E-08 | 800 |
| 106.0 | 12.6 | 2 | 6.270E-09 | 8.778E-09 | 800 |
| 106.0 | 14.7 | 17 | 3.840E-08 | 5.376E-08 | 800 |
| 106.0 | 16.8 | 0 | 0. | 0. | 800 |
| 106.0 | 21.0 | 2 | 5.643E-09 | 7.900E-09 | 800 |
| 106.0 | 25.2 | 32 | 7.054E-08 | 9.875E-08 | 800 |
| 106.0 | 29.4 | 16 | 3.527E-08 | 4.938E-08 | 800 |
| 106.0 | 33.6 | 130 | 2.861E-07 | 4.005E-07 | 800 |
| 106.0 | 37.8 | 94 | 2.077E-07 | 2.908E-07 | 800 |
| 106.0 | 42.0 | 220 | 4.820E-07 | 6.748E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 27 | 5.983E-08 | 8.377E-08 | 800 |
| 114.0 | .5 | 13 | 2.849E-08 | 3.989E-08 | 800 |
| 114.0 | 1.1 | 0 | 0. | 0. | 800 |
| 114.0 | 2.1 | 0 | 0. | 0. | 800 |
| 114.0 | 4.2 | 472 | 1.034E-06 | 1.447E-06 | 800 |
| 114.0 | 6.3 | 297 | 6.504E-07 | 9.105E-07 | 800 |
| 114.0 | 8.4 | 315 | 6.894E-07 | 9.652E-07 | 800 |
| 114.0 | 10.5 | 273 | 5.983E-07 | 8.377E-07 | 800 |
| 114.0 | 12.6 | 253 | 5.547E-07 | 7.766E-07 | 800 |
| 114.0 | 14.7 | 73 | 1.616E-07 | 2.262E-07 | 800 |
| 114.0 | 16.8 | 78 | 1.726E-07 | 2.416E-07 | 800 |
| 114.0 | 21.0 | 224 | 4.917E-07 | 6.884E-07 | 800 |
| 114.0 | 25.2 | 24 | 5.254E-08 | 7.355E-08 | 800 |
| 114.0 | 29.4 | 89 | 1.949E-07 | 2.728E-07 | 800 |
| 114.0 | 33.6 | 12 | 2.780E-08 | 3.892E-08 | 800 |
| 114.0 | 37.8 | 16 | 3.525E-08 | 4.935E-08 | 800 |
| 114.0 | 42.0 | 30 | 6.704E-08 | 9.386E-08 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 114.0 | .3 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 58 | 1.271E-07 | 1.780E-07 | 800 |
| 122.0 | .5 | 0 | 0. | 0. | 800 |
| 122.0 | 1.1 | 0 | 0. | 0. | 800 |
| 122.0 | 2.1 | 0 | 0. | 0. | 800 |
| 122.0 | 4.2 | 99 | 2.176E-07 | 3.046E-07 | 800 |
| 122.0 | 6.3 | 267 | 5.853E-07 | 8.195E-07 | 800 |
| 122.0 | 8.4 | 109 | 2.406E-07 | 3.369E-07 | 800 |
| 122.0 | 10.5 | 37 | 8.103E-08 | 1.134E-07 | 800 |
| 122.0 | 12.6 | 93 | 2.057E-07 | 2.880E-07 | 800 |
| 122.0 | 14.7 | 139 | 3.052E-07 | 4.272E-07 | 800 |
| 122.0 | 16.8 | 181 | 3.970E-07 | 5.558E-07 | 800 |
| 122.0 | 21.0 | 68 | 1.492E-07 | 2.088E-07 | 800 |
| 122.0 | 25.2 | 151 | 3.310E-07 | 4.634E-07 | 800 |
| 122.0 | 29.4 | 109 | 2.387E-07 | 3.342E-07 | 800 |
| 122.0 | 33.6 | 88 | 1.946E-07 | 2.724E-07 | 800 |
| 122.0 | 37.8 | 38 | 8.372E-08 | 1.172E-07 | 800 |
| 122.0 | 42.0 | 42 | 9.216E-08 | 1.291E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 122.0 | .3 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 0 | 0. | 0. | 800 |
| 130.0 | .5 | 0 | 0. | 0. | 800 |
| 130.0 | 1.1 | 0 | 0. | 0. | 800 |
| 130.0 | 2.1 | 0 | 0. | 0. | 800 |
| 130.0 | 4.2 | 68 | 1.496E-07 | 2.094E-07 | 800 |
| 130.0 | 6.3 | 32 | 7.154E-08 | 1.002E-07 | 800 |
| 130.0 | 8.4 | 20 | 4.553E-08 | 6.374E-08 | 800 |
| 130.0 | 10.5 | 0 | 0. | 0. | 800 |
| 130.0 | 12.6 | 0 | 0. | 0. | 800 |
| 130.0 | 14.7 | 21 | 4.787E-08 | 6.701E-08 | 800 |
| 130.0 | 16.8 | 0 | 0. | 0. | 800 |
| 130.0 | 21.0 | 10 | 2.210E-08 | 3.094E-08 | 800 |
| 130.0 | 25.2 | 9 | 2.101E-08 | 2.942E-08 | 800 |
| 130.0 | 29.4 | 0 | 0. | 0. | 800 |
| 130.0 | 33.6 | 29 | 6.486E-08 | 9.081E-08 | 800 |
| 130.0 | 37.8 | 20 | 4.406E-08 | 6.168E-08 | 800 |
| 130.0 | 42.0 | 34 | 7.542E-08 | 1.056E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .3 | 0 | 0. | 0. | 800 |

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 36 | 7.892E-08 | 1.105E-07 | 1600 |
| 98.0 | .4 | 56 | 1.233E-07 | 1.726E-07 | 1600 |
| 98.0 | .8 | 15 | 3.288E-08 | 4.604E-08 | 1600 |
| 98.0 | 1.5 | 62 | 1.362E-07 | 1.907E-07 | 1600 |
| 98.0 | 1.6 | 113 | 2.490E-07 | 3.486E-07 | 1600 |
| 98.0 | 3.1 | 184 | 4.040E-07 | 5.656E-07 | 1600 |
| 98.0 | 6.2 | 192 | 4.215E-07 | 5.901E-07 | 1600 |
| 98.0 | 9.3 | 375 | 8.206E-07 | 1.149E-06 | 1600 |
| 98.0 | 12.4 | 1250 | 2.735E-06 | 3.829E-06 | 1600 |
| 98.0 | 15.5 | 974 | 2.132E-06 | 2.984E-06 | 1600 |
| 98.0 | 18.6 | 1621 | 3.547E-06 | 4.966E-06 | 1600 |
| 98.0 | 21.7 | 2016 | 4.412E-06 | 6.176E-06 | 1600 |
| E 98.0 | 24.8 | 2188 | 4.788E-06 | 6.703E-06 | 1600 |
| 98.0 | 31.0 | 2151 | 4.708E-06 | 6.591E-06 | 1600 |
| 98.0 | 37.2 | 2044 | 4.474E-06 | 6.264E-06 | 1600 |
| 98.0 | 43.4 | 1778 | 3.892E-06 | 5.449E-06 | 1600 |
| 98.0 | 49.6 | 1670 | 3.655E-06 | 5.117E-06 | 1600 |
| 98.0 | 55.8 | 1227 | 2.685E-06 | 3.759E-06 | 1600 |
| 98.0 | 62.0 | 687 | 1.504E-06 | 2.106E-06 | 1600 |

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .2 | 3 | 6.719E-09 | 9.407E-09 | 1600 |
| 98.0 | .4 | 1 | 2.946E-09 | 4.125E-09 | 1600 |
| 98.0 | .8 | 14 | 3.101E-08 | 4.342E-08 | 1600 |
| 98.0 | 1.6 | 24 | 5.272E-08 | 7.381E-08 | 1600 |
| 98.0 | 3.1 | 40 | 8.838E-08 | 1.237E-07 | 1600 |
| 98.0 | 6.2 | 159 | 3.489E-07 | 4.884E-07 | 1600 |
| 98.0 | 9.3 | 393 | 8.606E-07 | 1.205E-06 | 1600 |
| Z 98.0 | 12.4 | 1720 | 3.765E-06 | 5.271E-06 | 1600 |
| 98.0 | 15.5 | 823 | 1.801E-06 | 2.522E-06 | 1600 |
| 98.0 | 18.6 | 1956 | 4.282E-06 | 5.995E-06 | 1600 |
| 98.0 | 21.7 | 2575 | 5.636E-06 | 7.891E-06 | 1600 |
| T 98.0 | 24.8 | 1236 | 2.706E-06 | 3.788E-06 | 1600 |
| 98.0 | 31.0 | 2972 | 6.505E-06 | 9.107E-06 | 1600 |
| 98.0 | 37.2 | 2575 | 5.636E-06 | 7.891E-06 | 1600 |
| 98.0 | 43.4 | 3022 | 6.613E-06 | 9.259E-06 | 1600 |
| 98.0 | 49.6 | 2228 | 4.877E-06 | 6.827E-06 | 1600 |
| 98.0 | 55.8 | 2129 | 4.660E-06 | 6.523E-06 | 1600 |
| 98.0 | 62.0 | 1768 | 3.869E-06 | 5.416E-06 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 0 | 0. | 0. | 1600 |
| 106.0 | .4 | 0 | 0. | 0. | 1600 |
| 106.0 | .8 | 0 | 0. | 0. | 1600 |
| 106.0 | 1.6 | 4 | 9.395E-09 | 1.315E-08 | 1600 |
| 106.0 | 3.1 | 244 | 5.355E-07 | 7.497E-07 | 1600 |
| 106.0 | 6.2 | 307 | 6.726E-07 | 9.417E-07 | 1600 |
| 106.0 | 9.3 | 75 | 1.659E-07 | 2.323E-07 | 1600 |
| 106.0 | 12.4 | 172 | 3.767E-07 | 5.273E-07 | 1600 |
| 106.0 | 15.5 | 103 | 2.273E-07 | 3.183E-07 | 1600 |
| M 106.0 | 18.6 | 164 | 3.603E-07 | 5.044E-07 | 1600 |
| 106.0 | 21.7 | 97 | 2.133E-07 | 2.986E-07 | 1600 |
| 106.0 | 24.8 | 100 | 2.204E-07 | 3.085E-07 | 1600 |
| 106.0 | 31.0 | 23 | 5.150E-08 | 7.209E-08 | 1600 |
| 106.0 | 37.2 | 61 | 1.345E-07 | 1.884E-07 | 1600 |
| 106.0 | 43.4 | 112 | 2.459E-07 | 3.443E-07 | 1600 |
| 106.0 | 49.6 | 102 | 2.232E-07 | 3.125E-07 | 1600 |
| 106.0 | 55.8 | 88 | 1.931E-07 | 2.703E-07 | 1600 |
| M 106.0 | 62.0 | 30 | 6.686E-08 | 9.360E-08 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .2 | 0 | 0. | 0. | 1600 |
| 106.0 | .4 | 0 | 1.551E-10 | 2.171E-10 | 1600 |
| 106.0 | .8 | 0 | 0. | 0. | 1600 |
| E 106.0 | 1.5 | 0 | 0. | 0. | 1600 |
| 106.0 | 1.6 | 0 | 0. | 0. | 1600 |
| 106.0 | 3.1 | 0 | 0. | 0. | 1600 |
| 106.0 | 6.2 | 0 | 0. | 0. | 1600 |
| 106.0 | 9.3 | 0 | 0. | 0. | 1600 |
| 106.0 | 12.4 | 0 | 0. | 0. | 1600 |
| 106.0 | 15.5 | 0 | 0. | 0. | 1600 |
| L 106.0 | 18.6 | * | . | . | 1600 |
| 106.0 | 21.7 | 4 | 1.034E-08 | 1.447E-08 | 1600 |
| 106.0 | 24.8 | 21 | 4.652E-08 | 6.512E-08 | 1600 |
| 106.0 | 31.0 | 1 | 2.481E-09 | 3.473E-09 | 1600 |
| 106.0 | 37.2 | 0 | 1.085E-09 | 1.520E-09 | 1600 |
| 106.0 | 43.4 | 55 | 1.215E-07 | 1.700E-07 | 1600 |
| 106.0 | 49.6 | 126 | 2.765E-07 | 3.871E-07 | 1600 |
| 106.0 | 55.8 | 133 | 2.920E-07 | 4.088E-07 | 1600 |
| L 106.0 | 62.0 | * | | . | 1600 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .2 | 0 | 0. | 0. | 1600 |
| 114.0 | .4 | 0 | 0. | 0. | 1600 |
| 114.0 | .8 | 0 | 0. | 0. | 1600 |
| 114.0 | 1.6 | 0 | 0. | 0. | 1600 |
| 114.0 | 3.1 | 337 | 7.375E-07 | 1.033E-06 | 1600 |
| 114.0 | 6.2 | 245 | 5.381E-07 | 7.533E-07 | 1600 |
| 114.0 | 9.3 | 102 | 2.242E-07 | 3.139E-07 | 1600 |
| 114.0 | 12.4 | 174 | 3.811E-07 | 5.336E-07 | 1600 |
| 114.0 | 15.5 | 384 | 8.407E-07 | 1.177E-06 | 1600 |
| 114.0 | 18.6 | 305 | 6.691E-07 | 9.367E-07 | 1600 |
| 114.0 | 21.7 | 107 | 2.342E-07 | 3.278E-07 | 1600 |
| 114.0 | 24.8 | 139 | 3.045E-07 | 4.263E-07 | 1600 |
| M 114.0 | 31.0 | 127 | 2.795E-07 | 3.914E-07 | 1600 |
| 114.0 | 37.2 | 96 | 2.104E-07 | 2.946E-07 | 1600 |
| 114.0 | 43.4 | 28 | 6.147E-08 | 8.606E-08 | 1600 |
| 114.0 | 49.6 | 59 | 1.302E-07 | 1.823E-07 | 1600 |
| 114.0 | 55.8 | 48 | 1.069E-07 | 1.497E-07 | 1600 |
| 114.0 | 62.0 | 16 | 3.621E-08 | 5.070E-08 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 114.0 | .2 | 0 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .2 | 0 | 0. | 0. | 1600 |
| 122.0 | .4 | 0 | 0. | 0. | 1600 |
| 122.0 | .8 | 0 | 0. | 0. | 1600 |
| 122.0 | 1.6 | 45 | 9.865E-08 | 1.381E-07 | 1600 |
| 122.0 | 3.1 | 55 | 1.221E-07 | 1.710E-07 | 1600 |
| 122.0 | 6.2 | 145 | 3.184E-07 | 4.457E-07 | 1600 |
| 122.0 | 9.3 | 45 | 9.865E-08 | 1.381E-07 | 1600 |
| 122.0 | 12.4 | 63 | 1.390E-07 | 1.946E-07 | 1600 |
| 122.0 | 15.5 | 56 | 1.244E-07 | 1.741E-07 | 1600 |
| 122.0 | 18.6 | 215 | 4.718E-07 | 6.605E-07 | 1600 |
| 122.0 | 21.7 | 116 | 2.551E-07 | 3.571E-07 | 1600 |
| 122.0 | 24.8 | 205 | 4.487E-07 | 6.282E-07 | 1600 |
| 122.0 | 31.0 | 23 | 5.150E-08 | 7.209E-08 | 1600 |
| 122.0 | 37.2 | 127 | 2.794E-07 | 3.912E-07 | 1600 |
| 122.0 | 43.4 | 56 | 1.229E-07 | 1.721E-07 | 1600 |
| 122.0 | 49.6 | 55 | 1.209E-07 | 1.693E-07 | 1600 |
| 122.0 | 55.8 | 47 | 1.040E-07 | 1.455E-07 | 1600 |
| 122.0 | 62.0 | 34 | 7.522E-08 | 1.053E-07 | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 122.0 | .2 | 0 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 0 | 0. | 0. | 1600 |
| 130.0 | .4 | 0 | 0. | 0. | 1600 |
| 130.0 | .8 | 0 | 0. | 0. | 1600 |
| 130.0 | 1.6 | 0 | 0. | 0. | 1600 |
| 130.0 | 3.1 | 0 | 0. | 0. | 1600 |
| 130.0 | 6.2 | 0 | 0. | 0. | 1600 |
| 130.0 | 9.3 | 0 | 0. | 0. | 1600 |
| 130.0 | 12.4 | 8 | 1.794E-08 | 2.511E-08 | 1600 |
| 130.0 | 15.5 | 0 | 0. | 0. | 1600 |
| 130.0 | 18.6 | 11 | 2.573E-08 | 3.603E-08 | 1600 |
| 130.0 | 21.7 | 17 | 3.764E-08 | 5.269E-08 | 1600 |
| 130.0 | 24.8 | 38 | 8.414E-08 | 1.178E-07 | 1600 |
| 130.0 | 31.0 | 0 | 0. | 0. | 1600 |
| 130.0 | 37.2 | 0 | 0. | 0. | 1600 |
| 130.0 | 43.4 | 16 | 3.559E-08 | 4.983E-08 | 1600 |
| 130.0 | 49.6 | 5 | 1.240E-08 | 1.736E-08 | 1600 |
| 130.0 | 55.8 | 0 | 0. | 0. | 1600 |
| 130.0 | 62.0 | 0 | 0. | 0. | 1600 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .2 | 0 | 0. | 0. | 1600 |

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 98.0 | .2 | 11 | 2.454E-08 | 3.435E-08 | 3200 |
| | 98.0 | .4 | 7 | 1.561E-08 | 2.186E-08 | 3200 |
| | 98.0 | .8 | 9 | 2.008E-08 | 2.811E-08 | 3200 |
| | 98.0 | 1.5 | 10 | 2.231E-08 | 3.123E-08 | 3200 |
| | 98.0 | 1.6 | 7 | 1.561E-08 | 2.186E-08 | 3200 |
| | 98.0 | 3.1 | 8 | 1.785E-08 | 2.498E-08 | 3200 |
| | 98.0 | 6.2 | 0 | 0. | 0. | 3200 |
| | 98.0 | 9.3 | 0 | 0. | 0. | 3200 |
| | 98.0 | 12.4 | 17 | 3.824E-08 | 5.354E-08 | 3200 |
| | 98.0 | 15.5 | 89 | 1.954E-07 | 2.736E-07 | 3200 |
| | 98.0 | 18.6 | 163 | 3.569E-07 | 4.997E-07 | 3200 |
| | 98.0 | 21.7 | 203 | 4.461E-07 | 6.246E-07 | 3200 |
| | 98.0 | 24.8 | 245 | 5.374E-07 | 7.523E-07 | 3200 |
| | 98.0 | 31.0 | 434 | 9.511E-07 | 1.332E-06 | 3200 |
| | 98.0 | 37.2 | 580 | 1.271E-06 | 1.779E-06 | 3200 |
| | 98.0 | 43.4 | 382 | 8.362E-07 | 1.171E-06 | 3200 |
| | 98.0 | 49.6 | 561 | 1.228E-06 | 1.719E-06 | 3200 |
| E | 98.0 | 55.8 | 464 | 1.017E-06 | 1.424E-06 | 3200 |
| | 98.0 | 62.0 | 346 | 7.590E-07 | 1.063E-06 | 3200 |

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 106.0 | .2 | 0 | 0. | 0. | 3200 |
| | 106.0 | .4 | 0 | 0. | 0. | 3200 |
| | 106.0 | .8 | 0 | 0. | 0. | 3200 |
| | 106.0 | 1.6 | 0 | 0. | 0. | 3200 |
| | 106.0 | 3.1 | 0 | 0. | 0. | 3200 |
| | 106.0 | 6.2 | 0 | 0. | 0. | 3200 |
| | 106.0 | 9.3 | 0 | 0. | 0. | 3200 |
| | 106.0 | 12.4 | 0 | 0. | 0. | 3200 |
| | 106.0 | 15.5 | 0 | 0. | 0. | 3200 |
| | 106.0 | 18.6 | 0 | 0. | 0. | 3200 |
| | 106.0 | 21.7 | 7 | 1.700E-08 | 2.379E-08 | 3200 |
| | 106.0 | 24.8 | 16 | 3.650E-08 | 5.110E-08 | 3200 |
| | 106.0 | 31.0 | 11 | 2.433E-08 | 3.407E-08 | 3200 |
| | 106.0 | 37.2 | 7 | 1.552E-08 | 2.172E-08 | 3200 |
| | 106.0 | 43.4 | 12 | 2.825E-08 | 3.955E-08 | 3200 |
| | 106.0 | 49.6 | 27 | 6.049E-08 | 8.469E-08 | 3200 |
| | 106.0 | 55.8 | 37 | 8.207E-08 | 1.149E-07 | 3200 |
| M | 106.0 | 62.0 | 3 | 6.853E-09 | 9.594E-09 | 3200 |

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 114.0 | .2 | 0 | 0. | 0. | 3200 |
| | 114.0 | .4 | 1 | 2.231E-09 | 3.123E-09 | 3200 |
| | 114.0 | .8 | 4 | 8.923E-09 | 1.249E-08 | 3200 |
| | 114.0 | 1.6 | 0 | 0. | 0. | 3200 |
| | 114.0 | 3.1 | 18 | 4.015E-08 | 5.621E-08 | 3200 |
| | 114.0 | 6.2 | 8 | 1.912E-08 | 2.677E-08 | 3200 |
| T | 114.0 | 9.3 | 12 | 2.762E-08 | 3.866E-08 | 3200 |
| | 114.0 | 12.4 | 16 | 3.612E-08 | 5.056E-08 | 3200 |
| M | 114.0 | 15.5 | 29 | 6.373E-08 | 8.923E-08 | 3200 |
| | 114.0 | 18.6 | 29 | 6.373E-08 | 8.923E-08 | 3200 |
| | 114.0 | 21.7 | 69 | 1.530E-07 | 2.141E-07 | 3200 |
| | 114.0 | 24.8 | 27 | 6.084E-08 | 8.517E-08 | 3200 |
| | 114.0 | 31.0 | 5 | 1.217E-08 | 1.703E-08 | 3200 |
| | 114.0 | 37.2 | 33 | 7.371E-08 | 1.032E-07 | 3200 |
| | 114.0 | 43.4 | 14 | 3.202E-08 | 4.482E-08 | 3200 |
| | 114.0 | 49.6 | 39 | 8.616E-08 | 1.206E-07 | 3200 |
| | 114.0 | 55.8 | 13 | 2.855E-08 | 3.997E-08 | 3200 |
| | 114.0 | 62.0 | 18 | 3.941E-08 | 5.517E-08 | 3200 |

TOWER DATA FOLLOW....

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 98.0 | .2 | 3 | 6.779E-09 | 9.490E-09 | 3200 |
| | 98.0 | .4 | 0 | 1.192E-09 | 1.669E-09 | 3200 |
| | 98.0 | .8 | 0 | 1.402E-10 | 1.963E-10 | 3200 |
| | 98.0 | 1.5 | 0 | 4.909E-10 | 6.872E-10 | 3200 |
| | 98.0 | 1.6 | 0 | 0. | 0. | 3200 |
| | 98.0 | 3.1 | 0 | 0. | 0. | 3200 |
| | 98.0 | 6.2 | 0 | 0. | 0. | 3200 |
| | 98.0 | 9.3 | 0 | 0. | 0. | 3200 |
| | 98.0 | 12.4 | 40 | 8.766E-08 | 1.227E-07 | 3200 |
| | 98.0 | 15.5 | 13 | 2.945E-08 | 4.123E-08 | 3200 |
| | 98.0 | 18.6 | 149 | 3.261E-07 | 4.565E-07 | 3200 |
| | 98.0 | 21.7 | 254 | 5.575E-07 | 7.805E-07 | 3200 |
| | 98.0 | 24.8 | 222 | 4.874E-07 | 6.823E-07 | 3200 |
| | 98.0 | 31.0 | 372 | 8.146E-07 | 1.140E-06 | 3200 |
| | 98.0 | 37.2 | 382 | 8.380E-07 | 1.173E-06 | 3200 |
| | 98.0 | 43.4 | 361 | 7.912E-07 | 1.108E-06 | 3200 |
| | 98.0 | 49.6 | 607 | 1.329E-06 | 1.860E-06 | 3200 |
| L | 98.0 | 55.8 | * | . | . | 3200 |
| | 98.0 | 62.0 | 415 | 9.081E-07 | 1.271E-06 | 3200 |

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 106.0 | .2 | 0 | 0. | 0. | 3200 |
| | 106.0 | 3.1 | 0 | 0. | 0. | 3200 |
| | 106.0 | 18.6 | 0 | 0. | 0. | 3200 |
| | 106.0 | 21.7 | 0 | 0. | 0. | 3200 |
| | 106.0 | 24.8 | 0 | 0. | 0. | 3200 |
| | 106.0 | 31.0 | 0 | 0. | 0. | 3200 |
| | 106.0 | 37.2 | 2 | 6.545E-09 | 9.163E-09 | 3200 |
| | 106.0 | 43.4 | 5 | 1.099E-08 | 1.538E-08 | 3200 |
| | 106.0 | 49.6 | 6 | 1.473E-08 | 2.062E-08 | 3200 |
| | 106.0 | 55.8 | 36 | 8.064E-08 | 1.129E-07 | 3200 |
| L | 106.0 | 62.0 | * | . | . | 3200 |

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| N | 114.0 | .2 | 0 | 0. | 0. | 3200 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| W 122.0 | .2 | 0 | 0. | 0. | 3200 |
| W 122.0 | .4 | 0 | 0. | 0. | 3200 |
| W 122.0 | .8 | 0 | 0. | 0. | 3200 |
| W 122.0 | 1.6 | 0 | 0. | 0. | 3200 |
| W 122.0 | 3.1 | 0 | 0. | 0. | 3200 |
| W 122.0 | 6.2 | 0 | 0. | 0. | 3200 |
| 122.0 | 9.3 | 32 | 7.011E-08 | 9.815E-08 | 3200 |
| 122.0 | 12.4 | 44 | 9.772E-08 | 1.368E-07 | 3200 |
| M 122.0 | 15.5 | 0 | 0. | 0. | 3200 |
| 122.0 | 18.6 | 2 | 6.373E-09 | 8.923E-09 | 3200 |
| 122.0 | 21.7 | 24 | 5.311E-08 | 7.436E-08 | 3200 |
| 122.0 | 24.8 | 11 | 2.433E-08 | 3.407E-08 | 3200 |
| 122.0 | 31.0 | 20 | 4.461E-08 | 6.246E-08 | 3200 |
| 122.0 | 37.2 | 3 | 7.759E-09 | 1.086E-08 | 3200 |
| 122.0 | 43.4 | 3 | 7.534E-09 | 1.055E-08 | 3200 |
| 122.0 | 49.6 | 0 | 0. | 0. | 3200 |
| M 122.0 | 55.8 | 25 | 5.531E-08 | 7.744E-08 | 3200 |
| M 122.0 | 62.0 | 46 | 1.028E-07 | 1.439E-07 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 122.0 | .2 | 0 | 0. | 0. | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .2 | 0 | 0. | 0. | 3200 |
| 130.0 | .4 | 0 | 0. | 0. | 3200 |
| 130.0 | .8 | 0 | 0. | 0. | 3200 |
| 130.0 | 1.6 | 0 | 0. | 0. | 3200 |
| 130.0 | 3.1 | 0 | 0. | 0. | 3200 |
| 130.0 | 6.2 | 0 | 0. | 0. | 3200 |
| 130.0 | 9.3 | 4 | 1.062E-08 | 1.487E-08 | 3200 |
| 130.0 | 12.4 | 0 | 0. | 0. | 3200 |
| 130.0 | 15.5 | 0 | 0. | 0. | 3200 |
| 130.0 | 18.6 | 0 | 0. | 0. | 3200 |
| M 130.0 | 21.7 | 6 | 1.487E-08 | 2.082E-08 | 3200 |
| 130.0 | 24.8 | 0 | 0. | 0. | 3200 |
| 130.0 | 31.0 | 0 | 0. | 0. | 3200 |
| 130.0 | 37.2 | 0 | 0. | 0. | 3200 |
| 130.0 | 43.4 | 0 | 0. | 0. | 3200 |
| 130.0 | 49.6 | 10 | 2.383E-08 | 3.336E-08 | 3200 |
| M 130.0 | 55.8 | 0 | 0. | 0. | 3200 |
| M 130.0 | 62.0 | 1 | 3.427E-09 | 4.797E-09 | 3200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .2 | 0 | 0. | 0. | 3200 |

1202705



D4

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. AFTER RELATIVELY MINOR EXTRAPOLATION ON NORTH, BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC; 3 OF 4 TOWERS "HIT" EMBRACE THE VERTICAL EXTENT OF TRACER. DIRECTION SHEAR WITH HEIGHT IS OBVIOUS FROM TOWER SAMPLES.

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 88.0 | 197 | 1.814E-06 | 2.540E-06 | 200 |
| E 90.0 | 4655 | 4.271E-05 | 5.979E-05 | 200 |
| E 92.0 | 29727 | 2.727E-04 | 3.818E-04 | 200 |
| 94.0 | 64034 | 5.875E-04 | 8.225E-04 | 200 |
| 96.0 | 89158 | 8.180E-04 | 1.145E-03 | 200 |
| 98.0 | 137522 | 1.262E-03 | 1.766E-03 | 200 |
| 100.0 | 174669 | 1.602E-03 | 2.243E-03 | 200 |
| 102.0 | 173360 | 1.590E-03 | 2.227E-03 | 200 |
| 104.0 | 168032 | 1.542E-03 | 2.158E-03 | 200 |
| 106.0 | 183920 | 1.687E-03 | 2.362E-03 | 200 |
| 108.0 | 230279 | 2.113E-03 | 2.958E-03 | 200 |
| 110.0 | 211528 | 1.941E-03 | 2.717E-03 | 200 |
| 112.0 | 106533 | 9.774E-04 | 1.368E-03 | 200 |
| 114.0 | 42399 | 3.890E-04 | 5.446E-04 | 200 |
| 116.0 | 17398 | 1.596E-04 | 2.235E-04 | 200 |
| 118.0 | 3365 | 3.088E-05 | 4.323E-05 | 200 |
| 120.0 | 526 | 4.826E-06 | 6.756E-06 | 200 |
| 122.0 | 759 | 6.967E-06 | 9.754E-06 | 200 |
| 124.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.049E-01 SEC/SQ.M 1.469E-01 1/M

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 90.0 | 158 | 1.451E-06 | 2.032E-06 | 800 |
| E 92.0 | 1095 | 1.005E-05 | 1.407E-05 | 800 |
| 94.0 | 3887 | 3.567E-05 | 4.994E-05 | 800 |
| E 96.0 | 7079 | 6.495E-05 | 9.093E-05 | 800 |
| 98.0 | 12648 | 1.160E-04 | 1.625E-04 | 800 |
| 100.0 | 12304 | 1.129E-04 | 1.580E-04 | 800 |
| 102.0 | 18178 | 1.668E-04 | 2.335E-04 | 800 |
| 104.0 | 17379 | 1.594E-04 | 2.232E-04 | 800 |
| 106.0 | 19946 | 1.830E-04 | 2.562E-04 | 800 |
| 108.0 | 20001 | 1.835E-04 | 2.569E-04 | 800 |
| 110.0 | 19431 | 1.783E-04 | 2.496E-04 | 800 |
| 112.0 | 10528 | 9.659E-05 | 1.352E-04 | 800 |
| 114.0 | 3773 | 3.462E-05 | 4.846E-05 | 800 |
| 116.0 | 644 | 5.915E-06 | 8.281E-06 | 800 |
| 118.0 | 59 | 5.443E-07 | 7.620E-07 | 800 |
| 120.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 3.769E-02 SEC/SQ.M 5.277E-02 1/M

TOWER DATA FOLLOW....

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .8 | 162942 | 1.495E-03 | 2.043E-03 | 200 |
| 98.0 | 1.5 | 137522 | 1.262E-03 | 1.766E-03 | 200 |
| 98.0 | 3.0 | 72933 | 6.691E-04 | 9.368E-04 | 200 |
| 98.0 | 6.1 | 5679 | 5.211E-05 | 7.295E-05 | 200 |
| 98.0 | 10.6 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 116.0 | .8 | 31720 | 2.910E-04 | 4.074E-04 | 200 |
| 116.0 | 1.5 | 42399 | 3.890E-04 | 5.446E-04 | 200 |
| 116.0 | 3.0 | 60241 | 5.527E-04 | 7.737E-04 | 200 |
| 116.0 | 6.1 | 51219 | 4.699E-04 | 6.579E-04 | 200 |
| 116.0 | 10.6 | 7139 | 6.550E-05 | 9.170E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .8 | 0 | 0. | 0. | 200 |

TOWER DATA FOLLOW....

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| L 98.0 | .8 | 0 | 0. | 0. | 800 |
| 98.0 | 1.5 | 12649 | 1.160E-04 | 1.625E-04 | 800 |
| 98.0 | 4.6 | 8044 | 7.381E-05 | 1.033E-04 | 800 |
| 98.0 | 10.6 | 711 | 6.532E-06 | 9.144E-06 | 800 |
| 98.0 | 21.0 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 3891 | 3.571E-05 | 4.999E-05 | 800 |
| 114.0 | 1.5 | 3773 | 3.462E-05 | 4.846E-05 | 800 |
| 114.0 | 4.6 | 5996 | 5.501E-05 | 7.701E-05 | 800 |
| 114.0 | 10.6 | 6158 | 5.650E-05 | 7.910E-05 | 800 |
| 114.0 | 21.0 | 59 | 5.443E-07 | 7.620E-07 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .8 | 0 | 0. | 0. | 800 |

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. AFTER RATHER BOLD EXTRAPOLATION ON SOUTH END OF 200M-ARC, BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC, AND ONLY 3 OF THESE INTERCEPT TRACER. NONE OF THE TOWERS EMBRACE THE VERTICAL EXTENT OF THE PLUME DURING THIS UNSTABLE RELEASE.

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 0. | 0. | 200 |
| 112.0 | 98 | 9.072E-07 | 3.719E-06 | 200 |
| 114.0 | 969 | 8.890E-06 | 3.645E-05 | 200 |
| 116.0 | 3931 | 3.607E-05 | 1.479E-04 | 200 |
| 118.0 | 7981 | 7.323E-05 | 3.002E-04 | 200 |
| 120.0 | 13400 | 1.229E-04 | 5.040E-04 | 200 |
| 122.0 | 17727 | 1.625E-04 | 6.659E-04 | 200 |
| 124.0 | 19305 | 1.771E-04 | 7.262E-04 | 200 |
| 126.0 | 20436 | 1.875E-04 | 7.687E-04 | 200 |
| 128.0 | 24229 | 2.223E-04 | 9.114E-04 | 200 |
| 130.0 | 21975 | 2.016E-04 | 8.266E-04 | 200 |
| B 132.0 | 17177 | 1.575E-04 | 6.461E-04 | 200 |
| E 134.0 | 11074 | 1.016E-04 | 4.166E-04 | 200 |
| E 136.0 | 5141 | 4.717E-05 | 1.934E-04 | 200 |
| E 138.0 | 1819 | 1.669E-05 | 6.844E-05 | 200 |
| E 140.0 | 395 | 3.629E-06 | 1.488E-05 | 200 |
| E 142.0 | 31 | 2.903E-07 | 1.190E-06 | 200 |
| E 144.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.061E-02 SEC/SQ.M 4.351E-02 1/M

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 116.0 | 0 | 0. | 0. | 800 |
| 118.0 | 3 | 3.529E-08 | 1.448E-07 | 800 |
| 120.0 | 75 | 5.994E-07 | 2.327E-06 | 800 |
| 122.0 | 755 | 6.931E-06 | 2.842E-05 | 800 |
| 124.0 | 1218 | 1.118E-05 | 4.592E-05 | 800 |
| 126.0 | 1989 | 1.825E-05 | 7.483E-05 | 800 |
| 128.0 | 1914 | 1.756E-05 | 7.201E-05 | 800 |
| 130.0 | 1035 | 9.507E-06 | 3.898E-05 | 800 |
| 132.0 | 241 | 2.213E-06 | 9.075E-06 | 800 |
| E 134.0 | 23 | 2.177E-07 | 8.926E-07 | 800 |
| E 136.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 1.859E-03 SEC/SQ.M 7.624E-03 1/M

TOWER DATA FOLLOW....

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 98.0 | .8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 957 | 3.781E-06 | 3.600E-05 | 200 |
| 114.0 | 1.5 | 969 | 8.830E-06 | 3.545E-05 | 200 |
| 114.0 | 3.0 | 996 | 9.144E-06 | 3.749E-05 | 200 |
| 114.0 | 6.1 | 1194 | 1.096E-05 | 4.493E-05 | 200 |
| 114.0 | 10.6 | 1127 | 1.034E-05 | 4.240E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .8 | 22081 | 2.026E-04 | 8.306E-04 | 200 |
| 130.0 | 1.5 | 21975 | 2.016E-04 | 8.266E-04 | 200 |
| 130.0 | 3.0 | 20895 | 1.917E-04 | 7.850E-04 | 200 |
| G 130.0 | 6.1 | 12454 | 1.143E-04 | 4.685E-04 | 200 |
| 130.0 | 10.6 | 16512 | 1.515E-04 | 6.211E-04 | 200 |

TOWER DATA FOLLOW....

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 98.0 | .8 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 114.0 | .8 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .8 | 1344 | 1.234E-05 | 5.058E-05 | 800 |
| 130.0 | 1.5 | 1036 | 9.507E-06 | 3.898E-05 | 800 |
| 130.0 | 4.6 | 976 | 8.963E-06 | 3.675E-05 | 800 |
| 130.0 | 10.6 | 1123 | 1.031E-05 | 4.225E-05 | 800 |
| 130.0 | 21.0 | 779 | 7.148E-06 | 2.931E-05 | 800 |

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. BOTH ARCS SEVERELY TRUNCATED AT SOUTH END. ONLY 3 TOWERS SAMPLING AT EACH ARC! 5 OFTHE 6 TOWERS INTERCEPT TRACER. NO TOWER COMPLETELY EMBRACES THE VERTICAL EXTENT OF TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C3 OCTOBER 23, 1967 1102 TO 1115 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 23 | 9.971E-08 | 8.175E-07 | 200 |
| 96.0 | 308 | 1.295E-06 | 1.063E-05 | 200 |
| 98.0 | 1056 | 4.437E-06 | 3.638E-05 | 200 |
| 100.0 | 1961 | 8.243E-06 | 6.759E-05 | 200 |
| 102.0 | 4081 | 1.715E-05 | 1.406E-04 | 200 |
| 104.0 | 5861 | 2.463E-05 | 2.020E-04 | 200 |
| 106.0 | 8361 | 3.513E-05 | 2.881E-04 | 200 |
| 108.0 | 9777 | 4.108E-05 | 3.369E-04 | 200 |
| 110.0 | 9322 | 3.917E-05 | 3.212E-04 | 200 |
| 112.0 | 9298 | 3.907E-05 | 3.204E-04 | 200 |
| 114.0 | 9515 | 3.998E-05 | 3.279E-04 | 200 |
| 116.0 | 9472 | 3.980E-05 | 3.264E-04 | 200 |
| 118.0 | 10726 | 4.507E-05 | 3.696E-04 | 200 |
| 120.0 | 17561 | 7.379E-05 | 6.050E-04 | 200 |
| 122.0 | 19253 | 8.090E-05 | 6.634E-04 | 200 |
| 124.0 | 17948 | 7.541E-05 | 6.184E-04 | 200 |
| 126.0 | 16390 | 6.887E-05 | 5.647E-04 | 200 |
| 128.0 | 17541 | 7.370E-05 | 6.044E-04 | 200 |
| 130.0 | 17739 | 7.453E-05 | 6.112E-04 | 200 |
| B 132.0 | 17996 | 7.561E-05 | 6.200E-04 | 200 |

CROSSWIND INTEGRATED= 5.990E-03 SEC/SQ.M 4.912E-02 1/M

TEST C3 OCTOBER 23, 1967 1102 TO 1115 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 800 |
| 104.0 | 241 | 1.014E-06 | 8.313E-05 | 800 |
| 106.0 | 561 | 2.360E-06 | 1.935E-05 | 800 |
| 108.0 | 684 | 2.875E-06 | 2.357E-05 | 800 |
| 110.0 | 251 | 1.097E-06 | 8.994E-06 | 800 |
| E 112.0 | 153 | 6.647E-07 | 5.451E-06 | 800 |
| 114.0 | 106 | 4.437E-07 | 3.639E-06 | 800 |
| 116.0 | 253 | 1.064E-06 | 8.721E-06 | 800 |
| 118.0 | 288 | 1.213E-06 | 9.948E-06 | 800 |
| 120.0 | 399 | 1.678E-06 | 1.376E-05 | 800 |
| 122.0 | 921 | 3.872E-06 | 3.175E-05 | 800 |
| 124.0 | 845 | 3.555E-06 | 2.916E-05 | 800 |
| 126.0 | 1000 | 4.204E-06 | 3.448E-05 | 800 |
| 128.0 | 989 | 4.155E-06 | 3.407E-05 | 800 |
| 130.0 | 845 | 3.555E-06 | 2.916E-05 | 800 |
| B 132.0 | 1249 | 5.251E-06 | 4.306E-05 | 800 |

CROSSWIND INTEGRATED= 1.033E-03 SEC/SQ.M 8.475E-03 1/M

TOWER DATA FOLLOW....

TEST C3 OCTOBER 23, 1967 1102 TO 1116 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC U= 8.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .8 | 1056 | 4.437E-06 | 3.638E-05 | 200 |
| 98.0 | 1.5 | 1056 | 4.437E-06 | 3.638E-05 | 200 |
| 98.0 | 3.0 | 1040 | 4.371E-06 | 3.584E-05 | 200 |
| 98.0 | 6.1 | 775 | 3.257E-06 | 2.671E-05 | 200 |
| 98.0 | 10.6 | 474 | 1.994E-06 | 1.635E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 9634 | 4.048E-05 | 3.320E-04 | 200 |
| 114.0 | 1.5 | 9516 | 3.998E-05 | 3.279E-04 | 200 |
| 114.0 | 3.0 | 9128 | 3.836E-05 | 3.145E-04 | 200 |
| 114.0 | 6.1 | 7724 | 3.246E-05 | 2.661E-04 | 200 |
| 114.0 | 10.6 | 5078 | 2.134E-05 | 1.750E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .8 | 17422 | 7.320E-05 | 6.003E-04 | 200 |
| 130.0 | 1.5 | 17739 | 7.453E-05 | 6.112E-04 | 200 |
| 130.0 | 3.0 | 17003 | 7.144E-05 | 5.858E-04 | 200 |
| 130.0 | 6.1 | 8764 | 3.683E-05 | 3.020E-04 | 200 |
| 130.0 | 10.6 | 13823 | 5.808E-05 | 4.763E-04 | 200 |

TOWER DATA FOLLOW....

TEST C3 OCTOBER 23, 1967 1102 TO 1116 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC U= 8.2 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 98.0 | .8 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 153 | 5.647E-07 | 5.451E-06 | 800 |
| 114.0 | 1.5 | 106 | 4.487E-07 | 3.679E-06 | 800 |
| 114.0 | 4.6 | 142 | 5.983E-07 | 4.906E-06 | 800 |
| 114.0 | 10.6 | 122 | 5.152E-07 | 4.224E-06 | 800 |
| 114.0 | 21.0 | 94 | 3.988E-07 | 3.271E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .8 | 1194 | 5.013E-06 | 4.115E-05 | 800 |
| 130.0 | 1.5 | 846 | 3.556E-06 | 2.916E-05 | 800 |
| 130.0 | 4.6 | 862 | 3.623E-06 | 2.971E-05 | 800 |
| 130.0 | 10.6 | 937 | 3.939E-06 | 3.230E-05 | 800 |
| 130.0 | 21.0 | 541 | 2.277E-06 | 1.867E-05 | 800 |

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. BOTH ARCS TRUNCATED AT SOUTH EDGE. ON 800M-ARC, SUSPECT FURTHER SAMPLING ON SOUTH WOULD HAVE REVEALED A BIMODAL DISTRIBUTION. ONLY 3 TOWERS SAMPLING AT EACH ARC; FOUR TOWERS INTERCEPTED TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.0 | 0 | 0. | 0. | 200 |
| 106.0 | 335 | 1.353E-05 | 5.548E-05 | 200 |
| 108.0 | 1338 | 5.500E-05 | 3.435E-05 | 200 |
| 110.0 | 4287 | 1.880E-05 | 7.710E-05 | 200 |
| 112.0 | 10667 | 4.679E-05 | 1.918E-04 | 200 |
| 114.0 | 13831 | 6.066E-05 | 2.487E-04 | 200 |
| 116.0 | 17054 | 7.480E-05 | 3.067E-04 | 200 |
| 118.0 | 19553 | 8.520E-05 | 3.534E-04 | 200 |
| 120.0 | 22354 | 9.805E-05 | 4.020E-04 | 200 |
| 122.0 | 23762 | 1.042E-04 | 4.273E-04 | 200 |
| 124.0 | 22319 | 9.789E-05 | 4.014E-04 | 200 |
| 126.0 | 18273 | 8.014E-05 | 3.286E-04 | 200 |
| 128.0 | 16572 | 7.269E-05 | 2.980E-04 | 200 |
| 130.0 | 15172 | 6.654E-05 | 2.728E-04 | 200 |
| B 132.0 | 11501 | 5.045E-05 | 2.068E-04 | 200 |

CROSSWIND INTEGRATED= 6.053E-03 SEC/SQ.M 2.482E-02 1/M

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 0. | 0. | 800 |
| 112.0 | 23 | 1.041E-07 | 4.267E-07 | 800 |
| 114.0 | 221 | 9.715E-07 | 3.983E-06 | 800 |
| 116.0 | 917 | 4.025E-06 | 1.650E-05 | 800 |
| 118.0 | 1435 | 6.297E-06 | 2.582E-05 | 800 |
| 120.0 | 1056 | 4.632E-06 | 1.899E-05 | 800 |
| 122.0 | 739 | 3.244E-06 | 1.330E-05 | 800 |
| 124.0 | 423 | 1.856E-06 | 7.610E-06 | 800 |
| 126.0 | 445 | 1.950E-06 | 8.037E-06 | 800 |
| 128.0 | 272 | 1.197E-06 | 4.908E-06 | 800 |
| 130.0 | 94 | 4.163E-07 | 1.707E-06 | 800 |
| B 132.0 | 90 | 3.990E-07 | 1.636E-06 | 800 |

CROSSWIND INTEGRATED= 7.010E-04 SEC/SQ.M 2.874E-03 1/M

TOWER DATA FOLLOW....

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 98.0 | .8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 13597 | 5.964E-05 | 2.445E-04 | 200 |
| 114.0 | 1.5 | 13931 | 6.056E-05 | 2.487E-04 | 200 |
| 114.0 | 3.0 | 13230 | 5.803E-05 | 2.379E-04 | 200 |
| 114.0 | 6.1 | 9864 | 4.326E-05 | 1.774E-04 | 200 |
| 114.0 | 10.6 | 5715 | 2.507E-05 | 1.028E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .8 | 15195 | 6.655E-05 | 2.733E-04 | 200 |
| 130.0 | 1.5 | 15172 | 6.654E-05 | 2.728E-04 | 200 |
| 130.0 | 3.0 | 13935 | 6.134E-05 | 2.515E-04 | 200 |
| 130.0 | 6.1 | 7902 | 3.465E-05 | 1.421E-04 | 200 |
| 130.0 | 10.6 | 10932 | 4.795E-05 | 1.966E-04 | 200 |

TOWER DATA FOLLOW....

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC U= 4.1 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 98.0 | .8 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 0 | 0. | 0. | 800 |
| 114.0 | 1.5 | 221 | 9.715E-07 | 3.983E-06 | 800 |
| 114.0 | 4.6 | 185 | 8.153E-07 | 3.343E-06 | 800 |
| 114.0 | 10.6 | 201 | 8.847E-07 | 3.627E-06 | 800 |
| 114.0 | 21.0 | 221 | 9.715E-07 | 3.983E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .8 | 162 | 7.112E-07 | 2.916E-06 | 800 |
| 130.0 | 1.5 | 94 | 4.153E-07 | 1.707E-06 | 800 |
| 130.0 | 4.5 | 249 | 1.093E-06 | 4.431E-06 | 800 |
| 130.0 | 10.6 | 150 | 6.592E-07 | 2.703E-06 | 800 |
| 130.0 | 21.0 | 134 | 5.898E-07 | 2.418E-06 | 800 |

1202713



C4

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. KRYPTON RELEASED ABOUT 2M TO RIGHT (FACING DOWNWIND) AND 1M BELOW ZNS RELEASE POINT. BOTH ARCS EMBRACE THE CROSSWIND DISTRIBUTION OF TRACER. BOTH TRACER DISTRIBUTIONS EXTENDED ABOVE TOWER TOPS, BUT MAXIMUM CONCENTRATIONS WERE GENERALLY BELOW TOWER TOPS.

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.0 | 0 | 0. | 0. | 200 |
| 90.0 | 31 | 3.166E-08 | 8.865E-08 | 200 |
| 92.0 | 122 | 1.227E-07 | 3.435E-07 | 200 |
| 94.0 | 1226 | 1.227E-06 | 3.435E-06 | 200 |
| 96.0 | 8239 | 8.240E-06 | 2.307E-05 | 200 |
| 98.0 | 43275 | 4.328E-05 | 1.212E-04 | 200 |
| 100.0 | 116818 | 1.168E-04 | 3.271E-04 | 200 |
| 102.0 | 249352 | 2.494E-04 | 6.982E-04 | 200 |
| 104.0 | 282014 | 2.820E-04 | 7.896E-04 | 200 |
| 106.0 | 231729 | 2.317E-04 | 6.488E-04 | 200 |
| 108.0 | 294607 | 2.946E-04 | 8.249E-04 | 200 |
| 110.0 | 250452 | 2.505E-04 | 7.013E-04 | 200 |
| 112.0 | 277023 | 2.770E-04 | 7.757E-04 | 200 |
| 114.0 | 304944 | 3.049E-04 | 8.538E-04 | 200 |
| 116.0 | 275907 | 2.759E-04 | 7.725E-04 | 200 |
| 118.0 | 249285 | 2.493E-04 | 6.980E-04 | 200 |
| 120.0 | 222940 | 2.229E-04 | 6.242E-04 | 200 |
| 122.0 | 135197 | 1.352E-04 | 3.786E-04 | 200 |
| 124.0 | 85273 | 8.527E-05 | 2.388E-04 | 200 |
| 126.0 | 44011 | 4.401E-05 | 1.232E-04 | 200 |
| 128.0 | 13756 | 1.376E-05 | 3.852E-05 | 200 |
| 130.0 | 3898 | 3.898E-06 | 1.091E-05 | 200 |
| 132.0 | 637 | 6.372E-07 | 1.784E-06 | 200 |
| 134.0 | 225 | 2.256E-07 | 6.316E-07 | 200 |
| 136.0 | 102 | 1.029E-07 | 2.881E-07 | 200 |
| 138.0 | 209 | 2.097E-07 | 5.873E-07 | 200 |
| 140.0 | 94 | 9.498E-08 | 2.659E-07 | 200 |
| 142.0 | 170 | 1.702E-07 | 4.765E-07 | 200 |
| 144.0 | 15 | 1.583E-08 | 4.432E-08 | 200 |
| 146.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 2.156E-02 SEC/SQ.M 6.043E-02 1/M

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 59 | 2.908E-07 | 8.145E-07 | 200 |
| 96.0 | 680 | 3.335E-06 | 9.337E-06 | 200 |
| 98.0 | 4552 | 2.232E-05 | 6.248E-05 | 200 |
| 100.0 | 13625 | 6.679E-05 | 1.870E-04 | 200 |
| 102.0 | 32420 | 1.589E-04 | 4.450E-04 | 200 |
| 104.0 | 46691 | 2.289E-04 | 6.409E-04 | 200 |
| 106.0 | 38673 | 1.896E-04 | 5.306E-04 | 200 |
| 108.0 | 38452 | 1.885E-04 | 5.278E-04 | 200 |
| 110.0 | 35794 | 1.755E-04 | 4.913E-04 | 200 |
| 112.0 | 41782 | 2.048E-04 | 5.735E-04 | 200 |
| 114.0 | 47331 | 2.320E-04 | 6.497E-04 | 200 |
| 116.0 | 44713 | 2.192E-04 | 6.137E-04 | 200 |
| 118.0 | 37400 | 1.833E-04 | 5.133E-04 | 200 |
| 120.0 | 31431 | 1.541E-04 | 4.314E-04 | 200 |
| 122.0 | 20290 | 9.946E-05 | 2.785E-04 | 200 |
| 124.0 | 11280 | 5.530E-05 | 1.548E-04 | 200 |
| 126.0 | 4742 | 2.325E-05 | 6.509E-05 | 200 |
| 128.0 | 1135 | 5.564E-06 | 1.558E-05 | 200 |
| 130.0 | 181 | 8.919E-07 | 2.497E-06 | 200 |
| 132.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.544E-02 SEC/SQ.M 4.324E-02 1/M

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 0. | 0. | 800 |
| 98.0 | 914 | 9.149E-07 | 2.562E-06 | 800 |
| 100.0 | 7928 | 7.928E-06 | 2.220E-05 | 800 |
| 102.0 | 9042 | 9.042E-06 | 2.532E-05 | 800 |
| 104.0 | 11365 | 1.137E-05 | 3.182E-05 | 800 |
| 106.0 | 11802 | 1.180E-05 | 3.305E-05 | 800 |
| 108.0 | 14581 | 1.458E-05 | 4.083E-05 | 800 |
| 110.0 | 9486 | 9.486E-06 | 2.656E-05 | 800 |
| 112.0 | 12039 | 1.204E-05 | 3.371E-05 | 800 |
| 114.0 | 22184 | 2.218E-05 | 6.212E-05 | 800 |
| 116.0 | 14692 | 1.469E-05 | 4.114E-05 | 800 |
| 118.0 | 7158 | 7.159E-06 | 2.004E-05 | 800 |
| 120.0 | 593 | 5.934E-07 | 1.661E-06 | 800 |
| 122.0 | 103 | 1.034E-07 | 2.894E-07 | 800 |
| 124.0 | 38 | 3.828E-08 | 1.072E-07 | 800 |
| 126.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 3.405E-03 SEC/SQ.M 9.534E-03 1/M

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 0. | 0. | 800 |
| 98.0 | 55 | 2.714E-07 | 7.600E-07 | 800 |
| 100.0 | 1127 | 5.526E-06 | 1.547E-05 | 800 |
| 102.0 | 2025 | 9.927E-06 | 2.779E-05 | 800 |
| 104.0 | 1289 | 6.321E-06 | 1.770E-05 | 800 |
| 106.0 | 747 | 3.664E-06 | 1.026E-05 | 800 |
| 108.0 | 1835 | 8.996E-06 | 2.519E-05 | 800 |
| 110.0 | 2673 | 1.311E-05 | 3.670E-05 | 800 |
| 112.0 | 3579 | 1.755E-05 | 4.913E-05 | 800 |
| 114.0 | 4038 | 1.980E-05 | 5.543E-05 | 800 |
| 116.0 | 5517 | 2.705E-05 | 7.573E-05 | 800 |
| 118.0 | 6526 | 3.199E-05 | 8.957E-05 | 800 |
| 120.0 | 2827 | 1.386E-05 | 3.882E-05 | 800 |
| 122.0 | 814 | 3.994E-06 | 1.118E-05 | 800 |
| 124.0 | 55 | 2.714E-07 | 7.600E-07 | 800 |
| 126.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 4.533E-03 SEC/SQ.M 1.269E-02 1/M



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TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC U= 2.8 M/SEC AT 2M

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 98.0 | .3 | 11180 | 1.118E-05 | 3.130E-05 | 200 |
| | 98.0 | .7 | 32697 | 3.270E-05 | 9.155E-05 | 200 |
| | 98.0 | 1.4 | 43513 | 4.351E-05 | 1.218E-04 | 200 |
| | 98.0 | 1.5 | 43275 | 4.328E-05 | 1.212E-04 | 200 |
| | 98.0 | 2.7 | 50793 | 5.079E-05 | 1.422E-04 | 200 |
| | 98.0 | 4.1 | 41832 | 4.183E-05 | 1.171E-04 | 200 |
| | 98.0 | 5.4 | 30490 | 3.049E-05 | 8.537E-05 | 200 |
| | 98.0 | 6.8 | 19238 | 1.924E-05 | 5.387E-05 | 200 |
| | 98.0 | 8.1 | 15494 | 1.549E-05 | 4.339E-05 | 200 |
| | 98.0 | 9.5 | 9733 | 9.733E-06 | 2.725E-05 | 200 |
| | 98.0 | 10.8 | 6564 | 6.565E-06 | 1.838E-05 | 200 |
| S | 98.0 | 13.5 | 4007 | 4.008E-06 | 1.122E-05 | 200 |
| S | 98.0 | 16.2 | 2347 | 2.348E-06 | 6.573E-06 | 200 |
| | 98.0 | 18.9 | 2119 | 2.120E-06 | 5.935E-06 | 200 |
| | 98.0 | 21.6 | 960 | 9.606E-07 | 2.690E-06 | 200 |
| | 98.0 | 24.3 | 405 | 4.058E-07 | 1.136E-06 | 200 |
| S | 98.0 | 27.0 | 100 | 1.007E-07 | 2.821E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 172967 | 1.730E-04 | 4.843E-04 | 200 |
| 106.0 | .7 | 261847 | 2.618E-04 | 7.332E-04 | 200 |
| 106.0 | 1.4 | 222809 | 2.228E-04 | 6.239E-04 | 200 |
| 106.0 | 1.5 | 231729 | 2.317E-04 | 6.488E-04 | 200 |
| 106.0 | 2.7 | 260762 | 2.608E-04 | 7.301E-04 | 200 |
| 106.0 | 4.1 | 229356 | 2.294E-04 | 6.422E-04 | 200 |
| 106.0 | 5.4 | 244858 | 2.449E-04 | 6.856E-04 | 200 |
| 106.0 | 6.8 | 199451 | 1.995E-04 | 5.585E-04 | 200 |
| S 106.0 | 8.1 | 153189 | 1.532E-04 | 4.289E-04 | 200 |
| 106.0 | 9.5 | 154614 | 1.546E-04 | 4.329E-04 | 200 |
| 106.0 | 10.8 | 125396 | 1.254E-04 | 3.511E-04 | 200 |
| 106.0 | 13.5 | 112442 | 1.124E-04 | 3.148E-04 | 200 |
| 106.0 | 16.2 | 79579 | 7.958E-05 | 2.228E-04 | 200 |
| 106.0 | 18.9 | 39374 | 3.937E-05 | 1.102E-04 | 200 |
| 106.0 | 21.6 | 23339 | 2.334E-05 | 6.535E-05 | 200 |
| 106.0 | 24.3 | 10859 | 1.086E-05 | 3.041E-05 | 200 |
| 106.0 | 27.0 | 7913 | 7.913E-06 | 2.216E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 277221 | 2.772E-04 | 7.762E-04 | 200 |
| 114.0 | .7 | 296363 | 2.964E-04 | 8.298E-04 | 200 |
| 114.0 | 1.4 | 256575 | 2.566E-04 | 7.184E-04 | 200 |
| 114.0 | 1.5 | 304944 | 3.049E-04 | 8.538E-04 | 200 |
| 114.0 | 2.7 | 254959 | 2.550E-04 | 7.139E-04 | 200 |
| 114.0 | 4.1 | 189984 | 1.900E-04 | 5.320E-04 | 200 |
| 114.0 | 5.4 | 204113 | 2.041E-04 | 5.715E-04 | 200 |
| 114.0 | 6.8 | 163265 | 1.633E-04 | 4.571E-04 | 200 |
| 114.0 | 8.1 | 153006 | 1.530E-04 | 4.284E-04 | 200 |
| 114.0 | 9.5 | 146280 | 1.463E-04 | 4.096E-04 | 200 |
| 114.0 | 10.8 | 120610 | 1.206E-04 | 3.377E-04 | 200 |
| 114.0 | 13.5 | 98883 | 9.888E-05 | 2.769E-04 | 200 |
| 114.0 | 16.2 | 69340 | 6.934E-05 | 1.942E-04 | 200 |
| 114.0 | 18.9 | 47059 | 4.706E-05 | 1.318E-04 | 200 |
| 114.0 | 21.6 | 21217 | 2.122E-05 | 5.941E-05 | 200 |
| 114.0 | 24.3 | 13606 | 1.361E-05 | 3.810E-05 | 200 |
| 114.0 | 27.0 | 7710 | 7.710E-06 | 2.159E-05 | 200 |

TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
200M ARC U= 2.8 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .8 | 4718 | 2.313E-05 | 6.476E-05 | 200 |
| 98.0 | 1.5 | 4552 | 2.232E-05 | 6.248E-05 | 200 |
| 98.0 | 3.0 | 5121 | 2.511E-05 | 7.030E-05 | 200 |
| 98.0 | 6.1 | 2808 | 1.377E-05 | 3.854E-05 | 200 |
| 98.0 | 10.6 | 834 | 4.091E-06 | 1.145E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 48289 | 2.367E-04 | 6.628E-04 | 200 |
| 114.0 | 1.5 | 47331 | 2.320E-04 | 6.497E-04 | 200 |
| 114.0 | 3.0 | 46153 | 2.262E-04 | 6.335E-04 | 200 |
| 114.0 | 6.1 | 38045 | 1.865E-04 | 5.222E-04 | 200 |
| 114.0 | 10.6 | 23339 | 1.144E-04 | 3.203E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 16869 | 1.687E-05 | 4.723E-05 | 200 |
| 122.0 | .7 | 107163 | 1.072E-04 | 3.001E-04 | 200 |
| 122.0 | 1.4 | 99429 | 9.943E-05 | 2.784E-04 | 200 |
| 122.0 | 1.5 | 135197 | 1.352E-04 | 3.786E-04 | 200 |
| 122.0 | 2.7 | 115578 | 1.156E-04 | 3.236E-04 | 200 |
| 122.0 | 4.1 | 95171 | 9.517E-05 | 2.665E-04 | 200 |
| 122.0 | 5.4 | 96032 | 9.603E-05 | 2.689E-04 | 200 |
| 122.0 | 6.8 | 88425 | 8.843E-05 | 2.476E-04 | 200 |
| 122.0 | 8.1 | 88018 | 8.802E-05 | 2.465E-04 | 200 |
| 122.0 | 9.5 | 65495 | 6.550E-05 | 1.834E-04 | 200 |
| 122.0 | 10.8 | 59799 | 5.980E-05 | 1.674E-04 | 200 |
| 122.0 | 13.5 | 43641 | 4.364E-05 | 1.222E-04 | 200 |
| 122.0 | 16.2 | 23803 | 2.380E-05 | 6.665E-05 | 200 |
| 122.0 | 18.9 | 14369 | 1.437E-05 | 4.023E-05 | 200 |
| 122.0 | 21.6 | 11890 | 1.189E-05 | 3.329E-05 | 200 |
| 122.0 | 24.3 | 9372 | 9.373E-06 | 2.624E-05 | 200 |
| 122.0 | 27.0 | 3644 | 3.644E-06 | 1.020E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .3 | 1650 | 1.650E-06 | 4.621E-06 | 200 |
| 130.0 | .7 | 2550 | 2.551E-06 | 7.143E-06 | 200 |
| 130.0 | 1.4 | 2588 | 2.588E-06 | 7.247E-06 | 200 |
| 130.0 | 1.5 | 3898 | 3.898E-06 | 1.091E-05 | 200 |
| 130.0 | 2.7 | 2857 | 2.857E-06 | 8.001E-06 | 200 |
| 130.0 | 4.1 | 4137 | 4.137E-06 | 1.158E-05 | 200 |
| 130.0 | 5.4 | 4582 | 4.582E-06 | 1.283E-05 | 200 |
| 130.0 | 6.8 | 4232 | 4.232E-06 | 1.185E-05 | 200 |
| 130.0 | 8.1 | 4502 | 4.502E-06 | 1.261E-05 | 200 |
| 130.0 | 9.5 | 3530 | 3.531E-06 | 9.886E-06 | 200 |
| 130.0 | 10.8 | 4032 | 4.032E-06 | 1.129E-05 | 200 |
| 130.0 | 13.5 | 3037 | 3.038E-06 | 8.505E-06 | 200 |
| 130.0 | 16.2 | 2762 | 2.762E-06 | 7.735E-06 | 200 |
| 130.0 | 18.9 | 2163 | 2.164E-06 | 6.059E-06 | 200 |
| 130.0 | 21.6 | 1488 | 1.488E-06 | 4.167E-06 | 200 |
| 130.0 | 24.3 | 997 | 9.974E-07 | 2.793E-06 | 200 |
| 130.0 | 27.0 | 486 | 4.866E-07 | 1.363E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 130.0 | .8 | 106 | 5.235E-07 | 1.466E-06 | 200 |
| 130.0 | 1.5 | 181 | 8.919E-07 | 2.497E-06 | 200 |
| 130.0 | 3.0 | 253 | 1.241E-06 | 3.474E-06 | 200 |
| 130.0 | 6.1 | 502 | 2.462E-06 | 6.894E-06 | 200 |
| 130.0 | 10.6 | 605 | 2.966E-06 | 8.306E-06 | 200 |

TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
ZIRC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC U= 2.8 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .3 | 917 | 9.179E-07 | 2.570E-06 | 800 |
| 98.0 | .5 | 740 | 7.407E-07 | 2.074E-06 | 800 |
| 98.0 | 1.1 | 1228 | 1.228E-06 | 3.439E-06 | 800 |
| 98.0 | 1.5 | 914 | 9.149E-07 | 2.562E-06 | 800 |
| 98.0 | 2.1 | 1435 | 1.436E-06 | 4.020E-06 | 800 |
| M 98.0 | 4.2 | 809 | 8.096E-07 | 2.267E-06 | 800 |
| 98.0 | 6.3 | 741 | 7.411E-07 | 2.075E-06 | 800 |
| 98.0 | 8.4 | 527 | 5.278E-07 | 1.478E-06 | 800 |
| 98.0 | 10.5 | 405 | 4.052E-07 | 1.135E-06 | 800 |
| 98.0 | 12.6 | 416 | 4.170E-07 | 1.168E-06 | 800 |
| 98.0 | 14.7 | 137 | 1.371E-07 | 3.839E-07 | 800 |
| 98.0 | 16.8 | 101 | 1.012E-07 | 2.833E-07 | 800 |
| 98.0 | 21.0 | 79 | 7.923E-08 | 2.218E-07 | 800 |
| 98.0 | 25.2 | 52 | 5.221E-08 | 1.462E-07 | 800 |
| 98.0 | 29.4 | 16 | 1.614E-08 | 4.519E-08 | 800 |
| 98.0 | 33.6 | 1 | 1.622E-09 | 4.541E-09 | 800 |
| 98.0 | 37.8 | 0 | 0. | 0. | 800 |
| L 98.0 | 42.0 | 0 | 0. | 0. | 800 |

TOWER DATA FOLLOW....

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
800M ARC U= 2.8 M/SEC AT 2M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 98.0 | .8 | 75 | 3.084E-07 | 1.031E-06 | 800 |
| 98.0 | 1.5 | 55 | 2.714E-07 | 7.600E-07 | 800 |
| 7 98.0 | 4.6 | 162 | 7.949E-07 | 2.226E-06 | 800 |
| 98.0 | 10.6 | 47 | 2.327E-07 | 6.514E-07 | 800 |
| 98.0 | 21.0 | 0 | 0. | 0. | 800 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 106.0 | .3 | 6081 | 6.082E-06 | 1.703E-05 | 800 |
| 106.0 | .5 | 6545 | 6.545E-06 | 1.833E-05 | 800 |
| 106.0 | 1.1 | 7975 | 7.975E-06 | 2.233E-05 | 800 |
| 106.0 | 1.5 | 11802 | 1.180E-05 | 3.305E-05 | 800 |
| 106.0 | 2.1 | 7626 | 7.627E-06 | 2.136E-05 | 800 |
| 106.0 | 4.2 | 9381 | 9.381E-06 | 2.627E-05 | 800 |
| 106.0 | 6.3 | 2982 | 2.982E-06 | 8.350E-06 | 800 |
| 106.0 | 8.4 | 2776 | 2.777E-06 | 7.774E-06 | 800 |
| 106.0 | 10.5 | 4859 | 4.860E-06 | 1.361E-05 | 800 |
| 106.0 | 12.6 | 3634 | 3.634E-06 | 1.018E-05 | 800 |
| 106.0 | 14.7 | 3997 | 3.998E-06 | 1.119E-05 | 800 |
| 106.0 | 16.8 | 4609 | 4.609E-06 | 1.291E-05 | 800 |
| 106.0 | 21.0 | 3125 | 3.125E-06 | 8.751E-06 | 800 |
| 106.0 | 25.2 | 2917 | 2.918E-06 | 8.170E-06 | 800 |
| 106.0 | 29.4 | 2555 | 2.555E-06 | 7.155E-06 | 800 |
| 106.0 | 33.6 | 2628 | 2.629E-06 | 7.360E-06 | 800 |
| 106.0 | 37.8 | 998 | 9.986E-07 | 2.796E-06 | 800 |
| 106.0 | 42.0 | 657 | 6.579E-07 | 1.842E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .3 | 9670 | 9.671E-06 | 2.708E-05 | 800 |
| 114.0 | .5 | 8030 | 8.031E-06 | 2.249E-05 | 800 |
| 114.0 | 1.1 | 11672 | 1.167E-05 | 3.268E-05 | 800 |
| 114.0 | 1.5 | 22184 | 2.218E-05 | 6.212E-05 | 800 |
| 114.0 | 2.1 | 12327 | 1.233E-05 | 3.452E-05 | 800 |
| 114.0 | 4.2 | 10967 | 1.099E-05 | 3.076E-05 | 800 |
| 114.0 | 6.3 | 19739 | 1.974E-05 | 5.527E-05 | 800 |
| 114.0 | 8.4 | 20084 | 2.008E-05 | 5.624E-05 | 800 |
| 114.0 | 10.5 | 18171 | 1.817E-05 | 5.088E-05 | 800 |
| 114.0 | 12.6 | 9450 | 9.450E-06 | 2.646E-05 | 800 |
| 114.0 | 14.7 | 13497 | 1.350E-05 | 3.779E-05 | 800 |
| 114.0 | 16.8 | 12505 | 1.251E-05 | 3.501E-05 | 800 |
| 114.0 | 21.0 | 8825 | 8.826E-06 | 2.471E-05 | 800 |
| 114.0 | 25.2 | 7450 | 7.450E-06 | 2.086E-05 | 800 |
| 114.0 | 29.4 | 4339 | 4.339E-06 | 1.215E-05 | 800 |
| 114.0 | 33.6 | 4561 | 4.562E-06 | 1.277E-05 | 800 |
| 114.0 | 37.8 | 3508 | 3.508E-06 | 9.824E-06 | 800 |
| 114.0 | 42.0 | 3313 | 3.314E-06 | 9.278E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 114.0 | .8 | 5201 | 2.550E-05 | 7.139E-05 | 800 |
| 114.0 | 1.5 | 4038 | 1.980E-05 | 5.543E-05 | 800 |
| 114.0 | 4.6 | 4184 | 2.051E-05 | 5.744E-05 | 800 |
| 114.0 | 10.6 | 3294 | 1.615E-05 | 4.522E-05 | 800 |
| 7 114.0 | 21.0 | 2460 | 1.206E-05 | 3.377E-05 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 122.0 | .3 | 39 | 3.915E-08 | 1.096E-07 | 800 |
| 122.0 | .5 | 83 | 8.322E-08 | 2.330E-07 | 800 |
| 122.0 | 1.1 | 366 | 3.868E-07 | 1.083E-06 | 800 |
| 122.0 | 1.5 | 103 | 1.034E-07 | 2.894E-07 | 800 |
| 122.0 | 2.1 | 599 | 6.000E-07 | 1.680E-06 | 800 |
| 122.0 | 4.2 | 944 | 9.440E-07 | 2.643E-06 | 800 |
| 122.0 | 6.3 | 886 | 8.863E-07 | 2.482E-06 | 800 |
| 122.0 | 8.4 | 1058 | 1.058E-06 | 2.963E-06 | 800 |
| 122.0 | 10.5 | 645 | 6.457E-07 | 1.808E-06 | 800 |
| 122.0 | 12.6 | 1733 | 1.733E-06 | 4.854E-06 | 800 |
| 122.0 | 14.7 | 1113 | 1.114E-06 | 3.118E-06 | 800 |
| 122.0 | 16.8 | 1656 | 1.657E-06 | 4.640E-06 | 800 |
| 122.0 | 21.0 | 1184 | 1.184E-06 | 3.316E-06 | 800 |
| 122.0 | 25.2 | 2273 | 2.274E-06 | 6.367E-06 | 800 |
| 122.0 | 29.4 | 1316 | 1.316E-06 | 3.685E-06 | 800 |
| 122.0 | 33.6 | 758 | 7.589E-07 | 2.125E-06 | 800 |
| 122.0 | 37.8 | 479 | 4.797E-07 | 1.343E-06 | 800 |
| 122.0 | 42.0 | 463 | 4.634E-07 | 1.297E-06 | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .3 | 0 | 0. | 0. | 800 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 130.0 | .8 | 0 | 0. | 0. | 800 |

SAMPLING 200M TO 3200M: NO TOWER SAMPLING. CROSSWIND DISTRIBUTIONS RATHER BOLDLY EXTRAPOLATED ON NORTH FOR ALL ARCS BEYOND 400M. RELATIVELY FLAT OR MULTIMODAL CROSSWIND DISTRIBUTIONS. ZINC SULFIDE DISPERSAL INTERRUPTED FOR ABOUT 2 MIN STARTING AT 0502: FLUORESCEIN ALSO INTERRUPTED FOR ABOUT 45 SEC.

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 10.0 | 0 | 0. | 0. | 200 |
| 14.0 | 2338 | 1.559E-06 | 2.806E-06 | 200 |
| 18.0 | 18811 | 1.254E-05 | 2.257E-05 | 200 |
| 22.0 | 28548 | 1.903E-05 | 3.426E-05 | 200 |
| 26.0 | 23000 | 1.533E-05 | 2.760E-05 | 200 |
| 30.0 | 8590 | 5.727E-06 | 1.031E-05 | 200 |
| 34.0 | 7927 | 5.285E-06 | 9.513E-06 | 200 |
| 38.0 | 35797 | 2.387E-05 | 4.296E-05 | 200 |
| 42.0 | 74214 | 4.948E-05 | 8.906E-05 | 200 |
| 46.0 | 91382 | 6.092E-05 | 1.097E-04 | 200 |
| 50.0 | 79864 | 5.324E-05 | 9.584E-05 | 200 |
| 54.0 | 56269 | 3.751E-05 | 6.752E-05 | 200 |
| 58.0 | 59011 | 3.934E-05 | 7.081E-05 | 200 |
| E 62.0 | 59981 | 3.999E-05 | 7.198E-05 | 200 |
| F 66.0 | 73063 | 4.871E-05 | 8.768E-05 | 200 |
| E 70.0 | 88065 | 5.871E-05 | 1.057E-04 | 200 |
| E 74.0 | 87519 | 5.835E-05 | 1.050E-04 | 200 |
| 78.0 | 73464 | 4.898E-05 | 8.816E-05 | 200 |
| 82.0 | 7318 | 4.879E-06 | 8.782E-06 | 200 |
| 86.0 | 3446 | 2.298E-06 | 4.136E-06 | 200 |
| 90.0 | 181 | 1.210E-07 | 2.178E-07 | 200 |
| 94.0 | 8 | 5.501E-09 | 9.902E-09 | 200 |
| 98.0 | 41 | 2.751E-08 | 4.951E-08 | 200 |
| 102.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 8.181E-03 SEC/SQ.M 1.473E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 10.0 | 0 | 1.297E-10 | 5.577E-10 | 200 |
| 14.0 | 10 | 2.010E-08 | 8.645E-08 | 200 |
| 18.0 | 344 | 6.885E-07 | 2.961E-06 | 200 |
| 22.0 | 189 | 3.794E-07 | 1.631E-06 | 200 |
| 26.0 | 12 | 2.594E-08 | 1.115E-07 | 200 |
| 30.0 | 5 | 1.102E-08 | 4.741E-08 | 200 |
| 34.0 | 3 | 7.350E-09 | 3.160E-08 | 200 |
| 38.0 | 21 | 4.215E-08 | 1.813E-07 | 200 |
| 42.0 | 32 | 6.593E-08 | 2.835E-07 | 200 |
| 46.0 | 72 | 1.459E-07 | 6.274E-07 | 200 |
| 50.0 | 22 | 4.432E-08 | 1.906E-07 | 200 |
| 54.0 | 44 | 8.971E-08 | 3.858E-07 | 200 |
| 58.0 | 92 | 1.848E-07 | 7.948E-07 | 200 |
| E 62.0 | 106 | 2.129E-07 | 9.156E-07 | 200 |
| E 66.0 | 106 | 2.129E-07 | 9.156E-07 | 200 |
| E 70.0 | 106 | 2.129E-07 | 9.156E-07 | 200 |
| E 74.0 | 106 | 2.129E-07 | 9.156E-07 | 200 |
| 78.0 | 63 | 1.265E-07 | 5.438E-07 | 200 |
| 82.0 | 7 | 1.492E-08 | 6.414E-08 | 200 |
| 86.0 | 18 | 3.761E-08 | 1.617E-07 | 200 |
| 90.0 | 2 | 4.972E-09 | 2.138E-08 | 200 |
| 94.0 | 0 | 5.837E-10 | 2.510E-09 | 200 |
| 98.0 | 3 | 7.782E-09 | 3.346E-08 | 200 |
| 4 102.0 | 13 | 2.724E-08 | 1.171E-07 | 200 |

CROSSWIND INTEGRATED= 3.877E-05 SEC/SQ.M 1.667E-04 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
300M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 8.0 | 0 | 0. | 0. | 300 |
| 12.0 | 145 | 9.719E-08 | 1.749E-07 | 300 |
| 16.0 | 8264 | 5.509E-06 | 9.917E-06 | 300 |
| 20.0 | 24014 | 1.601E-05 | 2.882E-05 | 300 |
| 24.0 | 34997 | 2.333E-05 | 4.200E-05 | 300 |
| 28.0 | 20474 | 1.365E-05 | 2.457E-05 | 300 |
| 32.0 | 7485 | 4.991E-06 | 8.983E-06 | 300 |
| 36.0 | 7488 | 4.992E-06 | 8.986E-06 | 300 |
| 40.0 | 34980 | 2.332E-05 | 4.198E-05 | 300 |
| 44.0 | 68923 | 4.598E-05 | 8.259E-05 | 300 |
| 48.0 | 75273 | 5.018E-05 | 9.033E-05 | 300 |
| 52.0 | 50534 | 3.369E-05 | 6.064E-05 | 300 |
| 56.0 | 38060 | 2.537E-05 | 4.567E-05 | 300 |
| 60.0 | 32615 | 2.174E-05 | 3.914E-05 | 300 |
| 64.0 | 54368 | 3.625E-05 | 6.524E-05 | 300 |
| 68.0 | 40876 | 2.725E-05 | 4.905E-05 | 300 |
| 72.0 | 36470 | 2.431E-05 | 4.376E-05 | 300 |
| 76.0 | 35030 | 2.335E-05 | 4.204E-05 | 300 |
| 80.0 | 33505 | 2.234E-05 | 4.021E-05 | 300 |
| 84.0 | 5838 | 3.892E-06 | 7.006E-06 | 300 |
| 88.0 | 94 | 6.326E-08 | 1.139E-07 | 300 |
| 92.0 | 1 | 9.169E-10 | 1.650E-09 | 300 |
| 96.0 | 8 | 5.501E-09 | 9.902E-09 | 300 |
| 100.0 | 0 | 0. | 0. | 300 |

CROSSWIND INTEGRATED= 8.508E-03 SEC/SQ.M 1.531E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
300M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 8.0 | 0 | 6.485E-11 | 2.789E-10 | 300 |
| 12.0 | 0 | 1.297E-10 | 5.577E-10 | 300 |
| 16.0 | 74 | 1.481E-07 | 6.357E-07 | 300 |
| 20.0 | 248 | 4.961E-07 | 2.133E-06 | 300 |
| 24.0 | 333 | 6.669E-07 | 2.868E-06 | 300 |
| 28.0 | 196 | 3.924E-07 | 1.687E-06 | 300 |
| 32.0 | 67 | 1.351E-07 | 5.810E-07 | 300 |
| 36.0 | 24 | 4.864E-08 | 2.091E-07 | 300 |
| 40.0 | 19 | 3.891E-08 | 1.673E-07 | 300 |
| 44.0 | 26 | 5.260E-08 | 2.262E-07 | 300 |
| 48.0 | 55 | 1.102E-07 | 4.741E-07 | 300 |
| 52.0 | 111 | 2.237E-07 | 9.621E-07 | 300 |
| 56.0 | 205 | 4.118E-07 | 1.771E-06 | 300 |
| 60.0 | 290 | 5.804E-07 | 2.496E-06 | 300 |
| 64.0 | 236 | 4.723E-07 | 2.031E-06 | 300 |
| 68.0 | 170 | 3.405E-07 | 1.464E-06 | 300 |
| 72.0 | 268 | 5.372E-07 | 2.310E-06 | 300 |
| 76.0 | 409 | 8.182E-07 | 3.518E-06 | 300 |
| 80.0 | 176 | 3.534E-07 | 1.520E-06 | 300 |
| 84.0 | 11 | 2.335E-08 | 1.004E-07 | 300 |
| 88.0 | 176 | 3.534E-07 | 1.520E-06 | 300 |
| 92.0 | 0 | 7.782E-10 | 3.346E-09 | 300 |
| 96.0 | 0 | 0. | 0. | 300 |
| 100.0 | 2 | 5.188E-09 | 2.231E-08 | 300 |

CROSSWIND INTEGRATED= 1.301E-04 SEC/SQ.M 5.592E-04 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 10.0 | 0 | 0. | 0. | 400 |
| 14.0 | 53 | 3.576E-08 | 6.436E-08 | 400 |
| 18.0 | 10932 | 7.288E-06 | 1.312E-05 | 400 |
| 22.0 | 17601 | 1.173E-05 | 2.112E-05 | 400 |
| 26.0 | 26426 | 1.762E-05 | 3.171E-05 | 400 |
| 30.0 | 14422 | 9.615E-06 | 1.731E-05 | 400 |
| 34.0 | 8209 | 5.473E-06 | 9.851E-06 | 400 |
| 38.0 | 8140 | 5.427E-06 | 9.769E-06 | 400 |
| 42.0 | 22936 | 1.529E-05 | 2.752E-05 | 400 |
| 46.0 | 70484 | 4.699E-05 | 8.458E-05 | 400 |
| 50.0 | 46386 | 3.092E-05 | 5.566E-05 | 400 |
| 54.0 | 43920 | 2.928E-05 | 5.270E-05 | 400 |
| 58.0 | 24616 | 1.641E-05 | 2.954E-05 | 400 |
| 62.0 | 31676 | 2.112E-05 | 3.801E-05 | 400 |
| 66.0 | 28517 | 1.901E-05 | 3.422E-05 | 400 |
| 70.0 | 29866 | 1.991E-05 | 3.584E-05 | 400 |
| 74.0 | 27338 | 1.823E-05 | 3.281E-05 | 400 |
| 78.0 | 34351 | 2.290E-05 | 4.122E-05 | 400 |
| 82.0 | 3119 | 2.079E-06 | 3.743E-06 | 400 |
| 86.0 | 382 | 2.549E-07 | 4.588E-07 | 400 |
| 90.0 | 4 | 2.751E-09 | 4.951E-09 | 400 |
| 94.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 8.366E-03 SEC/SQ.M 1.506E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 10.0 | 0 | 0. | 0. | 400 |
| 14.0 | 0 | 0. | 0. | 400 |
| 18.0 | 215 | 4.313E-07 | 1.854E-06 | 400 |
| 22.0 | 121 | 2.432E-07 | 1.046E-06 | 400 |
| 26.0 | 28 | 5.729E-08 | 2.463E-07 | 400 |
| 30.0 | 71 | 1.438E-07 | 6.181E-07 | 400 |
| 34.0 | 5 | 1.146E-08 | 4.927E-08 | 400 |
| 38.0 | 25 | 5.080E-08 | 2.184E-07 | 400 |
| 42.0 | 42 | 8.539E-08 | 3.672E-07 | 400 |
| 46.0 | 212 | 4.248E-07 | 1.827E-06 | 400 |
| 50.0 | 124 | 2.497E-07 | 1.074E-06 | 400 |
| 54.0 | 365 | 7.317E-07 | 3.147E-06 | 400 |
| 58.0 | 636 | 1.272E-06 | 5.470E-06 | 400 |
| 62.0 | 355 | 7.101E-07 | 3.054E-06 | 400 |
| 66.0 | 225 | 4.507E-07 | 1.938E-06 | 400 |
| 70.0 | 124 | 2.497E-07 | 1.074E-06 | 400 |
| 74.0 | 192 | 3.859E-07 | 1.659E-06 | 400 |
| 78.0 | 257 | 5.156E-07 | 2.217E-06 | 400 |
| 82.0 | 12 | 2.464E-08 | 1.060E-07 | 400 |
| 86.0 | 7 | 1.427E-08 | 6.135E-08 | 400 |
| 90.0 | 17 | 3.502E-08 | 1.506E-07 | 400 |
| 94.0 | 16 | 3.307E-08 | 1.422E-07 | 400 |

CROSSWIND INTEGRATED= 1.709E-04 SEC/SQ.M 7.349E-04 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
500M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 12.0 | 0 | 0. | 0. | 500 |
| T 16.0 | 478 | 3.191E-07 | 5.743E-07 | 500 |
| F 20.0 | 10312 | 6.875E-06 | 1.237E-05 | 500 |
| E 24.0 | 18563 | 1.238E-05 | 2.228E-05 | 500 |
| T 28.0 | 16500 | 1.100E-05 | 1.980E-05 | 500 |
| F 32.0 | 8524 | 5.683E-06 | 1.023E-05 | 500 |
| E 36.0 | 7974 | 5.316E-06 | 9.569E-06 | 500 |
| B 40.0 | 16594 | 1.106E-05 | 1.991E-05 | 500 |
| 44.0 | 58951 | 3.930E-05 | 7.074E-05 | 500 |
| 48.0 | 23520 | 1.568E-05 | 2.822E-05 | 500 |
| 52.0 | 51671 | 3.445E-05 | 6.201E-05 | 500 |
| 56.0 | 53122 | 3.542E-05 | 6.375E-05 | 500 |
| 60.0 | 33417 | 2.228E-05 | 4.010E-05 | 500 |
| 64.0 | 41627 | 2.775E-05 | 4.995E-05 | 500 |
| 68.0 | 31069 | 2.071E-05 | 3.728E-05 | 500 |
| 72.0 | 29321 | 1.955E-05 | 3.519E-05 | 500 |
| 76.0 | 30099 | 2.007E-05 | 3.612E-05 | 500 |
| 80.0 | 10276 | 6.851E-06 | 1.233E-05 | 500 |
| 84.0 | 529 | 3.530E-07 | 6.354E-07 | 500 |
| 88.0 | 16 | 1.100E-08 | 1.980E-08 | 500 |
| 92.0 | 28 | 1.925E-08 | 3.466E-08 | 500 |
| 96.0 | 0 | 0. | 0. | 500 |

CROSSWIND INTEGRATED= 1.031E-02 SEC/SQ.M 1.855E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
500M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 36.0 | 144 | 2.886E-07 | 1.241E-06 | 500 |
| 40.0 | 257 | 5.156E-07 | 2.217E-06 | 500 |
| 44.0 | 131 | 2.627E-07 | 1.129E-06 | 500 |
| 48.0 | 24 | 4.864E-08 | 2.091E-07 | 500 |
| 52.0 | 1541 | 3.084E-06 | 1.326E-05 | 500 |
| 56.0 | 1768 | 3.538E-06 | 1.521E-05 | 500 |
| 60.0 | 1292 | 2.584E-06 | 1.111E-05 | 500 |
| 64.0 | 679 | 1.359E-06 | 5.842E-06 | 500 |
| 68.0 | 656 | 1.313E-06 | 5.647E-06 | 500 |
| 72.0 | 787 | 1.575E-06 | 6.772E-06 | 500 |
| 76.0 | 765 | 1.532E-06 | 6.586E-06 | 500 |
| 80.0 | 141 | 2.821E-07 | 1.213E-06 | 500 |
| 84.0 | 58 | 1.178E-07 | 5.066E-07 | 500 |
| 88.0 | 4 | 8.863E-09 | 3.811E-08 | 500 |
| 92.0 | 3 | 6.053E-09 | 2.603E-08 | 500 |
| 96.0 | 0 | 0. | 0. | 500 |

CROSSWIND INTEGRATED= 5.765E-04 SEC/SQ.M 2.479E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 14.0 | 0 | 0. | 0. | 600 |
| E | 18.0 | 1647 | 1.098E-06 | 1.977E-06 | 600 |
| E | 22.0 | 10999 | 7.333E-06 | 1.320E-05 | 600 |
| E | 26.0 | 16500 | 1.100E-05 | 1.980E-05 | 600 |
| E | 30.0 | 9624 | 6.416E-06 | 1.155E-05 | 600 |
| E | 34.0 | 6598 | 4.399E-06 | 7.918E-06 | 600 |
| E | 38.0 | 8386 | 5.591E-06 | 1.006E-05 | 600 |
| E | 42.0 | 19394 | 1.293E-05 | 2.327E-05 | 600 |
| | 46.0 | 56167 | 3.745E-05 | 6.740E-05 | 600 |
| | 50.0 | 48611 | 3.241E-05 | 5.833E-05 | 600 |
| | 54.0 | 43113 | 2.874E-05 | 5.174E-05 | 600 |
| | 58.0 | 32818 | 2.188E-05 | 3.938E-05 | 600 |
| | 62.0 | 29109 | 1.941E-05 | 3.493E-05 | 600 |
| | 66.0 | 30837 | 2.056E-05 | 3.700E-05 | 600 |
| | 70.0 | 19325 | 1.288E-05 | 2.319E-05 | 600 |
| | 74.0 | 19184 | 1.279E-05 | 2.302E-05 | 600 |
| | 78.0 | 3088 | 2.059E-06 | 3.707E-06 | 600 |
| S | 82.0 | 280 | 1.870E-07 | 3.367E-07 | 600 |
| | 86.0 | 0 | 0. | 0. | 600 |

CROSSWIND INTEGRATED= 9.933E-03 SEC/SQ.M 1.788E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N | 42.0 | 300 | 6.014E-07 | 2.586E-06 | 600 |
| | 46.0 | 592 | 1.185E-06 | 5.096E-06 | 600 |
| | 50.0 | 656 | 1.313E-06 | 5.644E-06 | 600 |
| | 54.0 | 1586 | 3.174E-06 | 1.365E-05 | 600 |
| | 58.0 | 25 | 5.058E-08 | 2.175E-07 | 600 |
| | 62.0 | 2108 | 4.218E-06 | 1.814E-05 | 600 |
| | 66.0 | 1178 | 2.357E-06 | 1.013E-05 | 600 |
| | 70.0 | 797 | 1.596E-06 | 6.862E-06 | 600 |
| | 74.0 | 560 | 1.120E-06 | 4.817E-06 | 600 |
| | 78.0 | 79 | 1.582E-07 | 6.804E-07 | 600 |
| S | 82.0 | 10 | 2.010E-08 | 8.645E-08 | 600 |
| | 86.0 | 0 | 1.081E-09 | 4.648E-09 | 600 |

CROSSWIND INTEGRATED= 6.616E-04 SEC/SQ.M 2.845E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
700M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 12.0 | 0 | 0. | 0. | 700 |
| E | 16.0 | 6 | 4.504E-09 | 8.252E-09 | 700 |
| E | 20.0 | 3573 | 2.382E-06 | 4.288E-06 | 700 |
| E | 24.0 | 13337 | 8.892E-06 | 1.601E-05 | 700 |
| E | 28.0 | 12650 | 8.433E-06 | 1.518E-05 | 700 |
| E | 32.0 | 9211 | 6.141E-06 | 1.105E-05 | 700 |
| E | 36.0 | 7286 | 4.858E-06 | 8.744E-06 | 700 |
| E | 40.0 | 16638 | 1.109E-05 | 1.997E-05 | 700 |
| | 44.0 | 34846 | 2.323E-05 | 4.182E-05 | 700 |
| | 48.0 | 33952 | 2.263E-05 | 4.074E-05 | 700 |
| | 52.0 | 35587 | 2.372E-05 | 4.270E-05 | 700 |
| | 56.0 | 33040 | 2.203E-05 | 3.965E-05 | 700 |
| | 60.0 | 22178 | 1.479E-05 | 2.661E-05 | 700 |
| | 64.0 | 20822 | 1.388E-05 | 2.499E-05 | 700 |
| | 68.0 | 16972 | 1.132E-05 | 2.037E-05 | 700 |
| | 72.0 | 17034 | 1.136E-05 | 2.044E-05 | 700 |
| W | 76.0 | 19230 | 1.282E-05 | 2.308E-05 | 700 |
| W | 80.0 | 2021 | 1.348E-06 | 2.426E-06 | 700 |
| W | 84.0 | 19 | 1.284E-08 | 2.311E-08 | 700 |
| W | 88.0 | 0 | 0. | 0. | 700 |

CROSSWIND INTEGRATED= 9.722E-03 SEC/SQ.M 1.750E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| P | 40.0 | 0 | 0. | 0. | 700 |
| B | 44.0 | 311 | 6.226E-07 | 2.677E-06 | 700 |
| | 48.0 | 743 | 1.487E-06 | 6.395E-06 | 700 |
| | 52.0 | 1064 | 2.129E-06 | 9.156E-06 | 700 |
| | 56.0 | 1768 | 3.537E-06 | 1.521E-05 | 700 |
| | 60.0 | 2517 | 5.035E-06 | 2.165E-05 | 700 |
| | 64.0 | 1836 | 3.673E-06 | 1.579E-05 | 700 |
| | 68.0 | 951 | 1.902E-06 | 8.180E-06 | 700 |
| | 72.0 | 754 | 1.509E-06 | 6.488E-06 | 700 |
| W | 76.0 | 657 | 1.314E-06 | 5.652E-06 | 700 |
| W | 80.0 | 430 | 8.604E-07 | 3.700E-06 | 700 |
| W | 84.0 | 49 | 9.944E-08 | 4.276E-07 | 700 |
| W | 88.0 | 4 | 9.512E-09 | 4.090E-08 | 700 |

CROSSWIND INTEGRATED= 1.084E-03 SEC/SQ.M 4.660E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 16.0 | 0 | 0. | 0. | 800 |
| E | 19.0 | 1097 | 7.317E-07 | 1.317E-06 | 800 |
| E | 22.0 | 5498 | 3.666E-06 | 6.598E-06 | 800 |
| E | 25.0 | 13750 | 9.167E-06 | 1.650E-05 | 800 |
| E | 28.0 | 12375 | 8.250E-06 | 1.485E-05 | 800 |
| E | 31.0 | 8249 | 5.499E-06 | 9.899E-06 | 800 |
| E | 34.0 | 7148 | 4.766E-06 | 8.579E-06 | 800 |
| E | 37.0 | 7148 | 4.766E-06 | 8.579E-06 | 800 |
| B | 40.0 | 9291 | 6.194E-06 | 1.115E-05 | 800 |
| | 43.0 | 17456 | 1.164E-05 | 2.095E-05 | 800 |
| | 46.0 | 37889 | 2.526E-05 | 4.547E-05 | 800 |
| | 49.0 | 39666 | 2.644E-05 | 4.760E-05 | 800 |
| | 52.0 | 31565 | 2.106E-05 | 3.790E-05 | 800 |
| | 55.0 | 27950 | 1.863E-05 | 3.354E-05 | 800 |
| | 58.0 | 18726 | 1.248E-05 | 2.247E-05 | 800 |
| | 61.0 | 16617 | 1.108E-05 | 1.994E-05 | 800 |
| W | 64.0 | 15209 | 1.014E-05 | 1.825E-05 | 800 |
| W | 67.0 | 15162 | 1.011E-05 | 1.820E-05 | 800 |
| W | 70.0 | 16755 | 1.117E-05 | 2.011E-05 | 800 |
| W | 73.0 | 12229 | 8.153E-06 | 1.468E-05 | 800 |
| | 76.0 | 12200 | 8.134E-06 | 1.464E-05 | 800 |
| | 79.0 | 2505 | 1.671E-06 | 3.007E-06 | 800 |
| | 82.0 | 81 | 5.410E-08 | 9.737E-08 | 800 |
| | 85.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 9.176E-03 SEC/SQ.M 1.652E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 224 | 4.494E-07 | 1.933E-06 | 800 |
| | 43.0 | 365 | 7.305E-07 | 3.141E-06 | 800 |
| | 46.0 | 646 | 1.293E-06 | 5.558E-06 | 800 |
| | 49.0 | 927 | 1.855E-06 | 7.975E-06 | 800 |
| | 52.0 | 1132 | 2.265E-06 | 9.741E-06 | 800 |
| | 55.0 | 2108 | 4.217E-06 | 1.813E-05 | 800 |
| | 58.0 | 3061 | 6.124E-06 | 2.633E-05 | 800 |
| | 61.0 | 44 | 8.807E-08 | 3.787E-07 | 800 |
| W | 64.0 | 22 | 4.449E-08 | 1.913E-07 | 800 |
| W | 67.0 | 1155 | 2.311E-06 | 9.936E-06 | 800 |
| W | 70.0 | 882 | 1.766E-06 | 7.593E-06 | 800 |
| W | 73.0 | 701 | 1.403E-06 | 6.032E-06 | 800 |
| | 76.0 | 700 | 1.401E-06 | 6.023E-06 | 800 |
| | 79.0 | 365 | 7.305E-07 | 3.141E-06 | 800 |
| | 82.0 | 153 | 3.068E-07 | 1.319E-06 | 800 |
| | 85.0 | 17 | 3.567E-08 | 1.534E-07 | 800 |

CROSSWIND INTEGRATED= 1.048E-03 SEC/SQ.M 4.506E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 16.0 | 0 | 0. | 0. | 1200 |
| E | 18.0 | 14 | 9.665E-09 | 1.740E-08 | 1200 |
| E | 20.0 | 602 | 4.016E-07 | 7.230E-07 | 1200 |
| E | 22.0 | 1770 | 1.180E-06 | 2.124E-06 | 1200 |
| E | 24.0 | 3622 | 2.415E-06 | 4.347E-06 | 1200 |
| E | 26.0 | 5233 | 3.489E-06 | 6.280E-06 | 1200 |
| E | 28.0 | 4992 | 3.328E-06 | 5.991E-06 | 1200 |
| E | 30.0 | 4025 | 2.684E-06 | 4.831E-06 | 1200 |
| E | 32.0 | 3542 | 2.362E-06 | 4.251E-06 | 1200 |
| E | 34.0 | 3461 | 2.308E-06 | 4.154E-06 | 1200 |
| E | 36.0 | 3461 | 2.308E-06 | 4.154E-06 | 1200 |
| E | 38.0 | 3381 | 2.254E-06 | 4.057E-06 | 1200 |
| B | 40.0 | 3328 | 2.219E-06 | 3.995E-06 | 1200 |
| | 42.0 | 3099 | 2.066E-06 | 3.719E-06 | 1200 |
| | 44.0 | 5476 | 3.651E-06 | 6.571E-06 | 1200 |
| | 46.0 | 11400 | 7.600E-06 | 1.368E-05 | 1200 |
| W | 48.0 | 26135 | 1.742E-05 | 3.136E-05 | 1200 |
| W | 50.0 | 24659 | 1.644E-05 | 2.959E-05 | 1200 |
| | 52.0 | 12282 | 8.189E-06 | 1.474E-05 | 1200 |
| | 54.0 | 7148 | 4.766E-06 | 8.578E-06 | 1200 |
| | 56.0 | 7798 | 5.199E-06 | 9.358E-06 | 1200 |
| | 58.0 | 5475 | 3.650E-06 | 6.570E-06 | 1200 |
| | 60.0 | 4530 | 3.020E-06 | 5.437E-06 | 1200 |
| | 62.0 | 2069 | 1.393E-06 | 2.507E-06 | 1200 |
| | 64.0 | 4753 | 3.169E-06 | 5.704E-06 | 1200 |
| | 66.0 | 3938 | 2.626E-06 | 4.726E-06 | 1200 |
| | 68.0 | 1912 | 1.275E-06 | 2.295E-06 | 1200 |
| | 70.0 | 3498 | 2.333E-06 | 4.199E-06 | 1200 |
| | 72.0 | 8441 | 5.627E-06 | 1.013E-05 | 1200 |
| | 74.0 | 4246 | 2.831E-06 | 5.096E-06 | 1200 |
| | 76.0 | 2026 | 1.351E-06 | 2.432E-06 | 1200 |
| | 78.0 | 923 | 6.159E-07 | 1.109E-06 | 1200 |
| | 80.0 | 339 | 2.261E-07 | 4.069E-07 | 1200 |
| | 82.0 | 16 | 1.128E-08 | 2.030E-08 | 1200 |
| | 84.0 | 16 | 1.128E-08 | 2.030E-08 | 1200 |
| | 86.0 | 12 | 8.054E-09 | 1.450E-08 | 1200 |
| | 88.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 4.461E-03 SEC/SQ.M 8.030E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 165 | 3.312E-07 | 1.424E-06 | 1200 |
| | 42.0 | 165 | 3.312E-07 | 1.424E-06 | 1200 |
| | 44.0 | 302 | 6.047E-07 | 2.600E-06 | 1200 |
| | 46.0 | 466 | 9.334E-07 | 4.015E-06 | 1200 |
| W | 48.0 | 606 | 1.212E-06 | 5.213E-06 | 1200 |
| W | 50.0 | 985 | 1.972E-06 | 8.479E-06 | 1200 |
| | 52.0 | 1517 | 3.035E-06 | 1.305E-05 | 1200 |
| | 54.0 | 2695 | 5.390E-06 | 2.316E-05 | 1200 |
| | 56.0 | 3796 | 7.593E-06 | 3.265E-05 | 1200 |
| | 58.0 | 3956 | 7.913E-06 | 3.402E-05 | 1200 |
| | 60.0 | 3590 | 7.182E-06 | 3.088E-05 | 1200 |
| | 62.0 | 2581 | 5.162E-06 | 2.220E-05 | 1200 |
| | 64.0 | 2277 | 4.555E-06 | 1.958E-05 | 1200 |
| | 66.0 | 1973 | 3.947E-06 | 1.697E-05 | 1200 |
| | 68.0 | 1403 | 2.808E-06 | 1.207E-05 | 1200 |
| | 70.0 | 1251 | 2.504E-06 | 1.077E-05 | 1200 |
| | 72.0 | 1061 | 2.124E-06 | 9.133E-06 | 1200 |
| | 74.0 | 985 | 1.972E-06 | 8.479E-06 | 1200 |
| | 76.0 | 834 | 1.668E-06 | 7.173E-06 | 1200 |
| | 78.0 | 618 | 1.238E-06 | 5.322E-06 | 1200 |
| | 80.0 | 390 | 7.807E-07 | 3.357E-06 | 1200 |
| | 82.0 | 209 | 4.190E-07 | 1.802E-06 | 1200 |
| | 84.0 | 88 | 1.778E-07 | 7.647E-07 | 1200 |
| | 86.0 | 65 | 1.308E-07 | 5.625E-07 | 1200 |
| | 88.0 | 6 | 1.326E-08 | 5.703E-08 | 1200 |

CROSSWIND INTEGRATED= 2.681E-03 SEC/SQ.M 1.153E-02 1/M

1202721



U56

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 18.0 | 0 | 0. | 0. | 1600 |
| E | 20.0 | 119 | 7.947E-08 | 1.430E-07 | 1600 |
| E | 22.0 | 763 | 5.090E-07 | 9.163E-07 | 1600 |
| E | 24.0 | 2173 | 1.449E-06 | 2.608E-06 | 1600 |
| E | 26.0 | 3783 | 2.523E-06 | 4.541E-06 | 1600 |
| E | 28.0 | 3622 | 2.415E-06 | 4.347E-06 | 1600 |
| E | 30.0 | 3220 | 2.147E-06 | 3.864E-06 | 1600 |
| E | 32.0 | 2817 | 1.878E-06 | 3.381E-06 | 1600 |
| E | 34.0 | 2656 | 1.771E-06 | 3.188E-06 | 1600 |
| E | 36.0 | 2817 | 1.878E-06 | 3.381E-06 | 1600 |
| E | 38.0 | 3220 | 2.147E-06 | 3.864E-06 | 1600 |
| B | 40.0 | 3802 | 2.535E-06 | 4.563E-06 | 1600 |
| | 42.0 | 4177 | 2.785E-06 | 5.012E-06 | 1600 |
| | 44.0 | 2763 | 1.842E-06 | 3.316E-06 | 1600 |
| | 46.0 | 7002 | 4.668E-06 | 8.403E-06 | 1600 |
| | 48.0 | 11973 | 7.982E-06 | 1.437E-05 | 1600 |
| | 50.0 | 9604 | 6.403E-06 | 1.153E-05 | 1600 |
| | 52.0 | 6880 | 4.587E-06 | 8.257E-06 | 1600 |
| | 54.0 | 6275 | 4.184E-06 | 7.531E-06 | 1600 |
| | 56.0 | 6026 | 4.018E-06 | 7.232E-06 | 1600 |
| | 58.0 | 6331 | 4.221E-06 | 7.598E-06 | 1600 |
| | 60.0 | 3070 | 2.047E-06 | 3.684E-06 | 1600 |
| | 62.0 | 3570 | 2.380E-06 | 4.285E-06 | 1600 |
| E | 64.0 | 3279 | 2.187E-06 | 3.936E-06 | 1600 |
| E | 66.0 | 2467 | 1.645E-06 | 2.961E-06 | 1600 |
| | 68.0 | 2329 | 1.553E-06 | 2.795E-06 | 1600 |
| | 70.0 | 4287 | 2.858E-06 | 5.145E-06 | 1600 |
| E | 72.0 | 3301 | 2.201E-06 | 3.962E-06 | 1600 |
| E | 74.0 | 1729 | 1.153E-06 | 2.075E-06 | 1600 |
| E | 76.0 | 776 | 5.176E-07 | 9.317E-07 | 1600 |
| E | 78.0 | 428 | 2.857E-07 | 5.142E-07 | 1600 |
| | 80.0 | 80 | 5.370E-08 | 9.665E-08 | 1600 |
| | 82.0 | 16 | 1.074E-08 | 1.933E-08 | 1600 |
| | 84.0 | 0 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 4.296E-03 SEC/SQ.M 7.732E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 76 | 1.525E-07 | 6.559E-07 | 1600 |
| W | 42.0 | 114 | 2.285E-07 | 9.825E-07 | 1600 |
| | 44.0 | 197 | 3.949E-07 | 1.698E-06 | 1600 |
| | 46.0 | 281 | 5.637E-07 | 2.424E-06 | 1600 |
| | 48.0 | 438 | 8.772E-07 | 3.772E-06 | 1600 |
| | 50.0 | 49 | 9.827E-08 | 4.225E-07 | 1600 |
| | 52.0 | 1631 | 3.263E-06 | 1.403E-05 | 1600 |
| | 54.0 | 2277 | 4.555E-06 | 1.958E-05 | 1600 |
| | 56.0 | 3150 | 6.302E-06 | 2.710E-05 | 1600 |
| | 58.0 | 4049 | 8.099E-06 | 3.483E-05 | 1600 |
| | 60.0 | 4429 | 8.859E-06 | 3.809E-05 | 1600 |
| | 62.0 | 4049 | 8.099E-06 | 3.483E-05 | 1600 |
| I | 64.0 | 0 | 1.206E-09 | 5.185E-09 | 1600 |
| I | 66.0 | 4 | 9.284E-09 | 3.992E-08 | 1600 |
| | 68.0 | 87 | 1.742E-07 | 7.492E-07 | 1600 |
| | 70.0 | 78 | 1.561E-07 | 6.714E-07 | 1600 |
| I | 72.0 | 1 | 2.291E-09 | 9.851E-09 | 1600 |
| I | 74.0 | 7 | 1.471E-08 | 6.325E-08 | 1600 |
| P | 76.0 | 3 | 6.752E-09 | 2.903E-08 | 1600 |
| P | 78.0 | 0 | 0. | 0. | 1600 |
| | 80.0 | 311 | 6.240E-07 | 2.683E-06 | 1600 |
| | 82.0 | 128 | 2.574E-07 | 1.107E-06 | 1600 |
| | 84.0 | 37 | 7.536E-08 | 3.240E-07 | 1600 |

CROSSWIND INTEGRATED= 2.391E-03 SEC/SQ.M 1.028E-02 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.8 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 24.0 | 0 | 0. | 0. | 3200 |
| E | 26.0 | 124 | 8.312E-08 | 1.496E-07 | 3200 |
| E | 28.0 | 459 | 3.062E-07 | 5.512E-07 | 3200 |
| E | 30.0 | 668 | 4.457E-07 | 8.023E-07 | 3200 |
| E | 32.0 | 794 | 5.294E-07 | 9.529E-07 | 3200 |
| E | 34.0 | 835 | 5.573E-07 | 1.003E-06 | 3200 |
| E | 36.0 | 877 | 5.852E-07 | 1.053E-06 | 3200 |
| E | 38.0 | 877 | 5.852E-07 | 1.053E-06 | 3200 |
| E | 40.0 | 919 | 6.130E-07 | 1.103E-06 | 3200 |
| E | 42.0 | 1003 | 6.688E-07 | 1.204E-06 | 3200 |
| E | 44.0 | 1170 | 7.804E-07 | 1.405E-06 | 3200 |
| E | 46.0 | 1588 | 1.059E-06 | 1.907E-06 | 3200 |
| E | 48.0 | 2007 | 1.338E-06 | 2.409E-06 | 3200 |
| E | 50.0 | 2174 | 1.450E-06 | 2.610E-06 | 3200 |
| E | 52.0 | 2174 | 1.450E-06 | 2.610E-06 | 3200 |
| E | 54.0 | 1965 | 1.310E-06 | 2.359E-06 | 3200 |
| E | 56.0 | 1756 | 1.171E-06 | 2.108E-06 | 3200 |
| E | 58.0 | 1463 | 9.756E-07 | 1.756E-06 | 3200 |
| B | 60.0 | 1236 | 8.245E-07 | 1.484E-06 | 3200 |
| | 62.0 | 1025 | 6.836E-07 | 1.231E-06 | 3200 |
| | 64.0 | 738 | 4.926E-07 | 8.866E-07 | 3200 |
| | 66.0 | 489 | 3.260E-07 | 5.869E-07 | 3200 |
| | 68.0 | 351 | 2.340E-07 | 4.212E-07 | 3200 |
| | 70.0 | 221 | 1.475E-07 | 2.656E-07 | 3200 |
| | 72.0 | 106 | 7.112E-08 | 1.280E-07 | 3200 |
| | 74.0 | 34 | 2.315E-08 | 4.167E-08 | 3200 |
| H | 76.0 | 35 | 2.399E-08 | 4.318E-08 | 3200 |
| | 78.0 | 0 | 5.578E-10 | 1.004E-09 | 3200 |
| H | 80.0 | 7 | 5.299E-09 | 9.534E-09 | 3200 |
| | 82.0 | 0 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 1.870E-03 SEC/SQ.M 3.366E-03 1/M

TEST U56 JULY 18, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 60.0 | 1103 | 2.208E-06 | 9.494E-06 | 3200 |
| | 62.0 | 985 | 1.971E-06 | 8.476E-06 | 3200 |
| | 64.0 | 985 | 1.971E-06 | 8.476E-06 | 3200 |
| | 66.0 | 768 | 1.537E-06 | 6.610E-06 | 3200 |
| | 68.0 | 610 | 1.222E-06 | 5.253E-06 | 3200 |
| | 70.0 | 452 | 9.059E-07 | 3.895E-06 | 3200 |
| | 72.0 | 308 | 6.166E-07 | 2.651E-06 | 3200 |
| | 74.0 | 218 | 4.368E-07 | 1.878E-06 | 3200 |
| H | 76.0 | 115 | 2.302E-07 | 9.897E-07 | 3200 |
| | 78.0 | 51 | 1.037E-07 | 4.457E-07 | 3200 |
| H | 80.0 | 16 | 3.351E-08 | 1.441E-07 | 3200 |
| | 82.0 | 3 | 6.325E-09 | 2.720E-08 | 3200 |

CROSSWIND INTEGRATED= 1.256E-03 SEC/SQ.M 5.400E-03 1/M

SAMPLING 400M TO 3200M: NO TOWER SAMPLING.
TRACER DISTRIBUTION EXTENDS BEYOND SAMPLERS AT 3200M. AND TO LESSER EXTENT AT 1600M. ZNS EXTRAPOLATED AT 3200M. STRONG LOW-LEVEL TEMPERATURE INVERSION.

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 0 | 0. | 0. | 400 |
| 5 66.0 | 363 | 2.895E-07 | 4.343E-07 | 400 |
| 70.0 | 255 | 2.033E-07 | 3.050E-07 | 400 |
| 74.0 | 30 | 2.413E-08 | 3.619E-08 | 400 |
| 78.0 | 11 | 9.191E-09 | 1.379E-08 | 400 |
| 4 82.0 | 12 | 1.034E-08 | 1.551E-08 | 400 |
| 3 86.0 | 10993 | 8.746E-06 | 1.312E-05 | 400 |
| 3 90.0 | 53146 | 4.228E-05 | 6.342E-05 | 400 |
| 3 94.0 | 168194 | 1.338E-04 | 2.007E-04 | 400 |
| 3 98.0 | 86658 | 6.894E-05 | 1.034E-04 | 400 |
| 102.0 | 264424 | 2.104E-04 | 3.155E-04 | 400 |
| 106.0 | 393254 | 3.129E-04 | 4.693E-04 | 400 |
| 4 110.0 | 160537 | 1.277E-04 | 1.916E-04 | 400 |
| 6 114.0 | 11864 | 9.439E-06 | 1.416E-05 | 400 |
| 118.0 | 36 | 2.872E-08 | 4.306E-08 | 400 |
| 122.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 2.554E-02 SEC/SQ.M 3.832E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 70.0 | 0 | 0. | 0. | 400 |
| 74.0 | 1 | 2.632E-09 | 8.950E-09 | 400 |
| 78.0 | 5 | 8.390E-09 | 2.853E-08 | 400 |
| 4 82.0 | 12 | 1.925E-08 | 6.544E-08 | 400 |
| 86.0 | 11 | 1.826E-08 | 6.209E-08 | 400 |
| 90.0 | 15 | 2.418E-08 | 8.222E-08 | 400 |
| 94.0 | 24 | 3.702E-08 | 1.259E-07 | 400 |
| 98.0 | 26 | 4.031E-08 | 1.370E-07 | 400 |
| 102.0 | 20 | 3.060E-08 | 1.040E-07 | 400 |
| 106.0 | 89 | 1.357E-07 | 4.615E-07 | 400 |
| 110.0 | 38 | 5.840E-08 | 1.986E-07 | 400 |
| 4 114.0 | 40 | 6.169E-08 | 2.098E-07 | 400 |
| 6 118.0 | 102 | 1.555E-07 | 5.286E-07 | 400 |
| 8 122.0 | 27 | 4.195E-08 | 1.426E-07 | 400 |

CROSSWIND INTEGRATED= 1.770E-05 SEC/SQ.M 6.018E-05 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 58.0 | 0 | 0. | 0. | 600 |
| 62.0 | 5 | 4.595E-09 | 6.893E-09 | 600 |
| 66.0 | 5 | 4.595E-09 | 6.893E-09 | 600 |
| 70.0 | 358 | 2.849E-07 | 4.274E-07 | 600 |
| 74.0 | 553 | 4.400E-07 | 6.600E-07 | 600 |
| E 78.0 | 979 | 7.789E-07 | 1.168E-06 | 600 |
| E 82.0 | 1831 | 1.457E-06 | 2.185E-06 | 600 |
| E 86.0 | 1946 | 1.549E-06 | 2.323E-06 | 600 |
| E 90.0 | 16631 | 1.323E-05 | 1.985E-05 | 600 |
| 94.0 | 76288 | 6.069E-05 | 9.104E-05 | 600 |
| 98.0 | 200679 | 1.596E-04 | 2.395E-04 | 600 |
| 102.0 | 246046 | 1.957E-04 | 2.936E-04 | 600 |
| 106.0 | 394767 | 3.141E-04 | 4.711E-04 | 600 |
| 110.0 | 153675 | 1.223E-04 | 1.834E-04 | 600 |
| 114.0 | 6078 | 4.835E-06 | 7.253E-06 | 600 |
| 118.0 | 2 | 2.298E-09 | 3.446E-09 | 600 |
| 122.0 | 0 | 0. | 0. | 600 |

CROSSWIND INTEGRATED= 3.665E-02 SEC/SQ.M 5.498E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 66.0 | 0 | 0. | 0. | 600 |
| 70.0 | 0 | 0. | 0. | 600 |
| 74.0 | 0 | 0. | 0. | 600 |
| I 78.0 | 0 | 0. | 0. | 600 |
| I 82.0 | 0 | 0. | 0. | 600 |
| I 86.0 | 0 | 0. | 0. | 600 |
| I 90.0 | 0 | 0. | 0. | 600 |
| 94.0 | 14 | 2.172E-08 | 7.383E-08 | 600 |
| 98.0 | 17 | 2.616E-08 | 8.894E-08 | 600 |
| 102.0 | 30 | 4.656E-08 | 1.583E-07 | 600 |
| 106.0 | 44 | 6.794E-08 | 2.310E-07 | 600 |
| 110.0 | 17 | 2.616E-08 | 8.894E-08 | 600 |
| 114.0 | 0 | 6.581E-10 | 2.237E-09 | 600 |
| 118.0 | 0 | 0. | 0. | 600 |
| 122.0 | 2 | 3.948E-09 | 1.342E-08 | 600 |

CROSSWIND INTEGRATED= 8.090E-06 SEC/SQ.M 2.751E-05 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
700M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 56.0 | 0 | 0. | 0. | 700 |
| 60.0 | 21 | 1.723E-08 | 2.585E-08 | 700 |
| 64.0 | 0 | 0. | 0. | 700 |
| 68.0 | 12 | 1.034E-08 | 1.551E-08 | 700 |
| 72.0 | 108 | 8.616E-08 | 1.292E-07 | 700 |
| 76.0 | 135 | 1.080E-07 | 1.620E-07 | 700 |
| S 80.0 | 10 | 8.042E-09 | 1.206E-08 | 700 |
| 84.0 | 103 | 8.272E-08 | 1.241E-07 | 700 |
| 88.0 | 235 | 1.873E-07 | 2.809E-07 | 700 |
| 92.0 | 11900 | 9.467E-06 | 1.420E-05 | 700 |
| E 96.0 | 14883 | 1.582E-05 | 2.373E-05 | 700 |
| 100.0 | 182607 | 1.453E-04 | 2.179E-04 | 700 |
| 104.0 | 357837 | 2.807E-04 | 4.210E-04 | 700 |
| 108.0 | 498660 | 3.967E-04 | 5.951E-04 | 700 |
| N 112.0 | 21526 | 1.713E-05 | 2.569E-05 | 700 |
| 116.0 | 96 | 7.697E-08 | 1.155E-07 | 700 |
| 120.0 | 0 | 0. | 0. | 700 |

CROSSWIND INTEGRATED= 4.230E-02 SEC/SQ.M 6.346E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 56.0 | 7 | 1.185E-08 | 4.027E-08 | 700 |
| 60.0 | 5 | 7.897E-09 | 2.685E-08 | 700 |
| 64.0 | 6 | 9.871E-09 | 3.356E-08 | 700 |
| 68.0 | 6 | 9.377E-09 | 3.188E-08 | 700 |
| 72.0 | 0 | 0. | 0. | 700 |
| 76.0 | 57 | 8.802E-08 | 2.993E-07 | 700 |
| S 80.0 | 6 | 9.871E-09 | 3.356E-08 | 700 |
| 84.0 | 6 | 9.871E-09 | 3.356E-08 | 700 |
| 88.0 | 3 | 4.935E-09 | 1.678E-08 | 700 |
| 92.0 | 7 | 1.086E-08 | 3.692E-08 | 700 |
| E 96.0 | 16 | 2.566E-08 | 8.726E-08 | 700 |
| 100.0 | 27 | 4.195E-08 | 1.426E-07 | 700 |
| 104.0 | 41 | 6.334E-08 | 2.154E-07 | 700 |
| 108.0 | 89 | 1.357E-07 | 4.615E-07 | 700 |
| N 112.0 | 25 | 3.866E-08 | 1.314E-07 | 700 |
| 116.0 | 0 | 0. | 0. | 700 |
| 120.0 | 2 | 3.290E-09 | 1.119E-08 | 700 |

CROSSWIND INTEGRATED= 2.303E-05 SEC/SQ.M 7.829E-05 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 58.0 | 0 | 0. | 0. | 800 |
| 61.0 | 0 | 0. | 0. | 800 |
| 64.0 | 0 | 0. | 0. | 800 |
| 67.0 | 17 | 1.379E-08 | 2.068E-08 | 800 |
| 70.0 | 122 | 9.765E-08 | 1.465E-07 | 800 |
| 73.0 | 436 | 3.469E-07 | 5.204E-07 | 800 |
| 76.0 | 441 | 3.515E-07 | 5.273E-07 | 800 |
| 79.0 | 46 | 3.676E-08 | 5.514E-08 | 800 |
| 82.0 | 36 | 2.872E-08 | 4.308E-08 | 800 |
| 85.0 | 63 | 5.055E-08 | 7.582E-08 | 800 |
| 88.0 | 73 | 5.859E-08 | 8.789E-08 | 800 |
| S 91.0 | 1260 | 1.003E-06 | 1.504E-06 | 800 |
| 94.0 | 13941 | 1.109E-05 | 1.664E-05 | 800 |
| 97.0 | 93531 | 7.441E-05 | 1.116E-04 | 800 |
| W 100.0 | 104353 | 8.302E-05 | 1.245E-04 | 800 |
| W 103.0 | 30439 | 2.422E-05 | 3.632E-05 | 800 |
| W 106.0 | 191731 | 1.525E-04 | 2.288E-04 | 800 |
| W 109.0 | 95232 | 7.576E-05 | 1.136E-04 | 800 |
| 112.0 | 61768 | 4.914E-05 | 7.371E-05 | 800 |
| 115.0 | 4057 | 3.228E-06 | 4.842E-06 | 800 |
| 118.0 | 2 | 2.298E-09 | 3.446E-09 | 800 |
| 121.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 1.991E-02 SEC/SQ.M 2.987E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 64.0 | 1 | 1.645E-09 | 5.594E-09 | 800 |
| 67.0 | 0 | 0. | 0. | 800 |
| 70.0 | 5 | 8.390E-09 | 2.853E-08 | 800 |
| 73.0 | 0 | 0. | 0. | 800 |
| 76.0 | 0 | 0. | 0. | 800 |
| 79.0 | 0 | 1.316E-09 | 4.475E-09 | 800 |
| 82.0 | 0 | 0. | 0. | 800 |
| 85.0 | 0 | 0. | 0. | 800 |
| 88.0 | 0 | 4.935E-10 | 1.678E-09 | 800 |
| S 91.0 | 0 | 0. | 0. | 800 |
| 94.0 | 0 | 0. | 0. | 800 |
| 97.0 | 14 | 2.270E-08 | 7.719E-08 | 800 |
| W 100.0 | 34 | 5.162E-08 | 1.762E-07 | 800 |
| W 103.0 | 11 | 1.826E-08 | 6.209E-08 | 800 |
| W 106.0 | 39 | 6.005E-08 | 2.042E-07 | 800 |
| W 109.0 | 23 | 3.537E-08 | 1.203E-07 | 800 |
| 112.0 | 18 | 2.764E-08 | 9.397E-08 | 800 |
| 115.0 | 2 | 3.290E-09 | 1.119E-08 | 800 |
| 118.0 | 8 | 1.234E-08 | 4.195E-08 | 800 |
| 121.0 | 10 | 1.629E-08 | 5.538E-08 | 800 |

CROSSWIND INTEGRATED= 1.087E-05 SEC/SQ.M 3.697E-05 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 48.0 | 0 | 0. | 0. | 1200 |
| | 50.0 | 0 | 0. | 0. | 1200 |
| | 52.0 | 0 | 0. | 0. | 1200 |
| | 54.0 | 4 | 3.845E-09 | 5.767E-09 | 1200 |
| | 56.0 | 12 | 1.025E-08 | 1.538E-08 | 1200 |
| | 58.0 | 6 | 5.126E-09 | 7.689E-09 | 1200 |
| | 60.0 | 24 | 1.922E-08 | 2.883E-08 | 1200 |
| | 62.0 | 27 | 2.179E-08 | 3.268E-08 | 1200 |
| E | 64.0 | 30 | 2.435E-08 | 3.652E-08 | 1200 |
| E | 66.0 | 30 | 2.435E-08 | 3.652E-08 | 1200 |
| | 68.0 | 33 | 2.627E-08 | 3.941E-08 | 1200 |
| | 70.0 | 81 | 6.472E-08 | 9.708E-08 | 1200 |
| | 72.0 | 25 | 2.050E-08 | 3.076E-08 | 1200 |
| | 74.0 | 147 | 1.173E-07 | 1.759E-07 | 1200 |
| | 76.0 | 148 | 1.179E-07 | 1.769E-07 | 1200 |
| | 78.0 | 298 | 2.371E-07 | 3.556E-07 | 1200 |
| 4 | 80.0 | 263 | 2.095E-07 | 3.143E-07 | 1200 |
| 3 | 82.0 | 242 | 1.929E-07 | 2.893E-07 | 1200 |
| 4 | 84.0 | 147 | 1.173E-07 | 1.759E-07 | 1200 |
| 4 | 86.0 | 70 | 5.639E-08 | 8.458E-08 | 1200 |
| | 88.0 | 193 | 1.538E-07 | 2.307E-07 | 1200 |
| | 90.0 | 239 | 1.903E-07 | 2.855E-07 | 1200 |
| 3 | 92.0 | 229 | 1.826E-07 | 2.739E-07 | 1200 |
| 4 | 94.0 | 344 | 2.742E-07 | 4.114E-07 | 1200 |
| 3 | 96.0 | 932 | 7.426E-07 | 1.113E-06 | 1200 |
| 3 | 98.0 | 9168 | 7.294E-06 | 1.094E-05 | 1200 |
| 4 | 100.0 | 38835 | 3.090E-05 | 4.634E-05 | 1200 |
| 4 | 102.0 | 61249 | 4.873E-05 | 7.309E-05 | 1200 |
| W | 104.0 | 59185 | 4.708E-05 | 7.063E-05 | 1200 |
| W | 106.0 | 72305 | 5.752E-05 | 8.628E-05 | 1200 |
| 4 | 108.0 | 122622 | 9.755E-05 | 1.463E-04 | 1200 |
| 4 | 110.0 | 89299 | 7.104E-05 | 1.066E-04 | 1200 |
| 4 | 112.0 | 30277 | 2.409E-05 | 3.613E-05 | 1200 |
| 4 | 114.0 | 9573 | 7.614E-06 | 1.142E-05 | 1200 |
| 6 | 116.0 | 343 | 2.730E-07 | 4.094E-07 | 1200 |
| | 118.0 | 133 | 1.064E-07 | 1.596E-07 | 1200 |
| | 120.0 | 20 | 1.602E-08 | 2.403E-08 | 1200 |
| 4 | 122.0 | 12 | 9.611E-09 | 1.442E-08 | 1200 |

CROSSWIND INTEGRATED= 1.655E-02 SEC/SQ.M 2.482E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 52.0 | 0 | 9.176E-10 | 3.120E-09 | 1200 |
| | 54.0 | 0 | 0. | 0. | 1200 |
| | 56.0 | 0 | 0. | 0. | 1200 |
| | 58.0 | 0 | 0. | 0. | 1200 |
| | 60.0 | 0 | 0. | 0. | 1200 |
| | 62.0 | 0 | 0. | 0. | 1200 |
| P | 64.0 | 0 | 0. | 0. | 1200 |
| P | 66.0 | 0 | 0. | 0. | 1200 |
| | 68.0 | 0 | 0. | 0. | 1200 |
| | 72.0 | 0 | 0. | 0. | 1200 |
| | 74.0 | 0 | 0. | 0. | 1200 |
| | 76.0 | 8 | 1.349E-08 | 4.586E-08 | 1200 |
| | 78.0 | 16 | 2.523E-08 | 8.580E-08 | 1200 |
| 4 | 80.0 | 3 | 4.955E-09 | 1.685E-08 | 1200 |
| | 82.0 | 4 | 7.433E-09 | 2.527E-08 | 1200 |
| 4 | 84.0 | 3 | 5.506E-09 | 1.872E-08 | 1200 |
| 4 | 86.0 | 4 | 7.433E-09 | 2.527E-08 | 1200 |
| | 88.0 | 1 | 2.478E-09 | 8.424E-09 | 1200 |
| | 90.0 | 0 | 0. | 0. | 1200 |
| | 92.0 | 7 | 1.074E-08 | 3.650E-08 | 1200 |
| 4 | 94.0 | 34 | 5.184E-08 | 1.763E-07 | 1200 |
| | 96.0 | 16 | 2.523E-08 | 8.580E-08 | 1200 |
| | 98.0 | 24 | 3.716E-08 | 1.264E-07 | 1200 |
| 4 | 100.0 | 38 | 5.827E-08 | 1.981E-07 | 1200 |
| 4 | 102.0 | 78 | 1.197E-07 | 4.071E-07 | 1200 |
| W | 104.0 | 76 | 1.170E-07 | 3.978E-07 | 1200 |
| W | 106.0 | 172 | 2.620E-07 | 8.907E-07 | 1200 |
| 4 | 108.0 | 190 | 2.895E-07 | 9.843E-07 | 1200 |
| 4 | 110.0 | 328 | 5.005E-07 | 1.702E-06 | 1200 |
| 4 | 112.0 | 232 | 3.537E-07 | 1.203E-06 | 1200 |
| 4 | 114.0 | 80 | 1.225E-07 | 4.165E-07 | 1200 |
| 6 | 116.0 | 141 | 2.161E-07 | 7.347E-07 | 1200 |
| | 118.0 | 85 | 1.308E-07 | 4.446E-07 | 1200 |
| | 120.0 | 23 | 3.533E-08 | 1.201E-07 | 1200 |
| 4 | 122.0 | 18 | 2.890E-08 | 9.827E-08 | 1200 |

CROSSWIND INTEGRATED= 1.017E-04 SEC/SQ.M 3.456E-04 1/M



U57 1202725

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 0 | 0. | 0. | 1600 |
| 64.0 | 10 | 8.330E-09 | 1.249E-08 | 1600 |
| 66.0 | 35 | 2.819E-08 | 4.229E-08 | 1600 |
| 68.0 | 28 | 2.243E-08 | 3.364E-08 | 1600 |
| 70.0 | 120 | 9.547E-08 | 1.432E-07 | 1600 |
| 72.0 | 82 | 6.536E-08 | 9.804E-08 | 1600 |
| 74.0 | 169 | 1.346E-07 | 2.018E-07 | 1600 |
| 76.0 | 189 | 1.506E-07 | 2.259E-07 | 1600 |
| 78.0 | 178 | 1.416E-07 | 2.124E-07 | 1600 |
| 80.0 | 219 | 1.743E-07 | 2.614E-07 | 1600 |
| 82.0 | 398 | 3.172E-07 | 4.758E-07 | 1600 |
| 84.0 | 378 | 3.012E-07 | 4.517E-07 | 1600 |
| 86.0 | 495 | 3.941E-07 | 5.911E-07 | 1600 |
| 88.0 | 760 | 6.049E-07 | 9.073E-07 | 1600 |
| 90.0 | 881 | 7.010E-07 | 1.051E-06 | 1600 |
| 92.0 | 1013 | 8.061E-07 | 1.209E-06 | 1600 |
| 94.0 | 1516 | 1.207E-06 | 1.810E-06 | 1600 |
| 4 96.0 | 1034 | 8.227E-07 | 1.234E-06 | 1600 |
| 98.0 | 1293 | 1.029E-06 | 1.544E-06 | 1600 |
| 100.0 | 3948 | 3.141E-06 | 4.712E-06 | 1600 |
| 102.0 | 14411 | 1.147E-05 | 1.720E-05 | 1600 |
| 104.0 | 43554 | 3.465E-05 | 5.197E-05 | 1600 |
| 5 106.0 | 32368 | 2.575E-05 | 3.863E-05 | 1600 |
| 5 108.0 | 37282 | 2.966E-05 | 4.449E-05 | 1600 |
| 3 110.0 | 43352 | 3.449E-05 | 5.173E-05 | 1600 |
| 5 112.0 | 9078 | 7.223E-06 | 1.083E-05 | 1600 |
| 4 114.0 | 3467 | 2.758E-06 | 4.138E-06 | 1600 |
| 5 116.0 | 415 | 3.306E-07 | 4.960E-07 | 1600 |
| 4 118.0 | 124 | 9.868E-08 | 1.480E-07 | 1600 |
| 5 120.0 | 9 | 7.689E-09 | 1.153E-08 | 1600 |
| 122.0 | 10 | 8.330E-09 | 1.249E-08 | 1600 |

CROSSWIND INTEGRATED= 8.745E-03 SEC/SQ.M 1.312E-02 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 2 | 3.854E-09 | 1.310E-08 | 1600 |
| 64.0 | 2 | 3.395E-09 | 1.154E-08 | 1600 |
| 66.0 | 0 | 4.588E-10 | 1.560E-09 | 1600 |
| 68.0 | 0 | 0. | 0. | 1600 |
| 72.0 | 3 | 4.955E-09 | 1.685E-08 | 1600 |
| 74.0 | 0 | 1.285E-09 | 4.368E-09 | 1600 |
| 76.0 | 15 | 2.340E-08 | 7.956E-08 | 1600 |
| 78.0 | 5 | 7.708E-09 | 2.621E-08 | 1600 |
| 80.0 | 5 | 7.708E-09 | 2.621E-08 | 1600 |
| 82.0 | 1 | 2.386E-09 | 8.112E-09 | 1600 |
| 84.0 | 1 | 1.743E-09 | 5.928E-09 | 1600 |
| 86.0 | 1 | 1.835E-09 | 6.240E-09 | 1600 |
| 88.0 | 5 | 8.258E-09 | 2.808E-08 | 1600 |
| 90.0 | 3 | 4.680E-09 | 1.591E-08 | 1600 |
| 92.0 | 3 | 4.955E-09 | 1.685E-08 | 1600 |
| 94.0 | 11 | 1.679E-08 | 5.709E-08 | 1600 |
| 4 96.0 | 20 | 3.166E-08 | 1.076E-07 | 1600 |
| 98.0 | 31 | 4.817E-08 | 1.638E-07 | 1600 |
| 100.0 | 12 | 1.973E-08 | 6.708E-08 | 1600 |
| 102.0 | 28 | 4.267E-08 | 1.451E-07 | 1600 |
| 104.0 | 87 | 1.335E-07 | 4.539E-07 | 1600 |
| 5 106.0 | 250 | 3.813E-07 | 1.296E-06 | 1600 |
| 5 108.0 | 244 | 3.721E-07 | 1.265E-06 | 1600 |
| 110.0 | 896 | 1.364E-06 | 4.638E-06 | 1600 |
| 5 112.0 | 832 | 1.268E-06 | 4.310E-06 | 1600 |
| 4 114.0 | 455 | 6.932E-07 | 2.357E-06 | 1600 |
| 5 116.0 | 352 | 5.373E-07 | 1.827E-06 | 1600 |
| 4 118.0 | 292 | 4.455E-07 | 1.515E-06 | 1600 |
| 5 120.0 | 62 | 9.497E-08 | 3.229E-07 | 1600 |
| 8 122.0 | 29 | 4.450E-08 | 1.513E-07 | 1600 |

CROSSWIND INTEGRATED= 3.112E-04 SEC/SQ.M 1.058E-03 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.5 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 0 80.0 | 0 | 0. | 0. | 3200 |
| 5 82.0 | 10 | 8.654E-09 | 1.296E-08 | 3200 |
| W 84.0 | 196 | 1.564E-07 | 2.346E-07 | 3200 |
| E 86.0 | 274 | 2.187E-07 | 3.280E-07 | 3200 |
| 88.0 | 428 | 3.412E-07 | 5.117E-07 | 3200 |
| 90.0 | 2285 | 1.819E-06 | 2.728E-06 | 3200 |
| 92.0 | 1665 | 1.325E-06 | 1.988E-06 | 3200 |
| 94.0 | 1204 | 9.579E-07 | 1.437E-06 | 3200 |
| E 96.0 | 1291 | 1.028E-06 | 1.542E-06 | 3200 |
| 98.0 | 1791 | 1.425E-06 | 2.137E-06 | 3200 |
| E 100.0 | 1088 | 8.657E-07 | 1.299E-06 | 3200 |
| 102.0 | 617 | 4.909E-07 | 7.364E-07 | 3200 |
| 104.0 | 1579 | 1.256E-06 | 1.885E-06 | 3200 |
| 106.0 | 839 | 6.680E-07 | 1.002E-06 | 3200 |
| 5 108.0 | 305 | 2.433E-07 | 3.649E-07 | 3200 |
| 110.0 | 2123 | 1.689E-06 | 2.534E-06 | 3200 |
| 5 112.0 | 717 | 5.711E-07 | 8.567E-07 | 3200 |
| 8 114.0 | 3090 | 2.458E-06 | 3.687E-06 | 3200 |
| E 116.0 | 2509 | 1.996E-06 | 2.994E-06 | 3200 |
| E 118.0 | 1212 | 9.645E-07 | 1.447E-06 | 3200 |
| E 120.0 | 417 | 3.322E-07 | 4.982E-07 | 3200 |
| E 122.0 | 70 | 5.592E-08 | 8.387E-08 | 3200 |
| E 124.0 | 0 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 2.108E-03 SEC/SQ.M 3.162E-03 1/M

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 0 80.0 | 0 | 0. | 0. | 3200 |
| 5 82.0 | 6 | 9.294E-09 | 3.160E-08 | 3200 |
| W 84.0 | 40 | 6.220E-08 | 2.115E-07 | 3200 |
| U 86.0 | 252 | 3.839E-07 | 1.305E-06 | 3200 |
| 88.0 | 86 | 1.313E-07 | 4.465E-07 | 3200 |
| 90.0 | 230 | 3.506E-07 | 1.192E-06 | 3200 |
| 92.0 | 105 | 1.599E-07 | 5.437E-07 | 3200 |
| 94.0 | 108 | 1.647E-07 | 5.599E-07 | 3200 |
| 0 96.0 | 117 | 1.790E-07 | 6.085E-07 | 3200 |
| 98.0 | 214 | 3.267E-07 | 1.111E-06 | 3200 |
| U 100.0 | 264 | 4.030E-07 | 1.370E-06 | 3200 |
| 102.0 | 177 | 2.695E-07 | 9.164E-07 | 3200 |
| 104.0 | 302 | 4.602E-07 | 1.565E-06 | 3200 |
| 106.0 | 199 | 3.029E-07 | 1.030E-06 | 3200 |
| 5 108.0 | 211 | 3.220E-07 | 1.095E-06 | 3200 |
| 110.0 | 419 | 6.384E-07 | 2.171E-06 | 3200 |
| 5 112.0 | 866 | 1.319E-06 | 4.485E-06 | 3200 |
| B 114.0 | 4272 | 6.504E-06 | 2.211E-05 | 3200 |

CROSSWIND INTEGRATED= 1.339E-03 SEC/SQ.M 4.552E-03 1/M

SAMPLING 400M TO 3200M: NO TOWER SAMPLING.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS.
UNUSUAL APPEARANCE OF ZNS REMAINING IN DISPERSAL APPARATUS FOLLOWING TRACER RELEASE LEAVES SOME DOUBT ON "Q".

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 74.0 | 0 | 0. | 0. | 400 |
| 78.0 | 818 | 1.843E-06 | 5.898E-06 | 400 |
| 82.0 | 1837 | 4.138E-06 | 1.324E-05 | 400 |
| 86.0 | 3771 | 8.493E-06 | 2.718E-05 | 400 |
| 90.0 | 9262 | 2.086E-05 | 6.676E-05 | 400 |
| 94.0 | 8969 | 2.020E-05 | 6.465E-05 | 400 |
| 98.0 | 7290 | 1.642E-05 | 5.254E-05 | 400 |
| 102.0 | 3142 | 7.078E-06 | 2.265E-05 | 400 |
| 106.0 | 152 | 3.438E-07 | 1.100E-06 | 400 |
| 110.0 | 6 | 1.549E-08 | 4.956E-08 | 400 |
| 6 114.0 | 8 | 1.859E-08 | 5.947E-08 | 400 |
| 118.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 2.218E-03 SEC/SQ.M 7.097E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 74.0 | 0 | 0. | 0. | 400 |
| 78.0 | 13 | 3.493E-08 | 1.956E-07 | 400 |
| 82.0 | 539 | 1.386E-06 | 7.761E-06 | 400 |
| 86.0 | 852 | 2.192E-06 | 1.227E-05 | 400 |
| 90.0 | 2994 | 7.699E-06 | 4.311E-05 | 400 |
| 94.0 | 3131 | 8.049E-06 | 4.507E-05 | 400 |
| 98.0 | 2313 | 5.948E-06 | 3.331E-05 | 400 |
| 102.0 | 2041 | 5.248E-06 | 2.939E-05 | 400 |
| 106.0 | 284 | 7.318E-07 | 4.098E-06 | 400 |
| 110.0 | 50 | 1.300E-07 | 7.277E-07 | 400 |
| 6 114.0 | 2 | 6.863E-09 | 3.843E-08 | 400 |
| 118.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 8.776E-04 SEC/SQ.M 4.914E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 66.0 | 0 | 0. | 0. | 600 |
| 70.0 | 9 | 2.168E-08 | 6.933E-08 | 600 |
| 74.0 | 9 | 2.168E-08 | 6.938E-08 | 600 |
| 78.0 | 0 | 0. | 0. | 600 |
| 82.0 | 15 | 3.407E-08 | 1.090E-07 | 600 |
| 86.0 | 244 | 5.514E-07 | 1.764E-06 | 600 |
| 90.0 | 308 | 6.938E-07 | 2.220E-06 | 600 |
| 94.0 | 5637 | 1.270E-05 | 4.063E-05 | 600 |
| 98.0 | 1796 | 4.045E-06 | 1.295E-05 | 600 |
| 102.0 | 1468 | 3.352E-06 | 1.072E-05 | 600 |
| 106.0 | 27 | 6.195E-08 | 1.982E-07 | 600 |
| 110.0 | 0 | 0. | 0. | 600 |

CROSSWIND INTEGRATED= 8.997E-04 SEC/SQ.M 2.879E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
600M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 70.0 | 0 | 0. | 0. | 600 |
| 74.0 | 0 | 1.084E-09 | 6.068E-09 | 600 |
| 78.0 | 0 | 8.336E-11 | 4.668E-10 | 600 |
| 82.0 | 3 | 9.419E-09 | 5.275E-08 | 600 |
| E 86.0 | 516 | 1.327E-06 | 7.431E-06 | 600 |
| E 90.0 | 2994 | 7.699E-06 | 4.311E-05 | 600 |
| 94.0 | 6288 | 1.102E-05 | 6.174E-05 | 600 |
| 98.0 | 2245 | 5.773E-06 | 3.233E-05 | 600 |
| 102.0 | 2313 | 5.948E-06 | 3.331E-05 | 600 |
| 106.0 | 121 | 3.133E-07 | 1.755E-06 | 600 |
| 110.0 | 10 | 2.659E-08 | 1.489E-07 | 600 |

CROSSWIND INTEGRATED= 1.346E-03 SEC/SQ.M 7.535E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
700M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 0 | 0. | 0. | 700 |
| 80.0 | 590 | 1.329E-06 | 4.252E-06 | 700 |
| 84.0 | 1661 | 3.742E-06 | 1.197E-05 | 700 |
| 88.0 | 1675 | 3.773E-06 | 1.207E-05 | 700 |
| 92.0 | 3175 | 7.152E-06 | 2.289E-05 | 700 |
| E 96.0 | 3251 | 7.323E-06 | 2.343E-05 | 700 |
| 100.0 | 1986 | 4.474E-06 | 1.433E-05 | 700 |
| 104.0 | 371 | 8.363E-07 | 2.676E-06 | 700 |
| 108.0 | 67 | 1.518E-07 | 4.857E-07 | 700 |
| 5 112.0 | 11 | 2.478E-08 | 7.930E-08 | 700 |
| 116.0 | 0 | 0. | 0. | 700 |

CROSSWIND INTEGRATED= 1.408E-03 SEC/SQ.M 4.505E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
700M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 2 | 6.030E-09 | 3.377E-08 | 700 |
| E 80.0 | 18 | 4.743E-08 | 2.656E-07 | 700 |
| E 84.0 | 225 | 5.801E-07 | 3.248E-06 | 700 |
| 88.0 | 1973 | 5.073E-06 | 2.841E-05 | 700 |
| 92.0 | 4901 | 1.260E-05 | 7.056E-05 | 700 |
| C 96.0 | 3980 | 9.974E-06 | 5.586E-05 | 700 |
| 100.0 | 2586 | 6.649E-06 | 3.723E-05 | 700 |
| 104.0 | 1133 | 2.914E-06 | 1.632E-05 | 700 |
| 108.0 | 47 | 1.216E-07 | 6.811E-07 | 700 |
| 5 112.0 | 1 | 2.667E-09 | 1.494E-08 | 700 |
| 116.0 | 0 | 2.084E-09 | 1.167E-08 | 700 |

CROSSWIND INTEGRATED= 1.856E-03 SEC/SQ.M 1.039E-02 1/M



U58 1202727

TEST U54 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 67.0 | 0 | 0. | 0. | 800 |
| 70.0 | 0 | 0. | 0. | 800 |
| 73.0 | 0 | 0. | 0. | 800 |
| 76.0 | 24 | 5.576E-08 | 1.764E-07 | 800 |
| 79.0 | 224 | 5.049E-07 | 1.616E-06 | 800 |
| 82.0 | 730 | 1.645E-06 | 5.263E-06 | 800 |
| 85.0 | 1303 | 2.936E-06 | 9.397E-06 | 800 |
| 88.0 | 2364 | 5.325E-06 | 1.704E-05 | 800 |
| 91.0 | 3560 | 8.020E-06 | 2.566E-05 | 800 |
| 94.0 | 3237 | 7.292E-06 | 2.333E-05 | 800 |
| 97.0 | 2010 | 4.529E-06 | 1.449E-05 | 800 |
| 100.0 | 3025 | 6.815E-06 | 2.181E-05 | 800 |
| 103.0 | 1141 | 2.571E-06 | 8.227E-06 | 800 |
| 106.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 1.663E-03 SEC/SQ.M 5.320E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 0 | 0. | 0. | 800 |
| 79.0 | 34 | 8.828E-08 | 4.943E-07 | 800 |
| 82.0 | 725 | 1.864E-06 | 1.044E-05 | 800 |
| 85.0 | 557 | 1.432E-06 | 8.019E-06 | 800 |
| 88.0 | 1678 | 4.314E-06 | 2.416E-05 | 800 |
| 91.0 | 3607 | 9.274E-06 | 5.194E-05 | 800 |
| 94.0 | 3743 | 9.624E-06 | 5.390E-05 | 800 |
| 97.0 | 2994 | 7.699E-06 | 4.311E-05 | 800 |
| 100.0 | 3607 | 9.274E-06 | 5.194E-05 | 800 |
| 103.0 | 2109 | 5.423E-06 | 3.037E-05 | 800 |
| 106.0 | 177 | 4.550E-07 | 2.548E-06 | 800 |
| 109.0 | 10 | 2.742E-08 | 1.536E-07 | 800 |

CROSSWIND INTEGRATED= 2.072E-03 SEC/SQ.M 1.161E-02 1/M

TEST U54 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 78.0 | 0 | 0. | 0. | 1200 |
| 80.0 | 56 | 1.278E-07 | 4.091E-07 | 1200 |
| 82.0 | 200 | 4.526E-07 | 1.449E-06 | 1200 |
| 84.0 | 279 | 6.289E-07 | 2.012E-06 | 1200 |
| 86.0 | 605 | 1.363E-06 | 4.362E-06 | 1200 |
| 88.0 | 388 | 8.742E-07 | 2.797E-06 | 1200 |
| 90.0 | 1244 | 2.804E-06 | 8.973E-06 | 1200 |
| 92.0 | 1010 | 2.275E-06 | 7.281E-06 | 1200 |
| 94.0 | 836 | 1.883E-06 | 6.026E-06 | 1200 |
| 96.0 | 378 | 8.517E-07 | 2.726E-06 | 1200 |
| 98.0 | 276 | 6.237E-07 | 1.996E-06 | 1200 |
| 100.0 | 971 | 2.189E-06 | 7.005E-06 | 1200 |
| 102.0 | 642 | 1.448E-06 | 4.633E-06 | 1200 |
| 104.0 | 58 | 1.313E-07 | 4.202E-07 | 1200 |
| 106.0 | 6 | 1.555E-08 | 4.976E-08 | 1200 |
| 108.0 | 31 | 7.083E-08 | 2.267E-07 | 1200 |
| 110.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 6.593E-04 SEC/SQ.M 2.110E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 19 | 4.924E-08 | 2.757E-07 | 1200 |
| E 80.0 | 55 | 1.422E-07 | 7.964E-07 | 1200 |
| 82.0 | 134 | 3.468E-07 | 1.942E-06 | 1200 |
| 84.0 | 276 | 7.110E-07 | 3.982E-06 | 1200 |
| E 86.0 | 391 | 1.005E-06 | 5.630E-06 | 1200 |
| 88.0 | 276 | 7.104E-07 | 3.981E-06 | 1200 |
| 90.0 | 2316 | 5.954E-06 | 3.334E-05 | 1200 |
| 92.0 | 2733 | 7.028E-06 | 3.936E-05 | 1200 |
| 94.0 | 2164 | 5.563E-06 | 3.115E-05 | 1200 |
| 96.0 | 1556 | 4.001E-06 | 2.241E-05 | 1200 |
| 98.0 | 1328 | 3.415E-06 | 1.913E-05 | 1200 |
| 100.0 | 1822 | 4.685E-06 | 2.623E-05 | 1200 |
| 102.0 | 1936 | 4.978E-06 | 2.787E-05 | 1200 |
| 104.0 | 330 | 8.505E-07 | 4.763E-06 | 1200 |
| 106.0 | 20 | 5.389E-08 | 3.018E-07 | 1200 |
| 108.0 | 5 | 1.437E-08 | 8.045E-08 | 1200 |
| 110.0 | 0 | 3.255E-10 | 1.823E-09 | 1200 |

CROSSWIND INTEGRATED= 1.655E-03 SEC/SQ.M 9.268E-03 1/M

TEST U54 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 80.0 | 0 | 0. | 0. | 1600 |
| 82.0 | 42 | 9.502E-08 | 3.041E-07 | 1600 |
| 84.0 | 154 | 3.473E-07 | 1.111E-06 | 1600 |
| 86.0 | 115 | 2.609E-07 | 8.346E-07 | 1600 |
| 88.0 | 212 | 4.796E-07 | 1.531E-06 | 1600 |
| 90.0 | 612 | 1.380E-06 | 4.417E-06 | 1600 |
| 92.0 | 596 | 1.344E-06 | 4.301E-06 | 1600 |
| 94.0 | 499 | 1.125E-06 | 3.599E-06 | 1600 |
| 96.0 | 470 | 1.059E-06 | 3.389E-06 | 1600 |
| 98.0 | 562 | 1.266E-06 | 4.052E-06 | 1600 |
| 100.0 | 545 | 1.228E-06 | 3.931E-06 | 1600 |
| 102.0 | 373 | 8.414E-07 | 2.692E-06 | 1600 |
| 104.0 | 75 | 1.710E-07 | 5.473E-07 | 1600 |
| 106.0 | 10 | 2.419E-08 | 7.740E-08 | 1600 |
| 108.0 | 28 | 6.392E-08 | 2.046E-07 | 1600 |
| 110.0 | 0 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 5.409E-04 SEC/SQ.M 1.731E-03 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 80.0 | 0 | 0. | 0. | 1600 |
| 82.0 | 20 | 5.234E-08 | 2.931E-07 | 1600 |
| E 84.0 | 149 | 3.855E-07 | 2.159E-06 | 1600 |
| 86.0 | 379 | 9.744E-07 | 5.457E-06 | 1600 |
| 88.0 | 568 | 1.463E-06 | 8.191E-06 | 1600 |
| 90.0 | 1252 | 3.220E-06 | 1.803E-05 | 1600 |
| 92.0 | 2240 | 5.759E-06 | 3.225E-05 | 1600 |
| 94.0 | 2164 | 5.563E-06 | 3.115E-05 | 1600 |
| 96.0 | 1698 | 4.880E-06 | 2.733E-05 | 1600 |
| 98.0 | 1214 | 3.122E-06 | 1.749E-05 | 1600 |
| 100.0 | 1366 | 3.513E-06 | 1.967E-05 | 1600 |
| 102.0 | 1290 | 3.318E-06 | 1.858E-05 | 1600 |
| 104.0 | 222 | 5.715E-07 | 3.200E-06 | 1600 |
| 106.0 | 37 | 9.573E-08 | 5.361E-07 | 1600 |
| 108.0 | 1 | 4.138E-09 | 2.317E-08 | 1600 |
| 110.0 | 0 | 6.974E-10 | 3.905E-09 | 1600 |

CROSSWIND INTEGRATED= 1.839E-03 SEC/SQ.M 1.030E-02 1/M



1202720

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 84.0 | 0 | 0. | 0. | 3200 |
| | 86.0 | 22 | 4.994E-08 | 1.598E-07 | 3200 |
| | 88.0 | 38 | 8.763E-08 | 2.804E-07 | 3200 |
| | 90.0 | 117 | 2.638E-07 | 8.443E-07 | 3200 |
| | 92.0 | 212 | 4.777E-07 | 1.529E-06 | 3200 |
| | 94.0 | 137 | 3.100E-07 | 9.920E-07 | 3200 |
| 4 | 96.0 | 135 | 3.044E-07 | 9.739E-07 | 3200 |
| | 98.0 | 145 | 3.279E-07 | 1.049E-06 | 3200 |
| 3 | 100.0 | 97 | 2.205E-07 | 7.056E-07 | 3200 |
| | 102.0 | 94 | 2.120E-07 | 6.784E-07 | 3200 |
| | 104.0 | 54 | 1.225E-07 | 3.920E-07 | 3200 |
| | 106.0 | 1 | 3.769E-09 | 1.206E-08 | 3200 |
| | 108.0 | 0 | 0. | 0. | 3200 |

CROSSWIND INTEGRATED= 2.659E-04 SEC/SQ.M 8.508E-04 1/M

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 82.0 | 0 | 0. | 0. | 3200 |
| E | 84.0 | 2 | 7.221E-09 | 4.044E-08 | 3200 |
| | 86.0 | 24 | 6.341E-08 | 3.551E-07 | 3200 |
| | 88.0 | 81 | 2.083E-07 | 1.167E-06 | 3200 |
| | 90.0 | 361 | 9.288E-07 | 5.201E-06 | 3200 |
| | 92.0 | 315 | 8.104E-07 | 4.538E-06 | 3200 |
| | 94.0 | 749 | 1.926E-06 | 1.079E-05 | 3200 |
| 4 | 96.0 | 611 | 1.571E-06 | 8.799E-06 | 3200 |
| | 98.0 | 413 | 1.064E-06 | 5.958E-06 | 3200 |
| | 100.0 | 519 | 1.334E-06 | 7.473E-06 | 3200 |
| | 102.0 | 571 | 1.470E-06 | 8.231E-06 | 3200 |
| | 104.0 | 246 | 6.350E-07 | 3.556E-06 | 3200 |
| | 106.0 | 29 | 7.629E-08 | 4.272E-07 | 3200 |
| | 108.0 | 2 | 7.221E-09 | 4.044E-08 | 3200 |

CROSSWIND INTEGRATED= 1.128E-03 SEC/SQ.M 6.319E-03 1/M





1202729

SAMPLING 800M TO 12800M. NO TOWER SAMPLING.
EQUIPMENT DIFFICULTIES DURING ASSAY OF FLUORESCEIN FILTERS FOR 800M, 1200M, AND 2200M ARCS.
5000P ARC TRUNCATED ON NORTH. 7000M AND 12800M ARC DATA EXTRAPOLATED SLIGHTLY TO NORTH.

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 49.0 | 0 | 0. | 0. | 800 |
| | 52.0 | 28 | 8.330E-09 | 2.832E-08 | 800 |
| | 55.0 | 242 | 6.982E-08 | 2.374E-07 | 800 |
| | 58.0 | 2640 | 7.616E-07 | 2.590E-06 | 800 |
| | 61.0 | 9895 | 2.854E-06 | 9.704E-06 | 800 |
| | 64.0 | 28409 | 8.194E-06 | 2.786E-05 | 800 |
| | 67.0 | 38354 | 1.106E-05 | 3.761E-05 | 800 |
| | 70.0 | 46008 | 1.327E-05 | 4.512E-05 | 800 |
| | 73.0 | 42121 | 1.215E-05 | 4.131E-05 | 800 |
| | 76.0 | 48185 | 1.390E-05 | 4.725E-05 | 800 |
| E | 79.0 | 42634 | 1.230E-05 | 4.181E-05 | 800 |
| | 82.0 | 42465 | 1.225E-05 | 4.164E-05 | 800 |
| | 85.0 | 31799 | 9.172E-06 | 3.119E-05 | 800 |
| | 88.0 | 19108 | 5.512E-06 | 1.874E-05 | 800 |
| | 91.0 | 11972 | 3.453E-06 | 1.174E-05 | 800 |
| | 94.0 | 5499 | 1.586E-06 | 5.394E-06 | 800 |
| | 97.0 | 1419 | 4.094E-07 | 1.392E-06 | 800 |
| | 97.1 | 1964 | 5.665E-07 | 1.926E-06 | 806 |
| | 99.1 | 1622 | 4.681E-07 | 1.591E-06 | 809 |
| | 101.1 | 694 | 2.004E-07 | 6.615E-07 | 813 |
| | 103.0 | 341 | 9.842E-08 | 3.346E-07 | 816 |
| | 105.0 | 29 | 8.401E-09 | 2.856E-08 | 819 |
| | 106.9 | 16 | 4.801E-09 | 1.632E-08 | 823 |
| | 108.8 | 0 | 0. | 0. | 826 |

CROSSWIND INTEGRATED= 4.502E-03 SEC/SQ.M 1.531E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 40.0 | 35 | 1.337E-08 | 2.541E-08 | 800 |
| B | 43.0 | 124 | 4.661E-08 | 8.855E-08 | 800 |
| | 46.0 | 137 | 5.147E-08 | 9.779E-08 | 800 |
| | 49.0 | 98 | 3.688E-08 | 7.007E-08 | 800 |
| | 52.0 | 633 | 2.375E-07 | 4.512E-07 | 800 |
| | 55.0 | 20854 | 7.819E-06 | 1.486E-05 | 800 |
| | 58.0 | 41058 | 1.540E-05 | 2.925E-05 | 800 |
| | 61.0 | 69519 | 2.607E-05 | 4.953E-05 | 800 |
| | 64.0 | 73864 | 2.770E-05 | 5.262E-05 | 800 |
| | 67.0 | 39755 | 1.491E-05 | 2.832E-05 | 800 |
| | 70.0 | 44969 | 1.686E-05 | 3.204E-05 | 800 |
| | 73.0 | 29473 | 1.105E-05 | 2.100E-05 | 800 |
| | 76.0 | 26198 | 9.823E-06 | 1.866E-05 | 800 |
| | 79.0 | 34931 | 1.310E-05 | 2.489E-05 | 800 |
| | 82.0 | 18338 | 6.876E-06 | 1.306E-05 | 800 |
| | 85.0 | 6657 | 2.496E-06 | 4.743E-06 | 800 |
| | 88.0 | 3811 | 1.429E-06 | 2.715E-06 | 800 |
| | 91.0 | 3198 | 1.199E-06 | 2.278E-06 | 800 |
| | 94.0 | 1067 | 4.077E-07 | 7.746E-07 | 800 |
| | 97.0 | 236 | 8.855E-08 | 1.682E-07 | 800 |
| | 97.1 | 214 | 8.058E-08 | 1.531E-07 | 806 |
| | 99.1 | 35 | 1.343E-08 | 2.552E-08 | 809 |
| | 101.1 | 5 | 2.014E-09 | 3.827E-09 | 813 |

CROSSWIND INTEGRATED= 6.518E-03 SEC/SQ.M 1.238E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 54.0 | 0 | 0. | 0. | 1200 |
| | 56.0 | 24 | 7.202E-09 | 2.449E-08 | 1200 |
| | 58.0 | 253 | 7.318E-08 | 2.488E-07 | 1200 |
| | 60.0 | 1113 | 3.211E-07 | 1.092E-06 | 1200 |
| | 62.0 | 5946 | 1.715E-06 | 5.832E-06 | 1200 |
| P | 64.0 | 9538 | 2.751E-06 | 9.354E-06 | 1200 |
| P | 66.0 | 15495 | 4.470E-06 | 1.520E-05 | 1200 |
| | 68.0 | 17036 | 4.914E-06 | 1.671E-05 | 1200 |
| | 70.0 | 26928 | 7.767E-06 | 2.641E-05 | 1200 |
| | 72.0 | 28920 | 8.342E-06 | 2.836E-05 | 1200 |
| | 74.0 | 26289 | 7.583E-06 | 2.578E-05 | 1200 |
| | 76.0 | 24221 | 6.986E-06 | 2.375E-05 | 1200 |
| | 78.0 | 24774 | 7.146E-06 | 2.430E-05 | 1200 |
| | 80.0 | 25339 | 7.309E-06 | 2.485E-05 | 1200 |
| | 82.0 | 21812 | 6.291E-06 | 2.139E-05 | 1200 |
| | 84.0 | 20812 | 6.003E-06 | 2.041E-05 | 1200 |
| | 86.0 | 17195 | 4.960E-06 | 1.686E-05 | 1200 |
| | 88.0 | 14891 | 4.295E-06 | 1.460E-05 | 1200 |
| | 90.0 | 11877 | 3.426E-06 | 1.165E-05 | 1200 |
| | 92.0 | 5802 | 1.674E-06 | 5.690E-06 | 1200 |
| | 94.0 | 4202 | 1.212E-06 | 4.122E-06 | 1200 |
| W | 96.0 | 2467 | 7.116E-07 | 2.419E-06 | 1200 |
| W | 98.0 | 1266 | 3.654E-07 | 1.242E-06 | 1200 |
| | 100.0 | 521 | 1.503E-07 | 5.110E-07 | 1200 |
| | 102.0 | 364 | 1.050E-07 | 3.570E-07 | 1200 |
| | 104.0 | 135 | 3.903E-08 | 1.327E-07 | 1200 |
| | 106.0 | 117 | 3.392E-08 | 1.153E-07 | 1200 |
| | 108.0 | 24 | 6.969E-09 | 2.370E-08 | 1200 |
| | 110.0 | 3 | 9.293E-10 | 3.159E-09 | 1200 |
| | 112.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 3.714E-03 SEC/SQ.M 1.263E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 54.0 | 31 | 1.198E-08 | 2.277E-08 | 1200 |
| | 56.0 | 2446 | 9.173E-07 | 1.743E-06 | 1200 |
| | 58.0 | 9434 | 3.538E-06 | 6.721E-06 | 1200 |
| | 60.0 | 13091 | 4.909E-06 | 9.327E-06 | 1200 |
| | 62.0 | 21250 | 7.968E-06 | 1.514E-05 | 1200 |
| P | 64.0 | 7977 | 2.991E-06 | 5.683E-06 | 1200 |
| P | 66.0 | 20033 | 7.511E-06 | 1.427E-05 | 1200 |
| | 68.0 | 24295 | 9.110E-06 | 1.731E-05 | 1200 |
| | 70.0 | 19424 | 7.283E-06 | 1.384E-05 | 1200 |
| | 72.0 | 25513 | 9.566E-06 | 1.818E-05 | 1200 |
| | 74.0 | 16379 | 6.142E-06 | 1.167E-05 | 1200 |
| | 76.0 | 13335 | 5.000E-06 | 9.500E-06 | 1200 |
| | 78.0 | 10899 | 4.087E-06 | 7.765E-06 | 1200 |
| | 80.0 | 12543 | 4.703E-06 | 8.936E-06 | 1200 |
| | 82.0 | 10067 | 3.775E-06 | 7.172E-06 | 1200 |
| | 84.0 | 6016 | 2.256E-06 | 4.286E-06 | 1200 |
| | 86.0 | 6902 | 2.588E-06 | 4.918E-06 | 1200 |
| | 88.0 | 2978 | 1.117E-06 | 2.122E-06 | 1200 |
| | 90.0 | 1686 | 6.325E-07 | 1.202E-06 | 1200 |
| | 92.0 | 598 | 2.242E-07 | 4.261E-07 | 1200 |
| | 94.0 | 661 | 2.480E-07 | 4.711E-07 | 1200 |
| W | 96.0 | 65 | 2.439E-08 | 4.635E-08 | 1200 |
| W | 98.0 | 8 | 3.031E-09 | 5.759E-09 | 1200 |

CROSSWIND INTEGRATED= 3.544E-03 SEC/SQ.M 6.733E-03 1/M



1202730

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 56.0 | 0 | 0. | 0. | 1600 |
| 58.0 | 8 | 2.555E-09 | 8.689E-09 | 1600 |
| 60.0 | 69 | 1.998E-08 | 6.793E-08 | 1600 |
| 62.0 | 1277 | 3.685E-07 | 1.253E-06 | 1600 |
| 64.0 | 4693 | 1.354E-06 | 4.603E-06 | 1600 |
| 66.0 | 8089 | 2.333E-06 | 7.933E-06 | 1600 |
| 68.0 | 12410 | 3.580E-06 | 1.217E-05 | 1600 |
| 70.0 | 17538 | 5.059E-06 | 1.720E-05 | 1600 |
| 72.0 | 22239 | 6.414E-06 | 2.181E-05 | 1600 |
| 74.0 | 24056 | 6.939E-06 | 2.359E-05 | 1600 |
| 76.0 | 22135 | 6.385E-06 | 2.171E-05 | 1600 |
| 78.0 | 21601 | 6.231E-06 | 2.118E-05 | 1600 |
| 80.0 | 20906 | 6.030E-06 | 2.050E-05 | 1600 |
| 82.0 | 19526 | 5.632E-06 | 1.915E-05 | 1600 |
| 84.0 | 13411 | 3.868E-06 | 1.315E-05 | 1600 |
| 86.0 | 12895 | 3.720E-06 | 1.265E-05 | 1600 |
| 88.0 | 9365 | 2.701E-06 | 9.185E-06 | 1600 |
| 90.0 | 9576 | 2.762E-06 | 9.392E-06 | 1600 |
| 92.0 | 4678 | 1.350E-06 | 4.588E-06 | 1600 |
| 93.6 | 4154 | 1.198E-06 | 4.074E-06 | 1603 |
| 94.0 | 4001 | 1.154E-06 | 3.924E-06 | 1600 |
| 94.6 | 3887 | 1.121E-06 | 3.812E-06 | 1604 |
| 95.6 | 3178 | 9.169E-07 | 3.117E-06 | 1606 |
| S 96.6 | 1838 | 5.304E-07 | 1.803E-06 | 1608 |
| 97.6 | 1761 | 5.081E-07 | 1.727E-06 | 1610 |
| 98.6 | 929 | 2.681E-07 | 9.116E-07 | 1611 |
| 99.6 | 918 | 2.648E-07 | 9.003E-07 | 1613 |
| 100.6 | 989 | 2.855E-07 | 9.706E-07 | 1615 |
| 101.6 | 966 | 2.789E-07 | 9.481E-07 | 1617 |
| 102.6 | 258 | 7.447E-08 | 2.532E-07 | 1618 |
| 103.6 | 404 | 1.167E-07 | 3.967E-07 | 1620 |
| 104.5 | 83 | 2.400E-08 | 8.159E-08 | 1622 |
| 105.5 | 37 | 1.076E-08 | 3.658E-08 | 1623 |
| 106.5 | 11 | 3.310E-09 | 1.125E-08 | 1625 |
| 107.5 | 14 | 4.137E-09 | 1.407E-08 | 1627 |
| 108.5 | 57 | 1.655E-08 | 5.627E-08 | 1628 |
| 109.5 | 37 | 1.076E-08 | 3.658E-08 | 1630 |
| 110.4 | 0 | 0. | 0. | 1632 |

CROSSWIND INTEGRATED= 3.776E-03 SEC/SQ.M 1.284E-02 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 56.0 | 25 | 9.607E-09 | 1.825E-08 | 1600 |
| 58.0 | 598 | 2.246E-07 | 4.267E-07 | 1600 |
| 60.0 | 3244 | 1.217E-06 | 2.312E-06 | 1600 |
| 62.0 | 7549 | 2.831E-06 | 5.378E-06 | 1600 |
| 64.0 | 12922 | 4.845E-06 | 9.206E-06 | 1600 |
| 66.0 | 16393 | 6.147E-06 | 1.168E-05 | 1600 |
| 68.0 | 19437 | 7.288E-06 | 1.385E-05 | 1600 |
| 70.0 | 20655 | 7.745E-06 | 1.472E-05 | 1600 |
| 72.0 | 26135 | 9.800E-06 | 1.862E-05 | 1600 |
| 74.0 | 8538 | 3.202E-06 | 6.083E-06 | 1600 |
| 76.0 | 5172 | 1.939E-06 | 3.685E-06 | 1600 |
| 78.0 | 11095 | 4.160E-06 | 7.905E-06 | 1600 |
| 80.0 | 6711 | 2.517E-06 | 4.782E-06 | 1600 |
| 82.0 | 7807 | 2.928E-06 | 5.562E-06 | 1600 |
| 84.0 | 5270 | 1.976E-06 | 3.755E-06 | 1600 |
| 86.0 | 3371 | 1.264E-06 | 2.402E-06 | 1600 |
| 88.0 | 2611 | 9.793E-07 | 1.861E-06 | 1600 |
| 90.0 | 1890 | 7.088E-07 | 1.347E-06 | 1600 |
| 92.0 | 510 | 1.913E-07 | 3.636E-07 | 1600 |
| 93.6 | 355 | 1.334E-07 | 2.534E-07 | 1603 |
| 94.0 | 184 | 6.935E-08 | 1.318E-07 | 1600 |
| 94.6 | 157 | 5.899E-08 | 1.121E-07 | 1604 |
| 95.6 | 235 | 8.821E-08 | 1.676E-07 | 1606 |
| S 96.6 | 178 | 6.696E-08 | 1.272E-07 | 1608 |
| 97.6 | 62 | 2.356E-08 | 4.476E-08 | 1610 |
| 98.6 | 16 | 6.111E-09 | 1.161E-08 | 1611 |
| 99.6 | 2 | 1.063E-09 | 2.019E-09 | 1613 |

CROSSWIND INTEGRATED= 3.360E-03 SEC/SQ.M 6.383E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 60.0 | 0 | 0. | 0. | 2200 |
| S 62.0 | 38 | 1.098E-08 | 3.734E-08 | 2200 |
| 64.0 | 711 | 2.051E-07 | 6.975E-07 | 2200 |
| 66.0 | 2622 | 7.565E-07 | 2.572E-06 | 2200 |
| 4 68.0 | 3074 | 8.867E-07 | 3.015E-06 | 2200 |
| 0 70.0 | 7512 | 2.167E-06 | 7.367E-06 | 2200 |
| 72.0 | 12205 | 3.521E-06 | 1.197E-05 | 2200 |
| 74.0 | 14065 | 4.057E-06 | 1.379E-05 | 2200 |
| 76.0 | 10319 | 2.977E-06 | 1.012E-05 | 2200 |
| C 78.0 | 15216 | 4.389E-06 | 1.492E-05 | 2200 |
| 80.0 | 10131 | 2.922E-06 | 9.935E-06 | 2200 |
| C 82.0 | 5880 | 1.696E-06 | 5.767E-06 | 2200 |
| E 84.0 | 5020 | 1.448E-06 | 4.923E-06 | 2200 |
| S 86.0 | 4355 | 1.256E-06 | 4.271E-06 | 2200 |
| 4 88.0 | 5788 | 1.669E-06 | 5.676E-06 | 2200 |
| 90.0 | 6527 | 1.883E-06 | 6.401E-06 | 2200 |
| 92.0 | 5051 | 1.457E-06 | 4.954E-06 | 2200 |
| S 94.0 | 3120 | 9.000E-07 | 3.060E-06 | 2200 |
| T 96.0 | 2133 | 6.154E-07 | 2.092E-06 | 2200 |
| E 98.0 | 1213 | 3.499E-07 | 1.190E-06 | 2200 |
| O 100.0 | 727 | 2.097E-07 | 7.131E-07 | 2200 |
| C 102.0 | 702 | 2.027E-07 | 6.893E-07 | 2200 |
| 104.0 | 267 | 7.711E-08 | 2.622E-07 | 2200 |
| E 106.0 | 230 | 6.637E-08 | 2.257E-07 | 2200 |
| 108.0 | 179 | 5.165E-08 | 1.756E-07 | 2200 |
| 110.0 | 19 | 5.551E-09 | 1.887E-08 | 2200 |
| F 112.0 | 4 | 1.207E-09 | 4.103E-09 | 2200 |
| 114.0 | 1 | 4.827E-10 | 1.641E-09 | 2200 |
| 116.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 2.594E-03 SEC/SQ.M 8.820E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 48.0 | 33 | 1.259E-08 | 2.391E-08 | 2200 |
| 50.0 | 24 | 9.064E-09 | 1.722E-08 | 2200 |
| 52.0 | 11 | 4.465E-09 | 8.522E-09 | 2200 |
| 54.0 | 4 | 1.550E-09 | 2.945E-09 | 2200 |
| 56.0 | 13 | 5.190E-09 | 9.860E-09 | 2200 |
| Z 58.0 | 3 | 1.198E-09 | 2.275E-09 | 2200 |
| 60.0 | 28 | 1.083E-08 | 2.057E-08 | 2200 |
| S 62.0 | 938 | 3.518E-07 | 6.684E-07 | 2200 |
| 64.0 | 5302 | 1.988E-06 | 3.778E-06 | 2200 |
| 66.0 | 8845 | 3.316E-06 | 6.301E-06 | 2200 |
| 4 68.0 | 9793 | 3.672E-06 | 6.977E-06 | 2200 |
| 0 70.0 | 9161 | 3.435E-06 | 6.527E-06 | 2200 |
| 72.0 | 12640 | 4.740E-06 | 9.005E-06 | 2200 |
| 74.0 | 7263 | 2.724E-06 | 5.175E-06 | 2200 |
| 3 76.0 | 12956 | 4.858E-06 | 9.230E-06 | 2200 |
| 0 78.0 | 10426 | 3.909E-06 | 7.428E-06 | 2200 |
| 80.0 | 6947 | 2.605E-06 | 4.949E-06 | 2200 |
| E 82.0 | 5302 | 1.988E-06 | 3.778E-06 | 2200 |
| B 84.0 | 4733 | 1.775E-06 | 3.372E-06 | 2200 |
| S 86.0 | 3211 | 1.204E-06 | 2.288E-06 | 2200 |
| 4 88.0 | 2159 | 8.097E-07 | 1.538E-06 | 2200 |
| 90.0 | 1232 | 4.620E-07 | 8.779E-07 | 2200 |
| 92.0 | 896 | 3.363E-07 | 6.390E-07 | 2200 |
| T 94.0 | 541 | 2.031E-07 | 3.860E-07 | 2200 |
| E 96.0 | 239 | 8.996E-08 | 1.709E-07 | 2200 |
| E 98.0 | 102 | 3.830E-08 | 7.277E-08 | 2200 |
| O 100.0 | 49 | 1.857E-08 | 3.529E-08 | 2200 |
| C 102.0 | 42 | 1.611E-08 | 3.061E-08 | 2200 |
| 104.0 | 25 | 9.417E-09 | 1.789E-08 | 2200 |

CROSSWIND INTEGRATED= 2.964E-03 SEC/SQ.M 5.631E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
320DEG ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 64.0 | 0 | 0. | 0. | 3200 |
| 66.0 | 3 | 1.086E-09 | 3.695E-09 | 3200 |
| 4 64.0 | 33 | 9.533E-09 | 3.241E-08 | 3200 |
| 70.0 | 482 | 1.391E-07 | 4.731E-07 | 3200 |
| 72.7 | 3168 | 9.139E-07 | 3.107E-06 | 3168 |
| 73.7 | 2366 | 6.826E-07 | 2.321E-06 | 3170 |
| 74.7 | 3429 | 9.891E-07 | 3.363E-06 | 3172 |
| 75.7 | 5659 | 1.632E-06 | 5.550E-06 | 3173 |
| 76.8 | 3762 | 1.085E-06 | 3.690E-06 | 3175 |
| 77.8 | 4753 | 1.371E-06 | 4.661E-06 | 3177 |
| 78.8 | 5084 | 1.467E-06 | 4.987E-06 | 3179 |
| 79.8 | 4141 | 1.195E-06 | 4.062E-06 | 3180 |
| 80.8 | 3680 | 1.062E-06 | 3.610E-06 | 3182 |
| 81.8 | 4367 | 1.260E-06 | 4.283E-06 | 3184 |
| 82.8 | 3808 | 1.099E-06 | 3.735E-06 | 3185 |
| 83.8 | 7266 | 2.096E-06 | 7.126E-06 | 3187 |
| 84.8 | 5468 | 1.577E-06 | 5.362E-06 | 3189 |
| 85.8 | 3513 | 1.013E-06 | 3.446E-06 | 3191 |
| 86.8 | 3309 | 9.546E-07 | 3.246E-06 | 3192 |
| 87.8 | 3755 | 1.083E-06 | 3.683E-06 | 3194 |
| 88.8 | 2487 | 7.174E-07 | 2.439E-06 | 3196 |
| 89.8 | 3395 | 9.793E-07 | 3.330E-06 | 3198 |
| 90.8 | 3478 | 1.003E-06 | 3.411E-06 | 3199 |
| 91.8 | 4535 | 1.308E-06 | 4.446E-06 | 3201 |
| 92.8 | 1760 | 5.077E-07 | 1.726E-06 | 3203 |
| 4 93.8 | 1004 | 2.897E-07 | 9.851E-07 | 3205 |
| E 94.8 | 1005 | 2.901E-07 | 9.864E-07 | 3206 |
| 95.8 | 1342 | 3.873E-07 | 1.317E-06 | 3208 |
| 96.8 | 1491 | 4.301E-07 | 1.462E-06 | 3210 |
| 97.8 | 1022 | 2.948E-07 | 1.002E-06 | 3212 |
| 98.8 | 626 | 1.807E-07 | 6.145E-07 | 3213 |
| 99.8 | 1042 | 3.007E-07 | 1.022E-06 | 3215 |
| 100.8 | 549 | 1.584E-07 | 5.385E-07 | 3217 |
| 101.8 | 532 | 1.537E-07 | 5.225E-07 | 3218 |
| 102.8 | 498 | 1.439E-07 | 4.892E-07 | 3220 |
| 103.8 | 489 | 1.411E-07 | 4.799E-07 | 3222 |
| 104.8 | 352 | 1.015E-07 | 3.452E-07 | 3224 |
| 105.8 | 183 | 5.293E-08 | 1.799E-07 | 3225 |
| 106.8 | 86 | 2.509E-08 | 8.531E-08 | 3227 |
| 107.8 | 184 | 5.332E-08 | 1.813E-07 | 3229 |
| 108.8 | 236 | 6.822E-08 | 2.319E-07 | 3230 |
| 109.7 | 96 | 2.784E-08 | 9.464E-08 | 3232 |
| 110.7 | 58 | 1.686E-08 | 5.732E-08 | 3233 |
| 111.7 | 32 | 9.409E-09 | 3.199E-08 | 3235 |
| 112.7 | 0 | 0. | 0. | 3237 |

CROSSWIND INTEGRATED= 1.579E-03 SEC/SQ.M 5.368E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
320DEG ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 2 64.0 | 4 | 1.641E-09 | 3.212E-09 | 3200 |
| 3 66.0 | 27 | 1.032E-08 | 1.961E-08 | 3200 |
| 4 68.0 | 292 | 1.098E-07 | 2.086E-07 | 3200 |
| 2 70.0 | 1675 | 6.282E-07 | 1.193E-06 | 3200 |
| 72.7 | 4434 | 1.663E-06 | 3.159E-06 | 3168 |
| 73.7 | 4300 | 1.612E-06 | 3.064E-06 | 3170 |
| 74.7 | 4636 | 1.739E-06 | 3.303E-06 | 3172 |
| 75.7 | 5309 | 1.991E-06 | 3.783E-06 | 3173 |
| 76.8 | 4096 | 1.537E-06 | 2.920E-06 | 3175 |
| 77.8 | 4704 | 1.764E-06 | 3.351E-06 | 3177 |
| 78.8 | 3963 | 1.486E-06 | 2.824E-06 | 3179 |
| 79.8 | 3425 | 1.284E-06 | 2.440E-06 | 3180 |
| 80.8 | 3627 | 1.360E-06 | 2.584E-06 | 3182 |
| 81.8 | 3492 | 1.310E-06 | 2.488E-06 | 3184 |
| 82.8 | 2954 | 1.108E-06 | 2.105E-06 | 3185 |
| 83.8 | 3290 | 1.234E-06 | 2.344E-06 | 3187 |
| 84.8 | 3156 | 1.183E-06 | 2.249E-06 | 3189 |
| 85.8 | 2281 | 8.554E-07 | 1.625E-06 | 3191 |
| 86.8 | 1944 | 7.292E-07 | 1.386E-06 | 3192 |
| 87.8 | 2079 | 7.797E-07 | 1.481E-06 | 3194 |
| 88.8 | 1541 | 5.778E-07 | 1.098E-06 | 3196 |
| 89.8 | 1428 | 5.358E-07 | 1.018E-06 | 3198 |
| 90.8 | 1249 | 4.685E-07 | 8.901E-07 | 3199 |
| 91.8 | 1025 | 3.844E-07 | 7.303E-07 | 3201 |
| 92.8 | 755 | 2.835E-07 | 5.386E-07 | 3203 |
| 4 93.8 | 755 | 2.835E-07 | 5.386E-07 | 3205 |
| 0 94.8 | 527 | 1.977E-07 | 3.757E-07 | 3206 |
| 95.8 | 437 | 1.640E-07 | 3.116E-07 | 3208 |
| 96.8 | 410 | 1.539E-07 | 2.924E-07 | 3210 |
| 97.8 | 238 | 8.959E-08 | 1.702E-07 | 3212 |
| 98.8 | 131 | 4.914E-08 | 9.336E-08 | 3215 |
| 99.8 | 108 | 4.073E-08 | 7.738E-08 | 3215 |
| 100.8 | 156 | 5.875E-08 | 1.116E-07 | 3217 |
| 101.8 | 70 | 2.631E-08 | 4.998E-08 | 3218 |
| 102.8 | 22 | 8.263E-09 | 1.574E-08 | 3220 |
| 103.8 | 25 | 9.485E-09 | 1.802E-08 | 3222 |
| 104.8 | 23 | 8.604E-09 | 1.650E-08 | 3224 |
| 105.8 | 18 | 7.061E-09 | 1.345E-08 | 3225 |

CROSSWIND INTEGRATED= 1.572E-03 SEC/SQ.M 2.986E-03 1/M

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500DEG ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 825 | 2.362E-07 | 8.099E-07 | 4630 |
| S 84.0 | 1419 | 4.096E-07 | 1.393E-06 | 4620 |
| C 86.0 | 662 | 1.911E-07 | 6.499E-07 | 4610 |
| 88.0 | 1007 | 2.907E-07 | 9.884E-07 | 4610 |
| C 90.0 | 3479 | 1.004E-06 | 3.412E-06 | 4610 |
| 92.0 | 562 | 1.623E-07 | 5.516E-07 | 4620 |
| 94.0 | 420 | 1.214E-07 | 4.127E-07 | 4620 |
| F 96.0 | 1215 | 3.507E-07 | 1.192E-06 | 4620 |
| 98.0 | 386 | 1.121E-07 | 3.812E-07 | 4660 |
| 100.0 | 2197 | 6.338E-07 | 2.155E-06 | 4690 |
| 102.0 | 720 | 2.078E-07 | 7.065E-07 | 4710 |
| 104.0 | 1262 | 3.641E-07 | 1.238E-06 | 4770 |
| 106.0 | 390 | 1.126E-07 | 3.828E-07 | 4810 |
| 108.0 | 661 | 1.908E-07 | 6.487E-07 | 4870 |
| 110.0 | 46 | 1.327E-08 | 4.513E-08 | 4920 |

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
500DEG ARC SAMPLER HT 1.5M U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 1201 | 4.505E-07 | 8.559E-07 | 4630 |
| S 84.0 | 1536 | 5.762E-07 | 1.095E-06 | 4620 |
| C 86.0 | 1201 | 4.505E-07 | 8.559E-07 | 4610 |
| 88.0 | 1221 | 4.579E-07 | 8.700E-07 | 4610 |
| C 90.0 | 1839 | 6.897E-07 | 1.310E-06 | 4610 |
| 92.0 | 727 | 2.730E-07 | 5.186E-07 | 4620 |
| 94.0 | 491 | 1.842E-07 | 3.500E-07 | 4620 |
| F 96.0 | 267 | 1.004E-07 | 1.907E-07 | 4620 |
| 98.0 | 215 | 8.064E-08 | 1.532E-07 | 4660 |
| 100.0 | 359 | 1.349E-07 | 2.563E-07 | 4690 |
| 102.0 | 221 | 8.310E-08 | 1.579E-07 | 4710 |
| 104.0 | 247 | 9.296E-08 | 1.766E-07 | 4770 |
| 106.0 | 45 | 1.702E-08 | 3.234E-08 | 4810 |
| 108.0 | 45 | 1.702E-08 | 3.234E-08 | 4870 |
| 110.0 | 4 | 1.852E-09 | 3.518E-09 | 4920 |

CROSSWIND INTEGRATED= 5.852E-04 SEC/SQ.M 1.106E-03 1/M



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| | | | | |
|---|---|---|---|---|
| 112.0 | 5 | 1.448E-09 | 4.923E-09 | 4990 |
| 114.0 | 9 | 2.655E-09 | 9.026E-09 | 5080 |
| 116.0 | 0 | 0. | 0. | 5020 |

CROSSWIND INTEGRATED= 7.170E-04 SEC/SQ.M  2.438E-03 1/M

TEST U59  JUNE 3, 1968  0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC  SAMPLER HT 1.5M  U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 70.0 | 14 | 4.103E-09 | 1.395E-08 | 0 |
| E 72.0 | 28 | 8.085E-09 | 2.749E-08 | 0 |
| E 74.0 | 48 | 1.400E-08 | 4.759E-08 | 0 |
| 76.0 | 75 | 2.184E-08 | 7.426E-08 | 6280 |
| 78.0 | 105 | 3.053E-08 | 1.038E-07 | 6300 |
| C 80.0 | 157 | 4.537E-08 | 1.543E-07 | 6400 |
| 82.0 | 384 | 1.110E-07 | 3.775E-07 | 6490 |
| 84.0 | 898 | 2.592E-07 | 8.813E-07 | 6500 |
| 85.0 | 346 | 9.992E-08 | 3.397E-07 | 6500 |
| 88.0 | 547 | 1.578E-07 | 5.367E-07 | 6480 |
| D 90.0 | 473 | 1.366E-07 | 4.644E-07 | 6500 |
| 92.0 | 1672 | 4.824E-07 | 1.640E-06 | 6490 |
| 4 94.0 | 79 | 2.305E-08 | 7.836E-08 | 6500 |
| D 96.0 | 46 | 1.352E-08 | 4.595E-08 | 6510 |
| 98.0 | 191 | 5.527E-08 | 1.879E-07 | 6520 |
| 100.0 | 210 | 6.082E-08 | 2.068E-07 | 6560 |
| D 102.0 | 241 | 6.963E-08 | 2.367E-07 | 6610 |
| 104.0 | 337 | 9.726E-08 | 3.307E-07 | 6650 |
| 106.0 | 134 | 3.874E-08 | 1.317E-07 | 6720 |
| 108.0 | 71 | 2.063E-08 | 7.016E-08 | 6800 |
| 110.0 | 39 | 1.134E-08 | 3.857E-08 | 7000 |
| 112.0 | 11 | 3.258E-09 | 1.108E-08 | 7300 |
| 114.0 | 9 | 2.775E-09 | 9.437E-09 | 7210 |
| 116.0 | 0 | 0. | 0. | 7220 |

CROSSWIND INTEGRATED= 3.960E-04 SEC/SQ.M  1.346E-03 1/M

TEST U59  JUNE 3, 1968  0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC  SAMPLER HT 1.5M  U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 89.0 | 1 | 3.620E-10 | 1.231E-09 | 12600 |
| E 90.0 | 14 | 4.224E-09 | 1.436E-08 | 12800 |
| 91.0 | 25 | 7.482E-09 | 2.544E-08 | 12800 |
| 92.0 | 82 | 2.389E-08 | 8.124E-08 | 12800 |
| 93.0 | 68 | 1.967E-08 | 6.688E-08 | 12800 |
| 94.0 | 95 | 2.751E-08 | 9.354E-08 | 12800 |
| 95.0 | 69 | 2.015E-08 | 6.852E-08 | 12800 |
| 96.0 | 82 | 2.365E-08 | 8.042E-08 | 12800 |
| 97.0 | 97 | 2.800E-08 | 9.519E-08 | 12800 |
| 98.0 | 156 | 4.525E-08 | 1.539E-07 | 12800 |
| 99.0 | 87 | 2.534E-08 | 8.616E-08 | 12800 |
| 100.0 | 217 | 6.275E-08 | 2.133E-07 | 12800 |
| 101.0 | 162 | 4.682E-08 | 1.592E-07 | 12800 |
| 102.0 | 93 | 2.691E-08 | 9.149E-08 | 12800 |
| 103.0 | 74 | 2.160E-08 | 7.344E-08 | 12800 |
| 104.0 | 99 | 2.884E-08 | 9.800E-08 | 12800 |
| 105.0 | 63 | 1.834E-08 | 6.236E-08 | 12800 |
| 106.0 | 20 | 5.792E-09 | 1.969E-08 | 12800 |
| 107.0 | 27 | 7.844E-09 | 2.667E-08 | 12800 |
| 108.0 | 23 | 6.878E-09 | 2.339E-08 | 12800 |
| 109.0 | 13 | 3.861E-09 | 1.313E-08 | 12800 |
| 110.0 | 13 | 3.861E-09 | 1.313E-08 | 12800 |
| 111.0 | 1 | 4.827E-10 | 1.641E-09 | 12800 |
| 112.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 1.027E-04 SEC/SQ.M  3.490E-04 1/M

TEST U59  JUNE 3, 1968  0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC  SAMPLER HT 1.5M  U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 66.0 | 8 | 3.023E-09 | 5.744E-09 | 0 |
| E 68.0 | 23 | 8.894E-09 | 1.690E-08 | 0 |
| E 70.0 | 45 | 1.711E-08 | 3.251E-08 | 0 |
| E 72.0 | 73 | 2.768E-08 | 5.259E-08 | 0 |
| E 74.0 | 111 | 4.177E-08 | 7.936E-08 | 0 |
| B 76.0 | 183 | 6.878E-08 | 1.307E-07 | 6280 |
| 78.0 | 252 | 9.461E-08 | 1.798E-07 | 6300 |
| Z 80.0 | 242 | 9.106E-08 | 1.731E-07 | 6400 |
| 82.0 | 768 | 2.880E-07 | 5.472E-07 | 6490 |
| 84.0 | 1004 | 3.768E-07 | 7.158E-07 | 6500 |
| 86.0 | 768 | 2.880E-07 | 5.472E-07 | 6500 |
| 88.0 | 689 | 2.584E-07 | 4.910E-07 | 6480 |
| Z 90.0 | 590 | 2.214E-07 | 4.207E-07 | 6500 |
| 92.0 | 1024 | 3.841E-07 | 7.299E-07 | 6490 |
| 4 94.0 | 217 | 8.169E-08 | 1.552E-07 | 6500 |
| E 96.0 | 208 | 7.817E-08 | 1.485E-07 | 6510 |
| 98.0 | 221 | 8.286E-08 | 1.574E-07 | 6520 |
| 100.0 | 217 | 8.169E-08 | 1.552E-07 | 6560 |
| Z 102.0 | 180 | 6.760E-08 | 1.284E-07 | 6610 |
| 104.0 | 127 | 4.764E-08 | 9.052E-08 | 6650 |
| 106.0 | 37 | 1.394E-08 | 2.649E-08 | 6720 |
| 108.0 | 21 | 7.955E-09 | 1.511E-08 | 6800 |
| 100.0 | 9 | 3.610E-09 | 6.860E-09 | 6560 |
| 112.0 | 14 | 5.607E-09 | 1.065E-08 | 7360 |

CROSSWIND INTEGRATED= 5.711E-04 SEC/SQ.M  1.085E-03 1/M

TEST U59  JUNE 3, 1968  0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC  SAMPLER HT 1.5M  U= 1.9 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 86.0 | 3 | 1.409E-09 | 2.677E-09 | 12800 |
| E 87.0 | 6 | 2.466E-09 | 4.685E-09 | 12800 |
| E 88.0 | 10 | 3.992E-09 | 7.585E-09 | 12800 |
| E 89.0 | 17 | 6.458E-09 | 1.227E-08 | 12800 |
| E 90.0 | 25 | 9.393E-09 | 1.785E-08 | 12800 |
| P 91.0 | 40 | 1.515E-08 | 2.878E-08 | 12800 |
| E 92.0 | 81 | 3.065E-08 | 5.823E-08 | 12800 |
| 93.0 | 97 | 3.652E-08 | 6.936E-08 | 12800 |
| 94.0 | 113 | 4.239E-08 | 8.053E-08 | 12800 |
| 95.0 | 141 | 5.295E-08 | 1.006E-07 | 12800 |
| 96.0 | 275 | 1.034E-07 | 1.965E-07 | 12800 |
| 97.0 | 235 | 8.818E-08 | 1.675E-07 | 12800 |
| 98.0 | 391 | 1.469E-07 | 2.791E-07 | 12800 |
| 99.0 | 275 | 1.034E-07 | 1.965E-07 | 12800 |
| 100.0 | 352 | 1.321E-07 | 2.510E-07 | 12800 |
| 101.0 | 257 | 9.640E-08 | 1.832E-07 | 12800 |
| 102.0 | 197 | 7.409E-08 | 1.408E-07 | 12800 |
| 103.0 | 144 | 5.413E-08 | 1.028E-07 | 12800 |
| 104.0 | 97 | 3.652E-08 | 6.936E-08 | 12800 |
| E 105.0 | 69 | 2.607E-08 | 4.953E-08 | 12800 |
| 106.0 | 49 | 1.857E-08 | 3.547E-08 | 12800 |
| 107.0 | 28 | 1.057E-08 | 2.008E-08 | 12800 |
| 108.0 | 15 | 5.753E-09 | 1.093E-08 | 12800 |
| 109.0 | 4 | 1.515E-09 | 2.878E-09 | 12800 |
| 110.0 | 3 | 1.198E-09 | 2.275E-09 | 12800 |

CROSSWIND INTEGRATED= 2.458E-04 SEC/SQ.M  4.670E-04 1/M



U59 1202733

SAMPLING BOOM TO 1200M, NO TOWER SAMPLING. MUCH DUST ON FILTERS. MANY FIELD PROBLEMS. MINIMAL EFFORT MADE TO "CORRECT" DATA DUE TO THE LARGE NUMBER OF UNCERTAINTIES. VERY SKEWED DISTRIBUTION. MOST ARCS ARE TRUNCATED ON NORTH END.

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 365 | 1.041E-07 | 4.162E-07 | 800 |
| | 43.0 | 333 | 9.501E-08 | 3.800E-07 | 800 |
| | 46.0 | 293 | 8.349E-08 | 3.340E-07 | 800 |
| | 49.0 | 408 | 1.164E-07 | 4.650E-07 | 800 |
| | 52.0 | 550 | 1.567E-07 | 6.268E-07 | 800 |
| | 55.0 | 413 | 1.176E-07 | 4.705E-07 | 800 |
| | 58.0 | 554 | 1.579E-07 | 6.318E-07 | 800 |
| | 61.0 | 645 | 1.839E-07 | 7.354E-07 | 800 |
| | 64.0 | 544 | 1.551E-07 | 6.202E-07 | 800 |
| | 67.0 | 645 | 1.839E-07 | 7.354E-07 | 800 |
| | 70.0 | 642 | 1.830E-07 | 7.321E-07 | 800 |
| | 73.0 | 792 | 2.256E-07 | 9.032E-07 | 800 |
| | 76.0 | 831 | 2.369E-07 | 9.476E-07 | 800 |
| | 79.0 | 1015 | 2.891E-07 | 1.157E-06 | 800 |
| | 82.0 | 1013 | 2.867E-07 | 1.155E-06 | 800 |
| | 85.0 | 1224 | 3.488E-07 | 1.395E-06 | 800 |
| | 88.0 | 1116 | 3.179E-07 | 1.272E-06 | 800 |
| | 91.0 | 973 | 2.772E-07 | 1.109E-06 | 800 |
| | 94.0 | 976 | 2.780E-07 | 1.112E-06 | 800 |
| | 97.0 | 1717 | 4.890E-07 | 1.956E-06 | 800 |
| | 97.1 | 1605 | 4.572E-07 | 1.829E-06 | 800 |
| | 99.1 | 1840 | 5.241E-07 | 2.096E-06 | 809 |
| | 101.1 | 1074 | 3.060E-07 | 1.224E-06 | 813 |
| | 103.0 | 1405 | 4.002E-07 | 1.601E-06 | 816 |
| | 105.0 | 2070 | 5.898E-07 | 2.359E-06 | 820 |
| | 106.9 | 1705 | 4.857E-07 | 1.943E-06 | 823 |
| | 108.8 | 2022 | 5.761E-07 | 2.305E-06 | 826 |
| | 110.7 | 2175 | 6.195E-07 | 2.478E-06 | 829 |
| | 112.6 | 2631 | 7.496E-07 | 2.998E-06 | 833 |
| | 114.5 | 3397 | 9.677E-07 | 3.871E-06 | 836 |
| | 116.4 | 4067 | 1.158E-06 | 4.634E-06 | 839 |
| | 118.3 | 474 | 1.351E-07 | 5.402E-07 | 842 |
| | 120.2 | 321 | 9.169E-08 | 3.668E-07 | 845 |
| | 122.1 | 761 | 2.168E-07 | 8.673E-07 | 848 |
| | 124.0 | 1870 | 5.328E-07 | 2.131E-06 | 851 |
| | 125.8 | 1753 | 4.993E-07 | 1.997E-06 | 854 |
| E | 127.7 | 13050 | 3.717E-06 | 1.487E-05 | 857 |
| E | 129.5 | 26101 | 7.434E-06 | 2.974E-05 | 859 |
| E | 131.4 | 22621 | 6.443E-06 | 2.577E-05 | 862 |
| E | 133.2 | 19141 | 5.452E-06 | 2.181E-05 | 865 |
| E | 135.0 | 17400 | 4.956E-06 | 1.982E-05 | 867 |
| | 136.8 | 15512 | 4.418E-06 | 1.767E-05 | 869 |
| | 138.7 | 15156 | 4.317E-06 | 1.727E-05 | 872 |
| | 140.6 | 19654 | 5.596E-06 | 2.239E-05 | 874 |
| | 142.4 | 24056 | 6.852E-06 | 2.741E-05 | 876 |
| | 144.2 | 10775 | 3.069E-06 | 1.228E-05 | 878 |
| | 146.0 | 935 | 2.664E-07 | 1.066E-06 | 880 |
| | 147.8 | 213 | 6.071E-08 | 2.429E-07 | 882 |
| | 149.6 | 0 | 0. | 0. | 884 |

CROSS-WIND INTEGRATED= 1.855E-03 SEC/SQ.M 7.418E-03 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 2565 | 8.749E-07 | 1.050E-06 | 800 |
| | 43.0 | 2634 | 8.981E-07 | 1.078E-06 | 800 |
| | 46.0 | 2974 | 1.014E-06 | 1.217E-06 | 800 |
| | 49.0 | 2906 | 9.909E-07 | 1.189E-06 | 800 |
| | 52.0 | 4064 | 1.386E-06 | 1.663E-06 | 800 |
| | 55.0 | 4404 | 1.502E-06 | 1.802E-06 | 800 |
| | 58.0 | 5198 | 1.773E-06 | 2.127E-06 | 800 |
| | 61.0 | 4971 | 1.695E-06 | 2.034E-06 | 800 |
| | 64.0 | 5879 | 2.005E-06 | 2.406E-06 | 800 |
| | 67.0 | 7468 | 2.546E-06 | 3.056E-06 | 800 |
| | 70.0 | 4200 | 1.432E-06 | 1.718E-06 | 800 |
| | 73.0 | 5425 | 1.850E-06 | 2.220E-06 | 800 |
| | 76.0 | 5879 | 2.005E-06 | 2.406E-06 | 800 |
| | 79.0 | 7468 | 2.546E-06 | 3.056E-06 | 800 |
| | 82.0 | 9357 | 3.088E-06 | 3.706E-06 | 800 |
| | 85.0 | 8106 | 2.832E-06 | 2.494E-06 | 800 |
| | 88.0 | 8376 | 2.856E-06 | 3.427E-06 | 800 |
| | 91.0 | 10646 | 3.630E-06 | 4.356E-06 | 800 |
| | 94.0 | 7014 | 2.392E-06 | 2.870E-06 | 800 |
| | 97.0 | 14061 | 4.794E-06 | 5.753E-06 | 800 |
| | 97.1 | 14641 | 4.992E-06 | 5.990E-06 | 800 |
| | 99.1 | 12384 | 4.223E-06 | 5.067E-06 | 809 |
| | 101.1 | 20262 | 6.910E-06 | 8.298E-06 | 813 |
| | 103.0 | 15318 | 5.223E-06 | 6.267E-06 | 816 |
| | 105.0 | 35325 | 1.204E-05 | 1.445E-05 | 820 |
| | 106.9 | 48613 | 1.664E-05 | 1.997E-05 | 823 |
| | 108.8 | 70515 | 2.404E-05 | 2.885E-05 | 826 |
| | 110.7 | 78112 | 2.663E-05 | 3.196E-05 | 829 |
| | 112.6 | 96412 | 3.286E-05 | 3.699E-05 | 833 |
| | 114.5 | 97647 | 3.329E-05 | 3.995E-05 | 836 |
| | 116.4 | 202555 | 6.906E-05 | 8.287E-05 | 839 |
| | 118.3 | 1335 | 4.553E-07 | 5.463E-07 | 842 |
| | 120.2 | 2266 | 7.728E-07 | 9.273E-07 | 845 |
| | 122.1 | 5013 | 1.709E-06 | 2.051E-06 | 848 |
| | 124.0 | 4457 | 1.520E-06 | 1.824E-06 | 851 |
| | 125.8 | 2588 | 8.827E-07 | 1.059E-06 | 854 |
| E | 127.7 | 4411 | 1.504E-06 | 1.805E-06 | 857 |
| | 129.5 | 8247 | 2.812E-06 | 3.375E-06 | 859 |
| | 131.4 | 12760 | 4.351E-06 | 5.221E-06 | 862 |
| | 133.2 | 18025 | 6.146E-06 | 7.375E-06 | 865 |
| | 135.0 | 26299 | 8.967E-06 | 1.076E-05 | 867 |
| | 136.8 | 30812 | 1.051E-05 | 1.261E-05 | 869 |
| | 138.7 | 23251 | 7.441E-06 | 9.529E-06 | 872 |
| | 140.6 | 16521 | 5.633E-06 | 6.760E-06 | 874 |
| | 142.4 | 3659 | 1.248E-06 | 1.497E-06 | 876 |
| | 144.2 | 1654 | 6.323E-07 | 7.588E-07 | 878 |
| | 146.0 | 138 | 4.738E-08 | 5.686E-08 | 880 |
| | 147.8 | 29 | 9.891E-09 | 1.187E-08 | 882 |

CROSS-WIND INTEGRATED= 9.579E-03 SEC/SQ.M 1.150E-02 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 116 | 3.326E-08 | 1.331E-07 | 1200 |
| | 50.0 | 148 | 4.221E-08 | 1.688E-07 | 1200 |
| | 52.0 | 161 | 4.568E-08 | 1.830E-07 | 1200 |
| | 54.0 | 173 | 4.955E-08 | 1.982E-07 | 1200 |
| | 56.0 | 182 | 5.207E-08 | 2.083E-07 | 1200 |
| | 58.0 | 139 | 3.969E-08 | 1.587E-07 | 1200 |
| W | 60.0 | 148 | 4.221E-08 | 1.688E-07 | 1200 |
| W | 62.0 | 175 | 5.001E-08 | 2.000E-07 | 1200 |
| E | 64.0 | 193 | 5.506E-08 | 2.202E-07 | 1200 |
| E | 66.0 | 217 | 6.194E-08 | 2.476E-07 | 1200 |
| | 68.0 | 237 | 6.767E-08 | 2.707E-07 | 1200 |

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 2778 | 9.473E-07 | 1.137E-06 | 1200 |
| | 50.0 | 3539 | 1.206E-06 | 1.446E-06 | 1200 |
| | 52.0 | 3538 | 1.206E-06 | 1.445E-06 | 1200 |
| | 54.0 | 4171 | 1.422E-06 | 1.707E-06 | 1200 |
| | 56.0 | 3917 | 1.336E-06 | 1.603E-06 | 1200 |
| | 58.0 | 4424 | 1.508E-06 | 1.810E-06 | 1200 |
| W | 60.0 | 4424 | 1.508E-06 | 1.810E-06 | 1200 |
| W | 62.0 | 4930 | 1.681E-06 | 2.017E-06 | 1200 |
| E | 64.0 | 5310 | 1.811E-06 | 2.173E-06 | 1200 |
| E | 66.0 | 5810 | 1.983E-06 | 2.380E-06 | 1200 |
| | 68.0 | 6196 | 2.113E-06 | 2.535E-06 | 1200 |



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| | | | | | |
|---|---|---|---|---|---|
| | 70.0 | 307 | 8.763E-08 | 3.505E-07 | 1200 |
| | 72.0 | 208 | 5.942E-08 | 2.377E-07 | 1200 |
| | 74.0 | 263 | 7.502E-08 | 3.001E-07 | 1200 |
| | 76.0 | 361 | 1.030E-07 | 4.120E-07 | 1200 |
| | 78.0 | 369 | 1.053E-07 | 4.212E-07 | 1200 |
| | 80.0 | 331 | 9.451E-08 | 3.781E-07 | 1200 |
| | 82.0 | 372 | 1.060E-07 | 4.239E-07 | 1200 |
| | 84.0 | 459 | 1.308E-07 | 5.230E-07 | 1200 |
| | 86.0 | 513 | 1.464E-07 | 5.854E-07 | 1200 |
| | 88.0 | 599 | 1.707E-07 | 6.827E-07 | 1200 |
| | 90.0 | 563 | 1.606E-07 | 6.423E-07 | 1200 |
| | 92.0 | 557 | 1.587E-07 | 6.350E-07 | 1200 |
| | 94.0 | 791 | 2.255E-07 | 9.020E-07 | 1200 |
| W | 96.0 | 452 | 1.289E-07 | 5.157E-07 | 1200 |
| W | 98.0 | 491 | 1.399E-07 | 5.597E-07 | 1200 |
| | 100.0 | 1055 | 3.005E-07 | 1.202E-06 | 1200 |
| | 102.0 | 1239 | 3.531E-07 | 1.412E-06 | 1200 |
| | 104.0 | 1171 | 3.338E-07 | 1.335E-06 | 1200 |
| | 106.0 | 1544 | 4.398E-07 | 1.759E-06 | 1200 |
| E | 108.0 | 1610 | 4.588E-07 | 1.835E-06 | 1200 |
| | 110.0 | 2467 | 7.029E-07 | 2.812E-06 | 1200 |
| E | 112.0 | 2496 | 7.112E-07 | 2.845E-06 | 1200 |
| | 114.0 | 2872 | 8.181E-07 | 3.272E-06 | 1200 |
| E | 116.0 | 3624 | 1.032E-06 | 4.129E-06 | 1200 |
| | 118.0 | 4367 | 1.244E-06 | 4.976E-06 | 1200 |
| S | 120.0 | 3466 | 9.874E-07 | 3.949E-06 | 1200 |
| | 122.0 | 7925 | 2.257E-06 | 9.029E-06 | 1200 |
| E | 124.0 | 13531 | 3.854E-06 | 1.542E-05 | 1200 |
| E | 126.0 | 18525 | 5.276E-06 | 2.111E-05 | 1200 |
| S | 128.0 | 23501 | 6.694E-06 | 2.676E-05 | 1200 |
| W | 130.0 | 25960 | 7.394E-06 | 2.958E-05 | 1200 |
| E | 132.0 | 20136 | 5.735E-06 | 2.294E-05 | 1200 |
| E | 134.0 | 14497 | 4.129E-06 | 1.652E-05 | 1200 |
| | 136.0 | 10785 | 3.072E-06 | 1.229E-05 | 1200 |
| | 138.0 | 8171 | 2.327E-06 | 9.309E-06 | 1200 |
| S | 140.0 | 6916 | 1.970E-06 | 7.880E-06 | 1200 |
| S | 142.0 | 3542 | 1.009E-06 | 4.036E-06 | 1200 |
| S | 144.0 | 163 | 4.657E-06 | 1.863E-07 | 1200 |
| S | 146.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.244E-03 SEC/SQ.M  8.977E-03 1/M

| | | | | | |
|---|---|---|---|---|---|
| | 70.0 | 6196 | 2.113E-06 | 2.535E-06 | 1200 |
| | 72.0 | 5690 | 1.940E-06 | 2.326E-06 | 1200 |
| | 74.0 | 6703 | 2.285E-06 | 2.743E-06 | 1200 |
| | 76.0 | 7589 | 2.588E-06 | 3.105E-06 | 1200 |
| | 78.0 | 6956 | 2.372E-06 | 2.846E-06 | 1200 |
| | 80.0 | 8348 | 2.847E-06 | 3.416E-06 | 1200 |
| | 82.0 | 8222 | 2.803E-06 | 3.364E-06 | 1200 |
| | 84.0 | 8943 | 3.049E-06 | 3.659E-06 | 1200 |
| | 86.0 | 8761 | 2.987E-06 | 3.585E-06 | 1200 |
| | 88.0 | 11135 | 3.797E-06 | 4.556E-06 | 1200 |
| | 90.0 | 10222 | 3.485E-06 | 4.182E-06 | 1200 |
| | 92.0 | 8213 | 2.800E-06 | 3.360E-06 | 1200 |
| | 94.0 | 10953 | 3.735E-06 | 4.481E-06 | 1200 |
| W | 96.0 | 4255 | 1.451E-06 | 1.741E-06 | 1200 |
| W | 98.0 | 7665 | 2.613E-06 | 3.136E-06 | 1200 |
| | 100.0 | 12414 | 4.233E-06 | 5.079E-06 | 1200 |
| | 102.0 | 15824 | 5.395E-06 | 6.474E-06 | 1200 |
| | 104.0 | 15624 | 5.327E-06 | 6.393E-06 | 1200 |
| | 106.0 | 15261 | 5.203E-06 | 6.244E-06 | 1200 |
| S | 108.0 | 15215 | 5.188E-06 | 6.225E-06 | 1200 |
| | 110.0 | 24712 | 8.426E-06 | 1.011E-05 | 1200 |
| S | 112.0 | 33922 | 1.157E-05 | 1.388E-05 | 1200 |
| | 114.0 | 67851 | 2.313E-05 | 2.776E-05 | 1200 |
| S | 116.0 | 98144 | 3.346E-05 | 4.015E-05 | 1200 |
| | 118.0 | 140556 | 4.792E-05 | 5.751E-05 | 1200 |
| S | 120.0 | 186602 | 6.362E-05 | 7.635E-05 | 1200 |
| | 122.0 | 189026 | 6.445E-05 | 7.734E-05 | 1200 |
| E | 124.0 | 193873 | 6.610E-05 | 7.932E-05 | 1200 |
| E | 126.0 | 193873 | 6.610E-05 | 7.932E-05 | 1200 |
| W | 128.0 | 186602 | 6.362E-05 | 7.635E-05 | 1200 |
| W | 130.0 | 50686 | 1.735E-05 | 2.082E-05 | 1200 |
| E | 132.0 | 29075 | 9.913E-06 | 1.190E-05 | 1200 |
| E | 134.0 | 21504 | 7.434E-06 | 8.921E-06 | 1200 |
| | 136.0 | 11683 | 3.984E-06 | 4.780E-06 | 1200 |
| | 138.0 | 4171 | 1.422E-06 | 1.707E-06 | 1200 |
| S | 140.0 | 3031 | 1.034E-06 | 1.240E-06 | 1200 |
| S | 142.0 | 1056 | 3.603E-07 | 4.324E-07 | 1200 |
| S | 144.0 | 240 | 8.199E-08 | 9.839E-08 | 1200 |
| S | 146.0 | 10 | 3.474E-09 | 4.166E-09 | 1200 |

CROSSWIND INTEGRATED= 2.400E-02 SEC/SQ.M  2.880E-02 1/M

TEST U60  JUNE 4, 1968  0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
1600M ARC  SAMPLER HT 1.5M  U= 4.0 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S | 48.0 | 58 | 1.675E-08 | 6.699E-08 | 1600 |
| | 50.0 | 35 | 1.009E-08 | 4.036E-08 | 1600 |
| | 52.0 | 70 | 1.996E-08 | 7.983E-08 | 1600 |
| | 54.0 | 49 | 1.422E-08 | 5.689E-08 | 1600 |
| | 56.0 | 52 | 1.491E-08 | 5.965E-08 | 1600 |
| | 58.0 | 55 | 1.583E-08 | 6.332E-08 | 1600 |
| | 60.0 | 63 | 1.812E-08 | 7.249E-08 | 1600 |
| | 62.0 | 88 | 2.523E-08 | 1.009E-07 | 1600 |
| | 64.0 | 95 | 2.730E-08 | 1.092E-07 | 1600 |
| | 66.0 | 107 | 3.051E-08 | 1.220E-07 | 1600 |
| | 68.0 | 120 | 3.418E-08 | 1.367E-07 | 1600 |
| | 70.0 | 116 | 3.326E-08 | 1.331E-07 | 1600 |
| | 72.0 | 156 | 4.450E-08 | 1.780E-07 | 1600 |
| | 74.0 | 156 | 4.450E-08 | 1.780E-07 | 1600 |
| | 76.0 | 128 | 3.670E-08 | 1.468E-07 | 1600 |
| | 78.0 | 185 | 5.276E-08 | 2.111E-07 | 1600 |
| | 80.0 | 184 | 5.253E-08 | 2.101E-07 | 1600 |
| | 82.0 | 205 | 5.850E-08 | 2.340E-07 | 1600 |
| | 84.0 | 211 | 6.033E-08 | 2.413E-07 | 1600 |
| | 86.0 | 233 | 6.653E-08 | 2.661E-07 | 1600 |
| | 88.0 | 313 | 8.924E-08 | 3.570E-07 | 1600 |
| | 90.0 | 350 | 9.979E-08 | 3.992E-07 | 1600 |
| | 92.0 | 410 | 1.170E-07 | 4.680E-07 | 1600 |
| | 93.6 | 610 | 1.738E-07 | 6.951E-07 | 1603 |
| | 94.0 | 414 | 1.181E-07 | 4.726E-07 | 1600 |
| | 94.6 | 381 | 1.087E-07 | 4.349E-07 | 1604 |
| | 95.6 | 507 | 1.447E-07 | 5.787E-07 | 1606 |
| | 96.6 | 601 | 1.712E-07 | 6.848E-07 | 1608 |
| | 97.6 | 667 | 1.900E-07 | 7.602E-07 | 1610 |
| | 98.6 | 721 | 2.054E-07 | 8.216E-07 | 1611 |
| | 99.6 | 613 | 1.746E-07 | 6.985E-07 | 1613 |
| | 100.6 | 745 | 2.123E-07 | 8.492E-07 | 1615 |

TEST U60  JUNE 4, 1968  0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC  SAMPLER HT 1.5M  U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S | 48.0 | 1547 | 5.276E-07 | 6.332E-07 | 1600 |
| | 50.0 | 1509 | 5.147E-07 | 6.176E-07 | 1600 |
| S | 52.0 | 1319 | 4.499E-07 | 5.399E-07 | 1600 |
| S | 54.0 | 1281 | 4.370E-07 | 5.244E-07 | 1600 |
| | 56.0 | 1509 | 5.147E-07 | 6.176E-07 | 1600 |
| | 58.0 | 2117 | 7.219E-07 | 8.662E-07 | 1600 |
| | 60.0 | 1927 | 6.571E-07 | 7.885E-07 | 1600 |
| | 62.0 | 1585 | 5.406E-07 | 6.487E-07 | 1600 |
| | 64.0 | 2155 | 7.348E-07 | 8.816E-07 | 1600 |
| | 66.0 | 2269 | 7.737E-07 | 9.284E-07 | 1600 |
| | 68.0 | 2497 | 8.514E-07 | 1.022E-06 | 1600 |
| | 70.0 | 2155 | 7.348E-07 | 8.816E-07 | 1600 |
| S | 72.0 | 2610 | 8.902E-07 | 1.068E-06 | 1600 |
| | 74.0 | 2231 | 7.607E-07 | 9.129E-07 | 1600 |
| | 76.0 | 2535 | 8.643E-07 | 1.037E-06 | 1600 |
| | 78.0 | 2345 | 7.996E-07 | 9.595E-07 | 1600 |
| | 80.0 | 3535 | 1.205E-06 | 1.446E-06 | 1600 |
| | 82.0 | 2307 | 7.866E-07 | 9.439E-07 | 1600 |
| | 84.0 | 2269 | 7.737E-07 | 9.284E-07 | 1600 |
| | 86.0 | 2762 | 9.420E-07 | 1.130E-06 | 1600 |
| | 88.0 | 4041 | 1.378E-06 | 1.654E-06 | 1600 |
| | 90.0 | 3155 | 1.076E-06 | 1.291E-06 | 1600 |
| | 92.0 | 7966 | 2.716E-06 | 3.259E-06 | 1600 |
| | 93.6 | 4454 | 1.519E-06 | 1.823E-06 | 1603 |
| | 94.0 | 4041 | 1.378E-06 | 1.654E-06 | 1600 |
| | 94.6 | 3412 | 1.164E-06 | 1.396E-06 | 1604 |
| | 95.6 | 3809 | 1.299E-06 | 1.559E-06 | 1606 |
| | 96.6 | 5196 | 1.772E-06 | 2.127E-06 | 1608 |
| | 97.6 | 5347 | 1.823E-06 | 2.188E-06 | 1610 |
| | 98.6 | 3016 | 1.028E-06 | 1.234E-06 | 1611 |
| | 99.6 | 6091 | 2.077E-06 | 2.492E-06 | 1613 |
| | 100.6 | 4157 | 1.417E-06 | 1.701E-06 | 1615 |

| | | | | | |
|---|---|---|---|---|---|
| | 101.6 | 826 | 2.354E-07 | 9.416E-07 | 1617 |
| | 102.6 | 940 | 2.679E-07 | 1.072E-06 | 1618 |
| | 103.6 | 507 | 1.447E-07 | 5.787E-07 | 1620 |
| | 104.5 | 652 | 1.858E-07 | 7.430E-07 | 1622 |
| | 105.5 | 1087 | 3.099E-07 | 1.240E-06 | 1623 |
| | 106.5 | 1036 | 2.953E-07 | 1.181E-06 | 1625 |
| | 107.5 | 1187 | 3.381E-07 | 1.353E-06 | 1627 |
| | 108.5 | 1142 | 3.253E-07 | 1.301E-06 | 1628 |
| | 109.5 | 1097 | 3.125E-07 | 1.250E-06 | 1630 |
| | 110.4 | 1217 | 3.467E-07 | 1.387E-06 | 1632 |
| | 111.4 | 1424 | 4.058E-07 | 1.623E-06 | 1633 |
| | 112.4 | 1541 | 4.391E-07 | 1.757E-06 | 1635 |
| | 113.4 | 2182 | 6.215E-07 | 2.486E-06 | 1637 |
| | 114.4 | 2362 | 6.728E-07 | 2.691E-06 | 1638 |
| | 115.3 | 2590 | 7.379E-07 | 2.952E-06 | 1640 |
| | 116.3 | 3185 | 9.074E-07 | 3.630E-06 | 1641 |
| | 117.3 | 2888 | 8.226E-07 | 3.291E-06 | 1643 |
| | 118.2 | 3519 | 1.002E-06 | 4.010E-06 | 1644 |
| | 119.2 | 3850 | 1.097E-06 | 4.386E-06 | 1646 |
| | 120.2 | 4526 | 1.289E-06 | 5.157E-06 | 1647 |
| | 121.2 | 6149 | 1.751E-06 | 7.006E-06 | 1649 |
| | 122.1 | 9254 | 2.636E-06 | 1.054E-05 | 1650 |
| | 123.1 | 11937 | 3.400E-06 | 1.360E-05 | 1652 |
| | 124.1 | 12265 | 3.493E-06 | 1.397E-05 | 1653 |
| | 125.0 | 15313 | 4.361E-06 | 1.745E-05 | 1655 |
| E | 126.0 | 24284 | 6.917E-06 | 2.767E-05 | 1656 |
| E | 126.9 | 42978 | 1.224E-05 | 4.896E-05 | 1658 |
| E | 127.8 | 61312 | 1.746E-05 | 6.985E-05 | 1659 |
| E | 128.8 | 72733 | 2.072E-05 | 8.286E-05 | 1660 |
| E | 129.7 | 72433 | 2.063E-05 | 8.252E-05 | 1662 |
| | 130.6 | 73277 | 2.087E-05 | 8.348E-05 | 1663 |
| | 131.5 | 50880 | 1.449E-05 | 5.797E-05 | 1664 |
| | 132.5 | 38858 | 1.107E-05 | 4.427E-05 | 1665 |
| | 133.5 | 24510 | 6.981E-06 | 2.792E-05 | 1667 |
| | 134.4 | 26154 | 7.449E-06 | 2.980E-05 | 1668 |
| | 135.4 | 18874 | 5.376E-06 | 2.150E-05 | 1669 |
| | 136.4 | 15676 | 4.465E-06 | 1.786E-05 | 1670 |
| | 137.3 | 9677 | 2.756E-06 | 1.103E-05 | 1672 |
| | 138.3 | 14369 | 4.093E-06 | 1.637E-05 | 1673 |
| | 139.3 | 13311 | 3.791E-06 | 1.517E-05 | 1674 |
| | 140.2 | 11620 | 3.367E-06 | 1.347E-05 | 1675 |
| | 141.2 | 8493 | 2.419E-06 | 9.677E-06 | 1676 |
| | 142.2 | 3606 | 1.027E-06 | 4.109E-06 | 1677 |
| | 143.1 | 1211 | 3.450E-07 | 1.380E-06 | 1678 |
| | 144.1 | 0 | 0. | 0. | 1679 |

CROSSWIND INTEGRATED= 5.376E-03 SEC/SQ.M  2.150E-02 1/M

| | | | | | |
|---|---|---|---|---|---|
| | 101.6 | 5198 | 1.772E-06 | 2.127E-06 | 1617 |
| | 102.6 | 7430 | 2.534E-06 | 3.040E-06 | 1618 |
| | 103.6 | 4752 | 1.620E-06 | 1.944E-06 | 1620 |
| | 104.5 | 6389 | 2.178E-06 | 2.614E-06 | 1622 |
| | 105.5 | 5942 | 2.026E-06 | 2.431E-06 | 1623 |
| | 106.5 | 6389 | 2.178E-06 | 2.614E-06 | 1625 |
| | 107.5 | 5793 | 1.975E-06 | 2.371E-06 | 1627 |
| | 108.5 | 8323 | 2.838E-06 | 3.406E-06 | 1628 |
| | 109.5 | 8918 | 3.041E-06 | 3.649E-06 | 1630 |
| | 110.4 | 9365 | 3.193E-06 | 3.832E-06 | 1632 |
| | 111.4 | 8621 | 2.939E-06 | 3.527E-06 | 1633 |
| | 112.4 | 9067 | 3.092E-06 | 3.710E-06 | 1635 |
| | 113.4 | 7579 | 2.584E-06 | 3.101E-06 | 1637 |
| | 114.4 | 12391 | 4.225E-06 | 5.070E-06 | 1638 |
| | 115.3 | 6389 | 2.178E-06 | 2.614E-06 | 1640 |
| | 116.3 | 10704 | 3.650E-06 | 4.380E-06 | 1641 |
| | 117.3 | 7579 | 2.584E-06 | 3.101E-06 | 1643 |
| | 118.2 | 8773 | 2.990E-06 | 3.588E-06 | 1644 |
| | 119.2 | 11002 | 3.751E-06 | 4.501E-06 | 1646 |
| | 120.2 | 21815 | 7.438E-06 | 8.926E-06 | 1647 |
| | 121.2 | 32912 | 1.122E-05 | 1.347E-05 | 1649 |
| | 122.1 | 38638 | 1.317E-05 | 1.581E-05 | 1650 |
| | 123.1 | 71561 | 2.440E-05 | 2.928E-05 | 1652 |
| | 124.1 | 81103 | 2.765E-05 | 3.318E-05 | 1653 |
| | 125.0 | 62018 | 2.114E-05 | 2.537E-05 | 1655 |
| E | 126.0 | 73946 | 2.521E-05 | 3.025E-05 | 1656 |
| E | 126.9 | 81103 | 2.765E-05 | 3.318E-05 | 1658 |
| E | 127.8 | 85875 | 2.928E-05 | 3.513E-05 | 1659 |
| E | 128.8 | 81103 | 2.765E-05 | 3.318E-05 | 1660 |
| E | 129.7 | 76332 | 2.603E-05 | 3.123E-05 | 1662 |
| | 130.6 | 71561 | 2.440E-05 | 2.928E-05 | 1663 |
| | 131.5 | 23608 | 8.049E-06 | 9.659E-06 | 1664 |
| | 132.5 | 8323 | 2.838E-06 | 3.406E-06 | 1665 |
| | 133.5 | 5793 | 1.975E-06 | 2.371E-06 | 1667 |
| | 134.4 | 3710 | 1.265E-06 | 1.518E-06 | 1668 |
| | 135.4 | 5347 | 1.823E-06 | 2.188E-06 | 1669 |
| | 136.4 | 6686 | 2.280E-06 | 2.736E-06 | 1670 |
| | 137.3 | 6091 | 2.077E-06 | 2.492E-06 | 1672 |
| | 138.3 | 2718 | 9.269E-07 | 1.112E-06 | 1673 |
| | 139.3 | 2718 | 9.269E-07 | 1.112E-06 | 1674 |
| | 140.2 | 2073 | 7.070E-07 | 8.484E-07 | 1675 |
| | 141.2 | 883 | 3.011E-07 | 3.613E-07 | 1676 |
| | 142.2 | 317 | 1.081E-07 | 1.300E-07 | 1677 |
| | 143.1 | 30 | 1.047E-08 | 1.256E-08 | 1678 |
| | 144.1 | 10 | 3.463E-09 | 4.156E-09 | 1679 |
| | 145.1 | 58 | 2.005E-08 | 2.406E-08 | 1680 |

CROSSWIND INTEGRATED= 1.074E-02 SEC/SQ.M  1.289E-02 1/M

TEST 060  JUNE 4, 1968  0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 20M
2200M ARC  SAMPLER HT 1.5M  U= 4.0 M/SEC AT 20M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 4 | 48.0 | 7 | 2.145E-09 | 8.579E-09 | 2200 |
| 9 | 50.0 | 0 | 0. | 0. | 2200 |
| 8 | 52.0 | 0 | 0. | 0. | 2200 |
| 9 | 54.0 | 0 | 0. | 0. | 2200 |
| 8 | 56.0 | 3 | 1.072E-09 | 4.290E-09 | 2200 |
| 0 | 58.0 | 0 | 0. | 0. | 2200 |
| | 60.0 | 30 | 8.699E-09 | 3.479E-08 | 2200 |
| | 62.0 | 16 | 4.766E-09 | 1.907E-08 | 2200 |
| | 64.0 | 29 | 8.341E-09 | 3.336E-08 | 2200 |
| | 66.0 | 20 | 5.958E-09 | 2.383E-08 | 2200 |
| 4 | 68.0 | 20 | 5.720E-09 | 2.288E-08 | 2200 |
| 4 | 70.0 | 29 | 8.460E-09 | 3.384E-08 | 2200 |
| 1 | 72.0 | 17 | 5.005E-09 | 2.002E-08 | 2200 |
| 5 | 74.0 | 19 | 5.481E-09 | 2.193E-08 | 2200 |
| 1 | 76.0 | 0 | 0. | 0. | 2200 |
| | 78.0 | 76 | 2.193E-08 | 8.770E-08 | 2200 |
| | 80.0 | 1 | 4.766E-10 | 1.907E-09 | 2200 |
| 8 | 82.0 | 0 | 0. | 0. | 2200 |
| 7 | 84.0 | 14 | 4.171E-09 | 1.668E-08 | 2200 |
| | 86.0 | 25 | 7.150E-09 | 2.860E-08 | 2200 |
| 1 | 88.0 | 0 | 0. | 0. | 2200 |
| 4 | 90.0 | 82 | 2.336E-08 | 9.342E-08 | 2200 |
| | 92.0 | 97 | 2.776E-08 | 1.111E-07 | 2200 |
| 4 | 94.0 | 101 | 2.884E-08 | 1.153E-07 | 2200 |
| 1 | 96.0 | 1 | 4.766E-10 | 1.907E-09 | 2200 |
| 1 | 98.0 | 0 | 0. | 0. | 2200 |

TEST 060  JUNE 4, 1968  0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC  SAMPLER HT 1.5M  U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 8 | 48.0 | 302 | 1.030E-07 | 1.236E-07 | 2200 |
| 9 | 50.0 | 239 | 8.168E-08 | 9.801E-08 | 2200 |
| 8 | 52.0 | 292 | 9.983E-08 | 1.198E-07 | 2200 |
| 9 | 54.0 | 195 | 6.673E-08 | 8.007E-08 | 2200 |
| 8 | 56.0 | 386 | 1.317E-07 | 1.581E-07 | 2200 |
| 0 | 58.0 | 0 | 0. | 0. | 2200 |
| | 60.0 | 592 | 1.340E-07 | 1.608E-07 | 2200 |
| | 62.0 | 491 | 1.676E-07 | 2.011E-07 | 2200 |
| | 64.0 | 496 | 1.692E-07 | 2.031E-07 | 2200 |
| | 66.0 | 1282 | 4.372E-07 | 5.246E-07 | 2200 |
| 4 | 68.0 | 943 | 2.877E-07 | 3.453E-07 | 2200 |
| 4 | 70.0 | 812 | 2.771E-07 | 3.325E-07 | 2200 |
| 4 | 72.0 | 411 | 1.404E-07 | 1.685E-07 | 2200 |
| 5 | 74.0 | 943 | 2.877E-07 | 3.453E-07 | 2200 |
| 1 | 76.0 | 0 | 5.359E-11 | 6.431E-11 | 2200 |
| | 78.0 | 1063 | 3.625E-07 | 4.350E-07 | 2200 |
| | 80.0 | 0 | 1.064E-10 | 1.281E-10 | 2200 |
| 8 | 82.0 | 0 | 3.310E-10 | 3.972E-10 | 2200 |
| 8 | 84.0 | 812 | 2.771E-07 | 3.325E-07 | 2200 |
| | 86.0 | 609 | 2.077E-07 | 2.492E-07 | 2200 |
| 1 | 88.0 | 0 | 0. | 0. | 2200 |
| 4 | 90.0 | 688 | 2.349E-07 | 2.819E-07 | 2200 |
| 3 | 92.0 | 261 | 9.568E-08 | 1.151E-07 | 2200 |
| 4 | 94.0 | 1122 | 3.829E-07 | 4.594E-07 | 2200 |
| 1 | 96.0 | 1 | 4.271E-10 | 5.125E-10 | 2200 |
| 1 | 98.0 | 0 | 1.064E-10 | 1.281E-10 | 2200 |



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| | | | | | |
|---|---|---|---|---|---|
| | 100.0 | 311 | 8.865E-08 | 3.546E-07 | 2200 |
| 5 | 102.0 | 147 | 4.206E-08 | 1.683E-07 | 2200 |
| | 104.0 | 356 | 1.021E-07 | 4.085E-07 | 2200 |
| 1 | 106.0 | 0 | 0. | 0. | 2200 |
| | 108.0 | 674 | 1.921E-07 | 7.683E-07 | 2200 |
| | 110.0 | 893 | 2.544E-07 | 1.018E-06 | 2200 |
| 0 | 112.0 | 0 | 2.383E-10 | 9.533E-10 | 2200 |
| 6 | 114.0 | 645 | 1.840E-07 | 7.359E-07 | 2200 |
| | 116.0 | 2603 | 7.414E-07 | 2.966E-06 | 2200 |
| 1 | 118.0 | 0 | 0. | 0. | 2200 |
| 0 | 120.0 | 179 | 5.124E-08 | 2.050E-07 | 2200 |
| 0 | 122.0 | 830 | 2.364E-07 | 9.456E-07 | 2200 |
| 1 | 124.0 | 23 | 6.673E-09 | 2.669E-08 | 2200 |
| | 126.0 | 13212 | 3.763E-06 | 1.505E-05 | 2200 |
| 8 | 128.0 | 12526 | 3.568E-06 | 1.427E-05 | 2200 |
| 1 | 130.0 | 36 | 1.084E-08 | 4.337E-08 | 2200 |
| 4 | 132.0 | 36815 | 1.049E-05 | 4.194E-05 | 2200 |
| 1 | 134.0 | 3228 | 9.197E-07 | 3.679E-06 | 2200 |
| 7 | 136.0 | 6096 | 1.736E-06 | 6.946E-06 | 2200 |
| 0 | 138.0 | 927 | 2.642E-07 | 1.057E-06 | 2200 |
| 4 | 140.0 | 5092 | 1.450E-06 | 5.802E-06 | 2200 |
| 1 | 142.0 | 0 | 0. | 0. | 2200 |
| | 144.0 | 7 | 2.145E-09 | 8.579E-09 | 2200 |
| | 146.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.864E-03 SEC/SQ.M 7.455E-03 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 58.0 | 0 | 0. | 0. | 3200 |
| 4 | 60.0 | 1 | 4.766E-10 | 1.907E-09 | 3200 |
| 5 | 62.0 | 0 | 0. | 0. | 3200 |
| | 64.0 | 5 | 1.668E-09 | 6.673E-09 | 3200 |
| | 66.0 | 5 | 1.668E-09 | 6.673E-09 | 3200 |
| | 68.0 | 6 | 1.787E-09 | 7.150E-09 | 3200 |
| 6 | 70.0 | 1 | 4.766E-10 | 1.907E-09 | 3200 |
| | 72.7 | 25 | 7.317E-09 | 2.927E-08 | 3168 |
| | 73.7 | 35 | 1.016E-08 | 4.065E-08 | 3170 |
| | 74.7 | 42 | 1.219E-08 | 4.878E-08 | 3172 |
| | 75.7 | 34 | 9.756E-09 | 3.902E-08 | 3173 |
| | 76.8 | 51 | 1.463E-08 | 5.853E-08 | 3175 |
| | 77.8 | 25 | 7.317E-09 | 2.927E-08 | 3177 |
| | 78.8 | 47 | 1.341E-08 | 5.366E-08 | 3179 |
| | 79.8 | 42 | 1.219E-08 | 4.878E-08 | 3180 |
| | 80.8 | 17 | 4.878E-09 | 1.951E-08 | 3182 |
| | 81.8 | 22 | 6.504E-09 | 2.602E-08 | 3184 |
| | 82.8 | 29 | 8.536E-09 | 3.415E-08 | 3185 |
| | 83.8 | 21 | 6.097E-09 | 2.439E-08 | 3187 |
| | 84.8 | 54 | 1.545E-08 | 6.179E-08 | 3189 |
| | 85.8 | 24 | 6.910E-09 | 2.764E-08 | 3191 |
| | 86.8 | 59 | 1.707E-08 | 6.829E-08 | 3192 |
| | 87.8 | 47 | 1.341E-08 | 5.366E-08 | 3194 |
| | 88.8 | 61 | 1.748E-08 | 6.992E-08 | 3196 |
| | 89.8 | 74 | 2.114E-08 | 8.455E-08 | 3198 |
| | 90.8 | 82 | 2.358E-08 | 9.431E-08 | 3199 |
| | 91.8 | 74 | 2.114E-08 | 8.455E-08 | 3201 |
| | 92.8 | 108 | 3.069E-08 | 1.236E-07 | 3203 |
| | 93.8 | 131 | 3.740E-08 | 1.496E-07 | 3205 |
| | 94.8 | 129 | 3.699E-08 | 1.480E-07 | 3206 |
| | 95.8 | 131 | 3.740E-08 | 1.496E-07 | 3208 |
| | 96.8 | 176 | 5.040E-08 | 2.016E-07 | 3210 |
| | 97.8 | 169 | 4.837E-08 | 1.935E-07 | 3212 |
| | 98.8 | 232 | 6.626E-08 | 2.650E-07 | 3213 |
| | 99.8 | 229 | 6.544E-08 | 2.618E-07 | 3215 |
| | 100.8 | 172 | 4.919E-08 | 1.967E-07 | 3217 |
| | 101.8 | 101 | 2.886E-08 | 1.154E-07 | 3218 |
| | 102.8 | 211 | 6.016E-08 | 2.406E-07 | 3220 |
| | 103.8 | 391 | 1.114E-07 | 4.455E-07 | 3222 |
| | 104.8 | 313 | 8.943E-08 | 3.577E-07 | 3224 |
| | 105.8 | 560 | 1.598E-07 | 6.390E-07 | 3225 |
| | 106.8 | 472 | 1.345E-07 | 5.382E-07 | 3227 |
| | 107.8 | 792 | 2.256E-07 | 9.024E-07 | 3229 |

| | | | | | |
|---|---|---|---|---|---|
| | 100.0 | 1576 | 5.376E-07 | 6.451E-07 | 2200 |
| 5 | 102.0 | 2300 | 7.842E-07 | 9.410E-07 | 2200 |
| | 104.0 | 1517 | 5.174E-07 | 6.209E-07 | 2200 |
| 1 | 106.0 | 0 | 2.989E-10 | 3.587E-10 | 2200 |
| | 108.0 | 3414 | 1.164E-06 | 1.397E-06 | 2200 |
| | 110.0 | 3793 | 1.293E-06 | 1.552E-06 | 2200 |
| 0 | 112.0 | 0 | 2.349E-10 | 2.819E-10 | 2200 |
| 6 | 114.0 | 7209 | 2.458E-06 | 2.950E-06 | 2200 |
| | 116.0 | 3793 | 1.293E-06 | 1.552E-06 | 2200 |
| 1 | 118.0 | 2 | 8.114E-10 | 9.737E-10 | 2200 |
| 0 | 120.0 | 7929 | 2.703E-06 | 3.244E-06 | 2200 |
| 0 | 122.0 | 11516 | 3.927E-06 | 4.712E-06 | 2200 |
| 1 | 124.0 | 3 | 1.132E-09 | 1.358E-09 | 2200 |
| 3 | 126.0 | 25175 | 8.583E-06 | 1.030E-05 | 2200 |
| 8 | 128.0 | 20872 | 7.116E-06 | 8.540E-06 | 2200 |
| 1 | 130.0 | 2 | 7.794E-10 | 9.353E-10 | 2200 |
| 4 | 132.0 | 6311 | 2.152E-06 | 2.582E-06 | 2200 |
| 0 | 134.0 | 2431 | 8.290E-07 | 9.948E-07 | 2200 |
| 7 | 136.0 | 2102 | 7.169E-07 | 8.603E-07 | 2200 |
| 0 | 138.0 | 162 | 5.552E-08 | 6.662E-08 | 2200 |
| 4 | 140.0 | 175 | 6.000E-08 | 7.200E-08 | 2200 |
| 1 | 142.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 2.929E-03 SEC/SQ.M 3.515E-03 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 8 | 48.0 | 129 | 4.409E-08 | 5.291E-08 | 3200 |
| | 50.0 | 160 | 5.477E-08 | 6.572E-08 | 3200 |
| | 52.0 | 113 | 3.876E-08 | 4.651E-08 | 3200 |
| 7 | 54.0 | 135 | 4.623E-08 | 5.548E-08 | 3200 |
| 6 | 56.0 | 98 | 3.342E-08 | 4.010E-08 | 3200 |
| | 58.0 | 129 | 4.409E-08 | 5.291E-08 | 3200 |
| | 60.0 | 132 | 4.516E-08 | 5.419E-08 | 3200 |
| 5 | 62.0 | 166 | 5.691E-08 | 6.829E-08 | 3200 |
| | 64.0 | 213 | 7.292E-08 | 8.750E-08 | 3200 |
| | 66.0 | 163 | 5.584E-08 | 6.701E-08 | 3200 |
| | 68.0 | 213 | 7.292E-08 | 8.750E-08 | 3200 |
| 6 | 70.0 | 132 | 4.516E-08 | 5.419E-08 | 3200 |
| | 72.7 | 246 | 8.413E-08 | 1.010E-07 | 3168 |
| | 73.7 | 449 | 1.533E-07 | 1.840E-07 | 3170 |
| | 74.7 | 524 | 1.788E-07 | 2.146E-07 | 3172 |
| | 75.7 | 460 | 1.570E-07 | 1.884E-07 | 3173 |
| | 76.8 | 503 | 1.715E-07 | 2.059E-07 | 3175 |
| | 77.8 | 535 | 1.825E-07 | 2.190E-07 | 3177 |
| | 78.8 | 449 | 1.533E-07 | 1.840E-07 | 3179 |
| | 79.8 | 449 | 1.533E-07 | 1.840E-07 | 3180 |
| | 80.8 | 567 | 1.934E-07 | 2.321E-07 | 3182 |
| | 81.8 | 32 | 1.093E-08 | 1.311E-08 | 3184 |
| | 82.8 | 33 | 1.129E-08 | 1.355E-08 | 3185 |
| | 83.8 | 22 | 7.648E-09 | 9.178E-09 | 3187 |
| | 84.8 | 577 | 1.970E-07 | 2.364E-07 | 3189 |
| | 85.8 | 513 | 1.752E-07 | 2.102E-07 | 3191 |
| | 86.8 | 535 | 1.825E-07 | 2.190E-07 | 3192 |
| | 87.8 | 684 | 2.335E-07 | 2.801E-07 | 3194 |
| | 88.8 | 951 | 3.245E-07 | 3.894E-07 | 3196 |
| | 89.8 | 909 | 3.099E-07 | 3.719E-07 | 3198 |
| | 90.8 | 941 | 3.209E-07 | 3.850E-07 | 3199 |
| 5 | 91.8 | 898 | 3.063E-07 | 3.676E-07 | 3201 |
| | 92.8 | 748 | 2.553E-07 | 3.064E-07 | 3203 |
| | 93.8 | 569 | 1.941E-07 | 2.329E-07 | 3205 |
| | 94.8 | 954 | 3.256E-07 | 3.907E-07 | 3206 |
| | 95.8 | 954 | 3.256E-07 | 3.907E-07 | 3208 |
| | 96.8 | 932 | 3.180E-07 | 3.815E-07 | 3210 |
| | 97.8 | 1201 | 4.097E-07 | 4.917E-07 | 3212 |
| F | 98.8 | 1089 | 3.715E-07 | 4.458E-07 | 3213 |
| | 99.8 | 1470 | 5.015E-07 | 6.018E-07 | 3215 |
| | 100.8 | 1470 | 5.015E-07 | 6.018E-07 | 3217 |
| | 101.8 | 1112 | 3.791E-07 | 4.550E-07 | 3218 |
| | 102.8 | 1403 | 4.786E-07 | 5.743E-07 | 3220 |
| | 103.8 | 1695 | 5.780E-07 | 6.936E-07 | 3222 |
| | 104.8 | 1605 | 5.474E-07 | 6.569E-07 | 3224 |
| | 105.8 | 1156 | 3.944E-07 | 4.733E-07 | 3225 |
| | 106.8 | 2211 | 7.539E-07 | 9.047E-07 | 3227 |
| | 107.8 | 2413 | 8.227E-07 | 9.873E-07 | 3229 |



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| | | | | | |
|---|---|---|---|---|---|
| | 108.8 | 1808 | 5.150E-07 | 2.060E-06 | 3230 |
| | 109.7 | 2107 | 6.004E-07 | 2.402E-06 | 3232 |
| | 110.7 | 886 | 2.524E-07 | 1.010E-06 | 3233 |
| | 111.7 | 1625 | 4.630E-07 | 1.852E-06 | 3235 |
| | 112.7 | 1147 | 3.268E-07 | 1.307E-06 | 3237 |
| E | 113.7 | 1141 | 3.252E-07 | 1.301E-06 | 3238 |
| E | 114.6 | 1184 | 3.374E-07 | 1.350E-06 | 3240 |
| 4 | 115.6 | 1235 | 3.520E-07 | 1.408E-06 | 3241 |
| M | 116.6 | 1746 | 4.975E-07 | 1.990E-06 | 3243 |
| 8 | 117.6 | 1195 | 3.406E-07 | 1.363E-06 | 3245 |
| M | 118.6 | 1341 | 3.821E-07 | 1.528E-06 | 3246 |
| | 119.5 | 2865 | 8.162E-07 | 3.265E-06 | 3248 |
| | 120.5 | 2974 | 8.471E-07 | 3.388E-06 | 3249 |
| | 121.5 | 2934 | 8.357E-07 | 3.343E-06 | 3251 |
| | 122.4 | 2808 | 8.000E-07 | 3.200E-06 | 3252 |
| | 123.4 | 4636 | 1.321E-06 | 5.283E-06 | 3253 |
| | 124.4 | 941 | 2.683E-07 | 1.073E-06 | 3255 |
| | 125.4 | 2359 | 6.719E-07 | 2.688E-06 | 3256 |
| | 126.3 | 4452 | 1.268E-06 | 5.073E-06 | 3258 |
| | 127.3 | 7976 | 2.272E-06 | 9.087E-06 | 3259 |
| | 128.3 | 6519 | 1.857E-06 | 7.427E-06 | 3261 |
| | 129.3 | 7194 | 2.049E-06 | 8.196E-06 | 3262 |
| | 130.3 | 14271 | 4.065E-06 | 1.626E-05 | 3263 |
| | 131.2 | 18870 | 5.375E-06 | 2.150E-05 | 3264 |
| | 132.2 | 23278 | 6.630E-06 | 2.652E-05 | 3266 |
| | 133.2 | 21838 | 6.220E-06 | 2.488E-05 | 3267 |
| | 134.2 | 7087 | 2.019E-06 | 8.074E-06 | 3268 |
| | 135.2 | 9616 | 2.739E-06 | 1.096E-05 | 3270 |
| | 136.2 | 1632 | 4.650E-07 | 1.860E-06 | 3271 |
| | 137.1 | 727 | 2.073E-07 | 8.292E-07 | 3272 |
| | 138.1 | 104 | 2.967E-08 | 1.187E-07 | 3273 |
| | 139.1 | 67 | 1.910E-08 | 7.642E-08 | 3274 |
| | 140.1 | 7 | 2.032E-09 | 8.130E-09 | 3276 |
| | 141.1 | 0 | 0. | 0. | 3277 |

CROSSWIND INTEGRATED= 2.607E-03 SEC/SQ.M  1.043E-02 1/M

| | | | | | |
|---|---|---|---|---|---|
| | 108.8 | 2951 | 1.006E-06 | 1.208E-06 | 3230 |
| | 109.7 | 3287 | 1.121E-06 | 1.345E-06 | 3232 |
| 2 | 110.7 | 3355 | 1.144E-06 | 1.373E-06 | 3233 |
| | 111.7 | 3624 | 1.236E-06 | 1.483E-06 | 3235 |
| | 112.7 | 4499 | 1.534E-06 | 1.841E-06 | 3237 |
| O | 113.7 | 3893 | 1.328E-06 | 1.593E-06 | 3238 |
| 8 | 114.6 | 3355 | 1.144E-06 | 1.373E-06 | 3240 |
| | 115.6 | 3691 | 1.259E-06 | 1.510E-06 | 3241 |
| | 116.6 | 3826 | 1.305E-06 | 1.566E-06 | 3243 |
| H | 117.6 | 2682 | 9.145E-07 | 1.097E-06 | 3245 |
| | 118.6 | 1942 | 6.621E-07 | 7.946E-07 | 3246 |
| | 119.5 | 2480 | 8.457E-07 | 1.015E-06 | 3248 |
| | 120.5 | 3759 | 1.282E-06 | 1.538E-06 | 3249 |
| | 121.5 | 4095 | 1.396E-06 | 1.676E-06 | 3251 |
| | 122.4 | 3287 | 1.121E-06 | 1.345E-06 | 3252 |
| | 123.4 | 3227 | 1.100E-06 | 1.320E-06 | 3253 |
| | 124.4 | 4413 | 1.505E-06 | 1.806E-06 | 3255 |
| | 125.4 | 2903 | 9.899E-07 | 1.188E-06 | 3256 |
| | 126.3 | 7111 | 2.425E-06 | 2.909E-06 | 3258 |
| | 127.3 | 4563 | 1.556E-06 | 1.867E-06 | 3259 |
| | 128.3 | 4090 | 1.395E-06 | 1.673E-06 | 3261 |
| | 129.3 | 7758 | 2.645E-06 | 3.174E-06 | 3262 |
| | 130.3 | 12289 | 4.190E-06 | 5.028E-06 | 3263 |
| | 131.2 | 13908 | 4.742E-06 | 5.690E-06 | 3264 |
| | 132.2 | 6463 | 2.204E-06 | 2.645E-06 | 3266 |
| | 133.2 | 1201 | 4.097E-07 | 4.917E-07 | 3267 |
| | 134.2 | 360 | 1.229E-07 | 1.475E-07 | 3268 |
| | 135.2 | 151 | 5.179E-08 | 6.215E-08 | 3270 |
| | 136.2 | 31 | 1.072E-08 | 1.286E-08 | 3271 |
| | 137.1 | 6 | 2.229E-09 | 2.675E-09 | 3272 |

CROSSWIND INTEGRATED= 2.919E-03 SEC/SQ.M  3.503E-03 1/M

TEST U60  JUNE 4, 1968  0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC  SAMPLER HT 1.5M  U= 4.0 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 133 | 3.813E-08 | 1.525E-07 | 4630 |
| 4 | 84.0 | 134 | 3.837E-08 | 1.535E-07 | 4620 |
| E | 86.0 | 106 | 3.027E-08 | 1.211E-07 | 4610 |
| | 88.0 | 81 | 2.312E-08 | 9.247E-08 | 4610 |
| | 90.0 | 156 | 4.457E-08 | 1.783E-07 | 4610 |
| | 92.0 | 20 | 5.958E-09 | 2.383E-08 | 4620 |
| | 94.0 | 123 | 3.527E-08 | 1.411E-07 | 4620 |
| | 96.0 | 146 | 4.171E-08 | 1.668E-07 | 4620 |
| | 98.0 | 193 | 5.517E-08 | 2.207E-07 | 4660 |
| 5 | 100.0 | 32 | 9.175E-09 | 3.670E-08 | 4690 |
| | 102.0 | 837 | 2.387E-07 | 9.547E-07 | 4710 |
| | 104.0 | 196 | 5.589E-08 | 2.235E-07 | 4770 |
| | 106.0 | 1598 | 4.552E-07 | 1.821E-06 | 4810 |
| | 108.0 | 202 | 5.767E-08 | 2.307E-07 | 4870 |
| | 110.0 | 435 | 1.242E-07 | 4.967E-07 | 4920 |
| E | 112.0 | 309 | 8.818E-08 | 3.527E-07 | 4990 |
| | 114.0 | 184 | 5.243E-08 | 2.097E-07 | 5080 |
| | 116.0 | 1073 | 3.058E-07 | 1.223E-06 | 5020 |
| | 118.0 | 1100 | 3.134E-07 | 1.254E-06 | 5100 |
| | 120.0 | 288 | 8.210E-08 | 3.284E-07 | 5130 |
| | 122.0 | 71 | 2.038E-08 | 8.151E-08 | 4830 |
| E | 124.0 | 209 | 5.958E-08 | 2.383E-07 | 4660 |
| 5 | 126.0 | 535 | 1.524E-07 | 6.096E-07 | 4770 |
| 6 | 128.0 | 1209 | 3.444E-07 | 1.377E-06 | 4900 |
| E | 130.0 | 711 | 2.024E-07 | 8.103E-07 | 4970 |
| | 132.0 | 269 | 7.666E-08 | 3.074E-07 | 4980 |
| 5 | 134.0 | 64 | 2.407E-08 | 9.626E-08 | 4990 |
| | 136.0 | 0 | 0. | 0. | 5000 |

CROSSWIND INTEGRATED= 5.069E-04 SEC/SQ.M  2.028E-03 1/M

TEST U60  JUNE 4, 1968  0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC  SAMPLER HT 1.5M  U= 1.2 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 957 | 3.265E-07 | 3.918E-07 | 4630 |
| 4 | 84.0 | 997 | 3.399E-07 | 4.079E-07 | 4620 |
| O | 86.0 | 376 | 1.282E-07 | 1.539E-07 | 4610 |
| S | 88.0 | 523 | 1.785E-07 | 2.142E-07 | 4610 |
| | 90.0 | 661 | 2.256E-07 | 2.707E-07 | 4610 |
| | 92.0 | 661 | 2.256E-07 | 2.707E-07 | 4620 |
| | 94.0 | 582 | 1.987E-07 | 2.384E-07 | 4620 |
| | 96.0 | 661 | 2.256E-07 | 2.707E-07 | 4620 |
| | 98.0 | 681 | 2.323E-07 | 2.788E-07 | 4660 |
| 5 | 100.0 | 1450 | 4.944E-07 | 5.936E-07 | 4690 |
| | 102.0 | 1391 | 4.745E-07 | 5.694E-07 | 4710 |
| | 104.0 | 1371 | 4.677E-07 | 5.613E-07 | 4770 |
| | 106.0 | 1414 | 4.822E-07 | 5.786E-07 | 4810 |
| | 108.0 | 1352 | 4.610E-07 | 5.532E-07 | 4870 |
| | 110.0 | 1016 | 3.467E-07 | 4.160E-07 | 4920 |
| E | 112.0 | 997 | 3.399E-07 | 4.079E-07 | 4990 |
| | 114.0 | 977 | 3.332E-07 | 3.999E-07 | 5080 |
| | 116.0 | 937 | 3.196E-07 | 3.837E-07 | 5020 |
| | 118.0 | 1115 | 3.803E-07 | 4.564E-07 | 5100 |
| | 120.0 | 319 | 1.090E-07 | 1.308E-07 | 5130 |
| | 122.0 | 240 | 8.210E-08 | 9.852E-08 | 4830 |
| E | 124.0 | 319 | 1.090E-07 | 1.308E-07 | 4660 |
| 5 | 126.0 | 438 | 1.494E-07 | 1.792E-07 | 4770 |
| 6 | 128.0 | 563 | 1.920E-07 | 2.304E-07 | 4900 |
| 9 | 130.0 | 273 | 9.331E-08 | 1.120E-07 | 4970 |
| 8 | 132.0 | 129 | 4.399E-08 | 5.278E-08 | 4980 |

CROSSWIND INTEGRATED= 1.166E-03 SEC/SQ.M  1.399E-03 1/M



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TEST U60 JUNE 4, 1968 0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 76.0 | 369 | 1.053E-07 | 4.213E-07 | 6280 |
| 4 78.0 | 424 | 1.208E-07 | 4.833E-07 | 6300 |
| 4 80.0 | 461 | 1.316E-07 | 5.262E-07 | 6400 |
| 4 82.0 | 725 | 2.067E-07 | 8.270E-07 | 6490 |
| 5 84.0 | 259 | 7.388E-08 | 2.955E-07 | 6500 |
| 5 86.0 | 194 | 5.553E-08 | 2.221E-07 | 6500 |
| 5 88.0 | 296 | 8.448E-08 | 3.379E-07 | 6480 |
| 90.0 | 794 | 2.264E-07 | 9.056E-07 | 6500 |
| E 92.0 | 753 | 2.145E-07 | 8.579E-07 | 6490 |
| E 94.0 | 753 | 2.145E-07 | 8.579E-07 | 6500 |
| 4 96.0 | 751 | 2.140E-07 | 8.560E-07 | 6510 |
| 5 98.0 | 532 | 1.517E-07 | 6.068E-07 | 6520 |
| 4 100.0 | 862 | 2.456E-07 | 9.823E-07 | 6560 |
| 5 102.0 | 824 | 2.347E-07 | 9.390E-07 | 6610 |
| 4 104.0 | 1128 | 3.214E-07 | 1.285E-06 | 6650 |
| 4 106.0 | 557 | 1.588E-07 | 6.354E-07 | 6720 |
| 4 108.0 | 835 | 2.378E-07 | 9.514E-07 | 6800 |
| E 110.0 | 1255 | 3.575E-07 | 1.430E-06 | 7000 |
| E 112.0 | 1673 | 4.766E-07 | 1.907E-06 | 7300 |
| 114.0 | 2747 | 7.824E-07 | 3.130E-06 | 7210 |
| 116.0 | 2143 | 6.105E-07 | 2.442E-06 | 7220 |
| 118.0 | 1748 | 4.980E-07 | 1.992E-06 | 7190 |
| 120.0 | 930 | 2.649E-07 | 1.060E-06 | 7150 |
| 122.0 | 1880 | 5.356E-07 | 2.142E-06 | 7120 |
| E 124.0 | 1255 | 3.575E-07 | 1.430E-06 | 7100 |
| E 126.0 | 836 | 2.383E-07 | 9.533E-07 | 7100 |
| S 128.0 | 541 | 1.543E-07 | 6.172E-07 | 7100 |
| S 130.0 | 87 | 2.479E-08 | 9.914E-08 | 7130 |
| O 132.0 | 0 | 0. | 0. | 7150 |
| N 134.0 | 0 | 0. | 0. | 7200 |

CROSSWIND INTEGRATED= 1.761E-03 SEC/SQ.M 7.043E-03 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 74.0 | 1006 | 3.430E-07 | 4.110E-07 | 6280 |
| 4 76.0 | 572 | 1.953E-07 | 2.344E-07 | 6300 |
| 4 78.0 | 879 | 2.999E-07 | 3.599E-07 | 6400 |
| 4 82.0 | 1069 | 3.646E-07 | 4.375E-07 | 6490 |
| 5 84.0 | 942 | 3.215E-07 | 3.858E-07 | 6500 |
| 5 86.0 | 974 | 3.325E-07 | 3.987E-07 | 6500 |
| 5 88.0 | 942 | 3.215E-07 | 3.858E-07 | 6480 |
| 90.0 | 1136 | 3.862E-07 | 4.634E-07 | 6500 |
| E 92.0 | 1132 | 3.862E-07 | 4.634E-07 | 6490 |
| 9 94.0 | 1164 | 3.970E-07 | 4.763E-07 | 6500 |
| 4 96.0 | 847 | 2.891E-07 | 3.469E-07 | 6510 |
| 5 98.0 | 572 | 1.953E-07 | 2.344E-07 | 6520 |
| 4 100.0 | 810 | 2.762E-07 | 3.314E-07 | 6560 |
| 5 102.0 | 911 | 3.107E-07 | 3.728E-07 | 6610 |
| 4 104.0 | 784 | 2.676E-07 | 3.211E-07 | 6650 |
| 4 106.0 | 610 | 2.082E-07 | 2.499E-07 | 6720 |
| 4 108.0 | 620 | 2.115E-07 | 2.538E-07 | 6800 |
| W 110.0 | 658 | 2.244E-07 | 2.693E-07 | 7000 |
| 6 112.0 | 526 | 1.796E-07 | 2.155E-07 | 7300 |
| 114.0 | 506 | 1.729E-07 | 2.074E-07 | 7210 |
| 116.0 | 289 | 9.886E-08 | 1.186E-07 | 7220 |
| 118.0 | 110 | 3.766E-08 | 4.519E-08 | 7190 |
| 120.0 | 74 | 2.555E-08 | 3.066E-08 | 7150 |
| 122.0 | 388 | 1.325E-07 | 1.590E-07 | 7120 |
| T 124.0 | 120 | 4.102E-08 | 4.922E-08 | 7100 |
| O 126.0 | 138 | 4.730E-08 | 5.676E-08 | 7100 |

CROSSWIND INTEGRATED= 1.400E-03 SEC/SQ.M 1.680E-03 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 4.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 121.0 | 2 | 5.958E-10 | 2.383E-09 | 12800 |
| 122.0 | 0 | 0. | 0. | 12800 |
| 123.0 | 8 | 2.383E-09 | 9.533E-09 | 12800 |
| 6 124.0 | 18 | 5.243E-09 | 2.097E-08 | 12800 |
| 9 125.0 | 8 | 2.502E-09 | 1.001E-08 | 12800 |
| 8 126.0 | 9 | 2.622E-09 | 1.049E-08 | 12800 |
| 7 127.0 | 5 | 1.668E-09 | 6.673E-09 | 12800 |
| 6 128.0 | 11 | 3.217E-09 | 1.287E-08 | 12800 |
| 8 129.0 | 8 | 2.383E-09 | 9.533E-09 | 12800 |
| 8 130.0 | 5 | 1.430E-09 | 5.720E-09 | 12800 |
| O 131.0 | 11 | 3.336E-09 | 1.335E-08 | 12800 |
| S 132.0 | 28 | 8.222E-09 | 3.289E-08 | 12800 |
| Z 133.0 | 12 | 3.456E-09 | 1.382E-08 | 12800 |
| 4 134.0 | 15 | 4.290E-09 | 1.716E-08 | 12800 |
| 5 135.0 | 24 | 6.911E-09 | 2.764E-08 | 12800 |
| 8 136.0 | 8 | 2.383E-09 | 9.533E-09 | 12800 |
| 4 137.0 | 18 | 5.362E-09 | 2.145E-08 | 12800 |
| 7 138.0 | 0 | 0. | 0. | 12800 |
| S 139.0 | 14 | 4.171E-09 | 1.668E-08 | 12800 |
| X 140.0 | 0 | 0. | 0. | 12800 |
| O 141.0 | 3 | 9.533E-10 | 3.813E-09 | 12800 |
| 142.0 | 6 | 1.907E-09 | 7.626E-09 | 12800 |
| S 143.0 | 3 | 9.533E-10 | 3.813E-09 | 12800 |
| 6 144.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 1.430E-05 SEC/SQ.M 5.718E-05 1/M

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 1.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 6 124.0 | 15 | 5.338E-09 | 6.406E-09 | 12800 |
| 9 125.0 | 21 | 7.260E-09 | 8.712E-09 | 12800 |
| 8 126.0 | 37 | 1.271E-08 | 1.525E-08 | 12800 |
| 7 127.0 | 16 | 5.552E-09 | 6.662E-09 | 12800 |
| 6 128.0 | 9 | 3.203E-09 | 3.844E-09 | 12800 |
| 8 129.0 | 20 | 6.940E-09 | 8.328E-09 | 12800 |
| T 130.0 | 8 | 2.909E-09 | 3.587E-09 | 12800 |
| O 131.0 | 10 | 3.416E-09 | 4.100E-09 | 12800 |
| S 132.0 | 4 | 1.601E-09 | 1.922E-09 | 12800 |
| 9 133.0 | 6 | 2.135E-09 | 2.562E-09 | 12800 |

CROSSWIND INTEGRATED= 1.142E-05 SEC/SQ.M 1.371E-05 1/M



U60

1202739

SAMPLING 800M TO 1200M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.
NOT ENOUGH TRACER SAMPLED ON 500M ARC TO CONFIDENTLY INTERPOLATE QUESTIONABLE DATA POINTS.
THIRTY MIN OF ZINC SULFIDE DISPERSAL. 15 MIN OF FLOURESCEIN DISPERSAL.

TEST U61 JUNE 6, 1968 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.1 | 0 | 0. | 0. | 809 |
| 101.1 | 12 | 3.700E-09 | 3.145E-08 | 813 |
| 103.0 | 173 | 4.995E-08 | 4.246E-07 | 816 |
| 105.0 | 1984 | 5.723E-07 | 4.864E-06 | 820 |
| S 106.9 | 3611 | 1.042E-06 | 8.854E-06 | 823 |
| 108.8 | 18629 | 5.373E-06 | 4.567E-05 | 826 |
| 110.7 | 36148 | 1.043E-05 | 8.862E-05 | 829 |
| 112.6 | 43499 | 1.255E-05 | 1.066E-04 | 833 |
| 114.5 | 43439 | 1.253E-05 | 1.065E-04 | 836 |
| 116.4 | 22749 | 6.562E-06 | 5.577E-05 | 839 |
| I 118.3 | 3472 | 1.002E-06 | 8.513E-06 | 842 |
| I 120.2 | 560 | 1.616E-07 | 1.373E-06 | 845 |
| I 122.1 | 188 | 5.427E-08 | 4.613E-07 | 848 |
| I 124.0 | 100 | 2.898E-08 | 2.464E-07 | 851 |
| I 125.8 | 0 | 0. | 0. | 854 |

CROSSWIND INTEGRATED= 1.391E-03 SEC/SQ.M 1.182E-02 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.1 | 0 | 0. | 0. | 809 |
| 101.1 | 97 | 6.651E-08 | 3.563E-07 | 813 |
| 103.0 | 136 | 9.622E-08 | 5.033E-07 | 816 |
| 105.0 | 8338 | 5.864E-06 | 3.049E-05 | 820 |
| S 106.9 | 11949 | 8.405E-06 | 4.370E-05 | 823 |
| 108.8 | 48826 | 3.434E-05 | 1.785E-04 | 826 |
| 110.7 | 45570 | 3.205E-05 | 1.666E-04 | 829 |
| 112.6 | 30377 | 2.136E-05 | 1.111E-04 | 833 |
| 114.5 | 11949 | 8.403E-06 | 4.370E-05 | 836 |
| 116.4 | 2547 | 1.791E-06 | 9.315E-06 | 839 |
| I 118.3 | 64 | 4.509E-08 | 2.344E-07 | 842 |
| I 120.2 | 10 | 7.304E-09 | 3.798E-08 | 845 |
| I 122.1 | 143 | 1.013E-07 | 5.265E-07 | 848 |
| I 124.0 | 0 | 0. | 0. | 851 |

CROSSWIND INTEGRATED= 3.096E-03 SEC/SQ.M 1.610E-02 1/M

TEST U61 JUNE 6, 1968 0106 TO 0135 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 0. | 0. | 1200 |
| 102.0 | 6 | 1.743E-09 | 1.481E-08 | 1200 |
| 104.0 | 177 | 5.131E-08 | 4.361E-07 | 1200 |
| 106.0 | 1899 | 5.477E-07 | 4.656E-06 | 1200 |
| 108.0 | 7669 | 2.212E-06 | 1.880E-05 | 1200 |
| 110.0 | 14910 | 4.301E-06 | 3.656E-05 | 1200 |
| 112.0 | 21304 | 6.145E-06 | 5.223E-05 | 1200 |
| 114.0 | 19173 | 5.530E-06 | 4.701E-05 | 1200 |
| 116.0 | 9215 | 2.658E-06 | 2.259E-05 | 1200 |
| 118.0 | 2353 | 6.788E-07 | 5.770E-06 | 1200 |
| 120.0 | 457 | 1.319E-07 | 1.121E-06 | 1200 |
| 122.0 | 55 | 1.588E-08 | 1.349E-07 | 1200 |

CROSSWIND INTEGRATED= 9.330E-04 SEC/SQ.M 7.930E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 0. | 0. | 1200 |
| 102.0 | 68 | 4.842E-08 | 2.518E-07 | 1200 |
| 104.0 | 859 | 6.042E-07 | 3.142E-06 | 1200 |
| 106.0 | 4686 | 3.295E-06 | 1.714E-05 | 1200 |
| 108.0 | 12784 | 8.991E-06 | 4.675E-05 | 1200 |
| 110.0 | 12054 | 8.477E-06 | 4.408E-05 | 1200 |
| 112.0 | 7487 | 5.266E-06 | 2.738E-05 | 1200 |
| 114.0 | 1669 | 1.174E-06 | 6.105E-06 | 1200 |
| 116.0 | 309 | 2.178E-07 | 1.133E-06 | 1200 |
| 118.0 | 149 | 1.049E-07 | 5.450E-07 | 1200 |
| 120.0 | 32 | 2.298E-08 | 1.195E-07 | 1200 |
| 122.0 | 10 | 7.207E-09 | 3.748E-08 | 1200 |
| 124.0 | 5 | 3.773E-09 | 1.962E-08 | 1200 |
| 126.0 | 11 | 8.352E-09 | 4.343E-08 | 1200 |
| 128.0 | 8 | 6.063E-09 | 3.153E-08 | 1200 |
| 130.0 | 2 | 1.993E-09 | 1.036E-08 | 1200 |
| 132.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.102E-03 SEC/SQ.M 6.149E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.6 | 0 | 0. | 0. | 1615 |
| 101.6 | 0 | 0. | 0. | 1617 |
| 102.6 | 10 | 3.019E-09 | 2.566E-08 | 1618 |
| 103.6 | 64 | 1.862E-08 | 1.583E-07 | 1620 |
| 104.5 | 369 | 1.067E-07 | 9.068E-07 | 1622 |
| 105.5 | 750 | 2.164E-07 | 1.839E-06 | 1623 |
| 106.5 | 2179 | 6.285E-07 | 5.342E-06 | 1625 |
| 107.5 | 5029 | 1.451E-06 | 1.233E-05 | 1627 |
| 108.5 | 7828 | 2.258E-06 | 1.919E-05 | 1628 |
| 109.5 | 9045 | 2.609E-06 | 2.218E-05 | 1630 |
| 110.4 | 11858 | 3.420E-06 | 2.907E-05 | 1632 |
| 111.4 | 15462 | 4.460E-06 | 3.791E-05 | 1633 |
| 112.4 | 15305 | 4.415E-06 | 3.752E-05 | 1635 |
| 113.4 | 12870 | 3.712E-06 | 3.155E-05 | 1637 |
| 114.4 | 9447 | 2.725E-06 | 2.316E-06 | 1638 |
| 115.3 | 4900 | 1.414E-06 | 1.201E-05 | 1640 |
| 116.3 | 2259 | 6.517E-07 | 5.539E-06 | 1641 |
| 117.3 | 668 | 1.927E-07 | 1.638E-06 | 1643 |
| 118.2 | 580 | 1.676E-07 | 1.424E-06 | 1644 |
| 119.2 | 129 | 3.724E-08 | 3.165E-07 | 1646 |
| 120.2 | 0 | 0. | 0. | 1647 |
| 121.2 | 0 | 0. | 0. | 1649 |

CROSSWIND INTEGRATED= 7.970E-04 SEC/SQ.M 6.774E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.6 | 0 | 0. | 0. | 1615 |
| 101.6 | 17 | 1.213E-08 | 6.305E-08 | 1617 |
| 102.6 | 257 | 1.811E-07 | 9.415E-07 | 1618 |
| 103.6 | 243 | 1.711E-07 | 8.897E-07 | 1620 |
| 104.5 | 1169 | 8.222E-07 | 4.276E-06 | 1622 |
| 105.5 | 3510 | 2.468E-06 | 1.284E-05 | 1623 |
| 106.5 | 4898 | 3.445E-06 | 1.791E-05 | 1625 |
| 107.5 | 8321 | 5.852E-06 | 3.043E-05 | 1627 |
| 108.5 | 10256 | 7.217E-06 | 3.750E-05 | 1628 |
| 109.5 | 10851 | 7.631E-06 | 3.968E-05 | 1630 |
| 110.4 | 8321 | 5.852E-06 | 3.043E-05 | 1632 |
| 111.4 | 9660 | 6.794E-06 | 3.533E-05 | 1633 |
| 112.4 | 5345 | 3.759E-06 | 1.955E-05 | 1635 |
| 113.4 | 1216 | 8.555E-07 | 4.448E-06 | 1537 |
| 114.4 | 673 | 4.734E-07 | 2.462E-06 | 1638 |
| 115.3 | 139 | 9.800E-08 | 5.096E-07 | 1640 |
| 116.3 | 243 | 1.711E-07 | 8.897E-07 | 1641 |
| 117.3 | 118 | 8.305E-08 | 4.319E-07 | 1643 |
| 118.2 | 113 | 7.973E-08 | 4.146E-07 | 1644 |
| 119.2 | 0 | 0. | 0. | 1646 |
| 120.2 | 11 | 8.139E-09 | 4.232E-08 | 1647 |
| 121.2 | 0 | 0. | 0. | 1649 |

CROSSWIND INTEGRATED= 1.286E-03 SEC/SQ.M 6.687E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 2200 |
| 104.0 | 126 | 3.661E-08 | 3.112E-07 | 2200 |
| 106.0 | 323 | 9.334E-08 | 7.934E-07 | 2200 |
| 108.0 | 7264 | 2.095E-06 | 1.781E-05 | 2200 |
| 110.0 | 10721 | 3.092E-06 | 2.629E-05 | 2200 |
| 112.0 | 7653 | 2.208E-06 | 1.876E-05 | 2200 |
| 114.0 | 3595 | 1.037E-06 | 8.814E-06 | 2200 |
| 116.0 | 718 | 2.071E-07 | 1.760E-06 | 2200 |
| 118.0 | 109 | 3.159E-08 | 2.685E-07 | 2200 |
| 4 120.0 | 9 | 2.623E-09 | 2.230E-08 | 2200 |
| 122.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 6.761E-04 SEC/SQ.M 5.747E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 2200 |
| 104.0 | 373 | 2.625E-07 | 1.365E-06 | 2200 |
| 106.0 | 112 | 7.936E-08 | 4.127E-07 | 2200 |
| 108.0 | 6903 | 4.855E-06 | 2.524E-05 | 2200 |
| 110.0 | 4404 | 3.097E-06 | 1.611E-05 | 2200 |
| 112.0 | 748 | 5.261E-07 | 2.736E-06 | 2200 |
| 114.0 | 215 | 1.515E-07 | 7.876E-07 | 2200 |
| 116.0 | 13 | 9.409E-09 | 4.924E-08 | 2200 |
| 118.0 | 4 | 2.929E-09 | 1.523E-08 | 2200 |
| 3 120.0 | 1 | 1.013E-09 | 5.267E-09 | 2200 |
| 5 122.0 | 6 | 4.404E-09 | 2.290E-08 | 2200 |
| 124.0 | 0 | 3.523E-10 | 1.832E-09 | 2200 |

CROSSWIND INTEGRATED= 6.903E-04 SEC/SQ.M 3.590E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 101.8 | 0 | 0. | 0. | 3218 |
| 102.8 | 15 | 4.367E-09 | 3.712E-08 | 3220 |
| 103.8 | 112 | 3.244E-08 | 2.757E-07 | 3222 |
| 104.8 | 285 | 8.235E-08 | 7.000E-07 | 3224 |
| 105.8 | 907 | 2.617E-07 | 2.224E-06 | 3225 |
| 106.8 | 2275 | 6.563E-07 | 5.578E-06 | 3227 |
| 107.8 | 3047 | 8.790E-07 | 7.471E-06 | 3229 |
| 108.8 | 3501 | 1.010E-06 | 8.585E-06 | 3230 |
| 109.7 | 3329 | 9.604E-07 | 8.163E-06 | 3232 |
| 110.7 | 2437 | 7.031E-07 | 5.976E-06 | 3233 |
| W 111.7 | 2834 | 8.175E-07 | 6.949E-06 | 3235 |
| W 112.7 | 2172 | 6.266E-07 | 5.327E-06 | 3237 |
| W 113.7 | 866 | 2.498E-07 | 2.124E-06 | 3238 |
| 114.6 | 261 | 7.548E-08 | 6.416E-07 | 3240 |
| 115.6 | 104 | 3.026E-08 | 2.572E-07 | 3241 |
| 116.6 | 0 | 0. | 0. | 3243 |

CROSSWIND INTEGRATED= 3.539E-04 SEC/SQ.M 3.008E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 101.8 | 0 | 0. | 0. | 3218 |
| 102.8 | 68 | 4.785E-08 | 2.488E-07 | 3220 |
| 103.8 | 197 | 1.387E-07 | 7.215E-07 | 3222 |
| 104.8 | 529 | 3.724E-07 | 1.936E-06 | 3224 |
| 105.8 | 1049 | 7.382E-07 | 3.839E-06 | 3225 |
| 106.8 | 2014 | 1.417E-06 | 7.366E-06 | 3227 |
| 107.8 | 1677 | 1.180E-06 | 6.136E-06 | 3229 |
| 108.8 | 1453 | 1.022E-06 | 5.315E-06 | 3230 |
| 109.7 | 825 | 5.805E-07 | 3.018E-06 | 3232 |
| 110.7 | 758 | 5.331E-07 | 2.772E-06 | 3233 |
| W 111.7 | 439 | 3.091E-07 | 1.607E-06 | 3235 |
| W 112.7 | 165 | 1.162E-07 | 6.043E-07 | 3237 |
| W 113.7 | 58 | 4.109E-08 | 2.137E-07 | 3238 |
| 114.6 | 0 | 0. | 0. | 3240 |

CROSSWIND INTEGRATED= 3.614E-04 SEC/SQ.M 1.879E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 0. | 0. | 4690 |
| 102.0 | 0 | 2.186E-10 | 1.858E-09 | 4710 |
| S 104.0 | 54 | 1.574E-08 | 1.338E-07 | 4770 |
| 106.0 | 233 | 6.743E-08 | 5.732E-07 | 4810 |
| P 108.0 | 98 | 2.853E-08 | 2.425E-07 | 4870 |
| 110.0 | 1240 | 3.578E-07 | 3.042E-06 | 4920 |
| X 112.0 | 107 | 3.115E-08 | 2.648E-07 | 4990 |
| 114.0 | 35 | 1.038E-08 | 8.826E-08 | 5080 |
| 116.0 | 4 | 1.421E-09 | 1.208E-08 | 5020 |
| 118.0 | 0 | 1.093E-10 | 9.290E-10 | 5100 |
| 120.0 | 0 | 2.166E-10 | 1.858E-09 | 5130 |
| 122.0 | 0 | 0. | 0. | 4830 |

CROSSWIND INTEGRATED= 8.786E-05 SEC/SQ.M 7.468E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 6610 |
| 104.0 | 7 | 2.077E-09 | 1.765E-08 | 6650 |
| 106.0 | 70 | 2.033E-08 | 1.728E-07 | 6720 |
| E 108.0 | 408 | 1.178E-07 | 1.001E-06 | 6800 |
| 110.0 | 505 | 1.459E-07 | 1.240E-06 | 7000 |
| 112.0 | 144 | 4.164E-08 | 3.540E-07 | 7300 |
| 114.0 | 73 | 2.131E-08 | 1.812E-07 | 7210 |
| 116.0 | 10 | 2.951E-09 | 2.508E-08 | 7220 |
| 118.0 | 0 | 0. | 0. | 7190 |
| 120.0 | 0 | 0. | 0. | 7150 |

CROSSWIND INTEGRATED= 8.559E-05 SEC/SQ.M 7.275E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 8.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 0 | 0. | 0. | 12800 |
| 107.0 | 7 | 2.186E-09 | 1.858E-08 | 12800 |
| 108.0 | 22 | 6.448E-09 | 5.481E-08 | 12800 |
| 109.0 | 34 | 9.946E-09 | 8.454E-08 | 12800 |
| E 110.0 | 59 | 1.727E-08 | 1.468E-07 | 12800 |
| 111.0 | 103 | 2.973E-08 | 2.527E-07 | 12800 |
| 112.0 | 141 | 4.088E-08 | 3.474E-07 | 12800 |
| S 113.0 | 115 | 3.323E-08 | 2.824E-07 | 12800 |
| 114.0 | 36 | 1.049E-08 | 8.918E-08 | 12800 |
| E 115.0 | 18 | 5.246E-09 | 4.459E-08 | 12800 |
| 116.0 | 10 | 2.951E-09 | 2.508E-08 | 12800 |
| 117.0 | 3 | 9.837E-10 | 8.361E-09 | 12800 |

CROSSWIND INTEGRATED= 3.560E-05 SEC/SQ.M 3.026E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 2.202E-10 | 1.145E-09 | 4620 |
| 98.0 | 0 | 1.762E-10 | 9.161E-10 | 4660 |
| 100.0 | 0 | 1.321E-10 | 6.871E-10 | 4690 |
| 102.0 | 0 | 5.065E-10 | 2.634E-09 | 4710 |
| 106.0 | 525 | 3.694E-07 | 1.921E-06 | 4810 |
| S 104.0 | 102 | 7.208E-08 | 3.748E-07 | 4770 |
| P 108.0 | 7 | 5.232E-09 | 2.721E-08 | 4870 |
| 110.0 | 367 | 2.584E-07 | 1.344E-06 | 4920 |
| X 112.0 | 1 | 1.321E-09 | 6.871E-09 | 4990 |
| 114.0 | 3 | 2.312E-09 | 1.202E-08 | 5060 |
| 116.0 | 1 | 8.588E-10 | 4.466E-09 | 5020 |
| 118.0 | 0 | 1.962E-10 | 1.031E-09 | 5100 |
| 120.0 | 0 | 3.083E-10 | 1.603E-09 | 5130 |
| 122.0 | 0 | 3.744E-10 | 1.947E-09 | 4830 |
| 124.0 | 0 | 0. | 0. | 4660 |

CROSSWIND INTEGRATED= 6.387E-05 SEC/SQ.M 4.361E-04 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 4 | 2.973E-09 | 1.546E-08 | 6560 |
| 102.0 | 0 | 6.827E-10 | 3.550E-09 | 6610 |
| 104.0 | 14 | 1.020E-08 | 5.302E-08 | 6650 |
| 106.0 | 187 | 1.315E-07 | 6.840E-07 | 6720 |
| E 108.0 | 431 | 3.033E-07 | 1.577E-06 | 6800 |
| 110.0 | 431 | 3.033E-07 | 1.577E-06 | 7000 |
| 112.0 | 165 | 1.161E-07 | 6.036E-07 | 7300 |
| 114.0 | 20 | 1.438E-08 | 7.478E-08 | 7210 |
| 116.0 | 1 | 1.057E-09 | 5.497E-09 | 7220 |
| 118.0 | 0 | 0. | 0. | 7190 |

CROSSWIND INTEGRATED= 2.136E-04 SEC/SQ.M 1.111E-03 1/M

TEST U61 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 105.0 | 0 | 0. | 0. | 12800 |
| 106.0 | 0 | 3.744E-10 | 1.947E-09 | 12800 |
| 107.0 | 22 | 1.608E-08 | 6.359E-08 | 12800 |
| 108.0 | 27 | 1.960E-08 | 1.019E-07 | 12800 |
| 109.0 | 98 | 6.959E-08 | 3.619E-07 | 12800 |
| 110.0 | 92 | 6.518E-08 | 3.390E-07 | 12800 |
| 111.0 | 69 | 4.867E-08 | 2.531E-07 | 12800 |
| 112.0 | 62 | 4.404E-08 | 2.290E-07 | 12800 |
| 113.0 | 117 | 8.280E-08 | 4.306E-07 | 12800 |
| 114.0 | 0 | 0. | 0. | 12800 |
| 115.0 | 1 | 1.365E-09 | 7.100E-09 | 12800 |
| 116.0 | 1 | 1.365E-09 | 7.100E-09 | 12800 |
| 117.0 | 0 | 6.606E-11 | 3.435E-10 | 12800 |
| 118.0 | 0 | 6.386E-10 | 3.321E-09 | 12800 |
| 119.0 | 0 | 0. | 0. | 12800 |
| 120.0 | 0 | 1.321E-10 | 6.871E-10 | 12800 |

CROSSWIND INTEGRATED= 7.817E-05 SEC/SQ.M 4.065E-04 1/M

SAMPLING 400M TO 1200M,NO TOWER SAMPLING. ALL ARCS EMBRACED CROSSWIND EXTENT OF TRACER.
ZINC SULFIDE DISPERSED FOR 30 MIN. DISPERSAL DIFFICULTIES RESTRICTED FLUORESCEIN DISPERSAL TO 19.5 MIN.
LIGHT RAIN FELL AFTER TRACER RELEASE ENDED BUT BEFORE ALL FILTERS COLLECTED; NO OBVIOUS EFFECT ON TRACERS.

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.0 | 0 | 0. | 0. | 800 |
| 94.0 | 4 | 1.298E-09 | 1.091E-08 | 800 |
| 97.0 | 614 | 1.873E-07 | 1.573E-06 | 800 |
| 97.1 | 589 | 1.797E-07 | 1.510E-06 | 806 |
| 99.1 | 2608 | 7.951E-07 | 6.679E-06 | 809 |
| 101.1 | 8291 | 2.527E-06 | 2.123E-05 | 813 |
| 103.0 | 20688 | 6.306E-06 | 5.297E-05 | 816 |
| 105.0 | 30325 | 9.243E-06 | 7.764E-05 | 820 |
| 106.9 | 35455 | 1.081E-05 | 9.077E-05 | 823 |
| 108.8 | 34650 | 1.056E-05 | 8.873E-05 | 826 |
| 110.7 | 27034 | 8.240E-06 | 6.921E-05 | 829 |
| 112.6 | 18073 | 5.509E-06 | 4.627E-05 | 833 |
| 114.5 | 18291 | 5.575E-06 | 4.683E-05 | 836 |
| 116.4 | 9434 | 2.875E-06 | 2.415E-05 | 839 |
| 118.3 | 2765 | 8.428E-07 | 7.080E-06 | 842 |
| 120.2 | 1173 | 3.576E-07 | 3.004E-06 | 845 |
| 122.1 | 0 | 0. | 0. | 848 |
| 124.0 | 0 | 0. | 0. | 851 |

CROSSWIND INTEGRATED= 1.763E-03 SEC/SQ.M 1.481E-02 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.0 | 0 | 0. | 0. | 800 |
| 94.0 | 14 | 8.226E-09 | 4.442E-08 | 800 |
| 97.0 | 949 | 5.312E-07 | 2.669E-06 | 800 |
| 97.1 | 1313 | 7.350E-07 | 3.969E-06 | 806 |
| 99.1 | 8337 | 4.665E-06 | 2.519E-05 | 809 |
| 101.0 | 30074 | 1.683E-05 | 9.088E-05 | 813 |
| 103.0 | 59677 | 3.340E-05 | 1.803E-04 | 816 |
| 105.0 | 58591 | 3.279E-05 | 1.771E-04 | 820 |
| 107.0 | 45568 | 2.550E-05 | 1.377E-04 | 823 |
| 109.0 | 35801 | 2.003E-05 | 1.082E-04 | 826 |
| 111.0 | 20296 | 1.136E-05 | 6.133E-05 | 830 |
| 113.0 | 6080 | 3.403E-06 | 1.837E-05 | 833 |
| 114.5 | 3104 | 1.737E-06 | 9.381E-06 | 836 |
| 116.4 | 568 | 3.181E-07 | 1.718E-06 | 839 |
| 118.3 | 131 | 7.356E-08 | 3.972E-07 | 842 |
| 120.2 | 10 | 5.812E-09 | 3.139E-08 | 845 |
| 122.0 | 13 | 7.817E-09 | 4.221E-08 | 848 |
| 124.0 | 1 | 1.002E-09 | 5.412E-09 | 851 |
| 125.9 | 0 | 0. | 0. | 854 |
| 127.7 | 0 | 0. | 0. | 857 |
| 129.5 | 6 | 3.808E-09 | 2.056E-08 | 859 |

CROSSWIND INTEGRATED= 4.287E-03 SEC/SQ.M 2.315E-02 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 0 | 0. | 0. | 1200 |
| 96.0 | 13 | 4.217E-09 | 3.542E-08 | 1200 |
| 98.0 | 191 | 5.843E-08 | 4.908E-07 | 1200 |
| 100.0 | 1338 | 4.080E-07 | 3.427E-06 | 1200 |
| 102.0 | 3866 | 1.178E-06 | 9.898E-06 | 1200 |
| 104.0 | 9197 | 2.803E-06 | 2.355E-05 | 1200 |
| 106.0 | 14043 | 4.280E-06 | 3.595E-05 | 1200 |
| 108.0 | 17302 | 5.273E-06 | 4.430E-05 | 1200 |
| 110.0 | 12061 | 3.676E-06 | 3.088E-05 | 1200 |
| 112.0 | 10443 | 3.183E-06 | 2.674E-05 | 1200 |
| 114.0 | 8286 | 2.525E-06 | 2.121E-05 | 1200 |
| E 116.0 | 4303 | 1.312E-06 | 1.102E-05 | 1200 |
| E 118.0 | 1450 | 4.422E-07 | 3.714E-06 | 1200 |
| 120.0 | 297 | 9.056E-08 | 7.607E-07 | 1200 |
| 122.0 | 10 | 3.213E-09 | 2.699E-08 | 1200 |
| 124.0 | 12 | 3.815E-09 | 3.205E-08 | 1200 |
| 126.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.057E-03 SEC/SQ.M 8.882E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 1200 |
| 94.0 | 0 | 0. | 0. | 1200 |
| 96.0 | 72 | 4.082E-08 | 2.204E-07 | 1200 |
| 98.0 | 295 | 1.651E-07 | 8.916E-07 | 1200 |
| 100.0 | 2239 | 1.253E-06 | 6.768E-06 | 1200 |
| 102.0 | 5478 | 3.066E-06 | 1.656E-05 | 1200 |
| 104.0 | 9862 | 5.519E-06 | 2.980E-05 | 1200 |
| 106.0 | 9862 | 5.519E-06 | 2.980E-05 | 1200 |
| 108.0 | 8949 | 5.008E-06 | 2.704E-05 | 1200 |
| 110.0 | 5113 | 2.861E-06 | 1.545E-05 | 1200 |
| 112.0 | 2125 | 1.190E-06 | 6.423E-06 | 1200 |
| 114.0 | 733 | 4.102E-07 | 2.215E-06 | 1200 |
| E 116.0 | 12 | 6.916E-09 | 3.735E-08 | 1200 |
| E 118.0 | 1 | 9.783E-10 | 5.283E-09 | 1200 |
| 120.0 | 15 | 8.771E-09 | 4.737E-08 | 1200 |
| 122.0 | 2 | 1.282E-09 | 6.923E-09 | 1200 |
| 124.0 | 1 | 6.747E-10 | 3.643E-09 | 1200 |
| 126.0 | 1 | 1.045E-09 | 5.647E-09 | 1200 |
| 128.0 | 0 | 4.366E-10 | 2.368E-09 | 1200 |
| 130.0 | 0 | 1.687E-10 | 9.109E-10 | 1200 |

CROSSWIND INTEGRATED= 1.049E-03 SEC/SQ.M 5.667E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.6 | 0 | 0. | 0. | 1600 |
| 95.6 | 0 | 0. | 0. | 1606 |
| 96.6 | 15 | 4.565E-09 | 3.852E-08 | 1608 |
| 97.6 | 23 | 7.133E-09 | 5.991E-08 | 1610 |
| 98.6 | 23 | 7.133E-09 | 5.991E-08 | 1611 |
| 99.6 | 115 | 3.515E-08 | 2.953E-07 | 1613 |
| 100.6 | 182 | 5.553E-08 | 4.665E-07 | 1615 |
| 101.6 | 944 | 2.879E-07 | 2.418E-06 | 1617 |
| 102.6 | 1447 | 4.412E-07 | 3.706E-06 | 1618 |
| 103.6 | 2285 | 6.965E-07 | 5.850E-06 | 1620 |

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 95.6 | 0 | 0. | 0. | 1600 |
| 97.6 | 0 | 0. | 0. | 1608 |
| 97.6 | 9 | 5.287E-09 | 2.855E-08 | 1610 |
| 98.6 | 8 | 4.891E-09 | 2.641E-08 | 1611 |
| 99.6 | 44 | 2.498E-08 | 1.349E-07 | 1613 |
| 100.6 | 798 | 4.470E-07 | 2.414E-06 | 1615 |
| 101.6 | 3517 | 1.968E-06 | 1.063E-05 | 1617 |
| 102.6 | 2178 | 1.219E-06 | 6.582E-06 | 1618 |
| 103.6 | 4162 | 2.329E-06 | 1.258E-05 | 1620 |



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| | | | | |
|---|---|---|---|---|
| 104.5 | 3159 | 9.629E-07 | 8.088E-06 | 1622 |
| 105.5 | 5828 | 1.777E-06 | 1.492E-05 | 1623 |
| 106.5 | 5171 | 1.576E-06 | 1.324E-05 | 1625 |
| 107.5 | 5324 | 1.623E-06 | 1.363E-05 | 1627 |
| 108.5 | 5696 | 1.736E-06 | 1.458E-05 | 1628 |
| 109.5 | 9613 | 2.930E-06 | 2.461E-05 | 1630 |
| 110.4 | 3772 | 1.150E-06 | 9.659E-06 | 1632 |
| 111.4 | 5245 | 1.599E-06 | 1.343E-05 | 1633 |
| 112.4 | 5444 | 1.659E-06 | 1.394E-05 | 1635 |
| 113.4 | 4525 | 1.379E-06 | 1.158E-05 | 1637 |
| S 114.4 | 2356 | 7.184E-07 | 6.034E-06 | 1638 |
| 115.3 | 2348 | 7.158E-07 | 6.013E-06 | 1640 |
| 116.3 | 1454 | 4.432E-07 | 3.723E-06 | 1641 |
| 117.3 | 1425 | 4.346E-07 | 3.651E-06 | 1643 |
| 118.2 | 252 | 7.693E-08 | 6.462E-07 | 1644 |
| 119.2 | 167 | 5.095E-08 | 4.280E-07 | 1646 |
| 120.2 | 30 | 9.171E-09 | 7.703E-08 | 1647 |
| 121.2 | 0 | 0. | 0. | 1649 |
| 122.1 | 0 | 0. | 0. | 1650 |

CROSSWIND INTEGRATED= 5.687E-04 SEC/SQ.M 4.777E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| ● 96.0 | 1 | 3.423E-10 | 2.875E-09 | 2200 |
| 98.0 | 4 | 1.369E-09 | 1.150E-08 | 2200 |
| 100.0 | 57 | 1.757E-08 | 1.476E-07 | 2200 |
| 102.0 | 510 | 1.555E-07 | 1.306E-06 | 2200 |
| 104.0 | 2029 | 6.185E-07 | 5.195E-06 | 2200 |
| 106.0 | 4086 | 1.246E-06 | 1.046E-05 | 2200 |
| E 108.0 | 5613 | 1.711E-06 | 1.437E-05 | 2200 |
| 110.0 | 5646 | 1.721E-06 | 1.446E-05 | 2200 |
| 112.0 | 3882 | 1.183E-06 | 9.939E-06 | 2200 |
| 114.0 | 3071 | 9.362E-07 | 7.864E-06 | 2200 |
| 116.0 | 1339 | 4.083E-07 | 3.430E-06 | 2200 |
| 118.0 | 391 | 1.192E-07 | 1.001E-06 | 2200 |
| 120.0 | 148 | 4.541E-08 | 3.814E-07 | 2200 |
| 122.0 | 6 | 1.939E-09 | 1.629E-08 | 2200 |
| 124.0 | 0 | 2.282E-10 | 1.917E-09 | 2200 |
| 126.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 6.271E-04 SEC/SQ.M 5.267E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.8 | 0 | 0. | 0. | 3200 |
| 100.8 | 17 | 5.454E-09 | 4.581E-08 | 3217 |
| 101.8 | 52 | 1.604E-08 | 1.347E-07 | 3218 |
| 102.8 | 217 | 6.641E-08 | 5.576E-07 | 3220 |
| 103.8 | 394 | 1.203E-07 | 1.011E-06 | 3222 |
| 104.8 | 1330 | 4.055E-07 | 3.406E-06 | 3224 |
| 105.8 | 2253 | 6.869E-07 | 5.770E-06 | 3225 |
| 106.8 | 3212 | 9.791E-07 | 8.225E-06 | 3227 |
| 107.8 | 2816 | 8.591E-07 | 7.217E-06 | 3229 |
| 108.8 | 2830 | 8.627E-07 | 7.246E-06 | 3230 |
| 109.7 | 2319 | 7.071E-07 | 5.939E-06 | 3232 |
| 110.7 | 3240 | 9.878E-07 | 8.297E-06 | 3233 |
| 111.7 | 2956 | 9.018E-07 | 7.575E-06 | 3235 |
| 112.7 | 4022 | 1.226E-06 | 1.030E-05 | 3237 |
| 113.7 | 2892 | 8.816E-07 | 7.405E-06 | 3238 |
| 114.6 | 1270 | 3.872E-07 | 3.253E-06 | 3240 |
| 115.6 | 650 | 1.983E-07 | 1.665E-06 | 3241 |
| 116.6 | 482 | 1.469E-07 | 1.234E-06 | 3243 |
| 117.6 | 87 | 2.663E-08 | 2.237E-07 | 3245 |
| 118.6 | 38 | 1.187E-08 | 9.971E-08 | 3246 |
| 119.5 | 2 | 6.416E-10 | 5.390E-09 | 3248 |
| 120.5 | 13 | 4.171E-09 | 3.503E-08 | 3249 |
| 121.5 | 4 | 1.283E-09 | 1.078E-08 | 3251 |
| 122.4 | 0 | 0. | 0. | 3252 |

CROSSWIND INTEGRATED= 5.269E-04 SEC/SQ.M 4.426E-03 1/M

| | | | | |
|---|---|---|---|---|
| 104.5 | 1384 | 7.748E-07 | 4.164E-06 | 1622 |
| 105.5 | 3964 | 2.218E-06 | 1.198E-05 | 1623 |
| 106.5 | 4906 | 2.746E-06 | 1.483E-05 | 1625 |
| 107.5 | 3120 | 1.746E-06 | 9.430E-06 | 1627 |
| 108.5 | 3666 | 2.052E-06 | 1.108E-05 | 1628 |
| 109.5 | 4311 | 2.413E-06 | 1.303E-05 | 1630 |
| 110.4 | 1176 | 6.585E-07 | 3.556E-06 | 1632 |
| 111.4 | 680 | 3.809E-07 | 2.057E-06 | 1633 |
| 112.4 | 520 | 2.911E-07 | 1.572E-06 | 1635 |
| 113.4 | 113 | 6.371E-08 | 3.440E-07 | 1637 |
| S 114.4 | 104 | 5.842E-08 | 3.155E-07 | 1638 |
| 115.3 | 123 | 6.900E-08 | 3.726E-07 | 1640 |
| 116.3 | 0 | 2.776E-10 | 1.499E-09 | 1641 |
| 117.3 | 2 | 1.454E-09 | 7.852E-09 | 1643 |
| 118.2 | 12 | 7.138E-09 | 3.854E-08 | 1644 |
| 119.2 | 0 | 0. | 0. | 1646 |
| 120.2 | 0 | 0. | 0. | 1647 |
| 121.2 | 0 | 0. | 0. | 1649 |
| 122.1 | 0 | 1.504E-10 | 8.565E-10 | 1650 |
| 123.1 | 5 | 3.305E-09 | 1.784E-08 | 1652 |

CROSSWIND INTEGRATED= 5.434E-04 SEC/SQ.M 2.934E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 1.928E-10 | 1.041E-09 | 2200 |
| 98.0 | 2 | 1.297E-09 | 7.002E-09 | 2200 |
| 100.0 | 52 | 2.953E-08 | 1.594E-07 | 2200 |
| 102.0 | 669 | 3.749E-07 | 2.025E-06 | 2200 |
| 104.0 | 2826 | 1.582E-06 | 8.542E-06 | 2200 |
| 106.0 | 4648 | 2.601E-06 | 1.405E-05 | 2200 |
| E 108.0 | 3550 | 1.987E-06 | 1.073E-05 | 2200 |
| 110.0 | 1972 | 1.104E-06 | 5.959E-06 | 2200 |
| 112.0 | 867 | 4.853E-07 | 2.621E-06 | 2200 |
| 114.0 | 227 | 1.275E-07 | 6.884E-07 | 2200 |
| 116.0 | 6 | 3.557E-09 | 1.921E-08 | 2200 |
| 118.0 | 2 | 1.560E-09 | 8.422E-09 | 2200 |
| E 120.0 | 2 | 1.297E-09 | 7.002E-09 | 2200 |
| 122.0 | 1 | 1.034E-09 | 5.583E-09 | 2200 |
| 124.0 | 0 | 4.731E-10 | 2.555E-09 | 2200 |
| B 126.0 | 0 | 1.051E-10 | 5.678E-10 | 2200 |

CROSSWIND INTEGRATED= 6.374E-04 SEC/SQ.M 3.442E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.8 | 0 | 0. | 0. | 3200 |
| 98.8 | 0 | 0. | 0. | 3213 |
| 99.8 | 0 | 1.793E-11 | 9.684E-11 | 3215 |
| 100.8 | 21 | 1.184E-08 | 6.391E-08 | 3217 |
| 101.8 | 113 | 6.366E-08 | 3.438E-07 | 3218 |
| 102.8 | 350 | 1.964E-07 | 1.060E-06 | 3220 |
| 103.8 | 500 | 2.801E-07 | 1.512E-06 | 3222 |
| 104.8 | 1658 | 9.280E-07 | 5.011E-06 | 3224 |
| 105.8 | 2555 | 1.430E-06 | 7.723E-06 | 3225 |
| 106.8 | 3497 | 1.957E-06 | 1.057E-05 | 3227 |
| 107.8 | 2757 | 1.543E-06 | 8.333E-06 | 3229 |
| 108.8 | 1950 | 1.091E-06 | 5.893E-06 | 3230 |
| 109.7 | 1411 | 7.900E-07 | 4.266E-06 | 3232 |
| 110.7 | 1120 | 6.268E-07 | 3.385E-06 | 3233 |
| 111.7 | 799 | 4.474E-07 | 2.416E-06 | 3235 |
| 112.7 | 447 | 2.502E-07 | 1.351E-06 | 3237 |
| 113.7 | 190 | 1.067E-07 | 5.762E-07 | 3238 |
| 114.6 | 7 | 4.304E-09 | 2.324E-08 | 3240 |
| 115.6 | 18 | 1.056E-08 | 5.714E-08 | 3241 |
| L 116.6 | 2 | 1.375E-09 | 7.424E-09 | 3243 |
| E 117.6 | 2 | 1.435E-09 | 7.747E-09 | 3245 |
| E 118.6 | 0 | 0. | 0. | 3246 |

CROSSWIND INTEGRATED= 5.432E-04 SEC/SQ.M 2.933E-03 1/M



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TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 0. | 0. | 4690 |
| 102.0 | 4 | 1.369E-09 | 1.150E-08 | 4710 |
| 104.0 | 53 | 1.620E-08 | 1.361E-07 | 4770 |
| 106.0 | 589 | 1.796E-07 | 1.508E-06 | 4810 |
| 108.0 | 1266 | 3.861E-07 | 3.243E-06 | 4870 |
| 110.0 | 2025 | 6.174E-07 | 5.186E-06 | 4920 |
| 112.0 | 1877 | 5.723E-07 | 4.807E-06 | 4990 |
| 114.0 | 928 | 2.829E-07 | 2.377E-06 | 5080 |
| 116.0 | 130 | 3.970E-08 | 3.335E-07 | 5020 |
| 118.0 | 12 | 3.765E-09 | 3.162E-08 | 5100 |
| 120.0 | 12 | 3.879E-09 | 3.258E-08 | 5130 |
| 122.0 | 2 | 6.845E-10 | 5.750E-09 | 4830 |
| 124.0 | 0 | 0. | 0. | 4660 |

CROSSWIND INTEGRATED= 3.630E-04 SEC/SQ.M 3.049E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 0. | 0. | 4690 |
| 102.0 | 4 | 2.629E-09 | 1.419E-08 | 4710 |
| 104.0 | 40 | 2.276E-08 | 1.229E-07 | 4770 |
| 106.0 | 551 | 3.087E-07 | 1.667E-06 | 4810 |
| 108.0 | 926 | 5.165E-07 | 2.800E-06 | 4870 |
| 110.0 | 1163 | 6.510E-07 | 3.515E-06 | 4920 |
| 112.0 | 426 | 2.388E-07 | 1.290E-06 | 4990 |
| 114.0 | 111 | 6.256E-08 | 3.378E-07 | 5080 |
| 116.0 | 0 | 5.520E-10 | 2.981E-09 | 5020 |
| 118.0 | 0 | 2.453E-10 | 1.325E-09 | 5100 |
| 120.0 | 0 | 4.206E-10 | 2.271E-09 | 5130 |
| 122.0 | 0 | 5.257E-11 | 2.839E-10 | 4830 |
| 124.0 | 0 | 1.928E-10 | 1.041E-09 | 4660 |

CROSSWIND INTEGRATED= 3.090E-04 SEC/SQ.M 1.668E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 6610 |
| 104.0 | 40 | 1.221E-08 | 1.025E-07 | 6650 |
| 4 106.0 | 84 | 2.590E-08 | 2.175E-07 | 6720 |
| 4 108.0 | 300 | 9.150E-08 | 7.686E-07 | 6800 |
| 4 110.0 | 871 | 2.657E-07 | 2.232E-06 | 7000 |
| 112.0 | 903 | 2.754E-07 | 2.313E-06 | 7300 |
| 114.0 | 352 | 1.074E-07 | 9.018E-07 | 7210 |
| 116.0 | 17 | 5.362E-09 | 4.504E-08 | 7220 |
| 118.0 | 2 | 6.845E-10 | 5.750E-09 | 7190 |
| 120.0 | 0 | 2.262E-10 | 1.917E-09 | 7150 |
| 122.0 | 7 | 2.168E-09 | 1.821E-08 | 7120 |
| 124.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 1.949E-04 SEC/SQ.M 1.637E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 1 | 8.061E-10 | 4.353E-09 | 6510 |
| 98.0 | 0 | 0. | 0. | 6520 |
| 100.0 | 0 | 0. | 0. | 6560 |
| 102.0 | 0 | 0. | 0. | 6610 |
| 104.0 | 2 | 1.542E-09 | 8.327E-09 | 6650 |
| 4 106.0 | 91 | 5.133E-08 | 2.772E-07 | 6720 |
| 4 108.0 | 286 | 1.612E-07 | 8.705E-07 | 6800 |
| 4 110.0 | 38 | 2.136E-08 | 1.153E-07 | 7220 |
| 112.0 | 294 | 1.649E-07 | 8.903E-07 | 7300 |
| 114.0 | 77 | 4.309E-08 | 2.327E-07 | 7210 |
| 116.0 | 0 | 3.505E-10 | 1.893E-09 | 7000 |
| 118.0 | 0 | 0. | 0. | 7190 |

CROSSWIND INTEGRATED= 8.728E-05 SEC/SQ.M 4.713E-04 1/M

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 8.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.0 | 0 | 0. | 0. | 12800 |
| 105.0 | 7 | 2.262E-09 | 1.917E-08 | 12800 |
| S 106.0 | 2 | 6.845E-10 | 5.750E-09 | 12800 |
| 107.0 | 1 | 4.563E-10 | 3.833E-09 | 12800 |
| S 108.0 | 20 | 6.389E-09 | 5.367E-08 | 12800 |
| Q 109.0 | 150 | 4.566E-08 | 3.652E-07 | 12800 |
| 110.0 | 451 | 1.376E-07 | 1.156E-06 | 12800 |
| Q 111.0 | 963 | 2.937E-07 | 2.467E-06 | 12800 |
| 112.0 | 695 | 2.121E-07 | 1.782E-06 | 12800 |
| 113.0 | 437 | 1.334E-07 | 1.120E-06 | 12800 |
| 114.0 | 175 | 5.351E-08 | 4.495E-07 | 12800 |
| 115.0 | 0 | 0. | 0. | 12800 |
| 116.0 | 7 | 2.396E-09 | 2.012E-08 | 12800 |
| Q 117.0 | 0 | 0. | 0. | 12800 |
| Q 118.0 | 0 | 0. | 0. | 12800 |
| 119.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 1.984E-04 SEC/SQ.M 1.667E-03 1/M

TEST U62 JUNE 7, 1968 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| T 104.0 | 0 | 0. | 0. | 12800 |
| C 105.0 | 0 | 0. | 0. | 12800 |
| T 106.0 | 0 | 3.680E-11 | 1.987E-10 | 12800 |
| 107.0 | 0 | 3.855E-10 | 2.082E-09 | 12800 |
| T 108.0 | 7 | 4.416E-09 | 2.385E-08 | 12800 |
| C 109.0 | 71 | 4.016E-08 | 2.169E-07 | 12800 |
| 110.0 | 137 | 7.696E-08 | 4.156E-07 | 12800 |
| C 111.0 | 341 | 1.910E-07 | 1.032E-06 | 12800 |
| 112.0 | 426 | 2.389E-07 | 1.290E-06 | 12800 |
| 113.0 | 223 | 1.248E-07 | 6.739E-07 | 12800 |
| 4 114.0 | 170 | 9.536E-08 | 5.150E-07 | 12800 |
| Z 115.0 | 0 | 0. | 0. | 12800 |
| 116.0 | 14 | 8.096E-09 | 4.372E-08 | 12800 |
| C 117.0 | 2 | 1.630E-09 | 8.800E-09 | 12800 |
| C 118.0 | 0 | 0. | 0. | 12800 |
| 119.0 | 0 | 5.432E-10 | 2.933E-09 | 12800 |
| S 120.0 | 0 | 1.577E-10 | 8.516E-10 | 12800 |

CROSSWIND INTEGRATED= 1.748E-04 SEC/SQ.M 9.440E-04 1/M



U62

1202745

SAMPLING 400M TO 12800M, NO TOWER SAMPLING.
ZINC SULFIDE DISPERSED FOR 30 MIN. DISPERSAL DIFFICULTIES RESTRICTED FLUORESCEIN DISPERSAL TO 25 MIN.
2200M AND 12800M ARCS TRUNCATED ON NORTH: 12800M DATA EXTRAPOLATED SLIGHTLY .

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.0 | 44 | 1.196E-08 | 7.176E-08 | 400 |
| 102.0 | 5803 | 1.577E-06 | 9.463E-06 | 400 |
| 106.0 | 39476 | 1.073E-05 | 6.436E-05 | 400 |
| 110.0 | 94518 | 2.568E-05 | 1.541E-04 | 400 |
| 114.0 | 12995 | 3.531E-06 | 2.119E-05 | 400 |
| 118.0 | 77 | 2.093E-08 | 1.256E-07 | 400 |
| 122.0 | 42 | 1.159E-08 | 6.951E-08 | 400 |
| 126.0 | 1 | 3.737E-10 | 2.242E-09 | 400 |
| CROSSWIND INTEGRATED= | | 1.161E-03 SEC/SQ.M | 6.964E-03 1/M | |

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.1 | 63 | 1.734E-08 | 1.040E-07 | 806 |
| 99.1 | 0 | 0. | 0. | 809 |
| 101.1 | 556 | 1.512E-07 | 9.074E-07 | 813 |
| 103.0 | 9240 | 2.511E-06 | 1.507E-05 | 816 |
| 105.0 | 38785 | 1.054E-05 | 6.324E-05 | 820 |
| 106.9 | 93833 | 2.550E-05 | 1.530E-04 | 823 |
| 108.8 | 162737 | 4.422E-05 | 2.653E-04 | 826 |
| 110.7 | 117806 | 3.201E-05 | 1.921E-04 | 829 |
| 112.6 | 93932 | 2.553E-05 | 1.532E-04 | 833 |
| 114.5 | 9861 | 2.680E-06 | 1.608E-05 | 836 |
| 116.4 | 889 | 2.416E-07 | 1.450E-06 | 839 |
| 118.3 | 49 | 1.349E-08 | 8.091E-08 | 842 |
| CROSSWIND INTEGRATED= | | 3.942E-03 SEC/SQ.M | 2.365E-02 1/M | |

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 1 | 4.169E-10 | 2.501E-09 | 1200 |
| 98.0 | 1 | 4.169E-10 | 2.501E-09 | 1200 |
| 100.0 | 7 | 2.084E-09 | 1.251E-08 | 1200 |
| 102.0 | 235 | 6.399E-08 | 3.840E-07 | 1200 |
| 104.0 | 6440 | 1.750E-06 | 1.050E-05 | 1200 |
| 106.0 | 37592 | 1.022E-05 | 6.129E-05 | 1200 |
| 108.0 | 102358 | 2.781E-05 | 1.669E-04 | 1200 |
| 110.0 | 102472 | 2.785E-05 | 1.671E-04 | 1200 |
| 112.0 | 54742 | 1.488E-05 | 8.925E-05 | 1200 |
| 114.0 | 7111 | 1.933E-06 | 1.160E-05 | 1200 |
| W 116.0 | 257 | 7.004E-08 | 4.202E-07 | 1200 |
| W 118.0 | 0 | 0. | 0. | 1200 |
| CROSSWIND INTEGRATED= | | 3.543E-03 SEC/SQ.M | 2.126E-02 1/M | |

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 2 | 8.485E-10 | 2.545E-09 | 400 |
| 90.0 | 3 | 1.328E-09 | 3.984E-09 | 400 |
| 94.0 | 1291 | 4.407E-07 | 1.322E-06 | 400 |
| 98.0 | 62566 | 2.135E-05 | 6.406E-05 | 400 |
| S 102.0 | 139040 | 4.745E-05 | 1.424E-04 | 400 |
| 106.0 | 677831 | 2.313E-04 | 6.940E-04 | 400 |
| 110.0 | 399745 | 1.364E-04 | 4.093E-04 | 400 |
| 114.0 | 13097 | 4.470E-06 | 1.341E-05 | 400 |
| 118.0 | 453 | 1.549E-07 | 4.646E-07 | 400 |
| 122.0 | 104 | 3.556E-08 | 1.067E-07 | 400 |
| 126.0 | 107 | 3.678E-08 | 1.103E-07 | 400 |
| 130.0 | 104 | 3.567E-08 | 1.070E-07 | 400 |
| 134.0 | 55 | 1.907E-08 | 5.722E-08 | 400 |
| R 138.0 | 35 | 1.206E-08 | 3.619E-08 | 400 |
| CROSSWIND INTEGRATED= | | 1.234E-02 SEC/SQ.M | 3.701E-02 1/M | |

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.1 | 10 | 3.667E-09 | 1.100E-08 | 806 |
| 99.1 | 2240 | 7.646E-07 | 2.294E-06 | 809 |
| 101.0 | 20603 | 7.032E-06 | 2.110E-05 | 813 |
| 103.0 | 82054 | 2.801E-05 | 8.402E-05 | 816 |
| 105.0 | 149007 | 5.086E-05 | 1.526E-04 | 820 |
| 106.9 | 331147 | 1.130E-04 | 3.391E-04 | 823 |
| 108.8 | 352745 | 1.204E-04 | 3.612E-04 | 826 |
| 110.7 | 107972 | 3.685E-05 | 1.106E-04 | 829 |
| 112.6 | 19539 | 6.669E-06 | 2.001E-05 | 833 |
| 114.5 | 886 | 3.025E-07 | 9.076E-07 | 836 |
| 116.4 | 24 | 8.361E-09 | 2.508E-08 | 839 |
| 118.3 | 9 | 3.301E-09 | 9.902E-09 | 842 |
| 120.2 | 0 | 2.445E-10 | 7.335E-10 | 845 |
| CROSSWIND INTEGRATED= | | 1.002E-02 SEC/SQ.M | 3.006E-02 1/M | |

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 1 | 5.761E-10 | 1.728E-09 | 1200 |
| 96.0 | 0 | 0. | 0. | 1200 |
| 98.0 | 47 | 1.632E-06 | 4.895E-06 | 1200 |
| 100.0 | 141 | 4.841E-08 | 1.452E-07 | 1200 |
| 102.0 | 3162 | 1.079E-06 | 3.238E-06 | 1200 |
| 104.0 | 31502 | 1.075E-05 | 3.226E-05 | 1200 |
| 106.0 | 71490 | 2.440E-05 | 7.320E-05 | 1200 |
| 108.0 | 106631 | 3.639E-05 | 1.092E-04 | 1200 |
| 110.0 | 61796 | 2.109E-05 | 6.327E-05 | 1200 |
| 112.0 | 8352 | 2.851E-06 | 8.552E-06 | 1200 |
| 114.0 | 490 | 1.675E-07 | 5.026E-07 | 1200 |
| W 116.0 | 5 | 2.014E-09 | 6.043E-09 | 1200 |
| W 118.0 | 2 | 7.613E-10 | 2.284E-09 | 1200 |
| 120.0 | 0 | 2.058E-10 | 6.173E-10 | 1200 |
| CROSSWIND INTEGRATED= | | 4.055E-03 SEC/SQ.M | 1.216E-02 1/M | |



120274b

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 101.6 | 21 | 5.814E-09 | 3.488E-08 | 1617 |
| 102.6 | 128 | 3.488E-08 | 2.093E-07 | 1618 |
| 103.6 | 965 | 2.624E-07 | 1.574E-06 | 1620 |
| 104.5 | 3492 | 9.491E-07 | 5.695E-06 | 1622 |
| 105.5 | 12125 | 3.295E-06 | 1.977E-05 | 1623 |
| 106.5 | 38080 | 1.035E-05 | 6.209E-05 | 1625 |
| 107.5 | 59690 | 1.622E-05 | 9.732E-05 | 1627 |
| 108.5 | 80462 | 2.186E-05 | 1.312E-04 | 1628 |
| 109.5 | 51126 | 1.389E-05 | 8.336E-05 | 1630 |
| 110.4 | 78801 | 2.141E-05 | 1.285E-04 | 1632 |
| 111.4 | 50516 | 1.373E-05 | 8.236E-05 | 1633 |
| 112.4 | 23989 | 6.519E-06 | 3.911E-05 | 1635 |
| 113.4 | 7563 | 2.055E-06 | 1.233E-05 | 1637 |
| 114.4 | 2080 | 5.654E-07 | 3.392E-08 | 1638 |
| 115.3 | 604 | 1.642E-07 | 9.855E-07 | 1640 |
| 116.3 | 61 | 1.672E-08 | 1.003E-07 | 1641 |

CROSSWIND INTEGRATED= 3.114E-03 SEC/SQ.M 1.868E-02 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 110.0 | 55989 | 1.521E-05 | 9.129E-05 | 2200 |
| 112.0 | 11696 | 3.178E-06 | 1.907E-05 | 2200 |
| 114.0 | 1286 | 3.497E-07 | 2.098E-06 | 2200 |
| 116.0 | 40 | 1.091E-08 | 6.548E-08 | 2200 |

CROSSWIND INTEGRATED= 1.440E-03 SEC/SQ.M 8.641E-03 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 93.8 | 0 | 0. | 0. | 3205 |
| 94.8 | 27 | 7.387E-09 | 4.432E-08 | 3206 |
| 95.8 | 54 | 1.477E-08 | 8.864E-08 | 3208 |
| 96.8 | 179 | 4.875E-08 | 2.925E-07 | 3210 |
| 97.8 | 133 | 3.620E-08 | 2.172E-07 | 3212 |
| 98.8 | 386 | 1.049E-07 | 6.294E-07 | 3213 |
| 99.8 | 660 | 1.795E-07 | 1.077E-06 | 3215 |
| 100.8 | 917 | 2.493E-07 | 1.496E-06 | 3217 |
| 101.8 | 1476 | 4.011E-07 | 2.407E-06 | 3218 |
| 102.8 | 1635 | 4.443E-07 | 2.666E-06 | 3220 |
| 103.8 | 1966 | 5.345E-07 | 3.207E-06 | 3222 |
| 104.8 | 5684 | 1.545E-06 | 9.268E-06 | 3224 |
| 105.8 | 6308 | 1.714E-06 | 1.029E-05 | 3225 |
| 106.8 | 14882 | 4.044E-06 | 2.426E-05 | 3227 |
| 107.8 | 24947 | 6.779E-06 | 4.067E-05 | 3229 |
| C 108.8 | 32159 | 8.739E-06 | 5.243E-05 | 3230 |
| C 109.7 | 30863 | 8.387E-06 | 5.032E-05 | 3232 |
| C 110.7 | 23957 | 6.510E-06 | 3.906E-05 | 3233 |
| 111.7 | 8440 | 2.294E-06 | 1.376E-05 | 3235 |
| 112.7 | 2339 | 6.357E-07 | 3.814E-06 | 3237 |
| 113.7 | 591 | 1.607E-07 | 9.640E-07 | 3238 |
| 114.6 | 70 | 1.921E-08 | 1.152E-07 | 3240 |
| 115.6 | 23 | 6.279E-09 | 3.767E-08 | 3241 |
| 116.6 | 0 | 0. | 0. | 3243 |

CROSSWIND INTEGRATED= 2.367E-03 SEC/SQ.M 1.420E-02 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.6 | 70 | 2.419E-08 | 7.256E-08 | 1611 |
| 99.6 | 87 | 2.983E-08 | 8.948E-08 | 1613 |
| 100.6 | 297 | 1.016E-07 | 3.047E-07 | 1615 |
| 101.6 | 512 | 1.749E-07 | 5.248E-07 | 1617 |
| 102.6 | 1929 | 6.586E-07 | 1.976E-06 | 1618 |
| 103.6 | 5052 | 1.724E-06 | 5.173E-06 | 1620 |
| 104.5 | 13881 | 4.738E-06 | 1.421E-05 | 1622 |
| 105.5 | 34346 | 1.172E-05 | 3.517E-05 | 1623 |
| 106.5 | 62020 | 2.117E-05 | 6.350E-05 | 1625 |
| 107.5 | 73949 | 2.524E-05 | 7.572E-05 | 1627 |
| 108.5 | 71563 | 2.442E-05 | 7.327E-05 | 1628 |
| 109.5 | 52478 | 1.791E-05 | 5.373E-05 | 1630 |
| 110.4 | 22895 | 7.814E-06 | 2.344E-05 | 1632 |
| 111.4 | 9814 | 3.350E-06 | 1.005E-05 | 1633 |
| 112.4 | 1481 | 5.055E-07 | 1.516E-06 | 1635 |
| C 113.4 | 935 | 3.192E-07 | 9.577E-07 | 1637 |
| C 114.4 | 465 | 1.586E-07 | 4.764E-07 | 1638 |
| C 115.3 | 205 | 7.014E-08 | 2.104E-07 | 1640 |
| 116.3 | 66 | 2.257E-08 | 6.772E-08 | 1641 |
| 117.3 | 0 | 0. | 0. | 1643 |

CROSSWIND INTEGRATED= 3.360E-03 SEC/SQ.M 1.010E-02 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 110.0 | 12333 | 4.209E-06 | 1.263E-05 | 2200 |
| 112.0 | 886 | 3.026E-07 | 9.078E-07 | 2200 |
| 114.0 | 31 | 1.060E-08 | 3.181E-08 | 2200 |
| 116.0 | 0 | 1.657E-10 | 4.970E-10 | 2200 |
| 3 118.0 | 0 | 2.031E-10 | 6.092E-10 | 2200 |

CROSSWIND INTEGRATED= 3.473E-04 SEC/SQ.M 1.042E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 91.8 | 52 | 1.779E-08 | 5.337E-08 | 3201 |
| 92.8 | 93 | 3.201E-08 | 9.603E-08 | 3203 |
| 93.8 | 119 | 4.076E-08 | 1.223E-07 | 3205 |
| 94.8 | 232 | 7.941E-08 | 2.382E-07 | 3206 |
| 95.8 | 403 | 1.377E-07 | 4.132E-07 | 3208 |
| 96.8 | 455 | 1.554E-07 | 4.662E-07 | 3210 |
| 97.8 | 387 | 1.324E-07 | 3.972E-07 | 3212 |
| 98.8 | 782 | 2.672E-07 | 8.015E-07 | 3213 |
| 99.8 | 1096 | 3.744E-07 | 1.123E-06 | 3215 |
| 100.8 | 1612 | 5.504E-07 | 1.651E-06 | 3217 |
| 101.8 | 2151 | 7.342E-07 | 2.203E-06 | 3218 |
| 102.8 | 2891 | 9.869E-07 | 2.961E-06 | 3220 |
| 103.8 | 3766 | 1.285E-06 | 3.856E-06 | 3222 |
| 104.8 | 6471 | 2.209E-06 | 6.626E-06 | 3224 |
| 105.8 | 8089 | 2.761E-06 | 8.283E-06 | 3225 |
| 106.8 | 14562 | 4.970E-06 | 1.491E-05 | 3227 |
| 107.8 | 17475 | 5.964E-06 | 1.789E-05 | 3229 |
| 108.8 | 14239 | 4.860E-06 | 1.458E-05 | 3230 |
| 109.7 | 9060 | 3.092E-06 | 9.277E-06 | 3232 |
| C 110.7 | 3699 | 1.262E-06 | 3.787E-06 | 3233 |
| 111.7 | 1164 | 3.973E-07 | 1.192E-06 | 3235 |
| Z 112.7 | 165 | 5.662E-08 | 1.699E-07 | 3237 |
| 113.7 | 29 | 1.022E-08 | 3.067E-08 | 3238 |
| 114.6 | 0 | 3.646E-11 | 1.094E-10 | 3240 |

CROSSWIND INTEGRATED= 1.688E-03 SEC/SQ.M 5.065E-03 1/M



U63 1202747

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| P 94.0 | 0 | 0. | 0. | 4620 |
| 96.0 | 35 | 9.663E-09 | 5.798E-08 | 4620 |
| 98.0 | 216 | 5.878E-08 | 3.527E-07 | 4660 |
| 100.0 | 1077 | 2.927E-07 | 1.756E-06 | 4690 |
| 102.0 | 1572 | 4.273E-07 | 2.564E-06 | 4710 |
| E 104.0 | 2571 | 6.988E-07 | 4.193E-06 | 4770 |
| 106.0 | 4576 | 1.244E-06 | 7.462E-06 | 4810 |
| 108.0 | 4476 | 1.216E-06 | 7.299E-06 | 4870 |
| 110.0 | 4000 | 1.087E-06 | 6.523E-06 | 4920 |
| 112.0 | 1002 | 2.724E-07 | 1.634E-06 | 4990 |
| 114.0 | 147 | 4.013E-08 | 2.406E-07 | 5060 |
| 116.0 | 3 | 9.095E-10 | 5.457E-09 | 5020 |
| 118.0 | 0 | 0. | 0. | 5100 |

CROSSWIND INTEGRATED= 9.027E-04 SEC/SQ.M 5.416E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 4610 |
| 92.0 | 10 | 3.441E-09 | 1.032E-08 | 4620 |
| E 94.0 | 45 | 1.563E-08 | 4.688E-08 | 4620 |
| 96.0 | 255 | 8.723E-08 | 2.617E-07 | 4620 |
| 98.0 | 432 | 1.477E-07 | 4.432E-07 | 4660 |
| 100.0 | 1024 | 3.497E-07 | 1.049E-06 | 4690 |
| 102.0 | 1360 | 4.642E-07 | 1.393E-06 | 4710 |
| E 104.0 | 2103 | 7.178E-07 | 2.153E-06 | 4770 |
| 106.0 | 2958 | 1.010E-06 | 3.029E-06 | 4810 |
| 108.0 | 3286 | 1.122E-06 | 3.365E-06 | 4870 |
| 110.0 | 1162 | 3.968E-07 | 1.191E-06 | 4920 |
| 112.0 | 196 | 6.692E-08 | 2.008E-07 | 4990 |
| 114.0 | 14 | 4.831E-09 | 1.449E-08 | 5060 |
| 116.0 | 2 | 7.802E-10 | 2.341E-09 | 5020 |
| 118.0 | 0 | 1.710E-10 | 5.130E-10 | 5100 |
| 120.0 | 0 | 3.313E-10 | 9.939E-10 | 5130 |

CROSSWIND INTEGRATED= 7.354E-04 SEC/SQ.M 2.206E-03 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 0 | 0. | 0. | 6500 |
| 96.0 | 23 | 6.480E-09 | 3.888E-08 | 6510 |
| 98.0 | 434 | 1.180E-07 | 7.080E-07 | 6520 |
| 100.0 | 1077 | 2.927E-07 | 1.756E-06 | 6560 |
| 102.0 | 373 | 1.015E-07 | 6.091E-07 | 6610 |
| 104.0 | 2555 | 6.944E-07 | 4.166E-06 | 6650 |
| 106.0 | 1093 | 2.972E-07 | 1.783E-06 | 6720 |
| 108.0 | 2988 | 8.122E-07 | 4.873E-06 | 6800 |
| 110.0 | 1879 | 5.108E-07 | 3.065E-06 | 7000 |
| 112.0 | 275 | 7.481E-08 | 4.488E-07 | 7300 |
| 114.0 | 68 | 1.853E-08 | 1.112E-07 | 7210 |
| 116.0 | 8 | 2.274E-09 | 1.364E-08 | 7220 |
| 118.0 | 3 | 1.023E-09 | 6.139E-09 | 7190 |
| 120.0 | 0 | 0. | 0. | 7150 |

CROSSWIND INTEGRATED= 6.918E-04 SEC/SQ.M 4.151E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 1.336E-10 | 4.008E-10 | 6500 |
| 88.0 | 0 | 0. | 0. | 6480 |
| 90.0 | 0 | 0. | 0. | 6500 |
| 92.0 | 3 | 1.160E-09 | 3.479E-09 | 6490 |
| 94.0 | 37 | 1.264E-08 | 3.791E-08 | 6500 |
| 96.0 | 192 | 6.575E-08 | 1.973E-07 | 6510 |
| 98.0 | 728 | 2.486E-07 | 7.459E-07 | 6520 |
| 100.0 | 1024 | 3.496E-07 | 1.049E-06 | 6560 |
| 102.0 | 1063 | 3.631E-07 | 1.089E-06 | 6610 |
| 104.0 | 1642 | 5.606E-07 | 1.682E-06 | 6650 |
| 106.0 | 1438 | 4.910E-07 | 1.473E-06 | 6720 |
| 108.0 | 1201 | 4.102E-07 | 1.231E-06 | 6500 |
| 110.0 | 787 | 2.689E-07 | 8.064E-07 | 7000 |
| 112.0 | 93 | 3.181E-08 | 9.543E-08 | 7300 |
| 114.0 | 4 | 1.544E-09 | 4.633E-09 | 7210 |
| 1 116.0 | 1 | 5.504E-10 | 1.651E-09 | 7220 |
| 2 118.0 | 1 | 3.901E-10 | 1.170E-09 | 7190 |

CROSSWIND INTEGRATED= 6.556E-04 SEC/SQ.M 1.967E-03 1/M

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 81.0 | 0 | 0. | 0. | 12800 |
| E 82.0 | 0 | 1.137E-10 | 6.821E-10 | 12800 |
| E 83.0 | 1 | 3.411E-10 | 2.046E-09 | 12800 |
| E 84.0 | 2 | 6.821E-10 | 4.093E-09 | 12800 |
| E 85.0 | 4 | 1.251E-09 | 7.503E-09 | 12800 |
| E 86.0 | 7 | 2.160E-09 | 1.296E-08 | 12800 |
| E 87.0 | 12 | 3.411E-09 | 2.046E-08 | 12800 |
| E 88.0 | 21 | 5.798E-09 | 3.479E-08 | 12800 |
| E 89.0 | 33 | 9.095E-09 | 5.457E-08 | 12800 |
| E 90.0 | 51 | 1.398E-08 | 8.390E-08 | 12800 |
| B 91.0 | 83 | 2.262E-08 | 1.357E-07 | 12800 |
| U 92.0 | 51 | 1.410E-08 | 8.458E-08 | 12800 |
| 4 93.0 | 160 | 4.366E-08 | 2.619E-07 | 12800 |
| 5 94.0 | 140 | 3.809E-08 | 2.285E-07 | 12800 |
| 4 95.0 | 214 | 5.821E-08 | 3.492E-07 | 12800 |
| 4 96.0 | 298 | 8.117E-08 | 4.870E-07 | 12800 |
| E 97.0 | 300 | 8.163E-08 | 4.898E-07 | 12800 |
| 5 98.0 | 306 | 8.333E-08 | 5.000E-07 | 12800 |
| 6 99.0 | 239 | 6.503E-08 | 3.902E-07 | 12800 |
| 4 100.0 | 563 | 1.530E-07 | 9.181E-07 | 12800 |
| 4 101.0 | 553 | 1.503E-07 | 9.016E-07 | 12800 |
| 5 102.0 | 733 | 1.994E-07 | 1.196E-06 | 12800 |
| 5 103.0 | 713 | 1.940E-07 | 1.164E-06 | 12800 |
| 5 104.0 | 794 | 2.159E-07 | 1.295E-06 | 12800 |
| E 105.0 | 827 | 2.249E-07 | 1.349E-06 | 12800 |
| 7 106.0 | 932 | 2.533E-07 | 1.520E-06 | 12800 |
| 107.0 | 3176 | 8.632E-07 | 5.179E-06 | 12800 |
| 108.0 | 3047 | 8.282E-07 | 4.969E-06 | 12800 |
| E 109.0 | 2052 | 5.577E-07 | 3.346E-06 | 12800 |
| 110.0 | 1165 | 3.166E-07 | 1.900E-06 | 12800 |
| 111.0 | 405 | 1.103E-07 | 6.617E-07 | 12800 |
| 112.0 | 306 | 8.333E-08 | 5.000E-07 | 12800 |
| 113.0 | 158 | 4.320E-08 | 2.592E-07 | 12800 |
| E 114.0 | 94 | 2.558E-08 | 1.535E-07 | 12800 |
| 115.0 | 115 | 3.126E-08 | 1.876E-07 | 12800 |
| 116.0 | 110 | 3.013E-08 | 1.808E-07 | 12800 |
| 117.0 | 51 | 1.387E-08 | 8.322E-08 | 12800 |
| E 118.0 | 33 | 9.095E-09 | 5.457E-08 | 12800 |
| 119.0 | 26 | 7.276E-09 | 4.366E-08 | 12800 |
| 120.0 | 28 | 7.617E-09 | 4.570E-08 | 12800 |
| 121.0 | 22 | 6.025E-09 | 3.615E-08 | 12800 |
| 122.0 | 18 | 5.116E-09 | 3.070E-08 | 12800 |
| 123.0 | 0 | 0. | 0. | 12800 |
| 124.0 | 0 | 0. | 0. | 12800 |
| 125.0 | 7 | 2.160E-09 | 1.296E-08 | 12800 |

CROSSWIND INTEGRATED= 1.085E-03 SEC/SQ.M 6.509E-03 1/M

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 83.0 | 0 | 0. | 0. | 12800 |
| E 84.0 | 0 | 3.206E-11 | 9.619E-11 | 12800 |
| E 85.0 | 1 | 3.847E-10 | 1.154E-09 | 12800 |
| E 86.0 | 2 | 8.871E-10 | 2.661E-09 | 12800 |
| E 87.0 | 5 | 1.956E-09 | 5.867E-09 | 12800 |
| E 88.0 | 10 | 3.452E-09 | 1.036E-08 | 12800 |
| E 89.0 | 16 | 5.696E-09 | 1.709E-08 | 12800 |
| E 90.0 | 24 | 8.368E-09 | 2.510E-08 | 12800 |
| B 91.0 | 36 | 1.254E-08 | 3.761E-08 | 12800 |
| E 92.0 | 20 | 7.086E-09 | 2.126E-08 | 12800 |
| 4 93.0 | 57 | 1.959E-08 | 5.877E-08 | 12800 |
| 5 94.0 | 79 | 2.718E-08 | 8.153E-08 | 12800 |
| 4 95.0 | 126 | 4.321E-08 | 1.296E-07 | 12800 |
| 4 96.0 | 173 | 5.924E-08 | 1.777E-07 | 12800 |
| E 97.0 | 208 | 7.100E-08 | 2.130E-07 | 12800 |
| 5 98.0 | 248 | 8.489E-08 | 2.547E-07 | 12800 |
| 6 99.0 | 211 | 7.207E-08 | 2.162E-07 | 12800 |
| 4 100.0 | 241 | 8.243E-08 | 2.473E-07 | 12800 |
| 4 101.0 | 346 | 1.183E-07 | 3.550E-07 | 12800 |
| 5 102.0 | 386 | 1.318E-07 | 3.954E-07 | 12800 |
| 5 103.0 | 419 | 1.430E-07 | 4.291E-07 | 12800 |
| 5 104.0 | 491 | 1.677E-07 | 5.032E-07 | 12800 |
| U 105.0 | 668 | 2.350E-07 | 7.051E-07 | 12800 |
| 7 106.0 | 1083 | 3.697E-07 | 1.109E-06 | 12800 |
| 4 107.0 | 1300 | 4.438E-07 | 1.331E-06 | 12800 |
| 3 108.0 | 1122 | 3.832E-07 | 1.150E-06 | 12800 |
| E 109.0 | 590 | 2.014E-07 | 6.042E-07 | 12800 |
| 1 110.0 | 195 | 6.672E-08 | 2.002E-07 | 12800 |
| 3 111.0 | 73 | 2.504E-08 | 7.512E-08 | 12800 |
| 1 112.0 | 51 | 1.767E-08 | 5.300E-08 | 12800 |
| 1 113.0 | 18 | 6.338E-09 | 1.901E-08 | 12800 |
| U 114.0 | 18 | 6.445E-09 | 1.933E-08 | 12800 |
| 3 115.0 | 12 | 4.307E-09 | 1.292E-08 | 12800 |
| 1 116.0 | 12 | 4.307E-09 | 1.292E-08 | 12800 |
| 2 117.0 | 15 | 5.269E-09 | 1.581E-08 | 12800 |
| E 118.0 | 14 | 4.948E-09 | 1.484E-08 | 12800 |
| 1 119.0 | 14 | 4.841E-09 | 1.452E-08 | 12800 |
| 1 120.0 | 8 | 2.918E-09 | 8.753E-09 | 12800 |
| 1 121.0 | 0 | 1.282E-10 | 3.847E-10 | 12800 |

CROSSWIND INTEGRATED= 6.351E-04 SEC/SQ.M 1.905E-03 1/M



U63

1202749

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.
ZINC SULFIDE DISPERSED FOR 30 MIN. DISPERSAL DIFFICULTIES RESTRICTED FLUORESCEIN DISPERSAL TO 20 MIN.
LARGE WIND DIRECTION SHEAR BETWEEN TRACER RELEASE LEVELS. TRACER DISTRIBUTIONS SKEWED LONG TAIL TO THE NORTH.

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| M 78.0 | 0 | 0. | 0. | 400 |
| M 82.0 | 53 | 1.717E-08 | 9.103E-06 | 400 |
| M 86.0 | 15 | 5.106E-09 | 2.706E-06 | 400 |
| M 90.0 | 56 | 1.810E-08 | 9.595E-06 | 400 |
| E 94.0 | 125 | 4.038E-08 | 2.140E-07 | 400 |
| E 98.0 | 254 | 8.170E-08 | 4.330E-07 | 400 |
| E 102.0 | 527 | 1.694E-07 | 8.980E-07 | 400 |
| E 106.0 | 1620 | 5.208E-07 | 2.760E-06 | 400 |
| 110.0 | 6212 | 1.997E-06 | 1.058E-05 | 400 |
| O 114.0 | 10069 | 3.237E-06 | 1.715E-05 | 400 |
| 118.0 | 1067 | 3.430E-07 | 1.818E-06 | 400 |
| 122.0 | 434 | 1.397E-07 | 7.405E-07 | 400 |
| 126.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.834E-04 SEC/SQ.M 9.723E-04 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 58.0 | 8 | 3.683E-09 | 5.892E-09 | 400 |
| 62.0 | 0 | 0. | 0. | 400 |
| 66.0 | 1 | 8.130E-10 | 1.301E-09 | 400 |
| 70.0 | 1 | 6.696E-10 | 1.071E-09 | 400 |
| 74.0 | 97 | 4.314E-08 | 6.902E-08 | 400 |
| M 78.0 | 456 | 2.029E-07 | 3.246E-07 | 400 |
| M 82.0 | 139036 | 6.152E-05 | 9.843E-05 | 400 |
| M 86.0 | 225938 | 9.997E-05 | 1.600E-04 | 400 |
| M 90.0 | 386706 | 1.711E-04 | 2.738E-04 | 400 |
| E 94.0 | 238973 | 1.057E-04 | 1.692E-04 | 400 |
| E 98.0 | 102135 | 4.519E-05 | 7.231E-05 | 400 |
| E 102.0 | 31771 | 1.406E-05 | 2.249E-05 | 400 |
| E 106.0 | 4533 | 2.006E-06 | 3.209E-06 | 400 |
| 110.0 | 728 | 3.224E-07 | 5.159E-07 | 400 |
| O 114.0 | 66 | 2.927E-08 | 4.683E-08 | 400 |
| 118.0 | 63 | 2.831E-08 | 4.530E-08 | 400 |
| 122.0 | 54 | 2.401E-08 | 3.841E-08 | 400 |
| 126.0 | 48 | 2.162E-08 | 3.459E-08 | 400 |
| 130.0 | 29 | 1.301E-08 | 2.081E-08 | 400 |
| 3 134.0 | 123 | 5.462E-08 | 8.739E-08 | 400 |
| 138.0 | 16 | 8.130E-09 | 1.301E-08 | 400 |
| 142.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.397E-02 SEC/SQ.M 2.236E-02 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 85.0 | 0 | 0. | 0. | 800 |
| 88.0 | 12 | 4.178E-09 | 2.214E-08 | 800 |
| 91.0 | 36 | 1.160E-08 | 6.150E-08 | 800 |
| 94.0 | 31 | 1.021E-08 | 5.412E-08 | 800 |
| 97.0 | 137 | 4.410E-08 | 2.337E-07 | 800 |
| 97.1 | 113 | 3.636E-08 | 1.927E-07 | 806 |
| 99.1 | 343 | 1.165E-07 | 5.855E-07 | 809 |
| 101.1 | 1418 | 4.559E-07 | 2.416E-06 | 813 |
| 103.0 | 4019 | 1.292E-06 | 6.848E-06 | 816 |
| 105.0 | 4711 | 1.514E-06 | 8.026E-06 | 820 |
| 106.9 | 6407 | 2.060E-06 | 1.092E-05 | 823 |
| 108.8 | 12828 | 4.124E-06 | 2.186E-05 | 826 |
| 110.7 | 5907 | 1.899E-06 | 1.006E-05 | 829 |
| 112.6 | 13790 | 4.433E-06 | 2.349E-05 | 833 |
| 114.5 | 16552 | 5.321E-06 | 2.820E-05 | 836 |
| 116.4 | 13594 | 4.370E-06 | 2.316E-05 | 839 |
| 118.3 | 8504 | 2.734E-06 | 1.449E-05 | 842 |
| 120.2 | 4850 | 1.559E-06 | 8.263E-06 | 845 |
| 122.1 | 2523 | 8.110E-07 | 4.298E-06 | 848 |
| 124.0 | 0 | 0. | 0. | 851 |

CROSSWIND INTEGRATED= 8.522E-04 SEC/SQ.M 4.517E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 70.0 | 2 | 1.196E-09 | 1.913E-09 | 800 |
| 73.0 | 2 | 9.067E-10 | 1.454E-09 | 800 |
| 76.0 | 14 | 6.217E-09 | 9.946E-09 | 800 |
| 79.0 | 58 | 2.583E-08 | 4.132E-08 | 800 |
| 82.0 | 24106 | 1.067E-05 | 1.707E-05 | 800 |
| 85.0 | 78202 | 3.460E-05 | 5.536E-05 | 800 |
| 88.0 | 112963 | 4.998E-05 | 7.997E-05 | 800 |
| 91.0 | 121653 | 5.383E-05 | 8.613E-05 | 800 |
| 94.0 | 75595 | 3.345E-05 | 5.352E-05 | 800 |
| 97.0 | 86024 | 3.806E-05 | 6.090E-05 | 800 |
| 97.1 | 125226 | 5.541E-05 | 8.866E-05 | 806 |
| 99.1 | 97669 | 4.331E-05 | 6.929E-05 | 809 |
| 101.0 | 116587 | 5.159E-05 | 8.254E-05 | 813 |
| 103.0 | 89230 | 3.948E-05 | 6.317E-05 | 816 |
| 105.0 | 83471 | 3.693E-05 | 5.909E-05 | 820 |
| 106.9 | 62593 | 2.770E-05 | 4.431E-05 | 823 |
| 108.8 | 27790 | 1.230E-05 | 1.967E-05 | 826 |
| 110.7 | 2396 | 1.060E-06 | 1.696E-06 | 829 |
| 112.6 | 540 | 2.393E-07 | 3.829E-07 | 833 |
| 114.5 | 71 | 3.170E-08 | 5.071E-08 | 836 |
| 116.4 | 14 | 6.339E-09 | 1.014E-08 | 839 |
| 118.3 | 3 | 1.585E-09 | 2.536E-09 | 842 |
| 120.2 | 0 | 0. | 0. | 845 |
| 122.1 | 0 | 0. | 0. | 848 |
| 124.0 | 60 | 2.694E-08 | 4.311E-08 | 851 |
| 125.9 | 8 | 3.962E-09 | 6.339E-09 | 854 |
| 127.7 | 13 | 5.864E-09 | 9.382E-09 | 857 |
| 129.5 | 0 | 0. | 0. | 859 |
| 131.4 | 50 | 2.219E-08 | 3.550E-08 | 862 |

CROSSWIND INTEGRATED= 1.520E-02 SEC/SQ.M 2.431E-02 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| X 64.0 | 2 | 7.767E-10 | 4.117E-09 | 1200 |
| X 86.0 | 0 | 0. | 0. | 1200 |
| 88.0 | 12 | 3.884E-09 | 2.058E-08 | 1200 |
| 90.0 | 8 | 2.589E-09 | 1.372E-08 | 1200 |
| E 92.0 | 12 | 4.142E-09 | 2.195E-08 | 1200 |
| E 94.0 | 26 | 8.544E-09 | 4.528E-08 | 1200 |
| 96.0 | 83 | 2.693E-08 | 1.427E-07 | 1200 |
| 98.0 | 325 | 1.046E-07 | 5.544E-07 | 1200 |
| 100.0 | 911 | 2.931E-07 | 1.553E-06 | 1200 |
| 102.0 | 1970 | 6.335E-07 | 3.356E-06 | 1200 |
| 4 104.0 | 3424 | 1.101E-06 | 5.834E-06 | 1200 |
| 106.0 | 6154 | 1.978E-06 | 1.048E-05 | 1200 |
| 8 108.0 | 6432 | 2.068E-06 | 1.096E-05 | 1200 |
| 110.0 | 13756 | 4.423E-06 | 2.344E-05 | 1200 |
| 7 112.0 | 14790 | 4.754E-06 | 2.520E-05 | 1200 |
| 7 114.0 | 20733 | 6.665E-06 | 3.532E-05 | 1200 |
| 9 116.0 | 9492 | 3.051E-06 | 1.617E-05 | 1200 |
| 118.0 | 13515 | 4.344E-06 | 2.303E-05 | 1200 |
| 4 120.0 | 9056 | 2.911E-06 | 1.543E-05 | 1200 |
| 122.0 | 3419 | 1.099E-06 | 5.826E-06 | 1200 |
| 4 124.0 | 153 | 4.945E-08 | 2.621E-07 | 1200 |
| 126.0 | 16 | 5.437E-09 | 2.882E-08 | 1200 |
| D 128.0 | 1 | 5.178E-10 | 2.744E-09 | 1200 |
| 130.0 | 0 | 2.589E-10 | 1.372E-09 | 1200 |
| 133.0 | 0 | 0. | 0. | 1200 |

CROSS-IND INTEGRATED= 1.404E-03 SEC/SQ.M 7.443E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 1 | 4.535E-10 | 7.256E-10 | 1200 |
| 64.0 | 11 | 5.282E-09 | 8.451E-09 | 1200 |
| 66.0 | 22 | 9.816E-09 | 1.571E-08 | 1200 |
| 68.0 | 19 | 8.483E-09 | 1.357E-08 | 1200 |
| 70.0 | 25 | 1.115E-08 | 1.784E-08 | 1200 |
| 72.0 | 34 | 1.542E-08 | 2.467E-08 | 1200 |
| 74.0 | 58 | 2.582E-08 | 4.131E-08 | 1200 |
| 76.0 | 69 | 3.062E-08 | 4.900E-08 | 1200 |
| 78.0 | 96 | 4.263E-08 | 6.820E-08 | 1200 |
| 80.0 | 108 | 4.823E-08 | 7.717E-08 | 1200 |
| 82.0 | 256 | 1.133E-07 | 1.813E-07 | 1200 |
| E 84.0 | 4359 | 1.929E-06 | 3.086E-06 | 1200 |
| E 86.0 | 31502 | 1.394E-05 | 2.230E-05 | 1200 |
| 88.0 | 58160 | 2.573E-05 | 4.116E-05 | 1200 |
| 90.0 | 54525 | 2.413E-05 | 3.860E-05 | 1200 |
| E 92.0 | 63007 | 2.788E-05 | 4.461E-05 | 1200 |
| E 94.0 | 65431 | 2.895E-05 | 4.632E-05 | 1200 |
| 96.0 | 63007 | 2.788E-05 | 4.461E-05 | 1200 |
| 98.0 | 57433 | 2.541E-05 | 4.066E-05 | 1200 |
| 100.0 | 53798 | 2.380E-05 | 3.809E-05 | 1200 |
| 102.0 | 48709 | 2.155E-05 | 3.448E-05 | 1200 |
| 4 104.0 | 32714 | 1.448E-05 | 2.316E-05 | 1200 |
| 106.0 | 26170 | 1.158E-05 | 1.853E-05 | 1200 |
| 8 108.0 | 13810 | 6.111E-06 | 9.778E-06 | 1200 |
| 110.0 | 4554 | 2.015E-06 | 3.224E-06 | 1200 |
| W 112.0 | 1326 | 5.868E-07 | 9.389E-07 | 1200 |
| W 114.0 | 89 | 3.943E-08 | 6.308E-08 | 1200 |
| 9 116.0 | 2 | 1.254E-09 | 2.006E-09 | 1200 |
| 118.0 | 1 | 8.536E-10 | 1.366E-09 | 1200 |
| 4 120.0 | 1 | 6.936E-10 | 1.110E-09 | 1200 |
| 122.0 | 1 | 7.736E-10 | 1.238E-09 | 1200 |
| 4 124.0 | 2 | 1.174E-09 | 1.878E-09 | 1200 |
| 126.0 | 3 | 1.414E-09 | 2.262E-09 | 1200 |
| C 128.0 | 3 | 1.494E-09 | 2.390E-09 | 1200 |

CROSSWIND INTEGRATED= 1.074E-02 SEC/SQ.M 1.718E-02 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 78.0 | 0 | 0. | 0. | 1600 |
| 80.0 | 3 | 1.036E-09 | 5.489E-09 | 1600 |
| 82.0 | 0 | 0. | 0. | 1600 |
| 84.0 | 23 | 7.508E-09 | 3.978E-08 | 1600 |
| 86.0 | 14 | 4.660E-09 | 2.470E-08 | 1600 |
| 88.0 | 12 | 4.142E-09 | 2.195E-08 | 1600 |
| 90.0 | 20 | 6.731E-09 | 3.566E-08 | 1600 |
| 92.0 | 57 | 1.864E-08 | 9.880E-08 | 1600 |
| 93.6 | 51 | 1.642E-08 | 8.705E-08 | 1603 |
| 94.0 | 15 | 4.919E-09 | 2.607E-08 | 1600 |
| 94.6 | 45 | 1.449E-08 | 7.680E-08 | 1604 |
| 95.6 | 51 | 1.642E-08 | 8.705E-08 | 1606 |
| 96.6 | 39 | 1.256E-08 | 6.656E-08 | 1608 |
| 97.6 | 102 | 3.285E-08 | 1.741E-07 | 1610 |
| W 98.6 | 162 | 5.217E-08 | 2.765E-07 | 1611 |
| W 99.6 | 372 | 1.198E-07 | 6.349E-07 | 1613 |
| 100.6 | 474 | 1.526E-07 | 8.090E-07 | 1615 |
| 101.6 | 1220 | 3.927E-07 | 2.079E-06 | 1617 |
| 102.6 | 1286 | 4.135E-07 | 2.191E-06 | 1618 |
| 103.6 | 2783 | 8.946E-07 | 4.741E-06 | 1620 |
| 104.5 | 4552 | 1.495E-06 | 7.926E-06 | 1622 |

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| W 64.0 | 0 | 0. | 0. | 1600 |
| W 66.0 | 5 | 2.321E-09 | 3.713E-09 | 1600 |
| 68.0 | 5 | 2.481E-09 | 3.969E-09 | 1600 |
| 70.0 | 9 | 4.215E-09 | 6.743E-09 | 1600 |
| 72.0 | 25 | 1.142E-08 | 1.827E-08 | 1600 |
| 74.0 | 44 | 1.969E-08 | 3.150E-08 | 1600 |
| 76.0 | 64 | 2.849E-08 | 4.558E-08 | 1600 |
| 78.0 | 107 | 4.770E-08 | 7.631E-08 | 1600 |
| 80.0 | 144 | 6.397E-08 | 1.023E-07 | 1600 |
| 82.0 | 228 | 1.013E-07 | 1.621E-07 | 1600 |
| 84.0 | 512 | 2.270E-07 | 3.631E-07 | 1600 |
| 86.0 | 1702 | 7.535E-07 | 1.206E-06 | 1600 |
| 88.0 | 8112 | 3.590E-06 | 5.743E-06 | 1600 |
| 90.0 | 17443 | 7.718E-06 | 1.235E-05 | 1600 |
| 92.0 | 41193 | 1.823E-05 | 2.916E-05 | 1600 |
| 93.6 | 49379 | 2.185E-05 | 3.496E-05 | 1603 |
| 94.0 | 24713 | 1.094E-05 | 1.750E-05 | 1600 |
| 94.6 | 59637 | 2.639E-05 | 4.222E-05 | 1604 |
| 95.6 | 47948 | 2.122E-05 | 3.395E-05 | 1606 |
| 96.6 | 42938 | 1.900E-05 | 3.040E-05 | 1608 |
| 97.6 | 39359 | 1.742E-05 | 2.787E-05 | 1610 |
| W 98.6 | 33633 | 1.488E-05 | 2.381E-05 | 1611 |
| W 99.6 | 30055 | 1.330E-05 | 2.128E-05 | 1613 |
| 100.6 | 22898 | 1.013E-05 | 1.621E-05 | 1615 |
| 101.6 | 34349 | 1.520E-05 | 2.432E-05 | 1617 |
| 102.6 | 31486 | 1.393E-05 | 2.229E-05 | 1618 |
| 103.6 | 28624 | 1.267E-05 | 2.026E-05 | 1620 |
| 104.5 | 24329 | 1.077E-05 | 1.722E-05 | 1622 |



U64 1202751

| | | | | |
|---|---|---|---|---|
| 105.5 | 5666 | 1.886E-06 | 9.995E-06 | 1623 |
| 106.5 | 6350 | 2.041E-06 | 1.082E-05 | 1625 |
| 107.5 | 8159 | 2.623E-06 | 1.390E-05 | 1627 |
| 108.5 | 4685 | 1.506E-06 | 7.983E-06 | 1628 |
| 109.5 | 10657 | 3.426E-06 | 1.816E-05 | 1630 |
| 110.4 | 5037 | 1.619E-06 | 8.582E-06 | 1632 |
| 111.4 | 9275 | 2.981E-06 | 1.580E-05 | 1633 |
| 112.4 | 11712 | 3.765E-06 | 1.995E-05 | 1635 |
| 113.4 | 12989 | 4.175E-06 | 2.213E-05 | 1637 |
| 114.4 | 12959 | 4.166E-06 | 2.208E-05 | 1638 |
| 115.3 | 11484 | 3.691E-06 | 1.956E-05 | 1640 |
| 116.3 | 14285 | 4.592E-06 | 2.434E-05 | 1641 |
| 117.3 | 9978 | 3.207E-06 | 1.700E-05 | 1643 |
| 118.2 | 14243 | 4.578E-06 | 2.427E-05 | 1644 |
| 119.2 | 9924 | 3.190E-06 | 1.691E-05 | 1646 |
| 120.2 | 7189 | 2.311E-06 | 1.225E-05 | 1647 |
| 121.2 | 15376 | 4.943E-06 | 2.620E-05 | 1649 |
| 122.1 | 12139 | 3.902E-06 | 2.055E-05 | 1550 |
| 123.1 | 2780 | 8.936E-07 | 4.736E-06 | 1652 |
| 124.1 | 1325 | 4.260E-07 | 2.258E-06 | 1653 |
| 125.0 | 333 | 1.072E-07 | 5.684E-07 | 1655 |
| 126.0 | 174 | 5.603E-08 | 2.970E-07 | 1656 |
| W 126.9 | 36 | 1.159E-08 | 6.144E-08 | 1658 |

CROSSWIND INTEGRATED= 1.777E-03 SEC/SQ.M  9.419E-03 1/M

TEST 064 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2CM
2200M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 2CM

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| D 76.0 | 0 | 0. | 0. | 2200 |
| 4 78.0 | 3 | 1.210E-09 | 6.415E-09 | 2200 |
| H 80.0 | 0 | 0. | 0. | 2200 |
| K 82.0 | 0 | 0. | 0. | 2200 |
| L 84.0 | 0 | 2.690E-10 | 1.425E-09 | 2200 |
| 9 86.0 | 0 | 0. | 0. | 2200 |
| D 88.0 | 0 | 0. | 0. | 2200 |
| 90.0 | 3 | 1.210E-09 | 6.415E-09 | 2200 |
| 6 92.0 | 0 | 2.690E-10 | 1.425E-09 | 2200 |
| F 94.0 | 4 | 1.345E-09 | 7.127E-09 | 2200 |
| E 96.0 | 11 | 3.631E-09 | 1.924E-08 | 2200 |
| E 98.0 | 41 | 1.318E-08 | 6.985E-08 | 2200 |
| 100.0 | 177 | 5.702E-08 | 3.022E-07 | 2200 |
| F 102.0 | 141 | 4.545E-08 | 2.409E-07 | 2200 |
| 104.0 | 161 | 5.204E-08 | 2.758E-07 | 2200 |
| E 106.0 | 746 | 2.399E-07 | 1.272E-06 | 2200 |
| 108.0 | 3194 | 1.027E-06 | 5.443E-06 | 2200 |
| P 110.0 | 15735 | 5.058E-06 | 2.681E-05 | 2200 |
| 112.0 | 4714 | 1.515E-06 | 8.031E-06 | 2200 |
| 114.0 | 1940 | 6.237E-07 | 3.306E-06 | 2200 |
| 116.0 | 2031 | 6.530E-07 | 3.461E-06 | 2200 |
| 118.0 | 1676 | 5.390E-07 | 2.857E-06 | 2200 |
| 120.0 | 945 | 3.038E-07 | 1.610E-06 | 2200 |
| S 122.0 | 809 | 2.604E-07 | 1.380E-06 | 2200 |
| F 124.0 | 264 | 8.513E-08 | 4.512E-07 | 2200 |
| S 126.0 | 116 | 3.739E-08 | 1.981E-07 | 2200 |
| 128.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 8.077E-04 SEC/SQ.M  4.281E-03 1/M

| | | | | |
|---|---|---|---|---|
| 105.5 | 25045 | 1.108E-05 | 1.773E-05 | 1623 |
| 106.5 | 20333 | 8.997E-06 | 1.440E-05 | 1625 |
| 107.5 | 16860 | 7.461E-06 | 1.194E-05 | 1627 |
| 108.5 | 12396 | 5.465E-06 | 8.776E-06 | 1628 |
| 109.5 | 9073 | 4.015E-06 | 6.423E-06 | 1630 |
| 110.4 | 4608 | 2.039E-06 | 3.263E-06 | 1632 |
| 111.4 | 2971 | 1.315E-06 | 2.104E-06 | 1633 |
| 112.4 | 1861 | 8.238E-07 | 1.318E-06 | 1635 |
| 113.4 | 609 | 2.699E-07 | 4.318E-07 | 1637 |
| 114.4 | 470 | 2.082E-07 | 3.331E-07 | 1638 |
| 115.3 | 172 | 7.651E-08 | 1.224E-07 | 1640 |
| 116.3 | 26 | 1.191E-08 | 1.906E-08 | 1641 |
| 117.3 | 9 | 4.390E-09 | 7.023E-09 | 1643 |
| 118.2 | 0 | 9.406E-11 | 1.505E-10 | 1644 |
| 119.2 | 0 | 0. | 0. | 1646 |
| 120.2 | 3 | 1.568E-09 | 2.508E-09 | 1647 |
| 121.2 | 0 | 0. | 0. | 1649 |

CROSSWIND INTEGRATED= 8.298E-03 SEC/SQ.M  1.328E-02 1/M

TEST 064 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 2 72.0 | 4 | 2.078E-09 | 3.325E-09 | 2200 |
| 9 74.0 | 7 | 3.325E-09 | 5.321E-09 | 2200 |
| E 76.0 | 13 | 5.819E-09 | 9.311E-09 | 2200 |
| 4 78.0 | 23 | 1.039E-08 | 1.663E-08 | 2200 |
| 5 80.0 | 41 | 1.829E-08 | 2.926E-08 | 2200 |
| C 82.0 | 48 | 2.148E-08 | 3.436E-08 | 2200 |
| O 84.0 | 16 | 7.344E-09 | 1.175E-08 | 2200 |
| 9 86.0 | 56 | 2.494E-08 | 3.990E-08 | 2200 |
| H 88.0 | 22 | 9.976E-09 | 1.596E-08 | 2200 |
| 3 90.0 | 258 | 1.143E-07 | 1.829E-07 | 2200 |
| 6 92.0 | 646 | 2.860E-07 | 4.576E-07 | 2200 |
| O 94.0 | 3031 | 1.341E-06 | 2.146E-06 | 2200 |
| L 96.0 | 5660 | 2.504E-06 | 4.007E-06 | 2200 |
| U 98.0 | 5471 | 2.421E-06 | 3.873E-06 | 2200 |
| 100.0 | 16989 | 7.518E-06 | 1.203E-05 | 2200 |
| J 102.0 | 9625 | 4.259E-06 | 6.814E-06 | 2200 |
| 104.0 | 4778 | 2.115E-06 | 3.383E-06 | 2200 |
| U 106.0 | 5471 | 2.421E-06 | 3.873E-06 | 2200 |
| 3 108.0 | 4454 | 1.971E-06 | 3.154E-06 | 2200 |
| C 110.0 | 2757 | 1.220E-06 | 1.952E-06 | 2200 |
| 112.0 | 1902 | 8.417E-07 | 1.347E-06 | 2200 |
| 114.0 | 784 | 3.471E-07 | 5.553E-07 | 2200 |
| 116.0 | 95 | 4.226E-08 | 6.762E-08 | 2200 |
| 7 118.0 | 23 | 1.039E-08 | 1.663E-08 | 2200 |
| 0 120.0 | 10 | 4.711E-09 | 7.538E-09 | 2200 |

CROSSWIND INTEGRATED= 2.113E-03 SEC/SQ.M  3.381E-03 1/M



1202752

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 89.8 | 0 | 0. | 0. | 3200 |
| 90.8 | 5 | 1.835E-09 | 9.726E-09 | 3199 |
| 91.4 | 8 | 2.753E-09 | 1.459E-08 | 3201 |
| 92.6 | 12 | 4.129E-09 | 2.188E-08 | 3203 |
| 93.8 | 14 | 4.588E-09 | 2.431E-08 | 3205 |
| 94.8 | 17 | 5.505E-09 | 2.918E-08 | 3206 |
| 95.8 | 35 | 1.147E-08 | 6.076E-08 | 3208 |
| 96.8 | 39 | 1.285E-08 | 6.808E-08 | 3210 |
| 97.8 | 5 | 1.835E-09 | 9.726E-09 | 3212 |
| 98.8 | 42 | 1.376E-08 | 7.294E-08 | 3213 |
| 99.8 | 45 | 1.468E-08 | 7.780E-08 | 3215 |
| 100.8 | 44 | 1.422E-08 | 7.537E-08 | 3217 |
| 101.8 | 128 | 4.129E-08 | 2.188E-07 | 3218 |
| 102.8 | 42 | 1.376E-08 | 7.294E-08 | 3220 |
| 103.8 | 65 | 2.110E-08 | 1.118E-07 | 3222 |
| 104.8 | 174 | 5.597E-08 | 2.966E-07 | 3224 |
| 105.8 | 101 | 3.257E-08 | 1.726E-07 | 3225 |
| 106.8 | 218 | 7.019E-08 | 3.720E-07 | 3227 |
| 107.8 | 164 | 5.275E-08 | 2.795E-07 | 3229 |
| 108.8 | 128 | 4.129E-08 | 2.188E-07 | 3230 |
| 109.7 | 292 | 9.404E-08 | 4.984E-07 | 3232 |
| 110.7 | 525 | 1.688E-07 | 8.948E-07 | 3233 |
| 111.7 | 703 | 2.262E-07 | 1.199E-06 | 3235 |
| 112.7 | 4584 | 1.474E-06 | 7.810E-06 | 3237 |
| 113.7 | 9917 | 3.188E-06 | 1.690E-05 | 3238 |
| 114.6 | 4001 | 1.286E-06 | 6.816E-06 | 3240 |
| 115.6 | 6744 | 2.168E-06 | 1.149E-05 | 3241 |
| 116.6 | 8002 | 2.572E-06 | 1.363E-05 | 3243 |
| 117.6 | 4226 | 1.359E-06 | 7.204E-06 | 3245 |
| 118.6 | 2477 | 7.964E-07 | 4.221E-06 | 3246 |
| 119.5 | 1975 | 6.354E-07 | 3.367E-06 | 3248 |
| 120.5 | 3309 | 1.064E-06 | 5.638E-06 | 3249 |
| 121.5 | 3570 | 1.148E-06 | 6.083E-06 | 3251 |
| 122.4 | 4841 | 1.556E-06 | 8.247E-06 | 3252 |
| 123.4 | 4247 | 1.365E-06 | 7.236E-06 | 3253 |
| 124.4 | 7722 | 2.482E-06 | 1.316E-05 | 3255 |
| 125.4 | 8981 | 2.887E-06 | 1.530E-05 | 3256 |
| 126.3 | 7101 | 2.283E-06 | 1.210E-05 | 3258 |
| 127.3 | 5533 | 1.779E-06 | 9.427E-06 | 3259 |
| 128.3 | 2531 | 8.138E-07 | 4.313E-06 | 3261 |
| 129.3 | 1104 | 3.551E-07 | 1.882E-06 | 3262 |
| 130.3 | 261 | 8.395E-08 | 4.449E-07 | 3263 |
| 131.2 | 0 | 0. | 0. | 3264 |

CROSSWIND INTEGRATED= 1.672E-03 SEC/SQ.M 8.864E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.8 | 0 | 0. | 0. | 3200 |
| 77.8 | 2 | 1.276E-09 | 2.042E-09 | 3177 |
| 78.8 | 7 | 3.214E-09 | 5.143E-09 | 3179 |
| 79.8 | 9 | 4.349E-09 | 6.958E-09 | 3180 |
| 80.8 | 9 | 4.065E-09 | 6.504E-09 | 3182 |
| 81.8 | 13 | 6.050E-09 | 9.680E-09 | 3184 |
| 82.8 | 13 | 6.050E-09 | 9.680E-09 | 3185 |
| 83.8 | 15 | 6.759E-09 | 1.081E-08 | 3187 |
| 84.8 | 23 | 1.059E-08 | 1.694E-08 | 3189 |
| 85.8 | 29 | 1.295E-08 | 2.072E-08 | 3191 |
| 86.8 | 27 | 1.201E-08 | 1.921E-08 | 3192 |
| 87.8 | 23 | 1.059E-08 | 1.694E-08 | 3194 |
| 88.8 | 32 | 1.437E-08 | 2.299E-08 | 3196 |
| 89.8 | 45 | 2.004E-08 | 3.207E-08 | 3198 |
| 90.8 | 64 | 2.855E-08 | 4.568E-08 | 3199 |
| 91.8 | 88 | 3.895E-08 | 6.232E-08 | 3201 |
| 92.8 | 61 | 2.713E-08 | 4.341E-08 | 3203 |
| 93.8 | 123 | 5.455E-08 | 8.727E-08 | 3205 |
| 94.8 | 126 | 5.596E-08 | 8.954E-08 | 3206 |
| 95.8 | 97 | 4.320E-08 | 6.912E-08 | 3208 |
| 96.8 | 213 | 9.425E-08 | 1.508E-07 | 3210 |
| 97.8 | 209 | 9.283E-08 | 1.485E-07 | 3212 |
| 98.8 | 340 | 1.505E-07 | 2.408E-07 | 3213 |
| 99.8 | 476 | 2.107E-07 | 3.371E-07 | 3215 |
| 100.8 | 648 | 2.871E-07 | 4.594E-07 | 3217 |
| 101.8 | 895 | 3.963E-07 | 6.341E-07 | 3218 |
| 102.8 | 1254 | 5.551E-07 | 8.882E-07 | 3220 |
| 103.8 | 2084 | 9.224E-07 | 1.476E-06 | 3222 |
| 104.8 | 2824 | 1.250E-06 | 2.000E-06 | 3224 |
| 105.8 | 2353 | 1.041E-06 | 1.666E-06 | 3225 |
| 106.8 | 3632 | 1.607E-06 | 2.572E-06 | 3227 |
| 107.8 | 4238 | 1.875E-06 | 3.000E-06 | 3229 |
| 108.8 | 4372 | 1.935E-06 | 3.096E-06 | 3230 |
| 109.7 | 5606 | 2.481E-06 | 3.969E-06 | 3232 |
| 110.7 | 2386 | 1.056E-06 | 1.690E-06 | 3233 |
| 111.7 | 5180 | 2.292E-06 | 3.667E-06 | 3235 |
| 112.7 | 8971 | 3.970E-06 | 6.351E-06 | 3237 |
| 113.7 | 10766 | 4.764E-06 | 7.622E-06 | 3238 |
| 114.6 | 4911 | 2.173E-06 | 3.477E-06 | 3240 |
| 115.6 | 4238 | 1.875E-06 | 3.000E-06 | 3241 |
| 116.6 | 1254 | 5.551E-07 | 8.882E-07 | 3243 |
| 117.6 | 425 | 1.883E-07 | 3.013E-07 | 3245 |
| 118.6 | 248 | 1.098E-07 | 1.758E-07 | 3246 |
| 119.5 | 219 | 9.709E-08 | 1.553E-07 | 3248 |
| 120.5 | 414 | 1.836E-07 | 2.937E-07 | 3249 |
| 121.5 | 297 | 1.316E-07 | 2.105E-07 | 3251 |
| 122.4 | 78 | 3.469E-08 | 5.551E-08 | 3252 |
| 123.4 | 15 | 6.901E-09 | 1.104E-08 | 3253 |
| 124.4 | 16 | 7.185E-09 | 1.150E-08 | 3255 |
| 125.4 | 15 | 7.043E-09 | 1.127E-08 | 3256 |
| 126.3 | 7 | 3.498E-09 | 5.596E-09 | 3258 |
| 127.3 | 9 | 4.685E-09 | 6.504E-09 | 3259 |
| 128.3 | 5 | 2.505E-09 | 4.008E-09 | 3261 |

CROSSWIND INTEGRATED= 1.700E-03 SEC/SQ.M 2.720E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 | 86.0 | 0 | 0. | 0. | 4610 |
| | 88.0 | 1 | 5.379E-10 | 2.851E-09 | 4610 |
| | 90.0 | 2 | 8.069E-10 | 4.276E-09 | 4510 |
| | 92.0 | 2 | 8.069E-10 | 4.276E-09 | 4620 |
| | 94.0 | 2 | 6.724E-10 | 3.564E-09 | 4620 |
| | 96.0 | 3 | 1.076E-09 | 5.702E-09 | 4620 |
| | 98.0 | 5 | 1.883E-09 | 9.978E-09 | 4660 |
| | 100.0 | 6 | 2.152E-09 | 1.140E-08 | 4690 |
| | 102.0 | 28 | 9.279E-09 | 4.918E-08 | 4710 |
| | 104.0 | 22 | 7.127E-09 | 3.778E-08 | 4770 |
| | 106.0 | 37 | 1.210E-08 | 6.415E-08 | 4810 |
| | 108.0 | 35 | 1.157E-08 | 6.130E-08 | 4870 |
| | 110.0 | 32 | 1.049E-08 | 5.559E-08 | 4920 |
| | 112.0 | 26 | 8.607E-09 | 4.562E-08 | 4990 |
| | 114.0 | 30 | 9.817E-09 | 5.203E-08 | 5080 |
| | 116.0 | 76 | 2.474E-08 | 1.311E-07 | 5020 |
| | 118.0 | 134 | 4.317E-08 | 2.288E-07 | 5100 |
| | 120.0 | 200 | 6.442E-08 | 3.414E-07 | 5130 |
| | 122.0 | 791 | 2.544E-07 | 1.349E-06 | 4830 |
| 6 | 124.0 | 2324 | 7.472E-07 | 3.960E-06 | 4660 |
| | 126.0 | 1881 | 6.049E-07 | 3.206E-06 | 4770 |
| 5 | 128.0 | 8799 | 2.828E-06 | 1.499E-05 | 4900 |
| E | 130.0 | 2383 | 7.661E-07 | 4.061E-06 | 4970 |
| 6 | 132.0 | 645 | 2.076E-07 | 1.100E-06 | 4980 |
| 5 | 134.0 | 20 | 6.455E-09 | 3.421E-08 | 4990 |
| 4 | 136.0 | 0 | 0. | 0. | 5000 |

CROSSWIND INTEGRATED= 9.557E-04 SEC/SQ.M 5.065E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 5.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 90.0 | 0 | 0. | 0. | 6500 |
| | 92.0 | 1 | 5.379E-10 | 2.851E-09 | 6490 |
| | 94.0 | 17 | 5.514E-09 | 2.922E-08 | 6500 |
| | 96.0 | 6 | 2.017E-09 | 1.069E-08 | 6510 |
| 4 | 98.0 | 0 | 0. | 0. | 6520 |
| 4 | 100.0 | 0 | 0. | 0. | 6560 |
| | 102.0 | 19 | 6.186E-09 | 3.279E-08 | 6610 |
| 5 | 104.0 | 35 | 1.130E-08 | 5.987E-08 | 6650 |
| 5 | 106.0 | 24 | 7.934E-09 | 4.205E-08 | 6720 |
| | 108.0 | 53 | 1.721E-08 | 9.123E-08 | 6800 |
| 6 | 110.0 | 31 | 1.022E-08 | 5.417E-08 | 7000 |
| E | 112.0 | 32 | 1.049E-08 | 5.559E-08 | 7300 |
| 5 | 114.0 | 35 | 1.143E-08 | 6.058E-08 | 7210 |
| 5 | 116.0 | 19 | 6.186E-09 | 3.279E-08 | 7220 |
| | 118.0 | 28 | 9.145E-09 | 4.847E-08 | 7190 |
| Z | 120.0 | 53 | 1.721E-08 | 9.123E-08 | 7150 |
| E | 122.0 | 186 | 5.998E-08 | 3.179E-07 | 7120 |
| E | 124.0 | 680 | 2.188E-07 | 1.160E-06 | 7100 |
| 4 | 126.0 | 3477 | 1.118E-06 | 5.924E-06 | 7100 |
| 5 | 128.0 | 10565 | 3.396E-06 | 1.800E-05 | 7100 |
| 4 | 130.0 | 9550 | 3.070E-06 | 1.627E-05 | 7130 |
| E | 132.0 | 3488 | 1.121E-06 | 5.943E-06 | 7150 |
| E | 134.0 | 907 | 2.918E-07 | 1.547E-06 | 7200 |
| E | 136.0 | 399 | 1.284E-07 | 6.807E-07 | 7250 |
| A | 138.0 | 114 | 3.671E-08 | 1.945E-07 | 7300 |
| 0 | 140.0 | 51 | 1.641E-08 | 8.696E-08 | 7350 |
| 0 | 142.0 | 13 | 4.438E-09 | 2.352E-08 | 7250 |
| 0 | 144.0 | 0 | 0. | 0. | 7110 |
| | 146.0 | 51 | 1.641E-08 | 8.696E-08 | 7100 |

CROSSWIND INTEGRATED= 2.384E-03 SEC/SQ.M 1.264E-02 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 2 | 82.0 | 1 | 4.850E-10 | 7.759E-10 | 4630 |
| 3 | 84.0 | 3 | 1.399E-09 | 2.239E-09 | 4620 |
| 0 | 86.0 | 0 | 2.355E-10 | 3.769E-10 | 4610 |
| 2 | 88.0 | 9 | 4.420E-09 | 7.072E-09 | 4610 |
| 1 | 90.0 | 12 | 5.528E-09 | 8.846E-09 | 4610 |
| 1 | 92.0 | 27 | 1.204E-08 | 1.927E-08 | 4620 |
| 3 | 94.0 | 35 | 1.578E-08 | 2.525E-08 | 4620 |
| 2 | 96.0 | 15 | 7.053E-09 | 1.128E-08 | 4620 |
| 3 | 98.0 | 30 | 1.329E-08 | 2.126E-08 | 4660 |
| 2 | 100.0 | 63 | 2.796E-08 | 4.474E-08 | 4690 |
| 1 | 102.0 | 92 | 4.105E-08 | 6.569E-08 | 4710 |
| 1 | 104.0 | 175 | 7.772E-08 | 1.243E-07 | 4770 |
| 3 | 106.0 | 300 | 1.330E-07 | 2.128E-07 | 4810 |
| 2 | 108.0 | 261 | 1.155E-07 | 1.849E-07 | 4870 |
| 2 | 110.0 | 379 | 1.679E-07 | 2.687E-07 | 4920 |
| 2 | 112.0 | 688 | 3.047E-07 | 4.875E-07 | 4990 |
| 2 | 114.0 | 747 | 3.309E-07 | 5.294E-07 | 5080 |
| 1 | 116.0 | 826 | 3.658E-07 | 5.853E-07 | 5020 |
| 1 | 118.0 | 1260 | 5.578E-07 | 8.925E-07 | 5100 |
| 1 | 120.0 | 1773 | 7.848E-07 | 1.256E-06 | 5130 |
| 3 | 122.0 | 1359 | 6.015E-07 | 9.624E-07 | 4830 |
| 6 | 124.0 | 333 | 1.476E-07 | 2.361E-07 | 4660 |
| 2 | 126.0 | 379 | 1.679E-07 | 2.687E-07 | 4770 |
| P | 128.0 | 708 | 3.134E-07 | 5.014E-07 | 4900 |
| C | 130.0 | 86 | 3.844E-08 | 6.150E-08 | 4970 |
| 6 | 132.0 | 10 | 4.741E-09 | 7.586E-09 | 4980 |
| 5 | 134.0 | 0 | 0. | 0. | 4990 |

CROSSWIND INTEGRATED= 7.349E-04 SEC/SQ.M 1.176E-03 1/M

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 1.6 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 1 | 84.0 | 0 | 0. | 0. | 6500 |
| 4 | 86.0 | 3 | 1.663E-09 | 2.660E-09 | 6500 |
| 5 | 88.0 | 5 | 2.411E-09 | 3.857E-09 | 6480 |
| 1 | 90.0 | 4 | 2.162E-09 | 3.458E-09 | 6500 |
| 4 | 92.0 | 11 | 5.265E-09 | 8.424E-09 | 6490 |
| 1 | 94.0 | 16 | 7.482E-09 | 1.197E-08 | 6500 |
| 1 | 96.0 | 36 | 1.621E-08 | 2.594E-08 | 6510 |
| 4 | 98.0 | 50 | 2.245E-08 | 3.591E-08 | 6520 |
| 4 | 100.0 | 74 | 3.276E-08 | 5.241E-08 | 6560 |
| 2 | 102.0 | 66 | 2.926E-08 | 4.682E-08 | 6610 |
| 1 | 104.0 | 70 | 3.101E-08 | 4.962E-08 | 6650 |
| T | 106.0 | 85 | 3.799E-08 | 6.079E-08 | 6720 |
| 3 | 108.0 | 125 | 5.545E-08 | 8.872E-08 | 6800 |
| 6 | 110.0 | 189 | 8.397E-08 | 1.343E-07 | 7000 |
| 0 | 112.0 | 129 | 5.720E-08 | 9.152E-08 | 7300 |
| 5 | 114.0 | 222 | 9.852E-08 | 1.576E-07 | 7210 |
| 5 | 116.0 | 380 | 1.683E-07 | 2.694E-07 | 7220 |
| 3 | 118.0 | 387 | 1.713E-07 | 2.740E-07 | 7190 |
| 2 | 120.0 | 367 | 1.625E-07 | 2.600E-07 | 7150 |
| 0 | 122.0 | 847 | 3.749E-07 | 5.999E-07 | 7120 |
| 0 | 124.0 | 985 | 4.360E-07 | 6.977E-07 | 7100 |
| 4 | 126.0 | 2563 | 1.134E-06 | 1.815E-06 | 7100 |
| 5 | 128.0 | 1971 | 8.725E-07 | 1.396E-06 | 7100 |
| 4 | 130.0 | 1380 | 6.108E-07 | 9.770E-07 | 7130 |
| 0 | 132.0 | 43 | 1.937E-08 | 3.099E-08 | 7150 |
| 0 | 134.0 | 93 | 4.148E-08 | 6.638E-08 | 7200 |
| 0 | 136.0 | 11 | 5.265E-09 | 8.424E-09 | 7250 |
| E | 138.0 | 17 | 7.621E-09 | 1.219E-08 | 7300 |
| 0 | 140.0 | 14 | 6.374E-09 | 1.020E-08 | 7350 |
| 0 | 142.0 | 6 | 2.910E-09 | 4.656E-09 | 7250 |
| 0 | 144.0 | 0 | 3.603E-10 | 5.764E-10 | 7110 |
| 4 | 146.0 | 2 | 9.561E-10 | 1.530E-09 | 7100 |

CROSSWIND INTEGRATED= 1.114E-03 SEC/SQ.M 1.783E-03 1/M



1202754

U64

SAMPLING 400M TO 12800M, NO TOWER SAMPLING.
BIMODAL DISTRIBUTION FOR BOTH TRACERS.
TRACER DISTRIBUTIONS TRUNCATED ON NORTH EDGE BEYOND 2200M ARC.

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 58.0 | 0 | 0. | 0. | 400 |
| | 62.0 | 2417 | 7.850E-07 | 4.317E-06 | 400 |
| | 66.0 | 6561 | 2.130E-06 | 1.172E-05 | 400 |
| | 70.0 | 19885 | 6.456E-06 | 3.551E-05 | 400 |
| | 74.0 | 10295 | 3.343E-06 | 1.838E-05 | 400 |
| X | 78.0 | 530 | 1.724E-07 | 9.480E-07 | 400 |
| X | 82.0 | 1197 | 3.889E-07 | 2.139E-06 | 400 |
| X | 86.0 | 7022 | 2.280E-06 | 1.254E-05 | 400 |
| X | 90.0 | 13563 | 4.404E-06 | 2.422E-05 | 400 |
| | 94.0 | 7331 | 2.380E-06 | 1.309E-05 | 400 |
| | 98.0 | 1276 | 4.144E-07 | 2.279E-06 | 400 |
| | 102.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 6.354E-04 SEC/SQ.M 3.495E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 46.0 | 77 | 2.315E-08 | 6.946E-08 | 400 |
| | 50.0 | 54 | 1.634E-08 | 4.903E-08 | 400 |
| | 54.0 | 187 | 5.623E-08 | 1.687E-07 | 400 |
| | 58.0 | 22914 | 6.875E-06 | 2.063E-05 | 400 |
| | 62.0 | 86891 | 2.607E-05 | 7.821E-05 | 400 |
| | 66.0 | 102099 | 3.063E-05 | 9.190E-05 | 400 |
| | 70.0 | 97754 | 2.933E-05 | 8.799E-05 | 400 |
| | 74.0 | 34533 | 1.036E-05 | 3.108E-05 | 400 |
| X | 78.0 | 2168 | 6.507E-07 | 1.952E-06 | 400 |
| X | 82.0 | 22801 | 6.841E-06 | 2.052E-05 | 400 |
| X | 86.0 | 49958 | 1.499E-05 | 4.497E-05 | 400 |
| X | 90.0 | 56475 | 1.694E-05 | 5.083E-05 | 400 |
| | 94.0 | 31274 | 9.383E-06 | 2.815E-05 | 400 |
| | 98.0 | 715 | 2.148E-07 | 6.444E-07 | 400 |
| | 102.0 | 27 | 8.237E-09 | 2.471E-08 | 400 |

CROSSWIND INTEGRATED= 4.256E-03 SEC/SQ.M 1.277E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 52.0 | 4 | 1.340E-09 | 7.366E-09 | 800 |
| | 55.0 | 0 | 0. | 0. | 800 |
| | 58.0 | 0 | 0. | 0. | 800 |
| | 61.0 | 409 | 1.331E-07 | 7.319E-07 | 800 |
| | 64.0 | 6151 | 1.997E-06 | 1.099E-05 | 800 |
| | 67.0 | 20269 | 6.581E-06 | 3.620E-05 | 800 |
| | 70.0 | 34253 | 1.112E-05 | 6.117E-05 | 800 |
| | 73.0 | 33740 | 1.095E-05 | 6.025E-05 | 800 |
| | 76.0 | 8165 | 2.651E-06 | 1.458E-05 | 800 |
| | 79.0 | 4297 | 1.395E-06 | 7.675E-06 | 800 |
| | 82.0 | 10357 | 3.363E-06 | 1.850E-05 | 800 |
| | 85.0 | 16828 | 5.464E-06 | 3.005E-05 | 800 |
| | 88.0 | 32939 | 1.069E-05 | 5.882E-05 | 800 |
| | 91.0 | 35844 | 1.164E-05 | 6.401E-05 | 800 |
| | 94.0 | 13263 | 4.306E-06 | 2.368E-05 | 800 |
| | 97.0 | 6737 | 2.188E-06 | 1.203E-05 | 800 |
| | 97.1 | 10163 | 3.300E-06 | 1.815E-05 | 806 |
| | 99.1 | 2068 | 6.717E-07 | 3.694E-06 | 809 |
| | 101.1 | 592 | 1.924E-07 | 1.058E-06 | 813 |
| | 103.0 | 3 | 1.195E-09 | 6.573E-09 | 816 |

CROSSWIND INTEGRATED= 3.065E-03 SEC/SQ.M 1.686E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 49.0 | 13 | 3.956E-09 | 1.187E-08 | 800 |
| | 52.0 | 103 | 3.091E-08 | 9.272E-08 | 800 |
| | 55.0 | 1130 | 3.393E-07 | 1.018E-06 | 800 |
| | 58.0 | 3196 | 9.590E-07 | 2.877E-06 | 800 |
| | 61.0 | 18008 | 5.403E-06 | 1.621E-05 | 800 |
| | 64.0 | 56482 | 1.695E-05 | 5.084E-05 | 800 |
| | 67.0 | 60927 | 1.828E-05 | 5.475E-05 | 800 |
| | 70.0 | 56482 | 1.695E-05 | 5.084E-05 | 800 |
| | 73.0 | 31932 | 9.581E-06 | 2.874E-05 | 800 |
| | 76.0 | 11131 | 3.340E-06 | 1.002E-05 | 800 |
| | 79.0 | 14406 | 4.322E-06 | 1.297E-05 | 800 |
| | 82.0 | 33235 | 9.972E-06 | 2.992E-05 | 800 |
| | 85.0 | 62999 | 1.890E-05 | 5.671E-05 | 800 |
| | 88.0 | 97760 | 2.933E-05 | 8.799E-05 | 800 |
| | 91.0 | 65172 | 1.955E-05 | 5.866E-05 | 800 |
| | 94.0 | 10437 | 3.131E-06 | 9.394E-06 | 800 |
| | 97.0 | 1562 | 4.687E-07 | 1.406E-06 | 800 |
| | 97.1 | 1073 | 3.221E-07 | 9.662E-07 | 806 |
| | 99.1 | 25 | 7.705E-09 | 2.312E-08 | 809 |
| | 101.1 | 5 | 1.719E-09 | 5.158E-09 | 813 |

CROSSWIND INTEGRATED= 6.592E-03 SEC/SQ.M 1.978E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 48.0 | 1 | 4.981E-10 | 2.740E-09 | 1200 |
| 50.0 | 1 | 4.981E-10 | 2.740E-09 | 1200 |
| 52.0 | 1 | 4.981E-10 | 2.740E-09 | 1200 |
| 54.0 | 3 | 9.962E-10 | 5.479E-09 | 1200 |
| 56.0 | 30 | 9.962E-09 | 5.479E-08 | 1200 |
| 58.0 | 164 | 5.330E-08 | 2.931E-07 | 1200 |
| 60.0 | 704 | 2.289E-07 | 1.259E-06 | 1200 |
| 62.0 | 2366 | 7.683E-07 | 4.226E-06 | 1200 |
| 64.0 | 6076 | 1.973E-06 | 1.085E-05 | 1200 |
| 66.0 | 10776 | 3.499E-06 | 1.924E-05 | 1200 |
| 68.0 | 16468 | 5.347E-06 | 2.941E-05 | 1200 |
| 70.0 | 18865 | 6.125E-06 | 3.369E-05 | 1200 |
| 72.0 | 18417 | 5.980E-06 | 3.289E-05 | 1200 |
| 74.0 | 9941 | 3.228E-06 | 1.775E-05 | 1200 |
| 76.0 | 5406 | 1.755E-06 | 9.654E-06 | 1200 |
| 78.0 | 5193 | 1.686E-06 | 9.274E-06 | 1200 |
| 80.0 | 3461 | 1.124E-06 | 6.182E-06 | 1200 |
| 82.0 | 4963 | 1.612E-06 | 8.864E-06 | 1200 |
| 84.0 | 6991 | 2.270E-06 | 1.248E-05 | 1200 |
| 86.0 | 16451 | 5.341E-06 | 2.938E-05 | 1200 |
| 88.0 | 26969 | 8.756E-06 | 4.816E-05 | 1200 |
| 90.0 | 28418 | 9.227E-06 | 5.075E-05 | 1200 |
| 92.0 | 19250 | 6.250E-06 | 3.438E-05 | 1200 |
| 94.0 | 10959 | 3.558E-06 | 1.957E-05 | 1200 |
| 96.0 | 2512 | 8.159E-07 | 4.487E-06 | 1200 |
| 98.0 | 780 | 2.535E-07 | 1.394E-06 | 1200 |
| 100.0 | 108 | 3.512E-08 | 1.931E-07 | 1200 |
| 102.0 | 1 | 4.981E-10 | 2.740E-09 | 1200 |
| 104.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.928E-03 SEC/SQ.M 1.610E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 48.0 | 29 | 8.863E-09 | 2.659E-08 | 1200 |
| 50.0 | 195 | 5.860E-08 | 1.758E-07 | 1200 |
| 52.0 | 945 | 2.838E-07 | 8.514E-07 | 1200 |
| 54.0 | 1097 | 3.294E-07 | 9.881E-07 | 1200 |
| 56.0 | 1629 | 4.889E-07 | 1.467E-06 | 1200 |
| 58.0 | 2908 | 8.725E-07 | 2.618E-06 | 1200 |
| 60.0 | 5659 | 1.698E-06 | 5.094E-06 | 1200 |
| 62.0 | 13391 | 4.018E-06 | 1.205E-05 | 1200 |
| 64.0 | 18899 | 5.670E-06 | 1.701E-05 | 1200 |
| 66.0 | 21807 | 6.543E-06 | 1.963E-05 | 1200 |
| 68.0 | 21444 | 6.434E-06 | 1.930E-05 | 1200 |
| 70.0 | 22898 | 6.870E-06 | 2.061E-05 | 1200 |
| 72.0 | 10538 | 3.162E-06 | 9.486E-06 | 1200 |
| 74.0 | 4745 | 1.424E-06 | 4.272E-06 | 1200 |
| 76.0 | 4380 | 1.314E-06 | 3.943E-06 | 1200 |
| 78.0 | 5841 | 1.753E-06 | 5.258E-06 | 1200 |
| 80.0 | 5659 | 1.698E-06 | 5.094E-06 | 1200 |
| 82.0 | 6937 | 2.082E-06 | 6.245E-06 | 1200 |
| 84.0 | 19263 | 5.780E-06 | 1.734E-05 | 1200 |
| 86.0 | 41195 | 1.236E-05 | 3.708E-05 | 1200 |
| 88.0 | 54525 | 1.636E-05 | 4.908E-05 | 1200 |
| 90.0 | 36348 | 1.091E-05 | 3.272E-05 | 1200 |
| 92.0 | 20717 | 6.216E-06 | 1.865E-05 | 1200 |
| 94.0 | 4047 | 1.214E-06 | 3.643E-06 | 1200 |
| 96.0 | 540 | 1.622E-07 | 4.867E-07 | 1200 |
| 98.0 | 18 | 5.401E-09 | 1.644E-08 | 1200 |
| 100.0 | 4 | 1.465E-09 | 4.395E-09 | 1200 |
| 102.0 | 0 | 0. | 0. | 1200 |
| 104.0 | 1 | 5.426E-10 | 1.628E-09 | 1200 |
| 106.0 | 39 | 1.194E-08 | 3.581E-08 | 1200 |

CROSSWIND INTEGRATED= 4.093E-03 SEC/SQ.M 1.228E-02 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 50.0 | 0 | 0. | 0. | 1600 |
| 52.0 | 1 | 4.981E-10 | 2.740E-09 | 1600 |
| 54.0 | 28 | 9.215E-09 | 5.068E-08 | 1600 |
| 56.0 | 79 | 2.540E-08 | 1.397E-07 | 1600 |
| 58.0 | 188 | 6.127E-08 | 3.370E-07 | 1600 |
| 60.0 | 540 | 1.756E-07 | 9.657E-07 | 1600 |
| 62.0 | 1219 | 3.960E-07 | 2.178E-06 | 1600 |
| 64.0 | 4906 | 1.593E-06 | 8.761E-06 | 1600 |
| 66.0 | 4493 | 1.459E-06 | 8.024E-06 | 1600 |
| 68.0 | 9200 | 2.987E-06 | 1.643E-05 | 1600 |
| 70.0 | 11630 | 3.776E-06 | 2.077E-05 | 1600 |
| 72.0 | 5834 | 1.894E-06 | 1.042E-05 | 1600 |
| 74.0 | 4658 | 1.513E-06 | 8.319E-06 | 1600 |
| 76.0 | 1355 | 4.401E-07 | 2.420E-06 | 1600 |
| 78.0 | 1072 | 3.482E-07 | 1.915E-06 | 1600 |
| 80.0 | 876 | 2.847E-07 | 1.566E-06 | 1600 |
| 82.0 | 1806 | 5.873E-07 | 3.230E-06 | 1600 |
| 84.0 | 2352 | 7.638E-07 | 4.201E-06 | 1600 |
| 86.0 | 5215 | 1.693E-06 | 9.313E-06 | 1600 |
| 88.0 | 9709 | 3.152E-06 | 1.734E-05 | 1600 |
| 90.0 | 9660 | 3.137E-06 | 1.725E-05 | 1600 |
| 92.0 | 11019 | 3.578E-06 | 1.968E-05 | 1600 |
| 93.6 | 5979 | 1.941E-06 | 1.068E-05 | 1603 |
| 94.0 | 1924 | 6.249E-07 | 3.437E-06 | 1600 |
| 94.6 | 3564 | 1.157E-06 | 6.365E-06 | 1604 |
| 95.6 | 957 | 3.109E-07 | 1.710E-06 | 1606 |
| 96.6 | 633 | 2.056E-07 | 1.132E-06 | 1608 |
| 97.6 | 159 | 5.158E-08 | 2.842E-07 | 1610 |
| 98.6 | 49 | 1.604E-08 | 8.821E-08 | 1611 |
| 99.6 | 5 | 1.782E-09 | 9.801E-09 | 1613 |

CROSSWIND INTEGRATED= 1.642E-03 SEC/SQ.M 9.032E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 44.0 | 0 | 0. | 0. | 1600 |
| E 46.0 | 14 | 4.341E-09 | 1.302E-08 | 1600 |
| 48.0 | 86 | 2.605E-08 | 7.814E-08 | 1600 |
| 50.0 | 315 | 9.478E-08 | 2.843E-07 | 1600 |
| 52.0 | 581 | 1.744E-07 | 5.231E-07 | 1600 |
| 54.0 | 836 | 2.510E-07 | 7.531E-07 | 1600 |
| 56.0 | 958 | 2.876E-07 | 8.628E-07 | 1600 |
| 58.0 | 1705 | 5.117E-07 | 1.535E-06 | 1600 |
| 60.0 | 3414 | 1.024E-06 | 3.073E-06 | 1600 |
| 62.0 | 9129 | 2.739E-06 | 8.218E-06 | 1600 |
| 64.0 | 12783 | 3.835E-06 | 1.151E-05 | 1600 |
| 66.0 | 10591 | 3.178E-06 | 9.533E-06 | 1600 |
| 68.0 | 12235 | 3.671E-06 | 1.101E-05 | 1600 |
| 70.0 | 8764 | 2.630E-06 | 7.889E-06 | 1600 |
| 72.0 | 3794 | 1.138E-06 | 3.415E-06 | 1600 |
| 74.0 | 2313 | 6.940E-07 | 2.082E-06 | 1600 |
| 76.0 | 1667 | 5.003E-07 | 1.501E-06 | 1600 |
| 78.0 | 1515 | 4.547E-07 | 1.364E-06 | 1600 |
| 80.0 | 1363 | 4.091E-07 | 1.227E-06 | 1600 |
| 82.0 | 3414 | 1.024E-06 | 3.073E-06 | 1600 |
| 84.0 | 9860 | 2.958E-06 | 8.875E-06 | 1600 |
| 86.0 | 17045 | 5.114E-06 | 1.534E-05 | 1600 |
| 88.0 | 17045 | 5.114E-06 | 1.534E-05 | 1600 |
| 90.0 | 14000 | 4.201E-06 | 1.260E-05 | 1600 |
| 92.0 | 4047 | 1.214E-06 | 3.643E-06 | 1600 |
| 93.6 | 1331 | 3.996E-07 | 1.199E-06 | 1603 |
| 94.0 | 553 | 1.660E-07 | 4.981E-07 | 1600 |
| 94.6 | 632 | 1.898E-07 | 5.694E-07 | 1604 |
| 95.6 | 1905 | 5.718E-07 | 1.716E-06 | 1606 |
| 96.6 | 961 | 2.884E-07 | 8.651E-07 | 1608 |
| 97.6 | 559 | 1.679E-07 | 5.037E-07 | 1610 |
| 98.6 | 28 | 8.433E-09 | 2.530E-08 | 1611 |
| 99.6 | 0 | 0. | 0. | 1613 |
| 100.6 | 0 | 0. | 0. | 1615 |
| 101.6 | 56 | 1.694E-08 | 5.081E-08 | 1617 |

CROSSWIND INTEGRATED= 2.344E-03 SEC/SQ.M 7.033E-03 1/M

1202756

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 48.0 | 4 | 1.494E-09 | 8.218E-09 | 2200 |
| | 50.0 | 3 | 1.067E-09 | 5.977E-09 | 2200 |
| | 52.0 | 100 | 3.260E-08 | 1.793E-07 | 2200 |
| | 54.0 | 124 | 4.034E-08 | 2.219E-07 | 2200 |
| | 56.0 | 215 | 6.995E-08 | 3.847E-07 | 2200 |
| | 58.0 | 236 | 7.688E-08 | 4.229E-07 | 2200 |
| | 60.0 | 382 | 1.242E-07 | 6.828E-07 | 2200 |
| | 62.0 | 1377 | 4.472E-07 | 2.459E-06 | 2200 |
| | 64.0 | 1228 | 3.989E-07 | 2.194E-06 | 2200 |
| | 66.0 | 1581 | 5.136E-07 | 2.825E-06 | 2200 |
| | 68.0 | 2864 | 9.301E-07 | 5.115E-06 | 2200 |
| | 70.0 | 2474 | 8.035E-07 | 4.419E-06 | 2200 |
| S | 72.0 | 2757 | 8.954E-07 | 4.925E-06 | 2200 |
| | 74.0 | 675 | 2.194E-07 | 1.207E-06 | 2200 |
| | 76.0 | 343 | 1.115E-07 | 6.134E-07 | 2200 |
| | 78.0 | 396 | 1.288E-07 | 7.082E-07 | 2200 |
| | 80.0 | 876 | 2.847E-07 | 1.566E-06 | 2200 |
| E | 82.0 | 1004 | 3.260E-07 | 1.793E-06 | 2200 |
| | 84.0 | 1202 | 3.904E-07 | 2.147E-06 | 2200 |
| | 86.0 | 3622 | 1.176E-06 | 6.469E-06 | 2200 |
| E | 88.0 | 2697 | 8.757E-07 | 4.816E-06 | 2200 |
| | 90.0 | 3282 | 1.066E-06 | 5.861E-06 | 2200 |
| | 92.0 | 1450 | 4.709E-07 | 2.590E-06 | 2200 |
| | 94.0 | 658 | 2.138E-07 | 1.176E-06 | 2200 |
| | 96.0 | 35 | 1.168E-08 | 6.425E-08 | 2200 |
| | 98.0 | 5 | 1.902E-09 | 1.046E-08 | 2200 |
| | 100.0 | 0 | 2.717E-10 | 1.494E-09 | 2200 |

CROSSWIND INTEGRATED= 7.381E-04 SEC/SQ.M 4.060E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| L | 40.0 | 0 | 0. | 0. | 2200 |
| L | 42.0 | 7 | 2.368E-09 | 7.103E-09 | 2200 |
| E | 44.0 | 28 | 8.662E-09 | 2.599E-08 | 2200 |
| E | 46.0 | 100 | 3.027E-08 | 9.081E-08 | 2200 |
| B | 48.0 | 248 | 7.443E-08 | 2.233E-07 | 2200 |
| S | 50.0 | 295 | 8.852E-08 | 2.656E-07 | 2200 |
| | 52.0 | 569 | 1.709E-07 | 5.128E-07 | 2200 |
| | 54.0 | 845 | 2.538E-07 | 7.614E-07 | 2200 |
| Z | 56.0 | 1003 | 3.011E-07 | 9.034E-07 | 2200 |
| | 58.0 | 845 | 2.538E-07 | 7.614E-07 | 2200 |
| | 60.0 | 1673 | 5.022E-07 | 1.507E-06 | 2200 |
| | 62.0 | 4267 | 1.280E-06 | 3.841E-06 | 2200 |
| | 64.0 | 7271 | 2.182E-06 | 6.545E-06 | 2200 |
| | 66.0 | 5880 | 1.764E-06 | 5.293E-06 | 2200 |
| | 68.0 | 4836 | 1.451E-06 | 4.353E-06 | 2200 |
| | 70.0 | 1707 | 5.122E-07 | 1.537E-06 | 2200 |
| T | 72.0 | 1575 | 4.728E-07 | 1.418E-06 | 2200 |
| | 74.0 | 1339 | 4.016E-07 | 1.205E-06 | 2200 |
| | 76.0 | 924 | 2.775E-07 | 8.324E-07 | 2200 |
| | 78.0 | 885 | 2.656E-07 | 7.969E-07 | 2200 |
| | 80.0 | 1536 | 4.609E-07 | 1.383E-06 | 2200 |
| E | 82.0 | 3680 | 1.104E-06 | 3.312E-06 | 2200 |
| | 84.0 | 8683 | 2.605E-06 | 7.816E-06 | 2200 |
| | 86.0 | 7904 | 2.372E-06 | 7.115E-06 | 2200 |
| E | 88.0 | 5324 | 1.597E-06 | 4.792E-06 | 2200 |
| | 90.0 | 3697 | 1.110E-06 | 3.329E-06 | 2200 |
| | 92.0 | 1260 | 3.781E-07 | 1.134E-06 | 2200 |
| | 94.0 | 300 | 9.003E-08 | 2.701E-07 | 2200 |
| 4 | 96.0 | 34 | 1.026E-08 | 3.078E-08 | 2200 |
| 4 | 98.0 | 11 | 3.307E-09 | 9.921E-09 | 2200 |
| | 100.0 | 5 | 1.710E-09 | 5.130E-09 | 2200 |

CROSSWIND INTEGRATED= 1.538E-03 SEC/SQ.M 4.614E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 53 | 1.725E-08 | 9.488E-08 | 3200 |
| S | 50.0 | 47 | 1.535E-08 | 8.442E-08 | 3200 |
| | 52.0 | 64 | 2.092E-08 | 1.151E-07 | 3200 |
| | 54.0 | 140 | 4.550E-08 | 2.503E-07 | 3200 |
| | 58.0 | 74 | 2.404E-08 | 1.322E-07 | 3200 |
| | 60.0 | 192 | 6.252E-08 | 3.444E-07 | 3200 |
| | 62.0 | 723 | 2.349E-07 | 1.292E-06 | 3200 |
| | 64.0 | 969 | 3.147E-07 | 1.731E-06 | 3200 |
| | 66.0 | 468 | 1.521E-07 | 8.367E-07 | 3200 |
| S | 68.0 | 1424 | 4.624E-07 | 2.543E-06 | 3200 |
| | 70.0 | 2236 | 7.262E-07 | 3.994E-06 | 3200 |
| | 72.7 | 2396 | 7.780E-07 | 4.279E-06 | 3158 |
| | 73.7 | 2127 | 6.906E-07 | 3.799E-06 | 3170 |
| | 74.7 | 513 | 1.668E-07 | 9.175E-07 | 3172 |
| | 75.7 | 1425 | 4.629E-07 | 2.546E-06 | 3173 |
| | 76.8 | 913 | 2.966E-07 | 1.631E-06 | 3175 |
| | 77.8 | 399 | 1.297E-07 | 7.136E-07 | 3177 |
| | 78.8 | 777 | 2.524E-07 | 1.388E-06 | 3179 |
| | 79.8 | 1315 | 4.272E-07 | 2.350E-06 | 3180 |
| | 80.8 | 1469 | 4.771E-07 | 2.624E-06 | 3182 |
| | 81.8 | 3547 | 1.152E-06 | 6.335E-06 | 3184 |
| | 82.8 | 4104 | 1.333E-06 | 7.330E-06 | 3185 |
| | 83.8 | 3249 | 1.055E-06 | 5.803E-06 | 3187 |
| | 84.8 | 3172 | 1.030E-06 | 5.665E-06 | 3189 |
| | 85.8 | 3180 | 1.033E-06 | 5.680E-06 | 3191 |
| | 86.8 | 3347 | 1.087E-06 | 5.978E-06 | 3192 |
| | 87.8 | 6817 | 2.214E-06 | 1.217E-05 | 3194 |
| | 88.8 | 6101 | 1.981E-06 | 1.090E-05 | 3196 |
| | 89.8 | 4036 | 1.311E-06 | 7.209E-06 | 3198 |
| | 90.8 | 1481 | 4.810E-07 | 2.646E-06 | 3199 |
| | 91.8 | 1428 | 4.638E-07 | 2.551E-06 | 3201 |
| | 92.8 | 690 | 2.242E-07 | 1.233E-06 | 3203 |
| | 93.8 | 188 | 6.134E-08 | 3.374E-07 | 3205 |
| | 94.8 | 69 | 2.251E-08 | 1.238E-07 | 3206 |
| | 95.8 | 32 | 1.059E-08 | 5.825E-08 | 3208 |
| | 96.8 | 80 | 2.604E-08 | 1.432E-07 | 3210 |

CROSSWIND INTEGRATED= 1.244E-03 SEC/SQ.M 6.841E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 46.0 | 201 | 6.043E-08 | 1.813E-07 | 3200 |
| T | 50.0 | 240 | 7.227E-08 | 2.168E-07 | 3200 |
| | 52.0 | 359 | 1.078E-07 | 3.233E-07 | 3200 |
| | 54.0 | 227 | 6.832E-08 | 2.050E-07 | 3200 |
| T | 56.0 | 201 | 6.043E-08 | 1.813E-07 | 3200 |
| | 58.0 | 280 | 8.411E-08 | 2.523E-07 | 3200 |
| | 60.0 | 885 | 2.656E-07 | 7.969E-07 | 3200 |
| | 62.0 | 2243 | 6.730E-07 | 2.019E-06 | 3200 |
| | 64.0 | 2464 | 7.394E-07 | 2.218E-06 | 3200 |
| | 66.0 | 2116 | 6.350E-07 | 1.905E-06 | 3200 |
| T | 68.0 | 1420 | 4.263E-07 | 1.279E-06 | 3200 |
| Z | 70.0 | 484 | 1.453E-07 | 4.358E-07 | 3200 |
| | 72.7 | 1564 | 4.695E-07 | 1.409E-06 | 3168 |
| | 73.7 | 1161 | 3.484E-07 | 1.045E-06 | 3170 |
| | 74.7 | 169 | 5.090E-08 | 1.527E-07 | 3172 |
| | 75.7 | 667 | 2.003E-07 | 6.009E-07 | 3173 |
| | 76.8 | 600 | 1.801E-07 | 5.404E-07 | 3175 |
| | 77.8 | 452 | 1.357E-07 | 4.071E-07 | 3177 |
| | 78.8 | 757 | 2.272E-07 | 6.817E-07 | 3179 |
| | 79.8 | 1609 | 4.830E-07 | 1.449E-06 | 3180 |
| | 80.8 | 2484 | 7.455E-07 | 2.236E-06 | 3182 |
| | 81.8 | 4705 | 1.412E-06 | 4.235E-06 | 3184 |
| | 82.8 | 4032 | 1.210E-06 | 3.630E-06 | 3185 |
| | 83.8 | 4503 | 1.351E-06 | 4.054E-06 | 3187 |
| | 84.8 | 6500 | 1.950E-06 | 5.851E-06 | 3189 |
| | 85.8 | 3292 | 9.878E-07 | 2.963E-06 | 3191 |
| | 86.8 | 5243 | 1.573E-06 | 4.720E-06 | 3192 |
| | 87.8 | 3897 | 1.170E-06 | 3.509E-06 | 3194 |
| | 88.8 | 3157 | 9.474E-07 | 2.842E-06 | 3196 |
| | 89.8 | 1318 | 3.955E-07 | 1.186E-06 | 3198 |
| | 90.8 | 936 | 2.811E-07 | 8.432E-07 | 3199 |
| | 91.8 | 445 | 1.337E-07 | 4.010E-07 | 3201 |
| | 92.8 | 186 | 5.609E-08 | 1.683E-07 | 3203 |
| | 93.8 | 21 | 6.410E-09 | 1.923E-06 | 3205 |
| | 94.8 | 56 | 1.699E-08 | 5.096E-08 | 3206 |
| | 95.8 | 11 | 3.397E-09 | 1.019E-06 | 3208 |
| | 96.8 | 1 | 3.205E-10 | 9.615E-10 | 3210 |

CROSSWIND INTEGRATED= 1.196E-03 SEC/SQ.M 3.589E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 1211 | 3.932E-07 | 2.163E-06 | 4630 |
| 84.0 | 1101 | 3.575E-07 | 1.966E-06 | 4620 |
| 86.0 | 1421 | 4.614E-07 | 2.538E-06 | 4610 |
| 88.0 | 1030 | 3.344E-07 | 1.839E-06 | 4610 |
| 90.0 | 670 | 2.177E-07 | 1.198E-06 | 4610 |
| 92.0 | 57 | 1.861E-08 | 1.024E-07 | 4620 |
| 94.0 | 29 | 9.644E-09 | 5.304E-08 | 4620 |
| 96.0 | 29 | 9.644E-09 | 5.304E-08 | 4620 |
| 98.0 | 15 | 5.162E-09 | 2.839E-08 | 4660 |
| 100.0 | 10 | 3.396E-09 | 1.868E-08 | 4690 |

CROSSWIND INTEGRATED= 2.918E-04 SEC/SQ.M 1.605E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| F 82.0 | 2035 | 6.107E-07 | 1.832E-06 | 4630 |
| 84.0 | 3087 | 9.264E-07 | 2.779E-06 | 4620 |
| 86.0 | 1640 | 4.923E-07 | 1.477E-06 | 4610 |
| 88.0 | 845 | 2.536E-07 | 7.608E-07 | 4610 |
| 90.0 | 444 | 1.332E-07 | 3.997E-07 | 4610 |
| 92.0 | 34 | 1.034E-08 | 3.103E-08 | 4620 |
| 94.0 | 16 | 4.801E-09 | 1.440E-08 | 4620 |
| 96.0 | 0 | 2.255E-10 | 6.765E-10 | 4620 |

CROSSWIND INTEGRATED= 3.920E-04 SEC/SQ.M 1.176E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 76.0 | 191 | 6.208E-08 | 3.414E-07 | 6280 |
| 78.0 | 135 | 4.428E-08 | 2.436E-07 | 6300 |
| 80.0 | 89 | 2.907E-08 | 1.599E-07 | 6400 |
| 82.0 | 1895 | 6.153E-07 | 3.384E-06 | 6490 |
| E 84.0 | 134 | 4.360E-08 | 2.398E-07 | 6500 |
| 86.0 | 74 | 2.431E-08 | 1.337E-07 | 6500 |
| 88.0 | 67 | 2.187E-08 | 1.203E-07 | 6480 |
| 90.0 | 165 | 5.379E-08 | 2.958E-07 | 6500 |
| 92.0 | 81 | 2.649E-08 | 1.457E-07 | 6490 |
| 94.0 | 18 | 6.113E-09 | 3.362E-08 | 6500 |
| 96.0 | 9 | 2.986E-09 | 1.644E-08 | 6510 |
| 98.0 | 7 | 2.581E-09 | 1.419E-08 | 6520 |
| 100.0 | 0 | 2.717E-10 | 1.494E-09 | 6560 |
| 102.0 | 0 | 2.717E-10 | 1.494E-09 | 6610 |

CROSSWIND INTEGRATED= 2.104E-04 SEC/SQ.M 1.158E-03 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 76.0 | 261 | 7.857E-08 | 2.357E-07 | 6280 |
| 78.0 | 182 | 5.490E-08 | 1.647E-07 | 6300 |
| 80.0 | 321 | 9.633E-08 | 2.890E-07 | 6400 |
| 82.0 | 1511 | 4.534E-07 | 1.360E-06 | 6490 |
| E 84.0 | 965 | 2.897E-07 | 8.690E-07 | 6500 |
| 86.0 | 570 | 1.713E-07 | 5.139E-07 | 6500 |
| 88.0 | 235 | 7.068E-08 | 2.120E-07 | 6480 |
| 90.0 | 156 | 4.700E-08 | 1.410E-07 | 6500 |
| 3 92.0 | 54 | 1.623E-08 | 4.868E-08 | 6490 |
| 94.0 | 23 | 6.981E-09 | 2.094E-08 | 6500 |
| 96.0 | 2 | 6.671E-10 | 2.001E-09 | 6510 |
| 98.0 | 30 | 9.236E-09 | 2.771E-08 | 6520 |
| 100.0 | 1 | 4.698E-10 | 1.409E-09 | 6560 |

CROSSWIND INTEGRATED= 2.924E-04 SEC/SQ.M 8.772E-04 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 91.0 | 137 | 4.469E-08 | 2.458E-07 | 12800 |
| S 92.0 | 106 | 3.450E-08 | 1.898E-07 | 12800 |
| 93.0 | 5 | 1.630E-09 | 8.955E-09 | 12800 |
| 94.0 | 60 | 1.956E-08 | 1.076E-07 | 12800 |
| 95.0 | 74 | 2.404E-08 | 1.322E-07 | 12800 |
| S 96.0 | 81 | 2.649E-08 | 1.457E-07 | 12800 |
| I 97.0 | 0 | 2.717E-10 | 1.494E-09 | 12800 |
| S 98.0 | 2 | 8.150E-10 | 4.483E-09 | 12800 |

CROSSWIND INTEGRATED= 3.396E-05 SEC/SQ.M 1.868E-04 1/M

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 91.0 | 255 | 7.667E-08 | 2.300E-07 | 12800 |
| T 92.0 | 186 | 5.609E-08 | 1.683E-07 | 12800 |
| 3 93.0 | 46 | 1.409E-08 | 4.228E-08 | 12800 |
| 4 94.0 | 105 | 3.166E-08 | 9.499E-08 | 12800 |
| 95.0 | 59 | 1.776E-08 | 5.327E-08 | 12800 |
| T 96.0 | 74 | 2.227E-08 | 6.680E-08 | 12800 |
| 2 97.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 4.882E-05 SEC/SQ.M 1.465E-04 1/M

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. MUST ARCS TRUNCATED ON NORTH. SMEARED OR BIMODAL DISTRIBUTIONS.
FAILURE OF SAMPLERS AT MID-ARC LEAVES THE 400M DATA ESSENTIALLY MEANINGLESS
IRREGULAR DISPERSAL RATE OF FLUORESCEIN FOR ABOUT 5 MIN OF THE 30 MIN DISPERSAL PERIOD (NEAR ABOUT 0340 PST).

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 46.0 | 225 | 7.314E-08 | 2.560E-07 | 400 |
| | 50.0 | 274 | 8.908E-08 | 3.118E-07 | 400 |
| | 54.0 | 1392 | 4.520E-07 | 1.582E-06 | 400 |
| | 58.0 | 3143 | 1.021E-06 | 3.572E-06 | 400 |
| I | 62.0 | 3122 | 1.014E-06 | 3.548E-06 | 400 |
| I | 66.0 | 683 | 2.218E-07 | 7.762E-07 | 400 |
| I | 70.0 | 0 | 0. | 0. | 400 |
| I | 74.0 | 0 | 0. | 0. | 400 |
| P | 78.0 | 59 | 1.922E-08 | 6.728E-08 | 400 |
| P | 82.0 | 0 | 0. | 0. | 400 |
| P | 86.0 | 228 | 7.408E-08 | 2.593E-07 | 400 |
| P | 90.0 | 0 | 0. | 0. | 400 |
| | 94.0 | 5660 | 1.838E-06 | 6.433E-06 | 400 |
| | 98.0 | 4008 | 1.302E-06 | 4.555E-06 | 400 |
| | 102.0 | 1462 | 4.749E-07 | 1.662E-06 | 400 |
| | 106.0 | 1146 | 3.723E-07 | 1.303E-06 | 400 |
| | 110.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.941E-04 SEC/SQ.M 6.793E-04 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 46.0 | 44958 | 1.623E-05 | 2.272E-05 | 400 |
| | 50.0 | 28012 | 1.011E-05 | 1.416E-05 | 400 |
| | 54.0 | 20194 | 7.289E-06 | 1.021E-05 | 400 |
| | 58.0 | 24968 | 1.082E-05 | 1.515E-05 | 400 |
| I | 62.0 | 26057 | 9.407E-06 | 1.317E-05 | 400 |
| I | 66.0 | 37789 | 1.364E-05 | 1.910E-05 | 400 |
| I | 70.0 | 56473 | 2.039E-05 | 2.854E-05 | 400 |
| I | 74.0 | 71680 | 2.588E-05 | 3.623E-05 | 400 |
| P | 78.0 | 257 | 9.287E-08 | 1.300E-07 | 400 |
| P | 82.0 | 592 | 2.138E-07 | 2.994E-07 | 400 |
| P | 86.0 | 603 | 2.177E-07 | 3.048E-07 | 400 |
| P | 90.0 | 103 | 3.746E-08 | 5.244E-08 | 400 |
| | 94.0 | 139029 | 5.019E-05 | 7.027E-05 | 400 |
| | 98.0 | 30371 | 2.901E-05 | 4.062E-05 | 400 |
| | 102.0 | 33226 | 1.200E-05 | 1.679E-05 | 400 |
| | 106.0 | 211 | 7.644E-08 | 1.070E-07 | 400 |
| | 110.0 | 3 | 1.405E-09 | 1.967E-09 | 400 |

CROSSWIND INTEGRATED= 5.742E-03 SEC/SQ.M 8.038E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 179 | 5.814E-08 | 2.035E-07 | 800 |
| | 43.0 | 355 | 1.153E-07 | 4.037E-07 | 800 |
| | 46.0 | 570 | 1.852E-07 | 6.482E-07 | 800 |
| | 49.0 | 659 | 2.143E-07 | 7.499E-07 | 800 |
| | 52.0 | 1185 | 3.849E-07 | 1.347E-06 | 800 |
| | 55.0 | 3123 | 1.014E-06 | 3.549E-06 | 800 |
| | 58.0 | 3402 | 1.105E-06 | 3.866E-06 | 800 |
| | 61.0 | 3865 | 1.255E-06 | 4.393E-06 | 800 |
| | 64.0 | 1591 | 5.167E-07 | 1.808E-06 | 800 |
| | 67.0 | 2205 | 7.159E-07 | 2.506E-06 | 800 |
| | 70.0 | 659 | 2.143E-07 | 7.499E-07 | 800 |
| | 73.0 | 300 | 9.752E-08 | 3.413E-07 | 800 |
| | 76.0 | 301 | 9.799E-08 | 3.430E-07 | 800 |
| | 79.0 | 77 | 2.532E-08 | 8.861E-08 | 800 |
| | 82.0 | 428 | 1.392E-07 | 4.874E-07 | 800 |
| | 85.0 | 680 | 2.208E-07 | 7.729E-07 | 800 |
| | 88.0 | 612 | 1.988E-07 | 6.958E-07 | 800 |
| | 91.0 | 2186 | 7.098E-07 | 2.484E-06 | 800 |
| | 94.0 | 918 | 2.982E-07 | 1.044E-06 | 800 |
| | 97.0 | 7247 | 2.353E-06 | 8.236E-06 | 800 |
| | 97.1 | 7786 | 2.528E-06 | 8.849E-06 | 806 |
| | 99.1 | 4920 | 1.597E-06 | 5.591E-06 | 809 |
| | 101.1 | 1274 | 4.138E-07 | 1.448E-06 | 813 |
| | 103.0 | 1287 | 4.181E-07 | 1.463E-06 | 816 |
| | 105.0 | 696 | 2.260E-07 | 7.910E-07 | 820 |
| | 106.9 | 0 | 0. | 0. | 823 |

CROSSWIND INTEGRATED= 4.797E-04 SEC/SQ.M 1.679E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 33235 | 1.200E-05 | 1.680E-05 | 800 |
| | 43.0 | 43012 | 1.553E-05 | 2.174E-05 | 800 |
| | 46.0 | 38449 | 1.388E-05 | 1.943E-05 | 800 |
| | 49.0 | 47574 | 1.717E-05 | 2.404E-05 | 800 |
| | 52.0 | 33235 | 1.200E-05 | 1.680E-05 | 800 |
| | 55.0 | 17353 | 6.265E-06 | 8.771E-06 | 800 |
| | 58.0 | 7259 | 2.621E-06 | 3.669E-06 | 800 |
| | 61.0 | 7486 | 2.703E-06 | 3.784E-06 | 800 |
| | 64.0 | 5847 | 2.129E-06 | 2.981E-06 | 800 |
| | 67.0 | 6351 | 2.293E-06 | 3.210E-06 | 800 |
| | 70.0 | 6805 | 2.457E-06 | 3.439E-06 | 800 |
| | 73.0 | 4989 | 1.801E-06 | 2.522E-06 | 800 |
| | 76.0 | 7713 | 2.785E-06 | 3.898E-06 | 800 |
| | 79.0 | 3740 | 1.350E-06 | 1.891E-06 | 800 |
| | 82.0 | 11798 | 4.259E-06 | 5.963E-06 | 800 |
| | 85.0 | 12768 | 4.609E-06 | 6.453E-06 | 800 |
| | 88.0 | 16941 | 6.116E-06 | 8.563E-06 | 800 |
| | 91.0 | 29325 | 1.059E-05 | 1.482E-05 | 800 |
| | 94.0 | 22155 | 7.998E-06 | 1.120E-05 | 800 |
| | 97.0 | 12813 | 4.626E-06 | 6.476E-06 | 800 |
| | 97.1 | 20304 | 7.330E-06 | 1.026E-05 | 806 |
| | 99.1 | 4208 | 1.519E-06 | 2.127E-06 | 809 |
| | 101.1 | 117 | 4.259E-08 | 5.963E-08 | 813 |
| | 103.0 | 1 | 5.043E-10 | 7.060E-10 | 816 |

CROSSWIND INTEGRATED= 5.637E-03 SEC/SQ.M 7.892E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 874 | 2.678E-07 | 9.372E-07 | 1200 |
| | 50.0 | 1353 | 4.396E-07 | 1.539E-06 | 1200 |
| | 52.0 | 1898 | 6.164E-07 | 2.157E-06 | 1200 |
| | 54.0 | 2572 | 8.353E-07 | 2.923E-06 | 1200 |
| | 56.0 | 4023 | 1.306E-06 | 4.573E-06 | 1200 |
| | 58.0 | 4711 | 1.530E-06 | 5.354E-06 | 1200 |
| | 60.0 | 5522 | 1.793E-06 | 6.275E-06 | 1200 |
| | 62.0 | 4323 | 1.404E-06 | 4.913E-06 | 1200 |
| O | 64.0 | 1209 | 3.928E-07 | 1.375E-06 | 1200 |
| O | 66.0 | 1102 | 3.580E-07 | 1.253E-06 | 1200 |
| | 68.0 | 1639 | 5.324E-07 | 1.863E-06 | 1200 |
| | 70.0 | 1130 | 3.672E-07 | 1.285E-06 | 1200 |
| | 72.0 | 1289 | 4.187E-07 | 1.465E-06 | 1200 |
| | 74.0 | 941 | 3.057E-07 | 1.070E-06 | 1200 |
| | 76.0 | 1204 | 3.910E-07 | 1.358E-06 | 1200 |
| | 78.0 | 930 | 3.020E-07 | 1.057E-06 | 1200 |
| | 80.0 | 523 | 1.700E-07 | 5.949E-07 | 1200 |
| | 82.0 | 350 | 1.138E-07 | 3.981E-07 | 1200 |
| | 84.0 | 407 | 1.323E-07 | 4.631E-07 | 1200 |
| | 86.0 | 667 | 2.168E-07 | 7.588E-07 | 1200 |
| | 88.0 | 716 | 2.325E-07 | 8.137E-07 | 1200 |
| | 90.0 | 903 | 2.934E-07 | 1.027E-06 | 1200 |
| | 92.0 | 1528 | 4.963E-07 | 1.737E-06 | 1200 |
| | 94.0 | 3892 | 1.264E-06 | 4.424E-06 | 1200 |
| | 96.0 | 3952 | 1.283E-06 | 4.491E-06 | 1200 |
| | 98.0 | 5253 | 1.706E-06 | 5.969E-06 | 1200 |
| | 100.0 | 1800 | 5.847E-07 | 2.047E-06 | 1200 |
| | 102.0 | 75 | 2.458E-08 | 8.604E-08 | 1200 |
| | 104.0 | 1 | 5.230E-10 | 1.831E-09 | 1200 |
| | 106.0 | 1 | 5.230E-10 | 1.831E-09 | 1200 |
| | 108.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 7.447E-04 SEC/SQ.M 2.605E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 15989 | 5.772E-06 | 8.081E-06 | 1200 |
| | 50.0 | 18897 | 6.822E-06 | 9.551E-06 | 1200 |
| | 52.0 | 27259 | 9.841E-06 | 1.378E-05 | 1200 |
| | 54.0 | 30288 | 1.093E-05 | 1.531E-05 | 1200 |
| | 56.0 | 31500 | 1.137E-05 | 1.592E-05 | 1200 |
| | 58.0 | 30288 | 1.093E-05 | 1.531E-05 | 1200 |
| | 60.0 | 14899 | 5.379E-06 | 7.530E-06 | 1200 |
| | 62.0 | 5657 | 2.042E-06 | 2.859E-06 | 1200 |
| F | 64.0 | 5109 | 1.845E-06 | 2.582E-06 | 1200 |
| M | 66.0 | 5818 | 2.100E-06 | 2.941E-06 | 1200 |
| | 68.0 | 4552 | 1.643E-06 | 2.301E-06 | 1200 |
| | 70.0 | 3159 | 1.141E-06 | 1.597E-06 | 1200 |
| | 72.0 | 3071 | 1.109E-06 | 1.552E-06 | 1200 |
| | 74.0 | 2995 | 1.081E-06 | 1.514E-06 | 1200 |
| | 76.0 | 3159 | 1.141E-06 | 1.597E-06 | 1200 |
| | 78.0 | 1969 | 7.111E-07 | 9.955E-07 | 1200 |
| | 80.0 | 1855 | 6.699E-07 | 9.379E-07 | 1200 |
| | 82.0 | 2159 | 7.796E-07 | 1.091E-06 | 1200 |
| | 84.0 | 3336 | 1.205E-06 | 1.687E-06 | 1200 |
| | 86.0 | 2007 | 7.248E-07 | 1.015E-06 | 1200 |
| | 88.0 | 2007 | 7.248E-07 | 1.015E-06 | 1200 |
| | 90.0 | 2957 | 1.068E-06 | 1.495E-06 | 1200 |
| | 92.0 | 3412 | 1.232E-06 | 1.725E-06 | 1200 |
| | 94.0 | 4299 | 1.552E-06 | 2.173E-06 | 1200 |
| | 96.0 | 3033 | 1.095E-06 | 1.533E-06 | 1200 |
| | 98.0 | 1058 | 3.820E-07 | 5.349E-07 | 1200 |
| | 100.0 | 79 | 2.877E-08 | 4.028E-08 | 1200 |
| | 102.0 | 3 | 1.349E-09 | 1.889E-09 | 1200 |

CROSSWIND INTEGRATED= 3.491E-03 SEC/SQ.M 4.887E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 539 | 1.752E-07 | 6.132E-07 | 1600 |
| | 50.0 | 477 | 1.551E-07 | 5.428E-07 | 1600 |
| | 52.0 | 1502 | 4.88 0E-07 | 1.708E-06 | 1600 |
| | 54.0 | 400 | 1.300E-07 | 4.549E-07 | 1600 |
| | 56.0 | 2748 | 8.925E-07 | 3.124E-06 | 1600 |
| | 58.0 | 2022 | 6.566E-07 | 2.298E-06 | 1600 |
| | 60.0 | 4163 | 1.352E-06 | 4.731E-06 | 1600 |
| | 62.0 | 2833 | 9.200E-07 | 3.220E-06 | 1600 |
| | 64.0 | 5704 | 1.852E-06 | 6.483E-06 | 1600 |
| | 66.0 | 3063 | 9.948E-07 | 3.482E-06 | 1600 |
| | 68.0 | 2532 | 8.222E-07 | 2.878E-06 | 1600 |
| | 70.0 | 493 | 1.603E-07 | 5.611E-07 | 1600 |
| | 72.0 | 1640 | 5.327E-07 | 1.864E-06 | 1600 |
| | 74.0 | 915 | 2.973E-07 | 1.041E-06 | 1600 |
| | 76.0 | 1661 | 5.395E-07 | 1.888E-06 | 1600 |
| | 78.0 | 459 | 1.491E-07 | 5.217E-07 | 1600 |
| | 80.0 | 1086 | 3.528E-07 | 1.235E-06 | 1600 |
| | 82.0 | 276 | 8.970E-08 | 3.139E-07 | 1600 |
| | 84.0 | 512 | 1.663E-07 | 5.821E-07 | 1600 |
| | 86.0 | 96 | 3.138E-08 | 1.098E-07 | 1600 |
| | 88.0 | 206 | 6.721E-08 | 2.352E-07 | 1600 |
| | 90.0 | 292 | 9.493E-08 | 3.322E-07 | 1600 |
| | 92.0 | 1540 | 5.000E-07 | 1.750E-06 | 1600 |
| | 94.0 | 115 | 3.740E-08 | 1.309E-07 | 1600 |
| | 94.6 | 534 | 1.737E-07 | 6.079E-07 | 1604 |
| | 95.6 | 829 | 2.693E-07 | 9.426E-07 | 1606 |
| | 96.6 | 892 | 2.898E-07 | 1.014E-06 | 1608 |
| | 97.6 | 2154 | 6.997E-07 | 2.449E-06 | 1610 |
| | 98.6 | 1809 | 5.874E-07 | 2.056E-06 | 1611 |
| | 99.6 | 1304 | 4.235E-07 | 1.482E-06 | 1613 |
| | 100.6 | 1136 | 3.689E-07 | 1.291E-06 | 1615 |
| | 101.6 | 411 | 1.337E-07 | 4.679E-07 | 1617 |
| O | 102.6 | 369 | 1.200E-07 | 4.201E-07 | 1618 |
| | 103.6 | 0 | 0. | 0. | 1620 |

CROSSWIND INTEGRATED= 7.244E-04 SEC/SQ.M 2.535E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 11627 | 4.198E-06 | 5.877E-06 | 1600 |
| | 50.0 | 11627 | 4.198E-06 | 5.877E-06 | 1600 |
| | 52.0 | 21442 | 7.741E-06 | 1.084E-05 | 1600 |
| | 54.0 | 15989 | 5.772E-06 | 8.081E-06 | 1600 |
| | 56.0 | 24714 | 8.922E-06 | 1.249E-05 | 1600 |
| | 58.0 | 17807 | 6.429E-06 | 9.000E-06 | 1600 |
| | 60.0 | 13445 | 4.854E-06 | 6.795E-06 | 1600 |
| | 62.0 | 8945 | 3.229E-06 | 4.521E-06 | 1600 |
| | 64.0 | 4926 | 1.779E-06 | 2.490E-06 | 1600 |
| | 66.0 | 3412 | 1.232E-06 | 1.725E-06 | 1600 |
| | 68.0 | 2539 | 9.167E-07 | 1.283E-06 | 1600 |
| Z | 70.0 | 2121 | 7.659E-07 | 1.072E-06 | 1600 |
| | 72.0 | 1248 | 4.506E-07 | 6.306E-07 | 1600 |
| | 74.0 | 956 | 3.454E-07 | 4.836E-07 | 1600 |
| | 76.0 | 1134 | 4.094E-07 | 5.732E-07 | 1600 |
| | 78.0 | 860 | 3.134E-07 | 4.388E-07 | 1600 |
| | 80.0 | 678 | 2.449E-07 | 3.428E-07 | 1600 |
| | 82.0 | 476 | 1.722E-07 | 2.411E-07 | 1600 |
| | 84.0 | 284 | 1.026E-07 | 1.436E-07 | 1600 |
| | 86.0 | 108 | 3.922E-08 | 5.491E-08 | 1600 |
| | 88.0 | 205 | 7.426E-08 | 1.040E-07 | 1600 |
| | 90.0 | 320 | 1.156E-07 | 1.619E-07 | 1600 |
| | 92.0 | 956 | 3.454E-07 | 4.836E-07 | 1600 |
| | 94.0 | 766 | 2.769E-07 | 3.876E-07 | 1600 |
| | 94.6 | 798 | 2.882E-07 | 4.035E-07 | 1604 |
| | 95.6 | 1695 | 6.123E-07 | 8.572E-07 | 1606 |
| Z | 96.6 | 821 | 2.968E-07 | 4.155E-07 | 1608 |
| | 97.6 | 1034 | 3.735E-07 | 5.229E-07 | 1610 |
| 4 | 98.6 | 335 | 1.211E-07 | 1.695E-07 | 1611 |
| | 99.6 | 141 | 5.116E-08 | 7.163E-08 | 1613 |
| | 100.6 | 0 | 8.527E-11 | 1.194E-10 | 1615 |

CROSSWIND INTEGRATED= 2.998E-03 SEC/SQ.M 4.197E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 233 | 7.566E-08 | 2.648E-07 | 2200 |
| S | 50.0 | 287 | 9.332E-08 | 3.266E-07 | 2200 |
| | 52.0 | 674 | 2.191E-07 | 7.669E-07 | 2200 |
| | 54.0 | 1072 | 3.483E-07 | 1.219E-06 | 2200 |
| | 56.0 | 1368 | 4.443E-07 | 1.555E-06 | 2200 |
| | 58.0 | 2194 | 7.124E-07 | 2.494E-06 | 2200 |
| | 60.0 | 3378 | 1.097E-06 | 3.839E-06 | 2200 |
| | 62.0 | 5084 | 1.651E-06 | 5.777E-06 | 2200 |
| | 64.0 | 7159 | 2.325E-06 | 8.136E-06 | 2200 |
| | 66.0 | 5849 | 1.899E-06 | 6.647E-06 | 2200 |
| | 68.0 | 5112 | 1.660E-06 | 5.809E-06 | 2200 |
| | 70.0 | 4538 | 1.474E-06 | 5.157E-06 | 2200 |
| | 72.0 | 3100 | 1.007E-06 | 3.523E-06 | 2200 |
| | 74.0 | 2477 | 8.043E-07 | 2.815E-06 | 2200 |
| | 76.0 | 2072 | 6.728E-07 | 2.355E-06 | 2200 |
| | 78.0 | 1320 | 4.288E-07 | 1.501E-06 | 2200 |
| | 80.0 | 885 | 2.874E-07 | 1.006E-06 | 2200 |
| | 82.0 | 507 | 1.649E-07 | 5.772E-07 | 2200 |
| | 84.0 | 568 | 1.846E-07 | 6.461E-07 | 2200 |
| | 86.0 | 238 | 7.729E-08 | 2.705E-07 | 2200 |
| 6 | 88.0 | 131 | 4.279E-08 | 1.498E-07 | 2200 |
| | 90.0 | 92 | 2.988E-08 | 1.046E-07 | 2200 |
| 4 | 92.0 | 66 | 2.160E-08 | 7.559E-08 | 2200 |
| 5 | 94.0 | 9 | 3.124E-09 | 1.093E-08 | 2200 |
| | 96.0 | 0 | 0. | 0. | 2200 |
| 5 | 98.0 | 74 | 2.431E-08 | 8.510E-08 | 2200 |
| T | 100.0 | 1 | 4.075E-10 | 1.426E-09 | 2200 |
| | 102.0 | 0 | 2.717E-10 | 9.508E-10 | 2200 |
| | 104.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.209E-03 SEC/SQ.M 4.232E-03 1/M.

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 6224 | 2.247E-06 | 3.146E-06 | 2200 |
| S | 50.0 | 7356 | 2.656E-06 | 3.718E-06 | 2200 |
| | 52.0 | 10189 | 3.678E-06 | 5.150E-06 | 2200 |
| | 54.0 | 12266 | 4.428E-06 | 6.200E-06 | 2200 |
| | 56.0 | 12455 | 4.496E-06 | 6.295E-06 | 2200 |
| | 58.0 | 12037 | 4.360E-06 | 6.104E-06 | 2200 |
| | 60.0 | 12077 | 4.360E-06 | 6.104E-06 | 2200 |
| | 62.0 | 8867 | 3.201E-06 | 4.482E-06 | 2200 |
| | 64.0 | 5657 | 2.042E-06 | 2.859E-06 | 2200 |
| | 66.0 | 4831 | 1.744E-06 | 2.442E-06 | 2200 |
| | 68.0 | 2649 | 9.565E-07 | 1.339E-06 | 2200 |
| | 70.0 | 2301 | 8.309E-07 | 1.163E-06 | 2200 |
| 2 | 72.0 | 2522 | 9.108E-07 | 1.275E-06 | 2200 |
| 4 | 74.0 | 2333 | 8.423E-07 | 1.179E-06 | 2200 |
| 3 | 76.0 | 1492 | 5.387E-07 | 7.541E-07 | 2200 |
| 3 | 78.0 | 841 | 3.036E-07 | 4.251E-07 | 2200 |
| | 80.0 | 374 | 1.351E-07 | 1.891E-07 | 2200 |
| | 82.0 | 157 | 5.675E-08 | 7.945E-08 | 2200 |
| 4 | 84.0 | 216 | 7.812E-08 | 1.094E-07 | 2200 |
| 3 | 86.0 | 40 | 1.449E-08 | 2.029E-08 | 2200 |
| 6 | 88.0 | 5 | 2.148E-09 | 3.007E-09 | 2200 |
| 2 | 90.0 | 0 | 0. | 0. | 2200 |
| 4 | 92.0 | 0 | 0. | 0. | 2200 |
| 5 | 94.0 | 3 | 1.130E-09 | 1.583E-09 | 2200 |
| 3 | 96.0 | 5 | 1.809E-09 | 2.532E-09 | 2200 |

CROSSWIND INTEGRATED= 2.910E-03 SEC/SQ.M 4.073E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 48.0 | 0 | 0. | 0. | 3200 |
| | 50.0 | 0 | 0. | 0. | 3200 |
| | 52.0 | 5 | 1.932E-09 | 6.656E-09 | 3200 |
| S | 54.0 | 17 | 5.705E-09 | 1.997E-08 | 3200 |
| S | 56.0 | 7 | 2.309E-09 | 8.082E-09 | 3200 |
| | 58.0 | 43 | 1.413E-08 | 4.944E-08 | 3200 |
| | 60.0 | 165 | 5.379E-08 | 1.883E-07 | 3200 |
| | 62.0 | 1134 | 3.682E-07 | 1.289E-06 | 3200 |
| | 64.0 | 512 | 1.664E-07 | 5.824E-07 | 3200 |
| S | 66.0 | 673 | 2.186E-07 | 7.649E-07 | 3200 |
| | 68.0 | 708 | 2.300E-07 | 8.049E-07 | 3200 |
| | 70.0 | 1081 | 3.511E-07 | 1.229E-06 | 3200 |
| | 72.7 | 1728 | 5.611E-07 | 1.964E-06 | 3168 |
| | 73.7 | 1950 | 6.334E-07 | 2.217E-06 | 3170 |
| | 74.7 | 799 | 2.595E-07 | 9.082E-07 | 3172 |
| | 75.7 | 1320 | 4.286E-07 | 1.500E-06 | 3173 |
| | 76.8 | 994 | 3.230E-07 | 1.130E-06 | 3175 |
| | 77.8 | 923 | 2.998E-07 | 1.049E-06 | 3177 |
| | 78.8 | 1420 | 4.611E-07 | 1.614E-06 | 3179 |
| | 79.8 | 1872 | 6.079E-07 | 2.126E-06 | 3180 |
| | 80.8 | 812 | 2.637E-07 | 9.228E-07 | 3182 |
| | 81.8 | 613 | 1.992E-07 | 6.974E-07 | 3184 |
| | 82.8 | 792 | 2.572E-07 | 9.001E-07 | 3185 |
| | 83.8 | 612 | 1.988E-07 | 6.958E-07 | 3187 |
| | 84.8 | 495 | 1.608E-07 | 5.626E-07 | 3189 |
| | 85.8 | 672 | 2.182E-07 | 7.639E-07 | 3191 |
| | 86.8 | 353 | 1.149E-07 | 4.022E-07 | 3192 |
| | 87.8 | 449 | 1.460E-07 | 5.109E-07 | 3194 |
| | 88.8 | 137 | 4.448E-08 | 1.557E-07 | 3196 |
| | 89.8 | 181 | 5.885E-08 | 2.060E-07 | 3198 |
| | 90.8 | 82 | 2.688E-08 | 9.406E-08 | 3199 |
| | 91.8 | 189 | 6.163E-08 | 2.157E-07 | 3201 |
| | 92.8 | 128 | 4.170E-08 | 1.450E-07 | 3203 |
| | 93.8 | 0 | 0. | 0. | 3205 |

CROSSWIND INTEGRATED= 4.908E-04 SEC/SQ.M 1.718E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 48.0 | 0 | 0. | 0. | 3200 |
| | 50.0 | 12 | 4.635E-09 | 6.489E-09 | 3200 |
| | 52.0 | 426 | 1.541E-07 | 2.157E-07 | 3200 |
| T | 54.0 | 781 | 2.823E-07 | 3.952E-07 | 3200 |
| T | 56.0 | 939 | 3.393E-07 | 4.750E-07 | 3200 |
| 2 | 58.0 | 1275 | 4.603E-07 | 6.445E-07 | 3200 |
| 1 | 60.0 | 2228 | 8.046E-07 | 1.126E-06 | 3200 |
| | 62.0 | 2557 | 9.233E-07 | 1.293E-06 | 3200 |
| | 64.0 | 2360 | 8.520E-07 | 1.193E-06 | 3200 |
| T | 66.0 | 2360 | 8.520E-07 | 1.193E-06 | 3200 |
| | 68.0 | 2097 | 7.571E-07 | 1.060E-06 | 3200 |
| | 70.0 | 1294 | 4.675E-07 | 6.544E-07 | 3200 |
| | 72.7 | 1674 | 6.047E-07 | 8.466E-07 | 3168 |
| | 73.7 | 1091 | 3.941E-07 | 5.518E-07 | 3170 |
| | 74.7 | 133 | 4.821E-08 | 6.749E-08 | 3172 |
| | 75.7 | 686 | 2.480E-07 | 3.472E-07 | 3173 |
| | 76.8 | 334 | 1.207E-07 | 1.690E-07 | 3175 |
| | 77.8 | 345 | 1.246E-07 | 1.744E-07 | 3177 |
| | 78.8 | 238 | 8.600E-08 | 1.204E-07 | 3179 |
| | 79.8 | 291 | 1.053E-07 | 1.474E-07 | 3180 |
| | 80.8 | 117 | 4.242E-08 | 5.939E-08 | 3182 |
| | 81.8 | 69 | 2.507E-08 | 3.509E-08 | 3184 |
| | 82.8 | 88 | 3.201E-08 | 4.481E-08 | 3185 |
| | 83.8 | 85 | 3.065E-08 | 4.319E-08 | 3187 |
| | 84.8 | 69 | 2.507E-08 | 3.509E-08 | 3189 |
| | 85.8 | 66 | 2.391E-08 | 3.347E-08 | 3191 |
| | 86.8 | 59 | 1.427E-08 | 1.998E-08 | 3192 |
| | 87.8 | 26 | 9.641E-09 | 1.350E-08 | 3194 |
| | 88.8 | 32 | 1.157E-08 | 1.620E-08 | 3196 |
| | 89.8 | 14 | 5.399E-09 | 7.559E-09 | 3196 |
| | 90.8 | 10 | 3.779E-09 | 5.291E-09 | 3199 |

CROSSWIND INTEGRATED= 8.053E-04 SEC/SQ.M 1.127E-03 1/M



1202761

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 1047 | 3.532E-07 | 1.236E-06 | 4630 |
| 84.0 | 1 | 4.075E-10 | 1.426E-09 | 4620 |
| 86.0 | 133 | 4.333E-08 | 1.517E-07 | 4610 |
| 88.0 | 255 | 8.286E-08 | 2.900E-07 | 4610 |
| 90.0 | 196 | 6.371E-08 | 2.230E-07 | 4610 |
| 92.0 | 354 | 1.152E-07 | 4.032E-07 | 4620 |
| 94.0 | 45 | 1.467E-08 | 5.135E-08 | 4620 |
| 96.0 | 105 | 3.437E-08 | 1.203E-07 | 4620 |
| 98.0 | 5 | 1.630E-09 | 5.705E-09 | 4660 |
| 100.0 | 0 | 2.717E-10 | 9.508E-10 | 4690 |
| 102.0 | 0 | 0. | 0. | 4710 |

CROSSWIND INTEGRATED= 1.145E-04 SEC/SQ.M 4.007E-04 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 271 | 9.797E-08 | 1.372E-07 | 4630 |
| Z 84.0 | 3 | 1.311E-09 | 1.836E-09 | 4620 |
| 86.0 | 56 | 2.053E-08 | 2.874E-08 | 4610 |
| 88.0 | 26 | 9.677E-09 | 1.355E-08 | 4610 |
| 90.0 | 42 | 1.544E-08 | 2.162E-08 | 4610 |
| 92.0 | 17 | 6.399E-09 | 8.958E-09 | 4620 |
| 94.0 | 0 | 2.826E-10 | 3.957E-10 | 4620 |
| 96.0 | 14 | 5.268E-09 | 7.375E-09 | 4620 |

CROSSWIND INTEGRATED= 2.532E-05 SEC/SQ.M 3.544E-05 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 3.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 76.0 | 445 | 1.448E-07 | 5.068E-07 | 6280 |
| S 78.0 | 540 | 1.755E-07 | 6.147E-07 | 6300 |
| S 80.0 | 811 | 2.634E-07 | 9.218E-07 | 6400 |
| S 82.0 | 1895 | 6.155E-07 | 2.154E-06 | 6490 |
| E 84.0 | 2136 | 6.936E-07 | 2.427E-06 | 6500 |
| 86.0 | 691 | 2.247E-07 | 7.863E-07 | 6500 |
| 88.0 | 332 | 1.079E-07 | 3.775E-07 | 6480 |
| 90.0 | 287 | 9.345E-08 | 3.271E-07 | 6500 |
| 92.0 | 49 | 1.603E-08 | 5.610E-08 | 6490 |
| 94.0 | 24 | 8.014E-09 | 2.805E-08 | 6500 |
| 96.0 | 0 | 0. | 0. | 6510 |

CROSSWIND INTEGRATED= 5.280E-04 SEC/SQ.M 1.848E-03 1/M

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 1.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 76.0 | 384 | 1.389E-07 | 1.945E-07 | 6280 |
| S 78.0 | 378 | 1.366E-07 | 1.912E-07 | 6300 |
| S 80.0 | 266 | 9.619E-08 | 1.347E-07 | 6400 |
| 82.0 | 463 | 1.674E-07 | 2.344E-07 | 6490 |
| E 84.0 | 411 | 1.484E-07 | 2.078E-07 | 6500 |
| Z 86.0 | 101 | 3.660E-08 | 5.125E-08 | 6500 |
| Z 88.0 | 62 | 2.260E-08 | 3.164E-08 | 6480 |
| Z 90.0 | 35 | 1.276E-08 | 1.787E-08 | 6500 |
| Z 92.0 | 11 | 4.205E-09 | 5.998E-09 | 6490 |
| Z 94.0 | 17 | 6.206E-09 | 8.689E-09 | 6500 |

CROSSWIND INTEGRATED= 1.723E-04 SEC/SQ.M 2.412E-04 1/M



1202762

SAMPLING 400M TO 7000M, NO TOWERS. SAMPLER FAILURE IN MIDDLE OF 400M ARC LEAVES DATA HERE OF MINIMAL VALUE
SOME QUESTION ON THE MASS OF FLUORESCEIN EMITTED BECAUSE OF DISPERSAL PROBLEMS.
5000M AND 7000M ARCS TRUNCATED ON NORTH

TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 66.0 | 0 | 0. | 0. | 400 |
| | 70.0 | 116 | 3.595E-08 | 1.578E-07 | 400 |
| | 74.0 | 2551 | 7.826E-07 | 3.443E-06 | 400 |
| E | 78.0 | 10600 | 3.252E-06 | 1.431E-05 | 400 |
| E | 82.0 | 27118 | 8.319E-06 | 3.660E-05 | 400 |
| E | 86.0 | 32729 | 1.004E-05 | 4.417E-05 | 400 |
| E | 90.0 | 16831 | 5.163E-06 | 2.272E-05 | 400 |
| | 94.0 | 31168 | 9.561E-06 | 4.207E-05 | 400 |
| | 98.0 | 12808 | 3.929E-06 | 1.729E-05 | 400 |
| | 102.0 | 1793 | 5.501E-07 | 2.421E-06 | 400 |
| | 106.0 | 83 | 2.573E-08 | 1.132E-07 | 400 |
| | 110.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.163E-03 SEC/SQ.M 5.116E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 58.0 | 25 | 8.727E-09 | 2.007E-08 | 400 |
| | 62.0 | 33 | 1.126E-08 | 2.595E-08 | 400 |
| | 66.0 | 52 | 1.767E-08 | 4.065E-08 | 400 |
| | 70.0 | 6732 | 2.275E-06 | 5.231E-06 | 400 |
| | 74.0 | 33889 | 1.145E-05 | 2.633E-05 | 400 |
| E | 78.0 | 15455 | 5.221E-06 | 1.201E-05 | 400 |
| E | 82.0 | 7079 | 2.392E-06 | 5.501E-06 | 400 |
| E | 86.0 | 3470 | 1.172E-06 | 2.697E-06 | 400 |
| E | 90.0 | 1495 | 5.053E-07 | 1.162E-06 | 400 |
| | 94.0 | 2789 | 9.424E-07 | 2.166E-06 | 400 |
| | 98.0 | 90 | 3.067E-08 | 7.055E-08 | 400 |
| | 102.0 | 2 | 8.033E-10 | 1.846E-09 | 400 |

CROSSWIND INTEGRATED= 6.709E-04 SEC/SQ.M 1.543E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 67.0 | 0 | 0. | 0. | 800 |
| 70.0 | 13 | 4.219E-09 | 1.856E-08 | 800 |
| 73.0 | 2372 | 7.277E-07 | 3.202E-06 | 800 |
| 76.0 | 20552 | 6.304E-06 | 2.774E-05 | 800 |
| 79.0 | 41442 | 1.272E-05 | 5.599E-05 | 800 |
| 82.0 | 57756 | 1.772E-05 | 7.795E-05 | 800 |
| 85.0 | 14094 | 4.323E-06 | 1.902E-05 | 800 |
| 88.0 | 12299 | 3.773E-06 | 1.660E-05 | 800 |
| 91.0 | 28710 | 8.807E-06 | 3.875E-05 | 800 |
| 94.0 | 27291 | 8.372E-06 | 3.684E-05 | 800 |
| 97.0 | 19518 | 5.987E-06 | 2.634E-05 | 800 |
| 97.1 | 28799 | 8.834E-06 | 3.887E-05 | 806 |
| 99.1 | 13689 | 4.199E-06 | 1.846E-05 | 809 |
| 101.1 | 4868 | 1.500E-06 | 6.599E-06 | 813 |
| 103.0 | 1120 | 3.437E-07 | 1.512E-06 | 816 |
| 105.0 | 366 | 1.125E-07 | 4.952E-07 | 820 |
| 106.9 | 71 | 2.202E-08 | 9.688E-08 | 823 |
| 108.8 | 0 | 0. | 0. | 826 |

CROSSWIND INTEGRATED= 3.062E-03 SEC/SQ.M 1.347E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 67.0 | 0 | 0. | 0. | 800 |
| 70.0 | 153 | 5.194E-08 | 1.195E-07 | 800 |
| 73.0 | 9304 | 3.143E-06 | 7.230E-06 | 800 |
| 76.0 | 15432 | 5.214E-06 | 1.199E-05 | 800 |
| 79.0 | 10212 | 3.450E-06 | 7.935E-06 | 800 |
| 82.0 | 5377 | 1.817E-06 | 4.179E-06 | 800 |
| 85.0 | 1564 | 5.285E-07 | 1.216E-06 | 800 |
| 88.0 | 583 | 1.972E-07 | 4.536E-07 | 800 |
| 91.0 | 1042 | 3.521E-07 | 8.099E-07 | 800 |
| 94.0 | 747 | 2.524E-07 | 5.806E-07 | 800 |
| 97.0 | 120 | 4.074E-08 | 9.381E-08 | 800 |
| 97.1 | 1066 | 3.603E-07 | 8.288E-07 | 806 |
| 99.1 | 174 | 5.905E-08 | 1.358E-07 | 809 |
| 101.1 | 0 | 0. | 0. | 813 |

CROSSWIND INTEGRATED= 6.365E-04 SEC/SQ.M 1.464E-03 1/M



U67 1202763

TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 70.0 | 0 | 0. | 0. | 1200 |
| 72.0 | 860 | 2.639E-07 | 1.161E-06 | 1200 |
| 74.0 | 7360 | 2.258E-06 | 9.934E-06 | 1200 |
| 76.0 | 19545 | 5.996E-06 | 2.638E-05 | 1200 |
| 78.0 | 40055 | 1.229E-05 | 5.406E-05 | 1200 |
| 80.0 | 39240 | 1.204E-05 | 5.296E-05 | 1200 |
| 82.0 | 29174 | 8.949E-06 | 3.936E-05 | 1200 |
| 84.0 | 11852 | 3.636E-06 | 1.600E-05 | 1200 |
| 86.0 | 7691 | 2.359E-06 | 1.038E-05 | 1200 |
| 88.0 | 9765 | 2.996E-06 | 1.318E-05 | 1200 |
| 90.0 | 19281 | 5.915E-06 | 2.602E-05 | 1200 |
| 92.0 | 21961 | 6.737E-06 | 2.964E-05 | 1200 |
| 94.0 | 26056 | 7.993E-06 | 3.517E-05 | 1200 |
| 96.0 | 18693 | 5.734E-06 | 2.523E-05 | 1200 |
| 98.0 | 12108 | 3.714E-06 | 1.634E-05 | 1200 |
| 100.0 | 3269 | 1.003E-06 | 4.413E-06 | 1200 |
| 102.0 | 1283 | 3.938E-07 | 1.733E-06 | 1200 |
| 104.0 | 266 | 8.178E-08 | 3.596E-07 | 1200 |
| 106.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 3.450E-03 SEC/SQ.M 1.518E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 66.0 | 0 | 0. | 0. | 1600 |
| 68.0 | 16 | 4.941E-09 | 2.174E-08 | 1600 |
| 70.0 | 427 | 1.312E-07 | 5.772E-07 | 1600 |
| 72.0 | 2219 | 6.809E-07 | 2.996E-06 | 1600 |
| 74.0 | 6487 | 1.990E-06 | 8.755E-06 | 1600 |
| 76.0 | 14276 | 4.379E-06 | 1.927E-05 | 1600 |
| 78.0 | 19353 | 5.937E-06 | 2.612E-05 | 1600 |
| 80.0 | 9316 | 2.858E-06 | 1.257E-05 | 1600 |
| 82.0 | 14700 | 4.509E-06 | 1.984E-05 | 1600 |
| 84.0 | 3503 | 1.075E-06 | 4.729E-06 | 1600 |
| 86.0 | 4072 | 1.249E-06 | 5.496E-06 | 1600 |
| 88.0 | 2706 | 8.301E-07 | 3.653E-06 | 1600 |
| 90.0 | 5703 | 1.749E-06 | 7.696E-06 | 1600 |
| 92.0 | 9554 | 2.931E-06 | 1.290E-05 | 1600 |
| 93.6 | 25309 | 7.762E-06 | 3.424E-05 | 1603 |
| 94.0 | 6081 | 1.865E-06 | 8.206E-06 | 1600 |
| 94.6 | 15593 | 4.785E-06 | 2.105E-05 | 1604 |
| 95.6 | 13919 | 4.270E-06 | 1.879E-05 | 1606 |
| 96.6 | 15119 | 4.638E-06 | 2.041E-05 | 1608 |
| 97.6 | 14003 | 4.295E-06 | 1.890E-05 | 1610 |
| 98.6 | 9527 | 2.923E-06 | 1.286E-05 | 1611 |
| 99.6 | 3898 | 1.196E-06 | 5.262E-06 | 1613 |
| 100.6 | 3675 | 1.127E-06 | 4.950E-06 | 1515 |
| 101.6 | 1996 | 6.125E-07 | 2.695E-06 | 1617 |
| 102.6 | 1024 | 3.142E-07 | 1.382E-06 | 1618 |
| 103.6 | 335 | 1.030E-07 | 4.530E-07 | 1620 |
| 104.5 | 131 | 4.048E-08 | 1.781E-07 | 1622 |
| 105.5 | 0 | 0. | 0. | 1623 |

CROSSWIND INTEGRATED= 2.465E-03 SEC/SQ.M 1.084E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 66.0 | 8 | 2.811E-09 | 6.464E-09 | 1200 |
| 68.0 | 9 | 3.361E-09 | 7.729E-09 | 1200 |
| 70.0 | 21 | 7.373E-09 | 1.696E-08 | 1200 |
| 72.0 | 986 | 3.332E-07 | 7.665E-07 | 1200 |
| 74.0 | 4050 | 1.368E-06 | 3.147E-06 | 1200 |
| 76.0 | 6708 | 2.266E-06 | 5.213E-06 | 1200 |
| 78.0 | 4429 | 1.497E-06 | 3.442E-06 | 1200 |
| 80.0 | 1670 | 5.642E-07 | 1.298E-06 | 1200 |
| 82.0 | 1024 | 3.461E-07 | 7.960E-07 | 1200 |
| 84.0 | 167 | 5.666E-08 | 1.303E-07 | 1200 |
| 86.0 | 116 | 3.935E-08 | 9.050E-08 | 1200 |
| 88.0 | 111 | 3.752E-08 | 8.629E-08 | 1200 |
| 90.0 | 288 | 9.739E-08 | 2.240E-07 | 1200 |
| 92.0 | 312 | 1.055E-07 | 2.427E-07 | 1200 |
| 94.0 | 384 | 1.300E-07 | 2.990E-07 | 1200 |
| 96.0 | 179 | 6.073E-08 | 1.397E-07 | 1200 |
| 98.0 | 28 | 9.613E-09 | 2.211E-08 | 1200 |
| 100.0 | 0 | 1.018E-10 | 2.342E-10 | 1200 |

CROSSWIND INTEGRATED= 2.901E-04 SEC/SQ.M 6.672E-04 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 4 | 1.426E-09 | 3.279E-09 | 1600 |
| 64.0 | 6 | 2.342E-09 | 5.387E-09 | 1600 |
| 66.0 | 6 | 2.281E-09 | 5.247E-09 | 1600 |
| 68.0 | 12 | 4.359E-09 | 1.002E-08 | 1600 |
| 70.0 | 454 | 1.536E-07 | 3.532E-07 | 1600 |
| 72.0 | 2467 | 8.336E-07 | 1.917E-06 | 1600 |
| 74.0 | 5062 | 1.710E-06 | 3.934E-06 | 1600 |
| 76.0 | 2695 | 9.106E-07 | 2.094E-06 | 1600 |
| 78.0 | 2087 | 7.053E-07 | 1.622E-06 | 1600 |
| 80.0 | 910 | 3.075E-07 | 7.073E-07 | 1600 |
| 82.0 | 312 | 1.055E-07 | 2.427E-07 | 1600 |
| 84.0 | 288 | 9.735E-08 | 2.239E-07 | 1600 |
| 86.0 | 67 | 2.281E-08 | 5.247E-08 | 1600 |
| 88.0 | 42 | 1.426E-08 | 3.279E-08 | 1600 |
| 90.0 | 109 | 3.646E-08 | 8.479E-08 | 1600 |
| 92.0 | 294 | 9.939E-08 | 2.286E-07 | 1600 |
| 93.6 | 372 | 1.259E-07 | 2.896E-07 | 1603 |
| 94.0 | 233 | 7.902E-08 | 1.818E-07 | 1600 |
| 94.6 | 138 | 4.692E-08 | 1.079E-07 | 1604 |
| 95.6 | 231 | 7.804E-08 | 1.795E-07 | 1606 |
| 96.6 | 40 | 1.365E-08 | 3.139E-08 | 1608 |
| 97.6 | 105 | 3.575E-08 | 8.223E-08 | 1610 |
| 98.6 | 1 | 6.384E-10 | 1.468E-09 | 1611 |

CROSSWIND INTEGRATED= 2.884E-04 SEC/SQ.M 6.633E-04 1/M



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TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 66.0 | 0 | 0. | 0. | 2200 |
| | 68.0 | 125 | 3.837E-08 | 1.688E-07 | 2200 |
| E | 70.0 | 251 | 7.700E-08 | 3.388E-07 | 2200 |
| | 72.0 | 3339 | 1.024E-06 | 4.507E-06 | 2200 |
| | 74.0 | 6833 | 2.096E-06 | 9.223E-06 | 2200 |
| | 76.0 | 9879 | 3.030E-06 | 1.333E-05 | 2200 |
| | 78.0 | 10294 | 3.158E-06 | 1.389E-05 | 2200 |
| | 80.0 | 8338 | 2.558E-06 | 1.125E-05 | 2200 |
| | 82.0 | 4176 | 1.281E-06 | 5.637E-06 | 2200 |
| W | 84.0 | 4266 | 1.309E-06 | 5.758E-06 | 2200 |
| | 86.0 | 820 | 2.518E-07 | 1.108E-06 | 2200 |
| | 88.0 | 3771 | 1.157E-06 | 5.090E-06 | 2200 |
| | 90.0 | 1904 | 5.849E-07 | 2.571E-06 | 2200 |
| | 92.0 | 5759 | 1.767E-06 | 7.774E-06 | 2200 |
| | 94.0 | 5251 | 1.611E-06 | 7.088E-06 | 2200 |
| | 96.0 | 4392 | 1.347E-06 | 5.928E-06 | 2200 |
| | 98.0 | 1386 | 4.254E-07 | 1.872E-06 | 2200 |
| | 100.0 | 1533 | 4.703E-07 | 2.070E-06 | 2200 |
| | 102.0 | 222 | 6.815E-08 | 2.998E-07 | 2200 |
| | 104.0 | 0 | 2.567E-10 | 1.129E-09 | 2200 |
| | 106.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.709E-03 SEC/SQ.M 7.520E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 66.0 | 2 | 8.252E-10 | 1.898E-09 | 2200 |
| | 68.0 | 86 | 2.937E-08 | 6.755E-08 | 2200 |
| P | 70.0 | 0 | 9.521E-11 | 2.190E-10 | 2200 |
| | 72.0 | 1360 | 4.596E-07 | 1.057E-06 | 2200 |
| | 74.0 | 2169 | 7.329E-07 | 1.686E-06 | 2200 |
| | 76.0 | 1643 | 5.552E-07 | 1.277E-06 | 2200 |
| | 78.0 | 1064 | 3.596E-07 | 8.272E-07 | 2200 |
| | 80.0 | 299 | 1.013E-07 | 2.330E-07 | 2200 |
| | 82.0 | 190 | 6.428E-08 | 1.478E-07 | 2200 |
| W | 84.0 | 50 | 1.720E-08 | 3.956E-08 | 2200 |
| | 86.0 | 15 | 5.353E-09 | 1.231E-08 | 2200 |
| | 88.0 | 35 | 1.212E-08 | 2.788E-08 | 2200 |
| | 90.0 | 27 | 9.267E-09 | 2.131E-08 | 2200 |
| 3 | 92.0 | 124 | 4.206E-08 | 9.674E-08 | 2200 |
| | 94.0 | 133 | 4.524E-08 | 1.040E-07 | 2200 |
| | 96.0 | 50 | 1.720E-08 | 3.956E-08 | 2200 |
| | 98.0 | 33 | 1.117E-08 | 2.569E-08 | 2200 |
| | 100.0 | 1 | 6.347E-10 | 1.460E-09 | 2200 |

CROSSWIND INTEGRATED= 1.892E-04 SEC/SQ.M 4.351E-04 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 64.0 | 0 | 0. | 0. | 3200 |
| | 66.0 | 0 | 2.567E-10 | 1.129E-09 | 3200 |
| | 68.0 | 788 | 2.419E-07 | 1.064E-06 | 3200 |
| S | 70.0 | 2006 | 6.155E-07 | 2.708E-06 | 3200 |
| | 72.7 | 8936 | 2.741E-06 | 1.206E-05 | 3168 |
| | 73.7 | 11240 | 3.448E-06 | 1.517E-05 | 3170 |
| | 74.7 | 15039 | 4.613E-06 | 2.030E-05 | 3172 |
| | 75.7 | 15419 | 4.730E-06 | 2.081E-05 | 3173 |
| | 76.8 | 14770 | 4.531E-06 | 1.994E-05 | 3175 |
| | 77.8 | 14274 | 4.379E-06 | 1.927E-05 | 3177 |
| | 78.8 | 12710 | 3.899E-06 | 1.715E-05 | 3179 |
| | 79.8 | 12757 | 3.913E-06 | 1.722E-05 | 3180 |
| | 80.8 | 10058 | 3.085E-06 | 1.358E-05 | 3182 |
| | 81.8 | 9609 | 2.948E-06 | 1.297E-05 | 3184 |
| | 82.8 | 5964 | 1.830E-06 | 8.050E-06 | 3185 |
| | 83.8 | 5090 | 1.561E-06 | 6.870E-06 | 3187 |
| | 84.8 | 4683 | 1.437E-06 | 6.322E-06 | 3189 |
| | 85.8 | 4624 | 1.418E-06 | 6.241E-06 | 3191 |
| | 86.8 | 5536 | 1.698E-06 | 7.472E-06 | 3192 |
| | 87.8 | 6040 | 1.853E-06 | 8.153E-06 | 3194 |
| | 88.8 | 4988 | 1.530E-06 | 6.733E-06 | 3196 |
| | 89.8 | 6482 | 1.989E-06 | 8.749E-06 | 3198 |
| | 90.8 | 4745 | 1.456E-06 | 6.404E-06 | 3199 |
| | 91.8 | 4401 | 1.350E-06 | 5.940E-06 | 3201 |
| | 92.8 | 7320 | 2.246E-06 | 9.881E-06 | 3203 |
| | 93.8 | 8363 | 2.565E-06 | 1.129E-05 | 3205 |
| | 94.8 | 8412 | 2.580E-06 | 1.135E-05 | 3206 |
| | 95.8 | 6615 | 2.029E-06 | 8.929E-06 | 3208 |
| | 96.8 | 6423 | 1.970E-06 | 8.670E-06 | 3210 |
| | 97.8 | 4910 | 1.506E-06 | 6.628E-06 | 3212 |
| | 98.8 | 3302 | 1.013E-06 | 4.458E-06 | 3213 |
| | 99.8 | 347 | 1.067E-07 | 4.696E-07 | 3215 |
| | 100.8 | 218 | 6.713E-08 | 2.954E-07 | 3217 |
| | 101.8 | 10 | 3.335E-09 | 1.468E-08 | 3218 |

CROSSWIND INTEGRATED= 4.072E-03 SEC/SQ.M 1.792E-02 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 3 | 66.0 | 1 | 5.395E-10 | 1.241E-09 | 3200 |
| 2 | 68.0 | 224 | 7.585E-08 | 1.745E-07 | 3200 |
| S | 70.0 | 847 | 2.863E-07 | 6.584E-07 | 3200 |
| | 72.7 | 1614 | 5.453E-07 | 1.254E-06 | 3168 |
| | 73.7 | 1367 | 4.620E-07 | 1.063E-06 | 3170 |
| | 74.7 | 1614 | 5.453E-07 | 1.254E-06 | 3172 |
| | 75.7 | 1502 | 5.074E-07 | 1.167E-06 | 3173 |
| | 76.8 | 1035 | 3.497E-07 | 8.044E-07 | 3175 |
| | 77.8 | 736 | 2.487E-07 | 5.720E-07 | 3177 |
| | 78.8 | 501 | 1.693E-07 | 3.894E-07 | 3179 |
| | 79.8 | 757 | 2.559E-07 | 5.886E-07 | 3180 |
| | 80.8 | 319 | 1.079E-07 | 2.482E-07 | 3182 |
| | 81.8 | 130 | 4.406E-08 | 1.013E-07 | 3184 |
| | 82.8 | 38 | 1.302E-08 | 2.995E-08 | 3185 |
| | 83.8 | 34 | 1.158E-08 | 2.663E-08 | 3187 |
| | 84.8 | 37 | 1.266E-08 | 2.912E-08 | 3189 |
| | 85.8 | 16 | 5.731E-09 | 1.318E-08 | 3191 |
| | 86.8 | 16 | 5.514E-09 | 1.268E-08 | 3192 |
| | 87.8 | 55 | 1.880E-08 | 4.323E-08 | 3194 |
| | 88.8 | 10 | 3.457E-09 | 7.952E-09 | 3196 |
| | 89.8 | 16 | 5.731E-09 | 1.318E-08 | 3198 |
| | 90.8 | 20 | 6.814E-09 | 1.567E-08 | 3199 |
| | 91.8 | 34 | 1.158E-08 | 2.663E-08 | 3201 |
| | 92.8 | 48 | 1.627E-08 | 3.742E-08 | 3203 |
| | 93.8 | 79 | 2.673E-08 | 6.149E-08 | 3205 |
| | 94.8 | 82 | 2.782E-08 | 6.398E-08 | 3206 |
| | 95.8 | 49 | 1.663E-08 | 3.825E-08 | 3208 |
| | 96.8 | 37 | 1.266E-08 | 2.912E-08 | 3210 |
| | 97.8 | 9 | 3.241E-09 | 7.454E-09 | 3212 |
| | 98.8 | 1 | 6.424E-10 | 1.477E-09 | 3213 |

CROSSWIND INTEGRATED= 2.644E-04 SEC/SQ.M 6.082E-04 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 6070 | 1.862E-06 | 8.193E-06 | 4630 |
| | 84.0 | 961 | 2.950E-07 | 1.298E-06 | 4620 |
| | 86.0 | 2242 | 6.879E-07 | 3.027E-06 | 4610 |
| | 88.0 | 675 | 2.073E-07 | 9.119E-07 | 4610 |
| | 90.0 | 968 | 2.970E-07 | 1.307E-06 | 4610 |
| | 92.0 | 347 | 1.065E-07 | 4.687E-07 | 4620 |
| | 94.0 | 1003 | 3.079E-07 | 1.355E-06 | 4620 |
| | 96.0 | 402 | 1.236E-07 | 5.438E-07 | 4620 |
| | 98.0 | 717 | 2.201E-07 | 9.684E-07 | 4660 |
| | 100.0 | 46 | 1.412E-08 | 6.211E-08 | 4690 |
| | 102.0 | 4 | 1.283E-09 | 5.647E-09 | 4710 |

CROSSWIND INTEGRATED= 6.654E-04 SEC/SQ.M 2.928E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 227 | 7.690E-08 | 1.769E-07 | 4630 |
| | 84.0 | 133 | 4.516E-08 | 1.039E-07 | 4620 |
| | 86.0 | 58 | 1.967E-08 | 4.523E-08 | 4610 |
| | 88.0 | 14 | 4.962E-09 | 1.141E-08 | 4610 |
| | 90.0 | 9 | 3.375E-09 | 7.762E-09 | 4610 |
| 1 | 92.0 | 22 | 7.606E-09 | 1.749E-08 | 4620 |
| | 94.0 | 12 | 4.327E-09 | 9.952E-09 | 4620 |
| | 96.0 | 30 | 1.046E-08 | 2.406E-08 | 4620 |
| | 98.0 | 4 | 1.449E-09 | 3.333E-09 | 4660 |
| | 100.0 | 0 | 1.164E-10 | 2.677E-10 | 4690 |

CROSSWIND INTEGRATED= 2.808E-05 SEC/SQ.M 6.459E-05 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 76.0 | 2641 | 8.104E-07 | 3.566E-06 | 6260 |
| | 78.0 | 5235 | 1.605E-06 | 7.056E-06 | 6300 |
| | 80.0 | 1797 | 5.513E-07 | 2.426E-06 | 6400 |
| | 82.0 | 3310 | 1.016E-06 | 4.466E-06 | 6490 |
| | 84.0 | 1249 | 3.832E-07 | 1.686E-06 | 6500 |
| | 86.0 | 449 | 1.380E-07 | 6.070E-07 | 6500 |
| | 88.0 | 647 | 1.985E-07 | 8.735E-07 | 6480 |
| | 90.0 | 239 | 7.354E-08 | 3.236E-07 | 6500 |
| | 92.0 | 698 | 2.142E-07 | 9.424E-07 | 6490 |
| | 94.0 | 714 | 2.192E-07 | 9.645E-07 | 6500 |
| | 96.0 | 616 | 1.892E-07 | 8.323E-07 | 6510 |
| | 98.0 | 219 | 6.738E-08 | 2.965E-07 | 6520 |
| | 100.0 | 9 | 2.823E-09 | 1.242E-08 | 6560 |
| | 102.0 | 11 | 3.593E-09 | 1.581E-08 | 6610 |
| | 104.0 | 5 | 1.540E-09 | 6.776E-09 | 6650 |
| | 106.0 | 4 | 1.283E-09 | 5.647E-09 | 6720 |
| | 108.0 | 0 | 0. | 0. | 6800 |

CROSSWIND INTEGRATED= 1.223E-03 SEC/SQ.M 5.379E-03 1/M

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 2.3 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 76.0 | 426 | 1.442E-07 | 3.316E-07 | 6280 |
| | 78.0 | 347 | 1.175E-07 | 2.703E-07 | 6300 |
| | 80.0 | 290 | 9.814E-08 | 2.257E-07 | 6400 |
| | 82.0 | 249 | 8.439E-08 | 1.941E-07 | 6490 |
| | 84.0 | 155 | 5.265E-08 | 1.211E-07 | 6500 |
| | 86.0 | 38 | 1.309E-08 | 3.010E-08 | 6500 |
| | 88.0 | 34 | 1.182E-08 | 2.718E-08 | 6480 |
| | 90.0 | 14 | 5.046E-09 | 1.161E-08 | 6500 |
| | 92.0 | 5 | 1.756E-09 | 4.039E-09 | 6490 |
| | 94.0 | 7 | 2.401E-09 | 5.523E-09 | 6500 |
| | 96.0 | 3 | 1.312E-09 | 3.017E-09 | 6510 |
| | 98.0 | 2 | 8.675E-10 | 1.995E-09 | 6520 |
| | 100.0 | 1 | 3.914E-10 | 9.003E-10 | 6560 |
| | 102.0 | 0 | 2.433E-10 | 5.596E-10 | 6610 |
| 2 | 104.0 | 2 | 9.310E-10 | 2.141E-09 | 6650 |

CROSSWIND INTEGRATED= 1.190E-04 SEC/SQ.M 2.737E-04 1/M



1202766

SAMPLING FROM 400M TO 1200M. NO TOWER SAMPLING. BIMODAL DISTRIBUTIONS.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER EXCEPT 7000M ARC. ALSO, ALTHOUGH 1200M ARC DROPS TO BACKGROUND VALUES AT NORTH EXTREMITY OF SAMPLING, THERE MAY HAVE BEEN MORE TRACER NORTH OF THE SAMPLERS.

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 78.0 | 0 | 0. | 0. | 400 |
| 82.0 | 53 | 1.708E-08 | 8.628E-08 | 400 |
| 86.0 | 970 | 3.092E-07 | 1.453E-06 | 400 |
| 90.0 | 14762 | 4.701E-06 | 2.210E-05 | 400 |
| 94.0 | 24045 | 7.658E-06 | 3.599E-05 | 400 |
| 98.0 | 19367 | 6.168E-06 | 2.899E-05 | 400 |
| 102.0 | 9716 | 3.094E-06 | 1.454E-05 | 400 |
| 106.0 | 13557 | 4.318E-06 | 2.029E-05 | 400 |
| 110.0 | 59432 | 1.893E-05 | 8.896E-05 | 400 |
| 4 114.0 | 24176 | 7.700E-06 | 3.619E-05 | 400 |
| 118.0 | 3372 | 1.074E-06 | 5.048E-06 | 400 |
| 122.0 | 22 | 7.008E-09 | 3.294E-08 | 400 |
| 126.0 | 1 | 4.380E-10 | 2.059E-09 | 400 |
| 130.0 | 9 | 3.066E-09 | 1.441E-08 | 400 |
| 134.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.507E-03 SEC/SQ.M 7.084E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 74.0 | 1 | 5.404E-10 | 1.297E-09 | 400 |
| 78.0 | 148 | 4.627E-08 | 1.111E-07 | 400 |
| 82.0 | 17593 | 5.498E-06 | 1.319E-05 | 400 |
| 86.0 | 119485 | 3.734E-05 | 8.961E-05 | 400 |
| 90.0 | 108622 | 3.394E-05 | 6.147E-05 | 400 |
| 94.0 | 46922 | 1.466E-05 | 3.519E-05 | 400 |
| 98.0 | 30628 | 9.571E-06 | 2.297E-05 | 400 |
| 102.0 | 110795 | 3.462E-05 | 8.310E-05 | 400 |
| 106.0 | 417124 | 1.304E-04 | 3.126E-04 | 400 |
| 110.0 | 521406 | 1.629E-04 | 3.911E-04 | 400 |
| 4 114.0 | 143383 | 4.481E-05 | 1.075E-04 | 400 |
| 118.0 | 1380 | 4.313E-07 | 1.035E-06 | 400 |
| 122.0 | 19 | 6.060E-09 | 1.459E-08 | 400 |
| 126.0 | 73 | 2.297E-08 | 5.512E-08 | 400 |
| 130.0 | 28 | 8.762E-09 | 2.108E-08 | 400 |
| 134.0 | 9 | 2.702E-09 | 6.485E-09 | 400 |
| 138.0 | 13 | 4.222E-09 | 1.013E-08 | 400 |
| 142.0 | 13 | 4.222E-09 | 1.013E-08 | 400 |

CROSSWIND INTEGRATED= 1.324E-02 SEC/SQ.M 3.179E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 0 | 0. | 0. | 800 |
| 85.0 | 70 | 2.234E-08 | 1.050E-07 | 800 |
| 88.0 | 1798 | 5.724E-07 | 2.693E-06 | 800 |
| 91.0 | 12405 | 3.951E-06 | 1.857E-05 | 800 |
| 94.0 | 19643 | 6.256E-06 | 2.940E-05 | 800 |
| 97.0 | 33282 | 1.060E-05 | 4.982E-05 | 806 |
| 97.1 | 40932 | 1.303E-05 | 6.122E-05 | 806 |
| 99.1 | 21186 | 6.747E-06 | 3.171E-05 | 809 |
| 101.1 | 19563 | 6.230E-06 | 2.928E-05 | 813 |
| 103.0 | 15352 | 4.902E-06 | 2.304E-05 | 816 |
| 105.0 | 11077 | 3.526E-06 | 1.656E-05 | 820 |
| 106.9 | 42445 | 1.352E-05 | 6.353E-05 | 823 |
| 108.8 | 108521 | 3.455E-05 | 1.624E-04 | 826 |
| 110.7 | 135660 | 4.321E-05 | 2.031E-04 | 829 |
| 112.6 | 97982 | 3.120E-05 | 1.467E-04 | 833 |
| 114.5 | 48179 | 1.534E-05 | 7.212E-05 | 836 |
| 116.4 | 5590 | 1.781E-06 | 8.368E-06 | 839 |
| 118.3 | 131 | 4.191E-08 | 1.970E-07 | 842 |
| 120.2 | 0 | 0. | 0. | 845 |

CROSSWIND INTEGRATED= 5.313E-03 SEC/SQ.M 2.497E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 519 | 1.625E-07 | 3.699E-07 | 800 |
| 85.0 | 4339 | 2.419E-06 | 7.005E-06 | 800 |
| 88.0 | 44966 | 1.561E-05 | 3.747E-05 | 800 |
| 91.0 | 54311 | 1.697E-05 | 4.073E-05 | 800 |
| 94.0 | 27371 | 8.554E-06 | 2.055E-05 | 800 |
| 97.0 | 17595 | 5.499E-06 | 1.320E-05 | 800 |
| 97.1 | 20612 | 6.441E-06 | 1.546E-05 | 806 |
| 99.1 | 17356 | 5.424E-06 | 1.302E-05 | 809 |
| 101.1 | 27647 | 8.702E-06 | 2.089E-05 | 813 |
| 103.0 | 18442 | 5.763E-06 | 1.383E-05 | 816 |
| 105.0 | 56146 | 1.755E-05 | 4.211E-05 | 820 |
| 106.9 | 201570 | 6.299E-05 | 1.512E-04 | 823 |
| 108.8 | 237566 | 7.424E-05 | 1.782E-04 | 826 |
| 110.7 | 143977 | 4.499E-05 | 1.080E-04 | 829 |
| 112.6 | 64785 | 2.025E-05 | 4.859E-05 | 833 |
| 114.5 | 11049 | 3.453E-06 | 8.287E-06 | 836 |
| 116.4 | 669 | 2.093E-07 | 5.023E-07 | 839 |
| 119.3 | 26 | 8.171E-09 | 1.961E-08 | 842 |
| 120.2 | 5 | 1.567E-09 | 3.761E-09 | 845 |
| 122.1 | 8 | 2.798E-09 | 6.716E-09 | 848 |
| 124.0 | 136 | 4.253E-08 | 1.021E-07 | 851 |

CROSSWIND INTEGRATED= 8.762E-03 SEC/SQ.M 2.103E-02 1/M



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TEST U69 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.0 | 0 | 0. | 0. | 1200 |
| 86.0 | 95 | 3.027E-08 | 1.423E-07 | 1200 |
| 88.0 | 1164 | 3.714E-07 | 1.746E-06 | 1200 |
| 90.0 | 6420 | 2.045E-06 | 9.611E-06 | 1200 |
| 92.0 | 10524 | 3.352E-06 | 1.575E-05 | 1200 |
| 94.0 | 22975 | 7.317E-06 | 3.439E-05 | 1200 |
| 96.0 | 28793 | 9.170E-06 | 4.310E-05 | 1200 |
| 98.0 | 24308 | 7.742E-06 | 3.639E-05 | 1200 |
| 100.0 | 16066 | 5.117E-06 | 2.405E-05 | 1200 |
| 102.0 | 15223 | 4.848E-06 | 2.279E-05 | 1200 |
| 104.0 | 9965 | 3.174E-06 | 1.492E-05 | 1200 |
| 106.0 | 11722 | 3.733E-06 | 1.755E-05 | 1200 |
| 108.0 | 44186 | 1.407E-05 | 6.614E-05 | 1200 |
| 110.0 | 92220 | 2.937E-05 | 1.380E-04 | 1200 |
| 112.0 | 68767 | 2.190E-05 | 1.029E-04 | 1200 |
| 114.0 | 25562 | 8.141E-06 | 3.826E-05 | 1200 |
| 0 116.0 | 731 | 2.329E-07 | 1.095E-06 | 1200 |
| 118.0 | 111 | 3.565E-08 | 1.676E-07 | 1200 |
| 4 120.0 | 14 | 4.617E-09 | 2.170E-08 | 1200 |
| 122.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 5.054E-03 SEC/SQ.M 2.375E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 80.0 | 0 | 0. | 0. | 1200 |
| 82.0 | 9 | 2.920E-09 | 7.006E-09 | 1200 |
| 84.0 | 909 | 2.843E-07 | 6.822E-07 | 1200 |
| 86.0 | 7122 | 2.226E-06 | 5.342E-06 | 1200 |
| 88.0 | 22173 | 6.929E-06 | 1.663E-05 | 1200 |
| 90.0 | 30291 | 9.466E-06 | 2.272E-05 | 1200 |
| 92.0 | 27668 | 8.709E-06 | 2.090E-05 | 1200 |
| 94.0 | 21809 | 6.816E-06 | 1.636E-05 | 1200 |
| 96.0 | 12357 | 3.862E-06 | 9.264E-06 | 1200 |
| 98.0 | 10044 | 3.139E-06 | 7.534E-06 | 1200 |
| 100.0 | 9314 | 2.911E-06 | 6.986E-06 | 1200 |
| 102.0 | 9131 | 2.854E-06 | 6.849E-06 | 1200 |
| 104.0 | 11140 | 3.481E-06 | 8.356E-06 | 1200 |
| 106.0 | 33927 | 1.060E-05 | 2.545E-05 | 1200 |
| 108.0 | 86032 | 2.689E-05 | 6.452E-05 | 1200 |
| 110.0 | 71491 | 2.234E-05 | 5.362E-05 | 1200 |
| 112.0 | 21082 | 6.588E-06 | 1.581E-05 | 1200 |
| 114.0 | 4302 | 1.345E-06 | 3.227E-06 | 1200 |
| 0 116.0 | 207 | 6.464E-08 | 1.553E-07 | 1200 |
| 118.0 | 30 | 9.401E-09 | 2.256E-08 | 1200 |
| 4 120.0 | 2 | 7.724E-10 | 1.854E-09 | 1200 |

CROSSWIND INTEGRATED= 4.964E-03 SEC/SQ.M 1.191E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.0 | 0 | 0. | 0. | 1600 |
| 86.0 | 18 | 5.900E-09 | 2.773E-08 | 1600 |
| 88.0 | 348 | 1.065E-07 | 5.100E-07 | 1600 |
| 90.0 | 2190 | 6.977E-07 | 3.279E-06 | 1600 |
| 92.0 | 6275 | 1.999E-06 | 9.394E-06 | 1600 |
| 93.6 | 14929 | 4.723E-06 | 2.220E-05 | 1603 |
| 94.0 | 10300 | 3.440E-06 | 1.617E-05 | 1600 |
| 94.6 | 16499 | 5.254E-06 | 2.470E-05 | 1604 |
| 95.6 | 14588 | 4.646E-06 | 2.184E-05 | 1606 |
| 96.6 | 18805 | 5.989E-06 | 2.815E-05 | 1608 |
| 97.6 | 22231 | 7.080E-06 | 3.329E-05 | 1610 |
| 98.6 | 16413 | 5.227E-06 | 2.457E-05 | 1611 |
| 99.6 | 20727 | 6.601E-06 | 3.103E-05 | 1613 |
| 100.6 | 16946 | 5.395E-06 | 2.536E-05 | 1615 |
| 101.6 | 15553 | 4.955E-06 | 2.329E-05 | 1617 |
| 102.6 | 9318 | 2.968E-06 | 1.395E-05 | 1618 |
| 103.6 | 9341 | 2.975E-06 | 1.398E-05 | 1620 |
| 104.5 | 7918 | 2.518E-06 | 1.183E-05 | 1622 |
| 105.5 | 6262 | 1.995E-06 | 9.374E-06 | 1623 |
| 106.5 | 12875 | 4.101E-06 | 1.927E-05 | 1625 |
| 107.5 | 27231 | 8.673E-06 | 4.076E-05 | 1627 |
| 108.5 | 33434 | 1.065E-05 | 5.004E-05 | 1628 |
| 109.5 | 63795 | 2.032E-05 | 9.549E-05 | 1630 |
| 110.4 | 68848 | 2.193E-05 | 1.031E-04 | 1632 |
| 111.4 | 59253 | 1.888E-05 | 8.874E-05 | 1633 |
| 112.4 | 43024 | 1.370E-05 | 6.440E-05 | 1635 |
| 113.4 | 24204 | 7.709E-06 | 3.623E-05 | 1637 |
| 114.4 | 10595 | 3.370E-06 | 1.631E-05 | 1638 |
| 115.3 | 4179 | 1.331E-06 | 6.257E-06 | 1640 |
| 116.3 | 487 | 1.553E-07 | 7.300E-07 | 1641 |
| 117.3 | 31 | 1.005E-08 | 4.724E-09 | 1643 |

CROSSWIND INTEGRATED= 4.946E-03 SEC/SQ.M 2.324E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 0 | 1.130E-10 | 2.713E-10 | 1600 |
| 84.0 | 81 | 2.543E-08 | 6.104E-08 | 1600 |
| 86.0 | 1781 | 5.567E-07 | 1.336E-06 | 1600 |
| 88.0 | 6902 | 2.157E-06 | 5.178E-06 | 1600 |
| 90.0 | 11265 | 3.521E-06 | 8.450E-06 | 1600 |
| 92.0 | 14537 | 4.543E-06 | 1.090E-05 | 1600 |
| 93.6 | 15499 | 4.844E-06 | 1.162E-05 | 1603 |
| 94.0 | 10175 | 3.180E-06 | 7.631E-06 | 1600 |
| 94.6 | 11672 | 3.651E-06 | 8.762E-06 | 1604 |
| 95.6 | 7582 | 2.369E-06 | 5.687E-06 | 1606 |
| 96.6 | 8921 | 2.788E-06 | 6.691E-06 | 1608 |
| 97.6 | 6699 | 2.093E-06 | 5.023E-06 | 1610 |
| 98.6 | 6980 | 2.181E-06 | 5.236E-06 | 1611 |
| 99.6 | 5052 | 1.579E-06 | 3.789E-06 | 1613 |
| 100.6 | 5349 | 1.672E-06 | 4.013E-06 | 1615 |
| 101.6 | 6093 | 1.904E-06 | 4.570E-06 | 1617 |
| 102.6 | 4456 | 1.393E-06 | 3.343E-06 | 1618 |
| 103.6 | 4456 | 1.393E-06 | 3.343E-06 | 1620 |
| 104.5 | 5349 | 1.672E-06 | 4.013E-06 | 1622 |
| 105.5 | 7443 | 2.327E-06 | 5.585E-06 | 1623 |
| 106.5 | 22781 | 7.119E-06 | 1.709E-05 | 1625 |
| 107.5 | 38449 | 1.202E-05 | 2.884E-05 | 1627 |
| 108.5 | 64916 | 2.028E-05 | 4.869E-05 | 1628 |
| 109.5 | 42217 | 1.319E-05 | 3.166E-05 | 1630 |
| 110.4 | 40372 | 1.262E-05 | 3.029E-05 | 1632 |
| 111.4 | 20826 | 6.508E-06 | 1.562E-05 | 1633 |
| 112.4 | 11401 | 3.563E-06 | 8.551E-06 | 1635 |
| 113.4 | 4685 | 1.464E-06 | 3.514E-06 | 1637 |
| 114.4 | 1877 | 5.866E-07 | 1.408E-06 | 1638 |
| 115.3 | 270 | 8.442E-08 | 2.026E-07 | 1640 |
| 116.3 | 43 | 1.656E-08 | 2.533E-08 | 1641 |
| 117.3 | 5 | 1.694E-09 | 4.075E-09 | 1643 |
| 118.2 | 0 | 0. | 0. | 1644 |

CROSSWIND INTEGRATED= 3.595E-03 SEC/SQ.M 8.627E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 0 | 0. | 0. | 2200 |
| 78.0 | 2 | 9.327E-10 | 4.384E-09 | 2200 |
| X 80.0 | 0 | 0. | 0. | 2200 |
| 82.0 | 5 | 1.732E-09 | 8.141E-09 | 2200 |
| 84.0 | 0 | 0. | 0. | 2200 |
| 86.0 | 2 | 7.994E-10 | 3.757E-09 | 2200 |
| 88.0 | 86 | 2.758E-08 | 1.296E-07 | 2200 |
| 90.0 | 913 | 2.910E-07 | 1.368E-06 | 2200 |
| 92.0 | 2977 | 9.463E-07 | 4.457E-06 | 2200 |
| S 94.0 | 1799 | 5.731E-07 | 2.693E-06 | 2200 |
| 8 96.0 | 1114 | 3.549E-07 | 1.668E-06 | 2200 |
| S 98.0 | 6424 | 2.046E-06 | 9.616E-06 | 2200 |
| 100.0 | 5150 | 1.640E-06 | 7.710E-06 | 2200 |
| S 102.0 | 3980 | 1.268E-06 | 5.958E-06 | 2200 |
| 104.0 | 4374 | 1.393E-06 | 6.548E-06 | 2200 |
| S 106.0 | 3645 | 1.161E-06 | 5.457E-06 | 2200 |
| 108.0 | 13968 | 4.455E-06 | 2.094E-05 | 2200 |
| E 110.0 | 21335 | 6.795E-06 | 3.194E-05 | 2200 |
| 112.0 | 7010 | 2.233E-06 | 1.049E-05 | 2200 |
| W 114.0 | 2403 | 7.656E-07 | 3.598E-06 | 2200 |
| 116.0 | 105 | 3.371E-08 | 1.584E-07 | 2200 |
| 118.0 | 0 | 2.665E-10 | 1.252E-09 | 2200 |
| 0 120.0 | 0 | 0. | 0. | 2200 |
| 122.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.842E-03 SEC/SQ.M 8.658E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 6 | 2.055E-09 | 4.932E-09 | 2200 |
| E 84.0 | 55 | 1.742E-08 | 4.180E-08 | 2200 |
| 86.0 | 531 | 1.660E-07 | 3.953E-07 | 2200 |
| 88.0 | 3224 | 1.006E-06 | 2.414E-06 | 2200 |
| 90.0 | 8495 | 2.655E-06 | 6.372E-06 | 2200 |
| 92.0 | 8873 | 2.773E-06 | 6.655E-06 | 2200 |
| T 94.0 | 6796 | 2.124E-06 | 5.097E-06 | 2200 |
| S 96.0 | 3983 | 1.245E-06 | 2.988E-06 | 2200 |
| 1 98.0 | 4552 | 1.423E-06 | 3.415E-06 | 2200 |
| 100.0 | 3603 | 1.126E-06 | 2.703E-06 | 2200 |
| T 102.0 | 3224 | 1.008E-06 | 2.418E-06 | 2200 |
| 104.0 | 4552 | 1.423E-06 | 3.415E-06 | 2200 |
| T 106.0 | 7362 | 2.301E-06 | 5.522E-06 | 2200 |
| 108.0 | 25175 | 7.867E-06 | 1.888E-05 | 2200 |
| 4 110.0 | 15104 | 4.720E-06 | 1.133E-05 | 2200 |
| 3 112.0 | 4268 | 1.334E-06 | 3.201E-06 | 2200 |
| 0 114.0 | 287 | 8.993E-08 | 2.158E-07 | 2200 |
| 116.0 | 11 | 3.523E-09 | 8.455E-09 | 2200 |
| 118.0 | 6 | 2.055E-09 | 4.932E-09 | 2200 |
| D 120.0 | 2 | 9.199E-10 | 2.208E-09 | 2200 |

CROSSWIND INTEGRATED= 2.403E-03 SEC/SQ.M 5.766E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.8 | 0 | 0. | 0. | 3200 |
| 85.8 | 1 | 4.329E-10 | 2.035E-09 | 3191 |
| 86.8 | 29 | 9.523E-09 | 4.476E-08 | 3192 |
| 87.8 | 85 | 2.857E-08 | 1.343E-07 | 3194 |
| 88.8 | 323 | 1.030E-07 | 4.842E-07 | 3196 |
| 89.8 | 502 | 1.602E-07 | 7.526E-07 | 3198 |
| 90.8 | 1317 | 4.195E-07 | 1.971E-06 | 3199 |
| W 91.8 | 2420 | 7.709E-07 | 3.623E-06 | 3201 |
| 92.8 | 3579 | 1.140E-06 | 5.357E-06 | 3203 |
| 93.8 | 4151 | 1.322E-06 | 6.213E-06 | 3205 |
| 94.8 | 4988 | 1.589E-06 | 7.467E-06 | 3206 |
| 95.8 | 7100 | 2.261E-06 | 1.063E-05 | 3208 |
| 96.8 | 7463 | 2.379E-06 | 1.118E-05 | 3210 |
| 97.8 | 8211 | 2.615E-06 | 1.229E-05 | 3212 |
| 98.8 | 10226 | 3.257E-06 | 1.531E-05 | 3213 |
| 99.8 | 11187 | 3.563E-06 | 1.675E-05 | 3215 |
| 100.8 | 11382 | 3.625E-06 | 1.704E-05 | 3217 |
| S 101.8 | 7937 | 2.528E-06 | 1.188E-05 | 3218 |
| 102.8 | 7592 | 2.418E-06 | 1.136E-05 | 3220 |
| 103.8 | 7723 | 2.460E-06 | 1.156E-05 | 3222 |
| 104.8 | 7746 | 2.467E-06 | 1.159E-05 | 3224 |
| 105.8 | 7428 | 2.366E-06 | 1.112E-05 | 3225 |
| 106.8 | 5933 | 1.889E-06 | 8.881E-06 | 3227 |
| 107.8 | 7097 | 2.260E-06 | 1.062E-05 | 3229 |
| 108.8 | 13143 | 4.186E-06 | 1.967E-05 | 3230 |
| 109.7 | 19720 | 6.281E-06 | 2.952E-05 | 3232 |
| 110.7 | 30723 | 9.785E-06 | 4.599E-05 | 3233 |
| 111.7 | 29307 | 9.334E-06 | 4.387E-05 | 3235 |
| 112.7 | 13154 | 4.189E-06 | 1.969E-05 | 3237 |
| 113.7 | 7399 | 2.357E-06 | 1.108E-05 | 3238 |
| 114.6 | 907 | 2.892E-07 | 1.359E-06 | 3240 |
| 115.6 | 172 | 5.497E-08 | 2.584E-07 | 3241 |
| 116.6 | 6 | 2.164E-09 | 1.017E-08 | 3243 |
| 117.6 | 0 | 0. | 0. | 3245 |

CROSSWIND INTEGRATED= 4.246E-03 SEC/SQ.M 1.996E-02 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.8 | 0 | 0. | 0. | 3200 |
| 83.8 | 0 | 1.001E-10 | 2.404E-10 | 3187 |
| 84.8 | 50 | 1.576E-08 | 3.782E-08 | 3189 |
| 85.8 | 174 | 5.448E-08 | 1.308E-07 | 3191 |
| 86.8 | 397 | 1.242E-07 | 2.982E-07 | 3192 |
| 87.8 | 1369 | 4.280E-07 | 1.027E-06 | 3194 |
| 88.8 | 2481 | 7.755E-07 | 1.861E-06 | 3196 |
| 89.8 | 2663 | 8.326E-07 | 2.013E-06 | 3198 |
| 90.8 | 4567 | 1.427E-06 | 3.426E-06 | 3199 |
| W 91.8 | 5599 | 1.750E-06 | 4.200E-06 | 3201 |
| 92.8 | 4904 | 1.533E-06 | 3.678E-06 | 3203 |
| 93.8 | 5624 | 1.820E-06 | 4.368E-06 | 3205 |
| 94.8 | 3627 | 1.196E-06 | 2.871E-06 | 3206 |
| 95.8 | 4231 | 1.322E-06 | 3.174E-06 | 3208 |
| 96.8 | 3356 | 1.049E-06 | 2.517E-06 | 3210 |
| 97.8 | 3356 | 1.049E-06 | 2.517E-06 | 3212 |
| 98.8 | 4433 | 1.385E-06 | 3.325E-06 | 3213 |
| 99.8 | 3289 | 1.028E-06 | 2.467E-06 | 3215 |
| 100.8 | 3154 | 9.858E-07 | 2.366E-06 | 3217 |
| T 101.8 | 2683 | 8.386E-07 | 2.013E-06 | 3218 |
| 102.8 | 3491 | 1.091E-06 | 2.618E-06 | 3220 |
| 103.8 | 4366 | 1.364E-06 | 3.275E-06 | 3222 |
| 104.8 | 4433 | 1.385E-06 | 3.325E-06 | 3224 |
| 105.8 | 4500 | 1.406E-06 | 3.375E-06 | 3225 |
| 106.8 | 6272 | 1.960E-06 | 4.705E-06 | 3227 |
| 107.8 | 10025 | 3.133E-06 | 7.519E-06 | 3229 |
| 108.8 | 11967 | 3.740E-06 | 8.976E-06 | 3230 |
| 109.7 | 17146 | 5.358E-06 | 1.286E-05 | 3232 |
| 110.7 | 15527 | 4.852E-06 | 1.165E-05 | 3233 |
| 111.7 | 8291 | 2.591E-06 | 6.219E-06 | 3235 |
| 112.7 | 2885 | 9.017E-07 | 2.164E-06 | 3237 |
| 113.7 | 866 | 2.706E-07 | 6.499E-07 | 3238 |
| 114.6 | 76 | 2.404E-08 | 5.768E-08 | 3240 |
| 115.6 | 16 | 5.074E-09 | 1.218E-08 | 3241 |
| 116.6 | 0 | 0. | 0. | 3243 |

CROSSWIND INTEGRATED= 2.543E-03 SEC/SQ.M 6.103E-03 1/M

1202769



U68

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF -26M
5000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 16 | 5.330E-09 | 2.505E-08 | 4630 |
| | 84.0 | 58 | 1.879E-08 | 8.830E-08 | 4620 |
| | 86.0 | 7 | 2.537E-09 | 1.190E-08 | 4610 |
| | 88.0 | 12 | 4.150E-09 | 1.941E-08 | 4610 |
| | 90.0 | 79 | 2.516E-08 | 1.184E-07 | 4610 |
| | 92.0 | 236 | 7.541E-08 | 3.544E-07 | 4620 |
| | 94.0 | 791 | 2.521E-07 | 1.185E-06 | 4620 |
| | 96.0 | 1485 | 4.731E-07 | 2.224E-06 | 4620 |
| | 98.0 | 1362 | 4.338E-07 | 2.039E-06 | 4660 |
| | 100.0 | 2572 | 8.194E-07 | 3.851E-06 | 4690 |
| | 102.0 | 1924 | 6.129E-07 | 2.881E-06 | 4710 |
| | 104.0 | 1831 | 5.832E-07 | 2.741E-06 | 4770 |
| | 106.0 | 3135 | 9.986E-07 | 4.694E-06 | 4810 |
| | 108.0 | 1678 | 5.344E-07 | 2.512E-06 | 4870 |
| | 110.0 | 2680 | 8.537E-07 | 4.012E-06 | 4920 |
| | 112.0 | 6379 | 2.032E-06 | 9.549E-06 | 4990 |
| | 114.0 | 1946 | 6.200E-07 | 2.914E-06 | 5080 |
| | 116.0 | 107 | 3.424E-08 | 1.607E-07 | 5020 |
| | 118.0 | 0 | 0. | 0. | 5100 |

CROSSWIND INTEGRATED= 1.416E-03 SEC/SQ.M 6.654E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 82.0 | 10 | 3.131E-09 | 7.515E-09 | 4630 |
| | 84.0 | 4 | 1.370E-09 | 3.288E-09 | 4620 |
| | 86.0 | 18 | 5.871E-09 | 1.409E-08 | 4610 |
| | 88.0 | 169 | 5.304E-08 | 1.273E-07 | 4610 |
| | 90.0 | 1437 | 4.494E-07 | 1.078E-06 | 4610 |
| | 92.0 | 4271 | 1.335E-06 | 3.204E-06 | 4620 |
| | 94.0 | 6047 | 1.890E-06 | 4.536E-06 | 4620 |
| | 96.0 | 4600 | 1.438E-06 | 3.451E-06 | 4620 |
| | 98.0 | 4469 | 1.397E-06 | 3.352E-06 | 4660 |
| | 100.0 | 2825 | 8.829E-07 | 2.119E-06 | 4690 |
| | 102.0 | 3877 | 1.212E-06 | 2.908E-06 | 4710 |
| | 104.0 | 5850 | 1.828E-06 | 4.386E-06 | 4770 |
| | 106.0 | 5126 | 1.602E-06 | 3.845E-06 | 4810 |
| | 108.0 | 5587 | 1.746E-06 | 4.190E-06 | 4870 |
| | 110.0 | 12964 | 4.051E-06 | 9.724E-06 | 4920 |
| | 112.0 | 11699 | 3.656E-06 | 8.775E-06 | 4990 |
| | 114.0 | 2956 | 9.240E-07 | 2.218E-06 | 5080 |
| | 116.0 | 129 | 4.032E-08 | 9.676E-08 | 5020 |
| | 118.0 | 1 | 5.676E-10 | 1.362E-09 | 5100 |
| B | 120.0 | 3 | 1.155E-09 | 2.771E-09 | 5130 |

CROSSWIND INTEGRATED= 3.779E-03 SEC/SQ.M 9.071E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 76.0 | 71 | 2.274E-08 | 1.071E-07 | 6280 |
| | 78.0 | 25 | 8.261E-09 | 3.883E-08 | 6300 |
| | 80.0 | 56 | 1.799E-08 | 8.454E-08 | 6400 |
| | 82.0 | 88 | 2.825E-08 | 1.328E-07 | 6490 |
| | 84.0 | 46 | 1.492E-08 | 7.014E-08 | 6500 |
| | 86.0 | 179 | 5.716E-08 | 2.686E-07 | 6500 |
| | 88.0 | 190 | 6.076E-08 | 2.856E-07 | 6480 |
| | 90.0 | 283 | 9.034E-08 | 4.246E-07 | 6500 |
| | 92.0 | 469 | 1.496E-07 | 7.032E-07 | 6490 |
| | 94.0 | 794 | 2.529E-07 | 1.189E-06 | 6500 |
| | 96.0 | 894 | 2.847E-07 | 1.336E-06 | 6510 |
| | 98.0 | 1714 | 5.461E-07 | 2.567E-06 | 6520 |
| | 100.0 | 2885 | 9.189E-07 | 4.319E-06 | 6560 |
| | 102.0 | 2150 | 6.848E-07 | 3.219E-06 | 6610 |
| | 104.0 | 2884 | 9.185E-07 | 4.317E-06 | 6650 |
| | 106.0 | 1135 | 3.615E-07 | 1.699E-06 | 6720 |
| | 108.0 | 1302 | 4.149E-07 | 1.950E-06 | 6800 |
| B | 110.0 | 567 | 1.803E-07 | 8.498E-07 | 7000 |
| | 112.0 | 1077 | 3.431E-07 | 1.613E-06 | 7300 |
| | 114.0 | 1720 | 5.479E-07 | 2.575E-06 | 7210 |
| | 116.0 | 530 | 1.689E-07 | 7.940E-07 | 7220 |
| | 118.0 | 21 | 6.795E-09 | 3.194E-08 | 7190 |
| | 120.0 | 0 | 0. | 0. | 7150 |

CROSSWIND INTEGRATED= 1.427E-03 SEC/SQ.M 6.706E-03 1/M

TEST U68 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 76.0 | 69 | 2.172E-08 | 5.214E-08 | 6280 |
| | 78.0 | 69 | 2.172E-08 | 5.214E-08 | 6300 |
| | 80.0 | 107 | 3.347E-08 | 8.032E-08 | 6400 |
| | 82.0 | 97 | 3.053E-08 | 7.328E-08 | 6490 |
| B | 84.0 | 150 | 4.717E-08 | 1.132E-07 | 6500 |
| | 86.0 | 221 | 6.959E-08 | 1.670E-07 | 6500 |
| | 88.0 | 273 | 8.553E-08 | 2.053E-07 | 6480 |
| | 90.0 | 727 | 2.273E-07 | 5.456E-07 | 6500 |
| B | 92.0 | 1378 | 4.308E-07 | 1.034E-06 | 6490 |
| | 94.0 | 1023 | 3.198E-07 | 7.675E-07 | 6500 |
| | 96.0 | 1003 | 3.136E-07 | 7.527E-07 | 6510 |
| | 98.0 | 1082 | 3.383E-07 | 8.119E-07 | 6520 |
| | 100.0 | 1477 | 4.616E-07 | 1.108E-06 | 6560 |
| | 102.0 | 1437 | 4.493E-07 | 1.078E-06 | 6610 |
| | 104.0 | 1200 | 3.753E-07 | 9.007E-07 | 6650 |
| B | 106.0 | 1102 | 3.445E-07 | 8.267E-07 | 6720 |
| B | 108.0 | 1904 | 5.952E-07 | 1.428E-06 | 6800 |
| B | 110.0 | 2693 | 8.418E-07 | 2.020E-06 | 7000 |
| B | 112.0 | 1299 | 4.061E-07 | 9.747E-07 | 7300 |
| | 114.0 | 589 | 1.842E-07 | 4.420E-07 | 7210 |
| | 116.0 | 65 | 2.032E-08 | 6.388E-08 | 7220 |
| | 118.0 | 0 | 9.706E-12 | 2.349E-11 | 7190 |

CROSSWIND INTEGRATED= 1.320E-03 SEC/SQ.M 3.169E-03 1/M



1202770

U6

TEST U68 JULY 16, 1968 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 91.0 | 0 | 0. | 0. | 12800 |
| F | 92.0 | 22 | 7.062E-09 | 3.319E-08 | 12800 |
| | 93.0 | 4 | 1.466E-09 | 6.888E-09 | 12800 |
| | 94.0 | 3 | 1.199E-09 | 5.636E-09 | 12800 |
| | 95.0 | 26 | 8.527E-09 | 4.008E-08 | 12800 |
| | 96.0 | 43 | 1.399E-08 | 6.575E-08 | 12800 |
| | 97.0 | 20 | 6.662E-09 | 3.131E-08 | 12800 |
| | 98.0 | 21 | 6.795E-09 | 3.194E-08 | 12800 |
| | 99.0 | 2 | 6.662E-10 | 3.131E-09 | 12800 |
| | 100.0 | 0 | 2.665E-10 | 1.252E-09 | 12800 |
| | 101.0 | 0 | 0. | 0. | 12800 |
| | 102.0 | 2 | 6.662E-10 | 3.131E-09 | 12800 |
| | 103.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 1.057E-05 SEC/SQ.M 4.966E-05 1/M

TEST U64 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 2.4 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| R | 91.0 | 4 | 1.272E-09 | 3.053E-09 | 12800 |
| F | 92.0 | 5 | 1.761E-09 | 4.227E-09 | 12800 |
| 1 | 93.0 | 1 | 3.914E-10 | 9.394E-10 | 12800 |
| 2 | 94.0 | 24 | 7.731E-09 | 1.855E-08 | 12800 |
| 2 | 95.0 | 13 | 4.306E-09 | 1.033E-08 | 12800 |
| 3 | 96.0 | 33 | 1.037E-08 | 2.489E-08 | 12800 |
| 4 | 97.0 | 19 | 5.969E-09 | 1.433E-08 | 12800 |
| 3 | 98.0 | 18 | 5.676E-09 | 1.362E-08 | 12800 |
| 1 | 99.0 | 5 | 1.664E-09 | 3.993E-09 | 12800 |
| 1 | 100.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 8.745E-06 SEC/SQ M 2.099E-05 1/M



U68 1202771

SAMPLING FROM 400M TO 12800M. NO TOWER SAMPLING. ONLY ZINC SULFIDE TRACER RELEASED THIS DATE.
TRACER APPEARS CONTAINED WITHIN SAMPLERS TO A DISTANCE OF 5000M, DISTRIBUTION SKEWED STRONGLY TO SOUTH.
TRUNCATED DISTRIBUTION ON 7000M ARC AND SIGNIFICANT DUST ON 12800M ARC MAKE THESE ARC DATA QUESTIONABLE.

TEST U69 JULY 19, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 70.0 | 0 | 0. | 0. | 400 |
| 74.0 | 24 | 7.736E-09 | 3.791E-08 | 400 |
| 78.0 | 2 | 8.596E-10 | 4.212E-09 | 400 |
| 82.0 | 3765 | 1.177E-06 | 5.766E-06 | 400 |
| 86.0 | 29875 | 9.335E-06 | 4.575E-05 | 400 |
| 90.0 | 36482 | 1.140E-05 | 5.586E-05 | 400 |
| 94.0 | 53432 | 1.670E-05 | 8.182E-05 | 400 |
| 98.0 | 39058 | 1.221E-05 | 5.981E-05 | 400 |
| 102.0 | 45470 | 1.421E-05 | 6.963E-05 | 400 |
| 106.0 | 45348 | 1.417E-05 | 6.944E-05 | 400 |
| W 110.0 | 13136 | 4.105E-06 | 2.012E-05 | 400 |
| W 114.0 | 3185 | 9.954E-07 | 4.877E-06 | 400 |
| W 118.0 | 0 | 0. | 0. | 400 |
| W 122.0 | 1 | 4.298E-10 | 2.106E-09 | 400 |
| 126.0 | 0 | 0. | 0. | 400 |

CROSS-IND INTEGRATED= 2.354E-03 SEC/SQ.M 1.154E-02 1/M

TEST U69 JULY 19, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 79.0 | 0 | 0. | 0. | 800 |
| 82.0 | 222 | 6.962E-08 | 3.412E-07 | 800 |
| 85.0 | 4015 | 1.255E-06 | 6.149E-06 | 800 |
| 88.0 | 23461 | 7.332E-06 | 3.593E-05 | 800 |
| 91.0 | 54156 | 1.692E-05 | 8.293E-05 | 800 |
| 94.0 | 42565 | 1.333E-05 | 6.533E-05 | 800 |
| 97.0 | 34326 | 1.073E-05 | 5.256E-05 | 800 |
| 97.1 | 46325 | 1.449E-05 | 7.094E-05 | 806 |
| 99.1 | 43924 | 1.373E-05 | 6.726E-05 | 809 |
| 101.1 | 47676 | 1.490E-05 | 7.300E-05 | 813 |
| 103.0 | 56688 | 1.772E-05 | 8.680E-05 | 816 |
| 105.0 | 60076 | 1.877E-05 | 9.199E-05 | 820 |
| 106.9 | 45762 | 1.430E-05 | 7.007E-05 | 823 |
| 108.8 | 55501 | 1.734E-05 | 8.499E-05 | 826 |
| 110.7 | 25526 | 7.977E-06 | 3.909E-05 | 829 |
| 112.6 | 6668 | 2.084E-06 | 1.021E-05 | 833 |
| 114.5 | 1309 | 4.091E-07 | 2.005E-06 | 836 |
| 116.4 | 727 | 2.273E-07 | 1.114E-06 | 839 |
| 118.3 | 0 | 0. | 0. | 842 |

CROSS-IND INTEGRATED= 5.052E-03 SEC/SQ.M 2.475E-02 1/M



1202772

U69

TEST U69 JULY 18, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | L/Q SEC/CU.M | LU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 80.0 | 0 | 0. | 0. | 1200 |
| 82.0 | 2 | 7.551E-10 | 3.700E-09 | 1200 |
| 84.0 | 161 | 5.034E-08 | 2.467E-07 | 1200 |
| 86.0 | 1498 | 4.682E-07 | 2.294E-06 | 1200 |
| 88.0 | 8387 | 2.621E-06 | 1.284E-05 | 1200 |
| 90.0 | 20125 | 6.289E-06 | 3.082E-05 | 1200 |
| 92.0 | 28739 | 8.981E-06 | 4.401E-05 | 1200 |
| 94.0 | 33704 | 1.053E-05 | 5.161E-05 | 1200 |
| 96.0 | 27986 | 8.746E-06 | 4.285E-05 | 1200 |
| 98.0 | 22011 | 6.878E-06 | 3.370E-05 | 1200 |
| 100.0 | 11247 | 3.515E-06 | 1.722E-05 | 1200 |
| 102.0 | 20125 | 6.289E-06 | 3.082E-05 | 1200 |
| 104.0 | 24824 | 7.758E-06 | 3.801E-05 | 1200 |
| 106.0 | 18598 | 5.812E-06 | 2.846E-05 | 1200 |
| 108.0 | 17507 | 5.471E-06 | 2.681E-05 | 1200 |
| 110.0 | 25372 | 7.929E-06 | 3.885E-05 | 1200 |
| 112.0 | 7162 | 2.238E-06 | 1.097E-05 | 1200 |
| 114.0 | 345 | 1.203E-07 | 5.895E-07 | 1200 |
| 116.0 | 2 | 7.551E-10 | 3.700E-09 | 1200 |
| 118.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 3.506E-03 SEC/SQ.M 1.718E-02 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | L/Q SEC/CU.M | LU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.0 | 0 | 0. | 0. | 1600 |
| 86.0 | 195 | 6.116E-08 | 2.997E-07 | 1600 |
| 88.0 | 1543 | 4.865E-07 | 2.384E-06 | 1600 |
| 90.0 | 3092 | 9.465E-07 | 4.736E-06 | 1600 |
| 92.0 | 19531 | 5.791E-06 | 2.838E-05 | 1600 |
| 93.6 | 19071 | 5.960E-06 | 2.920E-05 | 1603 |
| 94.0 | 5597 | 1.843E-06 | 9.030E-06 | 1600 |
| 94.4 | 21540 | 6.744E-06 | 3.304E-05 | 1604 |
| 95.6 | 19338 | 6.043E-06 | 2.951E-05 | 1606 |
| 96.4 | 21931 | 6.854E-06 | 3.356E-05 | 1608 |
| 97.4 | 20249 | 6.328E-06 | 3.101E-05 | 1610 |
| 98.4 | 10312 | 3.374E-06 | 1.656E-05 | 1611 |
| 99.4 | 16149 | 5.047E-06 | 2.473E-05 | 1613 |
| 100.4 | 17269 | 5.397E-06 | 2.644E-05 | 1615 |
| 101.4 | 16948 | 5.296E-06 | 2.595E-05 | 1617 |
| 102.4 | 15485 | 4.839E-06 | 2.371E-05 | 1618 |
| 103.4 | 15973 | 4.992E-06 | 2.446E-05 | 1620 |
| 104.5 | 15608 | 4.878E-06 | 2.390E-05 | 1622 |
| 105.5 | 11196 | 3.499E-06 | 1.714E-05 | 1623 |
| 106.5 | 13085 | 4.090E-06 | 2.004E-05 | 1625 |
| 107.5 | 13932 | 4.354E-06 | 2.133E-05 | 1627 |
| 108.5 | 20076 | 6.274E-06 | 3.074E-05 | 1628 |
| 109.5 | 20820 | 6.506E-06 | 3.188E-05 | 1630 |
| 110.4 | 16906 | 5.283E-06 | 2.589E-05 | 1632 |
| 111.4 | 9695 | 3.030E-06 | 1.485E-05 | 1633 |
| 112.4 | 4245 | 1.327E-06 | 6.501E-06 | 1635 |
| 113.4 | 905 | 2.830E-07 | 1.387E-06 | 1637 |
| 114.4 | 465 | 1.458E-07 | 7.143E-07 | 1638 |
| 115.3 | 0 | 0. | 0. | 1640 |

CROSSWIND INTEGRATED= 3.171E-03 SEC/SQ.M 1.554E-02 1/M



U69 1202773

TEST U69 JULY 18, 1968 0118 TO 0146 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 0. | 0. | 2200 |
| 88.0 | 33 | 1.059E-08 | 5.189E-08 | 2200 |
| P 90.0 | 37 | 1.177E-08 | 5.766E-08 | 2200 |
| 92.0 | 1722 | 5.384E-07 | 2.638E-06 | 2200 |
| 6 94.0 | 648 | 2.025E-07 | 9.923E-07 | 2200 |
| 7 96.0 | 490 | 1.534E-07 | 7.515E-07 | 2200 |
| P 98.0 | 12348 | 3.859E-06 | 1.891E-05 | 2200 |
| 100.0 | 3876 | 1.211E-06 | 5.936E-06 | 2200 |
| 102.0 | 3848 | 1.203E-06 | 5.893E-06 | 2200 |
| 104.0 | 5334 | 1.667E-06 | 8.168E-06 | 2200 |
| E 106.0 | 5081 | 1.588E-06 | 7.780E-06 | 2200 |
| 4 108.0 | 5524 | 1.725E-06 | 8.459E-06 | 2200 |
| F 110.0 | 12131 | 3.791E-06 | 1.858E-05 | 2200 |
| 5 112.0 | 415 | 1.297E-07 | 6.355E-07 | 2200 |
| 114.0 | 71 | 2.249E-08 | 1.102E-07 | 2200 |
| 116.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.237E-03 SEC/SQ.M 6.064E-03 1/M

TEST U69 JULY 18, 1968 0118 TO 0145 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.8 | 0 | 0. | 0. | 3200 |
| 89.8 | 20 | 6.371E-09 | 3.122E-08 | 3198 |
| 90.8 | 85 | 2.676E-08 | 1.311E-07 | 3199 |
| 91.8 | 451 | 1.410E-07 | 6.910E-07 | 3201 |
| 92.8 | 1314 | 4.107E-07 | 2.013E-06 | 3203 |
| 93.8 | 2317 | 7.242E-07 | 3.549E-06 | 3205 |
| 94.8 | 4497 | 1.406E-06 | 6.887E-06 | 3206 |
| 95.8 | 7833 | 2.448E-06 | 1.199E-05 | 3208 |
| 96.8 | 8972 | 2.804E-06 | 1.374E-05 | 3210 |
| 97.8 | 8109 | 2.534E-06 | 1.242E-05 | 3212 |
| 98.8 | 9127 | 2.852E-06 | 1.396E-05 | 3213 |
| 99.8 | 8489 | 2.653E-06 | 1.300E-05 | 3215 |
| 100.8 | 8758 | 2.737E-06 | 1.341E-05 | 3217 |
| 101.8 | 7602 | 2.376E-06 | 1.164E-05 | 3218 |
| 102.8 | 7358 | 2.300E-06 | 1.127E-05 | 3220 |
| 103.8 | 6539 | 2.044E-06 | 1.001E-05 | 3222 |
| 104.8 | 6306 | 1.971E-06 | 9.657E-06 | 3224 |
| 105.8 | 6037 | 1.887E-06 | 9.245E-06 | 3225 |
| 106.8 | 6207 | 1.940E-06 | 9.505E-06 | 3227 |
| 107.8 | 4866 | 1.521E-06 | 7.451E-06 | 3229 |
| 108.8 | 9518 | 2.975E-06 | 1.458E-05 | 3230 |
| 109.7 | 12014 | 3.754E-06 | 1.840E-05 | 3232 |
| 110.7 | 8636 | 2.699E-06 | 1.322E-05 | 3233 |
| 111.7 | 4006 | 1.253E-06 | 6.136E-06 | 3235 |
| 112.7 | 816 | 2.557E-07 | 1.253E-06 | 3237 |
| 113.7 | 44 | 1.402E-08 | 6.866E-08 | 3238 |
| 114.6 | 13 | 4.248E-09 | 2.081E-08 | 3240 |
| 115.6 | 0 | 0. | 0. | 3241 |

CROSSWIND INTEGRATED= 2.439E-03 SEC/SQ.M 1.195E-02 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 4620 |
| 94.0 | 20 | 6.276E-09 | 3.075E-08 | 4520 |
| 96.0 | 221 | 6.916E-08 | 3.389E-07 | 4620 |
| 98.0 | 646 | 2.020E-07 | 9.898E-07 | 4660 |
| 100.0 | 3741 | 1.169E-06 | 5.729E-06 | 4690 |
| 102.0 | 2855 | 8.923E-07 | 4.372E-06 | 4710 |
| 104.0 | 1186 | 3.706E-07 | 1.816E-06 | 4770 |
| 106.0 | 2518 | 7.871E-07 | 3.857E-06 | 4810 |
| 108.0 | 1516 | 4.738E-07 | 2.322E-06 | 4870 |
| F 110.0 | 977 | 3.054E-07 | 1.497E-06 | 4920 |
| 112.0 | 433 | 1.353E-07 | 6.630E-07 | 4990 |
| 114.0 | 5 | 1.569E-09 | 7.688E-09 | 5060 |
| 116.0 | 0 | 0. | 0. | 5020 |

CROSSWIND INTEGRATED= 7.338E-04 SEC/SQ.M 3.596E-03 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 0 | 0. | 0. | 6500 |
| 3 96.0 | 213 | 6.668E-08 | 3.267E-07 | 6510 |
| 3 98.0 | 758 | 2.372E-07 | 1.162E-06 | 6520 |
| 4 100.0 | 2070 | 6.472E-07 | 3.171E-06 | 6560 |
| 4 102.0 | 2937 | 9.179E-07 | 4.496E-06 | 6610 |
| 4 104.0 | 3318 | 1.037E-06 | 5.081E-06 | 6650 |
| 4 106.0 | 3966 | 1.239E-06 | 6.073E-06 | 6720 |
| 5 108.0 | 3230 | 1.010E-06 | 4.947E-06 | 6800 |
| 5 110.0 | 431 | 1.349E-07 | 6.611E-07 | 7000 |
| 6 112.0 | 98 | 3.065E-08 | 1.512E-07 | 7300 |
| 3 114.0 | 82 | 2.589E-08 | 1.268E-07 | 7210 |
| 4 116.0 | 88 | 2.772E-08 | 1.358E-07 | 7220 |
| 3 118.0 | 4 | 1.438E-09 | 7.047E-09 | 7190 |
| 4 120.0 | 75 | 2.366E-08 | 1.160E-07 | 7150 |
| E 122.0 | 73 | 2.301E-08 | 1.128E-07 | 7120 |
| E 124.0 | 70 | 2.196E-08 | 1.076E-07 | 7100 |
| 4 126.0 | 67 | 2.118E-08 | 1.038E-07 | 7100 |
| 7 128.0 | 54 | 1.713E-08 | 8.392E-08 | 7100 |
| E 130.0 | 61 | 1.935E-08 | 9.481E-08 | 7130 |
| F 132.0 | 57 | 1.804E-08 | 8.841E-08 | 7150 |
| 134.0 | 56 | 1.752E-08 | 8.584E-08 | 7200 |
| 0 136.0 | 31 | 9.936E-09 | 4.869E-08 | 7250 |
| 3 138.0 | 49 | 1.543E-08 | 7.559E-08 | 7300 |
| 4 140.0 | 20 | 6.276E-09 | 3.075E-08 | 7350 |
| 4 142.0 | 53 | 1.657E-08 | 8.254E-08 | 7250 |
| F 144.0 | 49 | 1.543E-08 | 7.559E-08 | 7110 |
| P 146.0 | 49 | 1.543E-08 | 7.559E-08 | 7100 |

CROSSWIND INTEGRATED= 1.315E-03 SEC/SQ.M 6.444E-03 1/M

TEST U69 JULY 18, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/D SEC/CU.M | EU/D 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 94.0 | 0 | 0. | 0. | 12800 |
| 6 | 95.0 | 7 | 2.223E-09 | 1.089E-08 | 12800 |
| 7 | 96.0 | 0 | 2.615E-10 | 1.281E-09 | 12800 |
| 4 | 97.0 | 9 | 2.876E-09 | 1.409E-08 | 12800 |
| 7 | 98.0 | 2 | 6.537E-10 | 3.203E-09 | 12800 |
| | 99.0 | 0 | 0. | 0. | 12800 |
| | 100.0 | 0 | 0. | 0. | 12800 |
| | 101.0 | 10 | 3.399E-09 | 1.666E-08 | 12800 |
| 6 | 102.0 | 5 | 1.569E-09 | 7.686E-09 | 12800 |
| 5 | 103.0 | 5 | 1.700E-09 | 8.326E-09 | 12800 |
| 4 | 104.0 | 10 | 3.269E-09 | 1.602E-08 | 12800 |
| 4 | 105.0 | 7 | 2.223E-09 | 1.089E-08 | 12800 |
| 6 | 106.0 | 17 | 5.491E-09 | 2.691E-08 | 12800 |
| 5 | 107.0 | 4 | 1.307E-09 | 6.406E-09 | 12800 |
| 4 | 108.0 | 6 | 1.961E-09 | 9.609E-09 | 12800 |
| 5 | 109.0 | 0 | 0. | 0. | 12800 |
| 5 | 110.0 | 0 | 0. | 0. | 12800 |
| 7 | 111.0 | 16 | 5.099E-09 | 2.498E-08 | 12800 |
| 5 | 112.0 | 7 | 2.223E-09 | 1.089E-08 | 12800 |
| 4 | 113.0 | 17 | 5.361E-09 | 2.627E-08 | 12800 |
| 9 | 114.0 | 13 | 4.314E-09 | 2.114E-08 | 12800 |
| 5 | 115.0 | 3 | 1.046E-09 | 5.125E-09 | 12800 |
| 6 | 116.0 | 10 | 3.399E-09 | 1.666E-08 | 12800 |
| | 117.0 | 30 | 9.413E-09 | 4.613E-08 | 12800 |
| | 118.0 | 16 | 5.099E-09 | 2.498E-08 | 12800 |
| | 119.0 | 0 | 0. | 0. | 12800 |
| | 120.0 | 23 | 7.321E-09 | 3.588E-08 | 12800 |
| | 121.0 | 18 | 5.753E-09 | 2.819E-08 | 12800 |
| 4 | 122.0 | 146 | 4.589E-08 | 2.249E-07 | 12800 |
| | 123.0 | 69 | 2.170E-08 | 1.063E-07 | 12800 |
| 5 | 124.0 | 85 | 2.772E-08 | 1.359E-07 | 12800 |
| 5 | 125.0 | 100 | 3.151E-08 | 1.544E-07 | 12800 |
| 4 | 126.0 | 69 | 2.157E-08 | 1.057E-07 | 12800 |
| 5 | 127.0 | 70 | 2.196E-08 | 1.076E-07 | 12800 |
| 5 | 128.0 | 76 | 2.379E-08 | 1.166E-07 | 12800 |
| 5 | 129.0 | 40 | 1.255E-08 | 6.150E-08 | 12800 |
| 8 | 130.0 | 36 | 1.151E-08 | 5.638E-08 | 12800 |
| 6 | 131.0 | 32 | 1.020E-08 | 4.997E-08 | 12800 |
| | 132.0 | 6 | 1.961E-09 | 9.609E-09 | 12800 |
| 5 | 133.0 | 35 | 1.111E-08 | 5.445E-08 | 12800 |
| 8 | 134.0 | 30 | 9.544E-09 | 4.677E-08 | 12800 |
| 4 | 135.0 | 18 | 5.753E-09 | 2.819E-08 | 12800 |
| 9 | 136.0 | 14 | 4.445E-09 | 2.178E-08 | 12800 |
| 4 | 137.0 | 37 | 1.177E-08 | 5.766E-08 | 12800 |
| 5 | 138.0 | 12 | 3.922E-09 | 1.922E-08 | 12800 |
| 5 | 139.0 | 41 | 1.294E-08 | 6.342E-08 | 12800 |
| 8 | 140.0 | 20 | 6.276E-09 | 3.075E-08 | 12800 |
| 6 | 141.0 | 14 | 4.445E-09 | 2.178E-08 | 12800 |
| | 142.0 | 5 | 1.569E-09 | 7.686E-09 | 12800 |
| | 143.0 | 12 | 3.791E-09 | 1.856E-08 | 12800 |
| 7 | 144.0 | 30 | 9.544E-09 | 4.677E-08 | 12800 |
| 6 | 145.0 | 6 | 2.092E-09 | 1.025E-08 | 12800 |
| | 146.0 | 5 | 1.700E-09 | 8.326E-09 | 12800 |
| | 147.0 | 17 | 5.340E-09 | 2.627E-08 | 12800 |
| | 148.0 | 8 | 2.746E-09 | 1.345E-08 | 12800 |
| 7 | 149.0 | 6 | 1.961E-09 | 9.609E-09 | 12800 |
| 5 | 150.0 | 2 | 6.537E-10 | 3.203E-09 | 12800 |
| 8 | 151.0 | 2 | 6.537E-10 | 3.203E-09 | 12800 |

CROSSWIND INTEGRATED= 9.084E-05 SEC/SQ.M 4.451E-04 1/M

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. DISTRIBUTION TENDS TOWARD BIMODAL.
ALL ARCS EXCEPT 7000M EMBRACE CROSSWIND EXTENT OF BOTH TRACERS. THE SKEWING OF 7000M DATA TO THE SOUTH IS NOT READILY EXPLAINABLE.

TEST U70 JULY 19, 1968 0108 TO 0138 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 0 | 0. | 0. | 400 |
| 86.0 | 24 | 7.774E-09 | 6.064E-08 | 400 |
| 90.0 | 9 | 2.962E-09 | 2.310E-08 | 400 |
| 94.0 | 139 | 4.480E-08 | 3.494E-07 | 400 |
| 98.0 | 5731 | 1.837E-06 | 1.433E-05 | 400 |
| 102.0 | 17359 | 5.564E-06 | 4.340E-05 | 400 |
| 106.0 | 14542 | 4.661E-06 | 3.636E-05 | 400 |
| 110.0 | 21486 | 6.887E-06 | 5.372E-05 | 400 |
| 114.0 | 15147 | 4.855E-06 | 3.767E-05 | 400 |
| 118.0 | 25167 | 8.066E-06 | 6.292E-05 | 400 |
| 122.0 | 62309 | 1.997E-05 | 1.558E-04 | 400 |
| 126.0 | 56614 | 1.815E-05 | 1.415E-04 | 400 |
| 130.0 | 16375 | 5.248E-06 | 4.094E-05 | 400 |
| 134.0 | 2025 | 6.493E-07 | 5.065E-06 | 400 |
| 138.0 | 4 | 1.481E-09 | 1.155E-08 | 400 |
| 142.0 | 1 | 3.702E-10 | 2.888E-09 | 400 |

CROSSWIND INTEGRATED= 2.121E-03 SEC/SQ.M 1.654E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.0 | 0 | 0. | 0. | 800 |
| 91.0 | 8 | 2.591E-09 | 2.021E-08 | 800 |
| 94.0 | 0 | 0. | 0. | 800 |
| 97.0 | 449 | 1.440E-07 | 1.123E-06 | 800 |
| 97.1 | 605 | 1.940E-07 | 1.513E-06 | 806 |
| 99.1 | 3286 | 1.053E-06 | 8.216E-06 | 809 |
| 101.1 | 5378 | 1.724E-06 | 1.345E-05 | 813 |
| 103.0 | 12289 | 3.939E-06 | 3.072E-05 | 816 |
| 105.0 | 17573 | 5.632E-06 | 4.393E-05 | 820 |
| 106.9 | 16724 | 5.360E-06 | 4.181E-05 | 823 |
| 108.8 | 22764 | 7.296E-06 | 5.691E-05 | 826 |
| 110.7 | 14490 | 4.644E-06 | 3.623E-05 | 829 |
| 112.6 | 13658 | 4.378E-06 | 3.415E-05 | 833 |
| 114.5 | 13230 | 4.240E-06 | 3.308E-05 | 836 |
| 116.4 | 13525 | 4.335E-06 | 3.381E-05 | 839 |
| 118.3 | 12700 | 4.071E-06 | 3.175E-05 | 842 |
| 120.2 | 25831 | 8.279E-06 | 6.458E-05 | 845 |
| 122.1 | 43082 | 1.381E-05 | 1.077E-04 | 848 |
| 124.0 | 53480 | 1.714E-05 | 1.337E-04 | 851 |
| 125.8 | 49527 | 1.587E-05 | 1.238E-04 | 854 |
| 127.7 | 27564 | 8.835E-06 | 6.891E-05 | 857 |
| 129.5 | 13773 | 4.415E-06 | 3.443E-05 | 859 |
| 131.4 | 4681 | 1.500E-06 | 1.170E-05 | 862 |
| 133.2 | 445 | 1.432E-07 | 1.117E-06 | 865 |
| 135.0 | 59 | 1.894E-08 | 1.478E-07 | 867 |
| 136.8 | 0 | 0. | 0. | 869 |

CROSSWIND INTEGRATED= 3.239E-03 SEC/SQ.M 2.526E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
400M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 400 |
| 94.0 | 1054 | 3.964E-07 | 1.855E-06 | 400 |
| 98.0 | 11778 | 4.314E-06 | 2.071E-05 | 400 |
| 102.0 | 39093 | 1.432E-05 | 6.874E-05 | 400 |
| 106.0 | 33228 | 1.217E-05 | 5.842E-05 | 400 |
| 110.0 | 26058 | 9.545E-06 | 4.582E-05 | 400 |
| 114.0 | 41700 | 1.528E-05 | 7.332E-05 | 400 |
| 118.0 | 80372 | 2.944E-05 | 1.413E-04 | 400 |
| 122.0 | 175964 | 6.446E-05 | 3.094E-04 | 400 |
| 126.0 | 156411 | 5.729E-05 | 2.750E-04 | 400 |
| 130.0 | 53432 | 1.957E-05 | 9.395E-05 | 400 |
| 134.0 | 2711 | 9.934E-07 | 4.768E-06 | 400 |
| 138.0 | 62 | 2.296E-08 | 1.102E-07 | 400 |
| 142.0 | 14 | 5.147E-09 | 2.471E-08 | 400 |
| 146.0 | 16 | 5.939E-09 | 2.851E-08 | 400 |
| 150.0 | 7 | 2.771E-09 | 1.330E-08 | 400 |

CROSSWIND INTEGRATED= 6.362E-03 SEC/SQ.M 3.054E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 0 | 2.771E-10 | 1.330E-09 | 800 |
| 97.0 | 343 | 1.257E-07 | 6.034E-07 | 800 |
| 97.1 | 574 | 2.106E-07 | 1.011E-06 | 806 |
| 99.1 | 4819 | 1.765E-06 | 8.473E-06 | 809 |
| 101.1 | 6076 | 2.226E-06 | 1.068E-05 | 813 |
| 103.0 | 34583 | 1.267E-05 | 6.081E-05 | 816 |
| 105.0 | 17358 | 6.359E-06 | 3.052E-05 | 820 |
| 106.9 | 16004 | 5.863E-06 | 2.814E-05 | 823 |
| 108.8 | 12620 | 4.623E-06 | 2.219E-05 | 826 |
| 110.7 | 9461 | 3.466E-06 | 1.663E-05 | 829 |
| 112.6 | 9009 | 3.300E-06 | 1.584E-05 | 833 |
| 114.5 | 15779 | 5.780E-06 | 2.774E-05 | 836 |
| 116.4 | 22548 | 8.260E-06 | 3.965E-05 | 839 |
| 118.3 | 22548 | 8.260E-06 | 3.965E-05 | 842 |
| 120.2 | 28565 | 1.046E-05 | 5.023E-05 | 845 |
| 122.1 | 60758 | 2.226E-05 | 1.068E-04 | 848 |
| 124.0 | 83548 | 3.060E-05 | 1.469E-04 | 851 |
| 125.8 | 78122 | 2.862E-05 | 1.374E-04 | 854 |
| 127.7 | 42308 | 1.550E-05 | 7.439E-05 | 857 |
| 129.5 | 20292 | 7.433E-06 | 3.568E-05 | 859 |
| 131.4 | 5850 | 2.143E-06 | 1.029E-05 | 862 |
| 133.2 | 427 | 1.567E-07 | 7.519E-07 | 865 |
| 135.0 | 31 | 1.141E-08 | 5.479E-08 | 867 |
| 136.8 | 2 | 7.872E-10 | 3.778E-09 | 870 |

CROSSWIND INTEGRATED= 4.989E-03 SEC/SQ.M 2.395E-02 1/M



U70 1202777

TEST U70 JULY 19, 1968 0109 TO 0139 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 1200 |
| 94.0 | 2 | 8.934E-10 | 6.958E-09 | 1200 |
| 96.0 | 8 | 2.680E-09 | 2.091E-08 | 1200 |
| 98.0 | 24 | 7.817E-09 | 6.097E-08 | 1200 |
| 100.0 | 429 | 1.378E-07 | 1.075E-06 | 1200 |
| 102.0 | 2077 | 6.658E-07 | 5.193E-06 | 1200 |
| 104.0 | 4339 | 1.391E-06 | 1.085E-05 | 1200 |
| 106.0 | 10423 | 3.341E-06 | 2.606E-05 | 1200 |
| 108.0 | 15006 | 4.810E-06 | 3.752E-05 | 1200 |
| 110.0 | 11219 | 3.596E-06 | 2.805E-05 | 1200 |
| 112.0 | 8481 | 2.719E-06 | 2.120E-05 | 1200 |
| 114.0 | 10575 | 3.390E-06 | 2.644E-05 | 1200 |
| 116.0 | 4107 | 1.316E-06 | 1.027E-05 | 1200 |
| 118.0 | 5958 | 1.910E-06 | 1.490E-05 | 1200 |
| 120.0 | 14300 | 4.584E-06 | 3.575E-05 | 1200 |
| 122.0 | 16746 | 5.367E-06 | 4.187E-05 | 1200 |
| 124.0 | 26128 | 8.375E-06 | 6.532E-05 | 1200 |
| 126.0 | 22772 | 7.299E-06 | 5.693E-05 | 1200 |
| 128.0 | 7658 | 2.455E-06 | 1.915E-05 | 1200 |
| 130.0 | 4457 | 1.429E-06 | 1.114E-05 | 1200 |
| 132.0 | 627 | 2.012E-07 | 1.570E-06 | 1200 |
| 134.0 | 23 | 7.594E-09 | 5.923E-08 | 1200 |
| 136.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.220E-03 SEC/SQ.M 1.732E-02 1/M

TEST U71 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.0 | 8 | 3.114E-09 | 1.495E-08 | 1200 |
| 100.0 | 326 | 1.196E-07 | 5.740E-07 | 1200 |
| 102.0 | 1554 | 5.694E-07 | 2.733E-06 | 1200 |
| 104.0 | 4175 | 1.529E-06 | 7.341E-06 | 1200 |
| 106.0 | 6707 | 2.457E-06 | 1.179E-05 | 1200 |
| 108.0 | 5314 | 1.947E-06 | 9.344E-06 | 1200 |
| 110.0 | 4175 | 1.529E-06 | 7.341E-06 | 1200 |
| 112.0 | 3921 | 1.437E-06 | 6.896E-06 | 1200 |
| 114.0 | 5061 | 1.854E-06 | 8.899E-06 | 1200 |
| 3 116.0 | 4934 | 1.808E-06 | 8.676E-06 | 1200 |
| 118.0 | 5187 | 1.900E-06 | 9.122E-06 | 1200 |
| 120.0 | 9678 | 3.545E-06 | 1.702E-05 | 1200 |
| 122.0 | 15219 | 5.575E-06 | 2.676E-05 | 1200 |
| 124.0 | 18872 | 6.913E-06 | 3.318E-05 | 1200 |
| 126.0 | 23743 | 8.697E-06 | 4.175E-05 | 1200 |
| 4 126.0 | 11505 | 4.214E-06 | 2.023E-05 | 1200 |
| 130.0 | 3162 | 1.158E-06 | 5.560E-06 | 1200 |
| 132.0 | 478 | 1.752E-07 | 8.411E-07 | 1200 |
| 104.0 | 20 | 7.398E-09 | 3.551E-08 | 1200 |
| 136.0 | 2 | 7.950E-10 | 3.816E-09 | 1200 |

CROSSWIND INTEGRATED= 1.848E-03 SEC/SQ.M 8.872E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 1 | 4.467E-10 | 3.484E-09 | 1600 |
| 93.6 | 3 | 1.218E-09 | 9.502E-09 | 1603 |
| 94.0 | 10 | 3.350E-09 | 2.613E-08 | 1600 |
| 94.6 | 39 | 1.218E-08 | 9.502E-08 | 1604 |
| 95.6 | 0 | 0. | 0. | 1606 |
| 96.6 | 0 | 0. | 0. | 1608 |
| 97.6 | 45 | 1.462E-08 | 1.140E-07 | 1610 |
| 98.6 | 0 | 0. | 0. | 1611 |
| 99.6 | 0 | 0. | 0. | 1613 |
| 100.6 | 0 | 0. | 0. | 1615 |
| 101.6 | 93 | 2.985E-08 | 2.328E-07 | 1617 |
| 102.6 | 269 | 8.649E-08 | 6.746E-07 | 1618 |
| S 103.6 | 271 | 8.710E-08 | 6.794E-07 | 1620 |
| 104.5 | 1347 | 4.318E-07 | 3.368E-06 | 1622 |
| 105.5 | 2392 | 7.668E-07 | 5.981E-06 | 1623 |
| 106.5 | 5841 | 1.872E-06 | 1.460E-05 | 1625 |
| 107.5 | 8861 | 2.840E-06 | 2.215E-05 | 1627 |
| 108.5 | 12122 | 3.885E-06 | 3.031E-05 | 1628 |
| 109.5 | 7947 | 2.547E-06 | 1.987E-05 | 1630 |
| 110.4 | 5583 | 1.793E-06 | 1.398E-05 | 1632 |
| 111.4 | 8274 | 2.659E-06 | 2.069E-05 | 1633 |
| 112.4 | 9923 | 3.181E-06 | 2.481E-05 | 1635 |
| 113.4 | 7804 | 2.502E-06 | 1.951E-05 | 1637 |
| 114.4 | 4311 | 1.382E-06 | 1.078E-05 | 1638 |
| 115.3 | 3707 | 1.188E-06 | 9.269E-06 | 1640 |
| 116.3 | 3610 | 1.157E-06 | 9.027E-06 | 1641 |
| 117.3 | 4511 | 1.446E-06 | 1.128E-05 | 1643 |
| 118.2 | 5837 | 1.871E-06 | 1.459E-05 | 1644 |
| 119.2 | 6316 | 2.025E-06 | 1.579E-05 | 1646 |
| 120.2 | 7723 | 2.475E-06 | 1.931E-05 | 1647 |
| 121.2 | 8884 | 2.848E-06 | 2.221E-05 | 1649 |
| 122.1 | 11712 | 3.754E-06 | 2.928E-05 | 1650 |
| 123.1 | 13089 | 4.195E-06 | 3.272E-05 | 1652 |
| 124.1 | 12918 | 4.141E-06 | 3.230E-05 | 1653 |
| S 125.0 | 8511 | 2.728E-06 | 2.128E-05 | 1655 |
| 126.0 | 12818 | 4.108E-06 | 3.203E-05 | 1656 |
| 126.9 | 13764 | 4.412E-06 | 3.441E-05 | 1658 |
| 127.8 | 9593 | 3.075E-06 | 2.398E-05 | 1659 |
| 128.8 | 3833 | 1.229E-06 | 9.583E-06 | 1660 |
| 129.7 | 1940 | 6.219E-07 | 4.851E-06 | 1662 |

TEST U71 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
1600M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.6 | 0 | 0. | 0. | 1600 |
| 100.6 | 9 | 3.547E-09 | 1.703E-08 | 1615 |
| 101.6 | 139 | 5.113E-08 | 2.454E-07 | 1617 |
| 102.6 | 503 | 1.844E-07 | 8.850E-07 | 1618 |
| T 103.6 | 460 | 1.688E-07 | 8.103E-07 | 1620 |
| 104.5 | 1977 | 7.243E-07 | 3.477E-06 | 1622 |
| 105.5 | 2225 | 8.151E-07 | 3.913E-06 | 1623 |
| 106.5 | 5945 | 2.178E-06 | 1.045E-05 | 1625 |
| 107.5 | 6094 | 2.232E-06 | 1.072E-05 | 1627 |
| 108.5 | 7433 | 2.723E-06 | 1.307E-05 | 1628 |
| 109.5 | 3465 | 1.269E-06 | 6.093E-06 | 1630 |
| 110.4 | 2572 | 9.423E-07 | 4.523E-06 | 1632 |
| 111.4 | 3663 | 1.342E-06 | 6.442E-06 | 1633 |
| 112.4 | 4457 | 1.633E-06 | 7.837E-06 | 1635 |
| 113.4 | 3862 | 1.415E-06 | 6.791E-06 | 1637 |
| 114.4 | 2225 | 8.151E-07 | 3.913E-06 | 1638 |
| 115.3 | 2622 | 9.605E-07 | 4.610E-06 | 1640 |
| 116.3 | 3564 | 1.306E-06 | 6.267E-06 | 1641 |
| 117.3 | 4755 | 1.742E-06 | 8.361E-06 | 1643 |
| 118.2 | 4308 | 1.578E-06 | 7.576E-06 | 1644 |
| 119.2 | 4755 | 1.742E-06 | 8.361E-06 | 1646 |
| 120.2 | 4159 | 1.524E-06 | 7.314E-06 | 1647 |
| 121.2 | 4011 | 1.469E-06 | 7.052E-06 | 1649 |
| 122.1 | 8326 | 3.050E-06 | 1.464E-05 | 1650 |
| 123.1 | 7731 | 2.832E-06 | 1.359E-05 | 1652 |
| 124.1 | 9517 | 3.486E-06 | 1.673E-05 | 1653 |
| T 125.0 | 6391 | 2.341E-06 | 1.124E-05 | 1655 |
| 126.0 | 12932 | 4.737E-06 | 2.274E-05 | 1656 |
| 126.9 | 11905 | 4.361E-06 | 2.093E-05 | 1658 |
| 127.8 | 6094 | 2.232E-06 | 1.072E-05 | 1659 |
| 128.8 | 2225 | 8.151E-07 | 3.913E-06 | 1660 |
| 129.7 | 1431 | 5.244E-07 | 2.517E-06 | 1662 |

| | | | | |
|---|---|---|---|---|
| 130.6 | 15051 | 4.824E-07 | 3.763E-06 | 1663 |
| 131.5 | 983 | 1.230E-07 | 9.597E-07 | 1664 |
| 132.5 | 38 | 1.218E-08 | 9.502E-06 | 1665 |
| 133.5 | 30 | 9.746E-09 | 7.601E-08 | 1667 |
| 134.4 | 0 | 0. | 0. | 1668 |

CROSSWIND INTEGRATED= 1.831E-03 SEC/SQ.M  1.428E-02 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 0 | 0. | 0. | 2200 |
| 96.0 | 14 | 4.729E-09 | 3.689E-06 | 2200 |
| X 98.0 | 0 | 0. | 0. | 2200 |
| 100.0 | 0 | 2.489E-10 | 1.942E-09 | 2200 |
| 102.0 | 23 | 7.468E-09 | 5.825E-06 | 2200 |
| 104.0 | 11 | 3.609E-09 | 2.815E-08 | 2200 |
| 106.0 | 176 | 5.651E-08 | 4.407E-07 | 2200 |
| 108.0 | 2110 | 6.766E-07 | 5.277E-06 | 2200 |
| F 110.0 | 5731 | 1.837E-06 | 1.433E-05 | 2200 |
| 112.0 | 3152 | 1.010E-06 | 7.892E-06 | 2200 |
| 114.0 | 2809 | 9.009E-07 | 7.024E-06 | 2200 |
| 116.0 | 2995 | 9.602E-07 | 7.490E-06 | 2200 |
| 118.0 | 1458 | 4.673E-07 | 3.645E-06 | 2200 |
| F 120.0 | 3149 | 1.009E-06 | 7.874E-06 | 2200 |
| 122.0 | 5191 | 1.664E-06 | 1.296E-05 | 2200 |
| 124.0 | 3842 | 1.232E-06 | 9.607E-06 | 2200 |
| 126.0 | 7103 | 2.277E-06 | 1.776E-05 | 2200 |
| 128.0 | 1673 | 5.363E-07 | 4.183E-06 | 2200 |
| 130.0 | 558 | 1.791E-07 | 1.397E-06 | 2200 |
| 132.0 | 34 | 1.095E-08 | 8.543E-08 | 2200 |
| U 134.0 | 0 | 0. | 0. | 2200 |
| 136.0 | 0 | 2.449E-10 | 1.942E-09 | 2200 |

CROSSWIND INTEGRATED= 9.855E-04 SEC/SQ.M  7.687E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 105.6 | 0 | 0. | 0. | 3200 |
| 106.8 | 21 | 5.952E-09 | 5.422E-09 | 3227 |
| 107.8 | 404 | 1.310E-07 | 1.022E-06 | 3229 |
| 108.8 | 1171 | 3.754E-07 | 2.928E-06 | 3230 |
| 109.7 | 2515 | 8.064E-07 | 6.290E-06 | 3232 |
| 110.7 | 5088 | 1.631E-06 | 1.272E-05 | 3233 |
| 111.7 | 6905 | 2.213E-06 | 1.726E-05 | 3235 |
| 112.7 | 8593 | 2.754E-06 | 2.148E-05 | 3237 |
| 113.7 | 9041 | 2.898E-06 | 2.260E-05 | 3238 |
| 114.6 | 10729 | 3.439E-06 | 2.682E-05 | 3240 |
| 115.6 | 6136 | 1.967E-06 | 1.534E-05 | 3241 |
| 116.6 | 4460 | 1.494E-06 | 1.165E-05 | 3243 |
| 117.6 | 2529 | 8.108E-07 | 6.324E-06 | 3245 |
| 118.6 | 2352 | 7.541E-07 | 5.882E-06 | 3246 |
| 119.5 | 2656 | 8.514E-07 | 6.641E-06 | 3248 |
| 120.5 | 3831 | 1.228E-06 | 9.578E-06 | 3249 |
| 121.5 | 4230 | 1.356E-06 | 1.057E-05 | 3251 |
| C 122.4 | 5583 | 1.790E-06 | 1.396E-05 | 3252 |
| C 123.4 | 6862 | 2.200E-06 | 1.716E-05 | 3253 |
| C 124.4 | 6292 | 2.017E-06 | 1.573E-05 | 3255 |
| 125.4 | 5541 | 1.776E-06 | 1.385E-05 | 3256 |
| 126.3 | 3238 | 1.038E-06 | 8.096E-06 | 3258 |
| 127.3 | 1526 | 4.892E-07 | 3.816E-06 | 3259 |
| 128.3 | 437 | 1.401E-07 | 1.093E-06 | 3261 |
| 129.3 | 168 | 5.415E-08 | 4.224E-07 | 3262 |
| 130.3 | 6 | 2.195E-09 | 1.712E-08 | 3263 |
| 131.2 | 0 | 0. | 0. | 3264 |

CROSSWIND INTEGRATED= 1.782E-03 SEC/SQ.M  1.390E-02 1/M

| | | | | |
|---|---|---|---|---|
| 130.6 | 930 | 3.409E-07 | 1.636E-06 | 1663 |
| 131.5 | 234 | 8.574E-08 | 4.116E-07 | 1664 |
| 132.5 | 28 | 1.047E-08 | 5.025E-08 | 1665 |
| 133.5 | 32 | 1.203E-08 | 5.773E-08 | 1667 |
| 134.4 | 0 | 0. | 0. | 1668 |

CROSSWIND INTEGRATED= 1.430E-03 SEC/SQ.M  6.862E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
2200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 3 | 1.101E-09 | 5.286E-09 | 2200 |
| 104.0 | 94 | 3.449E-08 | 1.656E-07 | 2200 |
| 106.0 | 325 | 1.194E-07 | 5.730E-07 | 2200 |
| 108.0 | 1706 | 6.252E-07 | 3.001E-06 | 2200 |
| S 110.0 | 2464 | 9.026E-07 | 4.332E-06 | 2200 |
| 4 112.0 | 1831 | 6.704E-07 | 3.220E-06 | 2200 |
| 114.0 | 2369 | 8.678E-07 | 4.166E-06 | 2200 |
| 116.0 | 2843 | 1.042E-06 | 5.000E-06 | 2200 |
| 118.0 | 1293 | 4.739E-07 | 2.275E-06 | 2200 |
| U 120.0 | 787 | 2.886E-07 | 1.385E-06 | 2200 |
| 122.0 | 3128 | 1.146E-06 | 5.500E-06 | 2200 |
| 124.0 | 3792 | 1.389E-06 | 6.668E-06 | 2200 |
| 126.0 | 4077 | 1.493E-06 | 7.168E-06 | 2200 |
| 128.0 | 1022 | 3.747E-07 | 1.799E-06 | 2200 |
| 130.0 | 431 | 1.579E-07 | 7.580E-07 | 2200 |
| 132.0 | 15 | 5.816E-09 | 2.791E-08 | 2200 |
| 0 134.0 | 7 | 2.833E-09 | 1.360E-08 | 2200 |
| 136.0 | 0 | 3.097E-10 | 1.487E-09 | 2200 |

CROSSWIND INTEGRATED= 7.369E-04 SEC/SQ.M  3.537E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
3200M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 103.9 | 0 | 0. | 0. | 3200 |
| 104.9 | 0 | 0. | 0. | 3224 |
| 105.8 | 3 | 1.404E-09 | 6.762E-09 | 3225 |
| 106.8 | 1 | 4.695E-10 | 2.254E-09 | 3227 |
| 107.8 | 254 | 9.319E-08 | 4.470E-07 | 3229 |
| 108.8 | 906 | 3.322E-07 | 1.595E-06 | 3230 |
| 109.7 | 1669 | 6.116E-07 | 2.936E-06 | 3232 |
| 110.7 | 2477 | 9.074E-07 | 4.356E-06 | 3233 |
| 111.7 | 3150 | 1.154E-06 | 5.539E-06 | 3235 |
| 112.7 | 3890 | 1.425E-06 | 6.840E-06 | 3237 |
| 113.7 | 3957 | 1.450E-06 | 6.959E-06 | 3238 |
| 114.6 | 4832 | 1.770E-06 | 8.497E-06 | 3240 |
| 115.6 | 3015 | 1.105E-06 | 5.302E-06 | 3241 |
| 116.6 | 1871 | 6.855E-07 | 3.291E-06 | 3243 |
| 117.6 | 1288 | 4.719E-07 | 2.265E-06 | 3245 |
| 118.6 | 1131 | 4.144E-07 | 1.989E-06 | 3246 |
| 119.5 | 1736 | 6.362E-07 | 3.054E-06 | 3248 |
| 120.5 | 2544 | 9.321E-07 | 4.474E-06 | 3249 |
| 121.5 | 3352 | 1.228E-06 | 5.894E-06 | 3251 |
| C 122.4 | 3284 | 1.203E-06 | 5.775E-06 | 3252 |
| C 123.4 | 4159 | 1.524E-06 | 7.314E-06 | 3253 |
| C 124.4 | 3621 | 1.326E-06 | 6.367E-06 | 3255 |
| 125.4 | 3823 | 1.400E-06 | 6.722E-06 | 3256 |
| 126.3 | 2544 | 9.321E-07 | 4.474E-06 | 3258 |
| 127.3 | 1041 | 3.815E-07 | 1.831E-06 | 3259 |
| 128.3 | 339 | 1.244E-07 | 5.973E-07 | 3261 |
| 129.3 | 73 | 2.700E-08 | 1.296E-07 | 3262 |
| 130.3 | 14 | 5.478E-09 | 2.629E-08 | 3263 |
| 131.2 | 1 | 7.043E-10 | 3.381E-09 | 3264 |

CROSSWIND INTEGRATED= 1.113E-03 SEC/SQ.M  5.341E-03 1/M



U70 1202779

TEST U70 JULY 19, 1968 0108 TO 0138 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 2.489E-10 | 1.942E-09 | 4920 |
| 112.0 | 240 | 7.704E-08 | 6.009E-07 | 4990 |
| 114.0 | 2096 | 6.721E-07 | 5.242E-06 | 5080 |
| 116.0 | 1327 | 4.255E-07 | 3.319E-06 | 5020 |
| 118.0 | 686 | 2.202E-07 | 1.717E-06 | 5100 |
| 6 120.0 | 97 | 3.124E-08 | 2.437E-07 | 5130 |
| 6 122.0 | 1217 | 3.903E-07 | 3.044E-06 | 4830 |
| 124.0 | 849 | 2.722E-07 | 2.123E-06 | 4660 |
| 126.0 | 551 | 1.769E-07 | 1.379E-06 | 4770 |
| 128.0 | 130 | 4.169E-08 | 3.252E-07 | 4900 |
| 130.0 | 1 | 4.978E-10 | 3.883E-09 | 4970 |
| 132.0 | 0 | 0. | 0. | 4980 |

CROSSWIND INTEGRATED= 3.987E-04 SEC/SQ.M 3.110E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
5000M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.0 | 4 | 1.652E-09 | 7.928E-09 | 4870 |
| 0 110.0 | 0 | 0. | 0. | 4920 |
| 112.0 | 376 | 1.379E-07 | 6.620E-07 | 4990 |
| 114.0 | 2033 | 7.449E-07 | 3.576E-06 | 5080 |
| 116.0 | 1507 | 5.522E-07 | 2.651E-06 | 5020 |
| 118.0 | 646 | 2.367E-07 | 1.136E-06 | 5100 |
| 6 120.0 | 784 | 2.873E-07 | 1.379E-06 | 5130 |
| 6 122.0 | 1639 | 6.004E-07 | 2.882E-06 | 4830 |
| 124.0 | 1099 | 4.029E-07 | 1.934E-06 | 4660 |
| 126.0 | 803 | 2.945E-07 | 1.414E-06 | 4770 |
| 128.0 | 89 | 3.262E-08 | 1.566E-07 | 4900 |
| 130.0 | 22 | 8.190E-09 | 3.931E-08 | 4970 |
| 132.0 | 2 | 1.078E-09 | 5.175E-09 | 4980 |

CROSSWIND INTEGRATED= 5.697E-04 SEC/SQ.M 2.735E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 0. | 0. | 6500 |
| 4 88.0 | 8 | 2.614E-09 | 2.039E-08 | 6480 |
| 4 90.0 | 13 | 4.232E-09 | 3.301E-08 | 6500 |
| 4 92.0 | 50 | 1.618E-08 | 1.262E-07 | 6490 |
| 4 94.0 | 21 | 6.970E-09 | 5.436E-08 | 6500 |
| 4 96.0 | 20 | 6.721E-09 | 5.242E-08 | 6510 |
| 4 98.0 | 22 | 7.343E-09 | 5.725E-08 | 6520 |
| 4 100.0 | 8 | 2.738E-09 | 2.136E-08 | 6560 |
| 4 102.0 | 20 | 6.472E-09 | 5.048E-08 | 6610 |
| 4 104.0 | 24 | 7.717E-09 | 6.019E-08 | 6650 |
| 4 106.0 | 8 | 2.569E-09 | 2.233E-08 | 6720 |
| E 108.0 | 22 | 7.343E-09 | 5.726E-08 | 6800 |
| E 110.0 | 55 | 1.768E-08 | 1.388E-07 | 7000 |
| 5 112.0 | 88 | 2.839E-08 | 2.213E-07 | 7300 |
| 4 114.0 | 546 | 1.752E-07 | 1.367E-06 | 7210 |
| 4 116.0 | 1774 | 5.688E-07 | 4.437E-06 | 7220 |
| 118.0 | 3256 | 1.044E-06 | 8.141E-06 | 7190 |
| 120.0 | 1593 | 5.107E-07 | 3.985E-06 | 7150 |
| 7 122.0 | 598 | 1.919E-07 | 1.497E-06 | 7120 |
| 5 124.0 | 1251 | 4.011E-07 | 3.129E-06 | 7100 |
| 5 126.0 | 770 | 2.468E-07 | 1.925E-06 | 7100 |
| 4 128.0 | 151 | 4.854E-08 | 3.786E-07 | 7100 |
| 130.0 | 100 | 3.211E-08 | 2.505E-07 | 7130 |
| E 132.0 | 100 | 3.236E-08 | 2.524E-07 | 7150 |
| 4 134.0 | 105 | 3.373E-08 | 2.631E-07 | 7200 |
| 4 136.0 | 69 | 2.215E-08 | 1.728E-07 | 7250 |
| 138.0 | 73 | 2.352E-08 | 1.835E-07 | 7300 |
| E 140.0 | 72 | 2.327E-08 | 1.815E-07 | 7350 |
| 4 142.0 | 71 | 2.303E-08 | 1.796E-07 | 7250 |
| 7 144.0 | 44 | 1.431E-08 | 1.116E-07 | 7110 |
| R 146.0 | 100 | 3.236E-08 | 2.524E-07 | 7100 |

CROSSWIND INTEGRATED= 8.846E-04 SEC/SQ.M 6.900E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
7000M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 90.0 | 0 | 0. | 0. | 6500 |
| 4 92.0 | 4 | 1.721E-09 | 8.259E-09 | 6490 |
| 4 94.0 | 72 | 2.638E-08 | 1.266E-07 | 6500 |
| 4 96.0 | 4 | 1.721E-09 | 8.259E-09 | 6510 |
| 4 98.0 | 23 | 8.603E-09 | 4.129E-08 | 6520 |
| 4 100.0 | 29 | 1.067E-08 | 5.120E-08 | 6560 |
| 4 102.0 | 17 | 6.538E-09 | 3.138E-08 | 6610 |
| 4 104.0 | 15 | 5.506E-09 | 2.643E-08 | 6650 |
| 4 106.0 | 0 | 0. | 0. | 6720 |
| E 108.0 | 3 | 1.376E-09 | 6.607E-09 | 6800 |
| 9 110.0 | 4 | 1.721E-09 | 8.259E-09 | 7000 |
| 5 112.0 | 84 | 3.097E-08 | 1.487E-07 | 7300 |
| 4 114.0 | 353 | 1.294E-07 | 6.211E-07 | 7210 |
| 4 116.0 | 1135 | 4.160E-07 | 1.997E-06 | 7220 |
| 4 118.0 | 1392 | 5.100E-07 | 2.448E-06 | 7190 |
| 5 120.0 | 721 | 2.643E-07 | 1.269E-06 | 7150 |
| 7 122.0 | 938 | 3.438E-07 | 1.650E-06 | 7120 |
| 7 124.0 | 977 | 3.582E-07 | 1.719E-06 | 7100 |
| 5 126.0 | 757 | 2.774E-07 | 1.331E-06 | 7100 |
| 4 128.0 | 103 | 3.765E-08 | 1.817E-07 | 7100 |
| 5 130.0 | 42 | 1.549E-08 | 7.433E-08 | 7130 |
| E 132.0 | 35 | 1.308E-08 | 6.277E-08 | 7150 |
| 4 134.0 | 27 | 9.979E-09 | 4.790E-08 | 7200 |
| 4 136.0 | 33 | 1.239E-08 | 5.946E-08 | 7250 |
| 4 138.0 | 28 | 1.032E-08 | 4.955E-08 | 7300 |
| E 140.0 | 27 | 9.979E-09 | 4.790E-08 | 7350 |
| 4 142.0 | 27 | 9.979E-09 | 4.790E-08 | 7250 |
| 7 144.0 | 24 | 8.947E-09 | 4.295E-08 | 7110 |
| R 146.0 | 17 | 6.538E-09 | 3.136E-08 | 7100 |

CROSSWIND INTEGRATED= 6.306E-04 SEC/SQ.M 3.027E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST.
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 7.8 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 91.0 | 4 | 1.494E-09 | 1.165E-08 | 12800 |
| P | 92.0 | 0 | 2.489E-10 | 1.942E-09 | 12800 |
| | 93.0 | 11 | 3.609E-09 | 2.815E-08 | 12800 |
| | 94.0 | 9 | 2.987E-09 | 2.330E-08 | 12800 |
| | 95.0 | 3 | 1.245E-09 | 9.708E-09 | 12800 |
| 5 | 96.0 | 9 | 2.987E-09 | 2.330E-08 | 12800 |
| 5 | 97.0 | 13 | 4.356E-09 | 3.394E-08 | 12800 |
| 7 | 98.0 | 0 | 2.489E-10 | 1.942E-09 | 12800 |
| 4 | 99.0 | 6 | 2.116E-09 | 1.650E-08 | 12800 |
| | 100.0 | 16 | 5.352E-09 | 4.174E-08 | 12800 |
| | 101.0 | 11 | 3.609E-09 | 2.815E-08 | 12800 |
| 4 | 102.0 | 6 | 2.240E-09 | 1.747E-08 | 12800 |
| 4 | 103.0 | 0 | 0. | 0. | 12800 |
| | 104.0 | 4 | 1.369E-09 | 1.068E-08 | 12800 |
| 5 | 105.0 | 0 | 2.489E-10 | 1.942E-09 | 12800 |
| 4 | 106.0 | 1 | 4.97EE-10 | 3.883E-09 | 12800 |
| 4 | 107.0 | 5 | 1.618E-09 | 1.262E-08 | 12800 |
| 4 | 108.0 | 8 | 2.863E-09 | 2.233E-08 | 12800 |
| 4 | 109.0 | 2 | 7.468E-10 | 5.825E-09 | 12800 |
| 4 | 110.0 | 14 | 4.605E-09 | 3.592E-08 | 12800 |
| 5 | 111.0 | 5 | 1.618E-09 | 1.262E-08 | 12800 |
| 4 | 112.0 | 27 | 8.837E-09 | 6.895E-08 | 12800 |
| 4 | 113.0 | 11 | 3.609E-09 | 2.815E-08 | 12800 |
| 5 | 114.0 | 16 | 5.352E-09 | 4.174E-08 | 12800 |
| 4 | 115.0 | 45 | 1.469E-08 | 1.146E-07 | 12800 |
| 4 | 116.0 | 69 | 2.215E-08 | 1.728E-07 | 12800 |
| 4 | 117.0 | 143 | 4.605E-08 | 3.592E-07 | 12800 |
| E | 118.0 | 201 | 6.472E-08 | 5.049E-07 | 12800 |
| 4 | 119.0 | 332 | 1.064E-07 | 8.300E-07 | 12800 |
| 4 | 120.0 | 557 | 1.788E-07 | 1.395E-06 | 12800 |
| E | 121.0 | 843 | 2.702E-07 | 2.108E-06 | 12800 |
| | 122.0 | 2061 | 6.606E-07 | 5.153E-06 | 12800 |
| | 123.0 | 1329 | 4.260E-07 | 3.323E-06 | 12800 |
| 5 | 124.0 | 1376 | 4.411E-07 | 3.440E-06 | 12800 |
| 4 | 125.0 | 780 | 2.500E-07 | 1.950E-06 | 12800 |
| 4 | 126.0 | 472 | 1.516E-07 | 1.182E-06 | 12800 |
| 5 | 127.0 | 171 | 5.501E-08 | 4.291E-07 | 12800 |
| 4 | 128.0 | 133 | 4.294E-08 | 3.349E-07 | 12800 |
| 5 | 129.0 | 53 | 1.705E-08 | 1.330E-07 | 12800 |
| 5 | 130.0 | 17 | 5.725E-09 | 4.466E-08 | 12800 |
| 4 | 131.0 | 17 | 5.725E-09 | 4.466E-08 | 12800 |
| 4 | 132.0 | 15 | 5.103E-09 | 3.980E-08 | 12800 |
| 4 | 133.0 | 8 | 2.863E-09 | 2.233E-08 | 12800 |
| E | 134.0 | 2 | 8.712E-10 | 6.796E-09 | 12800 |
| 6 | 135.0 | 0 | 2.489E-10 | 1.942E-09 | 12800 |
| 4 | 136.0 | 3 | 9.957E-10 | 7.766E-09 | 12800 |
| 5 | 137.0 | 3 | 9.957E-10 | 7.766E-09 | 12800 |
| | 138.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 6.325E-04 SEC/SQ.M 4.934E-03 1/M

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
12800M ARC SAMPLER HT 1.5M U= 4.8 M/SEC AT 2M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 100.0 | 3 | 1.147E-09 | 5.506E-09 | 12800 |
| 4 | 101.0 | 6 | 2.294E-09 | 1.101E-08 | 12800 |
| 4 | 102.0 | 0 | 0. | 0. | 12800 |
| 4 | 103.0 | 10 | 4.015E-09 | 1.927E-08 | 12800 |
| | 104.0 | 5 | 1.950E-09 | 9.360E-09 | 12800 |
| 5 | 105.0 | 19 | 7.112E-09 | 3.414E-08 | 12800 |
| 4 | 106.0 | 9 | 3.326E-09 | 1.597E-08 | 12800 |
| 4 | 107.0 | 17 | 6.423E-09 | 3.083E-08 | 12800 |
| 4 | 108.0 | 10 | 3.671E-09 | 1.762E-08 | 12800 |
| 4 | 109.0 | 4 | 1.491E-09 | 7.158E-09 | 12800 |
| 4 | 110.0 | 25 | 9.176E-09 | 4.405E-08 | 12800 |
| 5 | 111.0 | 8 | 2.982E-09 | 1.432E-08 | 12800 |
| 4 | 112.0 | 10 | 4.015E-09 | 1.927E-08 | 12800 |
| 5 | 113.0 | 25 | 9.520E-09 | 4.570E-08 | 12800 |
| 5 | 114.0 | 61 | 2.237E-08 | 1.074E-07 | 12800 |
| 4 | 115.0 | 89 | 3.269E-08 | 1.569E-07 | 12800 |
| 4 | 116.0 | 117 | 4.301E-08 | 2.065E-07 | 12800 |
| 4 | 117.0 | 330 | 1.210E-07 | 5.809E-07 | 12800 |
| E | 118.0 | 383 | 1.406E-07 | 6.750E-07 | 12800 |
| 4 | 119.0 | 410 | 1.503E-07 | 7.213E-07 | 12800 |
| 4 | 120.0 | 614 | 2.249E-07 | 1.080E-06 | 12800 |
| E | 121.0 | 929 | 3.406E-07 | 1.635E-06 | 12800 |
| | 122.0 | 1363 | 4.995E-07 | 2.398E-06 | 12800 |
| | 123.0 | 673 | 2.466E-07 | 1.184E-06 | 12800 |
| 7 | 124.0 | 1245 | 4.562E-07 | 2.190E-06 | 12800 |
| 4 | 125.0 | 949 | 3.478E-07 | 1.669E-06 | 12800 |
| 4 | 126.0 | 357 | 1.310E-07 | 6.288E-07 | 12800 |
| 5 | 127.0 | 155 | 5.678E-08 | 2.725E-07 | 12800 |
| 4 | 128.0 | 108 | 3.957E-08 | 1.900E-07 | 12800 |
| 5 | 129.0 | 51 | 1.881E-08 | 9.030E-08 | 12800 |
| 5 | 130.0 | 19 | 7.112E-09 | 3.414E-08 | 12800 |
| 4 | 131.0 | 29 | 1.090E-08 | 5.231E-08 | 12800 |
| 4 | 132.0 | 11 | 4.359E-09 | 2.092E-08 | 12800 |
| 4 | 133.0 | 5 | 1.950E-09 | 9.360E-09 | 12800 |
| E | 134.0 | 9 | 3.326E-09 | 1.597E-08 | 12800 |
| 6 | 135.0 | 18 | 6.768E-09 | 3.248E-08 | 12800 |
| 4 | 136.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 6.620E-04 SEC/SQ.M 3.178E-03 1/M

SAMPLING 400M TO 12800M: NO TOWER SAMPLING. ZNS DISPERSED FOR 30 MIN: FLUORESCEIN DISPERSED ONLY LAST 15 MIN. ARCS OUT TO 3200M EMBRACE CROSSWIND EXTENT OF TRACER, 5000M, 7000M AND 12800M ARCS TRUNCATED ON NORTH.

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 46.0 | 2 | 1.016E-09 | 3.453E-09 | 400 |
| E | 50.0 | 41 | 1.473E-08 | 5.007E-08 | 400 |
| | 54.0 | 92 | 3.250E-08 | 1.105E-07 | 400 |
| | 58.0 | 2625 | 9.231E-07 | 3.139E-06 | 400 |
| | 62.0 | 10254 | 3.606E-06 | 1.226E-05 | 400 |
| | 66.0 | 13673 | 4.808E-06 | 1.635E-05 | 400 |
| | 70.0 | 30403 | 1.069E-05 | 3.635E-05 | 400 |
| | 74.0 | 32296 | 1.136E-05 | 3.861E-05 | 400 |
| | 78.0 | 17370 | 6.108E-06 | 2.077E-05 | 400 |
| | 82.0 | 8863 | 3.117E-06 | 1.060E-05 | 400 |
| | 86.0 | 9809 | 3.449E-06 | 1.173E-05 | 400 |
| | 90.0 | 6538 | 2.299E-06 | 7.817E-06 | 400 |
| | 94.0 | 20904 | 7.350E-06 | 2.499E-05 | 400 |
| | 98.0 | 24495 | 8.613E-06 | 2.928E-05 | 400 |
| | 102.0 | 9035 | 3.177E-06 | 1.080E-05 | 400 |
| | 106.0 | 281 | 9.901E-08 | 3.366E-07 | 400 |
| P | 110.0 | 27 | 9.647E-09 | 3.280E-08 | 400 |
| P | 114.0 | 18 | 6.601E-09 | 2.244E-08 | 400 |
| P | 118.0 | 7 | 2.539E-09 | 8.632E-09 | 400 |
| P | 122.0 | 2 | 1.016E-09 | 3.453E-09 | 400 |
| | 126.0 | 25 | 9.140E-09 | 3.107E-08 | 400 |
| | 130.0 | 5 | 2.031E-09 | 6.906E-09 | 400 |
| | 134.0 | 40 | 1.422E-08 | 4.834E-08 | 400 |
| | 138.0 | 11 | 4.062E-09 | 1.381E-08 | 400 |
| | 142.0 | 12 | 4.570E-09 | 1.554E-08 | 400 |
| | 146.0 | 5 | 2.031E-09 | 6.906E-09 | 400 |
| | 150.0 | 0 | 0. | 0. | 400 |
| | 154.0 | 1 | 5.078E-10 | 1.726E-09 | 400 |

CROSSWIND INTEGRATED= 1.835E-03 SEC/SQ.M 6.238E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 62.0 | 0 | 4.598E-10 | 1.931E-09 | 400 |
| | 66.0 | 2176 | 1.470E-06 | 6.173E-06 | 400 |
| | 70.0 | 1268 | 8.567E-07 | 3.598E-06 | 400 |
| | 74.0 | 1836 | 1.240E-06 | 5.209E-06 | 400 |
| | 78.0 | 2108 | 1.424E-06 | 5.980E-06 | 400 |
| | 82.0 | 3266 | 2.205E-06 | 9.263E-06 | 400 |
| | 86.0 | 3061 | 2.068E-06 | 8.684E-06 | 400 |
| | 90.0 | 14 | 9.502E-09 | 3.991E-08 | 400 |
| | 94.0 | 6 | 4.160E-09 | 1.747E-08 | 400 |
| | 98.0 | 2 | 1.752E-09 | 7.357E-09 | 400 |
| | 102.0 | 548 | 3.707E-07 | 1.557E-06 | 400 |
| | 106.0 | 5 | 3.795E-09 | 1.594E-08 | 400 |
| P | 110.0 | 6 | 4.598E-09 | 1.931E-08 | 400 |
| P | 114.0 | 2 | 1.679E-09 | 7.050E-09 | 400 |
| P | 118.0 | 1 | 8.758E-10 | 3.678E-09 | 400 |
| P | 122.0 | 21 | 1.452E-08 | 6.100E-08 | 400 |
| | 126.0 | 1 | 1.095E-09 | 4.598E-09 | 400 |
| | 130.0 | 3 | 2.189E-09 | 9.196E-09 | 400 |
| | 134.0 | 1 | 1.022E-09 | 4.291E-09 | 400 |
| | 138.0 | 1 | 7.298E-10 | 3.065E-09 | 400 |
| | 142.0 | 2 | 1.460E-09 | 6.131E-09 | 400 |

CROSSWIND INTEGRATED= 2.704E-04 SEC/SQ.M 1.136E-03 1/M

1202782

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 52.0 | 0 | 0. | 0. | 800 |
| 55.0 | 108 | 3.808E-08 | 1.295E-07 | 800 |
| 58.0 | 1390 | 4.890E-07 | 1.663E-06 | 800 |
| 61.0 | 10176 | 3.578E-06 | 1.217E-05 | 800 |
| 64.0 | 21726 | 7.639E-06 | 2.597E-05 | 800 |
| 67.0 | 30480 | 1.072E-05 | 3.644E-05 | 800 |
| 70.0 | 43146 | 1.517E-05 | 5.158E-05 | 800 |
| 73.0 | 56193 | 1.976E-05 | 6.718E-05 | 800 |
| 76.0 | 46084 | 1.620E-05 | 5.509E-05 | 800 |
| 79.0 | 23889 | 8.400E-06 | 2.856E-05 | 800 |
| 82.0 | 14609 | 5.137E-06 | 1.747E-05 | 800 |
| 85.0 | 5988 | 2.106E-06 | 7.159E-06 | 800 |
| 88.0 | 6033 | 2.121E-06 | 7.213E-06 | 800 |
| 91.0 | 21921 | 7.708E-06 | 2.621E-05 | 800 |
| 94.0 | 31919 | 1.122E-05 | 3.816E-05 | 800 |
| 97.0 | 30978 | 1.089E-05 | 3.703E-05 | 800 |
| 97.1 | 45594 | 1.603E-05 | 5.451E-05 | 806 |
| 99.1 | 21764 | 7.653E-06 | 2.602E-05 | 809 |
| 101.1 | 5998 | 2.109E-06 | 7.172E-06 | 813 |
| 103.0 | 2349 | 8.260E-07 | 2.808E-06 | 816 |
| 105.0 | 204 | 7.189E-08 | 2.444E-07 | 820 |
| 106.9 | 17 | 6.118E-09 | 2.080E-08 | 823 |
| 108.8 | 0 | 0. | 0. | 826 |

CROSSWIND INTEGRATED= 5.392E-03 SEC/SQ.M 1.833E-02 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 54.0 | 1 | 5.664E-10 | 1.926E-09 | 1200 |
| 56.0 | 81 | 2.860E-08 | 9.725E-08 | 1200 |
| 58.0 | 711 | 2.501E-07 | 8.502E-07 | 1200 |
| 60.0 | 1540 | 5.415E-07 | 1.841E-06 | 1200 |
| 62.0 | 5428 | 1.909E-06 | 6.490E-06 | 1200 |
| 64.0 | 17862 | 6.281E-06 | 2.135E-05 | 1200 |
| 66.0 | 32186 | 1.132E-05 | 3.848E-05 | 1200 |
| 68.0 | 30093 | 1.058E-05 | 3.598E-05 | 1200 |
| 70.0 | 29591 | 1.041E-05 | 3.539E-05 | 1200 |
| 72.0 | 32334 | 1.137E-05 | 3.866E-05 | 1200 |
| 74.0 | 40597 | 1.427E-05 | 4.853E-05 | 1200 |
| 76.0 | 41734 | 1.467E-05 | 4.989E-05 | 1200 |
| 78.0 | 44079 | 1.550E-05 | 5.270E-05 | 1200 |
| 80.0 | 38587 | 1.357E-05 | 4.613E-05 | 1200 |
| 82.0 | 21772 | 7.655E-06 | 2.603E-05 | 1200 |
| 84.0 | 12234 | 4.302E-06 | 1.463E-05 | 1200 |
| 86.0 | 7102 | 2.497E-06 | 8.491E-06 | 1200 |
| 88.0 | 6816 | 2.397E-06 | 8.149E-06 | 1200 |
| 90.0 | 13377 | 4.704E-06 | 1.599E-05 | 1200 |
| 92.0 | 14212 | 4.997E-06 | 1.699E-05 | 1200 |
| 4 94.0 | 13477 | 4.739E-06 | 1.611E-05 | 1200 |
| 6 96.0 | 11815 | 4.154E-06 | 1.412E-05 | 1200 |
| 4 98.0 | 8217 | 2.889E-06 | 9.824E-06 | 1200 |
| 6 100.0 | 1719 | 6.046E-07 | 2.056E-06 | 1200 |
| 4 102.0 | 826 | 2.906E-07 | 9.879E-07 | 1200 |
| 0 104.0 | 3 | 1.133E-09 | 3.852E-09 | 1200 |
| 4 106.0 | 0 | 2.832E-10 | 9.629E-10 | 1200 |
| C 108.0 | 13 | 4.815E-09 | 1.637E-08 | 1200 |
| M 110.0 | 10 | 3.682E-09 | 1.252E-08 | 1200 |
| 112.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 6.281E-03 SEC/SQ.M 2.135E-02 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 61.0 | 1 | 1.153E-09 | 4.643E-09 | 800 |
| 64.0 | 203 | 1.372E-07 | 5.762E-07 | 800 |
| 67.0 | 2041 | 1.379E-06 | 5.790E-06 | 800 |
| 70.0 | 4288 | 2.896E-06 | 1.216E-05 | 800 |
| 73.0 | 7203 | 4.864E-06 | 2.043E-05 | 800 |
| T 76.0 | 7094 | 4.791E-06 | 2.012E-05 | 800 |
| 2 79.0 | 8841 | 5.970E-06 | 2.507E-05 | 800 |
| 82.0 | 12771 | 8.624E-06 | 3.622E-05 | 800 |
| 85.0 | 6876 | 4.643E-06 | 1.950E-05 | 800 |
| 88.0 | 2995 | 2.022E-06 | 8.494E-06 | 800 |
| S 91.0 | 7 | 5.080E-09 | 2.133E-08 | 800 |
| S 94.0 | 26 | 1.765E-08 | 7.412E-08 | 800 |
| 97.0 | 441 | 2.981E-07 | 1.252E-06 | 800 |
| S 97.1 | 669 | 4.520E-07 | 1.898E-06 | 806 |
| S 99.1 | 579 | 3.911E-07 | 1.642E-06 | 809 |
| 101.1 | 782 | 5.262E-07 | 2.216E-06 | 813 |
| 103.0 | 182 | 1.231E-07 | 5.170E-07 | 816 |
| 105.0 | 1281 | 8.656E-07 | 3.635E-06 | 820 |
| 106.9 | 40 | 2.757E-08 | 1.158E-07 | 823 |
| 108.8 | 164 | 1.110E-07 | 4.662E-07 | 826 |
| 110.7 | 0 | 0. | 0. | 829 |

CROSSWIND INTEGRATED= 1.551E-03 SEC/SQ.M 6.514E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 1 | 8.955E-10 | 3.761E-09 | 1200 |
| 64.0 | 130 | 8.809E-08 | 3.700E-07 | 1200 |
| 66.0 | 465 | 3.146E-07 | 1.321E-06 | 1200 |
| 68.0 | 1630 | 1.101E-06 | 4.624E-06 | 1200 |
| 70.0 | 3163 | 2.136E-06 | 8.972E-06 | 1200 |
| 72.0 | 3650 | 2.465E-06 | 1.035E-05 | 1200 |
| 74.0 | 4503 | 3.041E-06 | 1.277E-05 | 1200 |
| 76.0 | 6573 | 4.439E-06 | 1.864E-05 | 1200 |
| 78.0 | 7669 | 5.179E-06 | 2.175E-05 | 1200 |
| 80.0 | 10774 | 7.275E-06 | 3.056E-05 | 1200 |
| 82.0 | 9678 | 6.535E-06 | 2.745E-05 | 1200 |
| 84.0 | 11688 | 7.892E-06 | 3.315E-05 | 1200 |
| 86.0 | 6938 | 4.685E-06 | 1.968E-05 | 1200 |
| 2 88.0 | 3289 | 2.221E-06 | 9.326E-06 | 1200 |
| 3 90.0 | 1744 | 1.178E-06 | 4.948E-06 | 1200 |
| 4 92.0 | 1326 | 8.959E-07 | 3.763E-06 | 1200 |
| 4 94.0 | 214 | 1.445E-07 | 6.069E-07 | 1200 |
| 6 96.0 | 1364 | 9.215E-07 | 3.871E-06 | 1200 |
| 4 98.0 | 1782 | 1.204E-06 | 5.055E-06 | 1200 |
| 6 100.0 | 1744 | 1.178E-06 | 4.948E-06 | 1200 |
| 4 102.0 | 478 | 3.232E-07 | 1.357E-06 | 1200 |
| 0 104.0 | 478 | 3.232E-07 | 1.357E-06 | 1200 |
| 4 106.0 | 7 | 5.048E-09 | 2.120E-08 | 1200 |
| 0 108.0 | 4 | 2.849E-09 | 1.197E-08 | 1200 |
| L 110.0 | 0 | 0. | 0. | 1200 |
| 0 112.0 | 3 | 2.239E-09 | 9.403E-09 | 1200 |
| 4 114.0 | 7 | 5.292E-09 | 2.223E-08 | 1200 |
| 0 116.0 | 6 | 4.559E-09 | 1.915E-08 | 1200 |
| 118.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.244E-03 SEC/SQ.M 9.423E-03 1/M

1202783



U71

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 56.0 | 0 | 0. | 0. | 1600 |
| 58.0 | 28 | 9.912E-09 | 3.370E-08 | 1600 |
| 60.0 | 325 | 1.144E-07 | 3.890E-07 | 1600 |
| 62.0 | 1387 | 4.880E-07 | 1.659E-06 | 1600 |
| 64.0 | 5715 | 2.010E-06 | 6.833E-06 | 1600 |
| 66.0 | 12007 | 4.222E-06 | 1.435E-05 | 1600 |
| 68.0 | 18590 | 6.537E-06 | 2.222E-05 | 1600 |
| 70.0 | 16849 | 5.924E-06 | 2.014E-05 | 1600 |
| 72.0 | 14325 | 5.037E-06 | 1.713E-05 | 1600 |
| 74.0 | 13043 | 4.586E-06 | 1.559E-05 | 1600 |
| 76.0 | 33845 | 1.190E-05 | 4.046E-05 | 1600 |
| 78.0 | 37677 | 1.325E-05 | 4.504E-05 | 1600 |
| 80.0 | 23828 | 8.379E-06 | 2.849E-05 | 1600 |
| 82.0 | 16781 | 5.901E-06 | 2.006E-05 | 1600 |
| 84.0 | 14254 | 5.012E-06 | 1.704E-05 | 1600 |
| 86.0 | 10755 | 3.782E-06 | 1.286E-05 | 1600 |
| 88.0 | 4603 | 1.619E-06 | 5.504E-06 | 1600 |
| 90.0 | 5889 | 2.071E-06 | 7.041E-06 | 1600 |
| 92.0 | 17186 | 6.043E-06 | 2.055E-05 | 1600 |
| 93.6 | 26815 | 9.429E-06 | 3.206E-05 | 1603 |
| 94.0 | 17354 | 6.102E-06 | 2.075E-05 | 1600 |
| 94.6 | 25348 | 8.913E-06 | 3.030E-05 | 1604 |
| 95.6 | 16650 | 5.855E-06 | 1.991E-05 | 1606 |
| 96.6 | 13098 | 4.606E-06 | 1.566E-05 | 1608 |
| 97.6 | 10131 | 3.562E-06 | 1.211E-05 | 1610 |
| 7 98.6 | 3260 | 1.147E-06 | 3.899E-06 | 1611 |
| 99.6 | 4751 | 1.671E-06 | 5.681E-06 | 1613 |
| 100.6 | 2339 | 8.222E-07 | 2.795E-06 | 1615 |
| 101.6 | 1256 | 4.417E-07 | 1.502E-06 | 1617 |
| Q 102.6 | 643 | 2.262E-07 | 7.689E-07 | 1618 |
| Q 103.6 | 270 | 9.511E-08 | 3.234E-07 | 1620 |
| 104.5 | 63 | 2.219E-08 | 7.546E-08 | 1622 |
| 105.5 | 33 | 1.162E-08 | 3.952E-08 | 1623 |
| 106.5 | 78 | 2.748E-08 | 9.342E-08 | 1625 |
| 107.5 | 0 | 0. | 0. | 1627 |

CROSSWIND INTEGRATED= 5.886E-03 SEC/SQ.M 2.001E-02 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 56.0 | 0 | 0. | 0. | 2200 |
| X 60.0 | 0 | 0. | 0. | 2200 |
| 62.0 | 170 | 5.987E-08 | 2.036E-07 | 2200 |
| 64.0 | 376 | 1.324E-07 | 4.501E-07 | 2200 |
| 66.0 | 1253 | 4.406E-07 | 1.496E-06 | 2200 |
| 68.0 | 1209 | 4.254E-07 | 1.446E-06 | 2200 |
| 70.0 | 7026 | 2.471E-06 | 8.400E-06 | 2200 |
| E 72.0 | 4712 | 1.657E-06 | 5.634E-06 | 2200 |
| 74.0 | 2163 | 7.607E-07 | 2.586E-06 | 2200 |
| 76.0 | 4214 | 1.482E-06 | 5.036E-06 | 2200 |
| E 78.0 | 3440 | 1.210E-06 | 4.113E-06 | 2200 |
| 80.0 | 2434 | 8.562E-07 | 2.911E-06 | 2200 |
| 82.0 | 4115 | 1.447E-06 | 4.920E-06 | 2200 |
| S 84.0 | 1112 | 3.912E-07 | 1.330E-06 | 2200 |
| S 86.0 | 1465 | 5.155E-07 | 1.753E-06 | 2200 |
| 88.0 | 2556 | 8.990E-07 | 3.056E-06 | 2200 |
| 90.0 | 3513 | 1.235E-06 | 4.200E-06 | 2200 |
| 92.0 | 1669 | 5.870E-07 | 1.996E-06 | 2200 |
| 94.0 | 13150 | 4.624E-06 | 1.572E-05 | 2200 |
| 9 96.0 | 802 | 2.823E-07 | 9.598E-07 | 2200 |
| Q 98.0 | 253 | 8.900E-08 | 3.026E-07 | 2200 |
| 100.0 | 987 | 3.472E-07 | 1.180E-06 | 2200 |
| S 102.0 | 66 | 2.324E-08 | 7.903E-08 | 2200 |
| S 104.0 | 12 | 4.413E-09 | 1.500E-08 | 2200 |
| 6 106.0 | 0 | 1.471E-10 | 5.002E-10 | 2200 |

CROSSWIND INTEGRATED= 1.531E-03 SEC/SQ.M 5.206E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 0 | 2.442E-10 | 1.026E-09 | 1600 |
| 64.0 | 14 | 1.010E-08 | 4.240E-08 | 1600 |
| 66.0 | 67 | 4.527E-08 | 1.901E-07 | 1600 |
| 68.0 | 555 | 3.752E-07 | 1.576E-06 | 1600 |
| 70.0 | 872 | 5.889E-07 | 2.474E-06 | 1600 |
| 72.0 | 1859 | 1.256E-06 | 5.274E-06 | 1600 |
| 74.0 | 1935 | 1.307E-06 | 5.489E-06 | 1600 |
| 76.0 | 6392 | 4.316E-06 | 1.813E-05 | 1600 |
| 78.0 | 8584 | 5.796E-06 | 2.434E-05 | 1600 |
| 80.0 | 5113 | 3.453E-06 | 1.450E-05 | 1600 |
| 82.0 | 3773 | 2.548E-06 | 1.070E-05 | 1600 |
| 84.0 | 8584 | 5.796E-06 | 2.434E-05 | 1600 |
| 86.0 | 8949 | 6.043E-06 | 2.538E-05 | 1600 |
| 88.0 | 4139 | 2.795E-06 | 1.174E-05 | 1600 |
| 90.0 | 4049 | 2.735E-06 | 1.149E-05 | 1600 |
| 92.0 | 2011 | 1.358E-06 | 5.705E-06 | 1600 |
| 93.6 | 3764 | 2.542E-06 | 1.068E-05 | 1603 |
| 94.0 | 1100 | 7.428E-07 | 3.120E-06 | 1600 |
| 94.6 | 2524 | 1.705E-06 | 7.160E-06 | 1604 |
| 95.6 | 1532 | 1.035E-06 | 4.346E-06 | 1606 |
| 96.6 | 2574 | 1.738E-06 | 7.300E-06 | 1608 |
| 97.6 | 3318 | 2.241E-06 | 9.410E-06 | 1610 |
| 7 98.6 | 2921 | 1.973E-06 | 8.285E-06 | 1611 |
| 99.6 | 3814 | 2.575E-06 | 1.082E-05 | 1613 |
| 100.6 | 1978 | 1.336E-06 | 5.612E-06 | 1615 |
| 101.6 | 2772 | 1.872E-06 | 7.863E-06 | 1617 |
| Z 102.6 | 476 | 3.219E-07 | 1.352E-06 | 1618 |
| Z 103.6 | 554 | 3.745E-07 | 1.573E-06 | 1620 |
| 104.5 | 58 | 3.955E-08 | 1.661E-07 | 1622 |
| 105.5 | 9 | 6.539E-09 | 2.746E-08 | 1623 |
| 106.5 | 1034 | 6.983E-07 | 2.933E-06 | 1625 |
| 107.5 | 0 | 0. | 0. | 1627 |
| 108.5 | 7 | 4.944E-09 | 2.077E-08 | 1628 |
| 109.5 | 0 | 0. | 0. | 1630 |
| 110.4 | 3 | 2.233E-09 | 9.378E-09 | 1632 |

CROSSWIND INTEGRATED= 2.658E-03 SEC/SQ.M 1.116E-02 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 1 | 1.264E-09 | 5.328E-09 | 2200 |
| 64.0 | 1 | 1.275E-09 | 5.355E-09 | 2200 |
| 66.0 | 1 | 1.009E-09 | 4.236E-09 | 2200 |
| 68.0 | 16 | 1.091E-08 | 4.552E-08 | 2200 |
| 70.0 | 222 | 1.503E-07 | 6.314E-07 | 2200 |
| F 72.0 | 360 | 2.436E-07 | 1.023E-06 | 2200 |
| 74.0 | 452 | 3.057E-07 | 1.284E-06 | 2200 |
| 76.0 | 1064 | 7.187E-07 | 3.018E-06 | 2200 |
| E 78.0 | 1445 | 9.762E-07 | 4.100E-06 | 2200 |
| 80.0 | 1548 | 1.046E-06 | 4.392E-06 | 2200 |
| 82.0 | 2339 | 1.580E-06 | 6.635E-06 | 2200 |
| S 84.0 | 3414 | 2.306E-06 | 9.684E-06 | 2200 |
| S 86.0 | 1163 | 7.853E-07 | 3.298E-06 | 2200 |
| 88.0 | 2037 | 1.376E-06 | 5.779E-06 | 2200 |
| 90.0 | 3130 | 2.114E-06 | 8.877E-06 | 2200 |
| 92.0 | 525 | 3.546E-07 | 1.489E-06 | 2200 |
| 94.0 | 1580 | 1.067E-06 | 4.482E-06 | 2200 |
| 9 96.0 | 275 | 1.859E-07 | 7.806E-07 | 2200 |
| Q 98.0 | 472 | 3.191E-07 | 1.340E-06 | 2200 |
| 100.0 | 867 | 5.855E-07 | 2.459E-06 | 2200 |
| T 102.0 | 275 | 1.859E-07 | 7.806E-07 | 2200 |
| T 104.0 | 176 | 1.193E-07 | 5.009E-07 | 2200 |
| 6 106.0 | 347 | 2.347E-07 | 9.857E-07 | 2200 |
| 108.0 | 48 | 3.298E-08 | 1.385E-07 | 2200 |
| Q 110.0 | 23 | 1.586E-08 | 6.660E-08 | 2200 |
| 5 112.0 | 2 | 1.396E-09 | 5.861E-09 | 2200 |
| 4 114.0 | 1 | 1.142E-09 | 4.795E-09 | 2200 |
| 5 116.0 | 1 | 6.978E-10 | 2.931E-09 | 2200 |

CROSSWIND INTEGRATED= 1.130E-03 SEC/SQ.M 4.747E-03 1/M

1202784



U7

TEST U71 AUGUST 6, 1968 0343 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 60.0 | 0 | 0. | 0. | 3200 |
| | 62.0 | 3 | 1.324E-09 | 4.501E-09 | 3200 |
| | 64.0 | 12 | 4.413E-09 | 1.500E-08 | 3200 |
| | 66.0 | 127 | 4.472E-08 | 1.520E-07 | 3200 |
| | 68.0 | 650 | 2.286E-07 | 7.772E-07 | 3200 |
| | 70.0 | 964 | 3.392E-07 | 1.153E-06 | 3200 |
| | 72.7 | 9500 | 3.341E-06 | 1.136E-05 | 3168 |
| | 73.7 | 9379 | 3.298E-06 | 1.121E-05 | 3170 |
| | 74.7 | 8665 | 3.047E-06 | 1.036E-05 | 3172 |
| | 75.7 | 13521 | 4.754E-06 | 1.616E-05 | 3173 |
| | 76.8 | 12787 | 4.496E-06 | 1.529E-05 | 3175 |
| | 77.8 | 8025 | 2.822E-06 | 9.594E-06 | 3177 |
| C | 78.8 | 18884 | 6.640E-06 | 2.258E-05 | 3179 |
| C | 79.8 | 15924 | 5.599E-06 | 1.904E-05 | 3180 |
| C | 80.8 | 22132 | 7.782E-06 | 2.646E-05 | 3182 |
| | 81.8 | 21593 | 7.593E-06 | 2.581E-05 | 3184 |
| | 82.8 | 20244 | 7.118E-06 | 2.420E-05 | 3185 |
| | 83.8 | 14173 | 4.984E-06 | 1.694E-05 | 3187 |
| | 84.8 | 18796 | 6.609E-06 | 2.247E-05 | 3189 |
| | 85.8 | 14769 | 5.193E-06 | 1.766E-05 | 3191 |
| | 86.8 | 7302 | 2.568E-06 | 8.731E-06 | 3192 |
| | 87.8 | 12661 | 4.452E-06 | 1.514E-05 | 3194 |
| | 88.8 | 10157 | 3.571E-06 | 1.214E-05 | 3196 |
| | 89.8 | 5697 | 2.003E-06 | 6.811E-06 | 3198 |
| | 90.8 | 11832 | 4.161E-06 | 1.415E-05 | 3199 |
| | 91.8 | 10895 | 3.831E-06 | 1.303E-05 | 3201 |
| | 92.8 | 5558 | 1.955E-06 | 6.646E-06 | 3203 |
| | 93.8 | 12373 | 4.351E-06 | 1.479E-05 | 3205 |
| | 94.8 | 12570 | 4.420E-06 | 1.503E-05 | 3206 |
| | 95.8 | 6081 | 2.138E-06 | 7.270E-06 | 3208 |
| | 96.8 | 11077 | 3.895E-06 | 1.324E-05 | 3210 |
| | 97.8 | 10887 | 3.828E-06 | 1.302E-05 | 3212 |
| | 98.8 | 4051 | 1.42[illegible]E-06 | 4.844E-06 | 3213 |
| | 99.8 | 7207 | 2.534E-06 | 8.616E-06 | 3215 |
| | 100.8 | 4412 | 1.552E-06 | 5.276E-06 | 3217 |
| | 101.8 | 2193 | 7.713E-07 | 2.622E-06 | 3218 |
| | 102.8 | 2309 | 8.119E-07 | 2.761E-06 | 3220 |
| | 103.8 | 1415 | 4.978E-07 | 1.693E-06 | 3222 |
| | 104.8 | 343 | 1.209E-07 | 4.112E-07 | 3224 |
| | 105.8 | 219 | 7.728E-08 | 2.629E-07 | 3225 |
| | 106.8 | 94 | 3.312E-08 | 1.126E-07 | 3227 |
| | 107.8 | 12 | 4.516E-09 | 1.536E-08 | 3229 |
| W | 108.8 | 75 | 2.660E-08 | 9.043E-08 | 3230 |
| W | 109.7 | 11 | 4.015E-09 | 1.365E-08 | 3232 |
| W | 110.7 | 0 | 0. | 0. | 3233 |

CROSSWIND INTEGRATED= 7.069E-03 SEC/SQ.M 2.403E-02 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 4[illegible].0 | 7 | 5.201E-09 | 2.185E-08 | 3200 |
| | 7[illegible].7 | 146 | 9.867E-08 | 4.144E-07 | 3168 |
| | 73.7 | 262 | 1.773E-07 | 7.446E-07 | 3170 |
| | 74.7 | 242 | 1.636E-07 | 6.871E-07 | 3172 |
| | 75.7 | 636 | 4.297E-07 | 1.805E-06 | 3173 |
| | 76.8 | 527 | 3.560E-07 | 1.495E-06 | 3175 |
| | 77.8 | 646 | 4.362E-07 | 1.832E-06 | 3177 |
| | 78.8 | 1520 | 1.027E-06 | 4.313E-06 | 3179 |
| P | 79.8 | 1947 | 1.315E-06 | 5.522E-06 | 3180 |
| | 80.8 | 3898 | 2.633E-06 | 1.106E-05 | 3182 |
| | 81.8 | 5828 | 3.935E-06 | 1.653E-05 | 3184 |
| | 82.8 | 6276 | 4.238E-06 | 1.780E-05 | 3185 |
| | 83.8 | 4840 | 3.269E-06 | 1.373E-05 | 3187 |
| | 84.8 | 6276 | 4.238E-06 | 1.780E-05 | 3189 |
| | 85.8 | 6276 | 4.238E-06 | 1.780E-05 | 3191 |
| | 86.8 | 3629 | 2.451E-06 | 1.029E-05 | 3192 |
| | 87.8 | 7398 | 4.995E-06 | 2.098E-05 | 3194 |
| | 88.8 | 5312 | 3.587E-06 | 1.506E-05 | 3196 |
| | 89.8 | 4639 | 3.132E-06 | 1.316E-05 | 3198 |
| | 90.8 | 6052 | 4.087E-06 | 1.716E-05 | 3199 |
| | 91.8 | 5603 | 3.784E-06 | 1.589E-05 | 3201 |
| | 92.8 | 2418 | 1.633E-06 | 6.858E-06 | 3203 |
| | 93.8 | 2552 | 1.724E-06 | 7.240E-06 | 3205 |
| | 94.8 | 2081 | 1.406E-06 | 5.904E-06 | 3206 |
| | 95.8 | 1274 | 8.604E-07 | 3.613E-06 | 3208 |
| | 96.8 | 1498 | 1.012E-06 | 4.250E-06 | 3210 |
| | 97.8 | 1947 | 1.315E-06 | 5.522E-06 | 3212 |
| | 98.8 | 1206 | 8.149E-07 | 3.423E-06 | 3213 |
| | 99.8 | 1386 | 9.361E-07 | 3.932E-06 | 3215 |
| | 100.8 | 2014 | 1.360E-06 | 5.713E-06 | 3217 |
| | 101.8 | 1251 | 8.452E-07 | 3.550E-06 | 3218 |
| | 102.8 | 1004 | 6.706E-07 | 2.650E-06 | 3220 |
| | 103.8 | 1812 | 1.224E-06 | 5.140E-06 | 3222 |
| | 104.8 | 1206 | 8.149E-07 | 3.423E-06 | 3224 |
| | 105.8 | 946 | 6.369E-07 | 2.683E-06 | 3225 |
| | 106.8 | 956 | 6.461E-07 | 2.714E-06 | 3227 |
| | 107.8 | 636 | 4.297E-07 | 1.805E-06 | 3229 |
| | 108.8 | 636 | 4.297E-07 | 1.805E-06 | 3230 |
| | 109.7 | 305 | 2.061E-07 | 8.658E-07 | 3232 |
| W | 110.7 | 326 | 2.206E-07 | 9.264E-07 | 3233 |
| | 111.7 | 91 | 6.189E-08 | 2.599E-07 | 3235 |
| | 112.7 | 43 | 2.943E-08 | 1.236E-07 | 3237 |
| | 113.7 | 11 | 8.006E-09 | 3.363E-08 | 3238 |
| | 114.6 | 3 | 2.164E-09 | 9.088E-09 | 3240 |

CROSSWIND INTEGRATED= 3.682E-03 SEC/SQ.M 1.546E-02 1/M

1202705



U71

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
500UM ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 6723 | 2.364E-06 | 8.030E-06 | 4630 |
| | 84.0 | 2389 | 8.403E-07 | 2.857E-06 | 4620 |
| S | 86.0 | 3692 | 1.298E-06 | 4.414E-06 | 4610 |
| S | 88.0 | 2212 | 7.779E-07 | 2.645E-06 | 4610 |
| | 90.0 | 2403 | 8.451E-07 | 2.873E-06 | 4610 |
| | 92.0 | 713 | 2.510E-07 | 8.533E-07 | 4620 |
| S | 94.0 | 1825 | 6.418E-07 | 2.182E-06 | 4620 |
| S | 96.0 | 1778 | 6.253E-07 | 2.126E-06 | 4620 |
| S | 98.0 | 2086 | 7.338E-07 | 2.495E-06 | 4560 |
| | 100.0 | 2391 | 8.409E-07 | 2.859E-06 | 4690 |
| | 102.0 | 1912 | 6.724E-07 | 2.286E-06 | 4710 |
| | 104.0 | 809 | 2.846E-07 | 9.678E-07 | 4770 |
| | 106.0 | 746 | 2.626E-07 | 8.928E-07 | 4810 |
| | 108.0 | 347 | 1.222E-07 | 4.156E-07 | 4870 |
| E | 110.0 | 45 | 1.603E-08 | 5.452E-08 | 4920 |
| | 112.0 | 9 | 3.383E-09 | 1.150E-08 | 4990 |
| | 114.0 | 1 | 5.864E-10 | 2.001E-09 | 5080 |
| | 116.0 | 0 | 0. | 0. | 5020 |

CROSSWIND INTEGRATED= 1.715E-03 SEC/SQ.M 5.834E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
500UM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 708 | 4.787E-07 | 2.010E-06 | 4630 |
| | 84.0 | 945 | 6.385E-07 | 2.682E-06 | 4620 |
| S | 86.0 | 1221 | 8.250E-07 | 3.465E-06 | 4610 |
| S | 88.0 | 1478 | 9.982E-07 | 4.192E-06 | 4610 |
| | 90.0 | 1642 | 1.109E-06 | 4.659E-06 | 4610 |
| | 92.0 | 1063 | 7.184E-07 | 3.017E-06 | 4620 |
| S | 94.0 | 551 | 3.721E-07 | 1.563E-06 | 4620 |
| S | 96.0 | 669 | 4.520E-07 | 1.898E-06 | 4620 |
| S | 98.0 | 301 | 2.034E-07 | 8.541E-07 | 4660 |
| | 100.0 | 511 | 3.455E-07 | 1.451E-06 | 4690 |
| | 102.0 | 393 | 2.655E-07 | 1.115E-06 | 4710 |
| | 104.0 | 406 | 2.744E-07 | 1.153E-06 | 4770 |
| | 106.0 | 511 | 3.455E-07 | 1.451E-06 | 4810 |
| | 108.0 | 5 | 3.439E-09 | 1.465E-08 | 4870 |
| E | 110.0 | 23 | 1.560E-08 | 6.554E-08 | 4920 |
| | 112.0 | 155 | 1.048E-07 | 4.403E-07 | 4990 |
| | 114.0 | 0 | 1.692E-10 | 7.104E-10 | 5080 |
| P | 116.0 | 2 | 1.776E-09 | 7.460E-09 | 5020 |
| | 118.0 | 1 | 7.612E-10 | 3.197E-09 | 5100 |
| P | 120.0 | 2 | 1.459E-09 | 6.128E-09 | 5130 |

CROSSWIND INTEGRATED= 1.160E-03 SEC/SQ.M 4.873E-03 1/M

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
700UM ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 76.0 | 612 | 2.154E-07 | 7.322E-07 | 6280 |
| S | 78.0 | 791 | 2.782E-07 | 9.459E-07 | 6300 |
| S | 80.0 | 1170 | 4.116E-07 | 1.399E-06 | 6400 |
| S | 82.0 | 1495 | 5.260E-07 | 1.788E-06 | 6470 |
| E | 84.0 | 1084 | 3.822E-07 | 1.299E-06 | 6500 |
| S | 86.0 | 707 | 2.498E-07 | 8.496E-07 | 6500 |
| S | 88.0 | 1085 | 3.816E-07 | 1.297E-06 | 6480 |
| S | 90.0 | 1170 | 4.144E-07 | 1.409E-06 | 6500 |
| | 92.0 | 1470 | 5.171E-07 | 1.758E-06 | 6490 |
| S | 94.0 | 1091 | 3.839E-07 | 1.305E-06 | 6500 |
| S | 96.0 | 1590 | 5.591E-07 | 2.021E-06 | 6510 |
| E | 98.0 | 1990 | 6.998E-07 | 2.379E-06 | 6520 |
| S | 100.0 | 2519 | 8.859E-07 | 3.012E-06 | 6500 |
| S | 102.0 | 3116 | 1.096E-06 | 3.726E-06 | 6610 |
| S | 104.0 | 2553 | 8.979E-07 | 3.053E-06 | 6650 |
| S | 106.0 | 1655 | 5.820E-07 | 1.979E-06 | 6720 |
| S | 108.0 | 686 | 2.414E-07 | 8.206E-07 | 6800 |
| S | 110.0 | 0 | 1.471E-10 | 5.002E-10 | 7000 |

CROSSWIND INTEGRATED= 1.999E-03 SEC/SQ.M 6.796E-03 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
700UM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E | 76.0 | 95 | 6.464E-08 | 2.715E-07 | 6280 |
| S | 78.0 | 189 | 1.281E-07 | 5.382E-07 | 6300 |
| S | 80.0 | 248 | 1.681E-07 | 7.060E-07 | 6400 |
| S | 82.0 | 426 | 2.889E-07 | 1.210E-06 | 6490 |
| S | 84.0 | 465 | 3.146E-07 | 1.321E-06 | 6500 |
| S | 86.0 | 492 | 3.324E-07 | 1.396E-06 | 6500 |
| S | 88.0 | 531 | 3.590E-07 | 1.506E-06 | 6480 |
| S | 90.0 | 669 | 4.523E-07 | 1.900E-06 | 6500 |
| S | 92.0 | 590 | 3.990E-07 | 1.676E-06 | 6490 |
| S | 94.0 | 459 | 3.102E-07 | 1.303E-06 | 6500 |
| S | 96.0 | 446 | 3.013E-07 | 1.265E-06 | 6510 |
| E | 98.0 | 327 | 2.214E-07 | 9.296E-07 | 6520 |
| S | 100.0 | 235 | 1.592E-07 | 6.687E-07 | 6500 |
| S | 102.0 | 354 | 2.391E-07 | 1.004E-06 | 6610 |
| S | 104.0 | 367 | 2.480E-07 | 1.042E-06 | 6650 |
| S | 106.0 | 393 | 2.658E-07 | 1.116E-06 | 6720 |
| S | 108.0 | 406 | 2.747E-07 | 1.154E-06 | 6800 |
| S | 110.0 | 3 | 2.030E-09 | 8.525E-09 | 7000 |
| S | 112.0 | 17 | 1.205E-08 | 5.062E-08 | 7300 |
| S | 114.0 | 1 | 8.246E-10 | 3.463E-09 | 7210 |
| | 116.0 | 1 | 1.332E-09 | 5.595E-09 | 7220 |
| | 118.0 | 3 | 2.030E-09 | 8.525E-09 | 7190 |

CROSSWIND INTEGRATED= 1.037E-03 SEC/SQ.M 4.354E-03 1/M

1202786



U71

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 3.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 8 91.0 | 81 | 2.859E-08 | 9.753E-08 | 12800 |
| 7 92.0 | 8 | 2.942E-09 | 1.000E-08 | 12800 |
| 5 93.0 | 14 | 5.002E-09 | 1.701E-08 | 12800 |
| 5 94.0 | 115 | 4.075E-08 | 1.385E-07 | 12800 |
| 5 95.0 | 7 | 2.648E-09 | 9.003E-09 | 12800 |
| 6 96.0 | 4 | 1.471E-09 | 5.002E-09 | 12800 |
| 5 97.0 | 0 | 0. | 0. | 12800 |
| 5 98.0 | 9 | 3.236E-09 | 1.100E-08 | 12800 |
| 99.0 | 17 | 6.326E-09 | 2.151E-08 | 12800 |
| C 100.0 | 11 | 4.119E-09 | 1.400E-08 | 12800 |
| 4 101.0 | 0 | 1.471E-10 | 5.002E-10 | 12800 |

CROSSWIND INTEGRATED= 2.130E-05 SEC/SQ.M 7.241E-05 1/M

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 8 91.0 | 99 | 6.724E-08 | 2.824E-07 | 12800 |
| 7 92.0 | 52 | 3.552E-08 | 1.492E-07 | 12800 |
| 5 93.0 | 41 | 2.791E-08 | 1.172E-07 | 12800 |
| W 94.0 | 74 | 5.032E-08 | 2.114E-07 | 12800 |
| 5 95.0 | 29 | 1.966E-08 | 8.259E-08 | 12800 |
| 6 96.0 | 25 | 1.713E-08 | 7.193E-08 | 12800 |
| 5 97.0 | 7 | 4.863E-09 | 2.043E-08 | 12800 |
| 5 98.0 | 14 | 9.515E-09 | 3.996E-08 | 12800 |
| 4 99.0 | 5 | 4.017E-09 | 1.687E-08 | 12800 |
| X 100.0 | 2 | 1.522E-09 | 6.394E-09 | 12800 |
| 4 101.0 | 0 | 5.075E-10 | 2.131E-09 | 12800 |
| 5 102.0 | 3 | 2.157E-09 | 9.058E-09 | 12800 |
| 6 103.0 | 2 | 1.586E-09 | 6.660E-09 | 12800 |
| 5 104.0 | 3 | 2.537E-09 | 1.066E-08 | 12800 |
| 0 105.0 | 1 | 1.269E-09 | 5.328E-09 | 12800 |
| 4 106.0 | 0 | 3.172E-10 | 1.332E-09 | 12800 |

CROSSWIND INTEGRATED= 5.497E-05 SEC/SQ.M 2.309E-04 1/M

1202787



U71

SAMPLING 400M TO 7000M: NO TOWER SAMPLING. ZNS DISPERSAL FOR 30 MIN: FLUORESCEIN DISPERSED ONLY LAST 20 MIN.
DISTRIBUTIONS ARE BIMODAL OR MULTIMODAL.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 74.0 | 1 | 0. | 0. | 400 |
| 78.0 | 9 | 3.069E-09 | 1.350E-08 | 400 |
| 82.0 | 86 | 2.806E-08 | 1.235E-07 | 400 |
| 86.0 | 1565 | 4.989E-07 | 2.195E-06 | 400 |
| 90.0 | 2465 | 7.861E-07 | 3.459E-06 | 400 |
| 94.0 | 1336 | 4.261E-07 | 1.875E-06 | 400 |
| 98.0 | 4451 | 1.419E-06 | 6.244E-06 | 400 |
| 102.0 | 4673 | 1.490E-06 | 6.555E-06 | 400 |
| 106.0 | 8591 | 2.739E-06 | 1.205E-05 | 400 |
| 110.0 | 13445 | 4.286E-06 | 1.886E-05 | 400 |
| 4 114.0 | 16731 | 5.334E-06 | 2.347E-05 | 400 |
| 118.0 | 32107 | 1.024E-05 | 4.504E-05 | 400 |
| 122.0 | 41286 | 1.316E-05 | 5.791E-05 | 400 |
| 126.0 | 22020 | 7.019E-06 | 3.089E-05 | 400 |
| 130.0 | 4135 | 1.318E-06 | 5.801E-06 | 400 |
| 134.0 | 23 | 7.453E-09 | 3.279E-08 | 400 |
| 138.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.361E-03 SEC/SQ.M 5.990E-03 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 0. | 0. | 400 |
| 90.0 | 16 | 7.662E-09 | 4.597E-08 | 400 |
| 94.0 | 0 | 1.505E-10 | 9.032E-10 | 400 |
| 98.0 | 6 | 2.996E-09 | 1.797E-08 | 400 |
| 102.0 | 6 | 3.146E-09 | 1.888E-08 | 400 |
| 106.0 | 15 | 7.211E-09 | 4.326E-08 | 400 |
| 110.0 | 5 | 2.394E-09 | 1.436E-08 | 400 |
| 4 114.0 | 2926 | 1.359E-06 | 8.152E-06 | 400 |
| 118.0 | 7 | 3.553E-09 | 2.132E-08 | 400 |
| 122.0 | 41 | 1.915E-08 | 1.149E-07 | 400 |
| 126.0 | 4 | 2.293E-09 | 1.376E-08 | 400 |
| 130.0 | 0 | 2.559E-10 | 1.535E-09 | 400 |
| 134.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 3.930E-05 SEC/SQ.M 2.358E-04 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 79.0 | 1 | 0. | 0. | 800 |
| 82.0 | 44 | 1.403E-08 | 6.173E-08 | 800 |
| 85.0 | 862 | 2.749E-07 | 1.209E-06 | 800 |
| 88.0 | 6316 | 2.014E-06 | 8.856E-06 | 800 |
| 91.0 | 4035 | 1.286E-06 | 5.655E-06 | 800 |
| 94.0 | 1781 | 5.677E-07 | 2.496E-06 | 800 |
| 97.0 | 1100 | 3.507E-07 | 1.543E-06 | 800 |
| 97.1 | 4506 | 1.437E-06 | 6.321E-06 | 806 |
| 99.1 | 7912 | 9.265E-07 | 4.065E-06 | 809 |
| 101.1 | 2646 | 8.435E-07 | 3.712E-06 | 813 |
| 103.0 | 3477 | 1.106E-06 | 4.866E-06 | 816 |
| 105.0 | 4776 | 1.523E-06 | 6.700E-06 | 820 |
| 106.9 | 5228 | 1.665E-06 | 7.326E-06 | 823 |
| 108.8 | 10852 | 3.459E-06 | 1.522E-05 | 826 |
| 110.7 | 11938 | 3.806E-06 | 1.674E-05 | 829 |
| 112.6 | 7427 | 2.368E-06 | 1.042E-05 | 833 |
| 114.5 | 17093 | 5.449E-06 | 2.395E-05 | 836 |
| 116.4 | 25045 | 7.984E-06 | 3.513E-05 | 839 |
| 118.3 | 30696 | 9.785E-06 | 4.306E-05 | 842 |
| 120.2 | 28203 | 8.991E-06 | 3.956E-05 | 845 |
| 122.1 | 48189 | 1.536E-05 | 6.759E-05 | 848 |
| 124.0 | 50365 | 1.605E-05 | 7.054E-05 | 851 |
| 125.8 | 65986 | 2.103E-05 | 9.255E-05 | 854 |
| 127.7 | 30234 | 9.670E-06 | 4.255E-05 | 857 |
| 129.5 | 12112 | 3.861E-06 | 1.699E-05 | 859 |
| 131.4 | 718 | 2.295E-07 | 1.010E-06 | 862 |
| 133.2 | 0 | 0. | 0. | 865 |

CROSSWIND INTEGRATED= 3.369E-03 SEC/SQ.M 1.482E-02 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 0 | 0. | 0. | 800 |
| 79.0 | 0 | 9.032E-11 | 5.419E-10 | 800 |
| 82.0 | 0 | 0. | 0. | 800 |
| 85.0 | 0 | 7.527E-11 | 4.516E-10 | 800 |
| 88.0 | 0 | 0. | 0. | 800 |
| 91.0 | 0 | 3.011E-10 | 1.806E-09 | 800 |
| 94.0 | 0 | 0. | 0. | 800 |
| 97.0 | 186 | 8.656E-08 | 5.194E-07 | 800 |
| 101.1 | 0 | 8.314E-11 | 4.988E-10 | 813 |
| 103.0 | 8 | 4.157E-09 | 2.494E-08 | 816 |
| 105.0 | 6 | 2.827E-09 | 1.696E-08 | 820 |
| 106.9 | 56 | 2.627E-08 | 1.576E-07 | 823 |
| 108.8 | 11 | 5.155E-09 | 3.093E-08 | 826 |
| 110.7 | 1213 | 5.632E-07 | 3.379E-06 | 829 |
| 112.6 | 23 | 1.114E-08 | 6.685E-08 | 833 |
| 114.5 | 3380 | 1.569E-06 | 9.415E-06 | 836 |
| 116.4 | 3981 | 1.849E-06 | 1.109E-05 | 839 |
| 118.3 | 4733 | 2.198E-06 | 1.319E-05 | 842 |
| 120.2 | 3530 | 1.639E-06 | 9.834E-06 | 845 |
| 122.1 | 10600 | 4.921E-06 | 2.953E-05 | 848 |
| 124.0 | 9472 | 4.398E-06 | 2.639E-05 | 851 |
| 125.8 | 3906 | 1.814E-06 | 1.086E-05 | 854 |
| 127.7 | 4132 | 1.918E-06 | 1.151E-05 | 857 |
| 129.5 | 2645 | 1.228E-06 | 7.370E-06 | 859 |
| 131.4 | 120 | 5.604E-08 | 3.362E-07 | 862 |
| 133.2 | 0 | 0. | 0. | 865 |

CROSSWIND INTEGRATED= 6.213E-04 SEC/SQ.M 3.728E-03 1/M

1202788



U7

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 0 | 2.568E-10 | 1.130E-09 | 1200 |
| 84.0 | 42 | 1.361E-08 | 5.986E-08 | 1200 |
| 86.0 | 347 | 1.107E-07 | 4.869E-07 | 1200 |
| 88.0 | 1150 | 3.665E-07 | 1.613E-06 | 1200 |
| 90.0 | 2525 | 8.052E-07 | 3.543E-06 | 1200 |
| 92.0 | 2413 | 7.695E-07 | 3.386E-06 | 1200 |
| 94.0 | 2288 | 7.294E-07 | 3.210E-06 | 1200 |
| 96.0 | 1689 | 5.387E-07 | 2.370E-06 | 1200 |
| 98.0 | 1180 | 3.764E-07 | 1.656E-06 | 1200 |
| 100.0 | 1200 | 3.826E-07 | 1.683E-06 | 1200 |
| 102.0 | 1597 | 5.091E-07 | 2.240E-06 | 1200 |
| 104.0 | 1192 | 3.800E-07 | 1.672E-06 | 1200 |
| 106.0 | 1813 | 5.782E-07 | 2.544E-06 | 1200 |
| 108.0 | 1696 | 5.407E-07 | 2.379E-06 | 1200 |
| 110.0 | 5815 | 1.854E-06 | 8.157E-06 | 1200 |
| 112.0 | 7268 | 2.317E-06 | 1.019E-05 | 1200 |
| 114.0 | 7668 | 2.445E-06 | 1.076E-05 | 1200 |
| E 116.0 | 8403 | 2.679E-06 | 1.179E-05 | 1200 |
| 118.0 | 9099 | 2.901E-06 | 1.276E-05 | 1200 |
| 120.0 | 7927 | 2.527E-06 | 1.112E-05 | 1200 |
| 122.0 | 9346 | 2.979E-06 | 1.311E-05 | 1200 |
| 124.0 | 20283 | 6.466E-06 | 2.845E-05 | 1200 |
| 126.0 | 23845 | 7.601E-06 | 3.345E-05 | 1200 |
| E 128.0 | 9745 | 3.106E-06 | 1.367E-05 | 1200 |
| 130.0 | 2043 | 6.514E-07 | 2.866E-06 | 1200 |
| 132.0 | 111 | 3.543E-08 | 1.559E-07 | 1200 |
| 134.0 | 0 | 0. | 0. | 1200 |
| CROSSWIND INTEGRATED= | | 1.745E-03 SEC/SQ.M | 7.679E-03 1/M | |

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | CU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.0 | 0 | 8.396E-11 | 5.038E-10 | 1200 |
| 90.0 | 1 | 6.157E-10 | 3.694E-09 | 1200 |
| 92.0 | 42 | 1.965E-08 | 1.179E-07 | 1200 |
| 94.0 | 136 | 6.331E-08 | 3.799E-07 | 1200 |
| 96.0 | 173 | 8.066E-08 | 4.840E-07 | 1200 |
| 98.0 | 129 | 5.995E-08 | 3.597E-07 | 1200 |
| 100.0 | 282 | 1.310E-07 | 7.862E-07 | 1200 |
| 102.0 | 100 | 4.652E-08 | 2.791E-07 | 1200 |
| 104.0 | 18 | 8.452E-09 | 5.071E-08 | 1200 |
| 106.0 | 87 | 4.064E-08 | 2.438E-07 | 1200 |
| 108.0 | 105 | 4.887E-08 | 2.932E-07 | 1200 |
| 110.0 | 88 | 4.123E-08 | 2.474E-07 | 1200 |
| 112.0 | 181 | 8.413E-08 | 5.048E-07 | 1200 |
| 114.0 | 771 | 3.580E-07 | 2.148E-06 | 1200 |
| 0 116.0 | 2277 | 1.057E-06 | 6.345E-06 | 1200 |
| 118.0 | 3417 | 1.586E-06 | 9.518E-06 | 1200 |
| 120.0 | 3923 | 1.822E-06 | 1.093E-05 | 1200 |
| 122.0 | 2961 | 1.375E-06 | 8.249E-06 | 1200 |
| 124.0 | 4809 | 2.233E-06 | 1.340E-05 | 1200 |
| 126.0 | 4176 | 1.939E-06 | 1.163E-05 | 1200 |
| 0 128.0 | 4429 | 2.057E-06 | 1.234E-05 | 1200 |
| 130.0 | 1973 | 9.164E-07 | 5.498E-06 | 1200 |
| 132.0 | 47 | 2.217E-08 | 1.330E-07 | 1200 |
| 134.0 | 31 | 1.461E-08 | 8.766E-08 | 1200 |
| 136.0 | 20 | 9.292E-09 | 5.575E-08 | 1200 |
| 138.0 | 7 | 3.610E-09 | 2.166E-08 | 1200 |
| 140.0 | 2 | 1.120E-09 | 6.717E-09 | 1200 |
| CROSSWIND INTEGRATED= | | 5.872E-04 SEC/SQ.M | 3.523E-03 1/M | |

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 80.0 | 0 | 0. | 0. | 1600 |
| 82.0 | 4 | 1.541E-09 | 6.778E-09 | 1600 |
| 84.0 | 2 | 7.703E-10 | 3.339E-09 | 1600 |
| 86.0 | 0 | 0. | 0. | 1600 |
| 88.0 | 65 | 2.080E-08 | 9.151E-08 | 1600 |
| 90.0 | 527 | 1.682E-07 | 7.400E-07 | 1600 |
| 92.0 | 3859 | 1.230E-06 | 5.414E-06 | 1600 |
| 93.6 | 6205 | 1.978E-06 | 8.704E-06 | 1603 |
| 94.0 | 2121 | 6.763E-07 | 2.976E-06 | 1600 |
| 94.6 | 4656 | 1.484E-06 | 6.531E-06 | 1604 |
| 95.6 | 2429 | 7.746E-07 | 3.408E-06 | 1606 |
| 96.6 | 2131 | 6.795E-07 | 2.990E-06 | 1608 |
| 97.6 | 3307 | 1.054E-06 | 4.640E-06 | 1610 |
| 98.6 | 2312 | 7.371E-07 | 3.243E-06 | 1611 |
| 99.6 | 1686 | 5.377E-07 | 2.366E-06 | 1613 |
| 100.6 | 1816 | 5.789E-07 | 2.547E-06 | 1615 |
| 101.6 | 2454 | 9.100E-07 | 4.004E-06 | 1617 |
| 102.6 | 2777 | 8.853E-07 | 3.895E-06 | 1618 |
| 103.6 | 1491 | 4.756E-07 | 2.092E-06 | 1620 |
| 104.5 | 1107 | 3.530E-07 | 1.553E-06 | 1622 |
| 105.5 | 1230 | 3.923E-07 | 1.726E-06 | 1623 |
| P 106.5 | 2688 | 8.953E-07 | 3.939E-06 | 1625 |
| P 107.5 | 3150 | 1.004E-06 | 4.416E-06 | 1627 |
| P 108.5 | 4943 | 1.576E-06 | 6.933E-06 | 1629 |
| P 109.5 | 4682 | 1.493E-06 | 6.567E-06 | 1630 |
| P 110.4 | 4854 | 1.547E-06 | 6.809E-06 | 1632 |
| 111.4 | 7655 | 2.504E-06 | 1.102E-05 | 1633 |
| 112.4 | 11045 | 3.521E-06 | 1.549E-05 | 1635 |
| 113.4 | 8778 | 2.798E-06 | 1.231E-05 | 1637 |
| 114.4 | 9791 | 3.121E-06 | 1.373E-05 | 1638 |
| 115.3 | 12356 | 3.939E-06 | 1.733E-05 | 1640 |
| 116.3 | 13985 | 4.458E-06 | 1.962E-05 | 1641 |
| 117.3 | 9576 | 3.053E-06 | 1.343E-05 | 1643 |
| 118.2 | 10732 | 3.421E-06 | 1.505E-05 | 1644 |
| 119.2 | 10827 | 3.451E-06 | 1.519E-05 | 1646 |
| 120.2 | 11963 | 3.812E-06 | 1.678E-05 | 1647 |
| 121.2 | 10569 | 3.369E-06 | 1.482E-05 | 1649 |
| 122.1 | 15274 | 4.869E-06 | 2.142E-05 | 1650 |
| 123.1 | 14071 | 4.486E-06 | 1.974E-05 | 1652 |
| 124.1 | 16780 | 5.349E-06 | 2.354E-05 | 1653 |
| 125.0 | 27392 | 8.732E-06 | 3.842E-05 | 1655 |
| 126.0 | 45579 | 1.403E-05 | 6.435E-05 | 1656 |
| 126.9 | 52799 | 1.683E-05 | 7.406E-05 | 1658 |
| 127.8 | 43122 | 1.375E-05 | 6.049E-05 | 1659 |
| 128.8 | 22810 | 7.271E-06 | 3.199E-05 | 1660 |
| 129.7 | 6090 | 1.942E-06 | 8.543E-06 | 1662 |
| 130.6 | 1649 | 5.259E-07 | 2.314E-06 | 1663 |
| 131.5 | 160 | 5.121E-08 | 2.253E-07 | 1664 |
| 132.5 | 5 | 1.829E-09 | 8.046E-09 | 1665 |

CROSSWIND INTEGRATED= 3.740E-03 SEC/SQ.M 1.646E-02 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 78.0 | 0 | 1.679E-10 | 1.008E-09 | 1600 |
| 80.0 | 5 | 2.659E-09 | 1.595E-08 | 1600 |
| 82.0 | 0 | 0. | 0. | 1600 |
| 84.0 | 2 | 1.175E-09 | 7.053E-09 | 1600 |
| 86.0 | 0 | 0. | 0. | 1600 |
| 88.0 | 0 | 0. | 0. | 1600 |
| 90.0 | 0 | 0. | 0. | 1600 |
| 92.0 | 9 | 4.330E-09 | 2.603E-08 | 1600 |
| 93.6 | 1 | 8.553E-10 | 5.132E-09 | 1603 |
| 94.0 | 0 | 2.799E-10 | 1.679E-09 | 1600 |
| 94.6 | 0 | 0. | 0. | 1604 |
| 95.6 | 23 | 1.105E-08 | 6.632E-08 | 1606 |
| 96.6 | 1 | 7.457E-10 | 4.474E-09 | 1608 |
| 97.6 | 356 | 1.657E-07 | 9.940E-07 | 1610 |
| 98.6 | 633 | 2.940E-07 | 1.764E-06 | 1611 |
| 99.6 | 491 | 2.282E-07 | 1.369E-06 | 1613 |
| 100.6 | 1318 | 6.120E-07 | 3.672E-06 | 1615 |
| 101.6 | 1412 | 6.559E-07 | 3.935E-06 | 1617 |
| 102.6 | 167 | 7.795E-08 | 4.677E-07 | 1618 |
| 103.6 | 1082 | 5.023E-07 | 3.014E-06 | 1620 |
| 104.5 | 1483 | 6.888E-07 | 4.133E-06 | 1622 |
| P 105.5 | 916 | 4.256E-07 | 2.553E-06 | 1623 |
| 106.5 | 609 | 2.830E-07 | 1.698E-06 | 1625 |
| P 107.5 | 92 | 4.265E-08 | 2.571E-07 | 1627 |
| P 108.5 | 365 | 1.688E-07 | 1.073E-06 | 1628 |
| 109.5 | 30 | 1.401E-08 | 8.409E-08 | 1630 |
| 110.4 | 26 | 1.336E-08 | 8.014E-08 | 1632 |
| 111.4 | 66 | 3.079E-08 | 1.848E-07 | 1633 |
| 112.4 | 541 | 2.512E-07 | 1.507E-06 | 1635 |
| 113.4 | 229 | 1.065E-07 | 6.337E-07 | 1637 |
| 114.4 | 378 | 1.755E-07 | 1.053E-06 | 1638 |
| 115.3 | 1530 | 7.107E-07 | 4.264E-06 | 1640 |
| 116.3 | 1459 | 6.778E-07 | 4.067E-06 | 1641 |
| 117.3 | 2376 | 1.103E-06 | 6.620E-06 | 1643 |
| 118.2 | 4013 | 1.863E-06 | 1.118E-05 | 1644 |
| 119.2 | 4162 | 1.932E-06 | 1.159E-05 | 1646 |
| 120.2 | 4013 | 1.863E-06 | 1.118E-05 | 1647 |
| 121.2 | 7733 | 3.590E-06 | 2.154E-05 | 1649 |
| 122.1 | 8477 | 3.936E-06 | 2.361E-05 | 1650 |
| 123.1 | 3517 | 1.633E-06 | 9.798E-06 | 1652 |
| 124.1 | 5203 | 2.416E-06 | 1.450E-05 | 1653 |
| 125.0 | 5650 | 2.623E-06 | 1.574E-05 | 1655 |
| 126.0 | 6096 | 2.830E-06 | 1.698E-05 | 1656 |
| 126.9 | 7584 | 3.521E-06 | 2.113E-05 | 1658 |
| 127.8 | 4608 | 2.140E-06 | 1.284E-05 | 1659 |
| 128.8 | 10709 | 4.972E-06 | 2.983E-05 | 1660 |
| 129.7 | 4906 | 2.278E-06 | 1.367E-05 | 1662 |
| 130.6 | 5055 | 2.347E-06 | 1.408E-05 | 1663 |
| 131.5 | 4 | 2.062E-09 | 1.237E-08 | 1664 |

CROSSWIND INTEGRATED= 1.239E-03 SEC/SQ.M 7.433E-03 1/M

1202790



U7

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 78.0 | 0 | 0. | 0. | 2200 |
| 80.0 | 4 | 1.334E-09 | 5.668E-09 | 2200 |
| 82.0 | 10 | 3.201E-09 | 1.408E-08 | 2200 |
| 84.0 | 5 | 1.867E-09 | 8.215E-09 | 2200 |
| 86.0 | 0 | 0. | 0. | 2200 |
| 88.0 | 4 | 1.334E-09 | 5.868E-09 | 2200 |
| 90.0 | 0 | 0. | 0. | 2200 |
| 92.0 | 13 | 4.268E-09 | 1.878E-08 | 2200 |
| 4 94.0 | 71 | 2.294E-08 | 1.009E-07 | 2200 |
| E 96.0 | 80 | 2.574E-08 | 1.133E-07 | 2200 |
| 7 98.0 | 594 | 1.896E-07 | 8.344E-07 | 2200 |
| 100.0 | 1218 | 3.884E-07 | 1.709E-06 | 2200 |
| 102.0 | 1176 | 3.749E-07 | 1.650E-06 | 2200 |
| 104.0 | 1125 | 3.588E-07 | 1.579E-06 | 2200 |
| 106.0 | 530 | 1.691E-07 | 7.441E-07 | 2200 |
| 108.0 | 1640 | 5.231E-07 | 2.301E-06 | 2200 |
| E 110.0 | 893 | 2.847E-07 | 1.253E-06 | 2200 |
| 4 112.0 | 578 | 1.843E-07 | 8.110E-07 | 2200 |
| 114.0 | 5281 | 1.684E-06 | 7.408E-06 | 2200 |
| 116.0 | 6282 | 2.003E-06 | 8.812E-06 | 2200 |
| 118.0 | 2381 | 7.591E-07 | 3.340E-06 | 2200 |
| E 120.0 | 2185 | 6.967E-07 | 3.065E-06 | 2200 |
| 122.0 | 3688 | 1.176E-06 | 5.173E-06 | 2200 |
| 124.0 | 8581 | 2.736E-06 | 1.204E-05 | 2200 |
| 126.0 | 26632 | 8.490E-06 | 3.736E-05 | 2200 |
| 128.0 | 25840 | 8.237E-06 | 3.624E-05 | 2200 |
| 5 130.0 | 633 | 2.019E-07 | 8.884E-07 | 2200 |
| 132.0 | 18 | 6.001E-09 | 2.641E-08 | 2200 |
| 134.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 2.190E-03 SEC/SQ.M 9.637E-03 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 94.0 | 2 | 1.192E-09 | 7.153E-09 | 2200 |
| 5 96.0 | 0 | 3.198E-11 | 1.919E-10 | 2200 |
| 7 98.0 | 43 | 2.021E-08 | 1.212E-07 | 2200 |
| 100.0 | 83 | 3.896E-08 | 2.338E-07 | 2200 |
| 102.0 | 143 | 6.658E-08 | 3.995E-07 | 2200 |
| 104.0 | 246 | 1.146E-07 | 6.873E-07 | 2200 |
| 4 106.0 | 165 | 7.676E-08 | 4.606E-07 | 2200 |
| 108.0 | 152 | 7.094E-08 | 4.257E-07 | 2200 |
| 0 110.0 | 123 | 5.741E-08 | 3.445E-07 | 2200 |
| 6 112.0 | 68 | 3.176E-08 | 1.906E-07 | 2200 |
| 114.0 | 222 | 1.035E-07 | 6.211E-07 | 2200 |
| 116.0 | 439 | 2.043E-07 | 1.226E-06 | 2200 |
| 2 118.0 | 670 | 3.111E-07 | 1.867E-06 | 2200 |
| 0 120.0 | 1321 | 6.133E-07 | 3.680E-06 | 2200 |
| 122.0 | 3035 | 1.409E-06 | 8.456E-06 | 2200 |
| 124.0 | 1991 | 9.247E-07 | 5.548E-06 | 2200 |
| 126.0 | 3889 | 1.806E-06 | 1.083E-05 | 2200 |
| 128.0 | 3604 | 1.674E-06 | 1.004E-05 | 2200 |
| 5 130.0 | 2235 | 1.038E-06 | 6.226E-06 | 2200 |
| 132.0 | 10 | 4.797E-09 | 2.878E-08 | 2200 |
| 0 134.0 | 5 | 2.588E-09 | 1.553E-08 | 2200 |
| 136.0 | 2 | 1.279E-09 | 7.676E-09 | 2200 |
| 138.0 | 3 | 1.410E-09 | 8.461E-09 | 2200 |
| 140.0 | 0 | 4.507E-10 | 2.704E-09 | 2200 |

CROSSWIND INTEGRATED= 6.583E-04 SEC/SQ.M 3.950E-03 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.8 | 0 | 0. | 0. | 3200 |
| 91.8 | 12 | 3.900E-09 | 1.716E-08 | 3201 |
| 92.8 | 0 | 0. | 0. | 3203 |
| 93.8 | 0 | 0. | 0. | 3205 |
| 94.8 | 0 | 0. | 0. | 3206 |
| 95.8 | 0 | 0. | 0. | 3208 |
| 96.8 | 0 | 0. | 0. | 3210 |
| 97.8 | 5 | 1.733E-09 | 7.626E-09 | 3212 |
| 98.8 | 46 | 1.300E-08 | 5.719E-08 | 3213 |
| 99.8 | 228 | 7.279E-08 | 3.203E-07 | 3215 |
| 100.8 | 909 | 2.899E-07 | 1.275E-06 | 3217 |
| 101.8 | 1686 | 5.377E-07 | 2.366E-06 | 3218 |
| 102.8 | 1705 | 5.438E-07 | 2.393E-06 | 3220 |
| 103.8 | 1787 | 5.698E-07 | 2.507E-06 | 3222 |
| 104.8 | 1708 | 5.446E-07 | 2.376E-06 | 3224 |
| 105.8 | 1431 | 4.563E-07 | 2.008E-06 | 3225 |
| 106.8 | 1610 | 5.134E-07 | 2.259E-06 | 3227 |
| 107.8 | 1413 | 4.506E-07 | 1.983E-06 | 3229 |
| 108.8 | 1102 | 3.514E-07 | 1.546E-06 | 3230 |
| 109.7 | 1527 | 4.870E-07 | 2.143E-06 | 3232 |
| 110.7 | 1345 | 4.290E-07 | 1.887E-06 | 3233 |
| 111.7 | 1531 | 4.883E-07 | 2.149E-06 | 3235 |
| 112.7 | 1356 | 4.324E-07 | 1.903E-06 | 3237 |
| 113.7 | 1200 | 3.826E-07 | 1.683E-06 | 3238 |
| 114.6 | 1447 | 4.615E-07 | 2.030E-06 | 3240 |
| 115.6 | 2197 | 7.006E-07 | 3.083E-06 | 3241 |
| 116.6 | 2431 | 7.752E-07 | 3.411E-06 | 3243 |
| 117.6 | 2146 | 6.842E-07 | 3.010E-06 | 3245 |
| 118.6 | 3538 | 1.128E-06 | 4.963E-06 | 3246 |
| 119.5 | 4882 | 1.556E-05 | 6.846E-06 | 3248 |
| 120.5 | 4637 | 1.478E-06 | 6.505E-06 | 3249 |
| 121.5 | 3697 | 1.179E-06 | 5.188E-06 | 3251 |
| 122.4 | 4625 | 1.474E-06 | 6.488E-06 | 3252 |
| 123.4 | 7184 | 2.290E-06 | 1.008E-05 | 3253 |
| 124.4 | 9212 | 2.937E-06 | 1.292E-05 | 3255 |
| 125.4 | 12780 | 4.074E-06 | 1.793E-05 | 3256 |

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.8 | 0 | 0. | 0. | 3200 |
| 103.8 | 1 | 5.951E-10 | 3.571E-09 | 3222 |
| 104.8 | 39 | 1.825E-08 | 1.095E-07 | 3224 |
| 105.8 | 73 | 3.412E-08 | 2.047E-07 | 3225 |
| 106.8 | 207 | 9.611E-08 | 5.767E-07 | 3227 |
| 107.8 | 194 | 9.016E-08 | 5.410E-07 | 3229 |
| 108.8 | 340 | 1.581E-07 | 9.486E-07 | 3230 |
| 109.7 | 329 | 1.531E-07 | 9.189E-07 | 3232 |
| 110.7 | 415 | 1.928E-07 | 1.157E-06 | 3233 |
| 111.7 | 329 | 1.531E-07 | 9.189E-07 | 3235 |
| 112.7 | 393 | 1.829E-07 | 1.097E-06 | 3237 |
| 113.7 | 158 | 7.379E-08 | 4.426E-07 | 3238 |
| 114.6 | 404 | 1.879E-07 | 1.127E-06 | 3240 |
| 115.6 | 101 | 4.701E-08 | 2.821E-07 | 3241 |
| 116.6 | 276 | 1.283E-07 | 7.701E-07 | 3243 |
| 117.6 | 340 | 1.581E-07 | 9.486E-07 | 3245 |
| 118.6 | 372 | 1.730E-07 | 1.038E-06 | 3246 |
| 119.5 | 703 | 3.267E-07 | 1.960E-06 | 3248 |
| 120.5 | 1367 | 6.347E-07 | 3.808E-06 | 3249 |
| 121.5 | 1591 | 7.388E-07 | 4.433E-06 | 3251 |
| 122.4 | 2219 | 1.030E-06 | 6.183E-06 | 3252 |
| 123.4 | 3498 | 1.624E-06 | 9.744E-06 | 3253 |
| 124.4 | 3229 | 1.499E-06 | 8.995E-06 | 3255 |
| 125.4 | 3632 | 1.687E-06 | 1.012E-05 | 3256 |



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| | | | | |
|---|---|---|---|---|
| 126.3 | 16547 | 5.275E-06 | 2.321E-05 | 3258 |
| 127.3 | 18392 | 5.863E-06 | 2.580E-05 | 3259 |
| 128.3 | 9441 | 3.010E-06 | 1.324E-05 | 3261 |
| 129.3 | 2867 | 9.142E-07 | 4.023E-06 | 3262 |
| 130.3 | 341 | 1.088E-07 | 4.785E-07 | 3263 |
| 131.2 | 47 | 1.517E-08 | 6.673E-08 | 3264 |
| 132.2 | 0 | 0. | 0. | 3266 |

CROSSWIND INTEGRATED= 2.250E-03 SEC/SQ.M  9.901E-03 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.0 | 0 | 0. | 0. | 4650 |
| 100.0 | 5 | 1.734E-09 | 7.629E-09 | 4690 |
| 102.0 | 3 | 1.067E-09 | 4.694E-09 | 4710 |
| 104.0 | 0 | 0. | 0. | 4770 |
| 106.0 | 37 | 1.187E-08 | 5.223E-08 | 4810 |
| 108.0 | 136 | 4.348E-08 | 1.913E-07 | 4870 |
| 110.0 | 398 | 1.271E-07 | 5.592E-07 | 4920 |
| 112.0 | 416 | 1.328E-07 | 5.845E-07 | 4990 |
| 114.0 | 192 | 6.121E-08 | 2.693E-07 | 5080 |
| 116.0 | 235 | 7.508E-08 | 3.304E-07 | 5020 |
| 118.0 | 397 | 1.267E-07 | 5.575E-07 | 5100 |
| 120.0 | 1196 | 3.815E-07 | 1.677E-06 | 5130 |
| 122.0 | 1156 | 3.688E-07 | 1.623E-06 | 4930 |
| 124.0 | 1100 | 3.509E-07 | 1.544E-06 | 4660 |
| S 126.0 | 3558 | 1.134E-06 | 4.991E-06 | 4770 |
| [illegible] | 2125 | 6.775E-07 | 2.981E-06 | 4900 |
| C 130.0 | 187 | 5.988E-08 | 2.635E-07 | 4970 |
| 6 132.0 | 2 | 8.032E-10 | 3.521E-09 | 4960 |
| 134.0 | 0 | 0. | 0. | 4990 |

CROSSWIND INTEGRATED= 6.042E-06 SEC/SQ.M  2.659E-05 1/M

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.0 | 0 | 0. | 0. | 6500 |
| 94.0 | 0 | 0. | 0. | 6550 |
| 104.0 | 0 | 0. | 0. | 6550 |
| 106.0 | 0 | 0. | 0. | 6720 |
| 108.0 | 0 | 0. | 0. | 6850 |
| 5 112.0 | 6 | 2.134E-09 | 9.389E-09 | 7300 |
| 4 114.0 | 263 | 8.415E-08 | 3.703E-07 | 7210 |
| 116.0 | 702 | 2.239E-07 | 9.853E-07 | 7220 |
| 118.0 | 973 | 3.102E-07 | 1.365E-06 | 7190 |
| 120.0 | 787 | 2.511E-07 | 1.105E-06 | 7150 |
| 122.0 | 750 | 2.391E-07 | 1.052E-06 | 7120 |
| 0 124.0 | 647 | 2.063E-07 | 9.076E-07 | 7100 |
| 126.0 | 2705 | 8.625E-07 | 3.795E-06 | 7100 |
| X 128.0 | 1698 | 5.415E-07 | 2.382E-06 | 7100 |
| E 130.0 | 1277 | 4.072E-07 | 1.792E-06 | 7130 |
| 0 132.0 | 1130 | 3.602E-07 | 1.585E-06 | 7150 |
| 4 134.0 | 105 | 3.374E-08 | 1.485E-07 | 7200 |
| 5 136.0 | 0 | 0. | 0. | 7250 |

CROSSWIND INTEGRATED= 8.772E-04 SEC/SQ.M  3.860E-03 1/M

| | | | | |
|---|---|---|---|---|
| 126.3 | 7850 | 3.644E-06 | 2.167E-05 | 3258 |
| 127.3 | 10542 | 4.894E-06 | 2.937E-05 | 3259 |
| 128.3 | 5831 | 2.707E-06 | 1.624E-05 | 3261 |
| 129.3 | 4373 | 2.030E-06 | 1.218E-05 | 3262 |
| 130.3 | 649 | 3.014E-07 | 1.809E-06 | 3263 |
| 131.2 | 33 | 1.577E-08 | 9.462E-08 | 3264 |
| 132.2 | 15 | 7.141E-09 | 4.285E-08 | 3266 |
| 133.2 | 45 | 2.123E-08 | 1.274E-07 | 3267 |
| 134.2 | 0 | 1.488E-10 | 8.927E-10 | 3268 |

CROSSWIND INTEGRATED= 1.283E-03 SEC/SQ.M  7.700E-03 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 1 | 5.234E-10 | 3.140E-09 | 4710 |
| 104.0 | 0 | 4.361E-11 | 2.617E-10 | 4770 |
| 106.0 | 2 | 1.090E-09 | 6.542E-09 | 4810 |
| 108.0 | 6 | 2.908E-09 | 1.745E-08 | 4870 |
| 110.0 | 46 | 2.137E-08 | 1.282E-07 | 4920 |
| 112.0 | 121 | 5.626E-08 | 3.376E-07 | 4990 |
| 114.0 | 140 | 6.789E-08 | 4.073E-07 | 5080 |
| 116.0 | 46 | 2.181E-08 | 1.309E-07 | 5020 |
| 118.0 | 69 | 3.227E-08 | 1.936E-07 | 5100 |
| 120.0 | 196 | 9.115E-08 | 5.469E-07 | 5130 |
| 122.0 | 327 | 1.522E-07 | 9.133E-07 | 4830 |
| 124.0 | 906 | 4.209E-07 | 2.525E-06 | 4660 |
| S 126.0 | 1643 | 7.628E-07 | 4.577E-06 | 4770 |
| [illegible] | 1906 | 8.849E-07 | 5.309E-06 | 4900 |
| C 130.0 | 1774 | 8.239E-07 | 4.943E-06 | 4970 |
| 6 132.0 | 1 | 8.723E-10 | 5.234E-09 | 4980 |
| 134.0 | 0 | 1.163E-10 | 6.978E-10 | 4990 |
| 136.0 | 1 | 6.978E-10 | 4.187E-09 | 5060 |
| 138.0 | 0 | 3.489E-10 | 2.093E-09 | 5020 |
| 140.0 | 1 | 5.234E-10 | 3.140E-09 | 5060 |

CROSSWIND INTEGRATED= 5.660E-04 SEC/SQ.M  3.408E-03 1/M

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 6.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 5 112.0 | 0 | 3.344E-10 | 2.006E-09 | 7300 |
| 4 114.0 | 11 | 5.234E-09 | 3.140E-08 | 7210 |
| 116.0 | 99 | 4.627E-09 | 2.776E-07 | 7220 |
| 118.0 | 248 | 1.156E-07 | 6.935E-07 | 7190 |
| 120.0 | 97 | 4.536E-08 | 2.721E-07 | 7150 |
| 5 122.0 | 60 | 2.796E-08 | 1.677E-07 | 7120 |
| 0 124.0 | 196 | 9.115E-08 | 5.469E-07 | 7100 |
| 2 126.0 | 2169 | 1.007E-06 | 6.042E-06 | 7100 |
| 7 128.0 | 1202 | 5.582E-07 | 3.349E-06 | 7100 |
| E 130.0 | 1084 | 5.033E-07 | 3.020E-06 | 7130 |
| 0 132.0 | 1084 | 5.033E-07 | 3.020E-06 | 7150 |
| 4 134.0 | 39 | 1.832E-08 | 1.099E-07 | 7200 |
| 5 136.0 | 0 | 7.269E-11 | 4.361E-10 | 7250 |

CROSSWIND INTEGRATED= 7.264E-04 SEC/SQ.M  4.358E-03 1/M

1202792

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION. ZNS DISPERSAL FOR 30 CONTINUOUS MIN. FLUORESCEIN ON FIRST 5 MIN. OFF 10 MIN. THEN ON 15 MIN. (FLUORESCEIN ON AT 0140PST. OFF AT 0145PST. ON AT 0155PST AND OFF AGAIN AT 0210PST.) FLUORESCEIN DISPERSAL DEVICE PROBLEMS.

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 400 |
| 106.0 | 99 | 3.218E-08 | 1.770E-07 | 400 |
| P 110.0 | 3013 | 9.793E-07 | 5.386E-06 | 400 |
| P 114.0 | 30366 | 9.869E-06 | 5.428E-05 | 400 |
| P 118.0 | 38474 | 1.250E-05 | 6.877E-05 | 400 |
| P 122.0 | 32527 | 1.057E-05 | 5.814E-05 | 400 |
| 126.0 | 35581 | 1.156E-05 | 6.360E-05 | 400 |
| 130.0 | 27936 | 9.079E-06 | 4.994E-05 | 400 |
| 134.0 | 8308 | 2.700E-06 | 1.485E-05 | 400 |
| 138.0 | 434 | 1.412E-07 | 7.768E-07 | 400 |
| 142.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.604E-03 SEC/SQ.M 8.822E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 0 | 1.355E-10 | 8.807E-10 | 400 |
| P 110.0 | 14 | 6.774E-09 | 4.403E-08 | 400 |
| P 114.0 | 3 | 1.505E-09 | 9.785E-09 | 400 |
| P 118.0 | 50 | 2.348E-08 | 1.526E-07 | 400 |
| P 122.0 | 202 | 9.424E-08 | 6.125E-07 | 400 |
| 126.0 | 4901 | 2.276E-06 | 1.479E-05 | 400 |
| 130.0 | 1 | 9.032E-10 | 5.871E-09 | 400 |

CROSSWIND INTEGRATED= 6.709E-05 SEC/SQ.M 4.361E-04 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 105.0 | 0 | 0. | 0. | 820 |
| 106.9 | 26 | 8.709E-09 | 4.790E-08 | 823 |
| 108.8 | 520 | 1.692E-07 | 9.306E-07 | 826 |
| 110.7 | 5125 | 1.666E-06 | 9.162E-06 | 829 |
| 112.6 | 8399 | 2.730E-06 | 1.501E-05 | 833 |
| 114.5 | 20067 | 6.522E-06 | 3.587E-05 | 836 |
| 116.4 | 31100 | 1.011E-05 | 5.559E-05 | 839 |
| 118.3 | 31211 | 1.014E-05 | 5.579E-05 | 842 |
| 120.2 | 32524 | 1.057E-05 | 5.814E-05 | 845 |
| 122.1 | 48392 | 1.573E-05 | 8.650E-05 | 848 |
| 124.0 | 44414 | 1.443E-05 | 7.939E-05 | 851 |
| 125.8 | 43790 | 1.423E-05 | 7.827E-05 | 854 |
| 127.7 | 32000 | 1.040E-05 | 5.720E-05 | 857 |
| 129.5 | 20500 | 6.662E-06 | 3.664E-05 | 859 |
| 131.4 | 8092 | 2.630E-06 | 1.447E-05 | 862 |
| 133.2 | 4134 | 1.344E-06 | 7.390E-06 | 865 |
| 135.0 | 757 | 2.463E-07 | 1.355E-06 | 867 |
| 136.8 | 15 | 4.977E-09 | 2.737E-08 | 869 |
| 138.7 | 0 | 0. | 0. | 872 |
| 162.2 | 0 | 0. | 0. | 894 |

CROSSWIND INTEGRATED= 2.988E-03 SEC/SQ.M 1.643E-02 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.7 | 22 | 1.031E-08 | 6.701E-08 | 829 |
| 112.6 | 820 | 3.811E-07 | 2.477E-06 | 833 |
| 114.5 | 6537 | 3.035E-06 | 1.973E-05 | 836 |
| 116.4 | 2400 | 1.114E-06 | 7.244E-06 | 839 |
| 118.3 | 6537 | 3.035E-06 | 1.973E-05 | 842 |
| 120.2 | 7214 | 3.349E-06 | 2.177E-05 | 845 |
| 122.1 | 10598 | 4.921E-06 | 3.198E-05 | 848 |
| 124.0 | 8342 | 3.873E-06 | 2.517E-05 | 851 |
| 125.8 | 1076 | 4.998E-07 | 3.249E-06 | 854 |
| 127.7 | 7214 | 3.349E-06 | 2.177E-05 | 857 |
| 129.5 | 2174 | 1.010E-06 | 6.563E-06 | 859 |
| 131.4 | 348 | 1.616E-07 | 1.051E-06 | 862 |
| 133.2 | 63 | 2.943E-08 | 1.913E-07 | 865 |
| 135.0 | 0 | 0. | 0. | 867 |

CROSSWIND INTEGRATED= 6.691E-04 SEC/SQ.M 4.479E-03 1/M

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U73

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.0 | 0 | 0. | 0. | 1200 |
| 110.0 | 175 | 5.706E-08 | 3.139E-07 | 1200 |
| 112.0 | 303 | 9.868E-08 | 5.428E-07 | 1200 |
| 114.0 | 3057 | 9.936E-07 | 5.465E-06 | 1200 |
| 116.0 | 3480 | 1.131E-06 | 6.221E-06 | 1200 |
| 118.0 | 10915 | 3.547E-06 | 1.951E-05 | 1200 |
| 120.0 | 12547 | 4.078E-06 | 2.243E-05 | 1200 |
| 122.0 | 9971 | 3.241E-06 | 1.782E-05 | 1200 |
| 124.0 | 9885 | 3.213E-06 | 1.767E-05 | 1200 |
| 126.0 | 11884 | 3.862E-06 | 2.124E-05 | 1200 |
| 128.0 | 2137 | 6.947E-07 | 3.821E-06 | 1200 |
| 130.0 | 1448 | 4.706E-07 | 2.589E-06 | 1200 |
| 132.0 | 343 | 1.118E-07 | 6.147E-07 | 1200 |
| 134.0 | 9 | 3.141E-09 | 1.728E-06 | 1200 |
| 136.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 9.007E-04 SEC/SQ.M 4.954E-03 1/M

TEST U74 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.0 | 0 | 0. | 0. | 1200 |
| 110.0 | 26 | 1.245E-08 | 8.096E-08 | 1200 |
| 112.0 | 111 | 5.164E-08 | 3.356E-07 | 1200 |
| 114.0 | 1252 | 5.814E-07 | 3.779E-06 | 1200 |
| 116.0 | 2050 | 9.517E-07 | 6.186E-06 | 1200 |
| 118.0 | 4687 | 2.176E-06 | 1.415E-05 | 1200 |
| 120.0 | 7305 | 3.392E-06 | 2.205E-05 | 1200 |
| 122.0 | 7671 | 3.561E-06 | 2.315E-05 | 1200 |
| 124.0 | 6757 | 3.137E-06 | 2.039E-05 | 1200 |
| 126.0 | 6392 | 2.968E-06 | 1.929E-05 | 1200 |
| 128.0 | 3164 | 1.469E-06 | 9.540E-06 | 1200 |
| 130.0 | 2050 | 9.517E-07 | 6.186E-06 | 1200 |
| 132.0 | 228 | 1.059E-07 | 6.886E-07 | 1200 |
| 134.0 | 5 | 2.687E-09 | 1.746E-08 | 1200 |
| 136.0 | 1 | 6.717E-10 | 4.366E-09 | 1200 |

CROSSWIND INTEGRATED= 8.110E-04 SEC/SQ.M 5.272E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.5 | 0 | 0. | 0. | 1620 |
| 109.5 | 126 | 4.102E-08 | 2.266E-07 | 1630 |
| 110.4 | 120 | 3.924E-08 | 2.155E-07 | 1632 |
| 111.4 | 172 | 5.619E-08 | 3.096E-07 | 1633 |
| 112.4 | 367 | 2.818E-07 | 1.550E-06 | 1635 |
| 113.4 | 1756 | 5.708E-07 | 3.139E-06 | 1637 |
| 114.4 | 3729 | 1.212E-06 | 6.666E-06 | 1638 |
| 115.3 | 4681 | 1.521E-06 | 8.368E-06 | 1640 |
| 116.3 | 12765 | 4.149E-06 | 2.282E-05 | 1641 |
| 117.3 | 13956 | 4.536E-06 | 2.495E-05 | 1643 |
| 118.2 | 22985 | 7.470E-06 | 4.108E-05 | 1644 |
| 119.2 | 22842 | 7.424E-06 | 4.083E-05 | 1646 |
| 120.2 | 27718 | 9.009E-06 | 4.955E-05 | 1647 |
| 121.2 | 33349 | 1.084E-05 | 5.961E-05 | 1649 |
| 122.1 | 30833 | 1.002E-05 | 5.511E-05 | 1650 |
| 123.1 | 21577 | 7.012E-06 | 3.857E-05 | 1652 |
| 124.1 | 25186 | 8.185E-06 | 4.502E-05 | 1653 |
| 125.0 | 43234 | 1.405E-05 | 7.728E-05 | 1655 |
| 126.0 | 22990 | 7.472E-06 | 4.109E-05 | 1656 |
| 126.9 | 14585 | 4.740E-06 | 2.607E-05 | 1658 |
| 127.8 | 11574 | 3.762E-06 | 2.069E-05 | 1659 |
| 128.8 | 3918 | 1.274E-06 | 7.004E-06 | 1660 |
| 129.7 | 2211 | 7.188E-07 | 3.953E-06 | 1662 |
| 130.6 | 740 | 2.406E-07 | 1.324E-06 | 1663 |
| 131.5 | 540 | 1.757E-07 | 9.663E-07 | 1664 |
| 132.5 | 21 | 7.145E-09 | 3.924E-08 | 1665 |
| 133.5 | 0 | 0. | 0. | 1667 |

CROSSWIND INTEGRATED= 2.900E-03 SEC/SQ.M 1.595E-02 1/M

TEST U74 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.5 | 0 | 0. | 0. | 1630 |
| 109.4 | 7 | 3.5[illegible]E-09 | 2.281E-08 | 1632 |
| 111.4 | 123 | 5.724E-08 | 3.721E-07 | 1633 |
| 112.4 | 633 | 2.941E-07 | 1.912E-06 | 1635 |
| 113.4 | 822 | 3.818E-07 | 2.482E-06 | 1637 |
| 114.4 | 769 | 3.573E-07 | 2.322E-06 | 1638 |
| 115.3 | 2823 | 1.311E-06 | 8.519E-06 | 1640 |
| 116.3 | 3219 | 1.495E-06 | 9.717E-06 | 1641 |
| 117.3 | 4311 | 2.002E-06 | 1.301E-05 | 1643 |
| 118.2 | 6692 | 3.107E-06 | 2.019E-05 | 1644 |
| 119.2 | 11305 | 5.249E-06 | 3.412E-05 | 1646 |
| 120.2 | 8329 | 3.867E-06 | 2.513E-05 | 1647 |
| 121.2 | 8180 | 3.798E-06 | 2.469E-05 | 1649 |
| 122.1 | 18349 | 8.519E-06 | 5.537E-05 | 1650 |
| 123.1 | 13388 | 6.216E-06 | 4.040E-05 | 1652 |
| 124.1 | 14876 | 6.907E-06 | 4.489E-05 | 1653 |
| 125.0 | 11900 | 5.525E-06 | 3.591E-05 | 1655 |
| 126.0 | 7436 | 3.452E-06 | 2.244E-05 | 1656 |
| 126.9 | 4757 | 2.209E-06 | 1.436E-05 | 1658 |
| 127.8 | 6096 | 2.831E-06 | 1.840E-05 | 1659 |
| 128.8 | 6692 | 3.107E-06 | 2.019E-05 | 1660 |
| 129.7 | 1156 | 5.369E-07 | 3.490E-06 | 1662 |
| 130.6 | 704 | 3.270E-07 | 2.126E-06 | 1663 |
| 131.5 | 704 | 3.270E-07 | 2.126E-06 | 1664 |
| 132.5 | 0 | 4.386E-10 | 2.851E-09 | 1665 |
| 133.5 | 0 | 0. | 0. | 1667 |

CROSSWIND INTEGRATED= 1.715E-03 SEC/SQ.M 1.115E-02 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 0. | 0. | 2200 |
| 7 112.0 | 4 | 1.360E-09 | 7.478E-09 | 2200 |
| 114.0 | 367 | 1.194E-07 | 6.566E-07 | 2200 |
| 116.0 | 447 | 1.453E-07 | 7.994E-07 | 2200 |
| 118.0 | 2621 | 8.518E-07 | 4.685E-06 | 2200 |
| F 120.0 | 7111 | 2.311E-06 | 1.271E-05 | 2200 |
| 122.0 | 7210 | 2.343E-06 | 1.289E-05 | 2200 |
| 124.0 | 2805 | 9.119E-07 | 5.016E-06 | 2200 |
| 126.0 | 2930 | 9.523E-07 | 5.238E-06 | 2200 |
| 128.0 | 971 | 3.156E-07 | 1.736E-06 | 2200 |
| 130.0 | 65 | 2.121E-08 | 1.167E-07 | 2200 |
| 132.0 | 15 | 5.167E-09 | 2.842E-08 | 2200 |
| 0 134.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 6.127E-04 SEC/SQ.M 3.370E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.8 | 0 | 0. | 0. | 3227 |
| 111.7 | 0 | 0. | 0. | 3235 |
| 112.7 | 35 | 1.149E-08 | 6.317E-08 | 3237 |
| 113.7 | 80 | 2.605E-08 | 1.433E-07 | 3238 |
| 114.6 | 580 | 1.886E-07 | 1.037E-06 | 3240 |
| 115.6 | 1265 | 4.113E-07 | 2.262E-06 | 3241 |
| 116.6 | 2119 | 6.887E-07 | 3.786E-06 | 3243 |
| 117.6 | 3616 | 1.175E-06 | 6.465E-06 | 3245 |
| 118.6 | 7114 | 2.312E-06 | 1.272E-05 | 3246 |
| 119.5 | 10332 | 3.358E-06 | 1.847E-05 | 3248 |
| 120.5 | 13718 | 4.458E-06 | 2.452E-05 | 3249 |
| 121.5 | 12552 | 4.079E-06 | 2.244E-05 | 3251 |
| 122.4 | 12151 | 3.949E-06 | 2.172E-05 | 3252 |
| 123.4 | 9518 | 3.093E-06 | 1.701E-05 | 3253 |
| 124.4 | 6842 | 2.224E-06 | 1.223E-05 | 3255 |
| 125.4 | 3871 | 1.258E-06 | 6.919E-06 | 3256 |
| 126.3 | 2615 | 8.499E-07 | 4.674E-06 | 3258 |
| 127.3 | 505 | 1.643E-07 | 9.038E-07 | 3259 |
| 128.3 | 118 | 3.843E-08 | 2.114E-07 | 3261 |
| 129.3 | 5 | 1.767E-09 | 9.718E-09 | 3262 |
| 130.3 | 0 | 0. | 0. | 3263 |
| 142.0 | 0 | 0. | 0. | 3278 |

CROSSWIND INTEGRATED= 1.559E-03 SEC/SQ.M 8.576E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 112.0 | 0 | 0. | 0. | 4990 |
| 114.0 | 4 | 1.496E-09 | 8.226E-09 | 5080 |
| 116.0 | 51 | 1.659E-08 | 9.123E-08 | 5020 |
| 118.0 | 596 | 1.938E-07 | 1.066E-06 | 5100 |
| 120.0 | 612 | 1.991E-07 | 1.095E-06 | 5130 |
| 122.0 | 2700 | 8.778E-07 | 4.826E-06 | 4830 |
| 124.0 | 362 | 1.177E-07 | 6.476E-07 | 4660 |
| 126.0 | 238 | 7.736E-08 | 4.255E-07 | 4770 |
| 128.0 | 17 | 5.847E-09 | 3.216E-08 | 4900 |
| 130.0 | 0 | 2.719E-10 | 1.496E-09 | 4970 |

CROSSWIND INTEGRATED= 2.544E-04 SEC/SQ.M 1.399E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 3 108.0 | 0 | 4.071E-10 | 2.646E-09 | 2200 |
| 8 110.0 | 0 | 1.018E-10 | 6.615E-10 | 2200 |
| 7 112.0 | 1 | 5.815E-10 | 3.780E-09 | 2200 |
| 114.0 | 130 | 6.077E-08 | 3.950E-07 | 2200 |
| 116.0 | 1478 | 6.866E-07 | 4.463E-06 | 2200 |
| 118.0 | 2432 | 1.129E-06 | 7.340E-06 | 2200 |
| C 120.0 | 4174 | 1.938E-06 | 1.260E-05 | 2200 |
| 122.0 | 8538 | 3.964E-06 | 2.577E-05 | 2200 |
| 124.0 | 6261 | 2.907E-06 | 1.890E-05 | 2200 |
| 126.0 | 4174 | 1.938E-06 | 1.260E-05 | 2200 |
| 128.0 | 1419 | 6.591E-07 | 4.284E-06 | 2200 |
| 4 130.0 | 157 | 7.298E-08 | 4.744E-07 | 2200 |
| 132.0 | 4 | 2.108E-09 | 1.370E-08 | 2200 |
| 0 134.0 | 9 | 4.361E-09 | 2.835E-08 | 2200 |
| 136.0 | 2 | 1.018E-09 | 6.615E-09 | 2200 |

CROSSWIND INTEGRATED= 1.026E-03 SEC/SQ.M 6.671E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 112.7 | 5 | 2.728E-09 | 1.773E-08 | 3237 |
| 113.7 | 8 | 3.918E-09 | 2.547E-08 | 3238 |
| 114.6 | 238 | 1.106E-07 | 7.188E-07 | 3240 |
| 115.6 | 809 | 3.759E-07 | 2.443E-06 | 3241 |
| 116.6 | 1455 | 6.759E-07 | 4.394E-06 | 3243 |
| 117.6 | 3093 | 1.436E-06 | 9.335E-06 | 3245 |
| 118.6 | 2891 | 1.342E-06 | 8.726E-06 | 3246 |
| 119.5 | 4170 | 1.936E-06 | 1.258E-05 | 3248 |
| 120.5 | 5179 | 2.405E-06 | 1.563E-05 | 3249 |
| 121.5 | 7400 | 3.436E-06 | 2.233E-05 | 3251 |
| 122.4 | 6727 | 3.123E-06 | 2.030E-05 | 3252 |
| 123.4 | 5830 | 2.707E-06 | 1.759E-05 | 3253 |
| 124.4 | 8970 | 4.165E-06 | 2.707E-05 | 3255 |
| 125.4 | 6279 | 2.915E-06 | 1.895E-05 | 3256 |
| 126.3 | 2555 | 1.186E-06 | 7.711E-06 | 3258 |
| 127.3 | 962 | 4.468E-07 | 2.904E-06 | 3259 |
| 128.3 | 103 | 4.810E-08 | 3.127E-07 | 3261 |
| 129.3 | 3 | 1.736E-09 | 1.128E-08 | 3262 |

CROSSWIND INTEGRATED= 1.454E-03 SEC/SQ.M 9.449E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 2.908E-11 | 1.890E-10 | 4920 |
| 112.0 | 6 | 3.053E-09 | 1.984E-08 | 4990 |
| 114.0 | 0 | 3.198E-10 | 2.079E-09 | 5080 |
| 116.0 | 31 | 1.403E-08 | 9.639E-08 | 5020 |
| 118.0 | 827 | 3.842E-07 | 2.498E-06 | 5100 |
| 120.0 | 2169 | 1.007E-06 | 6.546E-06 | 5130 |
| 122.0 | 2432 | 1.129E-06 | 7.339E-06 | 4830 |
| 124.0 | 1971 | 9.154E-07 | 5.950E-06 | 4660 |
| 126.0 | 1643 | 7.628E-07 | 4.956E-06 | 4770 |
| 128.0 | 216 | 1.003E-07 | 6.520E-07 | 4900 |
| 130.0 | 7 | 3.634E-09 | 2.362E-08 | 4970 |
| 132.0 | 1 | 4.652E-10 | 3.024E-09 | 4980 |
| 134.0 | 0 | 4.071E-10 | 2.646E-09 | 4990 |

CROSSWIND INTEGRATED= 7.362E-04 SEC/SQ.M 4.785E-03 1/M

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U73

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 7 112.0 | 0 | 0. | 0. | 7300 |
| 8 114.0 | 0 | 0. | 0. | 7210 |
| 116.0 | 65 | 2.121E-08 | 1.157E-07 | 7220 |
| 118.0 | 454 | 1.477E-07 | 8.121E-07 | 7190 |
| 120.0 | 4899 | 1.592E-06 | 8.758E-06 | 7150 |
| 122.0 | 5109 | 1.661E-06 | 9.134E-06 | 7120 |
| 6 124.0 | 611 | 1.988E-07 | 1.093E-06 | 7100 |
| 126.0 | 127 | 4.133E-08 | 2.273E-07 | 7100 |
| 4 128.0 | 0 | 0. | 0. | 7100 |
| 146.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 9.121E-04 SEC/SQ.M 5.017E-03 1/M

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 5.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 0. | 0. | 12800 |
| 6 111.0 | 4 | 1.359E-09 | 7.473E-09 | 12800 |
| 112.0 | 23 | 7.614E-09 | 4.188E-08 | 12800 |
| 113.0 | 77 | 2.529E-08 | 1.391E-07 | 12800 |
| 8 114.0 | 18 | 6.118E-09 | 3.365E-08 | 12800 |
| 7 115.0 | 57 | 1.876E-08 | 1.032E-07 | 12800 |
| 8 116.0 | 233 | 7.557E-08 | 4.157E-07 | 12800 |
| 117.0 | 1137 | 3.698E-07 | 2.034E-06 | 12800 |
| 118.0 | 334 | 1.086E-07 | 5.975E-07 | 12800 |
| 119.0 | 160 | 5.208E-08 | 2.864E-07 | 12800 |
| 120.0 | 208 | 6.771E-08 | 3.724E-07 | 12800 |
| 8 121.0 | 232 | 7.560E-08 | 4.158E-07 | 12800 |
| 122.0 | 229 | 7.455E-08 | 4.100E-07 | 12800 |
| 123.0 | 138 | 4.487E-08 | 2.468E-07 | 12800 |
| 4 124.0 | 115 | 3.739E-08 | 2.056E-07 | 12800 |
| 4 125.0 | 56 | 1.830E-08 | 1.010E-07 | 12800 |
| 8 126.0 | 5 | 1.768E-09 | 9.722E-09 | 12800 |
| 127.0 | 23 | 7.614E-09 | 4.188E-08 | 12800 |
| 5 128.0 | 11 | 3.807E-09 | 2.094E-08 | 12800 |
| 4 129.0 | 4 | 1.360E-09 | 7.478E-09 | 12800 |
| 7 130.0 | 0 | 0. | 0. | 12800 |
| 131.0 | 5 | 1.904E-09 | 1.047E-08 | 12800 |
| 4 132.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 2.235E-04 SEC/SQ.M 1.229E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 116.0 | 4 | 2.312E-09 | 1.502E-08 | 7220 |
| 118.0 | 64 | 2.979E-08 | 1.936E-07 | 7190 |
| 120.0 | 1182 | 5.491E-07 | 3.569E-06 | 7150 |
| 122.0 | 3024 | 1.404E-06 | 9.125E-06 | 7120 |
| 6 124.0 | 1439 | 6.682E-07 | 4.343E-06 | 7100 |
| 126.0 | 85 | 3.986E-08 | 2.591E-07 | 7100 |
| 4 128.0 | 2 | 1.352E-09 | 8.788E-09 | 7100 |
| 130.0 | 1 | 5.815E-10 | 3.780E-09 | 7150 |
| 3 132.0 | 0 | 2.035E-10 | 1.323E-09 | 7150 |
| 134.0 | 0 | 3.053E-10 | 1.984E-09 | 7200 |
| 5 136.0 | 0 | 2.617E-10 | 1.701E-09 | 7250 |
| 4 138.0 | 2 | 1.134E-09 | 7.371E-09 | 7300 |

CROSSWIND INTEGRATED= 6.705E-04 SEC/SQ.M 4.358E-03 1/M

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 3.178E-10 | 2.079E-09 | 12800 |
| 8 111.0 | 10 | 4.652E-09 | 3.024E-08 | 12800 |
| 112.0 | 10 | 5.068E-09 | 3.307E-08 | 12800 |
| 113.0 | 23 | 1.090E-08 | 7.087E-08 | 12800 |
| 9 114.0 | 46 | 2.137E-08 | 1.389E-07 | 12800 |
| 7 115.0 | 86 | 4.027E-08 | 2.618E-07 | 12800 |
| 8 116.0 | 227 | 1.057E-07 | 6.870E-07 | 12800 |
| 8 117.0 | 518 | 2.407E-07 | 1.565E-06 | 12800 |
| 5 118.0 | 275 | 1.278E-07 | 8.306E-07 | 12800 |
| 5 119.0 | 229 | 1.064E-07 | 6.917E-07 | 12800 |
| 3 120.0 | 73 | 3.402E-08 | 2.211E-07 | 12800 |
| 8 121.0 | 61 | 2.864E-08 | 1.862E-07 | 12800 |
| 122.0 | 57 | 2.660E-08 | 1.729E-07 | 12800 |
| 123.0 | 15 | 7.123E-09 | 4.630E-08 | 12800 |
| 4 124.0 | 48 | 2.268E-08 | 1.474E-07 | 12800 |
| 4 125.0 | 7 | 3.634E-09 | 2.362E-08 | 12800 |
| 8 126.0 | 5 | 2.617E-09 | 1.701E-08 | 12800 |
| 3 127.0 | 4 | 2.050E-09 | 1.332E-08 | 12800 |
| 8 128.0 | 3 | 1.463E-09 | 9.639E-09 | 12800 |
| 4 129.0 | 5 | 2.406E-09 | 1.616E-08 | 12800 |
| 7 130.0 | 3 | 1.575E-09 | 1.021E-08 | 12800 |
| 131.0 | 2 | 1.265E-09 | 8.221E-09 | 12800 |
| 4 132.0 | 1 | 8.723E-10 | 5.670E-09 | 12800 |
| 3 133.0 | 0 | 1.599E-10 | 1.039E-09 | 12800 |

CROSSWIND INTEGRATED= 1.784E-04 SEC/SQ.M 1.159E-03 1/M

1202796

SAMPLING 400M TO 7000M. NO TOWER SAMPLING.
TRACER SKEWED TO NORTH.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 0 | 0. | 0. | 400 |
| 98.0 | 176 | 6.305E-08 | 2.900E-07 | 400 |
| 102.0 | 169 | 6.059E-08 | 2.787E-07 | 400 |
| 106.0 | 2379 | 8.522E-07 | 3.920E-06 | 400 |
| 110.0 | 6045 | 2.165E-06 | 9.961E-06 | 400 |
| 4 114.0 | 4157 | 1.489E-06 | 6.850E-06 | 400 |
| 118.0 | 2618 | 9.379E-07 | 4.314E-06 | 400 |
| 122.0 | 26 | 9.359E-09 | 4.305E-08 | 400 |
| 126.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.558E-04 SEC/SQ.M 7.165E-04 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 0 | 0. | 0. | 800 |
| 97.0 | 94 | 3.399E-08 | 1.563E-07 | 800 |
| 97.1 | 877 | 3.145E-07 | 1.447E-06 | 806 |
| 99.1 | 1589 | 5.693E-07 | 2.619E-06 | 809 |
| 101.1 | 7593 | 2.427E-06 | 1.301E-05 | 813 |
| 103.0 | 5709 | 2.045E-06 | 9.406E-06 | 816 |
| 105.0 | 26889 | 9.631E-06 | 4.430E-05 | 820 |
| 106.7 | 22640 | 8.109E-06 | 3.730E-05 | 823 |
| 108.8 | 32976 | 1.181E-05 | 5.433E-05 | 826 |
| 110.7 | 34162 | 1.224E-05 | 5.629E-05 | 829 |
| 112.6 | 23185 | 8.304E-06 | 3.820E-05 | 833 |
| 114.5 | 60535 | 2.168E-05 | 9.974E-05 | 836 |
| 116.4 | 28253 | 1.012E-05 | 4.655E-05 | 839 |
| 118.3 | 7564 | 2.709E-06 | 1.246E-05 | 842 |
| 120.2 | 353 | 1.267E-07 | 5.827E-07 | 845 |
| 122.1 | 0 | 0. | 0. | 848 |

CROSSWIND INTEGRATED= 2.498E-03 SEC/SQ.M 1.149E-02 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 1200 |
| 94.0 | 16 | 6.058E-09 | 2.787E-06 | 1200 |
| 96.0 | 74 | 2.654E-08 | 1.221E-07 | 1200 |
| 98.0 | 646 | 2.317E-07 | 1.066E-06 | 1200 |
| 100.0 | 1705 | 6.107E-07 | 2.809E-06 | 1200 |
| 102.0 | 4866 | 1.743E-06 | 8.018E-06 | 1200 |
| 104.0 | 13774 | 4.934E-06 | 2.269E-05 | 1200 |
| 106.0 | 19810 | 7.095E-06 | 3.264E-05 | 1200 |
| 108.0 | 23637 | 8.466E-06 | 3.894E-05 | 1200 |
| 110.0 | 20373 | 7.297E-06 | 3.357E-05 | 1200 |
| 112.0 | 20852 | 7.469E-06 | 3.436E-05 | 1200 |
| 114.0 | 24447 | 8.756E-06 | 4.026E-05 | 1200 |
| 116.0 | 12952 | 4.639E-06 | 2.134E-05 | 1200 |
| 118.0 | 1468 | 5.259E-07 | 2.419E-06 | 1200 |
| 4 120.0 | 67 | 2.423E-08 | 1.115E-07 | 1200 |
| 122.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.171E-03 SEC/SQ.M 9.986E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 3 | 1.322E-09 | 8.197E-09 | 400 |
| 90.0 | 3 | 1.359E-09 | 8.425E-09 | 400 |
| 94.0 | 3 | 1.285E-09 | 7.970E-09 | 400 |
| 3 98.0 | 1 | 3.673E-10 | 2.277E-09 | 400 |
| 102.0 | 1 | 3.673E-10 | 2.277E-09 | 400 |
| 106.0 | 0 | 2.975E-10 | 1.844E-09 | 400 |
| 110.0 | 1 | 5.142E-10 | 3.188E-09 | 400 |
| 4 114.0 | 2 | 9.182E-10 | 5.693E-09 | 400 |
| 118.0 | 1 | 4.774E-10 | 2.960E-09 | 400 |
| 122.0 | 0 | 8.814E-11 | 5.465E-10 | 400 |

CROSSWIND INTEGRATED= 1.954E-07 SEC/SQ.M 1.211E-06 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 2 [illegible] | 0 | 0. | 0. | 800 |
| 105.0 | 1 | 3.651E-10 | 2.264E-09 | 820 |
| 106.9 | 0 | 2.556E-10 | 1.585E-09 | 823 |
| 108.8 | 0 | 1.095E-10 | 6.791E-10 | 826 |
| 110.7 | 6 | 2.312E-09 | 1.434E-08 | 829 |
| 112.6 | 373 | 1.271E-07 | 7.878E-07 | 833 |
| 114.5 | 10384 | 1.032E-05 | 6.401E-05 | 836 |
| 2 116.4 | 33640 | 1.143E-05 | 7.087E-05 | 839 |
| 2 118.3 | 19532 | 6.637E-06 | 4.115E-05 | 842 |
| 120.2 | 2555 | 8.662E-07 | 5.383E-06 | 845 |
| 122.1 | 1466 | 4.982E-07 | 3.089E-06 | 848 |
| 124.0 | 1 | 5.111E-10 | 3.169E-09 | 851 |

CROSSWIND INTEGRATED= 8.310E-04 SEC/SQ.M 5.157E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.0 | 0 | 1.536E-10 | 9.525E-10 | 1200 |
| 106.0 | 0 | 2.192E-10 | 1.359E-09 | 1200 |
| 108.0 | 55 | 1.886E-08 | 1.169E-07 | 1200 |
| 110.0 | 42 | 1.456E-08 | 9.026E-08 | 1200 |
| 112.0 | 391 | 1.332E-07 | 8.256E-07 | 1200 |
| 114.0 | 12238 | 4.156E-06 | 2.578E-05 | 1200 |
| 116.0 | 15830 | 5.379E-06 | 3.335E-05 | 1200 |
| 118.0 | 13394 | 4.551E-06 | 2.822E-05 | 1200 |
| 4 120.0 | 1176 | 3.999E-07 | 2.479E-06 | 1200 |
| 122.0 | 22 | 7.594E-09 | 4.706E-08 | 1200 |
| 124.0 | 5 | 1.960E-09 | 1.215E-08 | 1200 |
| 126.0 | 7 | 2.391E-09 | 1.482E-08 | 1200 |
| 5 128.0 | 0 | 1.291E-10 | 8.001E-10 | 1200 |
| 130.0 | 0 | 1.659E-10 | 1.029E-09 | 1200 |

CROSSWIND INTEGRATED= 6.144E-04 SEC/SQ.M 3.809E-03 1/M

1202797

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 1 | 5.770E-10 | 2.654E-09 | 1600 |
| 93.6 | 0 | 0. | 0. | 1603 |
| 94.0 | 15 | 5.481E-09 | 2.521E-08 | 1600 |
| 94.6 | 30 | 1.076E-08 | 4.952E-08 | 1604 |
| 95.6 | 18 | 6.459E-09 | 2.971E-08 | 1606 |
| 96.6 | 126 | 4.521E-08 | 2.080E-07 | 1608 |
| 97.6 | 96 | 3.445E-08 | 1.585E-07 | 1610 |
| 98.6 | 432 | 1.550E-07 | 7.131E-07 | 1611 |
| 99.6 | 360 | 1.292E-07 | 5.942E-07 | 1613 |
| 100.6 | 769 | 2.756E-07 | 1.268E-06 | 1615 |
| 101.6 | 1650 | 5.910E-07 | 2.719E-06 | 1617 |
| 102.6 | 3991 | 1.430E-06 | 6.576E-06 | 1618 |
| 103.6 | 6660 | 2.385E-06 | 1.097E-05 | 1620 |
| 104.5 | 7582 | 2.716E-06 | 1.249E-05 | 1622 |
| 105.5 | 12292 | 4.403E-06 | 2.025E-05 | 1623 |
| 106.5 | 17657 | 6.324E-06 | 2.909E-05 | 1625 |
| 107.5 | 20311 | 7.275E-06 | 3.346E-05 | 1627 |
| 108.5 | 28540 | 1.022E-05 | 4.702E-05 | 1628 |
| 109.5 | 26053 | 1.005E-05 | 4.622E-05 | 1630 |
| 110.4 | 31684 | 1.135E-05 | 5.220E-05 | 1632 |
| 111.5 | 29256 | 1.048E-05 | 4.821E-05 | 1633 |
| 112.4 | 27434 | 9.826E-06 | 4.520E-05 | 1635 |
| 113.4 | 50084 | 1.794E-05 | 8.252E-05 | 1637 |
| 114.4 | 39101 | 1.400E-05 | 6.442E-05 | 1638 |
| 115.3 | 16226 | 5.812E-06 | 2.673E-05 | 1640 |
| 116.3 | 13329 | 4.774E-06 | 2.196E-05 | 1641 |
| 117.3 | 2701 | 9.678E-07 | 4.452E-06 | 1643 |
| 118.2 | 1175 | 4.209E-07 | 1.936E-06 | 1644 |
| 119.2 | 210 | 7.535E-08 | 3.466E-07 | 1646 |
| 120.2 | 0 | 0. | 0. | 1647 |

CROSSWIND INTEGRATED= 3.399E-03 SEC/SQ.M 1.564E-02 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 0. | 0. | 2200 |
| 88.0 | 4 | 1.644E-09 | 7.562E-09 | 2200 |
| X 90.0 | 0 | 0. | 0. | 2200 |
| 92.0 | 14 | 5.095E-09 | 2.344E-08 | 2200 |
| X 94.0 | 24 | 8.841E-09 | 4.067E-08 | 2200 |
| 96.0 | 50 | 1.798E-08 | 8.271E-08 | 2200 |
| X 98.0 | 109 | 3.911E-08 | 1.799E-07 | 2200 |
| H 100.0 | 56 | 2.0[illegible]E-08 | 9.256E-08 | 2200 |
| 102.0 | 823 | 2.950E-07 | 1.357E-06 | 2200 |
| F 104.0 | 1706 | 6.111E-07 | 2.811E-06 | 2200 |
| 106.0 | 3520 | 1.261E-06 | 5.800E-06 | 2200 |
| 108.0 | 10168 | 3.642E-06 | 1.675E-05 | 2200 |
| F 110.0 | 9699 | 3.474E-06 | 1.598E-05 | 2200 |
| 112.0 | 8205 | 2.939E-06 | 1.352E-05 | 2200 |
| F 114.0 | 2969 | 1.064E-06 | 4.893E-06 | 2200 |
| 116.0 | 2006 | 7.188E-07 | 3.307E-06 | 2200 |
| S 118.0 | 479 | 1.716E-07 | 7.892E-07 | 2200 |
| O 120.0 | 4 | 1.498E-09 | 6.893E-09 | 2200 |
| T 122.0 | 0 | 0. | 0. | 2200 |
| X 124.0 | 0 | 0. | 0. | 2200 |
| 126.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.096E-03 SEC/SQ.M 5.041E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| Z 0.0 | 0 | 0. | 0. | 1600 |
| 108.5 | 1 | 3.853E-10 | 2.369E-09 | 1628 |
| 109.5 | 203 | 6.920E-08 | 4.290E-07 | 1630 |
| 110.4 | 3 | 1.220E-09 | 7.564E-09 | 1632 |
| 111.4 | 28 | 1.310E-08 | 8.121E-08 | 1633 |
| 112.4 | 3753 | 1.276E-06 | 7.903E-06 | 1635 |
| 113.4 | 6545 | 2.224E-06 | 1.379E-05 | 1637 |
| 114.4 | 10414 | 3.539E-06 | 2.194E-05 | 1638 |
| 115.3 | 30057 | 1.021E-05 | 6.332E-05 | 1640 |
| 116.3 | 54869 | 1.864E-05 | 1.156E-04 | 1641 |
| 117.3 | 32920 | 1.119E-05 | 6.935E-05 | 1643 |
| 118.2 | 22900 | 7.781E-06 | 4.824E-05 | 1644 |
| 119.2 | 16459 | 5.593E-06 | 3.467E-05 | 1646 |
| 120.2 | 2031 | 6.904E-07 | 4.281E-06 | 1647 |
| 121.2 | 919 | 3.124E-07 | 1.937E-06 | 1649 |
| 1 122.1 | 3 | 1.300E-09 | 8.061E-09 | 1650 |
| 123.1 | 0 | 3.371E-10 | 2.090E-09 | 1652 |
| 124.1 | 0 | 1.685E-10 | 1.045E-09 | 1653 |
| 125.0 | 31 | 1.069E-08 | 6.626E-08 | 1655 |
| 126.[illegible] | 0 | 7.223E-11 | 4.479E-10 | 1656 |
| 1 126.9 | 2 | 1.300E-09 | 8.061E-09 | 1658 |

CROSSWIND INTEGRATED= 1.717E-03 SEC/SQ.M 1.064E-02 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| X 104.0 | 0 | 0. | 0. | 2200 |
| Z 106.0 | 1 | 3.511E-10 | 2.177E-09 | 2200 |
| 108.0 | 0 | 9.576E-11 | 5.937E-10 | 2200 |
| O 110.0 | 2 | 9.683E-10 | 6.003E-09 | 2200 |
| Z 112.0 | 240 | 8.172E-08 | 5.066E-07 | 2200 |
| F 114.0 | 1824 | 6.200E-07 | 3.844E-06 | 2200 |
| Z 116.0 | 12461 | 4.234E-06 | 2.625E-05 | 2200 |
| S 118.0 | 8674 | 3.015E-06 | 1.870E-05 | 2200 |
| O 120.0 | 2561 | 8.703E-07 | 5.396E-06 | 2200 |
| T 122.0 | 21 | 7.342E-09 | 4.552E-08 | 2200 |
| X 124.0 | 19 | 6.451E-09 | 4.024E-08 | 2200 |
| 3 126.0 | 3 | 1.256E-09 | 7.784E-09 | 2200 |
| 128.0 | 5 | 1.766E-09 | 1.095E-08 | 2200 |
| 1 130.0 | 3 | 1.064E-09 | 6.597E-09 | 2200 |

CROSSWIND INTEGRATED= 6.789E-04 SEC/SQ.M 4.209E-03 1/M

1202798



U7

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 89.8 | 0 | 0. | 0. | 3200 |
| 90.8 | 8 | 2.921E-09 | 1.344E-08 | 3199 |
| 91.8 | 24 | 8.763E-09 | 4.031E-08 | 3201 |
| 92.8 | 67 | 2.434E-08 | 1.120E-07 | 3203 |
| 93.8 | 587 | 2.103E-07 | 9.674E-07 | 3205 |
| 94.8 | 689 | 2.468E-07 | 1.135E-06 | 3206 |
| 95.8 | 827 | 2.965E-07 | 1.364E-06 | 3208 |
| 96.8 | 981 | 3.515E-07 | 1.617E-06 | 3210 |
| 97.8 | 392 | 1.407E-07 | 6.472E-07 | 3212 |
| 98.8 | 1149 | 4.119E-07 | 1.895E-06 | 3213 |
| 99.8 | 941 | 3.374E-07 | 1.552E-06 | 3215 |
| 100.8 | 1361 | 4.878E-07 | 2.244E-06 | 3217 |
| 101.8 | 1307 | 4.683E-07 | 2.154E-06 | 3218 |
| 102.8 | 1620 | 5.803E-07 | 2.669E-06 | 3220 |
| 103.8 | 1380 | 4.946E-07 | 2.275E-06 | 3222 |
| 104.8 | 1723 | 6.173E-07 | 2.840E-06 | 3224 |
| 105.8 | 3044 | 1.090E-06 | 5.016E-06 | 3225 |
| 106.8 | 2719 | 9.741E-07 | 4.481E-06 | 3227 |
| 107.8 | 5352 | 1.917E-06 | 8.819E-06 | 3229 |
| E 108.8 | 5807 | 2.080E-06 | 9.569E-06 | 3230 |
| E 109.7 | 5079 | 1.819E-06 | 8.369E-06 | 3232 |
| E 110.7 | 4296 | 1.539E-06 | 7.079E-06 | 3233 |
| 111.7 | 3668 | 1.314E-06 | 6.044E-06 | 3235 |
| 112.7 | 3297 | 1.181E-06 | 5.433E-06 | 3237 |
| 113.7 | 4291 | 1.537E-06 | 7.070E-06 | 3238 |
| 114.6 | 6325 | 2.266E-06 | 1.042E-05 | 3240 |
| 115.6 | 7704 | 2.759E-06 | 1.269E-05 | 3241 |
| 116.6 | 4171 | 1.494E-06 | 6.873E-06 | 3243 |
| 117.6 | 2162 | 7.745E-07 | 3.563E-06 | 3245 |
| 118.6 | 368 | 1.319E-07 | 6.069E-07 | 3246 |
| 119.5 | 29 | 1.071E-08 | 4.927E-08 | 3248 |
| 120.5 | 2 | 9.737E-10 | 4.479E-09 | 3249 |

CROSSWIND INTEGRATED= 1.420E-03 SEC/SQ.M 6.532E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 1.498E-10 | 6.893E-10 | 4610 |
| 92.0 | 153 | 5.499E-08 | 2.530E-07 | 4620 |
| 94.0 | 494 | 1.773E-07 | 8.154E-07 | 4620 |
| 96.0 | 348 | 1.250E-07 | 5.749E-07 | 4620 |
| 98.0 | 266 | 9.560E-08 | 4.398E-07 | 4660 |
| 100.0 | 594 | 2.120E-07 | 9.786E-07 | 4690 |
| 102.0 | 536 | 1.923E-07 | 8.844E-07 | 4710 |
| 104.0 | 733 | 2.628E-07 | 1.209E-06 | 4770 |
| 106.0 | 2723 | 9.753E-07 | 4.487E-06 | 4810 |
| 108.0 | 5211 | 1.867E-06 | 8.586E-06 | 4870 |
| 110.0 | 1708 | 6.120E-07 | 2.815E-06 | 4920 |
| 112.0 | 945 | 3.385E-07 | 1.557E-06 | 4990 |
| 114.0 | 3381 | 1.211E-06 | 5.571E-06 | 5080 |
| 116.0 | 792 | 2.838E-07 | 1.306E-06 | 5020 |
| 118.0 | 292 | 1.048E-07 | 4.825E-07 | 5100 |
| 120.0 | 93 | 3.357E-08 | 1.544E-07 | 5130 |
| 122.0 | 0 | 1.498E-10 | 6.893E-10 | 4830 |
| 124.0 | 2 | 8.991E-10 | 4.136E-09 | 4660 |
| 126.0 | 0 | 0. | 0. | 4770 |

CROSSWIND INTEGRATED= 1.118E-03 SEC/SQ.M 5.142E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| Z 0.0 | 0 | 0. | 0. | 3200 |
| 100.8 | 0 | 0. | 0. | 3217 |
| 101.8 | 49 | 1.673E-08 | 1.037E-07 | 3218 |
| 102.8 | 26 | 9.111E-09 | 5.649E-08 | 3220 |
| 103.8 | 43 | 1.492E-08 | 9.249E-08 | 3222 |
| 104.8 | 68 | 2.327E-08 | 1.443E-07 | 3224 |
| 105.8 | 220 | 7.481E-08 | 4.638E-07 | 3225 |
| 106.8 | 46 | 1.564E-08 | 9.699E-08 | 3227 |
| 107.8 | 191 | 6.501E-08 | 4.031E-07 | 3229 |
| E 108.8 | 351 | 1.195E-07 | 7.406E-07 | 3230 |
| E 109.7 | 661 | 2.247E-07 | 1.393E-06 | 3232 |
| E 110.7 | 1210 | 4.113E-07 | 2.550E-06 | 3233 |
| 111.7 | 2152 | 7.314E-07 | 4.535E-06 | 3235 |
| 112.7 | 2152 | 7.314E-07 | 4.535E-06 | 3237 |
| 113.7 | 2960 | 1.006E-06 | 6.236E-06 | 3238 |
| 114.6 | 4306 | 1.463E-06 | 9.072E-06 | 3240 |
| 115.6 | 7119 | 2.419E-06 | 1.500E-05 | 3241 |
| Z 116.6 | 5158 | 1.753E-06 | 1.087E-05 | 3243 |
| 117.6 | 9061 | 3.079E-06 | 1.909E-05 | 3245 |
| 118.6 | 5607 | 1.905E-06 | 1.181E-05 | 3246 |
| 119.5 | 1816 | 6.171E-07 | 3.826E-06 | 3248 |
| 120.5 | 582 | 1.979E-07 | 1.227E-06 | 3249 |
| 121.5 | 214 | 7.285E-08 | 4.517E-07 | 3251 |
| 122.4 | 1 | 5.445E-10 | 3.376E-09 | 3252 |
| 123.4 | 10 | 3.465E-09 | 2.160E-08 | 3253 |
| 124.4 | 4 | 1.416E-09 | 8.777E-09 | 3255 |
| 125.4 | 2 | 9.074E-10 | 5.626E-09 | 3256 |
| 126.3 | 0 | 1.742E-10 | 1.080E-09 | 3258 |

CROSSWIND INTEGRATED= 8.310E-04 SEC/SQ.M 5.152E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 4620 |
| 94.0 | 0 | 3.192E-10 | 1.979E-09 | 4620 |
| 96.0 | 0 | 3.192E-10 | 1.979E-09 | 4620 |
| 98.0 | 2 | 8.299E-10 | 5.146E-09 | 4660 |
| 100.0 | 13 | 4.575E-09 | 2.837E-08 | 4690 |
| 102.0 | 24 | 8.299E-09 | 5.146E-08 | 4710 |
| 104.0 | 55 | 1.883E-08 | 1.168E-07 | 4770 |
| 106.0 | 93 | 3.160E-08 | 1.959E-07 | 4810 |
| 108.0 | 216 | 7.342E-08 | 4.552E-07 | 4870 |
| 110.0 | 472 | 1.606E-07 | 9.955E-07 | 4920 |
| 112.0 | 1577 | 5.359E-07 | 3.323E-06 | 4990 |
| 114.0 | 3225 | 1.096E-06 | 6.794E-06 | 5080 |
| 116.0 | 3319 | 1.128E-06 | 6.994E-06 | 5020 |
| 118.0 | 3414 | 1.160E-06 | 7.194E-06 | 5100 |
| A 120.0 | 1675 | 5.693E-07 | 3.529E-06 | 5130 |
| F 122.0 | 492 | 1.673E-07 | 1.037E-06 | 4830 |
| 124.0 | 1 | 5.746E-10 | 3.562E-09 | 4660 |
| 126.0 | 1 | 4.150E-10 | 2.573E-09 | 4770 |
| F 128.0 | 0 | 1.596E-10 | 9.895E-10 | 4900 |

CROSSWIND INTEGRATED= 8.731E-04 SEC/SQ.M 5.413E-03 1/M

1202799



U74

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 6500 |
| 92.0 | 8 | 3.147E-09 | 1.446E-08 | 6490 |
| 94.0 | 6 | 2.394E-09 | 1.102E-08 | 6500 |
| 96.0 | 42 | 1.513E-08 | 6.962E-08 | 6510 |
| 98.0 | 87 | 3.132E-08 | 1.441E-07 | 6520 |
| 100.0 | 96 | 3.536E-08 | 1.627E-07 | 6560 |
| 102.0 | 215 | 7.702E-08 | 3.543E-07 | 6610 |
| 104.0 | 95 | 3.416E-08 | 1.572E-07 | 6650 |
| 106.0 | 258 | 9.245E-08 | 4.253E-07 | 6720 |
| S 108.0 | 318 | 1.140E-07 | 5.245E-07 | 6800 |
| H 110.0 | 1958 | 7.014E-07 | 3.227E-06 | 7000 |
| 5 112.0 | 108 | 3.881E-08 | 1.785E-07 | 7300 |
| 5 114.0 | 76 | 2.742E-08 | 1.261E-07 | 7210 |
| 116.0 | 83 | 2.982E-08 | 1.372E-07 | 7220 |
| 118.0 | 92 | 3.312E-08 | 1.523E-07 | 7190 |
| 120.0 | 70 | 2.532E-08 | 1.165E-07 | 7150 |
| 122.0 | 0 | 0. | 0. | 7120 |
| 7 124.0 | 0 | 2.997E-10 | 1.379E-09 | 7100 |
| 126.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 3.046E-04 SEC/SQ.M 1.402E-03 1/M

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 5.320E-11 | 3.298E-10 | 6560 |
| 102.0 | 2 | 8.619E-10 | 5.344E-09 | 6610 |
| 104.0 | 3 | 1.213E-09 | 7.521E-09 | 6650 |
| 106.0 | 8 | 2.969E-09 | 1.841E-08 | 6720 |
| T 108.0 | 38 | 1.318E-08 | 8.174E-06 | 6800 |
| H 110.0 | 282 | 9.586E-08 | 5.943E-07 | 7000 |
| 5 112.0 | 367 | 1.249E-07 | 7.744E-07 | 7300 |
| 5 114.0 | 1577 | 5.360E-07 | 3.323E-06 | 7210 |
| 116.0 | 1709 | 5.807E-07 | 3.601E-06 | 7220 |
| E 118.0 | 919 | 3.126E-07 | 1.936E-06 | 7190 |
| 120.0 | 328 | 1.115E-07 | 6.913E-07 | 7150 |
| 122.0 | 0 | 2.234E-10 | 1.385E-09 | 7120 |
| 7 124.0 | 0 | 5.320E-11 | 3.296E-10 | 7100 |
| 4 126.0 | 0 | 2.766E-10 | 1.715E-09 | 7100 |
| X 128.0 | 0 | 1.596E-10 | 9.895E-10 | 7100 |

CROSSWIND INTEGRATED= 4.473E-04 SEC/SQ.M 2.773E-03 1/M

SAMPLING 400M TO 12800M, BUT NO TRACER OBSERVED AT 12800M. NO TOWER SAMPLING.
5000M AND 7000M ARCS TRUNCATED ON NORTH. WIND SPEED MEASURED AT 12800M ARC AVERAGED ABOUT 0.2 M/SEC AT 1.5M ELEVATION. RELATIVELY LARGE DIRECTION SHEAR WITH ELEVATION (ABOUT 20 DEGREES FROM 15M TO 61M).

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 5 | 2.052E-09 | 5.951E-09 | 400 |
| 66.0 | 86 | 3.078E-08 | 8.926E-08 | 400 |
| 70.0 | 594 | 2.114E-07 | 6.129E-07 | 400 |
| 74.0 | 13389 | 4.756E-06 | 1.379E-05 | 400 |
| 78.0 | 2980 | 1.059E-06 | 3.071E-06 | 400 |
| 82.0 | 1273 | 4.525E-07 | 1.312E-06 | 400 |
| 86.0 | 3083 | 1.095E-06 | 3.176E-06 | 400 |
| 90.0 | 860 | 3.057E-07 | 8.867E-07 | 400 |
| 94.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 2.210E-04 SEC/SQ.M 6.408E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 58.0 | 0 | 0. | 0. | 800 |
| 61.0 | 24 | 8.721E-09 | 2.529E-08 | 800 |
| 64.0 | 72 | 2.565E-08 | 7.438E-08 | 800 |
| 67.0 | 199 | 7.079E-08 | 2.053E-07 | 800 |
| 70.0 | 1550 | 5.510E-07 | 1.598E-06 | 800 |
| 73.0 | 1911 | 6.792E-07 | 1.970E-06 | 800 |
| E 76.0 | 2856 | 1.015E-06 | 2.943E-06 | 800 |
| E 79.0 | 7275 | 2.584E-06 | 7.495E-06 | 800 |
| E 82.0 | 9094 | 3.231E-06 | 9.369E-06 | 800 |
| F 85.0 | 4545 | 1.615E-06 | 4.683E-06 | 800 |
| 88.0 | 2044 | 7.264E-07 | 2.107E-06 | 800 |
| 91.0 | 642 | 2.283E-07 | 6.620E-07 | 800 |
| 94.0 | 131 | 4.668E-08 | 1.354E-07 | 800 |
| 97.0 | 0 | 0. | 0. | 806 |

CROSSWIND INTEGRATED= 4.516E-04 SEC/SQ.M 1.310E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 0 | 3.072E-10 | 7.679E-10 | 400 |
| 66.0 | 3 | 1.152E-09 | 2.880E-09 | 400 |
| 70.0 | 0 | 3.840E-11 | 9.599E-11 | 400 |
| 74.0 | 0 | 0. | 0. | 400 |
| 78.0 | 2 | 9.215E-10 | 2.304E-09 | 400 |
| 2 82.0 | 8 | 3.149E-09 | 7.871E-09 | 400 |
| 86.0 | 1224 | 4.349E-07 | 1.087E-06 | 400 |
| Z 90.0 | 1541 | 5.478E-07 | 1.369E-06 | 400 |
| 94.0 | 5446 | 1.935E-06 | 4.837E-06 | 400 |
| 4 98.0 | 21 | 7.526E-09 | 1.881E-08 | 400 |
| 102.0 | 9 | 3.379E-09 | 8.447E-09 | 400 |
| 106.0 | 1 | 4.608E-10 | 1.152E-09 | 400 |
| 110.0 | 8 | 2.918E-09 | 7.295E-09 | 400 |
| 3 114.0 | 7 | 2.688E-09 | 6.719E-09 | 400 |

CROSSWIND INTEGRATED= 8.210E-05 SEC/SQ.M 2.052E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 70.0 | 0 | 1.421E-10 | 3.552E-10 | 800 |
| 73.0 | 1 | 6.143E-10 | 1.536E-09 | 800 |
| E 76.0 | 9 | 3.225E-09 | 8.063E-09 | 800 |
| F 79.0 | 49 | 1.751E-08 | 4.377E-08 | 800 |
| E 82.0 | 171 | 6.090E-08 | 1.522E-07 | 800 |
| E 85.0 | 517 | 1.838E-07 | 4.594E-07 | 800 |
| 88.0 | 1564 | 5.558E-07 | 1.390E-06 | 800 |
| 91.0 | 10439 | 3.709E-06 | 9.271E-06 | 800 |
| Z 94.0 | 4084 | 1.451E-06 | 3.627E-06 | 800 |
| 97.0 | 3267 | 1.161E-06 | 2.901E-06 | 800 |
| 97.1 | 3306 | 1.175E-06 | 2.937E-06 | 806 |
| F 99.1 | 4360 | 1.549E-06 | 3.872E-06 | 809 |
| 101.1 | 5638 | 2.003E-06 | 5.008E-06 | 813 |
| 103.0 | 3457 | 1.228E-06 | 3.071E-06 | 816 |
| 105.0 | 1 | 6.744E-10 | 1.686E-09 | 820 |

CROSSWIND INTEGRATED= 4.263E-04 SEC/SQ.M 1.066E-03 1/M

1202801



U75

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 1 | 5.722E-10 | 1.660E-09 | 1200 |
| 64.0 | 20 | 7.439E-09 | 2.157E-08 | 1200 |
| 66.0 | 405 | 1.439E-07 | 4.174E-07 | 1200 |
| 68.0 | 350 | 1.245E-07 | 3.609E-07 | 1200 |
| 70.0 | 2502 | 8.890E-07 | 2.578E-06 | 1200 |
| 72.0 | 5408 | 1.921E-06 | 5.572E-06 | 1200 |
| 74.0 | 6350 | 2.256E-06 | 6.542E-06 | 1200 |
| 76.0 | 11140 | 3.958E-06 | 1.148E-05 | 1200 |
| 78.0 | 5812 | 2.065E-06 | 5.988E-06 | 1200 |
| 80.0 | 9550 | 3.393E-06 | 9.838E-06 | 1200 |
| 82.0 | 6450 | 2.292E-06 | 6.646E-06 | 1200 |
| 84.0 | 4061 | 1.443E-06 | 4.184E-06 | 1200 |
| 86.0 | 5342 | 1.898E-06 | 5.504E-06 | 1200 |
| 88.0 | 919 | 3.268E-07 | 9.476E-07 | 1200 |
| 90.0 | 1966 | 6.987E-07 | 2.026E-06 | 1200 |
| 92.0 | 327 | 1.165E-07 | 3.377E-07 | 1200 |
| 94.0 | 6 | 2.289E-09 | 6.638E-09 | 1200 |
| 96.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 9.020E-04 SEC/SQ.M 2.616E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 70.0 | 0 | 0. | 0. | 1200 |
| | 72.0 | 1 | 4.712E-10 | 1.178E-09 | 1200 |
| | 74.0 | 0 | 0. | 0. | 1200 |
| | 76.0 | 7 | 2.549E-09 | 6.371E-09 | 1200 |
| | 78.0 | 0 | 0. | 0. | 1200 |
| | 80.0 | 0 | 0. | 0. | 1200 |
| | 82.0 | 0 | 0. | 0. | 1200 |
| | 84.0 | 245 | 8.733E-08 | 2.183E-07 | 1200 |
| | 86.0 | 821 | 2.919E-07 | 7.296E-07 | 1200 |
| | 88.0 | 3163 | 1.124E-06 | 2.810E-06 | 1200 |
| S | 90.0 | 7670 | 2.725E-06 | 6.812E-06 | 1200 |
| | 92.0 | 11689 | 4.153E-06 | 1.038E-05 | 1200 |
| Z | 94.0 | 10593 | 3.763E-06 | 9.406E-06 | 1200 |
| Z | 96.0 | 5113 | 1.816E-06 | 4.541E-06 | 1200 |
| Z | 98.0 | 2467 | 8.765E-07 | 2.191E-06 | 1200 |
| Z | 100.0 | 1100 | 3.908E-07 | 9.770E-07 | 1200 |
| Z | 102.0 | 872 | 3.098E-07 | 7.746E-07 | 1200 |
| | 104.0 | 685 | 2.437E-07 | 6.092E-07 | 1200 |
| | 106.0 | 740 | 2.629E-07 | 6.574E-07 | 1200 |
| 9 | 108.0 | 595 | 2.115E-07 | 5.289E-07 | 1200 |
| | 110.0 | 0 | 0. | 0. | 1200 |
| 3 | 112.0 | 0 | 2.570E-10 | 6.425E-10 | 1200 |
| | 114.0 | 0 | 1.927E-10 | 4.819E-10 | 1200 |
| | 116.0 | 1 | 6.853E-10 | 1.713E-09 | 1200 |

CROSSWIND INTEGRATED= 6.811E-04 SEC/SQ.M 1.703E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 62.0 | 0 | 0. | 0. | 1600 |
| | 64.0 | 79 | 2.804E-08 | 8.132E-08 | 1600 |
| | 66.0 | 211 | 7.496E-08 | 2.174E-07 | 1600 |
| | 68.0 | 95 | 3.405E-08 | 9.874E-08 | 1600 |
| | 70.0 | 875 | 3.110E-07 | 9.019E-07 | 1600 |
| | 72.0 | 4234 | 1.504E-06 | 4.362E-06 | 1600 |
| | 74.0 | 2359 | 8.383E-07 | 2.431E-06 | 1600 |
| | 76.0 | 1015 | 3.608E-07 | 1.046E-06 | 1600 |
| | 78.0 | 565 | 2.009E-07 | 5.825E-07 | 1600 |
| | 80.0 | 3042 | 1.081E-06 | 3.135E-06 | 1600 |
| | 82.0 | 1477 | 5.248E-07 | 1.522E-06 | 1600 |
| | 84.0 | 1005 | 3.574E-07 | 1.036E-06 | 1600 |
| | 86.0 | 316 | 1.124E-07 | 3.261E-07 | 1600 |
| P | 88.0 | 2443 | 8.681E-07 | 2.517E-06 | 1600 |
| P | 90.0 | 1815 | 6.449E-07 | 1.870E-06 | 1600 |
| | 92.0 | 179 | 6.391E-08 | 1.850E-07 | 1600 |
| | 93.6 | 162 | 5.765E-08 | 1.672E-07 | 1603 |
| | 94.0 | 0 | 0. | 0. | 1600 |
| | 94.0 | 0 | 0. | 0. | 1604 |

CROSS-IND INTEGRATED= 3.925E-04 SEC/SQ.M 1.138E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 78.0 | 0 | 0. | 0. | 1600 |
| | 80.0 | 0 | 0. | 0. | 1600 |
| | 82.0 | 98 | 3.127E-08 | 7.817E-08 | 1600 |
| | 84.0 | 170 | 6.050E-08 | 1.513E-07 | 1600 |
| | 86.0 | 353 | 1.257E-07 | 3.143E-07 | 1600 |
| P | 88.0 | 1138 | 4.045E-07 | 1.011E-06 | 1600 |
| P | 90.0 | 5844 | 2.076E-06 | 5.191E-06 | 1600 |
| | 92.0 | 6027 | 2.141E-06 | 5.353E-06 | 1600 |
| | 93.6 | 8623 | 3.064E-06 | 7.659E-06 | 1603 |
| Z | 94.0 | 10046 | 3.569E-06 | 8.922E-06 | 1600 |
| | 94.6 | 10409 | 3.698E-06 | 9.245E-06 | 1604 |
| | 95.6 | 5945 | 2.112E-06 | 5.280E-06 | 1606 |
| | 96.6 | 3861 | 1.372E-06 | 3.430E-06 | 1608 |
| | 97.6 | 3564 | 1.266E-06 | 3.166E-06 | 1610 |
| | 98.6 | 1977 | 7.023E-07 | 1.756E-06 | 1611 |
| | 99.6 | 1183 | 4.204E-07 | 1.051E-06 | 1613 |
| | 100.6 | 1282 | 4.556E-07 | 1.139E-06 | 1615 |
| | 101.6 | 2225 | 7.904E-07 | 1.976E-06 | 1617 |
| | 102.6 | 890 | 3.163E-07 | 7.909E-07 | 1618 |
| | 103.6 | 1457 | 5.177E-07 | 1.294E-06 | 1620 |
| | 104.5 | 1292 | 4.590E-07 | 1.147E-06 | 1622 |
| | 105.5 | 311 | 1.108E-07 | 2.769E-07 | 1623 |
| | 106.5 | 583 | 2.073E-07 | 5.181E-07 | 1625 |
| | 107.5 | 583 | 2.073E-07 | 5.181E-07 | 1627 |
| | 108.5 | 0 | 0. | 0. | 1628 |
| | 109.5 | 0 | 8.391E-11 | 2.098E-10 | 1630 |

CROSSWIND INTEGRATED= 7.268E-04 SEC/SQ.M 1.817E-03 1/M

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TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 58.0 | 0 | 0. | 0. | 2200 |
| | 60.0 | 61 | 2.170E-08 | 6.293E-08 | 2200 |
| | 62.0 | 0 | 0. | 0. | 2200 |
| | 64.0 | 11 | 4.161E-09 | 1.207E-08 | 2200 |
| 4 | 66.0 | 18 | 6.539E-09 | 1.896E-08 | 2200 |
| | 68.0 | 0 | 0. | 0. | 2200 |
| | 70.0 | 353 | 1.256E-07 | 3.642E-07 | 2200 |
| | 72.0 | 2014 | 7.158E-07 | 2.076E-06 | 2200 |
| | 74.0 | 1514 | 5.382E-07 | 1.561E-06 | 2200 |
| E | 76.0 | 663 | 2.357E-07 | 6.836E-07 | 2200 |
| | 78.0 | 292 | 1.039E-07 | 3.013E-07 | 2200 |
| | 80.0 | 637 | 2.265E-07 | 6.568E-07 | 2200 |
| | 82.0 | 6692 | 2.377E-06 | 6.894E-06 | 2200 |
| | 84.0 | 268 | 9.527E-08 | 2.763E-07 | 2200 |
| | 86.0 | 607 | 2.156E-07 | 6.254E-07 | 2200 |
| | 88.0 | 319 | 1.134E-07 | 3.289E-07 | 2200 |
| | 90.0 | 102 | 3.656E-08 | 1.060E-07 | 2200 |
| | 92.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 3.699E-04 SEC/SQ.M 1.073E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 2 | 78.0 | 0 | 0. | 0. | 2200 |
| 2 | 80.0 | 47 | 1.702E-08 | 4.255E-08 | 2200 |
| 2 | 82.0 | 111 | 3.971E-08 | 9.928E-08 | 2200 |
| 3 | 84.0 | 288 | 1.025E-07 | 2.561E-07 | 2200 |
| 1 | 86.0 | 689 | 2.450E-07 | 6.124E-07 | 2200 |
| 2 | 88.0 | 2695 | 9.574E-07 | 2.394E-06 | 2200 |
| 2 | 90.0 | 4456 | 1.564E-06 | 3.960E-06 | 2200 |
| 3 | 92.0 | 7589 | 2.696E-06 | 6.740E-06 | 2200 |
| 2 | 94.0 | 8222 | 2.921E-06 | 7.302E-06 | 2200 |
| E | 96.0 | 2560 | 9.097E-07 | 2.274E-06 | 2200 |
| 0 | 98.0 | 689 | 2.450E-07 | 6.124E-07 | 2200 |
| 4 | 100.0 | 1024 | 3.641E-07 | 9.102E-07 | 2200 |
| 3 | 102.0 | 1643 | 5.837E-07 | 1.459E-06 | 2200 |
| 3 | 104.0 | 926 | 3.291E-07 | 8.226E-07 | 2200 |
| 4 | 106.0 | 571 | 2.029E-07 | 5.073E-07 | 2200 |
| 4 | 108.0 | 99 | 3.526E-08 | 8.816E-08 | 2200 |
| 3 | 110.0 | 74 | 2.636E-08 | 6.591E-08 | 2200 |
| E | 112.0 | 13 | 4.672E-09 | 1.168E-08 | 2200 |
| L | 114.0 | 1 | 7.008E-10 | 1.752E-09 | 2200 |
| 5 | 116.0 | 0 | 0. | 0. | 2200 |
| 5 | 118.0 | 0 | 1.335E-10 | 3.337E-10 | 2200 |
| 4 | 120.0 | 0 | 1.446E-10 | 3.615E-10 | 2200 |

CROSSWIND INTEGRATED= 8.650E-04 SEC/SQ.M 2.163E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 60.0 | 0 | 0. | 0. | 3200 |
| | 62.0 | 3 | 1.338E-09 | 3.679E-09 | 3200 |
| | 64.0 | 35 | 1.263E-08 | 3.664E-08 | 3200 |
| | 66.0 | 177 | 6.316E-08 | 1.832E-07 | 3200 |
| | 68.0 | 154 | 5.494E-08 | 1.590E-07 | 3200 |
| | 70.0 | 314 | 1.118E-07 | 3.241E-07 | 3200 |
| | 72.7 | 1625 | 5.775E-07 | 1.675E-06 | 3166 |
| | 73.7 | 2159 | 7.671E-07 | 2.225E-06 | 3170 |
| | 74.7 | 1979 | 7.032E-07 | 2.039E-06 | 3172 |
| | 75.7 | 2246 | 7.985E-07 | 2.314E-06 | 3173 |
| | 76.6 | 2250 | 7.995E-07 | 2.319E-06 | 3175 |
| | 77.8 | 2630 | 9.344E-07 | 2.710E-06 | 3177 |
| W | 78.8 | 8234 | 2.925E-06 | 8.464E-06 | 3179 |
| W | 79.8 | 4932 | 1.752E-06 | 5.081E-06 | 3180 |
| W | 80.8 | 7662 | 2.722E-06 | 7.894E-06 | 3182 |
| | 81.8 | 1588 | 5.643E-07 | 1.636E-06 | 3184 |
| | 82.8 | 549 | 1.952E-07 | 5.661E-07 | 3185 |
| | 83.8 | 349 | 1.242E-07 | 3.602E-07 | 3187 |
| | 84.8 | 478 | 1.698E-07 | 4.925E-07 | 3189 |
| | 85.8 | 680 | 2.416E-07 | 7.013E-07 | 3191 |
| | 86.8 | 79 | 2.839E-08 | 8.234E-08 | 3192 |
| | 87.8 | 119 | 4.259E-08 | 1.235E-07 | 3194 |
| | 88.8 | 69 | 2.464E-08 | 7.204E-08 | 3196 |
| | 89.8 | 87 | 3.093E-08 | 8.969E-08 | 3198 |
| | 90.8 | 22 | 8.112E-09 | 2.352E-08 | 3199 |
| | 91.8 | 0 | 0. | 0. | 3201 |

CROSSWIND INTEGRATED= 8.049E-04 SEC/SQ.M 2.334E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 75.8 | 0 | 0. | 0. | 3200 |
| | 76.8 | 0 | 1.138E-11 | 2.846E-11 | 3175 |
| | 77.8 | 33 | 1.207E-08 | 3.017E-08 | 3177 |
| | 78.8 | 36 | 1.283E-08 | 3.207E-08 | 3179 |
| W | 79.8 | 11 | 4.098E-09 | 1.025E-08 | 3180 |
| | 80.8 | 28 | 1.017E-08 | 2.542E-08 | 3182 |
| | 81.8 | 52 | 1.852E-08 | 4.630E-08 | 3184 |
| | 82.8 | 85 | 3.028E-08 | 7.571E-08 | 3185 |
| | 83.8 | 436 | 1.551E-07 | 3.878E-07 | 3187 |
| | 84.8 | 928 | 3.297E-07 | 8.242E-07 | 3189 |
| | 85.8 | 1479 | 5.255E-07 | 1.314E-06 | 3191 |
| | 86.8 | 2152 | 7.646E-07 | 1.911E-06 | 3192 |
| | 87.8 | 3229 | 1.147E-06 | 2.868E-06 | 3194 |
| | 88.8 | 4642 | 1.649E-06 | 4.123E-06 | 3196 |
| | 89.8 | 5393 | 1.916E-06 | 4.790E-06 | 3198 |
| | 90.8 | 5609 | 1.993E-06 | 4.981E-06 | 3199 |
| | 91.8 | 6148 | 2.184E-06 | 5.460E-06 | 3201 |
| | 92.8 | 5824 | 2.069E-06 | 5.173E-06 | 3203 |
| | 93.8 | 3363 | 1.195E-06 | 2.987E-06 | 3205 |
| | 94.8 | 1950 | 6.928E-07 | 1.732E-06 | 3206 |
| | 95.8 | 2825 | 1.004E-06 | 2.509E-06 | 3208 |
| | 96.8 | 2152 | 7.646E-07 | 1.911E-06 | 3210 |
| | 97.8 | 1367 | 4.857E-07 | 1.214E-06 | 3212 |
| | 98.8 | 2152 | 7.646E-07 | 1.911E-06 | 3213 |
| | 99.8 | 1389 | 4.936E-07 | 1.234E-06 | 3215 |
| | 100.8 | 1008 | 3.581E-07 | 8.954E-07 | 3217 |
| | 101.8 | 873 | 3.103E-07 | 7.758E-07 | 3218 |
| | 102.8 | 1344 | 4.777E-07 | 1.194E-06 | 3220 |
| | 103.8 | 783 | 2.785E-07 | 6.961E-07 | 3222 |

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| | | | | |
|---|---|---|---|---|
| 104.8 | 288 | 1.023E-07 | 2.559E-07 | 3224 |
| 105.8 | 479 | 1.703E-07 | 4.258E-07 | 3225 |
| 106.9 | 308 | 1.094E-07 | 2.740E-07 | 3227 |
| 107.8 | 500 | 1.779E-07 | 4.447E-07 | 3229 |
| 108.8 | 0 | 1.252E-10 | 3.131E-10 | 3230 |
| 109.7 | 0 | 5.692E-11 | 1.423E-10 | 3232 |
| 110.7 | 1 | 4.174E-10 | 1.044E-09 | 3233 |
| 111.7 | 0 | 1.450E-10 | 3.700E-10 | 3235 |
| 112.7 | 2 | 8.348E-10 | 2.087E-09 | 3237 |
| 113.7 | 2 | 7.590E-10 | 1.897E-09 | 3238 |
| 114.6 | 0 | 1.821E-10 | 4.554E-10 | 3240 |
| 5 115.6 | 2 | 1.025E-09 | 2.561E-09 | 3241 |
| 116.6 | 2 | 7.969E-10 | 1.992E-09 | 3243 |
| 117.6 | 26 | 9.411E-09 | 2.353E-08 | 3245 |
| 118.6 | 9 | 3.529E-09 | 8.823E-09 | 3246 |
| 119.5 | 2 | 9.487E-10 | 2.372E-09 | 3248 |
| 120.5 | 0 | 1.480E-10 | 3.700E-10 | [illegible] |
| 121.5 | 0 | 6.831E-11 | 1.708E-10 | [illegible] |

CROSSWIND INTEGRATED= 1.131E-03 SEC/SQ.M  2.827E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 1 82.0 | 550 | 1.954E-07 | 5.660E-07 | 4630 |
| 4 84.0 | 2073 | 7.366E-07 | 2.130E-06 | 4620 |
| 4 86.0 | 60 | 2.155E-08 | 6.250E-08 | 4610 |
| 4 88.0 | 8 | 2.972E-09 | 8.620E-09 | 4610 |
| 90.0 | 0 | 0. | 0. | 4610 |

CROSSWIND INTEGRATED= 1.543E-04 SEC/SQ.M  4.475E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 6 82.0 | 240 | 8.560E-08 | 2.143E-07 | 4630 |
| 4 84.0 | 796 | 2.795E-07 | 6.967E-07 | 4620 |
| 4 86.0 | 686 | 2.445E-07 | 6.111E-07 | 4610 |
| 4 88.0 | 964 | 3.424E-07 | 8.564E-07 | 4610 |
| 1 90.0 | 1510 | 5.365E-07 | 1.341E-06 | 4610 |
| 4 92.0 | 2036 | 7.233E-07 | 1.808E-06 | 4620 |
| 5 94.0 | 905 | 3.215E-07 | 8.039E-07 | 4620 |
| 4 96.0 | 865 | 3.075E-07 | 7.688E-07 | 4620 |
| 6 98.0 | 188 | 6.681E-08 | 1.670E-07 | 4660 |
| 2 100.0 | 284 | 1.026E-07 | 2.564E-07 | 4690 |
| 3 102.0 | 98 | 3.491E-08 | 8.727E-08 | 4710 |
| 3 104.0 | 1 | 5.[illegible]E-10 | 1.283E-09 | 4770 |
| 2 106.0 | 16 | 5.951E-09 | 1.488E-08 | 4810 |
| 2 108.0 | 0 | 6.674E-11 | 1.668E-10 | 4870 |

CROSSWIND INTEGRATED= 4.922E-04 SEC/SQ.M  1.231E-03 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 76.0 | 58 | 2.061E-08 | 6.034E-08 | 6260 |
| 78.0 | 39 | 1.412E-08 | 4.095E-08 | 6300 |
| C 80.0 | 253 | 9.016E-08 | 2.612E-07 | 6400 |
| 82.0 | 10 | 3.716E-09 | 1.078E-08 | 6490 |
| D 84.0 | 106 | 3.790E-08 | 1.099E-07 | 6500 |
| E 86.0 | 0 | 0. | 0. | 6500 |

CROSSWIND INTEGRATED= 3.723E-05 SEC/SQ.M  1.080E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 76.0 | 89 | 3.170E-08 | 7.926E-08 | 6260 |
| 3 78.0 | 108 | 3.871E-08 | 9.673E-08 | 6300 |
| C 80.0 | 107 | 3.801E-08 | 9.503E-08 | 6400 |
| 82.0 | 128 | 4.572E-08 | 1.143E-07 | 6490 |
| C 84.0 | 261 | 9.291E-08 | 2.323E-07 | 6500 |
| 5 86.0 | 287 | 1.023E-07 | 2.556E-07 | 6500 |
| E 88.0 | 557 | 1.960E-07 | 4.951E-07 | 6480 |
| 2 90.0 | 1083 | 3.849E-07 | 9.623E-07 | 6500 |
| 3 92.0 | 471 | 1.677E-07 | 4.192E-07 | 6490 |
| 4 94.0 | 268 | 9.524E-08 | 2.381E-07 | 6500 |
| 96.0 | 138 | 4.922E-08 | 1.231E-07 | 6510 |
| 98.0 | 35 | 1.246E-08 | 3.120E-08 | 6520 |
| 100.0 | 9 | 3.359E-09 | 8.399E-09 | 6560 |
| 102.0 | 1 | 6.674E-10 | 1.669E-09 | 6610 |

CROSSWIND INTEGRATED= 2.853E-04 SEC/SQ.M  7.132E-04 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 2.9 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.0 | 0 | 0. | 0. | 12800 |
| 92.0 | 0 | 0. | 0. | 12800 |
| 93.0 | 0 | 0. | 0. | 12800 |
| 94.0 | 0 | 0. | 0. | 12800 |
| 95.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M  0. 1/M

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 2.5 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 90.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M  0. 1/M

1202004



U7

SAMPLING 400M TO 7000M. NO TOWER SAMPLING.

5000M AND 7000M ARCS TRUNCATED ON NORTH.

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 62.0 | 0 | 0. | 0. | 400 |
| | 66.0 | 330 | 1.207E-07 | 7.844E-07 | 400 |
| | 70.0 | 6380 | 2.329E-06 | 1.514E-05 | 400 |
| | 74.0 | 24037 | 8.773E-06 | 5.702E-05 | 400 |
| | 78.0 | 12367 | 4.514E-06 | 2.934E-05 | 400 |
| | 82.0 | 17233 | 6.289E-06 | 4.088E-05 | 400 |
| | 86.0 | 25629 | 9.354E-06 | 6.080E-05 | 400 |
| | 90.0 | 16681 | 6.818E-06 | 4.432E-05 | 400 |
| P | 94.0 | 1400 | 5.112E-07 | 3.323E-06 | 400 |
| P | 98.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.081E-03 SEC/SQ.M 7.026E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 64.0 | 0 | 0. | 0. | 800 |
| 67.0 | 937 | 3.421E-07 | 2.224E-06 | 800 |
| 70.0 | 20596 | 7.517E-06 | 4.886E-05 | 800 |
| 73.0 | 46962 | 1.714E-05 | 1.114E-04 | 800 |
| 76.0 | 13047 | 4.762E-06 | 3.095E-05 | 800 |
| 79.0 | 6193 | 2.260E-06 | 1.469E-05 | 800 |
| 82.0 | 12155 | 4.436E-06 | 2.884E-05 | 800 |
| 85.0 | 19961 | 7.285E-06 | 4.735E-05 | 800 |
| 88.0 | 16038 | 5.853E-06 | 3.805E-05 | 800 |
| 91.0 | 4275 | 1.560E-06 | 1.014E-05 | 800 |
| 94.0 | 81 | 2.971E-08 | 1.931E-07 | 800 |
| 97.0 | 0 | 0. | 0. | 800 |

CROSSWIND INTEGRATED= 2.144E-03 SEC/SQ.M 1.394E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 64.0 | 0 | 0. | 0. | 1200 |
| 66.0 | 57 | 2.100E-08 | 1.365E-07 | 1200 |
| 68.0 | 3184 | 1.162E-06 | 7.556E-06 | 1200 |
| 70.0 | 20338 | 7.423E-06 | 4.825E-05 | 1200 |
| 72.0 | 32983 | 1.204E-05 | 7.824E-05 | 1200 |
| 74.0 | 20520 | 7.489E-06 | 4.868E-05 | 1200 |
| 76.0 | 4759 | 1.737E-06 | 1.129E-05 | 1200 |
| 78.0 | 4135 | 1.509E-06 | 9.810E-06 | 1200 |
| 80.0 | 5756 | 2.101E-06 | 1.366E-05 | 1200 |
| 82.0 | 6236 | 2.276E-06 | 1.479E-05 | 1200 |
| E 84.0 | 8964 | 3.272E-06 | 2.127E-05 | 1200 |
| E 86.0 | 11174 | 4.078E-06 | 2.651E-05 | 1200 |
| 88.0 | 9224 | 3.367E-06 | 2.188E-05 | 1200 |
| 90.0 | 3296 | 1.203E-06 | 7.821E-06 | 1200 |
| 92.0 | 345 | 1.260E-07 | 8.189E-07 | 1200 |
| 94.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.002E-03 SEC/SQ.M 1.302E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 62.0 | 0 | 0. | 0. | 400 |
| | 66.0 | 0 | 2.730E-10 | 1.938E-09 | 400 |
| | 70.0 | 3 | 1.237E-09 | 8.780E-09 | 400 |
| | 74.0 | 5 | 2.160E-09 | 1.534E-08 | 400 |
| | 78.0 | 0 | 1.526E-10 | 1.083E-09 | 400 |
| | 82.0 | 69 | 2.581E-08 | 1.832E-07 | 400 |
| | 86.0 | 765 | 2.844E-07 | 2.019E-06 | 400 |
| | 90.0 | 9 | 3.525E-09 | 2.503E-08 | 400 |
| E | 94.0 | 5 | 2.080E-09 | 1.477E-08 | 400 |
| E | 98.0 | 4 | 1.598E-09 | 1.135E-08 | 400 |
| E | 102.0 | 5 | 2.080E-09 | 1.477E-08 | 400 |
| E | 106.0 | 9 | 3.405E-09 | 2.417E-08 | 400 |
| | 110.0 | 38 | 1.417E-08 | 1.006E-07 | 400 |
| | 114.0 | 5 | 2.200E-09 | 1.562E-08 | 400 |
| | 118.0 | 2 | 8.753E-10 | 6.215E-09 | 400 |
| | 122.0 | 5 | 1.959E-09 | 1.391E-08 | 400 |

CROSSWIND INTEGRATED= 9.659E-06 SEC/SQ.M 6.858E-05 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 67.0 | 0 | 2.811E-11 | 1.996E-10 | 800 |
| 70.0 | 725 | 2.695E-07 | 1.913E-06 | 800 |
| 73.0 | 2654 | 9.862E-07 | 7.002E-06 | 800 |
| 76.0 | 6658 | 2.473E-06 | 1.756E-05 | 800 |
| 79.0 | 1519 | 5.646E-07 | 4.008E-06 | 800 |
| 82.0 | 997 | 3.706E-07 | 2.632E-06 | 800 |
| 85.0 | 5239 | 1.946E-06 | 1.382E-05 | 800 |
| 88.0 | 9824 | 3.649E-06 | 2.591E-05 | 800 |
| 91.0 | 1837 | 6.826E-07 | 4.847E-06 | 800 |
| 94.0 | 99 | 3.698E-08 | 2.626E-07 | 800 |
| 97.0 | 2 | 7.669E-10 | 5.445E-09 | 800 |
| 97.1 | 0 | 2.262E-10 | 1.606E-09 | 806 |
| 99.1 | 0 | 1.863E-10 | 1.323E-09 | 809 |

CROSSWIND INTEGRATED= 4.599E-04 SEC/SQ.M 3.265E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 66.0 | 0 | 0. | 0. | 1200 |
| 68.0 | 14 | 5.372E-09 | 3.814E-08 | 1200 |
| 70.0 | 619 | 2.302E-07 | 1.635E-06 | 1200 |
| 72.0 | 5190 | 1.928E-06 | 1.369E-05 | 1200 |
| 74.0 | 7123 | 2.646E-06 | 1.879E-05 | 1200 |
| 76.0 | 6758 | 2.510E-06 | 1.782E-05 | 1200 |
| 78.0 | 6027 | 2.239E-06 | 1.590E-05 | 1200 |
| 80.0 | 2506 | 9.309E-07 | 6.610E-06 | 1200 |
| 82.0 | 3291 | 1.223E-06 | 8.680E-06 | 1200 |
| E 84.0 | 6835 | 2.539E-06 | 1.803E-05 | 1200 |
| E 86.0 | 13394 | 4.976E-06 | 3.533E-05 | 1200 |
| 88.0 | 9498 | 3.528E-06 | 2.505E-05 | 1200 |
| 90.0 | 2620 | 9.733E-07 | 6.910E-06 | 1200 |
| 92.0 | 1290 | 4.795E-07 | 3.404E-06 | 1200 |
| 94.0 | 22 | 8.264E-09 | 5.868E-08 | 1200 |
| 96.0 | 0 | 2.441E-10 | 1.733E-09 | 1200 |
| 98.0 | 1 | 3.765E-10 | 2.687E-09 | 1200 |
| 100.0 | 0 | 1.030E-10 | 7.314E-10 | 1200 |

CROSSWIND INTEGRATED= 1.014E-03 SEC/SQ.M 7.202E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0235 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 64.0 | 0 | 0. | 0. | 1600 |
| | 66.0 | 65 | 3.104E-08 | 2.020E-07 | 1600 |
| | 68.0 | 2274 | 8.301E-07 | 5.395E-06 | 1600 |
| | 70.0 | 21261 | 7.760E-06 | 5.044E-05 | 1600 |
| | 72.0 | 32187 | 1.175E-05 | 7.636E-05 | 1600 |
| | 74.0 | 16068 | 5.865E-06 | 3.812E-05 | 1600 |
| | 76.0 | 4877 | 1.760E-06 | 1.157E-05 | 1600 |
| | 78.0 | 4180 | 1.526E-06 | 9.916E-06 | 1600 |
| | 80.0 | 5476 | 1.999E-06 | 1.299E-05 | 1600 |
| | 82.0 | 5291 | 1.931E-06 | 1.255E-05 | 1600 |
| W | 84.0 | 6054 | 2.210E-06 | 1.436E-05 | 1600 |
| W | 86.0 | 7928 | 2.894E-06 | 1.881E-05 | 1600 |
| | 88.0 | 4777 | 1.744E-06 | 1.133E-05 | 1600 |
| | 90.0 | 1377 | 5.028E-07 | 3.268E-06 | 1600 |
| | 92.0 | 1 | 5.579E-10 | 3.632E-09 | 1600 |
| | 94.0 | 0 | 0. | 0. | 1600 |

CROSSWIND INTEGRATED= 2.230E-03 SEC/SQ.M 1.482E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 62.0 | 0 | 0. | 0. | 2200 |
| | 64.0 | 3 | 1.374E-09 | 8.932E-09 | 2200 |
| | 66.0 | 126 | 4.626E-08 | 3.007E-07 | 2200 |
| | 68.0 | 1240 | 4.527E-07 | 2.943E-06 | 2200 |
| | 70.0 | 11437 | 4.174E-06 | 2.713E-05 | 2200 |
| | 72.0 | 14066 | 5.134E-06 | 3.237E-05 | 2200 |
| | 74.0 | 2714 | 9.908E-07 | 6.440E-06 | 2200 |
| | 76.0 | 3269 | 1.193E-06 | 7.755E-06 | 2200 |
| 3 | 78.0 | 1415 | 5.167E-07 | 3.359E-06 | 2200 |
| | 80.0 | 949 | 3.465E-07 | 2.252E-06 | 2200 |
| | 82.0 | 963 | 3.515E-07 | 2.285E-06 | 2200 |
| | 84.0 | 1002 | 3.660E-07 | 2.379E-06 | 2200 |
| | 86.0 | 1219 | 4.452E-07 | 2.894E-06 | 2200 |
| Z | 88.0 | 49 | 1.817E-08 | 1.181E-07 | 2200 |
| | 90.0 | 6 | 2.290E-09 | 1.489E-08 | 2200 |
| | 92.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.078E-03 SEC/SQ.M 7.006E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 68.0 | 0 | 4.703E-11 | 3.339E-10 | 1600 |
| | 70.0 | 403 | 1.498E-07 | 1.064E-06 | 1600 |
| Z | 72.0 | 3924 | 1.458E-06 | 1.035E-05 | 1600 |
| Z | 74.0 | 5696 | 2.116E-06 | 1.502E-05 | 1600 |
| | 76.0 | 11324 | 4.207E-06 | 2.987E-05 | 1600 |
| | 78.0 | 5662 | 2.103E-06 | 1.493E-05 | 1600 |
| | 80.0 | 4050 | 1.505E-06 | 1.068E-05 | 1600 |
| Z | 82.0 | 3670 | 1.364E-06 | 9.682E-06 | 1600 |
| W | 84.0 | 5063 | 1.881E-06 | 1.335E-05 | 1600 |
| W | 86.0 | 8950 | 3.325E-06 | 2.361E-05 | 1600 |
| | 88.0 | 7089 | 2.633E-06 | 1.870E-05 | 1600 |
| | 90.0 | 2506 | 9.309E-07 | 6.610E-06 | 1600 |
| | 92.0 | 31 | 1.165E-08 | 8.270E-08 | 1600 |
| E | 93.6 | 4 | 1.755E-09 | 1.246E-08 | 1600 |
| E | 94.0 | 1 | 5.173E-10 | 3.673E-09 | 1600 |

CROSSWIND INTEGRATED= 1.211E-03 SEC/SQ.M 8.598E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 66.0 | 0 | 0. | 0. | 2200 |
| | 68.0 | 0 | 3.141E-10 | 2.230E-09 | 2200 |
| | 70.0 | 532 | 1.977E-07 | 1.403E-06 | 2200 |
| | 72.0 | 2827 | 1.050E-06 | 7.456E-06 | 2200 |
| | 74.0 | 4269 | 1.586E-06 | 1.126E-05 | 2200 |
| | 76.0 | 6166 | 2.291E-06 | 1.626E-05 | 2200 |
| 3 | 78.0 | 4838 | 1.797E-06 | 1.276E-05 | 2200 |
| | 80.0 | 2366 | 8.792E-07 | 6.242E-06 | 2200 |
| | 82.0 | 1400 | 5.201E-07 | 3.693E-06 | 2200 |
| | 84.0 | 2301 | 8.548E-07 | 6.069E-06 | 2200 |
| | 86.0 | 3794 | 1.410E-06 | 1.001E-05 | 2200 |
| Z | 88.0 | 196 | 7.307E-08 | 5.188E-07 | 2200 |
| | 90.0 | 21 | 7.817E-09 | 5.550E-08 | 2200 |
| | 92.0 | 0 | 1.163E-10 | 8.259E-10 | 2200 |
| X | 94.0 | 4 | 1.501E-09 | 1.065E-08 | 2200 |
| S | 96.0 | 0 | 3.257E-10 | 2.313E-09 | 2200 |

CROSSWIND INTEGRATED= 8.193E-04 SEC/SQ.M 5.817E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 64.0 | 0 | 0. | 0. | 3200 |
| 66.0 | 56 | 2.077E-08 | 1.350E-07 | 3200 |
| 68.0 | 1756 | 6.411E-07 | 4.167E-06 | 3200 |
| 70.0 | 7310 | 2.668E-06 | 1.734E-05 | 3200 |
| 72.7 | 10049 | 3.668E-06 | 2.384E-05 | 3168 |
| 73.7 | 12097 | 4.415E-06 | 2.870E-05 | 3170 |
| 74.7 | 8993 | 3.282E-06 | 2.134E-05 | 3172 |
| 75.7 | 6479 | 2.365E-06 | 1.537E-05 | 3173 |
| 76.8 | 4380 | 1.599E-06 | 1.039E-05 | 3175 |
| 77.8 | 2535 | 9.253E-07 | 6.014E-06 | 3177 |
| 78.8 | 1537 | 5.611E-07 | 3.647E-06 | 3179 |
| 79.8 | 1075 | 3.925E-07 | 2.552E-06 | 3180 |
| 80.8 | 1410 | 5.147E-07 | 3.346E-06 | 3182 |
| 81.8 | 1079 | 3.940E-07 | 2.561E-06 | 3184 |
| 82.8 | 2026 | 7.396E-07 | 4.808E-06 | 3185 |
| 83.8 | 1672 | 6.104E-07 | 3.967E-06 | 3187 |
| 84.8 | 704 | 2.571E-07 | 1.671E-06 | 3189 |
| 85.8 | 416 | 1.520E-07 | 9.880E-07 | 3191 |
| 86.8 | 49 | 1.799E-08 | 1.170E-07 | 3192 |
| 87.8 | 0 | 0. | 0. | 3194 |

CROSSWIND INTEGRATED= 1.709E-03 SEC/SQ.M 1.111E-02 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 66.0 | 0 | 0. | 0. | 3200 |
| 68.0 | 40 | 1.487E-08 | 1.056E-07 | 3200 |
| 70.0 | 473 | 1.757E-07 | 1.248E-06 | 3200 |
| 72.7 | 3027 | 1.125E-06 | 7.985E-06 | 3168 |
| 73.7 | 5382 | 2.000E-06 | 1.420E-05 | 3170 |
| 74.7 | 6504 | 2.416E-06 | 1.716E-05 | 3172 |
| 75.7 | 6728 | 2.500E-06 | 1.775E-05 | 3173 |
| 76.8 | 7401 | 2.750E-06 | 1.952E-05 | 3175 |
| 77.8 | 6055 | 2.250E-06 | 1.597E-05 | 3177 |
| Z 78.3 | 6055 | 2.250E-06 | 1.597E-05 | 3179 |
| 79.8 | 2421 | 8.996E-07 | 6.387E-06 | 3180 |
| 80.8 | 2018 | 7.496E-07 | 5.322E-06 | 3182 |
| 81.8 | 2354 | 8.746E-07 | 6.210E-06 | 3184 |
| 82.8 | 2892 | 1.075E-06 | 7.630E-06 | 3185 |
| 83.8 | 4104 | 1.525E-06 | 1.082E-05 | 3187 |
| 84.8 | 2960 | 1.100E-06 | 7.807E-06 | 3189 |
| 85.8 | 1524 | 5.663E-07 | 4.021E-06 | 3191 |
| 86.8 | 640 | 2.378E-07 | 1.688E-06 | 3192 |
| 87.8 | 95 | 3.538E-08 | 2.512E-07 | 3194 |
| 88.8 | 1 | 6.984E-10 | 4.959E-09 | 3196 |
| 89.8 | 2 | 9.762E-10 | 6.931E-09 | 3198 |
| 90.8 | 0 | 0. | 0. | 3199 |

CROSSWIND INTEGRATED= 1.332E-03 SEC/SQ.M 9.456E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 366 | 1.338E-07 | 8.694E-07 | 4630 |
| 84.0 | 107 | 3.939E-08 | 2.561E-07 | 4620 |
| 86.0 | 5 | 1.985E-09 | 1.290E-08 | 4610 |
| 88.0 | 5 | 2.138E-09 | 1.389E-08 | 4610 |
| 90.0 | 12 | 4.428E-09 | 2.879E-08 | 4610 |
| 92.0 | 3 | 1.374E-09 | 8.932E-09 | 4620 |
| 94.0 | 3 | 1.222E-09 | 7.940E-09 | 4620 |
| 96.0 | 2 | 1.069E-09 | 6.947E-09 | 4620 |
| 98.0 | 3 | 1.374E-09 | 8.932E-09 | 4660 |
| 100.0 | 5 | 1.985E-09 | 1.290E-08 | 4690 |
| 102.0 | 0 | 0. | 0. | 4710 |

CROSSWIND INTEGRATED= 3.049E-05 SEC/SQ.M 1.982E-04 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 1577 | 5.860E-07 | 4.161E-06 | 4630 |
| 84.0 | 159 | 5.912E-08 | 4.197E-07 | 4620 |
| 86.0 | 5 | 2.024E-09 | 1.437E-08 | 4610 |
| 88.0 | 0 | 8.143E-11 | 5.781E-10 | 4610 |
| 90.0 | 0 | 1.512E-10 | 1.074E-09 | 4610 |

CROSSWIND INTEGRATED= 1.046E-04 SEC/SQ.M 7.427E-04 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| L 76.0 | 2540 | 9.273E-07 | 6.027E-06 | 6280 |
| 78.0 | 2552 | 9.314E-07 | 6.054E-06 | 6300 |
| 80.0 | 4414 | 1.611E-06 | 1.047E-05 | 6400 |
| 82.0 | 3793 | 1.384E-06 | 8.999E-06 | 6490 |
| 84.0 | 821 | 2.997E-07 | 1.948E-06 | 6500 |
| 86.0 | 666 | 2.432E-07 | 1.581E-06 | 6500 |
| 88.0 | 0 | 0. | 0. | 6480 |
| 90.0 | 399 | 1.460E-07 | 9.486E-07 | 6500 |
| 92.0 | 5 | 1.832E-09 | 1.191E-08 | 6490 |
| 94.0 | 0 | 0. | 0. | 6500 |
| 96.0 | 0 | 0. | 0. | 6510 |
| 98.0 | 0 | 0. | 0. | 6520 |
| 104.0 | 0 | 0. | 0. | 6650 |
| 114.0 | 0 | 0. | 0. | 7210 |
| 120.0 | 0 | 0. | 0. | 7150 |

CROSSWIND INTEGRATED= 1.238E-03 SEC/SQ.M 8.049E-03 1/M

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| R 76.0 | 41 | 1.553E-08 | 1.103E-07 | 6280 |
| 78.0 | 571 | 2.122E-07 | 1.506E-06 | 6300 |
| 80.0 | 1708 | 6.348E-07 | 4.507E-06 | 6400 |
| 82.0 | 3024 | 1.123E-06 | 7.970E-06 | 6490 |
| S 84.0 | 2037 | 7.569E-07 | 5.374E-06 | 6500 |
| 86.0 | 1399 | 5.200E-07 | 3.692E-06 | 6500 |
| P 88.0 | 2 | 7.503E-10 | 5.327E-09 | 6480 |
| 90.0 | 406 | 1.511E-07 | 1.073E-06 | 6500 |
| 92.0 | 3 | 1.361E-09 | 9.663E-09 | 6490 |
| 94.0 | 0 | 5.816E-11 | 4.129E-10 | 6500 |

CROSSWIND INTEGRATED= 7.708E-04 SEC/SQ.M 5.473E-03 1/M

1202807



U76

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. EXTREME SHIFT IN PLUME CENTERLINE LOCATION STARTING ABOUT 1600M. THE PLUME CENTERLINE SHIFT CAUSED TRUNCATION OR "MISSED PLUME" ON 1200, 3200, 5000, 7000 AND 12800M ARCS. FLUORESCEIN WAS NOT ASSAYED FAR ENOUGH NORTH ON THE 1600M ARC TO BE SURE OF TRUNCATION.

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 46.0 | 2 | 1.036E-09 | 3.731E-09 | 400 |
| 50.0 | 2 | 1.036E-09 | 3.731E-09 | 400 |
| 54.0 | 0 | 0. | 0. | 400 |
| 58.0 | 0 | 0. | 0. | 400 |
| 62.0 | 0 | 0. | 0. | 400 |
| 70.0 | 5 | 2.073E-09 | 7.462E-09 | 400 |
| 78.0 | 2 | 1.036E-09 | 3.731E-09 | 400 |
| 90.0 | 0 | 0. | 0. | 400 |
| 94.0 | 0 | 0. | 0. | 400 |
| 98.0 | 0 | 0. | 0. | 400 |
| 102.0 | 3472 | 1.308E-06 | 4.710E-06 | 400 |
| 106.0 | 17189 | 6.477E-06 | 2.332E-05 | 400 |
| 110.0 | 24173 | 9.108E-06 | 3.279E-05 | 400 |
| 114.0 | 11674 | 4.399E-06 | 1.584E-05 | 400 |
| 118.0 | 5457 | 2.056E-06 | 7.402E-06 | 400 |
| 122.0 | 3325 | 1.253E-06 | 4.511E-06 | 400 |
| 126.0 | 1 | 5.182E-10 | 1.866E-09 | 400 |

CROSSWIND INTEGRATED= 6.873E-04 SEC/SQ.M 2.474E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 3 | 1.227E-09 | 4.540E-09 | 400 |
| 90.0 | 6 | 2.296E-09 | 8.493E-09 | 400 |
| 94.0 | 0 | 0. | 0. | 400 |
| 98.0 | 12 | 4.551E-09 | 1.684E-08 | 400 |
| 102.0 | 0 | 3.166E-10 | 1.172E-09 | 400 |
| 106.0 | 2040 | 7.472E-07 | 2.765E-06 | 400 |
| 110.0 | 1019 | 3.732E-07 | 1.381E-06 | 400 |
| 114.0 | 3811 | 1.396E-06 | 5.163E-06 | 400 |
| 118.0 | 2108 | 7.722E-07 | 2.857E-06 | 400 |
| 122.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 9.206E-05 SEC/SQ.M 3.406E-04 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 1 | 5.182E-10 | 1.866E-09 | 800 |
| 97.0 | 60 | 2.260E-08 | 8.206E-08 | 800 |
| 97.1 | 0 | 0. | 0. | 806 |
| 99.1 | 34 | 1.311E-08 | 4.721E-08 | 809 |
| 101.1 | 1840 | 6.933E-07 | 2.496E-06 | 813 |
| 103.0 | 7782 | 2.932E-06 | 1.056E-05 | 816 |
| 105.0 | 20450 | 7.706E-06 | 2.774E-05 | 820 |
| 106.9 | 29268 | 1.103E-05 | 3.970E-05 | 823 |
| 108.8 | 38212 | 1.440E-05 | 5.183E-05 | 826 |
| 110.7 | 24952 | 9.402E-06 | 3.385E-05 | 829 |
| 112.6 | 10579 | 3.986E-06 | 1.435E-05 | 833 |
| 114.5 | 27750 | 1.046E-05 | 3.764E-05 | 836 |
| 116.4 | 33344 | 1.256E-05 | 4.523E-05 | 839 |
| 118.3 | 34040 | 1.283E-05 | 4.617E-05 | 842 |
| 120.2 | 32074 | 1.209E-05 | 4.351E-05 | 845 |
| 122.1 | 9292 | 3.501E-06 | 1.260E-05 | 848 |
| 124.0 | 69 | 2.623E-08 | 9.441E-08 | 851 |
| 125.9 | 0 | 0. | 0. | 854 |

CROSSWIND INTEGRATED= 2.816E-03 SEC/SQ.M 1.014E-02 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.1 | 0 | 0. | 0. | 800 |
| 101.1 | 0 | 0. | 0. | 813 |
| 103.0 | 317 | 1.163E-07 | 4.304E-07 | 816 |
| 105.0 | 739 | 2.710E-07 | 1.003E-06 | 820 |
| Z 106.9 | 6313 | 2.312E-06 | 8.554E-06 | 823 |
| 108.8 | 9021 | 3.303E-06 | 1.222E-05 | 826 |
| 110.7 | 5260 | 1.926E-06 | 7.127E-06 | 829 |
| 112.6 | 8569 | 3.138E-06 | 1.161E-05 | 833 |
| Z 114.5 | 4357 | 1.596E-06 | 5.904E-06 | 836 |
| 116.4 | 6087 | 2.229E-06 | 8.248E-06 | 839 |
| 118.3 | 17294 | 6.333E-06 | 2.343E-05 | 842 |
| 120.2 | 12857 | 4.708E-06 | 1.742E-05 | 845 |
| 122.1 | 785 | 2.875E-07 | 1.064E-06 | 848 |
| 124.0 | 37 | 1.364E-08 | 5.047E-08 | 851 |
| 125.8 | 296 | 1.085E-07 | 4.013E-07 | 854 |
| 127.7 | 0 | 6.557E-11 | 2.426E-10 | 857 |

CROSSWIND INTEGRATED= 7.305E-04 SEC/SQ.M 2.703E-03 1/M



U7

1202808

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| P | 48.0 | 42 | 1.608E-08 | 5.790E-08 | 1200 |
| | 50.0 | 29 | 1.123E-08 | 4.042E-08 | 1200 |
| | 52.0 | 22 | 8.497E-09 | 3.059E-08 | 1200 |
| | 54.0 | 11 | 4.249E-09 | 1.530E-08 | 1200 |
| | 56.0 | 25 | 9.711E-09 | 3.496E-08 | 1200 |
| | 58.0 | 14 | 5.463E-09 | 1.967E-08 | 1200 |
| | 60.0 | 12 | 4.856E-09 | 1.748E-08 | 1200 |
| | 62.0 | 24 | 9.104E-09 | 3.278E-08 | 1200 |
| | 64.0 | 35 | 1.335E-08 | 4.807E-08 | 1200 |
| | 66.0 | 0 | 0. | 0. | 1200 |
| | 68.0 | 12 | 4.856E-09 | 1.748E-08 | 1200 |
| | 70.0 | 28 | 1.093E-08 | 3.933E-08 | 1200 |
| | 72.0 | 5 | 2.124E-09 | 7.648E-09 | 1200 |
| | 74.0 | 0 | 0. | 0. | 1200 |
| | 76.0 | 0 | 0. | 0. | 1200 |
| | 78.0 | 0 | 0. | 0. | 1200 |
| | 80.0 | 0 | 0. | 0. | 1200 |
| | 82.0 | 0 | 0. | 0. | 1200 |
| | 84.0 | 0 | 0. | 0. | 1200 |
| | 86.0 | 1 | 6.070E-10 | 2.185E-09 | 1200 |
| | 88.0 | 0 | 0. | 0. | 1200 |
| | 90.0 | 0 | 0. | 0. | 1200 |
| | 92.0 | 0 | 0. | 0. | 1200 |
| | 94.0 | 0 | 0. | 0. | 1200 |
| | 96.0 | 11 | 4.249E-09 | 1.530E-08 | 1200 |
| | 98.0 | 13 | 5.159E-09 | 1.857E-08 | 1200 |
| | 100.0 | 108 | 4.097E-08 | 1.475E-07 | 1200 |
| | 102.0 | 838 | 3.159E-07 | 1.137E-06 | 1200 |
| | 104.0 | 2895 | 1.091E-06 | 3.928E-06 | 1200 |
| | 106.0 | 13979 | 5.267E-06 | 1.896E-05 | 1200 |
| 4 | 108.0 | 13653 | 5.144E-06 | 1.852E-05 | 1200 |
| | 110.0 | 23128 | 8.714E-06 | 3.137E-05 | 1200 |
| | 112.0 | 15563 | 5.864E-06 | 2.111E-05 | 1200 |
| | 114.0 | 15201 | 5.728E-06 | 2.062E-05 | 1200 |
| | 116.0 | 20379 | 7.679E-06 | 2.764E-05 | 1200 |
| | 118.0 | 33300 | 1.255E-05 | 4.517E-05 | 1200 |
| | 120.0 | 14286 | 5.383E-06 | 1.938E-05 | 1200 |
| | 122.0 | 1879 | 7.083E-07 | 2.550E-06 | 1200 |
| X | 124.0 | 0 | 0. | 0. | 1200 |
| X | 126.0 | 0 | 0. | 0. | 1200 |
| | 128.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.454E-03 SEC/SQ.M 8.836E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 60 | 2.219E-08 | 8.208E-08 | 1200 |
| | 52.0 | 35 | 1.313E-08 | 4.860E-08 | 1200 |
| | 56.0 | 49 | 1.821E-08 | 6.738E-08 | 1200 |
| | 62.0 | 35 | 1.313E-08 | 4.860E-08 | 1200 |
| | 70.0 | 17 | 6.291E-09 | 2.328E-08 | 1200 |
| | 80.0 | 10 | 3.641E-09 | 1.421E-08 | 1200 |
| | 82.0 | 1 | 4.636E-10 | 1.715E-09 | 1200 |
| | 84.0 | 3 | 1.148E-09 | 4.247E-09 | 1200 |
| | 86.0 | 0 | 2.207E-10 | 8.168E-10 | 1200 |
| | 88.0 | 0 | 0. | 0. | 1200 |
| | 90.0 | 0 | 0. | 0. | 1200 |
| | 92.0 | 0 | 2.207E-10 | 8.168E-10 | 1200 |
| | 94.0 | 0 | 1.324E-11 | 4.901E-11 | 1200 |
| | 96.0 | 0 | 0. | 0. | 1200 |
| | 98.0 | 2 | 8.388E-10 | 3.104E-09 | 1200 |
| | 100.0 | 0 | 6.622E-11 | 2.450E-10 | 1200 |
| | 102.0 | 0 | 2.649E-11 | 9.801E-11 | 1200 |
| | 104.0 | 44 | 1.622E-08 | 6.003E-08 | 1200 |
| L | 106.0 | 1204 | 4.411E-07 | 1.632E-06 | 1200 |
| 4 | 108.0 | 8219 | 3.010E-06 | 1.114E-05 | 1200 |
| | 110.0 | 16439 | 6.019E-06 | 2.227E-05 | 1200 |
| 3 | 112.0 | 10228 | 3.745E-06 | 1.386E-05 | 1200 |
| | 114.0 | 6392 | 2.341E-06 | 8.661E-06 | 1200 |
| | 116.0 | 5296 | 1.939E-06 | 7.176E-06 | 1200 |
| | 118.0 | 16357 | 5.990E-06 | 2.216E-05 | 1200 |
| 3 | 120.0 | 5844 | 2.140E-06 | 7.918E-06 | 1200 |
| | 122.0 | 185 | 6.810E-08 | 2.520E-07 | 1200 |
| X | 124.0 | 3 | 1.126E-09 | 4.165E-09 | 1200 |
| X | 126.0 | 0 | 1.126E-10 | 4.165E-10 | 1200 |
| | 128.0 | 4 | 1.523E-09 | 5.636E-09 | 1200 |

CROSSWIND INTEGRATED= 1.066E-03 SEC/SQ.M 4.017E-03 1/M



U77 1202809

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
160OM ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 48.0 | 0 | 0. | 0. | 1600 |
| | 52.0 | 0 | 0. | 0. | 1600 |
| | 56.0 | 0 | 0. | 0. | 1600 |
| | 60.0 | 0 | 0. | 0. | 1600 |
| | 64.0 | 1 | 6.070E-10 | 2.185E-09 | 1600 |
| | 68.0 | 0 | 0. | 0. | 1600 |
| | 72.0 | 0 | 0. | 0. | 1600 |
| | 76.0 | 0 | 3.035E-10 | 1.093E-09 | 1600 |
| | 80.0 | 3 | 1.214E-09 | 4.370E-09 | 1600 |
| | 84.0 | 0 | 0. | 0. | 1600 |
| | 86.0 | 39 | 1.487E-08 | 5.353E-08 | 1600 |
| | 88.0 | 33 | 1.275E-08 | 4.589E-08 | 1600 |
| | 90.0 | 95 | 3.581E-08 | 1.289E-07 | 1600 |
| | 92.0 | 31 | 1.164E-08 | 4.261E-08 | 1600 |
| E | 93.6 | 150 | 5.662E-08 | 2.038E-07 | 1603 |
| | 94.0 | 37 | 1.396E-08 | 5.026E-08 | 1600 |
| | 94.6 | 264 | 9.966E-08 | 3.588E-07 | 1604 |
| | 95.6 | 147 | 5.549E-08 | 1.998E-07 | 1606 |
| | 96.6 | 108 | 4.077E-08 | 1.468E-07 | 1608 |
| | 97.6 | 81 | 3.056E-08 | 1.101E-07 | 1610 |
| | 98.6 | 288 | 1.087E-07 | 3.914E-07 | 1611 |
| | 99.6 | 159 | 6.002E-08 | 2.161E-07 | 1613 |
| | 100.6 | 399 | 1.506E-07 | 5.422E-07 | 1615 |
| | 101.6 | 162 | 6.115E-08 | 2.201E-07 | 1617 |
| | 102.6 | 444 | 1.676E-07 | 6.034E-07 | 1618 |
| | 103.6 | 510 | 1.925E-07 | 6.931E-07 | 1620 |
| | 104.5 | 937 | 3.533E-07 | 1.272E-06 | 1622 |
| | 105.5 | 2473 | 9.320E-07 | 3.355E-06 | 1623 |
| | 106.5 | 6197 | 2.335E-06 | 8.406E-06 | 1625 |
| | 107.5 | 9216 | 3.699E-06 | 1.331E-05 | 1627 |
| | 108.5 | 17994 | 6.780E-06 | 2.441E-05 | 1628 |
| | 109.5 | 23388 | 8.813E-06 | 3.173E-05 | 1630 |
| | 110.4 | 30235 | 1.139E-05 | 4.101E-05 | 1632 |
| | 111.4 | 23016 | 8.672E-06 | 3.122E-05 | 1633 |
| | 112.4 | 25617 | 9.728E-06 | 3.502E-05 | 1635 |
| | 113.4 | 24765 | 9.331E-06 | 3.359E-05 | 1637 |
| | 114.4 | 26166 | 9.859E-06 | 3.549E-05 | 1638 |
| | 115.3 | 37352 | 1.407E-05 | 5.067E-05 | 1640 |
| | 116.3 | 40069 | 1.510E-05 | 5.435E-05 | 1641 |
| | 117.3 | 44842 | 1.690E-05 | 6.083E-05 | 1643 |
| | 118.2 | 34268 | 1.291E-05 | 4.646E-05 | 1644 |
| | 119.2 | 14826 | 5.586E-06 | 2.011E-05 | 1646 |
| | 120.2 | 5169 | 1.948E-06 | 7.012E-06 | 1647 |
| | 121.2 | 1927 | 6.865E-07 | 2.479E-06 | 1649 |
| | 122.1 | 198 | 5.209E-08 | 1.875E-07 | 1650 |
| | 124.1 | 0 | 0. | 0. | 1652 |

CROSSWIND INTEGRATED= 3.902E-03 SEC/SQ.M 1.405E-02 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
160OM ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 100.6 | 0 | 0. | 0. | 1600 |
| | 101.6 | 0 | 0. | 0. | 1617 |
| | 102.6 | 217 | 7.957E-08 | 2.944E-07 | 1618 |
| | 103.6 | 82 | 3.027E-08 | 1.120E-07 | 1620 |
| | 104.5 | 0 | 1.730E-11 | 6.400E-11 | 1622 |
| | 105.5 | 0 | 9.514E-11 | 3.520E-10 | 1623 |
| | 106.5 | 472 | 1.730E-07 | 6.400E-07 | 1625 |
| | 107.5 | 309 | 1.133E-07 | 4.192E-07 | 1627 |
| | 108.5 | 1237 | 4.532E-07 | 1.677E-06 | 1628 |
| | 109.5 | 4015 | 1.470E-06 | 5.440E-06 | 1630 |
| Z | 110.4 | 14382 | 5.266E-06 | 1.949E-05 | 1632 |
| | 111.4 | 15374 | 5.630E-06 | 2.083E-05 | 1633 |
| | 112.4 | 22319 | 8.173E-06 | 3.024E-05 | 1635 |
| | 113.4 | 14382 | 5.266E-06 | 1.949E-05 | 1637 |
| | 114.4 | 7438 | 2.724E-06 | 1.008E-05 | 1638 |
| | 115.3 | 11406 | 4.177E-06 | 1.545E-05 | 1640 |
| | 116.3 | 19321 | 7.075E-06 | 2.618E-05 | 1641 |
| | 117.3 | 9540 | 3.493E-06 | 1.293E-05 | 1643 |
| | 118.2 | 20753 | 7.599E-06 | 2.812E-05 | 1644 |
| | 119.2 | 15981 | 5.852E-06 | 2.165E-05 | 1646 |
| | 120.2 | 5057 | 1.852E-06 | 6.852E-06 | 1647 |
| | 121.2 | 1188 | 4.350E-07 | 1.610E-06 | 1649 |
| | 122.1 | 136 | 5.016E-08 | 1.856E-07 | 1650 |
| | 123.1 | 408 | 1.496E-07 | 5.536E-07 | 1652 |
| | 124.1 | 63 | 2.335E-08 | 8.640E-08 | 1653 |
| | 125.0 | 15 | 5.622E-09 | 2.080E-08 | 1655 |
| | 126.0 | 188 | 6.919E-08 | 2.560E-07 | 1656 |
| | 126.9 | 146 | 5.362E-08 | 1.984E-07 | 1658 |
| | 127.8 | 0 | 0. | 0. | 1659 |

CROSSWIND INTEGRATED= 1.686E-03 SEC/SQ.M 6.238E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 60.0 | 96 | 3.704E-08 | 1.334E-07 | 3200 |
| | 62.0 | 99 | 3.768E-08 | 1.356E-07 | 3200 |
| | 64.0 | 29 | 1.119E-08 | 4.029E-08 | 3200 |
| | 66.0 | 115 | 4.335E-08 | 1.561E-07 | 3200 |
| 4 | 68.0 | 100 | 3.783E-08 | 1.362E-07 | 3200 |
| 0 | 70.0 | 23 | 8.670E-09 | 3.121E-08 | 3200 |
| | 72.7 | 305 | 1.152E-07 | 4.148E-07 | 3168 |
| | 73.7 | 275 | 1.040E-07 | 3.743E-07 | 3170 |
| | 74.7 | 530 | 1.997E-07 | 7.190E-07 | 3172 |
| | 75.7 | 411 | 1.552E-07 | 5.586E-07 | 3173 |
| | 76.8 | 262 | 9.884E-08 | 3.558E-07 | 3175 |
| | 77.8 | 505 | 1.905E-07 | 6.859E-07 | 3177 |
| | 78.8 | 774 | 2.919E-07 | 1.051E-06 | 3179 |
| | 79.8 | 301 | 1.137E-07 | 4.093E-07 | 3180 |
| | 80.8 | 637 | 2.402E-07 | 8.647E-07 | 3182 |
| | 81.8 | 493 | 1.859E-07 | 6.693E-07 | 3184 |
| | 82.8 | 997 | 3.759E-07 | 1.353E-06 | 3185 |

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 60.0 | 224 | 8.221E-08 | 3.042E-07 | 3200 |
| | 62.0 | 211 | 7.763E-08 | 2.872E-07 | 3200 |
| | 64.0 | 155 | 5.699E-08 | 2.109E-07 | 3200 |
| | 66.0 | 177 | 6.501E-08 | 2.406E-07 | 3200 |
| 4 | 68.0 | 211 | 7.763E-08 | 2.872E-07 | 3200 |
| 0 | 70.0 | 202 | 7.419E-08 | 2.745E-07 | 3200 |
| | 72.7 | 141 | 5.183E-08 | 1.918E-07 | 3168 |
| | 73.7 | 360 | 1.320E-07 | 4.884E-07 | 3170 |
| | 74.7 | 144 | 5.300E-08 | 1.961E-07 | 3172 |
| | 75.7 | 275 | 1.007E-07 | 3.727E-07 | 3173 |
| | 76.8 | 221 | 8.116E-08 | 3.003E-07 | 3175 |
| | 77.8 | 119 | 4.361E-08 | 1.614E-07 | 3177 |
| | 78.8 | 189 | 6.943E-08 | 2.569E-07 | 3179 |
| | 79.8 | 68 | 2.523E-08 | 9.335E-08 | 3180 |
| | 80.8 | 328 | 1.203E-07 | 4.450E-07 | 3182 |
| | 81.8 | 520 | 1.907E-07 | 7.055E-07 | 3184 |
| | 82.8 | 851 | 3.119E-07 | 1.154E-06 | 3185 |

| | | | | |
|---|---|---|---|---|
| 83.8 | 763 | 2.678E-07 | 1.036E-06 | 3187 |
| 84.8 | 822 | 3.094E-07 | 1.115E-06 | 3189 |
| 85.8 | 490 | 1.849E-07 | 6.656E-07 | 3191 |
| 86.8 | 680 | 2.566E-07 | 9.237E-07 | 3192 |
| 87.8 | 974 | 3.672E-07 | 1.322E-06 | 3194 |
| 88.8 | 905 | 3.411E-07 | 1.228E-06 | 3196 |
| 89.8 | 1451 | 5.470E-07 | 1.969E-06 | 3198 |
| 90.8 | 554 | 2.090E-07 | 7.522E-07 | 3199 |
| 91.8 | 1319 | 4.973E-07 | 1.790E-06 | 3201 |
| 92.8 | 1766 | 6.658E-07 | 2.397E-06 | 3203 |
| 93.8 | 1399 | 5.275E-07 | 1.899E-06 | 3205 |
| 94.8 | 1867 | 7.037E-07 | 2.533E-06 | 3206 |
| 95.8 | 1822 | 6.868E-07 | 2.472E-06 | 3208 |
| 96.8 | 1853 | 6.986E-07 | 2.515E-06 | 3210 |
| 97.8 | 2150 | 8.102E-07 | 2.917E-06 | 3212 |
| 98.8 | 1669 | 6.289E-07 | 2.264E-06 | 3213 |
| 99.8 | 2003 | 7.549E-07 | 2.718E-06 | 3215 |
| 100.8 | 1427 | 5.377E-07 | 1.936E-06 | 3217 |
| 101.8 | 788 | 2.970E-07 | 1.069E-06 | 3218 |
| 102.8 | 467 | 1.762E-07 | 6.342E-07 | 3220 |
| 103.8 | 403 | 1.521E-07 | 5.476E-07 | 3222 |
| 104.8 | 441 | 1.664E-07 | 5.992E-07 | 3224 |
| 105.8 | 592 | 2.233E-07 | 8.039E-07 | 3225 |
| 106.8 | 399 | 1.506E-07 | 5.421E-07 | 3227 |
| 107.8 | 247 | 9.321E-08 | 3.356E-07 | 3229 |
| 108.8 | 829 | 3.124E-07 | 1.125E-06 | 3230 |
| 109.7 | 835 | 3.150E-07 | 1.134E-06 | 3232 |
| 110.7 | 2176 | 8.199E-07 | 2.952E-06 | 3233 |
| 111.7 | 3801 | 1.432E-06 | 5.157E-06 | 3235 |
| 112.7 | 4834 | 1.822E-06 | 6.560E-06 | 3237 |
| 113.7 | 4060 | 1.531E-06 | 5.510E-06 | 3238 |
| 114.6 | 5265 | 1.984E-06 | 7.143E-06 | 3240 |
| 115.6 | 3411 | 1.285E-06 | 4.626E-06 | 3241 |
| 116.6 | 3461 | 1.304E-06 | 4.696E-06 | 3243 |
| 117.6 | 152 | 5.736E-08 | 2.065E-07 | 3245 |
| 118.6 | 13 | 5.121E-09 | 1.844E-08 | 3246 |
| 119.5 | 0 | 0. | 0. | 3248 |

CROSSWIND INTEGRATED= 1.314E-03 SEC/SQ.M  4.747E-03 1/M

| | | | | |
|---|---|---|---|---|
| 83.8 | 339 | 1.242E-07 | 4.595E-07 | 3187 |
| 84.8 | 93 | 3.423E-08 | 1.266E-07 | 3189 |
| 85.8 | 160 | 5.887E-08 | 2.178E-07 | 3191 |
| 86.8 | 456 | 1.672E-07 | 6.187E-07 | 3192 |
| 87.8 | 307 | 1.125E-07 | 4.161E-07 | 3194 |
| 88.8 | 296 | 1.085E-07 | 4.016E-07 | 3196 |
| 89.8 | 467 | 1.711E-07 | 6.332E-07 | 3198 |
| 90.8 | 243 | 8.899E-08 | 3.292E-07 | 3199 |
| 91.8 | 862 | 3.159E-07 | 1.169E-06 | 3201 |
| 92.8 | 1326 | 4.837E-07 | 1.790E-06 | 3203 |
| 93.8 | 476 | 1.750E-07 | 6.476E-07 | 3205 |
| 94.8 | 659 | 2.415E-07 | 8.937E-07 | 3206 |
| 95.8 | 606 | 2.220E-07 | 8.213E-07 | 3208 |
| 96.8 | 531 | 1.946E-07 | 7.200E-07 | 3210 |
| 97.8 | 798 | 2.924E-07 | 1.082E-06 | 3212 |
| 98.8 | 851 | 3.119E-07 | 1.154E-06 | 3213 |
| 99.8 | 883 | 3.237E-07 | 1.198E-06 | 3215 |
| 100.8 | 595 | 2.181E-07 | 8.068E-07 | 3217 |
| 101.8 | 285 | 1.046E-07 | 3.871E-07 | 3218 |
| 102.8 | 456 | 1.672E-07 | 6.187E-07 | 3220 |
| 103.8 | 243 | 8.899E-08 | 3.292E-07 | 3222 |
| 104.8 | 43 | 1.584E-08 | 5.861E-08 | 3224 |
| 105.8 | 109 | 4.009E-08 | 1.483E-07 | 3225 |
| 106.8 | 66 | 2.445E-08 | 9.045E-08 | 3227 |
| 3 107.8 | 35 | 1.428E-08 | 5.282E-08 | 3229 |
| 108.8 | 189 | 6.943E-08 | 2.569E-07 | 3230 |
| 109.7 | 176 | 6.474E-08 | 2.395E-07 | 3232 |
| 110.7 | 713 | 2.611E-07 | 9.660E-07 | 3233 |
| 111.7 | 1206 | 4.426E-07 | 1.638E-06 | 3235 |
| 112.7 | 1814 | 6.644E-07 | 2.458E-06 | 3237 |
| 113.7 | 5381 | 1.970E-06 | 7.291E-06 | 3238 |
| 114.6 | 8970 | 3.265E-06 | 1.215E-05 | 3240 |
| 115.6 | 12620 | 4.621E-06 | 1.710E-05 | 3241 |
| 2 116.6 | 7848 | 2.874E-06 | 1.063E-05 | 3243 |
| 117.6 | 1500 | 5.494E-07 | 2.033E-06 | 3245 |
| 118.6 | 737 | 2.701E-07 | 9.993E-07 | 3246 |
| 119.5 | 387 | 1.419E-07 | 5.252E-07 | 3248 |
| 120.5 | 349 | 1.281E-07 | 4.740E-07 | 3249 |
| 121.5 | 9 | 3.481E-09 | 1.288E-08 | 3251 |
| 122.4 | 1 | 7.041E-10 | 2.605E-09 | 3252 |
| 123.4 | 0 | 1.173E-10 | 4.342E-10 | 3253 |

CROSSWIND INTEGRATED= 1.199E-03 SEC/SQ.M  4.437E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SOURCE ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EC/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 62.0 | 949 | 3.578E-07 | 1.288E-06 | 4630 |
| 64.0 | 1053 | 3.971E-07 | 1.430E-06 | 4620 |
| 66.0 | 4505 | 1.698E-06 | 6.111E-06 | 4610 |
| 68.0 | 904 | 3.408E-07 | 1.227E-06 | 4610 |
| 90.0 | 822 | 3.099E-07 | 1.116E-06 | 4610 |
| 92.0 | 298 | 1.124E-07 | 4.046E-07 | 4620 |
| 94.0 | 292 | 1.102E-07 | 3.967E-07 | 4620 |
| 96.0 | 541 | 2.040E-07 | 7.343E-07 | 4620 |
| 98.0 | 179 | 6.763E-08 | 2.435E-07 | 4560 |
| 100.0 | 285 | 1.056E-07 | 3.802E-07 | 4690 |
| 4 102.0 | 45 | 1.718E-08 | 6.186E-08 | 4710 |
| 4 104.0 | 97 | 3.673E-08 | 1.322E-07 | 4770 |
| 106.0 | 204 | 7.693E-08 | 2.769E-07 | 4810 |
| 108.0 | 164 | 6.195E-08 | 2.230E-07 | 4870 |
| 110.0 | 243 | 9.159E-08 | 3.297E-07 | 4920 |
| 112.0 | 109 | 4.114E-08 | 1.481E-07 | 4990 |
| Z 114.0 | 0 | 0. | 0. | 5080 |
| 6 116.0 | 0 | 0. | 0. | 5020 |
| 116.0 | 12 | 4.571E-09 | 1.646E-08 | 5100 |
| 6 120.0 | 0 | 0. | 0. | 5130 |
| X 122.0 | 0 | 0. | 0. | 4830 |
| X 124.0 | 0 | 0. | 0. | 4660 |
| 126.0 | 4 | 1.734E-09 | 6.242E-09 | 4770 |
| 128.0 | 12 | 4.729E-09 | 1.702E-08 | 4900 |
| 5 130.0 | 2 | 7.882E-10 | 2.837E-09 | 4970 |
| 132.0 | 5 | 2.207E-09 | 7.945E-09 | 4980 |
| 134.0 | 1 | 6.305E-10 | 2.270E-09 | 4990 |
| 136.0 | 0 | 0. | 0. | 5000 |

CROSSWIND INTEGRATED= 6.547E-04 SEC/SQ.M  2.357E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SOURCE ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EC/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 62.0 | 1419 | 5.176E-07 | 1.923E-06 | 4630 |
| 64.0 | 1320 | 4.835E-07 | 1.789E-06 | 4620 |
| 66.0 | 2300 | 8.423E-07 | 3.117E-06 | 4610 |
| 68.0 | 1103 | 4.041E-07 | 1.495E-06 | 4610 |
| 90.0 | 1182 | 4.330E-07 | 1.602E-06 | 4610 |
| 92.0 | 906 | 3.318E-07 | 1.228E-06 | 4620 |
| 94.0 | 847 | 3.102E-07 | 1.146E-06 | 4620 |
| 96.0 | 945 | 3.463E-07 | 1.281E-06 | 4620 |
| 98.0 | 866 | 3.174E-07 | 1.174E-06 | 4560 |
| 100.0 | 866 | 3.174E-07 | 1.174E-06 | 4690 |
| 4 102.0 | 630 | 2.307E-07 | 8.536E-07 | 4710 |
| 4 104.0 | 728 | 2.668E-07 | 9.872E-07 | 4770 |
| 106.0 | 649 | 2.379E-07 | 8.803E-07 | 4810 |
| 108.0 | 708 | 2.596E-07 | 9.605E-07 | 4870 |
| 110.0 | 768 | 2.813E-07 | 1.041E-06 | 4920 |
| 112.0 | 406 | 1.488E-07 | 5.507E-07 | 4990 |
| E 114.0 | 5 | 1.835E-09 | 6.788E-09 | 5080 |
| 6 116.0 | 2 | 8.485E-10 | 3.139E-09 | 5020 |
| 116.0 | 7 | 2.637E-09 | 9.756E-09 | 5100 |
| 6 120.0 | 7 | 2.752E-09 | 1.018E-08 | 5130 |
| E 122.0 | 5 | 2.064E-09 | 7.637E-09 | 4830 |
| E 124.0 | 4 | 1.491E-09 | 5.515E-09 | 4660 |
| 4 126.0 | 2 | 1.055E-09 | 3.903E-09 | 4770 |
| 128.0 | 6 | 2.293E-09 | 8.485E-09 | 4900 |
| 5 130.0 | 9 | 3.440E-09 | 1.273E-08 | 4970 |
| 132.0 | 7 | 2.867E-09 | 1.061E-08 | 4980 |
| 134.0 | 1 | 4.701E-10 | 1.739E-09 | 4990 |
| E 136.0 | 2 | 9.173E-10 | 3.394E-09 | 5000 |
| 6 138.0 | 5 | 1.949E-09 | 7.212E-09 | 5020 |
| 5 140.0 | 5 | 1.949E-09 | 7.212E-09 | 5060 |
| 3 142.0 | 5 | 2.179E-09 | 8.061E-09 | 5090 |
| 9 144.0 | 0 | 0. | 0. | 5130 |

CROSSWIND INTEGRATED= 9.408E-04 SEC/SQ.M  3.481E-03 1/M



U77 1202811

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 76.0 | 458 | 1.726E-07 | 6.214E-07 | 6280 |
| 78.0 | 1873 | 7.061E-07 | 2.542E-06 | 6300 |
| 80.0 | 2494 | 9.398E-07 | 3.383E-06 | 6400 |
| 82.0 | 2012 | 7.584E-07 | 2.730E-06 | 6490 |
| 5 84.0 | 488 | 1.841E-07 | 6.628E-07 | 6500 |
| 86.0 | 301 | 1.135E-07 | 4.086E-07 | 6500 |
| E 88.0 | 271 | 1.021E-07 | 3.677E-07 | 6480 |
| 90.0 | 245 | 9.253E-08 | 3.331E-07 | 6500 |
| 92.0 | 194 | 7.314E-08 | 2.633E-07 | 6490 |
| 94.0 | 184 | 6.968E-08 | 2.508E-07 | 6500 |
| 96.0 | 292 | 1.103E-07 | 3.972E-07 | 6510 |
| 98.0 | 120 | 4.540E-08 | 1.634E-07 | 6520 |
| 100.0 | 50 | 1.892E-08 | 6.810E-08 | 6560 |
| 7 102.0 | 33 | 1.245E-08 | 4.483E-08 | 6610 |
| S 104.0 | 5 | 2.049E-09 | 7.377E-09 | 6650 |
| 106.0 | 6 | 2.365E-09 | 8.512E-09 | 6720 |
| 108.0 | 0 | 0. | 0. | 6800 |
| C 110.0 | 0 | 3.153E-10 | 1.135E-09 | 7000 |
| 112.0 | 1 | 6.305E-10 | 2.270E-09 | 7300 |
| 114.0 | 2 | 7.882E-10 | 2.837E-09 | 7210 |
| 116.0 | 0 | 0. | 0. | 7220 |

CROSSWIND INTEGRATED= 7.630E-04 SEC/SQ.M 2.747E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 76.0 | 708 | 2.596E-07 | 9.605E-07 | 6280 |
| 2 78.0 | 1576 | 5.774E-07 | 2.137E-06 | 6300 |
| 80.0 | 1971 | 7.219E-07 | 2.671E-06 | 6400 |
| 82.0 | 1642 | 6.015E-07 | 2.226E-06 | 6490 |
| 5 84.0 | 1445 | 5.293E-07 | 1.956E-06 | 6500 |
| 4 86.0 | 748 | 2.740E-07 | 1.014E-06 | 6500 |
| E 88.0 | 465 | 1.705E-07 | 6.309E-07 | 6480 |
| 90.0 | 307 | 1.127E-07 | 4.170E-07 | 6500 |
| 2 92.0 | 353 | 1.296E-07 | 4.794E-07 | 6490 |
| 3 94.0 | 294 | 1.079E-07 | 3.992E-07 | 6500 |
| 96.0 | 445 | 1.633E-07 | 6.041E-07 | 6510 |
| 98.0 | 551 | 2.018E-07 | 7.467E-07 | 6520 |
| 100.0 | 274 | 1.007E-07 | 3.725E-07 | 6560 |
| 7 102.0 | 136 | 5.011E-08 | 1.854E-07 | 6610 |
| T 104.0 | 31 | 1.158E-08 | 4.285E-08 | 6650 |
| T 106.0 | 16 | 6.192E-09 | 2.291E-08 | 6720 |
| 108.0 | 5 | 2.179E-09 | 8.061E-09 | 6800 |
| 0 110.0 | 1 | 5.733E-10 | 2.121E-09 | 7000 |
| 3 112.0 | 1 | 5.389E-10 | 1.994E-09 | 7300 |
| 114.0 | 7 | 2.752E-09 | 1.018E-08 | 7210 |
| 116.0 | 0 | 0. | 0. | 7220 |
| 118.0 | 6 | 2.408E-09 | 8.909E-09 | 7190 |
| 120.0 | 1 | 6.765E-10 | 2.503E-09 | 7150 |
| 5 122.0 | 5 | 2.179E-09 | 8.061E-09 | 7120 |
| 124.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 9.063E-04 SEC/SQ.M 3.353E-03 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 5 91.0 | 1 | 6.305E-10 | 2.270E-09 | 12800 |
| 93.0 | 0 | 0. | 0. | 12800 |
| 95.0 | 0 | 0. | 0. | 12800 |
| 97.0 | 0 | 0. | 0. | 12800 |
| 99.0 | 0 | 0. | 0. | 12800 |
| 4 100.0 | 0 | 0. | 0. | 12800 |
| 101.0 | 22 | 8.355E-09 | 3.006E-08 | 12800 |
| 4 102.0 | 0 | 0. | 0. | 12800 |
| 111.0 | 0 | 0. | 0. | 12800 |
| 115.0 | 0 | 0. | 0. | 12800 |
| 121.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 2.148E-06 SEC/SQ.M 7.734E-06 1/M

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 3.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 91.0 | 6 | 2.293E-09 | 8.485E-09 | 12800 |
| 4 92.0 | 2 | 7.453E-10 | 2.758E-09 | 12800 |
| 4 93.0 | 0 | 2.293E-10 | 8.485E-10 | 12800 |
| 5 94.0 | 0 | 2.293E-10 | 8.485E-10 | 12800 |
| 5 95.0 | 2 | 9.173E-10 | 3.394E-09 | 12800 |
| 4 96.0 | 3 | 1.192E-09 | 4.412E-09 | 12800 |
| 9 97.0 | 1 | 4.357E-10 | 1.612E-09 | 12800 |
| 5 98.0 | 1 | 4.013E-10 | 1.485E-09 | 12800 |
| 5 99.0 | 1 | 5.389E-10 | 1.994E-09 | 12800 |
| 4 100.0 | 0 | 3.440E-11 | 1.273E-10 | 12800 |
| 3 101.0 | 1 | 4.357E-10 | 1.612E-09 | 12800 |
| 4 102.0 | 0 | 1.949E-10 | 7.212E-10 | 12800 |
| 4 103.0 | 0 | 9.173E-11 | 3.394E-10 | 12800 |
| 4 104.0 | 0 | 1.605E-10 | 5.940E-10 | 12800 |
| P 105.0 | 1 | 4.357E-10 | 1.612E-09 | 12800 |
| 7 106.0 | 0 | 2.064E-10 | 7.637E-10 | 12800 |
| 4 107.0 | 0 | 2.981E-10 | 1.103E-09 | 12800 |
| 5 108.0 | 0 | 1.376E-10 | 5.091E-10 | 12800 |
| 5 109.0 | 1 | 5.389E-10 | 1.994E-09 | 12800 |
| 4 110.0 | 0 | 2.981E-10 | 1.103E-09 | 12800 |
| 3 111.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 2.193E-06 SEC/SQ.M 8.113E-06 1/M

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.
TRACE OF RAIN FELL DURING TRACER RELEASE. UP TO 0.03 INCHES OF RAIN FELL DURING PICKUP OF SAMPLES; ALTHOUGH MANY FILTERS WERE VERY WET. THE EFFECTS OF THIS "WASHING" ARE UNCERTAIN.

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 118.0 | 0 | 0. | 0. | 400 |
| 122.0 | 1278 | 4.486E-07 | 3.176E-06 | 400 |
| 126.0 | 18373 | 7.021E-05 | 4.564E-05 | 400 |
| 130.0 | 60708 | 2.320E-05 | 1.508E-04 | 400 |
| 134.0 | 66751 | 2.551E-05 | 1.658E-04 | 400 |
| 138.0 | 41527 | 1.587E-05 | 1.031E-04 | 400 |
| 142.0 | 9026 | 3.449E-06 | 2.242E-05 | 400 |
| 146.0 | 261 | 9.983E-08 | 6.489E-07 | 400 |
| 150.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 2.112E-03 SEC/SQ.M 1.373E-02 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| P 106.0 | 1 | 5.123E-10 | 3.739E-09 | 400 |
| 110.0 | 0 | 0. | 0. | 400 |
| 114.0 | 0 | 0. | 0. | 400 |
| 118.0 | 0 | 0. | 0. | 400 |
| 122.0 | 0 | 0. | 0. | 400 |
| 126.0 | 814 | 2.968E-07 | 2.166E-06 | 400 |
| 130.0 | 3469 | 1.265E-06 | 9.234E-06 | 400 |
| 134.0 | 9494 | 3.461E-06 | 2.527E-05 | 400 |
| 138.0 | 1563 | 5.698E-07 | 4.160E-06 | 400 |
| 142.0 | 92 | 3.361E-08 | 2.454E-07 | 400 |
| 146.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.571E-04 SEC/SQ.M 1.147E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 120.2 | 0 | 0. | 0. | 845 |
| 122.1 | 101 | 3.466E-08 | 2.513E-07 | 848 |
| 124.0 | 500 | 1.931E-07 | 1.242E-06 | 851 |
| 125.8 | 3317 | 1.153E-06 | 7.456E-06 | 854 |
| 127.7 | 12753 | 4.874E-06 | 3.168E-05 | 857 |
| 129.5 | 19472 | 7.441E-06 | 4.836E-05 | 859 |
| S 131.4 | 9123 | 3.466E-06 | 2.266E-05 | 862 |
| 133.2 | 35770 | 1.367E-05 | 8.884E-05 | 865 |
| 135.0 | 26421 | 1.010E-05 | 6.562E-05 | 867 |
| 136.8 | 35515 | 1.357E-05 | 8.821E-05 | 869 |
| 138.7 | 20853 | 7.969E-06 | 5.180E-05 | 872 |
| 140.6 | 7197 | 2.750E-06 | 1.788E-05 | 874 |
| 142.4 | 907 | 3.466E-07 | 2.254E-06 | 876 |
| 144.2 | 11 | 4.418E-09 | 2.872E-08 | 878 |
| 146.0 | 0 | 0. | 0. | 880 |

CROSSWIND INTEGRATED= 1.821E-03 SEC/SQ.M 1.184E-02 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 122.1 | 0 | 1.175E-10 | 8.579E-10 | 848 |
| 124.0 | 208 | 7.594E-08 | 5.544E-07 | 851 |
| 125.8 | 1250 | 4.559E-07 | 3.328E-06 | 854 |
| 127.7 | 9699 | 3.536E-06 | 2.581E-05 | 857 |
| 129.5 | 37982 | 1.385E-05 | 1.011E-04 | 859 |
| T 131.4 | 44492 | 1.622E-05 | 1.184E-04 | 862 |
| 133.2 | 71623 | 2.611E-05 | 1.906E-04 | 865 |
| 134.9 | 24818 | 9.048E-06 | 6.605E-05 | 867 |
| T 136.9 | 11730 | 4.277E-06 | 3.122E-05 | 870 |
| 138.7 | 6658 | 2.428E-06 | 1.772E-05 | 872 |
| T 140.6 | 1250 | 4.559E-07 | 3.328E-06 | 874 |
| T 142.4 | 75 | 2.763E-08 | 2.017E-07 | 876 |
| T 144.2 | 7 | 2.820E-09 | 2.059E-08 | 878 |
| S 146.0 | 7 | 2.690E-09 | 1.964E-08 | 880 |
| T 147.8 | 18 | 6.738E-09 | 4.919E-08 | 882 |

CROSSWIND INTEGRATED= 2.097E-03 SEC/SQ.M 1.531E-02 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| X 122.0 | 0 | 0. | 0. | 1200 |
| 124.0 | 73 | 2.798E-08 | 1.819E-07 | 1200 |
| 126.0 | 1695 | 6.477E-07 | 4.210E-06 | 1200 |
| 128.0 | 3732 | 1.426E-06 | 9.270E-06 | 1200 |
| S 130.0 | 8903 | 3.402E-06 | 2.211E-05 | 1200 |
| 132.0 | 12354 | 4.721E-06 | 3.069E-05 | 1200 |
| 134.0 | 14764 | 5.642E-06 | 3.667E-05 | 1200 |
| S 136.0 | 17032 | 6.509E-06 | 4.231E-05 | 1200 |
| 138.0 | 4412 | 1.686E-06 | 1.096E-05 | 1200 |
| 140.0 | 2209 | 8.441E-07 | 5.487E-06 | 1200 |
| 142.0 | 287 | 1.100E-07 | 7.147E-07 | 1200 |
| 144.0 | 6 | 2.518E-09 | 1.637E-08 | 1200 |
| 146.0 | 0 | 2.798E-10 | 1.819E-09 | 1200 |

CROSSWIND INTEGRATED= 1.048E-03 SEC/SQ.M 6.812E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| X 122.0 | 0 | 0. | 0. | 1200 |
| 1 124.0 | 17 | 6.290E-09 | 4.592E-08 | 1200 |
| Z 126.0 | 809 | 2.951E-07 | 2.154E-06 | 1200 |
| Z 128.0 | 4303 | 1.569E-06 | 1.145E-05 | 1200 |
| T 130.0 | 12237 | 4.461E-06 | 3.257E-05 | 1200 |
| 132.0 | 15830 | 5.771E-06 | 4.213E-05 | 1200 |
| 134.0 | 12968 | 4.728E-06 | 3.451E-05 | 1200 |
| T 136.0 | 10411 | 3.796E-06 | 2.771E-05 | 1200 |
| 138.0 | 2353 | 8.582E-07 | 6.265E-06 | 1200 |
| 1 140.0 | 746 | 2.720E-07 | 1.986E-06 | 1200 |
| 142.0 | 78 | 2.871E-08 | 2.096E-07 | 1200 |
| 144.0 | 2 | 1.015E-09 | 7.412E-09 | 1200 |
| 146.0 | 1 | 4.220E-10 | 3.080E-09 | 1200 |

CROSSWIND INTEGRATED= 9.126E-04 SEC/SQ.M 6.662E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 124.1 | 0 | 0. | 0. | 1653 |
| 125.0 | 99 | 3.791E-08 | 2.464E-07 | 1655 |
| 126.0 | 667 | 2.628E-07 | 1.708E-06 | 1656 |
| 126.9 | 1287 | 4.920E-07 | 3.198E-06 | 1658 |
| 127.8 | 3366 | 1.284E-06 | 8.362E-06 | 1659 |
| 128.8 | 8886 | 3.396E-06 | 2.207E-05 | 1660 |
| 129.7 | 11105 | 4.243E-06 | 2.758E-05 | 1662 |
| 130.6 | 11860 | 4.532E-06 | 2.946E-05 | 1663 |
| 131.5 | 12748 | 4.872E-06 | 3.167E-05 | 1664 |
| 132.5 | 14451 | 5.522E-06 | 3.589E-05 | 1665 |
| 133.5 | 17811 | 6.806E-06 | 4.424E-05 | 1667 |
| 134.4 | 10566 | 4.038E-06 | 2.624E-05 | 1668 |
| 135.4 | 19481 | 7.444E-06 | 4.839E-05 | 1669 |
| 136.4 | 9749 | 3.726E-06 | 2.422E-05 | 1670 |
| 137.3 | 4047 | 1.547E-06 | 1.005E-05 | 1672 |
| R 138.3 | 469 | 1.792E-07 | 1.165E-06 | 1673 |
| 139.3 | 4615 | 1.764E-06 | 1.146E-05 | 1674 |
| 140.2 | 1752 | 6.695E-07 | 4.352E-06 | 1675 |
| 141.2 | 529 | 2.025E-07 | 1.316E-06 | 1676 |
| 142.2 | 180 | 6.893E-08 | 4.480E-07 | 1677 |
| 143.1 | 9 | 3.446E-09 | 2.240E-08 | 1678 |
| 144.1 | 0 | 0. | 0. | 1679 |

CROSSWIND INTEGRATED= 1.417E-03 SEC/SQ.M 9.213E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 123.1 | 0 | 0. | 0. | 1652 |
| 124.1 | 0 | 6.028E-11 | 4.400E-10 | 1653 |
| 125.0 | 173 | 6.312E-08 | 4.608E-07 | 1655 |
| 126.0 | 392 | 1.432E-07 | 1.045E-06 | 1656 |
| 126.9 | 704 | 2.569E-07 | 1.875E-06 | 1658 |
| 127.8 | 3269 | 1.192E-06 | 8.702E-06 | 1659 |
| 128.8 | 4460 | 1.626E-06 | 1.187E-05 | 1660 |
| 129.7 | 7138 | 2.603E-06 | 1.900E-05 | 1662 |
| 130.6 | 10115 | 3.688E-06 | 2.692E-05 | 1663 |
| 131.5 | 9817 | 3.579E-06 | 2.613E-05 | 1664 |
| 132.5 | 11404 | 4.158E-06 | 3.035E-05 | 1665 |
| 133.5 | 13884 | 5.062E-06 | 3.695E-05 | 1667 |
| 134.4 | 13884 | 5.062E-06 | 3.695E-05 | 1668 |
| 135.4 | 12892 | 4.700E-06 | 3.431E-05 | 1669 |
| 136.4 | 25789 | 9.402E-06 | 6.863E-05 | 1670 |
| 137.3 | 9222 | 3.362E-06 | 2.454E-05 | 1672 |
| 138.3 | 2674 | 9.751E-07 | 7.118E-06 | 1673 |
| 139.3 | 189 | 6.906E-08 | 5.042E-07 | 1674 |
| 140.2 | 69 | 2.523E-08 | 1.842E-07 | 1675 |
| 141.2 | 321 | 1.174E-07 | 8.568E-07 | 1676 |
| 142.2 | 132 | 4.848E-08 | 3.539E-07 | 1677 |
| 143.1 | 10 | 3.875E-09 | 2.829E-08 | 1678 |
| 144.1 | 0 | 2.153E-10 | 1.572E-09 | 1679 |

CROSSWIND INTEGRATED= 1.280E-03 SEC/SQ.M 9.345E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 122.0 | 0 | 0. | 0. | 2200 |
| X 124.0 | 23 | 8.831E-09 | 5.740E-08 | 2200 |
| 126.0 | 206 | 7.902E-08 | 5.136E-07 | 2200 |
| 128.0 | 1094 | 4.184E-07 | 2.720E-06 | 2200 |
| 130.0 | 4412 | 1.686E-06 | 1.096E-05 | 2200 |
| 132.0 | 3110 | 1.188E-06 | 7.725E-06 | 2200 |
| E 134.0 | 3108 | 1.188E-06 | 7.721E-06 | 2200 |
| 136.0 | 3081 | 1.178E-06 | 7.655E-06 | 2200 |
| 7 138.0 | 718 | 2.747E-07 | 1.785E-06 | 2200 |
| 140.0 | 591 | 2.261E-07 | 1.470E-06 | 2200 |
| 142.0 | 60 | 2.314E-08 | 1.504E-07 | 2200 |
| 144.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 4.815E-04 SEC/SQ.M 3.130E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| X 124.0 | 0 | 0. | 0. | 2200 |
| 126.0 | 92 | 3.371E-08 | 2.461E-07 | 2200 |
| 128.0 | 630 | 2.300E-07 | 1.679E-06 | 2200 |
| 130.0 | 6261 | 2.283E-06 | 1.666E-05 | 2200 |
| 3 132.0 | 6451 | 2.352E-06 | 1.717E-05 | 2200 |
| O 134.0 | 4933 | 1.799E-06 | 1.313E-05 | 2200 |
| 3 136.0 | 5123 | 1.868E-06 | 1.363E-05 | 2200 |
| P 138.0 | 1419 | 5.176E-07 | 3.779E-06 | 2200 |
| 140.0 | 216 | 7.892E-08 | 5.761E-07 | 2200 |
| 142.0 | 134 | 4.890E-08 | 3.569E-07 | 2200 |
| 144.0 | 0 | 5.708E-11 | 4.167E-10 | 2200 |

CROSSWIND INTEGRATED= 7.073E-04 SEC/SQ.M 5.163E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 125.4 | 0 | 0. | 0. | 3256 |
| 126.3 | 14 | 5.454E-09 | 3.545E-08 | 3258 |
| 127.3 | 54 | 2.082E-08 | 1.353E-07 | 3259 |
| 128.3 | 496 | 1.899E-07 | 1.234E-06 | 3261 |
| 129.3 | 705 | 2.697E-07 | 1.753E-06 | 3262 |
| 130.3 | 2828 | 1.081E-06 | 7.025E-06 | 3263 |
| 131.2 | 4060 | 1.552E-06 | 1.009E-05 | 3264 |
| 132.2 | 4142 | 1.583E-06 | 1.029E-05 | 3266 |
| 133.2 | 4349 | 1.662E-06 | 1.080E-05 | 3267 |
| 134.2 | 4822 | 1.843E-06 | 1.198E-05 | 3268 |
| 135.2 | 3732 | 1.426E-06 | 9.271E-06 | 3270 |
| 136.2 | 3173 | 1.213E-06 | 7.882E-06 | 3271 |
| 137.1 | 2446 | 9.350E-07 | 6.078E-06 | 3272 |
| 138.1 | 2056 | 7.858E-07 | 5.106E-06 | 3273 |
| 139.1 | 851 | 3.252E-07 | 2.114E-06 | 3274 |
| 140.1 | 277 | 1.061E-07 | 6.896E-07 | 3276 |
| 141.1 | 64 | 2.479E-08 | 1.611E-07 | 3277 |
| 142.0 | 0 | 0. | 0. | 3278 |

CROSSWIND INTEGRATED= 7.290E-04 SEC/SQ.M 4.738E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 125.4 | 0 | 1.207E-10 | 8.813E-10 | 3256 |
| 126.3 | 23 | 8.664E-09 | 6.340E-08 | 3258 |
| 127.3 | 297 | 1.084E-07 | 7.912E-07 | 3259 |
| 128.3 | 307 | 1.123E-07 | 8.196E-07 | 3261 |
| 129.3 | 985 | 3.592E-07 | 2.622E-06 | 3262 |
| 130.3 | 1030 | 3.755E-07 | 2.741E-06 | 3263 |
| 131.2 | 3497 | 1.274E-06 | 9.308E-06 | 3264 |
| 132.2 | 2892 | 1.054E-06 | 7.697E-06 | 3266 |
| 133.2 | 4237 | 1.545E-06 | 1.128E-05 | 3267 |
| 134.2 | 3026 | 1.103E-06 | 8.055E-06 | 3268 |
| 135.2 | 2488 | 9.071E-07 | 6.622E-06 | 3270 |
| 136.2 | 2420 | 8.826E-07 | 6.443E-06 | 3271 |
| 137.1 | 1142 | 4.164E-07 | 3.040E-06 | 3272 |
| 138.1 | 260 | 9.502E-08 | 6.937E-07 | 3273 |
| 139.1 | 254 | 9.280E-08 | 6.775E-07 | 3274 |
| 140.1 | 4 | 1.558E-09 | 1.137E-08 | 3276 |
| 141.1 | 0 | 3.115E-10 | 2.274E-09 | 3277 |

CROSSWIND INTEGRATED= 4.670E-04 SEC/SQ.M 3.409E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 126.0 | 0 | 0. | 0. | 4770 |
| 128.0 | 3 | 1.523E-09 | 9.896E-09 | 4900 |
| 130.0 | 33 | 1.294E-08 | 8.412E-08 | 4970 |
| 132.0 | 867 | 3.313E-07 | 2.153E-06 | 4980 |
| 134.0 | 2535 | 9.689E-07 | 6.298E-06 | 4990 |
| 5 136.0 | 833 | 3.184E-07 | 2.069E-06 | 5000 |
| 138.0 | 836 | 3.197E-07 | 2.078E-06 | 5020 |
| 140.0 | 49 | 1.873E-08 | 1.217E-07 | 5060 |
| 142.0 | 0 | 0. | 0. | 5090 |

CROSSWIND INTEGRATED= 3.438E-04 SEC/SQ.M 2.235E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 126.0 | 0 | 6.850E-11 | 5.000E-10 | 4770 |
| 128.0 | 0 | 1.027E-10 | 7.500E-10 | 4900 |
| 130.0 | 8 | 2.991E-09 | 2.183E-08 | 4970 |
| 132.0 | 689 | 2.514E-07 | 1.835E-06 | 4980 |
| 134.0 | 1511 | 5.511E-07 | 4.023E-06 | 4990 |
| 5 136.0 | 1511 | 5.511E-07 | 4.023E-06 | 5000 |
| 138.0 | 229 | 8.359E-08 | 6.102E-07 | 5020 |
| 140.0 | 4 | 1.694E-09 | 1.237E-08 | 5060 |
| 142.0 | 0 | 1.142E-11 | 8.334E-11 | 5090 |

CROSSWIND INTEGRATED= 2.514E-04 SEC/SQ.M 1.835E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 6.5 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 126.0 | 0 | 0. | 0. | 7100 |
| 128.0 | 3 | 1.370E-09 | 8.907E-09 | 7100 |
| 130.0 | 0 | 0. | 0. | 7130 |
| x 132.0 | 0 | 0. | 0. | 7150 |
| 134.0 | 1292 | 4.941E-07 | 3.211E-06 | 7200 |
| 136.0 | 1548 | 5.917E-07 | 3.846E-06 | 7250 |
| 138.0 | 1736 | 6.637E-07 | 4.314E-06 | 7300 |
| 6 140.0 | 79 | 3.030E-08 | 1.969E-07 | 7350 |
| 142.0 | 0 | 3.045E-10 | 1.979E-09 | 7250 |

CROSSWIND INTEGRATED= 4.512E-04 SEC/SQ.M 2.933E-03 1/M

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 7.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| x 132.0 | 1 | 4.772E-10 | 3.484E-09 | 7150 |
| 134.0 | 356 | 1.300E-07 | 9.494E-07 | 7200 |
| 136.0 | 828 | 3.020E-07 | 2.204E-06 | 7250 |
| 138.0 | 591 | 2.157E-07 | 1.574E-06 | 7300 |
| 6 140.0 | 14 | 5.157E-09 | 3.764E-08 | 7350 |
| 142.0 | 0 | 1.575E-10 | 1.150E-09 | 7250 |

CROSSWIND INTEGRATED= 1.655E-04 SEC/SQ.M 1.208E-03 1/M

SAMPLING 400M TO 12800M. NO TOWER SAMPLING.
SAMPLING ARC AT 2200M WAS NOT ACTIVATED.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| P 114.0 | 0 | 0. | 0. | 400 |
| P 122.0 | 283 | 9.444E-08 | 4.816E-07 | 400 |
| 126.0 | 55569 | 1.852E-05 | 9.447E-05 | 400 |
| 130.0 | 43192 | 1.440E-05 | 7.343E-05 | 400 |
| 134.0 | 18893 | 6.298E-06 | 3.212E-05 | 400 |
| 138.0 | 2514 | 8.380E-07 | 4.274E-06 | 400 |
| 142.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.121E-03 SEC/SQ.M 5.718E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 116.4 | 0 | 0. | 0. | 839 |
| 118.3 | 45 | 1.526E-08 | 7.781E-08 | 842 |
| 120.2 | 982 | 3.273E-07 | 1.669E-06 | 845 |
| 122.1 | 3199 | 1.067E-06 | 5.440E-06 | 848 |
| 124.0 | 28686 | 9.562E-06 | 4.877E-05 | 851 |
| 125.8 | 56936 | 1.898E-05 | 9.679E-05 | 854 |
| 127.7 | 122652 | 4.088E-05 | 2.085E-04 | 857 |
| 129.5 | 70626 | 2.354E-05 | 1.201E-04 | 859 |
| 131.4 | 40545 | 1.352E-05 | 6.893E-05 | 862 |
| 133.2 | 34229 | 1.141E-05 | 5.819E-05 | 865 |
| 135.0 | 8675 | 2.892E-06 | 1.475E-05 | 867 |
| 136.8 | 674 | 2.247E-07 | 1.146E-06 | 869 |
| 138.7 | 0 | 0. | 0. | 872 |

CROSSWIND INTEGRATED= 3.381E-03 SEC/SQ.M 1.724E-02 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 118.0 | 0 | 0. | 0. | 1200 |
| 120.0 | 51 | 1.718E-08 | 8.763E-08 | 1200 |
| 122.0 | 941 | 3.139E-07 | 1.601E-06 | 1200 |
| 124.0 | 5504 | 1.835E-06 | 9.357E-06 | 1200 |
| 126.0 | 39140 | 1.305E-05 | 6.654E-05 | 1200 |
| 128.0 | 68741 | 2.291E-05 | 1.169E-04 | 1200 |
| 130.0 | 44912 | 1.497E-05 | 7.635E-05 | 1200 |
| 132.0 | 21359 | 7.120E-06 | 3.631E-05 | 1200 |
| 134.0 | 5191 | 1.730E-06 | 8.825E-06 | 1200 |
| W 136.0 | 964 | 3.216E-07 | 1.640E-06 | 1200 |
| W 138.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.608E-03 SEC/SQ.M 1.330E-02 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| P 122.0 | 0 | 2.732E-10 | 1.803E-09 | 400 |
| 126.0 | 2 | 1.054E-09 | 6.956E-09 | 400 |
| 130.0 | 3 | 1.405E-09 | 9.275E-09 | 400 |
| 134.0 | 15 | 5.035E-09 | 3.323E-08 | 400 |
| 138.0 | 1 | 5.465E-10 | 3.607E-09 | 400 |
| 142.0 | 4 | 1.639E-09 | 1.082E-08 | 400 |
| 146.0 | 2 | 8.197E-10 | 5.410E-09 | 400 |
| 150.0 | 3 | 1.171E-09 | 7.729E-09 | 400 |
| 154.0 | 6 | 2.225E-09 | 1.468E-08 | 400 |

CROSSWIND INTEGRATED= 3.957E-07 SEC/SQ.M 2.612E-06 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 112.6 | 0 | 0. | 0. | 800 |
| 114.5 | 2 | 9.969E-10 | 6.574E-09 | 836 |
| 116.4 | 15 | 5.653E-09 | 3.731E-08 | 839 |
| 118.3 | 51 | 1.872E-08 | 1.235E-07 | 842 |
| 120.2 | 105 | 3.812E-08 | 2.516E-07 | 845 |
| 122.1 | 238 | 8.598E-08 | 5.675E-07 | 848 |
| 124.0 | 46 | 1.667E-08 | 1.100E-07 | 851 |
| 125.8 | 623 | 2.253E-07 | 1.487E-06 | 854 |
| 127.7 | 10800 | 3.901E-06 | 2.574E-05 | 857 |
| 129.5 | 19525 | 7.051E-06 | 4.654E-05 | 859 |
| 131.4 | 14862 | 5.367E-06 | 3.542E-05 | 862 |
| 133.2 | 4933 | 1.782E-06 | 1.176E-05 | 865 |
| 134.9 | 4933 | 1.782E-06 | 1.176E-05 | 867 |
| 136.9 | 4 | 1.772E-09 | 1.170E-06 | 870 |
| 138.7 | 1 | 6.079E-10 | 4.012E-09 | 872 |
| 140.6 | 0 | 0. | 0. | 874 |

CROSSWIND INTEGRATED= 5.608E-04 SEC/SQ.M 3.701E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 122.0 | 0 | 0. | 0. | 1200 |
| 124.0 | 243 | 8.779E-08 | 5.794E-07 | 1200 |
| 126.0 | 1196 | 4.322E-07 | 2.853E-06 | 1200 |
| 128.0 | 3540 | 1.279E-06 | 8.439E-06 | 1200 |
| 130.0 | 21915 | 7.915E-06 | 5.224E-05 | 1200 |
| 132.0 | 8152 | 2.944E-06 | 1.943E-05 | 1200 |
| 134.0 | 882 | 3.186E-07 | 2.103E-06 | 1200 |
| W 136.0 | 8 | 2.907E-09 | 1.918E-06 | 1200 |
| W 138.0 | 5 | 2.123E-09 | 1.401E-08 | 1200 |
| W 140.0 | 1 | 5.552E-10 | 3.664E-09 | 1200 |

CROSSWIND INTEGRATED= 5.436E-04 SEC/SQ.M 3.589E-03 1/M

120281b



U7

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 120.2 | 0 | 0. | 0. | 1647 |
| 121.2 | 117 | 3.921E-08 | 2.000E-07 | 1649 |
| 122.1 | 364 | 1.215E-07 | 6.194E-07 | 1650 |
| 123.1 | 1488 | 4.963E-07 | 2.531E-06 | 1652 |
| 124.1 | 4349 | 1.450E-06 | 7.394E-06 | 1653 |
| 125.0 | 10055 | 3.352E-06 | 1.709E-05 | 1655 |
| 126.0 | 23691 | 7.897E-06 | 4.028E-05 | 1656 |
| 126.9 | 42345 | 1.412E-05 | 7.199E-05 | 1658 |
| 127.8 | 48929 | 1.631E-05 | 8.318E-05 | 1659 |
| 128.8 | 55992 | 1.866E-05 | 9.519E-05 | 1660 |
| 129.7 | 45563 | 1.519E-05 | 7.746E-05 | 1662 |
| 130.6 | 39691 | 1.323E-05 | 6.748E-05 | 1663 |
| 131.5 | 27968 | 9.323E-06 | 4.755E-05 | 1664 |
| 132.5 | 17924 | 4.308E-06 | 2.197E-05 | 1665 |
| 133.5 | 4667 | 1.556E-06 | 7.935E-06 | 1667 |
| 134.4 | 1747 | 5.824E-07 | 2.970E-06 | 1668 |
| 135.4 | 289 | 9.659E-08 | 4.926E-07 | 1669 |
| 136.4 | 0 | 0. | 0. | 1670 |

CROSSWIND INTEGRATED= 2.884E-03 SEC/SQ.M 1.471E-02 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 117.6 | 0 | 0. | 0. | 3245 |
| 118.6 | 33 | 1.133E-08 | 5.777E-08 | 3246 |
| 119.5 | 232 | 7.748E-08 | 3.951E-07 | 3248 |
| 120.5 | 1168 | 3.896E-07 | 1.987E-06 | 3249 |
| 121.5 | 4210 | 1.404E-06 | 7.158E-06 | 3251 |
| 122.4 | 4462 | 1.487E-06 | 7.586E-06 | 3252 |
| 123.4 | 4417 | 1.472E-06 | 7.510E-06 | 3253 |
| 124.4 | 7379 | 2.460E-06 | 1.254E-05 | 3255 |
| 125.4 | 11383 | 3.794E-06 | 1.935E-05 | 3256 |
| 126.3 | 17922 | 5.974E-06 | 3.047E-05 | 3258 |
| 127.3 | 17209 | 5.736E-06 | 2.926E-05 | 3259 |
| 128.3 | 8100 | 2.700E-06 | 1.377E-05 | 3261 |
| 129.3 | 4908 | 1.636E-06 | 8.344E-06 | 3262 |
| 130.3 | 2252 | 7.507E-07 | 3.829E-06 | 3263 |
| 131.2 | 1205 | 4.019E-07 | 2.050E-06 | 3264 |
| 132.2 | 221 | 7.385E-08 | 3.766E-07 | 3266 |
| 133.2 | 0 | 0. | 0. | 3267 |

CROSSWIND INTEGRATED= 1.573E-03 SEC/SQ.M 8.024E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 122.1 | 0 | 0. | 0. | 1600 |
| 123.1 | 0 | 0. | 0. | 1652 |
| 124.1 | 47 | 1.698E-08 | 1.120E-07 | 1653 |
| 125.0 | 0 | 0. | 0. | 1655 |
| 126.0 | 956 | 3.454E-07 | 2.280E-06 | 1656 |
| 126.9 | 2964 | 1.070E-06 | 7.065E-06 | 1658 |
| 127.8 | 3708 | 1.339E-06 | 8.839E-06 | 1659 |
| 128.8 | 6535 | 2.360E-06 | 1.558E-05 | 1660 |
| 129.7 | 13380 | 4.832E-06 | 3.189E-05 | 1662 |
| 130.6 | 20325 | 7.340E-06 | 4.845E-05 | 1663 |
| 131.5 | 16853 | 6.086E-06 | 4.017E-05 | 1664 |
| 132.5 | 5642 | 2.038E-06 | 1.345E-05 | 1665 |
| 133.5 | 3460 | 1.250E-06 | 8.247E-06 | 1667 |
| 134.4 | 1806 | 6.525E-07 | 4.306E-06 | 1668 |
| 135.4 | 0 | 0. | 0. | 1669 |
| 136.4 | 12 | 4.351E-09 | 2.871E-06 | 1670 |
| 137.3 | 0 | 0. | 0. | 1672 |
| 138.3 | 32 | 1.166E-08 | 7.826E-08 | 1673 |

CROSSWIND INTEGRATED= 7.377E-04 SEC/SQ.M 4.869E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 118.6 | 0 | 0. | 0. | 3200 |
| 119.5 | 0 | 1.543E-10 | 1.018E-09 | 3248 |
| 120.5 | 3 | 1.273E-09 | 8.402E-09 | 3249 |
| 121.5 | 6 | 2.430E-09 | 1.604E-08 | 3251 |
| 122.4 | 12 | 4.398E-09 | 2.903E-08 | 3252 |
| 123.4 | 38 | 1.393E-08 | 9.192E-08 | 3253 |
| 124.4 | 337 | 1.219E-07 | 8.048E-07 | 3255 |
| 125.4 | 332 | 1.200E-07 | 7.921E-07 | 3256 |
| 126.3 | 2149 | 7.762E-07 | 5.123E-06 | 3258 |
| Z 127.3 | 5604 | 2.024E-06 | 1.336E-05 | 3259 |
| 128.3 | 5604 | 2.024E-06 | 1.336E-05 | 3261 |
| 129.3 | 9193 | 3.320E-06 | 2.191E-05 | 3262 |
| 130.3 | 6949 | 2.510E-06 | 1.657E-05 | 3263 |
| 131.2 | 2485 | 8.977E-07 | 5.925E-06 | 3264 |
| 132.2 | 850 | 3.071E-07 | 2.027E-06 | 3266 |
| 133.2 | 104 | 3.765E-08 | 2.498E-07 | 3267 |
| 134.2 | 8 | 3.125E-09 | 2.062E-08 | 3268 |
| 135.2 | 27 | 1.007E-08 | 6.645E-08 | 3270 |
| 136.2 | 4 | 1.505E-09 | 9.930E-09 | 3271 |
| 137.1 | 6 | 2.199E-09 | 1.451E-08 | 3272 |

CROSSWIND INTEGRATED= 6.809E-04 SEC/SQ.M 4.494E-03 1/M

ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 2.784E-10 | 1.422E-09 | 4920 |
| 112.0 | 39 | 1.311E-08 | 6.686E-08 | 4990 |
| 114.0 | 51 | 1.701E-08 | 8.677E-08 | 5080 |
| 116.0 | 1017 | 3.390E-07 | 1.729E-06 | 5020 |
| 118.0 | 2383 | 7.945E-07 | 4.052E-06 | 5100 |
| E 120.0 | 3739 | 1.246E-06 | 6.357E-06 | 5130 |
| 122.0 | 9563 | 3.188E-06 | 1.626E-05 | 4830 |
| 124.0 | 924 | 3.082E-07 | 1.572E-06 | 4660 |
| 126.0 | 102 | 3.431E-08 | 1.750E-07 | 4770 |
| 128.0 | 12 | 4.044E-09 | 2.063E-08 | 4900 |
| 130.0 | 5 | 1.652E-09 | 9.957E-09 | 4970 |
| 132.0 | 0 | 0. | 0. | 4980 |

CROSSWIND INTEGRATED= 1.024E-03 SEC/SQ.M 5.221E-03 1/M

FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 112.0 | 2 | 8.029E-10 | 5.299E-09 | 4990 |
| 114.0 | 2 | 7.351E-10 | 4.852E-09 | 5080 |
| 116.0 | 76 | 2.762E-08 | 1.823E-07 | 5020 |
| 118.0 | 195 | 7.059E-08 | 4.659E-07 | 5100 |
| Q 120.0 | 379 | 1.371E-07 | 9.049E-07 | 5130 |
| 122.0 | 1438 | 5.194E-07 | 3.428E-06 | 4830 |
| 124.0 | 1004 | 3.627E-07 | 2.394E-06 | 4660 |
| 126.0 | 2825 | 1.021E-06 | 6.736E-06 | 4770 |
| 128.0 | 646 | 3.057E-07 | 2.018E-06 | 4900 |
| 130.0 | 264 | 9.547E-08 | 6.301E-07 | 4970 |
| 132.0 | 11 | 4.094E-09 | 2.702E-08 | 4980 |
| 134.0 | 0 | 0. | 0. | 4990 |

CROSSWIND INTEGRATED= 4.293E-04 SEC/SQ.M 2.827E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.0 | 0 | 0. | 0. | 6800 |
| 110.0 | 2 | 8.367E-10 | 4.267E-09 | 7000 |
| 112.0 | 162 | 5.429E-08 | 2.767E-07 | 7300 |
| 114.0 | 696 | 2.322E-07 | 1.184E-06 | 7210 |
| 116.0 | 1491 | 4.973E-07 | 2.536E-06 | 7220 |
| 118.0 | 2462 | 8.209E-07 | 4.186E-06 | 7190 |
| 120.0 | 4720 | 1.574E-06 | 8.025E-06 | 7150 |
| 122.0 | 3935 | 1.312E-06 | 6.691E-06 | 7120 |
| 4 124.0 | 1101 | 3.672E-07 | 1.873E-06 | 7100 |
| 126.0 | 338 | 1.128E-07 | 5.754E-07 | 7100 |
| 4 128.0 | 50 | 1.032E-08 | 5.263E-08 | 7100 |
| 130.0 | 0 | 0. | 0. | 7130 |

CROSSWIND INTEGRATED= 1.244E-03 SEC/SQ.M 6.345E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 1 | 5.089E-10 | 3.359E-09 | 7000 |
| 112.0 | 4 | 1.753E-09 | 1.157E-08 | 7300 |
| 114.0 | 9 | 3.449E-09 | 2.276E-08 | 7210 |
| 116.0 | 54 | 1.951E-08 | 1.288E-07 | 7220 |
| 118.0 | 219 | 7.911E-08 | 5.221E-07 | 7190 |
| 120.0 | 726 | 2.624E-07 | 1.732E-06 | 7150 |
| 122.0 | 1417 | 5.118E-07 | 3.376E-06 | 7120 |
| 4 124.0 | 2232 | 8.063E-07 | 5.321E-06 | 7100 |
| 126.0 | 2429 | 8.775E-07 | 5.792E-06 | 7100 |
| 4 128.0 | 608 | 2.197E-07 | 1.450E-06 | 7100 |
| 130.0 | 52 | 1.863E-08 | 1.243E-07 | 7130 |
| 5 132.0 | 0 | 0. | 0. | 7150 |
| 134.0 | 0 | 0. | 0. | 7200 |

CROSSWIND INTEGRATED= 6.953E-04 SEC/SQ.M 4.589E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12000M ARC SAMPLER HT 1.5M U= 5.1 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 2.784E-10 | 1.422E-09 | 12800 |
| 101.0 | 7 | 2.655E-09 | 1.351E-08 | 12800 |
| 102.0 | 0 | 0. | 0. | 12800 |
| 103.0 | 6 | 2.231E-09 | 1.136E-08 | 12800 |
| 104.0 | 61 | 2.036E-08 | 1.036E-07 | 12800 |
| Y 105.0 | 2 | 8.367E-10 | 4.267E-09 | 12800 |
| 7 106.0 | 45 | 1.508E-08 | 7.681E-08 | 12800 |
| 107.0 | 192 | 6.429E-08 | 3.273E-07 | 12800 |
| 108.0 | 150 | 5.028E-08 | 2.560E-07 | 12800 |
| E 109.0 | 212 | 7.070E-08 | 3.600E-07 | 12800 |
| 110.0 | 303 | 1.012E-07 | 5.154E-07 | 12800 |
| 111.0 | 71 | 2.381E-08 | 1.213E-07 | 12800 |
| 112.0 | 330 | 1.105E-07 | 5.626E-07 | 12800 |
| 113.0 | 285 | 9.525E-08 | 4.850E-07 | 12800 |
| E 114.0 | 223 | 7.447E-08 | 3.792E-07 | 12800 |
| 115.0 | 203 | 6.792E-08 | 3.458E-07 | 12800 |
| 116.0 | 255 | 8.527E-08 | 4.339E-07 | 12800 |
| 117.0 | 241 | 8.047E-08 | 4.104E-07 | 12800 |
| 118.0 | 34 | 1.157E-08 | 5.903E-08 | 12800 |
| 119.0 | 18 | 6.136E-09 | 3.129E-08 | 12800 |
| 120.0 | 10 | 3.446E-09 | 1.776E-08 | 12800 |
| 121.0 | 5 | 1.813E-09 | 9.246E-09 | 12800 |
| 122.0 | 0 | 1.395E-10 | 7.112E-10 | 12800 |

CROSSWIND INTEGRATED= 1.965E-04 SEC/SQ.M 1.012E-03 1/M

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12000M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 101.0 | 0 | 0. | 0. | 12800 |
| 102.0 | 1 | 3.955E-10 | 2.012E-09 | 12800 |
| 103.0 | 5 | 1.979E-09 | 1.006E-08 | 12800 |
| 104.0 | 22 | 8.199E-09 | 5.411E-08 | 12800 |
| 9 105.0 | 35 | 1.295E-08 | 8.546E-08 | 12800 |
| 7 106.0 | 64 | 2.335E-08 | 1.541E-07 | 12800 |
| 107.0 | 83 | 3.014E-08 | 1.989E-07 | 12800 |
| 108.0 | 124 | 4.434E-08 | 2.959E-07 | 12800 |
| E 109.0 | 130 | 4.710E-08 | 3.109E-07 | 12800 |
| 110.0 | 133 | 4.823E-08 | 3.183E-07 | 12800 |
| 4 111.0 | 164 | 5.954E-08 | 3.930E-07 | 12800 |
| 112.0 | 205 | 7.424E-08 | 4.900E-07 | 12800 |
| 113.0 | 377 | 1.364E-07 | 9.005E-07 | 12800 |
| 4 114.0 | 575 | 2.077E-07 | 1.371E-06 | 12800 |
| 115.0 | 622 | 2.247E-07 | 1.483E-06 | 12800 |
| 116.0 | 516 | 1.873E-07 | 1.236E-06 | 12800 |
| 117.0 | 622 | 2.247E-07 | 1.483E-06 | 12800 |
| 118.0 | 349 | 1.263E-07 | 8.333E-07 | 12800 |
| 119.0 | 528 | 1.957E-07 | 1.291E-06 | 12800 |
| 120.0 | 240 | 8.668E-08 | 5.721E-07 | 12800 |
| 121.0 | 139 | 5.044E-08 | 3.333E-07 | 12800 |
| 122.0 | 102 | 3.692E-08 | 2.437E-07 | 12800 |
| 123.0 | 12 | 4.693E-09 | 3.096E-08 | 12800 |
| 124.0 | 7 | 2.654E-09 | 1.751E-08 | 12800 |
| 125.0 | 0 | 1.695E-10 | 1.120E-09 | 12800 |

CROSSWIND INTEGRATED= 4.059E-04 SEC/SQ.M 2.699E-03 1/M

1202818



U7

SAMPLING 400M TO 3200M. NO TOWER SAMPLING. ALL ARCS TRUNCATED FOR ZNS RELEASE FROM 26M. SOME ARCS TRUNCATED FOR FLUORESCEIN RELEASE FROM 56M. TRACER "SMEARED" WIDELY IN CROSSWIND DIRECTION. THERMALLY VERY STABLE ATMOSPHERE. EQUIPMENT DIFFICULTIES DURING FLUORESCEIN ASSAY.

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 46.0 | 2831 | 9.867E-07 | 2.171E-06 | 400 |
| R | 50.0 | 762 | 2.657E-07 | 5.845E-07 | 400 |
| | 54.0 | 4368 | 1.522E-06 | 3.349E-06 | 400 |
| | 58.0 | 4135 | 1.441E-06 | 3.170E-06 | 400 |
| | 62.0 | 3114 | 1.085E-06 | 2.388E-06 | 400 |
| | 66.0 | 4202 | 1.464E-06 | 3.221E-06 | 400 |
| | 70.0 | 3657 | 1.275E-06 | 2.804E-06 | 400 |
| | 74.0 | 3849 | 1.341E-06 | 2.951E-06 | 400 |
| | 78.0 | 4288 | 1.494E-06 | 3.288E-06 | 400 |
| 4 | 82.0 | 3058 | 1.066E-06 | 2.345E-06 | 400 |
| | 86.0 | 4982 | 1.736E-06 | 3.819E-06 | 400 |
| | 90.0 | 6512 | 2.269E-06 | 4.992E-06 | 400 |
| | 94.0 | 5940 | 2.070E-06 | 4.554E-06 | 400 |
| | 98.0 | 8700 | 3.032E-06 | 6.669E-06 | 400 |
| | 102.0 | 9709 | 3.383E-06 | 7.443E-06 | 400 |
| | 106.0 | 9747 | 3.396E-06 | 7.472E-06 | 400 |
| | 110.0 | 10576 | 3.685E-06 | 8.107E-06 | 400 |
| 9 | 114.0 | 12820 | 4.467E-06 | 9.828E-06 | 400 |
| | 118.0 | 34841 | 1.214E-05 | 2.671E-05 | 400 |
| | 122.0 | 24849 | 8.658E-06 | 1.905E-05 | 400 |
| | 126.0 | 77870 | 2.713E-05 | 5.969E-05 | 400 |
| | 130.0 | 34781 | 1.212E-05 | 2.666E-05 | 400 |
| | 134.0 | 17993 | 6.269E-06 | 1.379E-05 | 400 |
| | 138.0 | 5981 | 2.084E-06 | 4.585E-06 | 400 |
| | 142.0 | 8546 | 2.978E-06 | 6.551E-06 | 400 |
| | 146.0 | 3150 | 1.098E-06 | 2.415E-06 | 400 |
| | 150.0 | 3475 | 1.211E-06 | 2.664E-06 | 400 |
| B | 154.0 | 3766 | 1.312E-06 | 2.887E-06 | 400 |

CROSSWIND INTEGRATED= 3.099E-03 SEC/SQ.M 6.818E-03 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 74.0 | 0 | 1.162E-11 | 3.254E-11 | 400 |
| | 78.0 | 0 | 1.046E-10 | 2.929E-10 | 400 |
| 4 | 82.0 | 5 | 1.976E-09 | 5.532E-09 | 400 |
| | 86.0 | 21 | 7.554E-09 | 2.115E-08 | 400 |
| | 90.0 | 7 | 2.673E-09 | 7.485E-09 | 400 |
| | 94.0 | 0 | 2.324E-10 | 6.508E-10 | 400 |
| | 98.0 | 0 | 3.487E-11 | 9.763E-11 | 400 |
| | 102.0 | 89 | 3.208E-08 | 8.982E-08 | 400 |
| | 106.0 | 167 | 5.997E-08 | 1.679E-07 | 400 |
| | 110.0 | 89 | 3.208E-08 | 8.982E-08 | 400 |
| 9 | 114.0 | 95 | 3.440E-08 | 9.633E-08 | 400 |
| | 118.0 | 112 | 4.021E-08 | 1.126E-07 | 400 |
| | 122.0 | 3 | 1.240E-09 | 3.471E-09 | 400 |
| | 126.0 | 1383 | 4.958E-07 | 1.388E-06 | 400 |
| | 130.0 | 3607 | 1.293E-06 | 3.621E-06 | 400 |
| | 134.0 | 0 | 1.162E-10 | 3.254E-10 | 400 |
| | 138.0 | 0 | 2.324E-10 | 6.508E-10 | 400 |

CROSSWIND INTEGRATED= 5.590E-05 SEC/SQ.M 1.565E-04 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 40.0 | 1669 | 5.817E-07 | 1.280E-06 | 800 |
| | 43.0 | 2021 | 7.044E-07 | 1.550E-06 | 800 |
| | 46.0 | 2031 | 7.079E-07 | 1.557E-06 | 800 |
| | 49.0 | 2135 | 7.442E-07 | 1.637E-06 | 800 |
| | 52.0 | 2014 | 7.019E-07 | 1.544E-06 | 800 |
| | 55.0 | 2170 | 7.563E-07 | 1.664E-06 | 800 |
| | 58.0 | 2914 | 1.015E-06 | 2.234E-06 | 800 |
| | 61.0 | 2700 | 9.409E-07 | 2.070E-06 | 800 |
| | 64.0 | 2895 | 1.009E-06 | 2.219E-06 | 800 |
| 4 | 67.0 | 2101 | 7.321E-07 | 1.611E-06 | 800 |
| | 70.0 | 3948 | 1.376E-06 | 3.026E-06 | 800 |
| | 73.0 | 3428 | 1.195E-06 | 2.628E-06 | 800 |
| | 76.0 | 4163 | 1.451E-06 | 3.191E-06 | 800 |
| | 79.0 | 4192 | 1.461E-06 | 3.213E-06 | 800 |
| | 82.0 | 6398 | 2.230E-06 | 4.905E-06 | 800 |
| | 85.0 | 5640 | 1.965E-06 | 4.324E-06 | 800 |
| | 88.0 | 5488 | 1.913E-06 | 4.208E-06 | 800 |
| | 91.0 | 6792 | 2.367E-06 | 5.207E-06 | 800 |
| | 94.0 | 6255 | 2.180E-06 | 4.795E-06 | 800 |
| | 97.0 | 8687 | 3.027E-06 | 6.659E-06 | 800 |
| | 97.1 | 10450 | 3.641E-06 | 8.011E-06 | 806 |
| | 99.1 | 10208 | 3.557E-06 | 7.825E-06 | 809 |
| | 101.1 | 8021 | 2.795E-06 | 6.149E-06 | 813 |
| | 103.0 | 6512 | 2.269E-06 | 4.992E-06 | 816 |
| | 105.0 | 10796 | 3.762E-06 | 8.276E-06 | 820 |
| | 106.9 | 9647 | 3.362E-06 | 7.396E-06 | 823 |
| | 108.8 | 10422 | 3.632E-06 | 7.990E-06 | 826 |
| E | 110.7 | 11821 | 4.119E-06 | 9.062E-06 | 829 |
| | 112.6 | 13284 | 4.629E-06 | 1.018E-05 | 833 |
| | 114.5 | 32457 | 1.131E-05 | 2.486E-05 | 836 |
| | 116.4 | 37744 | 1.315E-05 | 2.893E-05 | 839 |
| | 118.3 | 39029 | 1.360E-05 | 2.992E-05 | 842 |
| | 120.2 | 43482 | 1.515E-05 | 3.333E-05 | 845 |
| | 122.1 | 41239 | 1.437E-05 | 3.161E-05 | 848 |
| | 124.0 | 48982 | 1.707E-05 | 3.755E-05 | 851 |
| | 125.8 | 64354 | 2.242E-05 | 4.933E-05 | 854 |
| | 127.7 | 70118 | 2.443E-05 | 5.375E-05 | 857 |

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 64.0 | 0 | 0. | 0. | 800 |
| | 67.0 | 3 | 1.278E-09 | 3.580E-09 | 800 |
| | 70.0 | 0 | 3.254E-10 | 9.112E-10 | 800 |
| | 73.0 | 1 | 6.973E-10 | 1.953E-09 | 800 |
| | 76.0 | 0 | 2.673E-10 | 7.485E-10 | 800 |
| | 79.0 | 0 | 4.649E-11 | 1.302E-10 | 800 |
| | 82.0 | 2 | 7.361E-10 | 2.061E-09 | 800 |
| | 85.0 | 2 | 8.136E-10 | 2.278E-09 | 800 |
| | 88.0 | 2 | 7.361E-10 | 2.061E-09 | 800 |
| | 91.0 | 2 | 8.910E-10 | 2.495E-09 | 800 |
| | 94.0 | 2 | 8.910E-10 | 2.495E-09 | 800 |
| | 97.0 | 3 | 1.162E-09 | 3.254E-09 | 800 |
| | 97.1 | 2 | 1.066E-09 | 2.983E-09 | 806 |
| | 99.1 | 4 | 1.541E-09 | 4.313E-09 | 809 |
| | 101.1 | 12 | 4.622E-09 | 1.294E-08 | 813 |
| | 103.0 | 18 | 6.676E-09 | 1.869E-08 | 816 |
| | 105.0 | 0 | 0. | 0. | 820 |
| | 106.9 | 1 | 3.263E-10 | 1.474E-09 | 823 |
| | 108.8 | 17 | 6.419E-09 | 1.797E-08 | 826 |
| Z | 110.7 | 0 | 0. | 0. | 829 |
| | 112.6 | 16 | 6.034E-09 | 1.689E-08 | 833 |
| | 114.5 | 1177 | 4.220E-07 | 1.182E-06 | 836 |
| | 116.4 | 11 | 4.103E-09 | 1.150E-08 | 839 |
| | 118.3 | 962 | 3.449E-07 | 9.659E-07 | 842 |
| | 120.2 | 29 | 1.066E-08 | 2.983E-08 | 845 |
| | 122.1 | 1678 | 6.017E-07 | 1.685E-06 | 848 |
| | 124.0 | 9246 | 3.314E-06 | 9.280E-06 | 851 |
| | 125.8 | 14436 | 5.174E-06 | 1.449E-05 | 854 |
| | 127.7 | 8569 | 3.072E-06 | 8.601E-06 | 857 |

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| | | | | |
|---|---|---|---|---|
| 129.5 | 119111 | 4.150E-05 | 9.131E-05 | 859 |
| 131.4 | 49935 | 1.740E-05 | 3.828E-05 | 862 |
| 133.2 | 62294 | 2.171E-05 | 4.775E-05 | 865 |
| 135.0 | 59970 | 2.090E-05 | 4.597E-05 | 867 |
| E 136.8 | 54515 | 1.899E-05 | 4.179E-05 | 869 |
| E 138.7 | 43609 | 1.520E-05 | 3.343E-05 | 872 |
| E 140.6 | 32703 | 1.140E-05 | 2.507E-05 | 874 |
| E 142.4 | 27745 | 9.667E-06 | 2.127E-05 | 876 |
| E 144.2 | 26369 | 9.188E-06 | 2.021E-05 | 878 |
| 146.0 | 21975 | 7.657E-06 | 1.685E-05 | 880 |
| 147.8 | 15481 | 5.394E-06 | 1.187E-05 | 882 |
| 149.6 | 17878 | 6.229E-06 | 1.370E-05 | 884 |
| 151.4 | 15012 | 5.231E-06 | 1.151E-05 | 886 |
| 153.2 | 13084 | 4.559E-06 | 1.003E-05 | 887 |
| 155.0 | 10071 | 3.509E-06 | 7.721E-06 | 889 |
| 156.8 | 7018 | 2.445E-06 | 5.380E-06 | 890 |
| 158.6 | 5851 | 2.039E-06 | 4.486E-06 | 892 |
| 160.4 | 5541 | 1.931E-06 | 4.248E-06 | 893 |
| B 162.2 | 5787 | 2.017E-06 | 4.437E-06 | 894 |

CROSSWIND INTEGRATED= 1.130E-02 SEC/SQ.M  2.487E-02 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 48.0 | 1560 | 5.436E-07 | 1.196E-06 | 1200 |
| 50.0 | 1996 | 6.957E-07 | 1.531E-06 | 1200 |
| 52.0 | 2027 | 7.064E-07 | 1.554E-06 | 1200 |
| 54.0 | 1873 | 6.528E-07 | 1.436E-06 | 1200 |
| 56.0 | 2165 | 7.546E-07 | 1.660E-06 | 1200 |
| 58.0 | 2152 | 7.502E-07 | 1.650E-06 | 1200 |
| 60.0 | 2166 | 7.549E-07 | 1.661E-06 | 1200 |
| 62.0 | 2106 | 7.339E-07 | 1.615E-06 | 1200 |
| 64.0 | 1682 | 5.863E-07 | 1.290E-06 | 1200 |
| 66.0 | 2524 | 8.795E-07 | 1.935E-06 | 1200 |
| 68.0 | 2544 | 8.865E-07 | 1.950E-06 | 1200 |
| 70.0 | 2483 | 8.655E-07 | 1.904E-06 | 1200 |
| 72.0 | 1911 | 6.660E-07 | 1.465E-06 | 1200 |
| 74.0 | 2567 | 8.947E-07 | 1.966E-06 | 1200 |
| 76.0 | 2446 | 8.526E-07 | 1.876E-06 | 1200 |
| 78.0 | 2463 | 8.585E-07 | 1.889E-06 | 1200 |
| 80.0 | 2482 | 8.649E-07 | 1.903E-06 | 1200 |
| 82.0 | 3680 | 1.283E-06 | 2.822E-06 | 1200 |
| E 84.0 | 3622 | 1.262E-06 | 2.777E-06 | 1200 |
| E 86.0 | 3633 | 1.266E-06 | 2.785E-06 | 1200 |
| 88.0 | 3568 | 1.244E-06 | 2.736E-06 | 1200 |
| 90.0 | 5279 | 1.840E-06 | 4.047E-06 | 1200 |
| 92.0 | 4507 | 1.570E-06 | 3.455E-06 | 1200 |
| 94.0 | 4966 | 1.730E-06 | 3.807E-06 | 1200 |
| 96.0 | 4887 | 1.703E-06 | 3.746E-06 | 1200 |
| 98.0 | 5842 | 2.036E-06 | 4.479E-06 | 1200 |
| 100.0 | 6412 | 2.234E-06 | 4.916E-06 | 1200 |
| 102.0 | 8097 | 2.822E-06 | 6.207E-06 | 1200 |
| 104.0 | 7578 | 2.641E-06 | 5.809E-06 | 1200 |
| 106.0 | 10200 | 3.554E-06 | 7.820E-06 | 1200 |
| 108.0 | 8149 | 2.840E-06 | 6.247E-06 | 1200 |
| 110.0 | 10887 | 3.793E-06 | 8.346E-06 | 1200 |
| 112.0 | 7526 | 2.622E-06 | 5.769E-06 | 1200 |
| 114.0 | 12298 | 4.285E-06 | 9.427E-06 | 1200 |
| E 116.0 | 18610 | 6.484E-06 | 1.427E-05 | 1200 |
| 118.0 | 26121 | 9.101E-06 | 2.002E-05 | 1200 |
| 6 120.0 | 15506 | 5.403E-06 | 1.189E-05 | 1200 |
| 122.0 | 34132 | 1.189E-05 | 2.616E-05 | 1200 |
| 124.0 | 30405 | 1.059E-05 | 2.331E-05 | 1200 |
| 126.0 | 37528 | 1.308E-05 | 2.877E-05 | 1200 |
| 128.0 | 32127 | 1.119E-05 | 2.463E-05 | 1200 |
| 130.0 | 27642 | 9.632E-06 | 2.119E-05 | 1200 |
| 4 132.0 | 30934 | 1.078E-05 | 2.371E-05 | 1200 |
| 134.0 | 34457 | 1.201E-05 | 2.641E-05 | 1200 |
| 6 136.0 | 34186 | 1.191E-05 | 2.621E-05 | 1200 |
| 138.0 | 33239 | 1.158E-05 | 2.548E-05 | 1200 |
| F 140.0 | 18625 | 6.490E-06 | 1.428E-05 | 1200 |
| 142.0 | 17825 | 6.211E-06 | 1.366E-05 | 1200 |
| E 144.0 | 17954 | 6.256E-06 | 1.376E-05 | 1200 |
| 146.0 | 10763 | 3.750E-06 | 8.251E-06 | 1200 |
| 7 148.0 | 4490 | 1.565E-06 | 3.442E-06 | 1200 |
| 150.0 | 9714 | 3.385E-06 | 7.447E-06 | 1200 |
| 152.0 | 6991 | 2.436E-06 | 5.359E-06 | 1200 |
| 154.0 | 4546 | 1.584E-06 | 3.485E-06 | 1200 |
| B 156.0 | 530 | 1.849E-07 | 4.069E-07 | 1200 |

CROSSWIND INTEGRATED= 8.679E-03 SEC/SQ.M  1.909E-02 1/M

| | | | | |
|---|---|---|---|---|
| 129.5 | 18082 | 6.481E-06 | 1.815E-05 | 859 |
| 131.4 | 61854 | 2.217E-05 | 6.205E-05 | 862 |
| 133.2 | 47746 | 1.711E-05 | 4.792E-05 | 865 |
| 134.9 | 6990 | 2.506E-06 | 7.015E-06 | 867 |
| F 136.9 | 1678 | 6.017E-07 | 1.685E-06 | 870 |
| E 138.7 | 389 | 1.395E-07 | 3.907E-07 | 872 |
| F 140.6 | 84 | 3.043E-08 | 8.519E-08 | 874 |
| E 142.4 | 41 | 1.502E-08 | 4.206E-08 | 876 |
| E 144.2 | 17 | 6.419E-09 | 1.797E-08 | 878 |
| 146.0 | 0 | 1.412E-10 | 3.954E-10 | 880 |

CROSSWIND INTEGRATED= 1.700E-03 SEC/SQ.M  4.761E-03 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 1200 |
| 94.0 | 0 | 0. | 0. | 1200 |
| 96.0 | 43 | 1.556E-08 | 4.356E-08 | 1200 |
| 98.0 | 88 | 3.176E-08 | 8.894E-08 | 1200 |
| 100.0 | 148 | 5.337E-08 | 1.494E-07 | 1200 |
| 102.0 | 160 | 5.769E-08 | 1.615E-07 | 1200 |
| 104.0 | 420 | 1.506E-07 | 4.217E-07 | 1200 |
| 106.0 | 438 | 1.571E-07 | 4.399E-07 | 1200 |
| 108.0 | 245 | 8.794E-08 | 2.462E-07 | 1200 |
| 110.0 | 377 | 1.355E-07 | 3.793E-07 | 1200 |
| 4 112.0 | 390 | 1.400E-07 | 3.921E-07 | 1200 |
| 114.0 | 1935 | 6.936E-07 | 1.942E-06 | 1200 |
| 9 116.0 | 1099 | 3.941E-07 | 1.104E-06 | 1200 |
| 118.0 | 1441 | 5.166E-07 | 1.447E-06 | 1200 |
| 6 120.0 | 1327 | 4.758E-07 | 1.332E-06 | 1200 |
| 122.0 | 719 | 2.580E-07 | 7.224E-07 | 1200 |
| 124.0 | 517 | 1.854E-07 | 5.191E-07 | 1200 |
| 126.0 | 1251 | 4.486E-07 | 1.256E-06 | 1200 |
| 128.0 | 6581 | 2.359E-06 | 6.605E-06 | 1200 |
| 130.0 | 8583 | 3.077E-06 | 8.614E-06 | 1200 |
| 4 132.0 | 23627 | 8.469E-06 | 2.371E-05 | 1200 |
| 134.0 | 31503 | 1.129E-05 | 3.162E-05 | 1200 |
| 6 136.0 | 2656 | 9.523E-07 | 2.666E-06 | 1200 |
| 138.0 | 466 | 1.672E-07 | 4.683E-07 | 1200 |
| 0 140.0 | 947 | 3.397E-07 | 9.511E-07 | 1200 |
| 142.0 | 812 | 2.911E-07 | 8.150E-07 | 1200 |
| 0 144.0 | 335 | 1.204E-07 | 3.370E-07 | 1200 |
| 146.0 | 649 | 2.327E-07 | 6.516E-07 | 1200 |
| 7 148.0 | 209 | 7.498E-08 | 2.099E-07 | 1200 |
| 150.0 | 27 | 9.940E-09 | 2.783E-08 | 1200 |
| 152.0 | 41 | 1.491E-08 | 4.175E-08 | 1200 |
| 154.0 | 9 | 3.436E-09 | 9.620E-09 | 1200 |
| 156.0 | 11 | 4.106E-09 | 1.150E-08 | 1200 |

CROSSWIND INTEGRATED= 1.307E-03 SEC/SQ.M  3.660E-03 1/M

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TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | L/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 372 | 1.297E-07 | 2.852E-07 | 1600 |
| | 50.0 | 581 | 2.026E-07 | 4.458E-07 | 1600 |
| | 52.0 | 509 | 1.774E-07 | 3.902E-07 | 1600 |
| | 54.0 | 644 | 2.245E-07 | 4.939E-07 | 1600 |
| | 56.0 | 736 | 2.568E-07 | 5.649E-07 | 1600 |
| | 58.0 | 895 | 3.121E-07 | 6.866E-07 | 1600 |
| | 60.0 | 760 | 2.649E-07 | 5.828E-07 | 1600 |
| | 62.0 | 1229 | 4.283E-07 | 9.422E-07 | 1600 |
| | 64.0 | 1341 | 4.673E-07 | 1.028E-06 | 1600 |
| | 66.0 | 1715 | 5.978E-07 | 1.315E-06 | 1600 |
| | 68.0 | 1621 | 5.649E-07 | 1.243E-06 | 1600 |
| | 70.0 | 1560 | 5.436E-07 | 1.196E-06 | 1600 |
| S | 72.0 | 789 | 2.750E-07 | 6.051E-07 | 1600 |
| | 74.0 | 1755 | 6.118E-07 | 1.346E-06 | 1600 |
| | 76.0 | 2211 | 7.706E-07 | 1.695E-06 | 1600 |
| | 78.0 | 2059 | 7.176E-07 | 1.579E-06 | 1600 |
| | 80.0 | 1325 | 4.619E-07 | 1.016E-06 | 1600 |
| | 82.0 | 1971 | 6.870E-07 | 1.511E-06 | 1600 |
| W | 84.0 | 1822 | 6.351E-07 | 1.397E-06 | 1600 |
| W | 86.0 | 2899 | 1.010E-06 | 2.223E-06 | 1600 |
| | 88.0 | 2230 | 7.771E-07 | 1.710E-06 | 1600 |
| | 90.0 | 3583 | 1.249E-06 | 2.747E-06 | 1600 |
| | 92.0 | 3503 | 1.221E-06 | 2.686E-06 | 1600 |
| | 93.6 | 4105 | 1.431E-06 | 3.147E-06 | 1603 |
| | 94.0 | 3965 | 1.382E-06 | 3.040E-06 | 1600 |
| | 94.6 | 6149 | 2.143E-06 | 4.714E-06 | 1604 |
| | 95.6 | 5818 | 2.027E-06 | 4.460E-06 | 1606 |
| | 96.6 | 6227 | 2.170E-06 | 4.774E-06 | 1608 |
| | 97.6 | 7817 | 2.724E-06 | 5.992E-06 | 1610 |
| | 98.6 | 6095 | 2.124E-06 | 4.672E-06 | 1611 |
| | 99.6 | 7501 | 2.614E-06 | 5.750E-06 | 1613 |
| | 100.6 | 9247 | 3.222E-06 | 7.089E-06 | 1615 |
| E | 101.6 | 8418 | 2.933E-06 | 6.453E-06 | 1617 |
| E | 102.6 | 7820 | 2.725E-06 | 5.995E-06 | 1618 |
| E | 103.6 | 7309 | 2.547E-06 | 5.603E-06 | 1620 |
| E | 104.5 | 6657 | 2.320E-06 | 5.103E-06 | 1622 |
| E | 105.5 | 6654 | 2.319E-06 | 5.101E-06 | 1623 |
| | 106.5 | 6678 | 2.327E-06 | 5.119E-06 | 1625 |
| | 107.5 | 6101 | 2.126E-06 | 4.677E-06 | 1627 |
| | 108.5 | 6275 | 2.187E-06 | 4.811E-06 | 1628 |
| | 109.5 | 6527 | 2.275E-06 | 5.004E-06 | 1630 |
| | 110.4 | 7228 | 2.519E-06 | 5.541E-06 | 1632 |
| | 111.4 | 6882 | 2.398E-06 | 5.276E-06 | 1633 |
| | 112.4 | 5617 | 1.957E-06 | 4.306E-06 | 1635 |
| | 113.4 | 5932 | 2.067E-06 | 4.548E-06 | 1637 |
| | 114.4 | 6329 | 2.205E-06 | 4.852E-06 | 1638 |
| | 115.3 | 8853 | 3.078E-06 | 6.771E-06 | 1640 |
| | 116.3 | 10221 | 3.562E-06 | 7.836E-06 | 1641 |
| | 117.3 | 11231 | 3.913E-06 | 8.610E-06 | 1643 |
| | 118.2 | 19370 | 6.749E-06 | 1.485E-05 | 1644 |
| | 119.2 | 28378 | 9.888E-06 | 2.175E-05 | 1646 |
| | 120.2 | 42837 | 1.493E-05 | 3.284E-05 | 1647 |
| | 121.2 | 51770 | 1.804E-05 | 3.968E-05 | 1649 |
| | 122.1 | 50721 | 1.767E-05 | 3.888E-05 | 1650 |
| | 123.1 | 45398 | 1.582E-05 | 3.480E-05 | 1652 |
| | 124.1 | 46600 | 1.624E-05 | 3.572E-05 | 1653 |
| | 125.0 | 41713 | 1.453E-05 | 3.198E-05 | 1655 |
| | 126.0 | 48436 | 1.688E-05 | 3.713E-05 | 1656 |
| | 126.9 | 44734 | 1.559E-05 | 3.429E-05 | 1658 |
| | 127.8 | 54643 | 1.904E-05 | 4.189E-05 | 1659 |
| | 128.8 | 47820 | 1.666E-05 | 3.666E-05 | 1660 |
| | 129.7 | 36892 | 1.285E-05 | 2.828E-05 | 1662 |
| | 130.6 | 36820 | 1.283E-05 | 2.822E-05 | 1663 |
| | 131.5 | 47871 | 1.668E-05 | 3.670E-05 | 1664 |
| | 132.5 | 41310 | 1.439E-05 | 3.167E-05 | 1665 |
| | 133.5 | 31134 | 1.085E-05 | 2.387E-05 | 1667 |
| | 134.4 | 43667 | 1.522E-05 | 3.347E-05 | 1668 |
| | 135.4 | 38891 | 1.355E-05 | 2.981E-05 | 1669 |
| | 136.4 | 27777 | 9.678E-06 | 2.129E-05 | 1670 |
| | 137.3 | 3777 | 1.316E-06 | 2.896E-06 | 1672 |
| | 138.3 | 27260 | 9.498E-06 | 2.090E-05 | 1673 |
| | 139.3 | 16515 | 5.754E-06 | 1.266E-05 | 1674 |
| | 140.2 | 20007 | 6.971E-06 | 1.534E-05 | 1675 |
| | 141.2 | 16770 | 5.843E-06 | 1.286E-05 | 1676 |
| | 142.2 | 11706 | 4.079E-06 | 8.974E-06 | 1677 |
| | 143.1 | 13554 | 4.723E-06 | 1.039E-05 | 1678 |
| | 144.1 | 9560 | 3.331E-06 | 7.329E-06 | 1679 |
| | 145.1 | 8169 | 2.846E-06 | 6.262E-06 | 1680 |

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | L/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 96.6 | 0 | 0. | 0. | 1600 |
| | 99.6 | 0 | 2.540E-10 | 7.112E-10 | 1613 |
| | 100.6 | 16 | 5.740E-09 | 1.607E-08 | 1615 |
| E | 101.6 | 36 | 1.311E-08 | 3.670E-08 | 1617 |
| E | 102.6 | 18 | 6.502E-09 | 1.821E-08 | 1618 |
| E | 103.6 | 20 | 7.518E-09 | 2.105E-08 | 1620 |
| E | 104.5 | 20 | 7.518E-09 | 2.105E-08 | 1622 |
| E | 105.5 | 102 | 3.673E-08 | 1.028E-07 | 1623 |
| | 106.5 | 1295 | 4.643E-07 | 1.300E-06 | 1625 |
| | 107.5 | 0 | 0. | 0. | 1627 |
| | 108.5 | 400 | 1.434E-07 | 4.015E-07 | 1628 |
| | 109.5 | 140 | 5.027E-08 | 1.406E-07 | 1630 |
| | 110.4 | 563 | 2.018E-07 | 5.651E-07 | 1632 |
| | 111.4 | 215 | 7.736E-08 | 2.166E-07 | 1633 |
| | 112.4 | 67 | 2.403E-08 | 6.728E-08 | 1635 |
| | 113.4 | 563 | 2.018E-07 | 5.651E-07 | 1637 |
| | 114.4 | 350 | 1.256E-07 | 3.517E-07 | 1638 |
| | 115.3 | 941 | 3.373E-07 | 9.444E-07 | 1640 |
| | 116.3 | 1059 | 3.796E-07 | 1.063E-06 | 1641 |
| | 117.3 | 775 | 2.780E-07 | 7.784E-07 | 1643 |
| | 118.2 | 12 | 4.470E-09 | 1.252E-08 | 1644 |
| | 119.2 | 1035 | 3.711E-07 | 1.039E-06 | 1646 |
| | 120.2 | 1602 | 5.743E-07 | 1.608E-06 | 1647 |
| | 121.2 | 2759 | 9.892E-07 | 2.770E-06 | 1649 |
| | 122.1 | 846 | 3.034E-07 | 8.496E-07 | 1650 |
| | 123.1 | 1271 | 4.558E-07 | 1.276E-06 | 1652 |
| | 124.1 | 610 | 2.187E-07 | 6.125E-07 | 1653 |
| | 125.0 | 752 | 2.695E-07 | 7.547E-07 | 1655 |
| | 126.0 | 563 | 2.018E-07 | 5.651E-07 | 1656 |
| | 126.9 | 470 | 1.688E-07 | 4.726E-07 | 1658 |
| | 127.8 | 704 | 2.526E-07 | 7.073E-07 | 1659 |
| | 128.8 | 531 | 1.906E-07 | 5.338E-07 | 1660 |
| | 129.7 | 1682 | 6.031E-07 | 1.689E-06 | 1662 |
| | 130.6 | 978 | 3.507E-07 | 9.818E-07 | 1663 |
| | 131.5 | 8031 | 2.879E-06 | 8.061E-06 | 1664 |
| | 132.5 | 19837 | 7.110E-06 | 1.991E-05 | 1665 |
| | 133.5 | 22898 | 8.207E-06 | 2.298E-05 | 1667 |
| | 134.4 | 21467 | 7.694E-06 | 2.154E-05 | 1668 |
| | 135.4 | 18604 | 6.668E-06 | 1.867E-05 | 1669 |
| | 136.4 | 8775 | 3.146E-06 | 8.807E-06 | 1670 |
| | 137.3 | 903 | 3.240E-07 | 9.072E-07 | 1672 |
| | 138.3 | 5204 | 1.865E-06 | 5.223E-06 | 1673 |
| | 139.3 | 2525 | 9.054E-07 | 2.535E-06 | 1674 |
| | 140.2 | 3270 | 1.172E-06 | 3.282E-06 | 1675 |
| | 141.2 | 2674 | 9.587E-07 | 2.684E-06 | 1676 |
| | 142.2 | 1335 | 4.767E-07 | 1.340E-06 | 1677 |
| | 143.1 | 539 | 1.934E-07 | 5.414E-07 | 1678 |
| | 144.1 | 704 | 2.526E-07 | 7.073E-07 | 1679 |
| | 145.1 | 286 | 1.028E-07 | 2.877E-07 | 1680 |

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| | | | | |
|---|---|---|---|---|
| 146.0 | 8752 | 3.050E-06 | 6.709E-06 | 1681 |
| 146.9 | 5722 | 1.994E-06 | 4.387E-06 | 1682 |
| 147.9 | 3979 | 1.387E-06 | 3.050E-06 | 1683 |
| 148.8 | 1941 | 6.765E-07 | 1.488E-06 | 1684 |
| 149.7 | 814 | 2.838E-07 | 6.244E-07 | 1685 |
| 150.7 | 393 | 1.372E-07 | 3.018E-07 | 1686 |
| 151.6 | 69 | 2.409E-08 | 5.299E-08 | 1687 |
| 152.6 | 69 | 2.409E-08 | 5.299E-08 | 1688 |
| 153.5 | 57 | 1.990E-08 | 4.377E-08 | 1688 |
| 154.5 | 0 | 0. | 0. | 1689 |
| 155.4 | 0 | 0. | 0. | 1690 |

CROSSWIND INTEGRATED= 1.186E-02 SEC/SQ.M  2.608E-02 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TU 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 8 48.0 | 159 | 5.569E-08 | 1.225E-07 | 2200 |
| 6 50.0 | 251 | 8.776E-08 | 1.931E-07 | 2200 |
| 4 52.0 | 0 | 0. | 0. | 2200 |
| 5 54.0 | 856 | 2.985E-07 | 6.568E-07 | 2200 |
| 5 56.0 | 606 | 2.112E-07 | 4.647E-07 | 2200 |
| 5 58.0 | 340 | 1.188E-07 | 2.614E-07 | 2200 |
| 5 60.0 | 653 | 2.277E-07 | 5.009E-07 | 2200 |
| 5 62.0 | 248 | 8.673E-08 | 1.908E-07 | 2200 |
| 5 64.0 | 768 | 2.676E-07 | 5.888E-07 | 2200 |
| 5 66.0 | 422 | 1.474E-07 | 3.242E-07 | 2200 |
| 5 68.0 | 571 | 1.990E-07 | 4.378E-07 | 2200 |
| 4 70.0 | 358 | 1.251E-07 | 2.752E-07 | 2200 |
| 4 72.0 | 412 | 1.439E-07 | 3.165E-07 | 2200 |
| 5 74.0 | 687 | 2.397E-07 | 5.272E-07 | 2200 |
| E 76.0 | 553 | 1.929E-07 | 4.243E-07 | 2200 |
| 4 78.0 | 795 | 2.771E-07 | 6.097E-07 | 2200 |
| 5 80.0 | 453 | 1.582E-07 | 3.480E-07 | 2200 |
| 5 82.0 | 322 | 1.124E-07 | 2.473E-07 | 2200 |
| 5 84.0 | 1235 | 4.306E-07 | 9.473E-07 | 2200 |
| 5 86.0 | 512 | 1.786E-07 | 3.929E-07 | 2200 |
| 4 88.0 | 317 | 1.106E-07 | 2.434E-07 | 2200 |
| 6 90.0 | 695 | 2.424E-07 | 5.333E-07 | 2200 |
| 5 92.0 | 1409 | 4.910E-07 | 1.080E-06 | 2200 |
| E 94.0 | 966 | 3.367E-07 | 7.408E-07 | 2200 |
| E 96.0 | 689 | 2.404E-07 | 5.288E-07 | 2200 |
| E 98.0 | 827 | 2.885E-07 | 6.347E-07 | 2200 |
| 6 100.0 | 975 | 3.399E-07 | 7.479E-07 | 2200 |
| 4 102.0 | 911 | 3.175E-07 | 6.985E-07 | 2200 |
| 3 104.0 | 2007 | 6.994E-07 | 1.539E-06 | 2200 |
| E 106.0 | 917 | 3.198E-07 | 7.036E-07 | 2200 |
| 5 108.0 | 2075 | 7.230E-07 | 1.591E-06 | 2200 |
| 7 110.0 | 977 | 3.405E-07 | 7.492E-07 | 2200 |
| 5 112.0 | 854 | 2.978E-07 | 6.552E-07 | 2200 |
| 6 114.0 | 316 | 1.102E-07 | 2.424E-07 | 2200 |
| 7 116.0 | 277 | 9.679E-08 | 2.129E-07 | 2200 |
| 8 118.0 | 208 | 7.274E-08 | 1.600E-07 | 2200 |
| E 120.0 | 454 | 1.583E-07 | 3.483E-07 | 2200 |
| 4 122.0 | 911 | 3.175E-07 | 6.985E-07 | 2200 |
| 7 124.0 | 950 | 3.312E-07 | 7.286E-07 | 2200 |
| 5 126.0 | 2988 | 1.041E-06 | 2.291E-06 | 2200 |
| 5 128.0 | 2579 | 8.988E-07 | 1.977E-06 | 2200 |
| 7 130.0 | 816 | 2.845E-07 | 6.260E-07 | 2200 |
| 7 132.0 | 687 | 2.395E-07 | 5.269E-07 | 2200 |
| E 134.0 | 560 | 1.953E-07 | 4.297E-07 | 2200 |
| 6 136.0 | 1089 | 3.797E-07 | 8.354E-07 | 2200 |
| E 138.0 | 659 | 2.297E-07 | 5.054E-07 | 2200 |
| 6 140.0 | 782 | 2.727E-07 | 6.000E-07 | 2200 |
| 7 142.0 | 99 | 3.469E-08 | 7.633E-08 | 2200 |
| 4 144.0 | 58 | 2.041E-08 | 4.490E-08 | 2200 |
| 5 146.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 9.976E-04 SEC/SQ.M  2.195E-03 1/M

| | | | | |
|---|---|---|---|---|
| 146.0 | 515 | 1.849E-07 | 5.177E-07 | 1681 |
| 146.9 | 201 | 7.228E-08 | 2.024E-07 | 1682 |
| Z 147.9 | 69 | 2.487E-08 | 6.965E-08 | 1683 |
| 148.8 | 59 | 2.149E-08 | 6.016E-08 | 1684 |
| 149.7 | 43 | 1.556E-08 | 4.357E-08 | 1685 |
| 150.7 | 5 | 2.100E-09 | 5.879E-09 | 1686 |

CROSSWIND INTEGRATED= 1.396E-03 SEC/SQ.M  3.909E-03 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TU 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 5 80.0 | 1 | 4.041E-10 | 1.131E-09 | 2200 |
| 5 82.0 | 0 | 2.357E-10 | 6.600E-10 | 2200 |
| 5 84.0 | 0 | 6.734E-11 | 1.886E-10 | 2200 |
| 5 86.0 | 2 | 8.755E-10 | 2.451E-09 | 2200 |
| 4 88.0 | 2 | 1.061E-09 | 2.970E-09 | 2200 |
| 6 90.0 | 6 | 2.263E-09 | 6.336E-09 | 2200 |
| 5 92.0 | 69 | 2.475E-08 | 6.930E-08 | 2200 |
| E 94.0 | 95 | 3.409E-08 | 9.544E-08 | 2200 |
| E 96.0 | 122 | 4.334E-08 | 1.228E-07 | 2200 |
| 7 98.0 | 885 | 3.175E-07 | 8.890E-07 | 2200 |
| 6 100.0 | 550 | 1.973E-07 | 5.524E-07 | 2200 |
| 4 102.0 | 846 | 3.033E-07 | 8.494E-07 | 2200 |
| 104.0 | 234 | 8.414E-08 | 2.356E-07 | 2200 |
| 9 106.0 | 339 | 1.219E-07 | 3.412E-07 | 2200 |
| 5 108.0 | 846 | 3.033E-07 | 8.494E-07 | 2200 |
| 7 110.0 | 530 | 1.902E-07 | 5.326E-07 | 2200 |
| 5 112.0 | 1122 | 4.023E-07 | 1.127E-06 | 2200 |
| 6 114.0 | 846 | 3.033E-07 | 8.494E-07 | 2200 |
| 7 116.0 | 353 | 1.266E-07 | 3.544E-07 | 2200 |
| 8 118.0 | 1378 | 4.943E-07 | 1.384E-06 | 2200 |
| 0 120.0 | 925 | 3.316E-07 | 9.286E-07 | 2200 |
| 4 122.0 | 787 | 2.821E-07 | 7.900E-07 | 2200 |
| 7 124.0 | 570 | 2.044E-07 | 5.722E-07 | 2200 |
| 5 126.0 | 510 | 1.831E-07 | 5.126E-07 | 2200 |
| 5 128.0 | 885 | 3.175E-07 | 8.890E-07 | 2200 |
| 7 130.0 | 445 | 1.596E-07 | 4.468E-07 | 2200 |
| 7 132.0 | 826 | 2.963E-07 | 8.296E-07 | 2200 |
| 0 134.0 | 7019 | 2.516E-06 | 7.044E-06 | 2200 |
| 6 136.0 | 7588 | 2.720E-06 | 7.616E-06 | 2200 |
| 9 138.0 | 1359 | 4.872E-07 | 1.364E-06 | 2200 |
| 6 140.0 | 2431 | 8.714E-07 | 2.440E-06 | 2200 |
| 7 142.0 | 589 | 2.114E-07 | 5.920E-07 | 2200 |
| 4 144.0 | 251 | 9.021E-08 | 2.526E-07 | 2200 |
| 5 146.0 | 73 | 2.623E-08 | 7.344E-08 | 2200 |
| 5 148.0 | 45 | 1.647E-08 | 4.610E-08 | 2200 |
| 5 150.0 | 26 | 9.394E-09 | 2.630E-08 | 2200 |
| 4 152.0 | 6 | 2.211E-09 | 6.191E-09 | 2200 |
| 9 154.0 | 3 | 1.111E-09 | 3.111E-09 | 2200 |
| 156.0 | 1 | 6.398E-10 | 1.791E-09 | 2200 |

CROSSWIND INTEGRATED= 8.968E-04 SEC/SQ.M  2.511E-03 1/M

1202822



U8

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 2.2 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 48.0 | 2 | 7.289E-10 | 1.604E-09 | 3200 |
| 6 | 50.0 | 0 | 2.915E-10 | 6.414E-10 | 3200 |
| 6 | 52.0 | 39 | 1.370E-08 | 3.015E-08 | 3200 |
| 1 | 54.0 | 0 | 0. | 0. | 3200 |
| 5 | 56.0 | 30 | 1.079E-08 | 2.373E-08 | 3200 |
| 5 | 58.0 | 3 | 1.312E-09 | 2.886E-09 | 3200 |
| 5 | 60.0 | 43 | 1.516E-08 | 3.335E-08 | 3200 |
| P | 62.0 | 0 | 0. | 0. | 3200 |
| 4 | 64.0 | 39 | 1.385E-08 | 3.047E-08 | 3200 |
| 4 | 66.0 | 28 | 1.006E-08 | 2.213E-08 | 3200 |
| 7 | 68.0 | 6 | 2.187E-09 | 4.811E-09 | 3200 |
| 5 | 70.0 | 23 | 8.163E-09 | 1.796E-08 | 3200 |
| | 72.7 | 111 | 3.879E-08 | 8.533E-08 | 3168 |
| | 73.7 | 205 | 7.161E-08 | 1.575E-07 | 3170 |
| | 74.7 | 232 | 8.106E-08 | 1.783E-07 | 3172 |
| | 75.7 | 301 | 1.049E-07 | 2.308E-07 | 3173 |
| | 76.8 | 306 | 1.069E-07 | 2.352E-07 | 3175 |
| | 77.8 | 246 | 8.603E-08 | 1.893E-07 | 3177 |
| H | 78.8 | 790 | 2.755E-07 | 6.061E-07 | 3179 |
| H | 79.8 | 943 | 3.267E-07 | 7.231E-07 | 3180 |
| H | 80.8 | 2224 | 7.753E-07 | 1.706E-06 | 3182 |
| | 81.8 | 1527 | 5.321E-07 | 1.171E-06 | 3184 |
| | 82.8 | 1144 | 3.988E-07 | 8.774E-07 | 3185 |
| | 83.8 | 1762 | 6.141E-07 | 1.351E-06 | 3187 |
| | 84.8 | 3065 | 1.068E-06 | 2.350E-06 | 3189 |
| | 85.8 | 1883 | 6.564E-07 | 1.444E-06 | 3191 |
| | 86.8 | 1375 | 4.794E-07 | 1.055E-06 | 3192 |
| | 87.8 | 1889 | 6.584E-07 | 1.448E-06 | 3194 |
| | 88.8 | 1953 | 6.808E-07 | 1.498E-06 | 3196 |
| | 89.8 | 2581 | 8.996E-07 | 1.979E-06 | 3198 |
| | 90.8 | 2137 | 7.449E-07 | 1.639E-06 | 3199 |
| | 91.8 | 1377 | 4.799E-07 | 1.056E-06 | 3201 |
| | 92.8 | 1261 | 4.396E-07 | 9.671E-07 | 3203 |
| | 93.8 | 2333 | 8.130E-07 | 1.789E-06 | 3205 |
| | 94.8 | 1084 | 3.779E-07 | 8.314E-07 | 3206 |
| | 95.8 | 1030 | 3.590E-07 | 7.899E-07 | 3208 |
| | 96.8 | 1070 | 3.730E-07 | 8.205E-07 | 3210 |
| | 97.8 | 913 | 3.183E-07 | 7.002E-07 | 3212 |
| | 98.8 | 896 | 3.123E-07 | 6.870E-07 | 3213 |
| | 99.8 | 543 | 1.895E-07 | 4.168E-07 | 3215 |
| | 100.8 | 636 | 2.218E-07 | 4.879E-07 | 3217 |
| | 101.8 | 558 | 1.944E-07 | 4.278E-07 | 3218 |
| | 102.8 | 311 | 1.084E-07 | 2.385E-07 | 3220 |
| | 103.8 | 479 | 1.671E-07 | 3.676E-07 | 3222 |
| | 104.8 | 562 | 1.959E-07 | 4.310E-07 | 3224 |
| | 105.8 | 345 | 1.203E-07 | 2.647E-07 | 3225 |
| | 106.8 | 218 | 7.608E-08 | 1.674E-07 | 3227 |
| E | 107.8 | 553 | 1.929E-07 | 4.245E-07 | 3229 |
| | 108.8 | 583 | 2.034E-07 | 4.474E-07 | 3230 |
| | 109.7 | 231 | 8.056E-08 | 1.772E-07 | 3232 |
| | 110.7 | 358 | 1.248E-07 | 2.746E-07 | 3233 |
| | 111.7 | 265 | 9.249E-08 | 2.035E-07 | 3235 |
| | 112.7 | 269 | 9.399E-08 | 2.068E-07 | 3237 |
| | 113.7 | 119 | 4.177E-08 | 9.190E-08 | 3238 |
| | 114.6 | 82 | 2.884E-08 | 6.345E-08 | 3240 |
| | 115.6 | 101 | 3.531E-08 | 7.767E-08 | 3241 |
| | 116.6 | 19 | 6.962E-09 | 1.532E-08 | 3243 |
| | 117.6 | 38 | 1.343E-08 | 2.954E-08 | 3245 |
| | 118.6 | 74 | 2.586E-08 | 5.689E-08 | 3246 |
| | 119.5 | 67 | 2.337E-08 | 5.142E-08 | 3248 |
| | 120.5 | 62 | 2.188E-08 | 4.814E-08 | 3249 |
| | 121.5 | 49 | 1.740E-08 | 3.829E-08 | 3251 |
| 8 | 122.4 | 22 | 7.956E-09 | 1.750E-08 | 3252 |
| | 123.4 | 14 | 4.973E-09 | 1.094E-08 | 3253 |
| | 124.4 | 2 | 9.946E-10 | 2.188E-09 | 3255 |

CROSSWIND INTEGRATED= 8.120E-04 SEC/SQ.M 1.786E-03 1/M

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 2.8 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 7 | 48.0 | 11 | 4.153E-09 | 1.163E-08 | 3200 |
| 6 | 50.0 | 13 | 4.826E-09 | 1.351E-08 | 3200 |
| 6 | 52.0 | 15 | 5.724E-09 | 1.603E-08 | 3200 |
| F | 54.0 | 19 | 6.959E-09 | 1.948E-08 | 3200 |
| 5 | 56.0 | 22 | 8.081E-09 | 2.263E-08 | 3200 |
| 5 | 58.0 | 11 | 4.265E-09 | 1.194E-08 | 3200 |
| 5 | 60.0 | 6 | 2.245E-09 | 6.285E-09 | 3200 |
| F | 62.0 | 12 | 4.602E-09 | 1.288E-08 | 3200 |
| 4 | 64.0 | 24 | 8.755E-09 | 2.451E-08 | 3200 |
| 4 | 66.0 | 26 | 9.428E-09 | 2.640E-08 | 3200 |
| 7 | 68.0 | 9 | 3.479E-09 | 9.742E-09 | 3200 |
| 5 | 70.0 | 24 | 8.755E-09 | 2.451E-08 | 3200 |
| | 72.7 | 30 | 1.103E-08 | 3.088E-08 | 3168 |
| | 73.7 | 35 | 1.256E-08 | 3.516E-08 | 3170 |
| | 74.7 | 39 | 1.409E-08 | 3.945E-08 | 3172 |
| | 75.7 | 15 | 5.667E-09 | 1.587E-08 | 3173 |
| | 76.8 | 52 | 1.868E-08 | 5.232E-08 | 3175 |
| | 77.8 | 45 | 1.639E-08 | 4.588E-08 | 3177 |
| | 78.8 | 62 | 2.251E-08 | 6.304E-08 | 3179 |
| | 79.8 | 33 | 1.218E-08 | 3.409E-08 | 3180 |
| Z | 80.8 | 28 | 1.026E-08 | 2.873E-08 | 3182 |
| | 81.8 | 8 | 2.910E-09 | 8.148E-09 | 3184 |
| | 82.8 | 51 | 1.830E-08 | 5.124E-08 | 3185 |
| | 83.8 | 42 | 1.524E-08 | 4.267E-08 | 3187 |
| | 84.8 | 76 | 2.749E-08 | 7.697E-08 | 3189 |
| | 85.8 | 64 | 2.328E-08 | 6.518E-08 | 3191 |
| | 86.8 | 23 | 8.347E-09 | 2.337E-08 | 3192 |
| | 87.8 | 61 | 2.213E-08 | 6.196E-08 | 3194 |
| | 88.8 | 172 | 6.195E-08 | 1.735E-07 | 3196 |
| | 89.8 | 115 | 4.127E-08 | 1.156E-07 | 3198 |
| | 90.8 | 204 | 7.344E-08 | 2.056E-07 | 3199 |
| | 91.8 | 263 | 9.449E-08 | 2.646E-07 | 3201 |
| | 92.8 | 402 | 1.443E-07 | 4.040E-07 | 3203 |
| | 93.8 | 765 | 2.744E-07 | 7.684E-07 | 3205 |
| | 94.8 | 872 | 3.127E-07 | 8.757E-07 | 3206 |
| | 95.8 | 1028 | 3.686E-07 | 1.032E-06 | 3208 |
| | 96.8 | 1746 | 6.259E-07 | 1.753E-06 | 3210 |
| | 97.8 | 1454 | 5.214E-07 | 1.460E-06 | 3212 |
| | 98.8 | 1880 | 6.742E-07 | 1.888E-06 | 3213 |
| | 99.8 | 1813 | 6.500E-07 | 1.820E-06 | 3215 |
| | 100.8 | 1477 | 5.294E-07 | 1.482E-06 | 3217 |
| | 101.8 | 1880 | 6.742E-07 | 1.888E-06 | 3218 |
| | 102.8 | 759 | 2.721E-07 | 7.620E-07 | 3220 |
| | 103.8 | 983 | 3.526E-07 | 9.871E-07 | 3222 |
| | 104.8 | 1387 | 4.973E-07 | 1.392E-06 | 3224 |
| | 105.8 | 1163 | 4.169E-07 | 1.167E-06 | 3225 |
| | 106.8 | 1320 | 4.732E-07 | 1.325E-06 | 3227 |
| 9 | 107.8 | 938 | 3.365E-07 | 9.421E-07 | 3229 |
| | 108.8 | 1611 | 5.777E-07 | 1.618E-06 | 3230 |
| | 109.7 | 983 | 3.526E-07 | 9.871E-07 | 3232 |
| | 110.7 | 2015 | 7.224E-07 | 2.023E-06 | 3233 |
| Z | 111.7 | 1409 | 5.053E-07 | 1.415E-06 | 3235 |
| | 112.7 | 2352 | 8.430E-07 | 2.360E-06 | 3237 |
| | 113.7 | 1252 | 4.490E-07 | 1.257E-06 | 3238 |
| | 114.6 | 1028 | 3.686E-07 | 1.032E-06 | 3240 |
| | 115.6 | 1297 | 4.651E-07 | 1.302E-06 | 3241 |
| | 116.6 | 647 | 2.319E-07 | 6.495E-07 | 3243 |
| | 117.6 | 1028 | 3.686E-07 | 1.032E-06 | 3245 |
| | 118.6 | 669 | 2.400E-07 | 6.720E-07 | 3246 |
| | 119.5 | 669 | 2.400E-07 | 6.720E-07 | 3248 |
| | 120.5 | 274 | 9.832E-08 | 2.753E-07 | 3249 |
| | 121.5 | 72 | 2.596E-08 | 7.269E-08 | 3251 |
| 8 | 122.4 | 349 | 1.251E-07 | 3.503E-07 | 3252 |
| | 123.4 | 594 | 2.132E-07 | 5.969E-07 | 3253 |
| | 124.4 | 637 | 2.285E-07 | 6.398E-07 | 3255 |
| | 125.4 | 317 | 1.136E-07 | 3.182E-07 | 3256 |
| | 126.3 | 274 | 9.832E-08 | 2.753E-07 | 3258 |
| | 127.3 | 285 | 1.022E-07 | 2.860E-07 | 3259 |
| | 128.3 | 680 | 2.438E-07 | 6.827E-07 | 3261 |
| | 129.3 | 648 | 2.323E-07 | 6.505E-07 | 3262 |
| | 130.3 | 712 | 2.553E-07 | 7.148E-07 | 3263 |



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| | | | | | |
|---|---|---|---|---|---|
| | 131.2 | 691 | 2.480E-07 | 6.945E-07 | 3264 |
| | 132.2 | 755 | 2.706E-07 | 7.577E-07 | 3266 |
| | 133.2 | 968 | 3.472E-07 | 9.721E-07 | 3267 |
| | 134.2 | 755 | 2.706E-07 | 7.577E-07 | 3268 |
| | 135.2 | 455 | 1.634E-07 | 4.576E-07 | 3270 |
| | 136.2 | 808 | 2.898E-07 | 8.113E-07 | 3271 |
| | 137.1 | 722 | 2.591E-07 | 7.256E-07 | 3272 |
| | 138.1 | 722 | 2.591E-07 | 7.256E-07 | 3273 |
| | 139.1 | 808 | 2.898E-07 | 8.113E-07 | 3274 |
| | 140.1 | 2560 | 9.177E-07 | 2.570E-06 | 3276 |
| | 141.1 | 1214 | 4.353E-07 | 1.219E-06 | 3277 |
| | 142.0 | 1150 | 4.123E-07 | 1.154E-06 | 3278 |
| | 143.0 | 1150 | 4.123E-07 | 1.154E-06 | 3279 |
| H | 144.0 | 1374 | 4.927E-07 | 1.380E-06 | 3280 |
| | 145.0 | 819 | 2.936E-07 | 8.221E-07 | 3281 |
| | 146.0 | 413 | 1.481E-07 | 4.147E-07 | 3282 |
| H | 146.9 | 99 | 3.553E-08 | 9.949E-08 | 3283 |
| | 147.9 | 11 | 3.944E-09 | 1.104E-08 | 3284 |
| | 148.9 | 0 | 3.829E-11 | 1.072E-10 | 3285 |

CROSSWIND INTEGRATED= 1.143E-03 3.200E-03
SEC/SQ.M 1/M

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE ESSENTIALLY ENTIRE CROSSWIND EXTENT OF TRACER. HIGH DUST LEVEL ON FILTERS EXPOSED AT 5000M, 7000M AND 12600M. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- ESPECIALLY ZNS.) LARGE WIND DIRECTION VARIANCE FOR RELATIVELY HIGH WIND SPEED.

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 62.0 | 93 | 2.976E-08 | 1.696E-07 | 400 |
| Z 66.0 | 554 | 1.763E-07 | 1.005E-06 | 400 |
| Z 70.0 | 814 | 2.590E-07 | 1.477E-06 | 400 |
| Z 74.0 | 1210 | 3.851E-07 | 2.195E-06 | 400 |
| 78.0 | 3099 | 9.863E-07 | 5.622E-06 | 400 |
| 82.0 | 4328 | 1.377E-06 | 7.849E-06 | 400 |
| 86.0 | 2190 | 6.971E-07 | 3.973E-06 | 400 |
| 90.0 | 1840 | 5.855E-07 | 3.337E-06 | 400 |
| 94.0 | 4743 | 1.509E-06 | 8.602E-06 | 400 |
| 98.0 | 11514 | 3.663E-06 | 2.088E-05 | 400 |
| 102.0 | 22500 | 7.159E-06 | 4.081E-05 | 400 |
| 106.0 | 26504 | 8.433E-06 | 4.807E-05 | 400 |
| E 110.0 | 27687 | 8.809E-06 | 5.021E-05 | 400 |
| F 114.0 | 29888 | 9.509E-06 | 5.420E-05 | 400 |
| 118.0 | 29007 | 9.229E-06 | 5.261E-05 | 400 |
| 122.0 | 19888 | 6.328E-06 | 3.607E-05 | 400 |
| 126.0 | 17388 | 5.532E-06 | 3.153E-05 | 400 |
| 130.0 | 12589 | 4.006E-06 | 2.283E-05 | 400 |
| 134.0 | 5490 | 1.747E-06 | 9.957E-06 | 400 |
| 138.0 | 669 | 2.131E-07 | 1.215E-06 | 400 |
| 142.0 | 264 | 8.401E-08 | 4.789E-07 | 400 |
| 146.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.975E-03 SEC/SQ.M 1.126E-02 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 78.0 | 0 | 2.054E-10 | 1.436E-09 | 400 |
| 82.0 | 1 | 4.323E-10 | 3.026E-09 | 400 |
| 86.0 | 9 | 3.243E-09 | 2.270E-08 | 400 |
| 90.0 | 76 | 2.551E-08 | 1.786E-07 | 400 |
| 94.0 | 189 | 6.312E-08 | 4.419E-07 | 400 |
| 98.0 | 1701 | 5.670E-07 | 3.969E-06 | 400 |
| 102.0 | 1088 | 3.627E-07 | 2.539E-06 | 400 |
| 106.0 | 4424 | 1.475E-06 | 1.032E-05 | 400 |
| 110.0 | 10806 | 3.602E-06 | 2.521E-05 | 400 |
| 114.0 | 5457 | 1.819E-06 | 1.273E-05 | 400 |
| 118.0 | 4802 | 1.601E-06 | 1.120E-05 | 400 |
| 122.0 | 1496 | 4.989E-07 | 3.493E-06 | 400 |
| 126.0 | 373 | 1.244E-07 | 8.705E-07 | 400 |
| 130.0 | 28 | 9.555E-09 | 6.688E-08 | 400 |
| 134.0 | 373 | 1.244E-07 | 8.709E-07 | 400 |
| 138.0 | 6112 | 2.037E-06 | 1.426E-05 | 400 |
| 142.0 | 236 | 7.883E-08 | 5.518E-07 | 400 |
| 146.0 | 0 | 2.270E-10 | 1.589E-09 | 400 |
| 150.0 | 3 | 1.297E-09 | 9.079E-09 | 400 |
| 154.0 | 5 | 1.946E-09 | 1.362E-08 | 400 |

CROSSWIND INTEGRATED= 3.462E-04 SEC/SQ.M 2.423E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 70.0 | 0 | 0. | 0. | 800 |
| 73.0 | 19 | 6.126E-09 | 3.492E-08 | 800 |
| 76.0 | 72 | 2.319E-08 | 1.322E-07 | 800 |
| 79.0 | 1151 | 3.663E-07 | 2.088E-06 | 800 |
| 82.0 | 416 | 1.326E-07 | 7.557E-07 | 800 |
| 85.0 | 844 | 2.687E-07 | 1.531E-06 | 800 |
| 88.0 | 1882 | 5.990E-07 | 3.415E-06 | 800 |
| 91.0 | 1467 | 4.669E-07 | 2.661E-06 | 800 |
| 94.0 | 1453 | 4.625E-07 | 2.636E-06 | 800 |
| 97.0 | 1686 | 5.365E-07 | 3.058E-06 | 800 |
| 97.1 | 1766 | 5.622E-07 | 3.204E-06 | 806 |
| 99.1 | 1928 | 6.137E-07 | 3.498E-06 | 809 |
| 101.1 | 2274 | 7.236E-07 | 4.126E-06 | 813 |
| 103.0 | 3692 | 1.175E-06 | 6.696E-06 | 816 |
| 105.0 | 8352 | 2.657E-06 | 1.515E-05 | 820 |
| 106.9 | 14304 | 4.551E-06 | 2.594E-05 | 823 |
| 108.8 | 17145 | 5.455E-06 | 3.110E-05 | 826 |
| E 110.7 | 21220 | 6.752E-06 | 3.849E-05 | 829 |
| E 112.6 | 22553 | 7.176E-06 | 4.090E-05 | 833 |
| 114.5 | 31409 | 9.994E-06 | 5.696E-05 | 836 |
| 116.4 | 44164 | 1.405E-05 | 8.009E-05 | 839 |
| 118.3 | 53340 | 1.697E-05 | 9.674E-05 | 842 |
| 120.2 | 24817 | 7.896E-06 | 4.501E-05 | 845 |
| 122.1 | 21743 | 6.918E-06 | 3.943E-05 | 848 |
| 124.0 | 21456 | 6.827E-06 | 3.891E-05 | 851 |
| 125.8 | 15898 | 5.058E-06 | 2.883E-05 | 854 |
| 127.7 | 9493 | 3.020E-06 | 1.722E-05 | 857 |
| 129.5 | 11285 | 3.591E-06 | 2.047E-05 | 859 |
| 131.4 | 2580 | 8.210E-07 | 4.680E-06 | 862 |
| 133.2 | 253 | 8.081E-08 | 4.606E-07 | 865 |
| 135.0 | 0 | 0. | 0. | 867 |

CROSSWIND INTEGRATED= 3.012E-03 SEC/SQ.M 1.717E-02 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.0 | 0 | 0. | 0. | 800 |
| 91.0 | 43 | 1.447E-08 | 1.013E-07 | 800 |
| 94.0 | 1 | 6.017E-10 | 4.212E-09 | 800 |
| 97.0 | 79 | 2.636E-08 | 1.845E-07 | 800 |
| 97.1 | 40 | 1.361E-08 | 9.527E-08 | 806 |
| 99.1 | 564 | 1.880E-07 | 1.316E-06 | 809 |
| 101.1 | 1427 | 4.758E-07 | 3.330E-06 | 813 |
| 103.0 | 3228 | 1.076E-06 | 7.534E-06 | 816 |
| 105.0 | 4281 | 1.427E-06 | 9.991E-06 | 820 |
| 106.9 | 6989 | 2.330E-06 | 1.631E-05 | 823 |
| 108.8 | 14887 | 4.962E-06 | 3.474E-05 | 826 |
| 110.7 | 10600 | 3.533E-06 | 2.473E-05 | 829 |
| 112.6 | 17294 | 5.765E-06 | 4.035E-05 | 833 |
| 114.5 | 19550 | 6.517E-06 | 4.562E-05 | 836 |
| 116.4 | 9697 | 3.232E-06 | 2.263E-05 | 839 |
| 118.3 | 11502 | 3.834E-06 | 2.684E-05 | 842 |
| 120.2 | 7892 | 2.631E-06 | 1.842E-05 | 845 |
| 122.1 | 2251 | 7.504E-07 | 5.253E-06 | 848 |
| 124.0 | 1619 | 5.398E-07 | 3.778E-06 | 851 |
| 125.8 | 3981 | 1.327E-06 | 9.289E-06 | 854 |
| 127.7 | 1032 | 3.442E-07 | 2.409E-06 | 857 |
| 129.5 | 1950 | 6.501E-07 | 4.551E-06 | 859 |
| 131.4 | 1176 | 3.922E-07 | 2.745E-06 | 862 |
| 133.2 | 402 | 1.343E-07 | 9.402E-07 | 865 |
| 135.0 | 7 | 2.308E-09 | 1.671E-08 | 867 |
| 136.9 | 3 | 1.313E-09 | 9.193E-09 | 870 |
| 138.7 | 5 | 1.671E-09 | 1.170E-08 | 872 |
| 140.6 | 0 | 0. | 0. | 874 |
| 142.4 | 0 | 0. | 0. | 876 |

CROSSWIND INTEGRATED= 1.112E-03 SEC/SQ.M 7.782E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 80.0 | 0 | 0. | 0. | 1200 |
| | 82.0 | 22 | 7.078E-09 | 4.034E-08 | 1200 |
| E | 84.0 | 52 | 1.660E-08 | 9.460E-08 | 1200 |
| E | 86.0 | 113 | 3.612E-08 | 2.059E-07 | 1200 |
| | 88.0 | 232 | 7.395E-08 | 4.215E-07 | 1200 |
| | 90.0 | 351 | 1.118E-07 | 6.371E-07 | 1200 |
| | 92.0 | 222 | 7.078E-08 | 4.034E-07 | 1200 |
| | 94.0 | 335 | 1.067E-07 | 6.079E-07 | 1200 |
| | 96.0 | 882 | 2.807E-07 | 1.600E-06 | 1200 |
| | 98.0 | 398 | 1.267E-07 | 7.220E-07 | 1200 |
| | 100.0 | 663 | 2.111E-07 | 1.203E-06 | 1200 |
| | 102.0 | 1338 | 4.259E-07 | 2.428E-06 | 1200 |
| | 104.0 | 1227 | 3.905E-07 | 2.226E-06 | 1200 |
| | 106.0 | 2589 | 8.240E-07 | 4.697E-06 | 1200 |
| | 108.0 | 3006 | 9.565E-07 | 5.452E-06 | 1200 |
| | 110.0 | 4055 | 1.290E-06 | 7.355E-06 | 1200 |
| | 112.0 | 5983 | 1.904E-06 | 1.085E-05 | 1200 |
| | 114.0 | 11536 | 3.670E-06 | 2.092E-05 | 1200 |
| E | 116.0 | 22243 | 7.077E-06 | 4.034E-05 | 1200 |
| | 118.0 | 20673 | 6.578E-06 | 3.749E-05 | 1200 |
| | 120.0 | 10789 | 3.433E-06 | 1.957E-05 | 1200 |
| | 122.0 | 9073 | 2.887E-06 | 1.645E-05 | 1200 |
| | 124.0 | 7538 | 2.398E-06 | 1.367E-05 | 1200 |
| | 126.0 | 3540 | 1.126E-06 | 6.420E-06 | 1200 |
| | 128.0 | 470 | 1.499E-07 | 8.542E-07 | 1200 |
| | 130.0 | 19 | 6.102E-09 | 3.478E-08 | 1200 |
| | 132.0 | 1 | 4.881E-10 | 2.782E-09 | 1200 |
| | 134.0 | 4 | 1.464E-09 | 8.347E-09 | 1200 |
| | 136.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.431E-03 SEC/SQ.M 8.156E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 94.0 | 0 | 0. | 0. | 1200 |
| | 96.0 | 6 | 2.170E-09 | 1.519E-08 | 1200 |
| | 98.0 | 13 | 4.421E-09 | 3.095E-08 | 1200 |
| | 100.0 | 63 | 2.110E-08 | 1.477E-07 | 1200 |
| | 102.0 | 112 | 3.738E-08 | 2.616E-07 | 1200 |
| | 104.0 | 529 | 1.766E-07 | 1.236E-06 | 1200 |
| | 106.0 | 1479 | 4.931E-07 | 3.452E-06 | 1200 |
| | 108.0 | 1137 | 3.792E-07 | 2.654E-06 | 1200 |
| | 110.0 | 4682 | 1.561E-06 | 1.093E-05 | 1200 |
| | 112.0 | 6961 | 2.320E-06 | 1.624E-05 | 1200 |
| | 114.0 | 10759 | 3.586E-06 | 2.510E-05 | 1200 |
| E | 116.0 | 6834 | 2.278E-06 | 1.595E-05 | 1200 |
| | 118.0 | 12784 | 4.262E-06 | 2.983E-05 | 1200 |
| | 120.0 | 6574 | 2.191E-06 | 1.534E-05 | 1200 |
| | 122.0 | 2125 | 7.044E-07 | 4.929E-06 | 1200 |
| | 124.0 | 1365 | 4.552E-07 | 3.186E-06 | 1200 |
| | 126.0 | 2049 | 6.830E-07 | 4.781E-06 | 1200 |
| | 128.0 | 2049 | 6.830E-07 | 4.781E-06 | 1200 |
| | 130.0 | 909 | 3.032E-07 | 2.123E-06 | 1200 |
| | 132.0 | 2 | 9.646E-10 | 6.752E-09 | 1200 |
| | 134.0 | 1 | 4.461E-10 | 3.095E-09 | 1200 |
| | 136.0 | 3 | 1.145E-09 | 8.018E-09 | 1200 |

CROSSWIND INTEGRATED= 8.440E-04 SEC/SQ.M 5.908E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 84.0 | 0 | 0. | 0. | 1600 |
| | 86.0 | 13 | 4.149E-09 | 2.365E-08 | 1600 |
| | 88.0 | 6 | 1.952E-09 | 1.113E-08 | 1600 |
| D | 90.0 | 45 | 1.440E-08 | 8.208E-08 | 1600 |
| | 92.0 | 52 | 1.684E-08 | 9.599E-08 | 1600 |
| | 93.6 | 54 | 1.746E-08 | 9.953E-08 | 1603 |
| | 94.0 | 98 | 3.124E-08 | 1.781E-07 | 1600 |
| | 94.6 | 120 | 3.842E-08 | 2.190E-07 | 1604 |
| | 95.6 | 76 | 2.445E-08 | 1.393E-07 | 1606 |
| | 96.6 | 134 | 4.278E-08 | 2.439E-07 | 1608 |
| | 97.6 | 107 | 3.405E-08 | 1.941E-07 | 1610 |
| | 98.6 | 183 | 5.850E-08 | 3.334E-07 | 1611 |
| | 99.6 | 296 | 9.430E-08 | 5.375E-07 | 1613 |
| | 101.6 | 905 | 2.881E-07 | 1.642E-06 | 1617 |
| | 102.6 | 815 | 2.593E-07 | 1.478E-06 | 1618 |
| | 103.6 | 620 | 1.973E-07 | 1.125E-06 | 1620 |
| | 104.5 | 1553 | 4.942E-07 | 2.817E-06 | 1622 |
| | 105.5 | 1100 | 3.501E-07 | 1.996E-06 | 1623 |
| | 106.5 | 2209 | 7.029E-07 | 4.006E-06 | 1625 |
| | 107.5 | 2738 | 8.714E-07 | 4.967E-06 | 1627 |
| | 108.5 | 3239 | 1.030E-06 | 5.873E-06 | 1628 |
| E | 109.5 | 3737 | 1.189E-06 | 6.778E-06 | 1630 |
| E | 110.4 | 4239 | 1.349E-06 | 7.689E-06 | 1632 |
| | 110.6 | 510 | 1.624E-07 | 9.257E-07 | 1632 |
| | 111.4 | 4890 | 1.556E-06 | 8.868E-06 | 1633 |
| | 112.4 | 5943 | 1.891E-06 | 1.078E-05 | 1635 |
| | 113.4 | 9365 | 2.980E-06 | 1.699E-05 | 1637 |
| | 114.4 | 12425 | 3.953E-06 | 2.253E-05 | 1638 |
| | 115.3 | 16588 | 5.278E-06 | 3.008E-05 | 1640 |
| | 116.3 | 19327 | 6.149E-06 | 3.505E-05 | 1641 |
| | 117.3 | 18940 | 6.026E-06 | 3.435E-05 | 1643 |
| | 118.2 | 14426 | 4.590E-06 | 2.616E-05 | 1644 |
| | 119.2 | 11635 | 3.702E-06 | 2.110E-05 | 1646 |
| | 120.2 | 10639 | 3.385E-06 | 1.929E-05 | 1647 |
| | 121.2 | 11522 | 3.666E-06 | 2.090E-05 | 1649 |

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 99.6 | 0 | 0. | 0. | 1600 |
| | 100.6 | 0 | 0. | 0. | 1615 |
| | 101.6 | 8 | 2.795E-09 | 1.957E-08 | 1617 |
| | 102.6 | 3 | 1.220E-09 | 8.543E-09 | 1618 |
| | 103.6 | 73 | 2.437E-08 | 1.706E-07 | 1620 |
| | 104.5 | 15 | 5.073E-09 | 3.555E-08 | 1622 |
| | 105.5 | 19 | 6.494E-09 | 4.547E-08 | 1623 |
| | 106.5 | 92 | 3.067E-08 | 2.147E-07 | 1625 |
| | 107.5 | 588 | 1.960E-07 | 1.372E-06 | 1627 |
| | 108.5 | 800 | 2.665E-07 | 1.866E-06 | 1628 |
| | 109.5 | 1769 | 5.897E-07 | 4.128E-06 | 1630 |
| | 110.4 | 1485 | 4.952E-07 | 3.466E-06 | 1632 |
| | 111.4 | 473 | 1.579E-07 | 1.105E-06 | 1633 |
| | 112.4 | 4461 | 1.487E-06 | 1.041E-05 | 1635 |
| | 113.4 | 4610 | 1.537E-06 | 1.076E-05 | 1637 |
| | 114.4 | 22815 | 7.605E-06 | 5.324E-05 | 1638 |
| | 115.3 | 18846 | 6.282E-06 | 4.398E-05 | 1640 |
| | 116.3 | 13086 | 4.629E-06 | 3.240E-05 | 1641 |
| | 117.3 | 9967 | 3.323E-06 | 2.326E-05 | 1643 |
| | 118.2 | 19838 | 6.613E-06 | 4.629E-05 | 1644 |
| | 119.2 | 12398 | 4.133E-06 | 2.893E-05 | 1646 |
| | 120.2 | 5265 | 1.755E-06 | 1.215E-05 | 1647 |
| | 121.2 | 7438 | 2.479E-06 | 1.736E-05 | 1649 |

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| | | | | |
|---|---|---|---|---|
| 122.1 | 8965 | 2.852E-06 | 1.626E-05 | 1650 |
| 123.1 | 5985 | 1.904E-06 | 1.085E-05 | 1652 |
| 124.1 | 2944 | 9.368E-07 | 5.340E-06 | 1653 |
| 125.0 | 1297 | 4.130E-07 | 2.354E-06 | 1655 |
| 126.0 | 282 | 8.993E-08 | 5.126E-07 | 1656 |
| 126.9 | 263 | 8.382E-08 | 4.778E-07 | 1658 |
| 127.8 | 0 | 0. | 0. | 1659 |

CROSSWIND INTEGRATED= 1.564E-03 SEC/SQ.M  8.913E-03 1/M

TEST U81  OCTOBER 1, 1968  0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC  SAMPLER HT 1.5M  U= 5.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 2.662E-10 | 1.517E-09 | 2200 |
| 8 94.0 | 0 | 0. | 0. | 2200 |
| X 96.0 | 0 | 0. | 0. | 2200 |
| 98.0 | 5 | 1.597E-09 | 9.105E-09 | 2200 |
| 4 100.0 | 7 | 2.529E-09 | 1.442E-08 | 2200 |
| 102.0 | 14 | 4.659E-09 | 2.656E-08 | 2200 |
| 5 104.0 | 19 | 6.256E-09 | 3.566E-08 | 2200 |
| 5 106.0 | 43 | 1.371E-08 | 7.815E-08 | 2200 |
| 108.0 | 249 | 7.947E-08 | 4.530E-07 | 2200 |
| 4 110.0 | 380 | 1.210E-07 | 6.897E-07 | 2200 |
| 112.0 | 404 | 1.289E-07 | 7.345E-07 | 2200 |
| 114.0 | 739 | 2.352E-07 | 1.341E-06 | 2200 |
| 116.0 | 667 | 2.123E-07 | 1.210E-06 | 2200 |
| 118.0 | 1366 | 4.347E-07 | 2.478E-06 | 2200 |
| E 120.0 | 417 | 1.328E-07 | 7.572E-07 | 2200 |
| 122.0 | 289 | 9.211E-08 | 5.250E-07 | 2200 |
| E 124.0 | 61 | 1.970E-09 | 1.123E-07 | 2200 |
| 126.0 | 7 | 2.524E-09 | 1.442E-08 | 2200 |
| 128.0 | 11 | 3.594E-09 | 2.049E-08 | 2200 |
| 130.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.145E-04 SEC/SQ.M  6.529E-04 1/M

TEST U81  OCTOBER 1, 1968  0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC  SAMPLER HT 1.5M  U= 5.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.8 | 0 | 0. | 0. | 3200 |
| 99.8 | 0 | 0. | 0. | 3215 |
| 100.8 | 4 | 1.297E-09 | 7.395E-09 | 3217 |
| 101.8 | 26 | 9.382E-09 | 5.177E-08 | 3218 |
| 102.8 | 50 | 1.600E-08 | 9.121E-08 | 3220 |
| 103.8 | 13 | 4.325E-09 | 2.465E-08 | 3222 |
| 104.8 | 8 | 2.595E-09 | 1.479E-08 | 3224 |
| 105.8 | 112 | 3.589E-08 | 2.046E-07 | 3225 |
| 106.8 | 262 | 8.346E-08 | 4.757E-07 | 3227 |
| 107.8 | 247 | 7.871E-08 | 4.486E-07 | 3229 |
| 108.8 | 260 | 8.303E-08 | 4.733E-07 | 3230 |
| 109.7 | 712 | 2.266E-07 | 1.292E-06 | 3232 |
| 110.7 | 1363 | 4.338E-07 | 2.472E-06 | 3233 |
| 111.7 | 1716 | 5.462E-07 | 3.113E-06 | 3235 |
| 112.7 | 2564 | 8.161E-07 | 4.651E-06 | 3237 |
| E 113.7 | 2779 | 8.844E-07 | 5.041E-06 | 3238 |
| E 114.6 | 3007 | 9.570E-07 | 5.455E-06 | 3240 |
| 115.6 | 3209 | 1.021E-06 | 5.820E-06 | 3241 |
| 116.6 | 3649 | 1.161E-06 | 6.619E-06 | 3243 |
| E 117.6 | 3302 | 1.051E-06 | 5.990E-06 | 3245 |
| E 118.6 | 3092 | 9.838E-07 | 5.608E-06 | 3246 |
| 119.5 | 3016 | 9.596E-07 | 5.470E-06 | 3248 |
| 120.5 | 1526 | 4.857E-07 | 2.768E-06 | 3249 |
| 121.5 | 974 | 3.101E-07 | 1.767E-06 | 3251 |
| 122.4 | 396 | 1.263E-07 | 7.196E-07 | 3252 |
| 123.4 | 142 | 4.541E-08 | 2.588E-07 | 3253 |
| 124.4 | 59 | 1.903E-08 | 1.085E-07 | 3255 |
| 125.4 | 39 | 1.254E-08 | 7.149E-08 | 3256 |
| 126.3 | 0 | 0. | 0. | 3258 |
| 127.3 | 0 | 0. | 0. | 3259 |

CROSSWIND INTEGRATED= 5.730E-04 SEC/SQ.M  3.266E-03 1/M

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| | | | | |
|---|---|---|---|---|
| 122.1 | 5503 | 1.835E-06 | 1.284E-05 | 1650 |
| 123.1 | 2477 | 8.259E-07 | 5.781E-06 | 1652 |
| 124.1 | 4015 | 1.338E-06 | 9.365E-06 | 1653 |
| 125.0 | 1733 | 5.779E-07 | 4.045E-06 | 1655 |
| 126.0 | 706 | 2.354E-07 | 1.648E-06 | 1656 |
| 126.9 | 1131 | 3.771E-07 | 2.640E-06 | 1658 |
| 127.8 | 682 | 2.275E-07 | 1.593E-06 | 1659 |
| 128.8 | 3 | 1.220E-09 | 8.543E-09 | 1660 |

CROSSWIND INTEGRATED= 1.302E-03 SEC/SQ.M  9.111E-03 1/M

TEST U81  OCTOBER 1, 1968  0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC  SAMPLER HT 1.5M  U= 7.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 100.0 | 0 | 2.505E-10 | 1.754E-09 | 2200 |
| 102.0 | 0 | 1.253E-10 | 8.766E-10 | 2200 |
| Z 104.0 | 0 | 1.566E-10 | 1.096E-09 | 2200 |
| 5 106.0 | 47 | 1.588E-08 | 1.111E-07 | 2200 |
| 108.0 | 31 | 1.040E-08 | 7.277E-08 | 2200 |
| 4 110.0 | 248 | 8.273E-08 | 5.791E-07 | 2200 |
| 112.0 | 787 | 2.625E-07 | 1.837E-06 | 2200 |
| 114.0 | 846 | 2.822E-07 | 1.975E-06 | 2200 |
| 116.0 | 4457 | 1.486E-06 | 1.040E-05 | 2200 |
| 4 118.0 | 3943 | 1.328E-06 | 9.295E-06 | 2200 |
| 9 120.0 | 807 | 2.691E-07 | 1.883E-06 | 2200 |
| 4 122.0 | 1971 | 6.570E-07 | 4.599E-06 | 2200 |
| E 124.0 | 787 | 2.625E-07 | 1.837E-06 | 2200 |
| 126.0 | 245 | 8.190E-08 | 5.733E-07 | 2200 |
| 128.0 | 13 | 4.447E-09 | 3.113E-08 | 2200 |
| Z 130.0 | 5 | 1.941E-09 | 1.359E-08 | 2200 |
| 132.0 | 3 | 1.190E-09 | 8.330E-09 | 2200 |
| 134.0 | 1 | 5.637E-10 | 3.946E-09 | 2200 |
| 3 136.0 | 0 | 1.253E-10 | 8.766E-10 | 2200 |

CROSSWIND INTEGRATED= 3.645E-04 SEC/SQ.M  2.552E-03 1/M

TEST U81  OCTOBER 1, 1968  0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC  SAMPLER HT 1.5M  U= 7.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 103.8 | 0 | 0. | 0. | 3200 |
| 104.8 | 0 | 0. | 0. | 3224 |
| 105.8 | 9 | 3.098E-09 | 2.168E-08 | 3225 |
| 106.8 | 87 | 2.956E-08 | 2.069E-07 | 3227 |
| 107.8 | 13 | 4.467E-09 | 3.141E-08 | 3229 |
| 108.8 | 293 | 9.778E-09 | 6.844E-07 | 3230 |
| 109.7 | 314 | 1.049E-07 | 7.343E-07 | 3232 |
| 110.7 | 510 | 1.701E-07 | 1.190E-06 | 3233 |
| 111.7 | 689 | 2.299E-07 | 1.609E-06 | 3235 |
| 112.7 | 958 | 3.196E-07 | 2.237E-06 | 3237 |
| 113.7 | 1676 | 5.589E-07 | 3.912E-06 | 3238 |
| 114.6 | 3493 | 1.165E-06 | 8.152E-06 | 3240 |
| 115.6 | 3493 | 1.165E-06 | 8.152E-06 | 3241 |
| 116.6 | 6051 | 2.017E-06 | 1.412E-05 | 3243 |
| 117.6 | 3830 | 1.277E-06 | 8.937E-06 | 3245 |
| 118.6 | 2080 | 6.935E-07 | 4.854E-06 | 3246 |
| 119.5 | 2753 | 9.178E-07 | 6.425E-06 | 3248 |
| 120.5 | 2753 | 9.178E-07 | 6.425E-06 | 3249 |
| 121.5 | 2080 | 6.935E-07 | 4.854E-06 | 3251 |
| 122.4 | 2349 | 7.832E-07 | 5.483E-06 | 3252 |
| 123.4 | 1609 | 5.365E-07 | 3.755E-06 | 3253 |
| 124.4 | 1532 | 5.108E-07 | 3.576E-06 | 3255 |
| 125.4 | 1083 | 3.613E-07 | 2.529E-06 | 3256 |
| 126.3 | 261 | 8.710E-08 | 6.097E-07 | 3258 |
| 127.3 | 199 | 6.644E-08 | 4.651E-07 | 3259 |
| 128.3 | 192 | 6.431E-08 | 4.502E-07 | 3261 |
| 129.3 | 1 | 6.409E-10 | 4.487E-09 | 3262 |
| 130.3 | 3 | 1.202E-09 | 8.973E-09 | 3263 |
| 131.2 | 5 | 1.816E-09 | 1.271E-08 | 3264 |

CROSSWIND INTEGRATED= 7.082E-04 SEC/SQ.M  4.958E-03 1/M



U81

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 106.0 | 0 | 0. | 0. | 4810 |
| 4 108.0 | 6 | 1.997E-09 | 1.138E-08 | 4870 |
| 4 110.0 | 25 | 8.120E-09 | 4.628E-08 | 4920 |
| 4 112.0 | 77 | 2.476E-08 | 1.411E-07 | 4990 |
| 4 114.0 | 204 | 6.496E-08 | 3.703E-07 | 5080 |
| 4 116.0 | 167 | 5.324E-08 | 3.035E-07 | 5020 |
| 4 118.0 | 188 | 5.990E-08 | 3.414E-07 | 5100 |
| 4 120.0 | 38 | 1.225E-08 | 6.980E-08 | 5130 |
| P 122.0 | 15 | 5.058E-09 | 2.883E-08 | 4830 |
| 5 124.0 | 0 | 2.662E-10 | 1.517E-09 | 4660 |
| 5 126.0 | 0 | 0. | 0. | 4770 |
| 7 128.0 | 0 | 0. | 0. | 4900 |
| 130.0 | 0 | 0. | 0. | 4970 |

CROSSWIND INTEGRATED= 4.065E-05 SEC/SQ.M 2.317E-04 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 104.0 | 2 | 8.768E-10 | 6.138E-09 | 4770 |
| 4 106.0 | 1 | 6.263E-10 | 4.384E-09 | 4810 |
| 4 108.0 | 15 | 5.261E-09 | 3.683E-08 | 4870 |
| 4 110.0 | 112 | 3.762E-08 | 2.633E-07 | 4920 |
| 4 112.0 | 588 | 1.963E-07 | 1.374E-06 | 4990 |
| 4 114.0 | 805 | 2.686E-07 | 1.880E-06 | 5080 |
| 4 116.0 | 1200 | 4.001E-07 | 2.801E-06 | 5020 |
| 4 118.0 | 424 | 1.415E-07 | 9.903E-07 | 5100 |
| 4 120.0 | 404 | 1.349E-07 | 9.443E-07 | 5130 |
| E 122.0 | 431 | 1.437E-07 | 1.006E-06 | 4830 |
| 5 124.0 | 494 | 1.650E-07 | 1.155E-06 | 4660 |
| 5 126.0 | 159 | 5.328E-08 | 3.729E-07 | 4770 |
| 7 128.0 | 2 | 7.829E-10 | 5.480E-09 | 4900 |

CROSSWIND INTEGRATED= 2.689E-04 SEC/SQ.M 1.883E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 6 100.0 | 0 | 0. | 0. | 6560 |
| 5 102.0 | 1 | 5.324E-10 | 3.035E-09 | 6610 |
| 6 104.0 | 6 | 1.997E-09 | 1.138E-08 | 6650 |
| 8 106.0 | 66 | 2.103E-08 | 1.199E-07 | 6720 |
| 6 108.0 | 166 | 5.296E-08 | 3.020E-07 | 6800 |
| 8 110.0 | 228 | 7.268E-08 | 4.143E-07 | 7000 |
| 6 112.0 | 431 | 1.372E-07 | 7.823E-07 | 7300 |
| 7 114.0 | 636 | 2.025E-07 | 1.154E-06 | 7210 |
| 6 116.0 | 670 | 2.134E-07 | 1.216E-06 | 7220 |
| 6 118.0 | 391 | 1.246E-07 | 7.102E-07 | 7190 |
| 5 120.0 | 227 | 7.241E-08 | 4.128E-07 | 7150 |
| 7 122.0 | 117 | 3.740E-08 | 2.132E-07 | 7120 |
| 8 124.0 | 8 | 2.795E-09 | 1.593E-08 | 7100 |
| 7 126.0 | 14 | 4.526E-09 | 2.580E-08 | 7100 |
| 8 128.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 2.360E-04 SEC/SQ.M 1.345E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 5 102.0 | 0 | 0. | 0. | 6610 |
| 6 104.0 | 11 | 3.904E-09 | 2.733E-08 | 6650 |
| 8 106.0 | 150 | 5.029E-08 | 3.520E-07 | 6720 |
| 6 108.0 | 207 | 6.914E-08 | 4.840E-07 | 6800 |
| 8 110.0 | 746 | 2.489E-07 | 1.742E-06 | 7000 |
| 6 112.0 | 1082 | 3.607E-07 | 2.525E-06 | 7300 |
| 7 114.0 | 1141 | 3.804E-07 | 2.663E-06 | 7210 |
| 6 116.0 | 1259 | 4.199E-07 | 2.939E-06 | 7220 |
| 6 118.0 | 1509 | 5.032E-07 | 3.522E-06 | 7190 |
| 5 120.0 | 726 | 2.423E-07 | 1.696E-06 | 7150 |
| 7 122.0 | 687 | 2.292E-07 | 1.604E-06 | 7120 |
| 8 124.0 | 142 | 4.766E-08 | 3.336E-07 | 7100 |
| 7 126.0 | 286 | 9.545E-08 | 6.681E-07 | 7100 |
| E 128.0 | 20 | 6.827E-09 | 4.779E-08 | 7100 |
| 7 130.0 | 1 | 5.323E-10 | 3.726E-09 | 7130 |
| P 132.0 | 4 | 1.399E-09 | 9.791E-09 | 7150 |
| 5 134.0 | 0 | 0. | 0. | 7200 |

CROSSWIND INTEGRATED= 6.647E-04 SEC/SQ.M 4.653E-03 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 5.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.0 | 0 | 0. | 0. | 12800 |
| 100.0 | 1 | 3.993E-10 | 2.276E-09 | 12800 |
| 4 101.0 | 0 | 0. | 0. | 12800 |
| 4 102.0 | 12 | 4.126E-09 | 2.352E-08 | 12800 |
| 4 103.0 | 4 | 1.331E-09 | 7.587E-09 | 12800 |
| 4 104.0 | 12 | 3.993E-09 | 2.276E-08 | 12800 |
| 7 105.0 | 25 | 7.987E-09 | 4.552E-08 | 12800 |
| 6 106.0 | 8 | 2.795E-09 | 1.593E-08 | 12800 |
| 4 107.0 | 58 | 1.850E-08 | 1.055E-07 | 12800 |
| E 108.0 | 66 | 2.130E-08 | 1.214E-07 | 12800 |
| E 109.0 | 80 | 2.556E-08 | 1.457E-07 | 12800 |
| 5 110.0 | 86 | 2.742E-08 | 1.563E-07 | 12800 |
| E 111.0 | 87 | 2.769E-08 | 1.578E-07 | 12800 |
| E 112.0 | 86 | 2.755E-08 | 1.571E-07 | 12800 |
| 4 113.0 | 86 | 2.742E-08 | 1.563E-07 | 12800 |
| E 114.0 | 85 | 2.715E-08 | 1.548E-07 | 12800 |
| E 115.0 | 84 | 2.676E-08 | 1.525E-07 | 12800 |
| E 116.0 | 82 | 2.622E-08 | 1.495E-07 | 12800 |
| 7 117.0 | 81 | 2.582E-08 | 1.472E-07 | 12800 |
| E 118.0 | 77 | 2.463E-08 | 1.404E-07 | 12800 |
| 5 119.0 | 73 | 2.329E-08 | 1.328E-07 | 12800 |
| 5 120.0 | 0 | 1.331E-10 | 7.587E-10 | 12800 |
| 7 121.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 7.821E-05 SEC/SQ.M 4.458E-04 1/M

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 7.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 99.0 | 0 | 3.131E-11 | 2.192E-10 | 12800 |
| 4 100.0 | 0 | 6.263E-11 | 4.384E-10 | 12800 |
| 4 101.0 | 8 | 2.870E-09 | 2.009E-08 | 12800 |
| 4 102.0 | 7 | 2.453E-09 | 1.717E-08 | 12800 |
| 4 103.0 | 38 | 1.300E-08 | 9.097E-08 | 12800 |
| 4 104.0 | 49 | 1.644E-08 | 1.151E-07 | 12800 |
| 7 105.0 | 81 | 2.709E-08 | 1.896E-07 | 12800 |
| 6 106.0 | 128 | 4.274E-08 | 2.992E-07 | 12800 |
| 4 107.0 | 172 | 5.736E-08 | 4.015E-07 | 12800 |
| 5 108.0 | 121 | 4.066E-08 | 2.846E-07 | 12800 |
| 4 109.0 | 168 | 5.631E-08 | 3.942E-07 | 12800 |
| 5 110.0 | 334 | 1.116E-07 | 7.814E-07 | 12800 |
| 6 111.0 | 253 | 8.450E-08 | 5.915E-07 | 12800 |
| 5 112.0 | 247 | 8.241E-08 | 5.769E-07 | 12800 |
| 4 113.0 | 262 | 8.763E-08 | 6.134E-07 | 12800 |
| 8 114.0 | 325 | 1.085E-07 | 7.595E-07 | 12800 |
| 5 115.0 | 256 | 8.554E-08 | 5.988E-07 | 12800 |
| 8 116.0 | 391 | 1.304E-07 | 9.130E-07 | 12800 |
| 7 117.0 | 550 | 1.837E-07 | 1.286E-06 | 12800 |
| 9 118.0 | 190 | 6.362E-08 | 4.453E-07 | 12800 |
| 5 119.0 | 334 | 1.116E-07 | 7.814E-07 | 12800 |
| 5 120.0 | 168 | 5.631E-08 | 3.942E-07 | 12800 |
| 7 121.0 | 47 | 1.581E-08 | 1.107E-07 | 12800 |
| 5 122.0 | 10 | 3.601E-09 | 2.521E-08 | 12800 |
| 8 123.0 | 2 | 7.829E-10 | 5.480E-09 | 12800 |

1202828



U8

| | | | | | |
|---|---|---|---|---|---|
| 5 | 124.0 | 1 | 3.445E-10 | 2.411E-09 | 12800 |
| 7 | 125.0 | 2 | 7.515E-10 | 5.261E-09 | 12800 |
| 7 | 126.0 | 0 | 0. | 0. | 12800 |
| 8 | 127.0 | 2 | 8.142E-10 | 5.699E-09 | 12800 |
| 5 | 128.0 | 0 | 1.879E-10 | 1.315E-09 | 12800 |
| 7 | 129.0 | 0 | 0. | 0. | 12800 |
| 7 | 130.0 | 60 | 2.020E-08 | 1.414E-07 | 12800 |
| 8 | 131.0 | 2 | 8.455E-10 | 5.918E-09 | 12800 |
| 8 | 132.0 | 2 | 9.081E-10 | 6.357E-09 | 12800 |
| 9 | 133.0 | 4 | 1.409E-09 | 9.864E-09 | 12800 |
| 7 | 134.0 | 1 | 4.071E-10 | 2.850E-09 | 12800 |
| 0 | 135.0 | 1 | 5.010E-10 | 3.507E-09 | 12800 |
| 8 | 136.0 | 3 | 1.305E-09 | 9.133E-09 | 12800 |
| 7 | 137.0 | 2 | 7.202E-10 | 5.042E-09 | 12800 |

CROSSWIND INTEGRATED= 3.158E-04 2.210E-03
SEC/SQ.M 1/M

1202829



U81

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. NO FLUORESCEIN DETECTED AT 400M ARC. HIGH DUST LEVEL ON FILTERS ON 5000, 7000 AND 12800M ARCS. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- PARTICULARLY ZNS.) LARGE DIRECTION SHEAR. PLUME CENTERLINE SHIFTS LOCATION STARTING AT 3200M.

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 2 | 9.820E-10 | 4.616E-09 | 400 |
| 98.0 | 59 | 2.013E-08 | 9.462E-08 | 400 |
| 102.0 | 333 | 1.134E-07 | 5.331E-07 | 400 |
| 106.0 | 1631 | 5.548E-07 | 2.608E-06 | 400 |
| 110.0 | 2658 | 9.040E-07 | 4.249E-06 | 400 |
| 114.0 | 3722 | 1.266E-06 | 5.949E-06 | 400 |
| 118.0 | 8625 | 2.933E-06 | 1.378E-05 | 400 |
| 122.0 | 2223 | 7.562E-07 | 3.554E-06 | 400 |
| 126.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.829E-04 SEC/SQ.M 8.594E-04 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 124.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.0 | 0 | 0. | 0. | 800 |
| 97.1 | 100 | 3.409E-08 | 1.602E-07 | 806 |
| 99.1 | 542 | 1.844E-07 | 8.667E-07 | 809 |
| 101.1 | 1458 | 4.959E-07 | 2.331E-06 | 813 |
| 103.0 | 1449 | 4.928E-07 | 2.316E-06 | 816 |
| 105.0 | 2214 | 7.531E-07 | 3.540E-06 | 820 |
| 106.9 | 4534 | 1.542E-06 | 7.247E-06 | 823 |
| 108.8 | 7847 | 2.668E-06 | 1.254E-05 | 826 |
| E 110.7 | 15713 | 5.343E-06 | 2.511E-05 | 829 |
| 112.6 | 22281 | 7.576E-06 | 3.561E-05 | 833 |
| 114.5 | 35884 | 1.220E-05 | 5.735E-05 | 836 |
| 116.4 | 31327 | 1.065E-05 | 5.006E-05 | 839 |
| 118.3 | 40114 | 1.364E-05 | 6.411E-05 | 842 |
| 120.2 | 20945 | 7.122E-06 | 3.347E-05 | 845 |
| 122.1 | 11352 | 3.860E-06 | 1.814E-05 | 848 |
| 124.0 | 5409 | 1.839E-06 | 8.645E-06 | 851 |
| 125.8 | 91 | 3.099E-08 | 1.457E-07 | 854 |
| 127.7 | 0 | 0. | 0. | 857 |

CROSSWIND INTEGRATED= 1.900E-03 SEC/SQ.M 8.932E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 112.6 | 65 | 2.276E-08 | 1.047E-07 | 833 |
| 114.5 | 33 | 1.157E-08 | 5.320E-08 | 836 |
| 116.4 | 25 | 8.954E-09 | 4.119E-08 | 839 |
| 118.3 | 769 | 2.671E-07 | 1.229E-06 | 842 |
| 120.2 | 12 | 4.228E-09 | 1.945E-08 | 845 |
| 122.1 | 8795 | 3.054E-06 | 1.405E-05 | 848 |
| 124.0 | 3455 | 1.200E-06 | 5.519E-06 | 851 |
| 125.8 | 3681 | 1.278E-06 | 5.880E-06 | 854 |
| 127.7 | 22 | 7.835E-09 | 3.604E-08 | 857 |

CROSSWIND INTEGRATED= 1.631E-04 SEC/SQ.M 7.502E-04 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.0 | 33 | 1.123E-08 | 5.277E-08 | 1200 |
| 90.0 | 50 | 1.725E-08 | 8.109E-08 | 1200 |
| 92.0 | 46 | 1.588E-08 | 7.466E-08 | 1200 |
| 94.0 | 105 | 3.588E-08 | 1.686E-07 | 1200 |
| 96.0 | 219 | 7.449E-08 | 3.501E-07 | 1200 |
| 98.0 | 413 | 1.408E-07 | 6.616E-07 | 1200 |
| 100.0 | 654 | 2.237E-07 | 1.052E-06 | 1200 |
| 102.0 | 1339 | 4.554E-07 | 2.141E-06 | 1200 |
| 104.0 | 1935 | 6.581E-07 | 3.093E-06 | 1200 |
| 106.0 | 5283 | 1.797E-06 | 8.444E-06 | 1200 |
| 108.0 | 7186 | 2.444E-06 | 1.149E-05 | 1200 |
| 110.0 | 15396 | 5.235E-06 | 2.461E-05 | 1200 |
| E 112.0 | 12144 | 4.129E-06 | 1.941E-05 | 1200 |
| 114.0 | 27956 | 9.506E-06 | 4.468E-05 | 1200 |
| E 116.0 | 25247 | 8.585E-06 | 4.035E-05 | 1200 |
| 118.0 | 21708 | 7.381E-06 | 3.469E-05 | 1200 |
| N 120.0 | 7604 | 2.586E-06 | 1.215E-05 | 1200 |
| 122.0 | 3605 | 1.226E-06 | 5.763E-06 | 1200 |
| S 124.0 | 314 | 1.071E-07 | 5.035E-07 | 1200 |
| 126.0 | 57 | 1.972E-08 | 9.268E-08 | 1200 |
| 128.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.470E-03 SEC/SQ.M 6.790E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| S 112.0 | 4 | 1.444E-09 | 6.844E-09 | 1200 |
| 114.0 | 1 | 4.187E-10 | 1.926E-09 | 1200 |
| S 116.0 | 49 | 1.721E-08 | 7.915E-08 | 1200 |
| 118.0 | 1024 | 3.557E-07 | 1.636E-06 | 1200 |
| N 120.0 | 3417 | 1.187E-06 | 5.458E-06 | 1200 |
| 122.0 | 2738 | 9.510E-07 | 4.375E-06 | 1200 |
| S 124.0 | 7305 | 2.537E-06 | 1.167E-05 | 1200 |
| 126.0 | 6392 | 2.220E-06 | 1.021E-05 | 1200 |
| 128.0 | 1708 | 5.931E-07 | 2.728E-06 | 1200 |
| 130.0 | 0 | 2.366E-10 | 1.090E-09 | 1200 |
| 132.0 | 758 | 2.634E-07 | 1.212E-06 | 1200 |
| 134.0 | 1 | 3.559E-10 | 1.637E-09 | 1200 |

CROSSWIND INTEGRATED= 3.404E-04 SEC/SQ.M 1.566E-03 1/M

1202830



U8

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 1600 |
| 92.0 | 31 | 1.068E-08 | 5.020E-08 | 1600 |
| 93.6 | 36 | 1.226E-08 | 5.764E-08 | 1603 |
| 94.0 | 136 | 4.656E-08 | 2.188E-07 | 1600 |
| 94.6 | 102 | 3.475E-08 | 1.633E-07 | 1604 |
| 95.6 | 258 | 8.789E-08 | 4.131E-07 | 1606 |
| 96.6 | 249 | 8.482E-08 | 3.987E-07 | 1608 |
| 97.6 | 354 | 1.206E-07 | 5.668E-07 | 1610 |
| 98.6 | 598 | 2.034E-07 | 9.558E-07 | 1611 |
| 99.6 | 901 | 3.066E-07 | 1.441E-06 | 1613 |
| 100.6 | 1157 | 3.934E-07 | 1.849E-06 | 1615 |
| 101.6 | 1860 | 6.326E-07 | 2.973E-06 | 1617 |
| 102.6 | 2692 | 9.157E-07 | 4.304E-06 | 1618 |
| 103.6 | 3324 | 1.130E-06 | 5.312E-06 | 1620 |
| 104.5 | 4006 | 1.362E-06 | 6.403E-06 | 1622 |
| 105.5 | 5211 | 1.772E-06 | 8.329E-06 | 1623 |
| 106.5 | 7576 | 2.576E-06 | 1.211E-05 | 1625 |
| 107.5 | 9040 | 3.074E-06 | 1.445E-05 | 1627 |
| 108.5 | 13347 | 4.538E-06 | 2.133E-05 | 1628 |
| 109.5 | 13332 | 4.533E-06 | 2.131E-05 | 1630 |
| 110.4 | 17233 | 5.860E-06 | 2.754E-05 | 1632 |
| 111.4 | 20305 | 6.904E-06 | 3.245E-05 | 1633 |
| 112.4 | 19499 | 6.630E-06 | 3.116E-05 | 1635 |
| 113.4 | 24038 | 8.173E-06 | 3.842E-05 | 1637 |
| 114.4 | 21618 | 7.351E-06 | 3.455E-05 | 1638 |
| 115.3 | 21681 | 7.372E-06 | 3.465E-05 | 1640 |
| 116.3 | 19722 | 6.706E-06 | 3.152E-05 | 1641 |
| 117.3 | 24110 | 8.198E-06 | 3.853E-05 | 1643 |
| 118.2 | 13209 | 4.491E-06 | 2.111E-05 | 1644 |
| 119.2 | 15066 | 5.123E-06 | 2.408E-05 | 1646 |
| 120.2 | 16016 | 5.446E-06 | 2.560E-05 | 1647 |
| 121.2 | 13347 | 4.538E-06 | 2.133E-05 | 1649 |
| 122.1 | 9314 | 3.167E-06 | 1.488E-05 | 1650 |
| 123.1 | 580 | 1.972E-07 | 9.270E-07 | 1652 |
| 124.1 | 378 | 1.285E-07 | 6.038E-07 | 1653 |
| 125.0 | 691 | 2.350E-07 | 1.105E-06 | 1655 |
| 126.0 | 580 | 1.972E-07 | 9.270E-07 | 1656 |
| 126.9 | 0 | 0. | 0. | 1658 |

CROSSWIND INTEGRATED= 2.860E-03 SEC/SQ.M 1.344E-02 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 2200 |
| X 94.0 | 0 | 0. | 0. | 2200 |
| 100.0 | 179 | 6.088E-08 | 2.862E-07 | 2200 |
| 102.0 | 259 | 8.820E-08 | 4.145E-07 | 2200 |
| 104.0 | 620 | 2.075E-07 | 9.755E-07 | 2200 |
| E 106.0 | 769 | 2.617E-07 | 1.230E-06 | 2200 |
| F 108.0 | 1008 | 3.430E-07 | 1.612E-06 | 2200 |
| 7 110.0 | 1430 | 4.865E-07 | 2.287E-06 | 2200 |
| L 112.0 | 2469 | 8.396E-07 | 3.946E-06 | 2200 |
| 114.0 | 3861 | 1.313E-06 | 6.170E-06 | 2200 |
| 5 116.0 | 4064 | 1.382E-06 | 6.495E-06 | 2200 |
| 4 118.0 | 1425 | 4.847E-07 | 2.278E-06 | 2200 |
| 0 120.0 | 349 | 1.169E-07 | 5.589E-07 | 2200 |
| E 122.0 | 251 | 8.535E-08 | 4.012E-07 | 2200 |
| E 124.0 | 202 | 6.899E-08 | 3.243E-07 | 2200 |
| 126.0 | 176 | 6.003E-08 | 2.821E-07 | 2200 |
| 128.0 | 109 | 3.727E-08 | 1.752E-07 | 2200 |
| 130.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 4.483E-04 SEC/SQ.M 2.107E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 113.4 | 0 | 1.476E-10 | 6.791E-10 | 1637 |
| 114.4 | 36 | 1.255E-08 | 5.772E-08 | 1638 |
| 115.3 | 279 | 9.719E-08 | 4.471E-07 | 1640 |
| 116.3 | 964 | 3.350E-07 | 1.541E-06 | 1641 |
| 117.3 | 86 | 2.994E-08 | 1.377E-07 | 1643 |
| 118.2 | 1271 | 4.417E-07 | 2.032E-06 | 1644 |
| 119.2 | 4609 | 1.601E-06 | 7.363E-06 | 1646 |
| 120.2 | 3865 | 1.342E-06 | 6.174E-06 | 1647 |
| 121.2 | 10909 | 3.788E-06 | 1.742E-05 | 1649 |
| 122.1 | 11405 | 3.960E-06 | 1.822E-05 | 1650 |
| 123.1 | 20533 | 7.060E-06 | 3.246E-05 | 1652 |
| 124.1 | 13389 | 4.649E-06 | 2.139E-05 | 1653 |
| 125.0 | 2923 | 1.015E-06 | 4.669E-06 | 1655 |
| 126.0 | 4907 | 1.704E-06 | 7.836E-06 | 1656 |
| 126.9 | 2278 | 7.910E-07 | 3.639E-06 | 1658 |
| 127.8 | 2427 | 8.427E-07 | 3.876E-06 | 1659 |
| 128.8 | 3369 | 1.170E-06 | 5.382E-06 | 1660 |
| 129.7 | 765 | 2.448E-07 | 1.126E-06 | 1662 |
| 130.6 | 2476 | 8.599E-07 | 3.956E-06 | 1663 |
| 131.5 | 1012 | 3.514E-07 | 1.617E-06 | 1664 |
| 132.5 | 2334 | 8.107E-07 | 3.729E-06 | 1665 |
| 133.5 | 1 | 5.741E-10 | 2.641E-09 | 1667 |

CROSSWIND INTEGRATED= 8.656E-04 SEC/SQ.M 3.982E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 114.0 | 4 | 1.664E-09 | 7.652E-09 | 2200 |
| 5 116.0 | 149 | 5.208E-08 | 2.395E-07 | 2200 |
| 4 118.0 | 1063 | 3.694E-07 | 1.699E-06 | 2200 |
| 0 120.0 | 2366 | 8.215E-07 | 3.779E-06 | 2200 |
| E 122.0 | 4536 | 1.575E-06 | 7.245E-06 | 2200 |
| E 124.0 | 5456 | 1.895E-06 | 8.716E-06 | 2200 |
| 126.0 | 4647 | 1.614E-06 | 7.424E-06 | 2200 |
| 128.0 | 1991 | 6.914E-07 | 3.180E-06 | 2200 |
| 5 130.0 | 1708 | 5.932E-07 | 2.729E-06 | 2200 |
| E 132.0 | 653 | 2.964E-07 | 1.363E-06 | 2200 |
| E 134.0 | 286 | 9.958E-08 | 4.580E-07 | 2200 |
| 136.0 | 70 | 2.455E-08 | 1.129E-07 | 2200 |
| 3 138.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 6.149E-04 SEC/SQ.M 2.830E-03 1/M

1202831



U82

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 95.8 | 0 | 0. | 0. | 3200 |
| 96.8 | 4 | 1.456E-09 | 6.842E-09 | 3210 |
| 97.8 | 5 | 1.941E-09 | 9.123E-09 | 3212 |
| 98.8 | 29 | 1.019E-08 | 4.790E-08 | 3213 |
| 99.8 | 47 | 1.601E-08 | 7.527E-08 | 3215 |
| 100.8 | 81 | 2.766E-08 | 1.300E-07 | 3217 |
| 101.8 | 88 | 3.009E-08 | 1.414E-07 | 3218 |
| 102.8 | 182 | 6.211E-08 | 2.919E-07 | 3220 |
| 103.8 | 353 | 1.203E-07 | 5.656E-07 | 3222 |
| 104.8 | 418 | 1.422E-07 | 6.683E-07 | 3224 |
| 105.8 | 971 | 3.305E-07 | 1.553E-06 | 3225 |
| 106.8 | 1277 | 4.343E-07 | 2.041E-06 | 3227 |
| 107.8 | 880 | 2.994E-07 | 1.407E-06 | 3229 |
| 108.8 | 2510 | 8.536E-07 | 4.012E-06 | 3230 |
| 109.7 | 1909 | 6.493E-07 | 3.052E-06 | 3232 |
| 110.7 | 2631 | 8.948E-07 | 4.206E-06 | 3233 |
| 111.7 | 4445 | 1.512E-06 | 7.105E-06 | 3235 |
| 112.7 | 3488 | 1.186E-06 | 5.574E-06 | 3237 |
| 113.7 | 8527 | 2.899E-06 | 1.363E-05 | 3238 |
| 114.6 | 2812 | 9.565E-07 | 4.495E-06 | 3240 |
| 115.6 | 4023 | 1.368E-06 | 6.430E-06 | 3241 |
| 116.6 | 1210 | 4.115E-07 | 1.934E-06 | 3243 |
| 117.6 | 1646 | 5.600E-07 | 2.632E-06 | 3245 |
| 118.6 | 913 | 3.106E-07 | 1.460E-06 | 3246 |
| 119.5 | 10037 | 3.413E-06 | 1.604E-05 | 3248 |
| 120.5 | 7539 | 2.564E-06 | 1.205E-05 | 3249 |
| 121.5 | 5095 | 1.732E-06 | 8.142E-06 | 3251 |
| 122.4 | 5782 | 1.966E-06 | 9.242E-06 | 3252 |
| 123.4 | 5805 | 1.974E-06 | 9.278E-06 | 3253 |
| 124.4 | 4713 | 1.603E-06 | 7.533E-06 | 3255 |
| 125.4 | 4150 | 1.411E-06 | 6.632E-06 | 3256 |
| 126.3 | 3802 | 1.293E-06 | 6.076E-06 | 3258 |
| 127.3 | 1213 | 4.125E-07 | 1.939E-06 | 3259 |
| 128.3 | 466 | 1.587E-07 | 7.458E-07 | 3261 |
| 129.3 | 98 | 3.344E-08 | 1.574E-07 | 3262 |
| 130.3 | 152 | 5.192E-08 | 2.440E-07 | 3263 |
| 131.2 | 0 | 0. | 0. | 3264 |
| 132.2 | 2 | 9.705E-10 | 4.562E-09 | 3266 |

CROSSWIND INTEGRATED= 1.638E-03 SEC/SQ.M 7.697E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 4710 |
| 104.0 | 6 | 2.276E-09 | 1.070E-08 | 4770 |
| 106.0 | 16 | 5.690E-09 | 2.674E-08 | 4810 |
| 108.0 | 52 | 1.778E-08 | 8.357E-08 | 4870 |
| 110.0 | 220 | 7.511E-08 | 3.530E-07 | 4920 |
| 112.0 | 220 | 7.497E-08 | 3.523E-07 | 4990 |
| 114.0 | 955 | 3.249E-07 | 1.527E-06 | 5080 |
| 116.0 | 2268 | 7.714E-07 | 3.626E-06 | 5020 |
| 118.0 | 1082 | 3.682E-07 | 1.730E-06 | 5100 |
| E 120.0 | 1217 | 4.138E-07 | 1.945E-06 | 5130 |
| 122.0 | 1376 | 4.680E-07 | 2.200E-06 | 4830 |
| 124.0 | 1581 | 5.377E-07 | 2.527E-06 | 4660 |
| 126.0 | 2226 | 7.572E-07 | 3.559E-06 | 4770 |
| E 128.0 | 566 | 1.928E-07 | 9.059E-07 | 4900 |
| 8 130.0 | 389 | 1.326E-07 | 6.231E-07 | 4970 |
| 0 132.0 | 135 | 4.623E-08 | 2.173E-07 | 4980 |
| 7 134.0 | 31 | 1.067E-08 | 5.014E-08 | 4990 |
| 136.0 | 0 | 0. | 0. | 5000 |

CROSSWIND INTEGRATED= 7.211E-04 SEC/SQ.M 3.389E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.8 | 0 | 3.338E-11 | 1.536E-10 | 3230 |
| 109.7 | 34 | 1.192E-08 | 5.484E-08 | 3232 |
| 110.7 | 38 | 1.340E-08 | 6.166E-08 | 3233 |
| 111.7 | 67 | 2.342E-08 | 1.077E-07 | 3235 |
| 112.7 | 41 | 1.452E-08 | 6.678E-08 | 3237 |
| 113.7 | 81 | 2.824E-08 | 1.299E-07 | 3238 |
| 114.6 | 649 | 2.256E-07 | 1.038E-06 | 3240 |
| 115.6 | 468 | 1.625E-07 | 7.476E-07 | 3241 |
| 3 116.6 | 884 | 3.072E-07 | 1.413E-06 | 3243 |
| 3 117.6 | 371 | 1.291E-07 | 5.940E-07 | 3245 |
| 3 118.6 | 1097 | 3.810E-07 | 1.753E-06 | 3246 |
| 119.5 | 1366 | 4.744E-07 | 2.182E-06 | 3248 |
| 120.5 | 3834 | 1.331E-06 | 6.124E-06 | 3249 |
| 121.5 | 2757 | 9.574E-07 | 4.404E-06 | 3251 |
| 122.4 | 3362 | 1.168E-06 | 5.371E-06 | 3252 |
| 123.4 | 5830 | 2.024E-06 | 9.313E-06 | 3253 |
| 124.4 | 4708 | 1.635E-06 | 7.521E-06 | 3255 |
| 125.4 | 5830 | 2.024E-06 | 9.313E-06 | 3256 |
| 126.3 | 4237 | 1.471E-06 | 6.769E-06 | 3258 |
| 127.3 | 2959 | 1.027E-06 | 4.726E-06 | 3259 |
| 128.3 | 2891 | 1.004E-06 | 4.619E-06 | 3261 |
| 129.3 | 3295 | 1.144E-06 | 5.264E-06 | 3262 |
| 130.3 | 3226 | 1.121E-06 | 5.156E-06 | 3263 |
| 131.2 | 2824 | 9.807E-07 | 4.511E-06 | 3264 |
| 132.2 | 2353 | 8.172E-07 | 3.759E-06 | 3266 |
| 133.2 | 917 | 3.187E-07 | 1.466E-06 | 3267 |
| 134.2 | 1411 | 4.900E-07 | 2.254E-06 | 3268 |
| 135.2 | 872 | 3.031E-07 | 1.394E-06 | 3270 |
| 136.2 | 715 | 2.486E-07 | 1.143E-06 | 3271 |
| 137.1 | 478 | 1.662E-07 | 7.646E-07 | 3272 |
| 138.1 | 0 | 2.003E-10 | 9.213E-10 | 3273 |
| 139.1 | 0 | 2.745E-10 | 1.263E-09 | 3274 |
| 140.1 | 87 | 3.047E-08 | 1.401E-07 | 3276 |
| 141.1 | 0 | 5.564E-11 | 2.559E-10 | 3277 |

CROSSWIND INTEGRATED= 1.113E-03 SEC/SQ.M 5.118E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.0 | 0 | 0. | 0. | 4870 |
| 110.0 | 22 | 7.957E-09 | 3.660E-08 | 4920 |
| 112.0 | 67 | 2.340E-08 | 1.076E-07 | 4990 |
| 114.0 | 69 | 2.427E-08 | 1.116E-07 | 5080 |
| 116.0 | 155 | 5.384E-08 | 2.477E-07 | 5020 |
| 118.0 | 192 | 6.669E-08 | 3.077E-07 | 5100 |
| E 120.0 | 13 | 4.695E-09 | 2.160E-06 | 5130 |
| 122.0 | 669 | 2.324E-07 | 1.069E-06 | 4830 |
| 124.0 | 452 | 1.570E-07 | 7.223E-07 | 4660 |
| 126.0 | 787 | 2.735E-07 | 1.258E-06 | 4770 |
| 9 128.0 | 1004 | 3.488E-07 | 1.605E-06 | 4900 |
| 8 130.0 | 708 | 2.461E-07 | 1.132E-06 | 4970 |
| 0 132.0 | 550 | 1.913E-07 | 8.799E-07 | 4980 |
| 7 134.0 | 590 | 2.050E-07 | 9.429E-07 | 4990 |
| 0 136.0 | 965 | 3.351E-07 | 1.542E-06 | 5000 |
| 7 138.0 | 258 | 8.972E-08 | 4.127E-07 | 5020 |
| 0 140.0 | 10 | 3.608E-09 | 1.660E-06 | 5060 |
| 0 142.0 | 47 | 1.644E-08 | 7.561E-08 | 5090 |
| 0 144.0 | 21 | 7.304E-09 | 3.360E-08 | 5130 |

CROSSWIND INTEGRATED= 3.926E-04 SEC/SQ.M 1.806E-03 1/M

1202832



U82

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 6610 |
| 104.0 | 4 | 1.423E-09 | 6.686E-09 | 6650 |
| 106.0 | 1 | 4.268E-10 | 2.006E-09 | 6720 |
| 108.0 | 0 | 0. | 0. | 6800 |
| 110.0 | 17 | 5.975E-09 | 2.808E-08 | 7000 |
| 7 112.0 | 7 | 2.703E-09 | 1.270E-08 | 7300 |
| 6 114.0 | 281 | 9.568E-08 | 4.506E-07 | 7210 |
| 8 116.0 | 299 | 1.019E-07 | 4.787E-07 | 7220 |
| 5 118.0 | 862 | 2.933E-07 | 1.379E-06 | 7190 |
| 6 120.0 | 1248 | 4.245E-07 | 1.995E-06 | 7150 |
| 4 122.0 | 1603 | 5.453E-07 | 2.563E-06 | 7120 |
| E 124.0 | 1766 | 6.007E-07 | 2.823E-06 | 7100 |
| E 126.0 | 1943 | 6.608E-07 | 3.106E-06 | 7100 |
| E 128.0 | 2446 | 8.318E-07 | 3.909E-06 | 7100 |
| 5 130.0 | 3162 | 1.075E-06 | 5.054E-06 | 7130 |
| E 132.0 | 3883 | 1.320E-06 | 6.206E-06 | 7150 |
| 5 134.0 | 5008 | 1.703E-06 | 8.004E-06 | 7200 |
| E 136.0 | 2220 | 7.551E-07 | 3.549E-06 | 7250 |
| E 138.0 | 556 | 1.898E-07 | 8.919E-07 | 7300 |
| 8 140.0 | 23 | 7.824E-09 | 3.677E-08 | 7350 |
| 5 142.0 | 0 | 0. | 0. | 7250 |
| 7 144.0 | 0 | 2.845E-10 | 1.337E-09 | 7110 |

CROSSWIND INTEGRATED= 2.153E-03 SEC/SQ.M 1.012E-02 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 8 116.0 | 18 | 6.437E-09 | 2.961E-08 | 7220 |
| 5 118.0 | 42 | 1.481E-08 | 6.812E-08 | 7190 |
| 6 120.0 | 52 | 1.807E-08 | 8.313E-08 | 7150 |
| 4 122.0 | 130 | 4.514E-08 | 2.077E-07 | 7120 |
| 9 124.0 | 167 | 5.819E-08 | 2.677E-07 | 7100 |
| 8 126.0 | 383 | 1.332E-07 | 6.126E-07 | 7100 |
| 0 128.0 | 411 | 1.430E-07 | 6.578E-07 | 7100 |
| 5 130.0 | 866 | 3.009E-07 | 1.384E-06 | 7130 |
| 8 132.0 | 748 | 2.598E-07 | 1.195E-06 | 7150 |
| 5 134.0 | 1774 | 6.160E-07 | 2.833E-06 | 7200 |
| 9 136.0 | 767 | 2.666E-07 | 1.226E-06 | 7250 |
| 8 138.0 | 308 | 1.071E-07 | 4.926E-07 | 7300 |
| 8 140.0 | 261 | 9.081E-08 | 4.177E-07 | 7350 |
| 5 142.0 | 117 | 4.080E-08 | 1.877E-07 | 7250 |
| 7 144.0 | 92 | 3.210E-08 | 1.476E-07 | 7110 |
| 4 146.0 | 47 | 1.644E-08 | 7.562E-08 | 7100 |
| E 148.0 | 17 | 6.002E-09 | 2.761E-08 | 7000 |

CROSSWIND INTEGRATED= 5.404E-04 SEC/SQ.M 2.486E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
12800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 119.0 | 0 | 0. | 0. | 12800 |
| 120.0 | 2 | 7.113E-10 | 3.343E-09 | 12800 |
| P 121.0 | 8 | 2.845E-09 | 1.337E-08 | 12800 |
| 122.0 | 30 | 1.038E-08 | 4.881E-08 | 12800 |
| 0 123.0 | 0 | 0. | 0. | 12800 |
| 8 124.0 | 5 | 1.849E-09 | 8.692E-09 | 12800 |
| 125.0 | 41 | 1.408E-08 | 6.619E-08 | 12800 |
| E 126.0 | 140 | 4.766E-08 | 2.240E-07 | 12800 |
| E 127.0 | 351 | 1.195E-07 | 5.616E-07 | 12800 |
| 5 128.0 | 758 | 2.574E-07 | 1.212E-06 | 12800 |
| 5 129.0 | 1130 | 3.844E-07 | 1.807E-06 | 12800 |
| 5 130.0 | 1341 | 4.562E-07 | 2.144E-06 | 12800 |
| 4 131.0 | 1238 | 4.212E-07 | 1.980E-06 | 12800 |
| 1 132.0 | 1717 | 5.841E-07 | 2.745E-06 | 12800 |
| 4 133.0 | 2668 | 9.073E-07 | 4.264E-06 | 12800 |
| 8 134.0 | 88 | 3.002E-08 | 1.411E-07 | 12800 |
| 4 135.0 | 79 | 2.717E-08 | 1.277E-07 | 12800 |
| 8 136.0 | 28 | 9.531E-09 | 4.480E-08 | 12800 |
| 6 137.0 | 10 | 3.414E-09 | 1.605E-08 | 12800 |
| 7 138.0 | 13 | 4.694E-09 | 2.206E-08 | 12800 |
| 139.0 | 16 | 5.548E-09 | 2.608E-08 | 12800 |
| 140.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 7.347E-04 SEC/SQ.M 3.453E-03 1/M

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 4.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 8 124.0 | 5 | 2.066E-09 | 9.503E-09 | 12800 |
| Z 125.0 | 12 | 4.240E-09 | 1.951E-08 | 12800 |
| 9 126.0 | 43 | 1.510E-08 | 6.947E-08 | 12800 |
| 9 127.0 | 118 | 4.113E-08 | 1.892E-07 | 12800 |
| 5 128.0 | 261 | 9.068E-08 | 4.171E-07 | 12800 |
| 5 129.0 | 451 | 1.569E-07 | 7.217E-07 | 12800 |
| 5 130.0 | 550 | 1.911E-07 | 8.793E-07 | 12800 |
| 4 131.0 | 649 | 2.254E-07 | 1.037E-06 | 12800 |
| E 132.0 | 787 | 2.733E-07 | 1.257E-06 | 12800 |
| 4 133.0 | 885 | 3.076E-07 | 1.415E-06 | 12800 |
| E 134.0 | 853 | 2.962E-07 | 1.362E-06 | 12800 |
| 4 135.0 | 767 | 2.665E-07 | 1.226E-06 | 12800 |
| 8 136.0 | 511 | 1.774E-07 | 8.163E-07 | 12800 |
| 6 137.0 | 418 | 1.455E-07 | 6.692E-07 | 12800 |
| 7 138.0 | 372 | 1.295E-07 | 5.957E-07 | 12800 |
| 3 139.0 | 438 | 1.523E-07 | 7.007E-07 | 12800 |
| 3 140.0 | 392 | 1.363E-07 | 6.272E-07 | 12800 |
| E 141.0 | 234 | 8.155E-08 | 3.751E-07 | 12800 |
| 3 142.0 | 140 | 4.867E-08 | 2.239E-07 | 12800 |
| 3 143.0 | 108 | 3.771E-08 | 1.735E-07 | 12800 |
| 5 144.0 | 114 | 3.976E-08 | 1.829E-07 | 12800 |
| 3 145.0 | 80 | 2.812E-08 | 1.293E-07 | 12800 |
| 3 146.0 | 36 | 1.272E-08 | 5.852E-08 | 12800 |
| 4 147.0 | 13 | 4.784E-09 | 2.201E-08 | 12800 |
| 148.0 | 70 | 2.436E-08 | 1.120E-07 | 12800 |
| 149.0 | 23 | 8.155E-09 | 3.751E-08 | 12800 |

CROSSWIND INTEGRATED= 6.472E-04 SEC/SQ.M 2.977E-03 1/M

1202833



1182

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. CENTERLINES OF FLUORESCEIN AND ZINC SULFIDE PLUMES AT SIGNIFICANTLY DIFFERENT DIRECTIONS. THERMALLY VERY STABLE ATMOSPHERE. LARGE DIRECTION SHEAR WITH HEIGHT.

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 400 |
| 106.0 | 527 | 1.798E-07 | 9.351E-07 | 400 |
| 110.0 | 7026 | 2.397E-06 | 1.247E-05 | 400 |
| 114.0 | 14767 | 5.038E-06 | 2.620E-05 | 400 |
| 118.0 | 496 | 1.695E-07 | 8.813E-07 | 400 |
| 122.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 2.174E-04 SEC/SQ.M 1.130E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.1 | 8 | 2.964E-09 | 1.544E-08 | 809 |
| 101.1 | 30 | 1.039E-08 | 5.403E-08 | 813 |
| 103.0 | 474 | 1.618E-07 | 8.413E-07 | 816 |
| 105.0 | 2675 | 9.128E-07 | 4.747E-06 | 820 |
| 106.9 | 5041 | 1.720E-06 | 8.945E-06 | 823 |
| 108.8 | 12393 | 4.229E-06 | 2.199E-05 | 826 |
| 110.7 | 15043 | 5.132E-06 | 2.669E-05 | 829 |
| 112.6 | 16530 | 5.640E-06 | 2.933E-05 | 833 |
| 114.5 | 20028 | 6.833E-06 | 3.553E-05 | 836 |
| 116.4 | 10645 | 3.632E-06 | 1.889E-05 | 839 |
| 118.3 | 1017 | 3.473E-07 | 1.806E-06 | 842 |
| 120.2 | 8 | 2.968E-09 | 1.544E-08 | 845 |

CROSSWIND INTEGRATED= 7.903E-04 SEC/SQ.M 4.109E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.0 | 0 | 0. | 0. | 1200 |
| 100.0 | 59 | 2.034E-08 | 1.057E-07 | 1200 |
| 102.0 | 120 | 4.122E-08 | 2.143E-07 | 1200 |
| 104.0 | 612 | 2.088E-07 | 1.086E-06 | 1200 |
| 106.0 | 4204 | 1.434E-06 | 7.459E-06 | 1200 |
| 108.0 | 10992 | 3.750E-06 | 1.950E-05 | 1200 |
| 110.0 | 18280 | 6.237E-06 | 3.243E-05 | 1200 |
| 112.0 | 19738 | 6.735E-06 | 3.502E-05 | 1200 |
| 114.0 | 18100 | 6.176E-06 | 3.211E-05 | 1200 |
| 8 116.0 | 4735 | 1.616E-06 | 8.401E-06 | 1200 |
| 118.0 | 780 | 2.663E-07 | 1.385E-06 | 1200 |
| 7 120.0 | 1 | 5.496E-10 | 2.858E-09 | 1200 |
| 122.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.109E-03 SEC/SQ.M 5.769E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.0 | 0 | 1.801E-10 | 1.189E-09 | 400 |
| 102.0 | 5 | 1.910E-09 | 1.260E-08 | 400 |
| 106.0 | 1 | 4.323E-10 | 2.853E-09 | 400 |
| 110.0 | 86 | 2.882E-08 | 1.902E-07 | 400 |
| 9 114.0 | 83 | 2.774E-08 | 1.831E-07 | 400 |
| 118.0 | 4 | 1.477E-09 | 9.749E-09 | 400 |
| 122.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.691E-06 SEC/SQ.M 1.116E-05 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.1 | 2 | 7.163E-10 | 4.728E-09 | 806 |
| 99.1 | 0 | 0. | 0. | 809 |
| 101.1 | 0 | 1.433E-10 | 9.456E-10 | 813 |
| 103.0 | 2 | 8.235E-10 | 5.437E-09 | 816 |
| 105.0 | 2 | 8.238E-10 | 5.437E-09 | 820 |
| 106.9 | 7 | 2.388E-09 | 1.576E-08 | 823 |
| 108.8 | 4 | 1.433E-09 | 9.456E-09 | 826 |
| 110.7 | 0 | 2.507E-10 | 1.655E-09 | 829 |
| 112.6 | 14 | 4.776E-09 | 3.152E-08 | 833 |
| 114.5 | 5 | 1.671E-09 | 1.103E-08 | 836 |
| 116.4 | 6989 | 2.330E-06 | 1.538E-05 | 839 |
| 118.3 | 0 | 1.791E-10 | 1.182E-09 | 842 |
| 120.2 | 6764 | 2.255E-06 | 1.488E-05 | 845 |
| 122.1 | 1642 | 5.474E-07 | 3.613E-06 | 848 |
| 124.0 | 0 | 0. | 0. | 851 |
| 125.8 | 13 | 4.417E-09 | 2.916E-08 | 854 |
| 127.7 | 0 | 0. | 0. | 857 |

CROSSWIND INTEGRATED= 1.439E-04 SEC/SQ.M 9.496E-04 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.0 | 1 | 6.631E-10 | 4.377E-09 | 1200 |
| 106.0 | 3 | 1.266E-09 | 8.356E-09 | 1200 |
| 108.0 | 4 | 1.507E-09 | 9.947E-09 | 1200 |
| 110.0 | 2 | 9.043E-10 | 5.968E-09 | 1200 |
| 112.0 | 9 | 3.255E-09 | 2.149E-08 | 1200 |
| 114.0 | 1326 | 4.427E-07 | 2.919E-06 | 1200 |
| 6 116.0 | 2541 | 8.473E-07 | 5.592E-06 | 1200 |
| 8 118.0 | 1288 | 4.295E-07 | 2.835E-06 | 1200 |
| 7 120.0 | 1668 | 5.561E-07 | 3.671E-06 | 1200 |
| 122.0 | 1098 | 3.662E-07 | 2.417E-06 | 1200 |
| 124.0 | 15 | 5.299E-09 | 3.497E-08 | 1200 |
| 126.0 | 339 | 1.130E-07 | 7.460E-07 | 1200 |
| 3 128.0 | 9 | 3.075E-09 | 2.029E-08 | 1200 |
| 130.0 | 64 | 2.140E-08 | 1.413E-07 | 1200 |
| 4 132.0 | 6 | 2.291E-09 | 1.512E-08 | 1200 |
| 134.0 | 36 | 1.216E-08 | 8.024E-08 | 1200 |
| 136.0 | 51 | 1.718E-08 | 1.134E-07 | 1200 |
| 138.0 | 3 | 1.326E-09 | 8.754E-09 | 1200 |
| 0 140.0 | 2 | 8.440E-10 | 5.570E-09 | 1200 |

CROSSWIND INTEGRATED= 1.184E-04 SEC/SQ.M 7.812E-04 1/M

1202834



U8

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.6 | 6 | 2.051E-09 | 1.066E-08 | 1613 |
| 100.6 | 36 | 1.025E-08 | 5.332E-08 | 1615 |
| 101.6 | 132 | 4.512E-08 | 2.346E-07 | 1617 |
| 102.6 | 258 | 8.819E-08 | 4.586E-07 | 1618 |
| 103.6 | 760 | 2.594E-07 | 1.349E-06 | 1620 |
| 104.5 | 399 | 1.364E-07 | 7.092E-07 | 1622 |
| 105.5 | 2287 | 7.803E-07 | 4.056E-06 | 1623 |
| 106.5 | 3483 | 1.188E-06 | 6.180E-06 | 1625 |
| 107.5 | 6188 | 2.111E-06 | 1.098E-05 | 1627 |
| 108.5 | 17846 | 6.089E-06 | 3.166E-05 | 1628 |
| 109.5 | 13125 | 4.478E-06 | 2.329E-05 | 1630 |
| 110.6 | 34833 | 1.188E-05 | 6.180E-05 | 1632 |
| 111.4 | 30641 | 1.045E-05 | 5.436E-05 | 1633 |
| 112.4 | 24422 | 8.333E-06 | 4.333E-05 | 1635 |
| 113.4 | 24302 | 8.292E-06 | 4.312E-05 | 1637 |
| 114.4 | 14997 | 5.117E-06 | 2.661E-05 | 1638 |
| 115.3 | 12572 | 4.289E-06 | 2.230E-05 | 1640 |
| 116.3 | 5145 | 1.756E-06 | 9.129E-06 | 1641 |
| 117.3 | 1292 | 4.409E-07 | 2.293E-06 | 1643 |
| 118.2 | 736 | 2.512E-07 | 1.306E-06 | 1644 |
| 119.2 | 553 | 1.887E-07 | 9.811E-07 | 1646 |
| 120.2 | 0 | 0. | 0. | 1647 |

CROSSWIND INTEGRATED= 1.849E-03 SEC/SQ.M 9.615E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 2.855E-10 | 1.484E-09 | 2200 |
| 102.0 | 46 | 1.594E-08 | 8.239E-08 | 2200 |
| 104.0 | 668 | 2.292E-07 | 1.187E-06 | 2200 |
| 106.0 | 1150 | 3.924E-07 | 2.040E-06 | 2200 |
| 108.0 | 1617 | 5.520E-07 | 2.870E-06 | 2200 |
| 110.0 | 3916 | 1.336E-06 | 6.946E-06 | 2200 |
| 112.0 | 3216 | 1.098E-06 | 5.707E-06 | 2200 |
| 114.0 | 1736 | 5.924E-07 | 3.080E-06 | 2200 |
| 116.0 | 267 | 9.121E-08 | 4.743E-07 | 2200 |
| 118.0 | 12 | 4.139E-09 | 2.153E-08 | 2200 |
| 120.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 3.310E-04 SEC/SQ.M 1.721E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 112.4 | 0 | 0. | 0. | 1635 |
| 113.4 | 485 | 1.618E-07 | 1.068E-06 | 1637 |
| 114.4 | 5792 | 1.931E-06 | 1.274E-05 | 1638 |
| 115.3 | 4453 | 1.465E-06 | 9.796E-06 | 1640 |
| 116.3 | 6685 | 2.229E-06 | 1.471E-05 | 1641 |
| 117.3 | 286 | 9.566E-08 | 6.314E-07 | 1643 |
| 118.2 | 3036 | 1.012E-06 | 6.680E-06 | 1644 |
| 119.2 | 3178 | 1.059E-06 | 6.992E-06 | 1646 |
| 120.2 | 209 | 6.958E-08 | 4.599E-07 | 1647 |
| 121.2 | 886 | 2.957E-07 | 1.951E-06 | 1649 |
| 122.1 | 9066 | 3.022E-06 | 1.995E-05 | 1650 |
| 123.1 | 2469 | 8.232E-07 | 5.433E-06 | 1652 |
| 124.1 | 957 | 3.193E-07 | 2.107E-06 | 1653 |
| 125.0 | 13 | 4.488E-09 | 2.962E-08 | 1655 |
| 126.0 | 3 | 1.181E-09 | 7.795E-09 | 1656 |
| 126.9 | 6 | 2.126E-09 | 1.403E-08 | 1658 |
| 127.8 | 11 | 3.779E-09 | 2.494E-08 | 1659 |
| 128.8 | 0 | 0. | 0. | 1660 |
| 129.7 | 0 | 0. | 0. | 1662 |
| 130.7 | 23 | 7.795E-09 | 5.145E-08 | 1663 |
| 131.5 | 0 | 0. | 0. | 1664 |
| 132.5 | 9 | 3.071E-09 | 2.027E-08 | 1665 |
| 133.5 | 0 | 0. | 0. | 1667 |

CROSSWIND INTEGRATED= 3.478E-04 SEC/SQ.M 2.295E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
2200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.0 | 0 | 4.175E-11 | 2.756E-10 | 2200 |
| 106.0 | 0 | 1.983E-10 | 1.309E-09 | 2200 |
| 108.0 | 1 | 4.071E-10 | 2.687E-09 | 2200 |
| 110.0 | 1 | 3.445E-10 | 2.273E-09 | 2200 |
| 112.0 | 6 | 2.161E-09 | 1.426E-08 | 2200 |
| 114.0 | 906 | 3.020E-07 | 1.993E-06 | 2200 |
| 116.0 | 1419 | 4.730E-07 | 3.122E-06 | 2200 |
| 118.0 | 2845 | 9.484E-07 | 6.259E-06 | 2200 |
| 120.0 | 3319 | 1.106E-06 | 7.303E-06 | 2200 |
| 122.0 | 1320 | 4.401E-07 | 2.905E-06 | 2200 |
| 124.0 | 51 | 1.729E-08 | 1.141E-07 | 2200 |
| 126.0 | 51 | 1.729E-08 | 1.141E-07 | 2200 |
| 128.0 | 1 | 4.384E-10 | 2.893E-09 | 2200 |
| 130.0 | 7 | 2.662E-09 | 1.757E-08 | 2200 |
| 132.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 2.543E-04 SEC/SQ.M 1.678E-03 1/M

1202635



U83

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.8 | 0 | 0. | 0. | 3217 |
| 101.8 | 29 | 1.023E-08 | 5.317E-08 | 3218 |
| 102.8 | 38 | 1.315E-08 | 6.836E-08 | 3220 |
| 103.8 | 274 | 9.349E-08 | 4.861E-07 | 3222 |
| 104.8 | 526 | 1.797E-07 | 9.343E-07 | 3224 |
| 105.8 | 453 | 1.548E-07 | 8.052E-07 | 3225 |
| 106.8 | 870 | 2.970E-07 | 1.545E-06 | 3227 |
| 107.8 | 1143 | 3.900E-07 | 2.028E-06 | 3229 |
| W 108.8 | 9612 | 3.279E-06 | 1.705E-05 | 3230 |
| W 109.7 | 10818 | 3.691E-06 | 1.919E-05 | 3232 |
| W 110.7 | 9697 | 3.309E-06 | 1.721E-05 | 3233 |
| 111.7 | 3769 | 1.266E-06 | 6.687E-06 | 3235 |
| 112.7 | 4322 | 1.475E-06 | 7.669E-06 | 3237 |
| 113.7 | 5112 | 1.744E-06 | 9.070E-06 | 3238 |
| 114.6 | 5755 | 1.964E-06 | 1.021E-05 | 3240 |
| 115.6 | 5270 | 1.798E-06 | 9.351E-06 | 3241 |
| 116.6 | 518 | 1.768E-07 | 9.191E-07 | 3243 |
| 4 117.6 | 25 | 8.765E-09 | 4.558E-08 | 3245 |
| 4 118.6 | 2 | 9.739E-10 | 5.064E-09 | 3246 |

CROSSWIND INTEGRATED= 1.092E-03 SEC/SQ.M 5.676E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.8 | 0 | 5.341E-11 | 3.525E-10 | 3224 |
| 105.8 | 1 | 3.561E-10 | 2.350E-09 | 3225 |
| 106.8 | 1 | 6.409E-10 | 4.230E-09 | 3227 |
| 107.8 | 2 | 9.258E-10 | 6.110E-09 | 3229 |
| 108.8 | 2 | 9.614E-10 | 6.345E-09 | 3230 |
| 109.7 | 0 | 0. | 0. | 3232 |
| 110.7 | 216 | 7.211E-08 | 4.759E-07 | 3233 |
| 111.7 | 58 | 1.941E-08 | 1.281E-07 | 3235 |
| 112.7 | 84 | 2.831E-08 | 1.868E-07 | 3237 |
| 113.7 | 404 | 1.348E-07 | 8.895E-07 | 3238 |
| 114.6 | 468 | 1.561E-07 | 1.031E-06 | 3240 |
| 115.6 | 1474 | 4.930E-07 | 3.254E-06 | 3241 |
| 116.6 | 805 | 2.687E-07 | 1.773E-06 | 3243 |
| 4 117.6 | 281 | 9.368E-08 | 6.183E-07 | 3245 |
| 4 118.6 | 805 | 2.687E-07 | 1.773E-06 | 3246 |
| 4 119.5 | 1456 | 4.855E-07 | 3.204E-06 | 3248 |
| 120.5 | 2084 | 6.949E-07 | 4.586E-06 | 3249 |
| 121.5 | 2959 | 9.865E-07 | 6.511E-06 | 3251 |
| 122.4 | 4238 | 1.413E-06 | 9.324E-06 | 3252 |
| 123.4 | 963 | 3.210E-07 | 2.119E-06 | 3253 |
| 124.4 | 429 | 1.430E-07 | 9.440E-07 | 3255 |
| 125.4 | 435 | 1.453E-07 | 9.583E-07 | 3256 |
| 126.3 | 3 | 2.030E-10 | 1.340E-09 | 3258 |
| 127.3 | 0 | 1.496E-10 | 9.870E-10 | 3259 |
| 128.3 | 0 | 0. | 0. | 3261 |

CROSSWIND INTEGRATED= 3.145E-04 SEC/SQ.M 2.076E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
5000M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.0 | 0 | 0. | 0. | 4660 |
| 100.0 | 6 | 2.141E-09 | 1.113E-08 | 4690 |
| 102.0 | 2 | 7.137E-10 | 3.711E-09 | 4710 |
| 104.0 | 18 | 6.261E-09 | 3.266E-08 | 4770 |
| 106.0 | 161 | 5.510E-08 | 2.865E-07 | 4810 |
| 108.0 | 165 | 5.638E-08 | 2.932E-07 | 4870 |
| 110.0 | 1458 | 4.974E-07 | 2.587E-06 | 4920 |
| 112.0 | 1783 | 6.085E-07 | 3.164E-06 | 4990 |
| 114.0 | 1440 | 4.915E-07 | 2.556E-06 | 5080 |
| 116.0 | 1210 | 4.131E-07 | 2.148E-06 | 5020 |
| 118.0 | 230 | 7.879E-08 | 4.097E-07 | 5100 |
| E 120.0 | 120 | 4.097E-08 | 2.130E-07 | 5130 |
| 122.0 | 0 | 0. | 0. | 4830 |

CROSSWIND INTEGRATED= 3.927E-04 SEC/SQ.M 2.042E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.0 | 0 | 0. | 0. | 4870 |
| 110.0 | 9 | 1.148E-10 | 7.578E-10 | 4920 |
| 112.0 | 41 | 1.388E-08 | 9.163E-08 | 4990 |
| 114.0 | 182 | 6.085E-08 | 4.016E-07 | 5080 |
| 116.0 | 314 | 1.047E-07 | 6.910E-07 | 5020 |
| 118.0 | 1434 | 4.795E-07 | 3.165E-06 | 5100 |
| E 120.0 | 2300 | 7.667E-07 | 5.060E-06 | 5130 |
| 122.0 | 3509 | 1.170E-06 | 7.720E-06 | 4830 |
| 124.0 | 360 | 1.200E-07 | 7.923E-07 | 4660 |
| 126.0 | 69 | 2.315E-08 | 1.520E-07 | 4770 |
| 0 128.0 | 45 | 1.526E-08 | 1.007E-07 | 4900 |
| 0 130.0 | 1 | 3.862E-10 | 2.549E-09 | 4970 |
| 0 132.0 | 1 | 4.175E-10 | 2.756E-09 | 4980 |
| 9 134.0 | 0 | 1.983E-10 | 1.309E-09 | 4990 |

CROSSWIND INTEGRATED= 4.776E-04 SEC/SQ.M 3.152E-03 1/M

1202036



U83

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
7000M ARC SAMPLER HT 1.5M U= 5.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 6610 |
| 4 104.0 | 1 | 5.710E-10 | 2.969E-09 | 6650 |
| 4 106.0 | 15 | 5.139E-09 | 2.672E-08 | 6720 |
| 5 108.0 | 17 | 6.138E-09 | 3.192E-08 | 6800 |
| 7 110.0 | 399 | 1.362E-07 | 7.081E-07 | 7000 |
| E 112.0 | 1980 | 6.756E-07 | 3.513E-06 | 7300 |
| 4 114.0 | 3629 | 1.238E-06 | 6.440E-06 | 7210 |
| 5 116.0 | 5265 | 1.797E-06 | 9.342E-06 | 7220 |
| 5 118.0 | 4643 | 1.564E-06 | 8.238E-06 | 7190 |
| 5 120.0 | 1092 | 3.727E-07 | 1.938E-06 | 7150 |
| 6 122.0 | 20 | 6.851E-09 | 3.563E-08 | 7120 |
| 124.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 1.465E-03 SEC/SQ.M 7.618E-03 1/M

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 6.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 106.0 | 0 | 1.983E-10 | 1.309E-09 | 6720 |
| 5 108.0 | 0 | 9.394E-11 | 6.200E-10 | 6800 |
| 7 110.0 | 0 | 2.296E-10 | 1.516E-09 | 7000 |
| 8 112.0 | 2 | 7.307E-10 | 4.822E-09 | 7300 |
| 4 114.0 | 21 | 7.307E-09 | 4.822E-08 | 7210 |
| 5 116.0 | 146 | 4.874E-08 | 3.217E-07 | 7220 |
| 5 118.0 | 590 | 1.967E-07 | 1.298E-06 | 7190 |
| 5 120.0 | 2760 | 9.201E-07 | 6.072E-06 | 7150 |
| 6 122.0 | 4837 | 1.612E-06 | 1.064E-05 | 7120 |
| 9 124.0 | 366 | 1.222E-07 | 8.063E-07 | 7100 |
| 8 126.0 | 17 | 5.941E-09 | 3.954E-08 | 7100 |
| 9 128.0 | 34 | 1.163E-08 | 7.675E-08 | 7100 |
| 3 130.0 | 25 | 8.497E-09 | 5.608E-08 | 7130 |
| 8 132.0 | 0 | 0. | 0. | 7150 |
| 7 134.0 | 1 | 3.549E-10 | 2.342E-09 | 7200 |

CROSSWIND INTEGRATED= 7.310E-04 SEC/SQ.M 4.825E-03 1/M

1202037

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ONLY ZNS TRACER WAS DISPERSED. NO TRACER OBSERVED ON 400M OR 600M ARCS. WITH THE EXCEPTION OF THE 12800M ARC, ALL ARCS EXPOSED TO TRACER EMBRACED THE ENTIRE CROSSWIND DISTRIBUTION.

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 75.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 77.0 | 0 | 0. | 0. | 771 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.4 | 0 | 0. | 0. | 1632 |
| 112.4 | 15 | 4.245E-09 | 3.014E-08 | 1635 |
| 113.4 | 54 | 1.528E-08 | 1.085E-07 | 1637 |
| 114.4 | 682 | 1.927E-07 | 1.368E-06 | 1638 |
| 115.3 | 1701 | 4.805E-07 | 3.412E-06 | 1640 |
| 116.3 | 571 | 1.613E-07 | 1.145E-06 | 1641 |
| 117.3 | 775 | 2.190E-07 | 1.555E-06 | 1643 |
| 118.2 | 1100 | 3.107E-07 | 2.206E-06 | 1644 |
| 119.2 | 69 | 1.953E-08 | 1.386E-07 | 1646 |
| 120.2 | 0 | 0. | 0. | 1647 |

CROSSWIND INTEGRATED= 3.854E-05 SEC/SQ.M 2.736E-04 1/M

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 101.8 | 0 | 0. | 0. | 3218 |
| 102.8 | 0 | 0. | 0. | 3220 |
| 103.8 | 22 | 6.451E-09 | 4.580E-08 | 3222 |
| 104.8 | 12 | 3.628E-09 | 2.576E-08 | 3224 |
| 105.8 | 42 | 1.209E-08 | 8.587E-08 | 3225 |
| 106.8 | 19 | 5.644E-09 | 4.007E-08 | 3227 |
| 107.8 | 85 | 2.419E-08 | 1.717E-07 | 3229 |
| X 108.8 | 0 | 0. | 0. | 3230 |
| X 109.7 | 62 | 1.774E-08 | 1.259E-07 | 3232 |
| X 110.7 | 34 | 9.676E-09 | 6.870E-08 | 3233 |
| H 111.7 | 284 | 8.023E-08 | 5.696E-07 | 3235 |
| H 112.7 | 753 | 2.054E-07 | 1.458E-06 | 3237 |
| H 113.7 | 2390 | 6.753E-07 | 4.795E-06 | 3238 |
| H 114.6 | 1642 | 4.640E-07 | 3.295E-06 | 3240 |
| H 115.6 | 2155 | 6.088E-07 | 4.322E-06 | 3241 |
| C 116.6 | 185 | 5.241E-08 | 3.721E-07 | 3243 |
| C 117.6 | 28 | 8.063E-09 | 5.725E-08 | 3245 |
| C 118.6 | 55 | 1.572E-08 | 1.116E-07 | 3246 |
| C 119.5 | 239 | 6.773E-08 | 4.809E-07 | 3248 |
| C 120.5 | 0 | 0. | 0. | 3249 |
| 121.5 | 0 | 0. | 0. | 3251 |
| 122.4 | 91 | 2.580E-08 | 1.832E-07 | 3252 |
| 123.4 | 0 | 0. | 0. | 3253 |

CROSSWIND INTEGRATED= 1.255E-04 SEC/SQ.M 8.914E-04 1/M

1202838



U84

TEST U84 AUGUST 27, 1969 0143 TO 0213 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M AMC SAMPLER HT 1.5M U= 7.1 M/SEC AT 111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 109.0 | 0 | 0. | 0. | 12800 |
| 110.0 | 3 | 1.064E-09 | 7.552E-09 | 12800 |
| 9 111.0 | 0 | 0. | 0. | 12800 |
| 112.0 | 5 | 1.416E-09 | 1.007E-08 | 12800 |
| 9 113.0 | 0 | 0. | 0. | 12800 |
| 5 114.0 | 0 | 0. | 0. | 12800 |
| 9 115.0 | 0 | 0. | 0. | 12800 |
| 116.0 | 0 | 0. | 0. | 12800 |
| 117.0 | 0 | 0. | 0. | 12800 |
| 6 118.0 | 0 | 0. | 0. | 12800 |
| 119.0 | 0 | 0. | 0. | 12800 |
| 120.0 | 2 | 8.273E-10 | 5.874E-09 | 12800 |
| 9 121.0 | 0 | 0. | 0. | 12800 |
| 123.0 | 11 | 3.191E-09 | 2.266E-08 | 12800 |
| E 124.0 | 12 | 3.545E-09 | 2.517E-08 | 12800 |
| 7 125.0 | 110 | 3.108E-08 | 2.207E-07 | 12800 |
| 126.0 | 45 | 1.276E-08 | 9.062E-08 | 12800 |
| 127.0 | 175 | 4.952E-08 | 3.516E-07 | 12800 |
| 128.0 | 581 | 1.642E-07 | 1.166E-06 | 12800 |
| 129.0 | 426 | 1.204E-07 | 8.550E-07 | 12800 |
| 130.0 | 156 | 4.420E-08 | 3.138E-07 | 12800 |
| 131.0 | 2667 | 7.534E-07 | 5.349E-06 | 12800 |
| 132.0 | 5604 | 1.606E-06 | 1.140E-05 | 12800 |
| 133.0 | 1396 | 3.944E-07 | 2.800E-06 | 12800 |
| 134.0 | 576 | 1.629E-07 | 1.156E-06 | 12800 |
| 135.0 | 210 | 5.945E-08 | 4.221E-07 | 12800 |
| 136.0 | 129 | 3.652E-08 | 2.593E-07 | 12800 |
| 137.0 | 299 | 8.474E-08 | 6.016E-07 | 12800 |
| E 138.0 | 249 | 7.056E-08 | 5.009E-07 | 12800 |
| E 139.0 | 194 | 5.507E-08 | 3.910E-07 | 12800 |
| 7 140.0 | 168 | 4.751E-08 | 3.373E-07 | 12800 |
| 141.0 | 324 | 9.159E-08 | 6.503E-07 | 12800 |
| 6 142.0 | 125 | 3.557E-08 | 2.526E-07 | 12800 |
| 143.0 | 266 | 7.528E-08 | 5.345E-07 | 12800 |
| E 144.0 | 216 | 6.122E-08 | 4.347E-07 | 12800 |
| E 145.0 | 150 | 4.255E-08 | 3.021E-07 | 12800 |
| 146.0 | 122 | 3.463E-08 | 2.459E-07 | 12800 |
| E 147.0 | 116 | 3.297E-08 | 2.341E-07 | 12800 |
| 148.0 | 127 | 3.593E-08 | 2.551E-07 | 12800 |
| 7 149.0 | 44 | 1.253E-08 | 8.894E-08 | 12800 |
| 150.0 | 239 | 6.760E-08 | 4.800E-07 | 12800 |
| 6 151.0 | 305 | 8.639E-08 | 6.134E-07 | 12800 |

CROSSWIND INTEGRATED= 9.563E-04 SEC/SQ.M 6.789E-03 1/M

1202839



U84

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| W 104.0 | 0 | 0. | 0. | 4770 |
| W 106.0 | 15 | 4.491E-09 | 3.189E-08 | 4810 |
| 108.0 | 28 | 8.155E-09 | 5.790E-08 | 4970 |
| C 110.0 | 144 | 4.089E-08 | 2.903E-07 | 4920 |
| E 112.0 | 260 | 7.363E-08 | 5.228E-07 | 4990 |
| C 114.0 | 355 | 1.003E-07 | 7.124E-07 | 5080 |
| 116.0 | 47 | 1.335E-08 | 9.482E-08 | 5020 |
| 118.0 | 120 | 3.392E-08 | 2.408E-07 | 5100 |
| 120.0 | 67 | 1.903E-08 | 1.351E-07 | 5130 |
| E 122.0 | 89 | 2.517E-08 | 1.787E-07 | 4930 |
| 124.0 | 133 | 3.770E-08 | 2.677E-07 | 4660 |
| 126.0 | 46 | 1.312E-08 | 9.314E-08 | 4770 |
| 128.0 | 0 | 0. | 0. | 4900 |

CROSSWIND INTEGRATED= 6.413E-05 SEC/SQ.M 4.553E-04 1/M

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 7.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| S 98.0 | 0 | 0. | 0. | 6520 |
| 100.0 | 10 | 2.955E-09 | 2.098E-08 | 6560 |
| E 102.0 | 9 | 2.600E-09 | 1.846E-08 | 6610 |
| 104.0 | 8 | 2.364E-09 | 1.676E-08 | 6650 |
| 106.0 | 0 | 0. | 0. | 6720 |
| 108.0 | 9 | 2.600E-09 | 1.846E-08 | 6900 |
| 110.0 | 1 | 4.727E-10 | 3.356E-09 | 7000 |
| E 112.0 | 10 | 2.836E-09 | 2.014E-08 | 7300 |
| 114.0 | 17 | 5.082E-09 | 3.608E-08 | 7210 |
| 116.0 | 98 | 2.789E-08 | 1.980E-07 | 7220 |
| 118.0 | 40 | 1.135E-08 | 8.055E-08 | 7190 |
| 120.0 | 509 | 1.439E-07 | 1.022E-06 | 7150 |
| P 122.0 | 58 | 1.655E-08 | 1.175E-07 | 7120 |
| P 124.0 | 12 | 3.427E-09 | 2.433E-08 | 7100 |
| 126.0 | 0 | 0. | 0. | 7100 |
| O 128.0 | 21 | 6.027E-09 | 4.279E-08 | 7100 |
| 6 130.0 | 0 | 0. | 0. | 7130 |
| P 132.0 | 0 | 2.364E-10 | 1.678E-09 | 7150 |
| 134.0 | 4 | 1.182E-09 | 8.391E-09 | 7200 |
| O 136.0 | 0 | 0. | 0. | 7250 |

CROSSWIND INTEGRATED= 5.717E-05 SEC/SQ.M. 4.059E-04 1/M

1202040



U8

SAMPLING 400M TO 12000M: NO TOWER SAMPLING.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. NO ZNS TRACER OBSERVED ON 400M ARC.
SPORADIC FLUORESCEIN DISPERSAL DURING FIRST 10 MIN OF TEST; OK DURING LAST 20 MIN.

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 78.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 0. | 0. | 400 |
| 90.0 | 0 | 0. | 0. | 400 |
| 94.0 | 16 | 9.396E-09 | 7.705E-08 | 400 |
| 98.0 | 77 | 4.391E-08 | 3.601E-07 | 400 |
| 102.0 | 2654 | 1.508E-06 | 1.237E-05 | 400 |
| 106.0 | 509 | 2.893E-07 | 2.372E-06 | 400 |
| 110.0 | 1042 | 5.923E-07 | 4.857E-06 | 400 |
| 114.0 | 815 | 4.634E-07 | 3.800E-06 | 400 |
| 118.0 | 225 | 1.280E-07 | 1.050E-06 | 400 |
| 122.0 | 29 | 1.689E-08 | 1.385E-07 | 400 |
| 126.0 | 0 | 0. | 0. | 400 |
| 130.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 8.520E-05 SEC/SQ.M 6.987E-04 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| X 99.1 | 0 | 0. | 0. | 809 |
| X 101.1 | 104 | 2.995E-08 | 2.506E-07 | 813 |
| X 103.0 | 67 | 1.897E-08 | 1.640E-07 | 816 |
| X 105.0 | 265 | 7.488E-08 | 7.264E-07 | 820 |
| X 106.9 | 236 | 6.690E-08 | 6.489E-07 | 823 |
| 108.8 | 84 | 2.396E-08 | 2.324E-07 | 826 |
| 110.7 | 233 | 6.590E-08 | 6.392E-07 | 829 |
| 112.6 | 151 | 4.293E-08 | 4.165E-07 | 833 |
| 114.5 | 35 | 9.985E-09 | 9.685E-08 | 836 |
| 116.4 | 28 | 7.988E-09 | 7.748E-08 | 839 |
| 118.3 | 14 | 3.994E-09 | 3.874E-08 | 842 |
| 120.2 | 0 | 0. | 0. | 845 |

CROSSWIND INTEGRATED= 9.556E-06 SEC/SQ.M 9.250E-05 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 97.1 | 15 | 8.710E-09 | 7.142E-08 | 806 |
| 99.1 | 243 | 1.383E-07 | 1.134E-06 | 809 |
| 101.1 | 458 | 2.604E-07 | 2.136E-06 | 813 |
| 103.0 | 608 | 3.459E-07 | 2.837E-06 | 816 |
| 105.0 | 576 | 3.276E-07 | 2.686E-06 | 820 |
| 106.9 | 36 | 2.051E-08 | 1.682E-07 | 823 |
| 108.8 | 4885 | 2.776E-06 | 2.276E-05 | 826 |
| 110.7 | 4358 | 2.477E-06 | 2.031E-05 | 829 |
| 112.6 | 4283 | 2.434E-06 | 1.996E-05 | 833 |
| 114.5 | 2553 | 1.451E-06 | 1.190E-05 | 836 |
| 116.4 | 963 | 5.474E-07 | 4.489E-06 | 839 |
| 118.3 | 426 | 2.421E-07 | 1.985E-06 | 842 |
| 120.2 | 24 | 1.380E-08 | 1.131E-07 | 845 |
| 122.1 | 107 | 6.101E-08 | 5.003E-07 | 848 |
| 124.0 | 0 | 0. | 0. | 851 |

CROSSWIND INTEGRATED= 3.063E-04 SEC/SQ.M 2.512E-03 1/M

1202041



U85

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.6 | 0 | 0. | 0. | 1508 |
| 97.6 | 0 | 0. | 0. | 1510 |
| 98.6 | 136 | 3.854E-08 | 3.739E-07 | 1611 |
| 99.6 | 414 | 1.171E-07 | 1.136E-06 | 1613 |
| 100.6 | 2341 | 6.613E-07 | 6.415E-06 | 1615 |
| 101.6 | 1591 | 4.497E-07 | 4.362E-06 | 1617 |
| 102.6 | 1099 | 3.106E-07 | 3.013E-06 | 1618 |
| 103.6 | 1672 | 4.724E-07 | 4.582E-06 | 1620 |
| 104.5 | 1605 | 4.535E-07 | 4.399E-06 | 1622 |
| 105.5 | 1642 | 4.640E-07 | 4.501E-06 | 1623 |
| 106.5 | 3670 | 1.037E-06 | 1.006E-05 | 1625 |
| 107.5 | 1937 | 5.472E-07 | 5.308E-06 | 1627 |
| 108.5 | 1912 | 5.404E-07 | 5.242E-06 | 1628 |
| 109.5 | 1731 | 4.890E-07 | 4.743E-06 | 1630 |
| 110.4 | 765 | 2.162E-07 | 2.097E-06 | 1632 |
| 111.4 | 1145 | 3.235E-07 | 3.138E-06 | 1633 |
| 112.4 | 1094 | 3.091E-07 | 2.998E-06 | 1635 |
| 113.4 | 671 | 1.897E-07 | 1.840E-06 | 1637 |
| 114.4 | 1169 | 3.303E-07 | 3.204E-06 | 1638 |
| 115.3 | 949 | 2.683E-07 | 2.603E-06 | 1640 |
| 116.3 | 767 | 2.169E-07 | 2.104E-06 | 1641 |
| 117.3 | 1241 | 3.507E-07 | 3.402E-06 | 1643 |
| 118.2 | 48 | 1.360E-08 | 1.320E-07 | 1644 |
| 119.2 | 0 | 0. | 0. | 1646 |

CROSSWIND INTEGRATED= 2.177E-04 SEC/SQ.M 2.112E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| Z 94.6 | 14 | 8.455E-09 | 6.933E-08 | 1604 |
| 95.6 | 315 | 1.792E-07 | 1.469E-06 | 1606 |
| 96.6 | 149 | 8.522E-08 | 6.988E-07 | 1608 |
| 97.6 | 1649 | 9.374E-07 | 7.687E-06 | 1610 |
| 98.6 | 1930 | 1.097E-06 | 8.997E-06 | 1611 |
| 99.6 | 5353 | 3.042E-06 | 2.494E-05 | 1613 |
| 100.6 | 2526 | 1.435E-06 | 1.177E-05 | 1615 |
| 101.6 | 6246 | 3.549E-06 | 2.910E-05 | 1617 |
| 102.6 | 8478 | 4.817E-06 | 3.950E-05 | 1618 |
| 103.6 | 7734 | 4.395E-06 | 3.604E-05 | 1620 |
| 104.5 | 5800 | 3.295E-06 | 2.702E-05 | 1622 |
| 105.5 | 4758 | 2.704E-06 | 2.217E-05 | 1623 |
| 106.5 | 7883 | 4.479E-06 | 3.673E-05 | 1625 |
| 107.5 | 5056 | 2.873E-06 | 2.356E-05 | 1627 |
| 108.5 | 4907 | 2.788E-06 | 2.286E-05 | 1628 |
| 109.5 | 6544 | 3.718E-06 | 3.049E-05 | 1630 |
| 110.4 | 3716 | 2.112E-06 | 1.732E-05 | 1632 |
| 111.4 | 7139 | 4.056E-06 | 3.326E-05 | 1633 |
| 112.4 | 2476 | 1.407E-06 | 1.154E-05 | 1635 |
| 113.4 | 2526 | 1.435E-06 | 1.177E-05 | 1637 |
| 114.4 | 2923 | 1.661E-06 | 1.362E-05 | 1638 |
| 115.3 | 2675 | 1.520E-06 | 1.246E-05 | 1640 |
| 116.3 | 1286 | 7.308E-07 | 5.992E-06 | 1641 |
| 117.3 | 386 | 2.194E-07 | 1.799E-06 | 1643 |
| 118.2 | 286 | 1.631E-07 | 1.337E-06 | 1644 |
| 119.2 | 138 | 7.851E-08 | 6.436E-07 | 1646 |
| 120.2 | 69 | 3.959E-08 | 3.247E-07 | 1647 |
| 121.2 | 0 | 0. | 0. | 1649 |

CROSSWIND INTEGRATED= 1.474E-03 SEC/SQ.M 1.209E-02 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| W 97.8 | 0 | 0. | 0. | 3212 |
| 98.8 | 33 | 9.594E-09 | 9.311E-08 | 3213 |
| 99.8 | 58 | 1.651E-08 | 1.602E-07 | 3215 |
| 100.8 | 330 | 9.330E-08 | 9.050E-07 | 3217 |
| 101.8 | 887 | 2.507E-07 | 2.432E-06 | 3218 |
| 102.8 | 1367 | 3.920E-07 | 3.803E-06 | 3220 |
| 103.8 | 1315 | 3.717E-07 | 3.605E-06 | 3222 |
| 104.8 | 1279 | 3.613E-07 | 3.505E-06 | 3224 |
| 105.8 | 2029 | 5.731E-07 | 5.561E-06 | 3225 |
| 106.8 | 2866 | 8.094E-07 | 7.855E-06 | 3227 |
| 107.8 | 2264 | 6.397E-07 | 6.205E-06 | 3229 |
| Z 108.8 | 2048 | 5.786E-07 | 5.613E-06 | 3230 |
| Z 109.7 | 2290 | 6.470E-07 | 6.276E-06 | 3232 |
| Z 110.7 | 1995 | 5.637E-07 | 5.467E-06 | 3233 |
| 111.7 | 2223 | 6.282E-07 | 6.093E-06 | 3235 |
| 112.7 | 1868 | 5.279E-07 | 5.121E-06 | 3237 |
| 113.7 | 1548 | 4.488E-07 | 4.354E-06 | 3238 |
| 114.6 | 970 | 2.741E-07 | 2.659E-06 | 3240 |
| 115.6 | 150 | 4.262E-08 | 4.134E-07 | 3241 |
| 116.6 | 58 | 1.651E-08 | 1.602E-07 | 3243 |
| 117.6 | 2 | 7.679E-10 | 7.449E-09 | 3245 |
| 118.6 | 0 | 0. | 0. | 3246 |

CROSSWIND INTEGRATED= 4.029E-04 SEC/SQ.M 3.909E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| Z 96.8 | 5 | 3.217E-09 | 2.638E-08 | 3210 |
| Z 97.8 | 0 | 0. | 0. | 3212 |
| Z 98.8 | 45 | 2.585E-08 | 2.115E-07 | 3213 |
| 99.8 | 193 | 1.109E-07 | 9.033E-07 | 3215 |
| 100.8 | 1052 | 5.961E-07 | 4.905E-06 | 3217 |
| 101.8 | 1815 | 1.032E-06 | 8.450E-06 | 3218 |
| 102.8 | 2690 | 1.529E-06 | 1.253E-05 | 3220 |
| 103.8 | 2959 | 1.682E-06 | 1.379E-05 | 3222 |
| 104.8 | 3296 | 1.873E-06 | 1.536E-05 | 3224 |
| 105.8 | 2151 | 1.223E-06 | 1.003E-05 | 3225 |
| 106.8 | 2353 | 1.337E-06 | 1.097E-05 | 3227 |
| 107.8 | 2824 | 1.605E-06 | 1.316E-05 | 3229 |
| Z 108.8 | 2624 | 1.605E-06 | 1.316E-05 | 3230 |
| Z 109.7 | 2892 | 1.643E-06 | 1.346E-05 | 3232 |
| Z 110.7 | 2959 | 1.682E-06 | 1.379E-05 | 3233 |
| 111.7 | 2555 | 1.452E-06 | 1.191E-05 | 3235 |
| 112.7 | 2486 | 1.414E-06 | 1.159E-05 | 3237 |
| 113.7 | 1501 | 8.531E-07 | 6.995E-06 | 3238 |
| 114.6 | 581 | 3.305E-07 | 2.710E-06 | 3240 |
| 115.6 | 213 | 1.211E-07 | 9.929E-07 | 3241 |
| 116.6 | 57 | 3.247E-08 | 2.663E-07 | 3243 |
| 117.6 | 0 | 3.642E-11 | 2.986E-10 | 3245 |
| 118.6 | 0 | 0. | 0. | 3246 |

CROSSWIND INTEGRATED= 1.123E-03 SEC/SQ.M 9.207E-03 1/M

1202842



U85

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 0. | 0. | 4690 |
| 102.0 | 0 | 2.364E-10 | 2.293E-09 | 4710 |
| 104.0 | 115 | 3.250E-08 | 3.153E-07 | 4770 |
| W 106.0 | 1536 | 4.341E-07 | 4.211E-06 | 4810 |
| E 108.0 | 2091 | 5.907E-07 | 5.730E-06 | 4870 |
| 110.0 | 1424 | 4.025E-07 | 3.905E-06 | 4920 |
| 112.0 | 527 | 1.491E-07 | 1.447E-06 | 4990 |
| 114.0 | 434 | 1.228E-07 | 1.191E-06 | 5080 |
| 116.0 | 261 | 7.375E-08 | 7.153E-07 | 5020 |
| 118.0 | 7 | 2.009E-09 | 1.949E-08 | 5100 |
| 120.0 | 0 | 0. | 0. | 5130 |

CROSSWIND INTEGRATED= 3.089E-04 SEC/SQ.M 2.996E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 6510 |
| 0 104.0 | 0 | 2.364E-10 | 2.293E-09 | 6650 |
| 106.0 | 98 | 2.769E-08 | 2.705E-07 | 6720 |
| 108.0 | 108 | 3.073E-08 | 2.981E-07 | 6800 |
| E 110.0 | 82 | 2.340E-08 | 2.270E-07 | 7000 |
| 112.0 | 57 | 1.619E-08 | 1.571E-07 | 7300 |
| E 114.0 | 50 | 1.418E-08 | 1.376E-07 | 7210 |
| E 116.0 | 43 | 1.217E-08 | 1.181E-07 | 7220 |
| 118.0 | 36 | 1.028E-08 | 9.973E-08 | 7190 |
| 120.0 | 0 | 0. | 0. | 7150 |
| 122.0 | 20 | 5.673E-09 | 5.503E-08 | 7120 |
| 0 124.0 | 0 | 2.364E-10 | 2.293E-09 | 7100 |
| S 126.0 | 0 | 0. | 0. | 7100 |
| 128.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 3.442E-05 SEC/SQ.M 3.339E-04 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 9.7 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 109.0 | 0 | 0. | 0. | 12800 |
| 110.0 | 19 | 5.555E-09 | 5.388E-08 | 12800 |
| 111.0 | 101 | 2.872E-08 | 2.786E-07 | 12800 |
| 112.0 | 220 | 6.216E-08 | 6.030E-07 | 12800 |
| 113.0 | 140 | 3.675E-08 | 3.565E-07 | 12800 |
| 7 114.0 | 112 | 3.179E-08 | 3.084E-07 | 12800 |
| 115.0 | 149 | 4.164E-08 | 4.038E-07 | 12800 |
| 116.0 | 252 | 7.138E-08 | 6.924E-07 | 12800 |
| 117.0 | 155 | 4.385E-08 | 4.253E-07 | 12800 |
| W 118.0 | 111 | 3.155E-08 | 3.061E-07 | 12800 |
| 119.0 | 4 | 1.162E-09 | 1.126E-08 | 12800 |
| 120.0 | 2 | 8.273E-10 | 8.025E-09 | 12800 |
| 121.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 7.944E-05 SEC/SQ.M 7.706E-04 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 0. | 0. | 4620 |
| 98.0 | 0 | 2.847E-10 | 2.334E-09 | 4660 |
| 100.0 | 2 | 1.228E-09 | 1.007E-08 | 4690 |
| 102.0 | 44 | 2.525E-08 | 2.070E-07 | 4710 |
| 104.0 | 168 | 9.586E-08 | 7.861E-07 | 4770 |
| W 106.0 | 2103 | 1.195E-06 | 9.800E-06 | 4810 |
| E 108.0 | 3313 | 1.883E-06 | 1.544E-05 | 4870 |
| 110.0 | 2300 | 1.307E-06 | 1.072E-05 | 4920 |
| 112.0 | 1478 | 8.401E-07 | 6.889E-06 | 4990 |
| 114.0 | 1360 | 7.729E-07 | 6.336E-06 | 5080 |
| 116.0 | 301 | 1.713E-07 | 1.405E-06 | 5020 |
| 118.0 | 27 | 1.548E-08 | 1.269E-07 | 5100 |
| 120.0 | 2 | 1.174E-09 | 9.629E-09 | 5130 |
| 122.0 | 0 | 7.117E-11 | 5.836E-10 | 4830 |

CROSSWIND INTEGRATED= 1.082E-03 SEC/SQ.M 8.872E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 1 | 9.074E-10 | 7.441E-09 | 6560 |
| 102.0 | 0 | 0. | 0. | 6610 |
| F 104.0 | 5 | 3.203E-09 | 2.626E-08 | 6650 |
| 106.0 | 255 | 1.452E-07 | 1.191E-06 | 6720 |
| 108.0 | 413 | 2.349E-07 | 1.926E-06 | 6800 |
| E 110.0 | 590 | 3.357E-07 | 2.753E-06 | 7000 |
| 4 112.0 | 367 | 2.087E-07 | 1.711E-06 | 7300 |
| E 114.0 | 301 | 1.713E-07 | 1.405E-06 | 7210 |
| E 116.0 | 110 | 6.298E-08 | 5.165E-07 | 7220 |
| 118.0 | 60 | 3.421E-08 | 2.806E-07 | 7190 |
| 120.0 | 1 | 6.939E-10 | 5.690E-09 | 7150 |
| 122.0 | 1 | 6.761E-10 | 5.544E-09 | 7120 |
| E 124.0 | 0 | 1.068E-10 | 8.754E-10 | 7100 |
| S 126.0 | 2 | 1.601E-09 | 1.313E-08 | 7100 |
| 128.0 | 0 | 1.779E-10 | 1.459E-09 | 7100 |
| 130.0 | 0 | 1.423E-10 | 1.167E-09 | 7130 |

CROSSWIND INTEGRATED= 2.944E-04 SEC/SQ.M 2.414E-03 1/M

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 8.2 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 107.0 | 0 | 1.779E-11 | 1.459E-10 | 12800 |
| 7 108.0 | 8 | 4.864E-09 | 3.939E-08 | 12800 |
| 109.0 | 7 | 4.270E-09 | 3.502E-08 | 12800 |
| 110.0 | 39 | 2.242E-08 | 1.838E-07 | 12800 |
| 111.0 | 114 | 6.708E-08 | 5.500E-07 | 12800 |
| 112.0 | 492 | 2.797E-07 | 2.293E-06 | 12800 |
| 113.0 | 275 | 1.564E-07 | 1.282E-06 | 12800 |
| 7 114.0 | 518 | 2.946E-07 | 2.416E-06 | 12800 |
| 4 115.0 | 380 | 2.162E-07 | 1.773E-06 | 12800 |
| 116.0 | 367 | 2.087E-07 | 1.711E-06 | 12800 |
| 117.0 | 143 | 8.129E-08 | 6.666E-07 | 12800 |
| W 118.0 | 86 | 4.928E-08 | 4.041E-07 | 12800 |
| 4 119.0 | 7 | 4.448E-09 | 3.647E-08 | 12800 |
| 120.0 | 3 | 2.135E-09 | 1.751E-08 | 12800 |
| 4 121.0 | 0 | 2.669E-10 | 2.188E-09 | 12800 |
| 122.0 | 0 | 2.847E-10 | 2.334E-09 | 12800 |
| 123.0 | 0 | 1.068E-10 | 8.754E-10 | 12800 |

CROSSWIND INTEGRATED= 3.110E-04 SEC/SQ.M 2.550E-03 1/M

1202843



U85

SAMPLING 400M TO 12000M: NO TOWER SAMPLING. POSSIBLE CONTAMINATION OF ZNS ON NORTH END OF 7000M ARC.
ARCS GENERALLY EMBRACE CROSSWIND EXTENT OF TRACER. NO ZNS OBSERVED ON 400M OR 800M ARCS.
POSSIBLE FLUORESCEIN CONTAMINATION ON 400 AND 800M ARCS.

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 78.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 62.0 | 0 | 0. | 0. | 400 |
| 66.0 | 29 | 1.395E-08 | 6.838E-08 | 400 |
| 70.0 | 0 | 0. | 0. | 400 |
| 74.0 | 2 | 1.218E-09 | 5.966E-09 | 400 |
| 78.0 | 0 | 0. | 0. | 400 |
| 1 82.0 | 6 | 3.197E-09 | 1.566E-08 | 400 |
| 86.0 | 72 | 3.425E-08 | 1.678E-07 | 400 |
| 90.0 | 0 | 0. | 0. | 400 |
| 94.0 | 5157 | 2.421E-06 | 1.186E-05 | 400 |
| 98.0 | 4476 | 2.102E-06 | 1.030E-05 | 400 |
| 102.0 | 0 | 0. | 0. | 400 |
| 106.0 | 0 | 0. | 0. | 400 |
| 110.0 | 124 | 5.861E-08 | 2.872E-07 | 400 |
| 4 114.0 | 166 | 7.840E-08 | 3.842E-07 | 400 |
| 118.0 | 349 | 1.642E-07 | 8.044E-07 | 400 |
| 122.0 | 36 | 1.700E-08 | 8.330E-08 | 400 |
| Z 126.0 | 17 | 8.373E-09 | 4.103E-08 | 400 |
| Z 130.0 | 0 | 0. | 0. | 400 |
| Z 134.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.369E-04 SEC/SQ.M 6.708E-04 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 77.0 | 0 | 0. | 0. | 771 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 85.2 | 0 | 0. | 0. | 785 |
| 95.2 | 0 | 0. | 0. | 802 |
| 97.1 | 8560 | 4.019E-06 | 1.969E-05 | 806 |
| 99.1 | 5981 | 2.808E-06 | 1.376E-05 | 809 |
| 101.1 | 5551 | 2.606E-06 | 1.277E-05 | 813 |
| 103.0 | 673 | 3.161E-07 | 1.549E-06 | 816 |
| 105.0 | 967 | 4.540E-07 | 2.225E-06 | 820 |
| 106.9 | 128 | 6.054E-08 | 2.966E-07 | 823 |
| 108.8 | 0 | 0. | 0. | 826 |
| 110.7 | 0 | 0. | 0. | 829 |
| 112.6 | 0 | 0. | 0. | 833 |
| 114.5 | 383 | 1.799E-07 | 8.816E-07 | 836 |
| 116.4 | 12 | 5.665E-09 | 2.884E-08 | 839 |
| 118.3 | 0 | 0. | 0. | 842 |
| 120.2 | 100 | 4.708E-08 | 2.307E-07 | 845 |
| 122.1 | 0 | 0. | 0. | 848 |
| 124.0 | 161 | 7.567E-08 | 3.708E-07 | 851 |
| 125.8 | 0 | 0. | 0. | 854 |
| 127.7 | 0 | 0. | 0. | 857 |
| 129.5 | 0 | 0. | 0. | 859 |
| 131.4 | 39 | 1.850E-08 | 9.064E-08 | 862 |
| 133.2 | 0 | 0. | 0. | 865 |

CROSSWIND INTEGRATED= 2.938E-04 SEC/SQ.M 1.440E-03 1/M

1202044



U8

TEST U86 AUGUST 29, 1969 0056 TO 0125 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.5 | 0 | 0. | 0. | 1622 |
| 105.5 | 72 | 3.408E-08 | 2.113E-07 | 1623 |
| 106.5 | 66 | 3.111E-08 | 1.929E-07 | 1625 |
| 107.5 | 44 | 2.074E-08 | 1.286E-07 | 1627 |
| Z 108.5 | 0 | 0. | 0. | 1628 |
| 109.5 | 12 | 5.926E-09 | 3.674E-08 | 1630 |
| 110.4 | 28 | 1.333E-08 | 8.267E-08 | 1632 |
| 111.4 | 0 | 0. | 0. | 1633 |
| Z 112.4 | 0 | 0. | 0. | 1635 |
| 113.4 | 6 | 2.963E-09 | 1.837E-08 | 1637 |
| 114.4 | 69 | 3.268E-08 | 2.026E-07 | 1638 |
| 115.3 | 0 | 0. | 0. | 1640 |

CROSSWIND INTEGRATED= 3.926E-06 SEC/SQ.M 2.435E-05 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 75.5 | 0 | 0. | 0. | 1572 |
| E 76.5 | 0 | 2.210E-10 | 1.087E-09 | 1573 |
| E 77.5 | 1 | 7.763E-10 | 3.804E-09 | 1575 |
| P 78.5 | 82 | 3.861E-08 | 1.902E-07 | 1577 |
| 79.5 | 49 | 2.329E-08 | 1.141E-07 | 1578 |
| 80.5 | 1 | 6.654E-10 | 3.260E-09 | 1580 |
| 81.5 | 283 | 1.331E-07 | 6.521E-07 | 1582 |
| C 82.6 | 325 | 1.530E-07 | 7.494E-07 | 1584 |
| 83.6 | 389 | 1.830E-07 | 8.966E-07 | 1585 |
| 84.6 | 673 | 3.161E-07 | 1.549E-06 | 1587 |
| 85.6 | 507 | 2.384E-07 | 1.168E-06 | 1589 |
| 86.6 | 767 | 3.604E-07 | 1.766E-06 | 1590 |
| 87.6 | 862 | 4.048E-07 | 1.983E-06 | 1592 |
| 89.6 | 2940 | 1.381E-06 | 6.765E-06 | 1594 |
| 89.6 | 1899 | 8.916E-07 | 4.369E-06 | 1596 |
| 90.6 | 3684 | 1.730E-06 | 8.477E-06 | 1597 |
| 91.6 | 4280 | 2.009E-06 | 9.846E-06 | 1599 |
| 92.6 | 4726 | 2.219E-06 | 1.087E-05 | 1601 |
| 93.6 | 5619 | 2.636E-06 | 1.293E-05 | 1603 |
| 94.6 | 7405 | 3.477E-06 | 1.704E-05 | 1604 |
| 95.6 | 7702 | 3.616E-06 | 1.772E-05 | 1606 |
| 96.6 | 8744 | 4.105E-06 | 2.012E-05 | 1608 |
| 97.6 | 8000 | 3.756E-06 | 1.840E-05 | 1610 |
| 98.6 | 11869 | 5.572E-06 | 2.731E-05 | 1611 |
| 99.6 | 9190 | 4.315E-06 | 2.114E-05 | 1613 |
| 100.6 | 5321 | 2.498E-06 | 1.224E-05 | 1615 |
| 101.6 | 1799 | 8.450E-07 | 4.141E-06 | 1617 |
| 102.6 | 6363 | 2.988E-06 | 1.464E-05 | 1618 |
| 103.6 | 3139 | 1.474E-06 | 7.222E-06 | 1620 |
| 104.5 | 1155 | 5.423E-07 | 2.657E-06 | 1622 |
| 105.5 | 455 | 2.139E-07 | 1.048E-06 | 1623 |
| 106.5 | 1065 | 5.004E-07 | 2.452E-06 | 1625 |
| 107.5 | 1403 | 6.587E-07 | 3.228E-06 | 1627 |
| 108.5 | 1551 | 7.286E-07 | 3.570E-06 | 1628 |
| 109.5 | 4 | 2.229E-09 | 1.092E-08 | 1630 |
| 110.4 | 887 | 4.165E-07 | 2.041E-06 | 1632 |
| 111.4 | 902 | 4.235E-07 | 2.075E-06 | 1633 |
| 112.4 | 9 | 4.325E-09 | 2.119E-08 | 1635 |
| 113.4 | 16 | 7.818E-09 | 3.831E-08 | 1637 |
| 114.4 | 24 | 1.131E-08 | 5.543E-08 | 1638 |
| 115.3 | 123 | 5.789E-08 | 2.836E-07 | 1640 |
| 116.3 | 167 | 7.885E-08 | 3.863E-07 | 1641 |
| 117.3 | 197 | 9.282E-08 | 4.548E-07 | 1643 |
| R 122.1 | 413 | 1.941E-07 | 9.509E-07 | 1650 |

CROSSWIND INTEGRATED= 1.397E-03 SEC/SQ.M 6.845E-03 1/M

1202845



U86

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 81.8 | 23 | 1.103E-08 | 5.406E-08 | 3184 |
| 82.8 | 22 | 1.053E-08 | 5.161E-08 | 3185 |
| 83.8 | 41 | 1.956E-08 | 9.584E-08 | 3187 |
| 84.8 | 131 | 6.169E-08 | 3.083E-07 | 3189 |
| 85.8 | 51 | 2.407E-08 | 1.180E-07 | 3191 |
| 86.8 | 163 | 7.673E-08 | 3.760E-07 | 3192 |
| 87.8 | 118 | 5.567E-08 | 2.728E-07 | 3194 |
| 88.8 | 224 | 1.053E-07 | 5.161E-07 | 3196 |
| 89.8 | 635 | 2.984E-07 | 1.462E-06 | 3198 |
| 90.8 | 528 | 2.482E-07 | 1.216E-06 | 3199 |
| 91.8 | 870 | 4.087E-07 | 2.003E-06 | 3201 |
| 92.8 | 806 | 3.786E-07 | 1.855E-06 | 3203 |
| 93.8 | 1285 | 6.033E-07 | 2.956E-06 | 3205 |
| 94.8 | 1576 | 7.402E-07 | 3.627E-06 | 3206 |
| 95.8 | 2272 | 1.067E-06 | 5.227E-06 | 3208 |
| 96.8 | 3012 | 1.414E-06 | 6.930E-06 | 3210 |
| 97.8 | 3348 | 1.572E-06 | 7.704E-06 | 3212 |
| 98.8 | 5031 | 2.362E-06 | 1.157E-05 | 3213 |
| 99.8 | 5300 | 2.489E-06 | 1.219E-05 | 3215 |
| 100.8 | 4425 | 2.078E-06 | 1.018E-05 | 3217 |
| 101.8 | 6265 | 2.941E-06 | 1.441E-05 | 3218 |
| 102.8 | 4470 | 2.099E-06 | 1.028E-05 | 3220 |
| 103.8 | 4358 | 2.046E-06 | 1.003E-05 | 3222 |
| 104.8 | 3550 | 1.667E-06 | 8.168E-06 | 3224 |
| 105.8 | 3214 | 1.509E-06 | 7.394E-06 | 3225 |
| 106.8 | 1666 | 7.824E-07 | 3.834E-06 | 3227 |
| 107.8 | 2070 | 9.719E-07 | 4.762E-06 | 3229 |
| 108.8 | 2743 | 1.288E-06 | 6.311E-06 | 3230 |
| 109.7 | 1935 | 9.087E-07 | 4.453E-06 | 3232 |
| 110.7 | 1150 | 5.401E-07 | 2.647E-06 | 3233 |
| 111.7 | 924 | 4.338E-07 | 2.126E-06 | 3235 |
| 112.7 | 8 | 4.012E-09 | 1.966E-08 | 3237 |
| 113.7 | 0 | 0. | 0. | 3238 |
| 114.6 | 0 | 0. | 0. | 3240 |

CROSSWIND INTEGRATED= 1.635E-03 SEC/SQ.M 8.009E-03 1/M

TEST U66 AUGUST 29, 1969 0056 TO 0126 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 99.8 | 0 | 0. | 0. | 3215 |
| 100.8 | 0 | 0. | 0. | 3217 |
| 101.8 | 12 | 6.030E-09 | 3.739E-08 | 3218 |
| 102.8 | 57 | 2.680E-08 | 1.662E-07 | 3220 |
| 103.8 | 46 | 2.274E-08 | 1.412E-07 | 3222 |
| 104.8 | 32 | 1.541E-08 | 9.555E-08 | 3224 |
| 105.8 | 58 | 2.747E-08 | 1.703E-07 | 3225 |
| 106.8 | 92 | 3.966E-08 | 2.459E-07 | 3227 |
| 107.8 | 309 | 1.494E-07 | 9.615E-07 | 3229 |
| 108.8 | 325 | 1.526E-07 | 9.472E-07 | 3230 |
| 109.7 | 62 | 2.948E-08 | 1.828E-07 | 3232 |
| 110.7 | 361 | 1.695E-07 | 1.051E-06 | 3234 |
| 111.7 | 1144 | 5.376E-07 | 3.332E-06 | 3235 |
| 112.7 | 45 | 2.144E-08 | 1.329E-07 | 3237 |
| 113.7 | 412 | 1.936E-07 | 1.201E-06 | 3238 |
| 114.6 | 0 | 0. | 0. | 3240 |

CROSSWIND INTEGRATED= 7.720E-05 SEC/SQ.M 4.766E-04 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.0 | 10 | 4.704E-09 | 2.305E-08 | 4610 |
| 90.0 | 24 | 1.147E-08 | 5.619E-08 | 4610 |
| 92.0 | 95 | 4.484E-09 | 2.197E-07 | 4620 |
| 94.0 | 248 | 1.169E-07 | 5.727E-07 | 4620 |
| C 96.0 | 666 | 3.127E-07 | 1.532E-06 | 4620 |
| 98.0 | 666 | 3.127E-07 | 1.532E-06 | 4660 |
| W 100.0 | 1968 | 9.240E-07 | 4.528E-06 | 4690 |
| F 102.0 | 1902 | 8.931E-07 | 4.376E-06 | 4710 |
| 104.0 | 1494 | 7.017E-07 | 3.438E-06 | 4770 |
| 106.0 | 2362 | 1.109E-06 | 5.435E-06 | 4810 |
| 108.0 | 725 | 3.405E-07 | 1.668E-06 | 4870 |
| 110.0 | 685 | 3.220E-07 | 1.578E-06 | 4920 |
| 112.0 | 46 | 2.205E-08 | 1.081E-07 | 4990 |
| 114.0 | 0 | 1.323E-10 | 6.483E-10 | 5080 |
| 116.0 | 0 | 0. | 0. | 5020 |
| 118.0 | 3 | 1.764E-09 | 8.645E-09 | 5100 |
| 120.0 | 0 | 0. | 0. | 5130 |

CROSSWIND INTEGRATED= 8.485E-04 SEC/SQ.M 4.158E-03 1/M

TEST U66 AUGUST 29, 1969 0056 TO 0126 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT 111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 4620 |
| 94.0 | 0 | 5.923E-10 | 2.436E-09 | 4620 |
| C 96.0 | 0 | 5.923E-10 | 2.436E-09 | 4620 |
| 98.0 | 1 | 5.593E-10 | 2.253E-09 | 4660 |
| W 100.0 | 33 | 1.591E-08 | 9.604E-08 | 4690 |
| F 102.0 | 33 | 1.552E-08 | 9.621E-08 | 4710 |
| 104.0 | 17 | 8.250E-09 | 5.115E-08 | 4770 |
| 106.0 | 46 | 2.254E-08 | 1.430E-07 | 4810 |
| 108.0 | 115 | 5.401E-08 | 3.349E-07 | 4870 |
| 110.0 | 52 | 2.475E-08 | 1.534E-07 | 4920 |
| 112.0 | 20 | 9.426E-09 | 5.845E-08 | 4990 |
| 114.0 | 43 | 1.995E-08 | 1.101E-07 | 5081 |
| 116.0 | 0 | 0. | 0. | 5020 |
| 118.0 | 0 | 0. | 0. | 5100 |
| 120.0 | 0 | 0. | 0. | 5130 |
| 122.0 | 0 | 0. | 0. | 4830 |

CROSSWIND INTEGRATED= 2.909E-05 SEC/SQ.M 1.798E-04 1/M

1202846



U86

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 6 | 3.143E-09 | 1.5[illegible]E-08 | 6280 |
| 78.0 | 0 | 0. | 0. | 6300 |
| 80.0 | 17 | 8.250E-09 | 5.115E-08 | 6400 |
| 6 82.0 | 0 | 0. | 0. | 6490 |
| 84.0 | 1 | 7.857E-10 | 4.871E-09 | 6500 |
| 86.0 | 23 | 1.100E-08 | 6.820E-08 | 6500 |
| 88.0 | 0 | 0. | 0. | 6480 |
| 90.0 | 0 | 0. | 0. | 6500 |
| 92.0 | 5 | 2.750E-09 | 1.705E-08 | 6490 |
| 94.0 | 0 | 0. | 0. | 6500 |
| 96.0 | 5 | 2.750E-09 | 1.705E-08 | 6510 |
| 98.0 | 15 | 7.071E-09 | 4.384E-08 | 6520 |
| 100.0 | 61 | 2.868E-08 | 1.779E-07 | 6560 |
| 102.0 | 12 | 6.089E-09 | 3.775E-08 | 6510 |
| 104.0 | 201 | 9.448E-08 | 5.858E-07 | 6650 |
| 106.0 | 23 | 1.120E-08 | 6.941E-08 | 6720 |
| 108.0 | 460 | 2.163E-07 | 1.341E-06 | 6800 |
| 110.0 | 182 | 8.583E-08 | 5.322E-07 | 7000 |
| 112.0 | 106 | 5.009E-08 | 3.105E-07 | 7300 |
| P 114.0 | 23 | 1.100E-08 | 6.820E-08 | 7210 |
| 116.0 | 2 | 1.375E-09 | 8.525E-09 | 7220 |
| 118.0 | 0 | 0. | 0. | 7190 |
| 120.0 | 0 | 0. | 0. | 7150 |
| 122.0 | 0 | 3.928E-10 | 2.436E-09 | 7120 |
| X 124.0 | 0 | 0. | 0. | 7100 |
| 126.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 1.294E-04 SEC/SQ.M 7.990E-04 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 6.2 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.0 | 0 | 0. | 0. | 12800 |
| 7 98.0 | 1 | 7.857E-10 | 4.871E-09 | 12800 |
| 99.0 | 2 | 1.179E-09 | 7.307E-09 | 12800 |
| 5 100.0 | 7 | 3.732E-09 | 2.314E-08 | 12800 |
| 101.0 | 7 | 3.732E-09 | 2.314E-08 | 12800 |
| 9 102.0 | 0 | 0. | 0. | 12800 |
| 103.0 | 18 | 8.839E-09 | 5.480E-08 | 12800 |
| 104.0 | 10 | 5.107E-09 | 3.166E-08 | 12800 |
| 4 105.0 | 6 | 3.143E-09 | 1.948E-08 | 12800 |
| 106.0 | 9 | 4.514E-09 | 2.801E-08 | 12800 |
| 7 107.0 | 10 | 4.910E-09 | 3.044E-08 | 12800 |
| 5 108.0 | 12 | 6.089E-09 | 3.775E-08 | 12800 |
| 8 109.0 | 30 | 1.414E-08 | 8.768E-08 | 12800 |
| 110.0 | 173 | 8.151E-08 | 5.054E-07 | 12800 |
| 7 111.0 | 78 | 3.673E-08 | 2.277E-07 | 12800 |
| 112.0 | 149 | 7.032E-08 | 4.360E-07 | 12800 |
| P 113.0 | 956 | 4.492E-07 | 2.785E-06 | 12800 |
| 0 114.0 | 4 | 2.161E-09 | 1.340E-08 | 12800 |
| 0 115.0 | 0 | 0. | 0. | 12800 |
| 2 116.0 | 0 | 3.928E-10 | 2.436E-09 | 12800 |
| 117.0 | 2 | 1.179E-09 | 7.307E-09 | 12800 |
| 0 118.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 1.559E-04 SEC/SQ.M 9.663E-04 1/M

TEST U86 AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.0 | 0 | 0. | 0. | 6480 |
| 90.0 | 24 | 1.147E-08 | 5.619E-08 | 6500 |
| 92.0 | 79 | 3.749E-08 | 1.837E-07 | 6490 |
| 94.0 | 161 | 7.571E-08 | 3.710E-07 | 6500 |
| 96.0 | 587 | 2.757E-07 | 1.351E-06 | 6510 |
| 98.0 | 435 | 2.046E-07 | 1.003E-06 | 6520 |
| 100.0 | 1080 | 5.072E-07 | 2.485E-06 | 6560 |
| 102.0 | 1178 | 5.535E-07 | 2.712E-06 | 6610 |
| 104.0 | 1376 | 6.461E-07 | 3.166E-06 | 6650 |
| 106.0 | 685 | 3.220E-07 | 1.578E-06 | 6720 |
| 108.0 | 1001 | 4.702E-07 | 2.304E-06 | 6800 |
| 110.0 | 0 | 0. | 0. | 7000 |
| 112.0 | 92 | 4.337E-08 | 2.125E-07 | 7300 |
| P 114.0 | 0 | 0. | 0. | 7210 |
| 116.0 | 0 | 0. | 0. | 7220 |

CROSSWIND INTEGRATED= 7.295E-04 SEC/SQ.M 3.575E-03 1/M

TEST U86. AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 4.9 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.0 | 9 | 4.557E-09 | 2.233E-08 | 12800 |
| 5 92.0 | 21 | 1.014E-08 | 4.971E-08 | 12800 |
| 5 93.0 | 27 | 1.279E-08 | 6.267E-08 | 12800 |
| 6 94.0 | 27 | 1.279E-08 | 6.267E-08 | 12800 |
| P 95.0 | 32 | 1.544E-08 | 7.564E-08 | 12800 |
| 4 96.0 | 24 | 1.147E-08 | 5.619E-08 | 12800 |
| 97.0 | 31 | 1.500E-08 | 7.348E-08 | 12800 |
| 7 98.0 | 40 | 1.896E-08 | 9.293E-08 | 12800 |
| 99.0 | 47 | 2.249E-08 | 1.102E-07 | 12800 |
| 4 100.0 | 82 | 3.896E-08 | 1.909E-07 | 12800 |
| 101.0 | 92 | 4.337E-08 | 2.125E-07 | 12800 |
| 9 102.0 | 108 | 5.072E-08 | 2.485E-07 | 12800 |
| 103.0 | 155 | 7.277E-08 | 3.566E-07 | 12800 |
| 104.0 | 255 | 1.198E-07 | 5.871E-07 | 12800 |
| P 105.0 | 214 | 1.007E-07 | 4.935E-07 | 12800 |
| 4 106.0 | 455 | 2.139E-07 | 1.048E-06 | 12800 |
| 7 107.0 | 521 | 2.448E-07 | 1.199E-06 | 12800 |
| 5 108.0 | 474 | 2.227E-07 | 1.091E-06 | 12800 |
| 6 109.0 | 872 | 4.094E-07 | 2.006E-06 | 12800 |
| 110.0 | 809 | 3.800E-07 | 1.862E-06 | 12800 |
| 7 111.0 | 142 | 6.689E-08 | 3.278E-07 | 12800 |
| 112.0 | 305 | 1.433E-07 | 7.024E-07 | 12800 |
| P 113.0 | 145 | 6.836E-08 | 3.350E-07 | 12800 |
| 9 114.0 | 34 | 1.632E-08 | 7.996E-08 | 12800 |
| 0 115.0 | 33 | 1.588E-08 | 7.780E-08 | 12800 |
| 116.0 | 15 | 7.057E-09 | 3.458E-08 | 12800 |
| 117.0 | 1 | 5.734E-10 | 2.809E-09 | 12800 |
| 0 118.0 | 0 | 0. | 0. | 12800 |
| 119.0 | 2 | 9.703E-10 | 4.754E-09 | 12800 |
| 120.0 | 0 | 0. | 0. | 12800 |
| 121.0 | 0 | 0. | 0. | 12800 |
| 122.0 | 0 | 0. | 0. | 12800 |
| 123.0 | 0 | 4.410E-10 | 2.161E-09 | 12800 |
| 6 124.0 | 13 | 6.175E-09 | 3.026E-08 | 12800 |
| 8 125.0 | 40 | 1.896E-08 | 9.293E-08 | 12800 |
| 7 126.0 | 11 | 5.587E-09 | 2.737E-08 | 12800 |
| 127.0 | 0 | 0. | 0. | 12800 |
| 128.0 | 0 | 0. | 0. | 12800 |
| 129.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 5.298E-04 SEC/SQ.M 2.596E-03 1/M

1202847



U86

SAMPLING 400M TO 12000M PLUS ONE TOWER ON 3200M-ARC. TRACER DISTRIBUTION IS ERRATIC ON ALL ARCS, PARTIALLY DUE TO HEAVY DUST LOADS ON FILTERS, BUT PERHAPS ALSO DUE TO CONTAMINATION.
26 MIN OF ZNS DISPERSAL: NO FLUORESCEIN DISPERSED. STRONG WIND SPEED AND DIRECTION SHEAR ABOVE 50M ELEVATION.

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | I/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 46.0 | 0 | 0. | 0. | 400 |
| 70.0 | 20 | 5.0971E-09 | 3.1101E-08 | 400 |
| 74.0 | 0 | 0. | 0. | 400 |
| 78.0 | 21 | 5.456E-09 | 3.326E-08 | 400 |
| 82.0 | 10 | 2.546E-09 | 1.553E-08 | 400 |
| Z 86.0 | 0 | 0. | 0. | 400 |
| 90.0 | 125 | 3.165E-06 | 1.930E-07 | 400 |
| 94.0 | 2 | 7.279E-10 | 4.438E-09 | 400 |
| 98.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 1.270E-06 SEC/SQ.M 7.745E-06 1/M

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | I/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| R 77.0 | 145 | 3.673E-06 | 2.241E-07 | 771 |
| 79.0 | 355 | 8.994E-06 | 5.486E-07 | 774 |
| 81.1 | 355 | 8.994E-06 | 5.486E-07 | 778 |
| 83.1 | 123 | 3.117E-06 | 1.901E-07 | 781 |
| 85.2 | 82 | 2.078E-06 | 1.268E-07 | 785 |
| 87.2 | 429 | 1.086E-07 | 6.512E-07 | 789 |
| 89.2 | 85 | 2.151E-06 | 1.330E-07 | 792 |
| 91.2 | 154 | 3.903E-06 | 2.381E-07 | 795 |
| 93.2 | 77 | 1.952E-06 | 1.190E-07 | 799 |
| Z 95.1 | 50 | 1.267E-06 | 7.703E-08 | 802 |
| 97.1 | 279 | 7.069E-07 | 4.272E-07 | 806 |
| 99.1 | 209 | 5.291E-07 | 3.241E-07 | 809 |
| 101.1 | 82 | 2.078E-06 | 1.268E-07 | 813 |
| 103.0 | 18 | 4.562E-07 | 2.801E-08 | 816 |
| Z 105.0 | 36 | 2.101E-06 | 1.330E-07 | 820 |
| 106.9 | 0 | 0. | 0. | 823 |
| 108.8 | 50 | 1.267E-06 | 7.703E-08 | 826 |
| 110.7 | 0 | 0. | 0. | 829 |

CROSSWIND INTEGRATED= 1.402E-05 SEC/SQ.M 1.099E-04 1/M

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 73.4 | 102 | 2.574E-08 | 1.570E-07 | 1568 |
| | 74.4 | 105 | 2.650E-08 | 1.616E-07 | 1570 |
| | 75.5 | 99 | 2.498E-08 | 1.524E-07 | 1572 |
| | 76.5 | 66 | 1.666E-08 | 1.016E-07 | 1573 |
| | 77.5 | 159 | 4.012E-08 | 2.448E-07 | 1575 |
| | 78.5 | 18 | 4.542E-09 | 2.771E-08 | 1577 |
| | 79.5 | 48 | 1.211E-08 | 7.389E-08 | 1578 |
| | 80.5 | 27 | 6.814E-09 | 4.156E-08 | 1580 |
| | 81.5 | 168 | 4.240E-08 | 2.586E-07 | 1582 |
| | 82.6 | 51 | 1.287E-08 | 7.851E-08 | 1584 |
| | 83.6 | 0 | 0. | 0. | 1585 |
| | 84.6 | 48 | 1.211E-08 | 7.389E-08 | 1587 |
| | 85.6 | 123 | 3.104E-08 | 1.893E-07 | 1589 |
| | 86.6 | 6 | 1.514E-09 | 9.236E-09 | 1590 |
| | 87.6 | 162 | 4.088E-08 | 2.494E-07 | 1592 |
| | 88.6 | 0 | 0. | 0. | 1594 |
| | 89.6 | 0 | 0. | 0. | 1596 |
| | 90.6 | 312 | 7.873E-08 | 4.803E-07 | 1597 |
| | 91.6 | 0 | 0. | 0. | 1599 |
| | 92.6 | 15 | 3.785E-09 | 2.309E-08 | 1601 |
| | 93.6 | 300 | 7.571E-08 | 4.618E-07 | 1603 |
| | 94.6 | 222 | 5.602E-08 | 3.417E-07 | 1604 |
| S | 95.6 | 0 | 0. | 0. | 1606 |
| | 96.6 | 192 | 4.845E-08 | 2.956E-07 | 1608 |
| | 97.6 | 0 | 0. | 0. | 1610 |

CROSSWIND INTEGRATED= 1.572E-05 SEC/SQ.M 9.587E-05 1/M

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 72.7 | 186 | 4.709E-08 | 2.873E-07 | 3168 |
| | 73.7 | 122 | 3.092E-08 | 1.886E-07 | 3170 |
| | 74.7 | 131 | 3.307E-08 | 2.017E-07 | 3172 |
| | 75.7 | 199 | 5.033E-08 | 3.070E-07 | 3173 |
| | 76.8 | 162 | 4.098E-08 | 2.500E-07 | 3175 |
| | 77.8 | 74 | 1.869E-08 | 1.140E-07 | 3177 |
| | 78.8 | 149 | 3.775E-08 | 2.303E-07 | 3179 |
| | 79.8 | 202 | 5.105E-08 | 3.114E-07 | 3180 |
| | 80.8 | 95 | 2.409E-08 | 1.469E-07 | 3182 |
| | 81.8 | 97 | 2.449E-08 | 1.491E-07 | 3184 |
| | 82.8 | 275 | 6.938E-08 | 4.232E-07 | 3185 |
| | 83.8 | 91 | 2.301E-08 | 1.403E-07 | 3187 |
| | 84.8 | 115 | 2.912E-08 | 1.776E-07 | 3189 |
| | 85.8 | 72 | 1.833E-08 | 1.118E-07 | 3191 |
| | 86.8 | 58 | 1.474E-08 | 8.991E-08 | 3192 |
| | 87.8 | 201 | 5.069E-08 | 3.092E-07 | 3194 |
| | 88.8 | 37 | 9.347E-09 | 5.702E-08 | 3196 |
| | 89.8 | 77 | 1.941E-08 | 1.184E-07 | 3198 |
| | 90.8 | 117 | 2.948E-08 | 1.798E-07 | 3199 |
| | 91.8 | 191 | 4.817E-08 | 2.938E-07 | 3201 |
| | 92.8 | 0 | 0. | 0. | 3203 |
| | 93.8 | 8 | 2.157E-09 | 1.316E-08 | 3205 |
| | 94.8 | 186 | 4.709E-08 | 2.873E-07 | 3206 |
| | 95.8 | 0 | 0. | 0. | 3208 |
| | 96.8 | 94 | 2.378E-08 | 1.449E-07 | 3210 |
| S | 97.8 | 0 | 0. | 0. | 3212 |
| | 98.8 | 77 | 1.941E-08 | 1.184E-07 | 3213 |
| S | 99.8 | 17 | 4.314E-09 | 2.631E-08 | 3215 |
| | 100.8 | 24 | 6.111E-09 | 3.728E-08 | 3217 |
| | 101.8 | 144 | 3.631E-08 | 2.215E-07 | 3219 |
| | 102.8 | 0 | 0. | 0. | 3220 |
| | 103.8 | 0 | 0. | 0. | 3222 |
| | 104.8 | 0 | 0. | 0. | 3224 |
| | 105.8 | 0 | 0. | 0. | 3225 |
| | 106.8 | 329 | 8.304E-08 | 5.066E-07 | 3227 |
| | 107.8 | 151 | 3.811E-08 | 2.324E-07 | 3229 |
| | 108.8 | 2 | 7.190E-10 | 4.386E-09 | 3230 |
| | 109.7 | 0 | 0. | 0. | 3232 |

CROSSWIND INTEGRATED= 5.215E-05 SEC/SQ.M 3.181E-04 1/M

120-2849

TEST U67 SEPTEMBER 6, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 1119
5000M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT1119

| AZIMUTH DEGREES | EXPOSURE, GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| Z 82.0 | 7 | 1.792E-09 | 1.073E-04 | 4630 |
| 84.0 | 30 | 7.794E-09 | 4.757E-08 | 4520 |
| 86.0 | 19 | 4.946E-09 | 2.957E-08 | 4610 |
| 88.0 | 4 | 1.159E-09 | 7.071E-09 | 4510 |
| 90.0 | 6 | 1.686E-09 | 1.029E-08 | 4610 |
| 6 92.0 | 0 | 0. | 0. | 4620 |
| 94.0 | 0 | 2.108E-10 | 1.286E-09 | 4520 |
| 96.0 | 18 | 4.742E-09 | 2.893E-08 | 4620 |
| 98.0 | 80 | 2.029E-08 | 1.234E-07 | 4660 |
| W 100.0 | 100 | 2.724E-08 | 1.665E-07 | 4590 |
| 102.0 | 5 | 1.370E-09 | 8.357E-09 | 4710 |
| 104.0 | 0 | 0. | 0. | 4770 |
| 106.0 | 0 | 2.108E-10 | 1.286E-09 | 4810 |
| 108.0 | 0 | 0. | 0. | 4870 |
| 9 110.0 | 9 | 2.424E-09 | 1.479E-08 | 4920 |
| P 112.0 | 58 | 1.465E-08 | 8.935E-08 | 4990 |
| H 114.0 | 0 | 0. | 0. | 5080 |
| C 116.0 | 33 | 8.431E-09 | 5.143E-08 | 5320 |
| 118.0 | 0 | 0. | 0. | 5100 |
| 120.0 | 0 | 0. | 0. | 5130 |

CROSSWIND INTEGRATED= 1.605E-05 9.790E-05
SEC/SQ.M 1/M

TEST U67 SEPTEMBER 6, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 1119
7000M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT1119M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| X 76.0 | 0 | 0. | 0. | 6280 |
| O 78.0 | 0 | 0. | 0. | 6300 |
| 7 80.0 | 63 | 2.108E-08 | 1.286E-07 | 6400 |
| 82.0 | 0 | 0. | 0. | 6490 |
| 9 84.0 | 34 | 8.747E-09 | 5.336E-08 | 6500 |
| 5 86.0 | 45 | 1.149E-08 | 7.007E-08 | 6500 |
| C 88.0 | 0 | 0. | 0. | 6490 |
| O 90.0 | 51 | 1.296E-08 | 7.943E-08 | 6500 |
| C 92.0 | 0 | 0. | 0. | 6490 |
| D 94.0 | 55 | 1.391E-08 | 8.485E-08 | 6500 |
| 5 96.0 | 102 | 2.592E-08 | 1.581E-07 | 6510 |
| 4 98.0 | 305 | 7.648E-08 | 4.661E-07 | 6520 |
| 6 100.0 | 289 | 7.144E-08 | 4.356E-07 | 6550 |
| 5 102.0 | 315 | 7.930E-08 | 4.836E-07 | 6610 |
| 4 104.0 | 123 | 3.119E-08 | 1.903E-07 | 6650 |
| C 106.0 | 12 | 3.267E-09 | 1.993E-08 | 6720 |
| O 108.0 | 10 | 2.529E-09 | 1.543E-08 | 6800 |
| 3 110.0 | 72 | 1.828E-08 | 1.112E-07 | 7000 |
| 3 112.0 | 517 | 1.334E-07 | 7.945E-07 | 7300 |
| 8 114.0 | 185 | 4.679E-08 | 2.854E-07 | 7210 |
| 2 116.0 | 106 | 2.677E-08 | 1.633E-07 | 7220 |
| 9 118.0 | 64 | 1.621E-08 | 9.905E-08 | 7190 |
| 3 120.0 | 158 | 3.994E-08 | 2.436E-07 | 7150 |
| 8 122.0 | 45 | 1.149E-08 | 7.007E-08 | 7120 |
| 124.0 | 0 | 0. | 0. | 7100 |
| C 126.0 | 0 | 0. | 0. | 7100 |
| 9 128.0 | 62 | 1.573E-08 | 9.573E-08 | 7100 |
| 4 130.0 | 135 | 3.424E-08 | 2.076E-07 | 7130 |
| 5 132.0 | 94 | 2.392E-08 | 1.459E-07 | 7150 |
| 9 134.0 | 29 | 7.377E-09 | 4.500E-08 | 7200 |
| O 136.0 | 0 | 0. | 0. | 7250 |
| 9 138.0 | 42 | 1.075E-08 | 6.557E-08 | 7300 |
| O 140.0 | 23 | 5.726E-09 | 3.536E-08 | 7350 |
| 6 142.0 | 50 | 1.265E-08 | 7.714E-08 | 7250 |
| 8 144.0 | 28 | 7.051E-09 | 4.307E-08 | 7110 |
| C 146.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 1.841E-04 1.123E-03
SEC/SQ.M 1/M

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 6.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 5 91.0 | 0 | 0. | 0. | 12800 |
| 9 92.0 | 0 | 0. | 0. | 12800 |
| 3 93.0 | 0 | 0. | 0. | 12800 |
| C 94.0 | 0 | 0. | 0. | 12800 |
| 4 95.0 | 0 | 0. | 0. | 12800 |
| 6 98.0 | 0 | 0. | 0. | 12800 |
| 2 100.0 | 0 | 0. | 0. | 12800 |
| 2 101.0 | 0 | 0. | 0. | 12800 |
| 0 105.0 | 0 | 0. | 0. | 12800 |
| 110.0 | 0 | 0. | 0. | 12800 |
| 9 115.0 | 0 | 0. | 0. | 12800 |
| 119.0 | 0 | 0. | 0. | 12800 |
| 3 120.0 | 2 | 6.323E-10 | 3.657E-09 | 12800 |
| 6 121.0 | 1 | 4.215E-10 | 2.571E-09 | 12800 |
| C 122.0 | 12 | 3.161E-09 | 1.926E-08 | 12800 |
| 3 123.0 | 7 | 1.897E-09 | 1.157E-08 | 12800 |
| 8 124.0 | 17 | 4.321E-09 | 2.636E-08 | 12800 |
| 0 125.0 | 19 | 4.953E-09 | 3.021E-08 | 12800 |
| 7 126.0 | 28 | 7.061E-09 | 4.307E-08 | 12800 |
| 8 127.0 | 40 | 1.012E-08 | 6.171E-08 | 12800 |
| 7 128.0 | 34 | 8.641E-09 | 5.271E-08 | 12800 |
| 8 129.0 | 31 | 8.009E-09 | 4.886E-08 | 12800 |
| 8 130.0 | 70 | 1.770E-08 | 1.080E-07 | 12800 |
| 9 131.0 | 17 | 4.321E-09 | 2.636E-08 | 12800 |
| 6 132.0 | 29 | 7.377E-09 | 4.500E-08 | 12800 |
| F 133.0 | 103 | 2.603E-08 | 1.588E-07 | 12800 |
| C 134.0 | 15 | 3.899E-09 | 2.376E-08 | 12800 |
| 9 135.0 | 32 | 8.114E-09 | 4.950E-08 | 12800 |
| 9 136.0 | 64 | 1.612E-08 | 9.835E-08 | 12800 |
| 6 137.0 | 101 | 2.550E-08 | 1.556E-07 | 12800 |
| 0 138.0 | 7 | 1.897E-09 | 1.157E-08 | 12800 |
| 7 139.0 | 47 | 1.201E-08 | 7.326E-08 | 12800 |
| 9 140.0 | 61 | 1.539E-08 | 9.385E-08 | 12800 |
| 4 141.0 | 189 | 4.744E-08 | 2.918E-07 | 12800 |
| 6 142.0 | 125 | 3.151E-08 | 1.922E-07 | 12800 |
| 0 143.0 | 16 | 4.110E-09 | 2.507E-08 | 12800 |
| 7 144.0 | 115 | 2.909E-08 | 1.774E-07 | 12800 |
| 8 145.0 | 32 | 8.220E-09 | 5.014E-08 | 12800 |
| 6 146.0 | 66 | 1.626E-08 | 1.029E-07 | 12800 |
| 5 147.0 | 67 | 1.697E-08 | 1.035E-07 | 12800 |
| 4 148.0 | 77 | 1.950E-08 | 1.189E-07 | 12800 |
| 9 149.0 | 41 | 1.043E-08 | 6.364E-08 | 12800 |
| 4 150.0 | 12 | 3.267E-09 | 1.993E-08 | 12800 |
| 7 151.0 | 17 | 4.426E-09 | 2.700E-08 | 12800 |

CROSSWIND INTEGRATED= 8.495E-05 SEC/SQ.M 5.176E-04 1/M

TOWER DATA FOLLOW....

TEST U87 SEPTEMBER 8, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC U= 6.1 M/SEC AT111M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 115.6 | .2 | 0 | 0. | 0. | 3200 |
| 115.6 | .4 | 0 | 0. | 0. | 3200 |
| 115.6 | .8 | 0 | 0. | 0. | 3200 |
| 115.6 | 1.5 | 54 | 1.366E-08 | 8.333E-08 | 3200 |
| 115.6 | 3.1 | 0 | 0. | 0. | 3200 |
| 115.6 | 6.2 | 0 | 0. | 0. | 3200 |
| 115.6 | 9.3 | 0 | 0. | 0. | 3200 |
| 115.6 | 12.4 | 0 | 0. | 0. | 3200 |
| 115.6 | 15.5 | 0 | 0. | 0. | 3200 |
| 115.6 | 18.6 | 2 | 6.847E-10 | 4.177E-09 | 3200 |
| 115.6 | 21.7 | 0 | 0. | 0. | 3200 |
| 115.6 | 24.8 | 0 | 0. | 0. | 3200 |
| 115.6 | 31.0 | 96 | 2.431E-08 | 1.483E-07 | 3200 |
| 115.6 | 37.2 | 237 | 5.992E-08 | 3.655E-07 | 3200 |
| 115.6 | 43.4 | 504 | 1.270E-07 | 7.748E-07 | 3200 |
| 115.6 | 49.6 | 354 | 8.936E-08 | 5.451E-07 | 3200 |
| 115.6 | 55.8 | 2173 | 5.474E-07 | 3.339E-06 | 3200 |
| 115.6 | 62.0 | 2624 | 6.611E-07 | 4.033E-06 | 3200 |

1202051

SAMPLING 400M TO 12800M; TOWER SAMPLING AT 3200M, 115.6 DEG. NO ZNS TRACER OBSERVED CLOSER THAN 3200M ARC. AND DUST AND SAMPLER FAILURE CAUSED PROBLEMS WHERE TRACER WAS FOUND. FOR FLUORESCEIN, TRACER ON 0049, OFF 0055, ON AGAIN 0132, AND FINALLY OFF 0142. THIS TEST WAS MARGINALLY SUCCESSFUL, ESPECIALLY FOR FLUORESCEIN.

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 78.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 62.0 | 3 | 9.223E-09 | 7.010E-08 | 400 |
| 66.0 | 14 | 3.978E-08 | 3.023E-07 | 400 |
| 70.0 | 7 | 2.075E-08 | 1.577E-07 | 400 |
| 74.0 | 8 | 2.248E-08 | 1.709E-07 | 400 |
| 78.0 | 10 | 2.767E-08 | 2.103E-07 | 400 |
| 82.0 | 16 | 4.323E-08 | 3.286E-07 | 400 |
| 86.0 | 14 | 3.978E-08 | 3.023E-07 | 400 |
| 90.0 | 5 | 1.499E-08 | 1.139E-07 | 400 |
| 94.0 | 23 | 6.226E-08 | 4.732E-07 | 400 |
| 98.0 | 11 | 3.113E-08 | 2.366E-07 | 400 |
| 102.0 | 5 | 1.384E-08 | 1.051E-07 | 400 |
| 106.0 | 7 | 2.075E-08 | 1.577E-07 | 400 |
| 110.0 | 12 | 3.372E-08 | 2.563E-07 | 400 |
| 9 114.0 | 8 | 2.335E-08 | 1.774E-07 | 400 |
| 118.0 | 3 | 8.935E-09 | 6.791E-08 | 400 |
| 122.0 | 5 | 1.470E-08 | 1.117E-07 | 400 |
| 4 126.0 | 11 | 3.113E-08 | 2.366E-07 | 400 |
| 6 130.0 | 6 | 1.643E-08 | 1.249E-07 | 400 |
| 0 134.0 | 3 | 8.070E-09 | 6.134E-08 | 400 |
| 138.0 | 5 | 1.412E-08 | 1.073E-07 | 400 |
| 142.0 | 12 | 3.459E-08 | 2.629E-07 | 400 |
| 146.0 | 7 | 2.075E-08 | 1.577E-07 | 400 |
| 4 150.0 | 6 | 1.729E-08 | 1.314E-07 | 400 |
| 8 154.0 | 5 | 1.470E-08 | 1.117E-07 | 400 |

CROSSWIND INTEGRATED= 1.630E-05 SEC/SQ.M 1.239E-04 1/M

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 77.0 | 0 | 0. | 0. | 771 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 131.4 | 0 | 0. | 0. | 862 |
| 133.2 | 8 | 2.292E-08 | 1.742E-07 | 865 |
| 134.9 | 0 | 0. | 0. | 867 |
| 136.9 | 0 | 1.910E-09 | 1.452E-08 | 870 |
| 138.7 | 3 | 9.551E-09 | 7.259E-08 | 872 |
| 140.6 | 4 | 1.146E-08 | 8.711E-08 | 874 |
| 142.4 | 5 | 1.337E-08 | 1.016E-07 | 876 |
| 144.2 | 4 | 1.146E-08 | 8.711E-08 | 878 |
| 146.0 | 2 | 5.731E-09 | 4.355E-08 | 880 |
| 147.8 | 0 | 0. | 0. | 882 |
| 149.6 | 2 | 6.686E-09 | 5.081E-08 | 884 |
| B 151.4 | 2 | 6.686E-09 | 5.081E-08 | 886 |

CROSSWIND INTEGRATED= 2.467E-06 SEC/SQ.M 1.875E-05 1/M

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 73.4 | 0 | 0. | 0. | 1568 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U88 SEPTEMBER 10, 1969 0132 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= [illegible] M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 115.6 | 0 | 0. | 0. | 3241 |
| P 116.6 | 1 | 4.5[illegible]E-10 | 2.937E-09 | 3243 |
| P 117.6 | 82 | 2.662E-06 | 1.733E-07 | 3245 |
| P 118.6 | 0 | 0. | 0. | 3246 |
| P 119.5 | 206 | 6.654E-06 | 4.259E-07 | 3248 |
| P 120.5 | 0 | 0. | 0. | 3249 |
| P 121.5 | 0 | 0. | 0. | 3251 |
| W 122.4 | 162 | 5.231E-06 | 3.346E-07 | 3252 |
| W 123.4 | 0 | 0. | 0. | 3253 |

CROSSWIND INTEGRATED= 7.939E-06 SEC/SQ.M 5.080E-05 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 5M
1600M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 5M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| R 103.6 | 4 | 1.071E-08 | 8.130E-08 | 1620 |
| 104.5 | 1 | 3.149E-09 | 2.394E-08 | 1622 |
| 105.5 | 0 | 1.890E-09 | 1.436E-08 | 1623 |
| 106.5 | 8 | 2.142E-08 | 1.628E-07 | 1625 |
| 107.5 | 40 | 1.083E-07 | 8.234E-07 | 1627 |
| 108.5 | 349 | 9.322E-07 | 7.085E-06 | 1628 |
| 109.5 | 413 | 1.102E-06 | 8.377E-06 | 1630 |
| 110.4 | 441 | 1.178E-06 | 8.952E-06 | 1632 |
| 111.4 | 1814 | 4.838E-06 | 3.677E-05 | 1633 |
| 112.4 | 3750 | 1.000E-05 | 7.602E-05 | 1635 |
| 113.4 | 1081 | 2.885E-06 | 2.193E-05 | 1637 |
| 114.4 | 2475 | 6.601E-06 | 5.017E-05 | 1638 |
| 115.3 | 1530 | 4.082E-06 | 3.102E-05 | 1640 |
| 116.3 | 1743 | 4.649E-06 | 3.533E-05 | 1641 |
| 117.3 | 392 | 1.046E-06 | 7.947E-06 | 1643 |
| 118.2 | 845 | 2.255E-06 | 1.714E-05 | 1644 |
| 119.2 | 3467 | 9.247E-06 | 7.026E-05 | 1646 |
| 120.2 | 916 | 2.444E-06 | 1.857E-05 | 1647 |
| 121.2 | 774 | 2.066E-06 | 1.570E-05 | 1649 |
| 122.1 | 2333 | 6.223E-06 | 4.730E-05 | 1650 |
| 123.1 | 703 | 1.877E-06 | 1.427E-05 | 1652 |
| 124.1 | 0 | 2.142E-09 | 1.628E-08 | 1653 |
| 125.0 | 1 | 3.149E-09 | 2.394E-08 | 1655 |
| 126.0 | 0 | 0. | 0. | 1656 |
| 126.9 | 0 | 0. | 0. | 1658 |

CROSSWIND INTEGRATED= 1.728E-03 SEC/SQ.M 1.313E-02 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 5M
3200M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 5M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.8 | 1 | 3.418E-09 | 2.598E-08 | 3220 |
| 103.8 | 21 | 5.726E-08 | 4.352E-07 | 3222 |
| 104.8 | 112 | 2.991E-07 | 2.273E-06 | 3224 |
| 105.8 | 440 | 1.176E-06 | 8.937E-06 | 3225 |
| 106.8 | 983 | 2.624E-06 | 1.994E-05 | 3227 |
| 107.8 | 548 | 1.463E-06 | 1.112E-05 | 3229 |
| 108.8 | 1119 | 2.982E-06 | 2.267E-05 | 3230 |
| 109.7 | 1881 | 5.016E-06 | 3.812E-05 | 3232 |
| 110.7 | 1881 | 5.016E-06 | 3.812E-05 | 3233 |
| 111.7 | 1948 | 5.196E-06 | 3.949E-05 | 3235 |
| 112.7 | 1948 | 5.196E-06 | 3.949E-05 | 3237 |
| 113.7 | 714 | 1.906E-06 | 1.448E-05 | 3238 |
| 114.6 | 961 | 2.564E-06 | 1.948E-05 | 3240 |
| 115.6 | 263 | 7.036E-07 | 5.347E-06 | 3241 |
| P 116.6 | 5 | 1.453E-08 | 1.104E-07 | 3243 |
| P 117.6 | 28 | 7.691E-08 | 5.845E-07 | 3245 |
| P 118.6 | 4 | 1.111E-08 | 8.443E-08 | 3246 |
| P 119.5 | 520 | 1.387E-06 | 1.[illegible]4E-05 | 3248 |
| P 120.5 | 153 | 4.102E-07 | 3.118E-06 | 3249 |
| P 121.5 | 3 | 8.261E-09 | 6.278E-08 | 3251 |
| W 122.4 | 3 | 9.970E-09 | 7.577E-08 | 3252 |
| W 123.4 | 0 | 8.546E-10 | 6.495E-09 | 3253 |
| W 124.4 | 0 | 5.697E-10 | 4.330E-09 | 3255 |
| 125.4 | 0 | 1.994E-09 | 1.515E-08 | 3256 |
| B 126.3 | 5 | 1.453E-08 | 1.104E-07 | 3258 |

CROSSWIND INTEGRATED= 2.001E-03 SEC/SQ.M 1.521E-02 1/M

TEST. U88 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 118.0 | 0 | 0. | 0. | 5100 |
| 120.0 | 125 | 4.022E-08 | 2.574E-07 | 5130 |
| 122.0 | 26 | 8.610E-09 | 5.510E-08 | 4830 |
| 124.0 | 0 | 0. | 0. | 4660 |
| 4 126.0 | 46 | 1.493E-08 | 9.557E-08 | 4770 |
| 7 128.0 | 0 | 0. | 0. | 4900 |
| W 130.0 | 0 | 0. | 0. | 4970 |

CROSSWIND INTEGRATED= 1.114E-05 SEC/SQ.M 7.130E-05 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 7.515E-10 | 5.712E-09 | 4620 |
| 98.0 | 0 | 1.002E-09 | 7.616E-09 | 4660 |
| 100.0 | 0 | 0. | 0. | 4690 |
| 102.0 | 1 | 2.756E-09 | 2.094E-08 | 4710 |
| 104.0 | 19 | 5.261E-08 | 3.998E-07 | 4770 |
| 106.0 | 221 | 5.912E-07 | 4.493E-06 | 4810 |
| 108.0 | 333 | 8.893E-07 | 6.759E-06 | 4870 |
| 110.0 | 905 | 2.415E-06 | 1.835E-05 | 4920 |
| 112.0 | 550 | 1.468E-06 | 1.116E-05 | 4990 |
| 6 114.0 | 94 | 2.528E-07 | 1.921E-06 | 5060 |
| 116.0 | 136 | 3.632E-07 | 2.761E-06 | 5020 |
| 118.0 | 267 | 7.140E-07 | 5.426E-06 | 5100 |
| 120.0 | 511 | 1.363E-06 | 1.036E-05 | 5130 |
| 122.0 | 412 | 1.100E-06 | 8.358E-06 | 4830 |
| 124.0 | 104 | 2.789E-07 | 2.120E-06 | 4660 |
| 4 126.0 | 1 | 3.507E-09 | 2.665E-08 | 4770 |
| 7 128.0 | 1 | 5.261E-09 | 3.998E-08 | 4900 |
| W 130.0 | 0 | 2.505E-09 | 1.904E-08 | 4970 |
| 132.0 | 2 | 5.762E-09 | 4.379E-08 | 4980 |
| 134.0 | 1 | 4.507E-09 | 3.427E-08 | 4990 |
| 6 136.0 | 0 | 2.505E-09 | 1.904E-08 | 5000 |

CROSSWIND INTEGRATED= 1.645E-03 SEC/SQ.M 1.250E-02 1/M

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| P 110.0 | 0 | 0. | 0. | 7000 |
| 6 112.0 | 0 | 0. | 0. | 7300 |
| 5 114.0 | 0 | 0. | 0. | 7210 |
| 116.0 | 9 | 2.960E-09 | 1.894E-08 | 7220 |
| 9 118.0 | 7 | 2.556E-09 | 1.636E-08 | 7190 |
| 4 120.0 | 156 | 5.031E-08 | 3.220E-07 | 7150 |
| 122.0 | 7 | 2.556E-09 | 1.636E-08 | 7120 |
| X 124.0 | 20 | 6.726E-09 | 4.305E-08 | 7100 |
| 9 126.0 | 0 | 0. | 0. | 7100 |
| 9 128.0 | 0 | 0. | 0. | 7100 |
| 4 130.0 | 0 | 0. | 0. | 7130 |

CROSSWIND INTEGRATED= 1.625E-05 SEC/SQ.M 1.040E-04 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| [illegible] 96.0 | 1 | 4.259E-09 | 3.237E-08 | 6510 |
| [illegible] 98.0 | 1 | 5.261E-09 | 3.998E-08 | 6520 |
| [illegible] 100.0 | 4 | 1.294E-08 | 9.837E-08 | 6560 |
| [illegible] 102.0 | 7 | 1.879E-08 | 1.426E-07 | 6610 |
| [illegible] 104.0 | 7 | 1.962E-08 | 1.491E-07 | 6650 |
| S 106.0 | 11 | 2.964E-08 | 2.253E-07 | 6720 |
| [illegible] 108.0 | 130 | 3.470E-07 | 2.637E-06 | 6800 |
| [illegible] 110.0 | 183 | 4.889E-07 | 3.716E-06 | 7000 |
| 6 112.0 | 217 | 5.808E-07 | 4.414E-06 | 7300 |
| [illegible] 114.0 | 294 | 7.854E-07 | 5.969E-06 | 7210 |
| 116.0 | 281 | 7.503E-07 | 5.702E-06 | 7220 |
| [illegible] 118.0 | 24 | 6.639E-08 | 5.045E-07 | 7190 |
| [illegible] 120.0 | 53 | 1.435E-07 | 1.091E-06 | 7150 |
| 122.0 | 274 | 7.328E-07 | 5.569E-06 | 7120 |
| [illegible] 124.0 | 0 | 1.253E-09 | 9.520E-09 | 7100 |
| [illegible] 126.0 | 1 | 3.507E-09 | 2.665E-08 | 7100 |
| [illegible] 128.0 | 3 | 9.770E-09 | 7.425E-08 | 7100 |
| [illegible] 130.0 | 0 | 0. | 0. | 7130 |

CROSSWIND INTEGRATED= 9.957E-04 SEC/SQ.M 7.566E-03 1/M

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 7.6 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| [illegible] 91.0 | 0 | 0. | 0. | 12800 |
| [illegible] 92.0 | 3 | [illegible].434E-09 | 6.410E-08 | 12800 |
| [illegible] 94.0 | 6 | 1.670E-08 | 1.269E-07 | 12800 |
| 4 96.0 | 15 | 4.092E-08 | 3.110E-07 | 12800 |
| [illegible] 95.0 | 1 | 4.927E-09 | 3.744E-08 | 12800 |
| [illegible] 96.0 | 6 | 1.837E-08 | 1.396E-07 | 12800 |
| [illegible] 97.0 | 5 | 1.503E-08 | 1.142E-07 | 12800 |
| [illegible] 98.0 | 7 | 2.004E-08 | 1.523E-07 | 12800 |
| [illegible] 99.0 | 5 | 1.503E-08 | 1.142E-07 | 12800 |
| [illegible] 100.0 | 1 | 5.177E-09 | 3.935E-08 | 12800 |

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12000M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 0 115.0 | 0 | 0. | 0. | 12000 |
| 7 116.0 | 0 | 2.690E-10 | 1.722E-09 | 12000 |
| 4 117.0 | 5 | 1.614E-09 | 1.033E-08 | 12000 |
| 6 118.0 | 3 | 1.211E-09 | 7.749E-09 | 12000 |
| 9 119.0 | 0 | 2.690E-10 | 1.722E-09 | 12000 |
| 5 120.0 | 21 | 6.861E-09 | 4.391E-08 | 12000 |
| 6 121.0 | 36 | 1.184E-08 | 7.576E-08 | 12000 |
| C 122.0 | 112 | 3.605E-08 | 2.307E-07 | 12000 |
| 4 123.0 | 40 | 1.305E-08 | 8.351E-08 | 12000 |
| 8 124.0 | 22 | 7.264E-09 | 4.649E-08 | 12000 |
| 0 125.0 | 14 | 4.574E-09 | 2.927E-08 | 12000 |
| 9 126.0 | 0 | 0. | 0. | 12000 |

CROSSWIND INTEGRATED= 1.854E-05 SEC/SQ.M 1.187E-04 1/M

| | | | | |
|---|---|---|---|---|
| 6 101.0 | 6 | 1.670E-08 | 1.269E-07 | 12000 |
| 0 102.0 | 1 | 5.177E-09 | 3.935E-08 | 12000 |
| 8 103.0 | 5 | 1.547E-08 | 1.206E-07 | 12000 |
| C 104.0 | 1 | 4.426E-09 | 3.364E-08 | 12000 |
| C 105.0 | 1 | 4.676E-09 | 3.554E-08 | 12000 |
| D 106.0 | 5 | 1.570E-08 | 1.193E-07 | 12000 |
| 1 107.0 | 7 | 2.088E-08 | 1.587E-07 | 12000 |
| 0 108.0 | 6 | 2.338E-08 | 1.777E-07 | 12000 |
| 9 109.0 | 5 | 1.420E-08 | 1.079E-07 | 12000 |
| 4 110.0 | 7 | 1.921E-08 | 1.460E-07 | 12000 |
| 0 111.0 | 9 | 2.422E-08 | 1.840E-07 | 12000 |
| 9 112.0 | 4 | 1.319E-08 | 1.003E-07 | 12000 |
| 7 113.0 | 12 | 3.340E-08 | 2.539E-07 | 12000 |
| 0 114.0 | 40 | 1.069E-07 | 8.123E-07 | 12000 |
| C 115.0 | 85 | 2.280E-07 | 1.733E-06 | 12000 |
| 7 116.0 | 138 | 3.699E-07 | 2.811E-06 | 12000 |
| 4 117.0 | 170 | 4.534E-07 | 3.446E-06 | 12000 |
| 6 118.0 | 91 | 2.447E-07 | 1.859E-06 | 12000 |
| 9 119.0 | 28 | 7.602E-08 | 5.839E-07 | 12000 |
| 5 120.0 | 94 | 2.530E-07 | 1.923E-06 | 12000 |
| 6 121.0 | 146 | 3.950E-07 | 3.002E-06 | 12000 |
| C 122.0 | 232 | 6.204E-07 | 4.715E-06 | 12000 |
| 4 123.0 | 113 | 3.031E-07 | 2.304E-06 | 12000 |
| 8 124.0 | 42 | 1.144E-07 | 8.695E-07 | 12000 |
| 0 125.0 | 2 | 5.929E-09 | 4.506E-08 | 12000 |
| 9 126.0 | 3 | 8.935E-09 | 6.791E-08 | 12000 |
| 5 127.0 | 0 | 2.171E-09 | 1.650E-08 | 12000 |
| 5 128.0 | 3 | 9.436E-09 | 7.171E-08 | 12000 |
| 8 129.0 | 1 | 3.925E-09 | 2.983E-08 | 12000 |
| 7 130.0 | 2 | 5.929E-09 | 4.506E-08 | 12000 |
| 0 131.0 | 2 | 7.933E-09 | 6.029E-08 | 12000 |
| 3 132.0 | 2 | 5.678E-09 | 4.316E-08 | 12000 |
| 6 133.0 | 5 | 1.369E-08 | 1.041E-07 | 12000 |
| 6 134.0 | 0 | 1.420E-09 | 1.079E-08 | 12000 |
| 7 135.0 | 0 | 2.422E-09 | 1.840E-08 | 12000 |
| 0 136.0 | 1 | 2.929E-09 | 2.225E-08 | 12000 |
| 7 137.0 | 0 | 0. | 0. | 12000 |
| 0 138.0 | 0 | 1.670E-10 | 1.269E-09 | 12000 |
| 8 139.0 | 1 | 3.674E-09 | 2.792E-08 | 12000 |
| 1 140.0 | 1 | 4.175E-09 | 3.173E-08 | 12000 |

CROSSWIND INTEGRATED= 8.042E-04 SEC/SQ.M 6.112E-03 1/M

TOWER DATA FOLLOW....

TEST U88 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC U= 6.4 M/SEC AT111M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 6 115.6 | .2 | 0 | 0. | 0. | 3200 |
| 6 115.6 | .4 | 0 | 0. | 0. | 3200 |
| 6 115.6 | .8 | 0 | 0. | 0. | 3200 |
| 6 115.6 | 1.6 | 0 | 0. | 0. | 3200 |
| 4 115.6 | 3.1 | 0 | 0. | 0. | 3200 |
| 115.6 | 6.2 | 0 | 0. | 0. | 3200 |
| 115.6 | 9.3 | 15 | 5.006E-09 | 3.234E-08 | 3200 |
| 115.6 | 12.4 | 0 | 0. | 0. | 3200 |
| 115.6 | 15.5 | 22 | 8.792E-09 | 5.627E-08 | 3200 |
| 115.6 | 18.6 | 0 | 0. | 0. | 3200 |
| W 115.6 | 21.7 | 0 | 0. | 0. | 3200 |
| W 115.6 | 24.8 | 0 | 0. | 0. | 3200 |
| W 115.6 | 31.0 | 0 | 0. | 0. | 3200 |
| W 115.6 | 37.2 | 11 | 3.792E-09 | 2.427E-08 | 3200 |
| 115.6 | 43.4 | 9 | 2.999E-09 | 1.919E-08 | 3200 |
| 115.6 | 49.6 | 0 | 0. | 0. | 3200 |
| 115.6 | 55.8 | 0 | 0. | 0. | 3200 |
| 115.6 | 62.0 | 0 | 0. | 0. | 3200 |

TOWER DATA FOLLOW....

TEST U89 SEPTEMBER 10, 1969 0497 TO 1627 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC U= 7.6 M/SEC AT 56M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 6 115.6 | .2 | 253 | 6.751E-07 | 5.131E-06 | 3200 |
| 6 115.6 | .4 | 124 | 3.333E-07 | 2.533E-06 | 3200 |
| 6 115.6 | .8 | 456 | 1.216E-06 | 9.244E-06 | 3200 |
| 115.6 | 1.5 | 263 | 7.036E-07 | 5.347E-06 | 3200 |
| 6 115.6 | 1.6 | 616 | 1.644E-06 | 1.249E-05 | 3200 |
| 4 115.6 | 3.1 | 624 | 1.666E-06 | 1.266E-05 | 3200 |
| 115.6 | 6.2 | 1140 | 3.042E-06 | 2.312E-05 | 3200 |
| 115.6 | 9.3 | 1163 | 3.102E-06 | 2.358E-05 | 3200 |
| 115.6 | 12.4 | 1320 | 3.521E-06 | 2.676E-05 | 3200 |
| 115.6 | 15.5 | 1634 | 4.358E-06 | 3.312E-05 | 3200 |
| 115.6 | 18.6 | 1544 | 4.119E-06 | 3.131E-05 | 3200 |
| W 115.6 | 21.7 | 1320 | 3.521E-06 | 2.676E-05 | 3200 |
| W 115.6 | 24.8 | 2621 | 6.990E-06 | 5.313E-05 | 3200 |
| W 115.6 | 31.0 | 1454 | 3.880E-06 | 2.949E-05 | 3200 |
| W 115.6 | 37.2 | 2688 | 7.170E-06 | 5.449E-05 | 3200 |
| 115.6 | 43.4 | 2352 | 6.273E-06 | 4.767E-05 | 3200 |
| 115.6 | 49.6 | 616 | 1.644E-06 | 1.249E-05 | 3200 |
| 115.6 | 55.8 | 201 | 5.364E-07 | 4.092E-06 | 3200 |
| 115.6 | 62.0 | 12 | 3.438E-08 | 2.598E-07 | 3200 |

SAMPLING 400M TO 12800M. SAMPLING AT ONLY ONE TOWER, BUT NO TRACER THEREON . NO ZNS ON 400M OR 800M ARCS. ZINC SULFIDE TRACER EMBRACED BY CROSSWIND EXTENT OF ARCS. FLUORESCEIN CROSSWIND DISTRIBUTIONS SEEM TO EXTEND OFF EDGES OF ARCS FREQUENTLY, BUT CONTAMINATION IS POSSIBILITY. NEITHER TRACER OBSERVED AT 12800M ARC.

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 78.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| Z 62.0 | 907 | 6.827E-07 | 2.048E-06 | 400 |
| 66.0 | 4 | 3.332E-09 | 9.996E-09 | 400 |
| 70.0 | 0 | 0. | 0. | 400 |
| 74.0 | 0 | 0. | 0. | 400 |
| 78.0 | 0 | 0. | 0. | 400 |
| 82.0 | 4 | 3.332E-09 | 9.996E-09 | 400 |
| 86.0 | 0 | 0. | 0. | 400 |
| 90.0 | 0 | 0. | 0. | 400 |
| 94.0 | 0 | 0. | 0. | 400 |
| 98.0 | 3530 | 2.654E-06 | 7.963E-06 | 400 |
| 102.0 | 1059 | 7.964E-07 | 2.389E-06 | 400 |
| 106.0 | 0 | 0. | 0. | 400 |
| 110.0 | 4 | 3.332E-09 | 9.996E-09 | 400 |
| 9 114.0 | 4 | 3.088E-09 | 9.265E-09 | 400 |
| 118.0 | 0 | 0. | 0. | 400 |
| 122.0 | 0 | 6.501E-10 | 1.950E-09 | 400 |
| 126.0 | 2 | 1.625E-09 | 4.876E-09 | 400 |
| 5 130.0 | 0 | 0. | 0. | 400 |
| H 134.0 | 0 | 0. | 0. | 400 |
| 138.0 | 0 | 0. | 0. | 400 |
| 142.0 | 0 | 0. | 0. | 400 |
| 146.0 | 0 | 0. | 0. | 400 |
| 150.0 | 0 | 0. | 0. | 400 |
| 154.0 | 4 | 3.332E-09 | 9.996E-09 | 400 |

CROSSWIND INTEGRATED= 1.159E-04 SEC/SQ.M 3.478E-04 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 77.0 | 0 | 0. | 0. | 771 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.2 | 0 | 0. | 0. | 795 |
| 93.2 | 540 | 4.064E-07 | 1.219E-06 | 799 |
| 95.2 | 712 | 5.356E-07 | 1.607E-06 | 802 |
| 97.1 | 0 | 0. | 0. | 806 |
| 99.1 | 6751 | 5.076E-06 | 1.523E-05 | 809 |
| 101.1 | 3291 | 2.475E-06 | 7.424E-06 | 813 |
| 103.0 | 816 | 6.140E-07 | 1.842E-06 | 816 |
| 105.0 | 0 | 0. | 0. | 820 |
| 106.9 | 712 | 5.356E-07 | 1.607E-06 | 823 |
| 108.8 | 1163 | 8.750E-07 | 2.625E-06 | 826 |
| 110.7 | 0 | 0. | 0. | 829 |
| 112.6 | 0 | 0. | 0. | 833 |

CROSSWIND INTEGRATED= 2.934E-04 SEC/SQ.M 8.802E-04 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.6 | 0 | 0. | 0. | 1594 |
| 92.6 | 15 | 4.241E-09 | 1.520E-08 | 1601 |
| 93.6 | 0 | 0. | 0. | 1603 |
| 94.6 | 156 | 4.390E-08 | 1.580E-07 | 1604 |
| 95.6 | 324 | 9.116E-08 | 3.282E-07 | 1606 |
| 96.6 | 760 | 2.136E-07 | 7.689E-07 | 1608 |
| 97.6 | 1373 | 3.854E-07 | 1.389E-06 | 1610 |
| 98.6 | 670 | 1.883E-07 | 6.778E-07 | 1611 |
| 99.6 | 0 | 0. | 0. | 1613 |

CROSSWIND INTEGRATED= 2.603E-05 SEC/SQ.M 9.372E-05 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 88.6 | 0 | 0. | 0. | 1594 |
| 89.6 | 747 | 5.621E-07 | 1.686E-06 | 1596 |
| 90.6 | 381 | 2.868E-07 | 8.605E-07 | 1597 |
| 91.6 | 466 | 3.508E-07 | 1.052E-06 | 1599 |
| 92.6 | 76 | 5.772E-08 | 1.732E-07 | 1601 |
| 93.6 | 0 | 0. | 0. | 1603 |
| 94.6 | 168 | 1.270E-07 | 3.810E-07 | 1604 |
| 95.6 | 395 | 2.975E-07 | 8.924E-07 | 1606 |
| 96.6 | 2273 | 1.709E-06 | 5.126E-06 | 1608 |
| 97.6 | 2868 | 2.157E-06 | 6.471E-06 | 1610 |
| 98.6 | 3860 | 2.903E-06 | 8.709E-06 | 1611 |
| 99.6 | 2868 | 2.157E-06 | 6.471E-06 | 1613 |
| 100.6 | 4158 | 3.127E-06 | 9.380E-06 | 1615 |
| 101.6 | 1621 | 1.219E-06 | 3.658E-06 | 1617 |
| 102.6 | 388 | 2.922E-07 | 8.765E-07 | 1618 |

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 91.8 | 0 | 0. | 0. | 3201 |
| S | 92.8 | 11 | 3.207E-09 | 1.155E-08 | 3203 |
| | 93.8 | 396 | 1.114E-07 | 4.012E-07 | 3205 |
| | 94.8 | 1124 | 3.159E-07 | 1.137E-06 | 3206 |
| | 95.8 | 1579 | 4.438E-07 | 1.598E-06 | 3208 |
| | 96.8 | 1243 | 3.492E-07 | 1.257E-06 | 3210 |
| E | 97.8 | 869 | 2.441E-07 | 8.789E-07 | 3212 |
| | 98.8 | 1544 | 4.338E-07 | 1.562E-06 | 3213 |
| | 99.8 | 329 | 9.261E-08 | 3.334E-07 | 3215 |
| 2 | 100.8 | 355 | 9.982E-08 | 3.594E-07 | 3217 |
| | 101.8 | 75 | 2.125E-08 | 7.649E-08 | 3218 |
| | 102.8 | 0 | 0. | 0. | 3220 |

CROSSWIND INTEGRATED= 1.185E-04 SEC/SQ.M 4.266E-04 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 82.0 | 1 | 3.526E-10 | 1.269E-09 | 4630 |
| | 84.0 | 2 | 7.051E-10 | 2.538E-09 | 4620 |
| | 86.0 | 0 | 0. | 0. | 4610 |
| | 88.0 | 0 | 0. | 0. | 4610 |
| 1 | 90.0 | 0 | 0. | 0. | 4610 |
| | 92.0 | 0 | 0. | 0. | 4620 |
| | 94.0 | 6 | 1.763E-09 | 6.346E-09 | 4620 |
| | 96.0 | 0 | 0. | 0. | 4620 |
| 6 | 98.0 | 13 | 3.878E-09 | 1.396E-08 | 4660 |
| 5 | 100.0 | 209 | 5.876E-08 | 2.115E-07 | 4690 |
| | 102.0 | 0 | 0. | 0. | 4710 |

CROSSWIND INTEGRATED= 1.071E-05 SEC/SQ.M 3.854E-05 1/M

| | | | | |
|---|---|---|---|---|
| 103.6 | 0 | 0. | 0. | 1620 |
| 104.5 | 0 | 0. | 0. | 1622 |

CROSSWIND INTEGRATED= 4.287E-04 SEC/SQ.M 1.286E-03 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 72.7 | 127 | 9.598E-08 | 2.879E-07 | 3168 |
| E | 73.7 | 159 | 1.201E-07 | 3.602E-07 | 3170 |
| E | 74.7 | 246 | 1.851E-07 | 5.554E-07 | 3172 |
| | 75.7 | 295 | 2.221E-07 | 6.662E-07 | 3173 |
| 3 | 76.8 | 102 | 7.670E-08 | 2.301E-07 | 3175 |
| | 77.8 | 0 | 3.213E-10 | 9.638E-10 | 3177 |
| E | 78.8 | 1 | 1.446E-09 | 4.337E-09 | 3179 |
| E | 79.8 | 5 | 4.177E-09 | 1.253E-08 | 3180 |
| E | 80.8 | 2 | 2.008E-09 | 6.024E-09 | 3182 |
| | 81.8 | 327 | 2.462E-07 | 7.385E-07 | 3184 |
| | 82.8 | 231 | 1.739E-07 | 5.217E-07 | 3185 |
| | 83.8 | 0 | 0. | 0. | 3187 |
| | 84.8 | 150 | 1.128E-07 | 3.385E-07 | 3189 |
| | 85.8 | 210 | 1.566E-07 | 4.759E-07 | 3191 |
| | 86.8 | 57 | 4.297E-08 | 1.289E-07 | 3192 |
| | 87.8 | 185 | 1.394E-07 | 4.181E-07 | 3194 |
| | 88.8 | 605 | 4.550E-07 | 1.365E-06 | 3196 |
| | 89.8 | 444 | 3.345E-07 | 1.004E-06 | 3198 |
| | 90.8 | 498 | 3.747E-07 | 1.124E-06 | 3199 |
| | 91.8 | 1214 | 9.128E-07 | 2.738E-06 | 3201 |
| S | 92.8 | 460 | 3.463E-07 | 1.039E-06 | 3203 |
| | 93.8 | 1050 | 7.899E-07 | 2.370E-06 | 3205 |
| | 94.8 | 2082 | 1.566E-06 | 4.697E-06 | 3206 |
| | 95.8 | 3226 | 2.426E-06 | 7.278E-06 | 3208 |
| | 96.8 | 3024 | 2.274E-06 | 6.823E-06 | 3210 |
| | 97.8 | 1073 | 8.068E-07 | 2.420E-06 | 3212 |
| | 98.8 | 1095 | 8.237E-07 | 2.471E-06 | 3213 |
| | 99.8 | 669 | 5.032E-07 | 1.510E-06 | 3215 |
| | 100.8 | 509 | 3.827E-07 | 1.148E-06 | 3217 |
| | 101.8 | 25 | 1.887E-08 | 5.662E-08 | 3218 |
| | 102.8 | 0 | 7.229E-10 | 2.169E-09 | 3220 |
| | 103.8 | 2 | 1.767E-09 | 5.301E-09 | 3222 |
| | 104.8 | 1 | 1.365E-09 | 4.096E-09 | 3224 |
| | 105.8 | 5 | 4.177E-09 | 1.253E-08 | 3225 |
| | 106.8 | 0 | 0. | 0. | 3227 |

CROSSWIND INTEGRATED= 7.617E-04 SEC/SQ.M 2.285E-03 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 82.0 | 42 | 3.190E-08 | 9.571E-08 | 4630 |
| | 84.0 | 33 | 2.555E-08 | 7.664E-08 | 4620 |
| 5 | 86.0 | 139 | 1.047E-07 | 3.140E-07 | 4610 |
| 4 | 88.0 | 52 | 3.967E-08 | 1.190E-07 | 4610 |
| 1 | 90.0 | 90 | 6.793E-08 | 2.038E-07 | 4610 |
| | 92.0 | 175 | 1.322E-07 | 3.966E-07 | 4620 |
| | 94.0 | 215 | 1.619E-07 | 4.856E-07 | 4620 |
| 4 | 96.0 | 327 | 2.459E-07 | 7.378E-07 | 4620 |
| 6 | 98.0 | 208 | 1.569E-07 | 4.708E-07 | 4660 |
| 5 | 100.0 | 373 | 2.805E-07 | 8.416E-07 | 4690 |
| | 102.0 | 50 | 3.826E-08 | 1.148E-07 | 4710 |
| 4 | 104.0 | 0 | 5.415E-10 | 1.625E-09 | 4770 |
| 5 | 106.0 | 1 | 1.460E-09 | 4.379E-09 | 4810 |
| | 108.0 | 1 | 8.947E-10 | 2.684E-09 | 4870 |
| 6 | 110.0 | 0 | 4.709E-10 | 1.413E-09 | 4920 |
| | 112.0 | 8 | 6.710E-09 | 2.013E-08 | 4990 |
| | 114.0 | 1 | 1.460E-09 | 4.379E-09 | 5080 |
| | 116.0 | 0 | 0. | 0. | 5020 |
| 8 | 118.0 | 2 | 1.530E-09 | 4.591E-09 | 5100 |
| 4 | 120.0 | 4 | 3.179E-09 | 9.536E-09 | 5130 |

CROSSWIND INTEGRATED= 2.111E-04 SEC/SQ.M 6.333E-04 1/M

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TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| C 82.0 | 0 | 0. | 0. | 6490 |
| A 84.0 | 8 | 2.350E-09 | 8.461E-09 | 6500 |
| S 86.0 | 93 | 2.621E-08 | 9.434E-08 | 6500 |
| E 88.0 | 142 | 4.007E-08 | 1.443E-07 | 6480 |
| S 90.0 | 181 | 5.089E-08 | 1.832E-07 | 6500 |
| S 92.0 | 0 | 0. | 0. | 6490 |
| E 94.0 | 101 | 2.844E-08 | 1.024E-07 | 6500 |
| E 96.0 | 285 | 8.027E-08 | 2.890E-07 | 6510 |
| S 98.0 | 538 | 1.511E-07 | 5.442E-07 | 6520 |
| S 100.0 | 538 | 1.512E-07 | 5.445E-07 | 6560 |
| S 102.0 | 383 | 1.076E-07 | 3.875E-07 | 6610 |
| S 104.0 | 3 | 9.402E-10 | 3.385E-09 | 6650 |
| S 106.0 | 0 | 0. | 0. | 6720 |

CROSSWIND INTEGRATED= 1.459E-04 SEC/SQ.M 5.251E-04 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| C 82.0 | 0 | 0. | 0. | 6490 |
| A 84.0 | 56 | 4.262E-08 | 1.278E-07 | 6500 |
| S 86.0 | 192 | 1.448E-07 | 4.364E-07 | 6500 |
| E 88.0 | 15 | 1.177E-08 | 3.532E-08 | 6480 |
| S 90.0 | 571 | 4.297E-07 | 1.289E-06 | 6500 |
| S 92.0 | 6 | 4.709E-09 | 1.413E-08 | 6490 |
| E 94.0 | 195 | 1.472E-07 | 4.415E-07 | 6500 |
| E 96.0 | 287 | 2.164E-07 | 6.491E-07 | 6510 |
| S 98.0 | 419 | 3.153E-07 | 9.458E-07 | 6520 |
| S 100.0 | 320 | 2.411E-07 | 7.233E-07 | 6560 |
| S 102.0 | 201 | 1.519E-07 | 4.556E-07 | 6610 |
| S 104.0 | 1 | 1.366E-09 | 4.097E-09 | 6650 |
| S 106.0 | 0 | 3.767E-10 | 1.130E-09 | 6720 |
| E 108.0 | 0 | 5.180E-10 | 1.554E-09 | 6800 |
| S 110.0 | 1 | 8.005E-10 | 2.402E-09 | 7000 |
| S 112.0 | 0 | 5.886E-10 | 1.766E-09 | 7300 |
| 114.0 | 0 | 0. | 0. | 7210 |

CROSSWIND INTEGRATED= 3.892E-04 SEC/SQ.M 1.168E-03 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 3.6 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 91.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 95.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TOWER DATA FOLLOW....

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC U= 3.6 M/SEC AT111M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 0 | 0. | 0. | 3200 |

TOWER DATA FOLLOW....

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC U= 3.0 M/SEC AT 56M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 0 | 0. | 0. | 3200 |

GROUND LEVEL SAMPLING 400M TO 1200M: SAMPLING ON ONE TOWER AT 3200M. NO ZNS OBSERVED ON 400M, 800M OR 1200M ARCS.. ZNS PLUME LIKELY OFF NORTH EDGE OF 7000M AND 1200M ARCS.
FLUORESCEIN DISPERSAL FOR ONLY 4 MIN. THUS, SIGNIFICANCE OF FLUORESCEIN MEASUREMENTS IS MINIMAL.

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 78.0 | 0 | 0. | 0. | 400 |
| CROSSWIND INTEGRATED= | | 0. SEC/SQ.M | 0. 1/M | |

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 86.0 | 7 | 5.986E-08 | 2.574E-07 | 400 |
| 90.0 | 11 | 8.481E-08 | 3.647E-07 | 400 |
| 94.0 | 0 | 7.483E-09 | 3.218E-08 | 400 |
| 98.0 | 15 | 1.172E-07 | 5.041E-07 | 400 |
| 102.0 | 2 | 2.162E-08 | 9.295E-08 | 400 |
| 106.0 | 3 | 2.993E-08 | 1.287E-07 | 400 |
| 110.0 | 3 | 2.411E-08 | 1.037E-07 | 400 |
| 9 114.0 | 14 | 1.122E-07 | 4.826E-07 | 400 |
| 118.0 | 7 | 5.986E-08 | 2.574E-07 | 400 |
| B 122.0 | 5 | 3.991E-08 | 1.716E-07 | 400 |
| CROSSWIND INTEGRATED= | | 1.556E-05 SEC/SQ.M | 6.689E-05 1/M | |

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 77.0 | 0 | 0. | 0. | 771 |
| CROSSWIND INTEGRATED= | | 0. SEC/SQ.M | 0. 1/M | |

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.1 | 5 | 3.857E-08 | 1.659E-07 | 806 |
| 99.1 | 0 | 0. | 0. | 809 |
| 101.1 | 0 | 0. | 0. | 813 |
| 103.0 | 2 | 2.204E-08 | 9.478E-08 | 816 |
| C 105.0 | 8 | 6.612E-08 | 2.843E-07 | 820 |
| 106.9 | 27 | 2.149E-07 | 9.241E-07 | 823 |
| 108.8 | 0 | 0. | 0. | 826 |
| 110.7 | 0 | 5.510E-09 | 2.369E-08 | 829 |
| E 112.6 | 7 | 5.510E-08 | 2.369E-07 | 833 |
| 114.5 | 22 | 1.736E-07 | 7.464E-07 | 836 |
| 116.4 | 4 | 3.306E-08 | 1.422E-07 | 839 |
| 118.3 | 0 | 0. | 0. | 842 |
| 120.2 | 5 | 3.857E-08 | 1.659E-07 | 845 |
| 122.1 | 13 | 1.075E-07 | 4.620E-07 | 848 |
| B 124.0 | 1 | 1.102E-08 | 4.739E-08 | 851 |
| CROSSWIND INTEGRATED= | | 2.123E-05 SEC/SQ.M | 9.127E-05 1/M | |

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.6 | 0 | 0. | 0. | 1610 |
| 98.6 | 3 | 8.123E-10 | 3.330E-09 | 1611 |
| 99.6 | 18 | 4.874E-09 | 1.998E-08 | 1613 |
| 100.6 | 0 | 0. | 0. | 1615 |
| 101.6 | 0 | 0. | 0. | 1617 |
| 102.6 | 212 | 5.688E-08 | 2.331E-07 | 1618 |
| 103.6 | 0 | 0. | 0. | 1620 |
| 104.5 | 748 | 2.023E-07 | 8.293E-07 | 1622 |
| 105.5 | 78 | 2.112E-08 | 8.659E-08 | 1623 |
| 106.5 | 456 | 1.235E-07 | 5.062E-07 | 1625 |
| 107.5 | 222 | 6.011E-08 | 2.465E-07 | 1627 |
| 108.5 | 474 | 1.283E-07 | 5.262E-07 | 1628 |
| 109.5 | 315 | 8.529E-08 | 3.497E-07 | 1630 |
| 110.4 | 916 | 2.478E-07 | 1.016E-06 | 1632 |
| 111.4 | 556 | 1.503E-07 | 6.161E-07 | 1633 |
| 112.4 | 237 | 6.417E-08 | 2.631E-07 | 1635 |
| 113.4 | 0 | 0. | 0. | 1637 |
| CROSSWIND INTEGRATED= | | 3.178E-05 SEC/SQ.M | 1.303E-04 1/M | |

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| D 98.6 | 9 | 7.086E-08 | 3.047E-07 | 1611 |
| 99.6 | 13 | 1.036E-07 | 4.453E-07 | 1613 |
| 100.6 | 4 | 3.089E-08 | 1.328E-07 | 1615 |
| 101.6 | 0 | 7.268E-09 | 3.125E-08 | 1617 |
| 102.6 | 18 | 1.417E-07 | 6.094E-07 | 1618 |
| 103.6 | 7 | 5.996E-08 | 2.578E-07 | 1620 |
| 104.5 | 5 | 4.542E-08 | 1.953E-07 | 1622 |
| 105.5 | 3 | 2.725E-08 | 1.172E-07 | 1623 |
| 106.5 | 5 | 3.997E-08 | 1.719E-07 | 1625 |
| 107.5 | 4 | 3.452E-08 | 1.484E-07 | 1627 |
| 108.5 | 0 | 0. | 0. | 1628 |
| 109.5 | 0 | 0. | 0. | 1630 |
| 110.4 | 1 | 1.454E-08 | 6.250E-08 | 1632 |
| 111.4 | 1 | 9.045E-09 | 3.906E-08 | 1633 |
| 112.4 | 0 | 1.817E-09 | 7.813E-09 | 1635 |
| 113.4 | 0 | 7.268E-09 | 3.125E-08 | 1637 |
| 114.4 | 96 | 7.450E-07 | 3.203E-06 | 1638 |
| 115.3 | 2047 | 1.575E-05 | 6.774E-05 | 1640 |
| 116.3 | 446 | 3.434E-06 | 1.477E-05 | 1641 |
| 117.3 | 125 | 9.630E-07 | 4.141E-06 | 1643 |
| 118.2 | 14 | 1.145E-07 | 4.922E-07 | 1644 |
| 119.2 | 0 | 0. | 0. | 1646 |
| CROSSWIND INTEGRATED= | | 5.929E-04 SEC/SQ.M | 2.550E-03 1/M | |

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TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 89.8 | 0 | 0. | 0. | 3196 |
| 90.8 | 0 | 0. | 0. | 3199 |
| 91.8 | 81 | 2.199E-08 | 9.014E-08 | 3201 |
| 92.8 | 221 | 5.979E-08 | 2.451E-07 | 3203 |
| 93.8 | 42 | 1.157E-08 | 4.744E-08 | 3205 |
| 94.8 | 129 | 3.510E-08 | 1.439E-07 | 3206 |
| 95.8 | 0 | 0. | 0. | 3208 |
| H 96.8 | 209 | 5.670E-08 | 2.325E-07 | 3210 |
| H 97.8 | 256 | 6.943E-08 | 2.847E-07 | 3212 |
| H 98.8 | 138 | 3.742E-08 | 1.534E-07 | 3213 |
| 99.8 | 124 | 3.355E-08 | 1.376E-07 | 3215 |
| 100.8 | 346 | 9.373E-08 | 3.843E-07 | 3217 |
| E 101.8 | 368 | 9.952E-08 | 4.080E-07 | 3218 |
| 102.8 | 406 | 1.099E-07 | 4.507E-07 | 3220 |
| 103.8 | 498 | 1.346E-07 | 5.519E-07 | 3222 |
| 104.8 | 402 | 1.086E-07 | 4.460E-07 | 3224 |
| 105.8 | 1805 | 4.879E-07 | 2.001E-06 | 3225 |
| 106.8 | 1391 | 3.761E-07 | 1.542E-06 | 3227 |
| 107.8 | 1606 | 4.347E-07 | 1.782E-06 | 3229 |
| 3 108.8 | 204 | 5.516E-08 | 2.262E-07 | 3230 |
| 109.7 | 2022 | 5.466E-07 | 2.241E-06 | 3232 |
| 110.7 | 2675 | 7.232E-07 | 2.965E-06 | 3233 |
| 111.7 | 2564 | 6.931E-07 | 2.842E-06 | 3235 |
| 112.7 | 1073 | 2.901E-07 | 1.189E-06 | 3237 |
| 113.7 | 154 | 4.166E-08 | 1.708E-07 | 3238 |
| 114.6 | 214 | 5.786E-08 | 2.372E-07 | 3240 |
| 2 115.6 | 134 | 3.626E-08 | 1.487E-07 | 3241 |
| 116.6 | 15 | 4.243E-09 | 1.740E-08 | 3243 |
| 117.6 | 0 | 0. | 0. | 3245 |

CROSSWIND INTEGRATED= 2.583E-04 SEC/SQ.M 1.059E-03 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 36 | 1.029E-08 | 4.219E-08 | 4630 |
| 84.0 | 92 | 2.488E-08 | 1.020E-07 | 4620 |
| 86.0 | 70 | 1.911E-08 | 7.835E-08 | 4610 |
| 88.0 | 120 | 3.245E-08 | 1.331E-07 | 4610 |
| 90.0 | 103 | 2.783E-08 | 1.145E-07 | 4610 |
| 3 92.0 | 74 | 2.137E-08 | 8.762E-08 | 4620 |
| 3 94.0 | 458 | 1.239E-07 | 5.081E-07 | 4620 |
| 3 96.0 | 33 | 9.046E-09 | 3.709E-08 | 4620 |
| 2 98.0 | 23 | 6.219E-09 | 2.550E-08 | 4660 |
| C 100.0 | 759 | 2.052E-07 | 8.414E-07 | 4690 |
| 6 102.0 | 597 | 1.615E-07 | 6.620E-07 | 4710 |
| 4 104.0 | 43 | 1.176E-08 | 4.821E-08 | 4770 |
| 4 106.0 | 143 | 3.878E-08 | 1.590E-07 | 4810 |
| 4 108.0 | 34 | 9.272E-09 | 3.802E-08 | 4870 |
| E 110.0 | 28 | 7.689E-09 | 3.152E-08 | 4920 |
| 6 112.0 | 170 | 4.613E-08 | 1.891E-07 | 4990 |
| P 114.0 | 12 | 3.274E-09 | 1.344E-08 | 5060 |
| 4 116.0 | 0 | 0. | 0. | 5020 |

CROSSWIND INTEGRATED= 1.245E-04 SEC/SQ.M 5.104E-04 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 89.8 | 7 | 5.834E-08 | 2.509E-07 | 3198 |
| 90.8 | 3 | 2.629E-08 | 1.131E-07 | 3199 |
| 91.8 | 9 | 7.067E-08 | 3.039E-07 | 3201 |
| 92.8 | 5 | 4.355E-08 | 1.873E-07 | 3203 |
| 93.8 | 4 | 3.616E-08 | 1.555E-07 | 3205 |
| 94.8 | 6 | 5.095E-08 | 2.191E-07 | 3206 |
| 95.8 | 6 | 4.84[illegible]E-08 | 2.085E-07 | 3208 |
| H 96.8 | 1 | 1.315E-08 | 5.6[illegible]E-08 | 3210 |
| H 97.8 | 13 | 1.027E-07 | 4.417E-07 | 3212 |
| H 98.8 | 2 | 2.219E-08 | 9.540E-08 | 3213 |
| 99.8 | 5 | 4.602E-08 | 1.979E-07 | 3215 |
| 100.8 | 5 | 3.862E-08 | 1.661E-07 | 3217 |
| 101.8 | 4 | 3.123E-08 | 1.343E-07 | 3218 |
| 102.8 | 20 | 1.561E-07 | 6.713E-07 | 3220 |
| 103.8 | 5 | 4.602E-08 | 1.979E-07 | 3222 |
| 104.8 | 5 | 3.862E-08 | 1.661E-07 | 3224 |
| 105.8 | 7 | 5.588E-08 | 2.403E-07 | 3225 |
| 106.8 | 6 | 6.574E-08 | 2.827E-07 | 3227 |
| 107.8 | 7 | 5.568E-08 | 2.403E-07 | 3229 |
| 3 108.8 | 8 | 6.327E-08 | 2.721E-07 | 3230 |
| 109.7 | 7 | 6.081E-08 | 2.615E-07 | 3232 |
| 110.7 | 8 | 6.820E-08 | 2.933E-07 | 3233 |
| 111.7 | 19 | 1.456E-07 | 6.431E-07 | 3235 |
| 112.7 | 2 | 1.890E-08 | 8.127E-08 | 3237 |
| 113.7 | 53 | 4.109E-07 | 1.767E-06 | 3238 |
| 114.6 | 45 | 3.553E-07 | 1.519E-06 | 3240 |
| 115.6 | 111 | 8.546E-07 | 3.675E-06 | 3241 |
| C 116.6 | 0 | 0. | 0. | 3243 |
| C 117.6 | 77 | 5.999E-07 | 2.579E-06 | 3245 |
| C 118.6 | 184 | 1.422E-06 | 6.113E-06 | 3246 |
| 2 119.5 | 0 | 0. | 0. | 3248 |

CROSSWIND INTEGRATED= 2.763E-04 SEC/SQ.M 1.188E-03 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| B 82.0 | 7 | 5.761E-08 | 2.486E-07 | 4630 |
| 84.0 | 9 | 7.226E-08 | 3.107E-07 | 4620 |
| 86.0 | 7 | 6.022E-08 | 2.589E-07 | 4610 |
| 88.0 | 10 | 8.190E-08 | 3.522E-07 | 4610 |
| 90.0 | 20 | 1.542E-07 | 6.629E-07 | 4610 |
| 92.0 | 6 | 4.842E-08 | 2.082E-07 | 4620 |
| 94.0 | 14 | 1.084E-07 | 4.661E-07 | 4620 |
| 96.0 | 5 | 4.336E-08 | 1.864E-07 | 4620 |
| 98.0 | 7 | 5.761E-08 | 2.486E-07 | 4660 |
| 100.0 | 16 | 1.301E-07 | 5.593E-07 | 4690 |
| 6 102.0 | 7 | 5.540E-08 | 2.382E-07 | 4710 |
| 4 104.0 | 3 | 2.891E-08 | 1.243E-07 | 4770 |
| 4 106.0 | 20 | 1.590E-07 | 6.836E-07 | 4810 |
| 4 108.0 | 21 | 1.638E-07 | 7.043E-07 | 4870 |
| 4 110.0 | 52 | 4.047E-07 | 1.740E-06 | 4920 |
| 6 112.0 | 99 | 7.636E-07 | 3.283E-06 | 4990 |
| P 114.0 | 111 | 8.559E-07 | 3.698E-06 | 5060 |
| 4 116.0 | 80 | 6.191E-07 | 2.662E-06 | 5020 |
| 4 118.0 | 121 | 9.322E-07 | 4.008E-06 | 5100 |
| 4 120.0 | 41 | 3.160E-07 | 1.367E-06 | 5130 |
| 4 122.0 | 5 | 4.336E-08 | 1.864E-07 | 4830 |
| E 124.0 | 2 | 2.168E-08 | 9.322E-08 | 4660 |
| 4 126.0 | 2 | 2.168E-08 | 9.322E-08 | 4770 |
| 6 128.0 | 5 | 4.577E-08 | 1.968E-07 | 4900 |
| 6 130.0 | 9 | 6.985E-08 | 3.004E-07 | 4970 |

CROSSWIND INTEGRATED= 9.207E-04 SEC/SQ.M 3.959E-03 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| A 76.0 | 16 | 4.523E-09 | 1.854E-08 | 6280 |
| B 78.0 | 0 | 0. | 0. | 6300 |
| C 80.0 | 0 | 0. | 0. | 6400 |
| D 82.0 | 17 | 4.636E-09 | 1.901E-08 | 6490 |
| E 84.0 | 0 | 0. | 0. | 6500 |
| F 86.0 | 0 | 0. | 0. | 6500 |
| G 88.0 | 0 | 0. | 0. | 6480 |
| H 90.0 | 3 | 1.018E-09 | 4.172E-09 | 6500 |
| 92.0 | 4 | 1.131E-09 | 4.636E-09 | 6490 |
| 94.0 | 0 | 2.261E-10 | 9.272E-10 | 6500 |
| J 96.0 | 0 | 2.261E-10 | 9.272E-10 | 6510 |
| K 98.0 | 0 | 0. | 0. | 6520 |
| L 100.0 | 1 | 3.392E-10 | 1.391E-09 | 6560 |
| M 102.0 | 83 | 2.261E-08 | 9.272E-08 | 6610 |
| N 104.0 | 0 | 0. | 0. | 6550 |
| O 106.0 | 1 | 4.523E-10 | 1.854E-09 | 6720 |
| P 108.0 | 0 | 0. | 0. | 6800 |

CROSSWIND INTEGRATED= 8.033E-06 SEC/SQ.M 3.294E-05 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| A 76.0 | 3 | 2.674E-08 | 1.150E-07 | 6280 |
| B 78.0 | 1 | 1.445E-08 | 6.225E-08 | 6300 |
| C 80.0 | 2 | 1.734E-08 | 7.458E-08 | 6400 |
| D 82.0 | 3 | 2.674E-08 | 1.150E-07 | 6490 |
| E 84.0 | 2 | 2.096E-08 | 9.011E-08 | 6500 |
| F 86.0 | 8 | 6.263E-08 | 2.693E-07 | 6500 |
| G 88.0 | 0 | 7.226E-09 | 3.107E-08 | 6480 |
| H 90.0 | 3 | 2.312E-08 | 9.943E-08 | 6500 |
| 92.0 | 5 | 4.045E-08 | 1.761E-07 | 6490 |
| 94.0 | 1 | 7.949E-09 | 3.418E-08 | 6500 |
| J 96.0 | 4 | 3.469E-08 | 1.492E-07 | 6510 |
| K 98.0 | 1 | 1.516E-08 | 6.525E-08 | 6520 |
| L 100.0 | 8 | 3.107E-08 | 1.336E-07 | 6560 |
| M 102.0 | 3 | 2.529E-08 | 1.088E-07 | 6610 |
| N 104.0 | 5 | 3.902E-08 | 1.678E-07 | 6650 |
| O 106.0 | 3 | 2.601E-08 | 1.119E-07 | 6720 |
| P 108.0 | 2 | 1.857E-08 | 7.988E-08 | 6800 |
| Q 110.0 | 4 | 3.346E-08 | 1.460E-07 | 7000 |

CROSSWIND INTEGRATED= 1.077E-04 SEC/SQ.M 4.631E-04 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| A 91.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| A 91.0 | 11 | 8.672E-08 | 3.729E-07 | 12800 |
| B 92.0 | 3 | 2.366E-08 | 1.253E-07 | 12800 |
| C 93.0 | 12 | 9.394E-08 | 4.040E-07 | 12800 |
| D 94.0 | 16 | 1.301E-07 | 5.593E-07 | 12800 |
| E 95.0 | 10 | 7.734E-08 | 3.314E-07 | 12800 |
| F 96.0 | 6 | 4.818E-08 | 2.072E-07 | 12800 |
| G 97.0 | 4 | 3.211E-08 | 1.381E-07 | 12800 |
| H 98.0 | 1 | 1.132E-08 | 4.866E-08 | 12800 |

CROSSWIND INTEGRATED= 1.133E-04 SEC/SQ.M 4.873E-04 1/M

TOWER DATA FOLLOW....

TEST U90 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 115.6 | .2 | 52 | 1.427E-08 | 5.851E-08 | 3200 |
| 115.6 | .4 | 62 | 1.697E-08 | 6.958E-08 | 3200 |
| 115.6 | .8 | 166 | 5.053E-08 | 2.072E-07 | 3200 |
| 2 115.6 | 1.5 | 134 | 3.676E-08 | 1.467E-07 | 3200 |
| 115.6 | 3.6 | 88 | 2.391E-08 | 9.805E-08 | 3200 |
| 115.6 | 3.1 | 106 | 2.865E-08 | 1.175E-07 | 3200 |
| 115.6 | 6.2 | 165 | 4.442E-08 | 1.832E-07 | 3200 |
| 115.6 | 9.3 | 550 | 1.447E-07 | 6.396E-07 | 3200 |
| 115.6 | 12.4 | 556 | 1.505E-07 | 6.172E-07 | 3200 |
| 115.6 | 15.5 | 1670 | 4.514E-07 | 1.851E-06 | 3200 |
| 115.6 | 18.6 | 1607 | 4.344E-07 | 1.781E-06 | 3200 |
| 115.6 | 21.7 | 832 | 2.250E-07 | 9.227E-07 | 3200 |
| 115.6 | 24.8 | 862 | 2.332E-07 | 9.561E-07 | 3200 |
| 115.6 | 31.0 | 1276 | 3.451E-07 | 1.415E-06 | 3200 |
| 115.6 | 37.2 | 1270 | 3.435E-07 | 1.408E-06 | 3200 |
| 2 115.6 | 43.4 | 5903 | 1.596E-06 | 6.542E-06 | 3200 |
| 2 115.6 | 49.6 | 6167 | 2.207E-06 | 9.050E-06 | 3200 |
| 2 115.6 | 55.8 | 5470 | 1.481E-06 | 6.070E-06 | 3200 |
| 2 115.6 | 62.0 | 4813 | 1.301E-06 | 5.334E-06 | 3200 |

TOWER DATA FOLLOW....

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC U= 4.3 M/SEC AT 56M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 115.6 | .2 | 251 | 1.934E-06 | 8.316E-06 | 3200 |
| 115.6 | .4 | 11 | 8.792E-08 | 3.781E-07 | 3200 |
| 115.6 | .8 | 69 | 5.366E-07 | 2.307E-06 | 3200 |
| 115.6 | 1.5 | 111 | 8.546E-07 | 3.675E-06 | 3200 |
| 115.6 | 3.6 | 164 | 1.437E-06 | 6.092E-06 | 3200 |
| 115.6 | 3.1 | 211 | 1.624E-06 | 6.982E-06 | 3200 |
| 115.6 | 6.2 | 556 | 4.281E-06 | 1.841E-05 | 3200 |
| 115.6 | 9.3 | 480 | 3.694E-06 | 1.589E-05 | 3200 |
| 115.6 | 12.4 | 493 | 3.798E-06 | 1.633E-05 | 3200 |
| 115.6 | 15.5 | 623 | 4.799E-06 | 2.063E-05 | 3200 |
| 115.6 | 18.6 | 803 | 6.179E-06 | 2.657E-05 | 3200 |
| 115.6 | 21.7 | 1251 | 9.631E-06 | 4.141E-05 | 3200 |
| 115.6 | 24.8 | 1065 | 7.732E-06 | 3.325E-05 | 3200 |
| 115.6 | 31.0 | 325 | 2.564E-06 | 1.077E-05 | 3200 |
| 115.6 | 37.2 | 223 | 1.717E-06 | 7.385E-06 | 3200 |
| 2 115.6 | 43.4 | 33 | 2.547E-07 | 1.095E-06 | 3200 |
| 2 115.6 | 49.6 | 0 | 0. | 0. | 3200 |
| 2 115.6 | 55.8 | 0 | 0. | 0. | 3200 |
| 3 115.6 | 62.0 | 0 | 4.930E-09 | 2.120E-08 | 3200 |

1202861



U90

GROUND LEVEL SAMPLING 400M TO 12800M. ONE TOWER SAMPLING ONLY AT 3200M. 115.6 DEG.
NO ZINC SULFIDE OBSERVED ON 400M ARC. HEAVY DUST ON 12800M LEAVES UNCERTAINTIES IN ASSAY OF ZINC SULFIDE.
LARGE WIND DIRECTION SHEAR (BACKING) ABOVE 30M ELEVATION.

TEST 091 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| A 78.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 0. SEC/SQ.M 0. 1/M

TEST 091 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 0 | 0. | 0. | 400 |
| 110.0 | 6 | 5.765E-09 | 2.191E-08 | 400 |
| 114.0 | 144 | 1.201E-07 | 4.563E-07 | 400 |
| 118.0 | 77 | 6.422E-08 | 2.440E-07 | 400 |
| 122.0 | 33 | 2.819E-08 | 1.071E-07 | 400 |
| 126.0 | 173 | 1.444E-07 | 5.487E-07 | 400 |
| 130.0 | 241 | 2.011E-07 | 7.643E-07 | 400 |
| 134.0 | 754 | 6.290E-07 | 2.390E-06 | 400 |
| 138.0 | 19 | 1.603E-08 | 6.092E-08 | 400 |
| 142.0 | 7 | 6.035E-09 | 2.293E-08 | 400 |
| 146.0 | 0 | 3.333E-10 | 1.266E-09 | 400 |
| 150.0 | 0 | 0. | 0. | 400 |
| B 154.0 | 1 | 1.261E-09 | 4.792E-09 | 400 |

CROSSWIND INTEGRATED= 3.397E-05 SEC/SQ.M 1.291E-04 1/M

TEST 091 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.7 | 0 | 0. | 0. | 829 |
| 112.6 | 50 | 1.362E-08 | 5.585E-08 | 833 |
| 114.5 | 423 | 1.152E-07 | 4.722E-07 | 836 |
| 116.4 | 319 | 8.669E-08 | 3.554E-07 | 839 |
| A 118.3 | 966 | 2.625E-07 | 1.076E-06 | 842 |
| 120.2 | 733 | 1.994E-07 | 8.175E-07 | 845 |
| B 122.1 | 815 | 2.217E-07 | 9.089E-07 | 848 |
| 124.0 | 970 | 2.638E-07 | 1.082E-06 | 851 |
| 125.8 | 1262 | 3.430E-07 | 1.406E-06 | 854 |
| 127.7 | 2903 | 7.989E-07 | 3.234E-06 | 857 |
| 129.5 | 3354 | 9.115E-07 | 3.737E-06 | 859 |
| 131.4 | 2611 | 7.096E-07 | 2.909E-06 | 862 |
| 133.2 | 701 | 1.907E-07 | 7.819E-07 | 865 |
| 135.0 | 1112 | 3.022E-07 | 1.239E-06 | 867 |
| 136.8 | 1184 | 3.220E-07 | 1.320E-06 | 869 |
| 138.7 | 888 | 2.415E-07 | 9.901E-07 | 872 |
| 140.6 | 173 | 4.706E-08 | 1.929E-07 | 874 |
| 142.4 | 1139 | 3.096E-07 | 1.269E-06 | 876 |
| 144.2 | 1677 | 4.557E-07 | 1.869E-06 | 878 |
| 146.0 | 929 | 2.526E-07 | 1.036E-06 | 880 |
| 147.8 | 683 | 1.858E-07 | 7.616E-07 | 882 |
| 149.6 | 2192 | 5.957E-07 | 2.442E-06 | 884 |
| 151.4 | 200 | 5.449E-08 | 2.234E-07 | 886 |
| 153.2 | 0 | 0. | 0. | 887 |

CROSSWIND INTEGRATED= 1.907E-04 SEC/SQ.M 7.820E-04 1/M

TEST 091 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.7 | 0 | 0. | 0. | 829 |
| 112.6 | 0 | 2.985E-11 | 1.134E-10 | 833 |
| 114.5 | 190 | 1.591E-07 | 6.045E-07 | 836 |
| 116.4 | 412 | 3.441E-07 | 1.308E-06 | 839 |
| A 118.3 | 996 | 8.307E-07 | 3.156E-06 | 842 |
| 120.2 | 563 | 4.695E-07 | 1.784E-06 | 845 |
| B 122.1 | 423 | 3.531E-07 | 1.342E-06 | 848 |
| 124.0 | 552 | 4.605E-07 | 1.750E-06 | 851 |
| 125.8 | 996 | 8.307E-07 | 3.156E-06 | 854 |
| 127.7 | 1462 | 1.219E-06 | 4.631E-06 | 857 |
| 129.5 | 1175 | 9.799E-07 | 3.724E-06 | 859 |
| 131.4 | 1462 | 1.219E-06 | 4.631E-06 | 862 |
| 133.2 | 1392 | 1.161E-06 | 4.411E-06 | 865 |
| 135.0 | 2024 | 1.687E-06 | 6.412E-06 | 867 |
| 136.8 | 2701 | 2.251E-06 | 8.555E-06 | 870 |
| 138.7 | 2024 | 1.687E-06 | 6.412E-06 | 872 |
| 140.6 | 3679 | 3.066E-06 | 1.165E-05 | 874 |
| 142.4 | 3152 | 2.627E-06 | 9.984E-06 | 876 |
| 144.2 | 1748 | 1.457E-06 | 5.538E-06 | 878 |
| 146.0 | 2071 | 1.726E-06 | 6.559E-06 | 880 |
| 147.8 | 703 | 5.859E-07 | 2.226E-06 | 882 |
| 149.6 | 380 | 3.173E-07 | 1.206E-06 | 884 |
| 151.4 | 455 | 3.800E-07 | 1.444E-06 | 886 |
| 153.3 | 423 | 3.531E-07 | 1.342E-06 | 888 |
| 155.0 | 31 | 2.627E-08 | 9.981E-08 | 889 |
| 156.8 | 10 | 8.656E-09 | 3.289E-08 | 890 |
| 158.6 | 44 | 3.701E-08 | 1.406E-07 | 892 |
| 160.4 | 16 | 1.552E-08 | 5.898E-08 | 893 |
| 162.2 | 0 | 3.880E-10 | 1.474E-09 | 894 |

CROSSWIND INTEGRATED= 6.760E-04 SEC/SQ.M 2.569E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | C/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 101.6 | 0 | 0. | 0. | 1617 |
| | 102.6 | 6 | 1.633E-09 | 6.697E-09 | 1518 |
| | 103.6 | 0 | 0. | 0. | 1620 |
| | 104.5 | 0 | 0. | 0. | 1622 |
| | 105.5 | 19 | 4.900E-09 | 2.009E-08 | 1623 |
| | 106.5 | 111 | 3.022E-08 | 1.239E-07 | 1625 |
| | 107.5 | 102 | 2.777E-08 | 1.139E-07 | 1527 |
| | 108.5 | 60 | 1.633E-08 | 6.697E-08 | 1628 |
| | 109.5 | 24 | 6.534E-09 | 2.679E-08 | 1630 |
| | 110.4 | 42 | 1.143E-08 | 4.688E-08 | 1632 |
| | 111.4 | 69 | 1.878E-08 | 7.702E-08 | 1533 |
| | 112.4 | 228 | 6.207E-08 | 2.545E-07 | 1635 |
| | 113.4 | 282 | 7.677E-08 | 3.148E-07 | 1537 |
| | 114.4 | 486 | 1.323E-07 | 5.425E-07 | 1638 |
| | 115.3 | 596 | 1.625E-07 | 6.664E-07 | 1540 |
| | 116.3 | 1166 | 3.169E-07 | 1.299E-06 | 1641 |
| | 117.3 | 1304 | 3.545E-07 | 1.453E-06 | 1543 |
| E | 118.2 | 1511 | 4.108E-07 | 1.684E-06 | 1644 |
| S | 119.2 | 1830 | 4.974E-07 | 2.039E-06 | 1546 |
| | 120.2 | 2197 | 5.970E-07 | 2.448E-06 | 1647 |
| | 121.2 | 4012 | 1.090E-06 | 4.470E-06 | 1549 |
| | 122.1 | 3949 | 1.073E-06 | 4.400E-06 | 1650 |
| | 123.1 | 2067 | 5.619E-07 | 2.304E-06 | 1552 |
| | 124.1 | 3257 | 8.853E-07 | 3.630E-06 | 1653 |
| | 125.0 | 4661 | 1.267E-06 | 5.194E-06 | 1655 |
| | 126.0 | 4436 | 1.205E-06 | 4.942E-06 | 1656 |
| | 126.9 | 1577 | 4.288E-07 | 1.758E-06 | 1658 |
| | 127.8 | 2269 | 6.164E-07 | 2.528E-06 | 1659 |
| | 128.8 | 4246 | 1.154E-06 | 4.731E-06 | 1660 |
| | 129.7 | 5602 | 1.522E-06 | 6.242E-06 | 1662 |
| | 130.6 | 7558 | 2.054E-06 | 8.422E-06 | 1663 |
| | 131.5 | 4565 | 1.241E-06 | 5.086E-06 | 1664 |
| | 132.5 | 2894 | 7.865E-07 | 3.225E-06 | 1665 |
| | 133.5 | 4598 | 1.250E-06 | 5.123E-06 | 1667 |
| | 134.4 | 5740 | 1.560E-06 | 6.396E-06 | 1668 |
| | 135.4 | 3143 | 8.543E-07 | 3.503E-06 | 1669 |
| | 136.4 | 3077 | 8.363E-07 | 3.429E-06 | 1670 |
| | 137.3 | 2750 | 7.473E-07 | 3.064E-06 | 1672 |
| | 138.3 | 2437 | 6.624E-07 | 2.716E-06 | 1673 |
| | 139.3 | 2620 | 7.122E-07 | 2.920E-06 | 1674 |
| | 140.2 | 2786 | 7.571E-07 | 3.104E-06 | 1675 |
| I | 141.2 | 1571 | 4.271E-07 | 1.751E-06 | 1676 |
| | 142.2 | 2001 | 5.439E-07 | 2.230E-06 | 1677 |
| | 143.1 | 2404 | 6.534E-07 | 2.679E-06 | 1678 |
| | 144.1 | 859 | 2.336E-07 | 9.577E-07 | 1679 |
| | 145.1 | 904 | 2.458E-07 | 1.008E-06 | 1680 |
| | 146.0 | 910 | 2.475E-07 | 1.015E-06 | 1681 |
| | 146.9 | 631 | 1.715E-07 | 7.032E-07 | 1682 |
| | 147.9 | 730 | 1.985E-07 | 8.137E-07 | 1683 |
| | 148.8 | 763 | 2.074E-07 | 8.505E-07 | 1684 |
| | 149.7 | 700 | 1.903E-07 | 7.802E-07 | 1685 |
| | 150.7 | 285 | 7.759E-08 | 3.181E-07 | 1686 |
| | 151.6 | 252 | 6.860E-08 | 2.813E-07 | 1687 |
| 2 | 152.6 | 159 | 4.329E-08 | 1.775E-07 | 1688 |
| | 153.5 | 180 | 4.900E-08 | 2.009E-07 | 1688 |
| | 154.5 | 261 | 7.105E-08 | 2.913E-07 | 1689 |
| B | 155.4 | 733 | 1.993E-07 | 8.170E-07 | 1690 |

CROSSWIND INTEGRATED= 7.625E-04 SEC/SQ.M 3.126E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | C/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 111.4 | 0 | 0. | 0. | 1633 |
| | 112.4 | 0 | 0. | 0. | 1635 |
| | 113.4 | 3 | 3.149E-09 | 1.197E-08 | 1637 |
| | 114.4 | 72 | 6.004E-08 | 2.281E-07 | 1638 |
| | 115.3 | 50 | 4.193E-08 | 1.593E-07 | 1640 |
| | 116.3 | 69 | 5.807E-08 | 2.207E-07 | 1641 |
| | 117.3 | 90 | 7.578E-08 | 2.880E-07 | 1643 |
| E | 118.2 | 138 | 1.152E-07 | 4.376E-07 | 1644 |
| S | 119.2 | 201 | 1.683E-07 | 6.395E-07 | 1646 |
| | 120.2 | 563 | 4.695E-07 | 1.734E-06 | 1647 |
| | 121.2 | 799 | 6.663E-07 | 2.532E-06 | 1649 |
| | 122.1 | 1130 | 9.419E-07 | 3.579E-06 | 1650 |
| | 123.1 | 1366 | 1.139E-06 | 4.327E-06 | 1652 |
| | 124.1 | 1342 | 1.119E-06 | 4.252E-06 | 1653 |
| | 125.0 | 1484 | 1.237E-06 | 4.701E-06 | 1655 |
| | 126.0 | 1697 | 1.414E-06 | 5.374E-06 | 1656 |
| | 126.9 | 1579 | 1.316E-06 | 5.000E-06 | 1658 |
| | 127.8 | 2334 | 1.946E-06 | 7.394E-06 | 1659 |
| | 128.8 | 2689 | 2.241E-06 | 8.516E-06 | 1660 |
| | 129.7 | 2334 | 1.946E-06 | 7.394E-06 | 1662 |
| | 130.6 | 2760 | 2.300E-06 | 8.740E-06 | 1663 |
| | 131.5 | 3185 | 2.654E-06 | 1.009E-05 | 1664 |
| | 132.5 | 2476 | 2.064E-06 | 7.843E-06 | 1665 |
| | 133.5 | 2526 | 2.105E-06 | 8.000E-06 | 1667 |
| | 134.4 | 2774 | 2.312E-06 | 8.785E-06 | 1668 |
| | 135.4 | 3022 | 2.519E-06 | 9.571E-06 | 1669 |
| | 136.4 | 3270 | 2.725E-06 | 1.036E-05 | 1670 |
| | 137.3 | 3022 | 2.519E-06 | 9.571E-06 | 1672 |
| | 138.3 | 3071 | 2.560E-06 | 9.728E-06 | 1673 |
| | 139.3 | 2724 | 2.271E-06 | 8.628E-06 | 1674 |
| | 140.2 | 2675 | 2.229E-06 | 8.471E-06 | 1675 |
| | 141.2 | 2575 | 2.147E-06 | 8.157E-06 | 1676 |
| | 142.2 | 2476 | 2.064E-06 | 7.843E-06 | 1677 |
| | 143.1 | 2923 | 2.436E-06 | 9.256E-06 | 1678 |
| | 144.1 | 2476 | 2.064E-06 | 7.843E-06 | 1679 |
| | 145.1 | 2278 | 1.899E-06 | 7.214E-06 | 1680 |
| | 146.0 | 2327 | 1.940E-06 | 7.371E-06 | 1681 |
| | 146.9 | 2030 | 1.692E-06 | 6.429E-06 | 1682 |
| | 147.9 | 2079 | 1.733E-06 | 6.586E-06 | 1683 |
| | 148.8 | 1980 | 1.650E-06 | 6.272E-06 | 1684 |
| | 149.7 | 1434 | 1.196E-06 | 4.544E-06 | 1685 |
| | 150.7 | 1862 | 1.552E-06 | 5.896E-06 | 1686 |
| | 151.6 | 1862 | 1.552E-06 | 5.896E-06 | 1687 |
| | 152.6 | 1413 | 1.178E-06 | 4.477E-06 | 1688 |
| | 153.5 | 1366 | 1.139E-06 | 4.327E-06 | 1688 |
| | 154.5 | 634 | 5.285E-07 | 2.008E-06 | 1689 |
| B | 155.4 | 386 | 3.218E-07 | 1.223E-06 | 1690 |
| C | 157.0 | 185 | 1.545E-07 | 5.872E-07 | 1691 |
| E | 158.0 | 102 | 8.562E-08 | 3.254E-07 | 1692 |
| C | 159.0 | 48 | 4.035E-08 | 1.533E-07 | 1692 |
| E | 160.0 | 20 | 1.673E-08 | 6.358E-08 | 1693 |
| E | 161.0 | 7 | 6.496E-09 | 2.468E-08 | 1694 |
| E | 162.0 | 2 | 1.968E-09 | 7.480E-09 | 1694 |
| E | 163.0 | 0 | 7.874E-10 | 2.992E-09 | 1695 |
| E | 164.0 | 0 | 0. | 0. | 1695 |

CROSSWIND INTEGRATED= 1.856E-03 SEC/SQ.M 7.054E-03 1/M

1202863

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 100.8 | 0 | 0. | 0. | 3217 |
| | 101.8 | 55 | 1.513E-06 | 6.201E-08 | 3218 |
| | 102.8 | 5 | 1.551E-09 | 6.356E-09 | 3220 |
| | 103.8 | 141 | 3.839E-08 | 1.574E-07 | 3222 |
| | 104.8 | 49 | 1.357E-08 | 5.565E-08 | 3224 |
| | 105.8 | 184 | 5.009E-08 | 2.051E-07 | 3225 |
| | 106.8 | 211 | 5.740E-08 | 2.353E-07 | 3227 |
| | 107.8 | 419 | 1.140E-07 | 4.675E-07 | 3229 |
| | 108.8 | 316 | 8.610E-08 | 3.530E-07 | 3230 |
| | 109.7 | 660 | 1.796E-07 | 7.362E-07 | 3232 |
| 2 | 110.7 | 432 | 1.175E-07 | 4.816E-07 | 3233 |
| | 111.7 | 331 | 8.997E-08 | 3.689E-07 | 3235 |
| | 112.7 | 603 | 1.640E-07 | 6.726E-07 | 3237 |
| | 113.7 | 924 | 2.513E-07 | 1.030E-06 | 3238 |
| | 114.6 | 1360 | 3.696E-07 | 1.515E-06 | 3240 |
| E | 115.6 | 1291 | 3.483E-07 | 1.428E-06 | 3241 |
| | 116.6 | 2367 | 6.434E-07 | 2.638E-06 | 3243 |
| | 117.6 | 2349 | 6.384E-07 | 2.617E-06 | 3245 |
| | 118.6 | 3192 | 8.676E-07 | 3.557E-06 | 3246 |
| | 119.5 | 3361 | 9.133E-07 | 3.745E-06 | 3248 |
| | 120.5 | 3459 | 9.401E-07 | 3.854E-06 | 3249 |
| | 121.5 | 2450 | 6.659E-07 | 2.730E-06 | 3251 |
| | 122.4 | 3865 | 1.049E-06 | 4.301E-06 | 3252 |
| | 123.4 | 3243 | 8.815E-07 | 3.614E-06 | 3253 |
| | 124.4 | 2401 | 7.613E-07 | 3.121E-06 | 3255 |
| | 125.4 | 2694 | 7.322E-07 | 3.002E-06 | 3256 |
| F | 126.3 | 2414 | 6.562E-07 | 2.690E-06 | 3258 |
| | 127.3 | 2140 | 5.926E-07 | 2.430E-06 | 3259 |
| | 128.3 | 1933 | 5.255E-07 | 2.155E-06 | 3261 |
| | 129.3 | 1575 | 4.282E-07 | 1.755E-06 | 3262 |
| E | 130.3 | 1400 | 3.805E-07 | 1.560E-06 | 3263 |
| | 131.2 | 1235 | 3.359E-07 | 1.377E-06 | 3264 |
| | 132.2 | 1093 | 2.971E-07 | 1.218E-06 | 3266 |
| | 133.2 | 1342 | 3.649E-07 | 1.496E-06 | 3267 |
| | 134.2 | 1277 | 3.471E-07 | 1.423E-06 | 3268 |
| | 135.2 | 627 | 1.706E-07 | 6.996E-07 | 3270 |
| | 136.2 | 747 | 2.032E-07 | 8.332E-07 | 3271 |
| | 137.1 | 717 | 1.951E-07 | 7.998E-07 | 3272 |
| | 138.1 | 569 | 1.547E-07 | 6.344E-07 | 3273 |
| | 139.1 | 401 | 1.090E-07 | 4.469E-07 | 3274 |
| | 140.1 | 510 | 1.388E-07 | 5.692E-07 | 3276 |
| | 141.1 | 646 | 1.757E-07 | 7.203E-07 | 3277 |
| | 142.0 | 375 | 1.020E-07 | 4.182E-07 | 3278 |
| | 143.0 | 295 | 8.028E-08 | 3.291E-07 | 3279 |
| 4 | 144.0 | 224 | 6.039E-08 | 2.476E-07 | 3280 |
| | 145.0 | 355 | 9.657E-08 | 3.959E-07 | 3281 |
| | 146.0 | 165 | 4.499E-08 | 1.844E-07 | 3282 |
| | 146.9 | 138 | 3.762E-08 | 1.542E-07 | 3283 |
| | 147.9 | 249 | 6.797E-08 | 2.786E-07 | 3284 |
| | 148.9 | 242 | 6.593E-08 | 2.703E-07 | 3285 |
| | 149.9 | 105 | 2.870E-08 | 1.177E-07 | 3286 |
| | 150.9 | 169 | 4.615E-08 | 1.892E-07 | 3287 |
| | 151.8 | 265 | 7.213E-08 | 2.958E-07 | 3287 |
| | 152.8 | 149 | 4.072E-08 | 1.670E-07 | 3288 |
| B | 153.8 | 206 | 5.623E-08 | 2.306E-07 | 3289 |

CROSSWIND INTEGRATED= 8.802E-04 SEC/SQ.M 3.609E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 3 | 101.8 | 1 | 1.602E-09 | 6.089E-09 | 3216 |
| | 102.8 | 1 | 9.792E-10 | 3.721E-09 | 3220 |
| | 103.8 | 1 | 9.792E-10 | 3.721E-09 | 3222 |
| | 104.8 | 1 | 1.513E-09 | 5.751E-09 | 3224 |
| | 105.8 | 0 | 5.074E-10 | 1.928E-09 | 3225 |
| | 106.8 | 1 | 9.792E-10 | 3.721E-09 | 3227 |
| | 107.8 | 2 | 1.869E-09 | 7.104E-09 | 3229 |
| | 108.8 | 3 | 2.582E-09 | 9.810E-09 | 3230 |
| | 109.7 | 2 | 2.493E-09 | 9.472E-09 | 3232 |
| | 110.7 | 7 | 5.875E-09 | 2.233E-08 | 3233 |
| | 111.7 | 4 | 3.561E-09 | 1.353E-08 | 3235 |
| | 112.7 | 7 | 6.142E-09 | 2.334E-08 | 3237 |
| | 113.7 | 59 | 4.941E-08 | 1.877E-07 | 3238 |
| | 114.6 | 107 | 8.946E-08 | 3.400E-07 | 3240 |
| 5 | 115.6 | 197 | 1.642E-07 | 6.241E-07 | 3241 |
| | 116.6 | 286 | 2.390E-07 | 9.083E-07 | 3243 |
| | 117.6 | 329 | 2.746E-07 | 1.044E-06 | 3245 |
| | 118.6 | 304 | 2.564E-07 | 9.759E-07 | 3246 |
| | 119.5 | 511 | 4.260E-07 | 1.619E-06 | 3248 |
| | 120.5 | 786 | 6.574E-07 | 2.496E-06 | 3249 |
| | 121.5 | 783 | 6.530E-07 | 2.481E-06 | 3251 |
| | 122.4 | 940 | 7.838E-07 | 2.978E-06 | 3252 |
| | 123.4 | 1007 | 8.399E-07 | 3.192E-06 | 3253 |
| | 124.4 | 1209 | 1.008E-06 | 3.831E-06 | 3255 |
| | 125.4 | 1321 | 1.102E-06 | 4.186E-06 | 3256 |
| E | 126.3 | 1254 | 1.046E-06 | 3.973E-06 | 3258 |
| | 127.3 | 1187 | 9.894E-07 | 3.760E-06 | 3259 |
| | 128.3 | 1232 | 1.027E-06 | 3.902E-06 | 3261 |
| | 129.3 | 1052 | 8.773E-07 | 3.334E-06 | 3262 |
| 6 | 130.3 | 626 | 5.221E-07 | 1.984E-06 | 3263 |
| | 131.2 | 1030 | 8.586E-07 | 3.263E-06 | 3264 |
| | 132.2 | 985 | 8.212E-07 | 3.121E-06 | 3266 |
| | 133.2 | 1052 | 8.773E-07 | 3.334E-06 | 3267 |
| | 134.2 | 1187 | 9.894E-07 | 3.760E-06 | 3268 |
| | 135.2 | 985 | 8.212E-07 | 3.121E-06 | 3270 |
| | 136.2 | 1187 | 9.894E-07 | 3.760E-06 | 3271 |
| | 137.1 | 1097 | 9.147E-07 | 3.476E-06 | 3272 |
| | 138.1 | 1397 | 9.147E-07 | 3.476E-06 | 3273 |
| | 139.1 | 1344 | 1.120E-06 | 4.257E-06 | 3274 |
| | 140.1 | 1366 | 1.139E-06 | 4.328E-06 | 3276 |
| | 141.1 | 1120 | 9.334E-07 | 3.547E-06 | 3277 |
| | 142.0 | 1120 | 9.334E-07 | 3.547E-06 | 3278 |
| | 143.0 | 963 | 8.025E-07 | 3.050E-06 | 3279 |
| 4 | 144.0 | 1075 | 8.960E-07 | 3.405E-06 | 3280 |
| | 145.0 | 918 | 7.651E-07 | 2.907E-06 | 3281 |
| | 146.0 | 738 | 6.156E-07 | 2.339E-06 | 3282 |
| | 146.9 | 511 | 4.260E-07 | 1.619E-06 | 3283 |
| | 147.9 | 500 | 4.171E-07 | 1.585E-06 | 3284 |
| | 148.9 | 297 | 2.479E-07 | 9.421E-07 | 3285 |
| | 149.9 | 235 | 1.963E-07 | 7.459E-07 | 3286 |
| | 150.9 | 225 | 1.883E-07 | 7.154E-07 | 3287 |
| | 151.8 | 213 | 1.776E-07 | 6.749E-07 | 3287 |
| | 152.8 | 213 | 1.776E-07 | 6.749E-07 | 3288 |
| B | 153.8 | 174 | 1.455E-07 | 5.531E-07 | 3289 |

CROSSWIND INTEGRATED= 1.531E-03 SEC/SQ.M 5.818E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 100.0 | 0 | 0. | 0. | 4690 |
| Z 102.0 | 0 | 0. | 0. | 4710 |
| C 104.0 | 0 | 0. | 0. | 4770 |
| 9 106.0 | 10 | 2.956E-09 | 1.212E-08 | 4910 |
| E 108.0 | 64 | 1.751E-08 | 7.176E-08 | 4870 |
| 5 110.0 | 99 | 2.706E-08 | 1.109E-07 | 4920 |
| 112.0 | 521 | 1.418E-07 | 5.812E-07 | 4990 |
| 114.0 | 166 | 4.525E-08 | 1.855E-07 | 5080 |
| 116.0 | 607 | 1.651E-07 | 6.769E-07 | 5020 |
| 5 118.0 | 498 | 1.354E-07 | 5.551E-07 | 5100 |
| E 120.0 | 622 | 1.693E-07 | 6.940E-07 | 5130 |
| 6 122.0 | 711 | 1.934E-07 | 7.929E-07 | 4830 |
| E 124.0 | 300 | 8.163E-08 | 3.347E-07 | 4660 |
| E 126.0 | 194 | 5.285E-08 | 2.167E-07 | 4770 |
| E 128.0 | 160 | 4.366E-08 | 1.790E-07 | 4900 |
| 9 130.0 | 145 | 3.945E-08 | 1.617E-07 | 4970 |
| 4 132.0 | 202 | 5.491E-08 | 2.251E-07 | 4980 |
| 7 134.0 | 171 | 4.308E-08 | 1.356E-07 | 4990 |
| E 136.0 | 91 | 2.490E-08 | 1.021E-07 | 5000 |
| 5 138.0 | 88 | 2.379E-08 | 9.835E-08 | 5020 |
| E 140.0 | 41 | 1.137E-08 | 4.661E-08 | 5060 |
| L 142.0 | 36 | 1.000E-08 | 4.102E-08 | 5090 |
| E 144.0 | 29 | 7.958E-09 | 3.263E-08 | 5130 |
| 6 146.0 | 22 | 6.139E-09 | 2.517E-08 | 5190 |
| E 148.0 | 26 | 7.162E-09 | 2.937E-08 | 5240 |
| R 150.0 | 27 | 7.390E-09 | 3.030E-08 | 5300 |

CROSSWIND INTEGRATED= 2.260E-04 SEC/SQ.M 9.267E-04 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 9 106.0 | 0 | 1.253E-10 | 4.760E-10 | 4610 |
| E 108.0 | 0 | 4.593E-10 | 1.745E-09 | 4870 |
| 5 110.0 | 1 | 1.660E-09 | 6.307E-09 | 4920 |
| 112.0 | 14 | 1.207E-08 | 4.587E-08 | 4990 |
| 114.0 | 37 | 3.086E-08 | 1.173E-07 | 5080 |
| 116.0 | 140 | 1.170E-07 | 4.445E-07 | 5020 |
| 5 118.0 | 367 | 3.064E-07 | 1.164E-06 | 5100 |
| 9 120.0 | 630 | 5.256E-07 | 1.997E-06 | 5130 |
| 6 122.0 | 828 | 6.900E-07 | 2.622E-06 | 4830 |
| 9 124.0 | 426 | 3.557E-07 | 1.352E-06 | 4660 |
| 7 126.0 | 887 | 7.393E-07 | 2.810E-06 | 4770 |
| 128.0 | 1143 | 9.531E-07 | 3.622E-06 | 4900 |
| 9 130.0 | 709 | 5.914E-07 | 2.247E-06 | 4970 |
| 4 132.0 | 1242 | 1.035E-06 | 3.934E-06 | 4980 |
| 7 134.0 | 1104 | 9.202E-07 | 3.497E-06 | 4990 |
| 0 136.0 | 985 | 8.215E-07 | 3.122E-06 | 5000 |
| 5 138.0 | 867 | 7.229E-07 | 2.747E-06 | 5020 |
| 0 140.0 | 828 | 6.900E-07 | 2.622E-06 | 5060 |
| 9 142.0 | 650 | 5.421E-07 | 2.060E-06 | 5090 |
| E 144.0 | 282 | 2.352E-07 | 8.937E-07 | 5130 |
| 6 146.0 | 152 | 1.274E-07 | 4.842E-07 | 5190 |
| E 148.0 | 149 | 1.248E-07 | 4.743E-07 | 5240 |
| R 150.0 | 162 | 1.352E-07 | 5.139E-07 | 5300 |

CROSSWIND INTEGRATED= 1.681E-03 SEC/SQ.M 6.389E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 7 100.0 | 0 | 0. | 0. | 6560 |
| 6 102.0 | 0 | 2.274E-10 | 9.322E-10 | 6610 |
| 9 104.0 | 9 | 2.615E-09 | 1.072E-08 | 6550 |
| 7 106.0 | 114 | 3.115E-08 | 1.277E-07 | 6720 |
| E 108.0 | 138 | 3.752E-08 | 1.538E-07 | 6800 |
| 9 110.0 | 129 | 3.513E-08 | 1.440E-07 | 7000 |
| 8 112.0 | 197 | 5.377E-08 | 2.205E-07 | 7300 |
| 0 114.0 | 110 | 3.013E-08 | 1.235E-07 | 7210 |
| 0 116.0 | 323 | 8.799E-08 | 3.606E-07 | 7220 |
| 7 118.0 | 663 | 1.803E-07 | 7.393E-07 | 7190 |
| E 120.0 | 971 | 2.639E-07 | 1.082E-06 | 7150 |
| 122.0 | 1273 | 3.461E-07 | 1.419E-06 | 7120 |
| E 124.0 | 945 | 2.299E-07 | 9.425E-07 | 7100 |
| E 126.0 | 410 | 1.115E-07 | 4.573E-07 | 7100 |
| E 128.0 | 253 | 6.889E-08 | 2.825E-07 | 7100 |
| E 130.0 | 174 | 4.741E-08 | 1.944E-07 | 7130 |
| 7 132.0 | 107 | 2.933E-08 | 1.203E-07 | 7150 |
| E 134.0 | 95 | 2.592E-08 | 1.063E-07 | 7200 |
| E 136.0 | 86 | 2.342E-08 | 9.602E-08 | 7250 |
| 7 138.0 | 71 | 1.933E-08 | 7.924E-08 | 7300 |
| 0 140.0 | 17 | 4.889E-09 | 2.004E-08 | 7350 |
| S 142.0 | 10 | 2.842E-09 | 1.165E-08 | 7250 |
| 0 144.0 | 0 | 2.274E-10 | 9.322E-10 | 7110 |
| 7 146.0 | 15 | 4.093E-09 | 1.678E-08 | 7100 |

CROSSWIND INTEGRATED= 4.073E-04 SEC/SQ.M 1.670E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 7 100.0 | 0 | 3.288E-10 | 1.249E-09 | 6560 |
| 6 102.0 | 0 | 4.854E-10 | 1.844E-09 | 6610 |
| 9 104.0 | 0 | 4.593E-10 | 1.745E-09 | 6650 |
| 7 106.0 | 0 | 3.810E-10 | 1.448E-09 | 6720 |
| E 108.0 | 1 | 9.290E-10 | 3.530E-09 | 6800 |
| 9 110.0 | 10 | 8.940E-09 | 3.397E-08 | 7000 |
| 8 112.0 | 9 | 7.896E-09 | 3.001E-08 | 7300 |
| 0 114.0 | 19 | 1.599E-08 | 6.075E-08 | 7210 |
| 0 116.0 | 48 | 4.025E-08 | 1.530E-07 | 7220 |
| 7 118.0 | 228 | 1.900E-07 | 7.222E-07 | 7190 |
| E 120.0 | 156 | 1.300E-07 | 4.941E-07 | 7150 |
| 122.0 | 675 | 5.632E-07 | 2.140E-06 | 7120 |
| E 124.0 | 1051 | 8.763E-07 | 3.330E-06 | 7100 |
| E 126.0 | 854 | 7.119E-07 | 2.705E-06 | 7100 |
| 0 128.0 | 453 | 3.777E-07 | 1.435E-06 | 7100 |
| E 130.0 | 236 | 1.968E-07 | 7.479E-07 | 7130 |
| 7 132.0 | 135 | 1.130E-07 | 4.293E-07 | 7150 |
| E 134.0 | 255 | 2.133E-07 | 8.104E-07 | 7200 |
| E 136.0 | 492 | 4.105E-07 | 1.560E-06 | 7250 |
| 7 138.0 | 611 | 5.092E-07 | 1.935E-06 | 7300 |
| 0 140.0 | 223 | 1.859E-07 | 7.063E-07 | 7350 |
| S 142.0 | 67 | 5.591E-08 | 2.125E-07 | 7250 |
| 0 144.0 | 5 | 4.556E-09 | 1.731E-08 | 7110 |
| B 146.0 | 41 | 3.477E-08 | 1.321E-07 | 7100 |

CROSSWIND INTEGRATED= 1.162E-03 SEC/SQ.M 4.417E-03 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
GAS. SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 4.1 M/SEC AT 111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.0 | 0 | 0. | 0. | 12800 |
| 0 92.0 | 6 | 1.705E-09 | 6.992E-09 | 12800 |
| 1 93.0 | 5 | 1.478E-09 | 6.060E-09 | 12800 |
| 3 94.0 | 5 | 1.364E-09 | 5.593E-09 | 12800 |
| 4 95.0 | 2 | 7.958E-10 | 3.263E-09 | 12800 |
| 5 96.0 | 2 | 6.821E-10 | 2.797E-09 | 12800 |
| 97.0 | 20 | 5.457E-09 | 2.237E-08 | 12800 |
| 98.0 | 0 | 2.274E-10 | 9.322E-10 | 12800 |
| 99.0 | 0 | 0. | 0. | 12800 |
| 100.0 | 6 | 1.705E-09 | 6.992E-09 | 12800 |
| 101.0 | 23 | 6.480E-09 | 2.657E-08 | 12800 |
| 102.0 | 8 | 2.387E-09 | 9.788E-09 | 12800 |
| 103.0 | 0 | 0. | 0. | 12800 |
| 104.0 | 21 | 5.798E-09 | 2.377E-08 | 12800 |
| 105.0 | 2 | 7.958E-10 | 3.263E-09 | 12800 |
| 106.0 | 5 | 1.592E-09 | 6.526E-09 | 12800 |
| 107.0 | 32 | 8.754E-09 | 3.589E-08 | 12800 |
| 108.0 | 89 | 2.422E-08 | 9.926E-08 | 12800 |
| 109.0 | 41 | 1.126E-08 | 4.615E-08 | 12800 |
| 110.0 | 112 | 3.070E-08 | 1.259E-07 | 12800 |
| 111.0 | 44 | 1.216E-08 | 4.987E-08 | 12800 |
| 112.0 | 84 | 2.308E-08 | 9.462E-08 | 12800 |
| 5 113.0 | 56 | 1.535E-08 | 6.293E-08 | 12800 |
| 6 114.0 | 13 | 3.752E-09 | 1.538E-08 | 12800 |
| E 115.0 | 26 | 7.162E-09 | 2.937E-08 | 12800 |
| 3 116.0 | 28 | 7.844E-09 | 3.216E-08 | 12800 |
| 2 117.0 | 24 | 6.594E-09 | 2.703E-08 | 12800 |
| 6 118.0 | 56 | 1.546E-08 | 6.339E-08 | 12800 |
| 5 119.0 | 66 | 1.808E-08 | 7.411E-08 | 12800 |
| 3 120.0 | 98 | 2.683E-08 | 1.100E-07 | 12800 |
| E 121.0 | 108 | 2.944E-08 | 1.207E-07 | 12800 |
| 2 122.0 | 104 | 2.831E-08 | 1.161E-07 | 12800 |
| 5 123.0 | 74 | 2.012E-08 | 8.250E-08 | 12800 |
| 5 124.0 | 37 | 1.012E-08 | 4.148E-08 | 12800 |
| 9 125.0 | 10 | 2.956E-09 | 1.212E-08 | 12800 |
| 8 126.0 | 16 | 4.434E-09 | 1.818E-08 | 12800 |
| 9 127.0 | 3 | 9.095E-10 | 3.729E-09 | 12800 |
| 5 128.0 | 16 | 4.547E-09 | 1.864E-08 | 12800 |
| 9 129.0 | 0 | 0. | 0. | 12800 |
| 7 130.0 | 9 | 2.501E-09 | 1.025E-08 | 12800 |
| 3 131.0 | 17 | 4.889E-09 | 2.004E-08 | 12800 |
| 2 132.0 | 23 | 6.253E-09 | 2.564E-08 | 12800 |
| 0 133.0 | 0 | 0. | 0. | 12800 |
| 4 134.0 | 21 | 5.912E-09 | 2.424E-08 | 12800 |
| 0 135.0 | 0 | 0. | 0. | 12800 |
| 1 136.0 | 0 | 0. | 0. | 12800 |
| 6 137.0 | 7 | 2.046E-09 | 8.390E-09 | 12800 |
| 0 138.0 | 0 | 0. | 0. | 12800 |
| 8 139.0 | 0 | 0. | 0. | 12800 |
| 8 140.0 | 0 | 0. | 0. | 12800 |
| 7 141.0 | 0 | 0. | 0. | 12800 |
| 5 142.0 | 12 | 3.411E-09 | 1.398E-08 | 12800 |
| 3 143.0 | 14 | 3.979E-09 | 1.631E-08 | 12800 |
| 5 144.0 | 2 | 5.684E-10 | 2.331E-09 | 12800 |
| 9 145.0 | 2 | 6.821E-10 | 2.797E-09 | 12800 |
| 7 146.0 | 2 | 6.821E-10 | 2.797E-09 | 12800 |
| 4 147.0 | 6 | 1.819E-09 | 7.456E-09 | 12800 |
| 0 148.0 | 27 | 7.503E-09 | 3.076E-08 | 12800 |
| 7 149.0 | 0 | 2.274E-10 | 9.322E-10 | 12800 |
| 6 150.0 | 0 | 2.274E-10 | 9.322E-10 | 12800 |
| 0 151.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 6.562E-05 SEC/SQ.M 2.510E-04 1/M

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 3.8 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 91.0 | 0 | 0. | 0. | 12800 |
| 0 92.0 | 4 | 3.392E-09 | 1.289E-08 | 12800 |
| E 93.0 | 4 | 4.019E-09 | 1.527E-08 | 12800 |
| 94.0 | 5 | 4.723E-09 | 1.795E-08 | 12800 |
| 4 95.0 | 3 | 3.314E-09 | 1.259E-08 | 12800 |
| 5 96.0 | 9 | 8.090E-09 | 3.074E-08 | 12800 |
| 97.0 | 18 | 1.514E-08 | 5.751E-08 | 12800 |
| 4 98.0 | 6 | 5.271E-09 | 2.003E-08 | 12800 |
| 99.0 | 10 | 8.872E-09 | 3.372E-08 | 12800 |
| 4 100.0 | 12 | 1.044E-08 | 3.966E-08 | 12800 |
| 4 101.0 | 11 | 9.394E-09 | 3.570E-08 | 12800 |
| 9 102.0 | 20 | 1.696E-08 | 6.446E-08 | 12800 |
| 4 103.0 | 33 | 2.766E-08 | 1.051E-07 | 12800 |
| 104.0 | 40 | 3.392E-08 | 1.289E-07 | 12800 |
| 8 105.0 | 11 | 9.655E-09 | 3.669E-08 | 12800 |
| 5 106.0 | 64 | 5.350E-08 | 2.033E-07 | 12800 |
| 107.0 | 99 | 8.298E-08 | 3.153E-07 | 12800 |
| 4 108.0 | 134 | 1.117E-07 | 4.244E-07 | 12800 |
| 8 109.0 | 159 | 1.326E-07 | 5.037E-07 | 12800 |
| 110.0 | 149 | 1.247E-07 | 4.740E-07 | 12800 |
| 6 111.0 | 130 | 1.091E-07 | 4.145E-07 | 12800 |
| 4 112.0 | 108 | 9.081E-08 | 3.451E-07 | 12800 |
| 5 113.0 | 177 | 1.482E-07 | 5.632E-07 | 12800 |
| 6 114.0 | 195 | 1.613E-07 | 6.128E-07 | 12800 |
| C 115.0 | 162 | 1.352E-07 | 5.137E-07 | 12800 |
| 116.0 | 137 | 1.143E-07 | 4.343E-07 | 12800 |
| 117.0 | 115 | 9.603E-08 | 3.649E-07 | 12800 |
| 4 118.0 | 199 | 1.665E-07 | 6.327E-07 | 12800 |
| 5 119.0 | 218 | 1.821E-07 | 6.922E-07 | 12800 |
| 120.0 | 177 | 1.482E-07 | 5.632E-07 | 12800 |
| L 121.0 | 196 | 1.639E-07 | 6.227E-07 | 12800 |
| 122.0 | 224 | 1.874E-07 | 7.120E-07 | 12800 |
| 5 123.0 | 127 | 1.065E-07 | 4.046E-07 | 12800 |
| 5 124.0 | 137 | 1.143E-07 | 4.343E-07 | 12800 |
| 9 125.0 | 108 | 9.081E-08 | 3.451E-07 | 12800 |
| 8 126.0 | 99 | 8.298E-08 | 3.153E-07 | 12800 |
| 9 127.0 | 63 | 5.271E-08 | 2.003E-07 | 12800 |
| 5 128.0 | 80 | 6.733E-08 | 2.558E-07 | 12800 |
| 9 129.0 | 74 | 6.211E-08 | 2.360E-07 | 12800 |
| 7 130.0 | 72 | 6.054E-08 | 2.301E-07 | 12800 |
| 131.0 | 90 | 7.515E-08 | 2.856E-07 | 12800 |
| 132.0 | 83 | 6.994E-08 | 2.658E-07 | 12800 |
| 0 133.0 | 49 | 4.097E-08 | 1.557E-07 | 12800 |
| 134.0 | 69 | 5.819E-08 | 2.211E-07 | 12800 |
| 0 135.0 | 44 | 3.706E-08 | 1.408E-07 | 12800 |
| 2 136.0 | 0 | 0. | 0. | 12800 |
| 8 137.0 | 47 | 3.940E-08 | 1.497E-07 | 12800 |
| 0 138.0 | 21 | 1.774E-08 | 6.743E-08 | 12800 |
| C 139.0 | 0 | 4.958E-10 | 1.884E-09 | 12800 |
| 7 140.0 | 0 | 0. | 0. | 12800 |
| 7 141.0 | 45 | 3.784E-08 | 1.438E-07 | 12800 |
| 5 142.0 | 52 | 4.410E-08 | 1.676E-07 | 12800 |
| 1 143.0 | 56 | 4.723E-08 | 1.795E-07 | 12800 |
| 0 144.0 | 27 | 2.296E-08 | 8.726E-08 | 12800 |
| 9 145.0 | 28 | 2.375E-08 | 9.024E-08 | 12800 |
| 7 146.0 | 20 | 1.696E-08 | 6.446E-08 | 12800 |
| 4 147.0 | 15 | 1.253E-08 | 4.760E-08 | 12800 |
| E 148.0 | 11 | 9.916E-09 | 3.766E-08 | 12800 |
| 9 149.0 | 10 | 8.350E-09 | 3.173E-08 | 12800 |
| 4 150.0 | 6 | 5.271E-09 | 2.003E-08 | 12800 |
| 8 151.0 | 3 | 3.314E-09 | 1.259E-08 | 12800 |
| C 153.0 | 0 | 7.046E-10 | 2.677E-09 | 12800 |
| E 155.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 8.000E-04 SEC/SQ.M 3.040E-03 1/M

1202866



U91

TOWER DATA FOLLOW....

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC U= 4.1 M/SEC AT111M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 1 115.6 | .2 | 3313 | 3.568E-07 | 1.463E-06 | 3200 |
| 2 115.6 | .4 | 1332 | 3.622E-07 | 1.485E-06 | 3200 |
| 3 115.6 | .8 | 852 | 2.315E-07 | 9.493E-07 | 3200 |
| E 115.6 | 1.5 | 1281 | 3.443E-07 | 1.428E-06 | 3200 |
| 4 115.6 | 1.6 | 1131 | 3.075E-07 | 1.261E-06 | 3200 |
| 4 115.6 | 3.1 | 1144 | 3.110E-07 | 1.275E-06 | 3200 |
| 115.6 | 6.2 | 1985 | 5.396E-07 | 2.212E-06 | 3200 |
| 115.6 | 9.3 | 1916 | 5.208E-07 | 2.135E-06 | 3200 |
| 115.6 | 12.4 | 2968 | 6.067E-07 | 3.327E-06 | 3200 |
| 115.6 | 15.5 | 2248 | 6.109E-07 | 2.505E-06 | 3200 |
| 115.6 | 18.6 | 2975 | 8.044E-07 | 3.315E-06 | 3200 |
| 115.6 | 21.7 | 3898 | 1.059E-06 | 4.344E-06 | 3200 |
| 115.6 | 24.8 | 3458 | 9.399E-07 | 3.854E-06 | 3200 |
| 115.6 | 31.0 | 3750 | 1.019E-06 | 4.179E-06 | 3200 |
| 115.6 | 37.2 | 4038 | 1.096E-06 | 4.500E-06 | 3200 |
| 115.6 | 43.4 | 4923 | 1.338E-06 | 5.486E-06 | 3200 |
| 115.6 | 49.6 | 6160 | 1.674E-06 | 6.863E-06 | 3200 |
| 115.6 | 55.8 | 4561 | 1.245E-06 | 5.104E-06 | 3200 |
| 115.6 | 62.0 | 3273 | 8.896E-07 | 3.647E-06 | 3200 |

TOWER DATA FOLLOW....

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC U= 3.8 M/SEC AT 56M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 115.6 | .2 | 139 | 1.162E-07 | 4.414E-07 | 3200 |
| 115.6 | .4 | 35 | 2.982E-08 | 1.133E-07 | 3200 |
| 115.6 | .8 | 200 | 1.669E-07 | 6.343E-07 | 3200 |
| 5 115.6 | 1.5 | 197 | 1.642E-07 | 6.241E-07 | 3200 |
| 4 115.6 | 1.6 | 187 | 1.562E-07 | 5.937E-07 | 3200 |
| 4 115.6 | 3.1 | 158 | 1.322E-07 | 5.023E-07 | 3200 |
| 115.6 | 6.2 | 161 | 1.349E-07 | 5.125E-07 | 3200 |
| 115.6 | 9.3 | 113 | 9.481E-08 | 3.603E-07 | 3200 |
| 115.6 | 12.4 | 251 | 2.096E-07 | 7.966E-07 | 3200 |
| 115.6 | 15.5 | 225 | 1.883E-07 | 7.154E-07 | 3200 |
| 115.6 | 18.6 | 165 | 1.375E-07 | 5.226E-07 | 3200 |
| 115.6 | 21.7 | 254 | 2.123E-07 | 8.066E-07 | 3200 |
| 115.6 | 24.8 | 372 | 3.102E-07 | 1.179E-06 | 3200 |
| 115.6 | 31.0 | 447 | 3.725E-07 | 1.416E-06 | 3200 |
| 115.6 | 37.2 | 500 | 4.171E-07 | 1.585E-06 | 3200 |
| 115.6 | 43.4 | 500 | 4.171E-07 | 1.585E-06 | 3200 |
| 115.6 | 49.6 | 553 | 4.616E-07 | 1.754E-06 | 3200 |
| 115.6 | 55.8 | 553 | 4.616E-07 | 1.754E-06 | 3200 |
| 6 115.6 | 62.0 | 489 | 4.082E-07 | 1.551E-06 | 3200 |

GROUND LEVEL SAMPLING 400M TO 12800M; WITH POSSIBLE EXCEPTION OF FLUORESCEIN AT 12800M. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER. TRACER DISTRIBUTIONS EXTEND ABOVE TOP OF THE SINGLE SAMPLING TOWER. NO ZINC SULFIDE OBSERVED ON 400M, 800M OR 1600M ARCS

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
400M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 46.0 | 0 | 0. | 0. | 400 |
| CROSSWIND INTEGRATED= | | 0. SEC/SQ.M | 0. 1/M | |

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
400M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 400 |
| 94.0 | 0 | 1.334E-10 | 6.272E-10 | 400 |
| 98.0 | 10 | 6.338E-09 | 2.979E-08 | 400 |
| 102.0 | 17 | 1.074E-08 | 5.049E-08 | 400 |
| 106.0 | 40 | 2.495E-08 | 1.173E-07 | 400 |
| 110.0 | 9 | 5.738E-09 | 2.697E-08 | 400 |
| 6 114.0 | 0 | 0. | 0. | 400 |
| 118.0 | 0 | 0. | 0. | 400 |
| CROSSWIND INTEGRATED= | | 1.334E-06 SEC/SQ.M | 6.287E-06 1/M | |

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 77.0 | 0 | 0. | 0. | 771 |
| CROSSWIND INTEGRATED= | | 0. SEC/SQ.M | 0. 1/M | |

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.9 | 0 | 0. | 0. | 823 |
| 108.8 | 12 | 7.606E-09 | 3.575E-08 | 826 |
| 110.7 | 11 | 7.384E-09 | 3.471E-08 | 829 |
| 112.6 | 0 | 0. | 0. | 833 |
| 114.5 | 1 | 1.194E-09 | 5.611E-09 | 836 |
| 116.4 | 0 | 0. | 0. | 839 |
| 118.3 | 0 | 0. | 0. | 842 |
| CROSSWIND INTEGRATED= | | 4.444E-07 SEC/SQ.M | 2.089E-06 1/M | |

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
1600M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| N 73.4 | 0 | 0. | 0. | 1568 |
| CROSSWIND INTEGRATED= | | 0. SEC/SQ.M | 0. 1/M | |

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
1600M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 89.0 | 0 | 3.645E-10 | 1.713E-09 | 1595 |
| E 90.0 | 1 | 1.094E-09 | 5.140E-09 | 1596 |
| E 91.0 | 3 | 2.260E-09 | 1.062E-08 | 1598 |
| E 92.0 | 6 | 4.010E-09 | 1.885E-08 | 1600 |
| E 93.0 | 11 | 7.072E-09 | 3.324E-08 | 1602 |
| B 93.6 | 17 | 1.072E-08 | 5.037E-08 | 1603 |
| 94.6 | 35 | 2.165E-08 | 1.018E-07 | 1604 |
| 95.6 | 25 | 1.553E-08 | 7.298E-08 | 1606 |
| 96.6 | 70 | 4.323E-08 | 2.032E-07 | 1608 |
| 97.6 | 42 | 2.603E-08 | 1.223E-07 | 1610 |
| 98.6 | 55 | 3.448E-08 | 1.621E-07 | 1611 |
| 99.6 | 98 | 6.073E-08 | 2.854E-07 | 1613 |
| 100.6 | 143 | 8.843E-08 | 4.156E-07 | 1615 |
| 101.6 | 129 | 7.968E-08 | 3.745E-07 | 1617 |
| 102.6 | 216 | 1.336E-07 | 6.281E-07 | 1618 |
| 103.6 | 188 | 1.161E-07 | 5.456E-07 | 1620 |
| 104.5 | 202 | 1.249E-07 | 5.870E-07 | 1622 |
| 105.5 | 162 | 1.001E-07 | 4.705E-07 | 1623 |
| 106.5 | 169 | 1.045E-07 | 4.910E-07 | 1625 |
| 107.5 | 155 | 9.572E-08 | 4.499E-07 | 1627 |
| 108.5 | 143 | 8.843E-08 | 4.156E-07 | 1628 |
| 109.5 | 155 | 9.572E-08 | 4.499E-07 | 1630 |
| 110.4 | 10 | 6.780E-09 | 3.187E-08 | 1632 |
| 111.4 | 67 | 4.177E-08 | 1.963E-07 | 1633 |
| 112.4 | 18 | 1.115E-08 | 5.242E-08 | 1635 |
| 113.4 | 7 | 4.593E-09 | 2.159E-08 | 1637 |
| 114.4 | 0 | 4.374E-10 | 2.056E-09 | 1638 |
| 115.3 | 0 | 0. | 0. | 1640 |
| CROSSWIND INTEGRATED= | | 3.672E-05 SEC/SQ.M | 1.726E-04 1/M | |

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 111.7 | 0 | 0. | 0. | 3235 |
| 112.7 | 24 | 6.777E-09 | 3.660E-08 | 3237 |
| 113.7 | 0 | 0. | 0. | 3238 |
| 114.6 | 458 | 1.280E-07 | 6.910E-07 | 3240 |
| 115.6 | 328 | 9.169E-08 | 4.951E-07 | 3241 |
| 116.6 | 341 | 9.526E-08 | 5.145E-07 | 3243 |
| 117.6 | 335 | 9.368E-08 | 5.059E-07 | 3245 |
| 118.6 | 0 | 0. | 0. | 3246 |
| W 119.5 | 780 | 2.161E-07 | 1.178E-06 | 3248 |
| W 120.5 | 149 | 4.145E-08 | 2.239E-07 | 3249 |
| W 121.5 | 0 | 0. | 0. | 3251 |
| 122.4 | 14 | 3.987E-09 | 2.153E-08 | 3252 |
| 123.4 | 2 | 7.973E-10 | 4.305E-09 | 3253 |
| 124.4 | 8 | 2.392E-09 | 1.292E-08 | 3255 |
| 125.4 | 14 | 3.987E-09 | 2.153E-08 | 3256 |
| 126.3 | 0 | 0. | 0. | 3258 |
| 127.3 | 0 | 0. | 0. | 3259 |
| 128.3 | 2 | 7.973E-10 | 4.305E-09 | 3261 |
| 129.3 | 11 | 3.189E-09 | 1.722E-08 | 3262 |
| 130.3 | 31 | 8.770E-09 | 4.736E-08 | 3263 |
| 131.2 | 12 | 3.588E-09 | 1.937E-08 | 3264 |
| 132.2 | 0 | 0. | 0. | 3266 |

CROSSWIND INTEGRATED= 3.874E-05 SEC/SQ.M 2.092E-04 1/M

TEST U92 SEPTEMBER 26, 1969 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
5000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT111M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 4710 |
| T 104.0 | 0 | 0. | 0. | 4770 |
| 106.0 | 0 | 2.337E-10 | 1.262E-09 | 4810 |
| 108.0 | 0 | 0. | 0. | 4870 |
| 110.0 | 1 | 4.675E-10 | 2.524E-09 | 4920 |
| 112.0 | 46 | 1.297E-08 | 7.005E-08 | 4990 |
| 114.0 | 138 | 3.680E-08 | 2.095E-07 | 5080 |
| 116.0 | 96 | 2.746E-08 | 1.493E-07 | 5020 |
| 118.0 | 164 | 4.593E-08 | 2.480E-07 | 5100 |
| 120.0 | 235 | 6.579E-08 | 3.553E-07 | 5130 |
| 122.0 | 420 | 1.174E-07 | 6.342E-07 | 4930 |
| T 124.0 | 0 | 0. | 0. | 4660 |
| 126.0 | 0 | 2.337E-10 | 1.262E-09 | 4770 |
| C 128.0 | 0 | 0. | 0. | 4900 |
| 130.0 | 4 | 1.169E-09 | 6.311E-09 | 4970 |
| 132.0 | 0 | 0. | 0. | 4980 |

CROSSWIND INTEGRATED= 5.407E-05 SEC/SQ.M 2.920E-04 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 87.8 | 1 | 9.561E-10 | 4.494E-09 | 3194 |
| 88.8 | 0 | 2.572E-10 | 1.209E-09 | 3196 |
| 89.8 | 4 | 2.473E-09 | 1.162E-08 | 3198 |
| 90.8 | 3 | 2.143E-09 | 1.007E-08 | 3199 |
| 91.8 | 8 | 5.242E-09 | 2.464E-08 | 3201 |
| 92.8 | 3 | 2.143E-09 | 1.007E-08 | 3203 |
| 93.8 | 12 | 7.616E-09 | 3.580E-08 | 3205 |
| 94.8 | 22 | 1.414E-08 | 6.642E-08 | 3206 |
| 95.8 | 28 | 1.757E-08 | 8.259E-08 | 3208 |
| 96.8 | 41 | 2.549E-08 | 1.198E-07 | 3210 |
| 97.8 | 62 | 3.867E-08 | 1.818E-07 | 3212 |
| 98.8 | 85 | 5.252E-08 | 2.468E-07 | 3213 |
| 99.8 | 117 | 7.230E-08 | 3.398E-07 | 3215 |
| 100.8 | 203 | 1.257E-07 | 5.909E-07 | 3217 |
| 101.8 | 152 | 9.406E-08 | 4.421E-07 | 3219 |
| 102.8 | 393 | 2.431E-07 | 1.143E-06 | 3220 |
| 103.8 | 404 | 2.497E-07 | 1.174E-06 | 3222 |
| 104.8 | 351 | 2.167E-07 | 1.019E-06 | 3224 |
| 105.8 | 735 | 4.541E-07 | 2.134E-06 | 3225 |
| 106.8 | 917 | 5.662E-07 | 2.661E-06 | 3227 |
| 107.8 | 714 | 4.409E-07 | 2.072E-06 | 3229 |
| 108.8 | 895 | 5.530E-07 | 2.599E-06 | 3230 |
| 109.7 | 1165 | 7.192E-07 | 3.380E-06 | 3232 |
| 110.7 | 1277 | 7.884E-07 | 3.706E-06 | 3233 |
| 111.7 | 1165 | 7.192E-07 | 3.380E-06 | 3235 |
| 112.7 | 447 | 2.761E-07 | 1.297E-06 | 3237 |
| 113.7 | 75 | 4.659E-08 | 2.190E-07 | 3238 |
| 114.6 | 5 | 3.528E-09 | 1.658E-08 | 3240 |
| 115.6 | 1 | 6.528E-10 | 3.068E-09 | 3241 |
| 116.6 | 0 | 1.187E-10 | 5.579E-10 | 3243 |
| 117.6 | 1 | 6.264E-10 | 2.944E-09 | 3245 |
| 118.6 | 0 | 2.769E-10 | 1.302E-09 | 3246 |

CROSSWIND INTEGRATED= 3.197E-04 SEC/SQ.M 1.503E-03 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
5000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 4610 |
| 92.0 | 1 | 1.121E-09 | 5.269E-09 | 4620 |
| 94.0 | 7 | 4.678E-09 | 2.199E-08 | 4630 |
| 96.0 | 14 | 8.350E-09 | 3.925E-08 | 4640 |
| 98.0 | 10 | 6.611E-09 | 3.107E-08 | 4660 |
| 100.0 | 102 | 5.305E-08 | 2.954E-07 | 4690 |
| 102.0 | 360 | 2.225E-07 | 1.046E-06 | 4710 |
| E 104.0 | 1064 | 6.569E-07 | 3.087E-06 | 4770 |
| 106.0 | 2037 | 1.258E-06 | 5.911E-06 | 4810 |
| 108.0 | 1379 | 8.517E-07 | 4.003E-06 | 4870 |
| 110.0 | 1960 | 1.136E-06 | 5.339E-06 | 4920 |
| 112.0 | 176 | 1.009E-07 | 5.117E-07 | 4990 |
| 114.0 | 138 | 8.573E-08 | 4.029E-07 | 5080 |
| 116.0 | 21 | 1.307E-08 | 6.141E-08 | 5020 |
| 118.0 | 5 | 3.499E-09 | 1.644E-08 | 5100 |
| 120.0 | 0 | 0. | 0. | 5130 |
| 122.0 | 0 | 1.353E-10 | 6.360E-10 | 4930 |

CROSSWIND INTEGRATED= 7.478E-04 SEC/SQ.M 3.514E-03 1/M

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TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
7000M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 2 | 108.0 | 0 | 0. | 0. | 6800 |
| 1 | 110.0 | 2 | 5.843E-10 | 3.155E-09 | 7000 |
| | 112.0 | 0 | 0. | 0. | 7300 |
| 3 | 114.0 | 140 | 3.927E-08 | 2.120E-07 | 7210 |
| | 116.0 | 337 | 9.431E-08 | 5.093E-07 | 7220 |
| | 118.0 | 850 | 2.375E-07 | 1.282E-06 | 7190 |
| | 120.0 | 838 | 2.342E-07 | 1.265E-06 | 7150 |
| | 122.0 | 459 | 1.283E-07 | 6.929E-07 | 7120 |
| | 124.0 | 4 | 1.235E-09 | 6.942E-09 | 7100 |
| 0 | 126.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 1.841E-04 SEC/SQ.M 9.939E-04 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
12800M ARC SAMPLER HT 1.5M U= 5.4 M/SEC AT111M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 3 | 106.0 | 0 | 0. | 0. | 12800 |
| | 107.0 | 1 | 3.506E-10 | 1.893E-09 | 12800 |
| | 108.0 | 27 | 7.594E-09 | 4.102E-08 | 12800 |
| 7 | 109.0 | 15 | 4.324E-09 | 2.335E-08 | 12800 |
| 3 | 110.0 | 5 | 1.519E-09 | 8.204E-09 | 12800 |
| 5 | 111.0 | 23 | 6.661E-09 | 3.597E-08 | 12800 |
| | 112.0 | 23 | 6.427E-09 | 3.471E-08 | 12800 |
| 5 | 113.0 | 27 | 7.596E-09 | 4.102E-08 | 12800 |
| 3 | 114.0 | 30 | 8.648E-09 | 4.670E-08 | 12800 |
| E | 115.0 | 25 | 7.012E-09 | 3.786E-08 | 12800 |
| 2 | 116.0 | 22 | 6.311E-09 | 3.408E-08 | 12800 |
| 3 | 117.0 | 6 | 1.870E-09 | 1.010E-08 | 12800 |
| 2 | 118.0 | 10 | 2.922E-09 | 1.578E-08 | 12800 |
| 6 | 119.0 | 6 | 1.870E-09 | 1.010E-08 | 12800 |
| 1 | 120.0 | 1 | 3.506E-10 | 1.893E-09 | 12800 |
| 1 | 121.0 | 0 | 0. | 0. | 12800 |
| | 122.0 | 0 | 1.169E-10 | 6.311E-10 | 12800 |
| | 123.0 | 0 | 0. | 0. | 12800 |
| 8 | 124.0 | 5 | 1.519E-09 | 8.204E-09 | 12800 |
| 9 | 125.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 1.454E-05 SEC/SQ.M 7.853E-05 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
7000M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 86.0 | 0 | 0. | 0. | 6500 |
| | 88.0 | 0 | 0. | 0. | 6480 |
| | 90.0 | 1 | 7.152E-10 | 3.361E-09 | 6500 |
| E | 92.0 | 0 | 2.706E-10 | 1.272E-09 | 6490 |
| | 94.0 | 0 | 1.160E-10 | 5.451E-10 | 6500 |
| | 96.0 | 2 | 1.624E-09 | 7.631E-09 | 6510 |
| E | 98.0 | 30 | 1.892E-08 | 8.894E-08 | 6520 |
| | 100.0 | 102 | 6.338E-08 | 2.979E-07 | 6560 |
| | 102.0 | 155 | 9.580E-08 | 4.503E-07 | 6610 |
| | 104.0 | 131 | 8.119E-08 | 3.816E-07 | 6650 |
| 4 | 106.0 | 282 | 1.741E-07 | 8.185E-07 | 6720 |
| | 108.0 | 788 | 4.867E-07 | 2.288E-06 | 6800 |
| | 110.0 | 1459 | 9.007E-07 | 4.234E-06 | 7000 |
| | 112.0 | 1104 | 6.815E-07 | 3.203E-06 | 7300 |
| | 114.0 | 499 | 3.081E-07 | 1.448E-06 | 7210 |
| | 116.0 | 525 | 3.243E-07 | 1.524E-06 | 7220 |
| | 118.0 | 96 | 5.952E-08 | 2.797E-07 | 7190 |
| | 120.0 | 5 | 3.189E-09 | 1.499E-08 | 7150 |
| | 122.0 | 0 | 0. | 0. | 7120 |
| | 124.0 | 0 | 0. | 0. | 7100 |

CROSSWIND INTEGRATED= 7.855E-04 SEC/SQ.M 3.692E-03 1/M

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
12800M ARC SAMPLER HT 1.5M U= 4.7 M/SEC AT 56M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 8 | 91.0 | 18 | 1.144E-08 | 5.378E-08 | 12800 |
| 4 | 92.0 | 17 | 1.086E-08 | 5.106E-08 | 12800 |
| E | 93.0 | 16 | 9.897E-09 | 4.652E-08 | 12800 |
| 4 | 94.0 | 13 | 8.544E-09 | 4.016E-08 | 12800 |
| 4 | 95.0 | 16 | 1.048E-08 | 4.924E-08 | 12800 |
| 4 | 96.0 | 33 | 2.072E-08 | 9.739E-08 | 12800 |
| | 97.0 | 38 | 2.362E-08 | 1.110E-07 | 12800 |
| 7 | 98.0 | 44 | 2.768E-08 | 1.301E-07 | 12800 |
| | 99.0 | 105 | 6.499E-08 | 3.054E-07 | 12800 |
| 6 | 100.0 | 105 | 6.499E-08 | 3.054E-07 | 12800 |
| | 101.0 | 89 | 5.532E-08 | 2.600E-07 | 12800 |
| 4 | 102.0 | 111 | 6.865E-08 | 3.226E-07 | 12800 |
| | 103.0 | 67 | 4.160E-08 | 1.955E-07 | 12800 |
| | 104.0 | 29 | 1.840E-08 | 8.649E-08 | 12800 |
| E | 105.0 | 48 | 3.019E-08 | 1.419E-07 | 12800 |
| | 106.0 | 86 | 5.339E-08 | 2.509E-07 | 12800 |
| | 107.0 | 33 | 2.072E-08 | 9.739E-08 | 12800 |
| | 108.0 | 32 | 2.014E-08 | 9.467E-08 | 12800 |
| 7 | 109.0 | 34 | 2.130E-08 | 1.001E-07 | 12800 |
| | 110.0 | 55 | 3.406E-08 | 1.601E-07 | 12800 |
| 5 | 111.0 | 34 | 2.130E-08 | 1.001E-07 | 12800 |
| | 112.0 | 25 | 1.550E-08 | 7.286E-08 | 12800 |
| 5 | 113.0 | 33 | 2.072E-08 | 9.739E-08 | 12800 |
| | 114.0 | 8 | 5.451E-09 | 2.562E-08 | 12800 |
| 9 | 115.0 | 12 | 7.964E-09 | 3.743E-08 | 12800 |
| | 116.0 | 10 | 6.224E-09 | 2.925E-08 | 12800 |
| | 117.0 | 2 | 1.353E-09 | 6.360E-09 | 12800 |
| | 118.0 | 5 | 3.615E-09 | 1.699E-08 | 12800 |
| 6 | 119.0 | 6 | 3.905E-09 | 1.835E-08 | 12800 |
| | 120.0 | 7 | 4.574E-09 | 2.149E-08 | 12800 |
| E | 121.0 | 6 | 4.291E-09 | 2.017E-08 | 12800 |
| | 122.0 | 6 | 4.137E-09 | 1.944E-08 | 12800 |
| | 123.0 | 8 | 5.258E-09 | 2.471E-08 | 12800 |
| 4 | 124.0 | 3 | 1.991E-09 | 9.358E-09 | 12800 |
| 4 | 125.0 | 6 | 3.905E-09 | 1.835E-08 | 12800 |
| 8 | 126.0 | 2 | 1.759E-09 | 8.267E-09 | 12800 |
| 8 | 127.0 | 6 | 4.098E-09 | 1.926E-08 | 12800 |
| 9 | 128.0 | 7 | 4.871E-09 | 2.289E-08 | 12800 |
| 8 | 129.0 | 2 | 1.527E-09 | 7.177E-09 | 12800 |
| 7 | 130.0 | 3 | 2.165E-09 | 1.018E-08 | 12800 |
| | 131.0 | 0 | 0. | 0. | 12800 |

CROSSWIND INTEGRATED= 1.657E-04 SEC/SQ.M 7.790E-04 1/M

TOWER DATA FOLLOW....

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
3200M ARC U= 5.4 M/SEC AT111M

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| R | 115.6 | .2 | 108 | 3.030E-08 | 1.636E-07 | 3200 |
| | 115.6 | .4 | 431 | 1.204E-07 | 6.501E-07 | 3200 |
| R | 115.6 | .8 | 25 | 7.176E-09 | 3.875E-08 | 3200 |
| | 115.6 | 1.5 | 328 | 9.164E-08 | 4.951E-07 | 3200 |
| | 115.6 | 1.6 | 382 | 1.068E-07 | 5.769E-07 | 3200 |
| | 115.6 | 3.1 | 479 | 1.339E-07 | 7.233E-07 | 3200 |
| | 115.6 | 6.2 | 471 | 1.317E-07 | 7.114E-07 | 3200 |
| | 115.6 | 9.3 | 1289 | 3.603E-07 | 1.946E-06 | 3200 |
| | 115.6 | 12.4 | 587 | 1.642E-07 | 8.865E-07 | 3200 |
| | 115.6 | 15.5 | 262 | 7.321E-08 | 3.953E-07 | 3200 |
| | 115.6 | 18.6 | 312 | 8.734E-08 | 4.716E-07 | 3200 |
| R | 115.6 | 21.7 | 70 | 1.957E-08 | 1.057E-07 | 3200 |
| | 115.6 | 24.8 | 631 | 1.765E-07 | 9.531E-07 | 3200 |
| | 115.6 | 31.0 | 456 | 1.269E-07 | 6.853E-07 | 3200 |
| | 115.6 | 37.2 | 308 | 8.617E-08 | 4.653E-07 | 3200 |
| | 115.6 | 43.4 | 484 | 1.353E-07 | 7.306E-07 | 3200 |
| | 115.6 | 49.6 | 434 | 1.157E-07 | 6.250E-07 | 3200 |
| | 115.6 | 55.8 | 867 | 2.422E-07 | 1.306E-06 | 3200 |
| B | 115.6 | 62.0 | 1269 | 3.547E-07 | 1.916E-06 | 3200 |

TOWER DATA FOLLOW....

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
3200M ARC U= 4.7 M/SEC AT 56M

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 115.6 | .2 | 0 | 0. | 0. | 3200 |
| | 115.6 | .4 | 4 | 2.605E-09 | 1.224E-08 | 3200 |
| | 115.6 | .8 | 1 | 1.022E-09 | 4.804E-09 | 3200 |
| | 115.6 | 1.5 | 1 | 6.578E-10 | 3.066E-09 | 3200 |
| | 115.6 | 1.6 | 9 | 5.638E-09 | 2.650E-08 | 3200 |
| Z | 115.6 | 3.1 | 6 | 4.055E-09 | 1.906E-08 | 3200 |
| | 115.6 | 6.2 | 104 | 6.439E-08 | 3.026E-07 | 3200 |
| | 115.6 | 9.3 | 308 | 1.903E-07 | 8.946E-07 | 3200 |
| | 115.6 | 12.4 | 895 | 5.530E-07 | 2.599E-06 | 3200 |
| | 115.6 | 15.5 | 1651 | 1.039E-06 | 4.877E-06 | 3200 |
| | 115.6 | 18.6 | 2555 | 1.578E-06 | 7.415E-06 | 3200 |
| | 115.6 | 21.7 | 4036 | 2.492E-06 | 1.171E-05 | 3200 |
| | 115.6 | 24.8 | 5932 | 3.662E-06 | 1.721E-05 | 3200 |
| | 115.6 | 31.0 | 7766 | 4.794E-06 | 2.253E-05 | 3200 |
| | 115.6 | 37.2 | 12298 | 7.591E-06 | 3.568E-05 | 3200 |
| | 115.6 | 43.4 | 11650 | 7.192E-06 | 3.380E-05 | 3200 |
| | 115.6 | 49.6 | 10679 | 6.592E-06 | 3.098E-05 | 3200 |
| | 115.6 | 55.8 | 10679 | 6.592E-06 | 3.098E-05 | 3200 |
| B | 115.6 | 62.0 | 10356 | 6.393E-06 | 3.005E-05 | 3200 |

1202871

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS ENBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. ALTHOUGH TRACERS TRUNCATED AT TOPS OF TOWERS. EXTRAPOLATION IS DISTINCT POSSIBILITY ON THIS TEST. RELATIVELY SMALL AMOUNT OF RHODAMINE DISPERSED LEAVES CONSIDERABLE UNCERTAINTIESIN INDIVIDUAL EXPOSURE VALUES.

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 92.0 | 0 | 0. | 0. | 200 |
| 94.0 | 65 | 6.530E-08 | 3.787E-07 | 200 |
| 96.0 | 370 | 3.700E-07 | 2.146E-06 | 200 |
| 98.0 | 977 | 9.776E-07 | 5.670E-06 | 200 |
| 100.0 | 1091 | 1.092E-06 | 6.333E-06 | 200 |
| 102.0 | 2073 | 2.073E-06 | 1.202E-05 | 200 |
| 104.0 | 4216 | 4.216E-06 | 2.445E-05 | 200 |
| 106.0 | 3677 | 3.677E-06 | 2.133E-05 | 200 |
| 108.0 | 4469 | 4.469E-06 | 2.592E-05 | 200 |
| 110.0 | 5903 | 5.904E-06 | 3.424E-05 | 200 |
| 112.0 | 7063 | 7.064E-06 | 4.097E-05 | 200 |
| 114.0 | 6552 | 6.552E-06 | 3.800E-05 | 200 |
| 116.0 | 3067 | 3.067E-06 | 1.779E-05 | 200 |
| 118.0 | 3322 | 3.323E-06 | 1.927E-05 | 200 |
| 120.0 | 1208 | 1.209E-06 | 7.011E-06 | 200 |
| 122.0 | 1736 | 1.737E-06 | 1.007E-05 | 200 |
| 124.0 | 1160 | 1.161E-06 | 6.733E-06 | 200 |
| 126.0 | 520 | 5.205E-07 | 3.019E-06 | 200 |
| 128.0 | 301 | 3.011E-07 | 1.746E-06 | 200 |
| 130.0 | 1093 | 1.094E-06 | 6.343E-06 | 200 |
| 132.0 | 400 | 4.003E-07 | 2.325E-06 | 200 |
| 134.0 | 106 | 1.061E-07 | 6.154E-07 | 200 |
| 136.0 | 72 | 7.255E-08 | 4.206E-07 | 200 |
| 138.0 | 51 | 5.164E-08 | 2.996E-07 | 200 |
| 140.0 | 33 | 3.355E-08 | 1.946E-07 | 200 |

CROSSWIND INTEGRATED= 3.458E-04 SEC/SQ.M 2.006E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 7 | 7.479E-08 | 4.337E-07 | 200 |
| 88.0 | 5 | 5.697E-08 | 3.304E-07 | 200 |
| 90.0 | 5 | 5.697E-08 | 3.304E-07 | 200 |
| 92.0 | 0 | 0. | 0. | 200 |
| 94.0 | 0 | 0. | 0. | 200 |
| 96.0 | 18 | 1.816E-07 | 1.053E-06 | 200 |
| 98.0 | 27 | 2.777E-07 | 1.611E-06 | 200 |
| 100.0 | 39 | 3.953E-07 | 2.292E-06 | 200 |
| 102.0 | 72 | 7.300E-07 | 4.234E-06 | 200 |
| 104.0 | 144 | 1.442E-06 | 8.364E-06 | 200 |
| 106.0 | 518 | 5.181E-06 | 3.005E-05 | 200 |
| 108.0 | 176 | 1.763E-06 | 1.022E-05 | 200 |
| 110.0 | 272 | 2.724E-06 | 1.580E-05 | 200 |
| 112.0 | 251 | 2.51FE-06 | 1.456E-05 | 200 |
| 114.0 | 240 | 2.404E-06 | 1.394E-05 | 200 |
| 2 116.0 | 186 | 1.869E-06 | 1.084E-05 | 200 |
| 118.0 | 112 | 1.122E-06 | 6.506E-06 | 200 |
| 120.0 | 39 | 3.953E-07 | 2.292E-06 | 200 |
| 122.0 | 62 | 6.231E-07 | 3.614E-06 | 200 |
| 124.0 | 39 | 3.946E-07 | 2.230E-06 | 200 |
| 4 126.0 | 41 | 4.166E-07 | 2.416E-06 | 200 |
| 128.0 | 14 | 1.496E-07 | 8.674E-07 | 200 |
| 130.0 | 12 | 1.213E-07 | 7.022E-07 | 200 |
| 132.0 | 8 | 8.902E-08 | 5.163E-07 | 200 |
| 134.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.604E-04 SEC/SQ.M 9.300E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 0 | 0. | 0. | 400 |
| 86.0 | 1 | 1.108E-09 | 6.428E-09 | 400 |
| 90.0 | 1 | 1.478E-09 | 8.571E-09 | 400 |
| 94.0 | 56 | 5.690E-08 | 3.300E-07 | 400 |
| 96.0 | 278 | 2.782E-07 | 1.614E-06 | 400 |
| 102.0 | 803 | 8.036E-07 | 4.661E-06 | 400 |
| 106.0 | 1150 | 1.150E-06 | 6.671E-06 | 400 |
| 110.0 | 1013 | 1.013E-06 | 5.876E-06 | 400 |
| 114.0 | 2317 | 2.318E-06 | 1.344E-05 | 400 |
| 118.0 | 1717 | 1.718E-06 | 9.962E-06 | 400 |
| 122.0 | 1017 | 1.017E-06 | 5.899E-06 | 400 |
| 126.0 | 808 | 8.084E-07 | 4.689E-06 | 400 |
| 130.0 | 97 | 9.791E-08 | 5.678E-07 | 400 |
| 134.0 | 19 | 1.921E-08 | 1.114E-07 | 400 |
| 138.0 | 8 | 8.867E-09 | 5.143E-08 | 400 |
| 142.0 | 8 | 8.497E-09 | 4.929E-08 | 400 |
| 146.0 | 5 | 5.172E-09 | 3.000E-08 | 400 |
| 150.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 2.599E-04 SEC/SQ.M 1.507E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 5.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 5 90.0 | 1 | 1.144E-08 | 6.632E-08 | 400 |
| 94.0 | 5 | 5.301E-08 | 3.075E-07 | 400 |
| 4 98.0 | 95 | 9.511E-07 | 5.516E-06 | 400 |
| 102.0 | 258 | 2.584E-06 | 1.498E-05 | 400 |
| 106.0 | 320 | 3.207E-06 | 1.860E-05 | 400 |
| 110.0 | 195 | 1.959E-06 | 1.136E-05 | 400 |
| 114.0 | 362 | 3.622E-06 | 2.101E-05 | 400 |
| 118.0 | 393 | 3.934E-06 | 2.282E-05 | 400 |
| 122.0 | 320 | 3.207E-06 | 1.860E-05 | 400 |
| 126.0 | 54 | 5.457E-07 | 3.165E-06 | 400 |
| 4 130.0 | 19 | 1.923E-07 | 1.115E-06 | 400 |
| 4 134.0 | 5 | 5.925E-08 | 3.436E-07 | 400 |

CROSSWIND INTEGRATED= 5.676E-04 SEC/SQ.M 3.292E-03 1/M

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TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 93.2 | 0 | 0. | 0. | 799 |
| 95.1 | 25 | 2.544E-08 | 1.476E-07 | 802 |
| 97.1 | 32 | 3.246E-08 | 1.883E-07 | 806 |
| 99.1 | 98 | 9.825E-08 | 5.699E-07 | 809 |
| 101.1 | 196 | 1.965E-07 | 1.140E-06 | 813 |
| 103.0 | 812 | 8.123E-07 | 4.712E-06 | 816 |
| 105.0 | 693 | 6.930E-07 | 4.020E-06 | 820 |
| 106.9 | 1070 | 1.070E-06 | 6.207E-06 | 823 |
| 108.8 | 1250 | 1.251E-06 | 7.256E-06 | 826 |
| 110.7 | 793 | 7.930E-07 | 4.600E-06 | 829 |
| 112.6 | 1035 | 1.035E-06 | 6.004E-06 | 833 |
| 114.5 | 1464 | 1.465E-06 | 8.497E-06 | 836 |
| 116.4 | 1374 | 1.375E-06 | 7.973E-06 | 839 |
| 118.3 | 1603 | 1.604E-06 | 9.301E-06 | 842 |
| 120.2 | 1322 | 1.322E-06 | 7.668E-06 | 845 |
| 122.1 | 1421 | 1.421E-06 | 8.243E-06 | 848 |
| 124.0 | 761 | 7.614E-07 | 4.416E-06 | 851 |
| 125.8 | 435 | 4.351E-07 | 2.524E-06 | 854 |
| 127.7 | 142 | 1.421E-07 | 8.243E-07 | 857 |
| 129.5 | 62 | 6.228E-08 | 3.612E-07 | 859 |
| 131.4 | 14 | 1.491E-08 | 8.650E-08 | 862 |
| 133.2 | 0 | 0. | 0. | 865 |
| 135.0 | 15 | 1.579E-08 | 9.158E-08 | 867 |
| 136.8 | 1 | 1.754E-09 | 1.018E-08 | 869 |
| 138.7 | 6 | 6.141E-09 | 3.562E-08 | 872 |
| 140.6 | 1 | 1.754E-09 | 1.018E-08 | 874 |
| 142.4 | 0 | 0. | 0. | 876 |

CROSSWIND INTEGRATED= 4.059E-04 SEC/SQ.M 2.354E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 95.1 | 3 | 3.789E-08 | 2.198E-07 | 802 |
| 97.1 | 2 | 2.067E-08 | 1.199E-07 | 806 |
| 99.1 | 6 | 6.200E-08 | 3.596E-07 | 809 |
| 101.1 | 17 | 1.757E-07 | 1.019E-06 | 813 |
| Z 103.0 | 87 | 8.783E-07 | 5.094E-06 | 816 |
| 105.0 | 80 | 8.094E-07 | 4.695E-06 | 820 |
| 106.9 | 94 | 9.472E-07 | 5.494E-06 | 823 |
| 108.8 | 108 | 1.085E-06 | 6.293E-06 | 826 |
| 110.7 | 9 | 9.300E-08 | 5.394E-07 | 829 |
| 112.6 | 84 | 8.439E-07 | 4.895E-06 | 833 |
| 114.5 | 115 | 1.154E-06 | 6.693E-06 | 836 |
| 116.4 | 91 | 9.128E-07 | 5.294E-06 | 839 |
| 118.3 | 80 | 8.094E-07 | 4.695E-06 | 842 |
| 120.2 | 63 | 6.372E-07 | 3.696E-06 | 845 |
| 122.1 | 77 | 7.750E-07 | 4.495E-06 | 848 |
| 124.0 | 39 | 3.961E-07 | 2.297E-06 | 851 |
| 125.8 | 24 | 2.480E-07 | 1.438E-06 | 854 |
| 127.7 | 13 | 1.343E-07 | 7.791E-07 | 857 |
| 129.5 | 3 | 3.100E-08 | 1.798E-07 | 859 |
| 131.4 | 0 | 0. | 0. | 862 |
| 133.2 | 0 | 0. | 0. | 865 |
| 135.0 | 0 | 0. | 0. | 867 |

CROSSWIND INTEGRATED= 2.786E-04 SEC/SQ.M 1.616E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 5 94.0 | 0 | 8.635E-10 | 5.008E-09 | 1200 |
| 96.0 | 19 | 1.921E-08 | 1.114E-07 | 1200 |
| 4 98.0 | 23 | 2.353E-08 | 1.365E-07 | 1200 |
| 5 100.0 | 34 | 3.476E-08 | 2.016E-07 | 1200 |
| 6 102.0 | 72 | 7.297E-08 | 4.232E-07 | 1200 |
| 104.0 | 311 | 3.115E-07 | 1.807E-06 | 1200 |
| 106.0 | 237 | 2.370E-07 | 1.375E-06 | 1200 |
| 108.0 | 646 | 6.468E-07 | 3.751E-06 | 1200 |
| 110.0 | 536 | 5.362E-07 | 3.110E-06 | 1200 |
| 112.0 | 725 | 7.260E-07 | 4.211E-06 | 1200 |
| 114.0 | 565 | 5.652E-07 | 3.278E-06 | 1200 |
| 116.0 | 815 | 8.156E-07 | 4.730E-06 | 1200 |
| 4 118.0 | 411 | 4.119E-07 | 2.389E-06 | 1200 |
| 120.0 | 497 | 4.972E-07 | 2.884E-06 | 1200 |
| 122.0 | 259 | 2.597E-07 | 1.506E-06 | 1200 |
| 124.0 | 301 | 3.014E-07 | 1.748E-06 | 1200 |
| 4 126.0 | 104 | 1.045E-07 | 6.060E-07 | 1200 |
| 128.0 | 136 | 1.362E-07 | 7.901E-07 | 1200 |
| 130.0 | 25 | 2.526E-08 | 1.465E-07 | 1200 |
| 132.0 | 3 | 3.027E-09 | 1.753E-08 | 1200 |
| 4 134.0 | 0 | 4.318E-10 | 2.504E-09 | 1200 |
| 136.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.400E-04 SEC/SQ.M 1.392E-03 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 96.0 | 0 | 0. | 0. | 1200 |
| 4 98.0 | 6 | 6.087E-08 | 3.531E-07 | 1200 |
| 5 100.0 | 9 | 9.566E-08 | 5.546E-07 | 1200 |
| 102.0 | 17 | 1.710E-07 | 9.920E-07 | 1200 |
| 104.0 | 18 | 1.884E-07 | 1.093E-06 | 1200 |
| 106.0 | 47 | 4.783E-07 | 2.774E-06 | 1200 |
| 108.0 | 33 | 3.392E-07 | 1.967E-06 | 1200 |
| 110.0 | 39 | 3.913E-07 | 2.270E-06 | 1200 |
| 112.0 | 40 | 4.087E-07 | 2.371E-06 | 1200 |
| 114.0 | 49 | 4.957E-07 | 2.875E-06 | 1200 |
| 116.0 | 33 | 3.392E-07 | 1.967E-06 | 1200 |
| 4 118.0 | 56 | 5.653E-07 | 3.279E-06 | 1200 |
| 120.0 | 60 | 6.000E-07 | 3.480E-06 | 1200 |
| 122.0 | 40 | 4.087E-07 | 2.371E-06 | 1200 |
| 124.0 | 16 | 1.652E-07 | 9.583E-07 | 1200 |
| 4 126.0 | 18 | 1.884E-07 | 1.093E-06 | 1200 |
| 128.0 | 5 | 5.740E-08 | 3.329E-07 | 1200 |
| 130.0 | 4 | 4.870E-08 | 2.825E-07 | 1200 |
| 132.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.095E-04 SEC/SQ.M 1.215E-03 1/M

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V1

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.6 | 6 | 6.089E-09 | 3.532E-08 | 1610 |
| 98.6 | 2 | 2.706E-09 | 1.570E-08 | 1611 |
| 99.6 | 37 | 3.789E-08 | 2.198E-07 | 1613 |
| 100.6 | 53 | 5.345E-08 | 3.100E-07 | 1615 |
| 101.6 | 79 | 7.984E-08 | 4.631E-07 | 1617 |
| 102.6 | 100 | 1.008E-07 | 5.847E-07 | 1618 |
| 103.6 | 89 | 8.931E-08 | 5.180E-07 | 1620 |
| 104.5 | 144 | 1.448E-07 | 8.398E-07 | 1622 |
| 105.5 | 129 | 1.299E-07 | 7.535E-07 | 1623 |
| 106.5 | 221 | 2.212E-07 | 1.283E-06 | 1625 |
| 107.5 | 98 | 9.878E-08 | 5.729E-07 | 1627 |
| 108.5 | 231 | 2.314E-07 | 1.342E-06 | 1628 |
| 109.5 | 410 | 4.107E-07 | 2.382E-06 | 1630 |
| 110.4 | 205 | 2.050E-07 | 1.189E-06 | 1632 |
| 111.4 | 148 | 1.489E-07 | 8.633E-07 | 1633 |
| 112.4 | 334 | 3.349E-07 | 1.943E-06 | 1635 |
| 113.4 | 250 | 2.503E-07 | 1.452E-06 | 1637 |
| 114.4 | 230 | 2.307E-07 | 1.338E-06 | 1638 |
| 115.3 | 221 | 2.212E-07 | 1.283E-06 | 1640 |
| 116.3 | 401 | 4.019E-07 | 2.331E-06 | 1641 |
| 117.3 | 338 | 3.390E-07 | 1.966E-06 | 1643 |
| 118.2 | 252 | 2.524E-07 | 1.464E-06 | 1644 |
| 119.2 | 326 | 3.261E-07 | 1.892E-06 | 1646 |
| 120.2 | 284 | 2.842E-07 | 1.648E-06 | 1647 |
| 121.2 | 125 | 1.258E-07 | 7.299E-07 | 1649 |
| 122.1 | 196 | 1.969E-07 | 1.142E-06 | 1650 |
| 123.1 | 105 | 1.056E-07 | 6.122E-07 | 1652 |
| 124.1 | 272 | 2.727E-07 | 1.581E-06 | 1653 |
| 125.0 | 135 | 1.360E-07 | 7.888E-07 | 1655 |
| 126.0 | 106 | 1.069E-07 | 6.200E-07 | 1656 |
| 126.9 | 71 | 7.104E-08 | 4.121E-07 | 1658 |
| 127.8 | 37 | 3.769E-08 | 2.198E-07 | 1659 |
| 128.8 | 24 | 2.436E-08 | 1.413E-07 | 1660 |
| 129.7 | 49 | 4.939E-08 | 2.865E-07 | 1662 |
| 130.6 | 9 | 9.472E-09 | 5.494E-08 | 1663 |
| 131.5 | 0 | 0. | 0. | 1664 |

CROSSWIND INTEGRATED= 1.597E-04 SEC/SQ.M 9.263E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.6 | 10 | 1.022E-07 | 5.929E-07 | 1611 |
| 99.6 | 12 | 1.295E-07 | 7.510E-07 | 1613 |
| 100.6 | 17 | 1.772E-07 | 1.028E-06 | 1615 |
| 101.6 | 0 | 0. | 0. | 1617 |
| 102.6 | 13 | 1.363E-07 | 7.905E-07 | 1618 |
| 103.6 | 1 | 1.817E-08 | 1.054E-07 | 1620 |
| 104.5 | 10 | 1.022E-07 | 5.929E-07 | 1622 |
| 105.5 | 12 | 1.227E-07 | 7.114E-07 | 1623 |
| 106.5 | 14 | 1.431E-07 | 8.300E-07 | 1625 |
| 107.5 | 18 | 1.840E-07 | 1.067E-06 | 1627 |
| 108.5 | 15 | 1.567E-07 | 9.091E-07 | 1628 |
| 109.5 | 10 | 1.022E-07 | 5.929E-07 | 1630 |
| 110.4 | 15 | 1.567E-07 | 9.091E-07 | 1632 |
| 111.4 | 12 | 1.295E-07 | 7.510E-07 | 1633 |
| 112.4 | 17 | 1.772E-07 | 1.028E-06 | 1635 |
| 113.4 | 16 | 1.636E-07 | 9.496E-07 | 1637 |
| 114.4 | 19 | 1.908E-07 | 1.107E-06 | 1638 |
| 115.3 | 20 | 2.044E-07 | 1.186E-06 | 1640 |
| 116.3 | 8 | 8.178E-08 | 4.743E-07 | 1641 |
| 117.3 | 12 | 1.227E-07 | 7.114E-07 | 1643 |
| 118.2 | 15 | 1.567E-07 | 9.091E-07 | 1644 |
| 119.2 | 16 | 1.636E-07 | 9.496E-07 | 1646 |
| 120.2 | 17 | 1.704E-07 | 9.881E-07 | 1647 |
| 121.2 | 22 | 2.249E-07 | 1.304E-06 | 1649 |
| 122.1 | 35 | 3.521E-07 | 2.042E-06 | 1650 |
| 123.1 | 16 | 1.636E-07 | 9.496E-07 | 1652 |
| 124.1 | 13 | 1.363E-07 | 7.905E-07 | 1653 |
| 125.0 | 1 | 1.817E-08 | 1.054E-07 | 1655 |
| 126.0 | 11 | 1.158E-07 | 6.719E-07 | 1656 |
| 126.9 | 6 | 6.815E-08 | 3.953E-07 | 1658 |
| 127.8 | 8 | 8.859E-08 | 5.135E-07 | 1659 |
| 128.8 | 8 | 8.178E-08 | 4.743E-07 | 1660 |
| 129.7 | 6 | 6.133E-08 | 3.557E-07 | 1662 |
| 130.6 | 6 | 6.133E-08 | 3.557E-07 | 1663 |

CROSSWIND INTEGRATED= 1.241E-04 SEC/SQ.M 7.198E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.0 | 3 | 3.651E-09 | 2.118E-08 | 2200 |
| 100.0 | 6 | 6.938E-09 | 4.024E-08 | 2200 |
| 102.0 | 5 | 5.112E-09 | 2.965E-08 | 2200 |
| 104.0 | 22 | 2.264E-08 | 1.313E-07 | 2200 |
| 106.0 | 35 | 3.542E-08 | 2.054E-07 | 2200 |
| 108.0 | 37 | 3.797E-08 | 2.202E-07 | 2200 |
| 110.0 | 135 | 1.350E-07 | 7.826E-07 | 2200 |
| 112.0 | 75 | 7.556E-08 | 4.364E-07 | 2200 |
| 114.0 | 62 | 6.244E-08 | 3.621E-07 | 2200 |
| 116.0 | 117 | 1.176E-07 | 6.819E-07 | 2200 |
| S 118.0 | 58 | 5.221E-08 | 3.028E-07 | 2200 |
| 120.0 | 81 | 8.106E-08 | 4.701E-07 | 2200 |
| 122.0 | 41 | 4.199E-08 | 2.435E-07 | 2200 |
| 124.0 | 89 | 8.982E-08 | 5.210E-07 | 2200 |
| 126.0 | 59 | 5.988E-08 | 3.473E-07 | 2200 |
| 128.0 | 42 | 4.236E-08 | 2.457E-07 | 2200 |
| 130.0 | 0 | 7.303E-10 | 4.236E-09 | 2200 |
| 132.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 6.690E-05 SEC/SQ.M 3.880E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.0 | 8 | 8.629E-08 | 5.005E-07 | 2200 |
| 106.0 | 11 | 1.181E-07 | 6.852E-07 | 2200 |
| 108.0 | 13 | 1.367E-07 | 8.064E-07 | 2200 |
| 110.0 | 12 | 1.204E-07 | 7.449E-07 | 2200 |
| 112.0 | 14 | 1.490E-07 | 8.640E-07 | 2200 |
| 114.0 | 11 | 1.181E-07 | 6.852E-07 | 2200 |
| 116.0 | 20 | 2.003E-07 | 1.162E-06 | 2200 |
| S 118.0 | 27 | 2.722E-07 | 1.579E-06 | 2200 |
| 120.0 | 16 | 1.695E-07 | 9.831E-07 | 2200 |
| 122.0 | 14 | 1.490E-07 | 8.640E-07 | 2200 |
| 124.0 | 12 | 1.204E-07 | 7.449E-07 | 2200 |
| 126.0 | 5 | 5.547E-08 | 3.217E-07 | 2200 |
| 128.0 | 5 | 5.239E-08 | 3.039E-07 | 2200 |
| 130.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.356E-04 SEC/SQ.M 7.866E-04 1/M

1202874

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 97.8 | 1 | 1.826E-09 | 1.059E-08 | 3212 |
| 98.8 | 3 | 3.286E-09 | 1.906E-08 | 3213 |
| 99.8 | 22 | 2.227E-08 | 1.292E-07 | 3215 |
| 100.8 | 17 | 1.716E-08 | 9.953E-08 | 3217 |
| 101.8 | 10 | 1.059E-08 | 6.142E-08 | 3218 |
| 102.8 | 18 | 1.826E-08 | 1.059E-07 | 3220 |
| 103.8 | 33 | 3.323E-08 | 1.927E-07 | 3222 |
| 104.8 | 22 | 2.264E-08 | 1.313E-07 | 3224 |
| 105.8 | 57 | 5.733E-08 | 3.325E-07 | 3225 |
| 106.8 | 75 | 7.558E-08 | 4.384E-07 | 3227 |
| 107.8 | 78 | 7.814E-08 | 4.532E-07 | 3229 |
| 108.8 | 116 | 1.183E-07 | 6.862E-07 | 3230 |
| 109.7 | 129 | 1.296E-07 | 7.518E-07 | 3232 |
| 110.7 | 109 | 1.092E-07 | 6.332E-07 | 3233 |
| 111.7 | 94 | 9.493E-08 | 5.506E-07 | 3235 |
| 112.7 | 102 | 1.022E-07 | 5.930E-07 | 3237 |
| 113.7 | 143 | 1.435E-07 | 8.323E-07 | 3238 |
| 114.6 | 120 | 1.201E-07 | 6.967E-07 | 3240 |
| 115.6 | 104 | 1.041E-07 | 6.036E-07 | 3241 |
| 116.6 | 88 | 8.836E-08 | 5.125E-07 | 3243 |
| 117.6 | 123 | 1.238E-07 | 7.179E-07 | 3245 |
| 118.6 | 112 | 1.121E-07 | 6.502E-07 | 3246 |
| 119.5 | 58 | 5.806E-08 | 3.367E-07 | 3248 |
| 120.5 | 104 | 1.048E-07 | 6.078E-07 | 3249 |
| 121.5 | 63 | 6.353E-08 | 3.685E-07 | 3251 |
| 122.4 | 59 | 5.915E-08 | 3.431E-07 | 3252 |
| 123.4 | 98 | 9.859E-08 | 5.718E-07 | 3253 |
| 124.4 | 23 | 2.373E-08 | 1.377E-07 | 3255 |
| 125.4 | 86 | 8.690E-08 | 5.040E-07 | 3256 |
| 126.3 | 20 | 2.008E-08 | 1.165E-07 | 3258 |
| 127.3 | 7 | 7.668E-09 | 4.447E-08 | 3259 |
| 128.3 | 0 | 0. | 0. | 3261 |

CROSSWIND INTEGRATED= 1.167E-04 SEC/SQ.M 6.766E-04 1/M

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 98.8 | 0 | 0. | 0. | 3213 |
| 99.8 | 1 | 1.335E-08 | 7.746E-08 | 3215 |
| 100.8 | 0 | 0. | 0. | 3217 |
| 101.8 | 0 | 0. | 0. | 3218 |
| 102.8 | 0 | 0. | 0. | 3220 |
| 103.8 | 0 | 0. | 0. | 3222 |
| 104.8 | 0 | 4.109E-09 | 2.383E-08 | 3224 |
| 105.8 | 1 | 1.438E-08 | 8.342E-08 | 3225 |
| 106.8 | 1 | 1.027E-08 | 5.956E-08 | 3227 |
| 107.8 | 1 | 1.233E-08 | 7.150E-08 | 3229 |
| 108.8 | 1 | 1.849E-08 | 1.072E-07 | 3230 |
| 109.7 | 1 | 1.746E-08 | 1.013E-07 | 3232 |
| 110.7 | 2 | 2.774E-08 | 1.609E-07 | 3233 |
| 111.7 | 6 | 6.164E-08 | 3.575E-07 | 3235 |
| 112.7 | 2 | 2.465E-08 | 1.430E-07 | 3237 |
| 113.7 | 2 | 2.465E-08 | 1.430E-07 | 3238 |
| 114.6 | 3 | 3.390E-08 | 1.966E-07 | 3240 |
| 115.6 | 2 | 2.465E-08 | 1.430E-07 | 3241 |
| 116.6 | 2 | 2.774E-08 | 1.609E-07 | 3243 |
| 117.6 | 1 | 1.849E-08 | 1.072E-07 | 3245 |
| 118.6 | 2 | 2.774E-08 | 1.609E-07 | 3246 |
| 119.5 | 5 | 5.547E-08 | 3.217E-07 | 3248 |
| 120.5 | 2 | 2.774E-08 | 1.609E-07 | 3249 |
| 121.5 | 2 | 2.157E-08 | 1.251E-07 | 3251 |
| 4 122.4 | 5 | 5.239E-08 | 3.039E-07 | 3252 |
| 123.4 | 1 | 1.027E-08 | 5.956E-08 | 3253 |
| 124.4 | 5 | 5.239E-08 | 3.039E-07 | 3255 |
| 125.4 | 2 | 2.157E-08 | 1.251E-07 | 3256 |
| 126.3 | 4 | 4.006E-08 | 2.324E-07 | 3258 |
| 127.3 | 1 | 1.644E-08 | 9.533E-08 | 3259 |
| 128.3 | 3 | 3.698E-08 | 2.145E-07 | 3261 |
| 129.3 | 2 | 2.465E-08 | 1.430E-07 | 3262 |
| 130.3 | 2 | 2.157E-08 | 1.251E-07 | 3263 |

CROSSWIND INTEGRATED= 4.119E-05 SEC/SQ.M 2.389E-04 1/M

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 102.0 | .4 | 2311 | 2.311E-06 | 1.340E-05 | 200 |
| 102.0 | .8 | 2131 | 2.132E-06 | 1.236E-05 | 200 |
| 102.0 | 1.5 | 2073 | 2.073E-06 | 1.202E-05 | 200 |
| 102.0 | 2.5 | 2167 | 2.167E-06 | 1.257E-05 | 200 |
| 102.0 | 4.0 | 2119 | 2.119E-06 | 1.229E-05 | 200 |
| 102.0 | 5.5 | 2561 | 2.561E-06 | 1.485E-05 | 200 |
| 102.0 | 7.0 | 2601 | 2.602E-06 | 1.509E-05 | 200 |
| 102.0 | 8.5 | 3650 | 3.650E-06 | 2.117E-05 | 200 |
| 102.0 | 10.0 | 6857 | 6.857E-06 | 3.977E-05 | 200 |
| 102.0 | 13.0 | 6137 | 6.137E-06 | 3.560E-05 | 200 |
| 102.0 | 16.0 | 7788 | 7.788E-06 | 4.517E-05 | 200 |
| 102.0 | 19.0 | 11732 | 1.173E-05 | 6.805E-05 | 200 |
| 102.0 | 22.0 | 13178 | 1.318E-05 | 7.643E-05 | 200 |
| 102.0 | 25.0 | 12106 | 1.211E-05 | 7.022E-05 | 200 |
| 102.0 | 28.0 | 8014 | 8.014E-06 | 4.648E-05 | 200 |
| 102.0 | 31.0 | 7262 | 7.262E-06 | 4.212E-05 | 200 |
| 102.0 | 32.8 | 6920 | 6.921E-06 | 4.014E-05 | 200 |

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 102.0 | .4 | 90 | 9.080E-07 | 5.266E-06 | 200 |
| 102.0 | .8 | 72 | 7.300E-07 | 4.234E-06 | 200 |
| 102.0 | 1.5 | 72 | 7.300E-07 | 4.234E-06 | 200 |
| 102.0 | 2.5 | 62 | 6.231E-07 | 3.614E-06 | 200 |
| 102.0 | 4.0 | 80 | 8.012E-07 | 4.647E-06 | 200 |
| 102.0 | 5.5 | 97 | 9.792E-07 | 5.679E-06 | 200 |
| 102.0 | 7.0 | 112 | 1.122E-06 | 6.506E-06 | 200 |
| 102.0 | 8.5 | 136 | 1.369E-06 | 1.084E-05 | 200 |
| 102.0 | 10.0 | 272 | 2.724E-06 | 1.580E-05 | 200 |
| 102.0 | 13.0 | 283 | 2.831E-06 | 1.642E-05 | 200 |
| 2 102.0 | 16.0 | 614 | 6.142E-06 | 3.563E-05 | 200 |
| L 102.0 | 19.0 | 0 | 0. | 0. | 200 |
| L 102.0 | 22.0 | 0 | 0. | 0. | 200 |
| 102.0 | 25.0 | 635 | 6.356E-06 | 3.687E-05 | 200 |
| 102.0 | 28.0 | 528 | 5.288E-06 | 3.067E-05 | 200 |
| 102.0 | 31.0 | 493 | 4.932E-06 | 2.860E-05 | 200 |
| 102.0 | 32.8 | 421 | 4.220E-06 | 2.447E-05 | 200 |

1202075



V1

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 110.0 | .4 | 3443 | 3.443E-06 | 1.997E-05 | 200 |
| 0 110.0 | .8 | 2543 | 2.544E-06 | 1.475E-05 | 200 |
| 110.0 | 1.5 | 5903 | 5.904E-06 | 3.424E-05 | 200 |
| 110.0 | 2.5 | 3598 | 3.599E-06 | 2.087E-05 | 200 |
| 110.0 | 4.0 | 6024 | 6.025E-06 | 3.494E-05 | 200 |
| 110.0 | 5.5 | 4325 | 4.325E-06 | 2.509E-05 | 200 |
| 110.0 | 7.0 | 7191 | 7.192E-06 | 4.171E-05 | 200 |
| 110.0 | 8.5 | 9309 | 9.309E-06 | 5.399E-05 | 200 |
| 110.0 | 10.0 | 13762 | 1.376E-05 | 7.982E-05 | 200 |
| 110.0 | 13.0 | 15469 | 1.547E-05 | 8.972E-05 | 200 |
| 110.0 | 16.0 | 14186 | 1.419E-05 | 8.228E-05 | 200 |
| 110.0 | 19.0 | 8514 | 8.515E-06 | 4.939E-05 | 200 |
| 110.0 | 22.0 | 18824 | 1.882E-05 | 1.092E-04 | 200 |
| 110.0 | 25.0 | 17952 | 1.795E-05 | 1.041E-04 | 200 |
| 110.0 | 28.0 | 13435 | 1.344E-05 | 7.793E-05 | 200 |
| 110.0 | 31.0 | 14731 | 1.473E-05 | 8.544E-05 | 200 |
| 110.0 | 32.8 | 13473 | 1.347E-05 | 7.814E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 110.0 | .4 | 218 | 2.190E-06 | 1.270E-05 | 200 |
| 0 110.0 | .8 | 144 | 1.442E-06 | 8.364E-06 | 200 |
| 110.0 | 1.5 | 272 | 2.724E-06 | 1.580E-05 | 200 |
| 110.0 | 2.5 | 133 | 1.335E-06 | 7.745E-06 | 200 |
| 110.0 | 4.0 | 197 | 1.970E-06 | 1.146E-05 | 200 |
| 110.0 | 5.5 | 165 | 1.656E-06 | 9.604E-06 | 200 |
| 110.0 | 7.0 | 283 | 2.831E-06 | 1.642E-05 | 200 |
| 110.0 | 8.5 | 347 | 3.472E-06 | 2.014E-05 | 200 |
| 110.0 | 10.0 | 486 | 4.861E-06 | 2.819E-05 | 200 |
| 110.0 | 13.0 | 599 | 6.000E-06 | 3.480E-05 | 200 |
| 110.0 | 16.0 | 635 | 6.356E-06 | 3.687E-05 | 200 |
| 110.0 | 19.0 | 315 | 3.151E-06 | 1.828E-05 | 200 |
| 110.0 | 22.0 | 778 | 7.780E-06 | 4.513E-05 | 200 |
| 110.0 | 25.0 | 706 | 7.068E-06 | 4.100E-05 | 200 |
| 110.0 | 28.0 | 635 | 6.356E-06 | 3.687E-05 | 200 |
| 110.0 | 31.0 | 671 | 6.712E-06 | 3.893E-05 | 200 |
| 110.0 | 32.8 | 635 | 6.356E-06 | 3.687E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 3220 | 3.221E-06 | 1.868E-05 | 200 |
| 118.0 | .8 | 4861 | 4.864E-06 | 2.820E-05 | 200 |
| 118.0 | 1.5 | 3322 | 3.322E-06 | 1.927E-05 | 200 |
| 118.0 | 2.5 | 4140 | 4.140E-06 | 2.401E-05 | 200 |
| S 118.0 | 4.0 | 4559 | 4.559E-06 | 2.644E-05 | 200 |
| 118.0 | 5.5 | 6664 | 6.664E-06 | 3.865E-05 | 200 |
| 118.0 | 7.0 | 11008 | 1.101E-05 | 6.385E-05 | 200 |
| 118.0 | 8.5 | 11481 | 1.148E-05 | 6.659E-05 | 200 |
| 118.0 | 10.0 | 17395 | 1.740E-05 | 1.009E-04 | 200 |
| 118.0 | 13.0 | 23295 | 2.330E-05 | 1.351E-04 | 200 |
| 118.0 | 16.0 | 20408 | 2.041E-05 | 1.184E-04 | 200 |
| E 118.0 | 19.0 | 18615 | 1.862E-05 | 1.080E-04 | 200 |
| 118.0 | 22.0 | 16852 | 1.685E-05 | 9.774E-05 | 200 |
| 118.0 | 25.0 | 17964 | 1.796E-05 | 1.042E-04 | 200 |
| 118.0 | 28.0 | 15706 | 1.571E-05 | 9.110E-05 | 200 |
| 118.0 | 31.0 | 9999 | 9.999E-06 | 5.799E-05 | 200 |
| 118.0 | 32.8 | 8626 | 8.626E-06 | 5.003E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 97 | 9.792E-07 | 5.679E-06 | 200 |
| 118.0 | .8 | 115 | 1.157E-06 | 6.712E-06 | 200 |
| 118.0 | 1.5 | 117 | 1.172E-06 | 6.906E-06 | 200 |
| 118.0 | 2.5 | 140 | 1.407E-06 | 8.158E-06 | 200 |
| S 118.0 | 4.0 | 108 | 1.086E-06 | 6.299E-06 | 200 |
| 118.0 | 5.5 | 165 | 1.656E-06 | 9.604E-06 | 200 |
| 118.0 | 7.0 | 325 | 3.256E-06 | 1.890E-05 | 200 |
| 118.0 | 8.5 | 368 | 3.685E-06 | 2.136E-05 | 200 |
| 118.0 | 10.0 | 635 | 6.356E-06 | 3.687E-05 | 200 |
| 118.0 | 13.0 | 778 | 7.780E-06 | 4.513E-05 | 200 |
| Z 118.0 | 16.0 | 1027 | 1.027E-05 | 5.958E-05 | 200 |
| L 118.0 | 19.0 | 0 | 0. | 0. | 200 |
| 118.0 | 22.0 | 671 | 6.712E-06 | 3.893E-05 | 200 |
| 118.0 | 25.0 | 635 | 6.356E-06 | 3.687E-05 | 200 |
| 118.0 | 28.0 | 635 | 6.356E-06 | 3.687E-05 | 200 |
| 118.0 | 31.0 | 421 | 4.220E-06 | 2.447E-05 | 200 |
| 118.0 | 32.8 | 350 | 3.507E-06 | 2.034E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 126.0 | .4 | 774 | 7.743E-07 | 4.491E-06 | 200 |
| 0 126.0 | .8 | 320 | 3.206E-07 | 1.860E-06 | 200 |
| 126.0 | 1.5 | 520 | 5.205E-07 | 3.019E-06 | 200 |
| 126.0 | 2.5 | 1091 | 1.091E-06 | 6.328E-06 | 200 |
| 126.0 | 4.0 | 1593 | 1.594E-06 | 9.244E-06 | 200 |
| 126.0 | 5.5 | 1321 | 1.321E-06 | 7.662E-06 | 200 |
| 126.0 | 7.0 | 2664 | 2.685E-06 | 1.557E-05 | 200 |
| 126.0 | 8.5 | 3335 | 3.335E-06 | 1.934E-05 | 200 |
| 126.0 | 10.0 | 3706 | 3.707E-06 | 2.150E-05 | 200 |
| S 126.0 | 13.0 | 2986 | 2.989E-06 | 1.733E-05 | 200 |
| 126.0 | 16.0 | 5877 | 5.887E-06 | 3.415E-05 | 200 |
| 126.0 | 19.0 | 4892 | 4.892E-06 | 2.837E-05 | 200 |
| 126.0 | 22.0 | 4444 | 4.444E-06 | 2.578E-05 | 200 |
| 126.0 | 25.0 | 4376 | 4.376E-06 | 2.538E-05 | 200 |
| 126.0 | 28.0 | 4921 | 4.921E-06 | 2.854E-05 | 200 |
| 126.0 | 31.0 | 4763 | 4.763E-06 | 2.763E-05 | 200 |
| 126.0 | 32.8 | 3569 | 3.569E-06 | 2.070E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 126.0 | .4 | 0 | 0. | 0. | 200 |
| 0 126.0 | .8 | 12 | 1.282E-07 | 7.435E-07 | 200 |
| 126.0 | 1.5 | 41 | 4.166E-07 | 2.416E-06 | 200 |
| 126.0 | 2.5 | 30 | 3.096E-07 | 1.797E-06 | 200 |
| 126.0 | 4.0 | 36 | 3.632E-07 | 2.107E-06 | 200 |
| 126.0 | 5.5 | 44 | 4.451E-07 | 2.582E-06 | 200 |
| 126.0 | 7.0 | 55 | 5.519E-07 | 3.203E-06 | 200 |
| 126.0 | 8.5 | 65 | 6.588E-07 | 3.821E-06 | 200 |
| 126.0 | 10.0 | 105 | 1.050E-06 | 6.093E-06 | 200 |
| S 126.0 | 13.0 | 112 | 1.122E-06 | 6.506E-06 | 200 |
| 126.0 | 16.0 | 144 | 1.442E-06 | 8.364E-06 | 200 |
| 126.0 | 19.0 | 176 | 1.763E-06 | 1.022E-05 | 200 |
| 126.0 | 22.0 | 154 | 1.549E-06 | 8.984E-06 | 200 |
| 126.0 | 25.0 | 176 | 1.763E-06 | 1.022E-05 | 200 |
| 126.0 | 28.0 | 186 | 1.869E-06 | 1.084E-05 | 200 |
| 126.0 | 31.0 | 251 | 2.510E-06 | 1.456E-05 | 200 |
| 126.0 | 32.8 | 154 | 1.549E-06 | 8.984E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 258 | 2.585E-07 | 1.500E-06 | 200 |
| 134.0 | .8 | 62 | 6.126E-08 | 3.553E-07 | 200 |
| 134.0 | 1.5 | 106 | 1.061E-07 | 6.154E-07 | 200 |
| 134.0 | 2.5 | 43 | 4.376E-08 | 2.538E-07 | 200 |
| 134.0 | 4.0 | 107 | 1.080E-07 | 6.263E-07 | 200 |
| 134.0 | 5.5 | 55 | 5.549E-08 | 3.219E-07 | 200 |
| 134.0 | 7.0 | 85 | 8.522E-08 | 4.943E-07 | 200 |
| 134.0 | 8.5 | 205 | 2.050E-07 | 1.189E-06 | 200 |
| 134.0 | 10.0 | 89 | 8.999E-08 | 5.219E-07 | 200 |
| 134.0 | 13.0 | 156 | 1.569E-07 | 9.103E-07 | 200 |
| 134.0 | 16.0 | 323 | 3.237E-07 | 1.877E-06 | 200 |
| 134.0 | 19.0 | 541 | 5.414E-07 | 3.140E-06 | 200 |
| 134.0 | 22.0 | 654 | 6.542E-07 | 3.794E-06 | 200 |
| 134.0 | 25.0 | 541 | 5.415E-07 | 3.141E-06 | 200 |
| 134.0 | 28.0 | 850 | 8.506E-07 | 4.933E-06 | 200 |
| 134.0 | 31.0 | 981 | 9.818E-07 | 5.694E-06 | 200 |
| 134.0 | 32.8 | 558 | 5.581E-07 | 3.237E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 0 | 0. | 0. | 200 |
| 134.0 | .8 | 0 | 0. | 0. | 200 |
| 134.0 | 1.5 | 0 | 0. | 0. | 200 |
| 134.0 | 2.5 | 0 | 0. | 0. | 200 |
| 134.0 | 4.0 | 0 | 0. | 0. | 200 |
| 134.0 | 5.5 | 0 | 0. | 0. | 200 |
| 134.0 | 7.0 | 0 | 0. | 0. | 200 |
| 134.0 | 8.5 | 0 | 0. | 0. | 200 |
| 134.0 | 10.0 | 0 | 0. | 0. | 200 |
| L 134.0 | 13.0 | 0 | 0. | 0. | 200 |
| 134.0 | 16.0 | 0 | 7.122E-09 | 4.131E-08 | 200 |
| 134.0 | 19.0 | 0 | 0. | 0. | 200 |
| 134.0 | 22.0 | 0 | 0. | 0. | 200 |
| 134.0 | 25.0 | 0 | 0. | 0. | 200 |
| 134.0 | 28.0 | 0 | 0. | 0. | 200 |
| 134.0 | 31.0 | 3 | 3.205E-08 | 1.859E-07 | 200 |
| 134.0 | 32.8 | 0 | 3.561E-09 | 2.065E-08 | 200 |

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 105.0 | .3 | 1997 | 1.997E-06 | 1.158E-05 | #20 |
| 105.0 | .5 | 1435 | 1.436E-06 | 8.327E-06 | #20 |
| 105.0 | 1.1 | 1603 | 1.603E-06 | 9.300E-06 | #20 |
| 105.0 | 1.5 | 693 | 6.930E-07 | 4.020E-06 | #20 |
| 105.0 | 2.1 | 1935 | 1.936E-06 | 1.123E-05 | #20 |
| 105.0 | 4.2 | 1305 | 1.305E-06 | 7.572E-06 | #20 |
| 105.0 | 6.3 | 1270 | 1.270E-06 | 7.367E-06 | #20 |
| 105.0 | 8.4 | 1336 | 1.337E-06 | 7.753E-06 | #20 |
| 105.0 | 10.5 | 1238 | 1.239E-06 | 7.185E-06 | #20 |
| 105.0 | 12.6 | 974 | 9.746E-07 | 5.653E-06 | #20 |
| 105.0 | 14.7 | 1031 | 1.032E-06 | 5.983E-06 | #20 |
| 105.0 | 16.8 | 996 | 9.960E-07 | 5.777E-06 | #20 |
| 105.0 | 21.0 | 1094 | 1.094E-06 | 6.345E-06 | #20 |
| 105.0 | 25.2 | 827 | 8.271E-07 | 4.797E-06 | #20 |
| 105.0 | 29.4 | 890 | 8.907E-07 | 5.166E-06 | #20 |
| 105.0 | 33.6 | 807 | 8.077E-07 | 4.684E-06 | #20 |
| 105.0 | 37.8 | 725 | 7.251E-07 | 4.206E-06 | #20 |
| 105.0 | 42.0 | 496 | 4.965E-07 | 2.880E-06 | #20 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 1935 | 1.935E-06 | 1.122E-05 | #33 |
| 112.6 | .5 | 1607 | 1.608E-06 | 9.325E-06 | #33 |
| 112.6 | 1.1 | 1549 | 1.550E-06 | 8.989E-06 | #33 |
| 112.6 | 1.5 | 1035 | 1.035E-06 | 6.004E-06 | #33 |
| 112.6 | 2.1 | 1227 | 1.227E-06 | 7.117E-06 | #33 |
| 112.6 | 4.2 | 1621 | 1.621E-06 | 9.404E-06 | #33 |
| 112.6 | 6.3 | 1191 | 1.191E-06 | 6.910E-06 | #33 |
| 112.6 | 8.4 | 1360 | 1.360E-06 | 7.889E-06 | #33 |
| 112.6 | 10.5 | 1661 | 1.661E-06 | 9.635E-06 | #33 |
| 112.6 | 12.6 | 1423 | 1.424E-06 | 8.256E-06 | #33 |
| E 112.6 | 14.7 | 1431 | 1.432E-06 | 8.304E-06 | #33 |
| 112.6 | 16.8 | 1478 | 1.476E-06 | 8.575E-06 | #33 |
| E 112.6 | 21.0 | 1361 | 1.362E-06 | 7.897E-06 | #33 |
| 112.6 | 25.2 | 1291 | 1.292E-06 | 7.493E-06 | #33 |
| 112.6 | 29.4 | 1128 | 1.129E-06 | 6.548E-06 | #33 |
| 112.6 | 33.6 | 1402 | 1.403E-06 | 8.136E-06 | #33 |
| 112.6 | 37.8 | 1219 | 1.219E-06 | 7.073E-06 | #33 |
| 112.6 | 42.0 | 1203 | 1.203E-06 | 6.978E-06 | #33 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 1699 | 1.700E-06 | 9.857E-06 | #45 |
| 120.2 | .5 | 1308 | 1.308E-06 | 7.587E-06 | #45 |
| 120.2 | 1.1 | 1544 | 1.545E-06 | 8.960E-06 | #45 |
| 120.2 | 1.5 | 1322 | 1.322E-06 | 7.668E-06 | #45 |
| 120.2 | 2.1 | 1054 | 1.054E-06 | 6.116E-06 | #45 |
| 120.2 | 4.2 | 1089 | 1.089E-06 | 6.318E-06 | #45 |
| 120.2 | 6.3 | 1194 | 1.194E-06 | 6.927E-06 | #45 |
| 120.2 | 8.4 | 1192 | 1.192E-06 | 6.915E-06 | #45 |
| 120.2 | 10.5 | 1219 | 1.220E-06 | 7.075E-06 | #45 |
| 120.2 | 12.6 | 1118 | 1.118E-06 | 6.486E-06 | #45 |
| S 120.2 | 14.7 | 766 | 7.665E-07 | 4.444E-06 | #45 |
| 120.2 | 16.8 | 1396 | 1.396E-06 | 8.098E-06 | #45 |
| 120.2 | 21.0 | 1282 | 1.282E-06 | 7.437E-06 | #45 |
| 120.2 | 25.2 | 1367 | 1.366E-06 | 7.932E-06 | #45 |
| 120.2 | 29.4 | 849 | 8.494E-07 | 4.926E-06 | #45 |
| 120.2 | 33.6 | 1304 | 1.304E-06 | 7.565E-06 | #45 |
| 120.2 | 37.8 | 1356 | 1.356E-06 | 7.866E-06 | #45 |
| 120.2 | 42.0 | 1225 | 1.225E-06 | 7.106E-06 | #45 |

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 105.0 | .3 | 63 | 6.372E-07 | 3.696E-06 | #20 |
| 105.0 | .5 | 43 | 4.306E-07 | 2.497E-06 | #20 |
| 105.0 | 1.1 | 53 | 5.339E-07 | 3.097E-06 | #20 |
| 105.0 | 1.5 | 80 | 8.096E-07 | 4.695E-06 | #20 |
| 105.0 | 2.1 | 56 | 5.683E-07 | 3.296E-06 | #20 |
| 105.0 | 4.2 | 53 | 5.339E-07 | 3.097E-06 | #20 |
| 105.0 | 6.3 | 53 | 5.339E-07 | 3.097E-06 | #20 |
| 105.0 | 8.4 | 56 | 5.683E-07 | 3.296E-06 | #20 |
| 105.0 | 10.5 | 46 | 4.650E-07 | 2.697E-06 | #20 |
| 105.0 | 12.6 | 46 | 4.650E-07 | 2.697E-06 | #20 |
| 105.0 | 14.7 | 43 | 4.306E-07 | 2.497E-06 | #20 |
| 105.0 | 16.8 | 22 | 2.239E-07 | 1.299E-06 | #20 |
| 105.0 | 21.0 | 29 | 2.926E-07 | 1.698E-06 | #20 |
| 105.0 | 25.2 | 22 | 2.239E-07 | 1.299E-06 | #20 |
| 105.0 | 29.4 | 18 | 1.894E-07 | 1.099E-06 | #20 |
| 105.0 | 33.6 | 22 | 2.239E-07 | 1.299E-06 | #20 |
| 105.0 | 37.8 | 22 | 2.239E-07 | 1.299E-06 | #20 |
| 105.0 | 42.0 | 25 | 2.583E-07 | 1.498E-06 | #20 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 67 | 6.717E-07 | 3.896E-06 | #33 |
| 112.6 | .5 | 63 | 6.372E-07 | 3.696E-06 | #33 |
| 112.6 | 1.1 | 53 | 5.339E-07 | 3.097E-06 | #33 |
| 112.6 | 1.5 | 84 | 8.439E-07 | 4.895E-06 | #33 |
| 112.6 | 2.1 | 60 | 6.028E-07 | 3.496E-06 | #33 |
| 112.6 | 4.2 | 74 | 7.406E-07 | 4.295E-06 | #33 |
| 112.6 | 6.3 | 67 | 6.717E-07 | 3.896E-06 | #33 |
| 112.6 | 8.4 | 70 | 7.061E-07 | 4.095E-06 | #33 |
| 112.6 | 10.5 | 74 | 7.406E-07 | 4.295E-06 | #33 |
| 112.6 | 12.6 | 67 | 6.717E-07 | 3.896E-06 | #33 |
| T 112.6 | 14.7 | 0 | 0. | 0. | #33 |
| 112.6 | 16.8 | 74 | 7.406E-07 | 4.295E-06 | #33 |
| T 112.6 | 21.0 | 6 | 6.544E-08 | 3.796E-07 | #33 |
| 112.6 | 25.2 | 70 | 7.061E-07 | 4.095E-06 | #33 |
| 112.6 | 29.4 | 60 | 6.028E-07 | 3.496E-06 | #33 |
| 112.6 | 33.6 | 60 | 6.028E-07 | 3.496E-06 | #33 |
| 112.6 | 37.8 | 49 | 4.994E-07 | 2.897E-06 | #33 |
| 112.6 | 42.0 | 46 | 4.650E-07 | 2.697E-06 | #33 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 46 | 4.650E-07 | 2.697E-06 | #45 |
| 120.2 | .5 | 49 | 4.994E-07 | 2.897E-06 | #45 |
| 120.2 | 1.1 | 53 | 5.339E-07 | 3.097E-06 | #45 |
| 120.2 | 1.5 | 63 | 6.372E-07 | 3.696E-06 | #45 |
| 120.2 | 2.1 | 53 | 5.339E-07 | 3.097E-06 | #45 |
| 120.2 | 4.2 | 53 | 5.339E-07 | 3.097E-06 | #45 |
| 120.2 | 6.3 | 46 | 4.650E-07 | 2.697E-06 | #45 |
| 120.2 | 8.4 | 53 | 5.339E-07 | 3.097E-06 | #45 |
| 120.2 | 10.5 | 53 | 5.339E-07 | 3.097E-06 | #45 |
| 120.2 | 12.6 | 53 | 5.339E-07 | 3.097E-06 | #45 |
| S 120.2 | 14.7 | 18 | 1.894E-07 | 1.099E-06 | #45 |
| 120.2 | 16.8 | 56 | 5.683E-07 | 3.296E-06 | #45 |
| 120.2 | 21.0 | 56 | 5.683E-07 | 3.296E-06 | #45 |
| 120.2 | 25.2 | 56 | 5.683E-07 | 3.296E-06 | #45 |
| 120.2 | 29.4 | 36 | 3.617E-07 | 2.096E-06 | #45 |
| 120.2 | 33.6 | 53 | 5.339E-07 | 3.097E-06 | #45 |
| 120.2 | 37.8 | 56 | 5.683E-07 | 3.296E-06 | #45 |
| 120.2 | 42.0 | 56 | 5.683E-07 | 3.296E-06 | #45 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 269 | 2.693E-07 | 1.562E-06 | 857 |
| 127.7 | .5 | 257 | 2.576E-07 | 1.494E-06 | 857 |
| 127.7 | 1.1 | 332 | 3.322E-07 | 1.927E-06 | 857 |
| 127.7 | 1.5 | 142 | 1.421E-07 | 8.243E-07 | 857 |
| 127.7 | 2.1 | 168 | 1.687E-07 | 9.782E-07 | 857 |
| 127.7 | 4.2 | 216 | 2.167E-07 | 1.257E-06 | 857 |
| 127.7 | 6.3 | 233 | 2.335E-07 | 1.354E-06 | 857 |
| 127.7 | 8.4 | 258 | 2.588E-07 | 1.501E-06 | 857 |
| 127.7 | 10.5 | 240 | 2.405E-07 | 1.395E-06 | 857 |
| 127.7 | 12.6 | 197 | 1.975E-07 | 1.146E-06 | 857 |
| 127.7 | 14.7 | 225 | 2.255E-07 | 1.308E-06 | 857 |
| 127.7 | 16.8 | 365 | 3.651E-07 | 2.118E-06 | 857 |
| 127.7 | 21.0 | 220 | 2.205E-07 | 1.279E-06 | 857 |
| 127.7 | 25.2 | 266 | 2.670E-07 | 1.548E-06 | 857 |
| 127.7 | 29.4 | 341 | 3.410E-07 | 1.978E-06 | 857 |
| 127.7 | 33.6 | 315 | 3.158E-07 | 1.831E-06 | 857 |
| 127.7 | 37.8 | 328 | 3.282E-07 | 1.904E-06 | 857 |
| 127.7 | 42.0 | 200 | 2.008E-07 | 1.164E-06 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 4 | 4.133E-08 | 2.397E-07 | 857 |
| 127.7 | .5 | 3 | 3.789E-08 | 2.198E-07 | 857 |
| 127.7 | 1.1 | 3 | 3.789E-08 | 2.198E-07 | 857 |
| 127.7 | 1.5 | 13 | 1.343E-07 | 7.791E-07 | 857 |
| 127.7 | 2.1 | 4 | 4.822E-08 | 2.797E-07 | 857 |
| 127.7 | 4.2 | 3 | 3.789E-08 | 2.198E-07 | 857 |
| 127.7 | 6.3 | 5 | 5.856E-08 | 3.396E-07 | 857 |
| 127.7 | 8.4 | 5 | 5.856E-08 | 3.396E-07 | 857 |
| 127.7 | 10.5 | 5 | 5.856E-08 | 3.396E-07 | 857 |
| 127.7 | 12.6 | 5 | 5.511E-08 | 3.196E-07 | 857 |
| 127.7 | 14.7 | 6 | 6.200E-08 | 3.596E-07 | 857 |
| 127.7 | 16.8 | 7 | 7.922E-08 | 4.595E-07 | 857 |
| 127.7 | 21.0 | 9 | 9.300E-08 | 5.394E-07 | 857 |
| 127.7 | 25.2 | 10 | 1.033E-07 | 5.993E-07 | 857 |
| 127.7 | 29.4 | 11 | 1.137E-07 | 6.593E-07 | 857 |
| 127.7 | 33.6 | 11 | 1.137E-07 | 6.593E-07 | 857 |
| 127.7 | 37.8 | 10 | 1.033E-07 | 5.993E-07 | 857 |
| 127.7 | 42.0 | 10 | 1.033E-07 | 5.993E-07 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 33 | 3.367E-08 | 1.953E-07 | 867 |
| 135.0 | .5 | 25 | 2.576E-08 | 1.494E-07 | 867 |
| L 135.0 | 1.1 | 0 | 0. | 0. | 867 |
| B 135.0 | 1.5 | 15 | 1.579E-08 | 9.156E-08 | 867 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 135.0 | .3 | 0 | 0. | 0. | 867 |

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 101.6 | .2 | 109 | 1.092E-07 | 6.336E-07 | 1617 |
| 101.6 | .4 | 142 | 1.429E-07 | 8.291E-07 | 1617 |
| 101.6 | .8 | 98 | 9.885E-08 | 5.733E-07 | 1617 |
| 101.6 | 1.5 | 79 | 7.984E-08 | 4.631E-07 | 1617 |
| C 101.6 | 1.6 | 73 | 7.351E-08 | 4.264E-07 | 1617 |
| C 101.6 | 3.1 | 97 | 9.780E-08 | 5.672E-07 | 1617 |
| C 101.6 | 6.2 | 72 | 7.266E-08 | 4.215E-07 | 1617 |
| C 101.6 | 9.3 | 83 | 8.377E-08 | 4.829E-07 | 1617 |
| C 101.6 | 12.4 | 59 | 5.995E-08 | 3.477E-07 | 1617 |
| C 101.6 | 15.5 | 73 | 7.324E-08 | 4.246E-07 | 1617 |
| C 101.6 | 18.6 | 83 | 8.378E-08 | 4.859E-07 | 1617 |
| C 101.6 | 21.7 | 132 | 1.327E-07 | 7.699E-07 | 1617 |
| H 101.6 | 24.8 | 57 | 5.749E-08 | 3.335E-07 | 1617 |
| H 101.6 | 31.0 | 164 | 1.649E-07 | 9.561E-07 | 1617 |
| H 101.6 | 37.2 | 89 | 8.992E-08 | 5.215E-07 | 1617 |
| H 101.6 | 43.4 | 72 | 7.256E-08 | 4.208E-07 | 1617 |
| H 101.6 | 49.6 | 132 | 1.327E-07 | 7.698E-07 | 1617 |
| H 101.6 | 55.8 | 103 | 1.032E-07 | 5.987E-07 | 1617 |
| H 101.6 | 62.0 | 77 | 7.762E-08 | 4.502E-07 | 1617 |

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
FLUORESCINE B RELEASE FROM ELEVATION OF 26M
1600M ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| F 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 109.5 | .2 | 421 | 4.219E-07 | 2.447E-06 | 1630 |
| 109.5 | .4 | 352 | 3.527E-07 | 2.046E-06 | 1630 |
| 109.5 | .8 | 462 | 4.626E-07 | 2.683E-06 | 1630 |
| 109.5 | 1.5 | 410 | 4.107E-07 | 2.382E-06 | 1630 |
| 109.5 | 1.6 | 282 | 2.821E-07 | 1.636E-06 | 1630 |
| 109.5 | 3.1 | 222 | 2.229E-07 | 1.293E-06 | 1630 |
| 109.5 | 6.2 | 360 | 3.609E-07 | 2.093E-06 | 1630 |
| 109.5 | 9.3 | 374 | 3.745E-07 | 2.172E-06 | 1630 |
| 109.5 | 12.4 | 303 | 3.036E-07 | 1.762E-06 | 1630 |
| 109.5 | 15.5 | 358 | 3.587E-07 | 2.080E-06 | 1630 |
| 109.5 | 18.6 | 373 | 3.736E-07 | 2.167E-06 | 1630 |
| 109.5 | 21.7 | 406 | 4.067E-07 | 2.359E-06 | 1630 |
| 109.5 | 24.8 | 328 | 3.285E-07 | 1.905E-06 | 1630 |
| 109.5 | 31.0 | 332 | 3.321E-07 | 1.926E-06 | 1630 |
| 109.5 | 37.2 | 327 | 3.273E-07 | 1.898E-06 | 1630 |
| 109.5 | 43.4 | 349 | 3.493E-07 | 2.026E-06 | 1630 |
| 109.5 | 49.6 | 293 | 2.930E-07 | 1.699E-06 | 1630 |
| 109.5 | 55.8 | 369 | 3.698E-07 | 2.145E-06 | 1630 |
| 109.5 | 62.0 | 310 | 3.101E-07 | 1.798E-06 | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 109.5 | .2 | 3 | 3.634E-08 | 2.108E-07 | 1630 |
| 109.5 | .4 | 2 | 2.044E-08 | 1.186E-07 | 1630 |
| 109.5 | .8 | 5 | 5.225E-08 | 3.030E-07 | 1630 |
| 109.5 | 1.5 | 10 | 1.022E-07 | 5.929E-07 | 1630 |
| 109.5 | 1.6 | 8 | 8.178E-08 | 4.743E-07 | 1630 |
| 109.5 | 3.1 | 8 | 8.178E-08 | 4.743E-07 | 1630 |
| 109.5 | 6.2 | 8 | 8.859E-08 | 5.138E-07 | 1630 |
| 109.5 | 9.3 | 7 | 7.496E-08 | 4.348E-07 | 1630 |
| 109.5 | 12.4 | 7 | 7.496E-08 | 4.348E-07 | 1630 |
| 109.5 | 15.5 | 12 | 1.295E-07 | 7.510E-07 | 1630 |
| 109.5 | 18.6 | 7 | 7.496E-08 | 4.348E-07 | 1630 |
| 109.5 | 21.7 | 7 | 7.496E-08 | 4.348E-07 | 1630 |
| 109.5 | 24.8 | 6 | 6.859E-08 | 5.138E-07 | 1630 |
| 109.5 | 31.0 | 9 | 9.541E-08 | 5.533E-07 | 1630 |
| 109.5 | 37.2 | 8 | 8.178E-08 | 4.743E-07 | 1630 |
| 109.5 | 43.4 | 5 | 5.452E-08 | 3.162E-07 | 1630 |
| 109.5 | 49.6 | 4 | 4.089E-08 | 2.372E-07 | 1630 |
| 109.5 | 55.8 | 9 | 9.541E-08 | 5.533E-07 | 1630 |
| 109.5 | 62.0 | 9 | 9.541E-08 | 5.533E-07 | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 296 | 2.966E-07 | 1.720E-06 | 1643 |
| 117.3 | .4 | 463 | 4.635E-07 | 2.688E-06 | 1643 |
| 117.3 | .8 | 281 | 2.819E-07 | 1.635E-06 | 1643 |
| 117.3 | 1.5 | 338 | 3.390E-07 | 1.966E-06 | 1643 |
| 117.3 | 1.6 | 398 | 3.980E-07 | 2.309E-06 | 1643 |
| 117.3 | 3.1 | 359 | 3.595E-07 | 2.085E-06 | 1643 |
| 117.3 | 6.2 | 372 | 3.727E-07 | 2.161E-06 | 1643 |
| 117.3 | 12.4 | 408 | 4.088E-07 | 2.371E-06 | 1643 |
| 117.3 | 15.5 | 426 | 4.262E-07 | 2.472E-06 | 1643 |
| 117.3 | 18.6 | 320 | 3.200E-07 | 1.856E-06 | 1643 |
| 117.3 | 21.7 | 497 | 4.980E-07 | 2.888E-06 | 1643 |
| 117.3 | 24.8 | 376 | 3.767E-07 | 2.185E-06 | 1643 |
| 117.3 | 31.0 | 411 | 4.115E-07 | 2.387E-06 | 1643 |
| 117.3 | 37.2 | 377 | 3.779E-07 | 2.192E-06 | 1643 |
| 117.3 | 43.4 | 319 | 3.200E-07 | 1.856E-06 | 1643 |
| 117.3 | 49.6 | 221 | 2.212E-07 | 1.283E-06 | 1643 |
| 117.3 | 55.8 | 401 | 4.017E-07 | 2.330E-06 | 1643 |
| 117.3 | 62.0 | 135 | 1.351E-07 | 7.833E-07 | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 8 | 8.859E-08 | 5.138E-07 | 1643 |
| 117.3 | .4 | 6 | 6.133E-08 | 3.557E-07 | 1643 |
| 117.3 | .8 | 6 | 6.133E-08 | 3.557E-07 | 1643 |
| 117.3 | 1.5 | 12 | 1.227E-07 | 7.114E-07 | 1643 |
| 117.3 | 1.6 | 4 | 4.770E-08 | 2.767E-07 | 1643 |
| 117.3 | 3.1 | 7 | 7.496E-08 | 4.348E-07 | 1643 |
| 117.3 | 6.2 | 8 | 8.176E-08 | 4.743E-07 | 1643 |
| 117.3 | 9.3 | 8 | 8.859E-08 | 5.138E-07 | 1643 |
| 117.3 | 12.4 | 6 | 6.815E-08 | 3.953E-07 | 1643 |
| Z 117.3 | 15.5 | 19 | 1.908E-07 | 1.107E-06 | 1643 |
| 117.3 | 18.6 | 9 | 9.541E-08 | 5.533E-07 | 1643 |
| 117.3 | 21.7 | 7 | 7.496E-08 | 4.348E-07 | 1643 |
| 117.3 | 24.8 | 10 | 1.022E-07 | 5.929E-07 | 1643 |
| 117.3 | 31.0 | 10 | 1.022E-07 | 5.929E-07 | 1643 |
| 117.3 | 37.2 | 11 | 1.150E-07 | 6.719E-07 | 1643 |
| 117.3 | 43.4 | 9 | 9.541E-08 | 5.533E-07 | 1643 |
| 117.3 | 49.6 | 3 | 3.407E-08 | 1.976E-07 | 1643 |
| 117.3 | 55.8 | 8 | 8.859E-08 | 5.138E-07 | 1643 |
| 117.3 | 62.0 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 125.0 | .2 | 116 | 1.163E-07 | 6.740E-07 | 1655 |
| 125.0 | .4 | 151 | 1.514E-07 | 8.781E-07 | 1655 |
| 125.0 | .8 | 168 | 1.684E-07 | 9.765E-07 | 1655 |
| 125.0 | 1.5 | 135 | 1.360E-07 | 7.888E-07 | 1655 |
| Z 125.0 | 1.6 | 169 | 1.695E-07 | 9.834E-07 | 1655 |
| 125.0 | 3.1 | 177 | 1.770E-07 | 1.027E-06 | 1655 |
| 125.0 | 6.2 | 151 | 1.512E-07 | 8.771E-07 | 1655 |
| 125.0 | 9.3 | 164 | 1.642E-07 | 9.522E-07 | 1655 |
| Z 125.0 | 12.4 | 136 | 1.362E-07 | 7.895E-07 | 1655 |
| 125.0 | 15.5 | 127 | 1.275E-07 | 7.395E-07 | 1655 |
| 125.0 | 18.6 | 136 | 1.369E-07 | 7.940E-07 | 1655 |
| S 125.0 | 21.7 | 98 | 9.892E-08 | 5.737E-07 | 1655 |
| 125.0 | 24.8 | 164 | 1.644E-07 | 9.538E-07 | 1655 |
| 125.0 | 31.0 | 164 | 1.649E-07 | 9.561E-07 | 1655 |
| 125.0 | 37.2 | 119 | 1.199E-07 | 6.954E-07 | 1655 |
| S 125.0 | 43.4 | 119 | 1.197E-07 | 6.945E-07 | 1655 |
| 125.0 | 49.6 | 140 | 1.405E-07 | 8.148E-07 | 1655 |
| S 125.0 | 55.8 | 149 | 1.498E-07 | 8.689E-07 | 1655 |
| S 125.0 | 62.0 | 93 | 9.392E-08 | 5.447E-07 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 125.0 | .2 | 0 | 0. | 0. | 1655 |
| 125.0 | .4 | 0 | 4.543E-09 | 2.635E-08 | 1655 |
| L 125.0 | .8 | 0 | 0. | 0. | 1655 |
| 125.0 | 1.5 | 1 | 1.817E-08 | 1.054E-07 | 1655 |
| Z 125.0 | 1.6 | 0 | 2.272E-09 | 1.318E-08 | 1655 |
| 125.0 | 3.1 | 0 | 0. | 0. | 1655 |
| 125.0 | 6.2 | 0 | 2.272E-09 | 1.318E-08 | 1655 |
| 125.0 | 9.3 | 0 | 0. | 0. | 1655 |
| S 125.0 | 12.4 | 0 | 0. | 0. | 1655 |
| 125.0 | 15.5 | 0 | 4.543E-09 | 2.635E-08 | 1655 |
| 125.0 | 18.6 | 0 | 2.272E-09 | 1.318E-08 | 1655 |
| S 125.0 | 21.7 | 0 | 0. | 0. | 1655 |
| 125.0 | 24.8 | 0 | 4.543E-09 | 2.635E-08 | 1655 |
| 125.0 | 31.0 | 0 | 6.815E-09 | 3.952E-08 | 1655 |
| 125.0 | 37.2 | 0 | 9.086E-09 | 5.270E-08 | 1655 |
| S 125.0 | 43.4 | 0 | 0. | 0. | 1655 |
| 125.0 | 49.6 | 0 | 9.086E-09 | 5.270E-08 | 1655 |
| S 125.0 | 55.8 | 0 | 0. | 0. | 1655 |
| S 125.0 | 62.0 | 0 | 0. | 0. | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 132.5 | .2 | 0 | 0. | 0. | 1665 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 132.5 | .2 | 0 | 0. | 0. | 1665 |

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
320DEG ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 99.8 | .2 | 33 | 3.374E-08 | 1.957E-07 | 3215 |
| 99.8 | .4 | 17 | 1.767E-08 | 1.025E-07 | 3215 |
| 99.8 | .8 | 16 | 1.683E-08 | 9.762E-08 | 3215 |
| 99.8 | 1.5 | 22 | 2.227E-08 | 1.292E-07 | 3215 |
| 99.8 | 1.6 | 14 | 1.461E-08 | 8.471E-08 | 3215 |
| 99.8 | 3.1 | 12 | 1.237E-08 | 7.177E-08 | 3215 |
| 99.8 | 6.2 | 19 | 1.978E-08 | 1.147E-07 | 3215 |
| L 99.8 | 9.3 | 0 | 0. | 0. | 3215 |
| 99.8 | 12.4 | 21 | 2.162E-08 | 1.254E-07 | 3215 |
| 99.8 | 15.5 | 19 | 1.906E-08 | 1.105E-07 | 3215 |
| 99.8 | 18.6 | 20 | 2.049E-08 | 1.188E-07 | 3215 |
| 99.8 | 21.7 | 26 | 2.630E-08 | 1.525E-07 | 3215 |
| 99.8 | 24.8 | 14 | 1.495E-08 | 8.671E-08 | 3215 |
| 99.8 | 31.0 | 26 | 2.614E-08 | 1.516E-07 | 3215 |
| 99.8 | 37.2 | 12 | 1.213E-08 | 7.033E-08 | 3215 |
| 99.8 | 43.4 | 28 | 2.818E-08 | 1.634E-07 | 3215 |
| 99.8 | 49.6 | 9 | 9.442E-09 | 5.476E-08 | 3215 |
| 99.8 | 55.8 | 16 | 1.679E-08 | 9.736E-08 | 3215 |
| 99.8 | 62.0 | 26 | 2.623E-08 | 1.521E-07 | 3215 |

TOWER DATA FOLLOW....

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
320DEG ARC U= 5.8 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

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V1

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 107.8 | .2 | 71 | 7.149E-08 | 4.147E-07 | 3229 |
| 107.8 | .4 | 81 | 8.194E-08 | 4.752E-07 | 3229 |
| 107.8 | .8 | 84 | 8.492E-08 | 4.925E-07 | 3229 |
| 107.8 | 1.5 | 78 | 7.814E-08 | 4.532E-07 | 3229 |
| 107.8 | 1.6 | 59 | 5.988E-08 | 3.473E-07 | 3229 |
| 107.8 | 3.1 | 73 | 7.377E-08 | 4.250E-07 | 3229 |
| 107.8 | 6.2 | 77 | 7.761E-08 | 4.501E-07 | 3229 |
| 107.8 | 9.3 | 48 | 4.858E-08 | 2.818E-07 | 3229 |
| 107.8 | 12.4 | 85 | 8.592E-08 | 4.983E-07 | 3229 |
| 107.8 | 15.5 | 62 | 6.201E-08 | 3.596E-07 | 3229 |
| Z 107.8 | 18.6 | 85 | 8.531E-08 | 4.948E-07 | 3229 |
| 107.8 | 21.7 | 74 | 7.467E-08 | 4.319E-07 | 3229 |
| L 107.8 | 24.8 | 0 | 0. | 0. | 3229 |
| S 107.8 | 31.0 | 67 | 6.737E-08 | 3.907E-07 | 3229 |
| 107.8 | 37.2 | 119 | 1.199E-07 | 6.955E-07 | 3229 |
| 107.8 | 43.4 | 105 | 1.053E-07 | 6.106E-07 | 3229 |
| 107.8 | 49.6 | 95 | 9.573E-08 | 5.552E-07 | 3229 |
| 107.8 | 55.8 | 34 | 3.488E-08 | 2.023E-07 | 3229 |
| 107.8 | 62.0 | 48 | 4.836E-08 | 2.799E-07 | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 107.8 | .2 | 1 | 1.649E-08 | 1.072E-07 | 3229 |
| 107.8 | .4 | 1 | 1.644E-08 | 9.533E-08 | 3229 |
| 107.8 | .8 | 1 | 1.746E-08 | 1.013E-07 | 3229 |
| 107.8 | 1.5 | 1 | 1.233E-08 | 7.150E-08 | 3229 |
| 107.8 | 1.6 | 1 | 1.746E-08 | 1.013E-07 | 3229 |
| 107.8 | 3.1 | 1 | 1.438E-08 | 8.342E-08 | 3229 |
| 107.8 | 6.2 | 1 | 1.438E-08 | 8.342E-08 | 3229 |
| 107.8 | 9.3 | 2 | 2.260E-08 | 1.311E-07 | 3229 |
| 107.8 | 12.4 | 1 | 1.644E-08 | 9.533E-08 | 3229 |
| 107.8 | 15.5 | 0 | 5.136E-09 | 2.979E-08 | 3229 |
| Z 107.8 | 18.6 | 1 | 1.952E-08 | 1.132E-07 | 3229 |
| 107.8 | 21.7 | 1 | 1.849E-08 | 1.072E-07 | 3229 |
| L 107.8 | 24.8 | 0 | 0. | 0. | 3229 |
| S 107.8 | 31.0 | 1 | 1.027E-08 | 5.958E-08 | 3229 |
| 107.8 | 37.2 | 2 | 2.157E-08 | 1.251E-07 | 3229 |
| 107.8 | 43.4 | 2 | 2.055E-08 | 1.192E-07 | 3229 |
| 107.8 | 49.6 | 2 | 2.055E-08 | 1.192E-07 | 3229 |
| 107.8 | 55.8 | 2 | 2.363E-08 | 1.370E-07 | 3229 |
| 107.8 | 62.0 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 66 | 8.676E-08 | 5.032E-07 | 3241 |
| W 115.6 | .4 | 94 | 9.479E-08 | 5.498E-07 | 3241 |
| W 115.6 | .8 | 101 | 1.018E-07 | 5.902E-07 | 3241 |
| 115.6 | 1.5 | 104 | 1.041E-07 | 6.036E-07 | 3241 |
| 115.6 | 1.6 | 97 | 9.749E-08 | 5.654E-07 | 3241 |
| 115.6 | 3.1 | 129 | 1.296E-07 | 7.517E-07 | 3241 |
| 115.6 | 6.2 | 102 | 1.024E-07 | 5.966E-07 | 3241 |
| 115.6 | 9.3 | 105 | 1.056E-07 | 6.134E-07 | 3241 |
| 115.6 | 12.4 | 59 | 5.997E-08 | 3.478E-07 | 3241 |
| 115.6 | 15.5 | 113 | 1.132E-07 | 6.566E-07 | 3241 |
| 115.6 | 18.6 | 113 | 1.131E-07 | 6.559E-07 | 3241 |
| 115.6 | 21.7 | 124 | 1.246E-07 | 7.226E-07 | 3241 |
| 115.6 | 24.8 | 123 | 1.213E-07 | 7.033E-07 | 3241 |
| 115.6 | 31.0 | 108 | 1.086E-07 | 6.314E-07 | 3241 |
| 115.6 | 37.2 | 115 | 1.159E-07 | 6.726E-07 | 3241 |
| 115.6 | 43.4 | 148 | 1.481E-07 | 8.588E-07 | 3241 |
| S 115.6 | 49.6 | 79 | 7.999E-08 | 4.640E-07 | 3241 |
| S 115.6 | 55.8 | 60 | 6.006E-08 | 3.484E-07 | 3241 |
| 115.6 | 62.0 | 39 | 3.960E-08 | 2.297E-07 | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 2 | 2.774E-08 | 1.609E-07 | 3241 |
| W 115.6 | .4 | 3 | 3.390E-08 | 1.966E-07 | 3241 |
| W 115.6 | .8 | 3 | 3.082E-08 | 1.787E-07 | 3241 |
| 115.6 | 1.5 | 2 | 2.465E-08 | 1.430E-07 | 3241 |
| 115.6 | 1.6 | 3 | 3.698E-08 | 2.145E-07 | 3241 |
| 115.6 | 3.1 | 4 | 4.006E-08 | 2.324E-07 | 3241 |
| 115.6 | 6.2 | 3 | 3.082E-08 | 1.787E-07 | 3241 |
| 115.6 | 9.3 | 4 | 4.006E-08 | 2.324E-07 | 3241 |
| 115.6 | 12.4 | 1 | 1.233E-08 | 7.150E-08 | 3241 |
| 115.6 | 15.5 | 4 | 4.006E-08 | 2.324E-07 | 3241 |
| 115.6 | 18.6 | 2 | 2.157E-08 | 1.251E-07 | 3241 |
| 115.6 | 21.7 | 3 | 3.390E-08 | 1.966E-07 | 3241 |
| 115.6 | 24.8 | 0 | 9.246E-09 | 5.362E-08 | 3241 |
| 115.6 | 31.0 | 3 | 3.082E-08 | 1.787E-07 | 3241 |
| 115.6 | 37.2 | 2 | 2.157E-08 | 1.251E-07 | 3241 |
| 115.6 | 43.0 | 4 | 4.931E-08 | 2.860E-07 | 3241 |
| S 115.6 | 49.6 | 1 | 1.849E-08 | 1.072E-07 | 3241 |
| S 115.6 | 55.8 | 0 | 6.164E-09 | 3.575E-08 | 3241 |
| 115.6 | 62.0 | 0 | 6.164E-09 | 3.575E-08 | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 123.4 | .2 | 82 | 8.274E-08 | 4.799E-07 | 3253 |
| 123.4 | .4 | 75 | 7.551E-08 | 4.380E-07 | 3253 |
| 123.4 | .8 | 56 | 5.623E-08 | 3.261E-07 | 3253 |
| 123.4 | 1.5 | 98 | 9.859E-08 | 5.718E-07 | 3253 |
| 123.4 | 1.6 | 55 | 5.556E-08 | 3.219E-07 | 3253 |
| 123.4 | 3.1 | 1 | 1.954E-09 | 1.133E-08 | 3253 |
| 123.4 | 6.2 | 78 | 7.882E-08 | 4.572E-07 | 3253 |
| S 123.4 | 9.3 | 50 | 5.095E-08 | 2.955E-07 | 3253 |
| 123.4 | 12.4 | 87 | 8.794E-08 | 5.100E-07 | 3253 |
| 123.4 | 15.5 | 55 | 5.547E-08 | 3.217E-07 | 3253 |
| 123.4 | 18.6 | 77 | 7.737E-08 | 4.476E-07 | 3253 |
| 123.4 | 21.7 | 74 | 7.447E-08 | 4.319E-07 | 3253 |
| 123.4 | 24.8 | 71 | 7.170E-08 | 4.159E-07 | 3253 |
| S 123.4 | 31.0 | 33 | 3.314E-08 | 1.922E-07 | 3253 |
| 123.4 | 37.2 | 50 | 5.066E-08 | 2.938E-07 | 3253 |
| S 123.4 | 43.4 | 56 | 5.604E-08 | 3.253E-07 | 3253 |
| S 123.4 | 49.6 | 33 | 3.305E-08 | 1.917E-07 | 3253 |
| S 123.4 | 55.8 | 47 | 4.800E-08 | 2.784E-07 | 3253 |
| S 123.4 | 62.0 | 61 | 6.163E-08 | 3.575E-07 | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 123.4 | .2 | 2 | 2.157E-08 | 1.251E-07 | 3253 |
| 123.4 | .4 | 1 | 1.849E-08 | 1.072E-07 | 3253 |
| 123.4 | .8 | 1 | 1.541E-08 | 8.937E-08 | 3253 |
| 123.4 | 1.5 | 1 | 1.027E-08 | 5.958E-08 | 3253 |
| 123.4 | 1.6 | 1 | 1.849E-08 | 1.072E-07 | 3253 |
| 123.4 | 3.1 | 0 | 0. | 0. | 3253 |
| 123.4 | 6.2 | 0 | 0. | 0. | 3253 |
| S 123.4 | 9.3 | 0 | 0. | 0. | 3253 |
| 123.4 | 12.4 | 0 | 0. | 0. | 3253 |
| 123.4 | 15.5 | 0 | 0. | 0. | 3253 |
| 123.4 | 18.6 | 0 | 0. | 0. | 3253 |
| 123.4 | 21.7 | 0 | 0. | 0. | 3253 |
| 123.4 | 24.8 | 0 | 0. | 0. | 3253 |
| S 123.4 | 31.0 | 0 | 0. | 0. | 3253 |
| 123.4 | 37.2 | 0 | 0. | 0. | 3253 |
| S 123.4 | 43.4 | 0 | 0. | 0. | 3253 |
| S 123.4 | 49.6 | 0 | 0. | 0. | 3253 |
| S 123.4 | 55.8 | 0 | 0. | 0. | 3253 |
| S 123.4 | 62.0 | 0 | 0. | 0. | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 131.2 | .2 | 0 | 0. | 0. | 3264 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 131.2 | .2 | 0 | 0. | 0. | 3264 |

1202880



V

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. FOLLOWING SOME EXTRAPOLATION AT SOUTH EDGE. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. 13 OF 20 TOWERS "HIT" BY TRACERS; ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOP. ALTHO NO RAIN DURING TRACER RELEASE, PRIOR RAIN LEFT FILTERS WET; EFFECT, IF ANY, UNKNOWN.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 106.0 | 0 | 0. | 0. | 200 |
| 108.0 | 138 | 7.233E-08 | 3.182E-07 | 200 |
| 110.0 | 1621 | 8.489E-07 | 3.735E-06 | 200 |
| 112.0 | 3897 | 2.040E-06 | 8.978E-06 | 200 |
| 114.0 | 8999 | 4.712E-06 | 2.073E-05 | 200 |
| 116.0 | 12048 | 6.308E-06 | 2.776E-05 | 200 |
| 118.0 | 9137 | 4.784E-06 | 2.105E-05 | 200 |
| 120.0 | 10289 | 5.387E-06 | 2.370E-05 | 200 |
| 122.0 | 16570 | 8.676E-06 | 3.817E-05 | 200 |
| 124.0 | 10120 | 5.299E-06 | 2.331E-05 | 200 |
| 126.0 | 13389 | 7.010E-06 | 3.085E-05 | 200 |
| 128.0 | 10180 | 5.330E-06 | 2.345E-05 | 200 |
| 130.0 | 22281 | 1.167E-05 | 5.133E-05 | 200 |
| 132.0 | 24365 | 1.276E-05 | 5.613E-05 | 200 |
| 134.0 | 15725 | 8.233E-06 | 3.623E-05 | 200 |
| 136.0 | 15163 | 7.939E-06 | 3.493E-05 | 200 |
| 138.0 | 11164 | 5.845E-06 | 2.572E-05 | 200 |
| 140.0 | 15288 | 8.004E-06 | 3.522E-05 | 200 |
| 142.0 | 19867 | 1.040E-05 | 4.577E-05 | 200 |
| 144.0 | 42153 | 2.207E-05 | 9.711E-05 | 200 |
| 146.0 | 18798 | 9.947E-06 | 4.377E-05 | 200 |
| 148.0 | 19247 | 1.008E-05 | 4.434E-05 | 200 |
| 150.0 | 10259 | 5.371E-06 | 2.363E-05 | 200 |
| 152.0 | 5547 | 2.904E-06 | 1.278E-05 | 200 |
| 154.0 | 8601 | 4.503E-06 | 1.982E-05 | 200 |
| 156.0 | 1400 | 7.334E-07 | 3.227E-06 | 200 |
| 158.0 | 1476 | 7.732E-07 | 3.402E-06 | 200 |
| B 160.0 | 1595 | 8.354E-07 | 3.676E-06 | 200 |
| E 162.0 | 533 | 2.792E-07 | 1.229E-06 | 200 |
| E 164.0 | 51 | 2.691E-08 | 1.184E-07 | 200 |
| E 166.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.207E-03 SEC/SQ.M 5.309E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 2 | 2.297E-08 | 1.011E-07 | 200 |
| 108.0 | 6 | 6.351E-08 | 2.795E-07 | 200 |
| 110.0 | 47 | 4.730E-07 | 2.081E-06 | 200 |
| 112.0 | 127 | 1.270E-06 | 5.589E-06 | 200 |
| 114.0 | 235 | 2.351E-06 | 1.035E-05 | 200 |
| 116.0 | 312 | 3.122E-06 | 1.374E-05 | 200 |
| 118.0 | 320 | 3.203E-06 | 1.409E-05 | 200 |
| 120.0 | 178 | 1.784E-06 | 7.849E-06 | 200 |
| 122.0 | 563 | 5.635E-06 | 2.479E-05 | 200 |
| 124.0 | 166 | 1.662E-06 | 7.314E-06 | 200 |
| 126.0 | 563 | 5.635E-06 | 2.479E-05 | 200 |
| 128.0 | 356 | 3.568E-06 | 1.570E-05 | 200 |
| 130.0 | 295 | 2.959E-06 | 1.302E-05 | 200 |
| 132.0 | 364 | 3.649E-06 | 1.605E-05 | 200 |
| 134.0 | 340 | 3.405E-06 | 1.498E-05 | 200 |
| 136.0 | 243 | 2.432E-06 | 1.070E-05 | 200 |
| 138.0 | 145 | 1.459E-06 | 6.422E-06 | 200 |
| 140.0 | 190 | 1.905E-06 | 8.384E-06 | 200 |
| 142.0 | 271 | 2.716E-06 | 1.195E-05 | 200 |
| 144.0 | 368 | 3.689E-06 | 1.623E-05 | 200 |
| 146.0 | 263 | 2.635E-06 | 1.159E-05 | 200 |
| 148.0 | 320 | 3.203E-06 | 1.409E-05 | 200 |
| 150.0 | 51 | 5.135E-07 | 2.259E-06 | 200 |
| 152.0 | 6 | 6.216E-08 | 2.735E-07 | 200 |
| 154.0 | 1 | 1.622E-08 | 7.135E-08 | 200 |
| 156.0 | 0 | 0. | 0. | 200 |
| 158.0 | 0 | 0. | 0. | 200 |
| 160.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 4.013E-04 SEC/SQ.M 1.766E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 0 | 2.026E-10 | 8.916E-10 | 400 |
| 110.0 | 99 | 5.188E-08 | 2.283E-07 | 400 |
| 114.0 | 4291 | 2.247E-06 | 9.886E-06 | 400 |
| 118.0 | 16801 | 8.796E-06 | 3.870E-05 | 400 |
| 122.0 | 18911 | 9.901E-06 | 4.356E-05 | 400 |
| 126.0 | 17900 | 9.372E-06 | 4.124E-05 | 400 |
| 130.0 | 27998 | 1.466E-05 | 6.450E-05 | 400 |
| 134.0 | 20761 | 1.087E-05 | 4.783E-05 | 400 |
| 138.0 | 18257 | 9.559E-06 | 4.206E-05 | 400 |
| 142.0 | 33542 | 1.756E-05 | 7.727E-05 | 400 |
| 146.0 | 34125 | 1.787E-05 | 7.861E-05 | 400 |
| 150.0 | 20837 | 1.091E-05 | 4.800E-05 | 400 |
| B 154.0 | 5867 | 3.072E-06 | 1.352E-05 | 400 |
| E 158.0 | 3095 | 1.621E-06 | 7.131E-06 | 400 |
| E 162.0 | 95 | 5.026E-08 | 2.211E-07 | 400 |
| E 166.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 3.254E-03 SEC/SQ.M 1.432E-02 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 0 | 0. | 0. | 400 |
| 110.0 | 3 | 3.077E-08 | 1.354E-07 | 400 |
| 114.0 | 188 | 1.882E-06 | 8.279E-06 | 400 |
| 118.0 | 661 | 6.615E-06 | 2.911E-05 | 400 |
| 122.0 | 862 | 8.627E-06 | 3.796E-05 | 400 |
| 126.0 | 744 | 7.444E-06 | 3.275E-05 | 400 |
| 130.0 | 1134 | 1.135E-05 | 4.994E-05 | 400 |
| 134.0 | 839 | 8.391E-06 | 3.692E-05 | 400 |
| 138.0 | 578 | 5.787E-06 | 2.546E-05 | 400 |
| 142.0 | 898 | 8.982E-06 | 3.952E-05 | 400 |
| 146.0 | 1221 | 1.222E-05 | 5.375E-05 | 400 |
| Z 150.0 | 708 | 7.089E-06 | 3.119E-05 | 400 |
| B 154.0 | 160 | 1.606E-06 | 7.064E-06 | 400 |
| E 158.0 | 3 | 3.550E-08 | 1.562E-07 | 400 |
| E 162.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 2.236E-03 SEC/SQ.M 9.836E-03 1/M

1202001



V2

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 110.7 | 0 | 0. | 0. | 829 |
| 112.6 | 124 | 6.508E-09 | 2.864E-07 | 833 |
| 114.5 | 688 | 3.607E-07 | 1.587E-06 | 836 |
| 116.4 | 2327 | 1.219E-06 | 5.362E-06 | 839 |
| 118.3 | 3628 | 1.900E-06 | 8.360E-06 | 842 |
| 120.2 | 5457 | 2.857E-06 | 1.257E-05 | 845 |
| 122.1 | 9479 | 4.963E-06 | 2.184E-05 | 848 |
| 124.0 | 11036 | 5.778E-06 | 2.542E-05 | 851 |
| 125.8 | 9222 | 4.829E-06 | 2.125E-05 | 854 |
| 127.7 | 6477 | 3.391E-06 | 1.492E-05 | 857 |
| 129.5 | 5528 | 2.895E-06 | 1.274E-05 | 859 |
| 131.4 | 8193 | 4.290E-06 | 1.887E-05 | 862 |
| 133.2 | 5500 | 2.880E-06 | 1.267E-05 | 865 |
| 135.0 | 5799 | 3.036E-06 | 1.336E-05 | 867 |
| 136.8 | 10460 | 5.477E-06 | 2.410E-05 | 869 |
| E 138.7 | 11910 | 6.236E-06 | 2.744E-05 | 872 |
| 140.6 | 13859 | 7.256E-06 | 3.193E-05 | 874 |
| 142.4 | 10506 | 5.501E-06 | 2.420E-05 | 876 |
| 144.2 | 19192 | 1.005E-05 | 4.421E-05 | 878 |
| 146.0 | 13907 | 7.281E-06 | 3.204E-05 | 880 |
| 147.8 | 15381 | 8.053E-06 | 3.543E-05 | 882 |
| 149.6 | 11663 | 6.106E-06 | 2.687E-05 | 884 |
| 151.4 | 7390 | 3.869E-06 | 1.702E-05 | 886 |
| 153.2 | 2467 | 1.292E-06 | 5.684E-06 | 887 |
| 155.0 | 1722 | 9.020E-07 | 3.969E-06 | 889 |
| 156.8 | 384 | 2.012E-07 | 8.854E-07 | 890 |
| 158.6 | 429 | 2.251E-07 | 9.904E-07 | 892 |
| 160.4 | 279 | 1.464E-07 | 6.443E-07 | 893 |
| 162.2 | 26 | 1.410E-08 | 6.205E-08 | 894 |

CROSSWIND INTEGRATED= 2.811E-03 SEC/SQ.M 1.237E-02 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| Z 110.7 | 0 | 0. | 0. | 829 |
| 112.6 | 6 | 6.536E-08 | 2.876E-07 | 833 |
| 114.5 | 42 | 4.248E-07 | 1.869E-06 | 836 |
| 116.4 | 140 | 1.408E-06 | 6.195E-06 | 839 |
| 118.3 | 239 | 2.386E-06 | 1.050E-05 | 842 |
| 120.2 | 384 | 3.850E-06 | 1.694E-05 | 845 |
| 122.1 | 676 | 6.761E-06 | 2.975E-05 | 848 |
| 124.0 | 728 | 7.282E-06 | 3.204E-05 | 851 |
| 125.8 | 658 | 6.587E-06 | 2.896E-05 | 854 |
| 127.7 | 641 | 6.413E-06 | 2.822E-05 | 857 |
| 129.5 | 463 | 4.634E-06 | 2.039E-05 | 859 |
| 131.4 | 390 | 3.902E-06 | 1.717E-05 | 862 |
| 133.2 | 536 | 5.370E-06 | 2.363E-05 | 865 |
| 135.0 | 306 | 3.065E-06 | 1.349E-05 | 867 |
| 136.8 | 536 | 5.370E-06 | 2.363E-05 | 869 |
| E 138.7 | 571 | 5.718E-06 | 2.516E-05 | 872 |
| 140.6 | 589 | 5.892E-06 | 2.592E-05 | 874 |
| 142.4 | 405 | 4.059E-06 | 1.786E-05 | 876 |
| 144.2 | 1006 | 1.006E-05 | 4.428E-05 | 878 |
| 146.0 | 763 | 7.630E-06 | 3.357E-05 | 880 |
| 147.8 | 554 | 5.544E-06 | 2.439E-05 | 882 |
| 149.6 | 416 | 4.163E-06 | 1.832E-05 | 884 |
| 151.4 | 238 | 2.386E-06 | 1.050E-05 | 886 |
| 153.2 | 81 | 8.131E-07 | 3.576E-06 | 887 |
| 155.0 | 64 | 6.431E-07 | 2.830E-06 | 889 |
| 156.8 | 23 | 2.366E-07 | 1.041E-06 | 890 |
| 158.6 | 28 | 2.889E-07 | 1.271E-06 | 892 |
| 160.4 | 3 | 3.791E-08 | 1.668E-07 | 893 |
| 162.2 | 2 | 2.614E-08 | 1.150E-07 | 894 |

CROSSWIND INTEGRATED= 2.918E-03 SEC/SQ.M 1.284E-02 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 110.0 | 0 | 0. | 0. | 1200 |
| 112.0 | 9 | 4.860E-09 | 2.136E-08 | 1200 |
| 114.0 | 25 | 1.356E-08 | 5.966E-08 | 1200 |
| 116.0 | 524 | 2.744E-07 | 1.207E-06 | 1200 |
| 118.0 | 1368 | 7.162E-07 | 3.151E-06 | 1200 |
| 120.0 | 1934 | 1.013E-06 | 4.457E-06 | 1200 |
| 122.0 | 2906 | 1.522E-06 | 6.695E-06 | 1200 |
| 124.0 | 3192 | 1.672E-06 | 7.355E-06 | 1200 |
| 126.0 | 6196 | 3.244E-06 | 1.427E-05 | 1200 |
| 128.0 | 4356 | 2.281E-06 | 1.004E-05 | 1200 |
| 130.0 | 6165 | 3.228E-06 | 1.420E-05 | 1200 |
| 132.0 | 3120 | 1.634E-06 | 7.189E-06 | 1200 |
| 134.0 | 4063 | 2.127E-06 | 9.360E-06 | 1200 |
| 136.0 | 5615 | 2.940E-06 | 1.294E-05 | 1200 |
| 138.0 | 6583 | 3.447E-06 | 1.517E-05 | 1200 |
| 140.0 | 3501 | 1.833E-06 | 8.067E-06 | 1200 |
| 142.0 | 5639 | 2.953E-06 | 1.299E-05 | 1200 |
| 144.0 | 8012 | 4.195E-06 | 1.846E-05 | 1200 |
| 146.0 | 5701 | 2.985E-06 | 1.313E-05 | 1200 |
| 148.0 | 3920 | 2.053E-06 | 9.033E-06 | 1200 |
| 150.0 | 3975 | 2.081E-06 | 9.155E-06 | 1200 |
| 152.0 | 2152 | 1.127E-06 | 4.956E-06 | 1200 |
| 154.0 | 1232 | 6.454E-07 | 2.840E-06 | 1200 |
| B 156.0 | 297 | 1.557E-07 | 6.855E-07 | 1200 |
| E 158.0 | 323 | 1.693E-07 | 7.450E-07 | 1200 |
| E 160.0 | 64 | 3.368E-08 | 1.482E-07 | 1200 |
| E 162.0 | 3 | 2.034E-09 | 8.952E-09 | 1200 |
| E 164.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.774E-03 SEC/SQ.M 7.805E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 0. | 0. | 1200 |
| 112.0 | 1 | 1.056E-08 | 4.647E-08 | 1200 |
| 114.0 | 1 | 1.232E-08 | 5.421E-08 | 1200 |
| 116.0 | 36 | 3.663E-07 | 1.612E-06 | 1200 |
| Z 118.0 | 67 | 6.744E-07 | 2.967E-06 | 1200 |
| Z 120.0 | 93 | 9.331E-07 | 4.106E-06 | 1200 |
| 122.0 | 122 | 1.226E-06 | 5.393E-06 | 1200 |
| 124.0 | 213 | 2.133E-06 | 9.385E-06 | 1200 |
| 126.0 | 274 | 2.747E-06 | 1.209E-05 | 1200 |
| 128.0 | 385 | 3.869E-06 | 1.702E-05 | 1200 |
| 130.0 | 342 | 3.429E-06 | 1.509E-05 | 1200 |
| 132.0 | 178 | 1.782E-06 | 7.840E-06 | 1200 |
| 134.0 | 134 | 1.343E-06 | 5.908E-06 | 1200 |
| 136.0 | 260 | 2.601E-06 | 1.144E-05 | 1200 |
| 138.0 | 222 | 2.221E-06 | 9.771E-06 | 1200 |
| 140.0 | 222 | 2.221E-06 | 9.771E-06 | 1200 |
| 142.0 | 224 | 2.250E-06 | 9.900E-06 | 1200 |
| 144.0 | 325 | 3.253E-06 | 1.431E-05 | 1200 |
| 146.0 | 342 | 3.429E-06 | 1.509E-05 | 1200 |
| 148.0 | 369 | 3.693E-06 | 1.625E-05 | 1200 |
| 150.0 | 172 | 1.723E-06 | 7.582E-06 | 1200 |
| 152.0 | 128 | 1.284E-06 | 5.651E-06 | 1200 |
| 154.0 | 53 | 5.336E-07 | 2.348E-06 | 1200 |
| 156.0 | 24 | 2.455E-07 | 1.080E-06 | 1200 |
| 158.0 | 6 | 6.601E-08 | 2.904E-07 | 1200 |
| 160.0 | 1 | 1.320E-08 | 5.809E-08 | 1200 |
| 162.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.762E-03 SEC/SQ.M 7.752E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 114.4 | 3 | 1.617E-09 | 7.116E-09 | 1638 |
| 115.3 | 37 | 1.981E-08 | 6.717E-08 | 1640 |
| 116.3 | 64 | 3.356E-08 | 1.477E-07 | 1641 |
| 117.3 | 231 | 1.213E-07 | 5.337E-07 | 1643 |
| 118.2 | 172 | 9.017E-08 | 3.967E-07 | 1644 |
| 119.2 | 258 | 1.355E-07 | 5.960E-07 | 1646 |
| 120.2 | 406 | 2.127E-07 | 9.356E-07 | 1647 |
| E 121.2 | 708 | 3.712E-07 | 1.633E-06 | 1649 |
| E 122.1 | 1079 | 5.653E-07 | 2.487E-06 | 1650 |
| E 123.1 | 1388 | 7.270E-07 | 3.199E-06 | 1652 |
| E 124.1 | 1697 | 8.897E-07 | 3.910E-06 | 1653 |
| E 125.0 | 1929 | 1.010E-06 | 4.444E-06 | 1655 |
| 126.0 | 2002 | 1.048E-06 | 4.613E-06 | 1656 |
| 126.9 | 1760 | 9.215E-07 | 4.055E-06 | 1658 |
| 127.8 | 2445 | 1.281E-06 | 5.634E-06 | 1659 |
| 128.8 | 1969 | 9.789E-07 | 4.307E-06 | 1660 |
| 129.7 | 2692 | 1.410E-06 | 6.202E-06 | 1662 |
| 130.6 | 3035 | 1.589E-06 | 6.994E-06 | 1663 |
| 131.5 | 2436 | 1.277E-06 | 5.618E-06 | 1664 |
| 132.5 | 2605 | 1.364E-06 | 6.003E-06 | 1665 |
| 133.5 | 1806 | 9.457E-07 | 4.161E-06 | 1667 |
| 134.4 | 2091 | 1.095E-06 | 4.818E-06 | 1668 |
| 135.4 | 2319 | 1.214E-06 | 5.343E-06 | 1669 |
| 136.4 | 2977 | 1.559E-06 | 6.858E-06 | 1670 |
| 137.3 | 2784 | 1.458E-06 | 6.414E-06 | 1672 |
| 138.3 | 3435 | 1.799E-06 | 7.915E-06 | 1673 |
| 139.3 | 3134 | 1.641E-06 | 7.221E-06 | 1674 |
| 140.2 | 2846 | 1.490E-06 | 6.556E-06 | 1675 |
| 141.2 | 2689 | 1.408E-06 | 6.195E-06 | 1676 |
| 142.2 | 2470 | 1.293E-06 | 5.691E-06 | 1677 |
| 143.1 | 3506 | 1.836E-06 | 8.079E-06 | 1678 |
| 144.1 | 3738 | 1.957E-06 | 8.612E-06 | 1679 |
| 145.1 | 3257 | 1.705E-06 | 7.504E-06 | 1680 |
| 146.0 | 3734 | 1.955E-06 | 8.604E-06 | 1681 |
| 146.9 | 3283 | 1.719E-06 | 7.565E-06 | 1682 |
| 147.9 | 3606 | 1.888E-06 | 8.308E-06 | 1683 |
| 148.8 | 3056 | 1.600E-06 | 7.042E-06 | 1684 |
| 149.7 | 2604 | 1.364E-06 | 6.001E-06 | 1685 |
| 150.7 | 2043 | 1.070E-06 | 4.707E-06 | 1686 |
| 151.6 | 1983 | 1.038E-06 | 4.569E-06 | 1687 |
| 152.6 | 1026 | 5.374E-07 | 2.364E-06 | 1688 |
| 153.5 | 635 | 3.326E-07 | 1.464E-06 | 1688 |
| E 154.5 | 481 | 2.519E-07 | 1.108E-06 | 1689 |
| E 155.4 | 327 | 1.714E-07 | 7.543E-07 | 1690 |
| E 156.4 | 226 | 1.184E-07 | 5.124E-07 | 1691 |
| E 157.3 | 245 | 1.286E-07 | 5.657E-07 | 1691 |
| E 158.3 | 261 | 1.367E-07 | 6.013E-07 | 1692 |
| E 159.2 | 230 | 1.205E-07 | 5.302E-07 | 1693 |
| E 160.2 | 145 | 7.601E-08 | 3.345E-07 | 1693 |
| E 161.1 | 37 | 1.941E-08 | 8.540E-08 | 1694 |
| E 162.0 | 6 | 3.235E-09 | 1.423E-08 | 1694 |
| E 163.0 | 0 | 0. | 0. | 1695 |

CROSSWIND INTEGRATED= 1.277E-03 SEC/SQ.M  5.618E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
[illegible]DAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U=4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 113.4 | 0 | 0. | 0. | 1637 |
| 114.4 | 0 | 8.621E-10 | 3.793E-09 | 1638 |
| 115.3 | 0 | 8.621E-10 | 3.793E-09 | 1640 |
| 116.3 | 1 | 1.724E-08 | 7.586E-08 | 1641 |
| 117.3 | 7 | 7.414E-08 | 3.262E-07 | 1643 |
| 118.2 | 4 | 5.000E-08 | 2.200E-07 | 1644 |
| 119.2 | 9 | 9.397E-08 | 4.134E-07 | 1646 |
| 120.2 | 96 | 8.836E-07 | 3.888E-06 | 1647 |
| E 121.2 | 83 | 8.388E-07 | 3.691E-06 | 1649 |
| E 122.1 | 83 | 8.388E-07 | 3.691E-06 | 1650 |
| E 123.1 | 83 | 8.388E-07 | 3.691E-06 | 1652 |
| E 124.1 | 83 | 8.388E-07 | 3.691E-06 | 1653 |
| E 125.0 | 83 | 8.388E-07 | 3.691E-06 | 1655 |
| 126.0 | 79 | 7.940E-07 | 3.493E-06 | 1656 |
| 126.9 | 126 | 1.263E-06 | 5.557E-06 | 1658 |
| 127.8 | 106 | 1.063E-06 | 4.677E-06 | 1659 |
| 128.8 | 153 | 1.539E-06 | 6.771E-06 | 1660 |
| 129.7 | 143 | 1.436E-06 | 6.316E-06 | 1662 |
| 130.6 | 126 | 1.263E-06 | 5.557E-06 | 1663 |
| 131.5 | 129 | 1.297E-06 | 5.709E-06 | 1664 |
| 132.5 | 136 | 1.366E-06 | 6.012E-06 | 1665 |
| 133.5 | 101 | 1.018E-06 | 4.480E-06 | 1667 |
| 134.4 | 129 | 1.297E-06 | 5.709E-06 | 1668 |
| 135.4 | 126 | 1.263E-06 | 5.557E-06 | 1669 |
| 136.4 | 153 | 1.534E-06 | 6.619E-06 | 1670 |
| 137.3 | 153 | 1.539E-06 | 6.771E-06 | 1672 |
| 138.3 | 153 | 1.539E-06 | 6.771E-06 | 1673 |
| 139.3 | 160 | 1.608E-06 | 7.074E-06 | 1674 |
| 140.2 | 146 | 1.470E-06 | 6.467E-06 | 1675 |
| 141.2 | 143 | 1.435E-06 | 6.316E-06 | 1676 |
| 142.2 | 184 | 1.849E-06 | 8.136E-06 | 1677 |
| 143.1 | 250 | 2.504E-06 | 1.102E-05 | 1678 |
| 144.1 | 250 | 2.504E-06 | 1.102E-05 | 1679 |
| 145.1 | 181 | 1.815E-06 | 7.984E-06 | 1680 |
| 146.0 | 184 | 1.849E-06 | 8.136E-06 | 1681 |
| 146.9 | 205 | 2.056E-06 | 9.047E-06 | 1682 |
| 147.9 | 195 | 1.953E-06 | 8.591E-06 | 1683 |
| 148.8 | 179 | 1.790E-06 | 7.873E-06 | 1684 |
| 149.7 | 146 | 1.470E-06 | 6.467E-06 | 1685 |
| 150.7 | 100 | 1.007E-06 | 4.430E-06 | 1686 |
| 151.6 | 79 | 7.940E-07 | 3.493E-06 | 1687 |
| 152.6 | 67 | 6.737E-07 | 2.963E-06 | 1688 |
| 153.5 | 40 | 4.017E-07 | 1.768E-06 | 1688 |
| E 154.5 | 26 | 2.629E-07 | 1.157E-06 | 1689 |
| E 155.4 | 19 | 1.974E-07 | 8.686E-07 | 1690 |
| E 156.4 | 11 | 1.121E-07 | 4.931E-07 | 1691 |
| E 157.4 | 4 | 5.000E-08 | 2.200E-07 | 1691 |
| E 158.3 | 2 | 2.759E-08 | 1.214E-07 | 1692 |
| E 159.3 | 0 | 0. | 0. | 1693 |

CROSSWIND INTEGRATED= 1.370E-03 SEC/SQ.M  6.030E-03 1/M



V2 1202883

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 116.0 | 6 | 3.204E-09 | 1.410E-08 | 2200 |
| 118.0 | 105 | 5.528E-08 | 2.432E-07 | 2200 |
| 120.0 | 212 | 1.114E-07 | 4.899E-07 | 2200 |
| 122.0 | 315 | 1.650E-07 | 7.261E-07 | 2200 |
| 124.0 | 826 | 4.326E-07 | 1.903E-06 | 2200 |
| 126.0 | 1084 | 5.680E-07 | 2.499E-06 | 2200 |
| 128.0 | 2432 | 1.273E-06 | 5.603E-06 | 2200 |
| 130.0 | 1230 | 6.441E-07 | 2.834E-06 | 2200 |
| 132.0 | 1351 | 7.078E-07 | 3.114E-06 | 2200 |
| 4 134.0 | 943 | 4.939E-07 | 2.173E-06 | 2200 |
| 136.0 | 1728 | 9.048E-07 | 3.981E-06 | 2200 |
| 138.0 | 2447 | 1.282E-06 | 5.639E-06 | 2200 |
| 140.0 | 2400 | 1.257E-06 | 5.530E-06 | 2200 |
| 142.0 | 1982 | 1.038E-06 | 4.568E-06 | 2200 |
| 144.0 | 1804 | 9.449E-07 | 4.157E-06 | 2200 |
| 146.0 | 2251 | 1.179E-06 | 5.188E-06 | 2200 |
| 148.0 | 1809 | 9.475E-07 | 4.169E-06 | 2200 |
| 150.0 | 1595 | 8.353E-07 | 3.675E-06 | 2200 |
| 152.0 | 1671 | 8.754E-07 | 3.852E-06 | 2200 |
| 154.0 | 429 | 2.249E-07 | 9.896E-07 | 2200 |
| B 156.0 | 70 | 3.705E-08 | 1.630E-07 | 2200 |
| E 158.0 | 79 | 4.166E-08 | 1.833E-07 | 2200 |
| E 160.0 | 48 | 2.563E-08 | 1.128E-07 | 2200 |
| E 162.0 | 0 | 0. | 0. | 2200 |

CROSSWIND INTEGRATED= 1.079E-03 SEC/SQ.M 4.746E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 114.0 | 0 | 0. | 0. | 2200 |
| 116.0 | 6 | 7.797E-10 | 3.431E-09 | 2200 |
| 118.0 | 5 | 5.165E-08 | 2.281E-07 | 2200 |
| 120.0 | 11 | 1.158E-07 | 5.095E-07 | 2200 |
| 122.0 | 17 | 1.715E-07 | 7.546E-07 | 2200 |
| 124.0 | 39 | 3.996E-07 | 1.758E-06 | 2200 |
| 126.0 | 107 | 1.070E-06 | 4.709E-06 | 2200 |
| 128.0 | 121 | 1.211E-06 | 5.326E-06 | 2200 |
| 130.0 | 53 | 5.400E-07 | 2.376E-06 | 2200 |
| 132.0 | 78 | 7.895E-07 | 3.474E-06 | 2200 |
| 134.0 | 102 | 1.023E-06 | 4.503E-06 | 2200 |
| 136.0 | 100 | 1.008E-06 | 4.434E-06 | 2200 |
| 138.0 | 144 | 1.444E-06 | 6.356E-06 | 2200 |
| 140.0 | 130 | 1.304E-06 | 5.736E-06 | 2200 |
| 142.0 | 175 | 1.757E-06 | 7.731E-06 | 2200 |
| 144.0 | 76 | 7.895E-07 | 3.474E-06 | 2200 |
| 146.0 | 110 | 1.101E-06 | 4.846E-06 | 2200 |
| 148.0 | 91 | 9.142E-07 | 4.023E-06 | 2200 |
| 150.0 | 91 | 9.142E-07 | 4.023E-06 | 2200 |
| 152.0 | 77 | 7.739E-07 | 3.405E-06 | 2200 |
| 154.0 | 26 | 2.678E-07 | 1.178E-06 | 2200 |
| 156.0 | 2 | 2.339E-08 | 1.029E-07 | 2200 |

CROSSWIND INTEGRATED= 1.203E-03 SEC/SQ.M 5.295E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 120.5 | 0 | 0. | 0. | 3249 |
| 121.5 | 15 | 8.011E-09 | 3.525E-08 | 3251 |
| 122.4 | 62 | 3.264E-08 | 1.445E-07 | 3252 |
| S 123.4 | 270 | 1.418E-07 | 6.239E-07 | 3253 |
| 124.4 | 518 | 2.714E-07 | 1.194E-06 | 3255 |
| 125.4 | 857 | 4.488E-07 | 1.975E-06 | 3256 |
| 126.3 | 851 | 4.456E-07 | 1.961E-06 | 3258 |
| 127.3 | 1594 | 8.347E-07 | 3.673E-06 | 3259 |
| 128.3 | 1197 | 6.271E-07 | 2.759E-06 | 3261 |
| 129.3 | 1182 | 6.192E-07 | 2.724E-06 | 3262 |
| 130.3 | 1168 | 6.116E-07 | 2.691E-06 | 3263 |
| 131.2 | 969 | 5.071E-07 | 2.231E-06 | 3264 |
| 132.2 | 1050 | 5.501E-07 | 2.421E-06 | 3266 |
| 133.2 | 694 | 3.635E-07 | 1.599E-06 | 3267 |
| 134.2 | 658 | 3.449E-07 | 1.517E-06 | 3268 |
| 135.2 | 412 | 2.159E-07 | 9.499E-07 | 3270 |
| 136.2 | 544 | 2.850E-07 | 1.254E-06 | 3271 |
| 137.1 | 611 | 3.200E-07 | 1.408E-06 | 3272 |
| 138.1 | 623 | 3.262E-07 | 1.435E-06 | 3273 |
| 139.1 | 602 | 3.156E-07 | 1.389E-06 | 3274 |
| 140.1 | 1131 | 5.924E-07 | 2.607E-06 | 3276 |
| 141.1 | 955 | 5.001E-07 | 2.200E-06 | 3277 |
| 142.0 | 1365 | 7.152E-07 | 3.147E-06 | 3278 |
| 143.0 | 1198 | 6.275E-07 | 2.761E-06 | 3279 |
| 144.0 | 1079 | 5.654E-07 | 2.488E-06 | 3280 |
| 145.0 | 1497 | 7.839E-07 | 3.449E-06 | 3281 |
| 146.0 | 1741 | 9.118E-07 | 4.012E-06 | 3282 |
| 146.9 | 1768 | 9.261E-07 | 4.075E-06 | 3283 |
| 147.9 | 2038 | 1.067E-06 | 4.695E-06 | 3284 |
| 148.9 | 2321 | 1.215E-06 | 5.347E-06 | 3285 |
| 149.9 | 1241 | 6.503E-07 | 2.860E-06 | 3286 |
| 150.9 | 727 | 3.809E-07 | 1.676E-06 | 3287 |
| 151.8 | 901 | 4.720E-07 | 2.077E-06 | 3287 |
| 152.8 | 513 | 2.688E-07 | 1.183E-06 | 3288 |
| 153.8 | 425 | 2.227E-07 | 9.799E-07 | 3289 |
| 154.8 | 134 | 7.030E-08 | 3.093E-07 | 3290 |
| 155.7 | 117 | 6.168E-08 | 2.714E-07 | 3290 |
| B 156.7 | 148 | 7.771E-08 | 3.419E-07 | 3291 |
| E 157.7 | 152 | 7.971E-08 | 3.507E-07 | 3292 |
| E 158.7 | 94 | 4.967E-08 | 2.185E-07 | 3292 |
| E 159.6 | 23 | 1.242E-08 | 5.463E-08 | 3293 |
| E 160.6 | 3 | 1.602E-09 | 7.050E-09 | 3294 |
| E 161.6 | 0 | 0. | 0. | 3294 |

CROSSWIND INTEGRATED= 9.821E-04 SEC/SQ.M 4.321E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 120.5 | 0 | 1.949E-09 | 8.577E-09 | 3249 |
| 121.5 | 1 | 1.404E-08 | 6.175E-08 | 3251 |
| 122.4 | 3 | 3.041E-08 | 1.338E-07 | 3252 |
| S 123.4 | 13 | 1.345E-07 | 5.918E-07 | 3253 |
| 124.4 | 21 | 2.172E-07 | 9.555E-07 | 3255 |
| 125.4 | 33 | 3.398E-07 | 1.495E-06 | 3256 |
| 126.3 | 29 | 2.932E-07 | 1.290E-06 | 3258 |
| 127.3 | 63 | 6.335E-07 | 2.788E-06 | 3259 |
| 128.3 | 52 | 5.244E-07 | 2.307E-06 | 3261 |
| 129.3 | 63 | 6.335E-07 | 2.788E-06 | 3262 |
| 130.3 | 50 | 5.086E-07 | 2.239E-06 | 3263 |
| 131.2 | 52 | 5.244E-07 | 2.307E-06 | 3264 |
| 132.2 | 52 | 5.244E-07 | 2.307E-06 | 3266 |
| 133.2 | 35 | 3.591E-07 | 1.580E-06 | 3267 |
| 134.2 | 28 | 2.930E-07 | 1.245E-06 | 3268 |
| 135.2 | 23 | 2.374E-07 | 1.045E-06 | 3270 |
| 136.2 | 25 | 2.626E-07 | 1.112E-06 | 3271 |
| 137.1 | 30 | 3.033E-07 | 1.335E-06 | 3272 |
| 138.1 | 30 | 3.033E-07 | 1.335E-06 | 3273 |
| 139.1 | 35 | 3.540E-07 | 1.558E-06 | 3274 |
| 140.1 | 60 | 6.023E-07 | 2.650E-06 | 3276 |
| 141.1 | 64 | 6.491E-07 | 2.856E-06 | 3277 |
| 142.0 | 68 | 6.803E-07 | 2.993E-06 | 3278 |
| 143.0 | 63 | 6.335E-07 | 2.788E-06 | 3279 |
| 144.0 | 61 | 6.179E-07 | 2.719E-06 | 3280 |
| 145.0 | 80 | 8.051E-07 | 3.542E-06 | 3281 |
| 146.0 | 88 | 8.830E-07 | 3.885E-06 | 3282 |
| 146.9 | 88 | 8.830E-07 | 3.885E-06 | 3283 |
| 147.9 | 108 | 1.096E-06 | 4.777E-06 | 3284 |
| 148.9 | 110 | 1.101E-06 | 4.846E-06 | 3285 |
| 149.9 | 52 | 5.244E-07 | 2.307E-06 | 3286 |
| 150.9 | 30 | 3.033E-07 | 1.335E-06 | 3287 |
| 151.8 | 31 | 3.135E-07 | 1.379E-06 | 3287 |
| 152.8 | 21 | 2.121E-07 | 9.332E-07 | 3288 |
| 153.8 | 18 | 1.817E-07 | 7.994E-07 | 3289 |
| 154.8 | 3 | 3.821E-08 | 1.681E-07 | 3290 |
| 155.7 | 5 | 5.497E-08 | 2.419E-07 | 3290 |
| 156.7 | 2 | 2.534E-08 | 1.115E-07 | 3291 |

CROSSWIND INTEGRATED= 9.009E-04 SEC/SQ.M 3.964E-03 1/M

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TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 110.0 | .4 | 742 | 3.885E-07 | 1.710E-06 | 200 |
| 110.0 | .8 | 1017 | 5.330E-07 | 2.345E-06 | 200 |
| 110.0 | 1.5 | 1621 | 8.489E-07 | 3.735E-06 | 200 |
| 110.0 | 2.5 | 2341 | 1.226E-06 | 5.394E-06 | 200 |
| 110.0 | 4.0 | 1573 | 8.238E-07 | 3.625E-06 | 200 |
| 110.0 | 5.5 | 1348 | 7.060E-07 | 3.106E-06 | 200 |
| 110.0 | 7.0 | 2156 | 1.129E-06 | 4.968E-06 | 200 |
| 110.0 | 8.5 | 2308 | 1.208E-06 | 5.317E-06 | 200 |
| 110.0 | 10.0 | 2142 | 1.122E-06 | 4.935E-06 | 200 |
| 110.0 | 13.0 | 1900 | 9.951E-07 | 4.379E-06 | 200 |
| 110.0 | 16.0 | 2071 | 1.085E-06 | 4.772E-06 | 200 |
| 110.0 | 19.0 | 256 | 1.343E-07 | 5.912E-07 | 200 |
| 110.0 | 22.0 | 376 | 1.971E-07 | 8.673E-07 | 200 |
| 110.0 | 25.0 | 458 | 2.400E-07 | 1.056E-06 | 200 |
| 110.0 | 28.0 | 168 | 8.823E-08 | 3.882E-07 | 200 |
| 110.0 | 31.0 | 253 | 1.326E-07 | 5.833E-07 | 200 |
| 110.0 | 32.8 | 152 | 7.977E-08 | 3.510E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 118.0 | .4 | 4860 | 2.545E-06 | 1.120E-05 | 200 |
| S 118.0 | .8 | 6573 | 3.442E-06 | 1.514E-05 | 200 |
| 118.0 | 1.5 | 9137 | 4.784E-06 | 2.105E-05 | 200 |
| 118.0 | 2.5 | 10601 | 5.551E-06 | 2.442E-05 | 200 |
| 118.0 | 4.0 | 8080 | 4.230E-06 | 1.861E-05 | 200 |
| 118.0 | 5.5 | 23712 | 1.241E-05 | 5.462E-05 | 200 |
| 118.0 | 7.0 | 34942 | 1.829E-05 | 8.049E-05 | 200 |
| 118.0 | 8.5 | 36509 | 1.911E-05 | 8.411E-05 | 200 |
| 118.0 | 10.0 | 35314 | 1.849E-05 | 8.135E-05 | 200 |
| 118.0 | 13.0 | 37790 | 1.979E-05 | 8.706E-05 | 200 |
| 118.0 | 16.0 | 43237 | 2.264E-05 | 9.961E-05 | 200 |
| 118.0 | 19.0 | 50094 | 2.623E-05 | 1.154E-04 | 200 |
| 118.0 | 22.0 | 33840 | 1.774E-05 | 7.805E-05 | 200 |
| 118.0 | 25.0 | 40520 | 2.122E-05 | 9.335E-05 | 200 |
| 118.0 | 28.0 | 50752 | 2.657E-05 | 1.169E-04 | 200 |
| 118.0 | 31.0 | 37294 | 1.953E-05 | 8.591E-05 | 200 |
| 118.0 | 32.8 | 22185 | 1.162E-05 | 5.111E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| O 126.0 | .4 | 2842 | 1.488E-06 | 6.546E-06 | 200 |
| O 126.0 | .8 | 4613 | 2.415E-06 | 1.063E-05 | 200 |
| 126.0 | 1.5 | 13389 | 7.010E-06 | 3.085E-05 | 200 |
| 126.0 | 2.5 | 19138 | 1.002E-05 | 4.409E-05 | 200 |
| 126.0 | 4.0 | 22534 | 1.180E-05 | 5.193E-05 | 200 |
| 126.0 | 5.5 | 27861 | 1.459E-05 | 6.418E-05 | 200 |
| 126.0 | 7.0 | 35944 | 1.882E-05 | 8.280E-05 | 200 |
| 126.0 | 8.5 | 49148 | 2.573E-05 | 1.132E-04 | 200 |
| 126.0 | 10.0 | 43054 | 2.254E-05 | 9.918E-05 | 200 |
| 126.0 | 13.0 | 71749 | 3.757E-05 | 1.653E-04 | 200 |
| 126.0 | 16.0 | 65567 | 3.433E-05 | 1.510E-04 | 200 |
| 126.0 | 19.0 | 71054 | 3.720E-05 | 1.637E-04 | 200 |
| 126.0 | 22.0 | 28569 | 1.496E-05 | 6.581E-05 | 200 |
| 126.0 | 25.0 | 72998 | 3.822E-05 | 1.682E-04 | 200 |
| 126.0 | 28.0 | 57914 | 3.032E-05 | 1.334E-04 | 200 |
| 126.0 | 31.0 | 33551 | 1.757E-05 | 7.729E-05 | 200 |
| 126.0 | 32.8 | 39425 | 2.064E-05 | 9.082E-05 | 200 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ANCDAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 110.0 | .4 | 26 | 2.608E-07 | 1.148E-06 | 200 |
| 110.0 | .8 | 23 | 2.392E-07 | 1.052E-06 | 200 |
| 110.0 | 1.5 | 49 | 4.932E-07 | 2.170E-06 | 200 |
| 110.0 | 2.5 | 68 | 6.824E-07 | 3.003E-06 | 200 |
| 110.0 | 4.0 | 29 | 2.932E-07 | 1.290E-06 | 200 |
| 110.0 | 5.5 | 91 | 9.108E-07 | 4.008E-06 | 200 |
| 110.0 | 7.0 | 82 | 8.230E-07 | 3.623E-06 | 200 |
| 110.0 | 8.5 | 60 | 6.054E-07 | 3.544E-06 | 200 |
| 110.0 | 10.0 | 69 | 7.000E-07 | 3.080E-06 | 200 |
| 110.0 | 13.0 | 57 | 5.770E-07 | 2.539E-06 | 200 |
| 110.0 | 16.0 | 68 | 6.824E-07 | 3.003E-06 | 200 |
| 110.0 | 19.0 | 13 | 1.378E-07 | 6.065E-07 | 200 |
| 110.0 | 22.0 | 16 | 1.689E-07 | 7.432E-07 | 200 |
| 110.0 | 25.0 | 17 | 1.743E-07 | 7.670E-07 | 200 |
| 110.0 | 28.0 | 11 | 1.162E-07 | 5.114E-07 | 200 |
| 110.0 | 31.0 | 12 | 1.243E-07 | 5.470E-07 | 200 |
| 110.0 | 32.8 | 11 | 1.149E-07 | 5.054E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 118.0 | .4 | 381 | 3.818E-06 | 1.680E-05 | 200 |
| S 118.0 | .8 | 360 | 3.611E-06 | 1.589E-05 | 200 |
| 118.0 | 1.5 | 322 | 3.229E-06 | 1.418E-05 | 200 |
| 118.0 | 2.5 | 403 | 4.034E-06 | 1.775E-05 | 200 |
| 118.0 | 4.0 | 22 | 2.230E-07 | 9.811E-07 | 200 |
| 118.0 | 5.5 | 609 | 6.091E-06 | 2.690E-05 | 200 |
| 118.0 | 7.0 | 698 | 6.989E-06 | 3.075E-05 | 200 |
| 118.0 | 8.5 | 788 | 7.886E-06 | 3.471E-05 | 200 |
| 118.0 | 10.0 | 1006 | 1.004E-05 | 4.420E-05 | 200 |
| 118.0 | 13.0 | 1471 | 1.472E-05 | 6.476E-05 | 200 |
| 118.0 | 16.0 | 1507 | 1.506E-05 | 6.634E-05 | 200 |
| 118.0 | 19.0 | 1943 | 1.944E-05 | 8.553E-05 | 200 |
| 118.0 | 22.0 | 1058 | 1.058E-05 | 4.657E-05 | 200 |
| 118.0 | 25.0 | 1633 | 1.634E-05 | 7.187E-05 | 200 |
| 118.0 | 28.0 | 2106 | 2.106E-05 | 9.267E-05 | 200 |
| 118.0 | 31.0 | 1651 | 1.651E-05 | 7.267E-05 | 200 |
| 118.0 | 32.8 | 1004 | 1.004E-05 | 4.420E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| O 126.0 | .4 | 252 | 2.520E-06 | 1.109E-05 | 200 |
| O 126.0 | .8 | 349 | 3.493E-06 | 1.537E-05 | 200 |
| 126.0 | 1.5 | 565 | 5.655E-06 | 2.488E-05 | 200 |
| 126.0 | 2.5 | 462 | 4.626E-06 | 2.036E-05 | 200 |
| 126.0 | 4.0 | 698 | 6.989E-06 | 3.075E-05 | 200 |
| 126.0 | 5.5 | 660 | 6.607E-06 | 2.907E-05 | 200 |
| 126.0 | 7.0 | 3318 | 3.318E-05 | 1.460E-04 | 200 |
| 126.0 | 8.5 | 4266 | 4.267E-05 | 1.877E-04 | 200 |
| 126.0 | 10.0 | 3792 | 3.793E-05 | 1.669E-04 | 200 |
| 126.0 | 13.0 | 6006 | 6.006E-05 | 2.643E-04 | 200 |
| 126.0 | 16.0 | 6796 | 6.797E-05 | 2.991E-04 | 200 |
| 126.0 | 19.0 | 7270 | 7.271E-05 | 3.199E-04 | 200 |
| 126.0 | 22.0 | 1322 | 1.322E-05 | 5.816E-05 | 200 |
| 126.0 | 25.0 | 7429 | 7.429E-05 | 3.269E-04 | 200 |
| 126.0 | 28.0 | 5215 | 5.216E-05 | 2.295E-04 | 200 |
| 126.0 | 31.0 | 5847 | 5.848E-05 | 2.573E-04 | 200 |
| 126.0 | 32.8 | 4266 | 4.267E-05 | 1.877E-04 | 200 |



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V2

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 18638 | 9.756E-06 | 4.294E-05 | 200 |
| 134.0 | .8 | 18627 | 9.753E-06 | 4.291E-05 | 200 |
| 134.0 | 1.5 | 15725 | 8.233E-06 | 3.623E-05 | 200 |
| 134.0 | 2.5 | 21505 | 1.126E-05 | 4.954E-05 | 200 |
| 134.0 | 4.0 | 26918 | 1.409E-05 | 6.201E-05 | 200 |
| 134.0 | 5.5 | 43162 | 2.260E-05 | 9.943E-05 | 200 |
| 134.0 | 7.0 | 51807 | 2.712E-05 | 1.193E-04 | 200 |
| 134.0 | 8.5 | 55927 | 2.928E-05 | 1.286E-04 | 200 |
| 134.0 | 10.0 | 61892 | 3.240E-05 | 1.426E-04 | 200 |
| 134.0 | 13.0 | 85880 | 4.496E-05 | 1.978E-04 | 200 |
| 134.0 | 16.0 | 76848 | 4.023E-05 | 1.770E-04 | 200 |
| 134.0 | 19.0 | 93422 | 4.891E-05 | 2.152E-04 | 200 |
| 134.0 | 22.0 | 75852 | 3.971E-05 | 1.747E-04 | 200 |
| 134.0 | 25.0 | 78664 | 4.119E-05 | 1.812E-04 | 200 |
| 134.0 | 28.0 | 59148 | 3.097E-05 | 1.363E-04 | 200 |
| E 134.0 | 31.0 | 45845 | 2.400E-05 | 1.056E-04 | 200 |
| 134.0 | 32.8 | 33850 | 1.772E-05 | 7.798E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 567 | 5.672E-06 | 2.496E-05 | 200 |
| 134.0 | .8 | 772 | 7.727E-06 | 3.400E-05 | 200 |
| 134.0 | 1.5 | 342 | 3.426E-06 | 1.507E-05 | 200 |
| 134.0 | 2.5 | 835 | 8.359E-06 | 3.678E-05 | 200 |
| 134.0 | 4.0 | 1326 | 1.326E-05 | 5.835E-05 | 200 |
| 134.0 | 5.5 | 1990 | 1.990E-05 | 8.757E-05 | 200 |
| 134.0 | 7.0 | 2417 | 2.417E-05 | 1.063E-04 | 200 |
| 134.0 | 8.5 | 2511 | 2.512E-05 | 1.105E-04 | 200 |
| 134.0 | 10.0 | 3792 | 3.793E-05 | 1.669E-04 | 200 |
| 134.0 | 13.0 | 5373 | 5.374E-05 | 2.364E-04 | 200 |
| 134.0 | 16.0 | 7587 | 7.587E-05 | 3.338E-04 | 200 |
| 134.0 | 19.0 | 6322 | 6.322E-05 | 2.782E-04 | 200 |
| 134.0 | 22.0 | 6796 | 6.797E-05 | 2.991E-04 | 200 |
| 134.0 | 25.0 | 8219 | 8.220E-05 | 3.617E-04 | 200 |
| 134.0 | 28.0 | 5847 | 5.848E-05 | 2.573E-04 | 200 |
| 134.0 | 31.0 | 345 | 3.458E-06 | 1.622E-05 | 200 |
| E 134.0 | 32.8 | 3160 | 3.160E-05 | 1.390E-04 | 200 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 193 | 1.015E-07 | 4.467E-07 | 833 |
| 112.6 | .5 | 147 | 7.697E-08 | 3.387E-07 | 833 |
| 112.6 | 1.1 | 72 | 3.779E-08 | 1.663E-07 | 833 |
| 112.6 | 1.5 | 124 | 6.508E-08 | 2.864E-07 | 833 |
| 112.6 | 2.1 | 31 | 1.667E-08 | 7.333E-08 | 833 |
| 112.6 | 4.2 | 173 | 9.080E-08 | 3.995E-07 | 833 |
| 112.6 | 6.3 | 52 | 2.756E-08 | 1.213E-07 | 833 |
| 112.6 | 8.4 | 76 | 4.031E-08 | 1.774E-07 | 833 |
| 112.6 | 10.5 | 75 | 3.975E-08 | 1.749E-07 | 833 |
| 112.6 | 12.6 | 152 | 7.965E-08 | 3.505E-07 | 833 |
| 112.6 | 14.7 | 94 | 4.942E-08 | 2.174E-07 | 833 |
| 112.6 | 16.8 | 162 | 8.506E-08 | 3.743E-07 | 833 |
| 112.6 | 21.0 | 150 | 7.896E-08 | 3.474E-07 | 833 |
| 112.6 | 25.2 | 99 | 5.184E-08 | 2.281E-07 | 833 |
| 112.6 | 29.4 | 102 | 5.345E-08 | 2.353E-07 | 833 |
| 112.6 | 33.6 | 148 | 7.752E-08 | 3.411E-07 | 833 |
| 112.6 | 37.8 | 91 | 4.772E-08 | 2.100E-07 | 833 |
| 112.6 | 42.0 | 214 | 1.124E-07 | 4.947E-07 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 5541 | 2.901E-06 | 1.277E-05 | 845 |
| 120.2 | .5 | 5353 | 2.803E-06 | 1.233E-05 | 845 |
| 120.2 | 1.1 | 6421 | 3.362E-06 | 1.479E-05 | 845 |
| 120.2 | 1.5 | 5457 | 2.857E-06 | 1.257E-05 | 845 |
| 120.2 | 2.1 | 5745 | 3.006E-06 | 1.324E-05 | 845 |
| 120.2 | 4.2 | 5400 | 2.827E-06 | 1.244E-05 | 845 |
| 120.2 | 6.3 | 5602 | 2.933E-06 | 1.291E-05 | 845 |
| 120.2 | 8.4 | 5392 | 2.823E-06 | 1.242E-05 | 845 |
| 120.2 | 10.5 | 5153 | 2.698E-06 | 1.187E-05 | 845 |
| 120.2 | 12.6 | 5087 | 2.664E-06 | 1.172E-05 | 845 |
| 120.2 | 14.7 | 4153 | 2.175E-06 | 9.569E-06 | 845 |
| 120.2 | 16.8 | 5383 | 2.818E-06 | 1.240E-05 | 845 |
| 120.2 | 21.0 | 4932 | 2.583E-06 | 1.136E-05 | 845 |
| 120.2 | 25.2 | 5154 | 2.699E-06 | 1.188E-05 | 845 |
| 120.2 | 29.4 | 3299 | 1.728E-06 | 7.601E-06 | 845 |
| S 120.2 | 33.6 | 2151 | 1.127E-06 | 4.957E-06 | 845 |
| 120.2 | 37.8 | 3740 | 1.958E-06 | 8.617E-06 | 845 |
| 120.2 | 42.0 | 3745 | 1.961E-06 | 8.627E-06 | 845 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 16 | 1.686E-07 | 7.420E-07 | 833 |
| 112.6 | .5 | 14 | 1.453E-07 | 6.384E-07 | 833 |
| 112.6 | 1.1 | 12 | 1.216E-07 | 5.349E-07 | 833 |
| 112.6 | 1.5 | 6 | 6.536E-08 | 2.876E-07 | 833 |
| 112.6 | 2.1 | 13 | 1.333E-07 | 5.867E-07 | 833 |
| 112.6 | 4.2 | 12 | 1.216E-07 | 5.349E-07 | 833 |
| 112.6 | 6.3 | 8 | 8.627E-08 | 3.796E-07 | 833 |
| 112.6 | 8.4 | 12 | 1.216E-07 | 5.349E-07 | 833 |
| 112.6 | 10.5 | 13 | 1.333E-07 | 5.867E-07 | 833 |
| 112.6 | 12.6 | 22 | 2.275E-07 | 1.001E-06 | 833 |
| 112.6 | 14.7 | 12 | 1.216E-07 | 5.349E-07 | 833 |
| 112.6 | 16.8 | 19 | 1.972E-07 | 8.455E-07 | 833 |
| 112.6 | 21.0 | 26 | 2.677E-07 | 1.156E-06 | 833 |
| 112.6 | 25.2 | 25 | 2.510E-07 | 1.104E-06 | 833 |
| 112.6 | 29.4 | 30 | 3.096E-07 | 1.363E-06 | 833 |
| 112.6 | 33.6 | 23 | 2.392E-07 | 1.053E-06 | 833 |
| 112.6 | 37.8 | 5 | 5.096E-08 | 2.243E-07 | 833 |
| 112.6 | 42.0 | 27 | 2.745E-07 | 1.208E-06 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 561 | 5.617E-06 | 2.471E-05 | 845 |
| 120.2 | .5 | 596 | 5.962E-06 | 2.623E-05 | 845 |
| 120.2 | 1.1 | 642 | 6.422E-06 | 2.826E-05 | 845 |
| 120.2 | 1.5 | 334 | 3.851E-06 | 1.694E-05 | 845 |
| 120.2 | 2.1 | 619 | 6.192E-06 | 2.725E-05 | 845 |
| 120.2 | 4.2 | 711 | 7.112E-06 | 3.129E-05 | 845 |
| 120.2 | 6.3 | 607 | 6.077E-06 | 2.674E-05 | 845 |
| 120.2 | 8.4 | 665 | 6.652E-06 | 2.927E-05 | 845 |
| 120.2 | 10.5 | 458 | 4.582E-06 | 2.016E-05 | 845 |
| 120.2 | 12.6 | 711 | 7.112E-06 | 3.129E-05 | 845 |
| 120.2 | 14.7 | 694 | 6.997E-06 | 3.079E-05 | 845 |
| 120.2 | 16.8 | 745 | 7.458E-06 | 3.281E-05 | 845 |
| 120.2 | 21.0 | 688 | 6.882E-06 | 3.028E-05 | 845 |
| 120.2 | 25.2 | 619 | 6.192E-06 | 2.725E-05 | 845 |
| 120.2 | 29.4 | 538 | 5.387E-06 | 2.370E-05 | 845 |
| S 120.2 | 33.6 | 262 | 2.626E-06 | 1.156E-05 | 845 |
| 120.2 | 37.8 | 492 | 4.927E-06 | 2.168E-05 | 845 |
| 120.2 | 42.0 | 487 | 4.875E-06 | 2.145E-05 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 10809 | 5.660E-06 | 2.490E-05 | 857 |
| 127.7 | .5 | 10689 | 5.597E-06 | 2.462E-05 | 857 |
| 127.7 | 1.1 | 9851 | 5.158E-06 | 2.269E-05 | 857 |
| 127.7 | 1.5 | 6477 | 3.391E-06 | 1.492E-05 | 857 |
| 127.7 | 2.1 | 10189 | 5.335E-06 | 2.347E-05 | 857 |
| 127.7 | 4.2 | 8364 | 4.379E-06 | 1.927E-05 | 857 |
| 127.7 | 6.3 | 8976 | 4.700E-06 | 2.068E-05 | 857 |
| 127.7 | 8.4 | 8486 | 4.443E-06 | 1.955E-05 | 857 |
| 127.7 | 10.5 | 7513 | 3.934E-06 | 1.731E-05 | 857 |
| 127.7 | 12.6 | 7209 | 3.775E-06 | 1.661E-05 | 857 |
| 127.7 | 14.7 | 6298 | 3.298E-06 | 1.451E-05 | 857 |
| 127.7 | 16.8 | 8649 | 4.528E-06 | 1.993E-05 | 857 |
| 127.7 | 21.0 | 1575 | 8.251E-07 | 3.630E-06 | 857 |
| 127.7 | 25.2 | 5939 | 3.110E-06 | 1.368E-05 | 857 |
| 127.7 | 29.4 | 4343 | 2.274E-06 | 1.001E-05 | 857 |
| 127.7 | 33.6 | 3267 | 1.711E-06 | 7.527E-06 | 857 |
| 127.7 | 37.8 | 838 | 4.389E-07 | 1.933E-06 | 857 |
| 127.7 | 42.0 | 2309 | 1.209E-06 | 5.320E-06 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 961 | 9.616E-06 | 4.231E-05 | 857 |
| 127.7 | .5 | 1190 | 1.191E-05 | 5.240E-05 | 857 |
| 127.7 | 1.1 | 869 | 8.698E-06 | 3.827E-05 | 857 |
| 127.7 | 1.5 | 641 | 6.413E-06 | 2.822E-05 | 857 |
| 127.7 | 2.1 | 1099 | 1.099E-05 | 4.837E-05 | 857 |
| 127.7 | 4.2 | 1007 | 1.007E-05 | 4.433E-05 | 857 |
| 127.7 | 6.3 | 778 | 7.78GE-06 | 3.423E-05 | 857 |
| 127.7 | 8.4 | 1007 | 1.007E-05 | 4.433E-05 | 857 |
| 127.7 | 10.5 | 1099 | 1.099E-05 | 4.837E-05 | 857 |
| 127.7 | 12.6 | 1053 | 1.053E-05 | 4.635E-05 | 857 |
| 127.7 | 14.7 | 961 | 9.616E-06 | 4.231E-05 | 857 |
| 127.7 | 16.8 | 854 | 8.545E-06 | 3.760E-05 | 857 |
| E 127.7 | 21.0 | 920 | 9.204E-06 | 4.050E-05 | 857 |
| 127.7 | 25.2 | 1007 | 1.007E-05 | 4.433E-05 | 857 |
| 127.7 | 29.4 | 839 | 8.392E-06 | 3.693E-05 | 857 |
| 127.7 | 33.6 | 716 | 7.169E-06 | 3.154E-05 | 857 |
| E 127.7 | 37.8 | 655 | 6.557E-06 | 2.885E-05 | 857 |
| B 127.7 | 42.0 | 609 | 6.096E-06 | 2.683E-05 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 11349 | 5.942E-06 | 2.615E-05 | 867 |
| 135.0 | .5 | 2467 | 1.292E-06 | 5.685E-06 | 867 |
| 135.0 | 1.1 | 9528 | 4.989E-06 | 2.195E-05 | 867 |
| 135.0 | 1.5 | 5799 | 3.036E-06 | 1.336E-05 | 867 |
| 135.0 | 2.1 | 10254 | 5.369E-06 | 2.362E-05 | 867 |
| 135.0 | 4.2 | 10206 | 5.344E-06 | 2.351E-05 | 867 |
| 135.0 | 6.3 | 5876 | 3.077E-06 | 1.354E-05 | 867 |
| 135.0 | 8.4 | 9869 | 5.167E-06 | 2.274E-05 | 867 |
| 135.0 | 10.5 | 4831 | 2.529E-06 | 1.113E-05 | 867 |
| 135.0 | 12.6 | 9196 | 4.815E-06 | 2.119E-05 | 867 |
| 135.0 | 14.7 | 7798 | 4.083E-06 | 1.796E-05 | 867 |
| 135.0 | 16.8 | 5237 | 2.742E-06 | 1.207E-05 | 867 |
| 135.0 | 21.0 | 7759 | 4.063E-06 | 1.788E-05 | 867 |
| 135.0 | 25.2 | 7541 | 3.948E-06 | 1.737E-05 | 867 |
| 135.0 | 29.4 | 6115 | 3.202E-06 | 1.409E-05 | 867 |
| 135.0 | 33.6 | 6190 | 3.241E-06 | 1.426E-05 | 867 |
| 135.0 | 37.8 | 5413 | 2.834E-06 | 1.247E-05 | 867 |
| 135.0 | 42.0 | 4162 | 2.180E-06 | 9.590E-06 | 867 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 839 | 8.392E-06 | 3.693E-05 | 867 |
| 135.0 | .5 | 245 | 2.451E-06 | 1.078E-05 | 867 |
| 135.0 | 1.1 | 1236 | 1.237E-05 | 5.442E-05 | 867 |
| 135.0 | 1.5 | 306 | 3.065E-06 | 1.349E-05 | 867 |
| 135.0 | 2.1 | 961 | 9.616E-06 | 4.231E-05 | 867 |
| 135.0 | 4.2 | 823 | 8.239E-06 | 3.625E-05 | 867 |
| 135.0 | 6.3 | 961 | 9.616E-06 | 4.231E-05 | 867 |
| 135.0 | 8.4 | 961 | 9.616E-06 | 4.231E-05 | 867 |
| 135.0 | 10.5 | 426 | 4.263E-06 | 1.876E-05 | 867 |
| 135.0 | 12.6 | 885 | 8.851E-06 | 3.894E-05 | 867 |
| 135.0 | 14.7 | 946 | 9.463E-06 | 4.164E-05 | 867 |
| 135.0 | 16.8 | 747 | 7.475E-06 | 3.289E-05 | 867 |
| 135.0 | 21.0 | 579 | 5.792E-06 | 2.549E-05 | 867 |
| 135.0 | 25.2 | 747 | 7.475E-06 | 3.289E-05 | 867 |
| 135.0 | 29.4 | 625 | 6.251E-06 | 2.750E-05 | 867 |
| 135.0 | 33.6 | 533 | 5.333E-06 | 2.347E-05 | 867 |
| 135.0 | 37.8 | 594 | 5.945E-06 | 2.616E-05 | 867 |
| 135.0 | 42.0 | 441 | 4.416E-06 | 1.943E-05 | 867 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 109.5 | .2 | 0 | 0. | 0. | 1630 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/G 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 109.5 | .2 | 0 | 0. | 0. | 1630 |



V2 1202007

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 266 | 1.395E-07 | 6.138E-07 | 1643 |
| 117.3 | .4 | 90 | 4.734E-08 | 2.083E-07 | 1643 |
| 117.3 | .8 | 117 | 6.146E-08 | 2.704E-07 | 1643 |
| 117.3 | 1.5 | 156 | 8.208E-08 | 3.612E-07 | 1643 |
| Z 117.3 | 1.6 | 0 | 0. | 0. | 1643 |
| Z 117.3 | 3.1 | 0 | 0. | 0. | 1643 |
| Z 117.3 | 6.2 | 8 | 4.251E-09 | 1.870E-08 | 1643 |
| Z 117.3 | 9.3 | 0 | 0. | 0. | 1643 |
| Z 117.3 | 12.4 | 68 | 3.588E-08 | 1.579E-07 | 1643 |
| Z 117.3 | 15.5 | 40 | 2.101E-08 | 9.244E-08 | 1643 |
| Z 117.3 | 18.6 | 8 | 4.362E-09 | 1.919E-08 | 1643 |
| Z 117.3 | 21.7 | 43 | 2.2[illegible]E-08 | 1.007E-07 | 1643 |
| 117.3 | 24.8 | 173 | 9.076E-08 | 3.993E-07 | 1643 |
| 117.3 | 31.0 | 113 | 5.923E-08 | 2.605E-07 | 1643 |
| 117.3 | 37.2 | 277 | 1.450E-07 | 6.382E-07 | 1643 |
| 117.3 | 43.4 | 262 | 1.373E-07 | 6.042E-07 | 1643 |
| 117.3 | 49.6 | 126 | 6.633E-08 | 2.918E-07 | 1643 |
| 117.3 | 55.8 | 421 | 2.208E-07 | 9.715E-07 | 1643 |
| 117.3 | 62.0 | 111 | 5.856E-08 | 2.577E-07 | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 11 | 1.190E-07 | 5.234E-07 | 1643 |
| 117.3 | .4 | 21 | 2.190E-07 | 9.672E-07 | 1643 |
| 117.3 | .8 | 14 | 1.422E-07 | 6.259E-07 | 1643 |
| 117.3 | 1.5 | 7 | 7.414E-08 | 3.262E-07 | 1643 |
| 117.3 | 1.6 | 0 | 0. | 0. | 1643 |
| L 117.3 | 3.1 | 0 | 0. | 0. | 1643 |
| L 117.3 | 6.2 | 0 | 0. | 0. | 1643 |
| L 117.3 | 9.3 | 0 | 0. | 0. | 1643 |
| L 117.3 | 12.4 | 0 | 0. | 0. | 1643 |
| L 117.3 | 15.5 | 0 | 0. | 0. | 1643 |
| L 117.3 | 18.6 | 0 | 0. | 0. | 1643 |
| Z 117.3 | 21.7 | 0 | 2.586E-09 | 1.138E-08 | 1643 |
| 117.3 | 24.8 | 31 | 3.179E-07 | 1.377E-06 | 1643 |
| 117.3 | 31.0 | 33 | 3.362E-07 | 1.479E-06 | 1643 |
| 117.3 | 37.2 | 32 | 3.284E-07 | 1.445E-06 | 1643 |
| 117.3 | 43.4 | 52 | 5.250E-07 | 2.310E-06 | 1643 |
| 117.3 | 49.6 | 20 | 2.043E-07 | 8.990E-07 | 1643 |
| 117.3 | 55.8 | 72 | 7.267E-07 | 3.196E-06 | 1643 |
| 117.3 | 62.0 | 0 | 2.586E-09 | 1.138E-08 | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| L 125.0 | .2 | 8 | [illegible] | [illegible] | 1655 |
| L 125.0 | .4 | 12 | [illegible] | [illegible] | 1655 |
| L 125.0 | .8 | 61 | 3.215E-08 | 1.423E-07 | 1655 |
| E 125.0 | 1.5 | 1929 | 1.010E-06 | 4.444E-06 | 1655 |
| 125.0 | 1.6 | 2688 | 1.407E-06 | 6.193E-06 | 1655 |
| 125.0 | 3.1 | 2395 | 1.254E-06 | 5.518E-06 | 1655 |
| 125.0 | 6.2 | 2886 | 1.511E-06 | 6.649E-06 | 1655 |
| 125.0 | 9.3 | 2497 | 1.307E-06 | 5.753E-06 | 1655 |
| 125.0 | 12.4 | 2636 | 1.380E-06 | 6.074E-06 | 1655 |
| 125.0 | 15.5 | 2202 | 1.153E-06 | 5.073E-06 | 1655 |
| 125.0 | 18.6 | 2796 | 1.464E-06 | 6.442E-06 | 1655 |
| 125.0 | 21.7 | 2866 | 1.491E-06 | 6.558E-06 | 1655 |
| 125.0 | 24.8 | 2745 | 1.437E-06 | 6.324E-06 | 1655 |
| 125.0 | 31.0 | 2899 | 1.518E-06 | 6.676E-06 | 1655 |
| 125.0 | 37.2 | 1809 | 9.473E-07 | 4.166E-06 | 1655 |
| 125.0 | 43.4 | 2336 | 1.223E-06 | 5.362E-06 | 1655 |
| 125.0 | 49.6 | 1682 | 8.809E-07 | 3.876E-06 | 1655 |
| 125.0 | 55.8 | 1465 | 7.673E-07 | 3.376E-06 | 1655 |
| 125.0 | 62.0 | 1528 | 8.004E-07 | 3.522E-06 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| L 125.0 | .2 | 1 | 0. | 0. | 1655 |
| L 125.0 | .4 | 0 | 0. | 0. | 1655 |
| L 125.0 | .8 | 0 | 0. | 0. | 1655 |
| E 125.0 | 1.5 | 88 | 6.836E-07 | 3.888E-06 | 1655 |
| 125.0 | 1.6 | 168 | 1.884E-06 | 8.266E-06 | 1655 |
| 125.0 | 3.1 | 249 | 2.491E-06 | 1.096E-05 | 1655 |
| 125.0 | 6.2 | 233 | 2.339E-06 | 1.029E-05 | 1655 |
| 125.0 | 9.3 | 256 | 2.566E-06 | 1.129E-05 | 1655 |
| 125.0 | 12.4 | 249 | 2.491E-06 | 1.096E-05 | 1655 |
| 125.0 | 15.5 | 317 | 3.173E-06 | 1.396E-05 | 1655 |
| 125.0 | 18.6 | 302 | 3.022E-06 | 1.329E-05 | 1655 |
| 125.0 | 21.7 | 241 | 2.415E-06 | 1.062E-05 | 1655 |
| 125.0 | 24.8 | 286 | 2.870E-06 | 1.263E-05 | 1655 |
| 125.0 | 31.0 | 233 | 2.339E-06 | 1.029E-05 | 1655 |
| 125.0 | 37.2 | 256 | 2.566E-06 | 1.129E-05 | 1655 |
| 125.0 | 43.4 | 264 | 2.642E-06 | 1.163E-05 | 1655 |
| 125.0 | 49.6 | 249 | 2.491E-06 | 1.096E-05 | 1655 |
| 125.0 | 55.8 | 211 | 2.111E-06 | 9.289E-06 | 1655 |
| E 125.0 | 62.0 | 180 | 1.806E-06 | 7.954E-06 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 2628 | 1.376E-06 | 6.056E-06 | 1665 |
| 132.5 | .4 | 2953 | 1.546E-06 | 6.804E-06 | 1665 |
| 132.5 | .8 | 2763 | 1.447E-06 | 6.366E-06 | 1665 |
| 132.5 | 1.5 | 2605 | 1.364E-06 | 6.003E-06 | 1665 |
| 132.5 | 1.6 | 2834 | 1.484E-06 | 6.529E-06 | 1665 |
| 132.5 | 3.1 | 2833 | 1.484E-06 | 6.528E-06 | 1665 |
| 132.5 | 6.2 | 2044 | 1.071E-06 | 4.710E-06 | 1665 |
| 132.5 | 9.3 | 1620 | 8.485E-07 | 3.734E-06 | 1665 |
| 132.5 | 12.4 | 2608 | 1.365E-06 | 6.008E-06 | 1665 |
| 132.5 | 15.5 | 1888 | 9.887E-07 | 4.350E-06 | 1665 |
| 132.5 | 18.6 | 2931 | 1.011E-06 | 4.450E-06 | 1665 |
| 132.5 | 21.7 | 883 | 4.624E-07 | 2.035E-06 | 1665 |
| 132.5 | 24.8 | 2000 | 1.048E-06 | 4.611E-06 | 1665 |
| 132.5 | 31.0 | 1686 | 8.828E-07 | 3.884E-06 | 1665 |
| 132.5 | 37.2 | 1565 | 8.199E-07 | 3.607E-06 | 1665 |
| 132.5 | 43.4 | 1665 | 8.721E-07 | 3.837E-06 | 1665 |
| 132.5 | 49.6 | 2159 | 1.131E-06 | 4.976E-06 | 1665 |
| 132.5 | 55.8 | 1169 | 6.122E-07 | 2.694E-06 | 1665 |
| 132.5 | 62.0 | 1193 | 6.250E-07 | 2.750E-06 | 1665 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 309 | 3.097E-06 | 1.363E-05 | 1665 |
| 132.5 | .4 | 286 | 2.870E-06 | 1.263E-05 | 1665 |
| 132.5 | .8 | 317 | 3.173E-06 | 1.396E-05 | 1665 |
| 132.5 | 1.5 | 136 | 1.366E-06 | 6.012E-06 | 1665 |
| 132.5 | 1.6 | 271 | 2.718E-06 | 1.196E-05 | 1665 |
| 132.5 | 3.1 | 256 | 2.566E-06 | 1.129E-05 | 1665 |
| 132.5 | 6.2 | 264 | 2.642E-06 | 1.163E-05 | 1665 |
| 132.5 | 9.3 | 302 | 3.022E-06 | 1.329E-05 | 1665 |
| 132.5 | 12.4 | 203 | 2.035E-06 | 8.956E-06 | 1665 |
| 132.5 | 15.5 | 294 | 2.946E-06 | 1.296E-05 | 1665 |
| 132.5 | 18.6 | 309 | 3.097E-06 | 1.363E-05 | 1665 |
| 132.5 | 21.7 | 271 | 2.718E-06 | 1.196E-05 | 1665 |
| 132.5 | 24.8 | 309 | 3.097E-06 | 1.363E-05 | 1665 |
| 132.5 | 31.0 | 241 | 2.415E-06 | 1.062E-05 | 1665 |
| 132.5 | 37.2 | 324 | 3.249E-06 | 1.430E-05 | 1665 |
| 132.5 | 43.4 | 286 | 2.870E-06 | 1.263E-05 | 1665 |
| 132.5 | 49.6 | 279 | 2.794E-06 | 1.229E-05 | 1665 |
| 132.5 | 55.8 | 142 | 1.428E-06 | 6.285E-06 | 1665 |
| E 132.5 | 62.0 | 249 | 2.491E-06 | 1.096E-05 | 1665 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 0 | 0. | 0. | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 123.4 | .2 | 258 | 1.352E-07 | 5.949E-07 | 3253 |
| 123.4 | .4 | 387 | 2.031E-07 | 8.935E-07 | 3253 |
| 123.4 | .8 | 371 | 1.947E-07 | 8.565E-07 | 3253 |
| 123.4 | 1.5 | 270 | 1.418E-07 | 6.239E-07 | 3253 |
| S 123.4 | 1.6 | 357 | 1.871E-07 | 8.230E-07 | 3253 |
| E 123.4 | 3.1 | 316 | 1.659E-07 | 7.301E-07 | 3253 |
| 123.4 | 6.2 | 293 | 1.537E-07 | 6.763E-07 | 3253 |
| 123.4 | 9.3 | 354 | 1.854E-07 | 8.159E-07 | 3253 |
| 123.4 | 12.4 | 451 | 2.363E-07 | 1.040E-06 | 3253 |
| 123.4 | 15.5 | 349 | 1.828E-07 | 8.042E-07 | 3253 |
| 123.4 | 18.6 | 111 | 5.813E-08 | 2.558E-07 | 3253 |
| 123.4 | 21.7 | 432 | 2.262E-07 | 9.953E-07 | 3253 |
| 123.4 | 24.8 | 397 | 2.083E-07 | 9.164E-07 | 3253 |
| 123.4 | 31.0 | 393 | 2.061E-07 | 9.069E-07 | 3253 |
| 123.4 | 37.2 | 349 | 1.828E-07 | 8.045E-07 | 3253 |
| 123.4 | 43.4 | 357 | 1.870E-07 | 8.229E-07 | 3253 |
| 123.4 | 49.6 | 321 | 1.6[illegible]E-07 | 7.404E-07 | 3253 |
| 123.4 | 55.8 | 432 | 2.264E-07 | 9.962E-07 | 3253 |
| 123.4 | 62.0 | 395 | 2.072E-07 | 9.118E-07 | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 131.2 | .2 | 6 | 3.575E-09 | 1.573E-08 | 3264 |
| 131.2 | .4 | 918 | 4.807E-07 | 2.115E-06 | 3264 |
| E 131.2 | .8 | 1024 | 5.363E-07 | 2.361E-06 | 3264 |
| 131.2 | 1.5 | 968 | 5.071E-07 | 2.231E-06 | 3264 |
| E 131.2 | 1.6 | 993 | 5.203E-07 | 2.289E-06 | 3264 |
| E 131.2 | 3.1 | 1021 | 5.349E-07 | 2.354E-06 | 3264 |
| E 131.2 | 6.2 | 1058 | 5.540E-07 | 2.438E-06 | 3264 |
| 131.2 | 9.3 | 1154 | 6.043E-07 | 2.659E-06 | 3264 |
| 131.2 | 12.4 | 1284 | 6.725E-07 | 2.959E-06 | 3264 |
| 131.2 | 15.5 | 1098 | 5.752E-07 | 2.531E-06 | 3264 |
| 131.2 | 18.6 | 866 | 4.537E-07 | 1.996E-06 | 3264 |
| S 131.2 | 21.7 | 1020 | 5.341E-07 | 2.350E-06 | 3264 |
| 131.2 | 24.8 | 1163 | 6.090E-07 | 2.680E-06 | 3264 |
| 131.2 | 31.0 | 1186 | 6.211E-07 | 2.733E-06 | 3264 |
| 131.2 | 37.2 | 936 | 4.903E-07 | 2.157E-06 | 3264 |
| 131.2 | 43.4 | 1052 | 5.511E-07 | 2.425E-06 | 3264 |
| T 131.2 | 49.6 | 780 | 4.089E-07 | 1.799E-06 | 3264 |
| 131.2 | 55.8 | 1155 | 6.049E-07 | 2.662E-06 | 3264 |
| 131.2 | 62.0 | 1032 | 5.404E-07 | 2.378E-06 | 3264 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 0 | 0. | 0. | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 123.4 | .2 | 34 | 3.489E-07 | 1.535E-06 | 3253 |
| 123.4 | .4 | 36 | 3.676E-07 | 1.595E-06 | 3253 |
| 123.4 | .8 | 25 | 2.534E-07 | 1.115E-06 | 3253 |
| 123.4 | 1.5 | 19 | 1.945E-07 | 5.918E-07 | 3253 |
| 123.4 | 1.6 | 41 | 4.172E-07 | 1.835E-06 | 3253 |
| L 123.4 | 3.1 | 33 | 3.353E-07 | 1.475E-06 | 3253 |
| 123.4 | 6.2 | 25 | 2.534E-07 | 1.115E-06 | 3253 |
| 123.4 | 9.3 | 29 | 2.943E-07 | 1.295E-06 | 3253 |
| 123.4 | 12.4 | 34 | 3.489E-07 | 1.535E-06 | 3253 |
| 123.4 | 15.5 | 34 | 3.489E-07 | 1.535E-06 | 3253 |
| 123.4 | 18.6 | 34 | 3.489E-07 | 1.535E-06 | 3253 |
| 123.4 | 21.7 | 36 | 3.676E-07 | 1.595E-06 | 3253 |
| 123.4 | 24.8 | 32 | 3.216E-07 | 1.415E-06 | 3253 |
| 123.4 | 31.0 | 30 | 3.080E-07 | 1.355E-06 | 3253 |
| 123.4 | 37.2 | 30 | 3.080E-07 | 1.355E-06 | 3253 |
| 123.4 | 43.4 | 30 | 3.080E-07 | 1.355E-06 | 3253 |
| 123.4 | 49.6 | 32 | 3.216E-07 | 1.415E-06 | 3253 |
| B 123.4 | 55.8 | 41 | 4.172E-07 | 1.835E-06 | 3253 |
| L 123.4 | 62.0 | 0 | 0. | 0. | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 131.2 | .2 | 0 | 6.187E-09 | 3.602E-08 | 3264 |
| 131.2 | .4 | 95 | 9.548E-07 | 4.201E-06 | 3264 |
| 131.2 | .8 | 112 | 1.126E-06 | 4.956E-06 | 3264 |
| 131.2 | 1.5 | 52 | 5.244E-07 | 2.307E-06 | 3264 |
| E 131.2 | 1.6 | 119 | 1.195E-06 | 5.258E-06 | 3264 |
| E 131.2 | 3.1 | 126 | 1.264E-06 | 5.560E-06 | 3264 |
| F 131.2 | 6.2 | 133 | 1.332E-06 | 5.862E-06 | 3264 |
| 131.2 | 9.3 | 140 | 1.401E-06 | 6.163E-06 | 3264 |
| 131.2 | 12.4 | 126 | 1.264E-06 | 5.560E-06 | 3264 |
| 131.2 | 15.5 | 122 | 1.224E-06 | 5.409E-06 | 3264 |
| 131.2 | 18.6 | 85 | 8.519E-07 | 3.748E-06 | 3264 |
| 131.2 | 21.7 | 98 | 9.891E-07 | 4.352E-06 | 3264 |
| 131.2 | 24.8 | 119 | 1.195E-06 | 5.258E-06 | 3264 |
| 131.2 | 31.0 | 122 | 1.229E-06 | 5.409E-06 | 3264 |
| 131.2 | 37.2 | 102 | 1.023E-06 | 4.503E-06 | 3264 |
| O 131.2 | 43.4 | 81 | 8.175E-07 | 3.597E-06 | 3264 |
| O 131.2 | 49.6 | 61 | 6.117E-07 | 2.691E-06 | 3264 |
| O 131.2 | 55.8 | 133 | 1.332E-06 | 5.862E-06 | 3264 |
| O 131.2 | 62.0 | 129 | 1.298E-06 | 5.711E-06 | 3264 |

KR-85 SAMPLING AT 200, 800 AND 1600M; TOWER SAMPLING AT 200 AND 800M. ALL CROSSWIND DISTRIBUTIONS TRUNCATED ON SOUTH. SIX OF TEN TOWERS "HIT", BUT DISTRIBUTIONS TRUNCATED AT TOP; MAY HAVE BEEN TRACER ON TOWER AT 800M, 112.6 DEG, BUT VERY NEAR BACKGROUND. LOW VOLTAGES ON MANY 800M SENSORS MAY HAVE LEAD TO UNDERESTIMATES OF X/Q.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | X/Q SEC/CU.M | FU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 47 | 2.465E-07 | 1.084E-06 | 200 |
| 108.0 | 67 | 3.507E-07 | 1.543E-06 | 200 |
| 110.0 | 87 | 4.550E-07 | 2.002E-06 | 200 |
| 112.0 | 212 | 1.109E-06 | 4.660E-06 | 200 |
| 114.0 | 582 | 3.033E-06 | 1.335E-05 | 200 |
| 116.0 | 877 | 4.569E-06 | 2.010E-05 | 200 |
| 118.0 | 380 | 1.961E-06 | 6.717E-06 | 200 |
| 120.0 | 636 | 3.318E-06 | 1.460E-05 | 200 |
| 122.0 | 980 | 5.109E-06 | 2.248E-05 | 200 |
| 124.0 | 502 | 2.616E-06 | 1.151E-05 | 200 |
| 126.0 | 813 | 4.237E-06 | 1.864E-05 | 200 |
| 128.0 | 1113 | 5.801E-06 | 2.553E-05 | 200 |
| 130.0 | 886 | 4.616E-06 | 2.031E-05 | 200 |
| 132.0 | 971 | 5.062E-06 | 2.227E-05 | 200 |
| 134.0 | 662 | 3.450E-06 | 1.518E-05 | 200 |
| 136.0 | 626 | 3.261E-06 | 1.435E-05 | 200 |
| 138.0 | 636 | 3.318E-06 | 1.460E-05 | 200 |
| 140.0 | 733 | 3.820E-06 | 1.681E-05 | 200 |
| 142.0 | 968 | 5.043E-06 | 2.219E-05 | 200 |
| 144.0 | 980 | 5.147E-06 | 2.265E-05 | 200 |
| 146.0 | 777 | 4.044E-06 | 1.781E-05 | 200 |
| 148.0 | 939 | 4.891E-06 | 2.152E-05 | 200 |

CROSSWIND INTEGRATED= 5.270E-04 SEC/SQ.M 2.319E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | X/Q SEC/CU.M | FU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 114.5 | 56 | 2.939E-07 | 1.295E-06 | 836 |
| L 116.4 | 0 | 0. | 0. | 839 |
| 118.3 | 127 | 7.035E-07 | 2.920E-06 | 842 |
| V 120.2 | 214 | 1.119E-06 | 4.922E-06 | 845 |
| V 122.1 | 323 | 1.687E-06 | 7.424E-06 | 848 |
| V 124.0 | 192 | 1.005E-06 | 4.421E-06 | 851 |
| V 125.8 | 386 | 1.981E-06 | 8.717E-06 | 854 |
| L 127.7 | 0 | 0. | 0. | 857 |
| L 129.5 | 0 | 0. | 0. | 859 |
| V 131.4 | 107 | 5.593E-07 | 2.461E-06 | 862 |
| V 133.2 | 320 | 1.666E-06 | 7.341E-06 | 865 |
| V 135.0 | 271 | 1.412E-06 | 6.215E-06 | 867 |
| V 136.8 | 291 | 1.517E-06 | 6.673E-06 | 869 |
| V 138.7 | 154 | 8.247E-07 | 3.629E-06 | 872 |

CROSSWIND INTEGRATED= 3.522E-04 SEC/SQ.M 1.552E-03 1/M

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | X/Q SEC/CU.M | FU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 114.4 | 89 | 4.645E-07 | 2.044E-06 | 1639 |
| 115.3 | 29 | 1.517E-07 | 6.673E-07 | 1640 |
| 116.3 | 14 | 7.582E-08 | 3.337E-07 | 1641 |
| 117.3 | 1 | 9.473E-09 | 4.171E-08 | 1643 |
| 118.2 | 98 | 5.114E-07 | 2.252E-06 | 1644 |
| L 119.2 | 0 | 0. | 0. | 1646 |
| 120.2 | 85 | 4.438E-07 | 1.953E-06 | 1647 |
| 121.2 | 178 | 9.290E-07 | 4.087E-06 | 1649 |
| 122.1 | 125 | 6.541E-07 | 2.878E-06 | 1650 |
| 123.1 | 236 | 1.232E-06 | 5.422E-06 | 1652 |
| 124.1 | 123 | 6.446E-07 | 2.836E-06 | 1653 |
| R 125.0 | 425 | 2.218E-06 | 9.760E-06 | 1655 |

CROSSWIND INTEGRATED= 2.023E-04 SEC/SQ.M 8.900E-04 1/M

1202890

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 192.0 | 1.5 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 110.0 | 1.5 | 87 | 4.550E-07 | 2.002E-06 | 200 |
| L 110.0 | 4.0 | 0 | 0. | 0. | 200 |
| 110.0 | 7.0 | 47 | 2.465E-07 | 1.084E-06 | 200 |
| 110.0 | 13.0 | 227 | 1.185E-06 | 5.214E-06 | 200 |
| 110.0 | 19.0 | 107 | 5.593E-07 | 2.461E-06 | 200 |
| 110.0 | 25.0 | 50 | 2.654E-07 | 1.168E-06 | 200 |
| L 110.0 | 32.8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | 1.5 | 360 | 1.881E-06 | 8.717E-06 | 200 |
| 118.0 | 4.0 | 680 | 3.545E-06 | 1.560E-05 | 200 |
| 118.0 | 7.0 | 2386 | 1.243E-05 | 5.468E-05 | 200 |
| 118.0 | 13.0 | 2449 | 1.276E-05 | 5.614E-05 | 200 |
| 118.0 | 19.0 | 3720 | 1.936E-05 | 8.525E-05 | 200 |
| 118.0 | 25.0 | 3461 | 1.803E-05 | 7.933E-05 | 200 |
| 118.0 | 32.8 | 3894 | 2.029E-05 | 8.926E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 126.0 | 1.5 | 814 | 4.237E-06 | 1.864E-05 | 200 |
| 126.0 | 4.0 | 1597 | 8.266E-06 | 3.637E-05 | 200 |
| 126.0 | 7.0 | 2462 | 1.283E-05 | 5.643E-05 | 200 |
| 126.0 | 13.0 | 5045 | 2.626E-05 | 1.156E-04 | 200 |
| 126.0 | 19.0 | 4437 | 2.311E-05 | 1.017E-04 | 200 |
| 126.0 | 25.0 | 5902 | 3.074E-05 | 1.353E-04 | 200 |
| L 126.0 | 32.8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | 1.5 | 662 | 3.450E-06 | 1.518E-05 | 200 |
| 134.0 | 4.0 | 1011 | 5.270E-06 | 2.319E-05 | 200 |
| 134.0 | 7.0 | 2191 | 1.141E-05 | 5.022E-05 | 200 |
| 134.0 | 13.0 | 3847 | 2.004E-05 | 8.817E-05 | 200 |
| 134.0 | 19.0 | 5166 | 2.691E-05 | 1.184E-04 | 200 |
| 134.0 | 25.0 | 5732 | 2.986E-05 | 1.314E-04 | 200 |
| 134.0 | 32.8 | 2498 | 1.301E-05 | 5.727E-05 | 200 |

TOWER DATA FOLLOW....

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
800M ARC U= 4.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | 1.5 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 112.6 | 1.5 | 0 | 0. | 0. | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| V 120.2 | 1.5 | 214 | 1.119E-06 | 4.922E-06 | 845 |
| V 120.2 | 5.0 | 343 | 1.792E-06 | 7.883E-06 | 845 |
| V 120.2 | 12.0 | 243 | 1.270E-06 | 5.589E-06 | 845 |
| V 120.2 | 19.0 | 362 | 1.886E-06 | 8.300E-06 | 845 |
| 120.2 | 26.0 | 505 | 2.635E-06 | 1.159E-05 | 845 |
| 120.2 | 34.0 | 316 | 1.649E-06 | 7.257E-06 | 845 |
| 120.2 | 42.0 | 389 | 2.029E-06 | 8.926E-06 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| L 127.7 | 1.5 | 0 | 0. | 0. | 857 |
| 127.7 | 5.0 | 553 | 2.882E-06 | 1.268E-05 | 857 |
| 127.7 | 12.0 | 602 | 3.138E-06 | 1.381E-05 | 857 |
| 127.7 | 19.0 | 576 | 3.003E-06 | 1.322E-05 | 857 |
| 127.7 | 26.0 | 429 | 2.237E-06 | 9.843E-06 | 857 |
| L 127.7 | 34.0 | 0 | 0. | 0. | 857 |
| 127.7 | 42.0 | 545 | 2.844E-06 | 1.251E-05 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| V 135.0 | 1.5 | 271 | 1.412E-06 | 6.215E-06 | 867 |
| L 135.0 | 5.0 | 0 | 0. | 0. | 867 |
| 135.0 | 12.0 | 624 | 3.251E-06 | 1.431E-05 | 867 |
| 135.0 | 19.0 | 445 | 2.266E-06 | 9.966E-06 | 867 |
| 135.0 | 26.0 | 594 | 3.094E-06 | 1.360E-05 | 867 |
| 135.0 | 34.0 | 385 | 2.010E-06 | 8.842E-06 | 867 |
| 135.0 | 42.0 | 454 | 2.369E-06 | 1.051E-05 | 867 |

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. MOST ARCS TRUNCATED ON SOUTH END, BUT CENTERLINE ALWAYS OBSERVED. MOST VERTICAL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS.

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 114.0 | 0 | 0. | 0. | 200 |
| 116.0 | 26 | 2.010E-08 | 8.441E-08 | 200 |
| 118.0 | 1454 | 1.094E-06 | 4.593E-06 | 200 |
| 120.0 | 4373 | 3.288E-06 | 1.381E-05 | 200 |
| 122.0 | 21363 | 1.606E-05 | 6.747E-05 | 200 |
| 124.0 | 17722 | 1.332E-05 | 5.596E-05 | 200 |
| 126.0 | 8527 | 6.412E-06 | 2.693E-05 | 200 |
| 128.0 | 10520 | 7.910E-06 | 3.322E-05 | 200 |
| 130.0 | 12042 | 9.055E-06 | 3.803E-05 | 200 |
| 132.0 | 15128 | 1.137E-05 | 4.777E-05 | 200 |
| 134.0 | 23407 | 1.760E-05 | 7.392E-05 | 200 |
| 136.0 | 25767 | 1.937E-05 | 8.137E-05 | 200 |
| 138.0 | 44874 | 3.374E-05 | 1.417E-04 | 200 |
| 140.0 | 45468 | 3.419E-05 | 1.436E-04 | 200 |
| 142.0 | 47362 | 3.561E-05 | 1.496E-04 | 200 |
| 144.0 | 45963 | 3.456E-05 | 1.451E-04 | 200 |
| 146.0 | 37456 | 2.816E-05 | 1.183E-04 | 200 |
| 148.0 | 25699 | 1.932E-05 | 8.116E-05 | 200 |
| 150.0 | 17255 | 1.297E-05 | 5.449E-05 | 200 |
| 152.0 | 20068 | 1.509E-05 | 6.337E-05 | 200 |
| 154.0 | 15269 | 1.148E-05 | 4.822E-05 | 200 |
| 156.0 | 12245 | 9.207E-06 | 3.867E-05 | 200 |
| 158.0 | 6261 | 4.708E-06 | 1.977E-05 | 200 |
| B 160.0 | 5710 | 4.293E-06 | 1.803E-05 | 200 |

CROSSWIND INTEGRATED= 2.435E-03 SEC/SQ.M 1.023E-02 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 116.0 | 53 | 5.306E-07 | 2.228E-06 | 200 |
| 118.0 | 153 | 1.531E-06 | 6.431E-06 | 200 |
| 120.0 | 142 | 1.424E-06 | 5.982E-06 | 200 |
| 122.0 | 754 | 7.549E-06 | 3.171E-05 | 200 |
| 124.0 | 498 | 4.985E-06 | 2.094E-05 | 200 |
| 126.0 | 477 | 4.771E-06 | 2.004E-05 | 200 |
| 128.0 | 487 | 4.878E-06 | 2.049E-05 | 200 |
| 130.0 | 224 | 2.243E-06 | 9.422E-06 | 200 |
| 132.0 | 284 | 2.849E-06 | 1.196E-05 | 200 |
| 134.0 | 658 | 6.588E-06 | 2.767E-05 | 200 |
| 136.0 | 712 | 7.122E-06 | 2.991E-05 | 200 |
| 138.0 | 1207 | 1.207E-05 | 5.070E-05 | 200 |
| 140.0 | 1385 | 1.385E-05 | 5.818E-05 | 200 |
| 142.0 | 1171 | 1.172E-05 | 4.920E-05 | 200 |
| 144.0 | 1171 | 1.172E-05 | 4.920E-05 | 200 |
| 146.0 | 1456 | 1.456E-05 | 6.117E-05 | 200 |
| 148.0 | 851 | 8.510E-06 | 3.574E-05 | 200 |
| 150.0 | 551 | 5.519E-06 | 2.316E-05 | 200 |
| 152.0 | 733 | 7.335E-06 | 3.081E-05 | 200 |
| 154.0 | 466 | 4.665E-06 | 1.959E-05 | 200 |
| 156.0 | 434 | 4.344E-06 | 1.825E-05 | 200 |
| 158.0 | 163 | 1.638E-06 | 6.879E-06 | 200 |
| B 160.0 | 145 | 1.460E-06 | 6.132E-06 | 200 |

CROSSWIND INTEGRATED= 9.857E-04 SEC/SQ.M 4.140E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 114.0 | 0 | 0. | 0. | 400 |
| 118.0 | 9 | 7.275E-09 | 3.056E-08 | 400 |
| 122.0 | 1128 | 8.486E-07 | 3.564E-06 | 400 |
| 126.0 | 4674 | 3.515E-06 | 1.476E-05 | 400 |
| 130.0 | 8564 | 6.439E-06 | 2.704E-05 | 400 |
| 134.0 | 9756 | 7.336E-06 | 3.081E-05 | 400 |
| 138.0 | 31512 | 2.369E-05 | 9.951E-05 | 400 |
| 142.0 | 20918 | 1.573E-05 | 6.606E-05 | 400 |
| 146.0 | 24548 | 1.846E-05 | 7.752E-05 | 400 |
| 150.0 | 12034 | 9.048E-06 | 3.800E-05 | 400 |
| B 154.0 | 5173 | 3.890E-06 | 1.634E-05 | 400 |

CROSSWIND INTEGRATED= 2.484E-03 SEC/SQ.M 1.043E-02 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 118.0 | 0 | 0. | 0. | 400 |
| 122.0 | 86 | 8.627E-07 | 3.624E-06 | 400 |
| 126.0 | 341 | 3.420E-06 | 1.436E-05 | 400 |
| 130.0 | 591 | 5.914E-06 | 2.484E-05 | 400 |
| 134.0 | 965 | 9.656E-06 | 4.056E-05 | 400 |
| 138.0 | 1682 | 1.683E-05 | 7.068E-05 | 400 |
| 142.0 | 1963 | 1.964E-05 | 8.247E-05 | 400 |
| 146.0 | 1932 | 1.932E-05 | 8.116E-05 | 400 |
| 150.0 | 840 | 8.409E-06 | 3.532E-05 | 400 |
| B 154.0 | 383 | 3.836E-06 | 1.611E-05 | 400 |

CROSSWIND INTEGRATED= 2.454E-03 SEC/SQ.M 1.031E-02 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 120.2 | 0 | 0. | 0. | 845 |
| 122.1 | 30 | 2.268E-08 | 9.526E-08 | 848 |
| 124.0 | 104 | 7.857E-08 | 3.300E-07 | 851 |
| 125.8 | 119 | 8.991E-08 | 3.776E-07 | 854 |
| 127.7 | 396 | 2.981E-07 | 1.252E-06 | 857 |
| 129.5 | 1117 | 8.400E-07 | 3.528E-06 | 859 |
| 131.4 | 1929 | 1.451E-06 | 6.093E-06 | 862 |
| 133.2 | 4899 | 3.684E-06 | 1.547E-05 | 865 |
| 135.0 | 3859 | 2.902E-06 | 1.219E-05 | 867 |
| 136.8 | 7682 | 5.776E-06 | 2.426E-05 | 869 |
| 138.7 | 3117 | 2.344E-06 | 9.846E-06 | 872 |
| 140.6 | 5632 | 4.235E-06 | 1.779E-05 | 874 |
| 142.4 | 6220 | 4.677E-06 | 1.964E-05 | 876 |
| 144.2 | 6283 | 4.724E-06 | 1.984E-05 | 878 |
| 146.0 | 4244 | 3.192E-06 | 1.340E-05 | 880 |
| 147.8 | 6497 | 4.885E-06 | 2.052E-05 | 882 |
| 149.6 | 4398 | 3.307E-06 | 1.389E-05 | 884 |
| 151.4 | 2795 | 2.102E-06 | 8.829E-06 | 886 |
| 153.2 | 3791 | 2.851E-06 | 1.197E-05 | 887 |
| 155.0 | 1846 | 1.388E-06 | 5.831E-06 | 889 |
| 156.8 | 1228 | 4.234E-07 | 3.978E-06 | 890 |
| 158.6 | 745 | 5.605E-07 | 2.354E-06 | 892 |
| 160.4 | 613 | 4.609E-07 | 1.936E-06 | 893 |
| W 162.2 | 233 | 1.758E-07 | 7.383E-07 | 894 |

CROSSWIND INTEGRATED= 1.416E-03 SEC/SQ.M 5.949E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 120.2 | 0 | 0. | 0. | 845 |
| 122.1 | 3 | 3.100E-08 | 1.302E-07 | 848 |
| 124.0 | 1 | 1.033E-08 | 4.340E-08 | 851 |
| 125.8 | 5 | 5.511E-08 | 2.315E-07 | 854 |
| 127.7 | 24 | 2.480E-07 | 1.042E-06 | 857 |
| 129.5 | 46 | 4.616E-07 | 1.939E-06 | 859 |
| 131.4 | 96 | 9.644E-07 | 4.051E-06 | 862 |
| 133.2 | 268 | 2.667E-06 | 1.120E-05 | 865 |
| 135.0 | 161 | 1.619E-06 | 6.799E-06 | 867 |
| 136.8 | 378 | 3.789E-06 | 1.591E-05 | 869 |
| 138.7 | 75 | 7.509E-07 | 3.154E-06 | 872 |
| 140.6 | 327 | 3.272E-06 | 1.374E-05 | 874 |
| 142.4 | 327 | 3.272E-06 | 1.374E-05 | 876 |
| 144.2 | 409 | 4.099E-06 | 1.722E-05 | 878 |
| 146.0 | 420 | 4.202E-06 | 1.765E-05 | 880 |
| 147.8 | 409 | 4.099E-06 | 1.722E-05 | 882 |
| 149.6 | 296 | 2.962E-06 | 1.244E-05 | 884 |
| 151.4 | 172 | 1.722E-06 | 7.233E-06 | 886 |
| 153.2 | 144 | 1.447E-06 | 6.076E-06 | 887 |
| 155.0 | 151 | 1.516E-06 | 6.365E-06 | 889 |
| 156.8 | 65 | 6.544E-07 | 2.749E-06 | 890 |
| 158.6 | 47 | 4.719E-07 | 1.982E-06 | 892 |
| 160.4 | 35 | 3.996E-07 | 1.678E-06 | 893 |
| W 162.2 | 19 | 1.929E-07 | 8.101E-07 | 894 |

CROSSWIND INTEGRATED= 1.301E-03 SEC/SQ.M 5.536E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 124.0 | 1 | 1.023E-09 | 4.295E-09 | 1200 |
| 126.0 | 22 | 1.721E-08 | 7.230E-08 | 1200 |
| 128.0 | 26 | 1.995E-08 | 8.375E-08 | 1200 |
| 130.0 | 174 | 1.311E-07 | 5.505E-07 | 1200 |
| 132.0 | 643 | 4.835E-07 | 2.031E-06 | 1200 |
| S 134.0 | 717 | 5.397E-07 | 2.267E-06 | 1200 |
| 136.0 | 2000 | 1.504E-06 | 6.316E-06 | 1200 |
| 138.0 | 1971 | 1.483E-06 | 6.227E-06 | 1200 |
| 140.0 | 1045 | 7.864E-07 | 3.303E-06 | 1200 |
| 142.0 | 1564 | 1.176E-06 | 4.940E-06 | 1200 |
| 144.0 | 1432 | 1.077E-06 | 4.523E-06 | 1200 |
| 146.0 | 819 | 6.163E-07 | 2.588E-06 | 1200 |
| 148.0 | 793 | 5.965E-07 | 2.505E-06 | 1200 |
| 150.0 | 568 | 4.276E-07 | 1.796E-06 | 1200 |
| 152.0 | 396 | 2.981E-07 | 1.252E-06 | 1200 |
| 154.0 | 703 | 5.297E-07 | 2.220E-06 | 1200 |
| 156.0 | 671 | 5.052E-07 | 2.121E-06 | 1200 |

CROSSWIND INTEGRATED= 4.269E-04 SEC/SQ.M 1.793E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
BOOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 126.0 | 0 | 4.638E-09 | 1.946E-08 | 1200 |
| 128.0 | 6 | 6.609E-08 | 2.776E-07 | 1200 |
| 130.0 | 17 | 1.768E-07 | 7.427E-07 | 1200 |
| 132.0 | 60 | 6.000E-07 | 2.520E-06 | 1200 |
| S 134.0 | 61 | 6.174E-07 | 2.593E-06 | 1200 |
| 136.0 | 196 | 1.962E-06 | 8.242E-06 | 1200 |
| 138.0 | 175 | 1.789E-06 | 7.512E-06 | 1200 |
| 140.0 | 202 | 2.020E-06 | 8.484E-06 | 1200 |
| 142.0 | 196 | 1.962E-06 | 8.242E-06 | 1200 |
| 144.0 | 277 | 2.774E-06 | 1.165E-05 | 1200 |
| 146.0 | 207 | 2.078E-06 | 8.729E-06 | 1200 |
| 148.0 | 173 | 1.731E-06 | 7.268E-06 | 1200 |
| 150.0 | 96 | 9.653E-07 | 4.054E-06 | 1200 |
| 152.0 | 73 | 7.342E-07 | 3.083E-06 | 1200 |
| 154.0 | 93 | 9.305E-07 | 3.908E-06 | 1200 |
| E 156.0 | 94 | 9.479E-07 | 3.981E-06 | 1200 |

CROSSWIND INTEGRATED= 6.112E-04 SEC/SQ.M 3.407E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 126.9 | 0 | 0. | 0. | 1658 |
| 127.8 | 21 | 1.626E-08 | 6.829E-08 | 1659 |
| 128.8 | 56 | 4.239E-08 | 1.780E-07 | 1660 |
| 129.7 | 200 | 1.510E-07 | 6.341E-07 | 1662 |
| 130.6 | 303 | 2.282E-07 | 9.584E-07 | 1663 |
| 131.5 | 394 | 2.967E-07 | 1.246E-06 | 1664 |
| 132.5 | 249 | 1.876E-07 | 7.877E-07 | 1665 |
| 133.5 | 569 | 4.285E-07 | 1.800E-06 | 1667 |
| 134.4 | 841 | 6.323E-07 | 2.656E-06 | 1668 |
| 135.4 | 1236 | 9.296E-07 | 3.904E-06 | 1669 |
| 136.4 | 1301 | 9.784E-07 | 4.109E-06 | 1670 |
| 137.3 | 1292 | 9.720E-07 | 4.083E-06 | 1672 |
| 138.3 | 1482 | 1.114E-06 | 4.680E-06 | 1673 |
| 139.3 | 1144 | 8.605E-07 | 3.614E-06 | 1674 |
| 140.2 | 1407 | 1.058E-06 | 4.443E-06 | 1675 |
| 141.2 | 1333 | 1.003E-06 | 4.212E-06 | 1676 |
| 142.2 | 959 | 7.218E-07 | 3.031E-06 | 1677 |
| 143.1 | 1362 | 1.024E-06 | 4.302E-06 | 1678 |
| 144.1 | 1430 | 1.075E-06 | 4.517E-06 | 1679 |
| 145.1 | 1135 | 8.536E-07 | 3.585E-06 | 1680 |
| 146.0 | 1056 | 7.943E-07 | 3.336E-06 | 1681 |
| 146.9 | 1246 | 9.372E-07 | 3.936E-06 | 1682 |
| 147.9 | 1102 | 8.292E-07 | 3.483E-06 | 1683 |
| 148.8 | 690 | 5.191E-07 | 2.180E-06 | 1684 |
| 149.7 | 585 | 4.401E-07 | 1.849E-06 | 1685 |
| 150.7 | 388 | 2.921E-07 | 1.227E-06 | 1686 |
| 151.6 | 395 | 2.973E-07 | 1.249E-06 | 1687 |
| 152.6 | 442 | 3.327E-07 | 1.397E-06 | 1688 |
| 153.5 | 411 | 3.095E-07 | 1.300E-06 | 1688 |
| 154.5 | 499 | 3.757E-07 | 1.578E-06 | 1689 |
| B 155.4 | 358 | 2.694E-07 | 1.132E-06 | 1690 |

CROSSWIND INTEGRATED= 5.034E-04 SEC/SQ.M 2.114E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 127.8 | 0 | 2.272E-09 | 9.541E-09 | 1659 |
| 128.8 | 0 | 4.543E-09 | 1.908E-08 | 1660 |
| 129.7 | 4 | 4.543E-08 | 1.908E-07 | 1662 |
| 130.6 | 15 | 1.590E-07 | 6.678E-07 | 1663 |
| 131.5 | 15 | 1.567E-07 | 6.583E-07 | 1664 |
| 132.5 | 18 | 1.840E-07 | 7.728E-07 | 1665 |
| 133.5 | 37 | 3.748E-07 | 1.574E-06 | 1667 |
| 134.4 | 53 | 5.315E-07 | 2.232E-06 | 1668 |
| 135.4 | 73 | 7.383E-07 | 3.101E-06 | 1669 |
| 136.4 | 76 | 7.837E-07 | 3.291E-06 | 1670 |
| 137.3 | 82 | 8.291E-07 | 3.482E-06 | 1672 |
| 138.3 | 82 | 8.291E-07 | 3.482E-06 | 1673 |
| 139.3 | 85 | 8.518E-07 | 3.578E-06 | 1674 |
| 140.2 | 82 | 8.291E-07 | 3.482E-06 | 1675 |
| 141.2 | 91 | 9.200E-07 | 3.864E-06 | 1676 |
| 142.2 | 80 | 8.064E-07 | 3.387E-06 | 1677 |
| 143.1 | 89 | 8.973E-07 | 3.769E-06 | 1678 |
| 144.1 | 105 | 1.056E-06 | 4.436E-06 | 1679 |
| 145.1 | 91 | 9.200E-07 | 3.864E-06 | 1680 |
| 146.0 | 82 | 8.291E-07 | 3.482E-06 | 1681 |
| 146.9 | 105 | 1.056E-06 | 4.436E-06 | 1682 |
| 147.9 | 80 | 8.064E-07 | 3.387E-06 | 1683 |
| 148.8 | 55 | 5.565E-07 | 2.337E-06 | 1684 |
| 149.7 | 42 | 4.225E-07 | 1.775E-06 | 1685 |
| 150.7 | 27 | 2.794E-07 | 1.173E-06 | 1686 |
| 151.6 | 23 | 2.385E-07 | 1.002E-06 | 1687 |
| 152.6 | 29 | 2.998E-07 | 1.259E-06 | 1688 |
| 153.5 | 29 | 2.930E-07 | 1.231E-06 | 1688 |
| 154.5 | 29 | 2.998E-07 | 1.259E-06 | 1689 |
| B 155.4 | 26 | 2.658E-07 | 1.116E-06 | 1690 |

CROSSWIND INTEGRATED= 4.555E-04 SEC/SQ.M 1.913E-03 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 126.0 | 0 | 0. | 0. | 2200 |
| 128.0 | 10 | 8.053E-09 | 3.382E-08 | 2200 |
| 130.0 | 28 | 2.124E-08 | 8.939E-08 | 2200 |
| 132.0 | 64 | 4.861E-08 | 2.041E-07 | 2200 |
| 134.0 | 91 | 6.845E-08 | 2.875E-07 | 2200 |
| 136.0 | 310 | 2.333E-07 | 9.797E-07 | 2200 |
| 138.0 | 450 | 3.385E-07 | 1.422E-06 | 2200 |
| 140.0 | 486 | 3.656E-07 | 1.535E-06 | 2200 |
| 142.0 | 423 | 3.184E-07 | 1.337E-06 | 2200 |
| 144.0 | 360 | 2.709E-07 | 1.138E-06 | 2200 |
| 146.0 | 407 | 3.060E-07 | 1.285E-06 | 2200 |
| 148.0 | 248 | 1.867E-07 | 7.840E-07 | 2200 |
| 150.0 | 159 | 1.199E-07 | 5.037E-07 | 2200 |
| 152.0 | 110 | 8.312E-08 | 3.491E-07 | 2200 |
| 154.0 | 169 | 1.274E-07 | 5.351E-07 | 2200 |
| B 156.0 | 219 | 1.648E-07 | 6.922E-07 | 2200 |

CROSSWIND INTEGRATED= 2.043E-04 SEC/SQ.M 8.583E-04 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
2200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 130.0 | 1 | 1.438E-08 | 6.040E-08 | 2200 |
| 132.0 | 3 | 3.185E-08 | 1.338E-07 | 2200 |
| 134.0 | 15 | 1.541E-07 | 6.472E-07 | 2200 |
| 136.0 | 29 | 2.928E-07 | 1.230E-06 | 2200 |
| 138.0 | 38 | 3.852E-07 | 1.618E-06 | 2200 |
| 140.0 | 55 | 5.599E-07 | 2.351E-06 | 2200 |
| 142.0 | 62 | 6.215E-07 | 2.610E-06 | 2200 |
| 144.0 | 57 | 5.701E-07 | 2.395E-06 | 2200 |
| 146.0 | 43 | 4.366E-07 | 1.834E-06 | 2200 |
| 148.0 | 36 | 3.647E-07 | 1.532E-06 | 2200 |
| 150.0 | 24 | 2.414E-07 | 1.014E-06 | 2200 |
| 152.0 | 14 | 1.418E-07 | 5.954E-07 | 2200 |
| 154.0 | 16 | 1.695E-07 | 7.119E-07 | 2200 |
| B 156.0 | 13 | 1.356E-07 | 5.695E-07 | 2200 |

CROSSWIND INTEGRATED= 3.163E-04 SEC/SQ.M 1.329E-03 1/M



V3 1202895

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 129.3 | 0 | 0. | 0. | 3262 |
| 130.3 | 37 | 2.790E-08 | 1.172E-07 | 3263 |
| 131.2 | 76 | 5.752E-08 | 2.416E-07 | 3264 |
| 132.2 | 22 | 1.697E-08 | 7.127E-08 | 3266 |
| 133.2 | 47 | 3.536E-08 | 1.486E-07 | 3267 |
| 134.2 | 74 | 5.608E-08 | 2.356E-07 | 3268 |
| 135.2 | 66 | 5.033E-08 | 2.114E-07 | 3270 |
| 136.2 | 118 | 8.906E-08 | 3.745E-07 | 3271 |
| 137.1 | 179 | 1.352E-07 | 5.677E-07 | 3272 |
| 138.1 | 216 | 1.631E-07 | 6.849E-07 | 3273 |
| 139.1 | 248 | 1.869E-07 | 7.852E-07 | 3274 |
| 140.1 | 216 | 1.631E-07 | 6.849E-07 | 3276 |
| 141.1 | 212 | 1.599E-07 | 6.716E-07 | 3277 |
| 142.0 | 194 | 1.461E-07 | 6.136E-07 | 3278 |
| 143.0 | 286 | 2.154E-07 | 9.048E-07 | 3279 |
| 144.0 | 241 | 1.815E-07 | 7.622E-07 | 3280 |
| 145.0 | 145 | 1.093E-07 | 4.590E-07 | 3281 |
| 146.0 | 220 | 1.657E-07 | 6.956E-07 | 3282 |
| 146.9 | 196 | 1.478E-07 | 6.209E-07 | 3283 |
| 147.9 | 199 | 1.498E-07 | 6.293E-07 | 3284 |
| 148.9 | 202 | 1.521E-07 | 6.390E-07 | 3285 |
| 149.9 | 182 | 1.375E-07 | 5.774E-07 | 3286 |
| 150.9 | 113 | 8.571E-08 | 3.600E-07 | 3287 |
| 151.8 | 78 | 5.925E-08 | 2.488E-07 | 3287 |
| 152.8 | 25 | 1.927E-08 | 8.093E-08 | 3288 |
| E 153.8 | 7 | 5.752E-09 | 2.416E-08 | 3289 |
| 154.8 | 3 | 2.588E-09 | 1.087E-08 | 3290 |
| ! E 155.7 | 2 | 2.013E-09 | 8.456E-09 | 3290 |
| 156.7 | 2 | 1.726E-09 | 7.248E-09 | 3291 |

CROSSWIND INTEGRATED= 1.527E-04 SEC/SQ.M 6.414E-04 1/M

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 131.2 | 1 | 1.849E-08 | 7.766E-08 | 3264 |
| 132.2 | 1 | 1.130E-08 | 4.746E-08 | 3266 |
| 133.2 | 2 | 2.260E-08 | 9.492E-08 | 3267 |
| 134.2 | 5 | 5.034E-08 | 2.114E-07 | 3268 |
| 135.2 | 6 | 6.369E-08 | 2.675E-07 | 3270 |
| 136.2 | 6 | 6.677E-08 | 2.805E-07 | 3271 |
| 137.1 | 11 | 1.109E-07 | 4.660E-07 | 3272 |
| 138.1 | 13 | 1.356E-07 | 5.695E-07 | 3273 |
| 139.1 | 14 | 1.418E-07 | 5.954E-07 | 3274 |
| 140.1 | 16 | 1.695E-07 | 7.119E-07 | 3276 |
| 141.1 | 16 | 1.664E-07 | 6.990E-07 | 3277 |
| 142.0 | 17 | 1.757E-07 | 7.376E-07 | 3278 |
| 143.0 | 21 | 2.188E-07 | 9.190E-07 | 3279 |
| 144.0 | 21 | 2.157E-07 | 9.061E-07 | 3280 |
| 145.0 | 18 | 1.449E-07 | 7.766E-07 | 3281 |
| 146.0 | 19 | 1.911E-07 | 8.025E-07 | 3282 |
| 146.9 | 17 | 1.767E-07 | 7.507E-07 | 3283 |
| 147.9 | 13 | 1.387E-07 | 5.825E-07 | 3284 |
| 148.9 | 11 | 1.140E-07 | 4.789E-07 | 3285 |
| 149.9 | 9 | 9.554E-08 | 4.013E-07 | 3286 |
| 150.9 | 6 | 6.164E-08 | 2.589E-07 | 3287 |
| 151.8 | 3 | 3.904E-08 | 1.640E-07 | 3287 |
| 152.8 | 1 | 1.849E-08 | 7.766E-08 | 3288 |

CROSSWIND INTEGRATED= 1.453E-04 SEC/SQ.M 6.103E-04 1/M

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 110.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 1301 | 8.284E-07 | 3.479E-06 | 200 |
| 118.0 | .8 | 839 | 6.309E-07 | 2.650E-06 | 200 |
| 118.0 | 1.5 | 1454 | 1.094E-06 | 4.593E-06 | 200 |
| 118.0 | 2.5 | 1475 | 1.110E-06 | 4.660E-06 | 200 |
| 118.0 | 4.0 | 1069 | 8.041E-07 | 3.377E-06 | 200 |
| 118.0 | 5.5 | 1061 | 7.985E-07 | 3.354E-06 | 200 |
| 118.0 | 7.0 | 3080 | 2.316E-06 | 9.723E-06 | 200 |
| 118.0 | 8.5 | 3033 | 2.281E-06 | 9.578E-06 | 200 |
| 118.0 | 10.0 | 3870 | 2.910E-06 | 1.222E-05 | 200 |
| 118.0 | 13.0 | 6845 | 5.147E-06 | 2.162E-05 | 200 |
| 118.0 | 16.0 | 7554 | 5.680E-06 | 2.386E-05 | 200 |
| 118.0 | 19.0 | 10654 | 8.011E-06 | 3.365E-05 | 200 |
| 118.0 | 22.0 | 10520 | 7.910E-06 | 3.322E-05 | 200 |
| 118.0 | 25.0 | 6470 | 4.865E-06 | 2.043E-05 | 200 |
| 118.0 | 28.0 | 5828 | 4.382E-06 | 1.841E-05 | 200 |
| 118.0 | 31.0 | 5010 | 3.767E-06 | 1.582E-05 | 200 |
| 118.0 | 32.8 | 5175 | 3.891E-06 | 1.634E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 126.0 | .4 | 1610 | 1.211E-06 | 5.087E-06 | 200 |
| 126.0 | .8 | 2895 | 2.177E-06 | 9.144E-06 | 200 |
| 126.0 | 1.5 | 8527 | 6.412E-06 | 2.693E-05 | 200 |
| 126.0 | 2.5 | 11092 | 8.340E-06 | 3.503E-05 | 200 |
| 126.0 | 4.0 | 13525 | 1.002E-05 | 4.208E-05 | 200 |
| 126.0 | 5.5 | 12893 | 9.694E-06 | 4.072E-05 | 200 |
| 126.0 | 7.0 | 14942 | 1.123E-05 | 4.719E-05 | 200 |
| 126.0 | 8.5 | 18823 | 1.415E-05 | 5.944E-05 | 200 |
| 126.0 | 10.0 | 11314 | 8.507E-06 | 3.573E-05 | 200 |
| S 126.0 | 13.0 | 4662 | 3.506E-06 | 1.472E-05 | 200 |
| 126.0 | 16.0 | 10750 | 8.085E-06 | 3.395E-05 | 200 |
| 126.0 | 19.0 | 9853 | 7.409E-06 | 3.112E-05 | 200 |
| 126.0 | 22.0 | 7920 | 5.955E-06 | 2.501E-05 | 200 |
| 126.0 | 25.0 | 14258 | 1.072E-05 | 4.503E-05 | 200 |
| 126.0 | 28.0 | 12754 | 9.590E-06 | 4.026E-05 | 200 |
| 126.0 | 31.0 | 13703 | 1.030E-05 | 4.328E-05 | 200 |
| 126.0 | 32.8 | 15573 | 1.171E-05 | 4.918E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 13626 | 1.025E-05 | 4.303E-05 | 200 |
| 134.0 | .8 | 15148 | 1.139E-05 | 4.784E-05 | 200 |
| 134.0 | 1.5 | 23407 | 1.760E-05 | 7.392E-05 | 200 |
| 134.0 | 2.5 | 21341 | 1.605E-05 | 6.740E-05 | 200 |
| 134.0 | 4.0 | 28909 | 2.174E-05 | 9.129E-05 | 200 |
| 134.0 | 5.5 | 33390 | 2.511E-05 | 1.054E-04 | 200 |
| 134.0 | 7.0 | 49625 | 3.716E-05 | 1.561E-04 | 200 |
| 134.0 | 8.5 | 60576 | 4.555E-05 | 1.913E-04 | 200 |
| 134.0 | 10.0 | 58641 | 4.394E-05 | 1.846E-04 | 200 |
| 134.0 | 13.0 | 70383 | 5.292E-05 | 2.223E-04 | 200 |
| 134.0 | 16.0 | 63839 | 4.800E-05 | 2.016E-04 | 200 |
| 134.0 | 19.0 | 74596 | 5.609E-05 | 2.356E-04 | 200 |
| 134.0 | 22.0 | 79887 | 6.007E-05 | 2.523E-04 | 200 |
| S 134.0 | 25.0 | 62190 | 4.676E-05 | 1.964E-04 | 200 |
| 134.0 | 28.0 | 50376 | 3.788E-05 | 1.591E-04 | 200 |
| 134.0 | 31.0 | 43412 | 3.264E-05 | 1.371E-04 | 200 |
| S 134.0 | 32.8 | 28256 | 2.125E-05 | 8.923E-05 | 200 |

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 110.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 53 | 5.306E-07 | 2.228E-06 | 200 |
| 118.0 | .8 | 55 | 5.519E-07 | 2.318E-06 | 200 |
| 118.0 | 1.5 | 153 | 1.531E-06 | 6.431E-06 | 200 |
| 118.0 | 2.5 | 32 | 3.276E-07 | 1.376E-06 | 200 |
| 118.0 | 4.0 | 16 | 1.674E-07 | 7.029E-07 | 200 |
| 118.0 | 5.5 | 25 | 2.528E-07 | 1.062E-06 | 200 |
| 118.0 | 7.0 | 43 | 4.344E-07 | 1.825E-06 | 200 |
| 118.0 | 8.5 | 34 | 3.490E-07 | 1.466E-06 | 200 |
| 118.0 | 10.0 | 92 | 9.258E-07 | 3.888E-06 | 200 |
| 118.0 | 13.0 | 142 | 1.424E-06 | 5.982E-06 | 200 |
| 118.0 | 16.0 | 227 | 2.279E-06 | 9.571E-06 | 200 |
| 118.0 | 19.0 | 338 | 3.343E-06 | 1.421E-05 | 200 |
| 118.0 | 22.0 | 316 | 3.149E-06 | 1.331E-05 | 200 |
| 118.0 | 25.0 | 210 | 2.101E-06 | 8.824E-06 | 200 |
| 118.0 | 28.0 | 170 | 1.702E-06 | 7.279E-06 | 200 |
| 118.0 | 31.0 | 156 | 1.567E-06 | 6.580E-06 | 200 |
| 118.0 | 32.8 | 174 | 1.745E-06 | 7.328E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 126.0 | .4 | 96 | 9.614E-07 | 4.038E-06 | 200 |
| 126.0 | .8 | 349 | 3.490E-06 | 1.466E-05 | 200 |
| 126.0 | 1.5 | 477 | 4.771E-06 | 2.004E-05 | 200 |
| 126.0 | 2.5 | 252 | 2.528E-06 | 1.062E-05 | 200 |
| 126.0 | 4.0 | 252 | 2.528E-06 | 1.062E-05 | 200 |
| Z 126.0 | 5.5 | 361 | 3.810E-06 | 1.600E-05 | 200 |
| 126.0 | 7.0 | 348 | 3.490E-06 | 1.466E-05 | 200 |
| E 126.0 | 8.5 | 316 | 3.169E-06 | 1.331E-05 | 200 |
| 126.0 | 10.0 | 274 | 2.742E-06 | 1.152E-05 | 200 |
| S 126.0 | 13.0 | 48 | 4.878E-07 | 2.049E-06 | 200 |
| 126.0 | 16.0 | 227 | 2.279E-06 | 9.571E-06 | 200 |
| 126.0 | 19.0 | 220 | 2.208E-06 | 9.272E-06 | 200 |
| 126.0 | 22.0 | 192 | 1.923E-06 | 8.076E-06 | 200 |
| 126.0 | 25.0 | 455 | 4.556E-06 | 1.914E-05 | 200 |
| 126.0 | 28.0 | 346 | 3.490E-06 | 1.466E-05 | 200 |
| 126.0 | 31.0 | 370 | 3.703E-06 | 1.555E-05 | 200 |
| 126.0 | 32.8 | 445 | 4.451E-06 | 1.869E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 306 | 3.062E-06 | 1.286E-05 | 200 |
| 134.0 | .8 | 391 | 3.917E-06 | 1.645E-05 | 200 |
| 134.0 | 1.5 | 658 | 6.588E-06 | 2.767E-05 | 200 |
| 134.0 | 2.5 | 413 | 4.131E-06 | 1.735E-05 | 200 |
| 134.0 | 4.0 | 616 | 6.160E-06 | 2.587E-05 | 200 |
| 134.0 | 5.5 | 1064 | 1.065E-05 | 4.472E-05 | 200 |
| 134.0 | 7.0 | 1171 | 1.172E-05 | 4.920E-05 | 200 |
| 134.0 | 8.5 | 1527 | 1.528E-05 | 6.416E-05 | 200 |
| 134.0 | 10.0 | 1563 | 1.563E-05 | 6.565E-05 | 200 |
| Z 134.0 | 13.0 | 1634 | 1.634E-05 | 6.865E-05 | 200 |
| 134.0 | 16.0 | 1954 | 1.955E-05 | 8.211E-05 | 200 |
| 134.0 | 19.0 | 1954 | 1.955E-05 | 8.211E-05 | 200 |
| 134.0 | 22.0 | 2168 | 2.169E-05 | 9.108E-05 | 200 |
| S 134.0 | 25.0 | 1171 | 1.172E-05 | 4.920E-05 | 200 |
| 134.0 | 28.0 | 1420 | 1.421E-05 | 5.967E-05 | 200 |
| 134.0 | 31.0 | 1135 | 1.136E-05 | 4.771E-05 | 200 |
| S 134.0 | 32.8 | 669 | 6.694E-06 | 2.812E-05 | 200 |

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 620 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 112.6 | .3 | 0 | 0. | 0. | 633 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 120.2 | .3 | 0 | 0. | 0. | 645 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 422 | 3.179E-07 | 1.335E-06 | 657 |
| 127.7 | .5 | 416 | 3.134E-07 | 1.316E-06 | 657 |
| 127.7 | 1.1 | 272 | 2.05[illegible]E-07 | 8.616E-07 | 657 |
| 127.7 | 1.5 | 396 | 2.983E-07 | 1.252E-06 | 657 |
| 127.7 | 2.1 | 344 | 2.588E-07 | 1.087E-06 | 657 |
| 127.7 | 4.2 | 382 | 2.875E-07 | 1.207E-06 | 657 |
| 127.7 | 6.3 | 389 | 2.927E-07 | 1.229E-06 | 657 |
| 127.7 | 8.4 | 270 | 2.032E-07 | 8.536E-07 | 657 |
| 127.7 | 10.5 | 316 | 2.379E-07 | 9.994E-07 | 657 |
| 127.7 | 12.6 | 349 | 2.625E-07 | 1.102E-06 | 657 |
| 127.7 | 14.7 | 359 | 2.705E-07 | 1.136E-06 | 657 |
| 127.7 | 16.8 | 457 | 3.438E-07 | 1.444E-06 | 657 |
| 127.7 | 21.0 | 411 | 3.092E-07 | 1.298E-06 | 657 |
| 127.7 | 25.2 | 431 | 3.242E-07 | 1.361E-06 | 657 |
| 127.7 | 29.4 | 426 | 3.206E-07 | 1.346E-06 | 657 |
| 127.7 | 33.6 | 623 | 4.691E-07 | 1.970E-06 | 657 |
| 127.7 | 37.8 | 487 | 3.666E-07 | 1.540E-06 | 657 |
| S 127.7 | 42.0 | 857 | 6.444E-07 | 2.707E-06 | 657 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 5876 | 4.419E-06 | 1.856E-05 | 667 |
| 135.0 | .5 | 3826 | 1.373E-06 | 5.767E-06 | 667 |
| 135.0 | 1.1 | 7163 | 5.386E-06 | 2.262E-05 | 667 |
| 135.0 | 1.5 | 3859 | 2.902E-06 | 1.219E-05 | 667 |
| 135.0 | 2.1 | 6868 | 5.164E-06 | 2.169E-05 | 667 |
| 135.0 | 4.2 | 5844 | 4.394E-06 | 1.846E-05 | 667 |
| 135.0 | 6.3 | 6615 | 4.974E-06 | 2.089E-05 | 667 |
| 135.0 | 8.4 | 4831 | 3.633E-06 | 1.526E-05 | 667 |
| 135.0 | 10.5 | 5370 | 4.038E-06 | 1.696E-05 | 667 |
| 135.0 | 12.6 | 5184 | 3.898E-06 | 1.637E-05 | 667 |
| 135.0 | 14.7 | 5364 | 4.033E-06 | 1.694E-05 | 667 |
| 135.0 | 16.8 | 5793 | 4.356E-06 | 1.829E-05 | 667 |
| 135.0 | 21.0 | 5474 | 4.116E-06 | 1.729E-05 | 667 |
| 135.0 | 25.2 | 5291 | 3.978E-06 | 1.671E-05 | 667 |
| 135.0 | 29.4 | 5365 | 4.019E-06 | 1.688E-05 | 667 |
| 135.0 | 33.6 | 4318 | 3.247E-06 | 1.364E-05 | 667 |
| S 135.0 | 37.8 | 2403 | 1.807E-06 | 7.590E-06 | 667 |
| 135.0 | 42.0 | 4313 | 3.243E-06 | 1.362E-05 | 667 |

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 620 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 112.6 | .3 | 0 | 0. | 0. | 633 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 120.2 | .3 | 0 | 0. | 0. | 645 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 20 | 2.036E-07 | 8.535E-07 | 657 |
| 127.7 | .5 | 16 | 1.653E-07 | 6.944E-07 | 657 |
| 127.7 | 1.1 | 16 | 1.619E-07 | 6.799E-07 | 657 |
| 127.7 | 1.5 | 24 | 2.480E-07 | 1.042E-06 | 657 |
| 127.7 | 2.1 | 15 | 1.584E-07 | 6.655E-07 | 657 |
| 127.7 | 4.2 | 11 | 1.102E-07 | 4.629E-07 | 657 |
| 127.7 | 6.3 | 11 | 1.137E-07 | 4.774E-07 | 657 |
| 127.7 | 8.4 | 9 | 9.644E-08 | 4.051E-07 | 657 |
| 127.7 | 10.5 | 9 | 9.644E-08 | 4.051E-07 | 657 |
| 127.7 | 12.6 | 17 | 1.722E-07 | 7.233E-07 | 657 |
| 127.7 | 14.7 | 9 | 9.3[illegible]0E-08 | 3.926E-07 | 657 |
| 127.7 | 16.8 | 12 | 1.274E-07 | 5.353E-07 | 657 |
| 127.7 | 21.0 | 11 | 1.171E-07 | 4.919E-07 | 657 |
| 127.7 | 25.2 | 14 | 1.447E-07 | 6.076E-07 | 657 |
| 127.7 | 29.4 | 17 | 1.757E-07 | 7.378E-07 | 657 |
| 127.7 | 33.6 | 0 | 0.611E-08 | 2.617E-07 | 657 |
| 127.7 | 37.8 | 15 | 1.550E-07 | 6.510E-07 | 657 |
| S 127.7 | 42.0 | 12 | 1.240E-07 | 5.208E-07 | 657 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 241 | 2.411E-06 | 1.013E-05 | 667 |
| 135.0 | .5 | 46 | 4.616E-07 | 1.934E-06 | 667 |
| 135.0 | 1.1 | 296 | 2.962E-06 | 1.244E-05 | 667 |
| 135.0 | 1.5 | 161 | 1.619E-06 | 6.799E-06 | 667 |
| 135.0 | 2.1 | 306 | 3.066E-06 | 1.288E-05 | 667 |
| 135.0 | 4.2 | 244 | 2.446E-06 | 1.027E-05 | 667 |
| 135.0 | 6.3 | 220 | 2.204E-06 | 9.259E-06 | 667 |
| 135.0 | 8.4 | 247 | 2.480E-06 | 1.042E-05 | 667 |
| 135.0 | 10.5 | 220 | 2.204E-06 | 9.259E-06 | 667 |
| 135.0 | 12.6 | 210 | 2.101E-06 | 8.825E-06 | 667 |
| 135.0 | 14.7 | 216 | 2.170E-06 | 9.114E-06 | 667 |
| 135.0 | 16.8 | 206 | 2.067E-06 | 8.680E-06 | 667 |
| 135.0 | 21.0 | 210 | 2.101E-06 | 8.825E-06 | 667 |
| 135.0 | 25.2 | 247 | 2.480E-06 | 1.042E-05 | 667 |
| 135.0 | 29.4 | 152 | 1.529E-06 | 6.101E-06 | 667 |
| 135.0 | 33.6 | 165 | 1.653E-06 | 6.944E-06 | 667 |
| S 135.0 | 37.8 | 103 | 1.033E-06 | 4.341E-06 | 667 |
| 135.0 | 42.0 | 185 | 1.860E-06 | 7.812E-06 | 667 |

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 109.5 | .2 | 0 | 0. | 0. | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 117.3 | .2 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 125.0 | .2 | 0 | 0. | 0. | 1655 |
| E 125.0 | .4 | 0 | 0. | 0. | 1655 |
| E 125.0 | .8 | 0 | 0. | 0. | 1655 |
| E 125.0 | 1.5 | 0 | 0. | 0. | 1655 |
| E 125.0 | 1.6 | 0 | 0. | 0. | 1655 |
| E 125.0 | 3.1 | 0 | 0. | 0. | 1655 |
| E 125.0 | 6.2 | 0 | 0. | 0. | 1655 |
| E 125.0 | 9.3 | 0 | 0. | 0. | 1655 |
| E 125.0 | 12.4 | 0 | 0. | 0. | 1655 |
| E 125.0 | 15.5 | 0 | 0. | 0. | 1655 |
| E 125.0 | 18.6 | 0 | 0. | 0. | 1655 |
| E 125.0 | 21.7 | 0 | 0. | 0. | 1655 |
| E 125.0 | 24.8 | 0 | 0. | 0. | 1655 |
| E 125.0 | 31.0 | 0 | 0. | 0. | 1655 |
| 125.0 | 37.2 | 39 | 2.979E-08 | 1.251E-07 | 1655 |
| 125.0 | 43.4 | 37 | 2.803E-08 | 1.177E-07 | 1655 |
| 125.0 | 49.6 | 33 | 2.497E-08 | 1.049E-07 | 1655 |
| 125.0 | 55.8 | 38 | 2.891E-08 | 1.214E-07 | 1655 |
| 125.0 | 62.0 | 34 | 2.628E-08 | 1.104E-07 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 270 | 2.037E-07 | 8.554E-07 | 1665 |
| 132.5 | .4 | 329 | 2.477E-07 | 1.041E-06 | 1665 |
| 132.5 | .8 | 199 | 1.501E-07 | 6.304E-07 | 1665 |
| 132.5 | 1.5 | 249 | 1.876E-07 | 7.877E-07 | 1665 |
| 132.5 | 1.6 | 257 | 1.934E-07 | 8.121E-07 | 1665 |
| 132.5 | 3.1 | 288 | 2.172E-07 | 9.122E-07 | 1665 |
| 132.5 | 6.2 | 290 | 2.181E-07 | 9.163E-07 | 1665 |
| 132.5 | 9.3 | 284 | 2.137E-07 | 8.977E-07 | 1665 |
| 132.5 | 12.4 | 227 | 1.714E-07 | 7.199E-07 | 1665 |
| 132.5 | 15.5 | 522 | 3.931E-07 | 1.651E-06 | 1665 |
| 132.5 | 18.6 | 364 | 2.738E-07 | 1.150E-06 | 1665 |
| 132.5 | 21.7 | 541 | 4.072E-07 | 1.710E-06 | 1665 |
| 132.5 | 24.8 | 511 | 3.846E-07 | 1.615E-06 | 1665 |
| 132.5 | 31.0 | 435 | 3.272E-07 | 1.374E-06 | 1665 |
| 132.5 | 37.2 | 346 | 2.602E-07 | 1.093E-06 | 1665 |
| 132.5 | 43.4 | 398 | 2.996E-07 | 1.258E-06 | 1665 |
| 132.5 | 49.6 | 364 | 2.738E-07 | 1.150E-06 | 1665 |
| 132.5 | 55.8 | 145 | 1.095E-07 | 4.599E-07 | 1665 |
| 132.5 | 62.0 | 235 | 1.770E-07 | 7.432E-07 | 1665 |

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 109.5 | .2 | 0 | 0. | 0. | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 117.3 | .2 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 125.0 | 31.0 | 1 | 1.136E-08 | 4.770E-08 | 1655 |
| 125.0 | 37.2 | 0 | 0. | 0. | 1655 |
| 125.0 | 43.4 | 0 | 0. | 0. | 1655 |
| 125.0 | 49.6 | 0 | 0. | 0. | 1655 |
| 125.0 | 55.8 | 0 | 0. | 0. | 1655 |
| 125.0 | 62.0 | 0 | 6.815E-09 | 2.862E-08 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 9 | 9.995E-08 | 4.196E-07 | 1665 |
| 132.5 | .4 | 10 | 1.090E-07 | 4.579E-07 | 1665 |
| 132.5 | .8 | 10 | 1.066E-07 | 4.464E-07 | 1665 |
| 132.5 | 1.5 | 18 | 1.840E-07 | 7.728E-07 | 1665 |
| 132.5 | 1.6 | 12 | 1.276E-07 | 5.363E-07 | 1665 |
| 132.5 | 3.1 | 10 | 1.090E-07 | 4.579E-07 | 1665 |
| 132.5 | 6.2 | 13 | 1.318E-07 | 5.535E-07 | 1665 |
| 132.5 | 9.3 | 16 | 1.653E-07 | 6.774E-07 | 1665 |
| 132.5 | 12.4 | 10 | 1.022E-07 | 4.293E-07 | 1665 |
| 132.5 | 15.5 | 16 | 1.658E-07 | 6.965E-07 | 1665 |
| 132.5 | 18.6 | 15 | 1.590E-07 | 6.678E-07 | 1665 |
| 132.5 | 21.7 | 19 | 1.904E-07 | 8.014E-07 | 1665 |
| 132.5 | 24.8 | 17 | 1.704E-07 | 7.155E-07 | 1665 |
| 2 132.5 | 31.0 | 21 | 2.181E-07 | 9.159E-07 | 1665 |
| 132.5 | 37.2 | 13 | 1.363E-07 | 5.724E-07 | 1665 |
| 132.5 | 43.4 | 12 | 1.295E-07 | 5.438E-07 | 1665 |
| 132.5 | 49.6 | 11 | 1.159E-07 | 4.866E-07 | 1665 |
| 132.5 | 55.8 | 4 | 4.089E-08 | 1.717E-07 | 1665 |
| 132.5 | 62.0 | 9 | 9.089E-08 | 3.818E-07 | 1665 |

1202899



V3

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 0 | 0. | 0. | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 123.4 | .2 | 0 | 0. | 0. | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 131.2 | .2 | 0 | 0. | 0. | 3264 |
| 131.2 | .4 | 42 | 3.171E-08 | 1.332E-07 | 3264 |
| 131.2 | .8 | 21 | 1.631E-08 | 6.765E-08 | 3264 |
| 131.2 | 1.5 | 76 | 5.752E-08 | 2.416E-07 | 3264 |
| 131.2 | 1.6 | 35 | 2.646E-08 | 1.111E-07 | 3264 |
| 131.2 | 3.1 | 37 | 2.828E-08 | 1.188E-07 | 3264 |
| 131.2 | 6.2 | 33 | 2.526E-08 | 1.061E-07 | 3264 |
| 131.2 | 9.3 | 33 | 2.553E-08 | 1.072E-07 | 3264 |
| 131.2 | 12.4 | 39 | 2.994E-08 | 1.257E-07 | 3264 |
| 131.2 | 15.5 | 50 | 2.276E-08 | 9.572E-08 | 3264 |
| 131.2 | 18.6 | 33 | 2.515E-08 | 1.056E-07 | 3264 |
| 131.2 | 21.7 | 35 | 2.688E-08 | 1.129E-07 | 3264 |
| 131.2 | 24.8 | 43 | 3.264E-08 | 1.371E-07 | 3264 |
| 131.2 | 31.0 | 33 | 2.499E-08 | 1.049E-07 | 3264 |
| 131.2 | 37.2 | 42 | 3.162E-08 | 1.328E-07 | 3264 |
| 131.2 | 43.4 | 59 | 4.462E-08 | 1.874E-07 | 3264 |
| 131.2 | 49.6 | 74 | 5.635E-08 | 2.367E-07 | 3264 |
| 131.2 | 55.8 | 46 | 3.493E-08 | 1.467E-07 | 3264 |
| 131.2 | 62.0 | 47 | 3.595E-08 | 1.510E-07 | 3264 |

TOWER DATA FOLLOW....

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 0 | 0. | 0. | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 123.4 | .2 | 0 | 0. | 0. | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 131.2 | .2 | 0 | 0. | 0. | 3264 |
| 131.2 | .4 | 1 | 1.335E-06 | 5.609E-08 | 3264 |
| 131.2 | .8 | 0 | 9.246E-09 | 3.883E-08 | 3264 |
| 131.2 | 1.5 | 1 | 1.849E-08 | 7.766E-08 | 3264 |
| 131.2 | 1.6 | 0 | 6.164E-09 | 2.589E-08 | 3264 |
| 131.2 | 3.1 | 0 | 2.055E-09 | 8.629E-09 | 3264 |
| 131.2 | 6.2 | 0 | 3.082E-09 | 1.294E-08 | 3264 |
| 131.2 | 9.3 | 0 | 5.136E-09 | 2.157E-08 | 3264 |
| 131.2 | 12.4 | 1 | 1.438E-08 | 6.040E-08 | 3264 |
| 131.2 | 15.5 | 0 | 4.109E-09 | 1.726E-08 | 3264 |
| 131.2 | 18.6 | 0 | 5.136E-09 | 2.157E-08 | 3264 |
| 131.2 | 21.7 | 0 | 5.136E-09 | 2.157E-08 | 3264 |
| 131.2 | 24.8 | 0 | 5.136E-09 | 2.157E-08 | 3264 |
| 131.2 | 31.0 | 0 | 6.164E-09 | 2.589E-08 | 3264 |
| 131.2 | 37.2 | 0 | 8.218E-09 | 3.452E-08 | 3264 |
| 131.2 | 43.4 | 0 | 7.191E-09 | 3.020E-08 | 3264 |
| 131.2 | 49.6 | 0 | 7.191E-09 | 3.020E-08 | 3264 |
| 131.2 | 55.8 | 1 | 1.438E-08 | 6.040E-08 | 3264 |
| 131.2 | 62.0 | 0 | 5.136E-09 | 2.157E-08 | 3264 |

GROUND LEVEL AND TOWER SAMPLING 200M TO 1600M - WITH ADDITIONAL TWO TOWERS SAMPLING AT 3200M.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. TOWER SAMPLES TRUNCATED AT TOP. ABOUT 9 CM SNOW DEPTH ON GROUND DURING EXPERIMENT. THERMALLY STABLE IN LOWEST 6M, BUT NEUTRAL ABOVE.

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 116.0 | 8 | 5.644E-09 | 1.469E-08 | 200 |
| 9 118.0 | 30 | 2.018E-08 | 5.246E-08 | 200 |
| 120.0 | 33 | 2.260E-08 | 5.875E-08 | 200 |
| 122.0 | 72 | 4.842E-08 | 1.259E-07 | 200 |
| 124.0 | 338 | 2.260E-07 | 5.875E-07 | 200 |
| 126.0 | 323 | 2.155E-07 | 5.603E-07 | 200 |
| 128.0 | 1162 | 7.685E-07 | 2.050E-06 | 200 |
| 130.0 | 10350 | 6.900E-06 | 1.794E-05 | 200 |
| F 132.0 | 2543 | 1.696E-06 | 4.409E-06 | 200 |
| 134.0 | 4498 | 2.999E-06 | 7.798E-06 | 200 |
| P 136.0 | 1907 | 1.272E-06 | 3.307E-06 | 200 |
| P 138.0 | 1068 | 7.126E-07 | 1.853E-06 | 200 |
| P 140.0 | 430 | 2.873E-07 | 7.470E-07 | 200 |
| P 142.0 | 207 | 1.380E-07 | 3.588E-07 | 200 |
| P 144.0 | 0 | 0. | 0. | 200 |
| P 146.0 | 16 | 7.264E-09 | 1.889E-08 | 200 |
| P 148.0 | 56 | 3.793E-08 | 9.862E-08 | 200 |
| 150.0 | 47 | 3.148E-08 | 8.184E-08 | 200 |
| 152.0 | 911 | 6.077E-07 | 1.580E-06 | 200 |
| 154.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.119E-04 SEC/SQ.M 2.907E-04 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 116.0 | 3 | 3.378E-08 | 8.784E-08 | 200 |
| 9 118.0 | 73 | 7.365E-07 | 1.915E-06 | 200 |
| 120.0 | 5 | 5.405E-08 | 1.405E-07 | 200 |
| 122.0 | 9 | 9.324E-08 | 2.424E-07 | 200 |
| 124.0 | 22 | 2.270E-07 | 5.903E-07 | 200 |
| 4 126.0 | 73 | 7.365E-07 | 1.915E-06 | 200 |
| 128.0 | 83 | 8.311E-07 | 2.161E-06 | 200 |
| 130.0 | 966 | 9.669E-06 | 2.514E-05 | 200 |
| P 132.0 | 106 | 1.061E-06 | 2.758E-06 | 200 |
| 3 134.0 | 1291 | 1.291E-05 | 3.357E-05 | 200 |
| P 136.0 | 0 | 4.054E-09 | 1.054E-08 | 200 |
| P 138.0 | 2 | 2.027E-08 | 5.270E-08 | 200 |
| P 140.0 | 0 | 0. | 0. | 200 |
| P 142.0 | 0 | 0. | 0. | 200 |
| P 144.0 | 0 | 0. | 0. | 200 |
| P 146.0 | 0 | 0. | 0. | 200 |
| P 148.0 | 0 | 0. | 0. | 200 |
| 150.0 | 216 | 2.169E-06 | 5.639E-06 | 200 |
| 152.0 | 1 | 1.351E-08 | 3.514E-08 | 200 |
| 154.0 | 2 | 2.703E-08 | 7.027E-08 | 200 |

CROSSWIND INTEGRATED= 1.996E-04 SEC/SQ.M 5.189E-04 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 118.3 | 2 | 1.561E-09 | 4.060E-09 | 842 |
| 120.2 | 174 | 1.103E-07 | 3.024E-07 | 845 |
| 122.1 | 517 | 5.449E-07 | 1.417E-06 | 848 |
| 124.0 | 3058 | 2.039E-06 | 5.302E-06 | 851 |
| 125.8 | 12706 | 8.471E-06 | 2.203E-05 | 854 |
| 127.7 | 18048 | 1.203E-05 | 3.128E-05 | 857 |
| 129.5 | 18256 | 1.217E-05 | 3.165E-05 | 859 |
| 131.4 | 14426 | 9.617E-06 | 2.501E-05 | 862 |
| 133.2 | 9021 | 6.014E-06 | 1.564E-05 | 865 |
| 135.0 | 4309 | 2.873E-06 | 7.470E-06 | 867 |
| 136.8 | 13895 | 9.264E-06 | 2.409E-05 | 869 |
| 138.7 | 29108 | 1.941E-05 | 5.045E-05 | 872 |
| 140.6 | 16357 | 1.090E-05 | 2.835E-05 | 874 |
| T 142.4 | 6067 | 4.045E-06 | 1.052E-05 | 876 |
| 144.2 | 11614 | 7.876E-06 | 2.048E-05 | 878 |
| 146.0 | 7826 | 5.217E-06 | 1.357E-05 | 880 |
| 147.8 | 16778 | 1.119E-05 | 2.908E-05 | 882 |
| 149.6 | 10972 | 7.315E-06 | 1.902E-05 | 884 |
| 151.4 | 1607 | 1.072E-06 | 2.787E-06 | 886 |
| 153.2 | 236 | 1.577E-07 | 4.100E-07 | 887 |
| W 155.0 | 2 | 1.561E-09 | 4.060E-09 | 889 |

CROSSWIND INTEGRATED= 3.637E-03 SEC/SQ.M 9.457E-03 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 120.2 | 3 | 3.660E-08 | 9.516E-08 | 845 |
| 122.1 | 74 | 7.425E-07 | 1.930E-06 | 848 |
| 124.0 | 193 | 1.932E-06 | 5.023E-06 | 851 |
| 125.8 | 755 | 7.553E-06 | 1.964E-05 | 854 |
| 127.7 | 1497 | 1.487E-05 | 3.867E-05 | 857 |
| 129.5 | 1683 | 1.683E-05 | 4.377E-05 | 859 |
| 131.4 | 1291 | 1.291E-05 | 3.357E-05 | 862 |
| 133.2 | 689 | 6.899E-06 | 1.794E-05 | 865 |
| 135.0 | 467 | 4.677E-06 | 1.216E-05 | 867 |
| 136.8 | 1134 | 1.134E-05 | 2.949E-05 | 869 |
| 138.7 | 2624 | 2.625E-05 | 6.824E-05 | 872 |
| 140.6 | 1526 | 1.527E-05 | 3.969E-05 | 874 |
| E 142.4 | 1173 | 1.174E-05 | 3.051E-05 | 876 |
| 144.2 | 886 | 8.860E-06 | 2.304E-05 | 878 |
| 146.0 | 546 | 5.461E-06 | 1.420E-05 | 880 |
| 147.8 | 977 | 9.775E-06 | 2.542E-05 | 882 |
| 149.6 | 781 | 7.814E-06 | 2.032E-05 | 884 |
| 151.4 | 212 | 2.128E-06 | 5.533E-06 | 886 |
| 153.2 | 16 | 1.673E-07 | 4.350E-07 | 887 |

CROSSWIND INTEGRATED= 4.614E-03 SEC/SQ.M 1.200E-02 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| E 113.4 | 0 | 0. | 0. | 1637 |
| 114.4 | 21 | 1.453E-08 | 3.779E-08 | 1638 |
| 115.3 | 152 | 1.017E-07 | 2.645E-07 | 1640 |
| 116.3 | 462 | 3.044E-07 | 8.019E-07 | 1641 |
| 117.3 | 477 | 3.136E-07 | 8.285E-07 | 1643 |
| 118.2 | 645 | 4.306E-07 | 1.120E-06 | 1644 |
| 119.2 | 968 | 6.459E-07 | 1.679E-06 | 1646 |
| 120.2 | 905 | 6.034E-07 | 1.569E-06 | 1647 |
| 121.2 | 189 | 1.265E-07 | 3.289E-07 | 1649 |
| 122.1 | 480 | 3.203E-07 | 8.327E-07 | 1650 |
| 123.1 | 819 | 5.463E-07 | 1.420E-06 | 1652 |
| 124.1 | 1513 | 1.009E-06 | 2.624E-06 | 1653 |
| 125.0 | 1911 | 1.275E-06 | 3.314E-06 | 1655 |
| 126.0 | 5395 | 3.597E-06 | 9.353E-06 | 1656 |
| Z 126.9 | 2992 | 1.995E-06 | 5.186E-06 | 1658 |
| 127.8 | 7431 | 4.954E-06 | 1.288E-05 | 1659 |
| 128.8 | 4832 | 3.222E-06 | 8.377E-06 | 1660 |
| 129.7 | 4989 | 3.326E-06 | 8.649E-06 | 1662 |
| 130.6 | 5081 | 3.388E-06 | 8.808E-06 | 1663 |
| 131.5 | 4548 | 3.033E-06 | 7.885E-06 | 1664 |
| 132.5 | 3124 | 2.083E-06 | 5.416E-06 | 1665 |
| 133.5 | 4960 | 3.307E-06 | 8.598E-06 | 1667 |
| 134.4 | 4901 | 3.268E-06 | 8.496E-06 | 1668 |
| 135.4 | 5677 | 3.785E-06 | 9.841E-06 | 1669 |
| 136.4 | 6991 | 4.661E-06 | 1.212E-05 | 1670 |
| 137.3 | 16117 | 1.075E-05 | 2.794E-05 | 1672 |
| 138.3 | 17393 | 1.193E-05 | 3.101E-05 | 1673 |
| 139.3 | 9435 | 6.290E-06 | 1.635E-05 | 1674 |
| 140.2 | 12424 | 8.283E-06 | 2.154E-05 | 1675 |
| 141.2 | 8825 | 5.884E-06 | 1.530E-05 | 1676 |
| 142.2 | 6969 | 5.979E-06 | 1.555E-05 | 1677 |
| 143.1 | 6500 | 4.333E-06 | 1.127E-05 | 1678 |
| 144.1 | 5487 | 3.659E-06 | 9.512E-06 | 1679 |
| 145.1 | 4308 | 2.872E-06 | 7.466E-06 | 1680 |
| 146.0 | 4086 | 2.724E-06 | 7.083E-06 | 1681 |
| 146.9 | 3625 | 2.417E-06 | 6.285E-06 | 1682 |
| 147.9 | 2587 | 1.725E-06 | 4.485E-06 | 1683 |
| 148.8 | 1661 | 1.108E-06 | 2.880E-06 | 1684 |
| 149.7 | 666 | 4.441E-07 | 1.155E-06 | 1685 |
| 150.7 | 342 | 2.282E-07 | 5.934E-07 | 1686 |
| 151.6 | 63 | 4.252E-08 | 1.106E-07 | 1687 |
| E 152.6 | 0 | 0. | 0. | 1688 |

CROSSWIND INTEGRATED= 3.259E-03 SEC/SQ.M 8.343E-03 1/M

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 115.3 | 0 | 0. | 0. | 1640 |
| 116.3 | 3 | 3.621E-08 | 9.414E-08 | 1641 |
| 117.3 | 5 | 5.431E-08 | 1.412E-07 | 1643 |
| 118.2 | 6 | 6.466E-08 | 1.681E-07 | 1644 |
| 119.2 | 12 | 1.293E-07 | 3.362E-07 | 1646 |
| 120.2 | 35 | 3.517E-07 | 9.145E-07 | 1647 |
| 121.2 | 14 | 1.422E-07 | 3.695E-07 | 1649 |
| 122.1 | 92 | 9.207E-07 | 2.394E-06 | 1650 |
| 123.1 | 86 | 8.690E-07 | 2.259E-06 | 1652 |
| 124.1 | 143 | 1.438E-06 | 3.739E-06 | 1653 |
| 125.0 | 185 | 1.852E-06 | 4.814E-06 | 1655 |
| 126.0 | 504 | 5.050E-06 | 1.313E-05 | 1656 |
| Z 126.9 | 289 | 2.895E-06 | 7.527E-06 | 1658 |
| 127.8 | 592 | 5.926E-06 | 1.541E-05 | 1659 |
| 128.8 | 392 | 3.929E-06 | 1.022E-05 | 1660 |
| 129.7 | 436 | 4.360E-06 | 1.134E-05 | 1662 |
| 130.6 | 375 | 3.757E-06 | 9.768E-06 | 1663 |
| 131.5 | 272 | 2.722E-06 | 7.078E-06 | 1664 |
| 132.5 | 323 | 3.243E-06 | 8.423E-06 | 1665 |
| 133.5 | 298 | 2.981E-06 | 7.751E-06 | 1667 |
| 134.4 | 306 | 3.067E-06 | 7.975E-06 | 1668 |
| 135.4 | 358 | 3.584E-06 | 9.320E-06 | 1669 |
| 136.4 | 556 | 5.567E-06 | 1.447E-05 | 1670 |
| 137.3 | 1134 | 1.134E-05 | 2.949E-05 | 1672 |
| 138.3 | 1315 | 1.315E-05 | 3.420E-05 | 1673 |
| 139.3 | 617 | 6.171E-06 | 1.604E-05 | 1674 |
| 140.2 | 927 | 9.274E-06 | 2.411E-05 | 1675 |
| 141.2 | 625 | 6.257E-06 | 1.627E-05 | 1676 |
| 142.2 | 582 | 5.826E-06 | 1.515E-05 | 1677 |
| 143.1 | 453 | 4.533E-06 | 1.179E-05 | 1678 |
| 144.1 | 436 | 4.366E-06 | 1.134E-05 | 1679 |
| 145.1 | 341 | 3.412E-06 | 8.871E-06 | 1680 |
| 146.0 | 384 | 3.843E-06 | 9.992E-06 | 1681 |
| 146.9 | 341 | 3.412E-06 | 8.871E-06 | 1682 |
| 147.9 | 315 | 3.153E-06 | 8.199E-06 | 1683 |
| 148.8 | 208 | 2.084E-06 | 5.420E-06 | 1684 |
| 149.7 | 76 | 7.655E-07 | 1.990E-06 | 1685 |
| 150.7 | 47 | 4.724E-07 | 1.228E-06 | 1686 |
| 151.6 | 13 | 1.345E-07 | 3.497E-07 | 1687 |
| 152.6 | 0 | 0. | 0. | 1688 |

CROSSWIND INTEGRATED= 3.651E-03 SEC/SQ.M 9.494E-03 1/M

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12. 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 110.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 118.0 | .4 | 73 | 4.894E-08 | 1.272E-07 | 200 |
| L 118.0 | .8 | 0 | 0. | 0. | 200 |
| 118.0 | 1.5 | 30 | 2.016E-08 | 5.246E-08 | 200 |
| 118.0 | 2.5 | 81 | 5.407E-08 | 1.406E-07 | 200 |
| 118.0 | 4.0 | 156 | 1.041E-07 | 2.707E-07 | 200 |
| 118.0 | 5.5 | 347 | 2.316E-07 | 6.022E-07 | 200 |
| 118.0 | 7.0 | 466 | 3.107E-07 | 8.079E-07 | 200 |
| 118.0 | 8.5 | 510 | 3.403E-07 | 8.846E-07 | 200 |
| 118.0 | 10.0 | 371 | 2.475E-07 | 6.435E-07 | 200 |
| 118.0 | 13.0 | 769 | 5.126E-07 | 1.333E-06 | 200 |
| 118.0 | 16.0 | 519 | 3.460E-07 | 8.996E-07 | 200 |
| 118.0 | 19.0 | 3105 | 2.070E-06 | 5.382E-06 | 200 |
| 118.0 | 22.0 | 3145 | 2.097E-06 | 5.452E-06 | 200 |
| 118.0 | 25.0 | 4775 | 3.184E-06 | 8.278E-06 | 200 |
| 118.0 | 28.0 | 5801 | 3.866E-06 | 1.006E-05 | 200 |
| 118.0 | 31.0 | 2224 | 1.483E-06 | 3.855E-06 | 200 |
| 118.0 | 32.8 | 3402 | 2.268E-06 | 5.897E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 126.0 | .4 | 43 | 2.869E-08 | 7.459E-08 | 200 |
| L 126.0 | .8 | 170 | 1.134E-07 | 2.962E-07 | 200 |
| 126.0 | 1.5 | 323 | 2.155E-07 | 5.603E-07 | 200 |
| 126.0 | 2.5 | 1376 | 9.176E-07 | 2.386E-06 | 200 |
| 126.0 | 4.0 | 3832 | 2.555E-06 | 6.643E-06 | 200 |
| 126.0 | 5.5 | 4269 | 2.847E-06 | 7.401E-06 | 200 |
| 126.0 | 7.0 | 5746 | 3.831E-06 | 9.961E-06 | 200 |
| 126.0 | 8.5 | 7495 | 4.997E-06 | 1.299E-05 | 200 |
| 126.0 | 10.0 | 11569 | 7.713E-06 | 2.005E-05 | 200 |
| 126.0 | 13.0 | 20388 | 1.359E-05 | 3.534E-05 | 200 |
| 126.0 | 16.0 | 35176 | 2.345E-05 | 6.097E-05 | 200 |
| 126.0 | 19.0 | 59122 | 3.941E-05 | 1.025E-04 | 200 |
| 126.0 | 22.0 | 82749 | 5.517E-05 | 1.434E-04 | 200 |
| 126.0 | 25.0 | 76513 | 5.101E-05 | 1.326E-04 | 200 |
| 126.0 | 28.0 | 72334 | 4.822E-05 | 1.254E-04 | 200 |
| 126.0 | 31.0 | 42580 | 2.839E-05 | 7.381E-05 | 200 |
| S 126.0 | 32.8 | 27324 | 1.822E-05 | 4.736E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 134.0 | .4 | 7403 | 4.936E-06 | 1.283E-05 | 200 |
| S 134.0 | .8 | 3057 | 2.039E-06 | 5.300E-06 | 200 |
| 134.0 | 1.5 | 4574 | 3.105E-06 | 7.930E-06 | 200 |
| 134.0 | 2.5 | 6013 | 4.009E-06 | 1.042E-05 | 200 |
| 134.0 | 4.0 | 11716 | 7.811E-06 | 2.031E-05 | 200 |
| 134.0 | 5.5 | 21230 | 1.415E-05 | 3.680E-05 | 200 |
| 134.0 | 7.0 | 29064 | 1.938E-05 | 5.038E-05 | 200 |
| 134.0 | 8.5 | 44931 | 2.999E-05 | 7.797E-05 | 200 |
| 134.0 | 10.0 | 54724 | 3.648E-05 | 9.486E-05 | 200 |
| 134.0 | 13.0 | 79656 | 5.310E-05 | 1.381E-04 | 200 |
| 134.0 | 16.0 | 121053 | 8.070E-05 | 2.098E-04 | 200 |
| T 134.0 | 19.0 | 50246 | 3.350E-05 | 8.709E-05 | 200 |
| 134.0 | 22.0 | 218718 | 1.458E-04 | 3.791E-04 | 200 |
| 134.0 | 25.0 | 314494 | 2.098E-04 | 5.451E-04 | 200 |
| 134.0 | 28.0 | 176285 | 1.175E-04 | 3.056E-04 | 200 |
| 134.0 | 31.0 | 183837 | 1.226E-04 | 3.187E-04 | 200 |
| 134.0 | 32.8 | 201905 | 1.346E-04 | 3.500E-04 | 200 |

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12. 1972 1049 TO 1118 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 110.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 118.0 | .4 | 147 | 1.480E-06 | 3.847E-06 | 200 |
| L 118.0 | .8 | 91 | 9.122E-07 | 2.372E-06 | 200 |
| 118.0 | 1.5 | 73 | 7.365E-07 | 1.915E-06 | 200 |
| 118.0 | 2.5 | 1 | 1.622E-08 | 4.216E-08 | 200 |
| 118.0 | 4.0 | 27 | 2.716E-07 | 7.062E-07 | 200 |
| 118.0 | 5.5 | 3 | 3.378E-08 | 8.784E-08 | 200 |
| 118.0 | 7.0 | 8 | 8.514E-08 | 2.214E-07 | 200 |
| 118.0 | 8.5 | 7 | 7.703E-08 | 2.003E-07 | 200 |
| 118.0 | 10.0 | 0 | 0. | 0. | 200 |
| 118.0 | 13.0 | 0 | 0. | 0. | 200 |
| 118.0 | 16.0 | 0 | 0. | 0. | 200 |
| 118.0 | 19.0 | 1 | 1.757E-08 | 4.568E-08 | 200 |
| 118.0 | 22.0 | 4 | 4.730E-08 | 1.230E-07 | 200 |
| 118.0 | 25.0 | 27 | 2.716E-07 | 7.062E-07 | 200 |
| 118.0 | 28.0 | 57 | 5.743E-07 | 1.493E-06 | 200 |
| 118.0 | 31.0 | 38 | 3.851E-07 | 1.001E-06 | 200 |
| 118.0 | 32.8 | 61 | 6.149E-07 | 1.599E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 126.0 | .4 | 80 | 8.041E-07 | 2.091E-06 | 200 |
| L 126.0 | .8 | 65 | 6.554E-07 | 1.704E-06 | 200 |
| 126.0 | 1.5 | 73 | 7.365E-07 | 1.915E-06 | 200 |
| 126.0 | 2.5 | 57 | 5.743E-07 | 1.493E-06 | 200 |
| 126.0 | 4.0 | 184 | 1.845E-06 | 4.796E-06 | 200 |
| 126.0 | 5.5 | 358 | 3.588E-06 | 9.328E-06 | 200 |
| 126.0 | 7.0 | 453 | 4.534E-06 | 1.179E-05 | 200 |
| 126.0 | 8.5 | 642 | 6.426E-06 | 1.671E-05 | 200 |
| 126.0 | 10.0 | 723 | 7.236E-06 | 1.881E-05 | 200 |
| 126.0 | 13.0 | 1493 | 1.494E-05 | 3.884E-05 | 200 |
| 126.0 | 16.0 | 2142 | 2.143E-05 | 5.571E-05 | 200 |
| 126.0 | 19.0 | 2912 | 2.913E-05 | 7.573E-05 | 200 |
| 126.0 | 22.0 | 3602 | 3.602E-05 | 9.365E-05 | 200 |
| 126.0 | 25.0 | 3319 | 3.319E-05 | 8.627E-05 | 200 |
| 126.0 | 28.0 | 2750 | 2.751E-05 | 7.152E-05 | 200 |
| 126.0 | 31.0 | 1574 | 1.575E-05 | 4.095E-05 | 200 |
| S 126.0 | 32.8 | 696 | 6.966E-06 | 1.811E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 134.0 | .4 | 253 | 2.534E-06 | 6.588E-06 | 200 |
| S 134.0 | .8 | 426 | 4.264E-06 | 1.109E-05 | 200 |
| 134.0 | 1.5 | 1291 | 1.291E-05 | 3.357E-05 | 200 |
| 134.0 | 2.5 | 669 | 6.696E-06 | 1.741E-05 | 200 |
| 134.0 | 4.0 | 1950 | 1.950E-05 | 5.149E-05 | 200 |
| 134.0 | 5.5 | 2588 | 2.589E-05 | 6.730E-05 | 200 |
| 134.0 | 7.0 | 4858 | 4.859E-05 | 1.263E-04 | 200 |
| 134.0 | 8.5 | 6480 | 6.480E-05 | 1.685E-04 | 200 |
| 134.0 | 10.0 | 8460 | 8.460E-05 | 2.199E-04 | 200 |
| 134.0 | 13.0 | 8642 | 8.643E-05 | 2.247E-04 | 200 |
| 134.0 | 16.0 | 12020 | 1.202E-04 | 3.125E-04 | 200 |
| F 134.0 | 19.0 | 14318 | 1.432E-04 | 3.723E-04 | 200 |
| 134.0 | 22.0 | 19993 | 1.999E-04 | 5.198E-04 | 200 |
| 134.0 | 25.0 | 26480 | 2.648E-04 | 6.885E-04 | 200 |
| 134.0 | 28.0 | 15669 | 1.567E-04 | 4.074E-04 | 200 |
| 134.0 | 31.0 | 15399 | 1.540E-04 | 4.004E-04 | 200 |
| 134.0 | 32.8 | 14318 | 1.432E-04 | 3.723E-04 | 200 |

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 0 | 0. | 0. | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 218 | 1.454E-07 | 3.782E-07 | 845 |
| 120.2 | .5 | 133 | 8.896E-08 | 2.313E-07 | 845 |
| 120.2 | 1.1 | 139 | 9.290E-08 | 2.415E-07 | 845 |
| 120.2 | 1.5 | 174 | 1.163E-07 | 3.024E-07 | 845 |
| 120.2 | 2.1 | 213 | 1.421E-07 | 3.694E-07 | 845 |
| 120.2 | 4.2 | 229 | 1.530E-07 | 3.978E-07 | 845 |
| 120.2 | 6.3 | 277 | 1.850E-07 | 4.811E-07 | 845 |
| 120.2 | 8.4 | 158 | 1.055E-07 | 2.743E-07 | 845 |
| 120.2 | 10.5 | 181 | 1.212E-07 | 3.151E-07 | 845 |
| 120.2 | 12.6 | 70 | 4.713E-08 | 1.225E-07 | 845 |
| 120.2 | 14.7 | 129 | 8.604E-08 | 2.237E-07 | 845 |
| 120.2 | 16.8 | 106 | 7.111E-08 | 1.849E-07 | 845 |
| 120.2 | 21.0 | 105 | 7.039E-08 | 1.830E-07 | 845 |
| 120.2 | 25.2 | 86 | 5.746E-08 | 1.494E-07 | 845 |
| 120.2 | 29.4 | 32 | 2.155E-08 | 5.602E-08 | 845 |
| 120.2 | 33.6 | 44 | 2.970E-08 | 7.721E-08 | 845 |
| 120.2 | 37.8 | 16 | 1.105E-08 | 2.873E-08 | 845 |
| 120.2 | 42.0 | 4 | 2.762E-09 | 7.182E-09 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 16704 | 1.114E-05 | 2.895E-05 | 857 |
| 127.7 | .5 | 13536 | 9.024E-06 | 2.346E-05 | 857 |
| 127.7 | 1.1 | 18765 | 1.252E-05 | 3.256E-05 | 857 |
| 127.7 | 1.5 | 19048 | 1.203E-05 | 3.128E-05 | 857 |
| 127.7 | 2.1 | 15392 | 1.026E-05 | 2.666E-05 | 857 |
| 127.7 | 4.2 | 15718 | 1.048E-05 | 2.725E-05 | 857 |
| 127.7 | 6.3 | 17496 | 1.166E-05 | 3.033E-05 | 857 |
| 127.7 | 8.4 | 14645 | 9.764E-06 | 2.539E-05 | 857 |
| 127.7 | 10.5 | 17116 | 1.141E-05 | 2.967E-05 | 857 |
| 127.7 | 12.6 | 16627 | 1.108E-05 | 2.882E-05 | 857 |
| 127.7 | 14.7 | 15339 | 1.023E-05 | 2.659E-05 | 857 |
| 127.7 | 16.8 | 16818 | 1.121E-05 | 2.915E-05 | 857 |
| 127.7 | 21.0 | 11157 | 7.436E-06 | 1.934E-05 | 857 |
| 127.7 | 25.2 | 14307 | 9.533E-06 | 2.480E-05 | 857 |
| 127.7 | 29.4 | 12839 | 8.560E-06 | 2.226E-05 | 857 |
| 127.7 | 33.6 | 9727 | 6.485E-06 | 1.686E-05 | 857 |
| 127.7 | 37.8 | 9714 | 6.477E-06 | 1.684E-05 | 857 |
| 127.7 | 42.0 | 7304 | 4.870E-06 | 1.266E-05 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 4359 | 2.906E-06 | 7.556E-06 | 867 |
| 135.0 | .5 | 629 | 4.195E-07 | 1.091E-06 | 867 |
| 135.0 | 1.1 | 4322 | 2.882E-06 | 7.492E-06 | 867 |
| 135.0 | 1.5 | 4309 | 2.873E-06 | 7.470E-06 | 867 |
| 135.0 | 2.1 | 5126 | 3.418E-06 | 8.886E-06 | 867 |
| 135.0 | 4.2 | 6033 | 4.022E-06 | 1.046E-05 | 867 |
| 135.0 | 6.3 | 7073 | 4.715E-06 | 1.226E-05 | 867 |
| 135.0 | 8.4 | 7198 | 4.799E-06 | 1.248E-05 | 867 |
| 135.0 | 10.5 | 6979 | 4.653E-06 | 1.210E-05 | 867 |
| 135.0 | 12.6 | 9686 | 6.457E-06 | 1.679E-05 | 867 |
| 135.0 | 14.7 | 8535 | 5.691E-06 | 1.480E-05 | 867 |
| 135.0 | 16.8 | 9160 | 6.107E-06 | 1.588E-05 | 867 |
| 135.0 | 21.0 | 10270 | 6.847E-06 | 1.780E-05 | 867 |
| Z 135.0 | 25.2 | 8599 | 5.733E-06 | 1.491E-05 | 867 |
| Z 135.0 | 29.4 | 7636 | 5.091E-06 | 1.324E-05 | 867 |
| E 135.0 | 33.6 | 8285 | 5.524E-06 | 1.436E-05 | 867 |
| 135.0 | 37.8 | 9177 | 6.118E-06 | 1.591E-05 | 867 |
| 135.0 | 42.0 | 7797 | 5.198E-06 | 1.352E-05 | 867 |

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 112.6 | .3 | 0 | 0. | 0. | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 0 | 2.614E-09 | 6.797E-09 | 845 |
| 120.2 | .5 | 0 | 5.274E-09 | 1.359E-08 | 845 |
| 120.2 | 1.1 | 0 | 0. | 0. | 845 |
| 120.2 | 1.5 | 3 | 3.660E-08 | 9.516E-08 | 845 |
| 120.2 | 2.1 | 0 | 0. | 0. | 845 |
| 120.2 | 4.2 | 0 | 6.536E-09 | 1.699E-08 | 845 |
| 120.2 | 6.3 | 0 | 0. | 0. | 845 |
| 120.2 | 8.4 | 0 | 0. | 0. | 845 |
| 120.2 | 10.5 | 3 | 3.399E-08 | 8.837E-08 | 845 |
| 120.2 | 12.6 | 0 | 0. | 0. | 845 |
| 120.2 | 14.7 | 0 | 0. | 0. | 845 |
| 120.2 | 16.8 | 1 | 1.046E-08 | 2.719E-08 | 845 |
| 120.2 | 21.0 | 0 | 0. | 0. | 845 |
| 120.2 | 25.2 | 0 | 0. | 0. | 845 |
| 120.2 | 29.4 | 0 | 0. | 0. | 845 |
| 120.2 | 33.6 | 0 | 0. | 0. | 845 |
| 120.2 | 37.8 | 0 | 0. | 0. | 845 |
| 120.2 | 42.0 | 0 | 3.922E-09 | 1.020E-08 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 1029 | 1.030E-05 | 2.677E-05 | 857 |
| 127.7 | 1.5 | 1487 | 1.487E-05 | 3.867E-05 | 857 |
| 127.7 | .5 | 1199 | 1.200E-05 | 3.119E-05 | 857 |
| 127.7 | 1.1 | 1565 | 1.566E-05 | 4.071E-05 | 857 |
| 127.7 | 2.1 | 1369 | 1.370E-05 | 3.561E-05 | 857 |
| 127.7 | 4.2 | 1252 | 1.252E-05 | 3.255E-05 | 857 |
| 127.7 | 6.3 | 1291 | 1.291E-05 | 3.357E-05 | 857 |
| 127.7 | 8.4 | 1016 | 1.017E-05 | 2.644E-05 | 857 |
| 127.7 | 10.5 | 1147 | 1.147E-05 | 2.983E-05 | 857 |
| 127.7 | 12.6 | 1082 | 1.082E-05 | 2.813E-05 | 857 |
| 127.7 | 14.7 | 1082 | 1.082E-05 | 2.813E-05 | 857 |
| 127.7 | 16.8 | 964 | 9.644E-06 | 2.506E-05 | 857 |
| 127.7 | 21.0 | 624 | 6.246E-06 | 1.624E-05 | 857 |
| 127.7 | 25.2 | 742 | 7.422E-06 | 1.930E-05 | 857 |
| 127.7 | 29.4 | 585 | 5.854E-06 | 1.522E-05 | 857 |
| 127.7 | 33.6 | 369 | 3.697E-06 | 9.612E-06 | 857 |
| 127.7 | 37.8 | 350 | 3.501E-06 | 9.102E-06 | 857 |
| 127.7 | 42.0 | 204 | 2.050E-06 | 5.329E-06 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 248 | 2.481E-06 | 6.451E-06 | 867 |
| 135.0 | .5 | 70 | 7.033E-07 | 1.828E-06 | 867 |
| 135.0 | 1.1 | 318 | 3.187E-06 | 8.286E-06 | 867 |
| 135.0 | 1.5 | 467 | 4.677E-06 | 1.216E-05 | 867 |
| 135.0 | 2.1 | 377 | 3.775E-06 | 9.815E-06 | 867 |
| 135.0 | 4.2 | 428 | 4.285E-06 | 1.114E-05 | 867 |
| 135.0 | 6.3 | 402 | 4.024E-06 | 1.046E-05 | 867 |
| 135.0 | 8.4 | 506 | 5.064E-06 | 1.316E-05 | 867 |
| 135.0 | 10.5 | 611 | 6.115E-06 | 1.590E-05 | 867 |
| 135.0 | 12.6 | 872 | 8.729E-06 | 2.270E-05 | 867 |
| 135.0 | 14.7 | 689 | 6.899E-06 | 1.794E-05 | 867 |
| 135.0 | 16.8 | 716 | 7.161E-06 | 1.862E-05 | 867 |
| 135.0 | 21.0 | 689 | 6.899E-06 | 1.794E-05 | 867 |
| Z 135.0 | 25.2 | 559 | 5.592E-06 | 1.454E-05 | 867 |
| Z 135.0 | 29.4 | 846 | 8.468E-06 | 2.202E-05 | 867 |
| E 135.0 | 33.6 | 342 | 3.422E-06 | 8.898E-06 | 867 |
| 135.0 | 37.8 | 67 | 6.771E-07 | 1.761E-06 | 867 |
| 135.0 | 42.0 | 63 | 6.379E-07 | 1.659E-06 | 867 |

1202904



V4

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 109.5 | .2 | 0 | 0. | 0. | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 526 | 3.511E-07 | 9.129E-07 | 1643 |
| 117.3 | .4 | 614 | 4.111E-07 | 1.069E-06 | 1643 |
| 117.3 | .8 | 493 | 3.287E-07 | 8.547E-07 | 1643 |
| 117.3 | 1.6 | 650 | 4.338E-07 | 1.128E-06 | 1643 |
| 117.3 | 3.1 | 507 | 3.386E-07 | 8.803E-07 | 1643 |
| S 117.3 | 6.2 | 487 | 3.251E-07 | 8.453E-07 | 1643 |
| 117.3 | 9.3 | 542 | 3.617E-07 | 9.404E-07 | 1643 |
| 117.3 | 12.4 | 443 | 2.955E-07 | 7.683E-07 | 1643 |
| Z 117.3 | 15.5 | 266 | 1.776E-07 | 4.618E-07 | 1643 |
| 117.3 | 18.6 | 332 | 2.214E-07 | 5.756E-07 | 1643 |
| 117.3 | 21.7 | 241 | 1.611E-07 | 4.190E-07 | 1643 |
| T 117.3 | 24.8 | 111 | 7.414E-08 | 1.928E-07 | 1643 |
| M 117.3 | 31.0 | 88 | 5.921E-08 | 1.539E-07 | 1643 |
| T 117.3 | 37.2 | 103 | 6.798E-08 | 1.767E-07 | 1643 |
| Z 117.3 | 43.4 | 231 | 1.565E-07 | 4.016E-07 | 1643 |
| 117.3 | 49.6 | 131 | 8.781E-08 | 2.283E-07 | 1643 |
| 117.3 | 55.8 | 135 | 9.035E-08 | 2.349E-07 | 1643 |
| L 117.3 | 62.0 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 125.0 | .2 | 1849 | 1.233E-06 | 3.205E-06 | 1655 |
| 125.0 | .4 | 1867 | 1.245E-06 | 3.237E-06 | 1655 |
| 125.0 | .8 | 2138 | 1.426E-06 | 3.706E-06 | 1655 |
| 125.0 | 1.6 | 5117 | 3.412E-06 | 8.871E-06 | 1655 |
| 125.0 | 3.1 | 4438 | 2.959E-06 | 7.693E-06 | 1655 |
| 125.0 | 6.2 | 5428 | 3.619E-06 | 9.409E-06 | 1655 |
| Z 125.0 | 9.3 | 3688 | 2.455E-06 | 6.393E-06 | 1655 |
| Z 125.0 | 12.4 | 3309 | 2.206E-06 | 5.736E-06 | 1655 |
| 125.0 | 15.5 | 3890 | 2.594E-06 | 6.744E-06 | 1655 |
| 125.0 | 18.6 | 4980 | 3.320E-06 | 8.633E-06 | 1655 |
| Z 125.0 | 21.7 | 3176 | 2.116E-06 | 5.506E-06 | 1655 |
| Z 125.0 | 24.8 | 2387 | 1.591E-06 | 4.138E-06 | 1655 |
| Z 125.0 | 31.0 | 1324 | 8.830E-07 | 2.296E-06 | 1655 |
| 125.0 | 37.2 | 3230 | 2.154E-06 | 5.599E-06 | 1655 |
| T 125.0 | 43.4 | 817 | 5.447E-07 | 1.416E-06 | 1655 |
| 125.0 | 49.6 | 2427 | 1.618E-06 | 4.207E-06 | 1655 |
| 125.0 | 55.8 | 2668 | 1.779E-06 | 4.625E-06 | 1655 |
| Z 125.0 | 62.0 | 1521 | 1.014E-06 | 2.638E-06 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 3816 | 2.544E-06 | 6.615E-06 | 1665 |
| 132.5 | .4 | 3622 | 2.415E-06 | 6.279E-06 | 1665 |
| 132.5 | .8 | 4788 | 3.192E-06 | 8.300E-06 | 1665 |
| 132.5 | 1.6 | 4561 | 3.041E-06 | 7.907E-06 | 1665 |
| 132.5 | 3.1 | 3877 | 2.585E-06 | 6.722E-06 | 1665 |
| 132.5 | 6.2 | 3770 | 2.514E-06 | 6.535E-06 | 1665 |
| 132.5 | 9.3 | 2670 | 1.781E-06 | 4.629E-06 | 1665 |
| 132.5 | 12.4 | 4077 | 2.718E-06 | 7.067E-06 | 1665 |
| 132.5 | 15.5 | 2984 | 1.989E-06 | 5.172E-06 | 1665 |
| Z 132.5 | 18.6 | 2543 | 1.696E-06 | 4.409E-06 | 1665 |
| 132.5 | 21.7 | 3280 | 2.187E-06 | 5.686E-06 | 1665 |
| 132.5 | 24.8 | 3706 | 2.471E-06 | 6.424E-06 | 1665 |
| Z 132.5 | 31.0 | 1463 | 9.756E-07 | 2.537E-06 | 1665 |
| 132.5 | 37.2 | 2418 | 1.612E-06 | 4.193E-06 | 1665 |
| 132.5 | 43.4 | 2297 | 1.532E-06 | 3.982E-06 | 1665 |
| 132.5 | 49.6 | 1826 | 1.218E-06 | 3.166E-06 | 1665 |
| 132.5 | 55.8 | 995 | 6.636E-07 | 1.725E-06 | 1665 |
| 132.5 | 62.0 | 1310 | 8.739E-07 | 2.272E-06 | 1665 |

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC U= 2.6 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 109.5 | .2 | 0 | 0. | 0. | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 1 | 1.207E-08 | 3.138E-08 | 1643 |
| 117.3 | .4 | 1 | 1.243E-08 | 3.362E-08 | 1643 |
| 117.3 | .8 | 0 | 8.671E-10 | 2.241E-09 | 1643 |
| 117.3 | 1.5 | 5 | 5.431E-08 | 1.412E-07 | 1643 |
| 117.3 | 1.6 | 1 | 1.810E-08 | 4.707E-08 | 1643 |
| 117.3 | 3.1 | 0 | 9.483E-09 | 2.466E-08 | 1643 |
| S 117.3 | 6.2 | 0 | 0. | 0. | 1643 |
| 117.3 | 9.3 | 1 | 1.034E-08 | 2.690E-08 | 1643 |
| 117.3 | 12.4 | 1 | 1.293E-08 | 3.362E-08 | 1643 |
| Z 117.3 | 15.5 | 0 | 0. | 0. | 1643 |
| 117.3 | 18.6 | 0 | 0. | 0. | 1643 |
| 117.3 | 21.7 | 0 | 0. | 0. | 1643 |
| T 117.3 | 24.8 | 0 | 0. | 0. | 1643 |
| T 117.3 | 31.0 | 0 | 0. | 0. | 1643 |
| T 117.3 | 37.2 | 0 | 0. | 0. | 1643 |
| Z 117.3 | 43.4 | 0 | 0. | 0. | 1643 |
| 117.3 | 49.6 | 0 | 0. | 0. | 1643 |
| 117.3 | 55.8 | 0 | 0. | 0. | 1643 |
| L 117.3 | 62.0 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 125.0 | .2 | 150 | 1.903E-06 | 4.949E-06 | 1655 |
| 125.0 | .4 | 195 | 1.955E-06 | 5.083E-06 | 1655 |
| 125.0 | .8 | 192 | 1.929E-06 | 5.016E-06 | 1655 |
| 125.0 | 1.5 | 185 | 1.852E-06 | 4.814E-06 | 1655 |
| 125.0 | 1.6 | 479 | 4.791E-06 | 1.246E-05 | 1655 |
| 125.0 | 3.1 | 461 | 4.619E-06 | 1.201E-05 | 1655 |
| 125.0 | 6.2 | 427 | 4.274E-06 | 1.111E-05 | 1655 |
| Z 125.0 | 9.3 | 289 | 2.895E-06 | 7.527E-06 | 1655 |
| Z 125.0 | 12.4 | 255 | 2.550E-06 | 6.630E-06 | 1655 |
| 125.0 | 15.5 | 384 | 3.843E-06 | 9.992E-06 | 1655 |
| 125.0 | 18.6 | 358 | 3.584E-06 | 9.320E-06 | 1655 |
| Z 125.0 | 21.7 | 272 | 2.722E-06 | 7.078E-06 | 1655 |
| Z 125.0 | 24.8 | 179 | 1.800E-06 | 4.680E-06 | 1655 |
| Z 125.0 | 31.0 | 48 | 4.810E-07 | 1.251E-06 | 1655 |
| 125.0 | 37.2 | 298 | 2.981E-06 | 7.751E-06 | 1655 |
| T 125.0 | 43.4 | 35 | 3.517E-07 | 9.145E-07 | 1655 |
| 125.0 | 49.6 | 187 | 1.875E-06 | 4.875E-06 | 1655 |
| 125.0 | 55.8 | 172 | 1.722E-06 | 4.478E-06 | 1655 |
| Z 125.0 | 62.0 | 121 | 1.231E-06 | 3.201E-06 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 242 | 2.421E-06 | 6.294E-06 | 1665 |
| 132.5 | .4 | 255 | 2.555E-06 | 6.630E-06 | 1665 |
| 132.5 | .8 | 236 | 2.369E-06 | 6.159E-06 | 1665 |
| 132.5 | 1.5 | 323 | 3.240E-06 | 8.423E-06 | 1665 |
| 132.5 | 1.6 | 289 | 2.895E-06 | 7.527E-06 | 1665 |
| 132.5 | 3.1 | 263 | 2.636E-06 | 6.854E-06 | 1665 |
| 132.5 | 6.2 | 255 | 2.550E-06 | 6.630E-06 | 1665 |
| 132.5 | 9.3 | 190 | 1.903E-06 | 4.949E-06 | 1665 |
| 132.5 | 12.4 | 195 | 1.955E-06 | 5.083E-06 | 1665 |
| 132.5 | 15.5 | 192 | 1.929E-06 | 5.016E-06 | 1665 |
| Z 132.5 | 18.6 | 164 | 1.645E-06 | 4.277E-06 | 1665 |
| 132.5 | 21.7 | 234 | 2.343E-06 | 6.092E-06 | 1665 |
| 132.5 | 24.8 | 234 | 2.343E-06 | 6.092E-06 | 1665 |
| Z 132.5 | 31.0 | 81 | 8.172E-07 | 2.125E-06 | 1665 |
| 132.5 | 37.2 | 164 | 1.645E-06 | 4.277E-06 | 1665 |
| 132.5 | 43.4 | 174 | 1.746E-06 | 4.540E-06 | 1665 |
| 132.5 | 49.6 | 141 | 1.412E-06 | 3.671E-06 | 1665 |
| 132.5 | 55.8 | 79 | 7.914E-07 | 2.058E-06 | 1665 |
| 132.5 | 62.0 | 107 | 1.076E-06 | 2.797E-06 | 1665 |



V4 1202905

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC U= 2.6 M/SEC AT 26M

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 123.4 | .2 | 770 | 5.136E-07 | 1.335E-06 | 3253 |
| | 123.4 | .4 | 986 | 6.579E-07 | 1.711E-06 | 3253 |
| S | 123.4 | .8 | 831 | 5.544E-07 | 1.441E-06 | 3253 |
| | 123.4 | 1.5 | 30 | 2.046E-08 | 5.371E-08 | 3253 |
| | 123.4 | 1.6 | 995 | 6.635E-07 | 1.725E-06 | 3253 |
| | 123.4 | 3.1 | 16 | 1.122E-08 | 2.917E-08 | 3253 |
| | 123.4 | 6.2 | 1229 | 8.196E-07 | 2.131E-06 | 3253 |
| Z | 123.4 | 9.3 | 902 | 6.018E-07 | 1.565E-06 | 3253 |
| | 123.4 | 12.4 | 1059 | 7.064E-07 | 1.837E-06 | 3253 |
| Z | 123.4 | 15.5 | 1009 | 6.732E-07 | 1.750E-06 | 3253 |
| Z | 123.4 | 18.6 | 1118 | 7.457E-07 | 1.939E-06 | 3253 |
| M | 123.4 | 21.7 | 558 | 3.726E-07 | 9.687E-07 | 3253 |
| S | 123.4 | 24.8 | 1263 | 8.426E-07 | 2.191E-06 | 3253 |
| S | 123.4 | 31.0 | 889 | 5.932E-07 | 1.542E-06 | 3253 |
| | 123.4 | 37.2 | 1202 | 8.016E-07 | 2.085E-06 | 3253 |
| Z | 123.4 | 43.4 | 32 | 2.146E-08 | 5.636E-08 | 3253 |
| L | 123.4 | 49.6 | 0 | 0. | 0. | 3253 |
| Z | 123.4 | 55.8 | 51 | 3.417E-08 | 8.885E-08 | 3253 |
| Z | 123.4 | 62.0 | 48 | 3.239E-08 | 8.421E-08 | 3253 |

TOWER DATA FOLLOW....

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST
AMMONIUM B RELEASE FROM ELEVATION OF 26M
3200M ARC U= 2.6 M/SEC AT 26M

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 123.4 | .2 | 100 | 1.001E-06 | 2.603E-06 | 3253 |
| | 123.4 | .4 | 94 | 9.427E-07 | 2.451E-06 | 3253 |
| S | 123.4 | .8 | 76 | 7.673E-07 | 1.995E-06 | 3253 |
| | 123.4 | 1.6 | 104 | 1.044E-06 | 2.725E-06 | 3253 |
| | 123.4 | 3.1 | 0 | 0. | 0. | 3253 |
| | 123.4 | 6.2 | 97 | 9.776E-07 | 2.542E-06 | 3253 |
| Z | 123.4 | 9.3 | 60 | 6.035E-07 | 1.569E-06 | 3253 |
| | 123.4 | 12.4 | 86 | 8.608E-07 | 2.238E-06 | 3253 |
| Z | 123.4 | 15.5 | 75 | 7.556E-07 | 1.964E-06 | 3253 |
| Z | 123.4 | 18.6 | 100 | 1.001E-06 | 2.603E-06 | 3253 |
| L | 123.4 | 21.7 | 0 | 0. | 0. | 3253 |
| | 123.4 | 24.8 | 84 | 8.491E-07 | 2.208E-06 | 3253 |
| S | 123.4 | 31.0 | 61 | 6.152E-07 | 1.600E-06 | 3253 |
| S | 123.4 | 37.2 | 83 | 8.374E-07 | 2.177E-06 | 3253 |
| I | 123.4 | 43.4 | 0 | 0. | 0. | 3253 |
| I | 123.4 | 49.6 | 0 | 0. | 0. | 3253 |
| I | 123.4 | 55.8 | 0 | 0. | 0. | 3253 |
| I | 123.4 | 62.0 | 0 | 0. | 0. | 3253 |

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| E | 131.2 | .2 | 0 | 0. | 0. | 3264 |
| | 131.2 | .4 | 28 | 1.901E-08 | 4.943E-08 | 3264 |
| | 131.2 | .8 | 37 | 2.525E-08 | 6.564E-08 | 3264 |
| | 131.2 | 1.6 | 1400 | 9.333E-07 | 2.427E-06 | 3264 |
| | 131.2 | 3.1 | 1759 | 1.173E-06 | 3.051E-06 | 3264 |
| | 131.2 | 6.2 | 1729 | 1.153E-06 | 2.998E-06 | 3264 |
| | 131.2 | 9.3 | 1638 | 1.092E-06 | 2.840E-06 | 3264 |
| L | 131.2 | 12.4 | 0 | 0. | 0. | 3264 |
| | 131.2 | 15.5 | 1892 | 1.262E-06 | 3.281E-06 | 3264 |
| Z | 131.2 | 18.6 | 1470 | 9.803E-07 | 2.549E-06 | 3264 |
| Z | 131.2 | 21.7 | 35 | 2.346E-08 | 6.100E-08 | 3264 |
| Z | 131.2 | 24.8 | 58 | 3.902E-08 | 1.014E-07 | 3264 |
| Z | 131.2 | 31.0 | 58 | 3.876E-08 | 1.008E-07 | 3264 |
| Z | 131.2 | 37.2 | 79 | 5.330E-08 | 1.366E-07 | 3264 |
| Z | 131.2 | 43.4 | 171 | 1.145E-07 | 2.977E-07 | 3264 |
| Z | 131.2 | 49.6 | 54 | 3.621E-08 | 9.415E-08 | 3264 |
| Z | 131.2 | 55.8 | 21 | 1.403E-08 | 3.647E-08 | 3264 |
| Z | 131.2 | 62.0 | 77 | 5.151E-08 | 1.339E-07 | 3264 |

| | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|
| | 131.2 | .2 | 0 | 0. | 0. | 3264 |
| A | 131.2 | .4 | 15 | 1.591E-07 | 4.136E-07 | 3264 |
| S | 131.2 | .8 | 8 | 8.070E-08 | 2.098E-07 | 3264 |
| | 131.2 | 1.6 | 130 | 1.309E-06 | 3.404E-06 | 3264 |
| | 131.2 | 3.1 | 127 | 1.270E-06 | 3.302E-06 | 3264 |
| | 131.2 | 6.2 | 119 | 1.192E-06 | 3.100E-06 | 3264 |
| | 131.2 | 9.3 | 142 | 1.426E-06 | 3.708E-06 | 3264 |
| L | 131.2 | 12.4 | 0 | 0. | 0. | 3264 |
| | 131.2 | 15.5 | 123 | 1.231E-06 | 3.201E-06 | 3264 |
| Z | 131.2 | 18.6 | 130 | 1.309E-06 | 3.404E-06 | 3264 |
| I | 131.2 | 21.7 | 0 | 0. | 0. | 3264 |
| I | 131.2 | 24.8 | 0 | 0. | 0. | 3264 |
| L | 131.2 | 31.0 | 0 | 0. | 0. | 3264 |
| I | 131.2 | 37.2 | 2 | 2.690E-08 | 6.994E-08 | 3264 |
| I | 131.2 | 43.4 | 0 | 9.357E-09 | 2.433E-08 | 3264 |
| J | 131.2 | 49.6 | 0 | 0. | 0. | 3264 |
| I | 131.2 | 55.8 | 0 | 0. | 0. | 3264 |
| I | 131.2 | 62.0 | 0 | 3.119E-09 | 8.109E-09 | 3264 |

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND EXTENT OF DISTRIBUTION. 14 TOWERS "HIT" BY TRACER; ALTHOUGH DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. EXTRAPOLATION WOULD BE REASONABLE. VERTICAL CROSS SECTIONS THROUGH TOWER ARCS SHOWS SIGNIFICANT DIRECTION SHEAR OF TRACERS WITH HT.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 84.0 | 0 | 0. | 0. | 200 |
| 86.0 | 129 | 6.959E-06 | 2.992E-07 | 200 |
| 88.0 | 290 | 1.515E-07 | 6.513E-07 | 200 |
| 90.0 | 615 | 3.316E-07 | 1.426E-06 | 200 |
| 92.0 | 1270 | 6.850E-07 | 2.946E-06 | 200 |
| 94.0 | 1545 | 8.331E-07 | 3.582E-06 | 200 |
| 96.0 | 2648 | 1.428E-06 | 6.140E-06 | 200 |
| 98.0 | 1187 | 6.400E-07 | 2.752E-06 | 200 |
| 100.0 | 2489 | 1.342E-06 | 5.771E-06 | 200 |
| 102.0 | 1968 | 1.061E-06 | 4.562E-06 | 200 |
| 104.0 | 3758 | 2.026E-06 | 8.713E-06 | 200 |
| 106.0 | 3542 | 1.910E-06 | 8.212E-06 | 200 |
| 108.0 | 1946 | 1.049E-06 | 4.512E-06 | 200 |
| 110.0 | 2128 | 1.148E-06 | 4.935E-06 | 200 |
| 112.0 | 1247 | 6.727E-07 | 2.893E-06 | 200 |
| 114.0 | 636 | 3.432E-07 | 1.476E-06 | 200 |
| E 116.0 | 122 | 6.618E-08 | 2.846E-07 | 200 |
| 118.0 | 43 | 2.320E-08 | 9.975E-08 | 200 |
| 120.0 | 127 | 6.891E-08 | 2.963E-07 | 200 |
| 122.0 | 129 | 6.959E-08 | 2.992E-07 | 200 |
| 124.0 | 11 | 6.141E-09 | 2.640E-08 | 200 |
| N 126.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 9.721E-05 SEC/SQ.M 4.180E-04 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 0 | 0. | 0. | 200 |
| 84.0 | 4 | 8.449E-08 | 3.633E-07 | 200 |
| 86.0 | 0 | 0. | 0. | 200 |
| 88.0 | 0 | 0. | 0. | 200 |
| 90.0 | 5 | 9.656E-08 | 4.152E-07 | 200 |
| 92.0 | 19 | 3.380E-07 | 1.453E-06 | 200 |
| 94.0 | 35 | 6.096E-07 | 2.621E-06 | 200 |
| 96.0 | 40 | 6.820E-07 | 2.933E-06 | 200 |
| E 98.0 | 56 | 9.536E-07 | 4.100E-06 | 200 |
| 100.0 | 74 | 1.261E-06 | 5.424E-06 | 200 |
| 102.0 | 47 | 8.087E-07 | 3.478E-06 | 200 |
| 104.0 | 28 | 4.828E-07 | 2.076E-06 | 200 |
| 106.0 | 41 | 7.001E-07 | 3.010E-06 | 200 |
| 108.0 | 24 | 4.104E-07 | 1.765E-06 | 200 |
| 110.0 | 21 | 3.561E-07 | 1.531E-06 | 200 |
| 112.0 | 19 | 3.259E-07 | 1.401E-06 | 200 |
| 114.0 | 2 | 4.225E-08 | 1.817E-07 | 200 |
| 9 116.0 | 28 | 4.828E-07 | 2.076E-06 | 200 |
| 118.0 | 0 | 0. | 0. | 200 |
| 120.0 | 0 | 0. | 0. | 200 |
| 122.0 | 1 | 2.414E-08 | 1.038E-07 | 200 |

CROSSWIND INTEGRATED= 5.347E-05 SEC/SQ.M 2.299E-04 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| L 78.0 | 0 | 0. | 0. | 400 |
| 82.0 | 22 | 1.227E-08 | 5.276E-08 | 400 |
| 86.0 | 499 | 2.695E-07 | 1.159E-06 | 400 |
| 90.0 | 1610 | 8.680E-07 | 3.732E-06 | 400 |
| 94.0 | 1322 | 7.131E-07 | 3.066E-06 | 400 |
| 5 98.0 | 8747 | 4.716E-06 | 2.028E-05 | 400 |
| 102.0 | 4203 | 2.266E-06 | 9.745E-06 | 400 |
| 106.0 | 3406 | 1.836E-06 | 7.895E-06 | 400 |
| 110.0 | 4964 | 2.676E-06 | 1.151E-05 | 400 |
| 114.0 | 826 | 4.456E-07 | 1.916E-06 | 400 |
| 118.0 | 33 | 1.796E-08 | 7.725E-08 | 400 |
| 122.0 | 5 | 3.067E-09 | 1.319E-08 | 400 |
| 126.0 | 7 | 4.163E-09 | 1.790E-08 | 400 |
| 130.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 3.861E-04 SEC/SQ.M 1.660E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| L 78.0 | 0 | 0. | 0. | 400 |
| 82.0 | 5 | 9.866E-08 | 4.242E-07 | 400 |
| 86.0 | 42 | 7.241E-07 | 3.114E-06 | 400 |
| 90.0 | 119 | 2.029E-06 | 8.720E-06 | 400 |
| 94.0 | 188 | 3.191E-06 | 1.372E-05 | 400 |
| 5 98.0 | 231 | 3.931E-06 | 1.690E-05 | 400 |
| 102.0 | 200 | 3.402E-06 | 1.463E-05 | 400 |
| 106.0 | 166 | 2.821E-06 | 1.213E-05 | 400 |
| 110.0 | 67 | 1.147E-06 | 4.932E-06 | 400 |
| 114.0 | 13 | 2.361E-07 | 1.015E-06 | 400 |
| 118.0 | 3 | 5.814E-08 | 2.500E-07 | 400 |
| 122.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 4.925E-04 SEC/SQ.M 2.118E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 77.0 | 0 | 0. | 0. | 771 |
| 79.0 | 0 | 0. | 0. | 774 |
| 81.1 | 42 | 2.310E-08 | 9.933E-06 | 778 |
| 83.1 | 274 | 1.478E-07 | 6.357E-07 | 781 |
| 85.2 | 782 | 4.217E-07 | 1.813E-06 | 785 |
| 87.2 | 1710 | 9.220E-07 | 3.965E-06 | 788 |
| 89.2 | 3167 | 1.707E-06 | 7.342E-06 | 792 |
| 91.2 | 5477 | 2.953E-06 | 1.270E-05 | 795 |
| 93.2 | 6029 | 3.250E-06 | 4.398E-05 | 799 |
| 95.1 | 4780 | 2.577E-06 | 1.108E-05 | 802 |
| 97.1 | 9776 | 5.271E-06 | 2.266E-05 | 806 |
| 99.1 | 12328 | 6.646E-06 | 2.858E-05 | 809 |
| 101.1 | 13908 | 7.498E-06 | 3.224E-05 | 813 |
| 103.0 | 17601 | 9.489E-06 | 4.080E-05 | 816 |
| E 105.0 | 15911 | 8.578E-06 | 3.686E-05 | 820 |
| 106.9 | 14911 | 8.039E-06 | 3.457E-05 | 823 |
| 108.8 | 11156 | 6.014E-06 | 2.586E-05 | 826 |
| 110.7 | 3038 | 1.638E-06 | 7.044E-06 | 829 |
| 112.6 | 1638 | 8.831E-07 | 3.797E-06 | 833 |
| 114.5 | 837 | 4.514E-07 | 1.941E-06 | 836 |
| 116.4 | 100 | 5.412E-08 | 2.327E-07 | 839 |
| 118.3 | 1 | 6.600E-10 | 2.838E-09 | 842 |

CROSSWIND INTEGRATED= 1.044E-03 SEC/SQ.M 7.920E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 81.1 | 3 | 5.254E-08 | 2.259E-07 | 778 |
| 83.1 | 16 | 2.744E-07 | 1.180E-06 | 781 |
| 85.2 | 40 | 6.947E-07 | 2.987E-06 | 785 |
| 87.2 | 80 | 1.360E-06 | 5.849E-06 | 788 |
| 89.2 | 138 | 2.341E-06 | 1.007E-05 | 792 |
| 91.2 | 186 | 3.158E-06 | 1.358E-05 | 795 |
| 93.2 | 231 | 3.917E-06 | 1.684E-05 | 799 |
| 95.1 | 310 | 5.260E-06 | 2.262E-05 | 802 |
| 97.1 | 265 | 4.501E-06 | 1.935E-05 | 806 |
| 99.1 | 300 | 5.085E-06 | 2.187E-05 | 809 |
| 101.1 | 355 | 6.019E-06 | 2.588E-05 | 813 |
| 103.0 | 365 | 6.194E-06 | 2.663E-05 | 816 |
| 105.0 | 355 | 6.019E-06 | 2.588E-05 | 820 |
| 106.9 | 344 | 5.844E-06 | 2.513E-05 | 823 |
| 108.8 | 227 | 3.859E-06 | 1.659E-05 | 826 |
| 110.7 | 86 | 1.465E-06 | 6.301E-06 | 829 |
| 112.6 | 39 | 6.772E-07 | 2.912E-06 | 833 |
| 114.5 | 12 | 2.160E-07 | 9.288E-07 | 836 |
| 116.4 | 1 | 2.919E-08 | 1.255E-07 | 839 |

CROSSWIND INTEGRATED= 1.576E-03 SEC/SQ.M 6.778E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 76.0 | 0 | 0. | 0. | 1200 |
| 78.0 | 1 | 6.110E-10 | 2.627E-09 | 1200 |
| 80.0 | 1 | 7.332E-10 | 3.153E-09 | 1200 |
| 82.0 | 75 | 4.069E-08 | 1.750E-07 | 1200 |
| 84.0 | 179 | 9.653E-08 | 4.151E-07 | 1200 |
| 86.0 | 252 | 1.362E-07 | 5.859E-07 | 1200 |
| 88.0 | 1057 | 5.703E-07 | 2.452E-06 | 1200 |
| 90.0 | 2376 | 1.281E-06 | 5.507E-06 | 1200 |
| 92.0 | 3777 | 2.037E-06 | 8.757E-06 | 1200 |
| 94.0 | 4963 | 2.676E-06 | 1.151E-05 | 1200 |
| 96.0 | 6711 | 3.618E-06 | 1.556E-05 | 1200 |
| 98.0 | 8916 | 4.807E-06 | 2.067E-05 | 1200 |
| 100.0 | 9712 | 5.236E-06 | 2.251E-05 | 1200 |
| 102.0 | 12563 | 6.773E-06 | 2.912E-05 | 1200 |
| 7 104.0 | 6910 | 3.725E-06 | 1.602E-05 | 1200 |
| 7 106.0 | 3887 | 2.096E-06 | 9.011E-06 | 1200 |
| 108.0 | 4906 | 2.645E-06 | 1.137E-05 | 1200 |
| 110.0 | 4461 | 2.405E-06 | 1.034E-05 | 1200 |
| 5 112.0 | 2226 | 1.200E-06 | 5.162E-06 | 1200 |
| 114.0 | 670 | 3.613E-07 | 1.554E-06 | 1200 |
| 5 116.0 | 93 | 5.047E-08 | 2.170E-07 | 1200 |
| 118.0 | 21 | 1.195E-08 | 5.097E-08 | 1200 |
| 5 120.0 | 5 | 2.933E-09 | 1.261E-08 | 1200 |
| 122.0 | 0 | 3.666E-10 | 1.576E-09 | 1200 |
| C 124.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.666E-03 SEC/SQ.M 7.163E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.0 | 3 | 5.503E-08 | 2.366E-07 | 1200 |
| 84.0 | 11 | 1.936E-07 | 8.324E-07 | 1200 |
| 86.0 | 13 | 2.260E-07 | 9.718E-07 | 1200 |
| 88.0 | 46 | 7.871E-07 | 3.385E-06 | 1200 |
| 90.0 | 87 | 1.485E-06 | 6.385E-06 | 1200 |
| 92.0 | 113 | 1.927E-06 | 8.260E-06 | 1200 |
| 94.0 | 138 | 2.340E-06 | 1.006E-05 | 1200 |
| 96.0 | 158 | 2.693E-06 | 1.158E-05 | 1200 |
| 98.0 | 190 | 3.224E-06 | 1.386E-05 | 1200 |
| 100.0 | 230 | 3.912E-06 | 1.682E-05 | 1200 |
| 102.0 | 236 | 4.010E-06 | 1.724E-05 | 1200 |
| 104.0 | 172 | 2.929E-06 | 1.260E-05 | 1200 |
| E 106.0 | 132 | 2.241E-06 | 9.636E-06 | 1200 |
| 7 108.0 | 106 | 1.809E-06 | 7.779E-06 | 1200 |
| 110.0 | 58 | 9.836E-07 | 4.230E-06 | 1200 |
| 5 112.0 | 36 | 6.200E-07 | 2.666E-06 | 1200 |
| 114.0 | 11 | 1.936E-07 | 8.324E-07 | 1200 |
| 5 116.0 | 6 | 1.169E-07 | 5.028E-07 | 1200 |
| 118.0 | 1 | 2.064E-08 | 8.873E-08 | 1200 |

CROSSWIND INTEGRATED= 1.247E-03 SEC/SQ.M 5.362E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 80.5 | 0 | 0. | 0. | 1580 |
| 81.5 | 2 | 1.368E-09 | 5.882E-09 | 1582 |
| 82.6 | 16 | 9.119E-09 | 3.921E-08 | 1584 |

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 82.6 | 0 | 0. | 0. | 1584 |

| | | | | | |
|---|---|---|---|---|---|
| | 83.6 | 57 | 3.101E-08 | 1.333E-07 | 1585 |
| | 84.6 | 60 | 3.283E-08 | 1.412E-07 | 1587 |
| | 85.6 | 90 | 4.879E-08 | 2.096E-07 | 1589 |
| | 86.6 | 141 | 7.615E-08 | 3.274E-07 | 1590 |
| | 87.6 | 104 | 5.654E-08 | 2.431E-07 | 1592 |
| | 88.6 | 405 | 2.184E-07 | 9.392E-07 | 1594 |
| | 89.6 | 436 | 2.353E-07 | 1.012E-06 | 1596 |
| | 90.6 | 768 | 4.140E-07 | 1.780E-06 | 1597 |
| | 91.6 | 1317 | 7.104E-07 | 3.055E-06 | 1599 |
| | 92.6 | 2162 | 1.166E-06 | 5.013E-06 | 1601 |
| E | 93.6 | 2619 | 1.412E-06 | 6.072E-06 | 1603 |
| E | 94.6 | 3042 | 1.640E-06 | 7.053E-06 | 1604 |
| E | 95.6 | 3380 | 1.823E-06 | 7.837E-06 | 1606 |
| E | 96.6 | 3634 | 1.959E-06 | 8.425E-06 | 1608 |
| | 97.6 | 3972 | 2.141E-06 | 9.207E-06 | 1610 |
| | 98.6 | 4276 | 2.305E-06 | 9.913E-06 | 1611 |
| | 99.6 | 7624 | 4.110E-06 | 1.767E-05 | 1613 |
| | 100.6 | 5797 | 3.125E-06 | 1.344E-05 | 1615 |
| | 101.6 | 7942 | 4.282E-06 | 1.841E-05 | 1617 |
| | 102.6 | 6556 | 3.534E-06 | 1.520E-05 | 1618 |
| | 103.6 | 2718 | 1.465E-06 | 6.302E-06 | 1620 |
| | 104.5 | 6627 | 3.573E-06 | 1.536E-05 | 1622 |
| | 105.5 | 2925 | 1.577E-06 | 6.782E-06 | 1623 |
| | 106.5 | 1621 | 8.741E-07 | 3.759E-06 | 1625 |
| | 107.5 | 4267 | 2.300E-06 | 9.892E-06 | 1627 |
| | 108.5 | 5031 | 2.713E-06 | 1.166E-05 | 1628 |
| | 109.5 | 4280 | 2.308E-06 | 9.923E-06 | 1630 |
| | 110.4 | 2833 | 1.528E-06 | 6.568E-06 | 1632 |
| | 111.4 | 2676 | 1.443E-06 | 6.204E-06 | 1633 |
| | 112.4 | 2462 | 1.327E-06 | 5.708E-06 | 1635 |
| | 113.4 | 1679 | 9.056E-07 | 3.894E-06 | 1637 |
| | 114.4 | 636 | 3.429E-07 | 1.474E-06 | 1638 |
| | 115.3 | 283 | 1.528E-07 | 6.568E-07 | 1640 |
| | 116.3 | 42 | 2.266E-08 | 9.603E-08 | 1641 |
| | 117.3 | 38 | 2.052E-08 | 8.823E-08 | 1643 |
| | 118.2 | 3 | 1.824E-09 | 7.843E-09 | 1644 |
| | 119.2 | 1 | 9.119E-10 | 3.921E-09 | 1646 |
| | 120.2 | 0 | 0. | 0. | 1647 |

CROSSWIND INTEGRATED= 1.395E-03 SEC/SQ.M  6.000E-03 1/M

| | | | | | |
|---|---|---|---|---|---|
| | 83.6 | 0 | 1.155E-08 | 4.967E-08 | 1585 |
| | 84.6 | 2 | 4.620E-08 | 1.987E-07 | 1587 |
| | 85.6 | 5 | 9.625E-08 | 4.139E-07 | 1589 |
| | 86.6 | 12 | 2.156E-07 | 9.271E-07 | 1590 |
| | 87.6 | 14 | 2.426E-07 | 1.043E-06 | 1592 |
| | 88.6 | 24 | 4.235E-07 | 1.821E-06 | 1594 |
| | 89.6 | 42 | 7.123E-07 | 3.063E-06 | 1596 |
| | 90.6 | 66 | 1.120E-06 | 4.816E-06 | 1597 |
| | 91.6 | 82 | 1.390E-06 | 5.976E-06 | 1599 |
| | 92.6 | 109 | 1.852E-06 | 7.963E-06 | 1601 |
| F | 93.6 | 120 | 2.044E-06 | 8.791E-06 | 1603 |
| E | 94.6 | 134 | 2.275E-06 | 9.784E-06 | 1604 |
| E | 95.6 | 143 | 2.429E-06 | 1.045E-05 | 1606 |
| E | 96.6 | 152 | 2.583E-06 | 1.111E-05 | 1608 |
| | 97.6 | 163 | 2.776E-06 | 1.194E-05 | 1610 |
| | 98.6 | 161 | 2.737E-06 | 1.177E-05 | 1611 |
| | 99.6 | 161 | 3.044E-06 | 1.326E-05 | 1613 |
| | 100.6 | 200 | 3.392E-06 | 1.459E-05 | 1615 |
| | 101.6 | 206 | 3.507E-06 | 1.508E-05 | 1617 |
| | 102.6 | 234 | 3.969E-06 | 1.707E-05 | 1618 |
| | 103.6 | 227 | 3.854E-06 | 1.657E-05 | 1620 |
| | 104.5 | 200 | 3.392E-06 | 1.459E-05 | 1622 |
| | 105.5 | 166 | 2.814E-06 | 1.210E-05 | 1623 |
| | 106.5 | 122 | 2.083E-06 | 8.956E-06 | 1625 |
| | 107.5 | 116 | 1.967E-06 | 8.460E-06 | 1627 |
| | 108.5 | 131 | 2.237E-06 | 9.619E-06 | 1628 |
| | 109.5 | 134 | 2.275E-06 | 9.784E-06 | 1630 |
| | 110.4 | 118 | 2.006E-06 | 8.625E-06 | 1632 |
| | 111.4 | 93 | 1.502E-06 | 6.604E-06 | 1633 |
| | 112.4 | 66 | 1.120E-06 | 4.816E-06 | 1635 |
| | 113.4 | 48 | 8.162E-07 | 3.510E-06 | 1637 |
| | 114.4 | 24 | 4.120E-07 | 1.771E-06 | 1638 |
| | 115.3 | 7 | 1.271E-07 | 5.463E-07 | 1640 |
| | 116.3 | 1 | 2.695E-08 | 1.159E-07 | 1641 |
| | 117.3 | 0 | 0. | 0. | 1643 |

CROSSWIND INTEGRATED= 1.665E-03 SEC/SQ.M  7.159E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 91.8 | 4 | 2.362E-09 | 1.024E-08 | 3201 |
| | 92.8 | 23 | 1.256E-08 | 5.400E-08 | 3203 |
| | 93.8 | 38 | 2.057E-08 | 8.845E-08 | 3205 |
| | 94.8 | 92 | 5.022E-08 | 2.151E-07 | 3206 |
| | 95.8 | 120 | 6.498E-08 | 2.793E-07 | 3208 |
| | 96.8 | 183 | 9.917E-08 | 4.264E-07 | 3210 |
| | 97.8 | 234 | 1.267E-07 | 5.426E-07 | 3212 |
| | 98.8 | 418 | 2.254E-07 | 9.692E-07 | 3213 |
| Q | 99.8 | 545 | 2.940E-07 | 1.264E-06 | 3215 |
| Q | 100.8 | 777 | 4.190E-07 | 1.802E-06 | 3217 |
| Q | 101.8 | 1371 | 7.392E-07 | 3.179E-06 | 3218 |
| | 102.8 | 1404 | 7.574E-07 | 3.257E-06 | 3220 |
| | 103.8 | 2242 | 1.209E-06 | 5.198E-06 | 3222 |
| | 104.8 | 3044 | 1.641E-06 | 7.058E-06 | 3224 |
| Q | 105.8 | 3865 | 2.084E-06 | 8.961E-06 | 3225 |
| Q | 106.8 | 3265 | 1.761E-06 | 7.570E-06 | 3227 |
| Q | 107.8 | 1709 | 9.213E-07 | 3.962E-06 | 3229 |
| | 108.8 | 6345 | 3.421E-06 | 1.471E-05 | 3230 |
| | 109.7 | 6177 | 3.330E-06 | 1.432E-05 | 3232 |
| | 110.7 | 3795 | 2.046E-06 | 8.797E-06 | 3233 |
| | 111.7 | 5669 | 3.056E-06 | 1.314E-05 | 3235 |
| | 112.7 | 5525 | 2.978E-06 | 1.281E-05 | 3237 |
| | 113.7 | 3837 | 2.069E-06 | 8.890E-06 | 3238 |
| | 114.6 | 4600 | 2.480E-06 | 1.066E-05 | 3240 |
| | 115.6 | 2572 | 1.387E-06 | 5.962E-06 | 3241 |
| | 116.6 | 2664 | 1.436E-06 | 6.170E-06 | 3243 |
| | 117.6 | 1189 | 6.411E-07 | 2.757E-06 | 3245 |
| | 118.6 | 138 | 7.470E-08 | 3.212E-07 | 3246 |
| | 119.5 | 36 | 1.992E-08 | 8.566E-08 | 3248 |
| | 120.5 | 6 | 3.248E-09 | 1.397E-08 | 3249 |
| | 121.5 | 10 | 5.630E-09 | 2.421E-08 | 3251 |
| E | 122.4 | 0 | 0. | 0. | 3252 |

CROSSWIND INTEGRATED= 1.850E-03 SEC/SQ.M  7.957E-03 1/M

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| | 92.8 | 0 | 1.741E-09 | 7.487E-09 | 3203 |
| | 93.8 | 1 | 2.612E-08 | 1.123E-07 | 3205 |
| F | 94.8 | 3 | 5.398E-08 | 2.321E-07 | 3206 |
| | 95.8 | 5 | 9.228E-08 | 3.966E-07 | 3208 |
| | 96.8 | 8 | 1.445E-07 | 6.214E-07 | 3210 |
| | 97.8 | 14 | 2.438E-07 | 1.048E-06 | 3212 |
| | 98.8 | 20 | 3.535E-07 | 1.520E-06 | 3213 |
| Q | 99.8 | 42 | 7.156E-07 | 3.077E-06 | 3215 |
| Q | 100.8 | 51 | 8.723E-07 | 3.751E-06 | 3217 |
| Q | 101.8 | 50 | 8.549E-07 | 3.676E-06 | 3218 |
| | 102.8 | 55 | 9.420E-07 | 4.050E-06 | 3220 |
| | 103.8 | 51 | 8.723E-07 | 3.751E-06 | 3222 |
| | 104.8 | 69 | 1.186E-06 | 5.099E-06 | 3224 |
| Q | 105.8 | 90 | 1.534E-06 | 6.596E-06 | 3225 |
| Q | 106.8 | 93 | 1.586E-06 | 6.821E-06 | 3227 |
| Q | 107.8 | 24 | 4.109E-07 | 1.767E-06 | 3229 |
| | 108.8 | 87 | 1.482E-06 | 6.371E-06 | 3230 |
| | 109.7 | 84 | 1.430E-06 | 6.147E-06 | 3232 |
| | 110.7 | 84 | 1.430E-06 | 6.147E-06 | 3233 |
| | 111.7 | 93 | 1.586E-06 | 6.821E-06 | 3235 |
| | 112.7 | 78 | 1.325E-06 | 5.698E-06 | 3237 |
| | 113.7 | 63 | 1.081E-06 | 4.649E-06 | 3238 |
| | 114.6 | 49 | 8.375E-07 | 3.601E-06 | 3240 |
| | 115.6 | 26 | 4.544E-07 | 1.954E-06 | 3241 |
| | 116.6 | 42 | 7.156E-07 | 3.077E-06 | 3243 |
| | 117.6 | 16 | 2.751E-07 | 1.183E-06 | 3245 |
| | 118.6 | 4 | 7.139E-08 | 3.070E-07 | 3246 |
| | 119.5 | 2 | 3.831E-08 | 1.647E-07 | 3248 |

CROSSWIND INTEGRATED= 1.148E-03 SEC/SQ.M  4.936E-03 1/M



V5 1202939

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 5 102.0 | .4 | 489 | 2.637E-07 | 1.134E-06 | 200 |
| 8 102.0 | .8 | 1226 | 6.612E-07 | 2.843E-06 | 200 |
| 102.0 | 1.5 | 1968 | 1.061E-06 | 4.562E-06 | 200 |
| 102.0 | 2.5 | 4446 | 2.397E-06 | 1.031E-05 | 200 |
| 102.0 | 4.0 | 7836 | 4.225E-06 | 1.817E-05 | 200 |
| 102.0 | 5.5 | 11888 | 6.409E-06 | 2.756E-05 | 200 |
| 102.0 | 7.0 | 20652 | 1.113E-05 | 4.787E-05 | 200 |
| 102.0 | 8.5 | 33609 | 1.812E-05 | 7.791E-05 | 200 |
| 102.0 | 10.0 | 54478 | 2.937E-05 | 1.263E-04 | 200 |
| 102.0 | 13.0 | 67057 | 3.615E-05 | 1.554E-04 | 200 |
| 102.0 | 16.0 | 65712 | 3.542E-05 | 1.523E-04 | 200 |
| 102.0 | 19.0 | 124288 | 6.700E-05 | 2.881E-04 | 200 |
| 102.0 | 22.0 | 97247 | 5.242E-05 | 2.254E-04 | 200 |
| 102.0 | 25.0 | 93224 | 5.026E-05 | 2.161E-04 | 200 |
| 102.0 | 28.0 | 46612 | 2.513E-05 | 1.081E-04 | 200 |
| 102.0 | 31.0 | 44495 | 2.399E-05 | 1.031E-04 | 200 |
| 6 102.0 | 32.8 | 13833 | 7.457E-06 | 3.207E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 5 110.0 | .4 | 1161 | 6.261E-07 | 2.692E-06 | 200 |
| 110.0 | .8 | 1597 | 8.613E-07 | 3.704E-06 | 200 |
| 110.0 | 1.5 | 2128 | 1.148E-06 | 4.935E-06 | 200 |
| 5 110.0 | 2.5 | 1186 | 6.396E-07 | 2.750E-06 | 200 |
| 110.0 | 4.0 | 4348 | 2.343E-06 | 1.003E-05 | 200 |
| 110.0 | 5.5 | 5869 | 3.164E-06 | 1.361E-05 | 200 |
| 110.0 | 7.0 | 11052 | 5.956E-06 | 2.562E-05 | 200 |
| 110.0 | 8.5 | 22737 | 1.226E-05 | 5.271E-05 | 200 |
| 110.0 | 10.0 | 34852 | 1.879E-05 | 8.079E-05 | 200 |
| 110.0 | 13.0 | 66067 | 3.561E-05 | 1.531E-04 | 200 |
| 110.0 | 16.0 | 110867 | 5.978E-05 | 2.570E-04 | 200 |
| 110.0 | 19.0 | 157124 | 8.470E-05 | 3.642E-04 | 200 |
| 110.0 | 22.0 | 229131 | 1.235E-04 | 5.311E-04 | 200 |
| 110.0 | 25.0 | 293105 | 1.246E-04 | 5.357E-04 | 200 |
| 110.0 | 28.0 | 180628 | 9.737E-05 | 4.187E-04 | 200 |
| 110.0 | 31.0 | 204245 | 1.101E-04 | 4.735E-04 | 200 |
| 110.0 | 32.8 | 101262 | 5.459E-05 | 2.347E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 108 | 5.861E-08 | 2.520E-07 | 200 |
| 118.0 | .8 | 139 | 7.505E-08 | 3.227E-07 | 200 |
| 118.0 | 1.5 | 43 | 2.320E-08 | 9.975E-08 | 200 |
| 118.0 | 2.5 | 81 | 4.373E-08 | 1.880E-07 | 200 |
| 118.0 | 4.0 | 332 | 1.795E-07 | 7.718E-07 | 200 |
| 118.0 | 5.5 | 571 | 3.083E-07 | 1.326E-06 | 200 |
| 118.0 | 7.0 | 1206 | 6.502E-07 | 2.796E-06 | 200 |
| 118.0 | 8.5 | 2032 | 1.096E-06 | 4.712E-06 | 200 |
| 118.0 | 10.0 | 2661 | 1.435E-06 | 6.169E-06 | 200 |
| 118.0 | 13.0 | 5215 | 2.811E-06 | 1.209E-05 | 200 |
| 118.0 | 16.0 | 12429 | 6.701E-06 | 2.881E-05 | 200 |
| 118.0 | 19.0 | 19468 | 1.051E-05 | 4.517E-05 | 200 |
| 118.0 | 22.0 | 24563 | 1.324E-05 | 5.694E-05 | 200 |
| 118.0 | 25.0 | 29469 | 1.589E-05 | 6.831E-05 | 200 |
| 118.0 | 28.0 | 34761 | 1.874E-05 | 8.058E-05 | 200 |
| 118.0 | 31.0 | 42472 | 2.290E-05 | 9.845E-05 | 200 |
| 118.0 | 32.8 | 21264 | 1.146E-05 | 4.929E-05 | 200 |

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 5 102.0 | .4 | 55 | 9.355E-07 | 4.023E-06 | 200 |
| 8 102.0 | .8 | 71 | 1.207E-06 | 5.190E-06 | 200 |
| 102.0 | 1.5 | 47 | 8.087E-07 | 3.478E-06 | 200 |
| 102.0 | 2.5 | 21 | 3.561E-07 | 1.531E-06 | 200 |
| 102.0 | 4.0 | 72 | 1.225E-06 | 5.268E-06 | 200 |
| 102.0 | 5.5 | 132 | 2.239E-06 | 9.628E-06 | 200 |
| 102.0 | 7.0 | 185 | 3.144E-06 | 1.352E-05 | 200 |
| 102.0 | 8.5 | 345 | 5.860E-06 | 2.520E-05 | 200 |
| 102.0 | 10.0 | 441 | 7.490E-06 | 3.221E-05 | 200 |
| 102.0 | 13.0 | 805 | 1.365E-05 | 5.868E-05 | 200 |
| 102.0 | 16.0 | 719 | 1.220E-05 | 5.245E-05 | 200 |
| 102.0 | 19.0 | 1595 | 2.704E-05 | 1.163E-04 | 200 |
| 102.0 | 22.0 | 1702 | 2.885E-05 | 1.241E-04 | 200 |
| 102.0 | 25.0 | 1453 | 2.463E-05 | 1.059E-04 | 200 |
| 102.0 | 28.0 | 730 | 1.238E-05 | 5.323E-05 | 200 |
| 102.0 | 31.0 | 516 | 8.757E-06 | 3.766E-05 | 200 |
| 6 102.0 | 32.8 | 399 | 6.766E-06 | 2.909E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 5 110.0 | .4 | 51 | 8.811E-07 | 3.789E-06 | 200 |
| 110.0 | .8 | 38 | 6.456E-07 | 2.777E-06 | 200 |
| 110.0 | 1.5 | 21 | 3.561E-07 | 1.531E-06 | 200 |
| 5 110.0 | 2.5 | 12 | 2.052E-07 | 8.824E-07 | 200 |
| 110.0 | 4.0 | 28 | 4.828E-07 | 2.076E-06 | 200 |
| 110.0 | 5.5 | 35 | 6.096E-07 | 2.621E-06 | 200 |
| 110.0 | 7.0 | 77 | 1.316E-06 | 5.657E-06 | 200 |
| 110.0 | 8.5 | 199 | 3.386E-06 | 1.456E-05 | 200 |
| 110.0 | 10.0 | 278 | 4.714E-06 | 2.027E-05 | 200 |
| 110.0 | 13.0 | 708 | 1.202E-05 | 5.167E-05 | 200 |
| 110.0 | 16.0 | 1488 | 2.573E-05 | 1.085E-04 | 200 |
| 110.0 | 19.0 | 1595 | 2.704E-05 | 1.163E-04 | 200 |
| 110.0 | 22.0 | 2770 | 4.696E-05 | 2.019E-04 | 200 |
| 110.0 | 25.0 | 2877 | 4.877E-05 | 2.097E-04 | 200 |
| 110.0 | 28.0 | 2841 | 4.817E-05 | 2.071E-04 | 200 |
| 110.0 | 31.0 | 2806 | 4.756E-05 | 2.045E-04 | 200 |
| 110.0 | 32.8 | 1951 | 3.308E-05 | 1.422E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 0 | 0. | 0. | 200 |
| 118.0 | .8 | 2 | 3.621E-08 | 1.557E-07 | 200 |
| 118.0 | 1.5 | 0 | 0. | 0. | 200 |
| 118.0 | 2.5 | 0 | 0. | 0. | 200 |
| 118.0 | 4.0 | 0 | 0. | 0. | 200 |
| 118.0 | 5.5 | 0 | 0. | 0. | 200 |
| 118.0 | 7.0 | 1 | 3.016E-08 | 1.298E-07 | 200 |
| 118.0 | 8.5 | 2 | 4.828E-08 | 2.076E-07 | 200 |
| 118.0 | 10.0 | 11 | 1.931E-07 | 8.305E-07 | 200 |
| 118.0 | 13.0 | 32 | 5.552E-07 | 2.388E-06 | 200 |
| 118.0 | 16.0 | 73 | 1.243E-06 | 5.346E-06 | 200 |
| 118.0 | 19.0 | 135 | 2.294E-06 | 9.886E-06 | 200 |
| 118.0 | 22.0 | 167 | 2.843E-06 | 1.222E-05 | 200 |
| 118.0 | 25.0 | 238 | 4.050E-06 | 1.741E-05 | 200 |
| 118.0 | 28.0 | 345 | 5.860E-06 | 2.520E-05 | 200 |
| 118.0 | 31.0 | 292 | 4.955E-06 | 2.131E-05 | 200 |
| 118.0 | 32.8 | 249 | 4.231E-06 | 1.819E-05 | 200 |

1202910



V

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 126.0 | .4 | 2 | 1.430E-09 | 6.147E-09 | 200 |
| 0 126.0 | .8 | 0 | 0. | 0. | 200 |
| 8 126.0 | 1.5 | 0 | 0. | 0. | 200 |
| 126.0 | 2.5 | 145 | 7.831E-08 | 3.367E-07 | 200 |
| 126.0 | 4.0 | 48 | 2.627E-08 | 1.130E-07 | 200 |
| 126.0 | 5.5 | 56 | 3.065E-08 | 1.318E-07 | 200 |
| 126.0 | 7.0 | 50 | 2.702E-08 | 1.162E-07 | 200 |
| 126.0 | 8.5 | 24 | 1.328E-08 | 5.710E-08 | 200 |
| 126.0 | 10.0 | 20 | 1.097E-08 | 4.717E-08 | 200 |
| 126.0 | 13.0 | 23 | 1.265E-08 | 5.440E-08 | 200 |
| 126.0 | 16.0 | 40 | 2.193E-08 | 9.430E-08 | 200 |
| 126.0 | 19.0 | 17 | 9.285E-09 | 3.992E-08 | 200 |
| 126.0 | 22.0 | 10 | 5.605E-09 | 2.410E-08 | 200 |
| 126.0 | 25.0 | 12 | 6.970E-09 | 2.997E-08 | 200 |
| 126.0 | 28.0 | 0 | 3.894E-10 | 1.677E-09 | 200 |
| 126.0 | 31.0 | 21 | 1.155E-08 | 4.965E-08 | 200 |
| 126.0 | 32.8 | 15 | 8.110E-09 | 3.487E-08 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 126.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 134.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 134.0 | .4 | 0 | 0. | 0. | 200 |

1202911



V5

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 105.0 | .3 | 4161 | 2.243E-06 | 9.646E-06 | 820 |
| 105.0 | .5 | 15676 | 8.451E-06 | 3.634E-05 | 820 |
| 105.0 | 1.1 | 11858 | 6.393E-06 | 2.749E-05 | 820 |
| E 105.0 | 1.5 | 15911 | 8.578E-06 | 3.688E-05 | 820 |
| 105.0 | 2.1 | 19797 | 1.067E-05 | 4.589E-05 | 820 |
| 105.0 | 4.2 | 25932 | 1.398E-05 | 6.011E-05 | 820 |
| 105.0 | 6.3 | 25307 | 1.364E-05 | 5.866E-05 | 820 |
| 105.0 | 8.4 | 31347 | 1.690E-05 | 7.267E-05 | 820 |
| 105.0 | 10.5 | 31166 | 1.680E-05 | 7.225E-05 | 820 |
| 105.0 | 12.6 | 42903 | 2.313E-05 | 9.945E-05 | 820 |
| 105.0 | 14.7 | 29562 | 1.594E-05 | 6.853E-05 | 820 |
| 105.0 | 16.8 | 47453 | 2.558E-05 | 1.100E-04 | 820 |
| 105.0 | 21.0 | 41784 | 2.253E-05 | 9.686E-05 | 820 |
| 105.0 | 25.2 | 31437 | 1.695E-05 | 7.287E-05 | 820 |
| 105.0 | 29.4 | 23052 | 1.243E-05 | 5.344E-05 | 820 |
| 105.0 | 33.6 | 8810 | 4.750E-06 | 2.042E-05 | 820 |
| 105.0 | 37.8 | 4527 | 2.441E-06 | 1.050E-05 | 820 |
| 105.0 | 42.0 | 2782 | 1.500E-06 | 6.450E-06 | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 1793 | 9.670E-07 | 4.158E-06 | 833 |
| 112.6 | .5 | 1826 | 9.846E-07 | 4.234E-06 | 833 |
| 112.6 | 1.1 | 1714 | 9.244E-07 | 3.975E-06 | 833 |
| 112.6 | 1.5 | 1638 | 8.831E-07 | 3.797E-06 | 833 |
| 112.6 | 2.1 | 2736 | 1.475E-06 | 6.343E-06 | 833 |
| 112.6 | 4.2 | 3907 | 2.107E-06 | 9.058E-06 | 833 |
| 112.6 | 6.3 | 6015 | 3.243E-06 | 1.395E-05 | 833 |
| 112.6 | 8.4 | 12599 | 6.792E-06 | 2.921E-05 | 833 |
| 112.6 | 10.5 | 15881 | 8.562E-06 | 3.682E-05 | 833 |
| 112.6 | 12.6 | 15430 | 8.318E-06 | 3.577E-05 | 833 |
| 112.6 | 14.7 | 19177 | 1.034E-05 | 4.446E-05 | 833 |
| 112.6 | 16.8 | 26719 | 1.440E-05 | 6.194E-05 | 833 |
| 112.6 | 21.0 | 34717 | 1.872E-05 | 8.048E-05 | 833 |
| 112.6 | 25.2 | 47313 | 2.551E-05 | 1.097E-04 | 833 |
| 112.6 | 29.4 | 42070 | 2.268E-05 | 9.752E-05 | 833 |
| 112.6 | 33.6 | 39350 | 2.121E-05 | 9.122E-05 | 833 |
| M 112.6 | 37.8 | 1367 | 7.371E-07 | 3.170E-06 | 833 |
| 112.6 | 42.0 | 2070 | 1.116E-06 | 4.800E-06 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 120.2 | .3 | 0 | 0. | 0. | 845 |
| E 120.2 | .5 | 0 | 0. | 0. | 845 |
| E 120.2 | 1.1 | 0 | 0. | 0. | 845 |
| E 120.2 | 1.5 | 0 | 0. | 0. | 845 |
| E 120.2 | 2.1 | 0 | 0. | 0. | 845 |
| 120.2 | 4.2 | 21 | 1.149E-08 | 4.943E-08 | 845 |
| E 120.2 | 6.3 | 0 | 0. | 0. | 845 |
| 120.2 | 8.4 | 0 | 0. | 0. | 845 |
| E 120.2 | 10.5 | 0 | 0. | 0. | 845 |
| E 120.2 | 12.6 | 0 | 0. | 0. | 845 |
| E 120.2 | 14.7 | 0 | 0. | 0. | 845 |
| 120.2 | 16.8 | 22 | 1.220E-08 | 5.244E-08 | 845 |
| 120.2 | 21.0 | 50 | 2.730E-08 | 1.174E-07 | 845 |
| 120.2 | 25.2 | 98 | 5.285E-08 | 2.273E-07 | 845 |
| 120.2 | 29.4 | 54 | 2.962E-08 | 1.274E-07 | 845 |
| 120.2 | 33.6 | 287 | 1.552E-07 | 6.676E-07 | 845 |
| 120.2 | 37.8 | 204 | 1.100E-07 | 4.731E-07 | 845 |
| 120.2 | 42.0 | 46 | 2.513E-08 | 1.081E-07 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 127.7 | .3 | 0 | 0. | 0. | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 135.0 | .3 | 0 | 0. | 0. | 867 |

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 105.0 | .3 | 71 | 1.220E-06 | 5.247E-06 | 820 |
| 105.0 | .5 | 355 | 6.019E-06 | 2.588E-05 | 820 |
| 105.0 | 1.1 | 313 | 5.318E-06 | 2.287E-05 | 820 |
| 105.0 | 1.5 | 355 | 6.019E-06 | 2.588E-05 | 820 |
| 105.0 | 2.1 | 396 | 6.720E-06 | 2.889E-05 | 820 |
| 105.0 | 4.2 | 479 | 8.121E-06 | 3.492E-05 | 820 |
| 105.0 | 6.3 | 530 | 8.996E-06 | 3.868E-05 | 820 |
| 105.0 | 8.4 | 654 | 1.110E-05 | 4.772E-05 | 820 |
| 105.0 | 10.5 | 799 | 1.355E-05 | 5.827E-05 | 820 |
| 105.0 | 12.6 | 892 | 1.513E-05 | 6.504E-05 | 820 |
| 105.0 | 14.7 | 861 | 1.460E-05 | 6.278E-05 | 820 |
| 105.0 | 16.8 | 851 | 1.443E-05 | 6.203E-05 | 820 |
| 105.0 | 21.0 | 992 | 1.682E-05 | 7.232E-05 | 820 |
| 105.0 | 25.2 | 854 | 1.448E-05 | 6.228E-05 | 820 |
| 105.0 | 29.4 | 551 | 9.347E-06 | 4.019E-05 | 820 |
| 105.0 | 33.6 | 344 | 5.844E-06 | 2.513E-05 | 820 |
| 105.0 | 37.8 | 176 | 2.983E-06 | 1.283E-05 | 820 |
| 105.0 | 42.0 | 93 | 1.582E-06 | 6.803E-06 | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 28 | 4.846E-07 | 2.084E-06 | 833 |
| 112.6 | .5 | 32 | 5.546E-07 | 2.385E-06 | 833 |
| 112.6 | 1.1 | 28 | 4.846E-07 | 2.084E-06 | 833 |
| 112.6 | 1.5 | 39 | 6.772E-07 | 2.912E-06 | 833 |
| 112.6 | 2.1 | 35 | 6.072E-07 | 2.611E-06 | 833 |
| 112.6 | 4.2 | 62 | 1.063E-06 | 4.569E-06 | 833 |
| 112.6 | 6.3 | 107 | 1.816E-06 | 7.807E-06 | 833 |
| 112.6 | 8.4 | 148 | 2.516E-06 | 1.082E-05 | 833 |
| 112.6 | 10.5 | 241 | 4.092E-06 | 1.760E-05 | 833 |
| 112.6 | 12.6 | 303 | 5.143E-06 | 2.212E-05 | 833 |
| 112.6 | 14.7 | 396 | 6.720E-06 | 2.889E-05 | 833 |
| L 112.6 | 16.8 | 0 | 0. | 0. | 833 |
| 112.6 | 21.0 | 644 | 1.092E-05 | 4.697E-05 | 833 |
| 112.6 | 25.2 | 747 | 1.267E-05 | 5.450E-05 | 833 |
| 112.6 | 29.4 | 789 | 1.337E-05 | 5.751E-05 | 833 |
| 112.6 | 33.6 | 789 | 1.337E-05 | 5.751E-05 | 833 |
| L 112.6 | 37.8 | 0 | 0. | 0. | 833 |
| 112.6 | 42.0 | 520 | 8.821E-06 | 3.793E-05 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | 16.8 | 7 | 1.284E-07 | 5.523E-07 | 845 |
| 120.2 | 21.0 | 1 | 1.751E-08 | 7.531E-08 | 845 |
| 120.2 | 25.2 | 0 | 5.838E-09 | 2.510E-08 | 845 |
| 120.2 | 29.4 | 0 | 0. | 0. | 845 |
| 120.2 | 33.6 | 3 | 5.838E-08 | 2.510E-07 | 845 |
| 120.2 | 37.8 | 3 | 5.254E-08 | 2.259E-07 | 845 |
| 120.2 | 42.0 | 2 | 4.670E-08 | 2.008E-07 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 127.7 | .3 | 0 | 0. | 0. | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 135.0 | .3 | 0 | 0. | 0. | 867 |

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 101.6 | .2 | 9257 | 4.991E-06 | 2.146E-05 | 1617 |
| 101.6 | .4 | 10078 | 5.433E-06 | 2.336E-05 | 1617 |
| 101.6 | .8 | 10607 | 5.718E-06 | 2.459E-05 | 1617 |
| 101.6 | 1.5 | 7942 | 4.282E-06 | 1.841E-05 | 1617 |
| 101.6 | 1.6 | 14978 | 8.075E-06 | 3.472E-05 | 1617 |
| 101.6 | 3.1 | 7661 | 4.130E-06 | 1.776E-05 | 1617 |
| 101.6 | 6.2 | 4676 | 2.521E-06 | 1.084E-05 | 1617 |
| 101.6 | 9.3 | 7875 | 4.244E-06 | 1.826E-05 | 1617 |
| 101.6 | 12.4 | 3974 | 2.142E-06 | 9.213E-06 | 1617 |
| 101.6 | 15.5 | 4361 | 2.351E-06 | 1.011E-05 | 1617 |
| 101.6 | 18.6 | 3666 | 1.977E-06 | 8.500E-06 | 1617 |
| 101.6 | 21.7 | 2529 | 1.363E-06 | 5.863E-06 | 1617 |
| 101.6 | 24.8 | 1922 | 1.036E-06 | 4.456E-06 | 1617 |
| 101.6 | 31.0 | 759 | 4.097E-07 | 1.762E-06 | 1617 |
| 101.6 | 37.2 | 341 | 1.840E-07 | 7.913E-07 | 1617 |
| 101.6 | 43.4 | 164 | 8.868E-08 | 3.813E-07 | 1617 |
| 101.6 | 49.6 | 28 | 1.542E-08 | 6.630E-08 | 1617 |
| 101.6 | 55.8 | 0 | 0. | 0. | 1617 |
| 101.6 | 62.0 | 0 | 4.059E-10 | 1.745E-09 | 1617 |

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 101.6 | .2 | 84 | 1.428E-06 | 6.142E-06 | 1617 |
| 101.6 | .4 | 68 | 1.159E-06 | 4.983E-06 | 1617 |
| 101.6 | .8 | 72 | 1.236E-06 | 5.314E-06 | 1617 |
| 101.6 | 1.5 | 206 | 3.507E-06 | 1.508E-05 | 1617 |
| 101.6 | 1.6 | 70 | 1.197E-06 | 5.149E-06 | 1617 |
| 101.6 | 3.1 | 86 | 1.467E-06 | 6.308E-06 | 1617 |
| 101.6 | 6.2 | 102 | 1.736E-06 | 7.466E-06 | 1617 |
| 101.6 | 9.3 | 100 | 1.698E-06 | 7.301E-06 | 1617 |
| 101.6 | 12.4 | 93 | 1.582E-06 | 6.804E-06 | 1617 |
| 101.6 | 15.5 | 70 | 1.197E-06 | 5.149E-06 | 1617 |
| 101.6 | 18.6 | 66 | 1.126E-06 | 4.842E-06 | 1617 |
| 101.6 | 21.7 | 45 | 7.739E-07 | 3.328E-06 | 1617 |
| 101.6 | 24.8 | 31 | 5.390E-07 | 2.318E-06 | 1617 |
| 101.6 | 31.0 | 15 | 2.616E-07 | 1.126E-06 | 1617 |
| 101.6 | 37.2 | 2 | 4.235E-08 | 1.821E-07 | 1617 |
| 101.6 | 43.4 | 0 | 0. | 0. | 1617 |
| 101.6 | 49.6 | 0 | 0. | 0. | 1617 |
| 101.6 | 55.8 | 0 | 0. | 0. | 1617 |
| 101.6 | 62.0 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 109.5 | .2 | 4748 | 2.560E-06 | 1.101E-05 | 1630 |
| 109.5 | .4 | 4131 | 2.227E-06 | 9.576E-06 | 1630 |
| 109.5 | .8 | 4421 | 2.384E-06 | 1.025E-05 | 1630 |
| 109.5 | 1.5 | 4280 | 2.308E-06 | 9.923E-06 | 1630 |
| 109.5 | 1.6 | 4328 | 2.333E-06 | 1.003E-05 | 1630 |
| 109.5 | 3.1 | 4392 | 2.368E-06 | 1.018E-05 | 1630 |
| S 109.5 | 6.2 | 4916 | 2.650E-06 | 1.140E-05 | 1630 |
| 109.5 | 9.3 | 8756 | 4.721E-06 | 2.030E-05 | 1630 |
| 109.5 | 12.4 | 7743 | 4.175E-06 | 1.795E-05 | 1630 |
| 109.5 | 15.5 | 7661 | 4.130E-06 | 1.776E-05 | 1630 |
| S 109.5 | 18.6 | 11880 | 6.405E-06 | 2.754E-05 | 1630 |
| S 109.5 | 21.7 | 14575 | 7.858E-06 | 3.379E-05 | 1630 |
| W 109.5 | 24.8 | 14172 | 7.640E-06 | 3.285E-05 | 1630 |
| W 109.5 | 31.0 | 16067 | 8.662E-06 | 3.724E-05 | 1630 |
| W 109.5 | 37.2 | 8155 | 4.396E-06 | 1.890E-05 | 1630 |
| W 109.5 | 43.4 | 4468 | 2.409E-06 | 1.036E-05 | 1630 |
| W 109.5 | 49.6 | 1752 | 9.450E-07 | 4.063E-06 | 1630 |
| W 109.5 | 55.8 | 553 | 2.983E-07 | 1.283E-06 | 1630 |
| W 109.5 | 62.0 | 185 | 1.000E-07 | 4.311E-07 | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 109.5 | .2 | 36 | 6.199E-07 | 2.665E-06 | 1630 |
| 109.5 | .4 | 31 | 5.390E-07 | 2.318E-06 | 1630 |
| 109.5 | .8 | 31 | 5.390E-07 | 2.318E-06 | 1630 |
| 109.5 | 1.5 | 134 | 2.275E-06 | 9.784E-06 | 1630 |
| 109.5 | 1.6 | 33 | 5.621E-07 | 2.417E-06 | 1630 |
| 109.5 | 3.1 | 43 | 7.354E-07 | 3.162E-06 | 1630 |
| S 109.5 | 6.2 | 72 | 1.236E-06 | 5.314E-06 | 1630 |
| 109.5 | 9.3 | 91 | 1.544E-06 | 6.639E-06 | 1630 |
| 109.5 | 12.4 | 100 | 1.696E-06 | 7.301E-06 | 1630 |
| 109.5 | 15.5 | 150 | 2.545E-06 | 1.094E-05 | 1630 |
| S 109.5 | 18.6 | 181 | 3.084E-06 | 1.326E-05 | 1630 |
| S 109.5 | 21.7 | 179 | 3.045E-06 | 1.310E-05 | 1630 |
| W 109.5 | 24.8 | 172 | 2.930E-06 | 1.260E-05 | 1630 |
| W 109.5 | 31.0 | 168 | 2.853E-06 | 1.227E-05 | 1630 |
| W 109.5 | 37.2 | 343 | 5.817E-06 | 2.502E-05 | 1630 |
| W 109.5 | 43.4 | 63 | 1.082E-06 | 4.652E-06 | 1630 |
| W 109.5 | 49.6 | 20 | 3.542E-07 | 1.523E-06 | 1630 |
| W 109.5 | 55.8 | 8 | 1.425E-07 | 6.125E-07 | 1630 |
| W 109.5 | 62.0 | 3 | 5.390E-08 | 2.318E-07 | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 58 | 3.160E-08 | 1.359E-07 | 1643 |
| 117.3 | .4 | 29 | 1.596E-08 | 6.862E-08 | 1643 |
| 117.3 | .8 | 4 | 2.280E-09 | 9.803E-09 | 1643 |
| 117.3 | 1.5 | 38 | 2.052E-08 | 8.823E-08 | 1643 |
| 117.3 | 1.6 | 2 | 1.368E-09 | 5.882E-09 | 1643 |
| 117.3 | 3.1 | 85 | 4.614E-08 | 1.984E-07 | 1643 |
| 117.3 | 6.2 | 41 | 2.220E-08 | 9.545E-08 | 1643 |
| 117.3 | 9.3 | 352 | 1.890E-07 | 8.163E-07 | 1643 |
| S 117.3 | 12.4 | 224 | 1.209E-07 | 5.201E-07 | 1643 |
| 117.3 | 15.5 | 468 | 2.524E-07 | 1.085E-06 | 1643 |
| 117.3 | 18.6 | 750 | 4.047E-07 | 1.740E-06 | 1643 |
| 117.3 | 21.7 | 1605 | 8.655E-07 | 3.722E-06 | 1643 |
| 117.3 | 24.8 | 1634 | 8.809E-07 | 3.788E-06 | 1643 |
| 117.3 | 31.0 | 3815 | 2.057E-06 | 8.844E-06 | 1643 |
| 117.3 | 37.2 | 3136 | 1.691E-06 | 7.272E-06 | 1643 |
| 117.3 | 43.4 | 2974 | 1.604E-06 | 6.896E-06 | 1643 |
| 117.3 | 49.6 | 3516 | 1.896E-06 | 8.151E-06 | 1643 |
| M 117.3 | 55.8 | 1161 | 6.259E-07 | 2.691E-06 | 1643 |
| 117.3 | 62.0 | 721 | 3.888E-07 | 1.672E-06 | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 0 | 0. | 0. | 1643 |
| 117.3 | .4 | 1 | 1.925E-08 | 8.276E-08 | 1643 |
| 117.3 | .8 | 2 | 5.005E-08 | 2.152E-07 | 1643 |
| 117.3 | 1.5 | 0 | 0. | 0. | 1643 |
| 117.3 | 1.6 | 0 | 0. | 0. | 1643 |
| 117.3 | 3.1 | 0 | 0. | 0. | 1643 |
| 117.3 | 6.2 | 0 | 0. | 0. | 1643 |
| 117.3 | 9.3 | 0 | 0. | 0. | 1643 |
| S 117.3 | 12.4 | 0 | 0. | 0. | 1643 |
| 117.3 | 15.5 | 1 | 3.080E-08 | 1.324E-07 | 1643 |
| 117.3 | 18.6 | 7 | 1.271E-07 | 5.463E-07 | 1643 |
| 117.3 | 21.7 | 7 | 1.271E-07 | 5.463E-07 | 1643 |
| 117.3 | 24.8 | 12 | 2.118E-07 | 9.105E-07 | 1643 |
| 117.3 | 31.0 | 20 | 3.427E-07 | 1.473E-06 | 1643 |
| 117.3 | 37.2 | 27 | 4.582E-07 | 1.970E-06 | 1643 |
| 117.3 | 43.4 | 113 | 1.929E-06 | 8.294E-06 | 1643 |
| 117.3 | 49.6 | 30 | 5.159E-07 | 2.218E-06 | 1643 |
| L 117.3 | 55.8 | 0 | 0. | 0. | 1643 |
| 117.3 | 62.0 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 125.0 | .2 | 0 | 0. | 0. | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 125.0 | .2 | 0 | 0. | 0. | 1655 |

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V5

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 132.5 | .2 | 0 | 0. | 0. | 1665 |

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 99.8 | .2 | 726 | 3.917E-07 | 1.684E-06 | 3215 |
| 99.8 | .4 | 867 | 4.675E-07 | 2.010E-06 | 3215 |
| 99.8 | .8 | 479 | 2.583E-07 | 1.111E-06 | 3215 |
| 99.8 | 1.5 | 545 | 2.940E-07 | 1.264E-06 | 3215 |
| 99.8 | 1.6 | 807 | 4.352E-07 | 1.871E-06 | 3215 |
| 99.8 | 3.1 | 657 | 3.543E-07 | 1.523E-06 | 3215 |
| 99.8 | 6.2 | 657 | 3.547E-07 | 1.525E-06 | 3215 |
| 99.8 | 9.3 | 642 | 3.464E-07 | 1.490E-06 | 3215 |
| S 99.8 | 12.4 | 331 | 1.787E-07 | 7.685E-07 | 3215 |
| 99.8 | 15.5 | 203 | 1.094E-07 | 4.706E-07 | 3215 |
| 99.8 | 18.6 | 225 | 1.215E-07 | 5.223E-07 | 3215 |
| 99.8 | 21.7 | 116 | 6.269E-08 | 2.696E-07 | 3215 |
| 99.8 | 24.8 | 79 | 4.289E-08 | 1.844E-07 | 3215 |
| 99.8 | 31.0 | 67 | 3.629E-08 | 1.561E-07 | 3215 |
| 99.8 | 37.2 | 13 | 7.217E-09 | 3.103E-08 | 3215 |
| 99.8 | 43.4 | 14 | 7.630E-09 | 3.281E-08 | 3215 |
| 99.8 | 49.6 | 1 | 8.246E-10 | 3.547E-09 | 3215 |
| 99.8 | 55.8 | 0 | 0. | 0. | 3215 |
| 99.8 | 62.0 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 107.8 | .2 | 2840 | 1.531E-06 | 6.584E-06 | 3229 |
| 107.8 | .4 | 2362 | 1.273E-06 | 5.475E-06 | 3229 |
| 107.8 | .8 | 3129 | 1.687E-06 | 7.255E-06 | 3229 |
| S 107.8 | 1.5 | 1709 | 9.213E-07 | 3.962E-06 | 3229 |
| 107.8 | 1.6 | 2421 | 1.306E-06 | 5.614E-06 | 3229 |
| 107.8 | 3.1 | 1423 | 7.675E-07 | 3.300E-06 | 3229 |
| T 107.8 | 6.2 | 1287 | 6.939E-07 | 2.984E-06 | 3229 |
| S 107.8 | 9.3 | 2334 | 1.258E-06 | 5.411E-06 | 3229 |
| 107.8 | 12.4 | 2535 | 1.367E-06 | 5.877E-06 | 3229 |
| 107.8 | 15.5 | 2096 | 1.130E-06 | 4.860E-06 | 3229 |
| 107.8 | 18.6 | 2695 | 1.453E-06 | 6.249E-06 | 3229 |
| 107.8 | 21.7 | 2697 | 1.454E-06 | 6.252E-06 | 3229 |
| 107.8 | 24.8 | 1730 | 9.329E-07 | 4.011E-06 | 3229 |
| 107.8 | 31.0 | 919 | 4.955E-07 | 2.131E-06 | 3229 |
| 107.8 | 37.2 | 682 | 3.661E-07 | 1.563E-06 | 3229 |
| 107.8 | 43.4 | 300 | 1.619E-07 | 6.961E-07 | 3229 |
| 107.8 | 49.6 | 140 | 7.547E-08 | 3.245E-07 | 3229 |
| 107.8 | 55.8 | 83 | 4.475E-08 | 1.924E-07 | 3229 |
| 107.8 | 62.0 | 1 | 6.186E-10 | 2.660E-09 | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 115.6 | .2 | 2458 | 1.325E-06 | 5.698E-06 | 3241 |
| 115.6 | .4 | 3362 | 1.813E-06 | 7.796E-06 | 3241 |
| 115.6 | .8 | 2348 | 1.266E-06 | 5.445E-06 | 3241 |
| 115.6 | 1.5 | 2572 | 1.387E-06 | 5.962E-06 | 3241 |
| 115.6 | 1.6 | 4286 | 2.311E-06 | 9.937E-06 | 3241 |
| 115.6 | 3.1 | 3775 | 2.035E-06 | 8.751E-06 | 3241 |
| 115.6 | 6.2 | 4740 | 2.556E-06 | 1.099E-05 | 3241 |
| 115.6 | 9.3 | 5030 | 2.712E-06 | 1.166E-05 | 3241 |
| 115.6 | 12.4 | 2705 | 1.458E-06 | 6.271E-06 | 3241 |
| 115.6 | 15.5 | 4615 | 2.488E-06 | 1.070E-05 | 3241 |
| 115.6 | 18.6 | 5591 | 3.014E-06 | 1.296E-05 | 3241 |
| S 115.6 | 21.7 | 4713 | 2.541E-06 | 1.093E-05 | 3241 |
| 115.6 | 24.8 | 5897 | 3.179E-06 | 1.367E-05 | 3241 |
| 115.6 | 31.0 | 6688 | 3.606E-06 | 1.550E-05 | 3241 |
| 115.6 | 37.2 | 6387 | 3.443E-06 | 1.481E-05 | 3241 |
| 115.6 | 43.4 | 6005 | 3.237E-06 | 1.392E-05 | 3241 |
| 115.6 | 49.6 | 5178 | 2.791E-06 | 1.200E-05 | 3241 |
| 115.6 | 55.8 | 2215 | 1.194E-06 | 5.135E-06 | 3241 |
| 115.6 | 62.0 | 1436 | 7.743E-07 | 3.330E-06 | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 132.5 | .2 | 0 | 0. | 0. | 1665 |

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 99.8 | .2 | 14 | 2.490E-07 | 1.071E-06 | 3215 |
| 99.8 | .4 | 12 | 2.174E-07 | 9.134E-07 | 3215 |
| 99.8 | .8 | 10 | 1.863E-07 | 8.011E-07 | 3215 |
| Q 99.8 | 1.5 | 42 | 7.156E-07 | 3.077E-06 | 3215 |
| 99.6 | 1.6 | 10 | 1.706E-07 | 7.337E-07 | 3215 |
| 99.8 | 3.1 | 9 | 1.654E-07 | 7.113E-07 | 3215 |
| 99.8 | 6.2 | 10 | 1.706E-07 | 7.337E-07 | 3215 |
| 99.8 | 9.3 | 8 | 1.645E-07 | 6.214E-07 | 3215 |
| S 99.8 | 12.4 | 6 | 1.080E-07 | 4.642E-07 | 3215 |
| 99.8 | 15.5 | 3 | 5.920E-08 | 2.546E-07 | 3215 |
| 99.8 | 18.6 | 2 | 4.179E-08 | 1.797E-07 | 3215 |
| 99.8 | 21.7 | 1 | 2.786E-08 | 1.198E-07 | 3215 |
| 99.8 | 24.8 | 0 | 5.224E-09 | 2.246E-08 | 3215 |
| 99.8 | 31.0 | 0 | 0. | 0. | 3215 |
| 99.8 | 37.2 | 0 | 0. | 0. | 3215 |
| 99.8 | 43.4 | 0 | 0. | 0. | 3215 |
| 99.8 | 49.6 | 0 | 0. | 0. | 3215 |
| 99.8 | 55.8 | 0 | 0. | 0. | 3215 |
| E 99.8 | 62.0 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 107.8 | .2 | 28 | 4.893E-07 | 2.104E-06 | 3229 |
| 107.8 | .4 | 34 | 5.763E-07 | 2.478E-06 | 3229 |
| 107.8 | .8 | 32 | 5.589E-07 | 2.403E-06 | 3229 |
| Q 107.8 | 1.5 | 24 | 4.109E-07 | 1.767E-06 | 3229 |
| 107.8 | 1.6 | 23 | 4.022E-07 | 1.730E-06 | 3229 |
| 107.8 | 3.1 | 7 | 1.236E-07 | 5.316E-07 | 3229 |
| T 107.8 | 6.2 | 5 | 8.706E-08 | 3.744E-07 | 3229 |
| S 107.8 | 9.3 | 28 | 4.893E-07 | 2.104E-06 | 3229 |
| 107.8 | 12.4 | 26 | 4.544E-07 | 1.954E-06 | 3229 |
| 107.8 | 15.5 | 23 | 4.022E-07 | 1.730E-06 | 3229 |
| 107.8 | 18.6 | 27 | 4.719E-07 | 2.029E-06 | 3229 |
| 107.8 | 21.7 | 21 | 3.674E-07 | 1.580E-06 | 3229 |
| 107.8 | 24.8 | 18 | 3.169E-07 | 1.363E-06 | 3229 |
| 107.8 | 31.0 | 14 | 2.490E-07 | 1.071E-06 | 3229 |
| 107.8 | 37.2 | 8 | 1.497E-07 | 6.439E-07 | 3229 |
| 107.8 | 43.4 | 4 | 7.661E-08 | 3.294E-07 | 3229 |
| 107.8 | 49.6 | 1 | 2.438E-08 | 1.048E-07 | 3229 |
| 107.8 | 55.8 | 0 | 0. | 0. | 3229 |
| 107.8 | 62.0 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 115.6 | .2 | 31 | 5.415E-07 | 2.328E-06 | 3241 |
| 115.6 | .4 | 21 | 3.674E-07 | 1.580E-06 | 3241 |
| 115.6 | .8 | 23 | 4.022E-07 | 1.730E-06 | 3241 |
| 115.6 | 1.5 | 26 | 4.544E-07 | 1.954E-06 | 3241 |
| 115.6 | 1.6 | 50 | 8.549E-07 | 3.676E-06 | 3241 |
| 115.6 | 3.1 | 26 | 4.544E-07 | 1.954E-06 | 3241 |
| 115.6 | 6.2 | 27 | 4.719E-07 | 2.029E-06 | 3241 |
| 115.6 | 9.3 | 30 | 5.241E-07 | 2.254E-06 | 3241 |
| 115.6 | 12.4 | 3 | 5.224E-08 | 2.246E-07 | 3241 |
| 115.6 | 15.5 | 35 | 5.937E-07 | 2.553E-06 | 3241 |
| 115.6 | 18.6 | 29 | 5.067E-07 | 2.179E-06 | 3241 |
| S 115.6 | 21.7 | 26 | 4.544E-07 | 1.954E-06 | 3241 |
| 115.6 | 24.8 | 45 | 7.679E-07 | 3.302E-06 | 3241 |
| 115.6 | 31.0 | 45 | 7.679E-07 | 3.302E-06 | 3241 |
| 115.6 | 37.0 | 38 | 6.460E-07 | 2.778E-06 | 3241 |
| 115.6 | 43.0 | 40 | 6.800E-07 | 2.927E-06 | 3241 |
| 115.6 | 49.6 | 49 | 8.375E-07 | 3.601E-06 | 3241 |
| 115.6 | 55.8 | 27 | 4.719E-07 | 2.029E-06 | 3241 |
| 115.6 | 62.0 | 10 | 1.759E-07 | 7.562E-07 | 3241 |

1202914



V

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 123.4 | .2 | 2 | 1.516E-09 | 6.517E-09 | 3253 | N 123.4 | .2 | 0 | 0. | 0. | 3253 |
| 123.4 | 3.1 | 11 | 6.186E-09 | 2.660E-08 | 3253 | | | | | | |
| 123.4 | 12.4 | 16 | 8.661E-09 | 3.724E-08 | 3253 | | | | | | |
| 123.4 | 15.5 | 1 | 5.905E-10 | 2.539E-09 | 3253 | | | | | | |
| 123.4 | 18.6 | 0 | 0. | 0. | 3253 | | | | | | |
| 123.4 | 21.7 | 4 | 2.475E-09 | 1.064E-08 | 3253 | | | | | | |
| 123.4 | 31.0 | 4 | 2.268E-09 | 9.754E-09 | 3253 | | | | | | |
| 123.4 | 37.2 | 11 | 6.186E-09 | 2.660E-08 | 3253 | | | | | | |
| 123.4 | 43.4 | 9 | 5.155E-09 | 2.217E-08 | 3253 | | | | | | |
| 123.4 | 49.6 | 24 | 1.320E-08 | 5.675E-08 | 3253 | | | | | | |
| 123.4 | 55.8 | 40 | 2.206E-08 | 9.438E-08 | 3253 | | | | | | |
| 123.4 | 62.0 | 76 | 4.104E-08 | 1.765E-07 | 3253 | | | | | | |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS | AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N 131.2 | .2 | 0 | 0. | 0. | 3264 | N 131.2 | .2 | 0 | 0. | 0. | 3264 |

1202915



V5

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; TOWER SAMPLING ONLY AT 200M AND 800M. ALL THREE "GROUND-LEVEL" ARCS TRUNCATED ON NORTH. ALTHOUGH 6 OF 10 OPERATING TOWERS "HIT" BY KRYPTON, TRACER DISTRIBUTIONS ARE TRUNCATED AT TOPS.

TEST VS SEPTEMBER 5, 1973 0501 TO 0531 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 90.0 | 21 | 1.362E-07 | 5.944E-07 | 200 |
| | 92.0 | 34 | 2.189E-07 | 9.411E-07 | 200 |
| | 94.0 | 100 | 6.335E-07 | 2.724E-06 | 200 |
| | 96.0 | 107 | 6.796E-07 | 2.922E-06 | 200 |
| | 98.0 | 294 | 1.866E-06 | 8.024E-06 | 200 |
| | 100.0 | 21 | 1.382E-07 | 5.944E-07 | 200 |
| | 102.0 | 85 | 5.414E-07 | 2.329E-06 | 200 |
| | 104.0 | 431 | 2.730E-06 | 1.174E-05 | 200 |
| | 106.0 | 147 | 9.330E-07 | 4.012E-06 | 200 |
| | 108.0 | 318 | 2.016E-06 | 8.666E-06 | 200 |
| | 110.0 | 282 | 1.785E-06 | 7.677E-06 | 200 |
| | 112.0 | 63 | 4.032E-07 | 1.734E-06 | 200 |
| | 114.0 | 118 | 7.487E-07 | 3.220E-06 | 200 |
| | 116.0 | 1 | 1.152E-08 | 4.953E-08 | 200 |
| | 118.0 | 5 | 3.456E-08 | 1.486E-07 | 200 |

CROSSWIND INTEGRATED= 8.991E-05 SEC/SQ.M 3.866E-04 1/M

TEST VS SEPTEMBER 5, 1973 0501 TO 0531 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 101.1 | 476 | 3.029E-06 | 1.303E-05 | 813 |
| | 103.0 | 1364 | 8.639E-06 | 3.715E-05 | 816 |
| | 105.0 | 1370 | 8.674E-06 | 3.730E-05 | 820 |
| | 106.9 | 1636 | 1.036E-05 | 4.453E-05 | 823 |
| | 108.8 | 1049 | 6.625E-06 | 2.853E-05 | 826 |
| | 110.7 | 380 | 2.407E-06 | 1.045E-05 | 829 |
| | 112.6 | 356 | 2.258E-06 | 9.708E-06 | 833 |
| | 114.5 | 134 | 8.524E-07 | 3.665E-06 | 836 |
| L | 116.4 | 0 | 0. | 0. | 839 |
| | 118.3 | 109 | 6.911E-07 | 2.972E-06 | 842 |
| | 120.2 | 78 | 4.953E-07 | 2.130E-06 | 845 |
| | 122.1 | 25 | 1.614E-07 | 6.934E-07 | 848 |

CROSSWIND INTEGRATED= 1.2[illegible]E-05 SEC/SQ.M 5.237E-03 1/M

TEST VS SEPTEMBER 5, 1973 0501 TO 0531 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.3 M/SEC AT 26M

| | AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| B | 110.4 | 291 | 1.844E-06 | 7.965E-06 | 1632 |
| | 111.4 | 265 | 1.682E-06 | 5.597E-06 | 1633 |
| | 112.4 | 125 | 7.948E-07 | 3.418E-06 | 1635 |
| | 113.4 | 187 | 1.186E-06 | 5.102E-06 | 1637 |
| | 114.4 | 111 | 7.027E-07 | 3.021E-06 | 1638 |
| | 115.3 | 58 | 3.686E-07 | 1.585E-06 | 1640 |
| | 116.3 | 65 | 4.147E-07 | 1.783E-06 | 1641 |
| | 117.3 | 0 | 0. | 0. | 1643 |
| | 118.2 | 81 | 5.194E-07 | 2.229E-06 | 1644 |
| L | 119.2 | 0 | 0. | 0. | 1646 |
| | 120.2 | 7 | 4.608E-08 | 1.981E-07 | 1647 |
| | 121.2 | 3 | 2.304E-08 | 9.906E-08 | 1649 |

CROSSWIND INTEGRATED= 2.[illegible]E-06 SEC/SQ.M 1.741E-04 1/M

TOWER DATA FOLLOW....

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 102.0 | 1.5 | 85 | 5.414E-07 | 2.328E-05 | 200 |
| 102.0 | 4.0 | 653 | 4.135E-06 | 1.778E-05 | 200 |
| 102.0 | 7.0 | 1983 | 1.256E-05 | 5.399E-05 | 200 |
| 102.0 | 13.0 | 4941 | 3.127E-05 | 1.345E-04 | 200 |
| 102.0 | 19.0 | 11704 | 7.408E-05 | 3.185E-04 | 200 |
| 102.0 | 25.0 | 8321 | 5.266E-05 | 2.265E-04 | 200 |
| 102.0 | 32.8 | 2478 | 1.569E-05 | 6.746E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 110.0 | 1.5 | 262 | 1.785E-06 | 7.677E-06 | 200 |
| 110.0 | 4.0 | 111 | 7.027E-07 | 3.021E-06 | 200 |
| 110.0 | 7.0 | 449 | 2.845E-06 | 1.223E-05 | 200 |
| 110.0 | 13.0 | 7238 | 4.581E-05 | 1.970E-04 | 200 |
| 110.0 | 19.0 | 15639 | 9.896E-05 | 4.256E-04 | 200 |
| 110.0 | 25.0 | 24351 | 1.541E-04 | 6.627E-04 | 200 |
| L 110.0 | 32.8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | 1.5 | 5 | 3.456E-06 | 1.486E-07 | 200 |
| 118.0 | 4.0 | 74 | 4.723E-07 | 2.031E-06 | 200 |
| 118.0 | 7.0 | 154 | 9.791E-07 | 4.210E-06 | 200 |
| 118.0 | 13.0 | 414 | 2.626E-06 | 1.129E-05 | 200 |
| 118.0 | 19.0 | 1654 | 1.047E-05 | 4.502E-05 | 200 |
| 118.0 | 25.0 | 2644 | 1.674E-05 | 7.197E-05 | 200 |
| 118.0 | 32.8 | 2622 | 1.660E-05 | 7.138E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 126.0 | 1.5 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 134.0 | 1.5 | 0 | 0. | 0. | 200 |

1202917



V5

TOWER DATA FOLLOW....

TEST VS SEPTEMBER 5, 1973 0501 TO 0531 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 4.3 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 105.0 | 1.5 | 1370 | 8.674E-06 | 3.730E-05 | 820 |
| 105.0 | 5.0 | 778 | 4.930E-06 | 2.120E-05 | 820 |
| 105.0 | 12.0 | 2859 | 1.810E-05 | 7.781E-05 | 820 |
| 105.0 | 19.0 | 1916 | 1.213E-05 | 5.216E-05 | 820 |
| 105.0 | 26.0 | 2917 | 1.846E-05 | 7.940E-05 | 820 |
| 105.0 | 34.0 | 1350 | 8.547E-06 | 3.675E-05 | 820 |
| 105.0 | 42.0 | 254 | 1.613E-06 | 6.934E-06 | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | 1.5 | 356 | 2.258E-06 | 9.708E-06 | 833 |
| 112.6 | 5.0 | 440 | 2.788E-06 | 1.199E-05 | 833 |
| 112.6 | 12.0 | 1079 | 6.831E-06 | 2.937E-05 | 833 |
| 112.6 | 19.0 | 2009 | 1.272E-05 | 5.468E-05 | 833 |
| 112.6 | 26.0 | 3039 | 1.924E-05 | 8.272E-05 | 833 |
| 112.6 | 34.0 | 2755 | 1.744E-05 | 7.499E-05 | 833 |
| 112.6 | 42.0 | 1994 | 1.262E-05 | 5.429E-05 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | 1.5 | 78 | 4.953E-07 | 2.130E-06 | 845 |
| 120.2 | 5.0 | 41 | 2.649E-07 | 1.139E-06 | 845 |
| 120.2 | 12.0 | 0 | 0. | 0. | 845 |
| 120.2 | 19.0 | 92 | 5.875E-07 | 2.526E-06 | 845 |
| 120.2 | 26.0 | 69 | 4.377E-07 | 1.882E-06 | 845 |
| 120.2 | 34.0 | 5 | 3.456E-08 | 1.486E-07 | 845 |
| 120.2 | 42.0 | 0 | 0. | 0. | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 127.7 | 1.5 | 0 | 0. | 0. | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 135.0 | 1.5 | 0 | 0. | 0. | 867 |

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND DISTRIBUTION OF TRACER.
TOWERS TRUNCATE TOP OF VERTICAL DISTRIBUTION, BUT EXTRAPOLATION WOULD NOT BE UNREASONABLE.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 102.0 | 0 | 0. | 0. | 200 |
| 104.0 | 22 | 9.779E-09 | 6.259E-08 | 200 |
| 106.0 | 12 | 5.334E-09 | 3.414E-08 | 200 |
| 108.0 | 229 | 9.912E-08 | 6.344E-07 | 200 |
| 110.0 | 2357 | 1.016E-06 | 6.503E-06 | 200 |
| 112.0 | 8220 | 3.543E-06 | 2.266E-05 | 200 |
| 114.0 | 15076 | 6.499E-06 | 4.159E-05 | 200 |
| 116.0 | 14767 | 6.365E-06 | 4.074E-05 | 200 |
| 118.0 | 12933 | 5.575E-06 | 3.568E-05 | 200 |
| 120.0 | 9823 | 4.234E-06 | 2.710E-05 | 200 |
| 122.0 | 10899 | 4.698E-06 | 3.007E-05 | 200 |
| 124.0 | 7846 | 3.382E-06 | 2.165E-05 | 200 |
| 126.0 | 3301 | 1.423E-06 | 9.106E-06 | 200 |
| 128.0 | 750 | 3.236E-07 | 2.071E-06 | 200 |
| 130.0 | 229 | 9.912E-08 | 6.344E-07 | 200 |
| 132.0 | 5 | 2.223E-09 | 1.422E-08 | 200 |
| 134.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 2.602E-04 SEC/SQ.M 1.665E-03 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 0 | 0. | 0. | 200 |
| 108.0 | 0 | 0. | 0. | 200 |
| 110.0 | 1 | 2.252E-08 | 1.441E-07 | 200 |
| 112.0 | 7 | 1.284E-07 | 8.216E-07 | 200 |
| 114.0 | 22 | 3.716E-07 | 2.378E-06 | 200 |
| 116.0 | 31 | 5.270E-07 | 3.373E-06 | 200 |
| 118.0 | 15 | 2.635E-07 | 1.686E-06 | 200 |
| 120.0 | 29 | 4.932E-07 | 3.157E-06 | 200 |
| 122.0 | 37 | 6.306E-07 | 4.036E-06 | 200 |
| 124.0 | 32 | 5.405E-07 | 3.459E-06 | 200 |
| 126.0 | 22 | 3.716E-07 | 2.378E-06 | 200 |
| 128.0 | 1 | 2.027E-08 | 1.297E-07 | 200 |
| 130.0 | 0 | 0. | 0. | 200 |
| 132.0 | 1 | 2.928E-08 | 1.874E-07 | 200 |

CROSSWIND INTEGRATED= 2.373E-05 SEC/SQ.M 1.519E-04 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 1.664E-10 | 1.068E-09 | 400 |
| 90.0 | 1 | 6.673E-10 | 4.271E-09 | 400 |
| W 94.0 | 3 | 1.501E-09 | 9.609E-09 | 400 |
| W 98.0 | 30 | 1.335E-08 | 8.542E-08 | 400 |
| W 102.0 | 0 | 3.337E-10 | 2.135E-09 | 400 |
| E 106.0 | 45 | 1.952E-08 | 1.249E-07 | 400 |
| 110.0 | 907 | 3.912E-07 | 2.504E-06 | 400 |
| 114.0 | 12716 | 5.481E-06 | 3.508E-05 | 400 |
| 118.0 | 6268 | 2.702E-06 | 1.729E-05 | 400 |
| 122.0 | 10418 | 4.491E-06 | 2.874E-05 | 400 |
| 126.0 | 4190 | 1.806E-06 | 1.156E-05 | 400 |
| 130.0 | 168 | 7.257E-08 | 4.645E-07 | 400 |
| 134.0 | 27 | 1.201E-08 | 7.688E-08 | 400 |
| 138.0 | 13 | 5.672E-09 | 3.630E-08 | 400 |
| 142.0 | 6 | 2.669E-09 | 1.708E-08 | 400 |
| 146.0 | 4 | 1.835E-09 | 1.174E-08 | 400 |

CROSSWIND INTEGRATED= 4.189E-04 SEC/SQ.M 2.681E-03 1/M

**RHODAMINE B**

**400M ARC DATA**

**MISSING**

1202919



V6

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 105.0 | 0 | 0. | 0. | 820 |
| 106.9 | 1 | 8.600E-10 | 5.504E-09 | 823 |
| E 108.8 | 86 | 3.741E-08 | 2.394E-07 | 826 |
| E 110.7 | 1194 | 5.147E-07 | 3.294E-06 | 829 |
| E 112.6 | 8077 | 3.482E-06 | 2.228E-05 | 833 |
| E 114.5 | 27928 | 1.204E-05 | 7.704E-05 | 836 |
| E 116.4 | 35509 | 1.531E-05 | 9.796E-05 | 839 |
| 118.3 | 34880 | 1.503E-05 | 9.622E-05 | 842 |
| 120.2 | 21793 | 9.394E-06 | 6.012E-05 | 845 |
| 122.1 | 24218 | 1.044E-05 | 6.681E-05 | 848 |
| 124.0 | 21529 | 9.280E-06 | 5.939E-05 | 851 |
| 125.8 | 15227 | 6.564E-06 | 4.201E-05 | 854 |
| 127.7 | 2418 | 1.042E-06 | 6.671E-06 | 857 |
| 129.5 | 16 | 7.310E-09 | 4.678E-08 | 859 |
| 131.4 | 0 | 0. | 0. | 862 |

CROSSWIND INTEGRATED= 2.313E-03 SEC/SQ.M 1.480E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.9 | 2 | 3.922E-08 | 2.510E-07 | 823 |
| X 108.8 | 1 | 3.268E-08 | 2.092E-07 | 826 |
| E 110.7 | 4 | 7.407E-08 | 4.741E-07 | 829 |
| E 112.6 | 50 | 8.497E-07 | 5.438E-06 | 833 |
| E 114.5 | 580 | 9.673E-06 | 6.191E-05 | 836 |
| E 116.4 | 188 | 3.137E-06 | 2.008E-05 | 839 |
| 118.3 | 593 | 9.891E-06 | 6.330E-05 | 842 |
| 120.2 | 384 | 6.405E-06 | 4.099E-05 | 845 |
| 122.1 | 282 | 4.706E-06 | 3.012E-05 | 848 |
| 124.0 | 360 | 6.013E-06 | 3.848E-05 | 851 |
| 125.8 | 180 | 3.007E-06 | 1.924E-05 | 854 |
| 127.7 | 29 | 4.902E-07 | 3.137E-06 | 857 |
| 129.5 | 0 | 0. | 0. | 859 |

CROSSWIND INTEGRATED= 1.233E-03 SEC/SQ.M 7.869E-03 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.0 | 0 | 1.661E-10 | 1.191E-09 | 1200 |
| 108.0 | 1 | 4.653E-10 | 2.978E-09 | 1200 |
| 110.0 | 87 | 3.778E-08 | 2.418E-07 | 1200 |
| 112.0 | 1905 | 8.215E-07 | 5.258E-06 | 1200 |
| 114.0 | 14001 | 6.035E-06 | 3.862E-05 | 1200 |
| 116.0 | 27985 | 1.206E-05 | 7.720E-05 | 1200 |
| 118.0 | 28755 | 1.239E-05 | 7.933E-05 | 1200 |
| 120.0 | 16152 | 6.962E-06 | 4.456E-05 | 1200 |
| 122.0 | 17682 | 7.622E-06 | 4.878E-05 | 1200 |
| 124.0 | 14293 | 6.161E-06 | 3.943E-05 | 1200 |
| 126.0 | 4543 | 1.958E-06 | 1.253E-05 | 1200 |
| S 128.0 | 101 | 4.373E-08 | 2.799E-07 | 1200 |
| 130.0 | 3 | 1.396E-09 | 8.933E-09 | 1200 |
| 132.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 2.266E-03 SEC/SQ.M 1.450E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 108.0 | 0 | 0. | 0. | 1200 |
| 110.0 | 1 | 3.044E-08 | 1.948E-07 | 1200 |
| 112.0 | 54 | 9.094E-07 | 5.820E-06 | 1200 |
| 114.0 | 414 | 6.916E-06 | 4.426E-05 | 1200 |
| 116.0 | 82 | 1.379E-06 | 8.824E-06 | 1200 |
| 118.0 | 65 | 1.065E-06 | 6.947E-06 | 1200 |
| 120.0 | 408 | 6.806E-06 | 4.356E-05 | 1200 |
| 122.0 | 408 | 6.806E-06 | 4.356E-05 | 1200 |
| 124.0 | 388 | 6.476E-06 | 4.145E-05 | 1200 |
| 126.0 | 95 | 1.599E-06 | 1.023E-05 | 1200 |
| S 128.0 | 8 | 1.393E-07 | 8.916E-07 | 1200 |
| 130.0 | 0 | 0. | 0. | 1200 |
| 132.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.347E-03 SEC/SQ.M 8.618E-03 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 109.5 | 0 | 3.244E-10 | 2.076E-09 | 1630 |
| 110.4 | 24 | 1.071E-08 | 6.852E-08 | 1632 |
| 111.4 | 459 | 1.979E-07 | 1.267E-06 | 1633 |
| 112.4 | 1360 | 5.865E-07 | 3.754E-06 | 1635 |
| 113.4 | 4298 | 1.853E-06 | 1.186E-05 | 1637 |
| 114.4 | 9983 | 4.307E-06 | 2.754E-05 | 1638 |
| 115.3 | 20401 | 8.794E-06 | 5.628E-05 | 1640 |
| 116.3 | 18993 | 8.183E-06 | 5.237E-05 | 1641 |
| 117.3 | 25951 | 1.119E-05 | 7.159E-05 | 1643 |
| 118.2 | 21676 | 9.343E-06 | 5.980E-05 | 1644 |
| 119.2 | 18003 | 7.760E-06 | 4.966E-05 | 1646 |
| 120.2 | 13470 | 5.806E-06 | 3.716E-05 | 1647 |
| 121.2 | 12812 | 5.523E-06 | 3.534E-05 | 1649 |
| 122.1 | 13047 | 5.624E-06 | 3.599E-05 | 1650 |
| 123.1 | 16342 | 7.044E-06 | 4.508E-05 | 1652 |
| 124.1 | 14526 | 6.261E-06 | 4.007E-05 | 1653 |
| 125.0 | 5612 | 2.419E-06 | 1.548E-05 | 1655 |
| 126.0 | 1970 | 8.493E-07 | 5.436E-06 | 1656 |
| 126.9 | 447 | 1.927E-07 | 1.233E-06 | 1658 |
| 127.8 | 69 | 3.017E-08 | 1.931E-07 | 1659 |
| 128.8 | 9 | 3.893E-09 | 2.492E-08 | 1660 |
| 129.7 | 0 | 0. | 0. | 1662 |

CROSSWIND INTEGRATED= 2.390E-03 SEC/SQ.M 1.530E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.4 | 0 | 0. | 0. | 1632 |
| 111.4 | 6 | 1.063E-07 | 6.805E-07 | 1633 |
| 112.4 | 25 | 4.310E-07 | 2.759E-06 | 1635 |
| 113.4 | 113 | 1.968E-06 | 1.260E-05 | 1637 |
| 114.4 | 289 | 4.628E-06 | 3.090E-05 | 1638 |
| 115.3 | 505 | 8.420E-06 | 5.389E-05 | 1640 |
| 116.3 | 548 | 9.139E-06 | 5.848E-05 | 1641 |
| 117.3 | 531 | 8.851E-06 | 5.664E-05 | 1643 |
| 118.2 | 487 | 8.132E-06 | 5.205E-05 | 1644 |
| 119.2 | 367 | 6.121E-06 | 3.917E-05 | 1646 |
| 120.2 | 298 | 4.971E-06 | 3.182E-05 | 1647 |
| 121.2 | 224 | 3.736E-06 | 2.391E-05 | 1649 |
| 122.1 | 221 | 3.693E-06 | 2.363E-05 | 1650 |
| 123.1 | 375 | 6.264E-06 | 4.009E-05 | 1652 |
| 124.1 | 281 | 4.684E-06 | 2.998E-05 | 1653 |
| 125.0 | 143 | 2.399E-06 | 1.536E-05 | 1655 |
| 126.0 | 47 | 7.902E-07 | 5.057E-06 | 1656 |
| 126.9 | 8 | 1.365E-07 | 8.736E-07 | 1658 |
| 127.8 | 1 | 2.874E-08 | 1.839E-07 | 1659 |

CROSSWIND INTEGRATED= 2.079E-03 SEC/SQ.M 1.330E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 109.7 | 0 | 0. | 0. | 3232 |
| 110.7 | 6 | 2.803E-09 | 1.794E-08 | 3233 |
| 111.7 | 52 | 2.259E-08 | 1.446E-07 | 3235 |
| 112.7 | 253 | 1.093E-07 | 6.996E-07 | 3237 |
| 113.7 | 1982 | 8.547E-07 | 5.470E-06 | 3238 |
| 114.6 | 4986 | 2.149E-06 | 1.375E-05 | 3240 |
| 115.6 | 7374 | 3.179E-06 | 2.034E-05 | 3241 |
| 116.6 | 9160 | 3.949E-06 | 2.527E-05 | 3243 |
| 117.6 | 8917 | 3.844E-06 | 2.460E-05 | 3245 |
| 118.6 | 9713 | 4.187E-06 | 2.680E-05 | 3246 |
| 119.5 | 8855 | 3.817E-06 | 2.443E-05 | 3248 |
| 120.5 | 9014 | 3.885E-06 | 2.487E-05 | 3249 |
| 121.5 | 7082 | 3.053E-06 | 1.954E-05 | 3251 |
| 122.4 | 6462 | 2.785E-06 | 1.783E-05 | 3252 |
| 123.4 | 3883 | 1.674E-06 | 1.071E-05 | 3253 |
| 124.4 | 1010 | 4.354E-07 | 2.787E-06 | 3255 |
| 125.4 | 219 | 9.461E-08 | 6.068E-07 | 3256 |
| 126.3 | 15 | 6.595E-09 | 4.221E-08 | 3258 |
| 127.3 | 0 | 0. | 0. | 3259 |

CROSSWIND INTEGRATED= 1.881E-03 SEC/SQ.M 1.204E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.7 | 0 | 0. | 0. | 3233 |
| 111.7 | 1 | 1.949E-08 | 1.248E-07 | 3235 |
| 112.7 | 10 | 1.819E-07 | 1.164E-06 | 3237 |
| 113.7 | 59 | 9.877E-07 | 6.321E-06 | 3238 |
| 114.6 | 185 | 3.093E-06 | 1.979E-05 | 3240 |
| 115.6 | 275 | 4.587E-06 | 2.936E-05 | 3241 |
| 116.6 | 298 | 4.977E-06 | 3.185E-05 | 3243 |
| 117.6 | 283 | 4.717E-06 | 3.019E-05 | 3245 |
| 118.6 | 263 | 4.392E-06 | 2.811E-05 | 3246 |
| 119.5 | 240 | 4.003E-06 | 2.562E-05 | 3248 |
| 120.5 | 193 | 3.223E-06 | 2.063E-05 | 3249 |
| 121.5 | 177 | 2.963E-06 | 1.896E-05 | 3251 |
| 122.4 | 119 | 1.988E-06 | 1.273E-05 | 3252 |
| 123.4 | 69 | 1.163E-06 | 7.444E-06 | 3253 |
| 124.4 | 20 | 3.379E-07 | 2.162E-06 | 3255 |
| 125.4 | 4 | 7.147E-08 | 4.574E-07 | 3256 |
| 126.3 | 0 | 7.797E-09 | 4.990E-08 | 3258 |

CROSSWIND INTEGRATED= 2.030E-03 SEC/SQ.M 1.299E-02 1/M



V6 1202921

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 102.0 | .4 | 6 | 3.000E-09 | 1.920E-08 | 200 |
| E 102.0 | .8 | 4 | 1.920E-09 | 1.229E-08 | 200 |
| 102.0 | 1.5 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 110.0 | .4 | 1217 | 5.246E-07 | 3.357E-06 | 200 |
| 110.0 | .8 | 1202 | 5.185E-07 | 3.318E-06 | 200 |
| 110.0 | 1.5 | 2357 | 1.016E-06 | 6.503E-06 | 200 |
| 110.0 | 2.5 | 2904 | 1.252E-06 | 8.012E-06 | 200 |
| 110.0 | 4.0 | 2231 | 9.618E-07 | 6.155E-06 | 200 |
| 110.0 | 5.5 | 6132 | 2.644E-06 | 1.692E-05 | 200 |
| 110.0 | 7.0 | 7735 | 3.334E-06 | 2.134E-05 | 200 |
| 110.0 | 8.5 | 11314 | 4.877E-06 | 3.121E-05 | 200 |
| 110.0 | 10.0 | 11741 | 5.061E-06 | 3.239E-05 | 200 |
| 110.0 | 13.0 | 14807 | 6.383E-06 | 4.085E-05 | 200 |
| 110.0 | 16.0 | 15046 | 6.485E-06 | 4.151E-05 | 200 |
| 110.0 | 19.0 | 20904 | 9.011E-06 | 5.767E-05 | 200 |
| 110.0 | 22.0 | 25886 | 1.116E-05 | 7.141E-05 | 200 |
| 110.0 | 25.0 | 11722 | 5.053E-06 | 3.234E-05 | 200 |
| 110.0 | 28.0 | 13721 | 5.915E-06 | 3.785E-05 | 200 |
| 110.0 | 31.0 | 5939 | 2.560E-06 | 1.638E-05 | 200 |
| 110.0 | 32.8 | 3413 | 1.471E-06 | 9.416E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 13889 | 5.987E-06 | 3.832E-05 | 200 |
| 118.0 | .8 | 17705 | 7.632E-06 | 4.884E-05 | 200 |
| 118.0 | 1.5 | 12933 | 5.575E-06 | 3.568E-05 | 200 |
| 118.0 | 2.5 | 15883 | 6.846E-06 | 4.382E-05 | 200 |
| 118.0 | 4.0 | 25814 | 1.113E-05 | 7.121E-05 | 200 |
| 118.0 | 5.5 | 27588 | 1.189E-05 | 7.611E-05 | 200 |
| 118.0 | 7.0 | 37017 | 1.596E-05 | 1.021E-04 | 200 |
| 118.0 | 8.5 | 46903 | 2.022E-05 | 1.294E-04 | 200 |
| 118.0 | 10.0 | 56704 | 2.444E-05 | 1.564E-04 | 200 |
| 118.0 | 13.0 | 88985 | 3.836E-05 | 2.455E-04 | 200 |
| 118.0 | 16.0 | 119725 | 5.161E-05 | 3.303E-04 | 200 |
| 118.0 | 19.0 | 134177 | 5.784E-05 | 3.701E-04 | 200 |
| 118.0 | 22.0 | 187251 | 8.071E-05 | 5.166E-04 | 200 |
| 118.0 | 25.0 | 250482 | 1.080E-04 | 6.910E-04 | 200 |
| 118.0 | 28.0 | 230536 | 9.937E-05 | 6.360E-04 | 200 |
| 118.0 | 31.0 | 156663 | 6.753E-05 | 4.322E-04 | 200 |
| 118.0 | 32.8 | 108480 | 4.676E-05 | 2.993E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 9 126.0 | .4 | 538 | 2.320E-07 | 1.485E-06 | 200 |
| 9 126.0 | .8 | 1942 | 8.372E-07 | 5.358E-06 | 200 |
| 126.0 | 1.5 | 3301 | 1.423E-06 | 9.106E-06 | 200 |
| 126.0 | 2.5 | 4473 | 1.928E-06 | 1.234E-05 | 200 |
| 126.0 | 4.0 | 6485 | 2.796E-06 | 1.789E-05 | 200 |
| 126.0 | 5.5 | 8235 | 3.550E-06 | 2.272E-05 | 200 |
| 126.0 | 7.0 | 8292 | 3.575E-06 | 2.288E-05 | 200 |
| 126.0 | 8.5 | 13499 | 5.819E-06 | 3.724E-05 | 200 |
| 126.0 | 10.0 | 19893 | 8.575E-06 | 5.488E-05 | 200 |
| 126.0 | 13.0 | 27655 | 1.192E-05 | 7.629E-05 | 200 |
| 126.0 | 16.0 | 40174 | 1.732E-05 | 1.108E-04 | 200 |
| 126.0 | 19.0 | 49673 | 2.141E-05 | 1.370E-04 | 200 |
| 126.0 | 22.0 | 53439 | 2.303E-05 | 1.474E-04 | 200 |
| 126.0 | 25.0 | 66211 | 2.854E-05 | 1.827E-04 | 200 |
| 126.0 | 28.0 | 60923 | 2.626E-05 | 1.681E-04 | 200 |
| 126.0 | 31.0 | 22906 | 9.874E-06 | 6.319E-05 | 200 |
| 126.0 | 32.8 | 27136 | 1.170E-05 | 7.486E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 6 | 3.000E-09 | 1.920E-08 | 200 |
| E 134.0 | .8 | 0 | 0. | 0. | 200 |
| 134.0 | 1.5 | 0 | 0. | 0. | 200 |

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
200M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| W 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 110.0 | .4 | 20 | 3.446E-07 | 2.205E-06 | 200 |
| 110.0 | .8 | 9 | 1.554E-07 | 9.946E-07 | 200 |
| 110.0 | 1.5 | 1 | 2.252E-08 | 1.441E-07 | 200 |
| 110.0 | 2.5 | 0 | 0. | 0. | 200 |
| 110.0 | 4.0 | 1 | 2.477E-08 | 1.586E-07 | 200 |
| 110.0 | 5.5 | 10 | 1.689E-07 | 1.081E-06 | 200 |
| 110.0 | 7.0 | 15 | 2.635E-07 | 1.686E-06 | 200 |
| 110.0 | 8.5 | 45 | 7.658E-07 | 4.901E-06 | 200 |
| 110.0 | 10.0 | 55 | 9.234E-07 | 5.910E-06 | 200 |
| 110.0 | 13.0 | 113 | 1.892E-06 | 1.211E-05 | 200 |
| 110.0 | 16.0 | 141 | 2.365E-06 | 1.514E-05 | 200 |
| 110.0 | 19.0 | 222 | 3.716E-06 | 2.378E-05 | 200 |
| 110.0 | 22.0 | 239 | 3.986E-06 | 2.551E-05 | 200 |
| 110.0 | 25.0 | 145 | 2.432E-06 | 1.557E-05 | 200 |
| 110.0 | 28.0 | 186 | 3.108E-06 | 1.989E-05 | 200 |
| 110.0 | 31.0 | 98 | 1.644E-06 | 1.052E-05 | 200 |
| 110.0 | 32.8 | 55 | 9.234E-07 | 5.910E-06 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | .4 | 2 | 4.054E-08 | 2.595E-07 | 200 |
| 118.0 | .8 | 3 | 5.856E-08 | 3.746E-07 | 200 |
| 118.0 | 1.5 | 15 | 2.635E-07 | 1.686E-06 | 200 |
| 118.0 | 2.5 | 8 | 1.351E-07 | 8.649E-07 | 200 |
| 118.0 | 4.0 | 6 | 1.014E-07 | 6.486E-07 | 200 |
| 118.0 | 5.5 | 44 | 7.432E-07 | 4.757E-06 | 200 |
| 118.0 | 7.0 | 98 | 1.644E-06 | 1.052E-05 | 200 |
| 118.0 | 8.5 | 149 | 2.500E-06 | 1.600E-05 | 200 |
| 118.0 | 10.0 | 267 | 4.459E-06 | 2.854E-05 | 200 |
| 118.0 | 13.0 | 667 | 1.113E-05 | 7.121E-05 | 200 |
| 118.0 | 16.0 | 1167 | 1.946E-05 | 1.245E-04 | 200 |
| 118.0 | 19.0 | 2586 | 4.311E-05 | 2.759E-04 | 200 |
| 118.0 | 22.0 | 3478 | 5.797E-05 | 3.710E-04 | 200 |
| 118.0 | 25.0 | 4721 | 7.869E-05 | 5.036E-04 | 200 |
| 118.0 | 28.0 | 5127 | 8.545E-05 | 5.469E-04 | 200 |
| 118.0 | 31.0 | 3113 | 5.189E-05 | 3.321E-04 | 200 |
| 118.0 | 32.8 | 2302 | 3.836E-05 | 2.456E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| U 126.0 | .4 | 52 | 8.784E-07 | 5.622E-06 | 200 |
| U 126.0 | .8 | 51 | 8.559E-07 | 5.477E-06 | 200 |
| 126.0 | 1.5 | 22 | 3.716E-07 | 2.378E-06 | 200 |
| 126.0 | 2.5 | 8 | 1.419E-07 | 9.081E-07 | 200 |
| 126.0 | 4.0 | 17 | 2.905E-07 | 1.859E-06 | 200 |
| 126.0 | 5.5 | 41 | 6.982E-07 | 4.468E-06 | 200 |
| 126.0 | 7.0 | 47 | 7.883E-07 | 5.045E-06 | 200 |
| 126.0 | 8.5 | 59 | 9.910E-07 | 6.342E-06 | 200 |
| 126.0 | 10.0 | 124 | 2.072E-06 | 1.326E-05 | 200 |
| 126.0 | 13.0 | 222 | 3.716E-06 | 2.378E-05 | 200 |
| 126.0 | 16.0 | 464 | 7.748E-06 | 4.959E-05 | 200 |
| 126.0 | 19.0 | 856 | 1.428E-05 | 9.139E-05 | 200 |
| 126.0 | 22.0 | 991 | 1.653E-05 | 1.058E-04 | 200 |
| 126.0 | 25.0 | 1113 | 1.856E-05 | 1.188E-04 | 200 |
| 126.0 | 28.0 | 978 | 1.631E-05 | 1.044E-04 | 200 |
| 126.0 | 31.0 | 424 | 7.072E-06 | 4.526E-05 | 200 |
| 126.0 | 32.8 | 344 | 5.743E-06 | 3.676E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 134.0 | .4 | 0 | 0. | 0. | 200 |

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| E 112.6 | .3 | 8749 | 3.771E-06 | 2.414E-05 | 833 |
| E 112.6 | .5 | 7322 | 3.156E-06 | 2.020E-05 | 833 |
| E 112.6 | 1.1 | 7869 | 3.392E-06 | 2.171E-05 | 833 |
| E 112.6 | 1.5 | 8077 | 3.482E-06 | 2.228E-05 | 833 |
| E 112.6 | 2.1 | 8630 | 3.720E-06 | 2.381E-05 | 833 |
| E 112.6 | 4.2 | 9924 | 4.278E-06 | 2.738E-05 | 833 |
| 112.6 | 6.3 | 12003 | 5.174E-06 | 3.311E-05 | 833 |
| 112.6 | 8.4 | 9966 | 4.296E-06 | 2.749E-05 | 833 |
| 112.6 | 10.5 | 8984 | 3.872E-06 | 2.478E-05 | 833 |
| 112.6 | 12.6 | 6276 | 2.705E-06 | 1.731E-05 | 833 |
| 112.6 | 14.7 | 6997 | 3.016E-06 | 1.930E-05 | 833 |
| 112.6 | 16.8 | 9236 | 3.981E-06 | 2.548E-05 | 833 |
| 112.6 | 21.0 | 5479 | 2.362E-06 | 1.511E-05 | 833 |
| 112.6 | 25.2 | 3902 | 1.682E-06 | 1.077E-05 | 833 |
| 112.6 | 29.4 | 1594 | 6.873E-07 | 4.399E-06 | 833 |
| 112.6 | 33.6 | 1403 | 6.051E-07 | 3.873E-06 | 833 |
| 112.6 | 37.8 | 679 | 2.927E-07 | 1.873E-06 | 833 |
| 112.6 | 42.0 | 255 | 1.101E-07 | 7.046E-07 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 20477 | 8.827E-06 | 5.649E-05 | 845 |
| 120.2 | .5 | 21107 | 9.098E-06 | 5.823E-05 | 845 |
| 120.2 | 1.1 | 18638 | 8.034E-06 | 5.142E-05 | 845 |
| 120.2 | 1.5 | 21793 | 9.394E-06 | 6.012E-05 | 845 |
| 120.2 | 2.1 | 26795 | 1.155E-05 | 7.392E-05 | 845 |
| 120.2 | 4.2 | 25960 | 1.119E-05 | 7.162E-05 | 845 |
| 120.2 | 6.3 | 28769 | 1.240E-05 | 7.937E-05 | 845 |
| 120.2 | 8.4 | 5856 | 2.524E-06 | 1.615E-05 | 845 |
| 120.2 | 10.5 | 23733 | 1.023E-05 | 6.547E-05 | 845 |
| 120.2 | 12.6 | 19608 | 8.452E-06 | 5.409E-05 | 845 |
| 120.2 | 14.7 | 15917 | 6.861E-06 | 4.391E-05 | 845 |
| 120.2 | 16.8 | 21766 | 9.382E-06 | 6.005E-05 | 845 |
| 120.2 | 21.0 | 20132 | 8.678E-06 | 5.554E-05 | 845 |
| 120.2 | 25.2 | 17545 | 7.563E-06 | 4.640E-05 | 845 |
| 120.2 | 29.4 | 14893 | 6.420E-06 | 4.109E-05 | 845 |
| 120.2 | 33.6 | 19814 | 8.541E-06 | 5.466E-05 | 845 |
| 120.2 | 37.8 | 12443 | 5.364E-06 | 3.433E-05 | 845 |
| 120.2 | 42.0 | 7768 | 3.348E-06 | 2.143E-05 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 1723 | 7.430E-07 | 4.755E-06 | 857 |
| 127.7 | .5 | 2038 | 8.786E-07 | 5.623E-06 | 857 |
| 127.7 | 1.1 | 1986 | 8.564E-07 | 5.481E-06 | 857 |
| 127.7 | 1.5 | 2418 | 1.042E-06 | 6.671E-06 | 857 |
| 127.7 | 2.1 | 3164 | 1.364E-06 | 8.729E-06 | 857 |
| 127.7 | 4.2 | 1031 | 4.444E-07 | 2.844E-06 | 857 |
| 127.7 | 6.3 | 2728 | 1.176E-06 | 7.528E-06 | 857 |
| 127.7 | 8.4 | 2758 | 1.189E-06 | 7.610E-06 | 857 |
| 127.7 | 10.5 | 2098 | 9.044E-07 | 5.788E-06 | 857 |
| 127.7 | 12.6 | 2127 | 9.171E-07 | 5.869E-06 | 857 |
| 127.7 | 14.7 | 2405 | 1.037E-06 | 6.634E-06 | 857 |
| 127.7 | 16.8 | 2013 | 8.680E-07 | 5.555E-06 | 857 |
| 127.7 | 21.0 | 1568 | 6.760E-07 | 4.326E-06 | 857 |
| 127.7 | 25.2 | 1211 | 5.223E-07 | 3.343E-06 | 857 |
| 127.7 | 29.4 | 864 | 3.724E-07 | 2.384E-06 | 857 |
| 127.7 | 33.6 | 629 | 2.714E-07 | 1.737E-06 | 857 |
| 127.7 | 37.8 | 430 | 1.854E-07 | 1.187E-06 | 857 |
| 127.7 | 42.0 | 154 | 6.679E-08 | 4.274E-07 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 135.0 | .3 | 0 | 0. | 0. | 867 |

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
800M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| X 112.6 | .3 | 0 | 0. | 0. | 833 |
| X 112.6 | .5 | 0 | 0. | 0. | 833 |
| X 112.6 | 1.1 | 0 | 0. | 0. | 833 |
| 112.6 | 1.5 | 49 | 8.279E-07 | 5.298E-06 | 833 |
| X 112.6 | 2.1 | 0 | 0. | 0. | 833 |
| X 112.6 | 4.2 | 0 | 0. | 0. | 833 |
| 112.6 | 6.3 | 171 | 2.854E-06 | 1.827E-05 | 833 |
| 112.6 | 8.4 | 143 | 2.397E-06 | 1.534E-05 | 833 |
| L 112.6 | 10.5 | 0 | 0. | 0. | 833 |
| 112.6 | 12.6 | 81 | 1.351E-06 | 8.645E-06 | 833 |
| 112.6 | 14.7 | 113 | 1.895E-06 | 1.213E-05 | 833 |
| 112.6 | 16.8 | 135 | 2.266E-06 | 1.450E-05 | 833 |
| 112.6 | 21.0 | 105 | 1.765E-06 | 1.129E-05 | 833 |
| 112.6 | 25.2 | 81 | 1.351E-06 | 8.645E-06 | 833 |
| 112.6 | 29.4 | 15 | 2.527E-07 | 1.617E-06 | 833 |
| 112.6 | 33.6 | 1036 | 1.728E-05 | 1.106E-04 | 833 |
| 112.6 | 37.8 | 8 | 1.351E-07 | 8.645E-07 | 833 |
| 112.6 | 42.0 | 0 | 0. | 0. | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 265 | 4.423E-06 | 2.831E-05 | 845 |
| 120.2 | .5 | 288 | 4.819E-06 | 3.081E-05 | 845 |
| 120.2 | 1.1 | 300 | 5.011E-06 | 3.207E-05 | 845 |
| 120.2 | 1.5 | 383 | 6.383E-06 | 4.085E-05 | 845 |
| 120.2 | 2.1 | 304 | 5.076E-06 | 3.249E-05 | 845 |
| 120.2 | 4.2 | 284 | 4.749E-06 | 3.040E-05 | 845 |
| 120.2 | 6.3 | 265 | 4.423E-06 | 2.831E-05 | 845 |
| 120.2 | 8.4 | 304 | 5.076E-06 | 3.249E-05 | 845 |
| 120.2 | 10.5 | 312 | 5.207E-06 | 3.332E-05 | 845 |
| 120.2 | 12.6 | 304 | 5.076E-06 | 3.249E-05 | 845 |
| 120.2 | 14.7 | 248 | 4.815E-06 | 3.081E-05 | 845 |
| 120.2 | 16.8 | 343 | 5.730E-06 | 3.667E-05 | 845 |
| 120.2 | 21.0 | 409 | 6.819E-06 | 4.364E-05 | 845 |
| 120.2 | 25.2 | 435 | 7.255E-06 | 4.643E-05 | 845 |
| 120.2 | 29.4 | 316 | 5.272E-06 | 3.374E-05 | 845 |
| 120.2 | 33.6 | 363 | 6.057E-06 | 3.876E-05 | 845 |
| 120.2 | 37.8 | 320 | 5.338E-06 | 3.416E-05 | 845 |
| 120.2 | 42.0 | 277 | 4.619E-06 | 2.956E-05 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 20 | 3.442E-07 | 2.203E-06 | 857 |
| 127.7 | .5 | 22 | 3.704E-07 | 2.370E-06 | 857 |
| 127.7 | 1.1 | 32 | 5.447E-07 | 3.486E-06 | 857 |
| 127.7 | 1.5 | 26 | 4.674E-07 | 2.990E-06 | 857 |
| 127.7 | 2.1 | 24 | 4.161E-07 | 2.663E-06 | 857 |
| 127.7 | 4.2 | 25 | 4.292E-07 | 2.747E-06 | 857 |
| 127.7 | 6.3 | 27 | 4.619E-07 | 2.956E-06 | 857 |
| 127.7 | 8.4 | 27 | 4.619E-07 | 2.956E-06 | 857 |
| 127.7 | 10.5 | 28 | 4.749E-07 | 3.040E-06 | 857 |
| 127.7 | 12.6 | 32 | 5.447E-07 | 3.486E-06 | 857 |
| 127.7 | 14.7 | 26 | 4.423E-07 | 2.831E-06 | 857 |
| 127.7 | 16.8 | 31 | 5.229E-07 | 3.346E-06 | 857 |
| 127.7 | 21.0 | 26 | 4.423E-07 | 2.831E-06 | 857 |
| 127.7 | 25.2 | 33 | 5.664E-07 | 3.625E-06 | 857 |
| 127.7 | 29.4 | 22 | 3.704E-07 | 2.370E-06 | 857 |
| 127.7 | 33.6 | 12 | 2.135E-07 | 1.366E-06 | 857 |
| 127.7 | 37.8 | 6 | 1.024E-07 | 6.553E-07 | 857 |
| 127.7 | 42.0 | 1 | 1.743E-08 | 1.115E-07 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 135.0 | .3 | 0 | 0. | 0. | 867 |



1202923

V6

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 109.5 | .2 | 8 | 3.828E-09 | 2.450E-08 | 1630 |
| 109.5 | .4 | 122 | 5.290E-08 | 3.385E-07 | 1630 |
| 109.5 | .8 | 16 | 7.323E-09 | 4.687E-08 | 1630 |
| 109.5 | 1.5 | 0 | 3.244E-10 | 2.076E-09 | 1630 |
| 109.5 | 1.6 | 24 | 1.071E-08 | 6.852E-08 | 1630 |
| 109.5 | 3.1 | 21 | 9.236E-09 | 5.911E-08 | 1630 |
| 109.5 | 6.2 | 1 | 7.696E-10 | 4.925E-09 | 1630 |

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
1600M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 109.5 | .2 | 5 | 9.339E-08 | 5.977E-07 | 1630 |
| 109.5 | .4 | 7 | 1.322E-07 | 8.460E-07 | 1630 |
| 109.5 | .8 | 0 | 0. | 0. | 1630 |
| 109.5 | 1.6 | 3 | 6.176E-08 | 3.954E-07 | 1630 |
| 109.5 | 3.1 | 0 | 0. | 0. | 1630 |
| 109.5 | 6.2 | 4 | 7.759E-08 | 4.966E-07 | 1630 |
| 109.5 | 9.3 | 0 | 0. | 0. | 1630 |
| 109.5 | 12.4 | 0 | 0. | 0. | 1630 |
| 109.5 | 15.5 | 2 | 4.310E-08 | 2.759E-07 | 1630 |
| 109.5 | 18.6 | 0 | 0. | 0. | 1630 |
| 109.5 | 21.7 | 3 | 5.747E-08 | 3.678E-07 | 1630 |
| 109.5 | 24.8 | 0 | 1.006E-08 | 6.437E-08 | 1630 |
| 109.5 | 31.0 | 5 | 9.339E-08 | 5.977E-07 | 1630 |
| 109.5 | 37.2 | 3 | 5.460E-08 | 3.494E-07 | 1630 |
| 109.5 | 43.4 | 2 | 4.310E-08 | 2.759E-07 | 1630 |
| 109.5 | 49.6 | 0 | 1.006E-08 | 6.437E-08 | 1630 |
| 109.5 | 55.8 | 3 | 5.891E-08 | 3.770E-07 | 1630 |
| 109.5 | 62.0 | 1 | 2.874E-08 | 1.839E-07 | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 26164 | 1.128E-05 | 7.218E-05 | 1643 |
| 117.3 | .4 | 19908 | 8.581E-06 | 5.492E-05 | 1643 |
| 117.3 | .8 | 26520 | 1.143E-05 | 7.316E-05 | 1643 |
| 117.3 | 1.5 | 25951 | 1.119E-05 | 7.159E-05 | 1643 |
| 117.3 | 1.6 | 27272 | 1.176E-05 | 7.523E-05 | 1643 |
| 117.3 | 3.1 | 26493 | 1.142E-05 | 7.308E-05 | 1643 |
| 117.3 | 6.2 | 24668 | 1.063E-05 | 6.805E-05 | 1643 |
| 117.3 | 9.3 | 27656 | 1.192E-05 | 7.629E-05 | 1643 |
| E 117.3 | 12.4 | 25431 | 1.096E-05 | 7.016E-05 | 1643 |
| 117.3 | 15.5 | 23395 | 1.008E-05 | 6.454E-05 | 1643 |
| 117.3 | 18.6 | 25124 | 1.083E-05 | 6.931E-05 | 1643 |
| 117.3 | 21.7 | 23359 | 1.007E-05 | 6.444E-05 | 1643 |
| 117.3 | 24.8 | 17679 | 7.620E-06 | 4.877E-05 | 1643 |
| 117.3 | 31.0 | 17432 | 7.514E-06 | 4.809E-05 | 1643 |
| 117.3 | 37.2 | 14607 | 6.296E-06 | 4.030E-05 | 1643 |
| 117.3 | 43.4 | 6914 | 2.980E-06 | 1.908E-05 | 1643 |
| 117.3 | 49.6 | 1525 | 6.574E-07 | 4.208E-06 | 1643 |
| 117.3 | 55.8 | 375 | 1.619E-07 | 1.036E-06 | 1643 |
| 117.3 | 62.0 | 7 | 3.056E-09 | 1.956E-08 | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 582 | 9.719E-06 | 6.216E-05 | 1643 |
| 117.3 | .4 | 531 | 8.851E-06 | 5.664E-05 | 1643 |
| 117.3 | .8 | 487 | 8.132E-06 | 5.205E-05 | 1643 |
| 117.3 | 1.5 | 531 | 8.851E-06 | 5.664E-05 | 1643 |
| 117.3 | 1.6 | 427 | 7.126E-06 | 4.561E-05 | 1643 |
| 117.3 | 3.1 | 358 | 5.977E-06 | 3.825E-05 | 1643 |
| 117.3 | 6.2 | 427 | 7.126E-06 | 4.561E-05 | 1643 |
| 117.3 | 9.3 | 444 | 7.414E-06 | 4.745E-05 | 1643 |
| E 117.3 | 12.4 | 410 | 6.839E-06 | 4.377E-05 | 1643 |
| 117.3 | 15.5 | 367 | 6.121E-06 | 3.917E-05 | 1643 |
| 117.3 | 18.6 | 470 | 7.845E-06 | 5.021E-05 | 1643 |
| 117.3 | 21.7 | 462 | 7.701E-06 | 4.929E-05 | 1643 |
| 117.3 | 24.8 | 470 | 7.845E-06 | 5.021E-05 | 1643 |
| 117.3 | 31.0 | 436 | 7.270E-06 | 4.653E-05 | 1643 |
| 117.3 | 37.2 | 298 | 4.971E-06 | 3.182E-05 | 1643 |
| 117.3 | 43.4 | 218 | 3.649E-06 | 2.336E-05 | 1643 |
| 117.3 | 49.6 | 62 | 1.049E-06 | 6.713E-06 | 1643 |
| 117.3 | 55.8 | 12 | 2.011E-07 | 1.287E-06 | 1643 |
| 117.3 | 62.0 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 125.0 | .2 | 6056 | 2.611E-06 | 1.671E-05 | 1655 |
| 125.0 | .4 | 5313 | 2.290E-06 | 1.466E-05 | 1655 |
| 125.0 | .8 | 7107 | 3.063E-06 | 1.961E-05 | 1655 |
| 125.0 | 1.5 | 5612 | 2.419E-06 | 1.548E-05 | 1655 |
| 125.0 | 1.6 | 5666 | 2.443E-06 | 1.563E-05 | 1655 |
| 125.0 | 3.1 | 5457 | 2.352E-06 | 1.505E-05 | 1655 |
| E 125.0 | 6.2 | 4997 | 2.154E-06 | 1.379E-05 | 1655 |
| 125.0 | 9.3 | 4782 | 2.061E-06 | 1.319E-05 | 1655 |
| 125.0 | 12.4 | 4440 | 1.914E-06 | 1.225E-05 | 1655 |
| 125.0 | 15.5 | 4617 | 1.990E-06 | 1.274E-05 | 1655 |
| 125.0 | 18.6 | 7467 | 3.219E-06 | 2.060E-05 | 1655 |
| 125.0 | 21.7 | 5535 | 2.386E-06 | 1.527E-05 | 1655 |
| 125.0 | 24.8 | 6216 | 2.679E-06 | 1.715E-05 | 1655 |
| 125.0 | 31.0 | 3122 | 1.346E-06 | 8.614E-06 | 1655 |
| 125.0 | 37.2 | 3442 | 1.484E-06 | 9.495E-06 | 1655 |
| 125.0 | 43.4 | 3377 | 1.456E-06 | 9.318E-06 | 1655 |
| 125.0 | 49.6 | 1293 | 5.577E-07 | 3.569E-06 | 1655 |
| 125.0 | 55.8 | 902 | 3.892E-07 | 2.491E-06 | 1655 |
| 125.0 | 62.0 | 138 | 5.983E-08 | 3.829E-07 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 125.0 | .2 | 55 | 9.195E-07 | 5.885E-06 | 1655 |
| 125.0 | .4 | 55 | 9.195E-07 | 5.885E-06 | 1655 |
| 125.0 | .8 | 42 | 7.040E-07 | 4.506E-06 | 1655 |
| 125.0 | 1.5 | 143 | 2.395E-06 | 1.536E-05 | 1655 |
| 125.0 | 1.6 | 45 | 7.619E-07 | 4.874E-06 | 1655 |
| 125.0 | 3.1 | 37 | 6.322E-07 | 4.046E-06 | 1655 |
| T 125.0 | 6.2 | 200 | 3.348E-06 | 2.143E-05 | 1655 |
| 125.0 | 9.3 | 37 | 6.170E-07 | 3.954E-06 | 1655 |
| 125.0 | 12.4 | 38 | 6.466E-07 | 4.138E-06 | 1655 |
| 125.0 | 15.5 | 43 | 7.326E-07 | 4.690E-06 | 1655 |
| 125.0 | 18.6 | 42 | 7.040E-07 | 4.506E-06 | 1655 |
| 125.0 | 21.7 | 46 | 7.759E-07 | 4.966E-06 | 1655 |
| 125.0 | 24.8 | 41 | 6.897E-07 | 4.414E-06 | 1655 |
| 125.0 | 31.0 | 40 | 6.753E-07 | 4.322E-06 | 1655 |
| 125.0 | 37.2 | 37 | 6.322E-07 | 4.046E-06 | 1655 |
| 125.0 | 43.4 | 27 | 4.590E-07 | 2.943E-06 | 1655 |
| 125.0 | 49.6 | 19 | 3.216E-07 | 2.060E-06 | 1655 |
| 125.0 | 55.8 | 9 | 1.667E-07 | 1.067E-06 | 1655 |
| 125.0 | 62.0 | 1 | 3.017E-08 | 1.931E-07 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 132.5 | .2 | 0 | 0. | 0. | 1665 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 152.5 | .2 | 0 | 0. | 0. | 1688 |

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| C 115.6 | .2 | 4917 | 2.120E-06 | 1.357E-05 | 3241 |
| C 115.6 | .4 | 7019 | 3.026E-06 | 1.937E-05 | 3241 |
| C 115.6 | .8 | 6660 | 2.871E-06 | 1.837E-05 | 3241 |
| 115.6 | 1.5 | 7374 | 3.179E-06 | 2.034E-05 | 3241 |
| 115.6 | 1.6 | 7690 | 3.315E-06 | 2.122E-05 | 3241 |
| 115.6 | 3.1 | 6354 | 2.739E-06 | 1.753E-05 | 3241 |
| 115.6 | 6.2 | 7391 | 3.186E-06 | 2.039E-05 | 3241 |
| 115.6 | 9.3 | 4865 | 2.097E-06 | 1.342E-05 | 3241 |
| 115.6 | 12.4 | 3274 | 1.411E-06 | 9.032E-06 | 3241 |
| 115.6 | 15.5 | 4646 | 2.003E-06 | 1.282E-05 | 3241 |
| Z 115.6 | 18.6 | 3987 | 1.717E-06 | 1.099E-05 | 3241 |
| E 115.6 | 21.7 | 3853 | 1.661E-06 | 1.063E-05 | 3241 |
| E 115.6 | 24.8 | 3700 | 1.595E-06 | 1.021E-05 | 3241 |
| E 115.6 | 31.0 | 3220 | 1.388E-06 | 8.883E-06 | 3241 |
| E 115.6 | 37.2 | 2786 | 1.201E-06 | 7.687E-06 | 3241 |
| 115.6 | 43.4 | 2042 | 8.805E-07 | 5.635E-06 | 3241 |
| 115.6 | 49.6 | 502 | 2.165E-07 | 1.386E-06 | 3241 |
| 115.6 | 55.8 | 98 | 4.292E-08 | 2.709E-07 | 3241 |
| 115.6 | 62.0 | 25 | 1.090E-08 | 6.974E-08 | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 123.4 | .2 | 2471 | 1.065E-06 | 6.819E-06 | 3253 |
| 123.4 | .4 | 3314 | 1.429E-06 | 9.144E-06 | 3253 |
| 123.4 | .8 | 4426 | 1.908E-06 | 1.221E-05 | 3253 |
| 123.4 | 1.5 | 3883 | 1.674E-06 | 1.071E-05 | 3253 |
| 123.4 | 1.6 | 1818 | 7.837E-07 | 5.015E-06 | 3253 |
| 123.4 | 3.1 | 2538 | 1.094E-06 | 7.001E-06 | 3253 |
| 123.4 | 6.2 | 2970 | 1.280E-06 | 8.195E-06 | 3253 |
| 123.4 | 9.3 | 2450 | 1.056E-06 | 6.761E-06 | 3253 |
| 123.4 | 12.4 | 4453 | 1.920E-06 | 1.229E-05 | 3253 |
| 123.4 | 15.5 | 4699 | 2.026E-06 | 1.296E-05 | 3253 |
| 123.4 | 18.6 | 3728 | 1.607E-06 | 1.029E-05 | 3253 |
| 123.4 | 21.7 | 4002 | 1.725E-06 | 1.104E-05 | 3253 |
| 123.4 | 24.8 | 4024 | 1.735E-06 | 1.110E-05 | 3253 |
| 123.4 | 31.0 | 2862 | 1.234E-06 | 7.897E-06 | 3253 |
| 123.4 | 37.2 | 3260 | 1.405E-06 | 8.994E-06 | 3253 |
| 123.4 | 43.4 | 2274 | 9.805E-07 | 6.275E-06 | 3253 |
| 123.4 | 49.6 | 678 | 2.924E-07 | 1.871E-06 | 3253 |
| 123.4 | 55.8 | 663 | 2.862E-07 | 1.832E-06 | 3253 |
| 123.4 | 62.0 | 243 | 1.051E-07 | 6.724E-07 | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 131.2 | .2 | 0 | 0. | 0. | 3264 |

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
3200M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3229 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| C 115.6 | .2 | 111 | 1.865E-06 | 1.194E-05 | 3241 |
| C 115.6 | .4 | 113 | 1.884E-06 | 1.206E-05 | 3241 |
| C 115.6 | .8 | 90 | 1.514E-06 | 9.689E-06 | 3241 |
| 115.6 | 1.5 | 275 | 4.587E-06 | 2.936E-05 | 3241 |
| 115.6 | 1.6 | 123 | 2.053E-06 | 1.314E-05 | 3241 |
| 115.6 | 3.1 | 115 | 1.923E-06 | 1.231E-05 | 3241 |
| 115.6 | 6.2 | 123 | 2.053E-06 | 1.314E-05 | 3241 |
| 115.6 | 9.3 | 88 | 1.475E-06 | 9.440E-06 | 3241 |
| 115.6 | 12.4 | 42 | 7.147E-07 | 4.574E-06 | 3241 |
| 115.6 | 15.5 | 107 | 1.787E-06 | 1.144E-05 | 3241 |
| S 115.6 | 18.6 | 74 | 1.241E-06 | 7.943E-06 | 3241 |
| C 115.6 | 21.7 | 2 | 4.406E-08 | 3.077E-07 | 3241 |
| C 115.6 | 24.8 | 4 | 7.147E-08 | 4.574E-07 | 3241 |
| C 115.6 | 31.0 | 0 | 9.747E-09 | 6.238E-08 | 3241 |
| C 115.6 | 37.2 | 1 | 2.549E-08 | 1.663E-07 | 3241 |
| 115.6 | 43.4 | 26 | 4.353E-07 | 2.786E-06 | 3241 |
| 115.6 | 49.6 | 9 | 1.592E-07 | 1.019E-06 | 3241 |
| 115.6 | 55.8 | 1 | 2.469E-08 | 1.580E-07 | 3241 |
| 115.6 | 62.0 | 0 | 0. | 0. | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 123.4 | .2 | 21 | 3.574E-07 | 2.287E-06 | 3253 |
| 123.4 | .4 | 18 | 3.119E-07 | 1.996E-06 | 3253 |
| 123.4 | .8 | 19 | 3.144E-07 | 2.038E-06 | 3253 |
| 123.4 | 1.5 | 69 | 1.163E-06 | 7.444E-06 | 3253 |
| 123.4 | 1.6 | 21 | 3.639E-07 | 2.329E-06 | 3253 |
| 123.4 | 3.1 | 17 | 2.859E-07 | 1.830E-06 | 3253 |
| 123.4 | 6.2 | 27 | 4.548E-07 | 2.911E-06 | 3253 |
| 123.4 | 9.3 | 20 | 3.379E-07 | 2.162E-06 | 3253 |
| 123.4 | 12.4 | 27 | 4.613E-07 | 2.953E-06 | 3253 |
| 123.4 | 15.5 | 24 | 4.094E-07 | 2.620E-06 | 3253 |
| 123.4 | 18.6 | 26 | 4.443E-07 | 2.869E-06 | 3253 |
| 123.4 | 21.7 | 30 | 5.086E-07 | 3.254E-06 | 3253 |
| 123.4 | 24.8 | 32 | 5.458E-07 | 3.493E-06 | 3253 |
| 123.4 | 31.0 | 30 | 5.193E-07 | 3.285E-06 | 3253 |
| 123.4 | 37.0 | 29 | 4.935E-07 | 3.165E-06 | 3253 |
| 123.4 | 43.0 | 23 | 3.834E-07 | 2.454E-06 | 3253 |
| 123.4 | 49.6 | 20 | 3.444E-07 | 2.204E-06 | 3253 |
| 123.4 | 55.8 | 11 | 1.884E-07 | 1.206E-06 | 3253 |
| 123.4 | 62.0 | 6 | 1.066E-07 | 6.820E-07 | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 131.2 | .2 | 0 | 0. | 0. | 3264 |



1202925

V6

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; TOWER SAMPLING AT 200M AND 800M ONLY. BOTH 200M AND 800M "GROUND-LEVEL" ARCS ENGRAGE CROSSWIND EXTENT OF TRACER (AS DOES 1600M ARC AFTER MODEST EXTRAPOLATION). THREE MIDDLE TOWERS AT BOTH 200M AND 800M INTERCEPT TRACER; PEAK CONCENTRATION SAMPLED, BUT TRUNCATION AT TOP.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.0 | 67 | 3.620E-07 | 2.317E-06 | 200 |
| 106.0 | 69 | 3.718E-07 | 2.360E-06 | 200 |
| 108.0 | 49 | 2.642E-07 | 1.691E-06 | 200 |
| 110.0 | 251 | 1.350E-06 | 8.642E-06 | 200 |
| 112.0 | 360 | 1.937E-06 | 1.240E-05 | 200 |
| 114.0 | 420 | 2.260E-06 | 1.447E-05 | 200 |
| 116.0 | 425 | 2.290E-06 | 1.465E-05 | 200 |
| 118.0 | 293 | 1.575E-06 | 1.008E-05 | 200 |
| 120.0 | 387 | 2.084E-06 | 1.334E-05 | 200 |
| 122.0 | 416 | 2.241E-06 | 1.434E-05 | 200 |
| 124.0 | 214 | 1.155E-06 | 7.390E-06 | 200 |
| 126.0 | 83 | 4.501E-07 | 2.881E-06 | 200 |
| 128.0 | 178 | 9.589E-07 | 6.137E-06 | 200 |
| 130.0 | 29 | 1.566E-07 | 1.002E-06 | 200 |

CROSSWIND INTEGRATED= 1.214E-04 SEC/SQ.M 7.800E-04 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 106.9 | 41 | 2.251E-07 | 1.440E-06 | 823 |
| 108.8 | 43 | 2.348E-07 | 1.503E-06 | 826 |
| 110.7 | 129 | 6.947E-07 | 4.446E-06 | 829 |
| 112.6 | 940 | 5.054E-06 | 3.238E-05 | 833 |
| 114.5 | 1690 | 8.767E-06 | 5.611E-05 | 836 |
| E 116.4 | 1956 | 1.052E-05 | 6.732E-05 | 839 |
| 118.3 | 2145 | 1.154E-05 | 7.383E-05 | 842 |
| 120.2 | 1854 | 9.971E-06 | 6.381E-05 | 845 |
| 122.1 | 1468 | 7.896E-06 | 5.054E-05 | 848 |
| 124.0 | 1450 | 7.799E-06 | 4.991E-05 | 851 |
| 125.8 | 831 | 4.472E-06 | 2.862E-05 | 854 |
| 127.7 | 178 | 9.589E-07 | 6.137E-06 | 857 |
| 129.5 | 58 | 3.131E-07 | 2.004E-06 | 859 |
| 131.4 | 50 | 2.743E-07 | 1.753E-06 | 862 |
| 133.2 | 10 | 5.471E-08 | 3.757E-07 | 865 |

CROSSWIND INTEGRATED= 1.913E-03 SEC/SQ.M 1.224E-02 1/M

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.4 | 3 | 1.957E-08 | 1.252E-07 | 1632 |
| 111.4 | 76 | 4.110E-07 | 2.630E-06 | 1633 |
| 112.4 | 103 | 5.577E-07 | 3.570E-06 | 1635 |
| 113.4 | 376 | 2.025E-06 | 1.296E-05 | 1637 |
| 114.4 | 980 | 5.274E-06 | 3.375E-05 | 1638 |
| 115.3 | 1082 | 5.822E-06 | 3.726E-05 | 1640 |
| 116.3 | 1730 | 9.305E-06 | 5.956E-05 | 1641 |
| 117.3 | 1863 | 1.002E-05 | 6.415E-05 | 1643 |
| 118.2 | 1663 | 8.943E-06 | 5.724E-05 | 1644 |
| E 119.2 | 1394 | 7.495E-06 | 4.797E-05 | 1646 |
| 120.2 | 1166 | 6.262E-06 | 4.020E-05 | 1647 |
| 121.2 | 1128 | 6.067E-06 | 3.883E-05 | 1649 |
| 122.1 | 1215 | 6.536E-06 | 4.183E-05 | 1650 |
| 123.1 | 1368 | 7.358E-06 | 4.709E-05 | 1652 |
| 124.1 | 757 | 4.071E-06 | 2.605E-05 | 1653 |
| 125.0 | 618 | 3.327E-06 | 2.129E-05 | 1655 |
| E 126.0 | 305 | 1.644E-06 | 1.052E-05 | 1656 |
| E 126.9 | 161 | 8.709E-07 | 5.574E-06 | 1658 |
| E 127.8 | 56 | 3.033E-07 | 1.941E-06 | 1659 |
| E 128.8 | 23 | 1.272E-07 | 8.141E-07 | 1660 |

CROSSWIND INTEGRATED= 2.406E-03 SEC/SQ.M 1.540E-02 1/M



1202926

V6

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | 1.5 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 110.0 | 1.5 | 251 | 1.350E-06 | 8.642E-06 | 200 |
| 110.0 | 4.0 | 100 | 5.382E-07 | 3.444E-06 | 200 |
| 110.0 | 7.0 | 161 | 9.765E-07 | 6.262E-06 | 200 |
| 110.0 | 13.0 | 1019 | 5.480E-06 | 3.507E-05 | 200 |
| 110.0 | 19.0 | 1654 | 8.895E-06 | 5.692E-05 | 200 |
| 110.0 | 25.0 | 1628 | 8.756E-06 | 5.605E-05 | 200 |
| 110.0 | 32.8 | 331 | 1.781E-06 | 1.140E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | 1.5 | 293 | 1.575E-06 | 1.008E-05 | 200 |
| 118.0 | 4.0 | 283 | 1.526E-06 | 9.769E-06 | 200 |
| 118.0 | 7.0 | 1077 | 5.793E-06 | 3.707E-05 | 200 |
| 118.0 | 13.0 | 4531 | 2.436E-05 | 1.559E-04 | 200 |
| 118.0 | 19.0 | 16099 | 8.656E-05 | 5.540E-04 | 200 |
| 118.0 | 25.0 | 21475 | 1.155E-04 | 7.390E-04 | 200 |
| 118.0 | 32.8 | 13806 | 7.423E-05 | 4.751E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 126.0 | 1.5 | 83 | 4.501E-07 | 2.881E-06 | 200 |
| 126.0 | 4.0 | 256 | 1.389E-06 | 8.893E-06 | 200 |
| 126.0 | 7.0 | 555 | 2.988E-06 | 1.910E-05 | 200 |
| 126.0 | 13.0 | 1980 | 1.065E-05 | 6.813E-05 | 200 |
| 126.0 | 19.0 | 5079 | 2.731E-05 | 1.748E-04 | 200 |
| 126.0 | 25.0 | 7704 | 4.142E-05 | 2.651E-04 | 200 |
| L 126.0 | 32.8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 134.0 | 1.5 | 0 | 0. | 0. | 200 |

TOWER DATA FOLLOW....

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 6.4 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EQ/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | 1.5 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EQ/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | 1.5 | 940 | 5.054E-06 | 3.238E-05 | 833 |
| 112.6 | 5.0 | 638 | 3.435E-06 | 2.198E-05 | 833 |
| 112.6 | 12.0 | 677 | 3.640E-06 | 2.330E-05 | 833 |
| 112.6 | 19.0 | 411 | 2.211E-06 | 1.415E-05 | 833 |
| 112.6 | 26.0 | 376 | 2.025E-06 | 1.296E-05 | 833 |
| 112.6 | 34.0 | 123 | 6.654E-07 | 4.258E-06 | 833 |
| 112.6 | 42.0 | 72 | 3.914E-07 | 2.505E-06 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EQ/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | 1.5 | 1854 | 9.971E-06 | 6.381E-05 | 845 |
| 120.2 | 5.0 | 1412 | 7.593E-06 | 4.860E-05 | 845 |
| 120.2 | 12.0 | 1845 | 9.922E-06 | 6.350E-05 | 845 |
| 120.2 | 19.0 | 1949 | 1.048E-05 | 6.707E-05 | 845 |
| 120.2 | 26.0 | 2154 | 1.159E-05 | 7.415E-05 | 845 |
| 120.2 | 34.0 | 1679 | 9.032E-06 | 5.780E-05 | 845 |
| 120.2 | 42.0 | 1334 | 7.172E-06 | 4.590E-05 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EQ/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | 1.5 | 178 | 9.589E-07 | 6.137E-06 | 857 |
| 127.7 | 5.0 | 90 | 4.894E-07 | 3.131E-06 | 857 |
| 127.7 | 12.0 | 211 | 1.135E-06 | 7.264E-06 | 857 |
| 127.7 | 19.0 | 171 | 9.198E-07 | 5.887E-06 | 857 |
| 127.7 | 26.0 | 191 | 9.785E-07 | 6.262E-06 | 857 |
| 127.7 | 34.0 | 125 | 6.752E-07 | 4.321E-06 | 857 |
| 127.7 | 42.0 | 74 | 4.012E-07 | 2.568E-06 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EQ/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 135.0 | 1.5 | 0 | 0. | 0. | 867 |



1202928

**ZINC SULFIDE**

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. AFTER MODEST EXTRAPOLATION OF ZNS TO SOUTH. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THIS TRACER. EIGHTEEN OF TWENTY TOWERS "HIT" IN THIS TEST DURING UNSTABLE CONDITIONS. BUT ALL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. MOST UNSTABLE CONDITIONS OF THIS FIELD SERIES.

**KRYPTON-85**

ALTHOUGH SAMPLING AT 200. 800 AND 1600M. DIFFUSION WAS SO GREAT THAT KRYPTON DETECTED WITH CONFIDENCE ONLY AT 200M. ALL 5 TOWERS AT 200M HIT BY TRACER BUT TRUNCATED BADLY AT TOP IN ALL CASES. GROUND LEVEL SAMPLING ALSO TRUNCATED AT SOUTH. ESTIMATE AT 122 DEG BASED ON SIMILARITY BETWEEN ZNS AND KRYPTON CROSSWIND DISTRIBUTIONS.

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 90.0 | 0 | 0. | 0. | 200 |
| 92.0 | 5 | 2.585E-09 | 1.086E-08 | 200 |
| 94.0 | 11 | 5.170E-09 | 2.171E-08 | 200 |
| 96.0 | 818 | 3.606E-07 | 1.514E-06 | 200 |
| 98.0 | 1192 | 5.251E-07 | 2.206E-06 | 200 |
| 5 100.0 | 62 | 2.757E-08 | 1.158E-07 | 200 |
| 102.0 | 2266 | 9.986E-07 | 4.194E-06 | 200 |
| 104.0 | 3463 | 1.526E-06 | 6.409E-06 | 200 |
| 106.0 | 4158 | 1.832E-06 | 7.693E-06 | 200 |
| F 108.0 | 8118 | 3.576E-06 | 1.502E-05 | 200 |
| 110.0 | 7034 | 3.099E-06 | 1.301E-05 | 200 |
| 112.0 | 16989 | 7.484E-06 | 3.143E-05 | 200 |
| 114.0 | 17888 | 7.881E-06 | 3.310E-05 | 200 |
| 116.0 | 12575 | 5.540E-06 | 2.327E-05 | 200 |
| 4 118.0 | 14006 | 6.170E-06 | 2.592E-05 | 200. |
| 120.0 | 16203 | 7.138E-06 | 2.998E-05 | 200 |
| 122.0 | 23736 | 1.046E-05 | 4.392E-05 | 200 |
| 124.0 | 9217 | 4.061E-06 | 1.705E-05 | 200 |
| 126.0 | 3303 | 1.455E-06 | 6.112E-06 | 200 |
| 128.0 | 4650 | 2.049E-06 | 8.605E-06 | 200 |
| 130.0 | 22664 | 9.985E-06 | 4.194E-05 | 200 |
| 132.0 | 10779 | 4.749E-06 | 1.994E-05 | 200 |
| 134.0 | 33370 | 1.470E-05 | 6.174E-05 | 200 |
| 136.0 | 36214 | 1.595E-05 | 6.701E-05 | 200 |
| 138.0 | 44236 | 1.949E-05 | 8.185E-05 | 200 |
| 140.0 | 27947 | 1.231E-05 | 5.171E-05 | 200 |
| 142.0 | 31644 | 1.403E-05 | 5.892E-05 | 200 |
| 144.0 | 22852 | 1.007E-05 | 4.228E-05 | 200 |
| 146.0 | 18667 | 8.223E-06 | 3.454E-05 | 200 |
| 148.0 | 20716 | 9.126E-06 | 3.833E-05 | 200 |
| 150.0 | 23495 | 1.035E-05 | 4.347E-05 | 200 |
| 152.0 | 30344 | 1.337E-05 | 5.614E-05 | 200 |
| 154.0 | 17525 | 7.720E-06 | 3.243E-05 | 200 |
| 156.0 | 13810 | 6.084E-06 | 2.555E-05 | 200 |
| 158.0 | 16108 | 7.096E-06 | 2.980E-05 | 200 |
| 160.0 | 16924 | 7.456E-06 | 3.131E-05 | 200 |
| E 162.0 | 9581 | 4.221E-06 | 1.773E-05 | 200 |
| E 164.0 | 5376 | 2.369E-06 | 9.948E-06 | 200 |
| E 166.0 | 3518 | 1.550E-06 | 6.510E-06 | 200 |
| E 168.0 | 2345 | 1.033E-06 | 4.339E-06 | 200 |
| E 170.0 | 1367 | 6.023E-07 | 2.529E-06 | 200 |
| E 172.0 | 682 | 3.007E-07 | 1.263E-06 | 200 |
| E 174.0 | 330 | 1.456E-07 | 6.116E-07 | 200 |
| E 176.0 | 19 | 8.616E-09 | 3.619E-08 | 200 |
| E 178.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 1.711E-03 SEC/SQ.M 7.187E-03 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 94.0 | 16 | 8.806E-08 | 3.699E-07 | 200 |
| 96.0 | 101 | 5.460E-07 | 2.301E-06 | 200 |
| 98.0 | 32 | 1.761E-07 | 7.397E-07 | 200 |
| 100.0 | 0 | 0. | 0. | 200 |
| 102.0 | 118 | 6.360E-07 | 2.671E-06 | 200 |
| 104.0 | 225 | 1.213E-06 | 5.096E-06 | 200 |
| 106.0 | 276 | 1.487E-06 | 6.247E-06 | 200 |
| 108.0 | 607 | 3.268E-06 | 1.373E-05 | 200 |
| 110.0 | 589 | 3.170E-06 | 1.332E-05 | 200 |
| 112.0 | 1435 | 7.720E-06 | 3.243E-05 | 200 |
| 114.0 | 1383 | 7.437E-06 | 3.123E-05 | 200 |
| 116.0 | 1233 | 6.634E-06 | 2.786E-05 | 200 |
| 118.0 | 840 | 4.521E-06 | 1.899E-05 | 200 |
| 120.0 | 1355 | 7.290E-06 | 3.062E-05 | 200 |
| F 122.0 | 1546 | 8.317E-06 | 3.493E-05 | 200 |
| 124.0 | 516 | 2.779E-06 | 1.167E-05 | 200 |
| 126.0 | 360 | 1.937E-06 | 8.137E-06 | 200 |
| 128.0 | 1088 | 5.851E-06 | 2.456E-05 | 200 |
| 130.0 | 1150 | 6.184E-06 | 2.597E-05 | 200 |
| 132.0 | 1834 | 9.863E-06 | 4.143E-05 | 200 |
| 134.0 | 2420 | 1.301E-05 | 5.466E-05 | 200 |
| 136.0 | 3632 | 1.953E-05 | 8.203E-05 | 200 |
| 138.0 | 3787 | 2.036E-05 | 8.552E-05 | 200 |
| 140.0 | 2145 | 1.154E-05 | 4.845E-05 | 200 |
| 142.0 | 3381 | 1.818E-05 | 7.636E-05 | 200 |
| 144.0 | 2475 | 1.331E-05 | 5.589E-05 | 200 |
| 146.0 | 1659 | 8.924E-06 | 3.748E-05 | 200 |
| B 148.0 | 2029 | 1.091E-05 | 4.582E-05 | 200 |

CROSSWIND INTEGRATED= 1.361E-03 SEC/SQ.M 5.714E-03 1/M



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TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 86.0 | 0 | 0. | 0. | 400 |
| 90.0 | 5 | 2.279E-09 | 9.570E-09 | 400 |
| 94.0 | 0 | 0. | 0. | 400 |
| 98.0 | 717 | 3.162E-07 | 1.328E-06 | 400 |
| 102.0 | 311 | 1.372E-07 | 5.762E-07 | 400 |
| 106.0 | 203 | 8.968E-08 | 3.766E-07 | 400 |
| 110.0 | 2883 | 1.270E-06 | 5.335E-06 | 400 |
| 114.0 | 3077 | 1.356E-06 | 5.694E-06 | 400 |
| 118.0 | 4474 | 1.971E-06 | 8.279E-06 | 400 |
| 122.0 | 4014 | 1.768E-06 | 7.427E-06 | 400 |
| 126.0 | 2268 | 9.995E-07 | 4.198E-06 | 400 |
| 130.0 | 3544 | 1.561E-06 | 6.556E-06 | 400 |
| 134.0 | 4502 | 1.984E-06 | 8.331E-06 | 400 |
| 138.0 | 8364 | 3.685E-06 | 1.546E-05 | 400 |
| 142.0 | 6009 | 2.647E-06 | 1.112E-05 | 400 |
| 146.0 | 11546 | 5.086E-06 | 2.136E-05 | 400 |
| 150.0 | 4791 | 2.111E-06 | 8.865E-06 | 400 |
| 154.0 | 6272 | 2.763E-06 | 1.160E-05 | 400 |
| E 158.0 | 4174 | 1.839E-06 | 7.723E-06 | 400 |
| E 162.0 | 1695 | 7.467E-07 | 3.136E-06 | 400 |
| E 166.0 | 498 | 2.194E-07 | 9.215E-07 | 400 |
| E 170.0 | 0 | 0. | 0. | 400 |

CROSSWIND INTEGRATED= 8.532E-04 SEC/SQ.M 3.583E-03 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 95.1 | 0 | 0. | 0. | 802 |
| 97.1 | 9 | 4.167E-09 | 1.750E-08 | 806 |
| 99.1 | 65 | 2.875E-08 | 1.208E-07 | 809 |
| 101.1 | 114 | 5.042E-08 | 2.118E-07 | 813 |
| 103.0 | 283 | 1.250E-07 | 5.251E-07 | 816 |
| 105.0 | 355 | 1.567E-07 | 6.581E-07 | 820 |
| 106.9 | 525 | 2.317E-07 | 9.731E-07 | 823 |
| 108.8 | 538 | 2.371E-07 | 9.959E-07 | 826 |
| 110.7 | 635 | 2.813E-07 | 1.181E-06 | 829 |
| 112.6 | 1259 | 5.547E-07 | 2.330E-06 | 833 |
| 114.5 | 935 | 4.121E-07 | 1.731E-06 | 836 |
| 116.4 | 540 | 2.379E-07 | 9.994E-07 | 839 |
| 118.3 | 1974 | 8.697E-07 | 3.653E-06 | 842 |
| 120.2 | 1611 | 7.101E-07 | 2.982E-06 | 845 |
| 122.1 | 769 | 3.388E-07 | 1.423E-06 | 848 |
| 124.0 | 336 | 1.484E-07 | 6.231E-07 | 851 |
| 125.8 | 477 | 2.104E-07 | 8.839E-07 | 854 |
| 127.7 | 519 | 2.288E-07 | 9.609E-07 | 857 |
| 129.5 | 999 | 4.405E-07 | 1.850E-06 | 859 |
| 131.4 | 871 | 3.838E-07 | 1.612E-06 | 862 |
| 133.2 | 1110 | 4.892E-07 | 2.055E-06 | 865 |
| 135.0 | 1479 | 6.517E-07 | 2.737E-06 | 867 |
| 136.8 | 1597 | 7.038E-07 | 2.956E-06 | 869 |
| 138.7 | 1090 | 4.805E-07 | 2.018E-06 | 872 |
| 140.6 | 1611 | 7.101E-07 | 2.982E-06 | 874 |
| 142.4 | 1788 | 7.880E-07 | 3.310E-06 | 876 |
| 144.2 | 2021 | 8.905E-07 | 3.740E-06 | 878 |
| 146.0 | 903 | 3.980E-07 | 1.671E-06 | 880 |
| 147.8 | 1546 | 6.813E-07 | 2.862E-06 | 882 |
| 149.6 | 2331 | 1.027E-06 | 4.314E-06 | 884 |
| 151.4 | 1809 | 7.972E-07 | 3.348E-06 | 886 |
| 153.2 | 1244 | 5.484E-07 | 2.303E-06 | 887 |
| 155.0 | 935 | 4.121E-07 | 1.731E-06 | 889 |
| 156.8 | 855 | 3.767E-07 | 1.582E-06 | 890 |
| 158.6 | 585 | 2.579E-07 | 1.083E-06 | 892 |
| 160.4 | 16 | 7.084E-09 | 2.975E-08 | 893 |
| 162.2 | 13 | 5.834E-09 | 2.450E-08 | 894 |
| E 164.0 | 9 | 4.167E-09 | 1.750E-08 | 895 |
| E 166.0 | 0 | 0. | 0. | 896 |

CROSSWIND INTEGRATED= 4.135E-04 SEC/SQ.M 1.737E-03 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 100.0 | 0 | 0. | 0. | 1200 |
| 102.0 | 9 | 4.375E-09 | 1.837E-08 | 1200 |
| E 104.0 | 29 | 1.312E-08 | 5.512E-08 | 1200 |
| E 106.0 | 62 | 2.739E-08 | 1.150E-07 | 1200 |
| 108.0 | 104 | 4.622E-08 | 1.941E-07 | 1200 |
| 110.0 | 153 | 6.781E-08 | 2.848E-07 | 1200 |
| 112.0 | 228 | 1.008E-07 | 4.234E-07 | 1200 |
| 114.0 | 288 | 1.271E-07 | 5.336E-07 | 1200 |
| 116.0 | 253 | 1.116E-07 | 4.689E-07 | 1200 |
| 118.0 | 325 | 1.435E-07 | 6.027E-07 | 1200 |
| 120.0 | 206 | 9.092E-08 | 3.618E-07 | 1200 |
| 122.0 | 124 | 5.487E-08 | 2.305E-07 | 1200 |
| 124.0 | 112 | 4.945E-08 | 2.077E-07 | 1200 |
| 126.0 | 107 | 4.726E-08 | 1.985E-07 | 1200 |
| 128.0 | 183 | 8.103E-08 | 3.403E-07 | 1200 |
| 130.0 | 355 | 1.567E-07 | 6.582E-07 | 1200 |
| 132.0 | 261 | 1.153E-07 | 4.841E-07 | 1200 |
| 134.0 | 322 | 1.423E-07 | 5.975E-07 | 1200 |
| 136.0 | 258 | 1.137E-07 | 4.777E-07 | 1200 |
| 138.0 | 452 | 1.992E-07 | 8.368E-07 | 1200 |
| 140.0 | 601 | 2.649E-07 | 1.112E-06 | 1200 |
| 142.0 | 338 | 1.491E-07 | 6.263E-07 | 1200 |
| 144.0 | 287 | 1.266E-07 | 5.316E-07 | 1200 |
| 146.0 | 206 | 9.101E-08 | 3.822E-07 | 1200 |
| 148.0 | 195 | 8.597E-08 | 3.611E-07 | 1200 |
| 150.0 | 264 | 1.165E-07 | 4.893E-07 | 1200 |
| 152.0 | 677 | 2.984E-07 | 1.253E-06 | 1200 |
| 154.0 | 476 | 2.100E-07 | 8.819E-07 | 1200 |
| E 156.0 | 139 | 6.162E-08 | 2.588E-07 | 1200 |
| E 158.0 | 55 | 2.454E-08 | 1.031E-07 | 1200 |
| E 160.0 | 23 | 1.027E-08 | 4.314E-08 | 1200 |
| E 162.0 | 0 | 0. | 0. | 1200 |

CROSSWIND INTEGRATED= 1.312E-04 SEC/SQ.M 5.509E-04 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 104.5 | 0 | 3.178E-10 | 1.335E-09 | 1622 |
| 105.5 | 18 | 8.263E-09 | 3.470E-08 | 1623 |
| 106.5 | 67 | 2.987E-08 | 1.255E-07 | 1625 |
| 107.5 | 32 | 1.430E-08 | 6.007E-08 | 1627 |
| 108.5 | 88 | 3.877E-08 | 1.628E-07 | 1628 |
| 109.5 | 98 | 4.322E-08 | 1.815E-07 | 1630 |
| 110.4 | 66 | 2.924E-08 | 1.228E-07 | 1632 |
| 111.4 | 91 | 4.036E-08 | 1.695E-07 | 1633 |
| 112.4 | 163 | 7.182E-08 | 3.017E-07 | 1635 |
| 113.4 | 114 | 5.053E-08 | 2.122E-07 | 1637 |
| 114.4 | 198 | 8.740E-08 | 3.671E-07 | 1638 |
| 115.3 | 187 | 8.263E-08 | 3.470E-07 | 1640 |
| 116.3 | 222 | 9.708E-08 | 4.111E-07 | 1641 |
| 117.3 | 108 | 4.799E-08 | 2.016E-07 | 1643 |
| 118.2 | 58 | 2.574E-08 | 1.081E-07 | 1644 |
| 119.2 | 54 | 2.384E-08 | 1.001E-07 | 1646 |
| 120.2 | 63 | 2.797E-08 | 1.175E-07 | 1647 |
| 121.2 | 23 | 1.017E-08 | 4.271E-08 | 1649 |
| 122.1 | 111 | 4.894E-08 | 2.056E-07 | 1650 |
| 123.1 | 137 | 6.070E-08 | 2.549E-07 | 1652 |
| 124.1 | 140 | 6.197E-08 | 2.603E-07 | 1653 |
| 125.0 | 74 | 3.279E-08 | 1.375E-07 | 1655 |
| 126.0 | 199 | 8.771E-08 | 3.684E-07 | 1656 |
| 126.9 | 116 | 5.117E-08 | 2.149E-07 | 1658 |
| 127.8 | 41 | 1.843E-08 | 7.742E-08 | 1659 |
| 128.8 | 103 | 4.545E-08 | 1.909E-07 | 1660 |
| 129.7 | 69 | 3.051E-08 | 1.281E-07 | 1662 |
| 130.6 | 80 | 3.528E-08 | 1.482E-07 | 1663 |
| 131.5 | 126 | 5.562E-08 | 2.336E-07 | 1664 |
| 132.5 | 113 | 5.021E-08 | 2.109E-07 | 1665 |
| 133.5 | 166 | 7.341E-08 | 3.083E-07 | 1667 |
| 134.4 | 121 | 5.371E-08 | 2.256E-07 | 1668 |



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| | | | | |
|---|---|---|---|---|
| 135.4 | 242 | 1.068E-07 | 4.485E-07 | 1669 |
| 136.4 | 114 | 5.053E-08 | 2.122E-07 | 1670 |
| 137.3 | 119 | 5.244E-08 | 2.202E-07 | 1672 |
| 138.3 | 94 | 4.163E-08 | 1.749E-07 | 1673 |
| 139.3 | 129 | 5.721E-08 | 2.403E-07 | 1674 |
| 140.2 | 106 | 4.672E-08 | 1.962E-07 | 1675 |
| 141.2 | 305 | 1.347E-07 | 5.659E-07 | 1676 |
| 142.2 | 230 | 1.017E-07 | 4.271E-07 | 1677 |
| 143.1 | 357 | 1.576E-07 | 6.621E-07 | 1678 |
| 144.1 | 156 | 6.896E-08 | 2.896E-07 | 1679 |
| 145.1 | 310 | 1.367E-07 | 5.740E-07 | 1660 |
| 146.0 | 243 | 1.071E-07 | 4.498E-07 | 1661 |
| 146.9 | 124 | 5.466E-08 | 2.296E-07 | 1662 |
| 147.9 | 247 | 1.090E-07 | 4.578E-07 | 1683 |
| 148.8 | 113 | 5.021E-08 | 2.109E-07 | 1684 |
| 149.7 | 138 | 6.102E-08 | 2.563E-07 | 1685 |
| 150.7 | 145 | 6.388E-08 | 2.683E-07 | 1686 |
| 151.6 | 106 | 4.672E-08 | 1.962E-07 | 1687 |
| 152.6 | 183 | 8.104E-08 | 3.404E-07 | 1688 |
| 153.5 | 77 | 3.432E-08 | 1.442E-07 | 1688 |
| 154.5 | 54 | 2.384E-08 | 1.001E-07 | 1689 |
| 155.4 | 55 | 2.447E-08 | 1.028E-07 | 1690 |
| E 156.0 | 24 | 1.081E-08 | 4.534E-08 | 1690 |
| E 157.0 | 14 | 6.356E-09 | 2.670E-08 | 1691 |
| E 158.0 | 5 | 2.542E-09 | 1.068E-08 | 1692 |
| E 159.0 | 0 | 0. | 0. | 1692 |

CROSSWIND INTEGRATED= 8.533E-05 SEC/SQ.M  3.584E-04 1/M

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
32DOM ARC SAMPLER HT 1.5M U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 107.8 | 0 | 0. | 0. | 3229 |
| 108.8 | 2 | 1.287E-09 | 5.405E-09 | 3230 |
| 109.7 | 9 | 4.021E-09 | 1.689E-08 | 3232 |
| 110.7 | 8 | 3.700E-09 | 1.554E-08 | 3233 |
| 111.7 | 16 | 7.399E-09 | 3.108E-08 | 3235 |
| 112.7 | 10 | 4.504E-09 | 1.892E-08 | 3237 |
| 113.7 | 12 | 5.308E-09 | 2.229E-08 | 3238 |
| 114.6 | 23 | 1.029E-08 | 4.324E-08 | 3240 |
| 115.6 | 37 | 1.641E-08 | 6.891E-08 | 3241 |
| 116.6 | 25 | 1.142E-08 | 4.797E-08 | 3243 |
| 117.6 | 10 | 4.826E-09 | 2.027E-08 | 3245 |
| 118.6 | 20 | 8.847E-09 | 3.716E-08 | 3246 |
| 119.5 | 14 | 6.595E-09 | 2.770E-08 | 3248 |
| 120.5 | 48 | 2.123E-08 | 8.918E-08 | 3249 |
| 121.5 | 25 | 1.142E-08 | 4.797E-08 | 3251 |
| 122.4 | 29 | 1.287E-08 | 5.405E-08 | 3252 |
| 123.4 | 8 | 3.860E-09 | 1.621E-08 | 3253 |
| 124.4 | 13 | 5.951E-09 | 2.500E-08 | 3255 |
| 125.4 | 26 | 1.174E-08 | 4.932E-08 | 3256 |
| 126.3 | 35 | 1.560E-08 | 6.553E-08 | 3258 |
| 127.3 | 35 | 1.576E-08 | 6.621E-08 | 3259 |
| 128.3 | 46 | 2.043E-08 | 8.580E-08 | 3261 |
| 129.3 | 46 | 2.059E-08 | 8.647E-08 | 3262 |
| 130.3 | 47 | 2.075E-08 | 8.715E-08 | 3263 |
| 131.2 | 42 | 1.866E-08 | 7.837E-08 | 3264 |
| 132.2 | 18 | 8.043E-09 | 3.378E-08 | 3266 |
| 133.2 | 37 | 1.657E-08 | 6.958E-08 | 3267 |
| 134.2 | 9 | 4.182E-09 | 1.756E-08 | 3268 |
| 135.2 | 17 | 7.560E-09 | 3.175E-08 | 3270 |
| 136.2 | 10 | 4.655E-09 | 1.959E-08 | 3271 |
| 137.1 | 4 | 1.769E-09 | 7.431E-09 | 3272 |
| 138.1 | 4 | 1.769E-09 | 7.431E-09 | 3273 |
| 139.1 | 1 | 8.043E-10 | 3.378E-09 | 3274 |
| 140.1 | 0 | 3.217E-10 | 1.351E-09 | 3276 |
| 141.1 | 3 | 1.448E-09 | 6.080E-09 | 3277 |
| 142.0 * | 0 | 3.217E-10 | 1.351E-09 | 3278 |
| 143.0 | 7 | 3.378E-09 | 1.419E-08 | 3279 |
| 144.0 | 4 | 2.091E-09 | 8.782E-09 | 3280 |
| 145.0 | 0 | 0. | 0. | 3281 |
| 146.0 | 1 | 6.434E-10 | 2.702E-09 | 3282 |
| 146.9 | 0 | 1.609E-10 | 6.756E-10 | 3283 |
| 147.9 | 1 | 6.434E-10 | 2.702E-09 | 3284 |

CROSSWIND INTEGRATED= 1.767E-05 SEC/SQ.M  7.421E-05 1/M

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| U 102.0 | .4 | 1643 | 7.242E-07 | 3.041E-06 | 200 |
| 9 102.0 | .8 | 1733 | 7.637E-07 | 3.207E-06 | 200 |
| 102.0 | 1.5 | 2264 | 9.986E-07 | 4.194E-06 | 200 |
| 102.0 | 2.5 | 1329 | 5.858E-07 | 2.461E-06 | 200 |
| 102.0 | 4.0 | 2079 | 9.161E-07 | 3.847E-06 | 200 |
| 102.0 | 5.5 | 810 | 3.573E-07 | 1.500E-06 | 200 |
| 102.0 | 7.0 | 1690 | 7.446E-07 | 3.128E-06 | 200 |
| 102.0 | 8.5 | 1518 | 6.687E-07 | 2.809E-06 | 200 |
| 102.0 | 10.0 | 1195 | 5.266E-07 | 2.213E-06 | 200 |
| 102.0 | 13.0 | 1832 | 8.071E-07 | 3.390E-06 | 200 |
| 102.0 | 16.0 | 7509 | 3.308E-06 | 1.389E-05 | 200 |
| 102.0 | 19.0 | 11724 | 5.165E-06 | 2.169E-05 | 200 |
| 102.0 | 22.0 | 10431 | 4.595E-06 | 1.930E-05 | 200 |
| 102.0 | 25.0 | 8430 | 3.714E-06 | 1.560E-05 | 200 |
| 102.0 | 28.0 | 7392 | 3.256E-06 | 1.368E-05 | 200 |
| 102.0 | 31.0 | 6296 | 2.774E-06 | 1.165E-05 | 200 |
| 102.0 | 32.8 | 6823 | 3.006E-06 | 1.263E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 110.0 | .4 | 3783 | 1.667E-06 | 7.000E-06 | 200 |
| 110.0 | .8 | 6668 | 2.937E-06 | 1.234E-05 | 200 |
| 110.0 | 1.5 | 8118 | 3.576E-06 | 1.502E-05 | 200 |
| 110.0 | 2.5 | 5355 | 2.359E-06 | 9.909E-06 | 200 |
| 110.0 | 4.0 | 7875 | 3.469E-06 | 1.457E-05 | 200 |
| 110.0 | 5.5 | 5435 | 2.386E-06 | 1.002E-05 | 200 |
| 110.0 | 7.0 | 9488 | 4.180E-06 | 1.756E-05 | 200 |
| 110.0 | 8.5 | 13024 | 5.738E-06 | 2.410E-05 | 200 |
| 110.0 | 10.0 | 12467 | 5.492E-06 | 2.307E-05 | 200 |
| 110.0 | 13.0 | 11844 | 5.220E-06 | 2.192E-05 | 200 |
| 110.0 | 16.0 | 15820 | 6.969E-06 | 2.927E-05 | 200 |
| S 110.0 | 19.0 | 9776 | 4.306E-06 | 1.808E-05 | 200 |
| 110.0 | 22.0 | 13187 | 5.809E-06 | 2.440E-05 | 200 |
| 110.0 | 25.0 | 9093 | 4.006E-06 | 1.682E-05 | 200 |
| 110.0 | 28.0 | 14640 | 6.445E-06 | 2.709E-05 | 200 |
| 110.0 | 31.0 | 10830 | 4.771E-06 | 2.004E-05 | 200 |
| S 110.0 | 32.8 | 7356 | 3.241E-06 | 1.361E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 0 118.0 | .4 | 14866 | 6.549E-06 | 2.751E-05 | 200 |
| G 118.0 | .8 | 14653 | 6.455E-06 | 2.711E-05 | 200 |
| 4 118.0 | 1.5 | 14006 | 6.170E-06 | 2.592E-05 | 200 |
| 8 118.0 | 2.5 | 12095 | 5.328E-06 | 2.238E-05 | 200 |
| E 118.0 | 4.0 | 14961 | 6.591E-06 | 2.768E-05 | 200 |
| W 118.0 | 5.5 | 18668 | 8.224E-06 | 3.454E-05 | 200 |
| K 118.0 | 7.0 | 27893 | 1.229E-05 | 5.161E-05 | 200 |
| K 118.0 | 8.5 | 28065 | 1.237E-05 | 5.196E-05 | 200 |
| W 118.0 | 10.0 | 21558 | 9.497E-06 | 3.989E-05 | 200 |
| 118.0 | 13.0 | 30264 | 1.334E-05 | 5.603E-05 | 200 |
| 118.0 | 16.0 | 30252 | 1.333E-05 | 5.597E-05 | 200 |
| 118.0 | 19.0 | 31481 | 1.387E-05 | 5.825E-05 | 200 |
| 118.0 | 22.0 | 28830 | 1.270E-05 | 5.334E-05 | 200 |
| 118.0 | 25.0 | 19247 | 8.479E-06 | 3.561E-05 | 200 |
| 118.0 | 28.0 | 16811 | 7.406E-06 | 3.111E-05 | 200 |
| 118.0 | 31.0 | 17139 | 7.550E-06 | 3.171E-05 | 200 |
| S 118.0 | 32.8 | 9716 | 4.281E-06 | 1.798E-05 | 200 |

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
200M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 102.0 | 1.5 | 118 | 6.360E-07 | 2.671E-06 | 200 |
| 102.0 | 4.0 | 145 | 7.878E-07 | 3.288E-06 | 200 |
| 102.0 | 7.0 | 176 | 9.584E-07 | 4.027E-06 | 200 |
| 102.0 | 13.0 | 114 | 6.165E-07 | 2.589E-06 | 200 |
| 102.0 | 19.0 | 447 | 2.407E-06 | 1.011E-05 | 200 |
| 102.0 | 25.0 | 596 | 3.151E-06 | 1.323E-05 | 200 |
| 102.0 | 32.8 | 489 | 2.632E-06 | 1.106E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 110.0 | 1.5 | 549 | 3.170E-06 | 1.332E-05 | 200 |
| 110.0 | 4.0 | 569 | 3.086E-06 | 1.296E-05 | 200 |
| 110.0 | 7.0 | 498 | 2.681E-06 | 1.126E-05 | 200 |
| 110.0 | 13.0 | 966 | 5.196E-06 | 2.182E-05 | 200 |
| 110.0 | 19.0 | 928 | 4.990E-06 | 2.096E-05 | 200 |
| 110.0 | 25.0 | 646 | 3.479E-06 | 1.549E-05 | 200 |
| 110.0 | 32.8 | 946 | 5.088E-06 | 2.137E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | 1.5 | 840 | 4.521E-06 | 1.899E-05 | 200 |
| 118.0 | 4.0 | 720 | 3.875E-06 | 1.627E-05 | 200 |
| 118.0 | 7.0 | 1474 | 7.926E-06 | 3.329E-05 | 200 |
| 118.0 | 13.0 | 1512 | 8.132E-06 | 3.415E-05 | 200 |
| 118.0 | 19.0 | 1754 | 9.433E-06 | 3.962E-05 | 200 |
| 118.0 | 25.0 | 988 | 5.313E-06 | 2.232E-05 | 200 |
| 118.0 | 32.8 | 1181 | 6.350E-06 | 2.667E-05 | 200 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 9 126.0 | .4 | 3356 | 1.479E-06 | 6.210E-06 | 200 |
| 9 126.0 | .8 | 4514 | 1.989E-06 | 8.353E-06 | 200 |
| 126.0 | 1.5 | 3303 | 1.455E-06 | 6.112E-06 | 200 |
| 126.0 | 2.5 | 5134 | 2.262E-06 | 9.500E-06 | 200 |
| 126.0 | 4.0 | 9264 | 4.081E-06 | 1.714E-05 | 200 |
| 126.0 | 5.5 | 7317 | 3.223E-06 | 1.354E-05 | 200 |
| 126.0 | 7.0 | 16841 | 7.419E-06 | 3.116E-05 | 200 |
| 126.0 | 8.5 | 11893 | 5.239E-06 | 2.201E-05 | 200 |
| 126.0 | 10.0 | 13441 | 5.921E-06 | 2.487E-05 | 200 |
| 126.0 | 13.0 | 14575 | 6.421E-06 | 2.697E-05 | 200 |
| 126.0 | 16.0 | 15655 | 6.897E-06 | 2.897E-05 | 200 |
| 126.0 | 19.0 | 12143 | 5.350E-06 | 2.247E-05 | 200 |
| 126.0 | 22.0 | 10124 | 4.460E-06 | 1.873E-05 | 200 |
| 126.0 | 25.0 | 13656 | 6.016E-06 | 2.527E-05 | 200 |
| 126.0 | 28.0 | 9184 | 4.046E-06 | 1.699E-05 | 200 |
| 126.0 | 31.0 | 9876 | 4.351E-06 | 1.827E-05 | 200 |
| 126.0 | 32.8 | 11443 | 5.041E-06 | 2.117E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 126.0 | 1.5 | 360 | 1.937E-06 | 8.137E-06 | 200 |
| 126.0 | 4.0 | 602 | 3.239E-06 | 1.360E-05 | 200 |
| 126.0 | 7.0 | 1192 | 6.409E-06 | 2.692E-05 | 200 |
| 126.0 | 13.0 | 1328 | 7.143E-06 | 3.000E-05 | 200 |
| 126.0 | 19.0 | 988 | 5.313E-06 | 2.232E-05 | 200 |
| 126.0 | 25.0 | 829 | 4.462E-06 | 1.874E-05 | 200 |
| L 126.0 | 32.8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 28533 | 1.257E-05 | 5.279E-05 | 200 |
| 134.0 | .8 | 27976 | 1.232E-05 | 5.176E-05 | 200 |
| 134.0 | 1.5 | 33370 | 1.470E-05 | 6.174E-05 | 200 |
| 134.0 | 2.5 | 33071 | 1.457E-05 | 6.119E-05 | 200 |
| 134.0 | 4.0 | 37028 | 1.631E-05 | 6.851E-05 | 200 |
| 134.0 | 5.5 | 43528 | 1.918E-05 | 8.054E-05 | 200 |
| 134.0 | 7.0 | 47928 | 2.111E-05 | 8.868E-05 | 200 |
| 134.0 | 8.5 | 45233 | 1.993E-05 | 8.369E-05 | 200 |
| 134.0 | 10.0 | 34118 | 1.503E-05 | 6.313E-05 | 200 |
| 134.0 | 13.0 | 35818 | 1.578E-05 | 6.627E-05 | 200 |
| •134.0 | 16.0 | 28840 | 1.271E-05 | 5.336E-05 | 200 |
| 134.0 | 19.0 | 23442 | 1.033E-05 | 4.337E-05 | 200 |
| S 134.0 | 22.0 | 21756 | 9.585E-06 | 4.026E-05 | 200 |
| 134.0 | 25.0 | 27062 | 1.192E-05 | 5.007E-05 | 200 |
| 134.0 | 28.0 | 19466 | 8.575E-06 | 3.602E-05 | 200 |
| 134.0 | 31.0 | 27094 | 1.194E-05 | 5.013E-05 | 200 |
| 134.0 | 32.8 | 23192 | 1.022E-05 | 4.291E-05 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE CI-SEC/CU.M X10E+7 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | 1.5 | 2420 | 1.301E-05 | 5.466E-05 | 200 |
| 134.0 | 4.0 | 2744 | 1.476E-05 | 6.197E-05 | 200 |
| 134.0 | 7.0 | 3159 | 1.699E-05 | 7.134E-05 | 200 |
| 134.0 | 13.0 | 2063 | 1.110E-05 | 4.660E-05 | 200 |
| 134.0 | 19.0 | 1648 | 8.865E-06 | 3.723E-05 | 200 |
| 134.0 | 25.0 | 1759 | 9.462E-06 | 3.974E-05 | 200 |
| 134.0 | 32.8 | 1759 | 9.462E-06 | 3.974E-05 | 200 |

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 105.0 | .3 | 455 | 2.005E-07 | 8.422E-07 | 820 |
| 105.0 | .5 | 239 | 1.054E-07 | 4.428E-07 | 820 |
| 105.0 | 1.1 | 258 | 1.139E-07 | 4.785E-07 | 820 |
| 105.0 | 1.5 | 355 | 1.567E-07 | 6.581E-07 | 820 |
| 105.0 | 2.1 | 285 | 1.256E-07 | 5.274E-07 | 820 |
| 105.0 | 4.2 | 284 | 1.255E-07 | 5.271E-07 | 820 |
| 105.0 | 6.3 | 413 | 1.823E-07 | 7.656E-07 | 820 |
| 105.0 | 8.4 | 378 | 1.666E-07 | 6.999E-07 | 820 |
| 105.0 | 10.5 | 212 | 9.366E-08 | 3.934E-07 | 820 |
| 105.0 | 12.6 | 354 | 1.562E-07 | 6.561E-07 | 820 |
| 105.0 | 14.7 | 468 | 2.062E-07 | 8.660E-07 | 820 |
| 105.0 | 16.8 | 314 | 1.384E-07 | 5.812E-07 | 820 |
| 105.0 | 21.0 | 301 | 1.329E-07 | 5.584E-07 | 820 |
| 105.0 | 25.2 | 206 | 9.107E-08 | 3.825E-07 | 820 |
| S 105.0 | 29.4 | 146 | 6.450E-08 | 2.709E-07 | 820 |
| 105.0 | 33.6 | 281 | 1.239E-07 | 5.204E-07 | 820 |
| 105.0 | 37.8 | 177 | 7.798E-08 | 3.275E-07 | 820 |
| 105.0 | 42.0 | 191 | 8.445E-08 | 3.547E-07 | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 112.6 | .3 | 781 | 3.441E-07 | 1.445E-06 | 833 |
| 112.6 | .5 | 963 | 4.244E-07 | 1.783E-06 | 833 |
| 112.6 | 1.1 | 567 | 2.502E-07 | 1.051E-06 | 833 |
| 112.6 | 1.5 | 1259 | 5.547E-07 | 2.330E-06 | 833 |
| 112.6 | 2.1 | 916 | 4.039E-07 | 1.697E-06 | 833 |
| 112.6 | 4.2 | 1781 | 7.850E-07 | 3.297E-06 | 833 |
| 112.6 | 6.3 | 1168 | 5.149E-07 | 2.162E-06 | 833 |
| 112.6 | 8.4 | 1252 | 5.516E-07 | 2.317E-06 | 833 |
| T 112.6 | 10.5 | 1198 | 5.281E-07 | 2.218E-06 | 833 |
| 112.6 | 12.6 | 884 | 3.897E-07 | 1.637E-06 | 833 |
| 112.6 | 14.7 | 1199 | 5.286E-07 | 2.220E-06 | 833 |
| 112.6 | 16.8 | 861 | 3.793E-07 | 1.593E-06 | 833 |
| 112.6 | 21.0 | 946 | 4.171E-07 | 1.752E-06 | 833 |
| 112.6 | 25.2 | 1060 | 4.670E-07 | 1.962E-06 | 833 |
| T 112.6 | 29.4 | 710 | 3.131E-07 | 1.315E-06 | 833 |
| 112.6 | 33.6 | 680 | 2.996E-07 | 1.258E-06 | 833 |
| 112.6 | 37.8 | 708 | 3.122E-07 | 1.311E-06 | 833 |
| S 112.6 | 42.0 | 680 | 2.996E-07 | 1.258E-06 | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | .3 | 1575 | 6.941E-07 | 2.915E-06 | 845 |
| 120.2 | .5 | 848 | 3.738E-07 | 1.570E-06 | 845 |
| 120.2 | 1.1 | 1288 | 5.675E-07 | 2.383E-06 | 845 |
| 120.2 | 1.5 | 1611 | 7.101E-07 | 2.982E-06 | 845 |
| 120.2 | 2.1 | 1225 | 5.397E-07 | 2.267E-06 | 845 |
| 120.2 | 4.2 | 1466 | 6.459E-07 | 2.713E-06 | 845 |
| 120.2 | 6.3 | 782 | 3.447E-07 | 1.448E-06 | 845 |
| 120.2 | 8.4 | 973 | 4.290E-07 | 1.802E-06 | 845 |
| 120.2 | 10.5 | 937 | 4.131E-07 | 1.735E-06 | 845 |
| 120.2 | 12.6 | 1037 | 4.571E-07 | 1.920E-06 | 845 |
| 120.2 | 14.7 | 804 | 3.544E-07 | 1.489E-06 | 845 |
| 120.2 | 16.8 | 1185 | 5.221E-07 | 2.193E-06 | 845 |
| 120.2 | 21.0 | 1184 | 5.216E-07 | 2.192E-06 | 845 |
| 120.2 | 25.2 | 575 | 2.534E-07 | 1.064E-06 | 845 |
| 120.2 | 29.4 | 788 | 3.474E-07 | 1.459E-06 | 845 |
| 120.2 | 33.6 | 464 | 2.048E-07 | 8.602E-07 | 845 |
| 120.2 | 37.8 | 1032 | 4.549E-07 | 1.911E-06 | 845 |
| 120.2 | 42.0 | 715 | 3.150E-07 | 1.323E-06 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 479 | 2.112E-07 | 8.870E-07 | 857 |
| 127.7 | .5 | 427 | 1.885E-07 | 7.916E-07 | 857 |
| 127.7 | 1.1 | 587 | 2.590E-07 | 1.088E-06 | 857 |
| 127.7 | 1.5 | 519 | 2.288E-07 | 9.609E-07 | 857 |
| 127.7 | 2.1 | 642 | 2.828E-07 | 1.188E-06 | 857 |
| 127.7 | 4.2 | 626 | 2.759E-07 | 1.159E-06 | 857 |
| 127.7 | 6.3 | 669 | 2.947E-07 | 1.238E-06 | 857 |
| 127.7 | 8.4 | 635 | 2.799E-07 | 1.176E-06 | 857 |
| 127.7 | 10.5 | 429 | 1.894E-07 | 7.956E-07 | 857 |
| 127.7 | 12.6 | 552 | 2.432E-07 | 1.022E-06 | 857 |
| 127.7 | 14.7 | 603 | 2.658E-07 | 1.117E-06 | 857 |
| 127.7 | 16.8 | 745 | 3.282E-07 | 1.378E-06 | 857 |
| 127.7 | 21.0 | 662 | 2.916E-07 | 1.226E-06 | 857 |
| 127.7 | 25.2 | 622 | 2.742E-07 | 1.152E-06 | 857 |
| F 127.7 | 29.4 | 250 | 1.105E-07 | 4.642E-07 | 857 |
| 127.7 | 33.6 | 494 | 2.178E-07 | 9.146E-07 | 857 |
| 127.7 | 37.8 | 318 | 1.402E-07 | 5.890E-07 | 857 |
| 127.7 | 42.0 | 249 | 1.097E-07 | 4.608E-07 | 857 |



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| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 1614 | 7.113E-07 | 2.988E-06 | 867 |
| 135.0 | .5 | 276 | 1.218E-07 | 5.118E-07 | 867 |
| 135.0 | 1.1 | 1543 | 6.801E-07 | 2.856E-06 | 867 |
| 135.0 | 1.5 | 1479 | 6.517E-07 | 2.737E-06 | 867 |
| 135.0 | 2.1 | 1556 | 6.856E-07 | 2.879E-06 | 867 |
| 135.0 | 4.2 | 2093 | 9.222E-07 | 3.873E-06 | 867 |
| W 135.0 | 6.3 | 523 | 2.308E-07 | 9.693E-07 | 867 |
| W 135.0 | 8.4 | 484 | 2.136E-07 | 8.971E-07 | 867 |
| W 135.0 | 10.5 | 756 | 3.334E-07 | 1.400E-06 | 867 |
| W 135.0 | 12.6 | 566 | 2.495E-07 | 1.048E-06 | 867 |
| W 135.0 | 14.7 | 616 | 2.716E-07 | 1.141E-06 | 867 |
| W 135.0 | 16.8 | 319 | 1.406E-07 | 5.912E-07 | 867 |
| W 135.0 | 21.0 | 625 | 2.755E-07 | 1.157E-06 | 867 |
| W 135.0 | 25.2 | 754 | 3.325E-07 | 1.397E-06 | 867 |
| W 135.0 | 29.4 | 562 | 2.476E-07 | 1.040E-06 | 867 |
| W 135.0 | 33.6 | 614 | 2.709E-07 | 1.138E-06 | 867 |
| W 135.0 | 37.8 | 467 | 2.148E-07 | 9.023E-07 | 867 |
| W 135.0 | 42.0 | 484 | 2.136E-07 | 8.971E-07 | 867 |

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| W 101.8 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 109.5 | .2 | 54 | 2.387E-08 | 1.002E-07 | 1630 |
| 109.5 | .4 | 78 | 3.436E-08 | 1.443E-07 | 1630 |
| 109.5 | .8 | 39 | 1.757E-08 | 7.381E-08 | 1630 |
| 109.5 | 1.5 | 98 | 4.322E-08 | 1.815E-07 | 1630 |
| 109.5 | 1.6 | 44 | 1.970E-08 | 8.276E-08 | 1630 |
| 109.5 | 3.1 | 121 | 5.359E-08 | 2.251E-07 | 1630 |
| 109.5 | 6.2 | 117 | 5.169E-08 | 2.171E-07 | 1630 |
| 109.5 | 9.3 | 112 | 4.976E-08 | 2.090E-07 | 1630 |
| 109.5 | 12.4 | 52 | 2.326E-08 | 9.769E-08 | 1630 |
| 109.5 | 15.5 | 119 | 5.250E-08 | 2.205E-07 | 1630 |
| 109.5 | 18.6 | 76 | 3.346E-08 | 1.406E-07 | 1630 |
| 109.5 | 21.7 | 99 | 4.378E-08 | 1.839E-07 | 1630 |
| 109.5 | 24.8 | 83 | 3.696E-08 | 1.552E-07 | 1630 |
| 109.5 | 31.0 | 60 | 2.663E-08 | 1.118E-07 | 1630 |
| 109.5 | 37.2 | 98 | 4.352E-08 | 1.828E-07 | 1630 |
| 109.5 | 43.4 | 79 | 3.516E-08 | 1.477E-07 | 1630 |
| 109.5 | 49.6 | 40 | 1.781E-08 | 7.481E-08 | 1630 |
| 109.5 | 55.8 | 51 | 2.262E-08 | 9.499E-08 | 1630 |
| 109.5 | 62.0 | 17 | 7.775E-09 | 3.265E-08 | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 117.3 | .2 | 66 | 2.934E-08 | 1.232E-07 | 1643 |
| 117.3 | .4 | 67 | 2.960E-08 | 1.243E-07 | 1643 |
| 117.3 | .8 | 70 | 3.117E-08 | 1.309E-07 | 1643 |
| 117.3 | 1.5 | 108 | 4.799E-08 | 2.016E-07 | 1643 |
| 117.3 | 1.6 | 126 | 5.593E-08 | 2.349E-07 | 1643 |
| 117.3 | 3.1 | 156 | 6.912E-08 | 2.903E-07 | 1643 |
| 117.3 | 6.2 | 99 | 4.369E-08 | 1.835E-07 | 1643 |
| E 117.3 | 9.3 | 102 | 4.501E-08 | 1.890E-07 | 1643 |
| 117.3 | 12.4 | 104 | 4.624E-08 | 1.942E-07 | 1643 |
| 117.3 | 15.5 | 91 | 4.019E-08 | 1.687E-07 | 1643 |
| 117.3 | 18.6 | 176 | 7.794E-08 | 3.274E-07 | 1643 |
| 117.3 | 21.7 | 65 | 2.884E-08 | 1.211E-07 | 1643 |
| 117.3 | 24.8 | 137 | 6.057E-08 | 2.544E-07 | 1643 |
| 117.3 | 31.0 | 86 | 3.793E-08 | 1.593E-07 | 1643 |
| 117.3 | 37.2 | 118 | 5.213E-08 | 2.189E-07 | 1643 |
| 117.3 | 43.4 | 163 | 7.205E-08 | 3.026E-07 | 1643 |
| 117.3 | 49.6 | 94 | 4.164E-08 | 1.749E-07 | 1643 |
| 117.3 | 55.8 | 143 | 6.338E-08 | 2.662E-07 | 1643 |
| 117.3 | 62.0 | 71 | 3.133E-08 | 1.316E-07 | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 125.0 | .2 | 91 | 4.030E-08 | 1.693E-07 | 1655 |
| 125.0 | .4 | 45 | 2.007E-08 | 8.430E-08 | 1655 |
| 125.0 | .8 | 118 | 5.206E-08 | 2.186E-07 | 1655 |
| 125.0 | 1.5 | 74 | 3.273E-08 | 1.375E-07 | 1655 |
| 125.0 | 1.6 | 89 | 3.941E-08 | 1.655E-07 | 1655 |
| 125.0 | 3.1 | 131 | 5.786E-08 | 2.430E-07 | 1655 |
| S 125.0 | 6.2 | 71 | 3.170E-08 | 1.331E-07 | 1655 |
| S 125.0 | 9.3 | 126 | 5.591E-08 | 2.348E-07 | 1655 |
| 125.0 | 12.4 | 149 | 6.567E-08 | 2.758E-07 | 1655 |
| T 125.0 | 15.5 | 36 | 1.607E-08 | 6.750E-08 | 1655 |
| 125.0 | 18.6 | 148 | 6.545E-08 | 2.745E-07 | 1655 |
| E 125.0 | 21.7 | 117 | 5.191E-08 | 2.180E-07 | 1655 |
| 125.0 | 24.8 | 89 | 3.977E-08 | 1.669E-07 | 1655 |
| 125.0 | 31.0 | 48 | 2.135E-08 | 8.968E-08 | 1655 |
| 125.0 | 37.2 | 128 | 5.656E-08 | 2.375E-07 | 1655 |
| 125.0 | 43.4 | 60 | 2.656E-08 | 1.115E-07 | 1655 |
| 125.0 | 49.6 | 16 | 7.221E-09 | 3.033E-08 | 1655 |
| 125.0 | 55.8 | 97 | 4.288E-08 | 1.801E-07 | 1655 |
| 125.0 | 62.0 | 74 | 3.298E-08 | 1.385E-07 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 47 | 2.074E-08 | 8.709E-08 | 1665 |
| 132.5 | .4 | 50 | 2.245E-08 | 9.431E-08 | 1665 |
| 132.5 | .8 | 21 | 9.284E-09 | 3.899E-08 | 1665 |
| 132.5 | 1.5 | 113 | 5.021E-08 | 2.109E-07 | 1665 |
| 132.5 | 1.6 | 64 | 2.860E-08 | 1.201E-07 | 1665 |
| 132.5 | 3.1 | 78 | 3.471E-08 | 1.458E-07 | 1665 |
| 132.5 | 6.2 | 123 | 5.455E-08 | 2.291E-07 | 1665 |
| 132.5 | 9.3 | 86 | 3.830E-08 | 1.609E-07 | 1665 |
| T 132.5 | 12.4 | 103 | 4.570E-08 | 1.919E-07 | 1665 |
| 132.5 | 15.5 | 119 | 5.277E-08 | 2.216E-07 | 1665 |
| 132.5 | 18.6 | 135 | 5.973E-08 | 2.509E-07 | 1665 |
| S 132.5 | 21.7 | 147 | 6.502E-08 | 2.731E-07 | 1665 |
| E 132.5 | 24.8 | 138 | 6.108E-08 | 2.565E-07 | 1665 |
| W 132.5 | 31.0 | 130 | 5.728E-08 | 2.406E-07 | 1665 |
| W 132.5 | 37.2 | 85 | 3.762E-08 | 1.580E-07 | 1665 |
| W 132.5 | 43.4 | 73 | 3.221E-08 | 1.353E-07 | 1665 |
| W 132.5 | 49.6 | 57 | 2.551E-08 | 1.072E-07 | 1665 |
| W 132.5 | 55.8 | 33 | 1.461E-08 | 6.135E-08 | 1665 |
| W 132.5 | 62.0 | 72 | 3.204E-08 | 1.346E-07 | 1665 |

TOWER DATA FOLLOW....

TEST V7 SEPTEMBER 25, 1973 1:01 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
3200M ARC U= 4.2 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3227 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 115.6 | .2 | 11 | 4.954E-09 | 2.081E-08 | 3241 |
| 4 115.6 | .4 | 13 | 5.896E-09 | 2.477E-08 | 3241 |
| 4 115.6 | .8 | 8 | 3.876E-09 | 1.628E-08 | 3241 |
| 115.6 | 1.5 | 37 | 1.641E-08 | 6.891E-08 | 3241 |
| 115.6 | 1.6 | 14 | 6.434E-09 | 2.702E-08 | 3241 |
| 115.6 | 3.1 | 28 | 1.271E-08 | 5.337E-08 | 3241 |
| 115.6 | 6.2 | 23 | 1.046E-08 | 4.391E-08 | 3241 |
| 115.6 | 9.3 | 24 | 1.094E-08 | 4.594E-08 | 3241 |
| 115.6 | 12.4 | 15 | 6.770E-09 | 2.843E-08 | 3241 |
| 115.6 | 15.5 | 13 | 6.139E-09 | 2.579E-08 | 3241 |
| 115.6 | 18.6 | 20 | 8.902E-09 | 3.739E-08 | 3241 |
| 115.6 | 21.7 | 14 | 6.200E-09 | 2.608E-08 | 3241 |
| 115.6 | 24.8 | 24 | 1.076E-08 | 4.518E-08 | 3241 |
| 115.6 | 31.0 | 13 | 6.043E-09 | 2.538E-08 | 3241 |
| 115.6 | 37.2 | 20 | 8.870E-09 | 3.725E-08 | 3241 |
| S 115.6 | 43.4 | 14 | 6.543E-09 | 2.748E-08 | 3241 |
| 115.6 | 49.6 | 10 | 4.734E-09 | 1.986E-08 | 3241 |
| 115.6 | 55.8 | 10 | 4.670E-09 | 1.962E-08 | 3241 |
| 115.6 | 62.0 | 12 | 5.519E-09 | 2.318E-08 | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 123.4 | .2 | 18 | 7.967E-09 | 3.344E-08 | 3253 |
| 123.4 | .4 | 11 | 5.224E-09 | 2.194E-08 | 3253 |
| 123.4 | .8 | 20 | 8.931E-09 | 3.751E-08 | 3253 |
| 123.4 | 1.5 | 8 | 3.860E-09 | 1.621E-08 | 3253 |
| 123.4 | 1.6 | 15 | 6.917E-09 | 2.905E-08 | 3253 |
| 123.4 | 3.1 | 21 | 9.651E-09 | 4.053E-08 | 3253 |
| 123.4 | 6.2 | 16 | 8.043E-09 | 3.378E-08 | 3253 |
| T 123.4 | 9.3 | 6 | 2.895E-09 | 1.216E-08 | 3253 |
| 123.4 | 12.4 | 45 | 1.985E-08 | 8.336E-08 | 3253 |
| M 123.4 | 15.5 | 4 | 2.149E-09 | 9.025E-09 | 3253 |
| 123.4 | 18.6 | 20 | 9.056E-09 | 3.803E-08 | 3253 |
| T 123.4 | 21.7 | 3 | 1.363E-09 | 5.724E-09 | 3253 |
| T 123.4 | 24.8 | 6 | 2.988E-09 | 1.255E-08 | 3253 |
| 123.4 | 31.0 | 24 | 1.061E-08 | 4.457E-08 | 3253 |
| 123.4 | 37.2 | 7 | 3.199E-09 | 1.344E-08 | 3253 |
| 123.4 | 43.4 | 10 | 4.508E-09 | 1.893E-08 | 3253 |
| 123.4 | 49.6 | 40 | 1.793E-08 | 7.531E-08 | 3253 |
| 123.4 | 55.8 | 17 | 7.925E-09 | 3.329E-08 | 3253 |
| T 123.4 | 62.0 | 21 | 9.341E-09 | 3.923E-08 | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 131.2 | .2 | 4 | 1.946E-09 | 8.174E-09 | 3264 |
| 131.2 | .4 | 7 | 3.370E-09 | 1.415E-08 | 3264 |
| 131.2 | .8 | 13 | 6.066E-09 | 2.548E-08 | 3264 |
| 131.2 | 1.5 | 42 | 1.866E-08 | 7.837E-08 | 3264 |
| 131.2 | 1.6 | 16 | 7.238E-09 | 3.040E-08 | 3264 |
| 131.2 | 3.1 | 39 | 1.721E-08 | 7.229E-08 | 3264 |
| 131.2 | 6.2 | 37 | 1.673E-08 | 7.026E-08 | 3264 |
| 131.2 | 9.3 | 20 | 9.169E-09 | 3.851E-08 | 3264 |
| E 131.2 | 12.4 | 0 | 3.077E-10 | 1.292E-09 | 3264 |
| 131.2 | 15.5 | 39 | 1.734E-08 | 7.284E-08 | 3264 |
| S 131.2 | 18.6 | 29 | 1.305E-08 | 5.479E-08 | 3264 |
| 131.2 | 21.7 | 37 | 1.651E-08 | 6.932E-08 | 3264 |
| 131.2 | 24.8 | 39 | 1.735E-08 | 7.278E-08 | 3264 |
| 131.2 | 31.0 | 36 | 1.621E-08 | 6.809E-08 | 3264 |
| 131.2 | 37.2 | 43 | 1.905E-08 | 8.000E-08 | 3264 |
| 131.2 | 43.4 | 72 | 3.213E-08 | 1.350E-07 | 3264 |
| 131.2 | 49.6 | 90 | 3.974E-08 | 1.669E-07 | 3264 |
| E 131.2 | 55.8 | 66 | 2.944E-08 | 1.236E-07 | 3264 |
| 131.2 | 62.0 | 43 | 1.925E-08 | 8.084E-08 | 3264 |

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ONLY ZINC SULFIDE TRACER RELEASED. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION. ABOUT HALF OF TWENTY TOWERS EXPOSED TO TRACER, BUT ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. TOTAL "U" KNOWN, BUT RATE OF TRACER EMISSION WAS LIKELY NOT CONSTANT.

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 118.0 | 0 | 0. | 0. | 200 |
| 120.0 | 713 | 2.547E-06 | 7.640E-06 | 200 |
| 122.0 | 1492 | 5.331E-06 | 1.599E-05 | 200 |
| 124.0 | 2635 | 9.412E-06 | 2.824E-05 | 200 |
| 126.0 | 6889 | 2.461E-05 | 7.382E-05 | 200 |
| 128.0 | 18754 | 6.698E-05 | 2.009E-04 | 200 |
| 130.0 | 27677 | 9.885E-05 | 2.965E-04 | 200 |
| 132.0 | 18663 | 6.666E-05 | 2.000E-04 | 200 |
| 134.0 | 18328 | 6.546E-05 | 1.964E-04 | 200 |
| 136.0 | 13501 | 4.822E-05 | 1.447E-04 | 200 |
| 138.0 | 6621 | 2.365E-05 | 7.095E-05 | 200 |
| 140.0 | 3424 | 1.223E-05 | 3.669E-05 | 200 |
| 142.0 | 583 | 2.084E-06 | 6.252E-06 | 200 |
| 144.0 | 64 | 2.291E-07 | 6.874E-07 | 200 |
| 146.0 | 0 | 0. | 0. | 200 |

CROSSWIND INTEGRATED= 2.976E-03 SEC/SQ.M 8.927E-03 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
400M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 110.0 | 0 | 2.765E-09 | 8.294E-09 | 400 |
| 114.0 | 8 | 3.041E-08 | 9.123E-08 | 400 |
| 118.0 | 3 | 1.106E-08 | 3.318E-08 | 400 |
| 122.0 | 683 | 2.440E-06 | 7.319E-06 | 400 |
| 126.0 | 5064 | 1.809E-05 | 5.427E-05 | 400 |
| 130.0 | 14231 | 5.083E-05 | 1.525E-04 | 400 |
| 134.0 | 6370 | 2.275E-05 | 6.825E-05 | 400 |
| 138.0 | 6607 | 2.360E-05 | 7.079E-05 | 400 |
| 142.0 | 270 | 9.662E-07 | 2.899E-06 | 400 |
| 146.0 | 8 | 3.041E-08 | 9.123E-08 | 400 |
| 150.0 | 1 | 5.529E-09 | 1.659E-08 | 400 |

CROSSWIND INTEGRATED= 3.316E-03 SEC/SQ.M 9.948E-03 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
800M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 120.2 | 0 | 0. | 0. | 845 |
| 122.1 | 229. | 8.197E-07 | 2.459E-06 | 848 |
| M 124.0 | 977 | 3.492E-06 | 1.048E-05 | 851 |
| S 125.8 | 1180 | 4.216E-06 | 1.265E-05 | 854 |
| 127.7 | 5583 | 1.994E-05 | 5.982E-05 | 857 |
| 129.5 | 6166 | 2.202E-05 | 6.607E-05 | 859 |
| 131.4 | 7356 | 2.627E-05 | 7.882E-05 | 862 |
| 133.2 | 1640 | 5.859E-06 | 1.758E-05 | 865 |
| 135.0 | 6113 | 2.184E-05 | 6.551E-05 | 867 |
| 136.8 | 5821 | 2.079E-05 | 6.237E-05 | 869 |
| 138.7 | 2685 | 9.590E-06 | 2.877E-05 | 872 |
| 140.6 | 1601 | 5.721E-06 | 1.716E-05 | 874 |
| 142.4 | 297 | 1.062E-06 | 3.187E-06 | 876 |
| 144.2 | 15 | 5.437E-08 | 1.631E-07 | 878 |
| Z 146.0 | 4 | 1.673E-08 | 5.019E-08 | 880 |
| Z 147.8 | 0 | 0. | 0. | 882 |

CROSSWIND INTEGRATED= 3.936E-03 SEC/SQ.M 1.181E-02 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1200M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 4 116.0 | 0 | 0. | 0. | 1200 |
| 118.0 | 1 | 4.857E-09 | 1.457E-08 | 1200 |
| Z 120.0 | 1 | 5.667E-09 | 1.700E-08 | 1200 |
| Z 122.0 | 68 | 2.453E-07 | 7.359E-07 | 1200 |
| S 124.0 | 592 | 2.118E-06 | 6.353E-06 | 1200 |
| S 126.0 | 1966 | 7.023E-06 | 2.107E-05 | 1200 |
| 4 128.0 | 46 | 1.668E-07 | 5.003E-07 | 1200 |
| 130.0 | 124 | 4.461E-07 | 1.338E-06 | 1200 |
| Z 132.0 | 4220 | 1.507E-05 | 4.522E-05 | 1200 |
| 134.0 | 14397 | 5.142E-05 | 1.543E-04 | 1200 |
| 136.0 | 5457 | 1.949E-05 | 5.847E-05 | 1200 |
| 4 138.0 | 4605 | 1.645E-05 | 4.935E-05 | 1200 |
| S 140.0 | 1214 | 4.338E-06 | 1.301E-05 | 1200 |
| 142.0 | 1240 | 4.431E-06 | 1.329E-05 | 1200 |
| E 144.0 | 158 | 5.651E-07 | 1.695E-06 | 1200 |
| E 146.0 | 6 | 2.267E-08 | 6.800E-08 | 1200 |

CROSSWIND INTEGRATED= 5.102E-03 SEC/SQ.M 1.531E-02 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
16000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 122.1 | 0 | 0. | 0. | 1650 |
| 123.1 | 8 | 3.172E-08 | 9.516E-08 | 1652 |
| 124.1 | 75 | 2.682E-07 | 8.045E-07 | 1653 |
| 125.0 | 349 | 1.249E-06 | 3.746E-06 | 1655 |
| 126.0 | 188 | 6.719E-07 | 2.016E-06 | 1656 |
| 126.9 | 146 | 5.248E-07 | 1.574E-06 | 1658 |
| 127.8 | 1239 | 4.426E-06 | 1.328E-05 | 1659 |
| 128.8 | 2234 | 7.982E-06 | 2.394E-05 | 1660 |
| 129.7 | 3891 | 1.390E-05 | 4.170E-05 | 1662 |
| 130.6 | 4157 | 1.485E-05 | 4.454E-05 | 1663 |
| S 131.5 | 788 | 2.817E-06 | 8.452E-06 | 1664 |
| 132.5 | 723 | 2.584E-06 | 7.751E-06 | 1665 |
| 133.5 | 5576 | 1.992E-05 | 5.975E-05 | 1667 |
| 134.4 | 5369 | 1.918E-05 | 5.753E-05 | 1668 |
| 135.4 | 4119 | 1.471E-05 | 4.413E-05 | 1669 |
| 136.4 | 4373 | 1.562E-05 | 4.686E-05 | 1670 |
| 137.3 | 4895 | 1.748E-05 | 5.245E-05 | 1672 |
| Z 138.3 | 2879 | 1.028E-05 | 3.085E-05 | 1673 |
| 139.3 | 1641 | 6.577E-06 | 1.973E-05 | 1674 |
| 140.2 | 3099 | 1.107E-05 | 3.321E-05 | 1675 |
| 141.2 | 402 | 1.439E-06 | 4.317E-06 | 1676 |
| W 142.2 | 121 | 4.354E-07 | 1.306E-06 | 1677 |
| W 143.1 | 148 | 5.306E-07 | 1.592E-06 | 1678 |
| W 144.1 | 12 | 4.614E-08 | 1.384E-07 | 1679 |
| W 145.1 | 1 | 5.767E-09 | 1.730E-08 | 1680 |
| W 146.0 | 31 | 1.125E-07 | 3.374E-07 | 1681 |
| L 146.9 | 0 | 0. | 0. | 1682 |

CROSSWIND INTEGRATED= 4.610E-03 SEC/SQ.M 1.383E-02 1/M

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
32000M ARC SAMPLER HT 1.5M U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | EXPOSURE GM-SEC/CU.M X10E+6 | E/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|
| 127.3 | 4 | 1.639E-08 | 4.918E-08 | 3259 |
| 128.3 | 1 | 4.098E-09 | 1.230E-08 | 3261 |
| 129.3 | 50 | 1.817E-07 | 5.451E-07 | 3262 |
| 130.3 | 253 | 9.059E-07 | 2.717E-06 | 3263 |
| E 131.2 | 381 | 1.363E-06 | 4.090E-06 | 3264 |
| E 132.2 | 573 | 2.046E-06 | 6.139E-06 | 3266 |
| E 133.2 | 840 | 3.003E-06 | 9.008E-06 | 3267 |
| 134.2 | 1327 | 4.742E-06 | 1.423E-05 | 3268 |
| 135.2 | 1250 | 4.465E-06 | 1.339E-05 | 3270 |
| 136.2 | 1274 | 4.553E-06 | 1.366E-05 | 3271 |
| 137.1 | 2386 | 8.522E-06 | 2.557E-05 | 3272 |
| 138.1 | 2346 | 8.381E-06 | 2.514E-05 | 3273 |
| 139.1 | 1965 | 7.021E-06 | 2.106E-05 | 3274 |
| P 140.1 | 1790 | 6.395E-06 | 1.918E-05 | 3276 |
| P 141.1 | 179 | 6.421E-07 | 1.926E-06 | 3277 |
| P 142.0 | 1502 | 5.366E-06 | 1.610E-05 | 3278 |
| 143.0 | 4 | 1.776E-08 | 5.328E-08 | 3279 |
| 144.0 | 1 | 5.465E-09 | 1.639E-08 | 3280 |
| 145.0 | 0 | 0. | 0. | 3281 |
| 146.0 | 22 | 8.060E-08 | 2.418E-07 | 3282 |
| 146.9 | 25 | 9.017E-08 | 2.705E-07 | 3283 |
| 147.9 | 8 | 3.006E-08 | 9.017E-08 | 3284 |
| 148.9 | 1 | 5.465E-09 | 1.639E-08 | 3285 |
| 149.9 | 0 | 2.732E-09 | 8.197E-09 | 3286 |

CROSSWIND INTEGRATED= 3.242E-03 SEC/SQ.M 9.725E-03 1/M

TOWER DATA FOLLOW....

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
200M ARC U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 102.0 | .4 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| Z 110.0 | .4 | 0 | 0. | 0. | 200 |
| Z 110.0 | 1.5 | 1 | 4.324E-09 | 1.297E-08 | 200 |
| Z 110.0 | 5.5 | 0 | 0. | 0. | 200 |
| 4 110.0 | 10.0 | 187 | 6.683E-07 | 2.005E-06 | 200 |
| Z 110.0 | 13.0 | 86 | 3.103E-07 | 9.308E-07 | 200 |
| Z 110.0 | 16.0 | 38 | 1.377E-07 | 4.131E-07 | 200 |
| 5 110.0 | 19.0 | 82 | 2.945E-07 | 8.835E-07 | 200 |
| 5 110.0 | 22.0 | 152 | 5.451E-07 | 1.635E-06 | 200 |
| 4 110.0 | 25.0 | 5 | 1.836E-08 | 5.509E-08 | 200 |
| 5 110.0 | 28.0 | 1 | 3.673E-09 | 1.102E-08 | 200 |
| S 110.0 | 31.0 | 0 | 0. | 0. | 200 |
| E 110.0 | 32.8 | 0 | 0. | 0. | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 118.0 | 1.5 | 0 | 0. | 0. | 200 |
| 118.0 | 16.0 | 1 | 3.825E-09 | 1.147E-08 | 200 |
| 118.0 | 19.0 | 11 | 4.207E-08 | 1.262E-07 | 200 |
| 118.0 | 22.0 | 150 | 5.377E-07 | 1.613E-06 | 200 |
| 118.0 | 25.0 | 3 | 1.102E-08 | 3.305E-08 | 200 |
| 118.0 | 28.0 | 66 | 2.387E-07 | 7.162E-07 | 200 |
| 118.0 | 31.0 | 4 | 1.433E-08 | 4.298E-08 | 200 |
| 118.0 | 32.8 | 10 | 3.581E-08 | 1.074E-07 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 126.0 | .4 | 1564 | 5.659E-06 | 1.698E-05 | 200 |
| 126.0 | .8 | 2838 | 1.014E-05 | 3.042E-05 | 200 |
| 126.0 | 1.5 | 6869 | 2.461E-05 | 7.382E-05 | 200 |
| 126.0 | 2.5 | 7228 | 2.582E-05 | 7.745E-05 | 200 |
| 126.0 | 4.0 | 9542 | 3.406E-05 | 1.022E-04 | 200 |
| 126.0 | 5.5 | 8906 | 3.181E-05 | 9.543E-05 | 200 |
| 126.0 | 7.0 | 13046 | 4.659E-05 | 1.396E-04 | 200 |
| 126.0 | 8.5 | 16330 | 5.832E-05 | 1.750E-04 | 200 |
| 126.0 | 10.0 | 26733 | 9.545E-05 | 2.864E-04 | 200 |
| 126.0 | 13.0 | 34477 | 1.231E-04 | 3.694E-04 | 200 |
| 126.0 | 16.0 | 37879 | 1.353E-04 | 4.058E-04 | 200 |
| 126.0 | 19.0 | 36301 | 1.296E-04 | 3.889E-04 | 200 |
| 126.0 | 22.0 | 43209 | 1.543E-04 | 4.630E-04 | 200 |
| 126.0 | 25.0 | 61156 | 2.184E-04 | 6.552E-04 | 200 |
| 126.0 | 28.0 | 46928 | 1.676E-04 | 5.028E-04 | 200 |
| 126.0 | 31.0 | 34554 | 1.234E-04 | 3.702E-04 | 200 |
| 126.0 | 32.8 | 48929 | 1.747E-04 | 5.242E-04 | 200 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 134.0 | .4 | 14029 | 5.010E-05 | 1.503E-04 | 200 |
| 134.0 | .8 | 14757 | 5.270E-05 | 1.581E-04 | 200 |
| 134.0 | 1.5 | 18428 | 6.580E-05 | 1.964E-04 | 200 |
| 134.0 | 2.5 | 16528 | 5.903E-05 | 1.771E-04 | 200 |
| 134.0 | 4.0 | 11326 | 4.045E-05 | 1.214E-04 | 200 |
| 134.0 | 5.5 | 14950 | 5.340E-05 | 1.602E-04 | 200 |
| 134.0 | 7.0 | 22798 | 8.142E-05 | 2.443E-04 | 200 |
| 134.0 | 8.5 | 17972 | 6.419E-05 | 1.926E-04 | 200 |
| 134.0 | 10.0 | 22045 | 7.873E-05 | 2.362E-04 | 200 |
| 134.0 | 13.0 | 29062 | 1.038E-04 | 3.114E-04 | 200 |
| 134.0 | 16.0 | 38533 | 1.376E-04 | 4.129E-04 | 200 |
| 134.0 | 19.0 | 37188 | 1.328E-04 | 3.984E-04 | 200 |
| 134.0 | 22.0 | 42446 | 1.516E-04 | 4.548E-04 | 200 |
| 134.0 | 25.0 | 111119 | 3.969E-04 | 1.191E-03 | 200 |
| 134.0 | 28.0 | 110223 | 3.937E-04 | 1.181E-03 | 200 |
| 134.0 | 31.0 | 45989 | 1.642E-04 | 4.927E-04 | 200 |
| 134.0 | 32.8 | 61823 | 2.208E-04 | 6.624E-04 | 200 |

TOWER DATA FOLLOW....

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
BOOM ARC U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 105.0 | .3 | 0 | 0. | 0. | 820 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 112.6 | .3 | 0 | 0. | 0. | 833 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 120.2 | 1.5 | 0 | 0. | 0. | 845 |
| 120.2 | 16.8 | 14 | 5.180E-08 | 1.554E-07 | 845 |
| 120.2 | 21.0 | 24 | 8.907E-08 | 2.672E-07 | 845 |
| 120.2 | 25.2 | 6 | 2.487E-08 | 7.460E-08 | 845 |
| 120.2 | 29.4 | 4 | 1.732E-08 | 5.197E-08 | 845 |
| 120.2 | 33.6 | 14 | 5.197E-08 | 1.559E-07 | 845 |
| 120.2 | 37.8 | 12 | 4.392E-08 | 1.318E-07 | 845 |
| 120.2 | 42.0 | 71 | 2.537E-07 | 7.610E-07 | 845 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 127.7 | .3 | 5498 | 2.147E-05 | 6.427E-05 | 857 |
| 127.7 | .5 | 4246 | 1.517E-05 | 4.555E-05 | 857 |
| 127.7 | 1.1 | 5075 | 1.813E-05 | 5.436E-05 | 857 |
| 127.7 | 1.5 | 5583 | 1.994E-05 | 5.982E-05 | 857 |
| 127.7 | 2.1 | 5475 | 1.956E-05 | 5.867E-05 | 857 |
| 127.7 | 4.2 | 4806 | 1.717E-05 | 5.150E-05 | 857 |
| 127.7 | 6.3 | 4652 | 1.661E-05 | 4.984E-05 | 857 |
| 127.7 | 8.4 | 4262 | 1.522E-05 | 4.566E-05 | 857 |
| 127.7 | 10.5 | 1329 | 4.748E-06 | 1.424E-05 | 857 |
| 127.7 | 12.6 | 4251 | 1.518E-05 | 4.555E-05 | 857 |
| 127.7 | 14.7 | 9047 | 3.231E-05 | 9.694E-05 | 857 |
| 127.7 | 16.8 | 4209 | 1.504E-05 | 4.511E-05 | 857 |
| 127.7 | 21.0 | 3337 | 1.192E-05 | 3.576E-05 | 857 |
| M 127.7 | 25.2 | 2408 | 8.601E-06 | 2.580E-05 | 857 |
| M 127.7 | 29.4 | 1562 | 5.580E-06 | 1.610E-05 | 857 |
| 127.7 | 33.6 | 3049 | 1.089E-05 | 3.266E-05 | 857 |
| 127.7 | 37.8 | 960 | 3.430E-06 | 1.050E-05 | 857 |
| 127.7 | 42.0 | 1445 | 5.163E-06 | 1.549E-05 | 857 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 135.0 | .3 | 8140 | 2.907E-05 | 8.722E-05 | 867 |
| 135.0 | .5 | 1780 | 6.356E-06 | 1.907E-05 | 867 |
| 135.0 | 1.1 | 7632 | 2.726E-05 | 8.177E-05 | 867 |
| 135.0 | 1.5 | 8113 | 2.894E-05 | 8.551E-05 | 867 |
| 135.0 | 2.1 | 4673 | 1.669E-05 | 5.007E-05 | 867 |
| 135.0 | 4.2 | 7835 | 2.798E-05 | 8.395E-05 | 867 |
| 135.0 | 6.3 | 962 | 3.436E-06 | 1.031E-05 | 867 |
| 135.0 | 8.4 | 1343 | 4.796E-06 | 1.439E-05 | 867 |
| 135.0 | 10.5 | 1405 | 5.021E-06 | 1.506E-05 | 867 |
| 135.0 | 12.6 | 1413 | 5.048E-06 | 1.514E-05 | 867 |
| 135.0 | 14.7 | 1580 | 5.646E-06 | 1.694E-05 | 867 |
| M 135.0 | 16.8 | 756 | 2.701E-06 | 8.102E-06 | 867 |
| 135.0 | 21.0 | 1107 | 3.955E-06 | 1.186E-05 | 867 |
| M 135.0 | 25.2 | 712 | 2.544E-06 | 7.631E-06 | 867 |
| M 135.0 | 29.4 | 749 | 2.678E-06 | 8.034E-06 | 867 |
| M 135.0 | 33.6 | 505 | 1.805E-06 | 5.415E-06 | 867 |
| M 135.0 | 37.8 | 526 | 1.882E-06 | 5.645E-06 | 867 |
| 135.0 | 42.0 | 756 | 2.702E-06 | 8.105E-06 | 867 |

TOWER DATA FOLLOW....

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
1600M ARC U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 101.6 | .2 | 0 | 0. | 0. | 1617 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 109.5 | .2 | 0 | 0. | 0. | 1630 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 117.3 | .2 | 0 | 0. | 0. | 1643 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 125.0 | .2 | 76 | 2.791E-07 | 8.374E-07 | 1655 |
| 125.0 | .4 | 200 | 7.166E-07 | 2.151E-06 | 1655 |
| 125.0 | .8 | 197 | 7.039E-07 | 2.112E-06 | 1655 |
| 125.0 | 1.5 | 349 | 1.249E-06 | 3.746E-06 | 1655 |
| 125.0 | 1.6 | 8 | 2.884E-08 | 8.651E-08 | 1655 |
| 125.0 | 3.1 | 11 | 4.037E-08 | 1.211E-07 | 1655 |
| 125.0 | 6.2 | 179 | 6.399E-07 | 1.920E-06 | 1655 |
| S 125.0 | 9.3 | 21 | 7.723E-08 | 2.317E-07 | 1655 |
| 125.0 | 12.4 | 47 | 1.682E-07 | 5.047E-07 | 1655 |
| 125.0 | 15.5 | 27 | 9.979E-08 | 2.979E-07 | 1655 |
| 125.0 | 18.6 | 31 | 1.131E-07 | 3.393E-07 | 1655 |
| 125.0 | 21.7 | 25 | 9.139E-08 | 2.742E-07 | 1655 |
| 125.0 | 24.8 | 26 | 9.412E-08 | 2.824E-07 | 1655 |
| 125.0 | 31.0 | 50 | 1.816E-07 | 5.449E-07 | 1655 |
| M 125.0 | 37.2 | 17 | 6.184E-08 | 1.855E-07 | 1655 |
| 125.0 | 43.4 | 0 | 0. | 0. | 1655 |
| S 125.0 | 49.6 | 4 | 1.513E-08 | 4.540E-08 | 1655 |
| 125.0 | 55.8 | 0 | 2.469E-09 | 7.406E-09 | 1655 |
| 125.0 | 62.0 | 13 | 4.690E-08 | 1.407E-07 | 1655 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/Q SEC/CU.M | EU/Q 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| 132.5 | .2 | 1815 | 6.483E-06 | 1.945E-05 | 1665 |
| 132.5 | .4 | 5740 | 2.050E-05 | 6.151E-05 | 1665 |
| 132.5 | .8 | 8473 | 3.026E-05 | 9.079E-05 | 1665 |
| 132.5 | 1.5 | 723 | 2.584E-06 | 7.751E-06 | 1665 |
| C 132.5 | 1.6 | 310 | 1.107E-06 | 3.322E-06 | 1665 |
| C 132.5 | 3.1 | 68 | 2.441E-07 | 7.353E-07 | 1665 |
| C 132.5 | 6.2 | 217 | 7.776E-07 | 2.333E-06 | 1665 |
| C 132.5 | 9.3 | 147 | 5.268E-07 | 1.580E-06 | 1665 |
| C 132.5 | 12.4 | 221 | 7.916E-07 | 2.375E-06 | 1665 |
| C 132.5 | 15.5 | 250 | 8.936E-07 | 2.681E-06 | 1665 |
| C 132.5 | 18.6 | 152 | 5.434E-07 | 1.630E-06 | 1665 |
| C 132.5 | 21.7 | 243 | 8.704E-07 | 2.613E-06 | 1665 |
| 132.5 | 24.8 | 2107 | 7.527E-06 | 2.258E-05 | 1665 |
| 132.5 | 31.0 | 1621 | 5.791E-06 | 1.737E-05 | 1665 |
| S 132.5 | 37.2 | 833 | 2.976E-06 | 8.928E-06 | 1665 |
| 132.5 | 43.4 | 882 | 3.152E-06 | 9.457E-06 | 1665 |
| 132.5 | 49.6 | 2538 | 9.067E-06 | 2.720E-05 | 1665 |
| M 132.5 | 55.8 | 435 | 1.555E-06 | 4.666E-06 | 1665 |
| M 132.5 | 62.0 | 646 | 2.308E-06 | 6.925E-06 | 1665 |

TOWER DATA FOLLOW....

TEST - V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
32COM ARC U= 3.0 M/SEC AT 26M

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/U SEC/CU.M | EU/U 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 99.8 | .2 | 0 | 0. | 0. | 3215 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/U SEC/CU.M | EU/U 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 107.8 | .2 | 0 | 0. | 0. | 3227 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/U SEC/CU.M | EU/U 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 115.6 | .2 | 0 | 0. | 0. | 3241 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/U SEC/CU.M | EU/U 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| N 123.4 | .2 | 0 | 0. | 0. | 3253 |

| AZIMUTH DEGREES | HEIGHT METERS | EXPOSURE GM-SEC/CU.M X10E+6 | F/U SEC/CU.M | EU/U 1/SQ.M | DISTANCE METERS |
|---|---|---|---|---|---|
| S 131.2 | .2 | 33 | 1.205E-07 | 3.615E-07 | 3264 |
| 131.2 | .4 | 346 | 1.238E-06 | 3.714E-06 | 3264 |
| S 131.2 | .8 | 106 | 3.801E-07 | 1.140E-06 | 3264 |
| E 131.2 | 1.5 | 381 | 1.363E-06 | 4.090E-06 | 3264 |
| 131.2 | 1.6 | 16 | 6.011E-08 | 1.803E-07 | 3264 |
| 131.2 | 3.1 | 230 | 8.234E-07 | 2.471E-06 | 3264 |
| 131.2 | 6.2 | 434 | 1.553E-06 | 4.660E-06 | 3264 |
| S 131.2 | 9.3 | 172 | 6.175E-07 | 1.852E-06 | 3264 |
| Z 131.2 | 12.4 | 92 | 3.320E-07 | 9.959E-07 | 3264 |
| Z 131.2 | 15.5 | 97 | 3.470E-07 | 1.041E-06 | 3264 |
| Z 131.2 | 18.6 | 115 | 4.112E-07 | 1.234E-06 | 3264 |
| L 131.2 | 21.7 | 1 | 5.465E-09 | 1.639E-08 | 3264 |
| M 131.2 | 24.8 | 2 | 8.197E-09 | 2.459E-08 | 3264 |
| L 131.2 | 31.0 | 0 | 0. | 0. | 3264 |
| M 131.2 | 37.2 | 1 | 3.912E-09 | 1.174E-08 | 3264 |
| 131.2 | 43.4 | 121 | 4.342E-07 | 1.303E-06 | 3264 |
| S 131.2 | 49.6 | 40 | 1.434E-07 | 4.303E-07 | 3264 |
| Z 131.2 | 55.8 | 13 | 4.955E-08 | 1.487E-07 | 3264 |
| M 131.2 | 62.0 | 67 | 2.412E-07 | 7.237E-07 | 3264 |

# APPENDIX B

## DIFFUSION SUMMARIES

1202946

1202947

GROUND-LEVEL AND TOWER SAMPLING 200M TO 3200M. INVERSION OF 3F DEG (1M TO 15M) AT 0445; ISOTHERMAL AT 0515.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION--EXCEPT MINOR EXTRAPOLATION AT NORTH END OF 200M ARC.
VERTICAL DISTRIBUTIONS OF TRACER ON ALL 20 TOWERS; PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

TEST D1 JULY 7, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.2M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 99.6 | 12.23 | .154 | 2.894 | 98.0 | 2.77E-04 | 3.33E-04 | 2.43E-02 | 2.91E-02 |
| | | | | | 102.0 | 2.73E-04 | 3.28E-04 | | |
| | | | | | 100.0 | 2.45E-04 | 2.94E-04 | | |
| 800 | 105.8 | 7.57 | 1.244 | 5.923 | 104.0 | 9.46E-05 | 1.13E-04 | 1.68E-02 | 2.01E-02 |
| | | | | | 102.0 | 8.18E-05 | 9.82E-05 | | |
| | | | | | 106.0 | 7.57E-05 | 9.08E-05 | | |
| 1600 | 108.7 | 7.64 | 1.183 | 5.502 | 103.0 | 2.54E-05 | 3.04E-05 | 1.03E-02 | 1.24E-02 |
| | | | | | 102.0 | 2.47E-05 | 2.96E-05 | | |
| | | | | | 106.0 | 2.31E-05 | 2.78E-05 | | |
| 3200 | 108.1 | 8.59 | 1.338 | 5.505 | 101.0 | 6.76E-06 | 8.12E-06 | 4.00E-03 | 4.80E-03 |
| | | | | | 102.0 | 5.85E-06 | 7.03E-06 | | |
| | | | | | 100.0 | 5.20E-06 | 6.23E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST D1 JULY 7, 1967 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.2M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C(E/Q) | C(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 100.1 | 11.97 | .113 | 2.832 | 96.0 | 4.42E-04 | 5.31E-04 | 3.32E-02 | 3.98E-02 |
| | | | | | 96.0 | 3.54E-04 | 4.25E-04 | | |
| | | | | | 102.0 | 3.44E-04 | 4.13E-04 | | |
| 800 | 105.7 | 7.40 | 1.290 | 5.978 | 104.0 | 9.89E-05 | 1.19E-04 | 1.84E-02 | 2.20E-02 |
| | | | | | 106.0 | 9.89E-05 | 1.19E-04 | | |
| | | | | | 102.0 | 9.51E-05 | 1.14E-04 | | |
| 1600 | 107.2 | 8.08 | 1.289 | 5.230 | 100.0 | 5.42E-05 | 6.50E-05 | 1.09E-02 | 1.31E-02 |
| | | | | | 99.0 | 3.46E-05 | 4.16E-05 | | |
| | | | | | 103.0 | 2.20E-05 | 2.65E-05 | | |
| 3200 | 108.1 | 8.24 | 1.250 | 5.451 | 101.0 | 6.12E-06 | 7.34E-06 | 3.83E-03 | 4.60E-03 |
| | | | | | 102.0 | 5.15E-06 | 6.18E-06 | | |
| | | | | | 103.0 | 4.97E-06 | 5.97E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1202049

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS CONTAIN CROSSWIND EXTENT OF TRACER DISTRIBUTIONS.
VERTICAL DISTRIBUTION OF TRACER ON MOST TOWERS. CONCENTRATIONS FALL TO BACKGROUND BELOW TOPS OF MOST TOWERS.
STRONG INVERSION THROUGH THE ENTIRE DEPTH OF THE 122M TOWER. STRONG RESERVATIONS ON "Q" FOR BOTH TRACERS.

TEST D2 JULY 11, 1967 0350 TO 0420 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.9M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 102.2 | 8.63 | -.193 | 1.750 | 108.0 | 3.49E-04? | 6.63E-04? | 2.09E-02? | 3.97E-02? |
| | | | | | 110.0 | 3.20E-04? | 6.08E-04? | | |
| | | | | | 94.0 | 2.46E-04? | 4.66E-04? | | |
| 800 | 101.6 | 8.59 | .192 | 1.750 | 92.0 | 7.56E-05? | 1.44E-04? | 1.79E-02? | 3.41E-02? |
| | | | | | 94.0 | 6.72E-05? | 1.28E-04? | | |
| | | | | | 108.0 | 5.82E-05? | 1.11E-04? | | |
| 1600 | 103.7 | 6.80 | .221 | 1.801 | 97.0 | 2.84E-05? | 5.40E-05? | 1.10E-02? | 2.09E-02? |
| | | | | | 96.0 | 2.81E-05? | 5.34E-05? | | |
| | | | | | 98.0 | 2.48E-05? | 4.72E-05? | | |
| 3200 | 107.7 | 4.74 | .187 | 1.996 | 104.0 | 6.14E-06? | 1.17E-05? | 3.50E-03? | 6.65E-03? |
| | | | | | 103.0 | 5.88E-06? | 1.12E-05? | | |
| | | | | | 105.0 | 4.56E-06? | 8.66E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

DATA FROM THE LABORATORY ASSESSMENT FOR FLUORESCEIN WAS LOST. HOWEVER, RESULTS FROM THAT ASSESMENT HAD BEEN GRAPHED. THE FLUORESCEIN DATA THAT FOLLOW EVOLVE FROM THESE GRAPHS.

TEST D2 JULY 11, 1967 0350 TO 0420 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.9M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 101.9 | 8.37 | -.152 | 1.749 | 108.0 | 4.82E-04? | 9.16E-04? | 2.75E-02? | 5.22E-02? |
| | | | | | 110.0 | 4.16E-04? | 7.91E-04? | | |
| | | | | | 92.0 | 3.94E-04? | 7.48E-04? | | |
| 800 | 101.0 | 8.33 | .295 | 1.886 | 92.0 | 9.91E-05? | 1.88E-04? | 2.21E-02? | 4.21E-02? |
| | | | | | 94.0 | 8.19E-05? | 1.56E-04? | | |
| | | | | | 96.0 | 7.27E-05? | 1.38E-04? | | |
| 1600 | 103.7 | 6.75 | .220 | 1.838 | 97.0 | 3.24E-05? | 6.15E-05? | 1.18E-02? | 2.23E-02? |
| | | | | | 98.0 | 2.77E-05? | 5.27E-05? | | |
| | | | | | 95.0 | 2.58E-05? | 4.89E-05? | | |
| 3200 | 108.1 | 4.67 | .121 | 2.098 | 104.0 | 5.28E-06? | 1.00E-05? | 3.43E-03? | 6.52E-03? |
| | | | | | 110.0 | 4.82E-06? | 9.16E-06? | | |
| | | | | | 109.0 | 4.69E-06? | 8.91E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1202951

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. 200M ARC EXTRAPOLATED AT BOTH EDGES. FLAT OR MULTI-MODE CROSSWIND DISTRIBUTIONS ON ALL ARCS. INVALID SAMPLES ABOVE 4.2M LEVEL ON TOWER AT 122 DEG ON 800M ARC. VERTICAL DISTRIBUTION OF TRACERS ON ALL 20 TOWERS: PEAK VALUES MEASURED, BUT TRUNCATED AT TOP IN ALL CASES.

TEST D3 JULY 13, 1967 0400 TO 0430 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.6M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 106.6? | 32.29? | .657? | 2.014? | 72.0 | 8.29E-05 | 2.15E-04 | 1.22E-02? | 3.16E-02? |
| | | | | | 74.0 | 8.00E-05 | 2.08E-04 | | |
| | | | | | 92.0 | 7.52E-05 | 1.95E-04 | | |
| 800 | 118.7 | 24.17 | -.089 | 1.597 | 86.0 | 1.22E-05 | 3.17E-05 | 5.00E-03 | 1.30E-02 |
| | | | | | 88.0 | 1.02E-05 | 2.66E-05 | | |
| | | | | | 90.0 | 7.74E-06 | 2.01E-05 | | |
| 1600 | 118.3 | 17.53 | .312 | 1.818 | 111.0 | 5.00E-06 | 1.30E-05 | 4.76E-03 | 1.24E-02 |
| | | | | | 108.0 | 4.49E-06 | 1.17E-05 | | |
| | | | | | 112.0 | 4.49E-06 | 1.17E-05 | | |
| 3200 | 117.1 | 15.07 | .079 | 1.831 | 96.0 | 1.89E-06 | 4.91E-06 | 2.67E-03 | 6.94E-03 |
| | | | | | 95.0 | 1.68E-06 | 4.36E-06 | | |
| | | | | | 97.0 | 1.67E-06 | 4.34E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TESJ 03 JULY 13, 1967 0400 TO 0430 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.6M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 102.17 | 28.717 | .8997 | 2.5797 | 78.0 | 1.16E-04 | 3.01E-04 | 1.43E-02? | 3.72E-02? |
| | | | | | 92.0 | 1.09E-04 | 2.84E-04 | | |
| | | | | | 74.0 | 1.05E-04 | 2.73E-04 | | |
| 800 | 118.2 | 23.60 | -.087 | 1.685 | 126.0 | 1.56E-05 | 4.05E-05 | 6.74E-03 | 1.75E-02 |
| | | | | | 86.0 | 1.49E-05 | 3.88E-05 | | |
| | | | | | 68.0 | 1.38E-05 | 3.60E-05 | | |
| 1600 | 117.0 | 17.46 | .413 | 1.904 | 98.0 | 7.42E-06 | 1.93E-05 | 4.95E-03 | 1.29E-02 |
| | | | | | 97.0 | 5.42E-06 | 1.41E-05 | | |
| | | | | | 96.0 | 4.85E-06 | 1.26E-05 | | |
| 3200 | 116.1 | 15.00 | .184 | 1.827 | 95.0 | 1.59E-06 | 4.13E-06 | 2.26E-03 | 5.87E-03 |
| | | | | | 96.0 | 1.55E-06 | 4.02E-06 | | |
| | | | | | 97.0 | 1.35E-06 | 3.52E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202053

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL GROUND LEVEL SAMPLING TRUNCATED SIGNIFICANTLY ON NORTH.
TEST TERMINATED AFTER 16 MINUTES BECAUSE SURFACE WIND SPEED DROPPED TO CALM.
TRACER ON MOST TOWERS, BUT FREQUENTLY LIGHT AND SPOTTY.

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF .2M
SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 85.8X | 5.58X | -1.042X | 4.638X | 88.0 | 3.72E-04 | 5.21E-04 | 1.23E-02X | 1.72E-02X |
| | | | | | 66.0 | 3.04E-04 | 4.26E-04 | | |
| | | | | | 90.0 | 2.73E-04 | 3.83E-04 | | |
| 800 | 77.7X | 6.27X | .893X | 3.770X | 70.0? | 1.23E-05? | 1.73E-05? | 2.24E-03X | 3.13E-03X |
| | | | | | 76.0? | 1.11E-05? | 1.55E-05? | | |
| | | | | | 74.0? | 9.91E-06? | 1.39E-05? | | |
| 1600 | 80.7X | 6.23X | .271X | 2.343X | 85.0? | 8.24E-06? | 1.15E-05? | 2.75E-03X | 3.85E-03X |
| | | | | | 75.0? | 5.84E-06? | 8.17E-06? | | |
| | | | | | 81.0? | 5.83E-06? | 8.16E-06? | | |
| 3200 | 80.4X | 5.85X | .307X | 2.552X | 81.0? | 7.34E-07? | 1.03E-06? | 6.45E-04X | 9.03E-04X |
| | | | | | 84.0? | 6.96E-07? | 9.74E-07? | | |
| | | | | | 75.0? | 6.89E-07? | 9.65E-07? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST D4 AUGUST 8, 1967 0405 TO 0421 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 86.0X | 4.70X | -1.035X | 5.560X | 86.0 | 9.61E-04 | 1.35E-03 | 2.98E-02X | 4.17E-02X |
| | | | | | 88.0 | 6.63E-04 | 1.21E-03 | | |
| | | | | | 84.0 | 6.35E-04 | 8.89E-04 | | |
| 800 | 78.5X | 6.44X | .690X | 3.124X | 78.0? | 1.48E-05? | 2.07E-05? | 2.91E-03X | 3.93E-03X |
| | | | | | 70.0? | 1.32E-05? | 1.84E-05? | | |
| | | | | | 76.0? | 1.22E-05? | 1.70E-05? | | |
| 1600 | 80.6X | 6.28X | .247X | 2.242X | 80.0? | 6.07E-06? | 8.50E-06? | 2.86E-03X | 4.01E-03X |
| | | | | | 75.0? | 5.96E-06? | 8.35E-06? | | |
| | | | | | 81.0? | 5.85E-06? | 8.19E-06? | | |
| 3200 | 80.1X | 6.20X | .574X | 2.963X | 81.0? | 8.61E-07? | 1.21E-06? | 6.55E-04X | 9.17E-04X |
| | | | | | 76.0? | 6.15E-07? | 1.14E-06? | | |
| | | | | | 90.0? | 7.91E-07? | 1.11E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202055

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. AFTER RELATIVELY MINOR EXTRAPOLATION ON NORTH, BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC; 3 OF 4 TOWERS "HIT" EMBRACE THE VERTICAL EXTENT OF TRACER. DIRECTION SHEAR WITH HEIGHT IS OBVIOUS FROM TOWER SAMPLES.

TEST C1 SEPTEMBER 15, 1967 0000 TO 0015 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | C/Q | CU/Q | CROSSWIND INTEGRATED VALUES C1(C/U) | C1(CU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 104.3 | 5.65 | -.191 | 2.323 | 108.0 | 2.11E-03 | 2.96E-03 | 1.05E-01 | 1.47E-01 |
| | | | | | 110.0 | 1.94E-03 | 2.72E-03 | | |
| | | | | | 106.0 | 1.69E-03 | 2.36E-03 | | |
| 800 | 104.6 | 5.18 | -.249 | 2.328 | 108.0 | 1.83E-04 | 2.57E-04 | 3.77E-02 | 5.26E-02 |
| | | | | | 106.0 | 1.83E-04 | 2.56E-04 | | |
| | | | | | 110.0 | 1.78E-04 | 2.50E-04 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



C1 1202956

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. AFTER RATHER BOLD EXTRAPOLATION ON SOUTH END OF 200M ARC. BOTH ARCS EMBRACE CROSSWIND EXTENT OF TRACER. ONLY 3 TOWERS SAMPLING AT EACH ARC, AND ONLY 3 OF THESE INTERCEPT TRACER. NONE OF THE TOWERS EMBRACE THE VERTICAL EXTENT OF THE PLUME DURING THIS UNSTABLE RELEASE.

TEST C2 OCTOBER 17, 1967 0802 TO 0817 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
SAMPLER HT 1.5M U= 4.1M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 125.6? | 5.20? | -.032? | 2.415? | 128.0 | 2.22E-04 | 9.11E-04 | 1.05E-02? | 4.35E-02? |
| | | | | | 130.0 | 2.02E-04 | 8.27E-04 | | |
| | | | | | 126.0 | 1.87E-04 | 7.69E-04 | | |
| 800 | 126.5 | 2.59 | -.078 | 2.553 | 126.0 | 1.83E-05 | 7.43E-05 | 1.86E-03 | 7.62E-03 |
| | | | | | 128.0 | 1.75E-05 | 7.20E-05 | | |
| | | | | | 124.0 | 1.12E-05 | 4.58E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

< INDICATES INVALID OR INCOMPLETE DATA.



1202957

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. BOTH ARCS SEVERELY TRUNCATED AT SOUTH END. ONLY 3 TOWERS SAMPLING AT EACH ARC; 5 OFTHE 6 TOWERS INTERCEPT TRACER. NO TOWER COMPLETELY EMBRACES THE VERTICAL EXTENT OF TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C3 OCTOBER 23, 1967 1102 TO 1116 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
SAMPLER HT 1.5M U= 9.2M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 119.9X | 8.31X | -.502X | 2.260X | 122.0? | 8.09E-05? | 6.63E-04? | 5.99E-03X | 4.91E-02X |
| | | | | | 132.0? | 7.55E-05? | 5.20E-04? | | |
| | | | | | 124.0? | 7.54E-05? | 6.18E-04? | | |
| 800 | 121.9X | 8.69X | -.712X | 2.221X | 132.0? | 5.25E-06? | 4.31E-05? | 1.03E-03X | 8.47E-03X |
| | | | | | 126.0? | 4.20E-06? | 3.45E-05? | | |
| | | | | | 123.0? | 4.15E-06? | 3.41E-05? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



C3 1202958

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. BOTH ARCS TRUNCATED AT SOUTH EDGE. ON 800M-ARC, SUSPECT FURTHER SAMPLING IN SOUTH WOULD HAVE REVEALED A BIMODAL DISTRIBUTION. ONLY 3 TOWERS SAMPLING AT EACH ARC. FOUR TOWERS INTERCEPTED TRACER DURING THIS RELEASE INTO AN UNSTABLE ATMOSPHERE.

TEST C4 OCTOBER 24, 1967 1104 TO 1114 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
SAMPLER HT 1.5M U= 4.1M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 121.6X | 6.00X | -.112X | 2.205X | 122.0 | 1.04E-04 | 4.27E-04 | 6.05E-03X | 2.48E-02X |
| | | | | | 120.0 | 9.80E-05 | 4.02E-04 | | |
| | | | | | 124.0 | 9.79E-05 | 4.01E-04 | | |
| 800 | 120.4X | 4.03X | .749X | 3.048X | 118.0 | 6.30E-06 | 2.58E-05 | 7.01E-04X | 2.87E-03X |
| | | | | | 120.0? | 4.53E-05? | 1.90E-05? | | |
| | | | | | 116.0? | 4.02E-06? | 1.65E-05? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202959

GROUND LEVEL AND TOWER SAMPLING AT 200M AND 800M ONLY. KRYPTON RELEASED ABOUT 2M TO RIGHT (FACING DOWNWIND) AND 1M BELOW ZNS RELEASE POINT. BOTH ARCS EMBRACE THE CROSSWIND DISTRIBUTION OF TRACER. BOTH TRACER DISTRIBUTIONS EXTENDED ABOVE TOWER TOPS, BUT MAXIMUM CONCENTRATIONS WERE GENERALLY BELOW TOWER TOPS.

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.8M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION | | | | THREE MAXIMUM EXPOSURES | | | CROSSWIND INTEGRATED VALUES | |
|---|---|---|---|---|---|---|---|---|---|
| | MEAN | STAND DEV | COEFFICIENT SKEW | KURT | AZIMUTH | E/Q | EU/Q | CI(E/Q) | CI(EU/Q) |
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 111.5 | 7.03 | .104 | 2.210 | 114.0 | 3.05E-04 | 8.54E-04 | 2.16E-02 | 6.04E-02 |
| | | | | | 106.0 | 2.95E-04 | 8.25E-04 | | |
| | | | | | 104.0 | 2.82E-04 | 7.90E-04 | | |
| 800 | 109.7 | 5.45 | -.231 | 1.942 | 114.0 | 2.22E-05 | 6.21E-05 | 3.40E-03 | 9.53E-03 |
| | | | | | 116.0 | 1.47E-05 | 4.11E-05 | | |
| | | | | | 108.0 | 1.46E-05 | 4.08E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST C5 NOVEMBER 8, 1967 0512 TO 0532 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 1M
SAMPLER HT 1.5M U= 2.8M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 111.5 | 6.74 | .067 | 2.117 | 114.0 | 2.32E-04 | 6.50E-04 | 1.54E-02 | 4.32E-02 |
| | | | | | 104.0 | 2.29E-04 | 6.41E-04 | | |
| | | | | | 116.0 | 2.19E-04 | 6.14E-04 | | |
| 800 | 113.2 | 5.74 | -.769 | 2.699 | 118.0 | 3.20E-05 | 8.96E-05 | 4.53E-03 | 1.27E-02 |
| | | | | | 116.0 | 2.70E-05 | 7.57E-05 | | |
| | | | | | 114.0 | 1.98E-05 | 5.54E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202961

SAMPLING 200M TO 3200M: NO TOWER SAMPLING. CROSSWIND DISTRIBUTIONS RATHER BOLDLY EXTRAPOLATED ON NORTH FOR ALL ARCS BEYOND 400M. RELATIVELY FLAT OR MULTIMODAL CROSSWIND DISTRIBUTIONS. ZINC SULFIDE DISPERSAL INTERRUPTED FOR ABOUT 2 MIN STARTING AT 0502; FLUORESCEIN ALSO INTERRUPTED FOR ABOUT 45 SEC.

TEST U56 JULY 18, 1967 0445 TO 0515 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.8M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 55.97 | 16.267 | -.4647 | 2.4907 | 46.07 | 6.09E-057 | 1.10E-047 | 8.18E-037 | 1.47E-027 |
| | | | | | 70.07 | 5.87E-057 | 1.06E-047 | | |
| | | | | | 74.07 | 5.83E-057 | 1.05E-047 | | |
| 300 | 52.5 | 17.10 | -.239 | 2.302 | 48.0 | 5.02E-05 | 9.03E-05 | 8.51E-03 | 1.53E-02 |
| | | | | | 44.0 | 4.59E-05 | 8.26E-05 | | |
| | | | | | 64.0 | 3.62E-05 | 6.52E-05 | | |
| 400 | 52.4 | 16.46 | -.247 | 2.312 | 46.0 | 4.70E-05 | 8.46E-05 | 8.37E-03 | 1.51E-02 |
| | | | | | 50.0 | 3.09E-05 | 5.57E-05 | | |
| | | | | | 54.0 | 2.93E-05 | 5.27E-05 | | |
| 500 | 53.77 | 15.077 | -.3727 | 2.5297 | 44.0 | 3.93E-05 | 7.07E-05 | 1.03E-027 | 1.86E-027 |
| | | | | | 56.0 | 3.54E-05 | 6.37E-05 | | |
| | | | | | 52.0 | 3.44E-05 | 6.20E-05 | | |
| 600 | 51.97 | 13.397 | -.3917 | 2.7807 | 46.0 | 3.74E-05 | 6.74E-05 | 9.93E-037 | 1.79E-027 |
| | | | | | 50.0 | 3.24E-05 | 5.83E-05 | | |
| | | | | | 54.0 | 2.87E-05 | 5.17E-05 | | |
| 700 | 51.97 | 14.297 | -.1857 | 2.4597 | 52.0 | 2.37E-05 | 4.27E-05 | 9.72E-037 | 1.75E-027 |
| | | | | | 44.0 | 2.32E-05 | 4.18E-05 | | |
| | | | | | 48.0 | 2.26E-05 | 4.07E-05 | | |
| 800 | 51.37 | 13.837 | -.1847 | 2.5377 | 49.0 | 2.64E-05 | 4.76E-05 | 9.18E-037 | 1.65E-027 |
| | | | | | 46.0 | 2.53E-05 | 4.55E-05 | | |
| | | | | | 52.0 | 2.11E-05 | 3.79E-05 | | |
| 1200 | 49.77 | 13.027 | -.0317 | 2.7737 | 48.0 | 1.74E-05 | 3.14E-05 | 4.96E-037 | 8.93E-037 |
| | | | | | 50.0 | 1.64E-05 | 2.96E-05 | | |
| | | | | | 52.0 | 8.19E-06 | 1.47E-05 | | |
| 1600 | 49.47 | 13.087 | -.0877 | 2.4297 | 48.0 | 7.98E-06 | 1.44E-05 | 4.30E-037 | 7.73E-037 |
| | | | | | 50.0 | 6.40E-06 | 1.15E-05 | | |
| | | | | | 46.0 | 4.67E-06 | 8.40E-06 | | |
| 3200 | 49.27 | 10.167 | -.1977 | 2.5087 | 50.07 | 1.45E-067 | 2.61E-067 | 1.87E-037 | 3.37E-037 |
| | | | | | 52.07 | 1.45E-067 | 2.61E-067 | | |
| | | | | | 48.07 | 1.34E-067 | 2.41E-067 | | |

TEST 056 JULY 18, 1980 0445 TO 0515 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 20M
SAMPLER HT 1.5M U= 4.3M/SEC AT 20M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | I/SQ.M | SEC/SQ.M | I/M |
| 200 | 45.9? | 23.90? | .089? | 1.580? | 18.0? | 6.39E-07? | 2.96E-06? | 3.80E-05? | 1.67E-04? |
| | | | | | 22.0? | 3.79E-07? | 1.63E-06? | | |
| | | | | | 62.0? | 2.13E-07? | 9.16E-07? | | |
| 300 | 54.8 | 22.47 | -.386 | 1.737 | 76.0 | 6.18E-07 | 3.52E-06 | 1.30E-04 | 5.59E-04 |
| | | | | | 24.0 | 6.67E-07 | 2.87E-06 | | |
| | | | | | 60.0 | 5.80E-07 | 2.50E-06 | | |
| 400 | 55.5 | 16.96 | -.761 | 3.194 | 54.0 | 1.27E-06 | 5.47E-06 | 1.71E-04 | 7.35E-04 |
| | | | | | 54.0 | 7.32E-07 | 3.15E-06 | | |
| | | | | | 62.0 | 7.10E-07 | 3.05E-06 | | |
| 500 | 60.4X | 9.89X | .049X | 2.792X | 56.0 | 3.54E-06 | 1.52E-05 | 5.76E-04X | 2.48E-03X |
| | | | | | 52.0 | 3.08E-06 | 1.33E-05 | | |
| | | | | | 60.0 | 2.58E-06 | 1.11E-05 | | |
| 600 | 59.9X | 8.77X | -.178X | 2.232X | 62.0 | 4.22E-06 | 1.81E-05 | 6.62E-04X | 2.84E-03X |
| | | | | | 54.0 | 3.17E-06 | 1.36E-05 | | |
| | | | | | 66.0 | 2.36E-06 | 1.01E-05 | | |
| 700 | 61.3X | 8.68X | .305X | 2.720X | 60.0 | 5.03E-06 | 2.16E-05 | 1.08E-03X | 4.66E-03X |
| | | | | | 64.0 | 3.67E-06 | 1.58E-05 | | |
| | | | | | 56.0 | 3.54E-06 | 1.52E-05 | | |
| 800 | 59.4X | 9.91X | .400X | 2.390X | 58.0 | 6.12E-06 | 2.63E-05 | 1.05E-03X | 4.51E-03X |
| | | | | | 55.0 | 4.22E-06 | 1.81E-05 | | |
| | | | | | 67.0 | 2.31E-06 | 9.94E-06 | | |
| 1200 | 61.0X | 8.23X | .403X | 3.072X | 54.0 | 7.91E-06 | 3.40E-05 | 2.68E-03X | 1.15E-02X |
| | | | | | 56.0 | 7.59E-06 | 3.27E-05 | | |
| | | | | | 60.0 | 7.13E-06 | 3.09E-05 | | |
| 1600 | 57.9X | 5.49X | .996X | 8.997X | 66.0 | 8.86E-06 | 3.81E-05 | 2.39E-03X | 1.03E-02X |
| | | | | | 58.0 | 8.16E-06 | 3.48E-05 | | |
| | | | | | 62.0 | 8.10E-06 | 3.48E-05 | | |
| 3200 | 65.3X | 4.52X | .730X | 2.984X | 60.0? | 2.21E-06? | 9.49E-06? | 1.26E-03X | 5.40E-03X |
| | | | | | 62.0? | 1.97E-06? | 8.48E-06? | | |
| | | | | | 64.0? | 1.97E-06? | 8.48E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202063

SAMPLING 400M TO 3200M; NO TOWER SAMPLING.
TRACER DISTRIBUTION EXTENDS BEYOND SAMPLERS AT 3200M, AND TO LESSER EXTENT AT 1600M. ZNS EXTRAPOLATED AT 3200M. STRONG LOW-LEVEL TEMPERATURE INVERSION.

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.5M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 102.4 | 6.01 | -.714 | 3.137 | 106.0 | 3.13E-04 | 4.69E-04 | 2.55E-02 | 3.83E-02 |
| | | | | | 102.0 | 2.10E-04 | 3.16E-04 | | |
| | | | | | 94.0 | 1.34E-04 | 2.01E-04 | | |
| 600 | 103.0 | 5.13 | -.001 | 4.413 | 106.0 | 3.14E-04 | 4.71E-04 | 3.67E-02 | 5.50E-02 |
| | | | | | 102.0 | 1.96E-04 | 2.94E-04 | | |
| | | | | | 98.0 | 1.60E-04 | 2.39E-04 | | |
| 700 | 105.0 | 3.65 | -1.062 | 5.514 | 108.0 | 3.57E-04 | 5.35E-04 | 4.23E-02 | 6.35E-02 |
| | | | | | 104.0 | 2.81E-04 | 4.21E-04 | | |
| | | | | | 100.0 | 1.45E-04 | 2.18E-04 | | |
| 800 | 104.2 | 5.25 | -.566 | 3.827 | 106.0 | 1.53E-04 | 2.29E-04 | 1.99E-02 | 2.99E-02 |
| | | | | | 100.0 | 8.30E-05 | 1.25E-04 | | |
| | | | | | 109.0 | 7.56E-05 | 1.14E-04 | | |
| 1200 | 106.3 | 4.15 | -1.508 | 12.276 | 108.0 | 9.76E-05 | 1.46E-04 | 1.65E-02 | 2.48E-02 |
| | | | | | 110.0 | 7.11E-05 | 1.07E-04 | | |
| | | | | | 106.0 | 5.75E-05 | 8.63E-05 | | |
| 1600 | 106.1 | 4.88 | -2.497 | 14.753 | 104.0 | 3.46E-05 | 5.20E-05 | 8.75E-03 | 1.31E-02 |
| | | | | | 110.0 | 3.45E-05 | 5.17E-05 | | |
| | | | | | 108.0 | 2.97E-05 | 4.45E-05 | | |
| 3200 | 104.07 | 10.117 | -.1227 | 1.6267 | 114.0 | 2.46E-06 | 3.69E-06 | 2.11E-037 | 3.16E-037 |
| | | | | | 116.07 | 2.00E-067 | 2.99E-067 | | |
| | | | | | 90.0 | 1.82E-06 | 2.73E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U57 AUGUST 1, 1967 0450 TO 0520 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 3.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C(E/Q) | C(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 107.3? | 11.17? | -.802? | 2.926? | 118.0? | 1.55E-07? | 5.29E-07? | 1.77E-05? | 6.02E-05? |
| | | | | | 106.0? | 1.36E-07? | 4.61E-07? | | |
| | | | | | 114.0? | 6.17E-08? | 2.10E-07? | | |
| 600 | 103.5? | 5.48? | .342? | 4.125? | 106.0? | 6.79E-08? | 2.31E-07? | 8.09E-06? | 2.75E-05? |
| | | | | | 102.0? | 4.66E-08? | 1.58E-07? | | |
| | | | | | 98.0? | 2.62E-08? | 8.89E-08? | | |
| 700 | 95.0 | 16.09 | -.812 | 2.363 | 108.0 | 1.36E-07 | 4.61E-07 | 2.30E-05 | 7.83E-05 |
| | | | | | 76.0 | 8.80E-08 | 2.99E-07 | | |
| | | | | | 104.0 | 6.33E-08 | 2.15E-07 | | |
| 800 | 104.9 | 9.90 | -1.581 | 7.746 | 106.0 | 6.00E-08 | 2.04E-07 | 1.09E-05 | 3.70E-05 |
| | | | | | 100.0 | 5.18E-08 | 1.76E-07 | | |
| | | | | | 109.0 | 3.54E-08 | 1.20E-07 | | |
| 1200 | 108.6 | 7.49 | -1.786 | 8.643 | 110.0 | 5.01E-07 | 1.70E-06 | 1.02E-04 | 3.46E-04 |
| | | | | | 112.0 | 3.54E-07 | 1.20E-06 | | |
| | | | | | 108.0 | 2.90E-07 | 9.84E-07 | | |
| 1600 | 111.1? | 5.79? | -2.942? | 19.679? | 110.0 | 1.36E-06 | 4.64E-06 | 3.11E-04? | 1.06E-03? |
| | | | | | 112.0 | 1.27E-06 | 4.31E-06 | | |
| | | | | | 114.0 | 6.93E-07 | 2.36E-06 | | |
| 3200 | 108.7X | 8.28X | -1.558X | 4.197X | 114.0? | 6.50E-06? | 2.21E-05? | 1.34E-03X | 4.55E-03X |
| | | | | | 112.0? | 1.32E-06? | 4.48E-06? | | |
| | | | | | 110.0? | 6.38E-07? | 2.17E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202065

U5

SAMPLING 400M TO 3200M: NO TOWER SAMPLING.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS.
UNUSUAL APPEARANCE OF ZNS REMAINING IN DISPERSAL APPARATUS FOLLOWING TRACER RELEASE LEAVES SOME DOUBT ON "Q".

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 3.2M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 92.7 | 5.71 | -.312 | 2.853 | 90.0 | 2.09E-05 | 6.66E-05 | 2.22E-03 | 7.10E-03 |
| | | | | | 94.0 | 2.02E-05 | 6.46E-05 | | |
| | | | | | 98.0 | 1.64E-05 | 5.25E-05 | | |
| 600 | 95.6 | 3.76 | -.317 | 6.361 | 94.0 | 1.27E-05 | 4.06E-05 | 9.00E-04 | 2.88E-03 |
| | | | | | 98.0 | 4.05E-06 | 1.29E-05 | | |
| | | | | | 102.0 | 3.35E-06 | 1.07E-05 | | |
| 700 | 92.6 | 6.05 | -.206 | 2.495 | 96.0 | 7.32E-06 | 2.34E-05 | 1.41E-03 | 4.51E-03 |
| | | | | | 92.0 | 7.15E-06 | 2.29E-05 | | |
| | | | | | 100.0 | 4.46E-06 | 1.43E-05 | | |
| 800 | 93.2 | 5.80 | -.198 | 2.391 | 91.0 | 8.02E-06 | 2.57E-05 | 1.66E-03 | 5.32E-03 |
| | | | | | 94.0 | 7.29E-06 | 2.33E-05 | | |
| | | | | | 100.0 | 6.81E-06 | 2.18E-05 | | |
| 1200 | 93.1 | 5.79 | .062 | 2.235 | 90.0 | 2.80E-06 | 8.97E-06 | 6.59E-04 | 2.11E-03 |
| | | | | | 92.0 | 2.28E-06 | 7.28E-06 | | |
| | | | | | 100.0 | 2.19E-06 | 7.00E-06 | | |
| 1600 | 94.7 | 5.19 | -.143 | 2.466 | 90.0 | 1.38E-06 | 4.42E-06 | 5.41E-04 | 1.73E-03 |
| | | | | | 92.0 | 1.34E-06 | 4.30E-06 | | |
| | | | | | 98.0 | 1.27E-06 | 4.05E-06 | | |
| 3200 | 95.4 | 4.53 | .164 | 2.163 | 92.0 | 4.78E-07 | 1.53E-06 | 2.66E-04 | 8.51E-04 |
| | | | | | 98.0 | 3.28E-07 | 1.05E-06 | | |
| | | | | | 94.0 | 3.10E-07 | 9.92E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U58 AUGUST 24, 1967 0415 TO 0445 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.6M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 94.4 | 5.75 | -.059 | 2.598 | 94.0 | 8.05E-06 | 4.51E-05 | 8.78E-04 | 4.91E-03 |
| | | | | | 90.0 | 7.70E-06 | 4.31E-05 | | |
| | | | | | 98.0 | 5.95E-06 | 3.33E-05 | | |
| 600 | 95.0 | 4.67 | .200 | 2.266 | 94.0 | 1.10E-05 | 6.17E-05 | 1.35E-03 | 7.54E-03 |
| | | | | | 90.0 | 7.75E-06 | 4.31E-05 | | |
| | | | | | 102.0 | 5.95E-06 | 3.33E-05 | | |
| 700 | 94.8 | 4.81 | .205 | 2.606 | 92.0 | 1.26E-05 | 7.06E-05 | 1.86E-03 | 1.04E-02 |
| | | | | | 96.0 | 9.97E-06 | 5.59E-05 | | |
| | | | | | 100.0 | 6.65E-06 | 3.72E-05 | | |
| 800 | 94.9 | 5.54 | -.322 | 2.580 | 94.0 | 9.62E-06 | 5.39E-05 | 2.07E-03 | 1.16E-02 |
| | | | | | 91.0 | 9.27E-06 | 5.19E-05 | | |
| | | | | | 100.0 | 9.27E-06 | 5.19E-05 | | |
| 1200 | 94.9 | 5.03 | -.173 | 2.606 | 92.0 | 7.03E-06 | 3.94E-05 | 1.65E-03 | 9.27E-03 |
| | | | | | 90.0 | 5.95E-06 | 3.33E-05 | | |
| | | | | | 94.0 | 5.56E-06 | 3.12E-05 | | |
| 1600 | 95.0 | 4.56 | -.027 | 2.464 | 92.0 | 5.76E-06 | 3.22E-05 | 1.84E-03 | 1.03E-02 |
| | | | | | 94.0 | 5.56E-06 | 3.12E-05 | | |
| | | | | | 96.0 | 4.88E-06 | 2.73E-05 | | |
| 3200 | 96.7 | 4.42 | -.056 | 2.173 | 94.0 | 1.93E-06 | 1.08E-05 | 1.13E-03 | 6.32E-03 |
| | | | | | 96.0 | 1.57E-06 | 8.80E-06 | | |
| | | | | | 102.0 | 1.47E-06 | 8.23E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202967

SAMPLING 500M TO 12800M, NO TOWER SAMPLING.
EQUIPMENT DIFFICULTIES DURING ASSAY OF FLUORESCEIN FILTERS FOR 800M, 1200M, AND 2200M ARCS.
5000M ARC TRUNCATED ON NORTH. 7000M AND 12800M ARC DATA EXTRAPOLATED SLIGHTLY TO NORTH.

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 3.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | CUBEEICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EQ/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EQ/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 800 | 76.1 | 8.52 | .279 | 2.524 | 76.0 | 1.39E-05 | 4.73E-05 | 4.50E-03 | 1.53E-02 |
| | | | | | 70.0 | 1.33E-05 | 4.51E-05 | | |
| | | | | | 79.0 | 1.23E-05 | 4.18E-05 | | |
| 1200 | 77.3 | 8.19 | .253 | 2.518 | 72.0 | 8.34E-06 | 2.84E-05 | 3.71E-03 | 1.26E-02 |
| | | | | | 70.0 | 7.77E-06 | 2.64E-05 | | |
| | | | | | 74.0 | 7.58E-06 | 2.58E-05 | | |
| 1600 | 79.1 | 8.66 | .473 | 2.643 | 74.0 | 6.94E-06 | 2.36E-05 | 3.78E-03 | 1.28E-02 |
| | | | | | 72.0 | 6.41E-06 | 2.18E-05 | | |
| | | | | | 76.0 | 6.38E-06 | 2.17E-05 | | |
| 2200 | 79.7 | 8.30 | .656 | 2.888 | 73.0 | 4.39E-06 | 1.49E-05 | 2.59E-03 | 8.82E-03 |
| | | | | | 74.0 | 4.06E-06 | 1.38E-05 | | |
| | | | | | 72.0 | 3.52E-06 | 1.20E-05 | | |
| 3200 | 84.3 | 7.64 | .643 | 3.119 | 83.8 | 2.10E-06 | 7.13E-06 | 1.58E-03 | 5.37E-03 |
| | | | | | 75.7 | 1.63E-06 | 5.55E-06 | | |
| | | | | | 84.8 | 1.58E-06 | 5.36E-06 | | |
| 5000 | 94.0X | 7.52X | .199X | 1.914X | 90.0 | 1.00E-06 | 3.41E-06 | 7.17E-04X | 2.44E-03X |
| | | | | | 100.0 | 6.34E-07 | 2.15E-06 | | |
| | | | | | 84.0 | 4.10E-07 | 1.39E-06 | | |
| 7000 | 90.6 | 7.71 | .410 | 2.961 | 92.0 | 4.82E-07 | 1.64E-06 | 3.96E-04 | 1.35E-03 |
| | | | | | 84.0 | 2.59E-07 | 8.81E-07 | | |
| | | | | | 86.0 | 1.58E-07 | 5.37E-07 | | |
| 12800 | 99.1 | 4.32 | .071 | 2.577 | 100.0 | 6.27E-08 | 2.13E-07 | 1.03E-04 | 3.49E-04 |
| | | | | | 101.0 | 4.68E-08 | 1.59E-07 | | |
| | | | | | 98.0 | 4.53E-08 | 0.54E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U59 JUNE 3, 1968 0212 TO 0232 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.9M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 800 | 67.7? | 8.40? | .619? | 2.797? | 64.0 | 2.77E-05? | 5.26E-05? | 6.52E-03? | 1.24E-02? |
| | | | | | 61.0 | 2.61E-05? | 4.95E-05? | | |
| | | | | | 70.0 | 1.69E-05? | 3.20E-05? | | |
| 1200 | 71.0? | 8.03? | .338? | 2.503? | 72.0 | 9.57E-06? | 1.82E-05? | 3.54E-03? | 6.73E-03? |
| | | | | | 68.0 | 9.11E-06? | 1.73E-05? | | |
| | | | | | 62.0 | 7.97E-06? | 1.51E-05? | | |
| 1600 | 72.1 | 7.23 | .720 | 3.133 | 72.0 | 9.80E-06 | 1.86E-05 | 3.36E-03 | 6.38E-03 |
| | | | | | 70.0 | 7.74E-06 | 1.47E-05 | | |
| | | | | | 68.0 | 7.29E-06 | 1.38E-05 | | |
| 2200 | 74.7? | 7.00? | .476? | 3.023? | 76.0 | 4.86E-06? | 9.23E-06? | 2.96E-03? | 5.63E-03? |
| | | | | | 72.0 | 4.74E-06? | 9.01E-06? | | |
| | | | | | 78.0 | 3.91E-06? | 7.43E-06? | | |
| 3200 | 80.6 | 6.41 | .674 | 3.077 | 75.7 | 1.99E-06 | 3.78E-06 | 1.57E-03 | 2.99E-03 |
| | | | | | 77.8 | 1.76E-06 | 3.35E-06 | | |
| | | | | | 74.7 | 1.74E-06 | 3.30E-06 | | |
| 5000 | 89.2X | 5.84X | .992X | 3.547X | 90.0 | 6.90E-07 | 1.31E-06 | 5.83E-04X | 1.11E-03X |
| | | | | | 84.0 | 5.76E-07 | 1.09E-06 | | |
| | | | | | 88.0 | 4.56E-07 | 8.70E-07 | | |
| 7000 | 87.7 | 7.29 | .242 | 3.246 | 92.0 | 3.84E-07 | 7.30E-07 | 5.71E-04 | 1.09E-03 |
| | | | | | 84.0 | 3.77E-07 | 7.16E-07 | | |
| | | | | | 82.0 | 2.88E-07 | 5.47E-07 | | |
| 12800 | 98.6 | 3.77 | -.157 | 3.199 | 98.0 | 1.47E-07 | 2.79E-07 | 2.46E-04 | 4.67E-04 |
| | | | | | 100.0 | 1.32E-07 | 2.51E-07 | | |
| | | | | | 96.0 | 1.03E-07 | 1.97E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202969

SAMPLING 400M TO 12800M, NO TOWER SAMPLING. MUCH DUST ON FILTERS. MANY FIELD PROBLEMS, MINIMAL EFFORT MADE TO "CORRECT" DATA DUE TO THE LARGE NUMBER OF UNCERTAINTIES. VERY SKEWED DISTRIBUTION. MOST ARCS ARE TRUNCATED ON NORTH END.

TEST U60 JUNE 4, 1968 0216 TO 0246 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.0M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 800 | 128.7X | 17.57X | -2.382X | 9.243X | 129.5? | 7.43E-06? | 2.97E-05? | 1.85E-03X | 7.42E-03X |
| | | | | | 142.4? | 6.85E-06? | 2.74E-05? | | |
| | | | | | 131.4? | 6.44E-06? | 2.58E-05? | | |
| 1200 | 125.8X | 13.01X | -2.557X | 11.700X | 130.0? | 7.39E-06? | 2.96E-05? | 2.24E-03X | 8.98E-03X |
| | | | | | 128.0? | 6.69E-06? | 2.63E-05? | | |
| | | | | | 132.0? | 5.74E-06? | 2.29E-05? | | |
| 1600 | 129.2X | 7.38X | -2.974X | 21.066X | 130.6? | 2.09E-05? | 8.35E-05? | 5.38E-03X | 2.15E-02X |
| | | | | | 128.8? | 2.07E-05? | 8.29E-05? | | |
| | | | | | 129.7? | 2.06E-05? | 8.25E-05? | | |
| 2200 | 129.6? | 7.52? | -3.131 | 20.805? | 132.0? | 1.05E-05? | 4.19E-05? | 1.86E-03X | 7.45E-03X |
| | | | | | 126.0? | 3.76E-06? | 1.51E-05? | | |
| | | | | | 128.0? | 3.57E-06? | 1.43E-05? | | |
| 3200 | 127.7 | 8.21 | -2.182 | 9.273 | 132.2 | 6.63E-06 | 2.65E-05 | 2.61E-03 | 1.04E-02 |
| | | | | | 133.2 | 6.22E-06 | 2.49E-05 | | |
| | | | | | 131.2 | 5.37E-06 | 2.15E-05 | | |
| 5000 | 113.8X | 12.31X | -.438X | 2.606X | 106.0? | 4.55E-07? | 1.82E-06? | 5.07E-04X | 2.03E-03X |
| | | | | | 128.0? | 3.44E-07? | 1.38E-06? | | |
| | | | | | 118.0? | 3.13E-07? | 1.25E-06? | | |
| 7000 | 108.2X | 13.45X | -.697X | 2.552X | 114.0? | 7.82E-07? | 3.13E-06? | 1.76E-03X | 7.04E-03X |
| | | | | | 116.0? | 6.10E-07? | 2.44E-06? | | |
| | | | | | 122.0? | 5.36E-07? | 2.14E-06? | | |
| 12800 | 132.0? | 5.28? | -.072? | 2.235? | 132.0? | 8.22E-09? | 3.29E-08? | 1.43E-05? | 5.72E-05? |
| | | | | | 135.0? | 6.91E-09? | 2.76E-08? | | |
| | | | | | 137.0? | 5.36E-09? | 2.14E-08? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



0162970

TEST 060 JUNE 4, 1968 0216 TO 0246 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.2M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 800 | 110.8X | 17.53X | -1.275X | 6.032X | 116.4? | 6.91E-05? | 8.29E-05? | 9.58E-03X | 1.15E-02X |
| | | | | | 114.5? | 3.33E-05? | 4.00E-05? | | |
| | | | | | 112.6? | 3.08E-05? | 3.70E-05? | | |
| 1200 | 117.2X | 15.38X | -2.292X | 8.399X | 124.0? | 5.61E-05? | 7.93E-05? | 2.40E-02X | 2.88E-02X |
| | | | | | 126.0? | 6.61E-05? | 7.93E-05? | | |
| | | | | | 122.0? | 6.44E-05? | 7.73E-05? | | |
| 1600 | 120.9X | 14.01X | -2.497X | 10.084X | 127.8? | 2.93E-05? | 3.51E-05? | 1.07E-02X | 1.29E-02X |
| | | | | | 124.1? | 2.77E-05? | 3.32E-05? | | |
| | | | | | 125.9? | 2.77E-05? | 3.32E-05? | | |
| 2200 | 117.5X | 17.37X | -2.026X | 6.736X | 126.0? | 8.56E-06? | 1.03E-05? | 2.93E-03X | 3.51E-03X |
| | | | | | 128.0? | 7.12E-06? | 8.54E-06? | | |
| | | | | | 122.0? | 3.93E-06? | 4.71E-06? | | |
| 3200 | 116.9X | 14.99X | -1.390X | 5.097X | 131.2 | 4.74E-06 | 5.69E-06 | 2.92E-03? | 3.50E-03? |
| | | | | | 130.3 | 4.19E-06 | 5.03E-06 | | |
| | | | | | 129.3 | 2.65E-06 | 3.17E-06 | | |
| 5000 | 104.6X | 12.48X | -.005X | 2.362X | 100.0 | 4.95E-07 | 5.94E-07 | 1.17E-03X | 1.40E-03X |
| | | | | | 106.0 | 4.82E-07 | 5.79E-07 | | |
| | | | | | 102.0 | 4.74E-07 | 5.69E-07 | | |
| 7000 | 95.0X | 12.40X | .407X | 2.359X | 94.0? | 3.97E-07? | 4.76E-07? | 1.40E-03X | 1.68E-03X |
| | | | | | 90.0? | 3.86E-07? | 4.63E-07? | | |
| | | | | | 92.0? | 3.85E-07? | 4.63E-07? | | |
| 12800 | 127.3? | 2.48? | .625? | 2.442? | 126.0? | 1.27E-08? | 1.52E-08? | 1.14E-05? | 1.37E-05? |
| | | | | | 125.0? | 7.26E-09? | 8.71E-09? | | |
| | | | | | 129.0? | 6.94E-09? | 8.33E-09? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202911

SAMPLING BOOM TO 12800M, NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.
NOT ENOUGH TRACER SAMPLED ON 5000M ARC TO CONFIDENTLY INTERPOLATE QUESTIONABLE DATA POINTS.
THIRTY MIN OF ZINC SULFIDE DISPERSAL, 15 MIN OF FLOURESCEIN DISPERSAL.

TEST U61 JUNE 6, 1966 0106 TO 0136 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 8.5M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 112.7? | 2.74? | -.186? | 3.140? | 112.6 | 1.25E-05 | 1.07E-04 | 1.39E-03? | 1.18E-02? |
| | | | | | 114.5? | 1.25E-05? | 1.06E-04? | | |
| | | | | | 110.7 | 1.04E-05 | 8.36E-05 | | |
| 1200 | 112.3 | 2.79 | -.029 | 2.863 | 112.0 | 6.14E-06 | 5.22E-05 | 9.33E-04 | 7.93E-03 |
| | | | | | 114.0 | 5.53E-06 | 4.70E-05 | | |
| | | | | | 110.0 | 4.30E-06 | 3.66E-05 | | |
| 1600 | 111.6 | 2.51 | -.115 | 2.829 | 111.4 | 4.46E-06 | 3.79E-05 | 7.97E-04 | 6.77E-03 |
| | | | | | 112.4 | 4.41E-06 | 3.75E-05 | | |
| | | | | | 113.4 | 3.71E-06 | 3.16E-05 | | |
| 2200 | 110.6 | 2.21 | .387 | 3.050 | 110.0 | 3.09E-06 | 2.63E-05 | 6.76E-04 | 5.75E-03 |
| | | | | | 112.0 | 2.21E-06 | 1.88E-05 | | |
| | | | | | 108.0 | 2.10E-06 | 1.78E-05 | | |
| 3200 | 109.6 | 2.28 | .064 | 2.454 | 108.8 | 1.01E-06 | 8.59E-06 | 3.54E-04 | 3.01E-03 |
| | | | | | 109.7 | 9.60E-07 | 8.16E-06 | | |
| | | | | | 107.8 | 8.79E-07 | 7.47E-06 | | |
| 5000 | 109.4? | 1.95X | -.769X | 4.719X | 110.0? | 3.58E-07? | 3.04E-06? | 8.79E-05X | 7.47E-04X |
| | | | | | 106.0? | 6.74E-08? | 5.73E-07? | | |
| | | | | | 112.0? | 3.11E-08? | 2.65E-07? | | |
| 7000 | 109.6? | 2.01? | .490? | 3.560? | 110.0? | 1.46E-07 | 1.24E-06 | 8.56E-05 | 7.27E-04 |
| | | | | | 108.0 | 1.18E-07 | 1.00E-06 | | |
| | | | | | 112.0 | 4.16E-08 | 3.54E-07 | | |
| 12800 | 111.7 | 1.82 | -.114 | 3.291 | 112.0 | 4.09E-08 | 3.47E-07 | 3.56E-05 | 3.03E-04 |
| | | | | | 113.0 | 3.32E-08 | 2.82E-07 | | |
| | | | | | 111.0 | 2.97E-08 | 2.53E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST 061 JUNE 6, 1968 0106 TO 0121 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 5.2M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | I/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/U) | CI(EU/U) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/SQ.M | I/SQ.M | SEC/SQ.M | I/M |
| 800 | 110.3 | 2.50 | .073 | 3.348 | 108.8 | 3.43E-05 | 1.79E-04 | 3.10E-03 | 1.61E-02 |
| | | | | | 110.7 | 3.20E-05 | 1.67E-04 | | |
| | | | | | 112.6 | 2.14E-05 | 1.11E-04 | | |
| 1200 | 109.4 | 2.43 | .546 | 5.353 | 108.0 | 8.99E-06 | 4.68E-05 | 1.18E-03 | 6.15E-03 |
| | | | | | 110.0 | 8.48E-06 | 4.41E-05 | | |
| | | | | | 112.0 | 5.27E-06 | 2.74E-05 | | |
| 1600 | 109.3 | 2.30 | .068 | 3.355 | 109.5 | 7.65E-06 | 3.97E-05 | 1.29E-03 | 6.69E-03 |
| | | | | | 108.5 | 7.21E-06 | 3.75E-05 | | |
| | | | | | 111.4 | 6.79E-06 | 3.53E-05 | | |
| 2200 | 106.9 | 1.68 | .490 | 7.322 | 108.0 | 4.05E-06 | 2.52E-05 | 6.90E-04 | 3.59E-03 |
| | | | | | 110.0 | 3.10E-06 | 1.61E-05 | | |
| | | | | | 112.0 | 5.26E-07 | 2.74E-06 | | |
| 3200 | 107.9 | 2.06 | .264 | 2.845 | 106.8 | 1.42E-06 | 7.37E-06 | 5.61E-04 | 1.68E-03 |
| | | | | | 107.8 | 1.18E-06 | 6.14E-06 | | |
| | | | | | 108.8 | 1.02E-06 | 5.32E-06 | | |
| 5000 | 107.3? | 2.28X | .508X? | 3.458X | 106.0? | 3.69E-07? | 1.92E-06? | 8.39E-05X | 4.36E-04X |
| | | | | | 110.0? | 2.56E-07? | 1.34E-06? | | |
| | | | | | 104.0? | 7.21E-08? | 3.75E-07? | | |
| 7000 | 108.9 | 2.07 | -.166 | 3.683 | 108.0 | 3.03E-07 | 1.58E-06 | 2.14E-04 | 1.11E-03 |
| | | | | | 110.0 | 3.03E-07 | 1.58E-06 | | |
| | | | | | 106.0 | 1.32E-07 | 6.84E-07 | | |
| 12600 | 110.7 | 1.88 | .064 | 2.699 | 113.0 | 8.28E-08 | 4.31E-07 | 7.82E-05 | 4.06E-04 |
| | | | | | 109.0 | 6.96E-08 | 3.62E-07 | | |
| | | | | | 110.0 | 6.52E-08 | 3.39E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202913

SAMPLING BOOM TO 12800M,NO TOWER SAMPLING. ALL ARCS EMBRACED CROSSWIND EXTENT OF TRACER.
ZINC SULFIDE DISPERSED FOR 30 MIN, DISPERSAL DIFFICULTIES RESTRICTED FLUORESCEIN DISPERSAL TO 19.5 MIN.
LIGHT RAIN FELL AFTER TRACER RELEASE ENDED BUT BEFORE ALL FILTERS COLLECTED. NO OBVIOUS EFFECT ON TRACERS.

TEST U62 JUNE 7, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 3.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 800 | 108.5 | 4.39 | .158 | 2.620 | 106.9 | 1.08E-05 | 9.08E-05 | 1.76E-03 | 1.48E-02 |
| | | | | | 108.8 | 1.06E-05 | 8.87E-05 | | |
| | | | | | 105.0 | 9.24E-06 | 7.76E-05 | | |
| 1200 | 108.8 | 4.08 | .169 | 2.613 | 108.0 | 5.27E-06 | 4.43E-05 | 1.06E-03 | 8.88E-03 |
| | | | | | 106.0 | 4.28E-06 | 3.60E-05 | | |
| | | | | | 110.0 | 3.68E-06 | 3.09E-05 | | |
| 1600 | 109.4 | 3.77 | .086 | 2.548 | 109.5 | 2.93E-06 | 2.46E-05 | 5.69E-04 | 4.78E-03 |
| | | | | | 105.5 | 1.78E-06 | 1.49E-05 | | |
| | | | | | 108.5 | 1.74E-06 | 1.46E-05 | | |
| 2200 | 109.6 | 3.61 | .209 | 2.742 | 110.0 | 1.72E-06 | 1.45E-05 | 6.27E-04 | 5.27E-03 |
| | | | | | 108.0 | 1.71E-06 | 1.44E-05 | | |
| | | | | | 106.0 | 1.25E-06 | 1.05E-05 | | |
| 3200 | 110.0 | 3.18 | -.043 | 2.277 | 112.7 | 1.23E-06 | 1.03E-05 | 5.27E-04 | 4.43E-03 |
| | | | | | 110.7 | 9.88E-07 | 8.30E-06 | | |
| | | | | | 106.8 | 9.79E-07 | 8.22E-06 | | |
| 5000 | 110.5 | 2.54 | .000 | 2.983 | 110.0 | 6.17E-07 | 5.19E-06 | 3.63E-04 | 3.05E-03 |
| | | | | | 112.0 | 5.72E-07 | 4.81E-06 | | |
| | | | | | 108.0 | 3.86E-07 | 3.24E-06 | | |
| 7000 | 110.9 | 2.26 | -.165 | 4.848 | 112.0 | 2.75E-07 | 2.31E-06 | 1.95E-04 | 1.64E-03 |
| | | | | | 110.0 | 2.66E-07 | 2.23E-06 | | |
| | | | | | 114.0 | 1.07E-07 | 9.02E-07 | | |
| 12800 | 111.4 | 1.34 | -.192 | 4.116 | 111.0 | 2.94E-07 | 2.47E-06 | 1.98E-04 | 1.67E-03 |
| | | | | | 112.0 | 2.12E-07 | 1.78E-06 | | |
| | | | | | 110.0 | 1.38E-07 | 1.16E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U62 1 2 0 2 3 7 4

TEST U62 JUNE 7, 1969 0100 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 5.4M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 800 | 105.5 | 3.52 | .325 | 2.886 | 103.0 | 3.34E-05 | 1.80E-04 | 4.29E-03 | 2.31E-02 |
| | | | | | 105.0 | 3.28E-05 | 1.77E-04 | | |
| | | | | | 107.0 | 2.55E-05 | 1.36E-04 | | |
| 1200 | 106.0 | 3.28 | .140 | 2.940 | 104.0 | 5.52E-06 | 2.98E-05 | 1.05E-03 | 5.67E-03 |
| | | | | | 106.0 | 5.52E-06 | 2.98E-05 | | |
| | | | | | 108.0 | 5.01E-06 | 2.70E-05 | | |
| 1600 | 106.1 | 3.05 | .129 | 2.602 | 106.5 | 2.75E-06 | 1.48E-05 | 5.43E-04 | 2.93E-03 |
| | | | | | 109.5 | 2.41E-06 | 1.30E-05 | | |
| | | | | | 103.6 | 2.33E-06 | 1.26E-05 | | |
| 2200 | 106.9 | 2.67 | .396 | 3.220 | 106.0 | 2.60E-06 | 1.40E-05 | 6.37E-04 | 3.44E-03 |
| | | | | | 108.0 | 1.99E-06 | 1.07E-05 | | |
| | | | | | 104.0 | 1.58E-06 | 8.54E-06 | | |
| 3200 | 107.6 | 2.37 | .337 | 3.028 | 106.8 | 1.96E-06 | 1.06E-05 | 5.43E-04 | 2.93E-03 |
| | | | | | 107.8 | 1.54E-06 | 8.33E-06 | | |
| | | | | | 105.8 | 1.43E-06 | 7.72E-06 | | |
| 5000 | 109.1 | 2.17 | .127 | 3.116 | 110.0 | 6.51E-07 | 3.52E-06 | 3.09E-04 | 1.67E-03 |
| | | | | | 108.0 | 5.18E-07 | 2.80E-06 | | |
| | | | | | 106.0 | 3.09E-07 | 1.67E-06 | | |
| 7000 | 110.2 | 2.92 | -.046 | 2.786 | 112.0 | 1.65E-07 | 8.90E-07 | 8.73E-05 | 4.71E-04 |
| | | | | | 108.0 | 1.61E-07 | 8.70E-07 | | |
| | | | | | 106.0 | 5.13E-05 | 2.77E-07 | | |
| 12800 | 111.8 | 1.45 | .181 | 3.748 | 112.0 | 2.39E-07 | 1.29E-06 | 1.75E-04 | 9.44E-04 |
| | | | | | 111.0 | 1.91E-07 | 1.03E-06 | | |
| | | | | | 113.0 | 1.25E-07 | 6.74E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202075

SAMPLING 400M TO 12800M, NO TOWER SAMPLING.
ZINC SULFIDE DISPERSED FOR 30 MIN, DISPERSAL DIFFICULTIES RESTRICTED FLUORESCEIN DISPERSAL TO 25 MIN.
2200M AND 12800M ARCS TRUNCATED ON NORTH; 12800M DATA EXTRAPOLATED SLIGHTLY .

TEST U63 JUNE 24, 1968 0100 TO 0130 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 6.0M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 109.0 | 2.66 | -.442 | 3.667 | 110.0 | 2.57E-05 | 1.54E-04 | 1.16E-03 | 6.96E-03 |
| | | | | | 106.0 | 1.07E-05 | 6.44E-05 | | |
| | | | | | 114.0 | 3.53E-06 | 2.12E-05 | | |
| 800 | 109.3 | 2.49 | -.198 | 2.755 | 108.8 | 4.42E-05 | 2.65E-04 | 3.94E-03 | 2.37E-02 |
| | | | | | 110.7 | 3.20E-05 | 1.92E-04 | | |
| | | | | | 112.6 | 2.55E-05 | 1.53E-04 | | |
| 1200 | 109.2 | 2.11 | -.066 | 2.791 | 110.0 | 2.79E-05 | 1.67E-04 | 3.54E-03 | 2.13E-02 |
| | | | | | 108.0 | 2.78E-05 | 1.67E-04 | | |
| | | | | | 112.0 | 1.49E-05 | 8.93E-05 | | |
| 1600 | 109.2 | 1.97 | .007 | 2.664 | 108.5 | 2.19E-05 | 1.31E-04 | 3.11E-03 | 1.87E-02 |
| | | | | | 110.4 | 2.14E-05 | 1.28E-04 | | |
| | | | | | 107.5 | 1.62E-05 | 9.73E-05 | | |
| 2200 | 110.4X | .91X | 2.105X | 6.974X | 110.0X | 1.52E-05X | 9.13E-05X | 1.44E-03X | 8.64E-03X |
| | | | | | 112.0X | 3.18E-06X | 1.91E-05X | | |
| | | | | | 114.0X | 3.50E-07X | 2.10E-06X | | |
| 3200 | 108.67 | 2.327 | -1.3107 | 6.2787 | 108.87 | 8.74E-06? | 5.24E-05? | 2.37E-03? | 1.42E-02? |
| | | | | | 109.77 | 8.39E-06? | 5.03E-05? | | |
| | | | | | 107.87 | 6.78E-06? | 4.07E-05? | | |
| 5000 | 106.6 | 3.28 | -.448 | 2.805 | 106.0 | 1.24E-06 | 7.46E-06 | 9.03E-04 | 5.42E-03 |
| | | | | | 108.0 | 1.22E-06 | 7.30E-06 | | |
| | | | | | 110.0 | 1.09E-06 | 6.52E-06 | | |
| 7000 | 105.9 | 3.64 | -.446 | 2.533 | 108.0 | 8.12E-07 | 4.87E-06 | 6.92E-04 | 4.15E-03 |
| | | | | | 104.0 | 6.94E-07 | 4.17E-06 | | |
| | | | | | 110.0 | 5.11E-07 | 3.06E-06 | | |
| 12800 | 105.8 | 4.89 | -.852 | 4.642 | 107.0 | 8.63E-07 | 5.18E-06 | 1.08E-03 | 6.51E-03 |
| | | | | | 108.0 | 8.28E-07 | 4.97E-06 | | |
| | | | | | 109.0 | 5.58E-07 | 3.35E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U63 JUNE 24, 1968 0105 TO 0130 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 3.0M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 106.5 | 3.24 | -.579 | 4.514 | 106.0 | 2.31E-04 | 6.94E-04 | 1.23E-02 | 3.70E-02 |
| | | | | | 110.0 | 1.36E-04 | 4.09E-04 | | |
| | | | | | 102.0 | 4.75E-05 | 1.42E-04 | | |
| 800 | 107.3 | 2.37 | -.464 | 3.294 | 108.8 | 1.20E-04 | 3.61E-04 | 1.00E-02 | 3.01E-02 |
| | | | | | 106.9 | 1.13E-04 | 3.39E-04 | | |
| | | | | | 105.0 | 5.09E-05 | 1.53E-04 | | |
| 1200 | 107.5 | 2.11 | -.190 | 2.822 | 108.0 | 3.64E-05 | 1.09E-04 | 4.05E-03 | 1.22E-02 |
| | | | | | 106.0 | 2.44E-05 | 7.32E-05 | | |
| | | | | | 110.0 | 2.11E-05 | 6.33E-05 | | |
| 1600 | 107.8 | 1.84 | -.082 | 3.630 | 107.5 | 2.52E-05 | 7.57E-05 | 3.37E-03 | 1.01E-02 |
| | | | | | 108.5 | 2.44E-05 | 7.33E-05 | | |
| | | | | | 106.5 | 2.12E-05 | 6.35E-05 | | |
| 2200 | 110.1X | .54X | 3.796X | 18.330X | 110.0X | 4.21E-06X | 1.26E-05X | 3.47E-04X | 1.04E-03X |
| | | | | | 112.0X | 3.03E-07X | 9.08E-07X | | |
| | | | | | 114.0X | 1.06E-06X | 3.18E-08X | | |
| 3200 | 106.8 | 2.96 | -1.410 | 5.840 | 107.6 | 5.96E-06 | 1.79E-05 | 1.69E-03 | 5.07E-03 |
| | | | | | 106.8 | 4.97E-06 | 1.49E-05 | | |
| | | | | | 108.8 | 4.86E-06 | 1.46E-05 | | |
| 5000 | 105.2 | 3.54 | -.651 | 3.144 | 108.0 | 1.12E-06 | 3.37E-06 | 7.35E-04 | 2.21E-03 |
| | | | | | 106.0 | 1.01E-06 | 3.03E-06 | | |
| | | | | | 104.0 | 7.15E-07 | 2.15E-06 | | |
| 7000 | 104.1 | 3.88 | -.186 | 2.351 | 104.0 | 5.61E-07 | 1.68E-06 | 6.56E-04 | 1.97E-03 |
| | | | | | 106.0 | 4.91E-07 | 1.47E-06 | | |
| | | | | | 108.0 | 4.10E-07 | 1.23E-06 | | |
| 12800 | 104.6 | 4.53 | -.826 | 4.184 | 107.0 | 4.44E-07 | 1.33E-06 | 6.35E-04 | 1.91E-03 |
| | | | | | 108.0 | 3.83E-07 | 1.15E-06 | | |
| | | | | | 106.0 | 3.70E-07 | 1.11E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202977

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.
ZINC SULFIDE DISPERSED FOR 30 MIN, DISPERSAL DIFFICULTIES RESTRICTED FLUORESCEIN DISPERSAL TO 20 MIN.
LARGE WIND DIRECTION SHEAR BETWEEN TRACER RELEASE LEVELS. TRACER DISTRIBUTIONS SKEWED LONG TAIL TO THE NORTH.

TEST U64 JUNE 25, 1968 0347 TO 0417 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.3M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 111.7 | 4.60 | -1.793 | 10.450 | 114.0 | 3.24E-06 | 1.72E-05 | 1.83E-04 | 9.72E-04 |
| | | | | | 110.0 | 2.09E-06 | 1.06E-05 | | |
| | | | | | 106.0 | 5.21E-07 | 2.76E-06 | | |
| 800 | 112.5 | 5.05 | -.417 | 2.796 | 114.5 | 5.32E-06 | 2.82E-05 | 8.52E-04 | 4.52E-03 |
| | | | | | 112.6 | 4.43E-06 | 2.35E-05 | | |
| | | | | | 116.4 | 4.37E-06 | 2.32E-05 | | |
| 1200 | 113.1 | 4.98 | -.426 | 3.026 | 114.0 | 6.66E-06 | 3.53E-05 | 1.40E-03 | 7.44E-03 |
| | | | | | 112.0 | 4.75E-06 | 2.52E-05 | | |
| | | | | | 110.0 | 4.42E-06 | 2.34E-05 | | |
| 1600 | 114.4 | 5.55 | -.439 | 2.694 | 121.2 | 4.94E-06 | 2.62E-05 | 1.78E-03 | 9.42E-03 |
| | | | | | 116.3 | 4.59E-06 | 2.43E-05 | | |
| | | | | | 118.2 | 4.58E-06 | 2.43E-05 | | |
| 2200 | 111.6 | 3.94 | .860 | 5.545 | 110.0 | 5.06E-06 | 2.68E-05 | 8.08E-04 | 4.28E-03 |
| | | | | | 112.0 | 1.52E-06 | 8.03E-06 | | |
| | | | | | 108.0 | 1.03E-06 | 5.44E-06 | | |
| 3200 | 120.1 | 5.51 | -.355 | 2.718 | 113.7 | 3.19E-06 | 1.69E-05 | 1.67E-03 | 8.86E-03 |
| | | | | | 125.4 | 2.89E-06 | 1.53E-05 | | |
| | | | | | 116.6 | 2.57E-06 | 1.36E-05 | | |
| 5000 | 126.9 | 3.58 | -3.267 | 21.874 | 128.0 | 2.83E-06 | 1.50E-05 | 9.56E-04 | 5.06E-03 |
| | | | | | 130.0 | 7.66E-07 | 4.06E-06 | | |
| | | | | | 124.0 | 7.47E-07 | 3.96E-06 | | |
| 7000 | 128.9? | 3.31? | -2.572? | 26.857? | 128.0? | 3.40E-06? | 1.80E-05? | 2.38E-03X | 1.26E-02X |
| | | | | | 130.0? | 3.07E-06? | 1.63E-05? | | |
| | | | | | 132.0? | 1.12E-06? | 5.94E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U64 JUNE 25, 1968 0347 TO 0407 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.6M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 90.2 | 5.11 | .414 | 3.877 | 90.0 | 1.71E-04 | 2.74E-04 | 1.40E-02 | 2.24E-02 |
| | | | | | 94.0 | 1.06E-04 | 1.69E-04 | | |
| | | | | | 86.0 | 1.00E-04 | 1.60E-04 | | |
| 800 | 96.6 | 6.89 | -.229 | 2.205 | 97.1 | 5.54E-05 | 8.87E-05 | 1.52E-02 | 2.43E-02 |
| | | | | | 91.0 | 5.38E-05 | 8.61E-05 | | |
| | | | | | 101.0 | 5.16E-05 | 8.25E-05 | | |
| 1200 | 95.7 | 6.13 | .205 | 2.339 | 94.0 | 2.90E-05 | 4.63E-05 | 1.07E-02 | 1.72E-02 |
| | | | | | 92.0 | 2.79E-05 | 4.46E-05 | | |
| | | | | | 96.0 | 2.79E-05 | 4.46E-05 | | |
| 1600 | 98.6 | 5.39 | .310 | 2.588 | 94.6 | 2.64E-05 | 4.22E-05 | 8.30E-03 | 1.33E-02 |
| | | | | | 93.6 | 2.18E-05 | 3.50E-05 | | |
| | | | | | 95.6 | 2.12E-05 | 3.39E-05 | | |
| 2200 | 101.7 | 4.95 | .176 | 3.767 | 100.0 | 7.52E-06 | 1.20E-05 | 2.11E-03 | 3.36E-03 |
| | | | | | 102.0 | 4.26E-06 | 6.81E-06 | | |
| | | | | | 96.0 | 2.50E-06 | 4.01E-06 | | |
| 3200 | 110.4 | 4.79 | -1.140 | 6.141 | 113.7 | 4.76E-06 | 7.62E-06 | 1.70E-03 | 2.72E-03 |
| | | | | | 112.7 | 3.97E-06 | 6.35E-06 | | |
| | | | | | 109.7 | 2.48E-06 | 3.97E-06 | | |
| 5000 | 117.6 | 6.81 | -.891 | 4.500 | 120.0 | 7.85E-07 | 1.26E-06 | 7.35E-04 | 1.18E-03 |
| | | | | | 122.0 | 6.01E-07 | 9.62E-07 | | |
| | | | | | 118.0 | 5.58E-07 | 8.93E-07 | | |
| 7000 | 123.7 | 7.09 | -1.788 | 6.823 | 126.0 | 1.13E-06 | 1.82E-06 | 1.11E-03 | 1.78E-03 |
| | | | | | 128.0 | 8.73E-07 | 1.40E-06 | | |
| | | | | | 130.0 | 6.11E-07 | 9.77E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202019

SAMPLING 400M TO 12800M, NO TOWER SAMPLING.
BIMODAL DISTRIBUTION FOR BOTH TRACERS.
TRACER DISTRIBUTIONS TRUNCATED ON NORTH EDGE BEYOND 2200M ARC.

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.5M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 78.77 | 10.537 | .2327 | 1.5047 | 70.07 | 6.46E-067 | 3.55E-057 | 6.35E-047 | 3.49E-037 |
| | | | | | 90.07 | 4.40E-067 | 2.42E-057 | | |
| | | | | | 74.07 | 3.34E-067 | 1.84E-057 | | |
| 800 | 81.3 | 10.38 | -.039 | 1.560 | 91.0 | 1.16E-05 | 6.40E-05 | 3.07E-03 | 1.69E-02 |
| | | | | | 70.0 | 1.11E-05 | 6.12E-05 | | |
| | | | | | 73.0 | 1.10E-05 | 6.03E-05 | | |
| 1200 | 80.7 | 10.06 | -.245 | 1.559 | 90.0 | 9.23E-06 | 5.07E-05 | 2.93E-03 | 1.61E-02 |
| | | | | | 88.0 | 8.76E-06 | 4.82E-05 | | |
| | | | | | 92.0 | 6.25E-06 | 3.44E-05 | | |
| 1600 | 80.5 | 11.03 | -.176 | 1.430 | 70.0 | 3.79E-06 | 2.08E-05 | 1.64E-03 | 9.03E-03 |
| | | | | | 92.0 | 3.58E-06 | 1.97E-05 | | |
| | | | | | 88.0 | 3.15E-06 | 1.73E-05 | | |
| 2200 | 77.7 | 10.63 | -.172 | 1.692 | 86.0 | 1.18E-06 | 6.47E-06 | 7.38E-04 | 4.06E-03 |
| | | | | | 90.0 | 1.07E-06 | 5.86E-06 | | |
| | | | | | 68.0 | 9.30E-07 | 5.12E-06 | | |
| 3200 | 82.57 | 7.717 | -1.180X | 4.060X | 87.8 | 2.21E-06 | 1.22E-05 | 1.24E-037 | 6.84E-037 |
| | | | | | 58.8 | 1.98E-06 | 1.09E-05 | | |
| | | | | | 82.8 | 1.33E-06 | 7.33E-06 | | |
| 5000 | 85.8X | 2.99X | .724X | 4.094X | 86.07 | 4.61E-077 | 2.54E-067 | 2.92E-04X | 1.61E-03X |
| | | | | | 82.07 | 3.93E-077 | 2.16E-067 | | |
| | | | | | 84.07 | 3.58E-077 | 1.97E-067 | | |
| 7000 | 82.6X | 3.66X | 1.188X | 5.604X | 82.07 | 6.15E-077 | 3.38E-067 | 2.11E-04X | 1.16E-03X |
| | | | | | 76.07 | 6.21E-067 | 3.41E-077 | | |
| | | | | | 90.07 | 5.36E-067 | 2.96E-077 | | |
| 12800 | 93.2X | 1.96X | .281X | 1.551X | 91.0X | 4.47E-08X | 2.46E-07X | 3.40E-05X | 1.87E-04X |
| | | | | | 92.0X | 3.45E-08X | 1.90E-07X | | |
| | | | | | 96.0X | 2.65E-06X | 1.46E-07X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U65 120290

TEST U65 JUNE 27, 1968 0332 TO 0402 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 3.0M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 73.47 | 11.107 | .5617 | 1.9067 | 66.07 | 3.06E-057 | 9.19E-057 | 4.26E-037 | 1.28E-027 |
| | | | | | 70.07 | 2.93E-057 | 8.80E-057 | | |
| | | | | | 62.07 | 2.61E-057 | 7.82E-057 | | |
| 800 | 78.3 | 10.51 | -.195 | 1.534 | 88.0 | 2.93E-05 | 6.60E-05 | 6.59E-03 | 1.98E-02 |
| | | | | | 91.0 | 1.96E-05 | 5.87E-05 | | |
| | | | | | 85.0 | 1.89E-05 | 5.67E-05 | | |
| 1200 | 79.1 | 10.90 | -.462 | 1.735 | 89.0 | 1.64E-05 | 4.91E-05 | 4.09E-03 | 1.23E-02 |
| | | | | | 86.0 | 1.24E-05 | 3.71E-05 | | |
| | | | | | 90.0 | 1.09E-05 | 3.27E-05 | | |
| 1600 | 77.1 | 11.66 | -.151 | 1.579 | 86.0 | 5.11E-06 | 1.53E-05 | 2.34E-03 | 7.03E-03 |
| | | | | | 88.0 | 5.11E-06 | 1.53E-05 | | |
| | | | | | 90.0 | 4.20E-06 | 1.26E-05 | | |
| 2200 | 75.2 | 11.37 | -.231 | 1.734 | 84.0 | 2.61E-06 | 7.82E-06 | 1.54E-03 | 4.61E-03 |
| | | | | | 86.0 | 2.37E-06 | 7.11E-06 | | |
| | | | | | 64.0 | 2.18E-06 | 6.55E-06 | | |
| 3200 | 80.07 | 9.307 | -1.251X | 3.669X | 84.0 | 1.95E-06 | 5.85E-06 | 1.20E-037 | 3.59E-037 |
| | | | | | 86.0 | 1.57E-06 | 4.72E-06 | | |
| | | | | | 81.0 | 1.41E-06 | 4.24E-06 | | |
| 5500 | 84.7X | 2.33X | .834X | 3.301X | 84.07 | 9.26E-077 | 2.78E-067 | 3.92E-04X | 1.18E-03X |
| | | | | | 82.07 | 6.11E-077 | 1.83E-067 | | |
| | | | | | 86.07 | 4.92E-077 | 1.48E-067 | | |
| 7000 | 83.2X | 3.61X | .616X | 4.999X | 82.07 | 4.53E-077 | 1.36E-067 | 2.92E-04X | 8.77E-04X |
| | | | | | 84.07 | 2.90E-077 | 8.69E-077 | | |
| | | | | | 86.07 | 1.71E-077 | 5.14E-077 | | |
| 12600 | 92.7X | 1.71X | .710X | 2.143X | 91.0X | 7.67E-08X | 2.30E-07X | 4.88E-05X | 1.46E-04X |
| | | | | | 92.0X | 5.61E-08X | 1.68E-07X | | |
| | | | | | 94.0X | 3.17E-08X | 9.50E-08X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202981

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. MOST ARCS TRUNCATED ON NORTH. SMEARED OR BIMODAL DISTRIBUTIONS.
FAILURE OF SAMPLERS AT MID-ARC LEAVES THE 400M DATA ESSENTIALLY MEANINGLESS
IRREGULAR DISPERSAL RATE OF FLUORESCEIN FOR ABOUT 5 MIN OF THE 30 MIN DISPERSAL PERIOD (NEAR ABOUT 0340 PST).

TEST U66 JUNE 28, 1968 0331 TO 0401 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 3.5M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENTS MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C(E/Q) | C(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 81.3X | 19.31X | -.328X | 1.323X | 94.0? | 1.84E-06? | 6.43E-06? | 1.94E-04X | 6.79E-04X |
| | | | | | 98.0? | 1.30E-06? | 4.56E-06? | | |
| | | | | | 56.0? | 1.02E-06? | 3.57E-06? | | |
| 800 | 81.9X | 19.14X | -.501X | 1.547X | 97.1 | 2.53E-06 | 8.85E-06 | 4.80E-04X | 1.68E-03X |
| | | | | | 97.0 | 2.35E-06 | 8.24E-06 | | |
| | | | | | 99.1 | 1.60E-06 | 5.59E-06 | | |
| 1200 | 73.2X | 17.40X | .333X | 1.476X | 60.0 | 1.79E-06 | 6.24E-06 | 7.45E-04X | 2.61E-03X |
| | | | | | 98.0 | 1.71E-06 | 5.97E-06 | | |
| | | | | | 58.0 | 1.53E-06 | 5.35E-06 | | |
| 1600 | 72.8X | 15.97X | .605X | 1.943X | 64.0 | 1.85E-06 | 6.48E-06 | 7.24E-04X | 2.54E-03X |
| | | | | | 60.0 | 1.35E-06 | 4.73E-06 | | |
| | | | | | 66.0 | 9.45E-07 | 3.46E-06 | | |
| 2200 | 66.5X | 7.20X | .454X | 3.932X | 64.0 | 2.32E-06 | 8.14E-06 | 1.21E-03X | 4.23E-03X |
| | | | | | 66.0 | 1.90E-06 | 6.65E-06 | | |
| | | | | | 68.0 | 1.66E-06 | 5.81E-06 | | |
| 3200 | 76.3 | 7.15 | -.259 | 2.820 | 73.7 | 6.33E-07 | 2.22E-06 | 4.91E-04 | 1.72E-03 |
| | | | | | 79.6 | 6.08E-07 | 2.13E-06 | | |
| | | | | | 72.7 | 5.61E-07 | 1.96E-06 | | |
| 5000 | 86.3X | 4.71X | .542X | 1.877X | 82.0X | 3.53E-07X | 1.24E-06X | 1.14E-04X | 4.01E-04X |
| | | | | | 92.0X | 1.15E-07X | 4.03E-07X | | |
| | | | | | 88.0X | 8.29E-08X | 2.90E-07X | | |
| 7000 | 82.8X | 3.37X | .139X | 3.358X | 84.0? | 6.94E-07?? | 2.43E-06? | 5.23E-04X | 1.85E-03X |
| | | | | | 82.0? | 6.15E-07?? | 2.15E-06? | | |
| | | | | | 80.0? | 2.63E-07?? | 9.22E-07?? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U66 | 2062902

TEST 066 JUNE 28, 1968 0331 TO 0401 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 1.4M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C(E/Q) | C(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 77.5X | 18.53X | -.236X | 1.637X | 94.0? | 5.02E-05? | 7.03E-05? | 5.74E-03X | 6.04E-03X |
| | | | | | 98.0? | 2.90E-05? | 4.06E-05? | | |
| | | | | | 74.0? | 2.59E-05? | 3.62E-05? | | |
| 800 | 64.3X | 20.94X | .429X | 1.510X | 49.0? | 1.72E-05? | 2.40E-05? | 5.64E-03X | 7.89E-03X |
| | | | | | 43.0? | 1.55E-05? | 2.17E-05? | | |
| | | | | | 46.0? | 1.39E-05? | 1.94E-05? | | |
| 1200 | 60.4X | 12.20X | 1.572X | 4.578X | 56.0 | 1.14E-05 | 1.59E-05 | 3.49E-03X | 4.89E-03X |
| | | | | | 54.0 | 1.09E-05 | 1.53E-05 | | |
| | | | | | 58.0 | 1.09E-05 | 1.53E-05 | | |
| 1600 | 58.6X | 10.26X | 2.221X | 8.273X | 56.0 | 8.92E-06 | 1.25E-05 | 3.00E-03X | 4.20E-03X |
| | | | | | 52.0 | 7.74E-06 | 1.08E-05 | | |
| | | | | | 58.0 | 6.43E-06 | 9.00E-06 | | |
| 2200 | 58.6X | 7.13X | .818X | 3.482X | 56.0 | 4.55E-06 | 6.30E-06 | 2.91E-03X | 4.07E-03X |
| | | | | | 54.0 | 4.43E-06 | 6.20E-06 | | |
| | | | | | 58.0 | 4.36E-06 | 6.10E-06 | | |
| 3200 | 66.0 | 7.23 | .393 | 2.947 | 62.0 | 9.23E-07 | 1.29E-06 | 8.05E-04 | 1.13E-03 |
| | | | | | 64.0 | 8.52E-07 | 1.19E-06 | | |
| | | | | | 66.0 | 8.52E-07 | 1.19E-06 | | |
| 5000 | 84.6X | 3.85X | 1.316X | 3.757X | 82.0X | 9.80E-08X | 1.37E-07X | 2.53E-05X | 3.54E-05X |
| | | | | | 86.0X | 2.05E-08X | 2.87E-08X | | |
| | | | | | 90.0X | 1.54E-08X | 2.16E-08X | | |
| 7000 | 81.0X | 3.77X | .587X | 3.300X | 82.0? | 1.67E-07?? | 2.34E-07?? | 1.72E-04X | 2.41E-04X |
| | | | | | 84.0? | 1.48E-07?? | 2.08E-07?? | | |
| | | | | | 76.0? | 1.39E-07?? | 1.94E-07?? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202903

SAMPLING 400M TO 7000M. NO TOWERS.  SAMPLER FAILURE IN MIDDLE OF 400M ARC LEAVES DATA HERE OF MINIMAL VALUE
SOME QUESTION ON THE MASS OF FLUORESCEIN EMITTED BECAUSE OF DISPERSAL PROBLEMS.
5000M AND 7000M ARCS TRUNCATED ON NORTH

TEST 067  JULY 15, 1968  0315 TO 0343 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF - 26M
SAMPLER AT 1.5M  U= 4.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 89.0X | 6.40X | .008X | 2.194X | 86.0X | 1.00E-05X | 4.42E-05X | 1.16E-03X | 5.12E-03X |
| | | | | | 94.0X | 9.56E-06X | 4.21E-05X | | |
| | | | | | 82.0X | 8.32E-06X | 3.66E-05X | | |
| 800 | 67.6 | 7.92 | .101 | 1.593 | 82.0 | 1.77E-05 | 7.80E-05 | 3.06E-03 | 1.35E-02 |
| | | | | | 79.0 | 1.27E-05 | 5.60E-05 | | |
| | | | | | 87.1 | 8.83E-06 | 3.89E-05 | | |
| 1200 | 65.4 | 7.49 | .309 | 1.739 | 78.0 | 1.23E-05 | 5.41E-05 | 3.45E-03 | 1.52E-02 |
| | | | | | 80.0 | 1.20E-05 | 5.30E-05 | | |
| | | | | | 82.0 | 8.95E-06 | 3.94E-05 | | |
| 1600 | 89.3 | 8.54 | -.514 | 1.775 | 93.6 | 7.78E-06 | 3.42E-05 | 2.45E-03 | 1.08E-02 |
| | | | | | 78.0 | 5.94E-06 | 2.61E-05 | | |
| | | | | | 94.6 | 4.78E-06 | 2.11E-05 | | |
| 2200 | 83.0 | 8.07 | .517 | 1.975 | 78.0 | 3.16E-06 | 1.39E-05 | 1.71E-03 | 7.52E-03 |
| | | | | | 76.0 | 3.03E-06 | 1.33E-05 | | |
| | | | | | 80.0 | 2.56E-06 | 1.13E-05 | | |
| 4200 | 83.1 | 7.94 | .447 | 1.917 | 75.7 | 4.73E-06 | 2.08E-05 | 4.07E-03 | 1.79E-02 |
| | | | | | 74.7 | 4.61E-06 | 2.03E-05 | | |
| | | | | | 76.6 | 4.53E-06 | 1.99E-05 | | |
| 5000 | 86.2X | 5.10X | 1.041X | 2.855X | 82.0X | 1.66E-06X | 8.19E-06X | 6.65E-04X | 2.93E-03X |
| | | | | | 86.0X | 6.88E-07X | 3.03E-06X | | |
| | | | | | 94.0X | 3.08E-07X | 1.35E-06X | | |
| 7000 | 81.9X | 5.79X | 1.257X | 3.678X | 78.0X | 1.61E-06X | 7.07E-06X | 1.22E-03X | 5.38E-03X |
| | | | | | 82.0X | 1.02E-06X | 4.47E-06X | | |
| | | | | | 76.0X | 8.10E-07X | 3.57E-06X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U67 JULY 15, 1968 0313 TO 0343 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.3M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 77.0? | 5.60? | 1.412? | 4.934? | 74.0? | 1.14E-05? | 2.63E-05? | 6.71E-04? | 1.54E-03? |
| | | | | | 78.0? | 5.22E-06? | 1.20E-05? | | |
| | | | | | 82.0? | 2.39E-06? | 5.50E-06? | | |
| 800 | 78.5 | 5.54 | 1.720 | 6.080 | 76.0 | 5.21E-06? | 1.20E-05? | 6.36E-04? | 1.46E-03? |
| | | | | | 79.0 | 3.45E-06? | 7.94E-06? | | |
| | | | | | 73.0 | 3.14E-06? | 7.23E-06? | | |
| 1200 | 77.6 | 4.67 | 2.127 | 7.996 | 76.0 | 2.27E-06? | 5.21E-06? | 2.90E-04? | 6.67E-04? |
| | | | | | 78.0 | 1.50E-06? | 3.44E-06? | | |
| | | | | | 74.0 | 1.37E-06? | 3.15E-06? | | |
| 1600 | 77.1 | 6.23 | 1.826 | 5.648 | 74.0 | 1.71E-06? | 3.93E-06? | 2.88E-04? | 6.63E-04? |
| | | | | | 76.0 | 9.11E-07? | 2.09E-06? | | |
| | | | | | 72.0 | 8.34E-07? | 1.92E-06? | | |
| 2200 | 76.2 | 4.97 | 2.303 | 9.056 | 74.0 | 7.33E-07? | 1.69E-06? | 1.89E-04? | 4.35E-04? |
| | | | | | 76.0 | 5.55E-07? | 1.28E-06? | | |
| | | | | | 72.0 | 4.60E-07? | 1.06E-06? | | |
| 3200 | 76.0 | 4.69 | 1.964 | 8.887 | 72.7 | 5.45E-07? | 1.25E-06? | 2.64E-04? | 6.08E-04? |
| | | | | | 74.7 | 5.45E-07? | 1.25E-06? | | |
| | | | | | 75.7 | 5.07E-07? | 1.17E-06? | | |
| 5000 | 85.0X | 4.25X | 1.610X | 4.470X | 82.0X | 7.69E-08X | 1.77E-07X | 2.81E-05X | 6.46E-05X |
| | | | | | 84.0X | 4.52E-08X | 1.04E-07X | | |
| | | | | | 86.0X | 1.97E-08X | 4.52E-08X | | |
| 7000 | 79.8X | 3.83X | 1.671X | 8.145X | 76.0X | 1.44E-07X | 3.32E-07X | 1.19E-04X | 2.74E-04X |
| | | | | | 78.0X | 1.18E-07X | 2.70E-07X | | |
| | | | | | 80.0X | 9.81E-08X | 2.26E-07X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202085

SAMPLING FROM 400M TO 12800M. NO TOWER SAMPLING. BIMODAL DISTRIBUTIONS.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER EXCEPT 7000M ARC. ALSO, ALTHOUGH 12800M ARC DROPS TO BACKGROUND VALUES AT NORTH EXTREMITY OF SAMPLING, THERE MAY HAVE BEEN MORE TRACER NORTH OF THE SAMPLERS.

TEST 064 JULY 16, 1966 0310 TO 0340 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.7M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 104.4 | 8.26 | -.446 | 1.434 | 110.0 | 1.89E-05 | 6.90E-05 | 1.51E-03 | 7.08E-03 |
| | | | | | 114.0 | 7.70E-06 | 3.62E-05 | | |
| | | | | | 94.0 | 7.66E-06 | 3.60E-05 | | |
| 800 | 107.1 | 6.42 | -.945 | 2.726 | 110.7 | 4.32E-05 | 2.03E-04 | 5.31E-03 | 2.50E-02 |
| | | | | | 108.8 | 3.46E-05 | 1.62E-04 | | |
| | | | | | 112.6 | 3.12E-05 | 1.47E-04 | | |
| 1200 | 105.7 | 7.00 | -.730 | 2.141 | 110.0 | 2.94E-05 | 1.38E-04 | 5.05E-03 | 2.38E-02 |
| | | | | | 112.0 | 2.19E-05 | 1.03E-04 | | |
| | | | | | 108.0 | 1.41E-05 | 6.61E-05 | | |
| 1600 | 105.9 | 5.54 | -.555 | 2.052 | 110.4 | 2.19E-05 | 1.03E-04 | 4.95E-03 | 2.32E-02 |
| | | | | | 109.5 | 2.03E-05 | 9.55E-05 | | |
| | | | | | 111.4 | 1.89E-05 | 8.87E-05 | | |
| 2200 | 105.77 | 6.007 | -.310? | 2.443? | 110.0? | 6.79E-06? | 3.19E-05? | 1.64E-03? | 8.66E-03? |
| | | | | | 108.0 | 4.45E-06 | 2.09E-05 | | |
| | | | | | 112.0 | 2.23E-06 | 1.05E-05 | | |
| 3200 | 105.5 | 6.29 | -.543 | 2.062 | 110.7 | 9.78E-06 | 4.60E-05 | 4.25E-03 | 2.00E-02 |
| | | | | | 111.7 | 9.33E-06 | 4.39E-05 | | |
| | | | | | 109.7 | 6.28E-06 | 2.95E-05 | | |
| 5000 | 106.0 | 6.19 | -.575 | 2.468 | 112.0 | 2.03E-06 | 9.55E-06 | 1.42E-03 | 6.65E-03 |
| | | | | | 106.0 | 9.99E-07 | 4.69E-06 | | |
| | | | | | 110.0 | 8.54E-07 | 4.01E-06 | | |
| 7000 | 102.9X | 7.22X | -.360X | 3.566X | 100.0 | 9.19E-07 | 4.32E-06 | 1.43E-03X | 6.71E-03X |
| | | | | | 104.0 | 9.19E-07 | 4.32E-06 | | |
| | | | | | 102.0 | 6.85E-07 | 3.22E-06 | | |
| 12800 | 95.77 | 2.07? | -.143? | 3.280? | 96.0? | 1.40E-08? | 6.56E-08? | 1.06E-05? | 4.97E-05? |
| | | | | | 95.0? | 8.53E-09? | 4.01E-08? | | |
| | | | | | 92.0? | 7.06E-09? | 3.32E-08? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST 068 JULY 16, 1968 0310 TO 0340 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 2.4M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 104.3 | 8.51 | -1.154 | 3.141 | 110.0 | 1.63E-04 | 3.91E-04 | 1.32E-02 | 3.18E-02 |
| | | | | | 106.0 | 1.30E-04 | 3.13E-04 | | |
| | | | | | 114.0 | 4.48E-05 | 1.08E-04 | | |
| 800 | 105.1 | 7.19 | -1.299 | 3.552 | 108.8 | 7.42E-05 | 1.78E-04 | 8.76E-03 | 2.10E-02 |
| | | | | | 106.9 | 6.30E-05 | 1.51E-04 | | |
| | | | | | 110.7 | 4.50E-05 | 1.08E-04 | | |
| 1200 | 102.3 | 8.38 | -.578 | 1.763 | 108.0 | 2.69E-05 | 6.45E-05 | 4.96E-03 | 1.19E-02 |
| | | | | | 110.0 | 2.23E-05 | 5.36E-05 | | |
| | | | | | 106.0 | 1.06E-05 | 2.54E-05 | | |
| 1600 | 104.5 | 7.09 | -.899 | 2.419 | 108.5 | 2.01E-05 | 4.83E-05 | 3.59E-03 | 8.63E-03 |
| | | | | | 109.5 | 1.32E-05 | 3.17E-05 | | |
| | | | | | 110.4 | 1.25E-05 | 3.01E-05 | | |
| 2200 | 102.1 | 7.77 | -.479 | 1.692 | 108.0 | 7.87E-06 | 1.89E-05 | 2.40E-03 | 5.77E-03 |
| | | | | | 110.0 | 4.72E-06 | 1.13E-05 | | |
| | | | | | 92.0 | 2.77E-06 | 6.65E-06 | | |
| 3200 | 103.3 | 7.46 | -.570 | 1.902 | 109.7 | 5.36E-06 | 1.29E-05 | 2.54E-03 | 6.10E-03 |
| | | | | | 110.7 | 4.85E-06 | 1.16E-05 | | |
| | | | | | 108.8 | 3.74E-06 | 8.98E-06 | | |
| 5000 | 104.2 | 7.18 | -.456 | 1.858 | 110.0 | 4.05E-06 | 9.72E-06 | 3.78E-03 | 9.07E-03 |
| | | | | | 112.0 | 3.66E-06 | 8.77E-06 | | |
| | | | | | 94.0 | 1.89E-06 | 4.54E-06 | | |
| 7000 | 102.0X | 8.16X | -.563X | 2.656X | 110.0 | 8.42E-07 | 2.02E-06 | 1.32E-03X | 3.17E-03X |
| | | | | | 108.0 | 5.95E-07 | 1.43E-06 | | |
| | | | | | 100.0 | 4.62E-07 | 1.11E-06 | | |
| 12800 | 95.77 | 1.887 | -.4727 | 2.8637 | 96.07 | 1.04E-087 | 2.49E-087 | 8.74E-067 | 2.10E-057 |
| | | | | | 94.07 | 7.73E-097 | 1.86E-087 | | |
| | | | | | 97.07 | 5.97E-097 | 1.43E-087 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202907

068

SAMPLING FROM 400M TO 12800M, NO TOWER SAMPLING. ONLY ZINC SULFIDE TRACER RELEASED THIS DATE.
TRACER APPEARS CONTAINED WITHIN SAMPLERS TO A DISTANCE OF 5000M, DISTRIBUTION SKEWED STRONGLY TO SOUTH.
TRUNCATED DISTRIBUTION ON 7000M ARC AND SIGNIFICANT DUST ON 12800M ARC MAKE THESE ARC DATA QUESTIONABLE.

TEST U69 JULY 16, 1968 0118 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.9M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 97.4 | 7.28 | .305 | 2.101 | 94.0 | 1.67E-05 | 8.18E-05 | 2.35E-03 | 1.15E-02 |
| | | | | | 102.0 | 1.42E-05 | 6.96E-05 | | |
| | | | | | 106.0 | 1.42E-05 | 6.94E-05 | | |
| 800 | 100.6 | 6.56 | -.242 | 2.193 | 105.0 | 1.88E-05 | 9.20E-05 | 5.05E-03 | 2.46E-02 |
| | | | | | 103.0 | 1.77E-05 | 8.68E-05 | | |
| | | | | | 108.8 | 1.73E-05 | 8.50E-05 | | |
| 1200 | 99.3 | 6.95 | .177 | 1.324 | 94.0 | 1.05E-05 | 5.16E-05 | 3.51E-03 | 1.72E-02 |
| | | | | | 92.0 | 8.98E-06 | 4.40E-05 | | |
| | | | | | 96.0 | 8.75E-06 | 4.29E-05 | | |
| 1600 | 101.4 | 6.13 | .074 | 1.835 | 96.6 | 6.85E-06 | 3.36E-05 | 3.17E-03 | 1.55E-02 |
| | | | | | 94.6 | 6.74E-06 | 3.30E-05 | | |
| | | | | | 109.5 | 6.51E-06 | 3.19E-05 | | |
| 2200 | 103.67 | 5.317 | -.2647 | 1.9527 | 98.0 | 3.86E-06 | 1.89E-05 | 1.24E-03? | 6.06E-03? |
| | | | | | 110.07 | 3.79E-06? | 1.86E-05? | | |
| | | | | | 108.0 | 1.73E-06 | 8.46E-06 | | |
| 3200 | 103.0 | 5.35 | .013 | 1.788 | 109.7 | 3.75E-06 | 1.84E-05 | 2.44E-03 | 1.20E-02 |
| | | | | | 108.8 | 2.97E-06 | 1.46E-05 | | |
| | | | | | 96.8 | 2.85E-06 | 1.40E-05 | | |
| 5000 | 103.6 | 3.92 | .363 | 2.242 | 100.0 | 1.17E-06 | 5.73E-06 | 7.34E-04 | 3.60E-03 |
| | | | | | 102.0 | 8.92E-07 | 4.37E-06 | | |
| | | | | | 106.0 | 7.87E-07 | 3.86E-06 | | |
| 7000 | 105.5X | 5.63X | 3.235X | 16.931X | 106.0 | 1.24E-06 | 6.07E-06 | 1.32E-03X | 6.44E-03X |
| | | | | | 104.0 | 1.04E-06 | 5.08E-06 | | |
| | | | | | 108.0 | 1.01E-06 | 4.95E-06 | | |
| 12800 | 126.37 | 10.167 | -.3217 | 3.7597 | 122.07 | 4.596E-08? | 2.25E-07? | 9.08E-05? | 4.45E-04? |
| | | | | | 125.07 | 3.15E-08? | 1.54E-07? | | |
| | | | | | 124.07 | 2.77E-08? | 1.36E-07? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U69 120200

1202989

SAMPLING 400M TO 12800M, NO TOWER SAMPLING. DISTRIBUTION TENDS TOWARD BIMODAL.
ALL ARCS EXCEPT 7000M EMBRACE CROSSWIND EXTENT OF BOTH TRACERS. THE SKEWING OF 7000M DATA TO THE SOUTH IS NOT READILY EXPLAINABLE.

TEST U70 JULY 19, 1968 0108 TO 0138 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 7.8M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 118.5 | 8.71 | -.743 | 2.537 | 122.0 | 2.00E-05 | 1.56E-04 | 2.12E-03 | 1.65E-02 |
| | | | | | 126.0 | 1.81E-05 | 1.42E-04 | | |
| | | | | | 118.0 | 8.07E-06 | 6.29E-05 | | |
| 800 | 118.6 | 9.33 | -.633 | 2.193 | 124.0 | 1.71E-05 | 1.34E-04 | 3.24E-03 | 2.53E-02 |
| | | | | | 125.8 | 1.59E-05 | 1.24E-04 | | |
| | | | | | 122.1 | 1.38E-05 | 1.08E-04 | | |
| 1200 | 118.0 | 7.73 | -.383 | 1.934 | 124.0 | 8.37E-06 | 6.53E-05 | 2.22E-03 | 1.73E-02 |
| | | | | | 126.0 | 7.30E-06 | 5.69E-05 | | |
| | | | | | 122.0 | 5.37E-06 | 4.19E-05 | | |
| 1600 | 113.4 | 7.27 | -.270 | 1.748 | 126.9 | 4.41E-06 | 3.44E-05 | 1.83E-03 | 1.43E-02 |
| | | | | | 123.1 | 4.20E-06 | 3.27E-05 | | |
| | | | | | 124.1 | 4.14E-06 | 3.23E-05 | | |
| 2200 | 118.6 | 6.55 | -.192 | 1.699 | 126.0 | 2.28E-06 | 1.78E-05 | 9.86E-04 | 7.69E-03 |
| | | | | | 110.0 | 1.84E-06 | 1.43E-05 | | |
| | | | | | 122.0 | 1.66E-06 | 1.30E-05 | | |
| 3200 | 117.6 | 5.28 | .257 | 1.741 | 114.6 | 3.44E-06 | 2.68E-05 | 1.78E-03 | 1.39E-02 |
| | | | | | 113.7 | 2.90E-06 | 2.26E-05 | | |
| | | | | | 112.7 | 2.75E-06 | 2.15E-05 | | |
| 5000 | 118.5 | 4.49 | .421 | 1.771 | 114.0 | 6.72E-07 | 5.24E-06 | 3.99E-04 | 3.11E-03 |
| | | | | | 116.0 | 4.26E-07 | 3.32E-06 | | |
| | | | | | 122.0 | 3.90E-07 | 3.04E-06 | | |
| 7000 | 120.2X | 6.69X | .528X | 8.565X | 118.0 | 1.04E-06 | 8.14E-06 | 8.85E-04X | 6.90E-03X |
| | | | | | 116.0 | 5.69E-07 | 4.44E-06 | | |
| | | | | | 120.0 | 5.11E-07 | 3.98E-06 | | |
| 12800 | 122.3 | 3.83 | -3.339 | 23.899 | 122.0 | 6.61E-07 | 5.15E-06 | 6.33E-04 | 4.93E-03 |
| | | | | | 124.0 | 4.41E-07 | 3.44E-06 | | |
| | | | | | 123.0 | 4.26E-07 | 3.32E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U70 JULY 19, 1968 0108 TO 0138 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 2M
SAMPLER HT 1.5M U= 4.8M/SEC AT 2M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 119.6 | 8.23 | -1.003 | 3.208 | 122.0 | 6.45E-05 | 3.09E-04 | 6.36E-03 | 3.05E-02 |
| | | | | | 126.0 | 5.73E-05 | 2.75E-04 | | |
| | | | | | 118.0 | 2.94E-05 | 1.41E-04 | | |
| 800 | 119.4 | 8.36 | -.924 | 2.643 | 124.0 | 3.06E-05 | 1.47E-04 | 4.99E-03 | 2.39E-02 |
| | | | | | 125.8 | 2.86E-05 | 1.37E-04 | | |
| | | | | | 122.1 | 2.23E-05 | 1.07E-04 | | |
| 1200 | 119.9 | 7.55 | -.845 | 2.543 | 126.0 | 8.70E-06 | 4.17E-05 | 1.85E-03 | 8.87E-03 |
| | | | | | 124.0 | 6.91E-06 | 3.32E-05 | | |
| | | | | | 122.0 | 5.57E-06 | 2.68E-05 | | |
| 1600 | 118.8 | 7.50 | -.441 | 1.847 | 126.0 | 4.74E-06 | 2.27E-05 | 1.43E-03 | 6.86E-03 |
| | | | | | 126.9 | 4.36E-06 | 2.09E-05 | | |
| | | | | | 124.1 | 3.49E-06 | 1.67E-05 | | |
| 2200 | 118.6 | 6.54 | -.219 | 1.775 | 126.0 | 1.49E-06 | 7.17E-06 | 7.37E-04 | 3.54E-03 |
| | | | | | 124.0 | 1.39E-06 | 6.67E-06 | | |
| | | | | | 122.0 | 1.15E-06 | 5.50E-06 | | |
| 3200 | 118.3 | 5.47 | -.001 | 1.655 | 114.6 | 1.77E-06 | 8.50E-06 | 1.11E-03 | 5.34E-03 |
| | | | | | 123.4 | 1.52E-06 | 7.31E-06 | | |
| | | | | | 113.7 | 1.45E-06 | 6.96E-06 | | |
| 5000 | 119.0 | 4.43 | .172 | 1.761 | 114.0 | 7.45E-07 | 3.58E-06 | 5.70E-04 | 2.73E-03 |
| | | | | | 122.0 | 6.00E-07 | 2.88E-06 | | |
| | | | | | 116.0 | 5.52E-07 | 2.65E-06 | | |
| 7000 | 120.2X | 6.21X | -.339X | 8.585X | 118.0 | 5.10E-07 | 2.45E-06 | 6.31E-04X | 3.03E-03X |
| | | | | | 116.0 | 4.16E-07 | 2.00E-06 | | |
| | | | | | 124.0 | 3.58E-07 | 1.72E-06 | | |
| 12800 | 122.0 | 3.63 | -1.136 | 7.921 | 122.0 | 5.00E-07 | 2.40E-06 | 6.62E-04 | 3.18E-03 |
| | | | | | 124.0 | 4.56E-07 | 2.19E-06 | | |
| | | | | | 125.0 | 3.48E-07 | 1.67E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



120291

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ZNS DISPERSED FOR 30 MIN; FLUORESCEIN DISPERSED ONLY LAST 15 MIN.
ARCS OUT TO 3200M EMBRACE CROSSWIND EXTENT OF TRACER. 5000M, 7000M AND 12800M ARCS TRUNCATED ON NORTH.

TEST U71 AUGUST 6, 1968 0043 TO 0113 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 3.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 80.6 | 12.58 | .288 | 1.930 | 74.0 | 1.14E-05 | 3.86E-05 | 1.83E-03 | 6.24E-03 |
| | | | | | 70.0 | 1.07E-05 | 3.63E-05 | | |
| | | | | | 98.0 | 8.61E-06 | 2.93E-05 | | |
| 800 | 81.7 | 12.49 | .127 | 1.533 | 73.0 | 1.98E-05 | 6.72E-05 | 5.39E-03 | 1.83E-02 |
| | | | | | 76.0 | 1.62E-05 | 5.51E-05 | | |
| | | | | | 97.1 | 1.60E-05 | 5.45E-05 | | |
| 1200 | 77.1 | 9.14 | .593 | 2.716 | 78.0 | 1.55E-05 | 5.27E-05 | 6.28E-03 | 2.14E-02 |
| | | | | | 76.0 | 1.47E-05 | 4.99E-05 | | |
| | | | | | 74.0 | 1.43E-05 | 4.85E-05 | | |
| 1600 | 83.4 | 10.45 | -.090 | 1.727 | 78.0 | 1.32E-05 | 4.50E-05 | 5.89E-03 | 2.00E-02 |
| | | | | | 76.0 | 1.19E-05 | 4.05E-05 | | |
| | | | | | 93.6 | 9.43E-06 | 3.21E-05 | | |
| 2200 | 82.4 | 9.90 | -.014 | 1.601 | 94.0 | 4.62E-06 | 1.57E-05 | 1.53E-03 | 5.21E-03 |
| | | | | | 70.0 | 2.47E-06 | 8.40E-06 | | |
| | | | | | 72.0 | 1.66E-06 | 5.63E-06 | | |
| 3200 | 85.5 | 7.89 | .342 | 2.227 | 80.8 | 7.78E-06 | 2.65E-05 | 7.07E-03 | 2.40E-02 |
| | | | | | 81.8 | 7.59E-06 | 2.58E-05 | | |
| | | | | | 82.8 | 7.12E-06 | 2.42E-05 | | |
| 5000 | 90.9X | 7.72X | .443X | 1.907X | 82.0X | 2.36E-06X | 8.04E-06X | 1.72E-03X | 5.83E-03X |
| | | | | | 86.0X | 1.30E-06X | 4.41E-06X | | |
| | | | | | 90.0X | 8.45E-07X | 2.87E-06X | | |
| 7000 | 94.7X | 8.98X | -.504X | 2.040X | 102.0X | 1.10E-06 | 3.73E-06 | 2.00E-03X | 6.80E-03X |
| | | | | | 104.0 | 8.98E-07 | 3.05E-06 | | |
| | | | | | 100.0 | 8.86E-07 | 3.01E-06 | | |
| 12800 | 93.8X | 2.60X | .942X | 3.233X | 94.0X | 4.07E-08X | 1.39E-07X | 2.13E-05X | 7.24E-05X |
| | | | | | 91.0X | 2.87E-08X | 9.75E-08X | | |
| | | | | | 99.0X | 6.33E-09X | 2.15E-08X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U71 120292

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF .56M
SAMPLER HT 1.5M U= 4.2M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 78.7 | 8.66 | .736 | 5.242 | 82.0 | 2.21E-06 | 9.26E-06 | 2.70E-04 | 1.14E-03 |
| | | | | | 86.0 | 2.07E-06 | 8.68E-06 | | |
| | | | | | 66.0 | 1.47E-06 | 6.17E-06 | | |
| 800 | 80.2 | 8.06 | 1.065 | 4.771 | 82.0 | 8.62E-06 | 3.62E-05 | 1.55E-03 | 6.51E-03 |
| | | | | | 79.0 | 5.97E-06 | 2.51E-05 | | |
| | | | | | 73.0 | 4.86E-06 | 2.04E-05 | | |
| 1200 | 81.6 | 7.34 | .630 | 3.763 | 84.0 | 7.89E-06 | 3.31E-05 | 2.24E-03 | 9.42E-03 |
| | | | | | 80.0 | 7.28E-06 | 3.06E-05 | | |
| | | | | | 82.0 | 6.54E-06 | 2.74E-05 | | |
| 1600 | 87.3 | 9.03 | .103 | 1.998 | 86.0 | 6.04E-06 | 2.54E-05 | 2.66E-03 | 1.12E-02 |
| | | | | | 78.0 | 5.80E-06 | 2.43E-05 | | |
| | | | | | 84.0 | 5.80E-06 | 2.43E-05 | | |
| 2200 | 86.3 | 7.59 | .432 | 3.370 | 84.0 | 2.31E-06 | 9.68E-06 | 1.13E-03 | 4.75E-03 |
| | | | | | 90.0 | 2.11E-06 | 8.88E-06 | | |
| | | | | | 82.0 | 1.58E-06 | 6.63E-06 | | |
| 3200 | 89.3 | 7.49 | .750 | 3.121 | 87.8 | 5.00E-06 | 2.10E-05 | 3.68E-03 | 1.55E-02 |
| | | | | | 82.8 | 4.24E-06 | 1.78E-05 | | |
| | | | | | 84.6 | 4.24E-06 | 1.78E-05 | | |
| 5000 | 91.8X | 7.11X | .811X | 2.961X | 90.0? | 1.11E-06? | 4.66E-06? | 1.16E-03X | 4.87E-03X |
| | | | | | 88.0? | 9.98E-07?? | 4.19E-06? | | |
| | | | | | 86.0? | 8.25E-07?? | 3.46E-06? | | |
| 7000 | 92.8X | 8.72X | .179X | 2.680X | 90.0 | 4.52E-07 | 1.90E-06 | 1.04E-03X | 4.35E-03X |
| | | | | | 92.0 | 3.99E-07 | 1.68E-06 | | |
| | | | | | 88.0 | 3.59E-07 | 1.51E-06 | | |
| 12800 | 93.6X | 2.80X | 1.641X | 6.331X | 91.0 | 6.72E-08X | 2.82E-07X | 5.50E-05X | 2.31E-04X |
| | | | | | 94.0X | 5.03E-08X | 2.11E-07X | | |
| | | | | | 92.0X | 3.55E-08X | 1.49E-07X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202993

SAMPLING 400M TO 7000M: NO TOWER SAMPLING. ZNS DISPERSAL FOR 30 MIN; FLUORESCEIN DISPERSED ONLY LAST 20 MIN.
DISTRIBUTIONS ARE BIMODAL OR MULTIMODAL.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 116.7 | 8.92 | -1.249 | 4.497 | 122.0 | 1.32E-05 | 5.79E-05 | 1.36E-03 | 5.99E-03 |
| | | | | | 118.0 | 1.02E-05 | 4.50E-05 | | |
| | | | | | 126.0 | 7.02E-06 | 3.09E-05 | | |
| 800 | 119.2 | 8.93 | -1.673 | 5.769 | 125.8 | 2.10E-05 | 9.26E-05 | 3.37E-03 | 1.48E-02 |
| | | | | | 124.0 | 1.61E-05 | 7.06E-05 | | |
| | | | | | 122.1 | 1.54E-05 | 6.76E-05 | | |
| 1200 | 117.6 | 10.21 | -1.310 | 4.025 | 126.0 | 7.60E-06 | 3.34E-05 | 1.75E-03 | 7.68E-03 |
| | | | | | 124.0 | 6.47E-06 | 2.84E-05 | | |
| | | | | | 128.0 | 3.11E-06 | 1.37E-05 | | |
| 1600 | 119.9 | 9.39 | -1.389 | 4.208 | 126.9 | 1.68E-05 | 7.41E-05 | 3.74E-03 | 1.65E-02 |
| | | | | | 126.0 | 1.46E-05 | 6.44E-05 | | |
| | | | | | 127.8 | 1.37E-05 | 6.05E-05 | | |
| 2200 | 122.6 | 7.16 | -1.684 | 5.330 | 126.0 | 8.49E-06 | 3.74E-05 | 2.19E-03 | 9.64E-03 |
| | | | | | 128.0 | 8.24E-06 | 3.62E-05 | | |
| | | | | | 124.0 | 2.74E-06 | 1.20E-05 | | |
| 3200 | 121.5 | 7.37 | -1.337 | 3.767 | 127.3 | 5.86E-06 | 2.58E-05 | 2.25E-03 | 9.90E-03 |
| | | | | | 126.3 | 5.27E-06 | 2.32E-05 | | |
| | | | | | 125.4 | 4.07E-06 | 1.79E-05 | | |
| 5000 | 123.1 | 5.26 | -1.313 | 4.072 | 126.0 | 1.13E-06 | 4.99E-06 | 6.04E-04 | 2.66E-03 |
| | | | | | 128.0 | 6.77E-07 | 2.98E-06 | | |
| | | | | | 120.0 | 3.82E-07 | 1.68E-06 | | |
| 7000 | 125.0 | 5.02 | -.475 | 2.266 | 126.0 | 8.62E-07 | 3.79E-06 | 8.77E-04 | 3.86E-03 |
| | | | | | 128.0 | 5.41E-07 | 2.38E-06 | | |
| | | | | | 130.0 | 4.07E-07 | 1.79E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U71 AUGUST 6, 1968 0058 TO 0113 PST
FLUORESCEIN RELEASE FROM ELEVATION OF .56M
SAMPLER HT 1.5M U= 4.2M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 78.7 | 8.66 | .736 | 5.242 | 82.0 | 2.21E-06 | 9.26E-06 | 2.70E-04 | 1.14E-03 |
| | | | | | 86.0 | 2.07E-06 | 8.68E-06 | | |
| | | | | | 66.0 | 1.47E-06 | 6.17E-06 | | |
| 800 | 80.2 | 8.06 | 1.065 | 4.771 | 82.0 | 8.62E-06 | 3.62E-05 | 1.55E-03 | 6.51E-03 |
| | | | | | 79.0 | 5.97E-06 | 2.51E-05 | | |
| | | | | | 73.0 | 4.86E-06 | 2.04E-05 | | |
| 1200 | 81.6 | 7.34 | .630 | 3.763 | 84.0 | 7.89E-06 | 3.31E-05 | 2.24E-03 | 9.42E-03 |
| | | | | | 80.0 | 7.28E-06 | 3.06E-05 | | |
| | | | | | 82.0 | 6.54E-06 | 2.74E-05 | | |
| 1600 | 87.3 | 9.03 | .103 | 1.998 | 86.0 | 6.04E-06 | 2.54E-05 | 2.66E-03 | 1.12E-02 |
| | | | | | 78.0 | 5.80E-06 | 2.43E-05 | | |
| | | | | | 84.0 | 5.80E-06 | 2.43E-05 | | |
| 2200 | 86.3 | 7.59 | .432 | 3.070 | 84.0 | 2.31E-06 | 9.68E-06 | 1.13E-03 | 4.75E-03 |
| | | | | | 90.0 | 2.11E-06 | 8.88E-06 | | |
| | | | | | 82.0 | 1.58E-06 | 6.63E-06 | | |
| 3200 | 89.3 | 7.49 | .750 | 3.121 | 87.8 | 5.00E-06 | 2.10E-05 | 3.68E-03 | 1.55E-02 |
| | | | | | 82.8 | 4.24E-06 | 1.78E-05 | | |
| | | | | | 84.6 | 4.24E-06 | 1.78E-05 | | |
| 5000 | 91.8X | 7.11X | .811X | 2.961X | 90.0? | 1.11E-06? | 4.66E-06? | 1.16E-03X | 4.87E-03X |
| | | | | | 88.0? | 9.98E-07? | 4.19E-06? | | |
| | | | | | 86.0? | 8.25E-07? | 3.46E-06? | | |
| 7000 | 92.8X | 8.72X | .179X | 2.080X | 90.0 | 4.52E-07 | 1.90E-06 | 1.04E-03X | 4.35E-03X |
| | | | | | 92.0 | 3.99E-07 | 1.68E-06 | | |
| | | | | | 88.0 | 3.59E-07 | 1.51E-06 | | |
| 12800 | 93.6X | 2.80X | 1.641X | 6.331X | 91.0 | 6.72E-08X | 2.82E-07X | 5.50E-05X | 2.31E-04X |
| | | | | | 94.0X | 5.03E-08X | 2.11E-07X | | |
| | | | | | 92.0X | 3.55E-08X | 1.49E-07X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202095

SAMPLING 400M TO 7000M; NO TOWER SAMPLING. ZNS DISPERSAL FOR 30 MIN; FLUORESCEIN DISPERSED ONLY LAST 20 MIN.
DISTRIBUTIONS ARE BIMODAL OR MULTIMODAL.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U72 AUGUST 7, 1968 0047 TO 0117 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 116.7 | 8.92 | -1.249 | 4.497 | 122.0 | 1.32E-05 | 5.79E-05 | 1.36E-03 | 5.99E-03 |
| | | | | | 118.0 | 1.02E-05 | 4.50E-05 | | |
| | | | | | 126.0 | 7.02E-06 | 3.09E-05 | | |
| 800 | 119.2 | 8.93 | -1.673 | 5.769 | 125.8 | 2.10E-05 | 9.26E-05 | 3.37E-03 | 1.48E-02 |
| | | | | | 124.0 | 1.61E-05 | 7.06E-05 | | |
| | | | | | 122.1 | 1.54E-05 | 6.76E-05 | | |
| 1200 | 117.6 | 10.21 | -1.310 | 4.025 | 126.0 | 7.60E-06 | 3.34E-05 | 1.75E-03 | 7.68E-03 |
| | | | | | 124.0 | 6.47E-06 | 2.84E-05 | | |
| | | | | | 128.0 | 3.11E-06 | 1.37E-05 | | |
| 1600 | 119.9 | 9.39 | -1.389 | 4.208 | 126.9 | 1.68E-05 | 7.41E-05 | 3.74E-03 | 1.65E-02 |
| | | | | | 126.0 | 1.46E-05 | 6.44E-05 | | |
| | | | | | 127.8 | 1.37E-05 | 6.05E-05 | | |
| 2200 | 122.6 | 7.16 | -1.684 | 5.330 | 126.0 | 8.49E-06 | 3.74E-05 | 2.19E-03 | 9.64E-03 |
| | | | | | 128.0 | 8.24E-06 | 3.62E-05 | | |
| | | | | | 124.0 | 2.74E-06 | 1.20E-05 | | |
| 3200 | 121.5 | 7.37 | -1.337 | 3.767 | 127.3 | 5.66E-06 | 2.58E-05 | 2.25E-03 | 9.90E-03 |
| | | | | | 126.3 | 5.27E-06 | 2.32E-05 | | |
| | | | | | 125.4 | 4.07E-06 | 1.79E-05 | | |
| 5000 | 123.1 | 5.26 | -1.313 | 4.072 | 126.0 | 1.13E-06 | 4.99E-06 | 6.04E-04 | 2.66E-03 |
| | | | | | 128.0 | 6.77E-07 | 2.98E-06 | | |
| | | | | | 120.0 | 3.62E-07 | 1.66E-06 | | |
| 7000 | 125.0 | 5.92 | -.475 | 2.266 | 126.0 | 8.62E-07 | 3.79E-06 | 8.77E-04 | 3.86E-03 |
| | | | | | 128.0 | 5.41E-07 | 2.38E-06 | | |
| | | | | | 130.0 | 4.07E-07 | 1.79E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U72 1202996

TEST U72 AUGUST 7, 1968 0057 TO 0117 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 6.0M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 113.9 | 2.36 | -5.994 | 67.399 | 114.0 | 1.36E-06 | 8.15E-06 | 3.93E-05 | 2.36E-04 |
| | | | | | 122.0 | 1.91E-08 | 1.15E-07 | | |
| | | | | | 90.0 | 7.66E-09 | 4.60E-08 | | |
| 800 | 121.7 | 4.72 | -.859 | 5.222 | 122.1 | 4.92E-06 | 2.95E-05 | 6.21E-04 | 3.73E-03 |
| | | | | | 124.0 | 4.40E-06 | 2.64E-05 | | |
| | | | | | 118.3 | 2.20E-06 | 1.32E-05 | | |
| 1200 | 122.1 | 6.26 | -1.721 | 7.896 | 124.0 | 2.23E-06 | 1.34E-05 | 5.87E-04 | 3.52E-03 |
| | | | | | 128.0 | 2.06E-06 | 1.23E-05 | | |
| | | | | | 126.0 | 1.94E-06 | 1.16E-05 | | |
| 1600 | 122.2 | 7.49 | -1.544 | 5.098 | 128.8 | 4.97E-06 | 2.98E-05 | 1.24E-03 | 7.43E-03 |
| | | | | | 122.1 | 3.94E-06 | 2.36E-05 | | |
| | | | | | 121.2 | 3.59E-06 | 2.15E-05 | | |
| 2200 | 123.8 | 5.88 | -1.867 | 7.206 | 126.0 | 1.81E-06 | 1.08E-05 | 6.50E-04 | 3.95E-03 |
| | | | | | 128.0 | 1.67E-06 | 1.00E-05 | | |
| | | | | | 122.0 | 1.41E-06 | 8.46E-06 | | |
| 3200 | 125.0 | 4.48 | -2.044 | 7,520 | 127.3 | 4.89E-06 | 2.94E-05 | 1.28E-03 | 7.70E-03 |
| | | | | | 126.3 | 3.64E-06 | 2.19E-05 | | |
| | | | | | 128.3 | 2.71E-06 | 1.62E-05 | | |
| 5000 | 126.2 | 4.11 | -1.854 | 7.014 | 128.0 | 8.85E-07 | 5.31E-06 | 5.68E-04 | 3.41E-03 |
| | | | | | 130.0 | 8.24E-07 | 4.94E-06 | | |
| | | | | | 126.0 | 7.63E-07 | 4.58E-06 | | |
| 7000 | 127.5 | 3.64 | -1.080 | 4.641 | 126.0 | 1.01E-06 | 6.04E-06 | 7.26E-04 | 4.36E-03 |
| | | | | | 128.0 | 5.58E-07 | 3.35E-06 | | |
| | | | | | 130.0 | 5.03E-07 | 3.02E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1202091

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION.
ZNS DISPERSAL FOR 30 CONTINUOUS MIN. FLUORESCEIN ON FIRST 5 MIN, OFF 10 MIN, THEN ON 15 MIN. (FLUORESCEIN ON AT 0140PST, OFF AT 0145PST, ON AT 0155PST AND OFF AGAIN AT 0210PST.) FLUORESCEIN DISPERSAL DEVICE PROBLEMS.

TEST U73 AUGUST 8, 1968 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.5M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 122.2 | 6.15 | .117 | 2.069 | 118.0 | 1.25E-05 | 6.88E-05 | 1.60E-03 | 8.82E-03 |
| | | | | | 126.0 | 1.16E-05 | 6.36E-05 | | |
| | | | | | 122.0 | 1.06E-05 | 5.81E-05 | | |
| 800 | 122.3 | 5.06 | -.149 | 2.437 | 122.1 | 1.57E-05 | 8.65E-05 | 2.99E-03 | 1.64E-02 |
| | | | | | 124.0 | 1.44E-05 | 7.94E-05 | | |
| | | | | | 125.8 | 1.42E-05 | 7.83E-05 | | |
| 1200 | 121.6 | 3.94 | -.049 | 2.577 | 120.0 | 4.08E-06 | 2.24E-05 | 9.01E-04 | 4.95E-03 |
| | | | | | 126.0 | 3.86E-06 | 2.12E-05 | | |
| | | | | | 118.0 | 3.55E-06 | 1.95E-05 | | |
| 1600 | 122.1 | 3.56 | -.194 | 2.523 | 125.0 | 1.41E-05 | 7.73E-05 | 2.90E-03 | 1.60E-02 |
| | | | | | 121.2 | 1.08E-05 | 5.96E-05 | | |
| | | | | | 122.1 | 1.00E-05 | 5.51E-05 | | |
| 2200 | 121.7? | 2.91? | .202? | 3.097? | 122.0 | 2.34E-06 | 1.29E-05 | 6.13E-04? | 3.37E-03? |
| | | | | | 120.0? | 2.31E-06? | 1.27E-05? | | |
| | | | | | 126.0 | 9.52E-07 | 5.24E-06 | | |
| 3200 | 121.4 | 2.50 | -.097 | 2.876 | 120.5 | 4.46E-06 | 2.45E-05 | 1.56E-03 | 8.58E-03 |
| | | | | | 121.5 | 4.08E-06 | 2.24E-05 | | |
| | | | | | 122.4 | 3.95E-06 | 2.17E-05 | | |
| 5000 | 121.5 | 2.04 | -.169 | 3.822 | 122.0 | 8.78E-07 | 4.83E-06 | 2.54E-04 | 1.40E-03 |
| | | | | | 120.0 | 1.99E-07 | 1.09E-06 | | |
| | | | | | 118.0 | 1.94E-07 | 1.07E-06 | | |
| 7000 | 121.1 | 1.47 | .161 | 4.064 | 122.0 | 1.66E-06 | 9.13E-06 | 9.12E-04 | 5.02E-03 |
| | | | | | 120.0 | 1.59E-06 | 8.76E-06 | | |
| | | | | | 124.0 | 1.99E-07 | 1.09E-06 | | |
| 12800 | 118.7 | 2.94 | .748 | 3.713 | 117.0 | 3.70E-07 | 2.03E-06 | 2.24E-04 | 1.23E-03 |
| | | | | | 118.0 | 1.09E-07 | 5.98E-07 | | |
| | | | | | 116.0 | 7.59E-08 | 4.17E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPL DATA.

TEST U73 AUGUST 8, 1968 1407 TO 2107 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 6.5M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 125.7 | 1.42 | -6.597 | 57.936 | 126.0 | 2.28E-06 | 1.48E-05 | 6.71E-05 | 4.36E-04 |
| | | | | | 122.0 | 9.42E-08 | 6.13E-07 | | |
| | | | | | 118.0 | 2.35E-08 | 1.53E-07 | | |
| 800 | 121.5 | 4.47 | -.010 | 2.272 | 122.1 | 4.92E-06 | 3.20E-05 | 6.89E-04 | 4.48E-03 |
| | | | | | 124.0 | 3.87E-06 | 2.52E-05 | | |
| | | | | | 120.2 | 3.35E-06 | 2.18E-05 | | |
| 1200 | 122.5 | 3.98 | -.040 | 2.547 | 122.0 | 3.56E-06 | 2.31E-05 | 8.11E-04 | 5.27E-03 |
| | | | | | 120.0 | 3.39E-06 | 2.20E-05 | | |
| | | | | | 124.0 | 3.14E-06 | 2.04E-05 | | |
| 1600 | 122.6 | 3.67 | -.170 | 2.776 | 122.1 | 8.52E-06 | 5.54E-05 | 1.71E-03 | 1.11E-02 |
| | | | | | 124.1 | 6.91E-06 | 4.49E-05 | | |
| | | | | | 123.1 | 6.22E-06 | 4.04E-05 | | |
| 2200 | 122.4 | 3.05 | -.198 | 2.867 | 122.0 | 3.96E-06 | 2.58E-05 | 1.03E-03 | 6.67E-03 |
| | | | | | 124.0 | 2.91E-06 | 1.89E-05 | | |
| | | | | | 120.0 | 1.94E-06 | 1.26E-05 | | |
| 3200 | 122.2 | 2.77 | -.400 | 2.491 | 124.4 | 4.16E-06 | 2.71E-05 | 1.45E-03 | 9.45E-03 |
| | | | | | 121.5 | 3.44E-06 | 2.23E-05 | | |
| | | | | | 122.4 | 3.12E-06 | 2.03E-05 | | |
| 5000 | 122.4 | 2.64 | .035 | 2.372 | 122.0 | 1.13E-06 | 7.34E-06 | 7.36E-04 | 4.79E-03 |
| | | | | | 120.0 | 1.01E-06 | 6.55E-06 | | |
| | | | | | 124.0 | 9.15E-07 | 5.95E-06 | | |
| 7000 | 122.1 | 1.56 | .549 | 8.501 | 122.0 | 1.40E-06 | 9.13E-06 | 6.70E-04 | 4.36E-03 |
| | | | | | 124.0 | 6.68E-07 | 4.34E-06 | | |
| | | | | | 120.0 | 5.49E-07 | 3.57E-06 | | |
| 12800 | 117.9 | 2.65 | 1.347 | 7.216 | 117.0 | 2.41E-07 | 1.56E-06 | 1.78E-04 | 1.16E-03 |
| | | | | | 118.0 | 1.28E-07 | 8.31E-07 | | |
| | | | | | 119.0 | 1.06E-07 | 6.92E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1202099

SAMPLING 400M TO 7000M. NO TOWER SAMPLING.
TRACER SKEWED TO NORTH.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.6M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 111.6 | 4.18 | -.230 | 3.083 | 110.0 | 2.17E-06 | 9.96E-06 | 1.56E-04 | 7.18E-04 |
| | | | | | 114.0 | 1.49E-06 | 6.85E-06 | | |
| | | | | | 118.0 | 9.38E-07 | 4.31E-06 | | |
| 800 | 110.9 | 4.50 | -.487 | 2.513 | 114.5 | 2.17E-05 | 9.97E-05 | 2.50E-03 | 1.15E-02 |
| | | | | | 110.7 | 1.22E-05 | 5.63E-05 | | |
| | | | | | 108.8 | 1.18E-05 | 5.43E-05 | | |
| 1200 | 109.7 | 4.18 | -.220 | 2.339 | 114.0 | 8.76E-06 | 4.03E-05 | 2.17E-03 | 9.99E-03 |
| | | | | | 108.0 | 8.47E-06 | 3.89E-05 | | |
| | | | | | 112.0 | 7.47E-06 | 3.44E-05 | | |
| 1600 | 110.9 | 3.54 | -.536 | 2.894 | 113.4 | 1.79E-05 | 8.25E-05 | 3.40E-03 | 1.56E-02 |
| | | | | | 114.4 | 1.40E-05 | 6.44E-05 | | |
| | | | | | 110.4 | 1.13E-05 | 5.22E-05 | | |
| 2200 | 109.7 | 3.31 | -.299 | 4.280 | 108.0 | 3.64E-06 | 1.68E-05 | 1.10E-03 | 5.04E-03 |
| | | | | | 110.0? | 3.47E-06? | 1.60E-05? | | |
| | | | | | 112.0 | 2.94E-06 | 1.35E-05 | | |
| 3200 | 109.8 | 5.67 | -.825 | 3.153 | 115.6 | 2.76E-06 | 1.27E-05 | 1.42E-03 | 6.53E-03 |
| | | | | | 114.6 | 2.27E-06 | 1.04E-05 | | |
| | | | | | 108.8? | 2.08E-06? | 9.57E-06? | | |
| 5000 | 108.3 | 5.38 | -.749 | 3.749 | 108.0 | 1.87E-06 | 8.59E-06 | 1.12E-03 | 5.14E-03 |
| | | | | | 114.0 | 1.21E-06 | 5.57E-06 | | |
| | | | | | 106.0 | 9.75E-07 | 4.49E-06 | | |
| 7000 | 108.8 | 4.47 | -.578 | 4.667 | 110.0 | 7.01E-07 | 3.23E-06 | 3.05E-04 | 1.40E-03 |
| | | | | | 108.0 | 1.14E-07 | 5.25E-07 | | |
| | | | | | 106.0 | 9.25E-08 | 4.25E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U74 AUGUST 29, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 6.2M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 98.6 | 11.16 | .527 | 1.806 | 90.0 | 1.36E-09 | 8.43E-09 | 1.95E-07 | 1.21E-06 |
| | | | | | 86.0 | 1.32E-09 | 8.20E-09 | | |
| | | | | | 94.0 | 1.29E-09 | 7.97E-09 | | |
| 800 | 116.4 | 1.75 | .740 | 3.496 | 116.4 | 1.14E-05 | 7.09E-05 | 8.32E-04 | 5.16E-03 |
| | | | | | 114.5 | 1.03E-05 | 6.40E-05 | | |
| | | | | | 118.3 | 6.64E-06 | 4.11E-05 | | |
| 1200 | 116.1 | 1.76 | -.040 | 3.000 | 116.0 | 5.38E-06 | 3.34E-05 | 6.14E-04 | 3.81E-03 |
| | | | | | 118.0 | 4.55E-06 | 2.82E-05 | | |
| | | | | | 114.0 | 4.16E-06 | 2.58E-05 | | |
| 1600 | 116.6 | 1.64 | -.161 | 3.539 | 116.3 | 1.86E-05 | 1.16E-04 | 1.72E-03 | 1.06E-02 |
| | | | | | 117.3 | 1.12E-05 | 6.94E-05 | | |
| | | | | | 115.3 | 1.02E-05 | 6.33E-05 | | |
| 2200 | 116.9 | 1.64 | .240 | 4.300 | 116.0 | 4.23E-06 | 2.63E-05 | 6.79E-04 | 4.21E-03 |
| | | | | | 118.0 | 3.02E-06 | 1.87E-05 | | |
| | | | | | 120.0 | 8.70E-07 | 5.40E-06 | | |
| 3200 | 115.8 | 2.78 | -1.062 | 4.843 | 117.6 | 3.08E-06 | 1.91E-05 | 8.31E-04 | 5.15E-03 |
| | | | | | 115.6 | 2.42E-06 | 1.50E-05 | | |
| | | | | | 118.6 | 1.91E-06 | 1.18E-05 | | |
| 5000 | 115.8 | 3.25 | -.684 | 4.495 | 118.0 | 1.16E-06 | 7.19E-06 | 8.73E-04 | 5.41E-03 |
| | | | | | 116.0 | 1.13E-06 | 6.99E-06 | | |
| | | | | | 114.0 | 1.10E-06 | 6.79E-06 | | |
| 7000 | 115.3 | 2.52 | -.455 | 3.899 | 116.0 | 5.81E-07 | 3.60E-06 | 4.47E-04 | 2.77E-03 |
| | | | | | 114.0 | 5.36E-07 | 3.32E-06 | | |
| | | | | | 118.0 | 3.13E-07 | 1.94E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1203001

SAMPLING 400M TO 12800M, BUT NO TRACER OBSERVED AT 12800M. NO TOWER SAMPLING.
5000M AND 7000M ARCS TRUNCATED ON NORTH. WIND SPEED MEASURED AT 12800M ARC AVERAGED ABOUT 0.2 M/SEC AT 1.5M ELEVATION. RELATIVELY LARGE DIRECTION SHEAR WITH ELEVATION (ABOUT 20 DEGREES FROM 15M TO 61M).

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 2.9M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 77.1 | 5.15 | 1.106 | 3.052 | 74.0 | 4.76E-06 | 1.38E-05 | 2.21E-04 | 6.41E-04 |
| | | | | | 86.0 | 1.10E-06 | 3.18E-06 | | |
| | | | | | 78.0 | 1.06E-06 | 3.07E-06 | | |
| 800 | 80.5? | 4.94? | -.397? | 3.434? | 82.0? | 3.23E-06? | 9.37E-06? | 4.52E-04? | 1.31E-03? |
| | | | | | 79.0? | 2.58E-06? | 7.49E-06? | | |
| | | | | | 85.0 | 1.61E-06 | 4.68E-06 | | |
| 1200 | 78.7 | 5.21 | .230 | 2.565 | 76.0 | 3.96E-06 | 1.15E-05 | 9.02E-04 | 2.62E-03 |
| | | | | | 80.0 | 3.39E-06 | 9.84E-06 | | |
| | | | | | 82.0 | 2.29E-06 | 6.65E-06 | | |
| 1600 | 79.2 | 6.92 | .244 | 1.851 | 72.0 | 1.50E-06 | 4.36E-06 | 3.92E-04 | 1.14E-03 |
| | | | | | 80.0 | 1.08E-06 | 3.13E-06 | | |
| | | | | | 88.0 | 8.68E-07 | 2.52E-06 | | |
| 2200 | 79.1 | 4.97 | -.589 | 2.836 | 82.0 | 2.38E-06 | 6.89E-06 | 3.70E-04 | 1.07E-03 |
| | | | | | 72.0 | 7.16E-07 | 2.08E-06 | | |
| | | | | | 74.0 | 5.38E-07 | 1.56E-06 | | |
| 3200 | 78.5 | 3.28 | -.430 | 4.601 | 78.6 | 2.93E-06 | 8.46E-06 | 8.05E-04 | 2.33E-03 |
| | | | | | 80.8 | 2.72E-06 | 7.89E-06 | | |
| | | | | | 79.8 | 1.75E-06 | 5.08E-06 | | |
| 5000 | 83.6X | .91X | -.438X | 4.781X | 84.0? | 7.37E-07? | 2.14E-06? | 1.54E-04X | 4.48E-04X |
| | | | | | 82.0? | 1.95E-07? | 5.67E-07? | | |
| | | | | | 86.0? | 2.16E-08? | 6.25E-08? | | |
| 7000 | 80.3X | 2.45X | .063X | 2.455X | 80.0? | 9.01E-08? | 2.61E-07? | 3.72E-05X | 1.08E-04X |
| | | | | | 84.0? | 3.79E-08? | 1.10E-07? | | |
| | | | | | 76.0? | 2.08E-06? | 6.03E-08? | | |
| 12800 | 0.0X | 0.00X | 0.000X | 0.000X | 0.0X | 0. X | 0. X | 0. X | 0. X |
| | | | | | 0.0X | 0. X | 0. X | | |
| | | | | | 0.0X | 0. X | 0. X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U75 AUGUST 30, 1968 0031 TO 0101 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 2.5M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 92.1 | 3.20 | -.770 | 8.054 | 94.0 | 1.93E-06 | 4.84E-06 | 8.21E-05 | 2.05E-04 |
| | | | | | 90.0 | 5.48E-07 | 1.37E-06 | | |
| | | | | | 86.0 | 4.35E-07 | 1.09E-06 | | |
| 800 | 95.8 | 4.82 | -.234 | 2.251 | 91.0 | 3.71E-06 | 9.27E-06 | 4.26E-04 | 1.07E-03 |
| | | | | | 101.1 | 2.00E-06 | 5.01E-06 | | |
| | | | | | 99.1 | 1.55E-06 | 3.87E-06 | | |
| 1200 | 93.5 | 4.18 | 1.140 | 5.110 | 92.0 | 4.15E-06 | 1.04E-05 | 6.81E-04 | 1.70E-03 |
| | | | | | 94.0 | 3.76E-06 | 9.41E-06 | | |
| | | | | | 90.0 | 2.72E-06 | 6.81E-06 | | |
| 1600 | 95.2 | 3.93 | .800 | 4.161 | 94.6 | 3.70E-06 | 9.24E-06 | 7.27E-04 | 1.82E-03 |
| | | | | | 94.0 | 3.57E-06 | 8.92E-06 | | |
| | | | | | 93.6 | 3.06E-06 | 7.66E-06 | | |
| 2200 | 93.6 | 4.61 | .865 | 4.088 | 94.0 | 2.92E-06 | 7.30E-06 | 8.65E-04 | 2.16E-03 |
| | | | | | 92.0 | 2.70E-06 | 6.74E-06 | | |
| | | | | | 90.0 | 1.58E-06 | 3.96E-06 | | |
| 3200 | 93.0 | 5.05 | .811 | 3.687 | 91.8 | 2.18E-06 | 5.46E-06 | 1.13E-03 | 2.83E-03 |
| | | | | | 92.8 | 2.07E-06 | 5.17E-06 | | |
| | | | | | 90.8 | 1.99E-06 | 4.98E-06 | | |
| 5000 | 90.9X | 4.39X | .150X | 2.919X | 92.0 | 7.23E-07 | 1.81E-06 | 4.92E-04X | 1.23E-03X |
| | | | | | 90.0 | 5.36E-07 | 1.34E-06 | | |
| | | | | | 88.0 | 3.43E-07 | 8.56E-07 | | |
| 7000 | 88.5X | 4.60X | -.747X | 3.577X | 90.0 | 3.85E-07 | 9.62E-07 | 2.85E-04X | 7.13E-04X |
| | | | | | 88.0 | 1.98E-07 | 4.95E-07 | | |
| | | | | | 92.0 | 1.68E-07 | 4.19E-07 | | |
| 12000 | 0.0 | 0.00 | 0.000 | 0.000 | | | | 0. | 0. |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1203003

SAMPLING 400M TO 7000M., NO TOWER SAMPLING.

5000M AND 7000M ARCS TRUNCATED ON NORTH.

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 6.5M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 81.5 | 6.53 | -.164 | 1.821 | 86.0 | 9.35E-06 | 6.08E-05 | 1.08E-03 | 7.03E-03 |
| | | | | | 74.0 | 8.77E-06 | 5.70E-05 | | |
| | | | | | 90.0 | 6.82E-06 | 4.43E-05 | | |
| 800 | 77.8 | 6.64 | .459 | 1.757 | 73.0 | 1.71E-05 | 1.11E-04 | 2.14E-03 | 1.39E-02 |
| | | | | | 70.0 | 7.52E-06 | 4.89E-05 | | |
| | | | | | 65.0 | 7.29E-06 | 4.74E-05 | | |
| 1200 | 76.7 | 6.52 | .649 | 1.953 | 72.0 | 1.20E-05 | 7.82E-05 | 2.00E-03 | 1.30E-02 |
| | | | | | 74.0 | 7.49E-06 | 4.87E-05 | | |
| | | | | | 70.0 | 7.42E-06 | 4.82E-05 | | |
| 1600 | 75.6 | 5.92 | .901 | 2.466 | 72.0 | 1.17E-05 | 7.64E-05 | 2.28E-03 | 1.48E-02 |
| | | | | | 70.0 | 7.76E-06 | 5.04E-05 | | |
| | | | | | 74.0 | 5.86E-06 | 3.81E-05 | | |
| 2200 | 73.2 | 4.22 | 1.589 | 4.973 | 72.0 | 5.13E-06 | 3.34E-05 | 1.08E-03 | 7.01E-03 |
| | | | | | 70.0 | 4.17E-06 | 2.71E-05 | | |
| | | | | | 76.0 | 1.19E-06 | 7.76E-06 | | |
| 3200 | 75.0 | 3.77 | .780 | 3.534 | 73.7 | 4.42E-06 | 2.87E-05 | 1.71E-03 | 1.11E-02 |
| | | | | | 72.7 | 3.67E-06 | 2.38E-05 | | |
| | | | | | 74.7 | 3.28E-06 | 2.13E-05 | | |
| 5000 | 83.3X | 3.06X | 3.641X | 17.101X | 82.0X | 1.34E-07X | 8.69E-07X | 3.05E-05X | 1.98E-04X |
| | | | | | 84.0X | 3.94E-08X | 2.56E-07X | | |
| | | | | | 90.0X | 4.43E-09X | 2.88E-08X | | |
| 7000 | 80.2X | 3.07X | .795X | 4.118X | 80.0X | 1.61E-06X | 1.05E-05X | 1.24E-03X | 8.05E-03X |
| | | | | | 82.0X | 1.38E-06X | 9.00E-06X | | |
| | | | | | 78.0X | 9.31E-07X | 6.05E-06X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U76 1203004

TEST U76 SEPTEMBER 16, 1968 0206 TO 0236 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 7.1M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 87.4? | 6.82? | 2.928? | 12.197? | 86.0? | 2.84E-07? | 2.02E-06? | 9.66E-06? | 6.86E-05? |
| | | | | | 82.0? | 2.58E-08? | 1.83E-07? | | |
| | | | | | 110.0? | 1.42E-08? | 1.01E-07? | | |
| 800 | 82.5 | 6.18 | -.379 | 1.675 | 88.0 | 3.65E-06 | 2.59E-05 | 4.60E-04 | 3.27E-03 |
| | | | | | 76.0 | 2.47E-06 | 1.76E-05 | | |
| | | | | | 85.0 | 1.95E-06 | 1.38E-05 | | |
| 1200 | 81.6? | 5.93? | -.239? | 1.703? | 86.0? | 4.98E-06? | 3.53E-05? | 1.01E-03? | 7.20E-03? |
| | | | | | 80.0? | 3.53E-06? | 2.51E-05? | | |
| | | | | | 74.0? | 2.65E-06? | 1.88E-05? | | |
| 1600 | 80.6 | 5.56 | .060 | 1.657 | 76.0 | 4.21E-06 | 2.99E-05 | 1.21E-03 | 8.60E-03 |
| | | | | | 66.0 | 3.32E-06 | 2.36E-05 | | |
| | | | | | 88.0 | 2.63E-06 | 1.87E-05 | | |
| 2200 | 78.2 | 4.61 | .429 | 2.131 | 76.0 | 2.29E-06 | 1.63E-05 | 8.19E-04 | 5.82E-03 |
| | | | | | 78.0 | 1.80E-06 | 1.28E-05 | | |
| | | | | | 74.0 | 1.59E-06 | 1.13E-05 | | |
| 3200 | 78.2 | 3.83 | .464 | 2.298 | 76.8 | 2.75E-06 | 1.95E-05 | 1.33E-03 | 9.46E-03 |
| | | | | | 75.7 | 2.50E-06 | 1.77E-05 | | |
| | | | | | 74.7 | 2.42E-06 | 1.72E-05 | | |
| 5000 | 82.2X | .63X | 3.355X | 16.778X | 82.0? | 5.86E-07? | 4.16E-06? | 1.05E-04X | 7.43E-04X |
| | | | | | 84.0? | 5.91E-08? | 4.20E-07? | | |
| | | | | | 86.0? | 2.02E-09? | 1.44E-08? | | |
| 7000 | 82.8 | 2.74 | .510 | 3.436 | 82.0 | 1.12E-06 | 7.96E-06 | 7.71E-04 | 5.47E-03 |
| | | | | | 84.0 | 7.57E-07 | 5.37E-06 | | |
| | | | | | 80.0 | 6.35E-07 | 4.51E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. EXTREME SHIFT IN PLUME CENTERLINE LOCATION STARTING ABOUT 1600M. THE PLUME CENTERLINE SHIFT CAUSED TRUNCATION OR "MISSED PLUME" ON 1200, 3200, 5000, 7000 AND 12800M ARCS. FLUORESCEIN WAS NOT ASSAYED FAR ENOUGH NORTH ON THE 1600M ARC TO BE SURE OF TRUNCATION.

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 3.6M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 110.5 | 4.84 | .314 | 5.722 | 110.0 | 9.11E-06 | 3.28E-05 | 6.87E-04 | 2.47E-03 |
| | | | | | 106.0 | 6.48E-06 | 2.33E-05 | | |
| | | | | | 114.0 | 4.40E-06 | 1.58E-05 | | |
| 800 | 112.9 | 5.48 | -.106 | 1.797 | 108.8 | 1.44E-05 | 5.18E-05 | 2.82E-03 | 1.01E-02 |
| | | | | | 118.3 | 1.28E-05 | 4.62E-05 | | |
| | | | | | 116.4 | 1.26E-05 | 4.52E-05 | | |
| 1200 | 113.4? | 5.26? | -2.276? | 24.793? | 118.0 | 1.25E-05 | 4.52E-05 | 2.45E-03? | 8.84E-03? |
| | | | | | 110.0 | 8.71E-06 | 3.14E-05 | | |
| | | | | | 116.0 | 7.68E-06 | 2.76E-05 | | |
| 1600 | 113.9 | 3.83 | -.797 | 4.645 | 117.3 | 1.69E-05 | 6.08E-05 | 3.90E-03 | 1.40E-02 |
| | | | | | 116.3 | 1.51E-05 | 5.44E-05 | | |
| | | | | | 115.3 | 1.41E-05 | 5.07E-05 | | |
| 3200 | 102.0X | 12.56X | -.639X | 2.453X | 114.6 | 1.98E-06 | 7.14E-06 | 1.32E-03X | 4.75E-03X |
| | | | | | 112.7 | 1.82E-06 | 6.56E-06 | | |
| | | | | | 113.7 | 1.53E-06 | 5.52E-06 | | |
| 5000 | 89.3X | 7.26X | 1.913X | 6.796X | 86.0 | 1.70E-06 | 6.11E-06 | 6.55E-04X | 2.36E-03X |
| | | | | | 84.0? | 3.97E-07? | 1.43E-06? | | |
| | | | | | 82.0? | 3.58E-07? | 1.29E-06? | | |
| 7000 | 82.3X | 5.39X | 1.683X | 5.582X | 80.0 | 9.40E-07 | 3.38E-06 | 7.63E-04X | 2.75E-03X |
| | | | | | 82.0 | 7.58E-07 | 2.73E-06 | | |
| | | | | | 78.0 | 7.06E-07 | 2.54E-06 | | |
| 12800 | 100.3X | 2.55X | -3.365X | 12.325X | 101.0X | 8.35E-09X | 3.01E-08X | 2.15E-06X | 7.73E-06X |
| | | | | | 91.0X | 6.31E-10X | 2.27E-09X | | |
| | | | | | 0.0X | 0. X | 0. X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U77 SEPTEMBER 17, 1968 0050 TO 0120 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 3.7M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 112.6 | 4.38 | -.590 | 2.901 | 114.0 | 1.40E-06 | 5.16E-06 | 9.21E-05 | 3.41E-04 |
| | | | | | 118.0 | 7.72E-07 | 2.86E-06 | | |
| | | | | | 106.0 | 7.47E-07 | 2.76E-06 | | |
| 800 | 114.7 | 4.78 | -.341 | 1.859 | 118.3 | 6.33E-06 | 2.34E-05 | 7.30E-04 | 2.70E-03 |
| | | | | | 120.2 | 4.71E-06 | 1.74E-05 | | |
| | | | | | 108.8 | 3.30E-06 | 1.22E-05 | | |
| 1200 | 113.4X | 5.16X | -4.156X | 50.310X | 110.0 | 6.02E-06 | 2.23E-05 | 1.09E-03X | 4.02E-03X |
| | | | | | 118.0 | 5.99E-06 | 2.22E-05 | | |
| | | | | | 112.0 | 3.75E-06 | 1.39E-05 | | |
| 1600 | 114.9? | 3.31? | -.002? | 2.377? | 112.4 | 8.17E-06 | 3.02E-05 | 1.69E-03? | 6.24E-03? |
| | | | | | 118.2 | 7.60E-06 | 2.81E-05 | | |
| | | | | | 116.3 | 7.07E-06 | 2.62E-05 | | |
| 3200 | 108.2X | 12.77X | -1.686X | 5.008X | 115.6 | 4.62E-06 | 1.71E-05 | 1.20E-03X | 4.44E-03X |
| | | | | | 114.6 | 3.28E-06 | 1.22E-05 | | |
| | | | | | 116.6 | 2.87E-06 | 1.06E-05 | | |
| 5000 | 94.1X | 9.31X | .627X | 2.875X | 86.0? | 8.42E-07?? | 3.12E-06? | 9.41E-04X | 3.48E-03X |
| | | | | | 82.0? | 5.20E-07?? | 1.92E-06? | | |
| | | | | | 84.0? | 4.84E-07?? | 1.79E-06? | | |
| 7000 | 84.6X | 7.06X | 1.137X | 3.819X | 80.0? | 7.22E-07?? | 2.67E-06? | 9.06E-04X | 3.35E-03X |
| | | | | | 82.0? | 6.02E-07?? | 2.23E-06? | | |
| | | | | | 78.0? | 5.77E-07?? | 2.14E-06? | | |
| 12800 | 97.4? | 6.01? | .710? | 2.277? | 91.0? | 2.29E-09?? | 8.49E-09? | 2.19E-06? | 8.11E-06? |
| | | | | | 96.0? | 1.19E-09?? | 4.41E-09? | | |
| | | | | | 95.0? | 9.17E-10?? | 3.39E-09? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



120301

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.
TRACE OF RAIN FELL DURING TRACER RELEASE. UP TO 0.03 INCHES OF RAIN FELL DURING PICKUP OF SAMPLES; ALTHOUGH MANY FILTERS WERE VERY WET, THE EFFECTS OF THIS "WASHING" ARE UNCERTAIN.

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 6.5M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 133.2 | 4.19 | .066 | 2.608 | 134.0 | 2.55E-05 | 1.66E-04 | 2.11E-03 | 1.37E-02 |
| | | | | | 130.0 | 2.32E-05 | 1.51E-04 | | |
| | | | | | 138.0 | 1.59E-05 | 1.03E-04 | | |
| 800 | 134.2 | 3.73 | -.342 | 2.444 | 133.2 | 1.37E-05? | 8.88E-05? | 1.82E-03? | 1.18E-02? |
| | | | | | 136.8 | 1.36E-05? | 8.82E-05? | | |
| | | | | | 135.0 | 1.01E-05? | 6.56E-05? | | |
| 1200 | 133.5 | 3.19 | -.214 | 2.785 | 136.0 | 6.51E-06 | 4.23E-05 | 1.05E-03 | 6.81E-03 |
| | | | | | 134.0 | 5.64E-06 | 3.67E-05 | | |
| | | | | | 132.0 | 4.72E-06 | 3.07E-05 | | |
| 1600 | 133.1 | 3.02 | .187 | 2.699 | 135.4 | 7.44E-06? | 4.84E-05? | 1.42E-03? | 9.21E-03? |
| | | | | | 133.5 | 6.81E-06? | 4.42E-05? | | |
| | | | | | 132.5 | 5.52E-06? | 3.59E-05? | | |
| 2200 | 132.8 | 3.17 | .311 | 2.607 | 130.0 | 1.69E-06 | 1.10E-05 | 4.82E-04 | 3.13E-03 |
| | | | | | 132.0 | 1.19E-06 | 7.73E-06 | | |
| | | | | | 134.0 | 1.19E-06 | 7.72E-06 | | |
| 3200 | 133.9 | 2.63 | .161 | 2.385 | 134.2 | 1.84E-06? | 1.20E-05? | 7.29E-04? | 4.74E-03? |
| | | | | | 133.2 | 1.66E-06? | 1.08E-05? | | |
| | | | | | 132.2 | 1.58E-06? | 1.03E-05? | | |
| 5000 | 134.7 | 1.99 | .466 | 2.662 | 134.0 | 9.69E-07 | 6.30E-06 | 3.44E-04 | 2.23E-03 |
| | | | | | 132.0 | 3.31E-07 | 2.15E-06 | | |
| | | | | | 138.0 | 3.20E-07 | 2.08E-06 | | |
| 7000 | 136.3? | 1.69? | -.144? | 2.163? | 138.0 | 6.64E-07 | 4.31E-06 | 4.51E-04? | 2.93E-03? |
| | | | | | 136.0 | 5.92E-07 | 3.85E-06 | | |
| | | | | | 134.0 | 4.94E-07 | 3.21E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U78 SEPTEMBER 18, 1968 0131 TO 0201 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 7.3M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 133.1 | 2.88 | -.484 | 4.389 | 134.0 | 3.46E-06 | 2.53E-05 | 1.57E-04 | 1.15E-03 |
| | | | | | 130.0 | 1.26E-06 | 9.23E-06 | | |
| | | | | | 138.0 | 5.70E-07 | 4.16E-06 | | |
| 800 | 132.5 | 2.63 | .327 | 3.467 | 133.2 | 2.61E-05 | 1.91E-04 | 2.10E-03 | 1.53E-02 |
| | | | | | 131.4 | 1.62E-05 | 1.18E-04 | | |
| | | | | | 129.5 | 1.38E-05 | 1.01E-04 | | |
| 1200 | 132.7 | 2.83 | .122 | 2.718 | 132.0 | 5.77E-06 | 4.21E-05 | 9.13E-04 | 6.66E-03 |
| | | | | | 134.0 | 4.73E-06 | 3.45E-05 | | |
| | | | | | 130.0 | 4.46E-06 | 3.26E-05 | | |
| 1600 | 133.7 | 2.83 | -.396 | 2.460 | 136.4 | 9.40E-06 | 6.86E-05 | 1.28E-03 | 9.34E-03 |
| | | | | | 133.5 | 5.06E-06 | 3.70E-05 | | |
| | | | | | 134.4 | 5.06E-06 | 3.70E-05 | | |
| 2200 | 133.0 | 2.75 | .347 | 2.633 | 132.0 | 2.35E-06 | 1.72E-05 | 7.07E-04 | 5.16E-03 |
| | | | | | 130.0 | 2.28E-06 | 1.67E-05 | | |
| | | | | | 136.0 | 1.87E-06 | 1.36E-05 | | |
| 3200 | 133.3 | 2.35 | -.062 | 2.746 | 133.2 | 1.55E-06 | 1.13E-05 | 4.67E-04 | 3.41E-03 |
| | | | | | 131.2 | 1.28E-06 | 9.31E-06 | | |
| | | | | | 134.2 | 1.10E-06 | 8.05E-06 | | |
| 5000 | 134.6 | 1.68 | -.057 | 2.466 | 134.0 | 5.51E-07 | 4.02E-06 | 2.51E-04 | 1.83E-03 |
| | | | | | 136.0 | 5.51E-07 | 4.02E-06 | | |
| | | | | | 132.0 | 2.51E-07 | 1.84E-06 | | |
| 7000 | 136.3 | 1.48 | -.117 | 2.172 | 136.0 | 3.02E-07 | 2.20E-06 | 1.66E-04 | 1.21E-03 |
| | | | | | 138.0 | 2.16E-07 | 1.57E-06 | | |
| | | | | | 134.0 | 1.30E-07 | 9.49E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



120009

SAMPLING 400M TO 12800M. NO TOWER SAMPLING.
SAMPLING ARC AT 2200M WAS NOT ACTIVATED.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER.

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.1M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 128.9 | 3.20 | .735 | 2.719 | 126.0 | 1.85E-05 | 9.45E-05 | 1.12E-03 | 5.72E-03 |
| | | | | | 130.0 | 1.44E-05 | 7.34E-05 | | |
| | | | | | 134.0 | 6.30E-06 | 3.21E-05 | | |
| 800 | 128.5 | 2.79 | .265 | 2.861 | 127.7 | 4.09E-05 | 2.09E-04 | 3.38E-03 | 1.72E-02 |
| | | | | | 129.5 | 2.35E-05 | 1.20E-04 | | |
| | | | | | 125.8 | 1.90E-05 | 9.68E-05 | | |
| 1200 | 128.6 | 2.30 | .306 | 3.190 | 128.0 | 2.29E-05 | 1.17E-04 | 2.61E-03 | 1.33E-02 |
| | | | | | 130.0 | 1.50E-05 | 7.64E-05 | | |
| | | | | | 126.0 | 1.30E-05 | 6.65E-05 | | |
| 1600 | 128.8 | 2.10 | .001 | 2.850 | 128.8 | 1.87E-05 | 9.52E-05 | 2.88E-03 | 1.47E-02 |
| | | | | | 127.8 | 1.63E-05 | 8.32E-05 | | |
| | | | | | 129.7 | 1.52E-05 | 7.75E-05 | | |
| 3200 | 126.1 | 2.31 | -.350 | 3.016 | 126.3 | 5.97E-06 | 3.05E-05 | 1.57E-03 | 8.02E-03 |
| | | | | | 127.3 | 5.74E-06 | 2.93E-05 | | |
| | | | | | 125.4 | 3.79E-06 | 1.94E-05 | | |
| 5000 | 120.8 | 2.08 | -.863 | 3.915 | 122.0 | 3.19E-06 | 1.63E-05 | 1.02E-03 | 5.22E-03 |
| | | | | | 120.0 | 1.25E-06 | 6.36E-06 | | |
| | | | | | 118.0 | 7.94E-07 | 4.05E-06 | | |
| 7000 | 119.9 | 2.80 | -.359 | 3.132 | 120.0 | 1.57E-06 | 8.03E-06 | 1.24E-03 | 6.35E-03 |
| | | | | | 122.0 | 1.31E-06 | 6.69E-06 | | |
| | | | | | 118.0 | 8.21E-07 | 4.19E-06 | | |
| 12800 | 112.1 | 3.58 | -.261 | 2.498 | 112.0 | 1.10E-07 | 5.63E-07 | 1.98E-04 | 1.01E-03 |
| | | | | | 110.0 | 1.01E-07 | 5.16E-07 | | |
| | | | | | 113.0 | 9.52E-08 | 4.86E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U79 SEPTEMBER 20, 1968 0027 TO 0057 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 6.6M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION | | | | THREE MAXIMUM EXPOSURES | | | CROSSWIND INTEGRATED VALUES | |
|---|---|---|---|---|---|---|---|---|---|
| | MEAN | STAND DEV | COEFFICIENT SKEW | KURT | AZIMUTH | E/Q | EU/Q | CI(E/Q) | CI(EU/Q) |
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 139.0 | 9.18 | .368 | 1.956 | 134.0 | 5.04E-09 | 3.32E-08 | 3.96E-07 | 2.61E-06 |
| | | | | | 154.0 | 2.22E-09 | 1.47E-08 | | |
| | | | | | 142.0 | 1.64E-09 | 1.08E-08 | | |
| 800 | 130.3 | 2.32 | -.102 | 4.582 | 129.5 | 7.05E-06 | 4.65E-05 | 5.61E-04 | 3.70E-03 |
| | | | | | 131.4 | 5.37E-06 | 3.54E-05 | | |
| | | | | | 127.7 | 3.90E-06 | 2.57E-05 | | |
| 1200 | 130.2 | 1.57 | -.566 | 5.172 | 130.0 | 7.91E-06 | 5.22E-05 | 5.44E-04 | 3.59E-03 |
| | | | | | 132.0 | 2.94E-06 | 1.94E-05 | | |
| | | | | | 128.0 | 1.28E-06 | 8.44E-06 | | |
| 1600 | 130.5 | 1.68 | -.210 | 3.561 | 130.6 | 7.34E-06 | 4.84E-05 | 7.38E-04 | 4.87E-03 |
| | | | | | 131.5 | 6.09E-06 | 4.02E-05 | | |
| | | | | | 129.7 | 4.83E-06 | 3.19E-05 | | |
| 3200 | 129.0 | 1.59 | -.241 | 3.465 | 129.3 | 3.32E-06 | 2.19E-05 | 6.81E-04 | 4.49E-03 |
| | | | | | 130.3 | 2.51E-06 | 1.66E-05 | | |
| | | | | | 127.3 | 2.02E-06 | 1.34E-05 | | |
| 5000 | 124.6 | 2.83 | -.582 | 3.316 | 126.0 | 1.02E-06 | 6.74E-06 | 4.28E-04 | 2.83E-03 |
| | | | | | 122.0 | 5.19E-07 | 3.43E-06 | | |
| | | | | | 124.0 | 3.63E-07 | 2.39E-06 | | |
| 7000 | 124.0 | 2.59 | -.625 | 3.524 | 126.0 | 8.78E-07 | 5.79E-06 | 6.95E-04 | 4.59E-03 |
| | | | | | 124.0 | 8.06E-07 | 5.32E-06 | | |
| | | | | | 122.0 | 5.12E-07 | 3.38E-06 | | |
| 12800 | 115.2 | 3.73 | -.608 | 3.246 | 115.0 | 2.25E-07 | 1.48E-06 | 4.09E-04 | 2.70E-03 |
| | | | | | 117.0 | 2.25E-07 | 1.48E-06 | | |
| | | | | | 114.0 | 2.08E-07 | 1.37E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1203011

SAMPLING 400M TO 3200M. NO TOWER SAMPLING. ALL ARCS TRUNCATED FOR ZNS RELEASE FROM 26M. SOME ARCS TRUNCATED FOR FLUORESCEIN RELEASE FROM 56M. TRACER "SMEARED" WIDELY IN CROSSWIND DIRECTION. THERMALLY VERY STABLE ATMOSPHERE. EQUIPMENT DIFFICULTIES DURING FLUORESCEIN ASSAY.

TEST 080 SEPTEMBER 30, 1968 0039 TO 0109 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 2.2M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 115.5X | 21.85X | -1.301X | 4.330X | 126.0 | 2.71E-05 | 5.97E-05 | 3.10E-03X | 6.82E-03X |
| | | | | | 118.0 | 1.21E-05 | 2.67E-05 | | |
| | | | | | 130.0 | 1.21E-05 | 2.67E-05 | | |
| 800 | 126.1X | 18.56X | -1.512X | 6.850X | 129.5 | 4.15E-05 | 9.13E-05 | 1.13E-02X | 2.49E-02X |
| | | | | | 127.7 | 2.44E-05 | 5.37E-05 | | |
| | | | | | 125.8 | 2.24E-05 | 4.93E-05 | | |
| 1200 | 121.7X | 20.86X | -1.349X | 4.796X | 126.0 | 1.31E-05 | 2.88E-05 | 8.68E-03X | 1.91E-02X |
| | | | | | 134.0 | 1.20E-05 | 2.64E-05 | | |
| | | | | | 136.0 | 1.19E-05 | 2.62E-05 | | |
| 1600 | 124.3X | 14.01X | -1.609X | 7.102X | 127.8 | 1.90E-05 | 4.19E-05 | 1.19E-02X | 2.61E-02X |
| | | | | | 121.2 | 1.80E-05 | 3.97E-05 | | |
| | | | | | 122.1 | 1.77E-05 | 3.89E-05 | | |
| 2200 | 102.5X | 24.57X | -.381X | 2.120X | 126.0 | 1.04E-06 | 2.29E-06 | 9.98E-04X | 2.19E-03X |
| | | | | | 128.0 | 8.99E-07 | 1.98E-06 | | |
| | | | | | 108.0 | 7.23E-07 | 1.59E-06 | | |
| 3200 | 90.7? | 9.21? | .566? | 3.851? | 84.8 | 1.07E-06 | 2.35E-06 | 8.12E-04? | 1.79E-03? |
| | | | | | 89.8 | 9.00E-07 | 1.98E-06 | | |
| | | | | | 93.8 | 8.13E-07 | 1.79E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



080 1203012

TEST U80 SEPTEMBER 30, 1968 0039 TO 0109 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 2.8M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 126.7? | 6.99? | -3.018? | 12.844? | 130.0? | 1.29E-06? | 3.62E-06? | 5.59E-05? | 1.57E-04? |
| | | | | | 126.0? | 4.96E-07? | 1.39E-06? | | |
| | | | | | 106.0? | 6.00E-06? | 1.68E-07? | | |
| 800 | 130.6? | 3.49? | -1.875? | 12.611? | 131.4? | 2.22E-05? | 6.21E-05? | 1.70E-03? | 4.76E-03? |
| | | | | | 133.2? | 1.71E-05? | 4.79E-05? | | |
| | | | | | 129.5? | 6.48E-06? | 1.81E-05? | | |
| 1200 | 130.9? | 6.53? | -1.950? | 8.643? | 134.0? | 1.13E-05? | 3.16E-05? | 1.31E-03? | 3.66E-03? |
| | | | | | 132.0? | 8.47E-06? | 2.37E-05? | | |
| | | | | | 130.0? | 3.08E-06? | 8.61E-06? | | |
| 1600 | 132.8? | 6.34? | -1.886? | 7.787? | 133.5? | 8.21E-06? | 2.30E-05? | 1.40E-03? | 3.91E-03? |
| | | | | | 134.4? | 7.69E-06? | 2.15E-05? | | |
| | | | | | 132.5? | 7.11E-06? | 1.99E-05? | | |
| 2200 | 127.6? | 12.60? | -1.050? | 2.916? | 136.0? | 2.72E-06? | 7.62E-06? | 8.97E-04? | 2.51E-03? |
| | | | | | 134.0? | 2.52E-06? | 7.04E-06? | | |
| | | | | | 140.0? | 8.71E-07? | 2.44E-06? | | |
| 3200 | 116.1? | 17.00? | .153? | 2.231? | 140.1? | 9.18E-07? | 2.57E-06? | 1.14E-03? | 3.20E-03? |
| | | | | | 112.7? | 8.43E-07? | 2.36E-06? | | |
| | | | | | 110.7? | 7.22E-07? | 2.02E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



120013

U80

1203014

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE ESSENTIALLY ENTIRE CROSSWIND EXTENT OF TRACER. HIGH DUST LEVEL ON FILTERS EXPOSED AT 5000M, 7000M AND 12800M. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- ESPECIALLY ZNS.) LARGE WIND DIRECTION VARIANCE FOR RELATIVELY HIGH WIND SPEED.

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.7M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 111.6? | 12.64? | -.699? | 3.871? | 114.0? | 9.51E-06? | 5.42E-05? | 1.97E-03? | 1.13E-02? |
| | | | | | 118.0 | 9.23E-06 | 5.26E-05 | | |
| | | | | | 110.0? | 8.81E-06? | 5.02E-05? | | |
| 800 | 116.1 | 7.97 | -1.094 | 5.856 | 118.3 | 1.70E-05 | 9.67E-05 | 3.01E-03 | 1.72E-02 |
| | | | | | 116.4 | 1.41E-05 | 8.01E-05 | | |
| | | | | | 114.5 | 9.99E-06 | 5.70E-05 | | |
| 1200 | 116.2 | 6.26 | -1.431 | 6.631 | 116.0? | 7.08E-06? | 4.03E-05? | 1.43E-03 | 8.16E-03 |
| | | | | | 118.0 | 6.58E-06 | 3.75E-05 | | |
| | | | | | 114.0 | 3.67E-06 | 2.09E-05 | | |
| 1600 | 116.2 | 4.79 | -.973 | 4.892 | 116.3 | 6.15E-06 | 3.51E-05 | 1.56E-03 | 8.91E-03 |
| | | | | | 117.3 | 6.03E-06 | 3.43E-05 | | |
| | | | | | 115.3 | 5.28E-06 | 3.01E-05 | | |
| 2200 | 115.7 | 4.17 | -.550 | 3.592 | 118.0 | 4.35E-07 | 2.48E-06 | 1.15E-04 | 6.53E-04 |
| | | | | | 114.0 | 2.35E-07 | 1.34E-06 | | |
| | | | | | 116.0 | 2.12E-07 | 1.21E-06 | | |
| 3200 | 115.8 | 3.46 | -.394 | 3.194 | 116.6 | 1.16E-06 | 6.62E-06 | 5.73E-04 | 3.27E-03 |
| | | | | | 117.6 | 1.05E-06 | 5.99E-06 | | |
| | | | | | 115.6 | 1.02E-06 | 5.82E-06 | | |
| 5000 | 115.6? | 2.69? | -.080? | 2.932? | 114.0? | 6.50E-08? | 3.70E-07? | 4.06E-05? | 2.32E-04? |
| | | | | | 118.0? | 5.99E-08? | 3.41E-07? | | |
| | | | | | 116.0? | 5.32E-08? | 3.03E-07? | | |
| 7000 | 114.7? | 3.79? | -.091? | 2.999? | 116.0? | 2.13E-07? | 1.22E-06? | 2.36E-04? | 1.35E-03? |
| | | | | | 114.0? | 2.02E-07? | 1.15E-06? | | |
| | | | | | 112.0? | 1.37E-07? | 7.82E-07? | | |
| 12800 | 112.6? | 4.09? | -.295? | 2.405? | 111.0? | 2.77E-08? | 1.58E-07? | 7.82E-05? | 4.46E-04? |
| | | | | | 112.0? | 2.76E-08? | 1.57E-07? | | |
| | | | | | 110.0? | 2.74E-08? | 1.56E-07? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U81 OCTOBER 1, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 7.0M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 115.9 | 11.76 | .829 | 2.791 | 110.0 | 3.60E-06 | 2.52E-05 | 3.46E-04 | 2.42E-03 |
| | | | | | 138.0 | 2.04E-06 | 1.43E-05 | | |
| | | | | | 114.0 | 1.82E-06 | 1.27E-05 | | |
| 800 | 114.0 | 6.23 | .462 | 3.478 | 114.5 | 6.52E-06 | 4.56E-05 | 1.11E-03 | 7.78E-03 |
| | | | | | 112.6 | 5.76E-06 | 4.04E-05 | | |
| | | | | | 108.8 | 4.96E-06 | 3.47E-05 | | |
| 1200 | 116.4 | 5.24 | .313 | 3.363 | 118.0 | 4.26E-06 | 2.98E-05 | 8.44E-04 | 5.91E-03 |
| | | | | | 114.0 | 3.59E-06 | 2.51E-05 | | |
| | | | | | 112.0 | 2.32E-06 | 1.62E-05 | | |
| 1600 | 117.2 | 3.53 | .314 | 3.518 | 114.4 | 7.61E-06 | 5.32E-05 | 1.30E-03 | 9.11E-03 |
| | | | | | 118.2 | 6.61E-06 | 4.63E-05 | | |
| | | | | | 115.3 | 6.28E-06 | 4.40E-05 | | |
| 2200 | 117.8 | 3.43 | .148 | 3.482 | 116.0 | 1.49E-06 | 1.04E-05 | 3.65E-04 | 2.55E-03 |
| | | | | | 118.0 | 1.33E-06 | 9.29E-06 | | |
| | | | | | 122.0 | 6.57E-07 | 4.60E-06 | | |
| 3200 | 118.1 | 3.84 | .151 | 2.773 | 116.6 | 2.02E-06 | 1.41E-05 | 7.08E-04 | 4.96E-03 |
| | | | | | 117.6 | 1.28E-06 | 8.94E-06 | | |
| | | | | | 114.6 | 1.16E-06 | 8.15E-06 | | |
| 5000 | 117.3 | 4.22 | .392 | 2.253 | 116.0 | 4.00E-07 | 2.80E-06 | 2.69E-04 | 1.88E-03 |
| | | | | | 114.0 | 2.69E-07 | 1.88E-06 | | |
| | | | | | 112.0 | 1.96E-07 | 1.37E-06 | | |
| 7000 | 116.0 | 4.52 | .145 | 2.744 | 118.0 | 5.03E-07 | 3.52E-06 | 6.65E-04 | 4.65E-03 |
| | | | | | 116.0 | 4.20E-07 | 2.94E-06 | | |
| | | | | | 114.0 | 3.80E-07 | 2.66E-06 | | |
| 12800 | 113.9 | 4.96 | .357 | 4.408 | 117.0 | 1.84E-07 | 1.29E-06 | 3.16E-04 | 2.21E-03 |
| | | | | | 116.0 | 1.30E-07 | 9.13E-07 | | |
| | | | | | 110.0 | 1.12E-07 | 7.81E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 12800M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. NO FLUORESCEIN DETECTED AT 400M ARC. HIGH DUST LEVEL ON FILTERS ON 5000, 7000 AND 12800M ARCS. (DUST DEGRADES CONFIDENCE IN TRACER ASSAY -- PARTICULARLY ZNS.) LARGE DIRECTION SHEAR. PLUME CENTERLINE SHIFTS LOCATION STARTING AT 3200M.

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.7M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 115.2 | 4.90 | -.835 | 3.149 | 118.0 | 2.93E-06 | 1.38E-05 | 1.83E-04 | 8.59E-04 |
| | | | | | 114.0 | 1.27E-06 | 5.95E-06 | | |
| | | | | | 110.0 | 9.04E-07 | 4.25E-06 | | |
| 800 | 115.6 | 4.41 | -.679 | 3.852 | 118.3 | 1.36E-05 | 6.41E-05 | 1.90E-03 | 8.93E-03 |
| | | | | | 114.5 | 1.22E-05 | 5.73E-05 | | |
| | | | | | 116.4 | 1.07E-05 | 5.01E-05 | | |
| 1200 | 113.9 | 4.53 | -.863 | 4.477 | 114.0 | 9.51E-06 | 4.47E-05 | 1.87E-03 | 8.79E-03 |
| | | | | | 116.0 | 8.58E-06? | 4.03E-05? | | |
| | | | | | 118.0 | 7.38E-06 | 3.47E-05 | | |
| 1600 | 113.8 | 5.07 | -.467 | 3.116 | 117.3 | 8.20E-06 | 3.85E-05 | 2.86E-03 | 1.34E-02 |
| | | | | | 113.4 | 8.17E-06 | 3.84E-05 | | |
| | | | | | 115.3 | 7.37E-06 | 3.46E-05 | | |
| 2200 | 113.4 | 4.70 | -.226 | 3.937 | 116.0 | 1.38E-06 | 6.49E-06 | 4.48E-04 | 2.11E-03 |
| | | | | | 114.0 | 1.31E-06 | 6.17E-06 | | |
| | | | | | 112.0 | 8.40E-07? | 3.95E-06? | | |
| 3200 | 118.1 | 5.78 | -.398 | 2.327 | 119.5 | 3.41E-06 | 1.60E-05 | 1.64E-03 | 7.70E-03 |
| | | | | | 113.7 | 2.90E-06 | 1.36E-05 | | |
| | | | | | 120.5 | 2.56E-06 | 1.20E-05 | | |
| 5000 | 120.9 | 5.14 | -.087 | 2.282 | 116.0 | 7.71E-07 | 3.63E-06 | 7.21E-04 | 3.39E-03 |
| | | | | | 126.0 | 7.57E-07 | 3.56E-06 | | |
| | | | | | 124.0 | 5.38E-07 | 2.53E-06 | | |
| 7000 | 129.1 | 5.60 | -.691 | 2.727 | 134.0 | 1.70E-06 | 8.00E-06 | 2.15E-03 | 1.01E-02 |
| | | | | | 132.0 | 1.32E-06? | 6.21E-06? | | |
| | | | | | 130.0 | 1.08E-06 | 5.05E-06 | | |
| 12800 | 130.9 | 2.14 | -.608 | 4.068 | 133.0 | 9.07E-07 | 4.26E-06 | 7.35E-04 | 3.45E-03 |
| | | | | | 132.0 | 5.84E-07 | 2.75E-06 | | |
| | | | | | 130.0 | 4.56E-07? | 2.14E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



U82 120301G

TEST U82 OCTOBER 2, 1968 0111 TO 0141 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 4.6M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0. | 0. | 0. | 0. |
| | | | | | 0.0 | 0. | 0. | | |
| | | | | | 0.0 | 0. | 0. | | |
| 800 | 123.1 | 2.00 | -.855 | 6.066 | 122.1 | 3.05E-06 | 1.40E-05 | 1.63E-04 | 7.50E-04 |
| | | | | | 125.8 | 1.28E-06 | 5.88E-06 | | |
| | | | | | 124.0 | 1.20E-06 | 5.52E-06 | | |
| 1200 | 124.0 | 2.98 | .090 | 3.358 | 124.0 | 2.54E-06 | 1.17E-05 | 3.40E-04 | 1.57E-03 |
| | | | | | 126.0 | 2.22E-06 | 1.02E-05 | | |
| | | | | | 120.0 | 1.19E-06 | 5.46E-06 | | |
| 1600 | 123.6 | 3.23 | .768 | 3.799 | 123.1 | 7.06E-06 | 3.25E-05 | 8.66E-04 | 3.98E-03 |
| | | | | | 124.1 | 4.65E-06 | 2.14E-05 | | |
| | | | | | 122.1 | 3.96E-06 | 1.82E-05 | | |
| 2200 | 124.5 | 3.62 | .372 | 3.016 | 124.0 | 1.89E-06 | 8.72E-06 | 6.17E-04 | 2.84E-03 |
| | | | | | 126.0 | 1.61E-06 | 7.42E-06 | | |
| | | | | | 122.0 | 1.58E-06 | 7.25E-06 | | |
| 3200 | 125.8 | 4.80 | .060 | 2.877 | 123.4 | 2.02E-06 | 9.31E-06 | 1.11E-03 | 5.12E-03 |
| | | | | | 125.4 | 2.02E-06 | 9.31E-06 | | |
| | | | | | 124.4 | 1.64E-06 | 7.52E-06 | | |
| 5000 | 128.7 | 6.14 | -.421 | 2.951 | 128.0 | 3.49E-07 | 1.60E-06 | 3.93E-04 | 1.81E-03 |
| | | | | | 136.0 | 3.35E-07 | 1.54E-06 | | |
| | | | | | 126.0 | 2.73E-07 | 1.26E-06 | | |
| 7000 | 132.6 | 4.94 | -.219 | 3.865 | 134.0 | 6.16E-07 | 2.83E-06 | 5.40E-04 | 2.49E-03 |
| | | | | | 130.0 | 3.01E-07 | 1.38E-06 | | |
| | | | | | 136.0 | 2.67E-07 | 1.23E-06 | | |
| 12800 | 134.6 | 4.40 | .640 | 3.244 | 133.0 | 3.08E-07 | 1.41E-06 | 6.47E-04 | 2.98E-03 |
| | | | | | 134.0 | 2.96E-07 | 1.36E-06 | | |
| | | | | | 132.0 | 2.73E-07 | 1.26E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

SAMPLING 400M TO 7000M. NO TOWER SAMPLING. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. CENTERLINES OF FLUORESCEIN AND ZINC SULFIDE PLUMES AT SIGNIFICANTLY DIFFERENT DIRECTIONS. THERMALLY VERY STABLE ATMOSPHERE. LARGE DIRECTION SHEAR WITH HEIGHT.

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.2M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 112.7 | 2.23 | -.710 | 3.257 | 114.0 | 5.04E-06 | 2.62E-05 | 2.17E-04 | 1.13E-03 |
| | | | | | 110.0 | 2.40E-06 | 1.25E-05 | | |
| | | | | | 106.0 | 1.80E-07 | 9.35E-07 | | |
| 800 | 112.1 | 3.16 | -.415 | 2.595 | 114.5 | 6.83E-06 | 3.55E-05 | 7.90E-04 | 4.11E-03 |
| | | | | | 112.6 | 5.64E-06 | 2.93E-05 | | |
| | | | | | 110.7 | 5.13E-06 | 2.67E-05 | | |
| 1200 | 111.3 | 2.78 | -.257 | 2.835 | 112.0 | 6.73E-06 | 3.50E-05 | 1.11E-03 | 5.77E-03 |
| | | | | | 110.0 | 6.24E-06 | 3.24E-05 | | |
| | | | | | 114.0 | 6.18E-06 | 3.21E-05 | | |
| 1600 | 111.6 | 2.56 | -.157 | 3.303 | 110.4 | 1.19E-05 | 6.18E-05 | 1.85E-03 | 9.61E-03 |
| | | | | | 111.4 | 1.05E-05 | 5.44E-05 | | |
| | | | | | 112.4 | 8.33E-06 | 4.33E-05 | | |
| 2200 | 110.2 | 2.85 | -.426 | 2.841 | 110.0 | 1.34E-06 | 6.95E-06 | 3.31E-04 | 1.72E-03 |
| | | | | | 112.0 | 1.10E-06 | 5.71E-06 | | |
| | | | | | 114.0 | 5.92E-07 | 3.08E-06 | | |
| 3200 | 111.3 | 2.60 | .066 | 2.537 | 109.7 | 3.69E-06 | 1.92E-05 | 1.09E-03 | 5.68E-03 |
| | | | | | 110.7 | 3.31E-06 | 1.72E-05 | | |
| | | | | | 108.8 | 3.28E-06 | 1.71E-05 | | |
| 5000 | 112.8 | 2.85 | -.072 | 3.349 | 112.0 | 6.08E-07 | 3.16E-06 | 3.93E-04 | 2.04E-03 |
| | | | | | 110.0 | 4.97E-07 | 2.59E-06 | | |
| | | | | | 114.0 | 4.91E-07 | 2.56E-06 | | |
| 7000 | 115.8 | 2.41 | -.358 | 2.779 | 116.0 | 1.80E-06 | 9.34E-06 | 1.46E-03 | 7.62E-03 |
| | | | | | 118.0 | 1.58E-06 | 8.24E-06 | | |
| | | | | | 114.0 | 1.24E-06 | 6.44E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U83 OCTOBER 3, 1968 0112 TO 0142 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 6.6M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 111.7 | 2.92 | -1.153 | 6.166 | 110.0 | 2.88E-08 | 1.90E-07 | 1.69E-06 | 1.12E-05 |
| | | | | | 114.0 | 2.77E-08 | 1.83E-07 | | |
| | | | | | 102.0 | 1.91E-09 | 1.26E-08 | | |
| 800 | 118.7 | 2.22 | -.258 | 3.802 | 116.4 | 2.33E-06 | 1.54E-05 | 1.44E-04 | 9.50E-04 |
| | | | | | 120.2 | 2.25E-06 | 1.49E-05 | | |
| | | | | | 122.1 | 5.47E-07 | 3.61E-06 | | |
| 1200 | 118.3 | 3.75 | 1.506 | 7.227 | 116.0 | 8.47E-07 | 5.59E-06 | 1.18E-04 | 7.81E-04 |
| | | | | | 120.0 | 5.56E-07 | 3.67E-06 | | |
| | | | | | 114.0 | 4.42E-07 | 2.92E-06 | | |
| 1600 | 118.5 | 3.28 | .226 | 1.667 | 122.1 | 3.02E-06 | 1.99E-05 | 3.48E-04 | 2.30E-03 |
| | | | | | 116.3 | 2.23E-06 | 1.47E-05 | | |
| | | | | | 114.4 | 1.93E-06 | 1.27E-05 | | |
| 2200 | 118.6 | 2.41 | -.150 | 3.168 | 120.0 | 1.11E-06 | 7.30E-06 | 2.54E-04 | 1.68E-03 |
| | | | | | 118.0 | 9.48E-07 | 6.26E-06 | | |
| | | | | | 116.0 | 4.73E-07 | 3.12E-06 | | |
| 3200 | 120.2 | 3.08 | -.940 | 3.353 | 122.4 | 1.41E-06 | 9.32E-06 | 3.15E-04 | 2.08E-03 |
| | | | | | 121.5 | 9.87E-07 | 6.51E-06 | | |
| | | | | | 120.5 | 6.95E-07 | 4.59E-06 | | |
| 5000 | 120.4 | 2.31 | -.573 | 4.483 | 122.0 | 1.17E-06 | 7.72E-06 | 4.78E-04 | 3.15E-03 |
| | | | | | 120.0 | 7.67E-07 | 5.06E-06 | | |
| | | | | | 118.0 | 4.80E-07 | 3.16E-06 | | |
| 7000 | 121.1 | 1.71 | -.206 | 7.847 | 122.0 | 1.61E-06 | 1.06E-05 | 7.31E-04 | 4.82E-03 |
| | | | | | 120.0 | 9.20E-07 | 6.07E-06 | | |
| | | | | | 118.0 | 1.97E-07 | 1.30E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1203019

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. ONLY ZNS TRACER WAS DISPERSED. NO TRACER OBSERVED ON 400M OR 800M ARCS. WITH THE EXCEPTION OF THE 12800M ARC, ALL ARCS EXPOSED TO TRACER EMBRACED THE ENTIRE CROSSWIND DISTRIBUTION.

TEST U84 AUGUST 27, 1969 0140 TO 0210 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 7.1M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0. | 0. | 0. | 0. |
| | | | | | 0.0 | 0. | 0. | | |
| | | | | | 0.0 | 0. | 0. | | |
| 800 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0. | 0. | 0. | 0. |
| | | | | | 0.0 | 0. | 0. | | |
| | | | | | 0.0 | 0. | 0. | | |
| 1600 | 116.3 | 1.43 | .159 | 1.830 | 115.3 | 4.81E-07 | 3.41E-06 | 3.85E-05 | 2.74E-04 |
| | | | | | 118.2 | 3.11E-07 | 2.21E-06 | | |
| | | | | | 117.3 | 2.19E-07 | 1.56E-06 | | |
| 3200 | 114.4? | 2.12? | -.371? | 9.049? | 113.7 | 6.75E-07 | 4.79E-06 | 1.26E-04? | 8.91E-04? |
| | | | | | 115.6 | 6.09E-07 | 4.32E-06 | | |
| | | | | | 114.6 | 4.64E-07 | 3.29E-06 | | |
| 5000 | 115.7 | 4.95 | .567 | 2.270 | 114.0 | 1.00E-07 | 7.12E-07 | 6.41E-05 | 4.55E-04 |
| | | | | | 112.0 | 7.36E-08? | 5.23E-07? | | |
| | | | | | 110.0 | 4.09E-08 | 2.90E-07 | | |
| 7000 | 118.9 | 4.38 | -1.865 | 10.310 | 120.0 | 1.44E-07 | 1.02E-06 | 5.72E-05 | 4.06E-04 |
| | | | | | 116.0 | 2.79E-08 | 1.98E-07 | | |
| | | | | | 122.0 | 1.65E-08 | 1.17E-07 | | |
| 12800 | 133.9X | 5.36X | 1.652X | 5.530X | 132.0 | 1.61E-06 | 1.14E-05 | 9.56E-04X | 6.79E-03X |
| | | | | | 131.0 | 7.53E-07 | 5.35E-06 | | |
| | | | | | 133.0 | 3.94E-07 | 2.80E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

1203021

SAMPLING 400M TO 12800M; NO TOWER SAMPLING.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. NO ZNS TRACER OBSERVED ON 400M ARC.
SPORADIC FLUORESCEIN DISPERSAL DURING FIRST 10 MIN OF TEST; OK DURING LAST 20 MIN.

TEST U85 AUGUST 28, 1969 0154 TO 0224 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 9.7M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION | | | | THREE MAXIMUM EXPOSURES | | | CROSSWIND INTEGRATED VALUES | |
|---|---|---|---|---|---|---|---|---|---|
| | MEAN | STAND DEV | COEFFICIENT SKEW | KURT | AZIMUTH | E/Q | EU/Q | CI(E/Q) | CI(EU/Q) |
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0. | 0. | 0. | 0. |
| | | | | | 0.0 | 0. | 0. | | |
| | | | | | 0.0 | 0. | 0. | | |
| 800 | 107.9 | 3.98 | .208 | 2.458 | 105.0 | 7.49E-08 | 7.26E-07 | 9.54E-06 | 9.25E-05 |
| | | | | | 106.9 | 6.69E-08 | 6.49E-07 | | |
| | | | | | 110.7 | 6.59E-08 | 6.39E-07 | | |
| 1600 | 107.6 | 4.89 | .336 | 2.225 | 106.5 | 1.04E-06 | 1.01E-05 | 2.18E-04 | 2.11E-03 |
| | | | | | 100.6 | 6.61E-07 | 6.41E-06 | | |
| | | | | | 107.5 | 5.47E-07 | 5.31E-06 | | |
| 3200 | 108.4 | 3.65 | -.134 | 2.196 | 106.8 | 8.10E-07 | 7.85E-06 | 4.03E-04 | 3.91E-03 |
| | | | | | 109.7 | 6.47E-07 | 6.28E-06 | | |
| | | | | | 107.6 | 6.40E-07 | 6.20E-06 | | |
| 5000 | 109.0 | 2.77 | .815 | 3.177 | 108.0 | 5.91E-07? | 5.73E-06? | 3.09E-04 | 3.00E-03 |
| | | | | | 106.0 | 4.34E-07 | 4.21E-06 | | |
| | | | | | 110.0 | 4.03E-07 | 3.90E-06 | | |
| 7000 | 111.0? | 4.37? | .774? | 2.806? | 108.0? | 3.07E-08? | 2.98E-07? | 3.44E-05? | 3.34E-04? |
| | | | | | 106.0? | 2.79E-08? | 2.71E-07? | | |
| | | | | | 110.0? | 2.34E-06? | 2.27E-07? | | |
| 12800 | 114.5 | 2.26 | -.097 | 1.847 | 116.0 | 7.14E-08 | 6.92E-07 | 7.94E-05 | 7.71E-04 |
| | | | | | 112.0 | 6.22E-08 | 6.03E-07 | | |
| | | | | | 117.0 | 4.38E-08 | 4.25E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST UP5 AUGUST 28, 1969 0154 TO 0224 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 8.2M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 106.5 | 5.42 | .635 | 2.245 | 102.0 | 1.51E-06 | 1.24E-05 | 8.52E-05 | 6.99E-04 |
| | | | | | 110.0 | 5.92E-07 | 4.86E-06 | | |
| | | | | | 114.0 | 4.63E-07 | 3.80E-06 | | |
| 800 | 110.9 | 3.75 | -.645 | 4.422 | 109.8 | 2.78E-06 | 2.28E-05 | 3.06E-04 | 2.51E-03 |
| | | | | | 110.7 | 2.48E-06 | 2.03E-05 | | |
| | | | | | 112.6 | 2.43E-06 | 2.00E-05 | | |
| 1600 | 106.5 | 4.83 | .221 | 2.291 | 102.6 | 4.82E-06 | 3.95E-05 | 1.47E-03 | 1.21E-02 |
| | | | | | 106.5 | 4.48E-06 | 3.67E-05 | | |
| | | | | | 103.6 | 4.39E-06 | 3.60E-05 | | |
| 3200 | 107.6 | 3.83 | -.000 | 1.978 | 104.8 | 1.87E-06 | 1.54E-05 | 1.12E-03 | 9.21E-03 |
| | | | | | 103.8 | 1.68E-06 | 1.38E-05 | | |
| | | | | | 110.7 | 1.68E-06 | 1.38E-05 | | |
| 5000 | 109.5 | 2.90 | .405 | 2.539 | 108.0 | 1.86E-06? | 1.54E-05? | 1.08E-03 | 8.87E-03 |
| | | | | | 110.0 | 1.31E-06 | 1.07E-05 | | |
| | | | | | 106.0 | 1.20E-06 | 9.80E-06 | | |
| 7000 | 110.6? | 3.13? | .551? | 3.633? | 110.0? | 3.36E-07? | 2.75E-06? | 2.94E-04? | 2.41E-03? |
| | | | | | 108.0? | 2.35E-07? | 1.93E-06? | | |
| | | | | | 112.0? | 2.09E-07? | 1.71E-06? | | |
| 12800 | 114.0 | 1.95 | .066 | 2.729 | 114.0 | 2.95E-07 | 2.42E-06 | 3.11E-04 | 2.55E-03 |
| | | | | | 112.0 | 2.80E-07 | 2.29E-06 | | |
| | | | | | 115.0 | 2.16E-07 | 1.77E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1203023

U85

SAMPLING 400M TO 12800M; NO TOWER SAMPLING. POSSIBLE CONTAMINATION OF ZNS ON NORTH END OF 7000M ARC.
ARCS GENERALLY EMBRACE CROSSWIND EXTENT OF TRACER. NO ZNS OBSERVED ON 400M OR 800M ARCS.
POSSIBLE FLUORESCEIN CONTAMINATION ON 400 AND 800M ARCS.

TEST J86 AUGUST 29, 1969 0056 TO 0126 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 6.2M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENTS SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 800 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 1600 | 108.9 | 3.47 | .686 | 1.827 | 105.5 | 3.41E-08 | 2.11E-07 | 3.93E-06 | 2.44E-05 |
| | | | | | 114.4 | 3.26E-08 | 2.02E-07 | | |
| | | | | | 106.5 | 3.11E-08 | 1.93E-07 | | |
| 3200 | 110.4 | 2.56 | -1.068 | 3.945 | 111.7 | 5.37E-07 | 3.33E-06 | 7.72E-05 | 4.79E-04 |
| | | | | | 113.7 | 1.94E-07 | 1.20E-06 | | |
| | | | | | 110.7 | 1.70E-07 | 1.05E-06 | | |
| 5000 | 107.3 | 4.09 | -.336 | 2.656 | 108.0 | 5.40E-08 | 3.35E-07 | 2.90E-05 | 1.80E-04 |
| | | | | | 110.0 | 2.47E-08 | 1.53E-07 | | |
| | | | | | 106.0 | 2.26E-08 | 1.40E-07 | | |
| 7000 | 106.2? | 6.22? | -2.584? | 11.079? | 108.0 | 2.16E-07 | 1.34E-06 | 1.29E-04? | 7.99E-04? |
| | | | | | 104.0 | 9.45E-08 | 5.86E-07 | | |
| | | | | | 110.0 | 8.58E-08 | 5.32E-07 | | |
| 12800 | 111.8 | 2.36 | -2.925 | 12.872 | 113.0 | 4.49E-07 | 2.79E-06 | 1.56E-04 | 9.66E-04 |
| | | | | | 110.0 | 8.15E-08 | 5.05E-07 | | |
| | | | | | 112.0 | 7.03E-08 | 4.36E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



086 120302A

TEST U06 AUGUST 29, 1969 0056 TO 0126 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 4.9M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 97.0? | 5.81? | 2.016? | 11.919? | 94.0? | 2.42E-06? | 1.19E-05? | 1.37E-04? | 6.71E-04? |
| | | | | | 98.0? | 2.10E-06? | 1.03E-05? | | |
| | | | | | 118.0? | 1.64E-07? | 8.04E-07? | | |
| 800 | 99.8? | 4.08? | 3.679? | 20.957? | 97.1? | 4.02E-06? | 1.97E-05? | 2.94E-04? | 1.44E-03? |
| | | | | | 99.1? | 2.81E-06? | 1.38E-05? | | |
| | | | | | 101.1? | 2.61E-06? | 1.28E-05? | | |
| 1600 | 97.3X | 5.58X | .472X | 4.896X | 98.6 | 5.57E-06 | 2.73E-05 | 1.40E-03X | 6.84E-03X |
| | | | | | 99.6 | 4.31E-06 | 2.11E-05 | | |
| | | | | | 96.6 | 4.11E-06 | 2.01E-05 | | |
| 3200 | 101.4 | 5.04 | -.270 | 3.129 | 101.8 | 2.94E-06 | 1.44E-05 | 1.63E-03 | 8.01E-03 |
| | | | | | 99.8 | 2.49E-06 | 1.22E-05 | | |
| | | | | | 98.8 | 2.36E-06 | 1.16E-05 | | |
| 5000 | 102.8 | 4.13 | -.285 | 2.843 | 106.0 | 1.11E-06 | 5.44E-06 | 8.49E-04 | 4.16E-03 |
| | | | | | 100.0 | 9.24E-07 | 4.53E-06 | | |
| | | | | | 102.0 | 8.93E-07 | 4.38E-06 | | |
| 7000 | 102.4 | 4.14 | -.293 | 2.731 | 104.0 | 6.46E-07 | 3.17E-06 | 7.30E-04 | 3.57E-03 |
| | | | | | 102.0 | 5.54E-07 | 2.71E-06 | | |
| | | | | | 100.0 | 5.07E-07 | 2.49E-06 | | |
| 12800 | 107.5 | 4.51 | -.269 | 6.582 | 109.0 | 4.09E-07 | 2.01E-06 | 5.30E-04 | 2.60E-03 |
| | | | | | 110.0 | 3.60E-07 | 1.66E-06 | | |
| | | | | | 107.0 | 2.45E-07 | 1.20E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1203025

1203026

SAMPLING 400M TO 12800M PLUS ONE TOWER ON 3200M-ARC. TRACER DISTRIBUTION IS ERRATIC ON ALL ARCS, PARTIALLY DUE TO HEAVY DUST LOADS ON FILTERS, BUT PERHAPS ALSO DUE TO CONTAMINATION.
26 MIN OF ZNS DISPERSAL; NO FLUORESCEIN DISPERSED. STRONG WIND SPEED AND DIRECTION SHEAR ABOVE 50M ELEVATION.

TEST U87 SEPTEMBER 6, 1969 0151 TO 0217 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 6.1M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 45.9? | 7.03? | -1.329? | 3.265? | 90.0? | 3.16E-08? | 1.93E-07? | 1.27E-06? | 7.75E-06? |
| | | | | | 78.0? | 5.46E-09? | 3.33E-08? | | |
| | | | | | 70.0? | 5.09E-09? | 3.11E-08? | | |
| 800 | 88.6X | 8.50X | .447X | 2.106X | 87.2? | 1.07E-07? | 6.51E-07? | 1.80E-05X | 1.10E-04X |
| | | | | | 79.0? | 8.95E-08? | 5.46E-07? | | |
| | | | | | 81.1? | 8.95E-08? | 5.46E-07? | | |
| 1600 | 86.4X | 7.63X | -.297X | 1.653X | 90.6? | 7.87E-08? | 4.80E-07? | 1.57E-05X | 9.59E-05X |
| | | | | | 93.6? | 7.57E-08? | 4.62E-07? | | |
| | | | | | 94.6? | 5.60E-08? | 3.42E-07? | | |
| 3200 | 87.4X | 10.85X | .534X | 2.120X | 106.8? | 8.30E-08? | 5.07E-07? | 5.21E-05X | 3.18E-04X |
| | | | | | 82.8? | 6.94E-08? | 4.23E-07? | | |
| | | | | | 79.8? | 5.10E-08? | 3.11E-07? | | |
| 5000 | 100.2? | 9.39? | -.044? | 2.400? | 100.0? | 2.73E-08? | 1.66E-07? | 1.60E-05? | 9.79E-05? |
| | | | | | 96.0? | 2.02E-08? | 1.23E-07? | | |
| | | | | | 112.0? | 1.46E-08? | 8.94E-08? | | |
| 7000 | 109.5? | 13.90? | .360? | 2.897? | 112.0? | 1.30E-07? | 7.95E-07? | 1.84E-04? | 1.12E-03? |
| | | | | | 102.0? | 7.83E-08? | 4.78E-07? | | |
| | | | | | 98.0? | 7.64E-08? | 4.66E-07? | | |
| 12800 | 138.6? | 7.03? | -.429? | 2.313? | 141.0? | 4.78E-08? | 2.92E-07? | 8.48E-05? | 5.18E-04? |
| | | | | | 142.0? | 3.15E-08? | 1.92E-07? | | |
| | | | | | 144.0? | 2.91E-08? | 1.77E-07? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

1203027

SAMPLING 400M TO 12800M; TOWER SAMPLING AT 3200M, 115.6 DEG. NO ZNS TRACER OBSERVED CLOSER THAN 3200M ARC, AND DUST AND SAMPLER FAILURE CAUSED PROBLEMS WHERE TRACER WAS FOUND. FOR FLUORESCEIN, TRACER ON 0049, OFF 0055, ON AGAIN 0132, AND FINALLY OFF 0142. THIS TEST WAS MARGINALLY SUCCESSFUL, ESPECIALLY FOR FLUORESCEIN.

TEST 088 SEPTEMBER 10, 1969 0132 TO 0202 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 6.4M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | CORRELATION SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 800 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 1600 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 3200 | 120.2? | 1.80? | .080? | 1.565? | 119.5? | 6.65E-08? | 4.26E-07? | 7.94E-06? | 5.08E-05? |
| | | | | | 122.4? | 5.23E-08? | 3.35E-07? | | |
| | | | | | 117.6? | 2.66E-08? | 1.70E-07? | | |
| 5000 | 121.7? | 2.48? | 1.044? | 2.287? | 120.0? | 4.02E-08? | 2.57E-07? | 1.11E-05? | 7.13E-05? |
| | | | | | 126.0? | 1.49E-08? | 9.56E-08? | | |
| | | | | | 122.0? | 6.61E-09? | 5.51E-08? | | |
| 7000 | 120.2? | 1.63? | .433? | 5.273? | 120.0? | 5.03E-08? | 3.22E-07? | 1.62E-05? | 1.04E-04? |
| | | | | | 124.0? | 6.73E-09? | 4.30E-08? | | |
| | | | | | 116.0? | 2.96E-09? | 1.89E-08? | | |
| 12800 | 122.0? | 1.53? | -.738? | 5.085? | 122.0? | 3.61E-08? | 2.31E-07? | 1.85E-05? | 1.19E-04? |
| | | | | | 123.0? | 1.30E-08? | 8.35E-08? | | |
| | | | | | 121.0? | 1.18E-08? | 7.58E-08? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U88 SEPTEMBER 10, 1969 0497 TO 1427 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 7.6M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 103.5X | 26.19X | .336X | 1.968X | 94.0? | 6.23E-08? | 4.73E-07? | 1.63E-05X | 1.24E-04X |
| | | | | | 82.0? | 4.32E-08? | 3.29E-07? | | |
| | | | | | 66.0? | 3.98E-08? | 3.02E-07? | | |
| 800 | 141.0X | 5.76X | .115X | 2.072X | 133.2? | 2.29E-08? | 1.74E-07? | 2.47E-06X | 1.87E-05X |
| | | | | | 142.4? | 1.34E-08? | 1.02E-07? | | |
| | | | | | 140.6? | 1.15E-08? | 8.71E-08? | | |
| 1600 | 116.1? | 3.93? | .125? | 1.875? | 112.4? | 1.00E-05? | 7.60E-05? | 1.73E-03? | 1.31E-02? |
| | | | | | 119.2? | 9.25E-06? | 7.03E-05? | | |
| | | | | | 114.4? | 6.60E-06? | 5.02E-05? | | |
| 3200 | 111.2? | 3.14? | .698? | 4.135? | 111.7? | 5.20E-06? | 3.95E-05? | 2.00E-03? | 1.52E-02? |
| | | | | | 112.7? | 5.20E-06? | 3.95E-05? | | |
| | | | | | 109.7? | 5.02E-06? | 3.81E-05? | | |
| 5000 | 114.1? | 5.50? | .341? | 1.888? | 110.0? | 2.41E-06? | 1.84E-05? | 1.64E-03? | 1.25E-02? |
| | | | | | 112.0? | 1.47E-06? | 1.12E-05? | | |
| | | | | | 120.0? | 1.36E-06? | 1.04E-05? | | |
| 7000 | 114.6? | 4.79? | .044? | 2.860? | 114.0? | 7.85E-07? | 5.97E-06? | 9.96E-04? | 7.57E-03? |
| | | | | | 116.0? | 7.50E-07? | 5.70E-06? | | |
| | | | | | 122.0? | 7.33E-07? | 5.57E-06? | | |
| 12800 | 118.0? | 6.30? | -1.793? | 8.179? | 122.0? | 6.20E-07? | 4.72E-06? | 8.04E-04? | 6.11E-03? |
| | | | | | 117.0? | 4.53E-07? | 3.45E-06? | | |
| | | | | | 121.0? | 3.95E-07? | 3.00E-06? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1203029

SAMPLING 400M TO 12800M. SAMPLING AT ONLY ONE TOWER, BUT NO TRACER THEREON . NO ZNS ON 400M OR 800M ARCS. ZINC SULFIDE TRACER EMBRACED BY CROSSWIND EXTENT OF ARCS. FLUORESCEIN CROSSWIND DISTRIBUTIONS SEEM TO EXTEND OFF EDGES OF ARCS FREQUENTLY, BUT CONTAMINATION IS POSSIBILITY. NEITHER TRACER OBSERVED AT 12800M ARC.

TEST U89 SEPTEMBER 11, 1969 0116 TO 0148 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 3.6M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C1(E/Q) | C1(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | | | | 0. | 0. |
| 800 | 0.0 | 0.00 | 0.000 | 0.000 | | | | 0. | 0. |
| 1600 | 97.2 | 1.10 | -.884 | 3.870 | 97.6 | 3.86E-07 | 1.39E-06 | 2.60E-05 | 9.37E-05 |
| | | | | | 96.6 | 2.14E-07 | 7.69E-07 | | |
| | | | | | 98.6 | 1.88E-07 | 6.78E-07 | | |
| 3200 | 97.0 | 1.90 | .275 | 2.310 | 95.8 | 4.44E-07 | 1.60E-06 | 1.19E-04 | 4.27E-04 |
| | | | | | 98.8 | 4.34E-07 | 1.56E-06 | | |
| | | | | | 96.8 | 3.49E-07 | 1.26E-06 | | |
| 5000 | 99.5? | 2.33? | -5.785? | 38.902? | 100.0 | 5.88E-08 | 2.12E-07 | 1.07E-05? | 3.85E-05? |
| | | | | | 98.0 | 3.88E-09 | 1.40E-08 | | |
| | | | | | 94.0 | 1.76E-09 | 6.35E-09 | | |
| 7000 | 96.9? | 4.66? | -1.022? | 2.977? | 100.0 | 1.51E-07 | 5.44E-07 | 1.46E-04? | 5.25E-04? |
| | | | | | 98.0 | 1.51E-07 | 5.44E-07 | | |
| | | | | | 102.0 | 1.08E-07 | 3.88E-07 | | |
| 12800 | 0.0 | 0.00 | 0.000 | 0.000 | | | | 0. | 0. |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U89 SEPTEMBER 11, 1969 0118 TO 0148 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 3.0M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 92.9? | 13.94? | -1.632? | 4.341? | 98.0? | 2.65E-06? | 7.96E-06? | 1.16E-04? | 3.48E-04? |
| | | | | | 102.0? | 7.96E-07? | 2.39E-06? | | |
| | | | | | 62.0? | 6.63E-07? | 2.05E-06? | | |
| 800 | 100.6? | 3.56? | .775? | 3.866? | 99.1? | 5.08E-06? | 1.52E-05? | 2.93E-04? | 8.80E-04? |
| | | | | | 101.1? | 2.47E-06? | 7.42E-06? | | |
| | | | | | 108.8? | 8.75E-07? | 2.62E-06? | | |
| 1600 | 98.3? | 2.88? | -1.503? | 5.253? | 100.6 | 3.13E-06 | 9.38E-06 | 4.29E-04? | 1.29E-03? |
| | | | | | 98.6 | 2.90E-06 | 8.71E-06 | | |
| | | | | | 97.6 | 2.16E-06 | 6.47E-06 | | |
| 3200 | 93.6? | 5.85? | -1.880? | 6.450? | 95.8 | 2.43E-06 | 7.28E-06 | 7.62E-04? | 2.29E-03? |
| | | | | | 96.8 | 2.27E-06 | 6.82E-06 | | |
| | | | | | 94.8 | 1.57E-06 | 4.70E-06 | | |
| 5000 | 94.9? | 5.42? | -.120? | 4.350? | 100.0 | 2.81E-07 | 8.42E-07 | 2.11E-04? | 6.33E-04? |
| | | | | | 96.0 | 2.46E-07 | 7.38E-07 | | |
| | | | | | 94.0 | 1.62E-07 | 4.86E-07 | | |
| 7000 | 94.6? | 5.14? | -.285? | 1.988? | 90.0 | 4.30E-07 | 1.29E-06 | 3.89E-04? | 1.17E-03? |
| | | | | | 98.0 | 3.15E-07 | 9.46E-07 | | |
| | | | | | 100.0 | 2.41E-07 | 7.23E-07 | | |
| 12800 | 0.0 | 0.00 | 0.000 | 0.000 | | | | 0. | 0. |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1203031

GROUND LEVEL SAMPLING 400M TO 12800M; SAMPLING ON ONE TOWER AT 3200M. NO ZNS OBSERVED ON 400M, 800M OR 12800M ARCS. ZNS PLUME LIKELY OFF NORTH EDGE OF 7000M AND 12800M ARCS.
FLUORESCEIN DISPERSAL FOR ONLY 4 MIN. THUS, SIGNIFICANCE OF FLUORESCEIN MEASUREMENTS IS MINIMAL.

TEST 090 SEPTEMBER 12, 1969 0223 TO 0253 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 4.1M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 800 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 1600 | 108.2 | 2.89 | -.474 | 2.161 | 110.4 | 2.48E-07 | 1.02E-06 | 3.18E-05 | 1.30E-04 |
| | | | | | 104.5 | 2.02E-07 | 8.29E-07 | | |
| | | | | | 111.4 | 1.50E-07 | 6.16E-07 | | |
| 3200 | 107.9 | 4.53 | -1.299 | 4.739 | 110.7 | 7.23E-07 | 2.97E-06 | 2.58E-04 | 1.06E-03 |
| | | | | | 111.7 | 6.93E-07 | 2.84E-06 | | |
| | | | | | 109.7 | 5.47E-07 | 2.24E-06 | | |
| 5000 | 98.5? | 6.90? | -.246? | 2.940? | 100.0 | 2.05E-07 | 8.41E-07 | 1.24E-04? | 5.10E-04? |
| | | | | | 102.0 | 1.61E-07 | 6.62E-07 | | |
| | | | | | 94.0 | 1.24E-07 | 5.08E-07 | | |
| 7000 | 95.3X | 10.15X | -.964X | 2.211X | 102.0X | 2.26E-08X | 9.27E-08X | 8.03E-06X | 3.29E-05X |
| | | | | | 82.0X | 4.64E-09X | 1.90E-08X | | |
| | | | | | 76.0X | 4.52E-09X | 1.85E-08X | | |
| 12800 | 0.0 | 0.00 | 0.000 | 0.000 | | | | 0. | 0. |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 4.3M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 103.6X | 11.82X | -.016X | 1.592X | 98.0? | 1.17E-07?? | 5.04E-07?? | 1.56E-05X | 6.69E-05X |
| | | | | | 114.0? | 1.12E-07?? | 4.83E-07?? | | |
| | | | | | 90.0? | 8.48E-08? | 3.65E-07?? | | |
| 800 | 111.7X | 6.86X | -.045X | 2.281X | 106.9? | 2.15E-07?? | 9.24E-07?? | 2.12E-05X | 9.13E-05X |
| | | | | | 114.5? | 1.74E-07?? | 7.46E-07?? | | |
| | | | | | 122.1? | 1.07E-07?? | 4.62E-07?? | | |
| 1600 | 115.2? | 2.22? | -5.549? | 36.116? | 115.3? | 1.58E-05? | 6.77E-05? | 5.93E-04? | 2.55E-03? |
| | | | | | 116.3? | 3.43E-06? | 1.48E-05? | | |
| | | | | | 117.3? | 9.63E-07?? | 4.14E-06? | | |
| 3200 | 112.9X | 7.53X | -1.582X | 4.458X | 118.6? | 1.42E-06? | 6.11E-06? | 2.76E-04X | 1.19E-03X |
| | | | | | 115.6? | 8.55E-07?? | 3.67E-06? | | |
| | | | | | 117.6? | 6.00E-07?? | 2.58E-06? | | |
| 5000 | 111.1X | 9.63X | -1.317X | 4.390X | 118.0? | 9.32E-07?? | 4.01E-06? | 9.21E-04X | 3.96E-03X |
| | | | | | 114.0? | 8.60E-07?? | 3.70E-06? | | |
| | | | | | 112.0? | 7.64E-07?? | 3.28E-06? | | |
| 7000 | 93.6X | 10.24X | -.025X | 1.810X | 86.0X | 6.26E-08X | 2.69E-07X | 1.08E-04X | 4.63E-04X |
| | | | | | 92.0X | 4.09E-08X | 1.76E-07X | | |
| | | | | | 104.0X | 3.90E-08X | 1.68E-07X | | |
| 12800 | 93.8X | 1.83X | .117X | 2.407X | 94.0? | 1.30E-07?? | 5.59E-07?? | 1.13E-04X | 4.87E-04X |
| | | | | | 93.0? | 9.39E-08? | 4.04E-07?? | | |
| | | | | | 91.0? | 8.67E-08? | 3.73E-07?? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1203033

GROUND LEVEL SAMPLING 400M TO 12800M. ONE TOWER SAMPLING ONLY AT 3200M, 115.6 DEG.
NO ZINC SULFIDE OBSERVED ON 400M ARC. HEAVY DUST ON 12800M LEAVES UNCERTAINTIES IN ASSAY OF ZINC SULFIDE.
LARGE WIND DIRECTION SHEAR (BACKING) ABOVE 304 ELEVATION.

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 4.1M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 800 | 133.4 | 9.54 | .211 | 2.145 | 129.5 | 9.11E-07 | 3.74E-06 | 1.91E-04 | 7.82E-04 |
| | | | | | 127.7 | 7.89E-07 | 3.23E-06 | | |
| | | | | | 131.4 | 7.10E-07 | 2.91E-06 | | |
| 1600 | 131.1X | 8.47X | .282X | 2.975X | 130.6 | 2.05E-06 | 6.42E-06 | 7.63E-04X | 3.13E-03X |
| | | | | | 134.4 | 1.56E-06 | 6.40E-06 | | |
| | | | | | 129.7 | 1.52E-06 | 6.24E-06 | | |
| 3200 | 124.7X | 8.80X | .753X | 3.862X | 122.4 | 1.05E-06 | 4.30E-06 | 8.80E-04X | 3.61E-03X |
| | | | | | 120.5 | 9.40E-07 | 3.85E-06 | | |
| | | | | | 119.5 | 9.13E-07 | 3.74E-06 | | |
| 5000 | 121.6X | 8.13X | 1.003X | 4.019X | 122.0 | 1.93E-07 | 7.93E-07 | 2.26E-04X | 9.27E-04X |
| | | | | | 120.0 | 1.69E-07 | 6.94E-07 | | |
| | | | | | 116.0 | 1.65E-07 | 6.77E-07 | | |
| 7000 | 121.5? | 5.30? | .168? | 4.305? | 122.0 | 3.46E-07 | 1.42E-06 | 4.07E-04? | 1.67E-03? |
| | | | | | 120.0 | 2.64E-07 | 1.08E-06 | | |
| | | | | | 124.0 | 2.30E-07 | 9.42E-07 | | |
| 12800 | 117.4? | 10.32? | .665? | 4.233? | 110.0? | 3.07E-08? | 1.26E-07? | 8.56E-05? | 3.51E-04? |
| | | | | | 121.0? | 2.94E-08? | 1.21E-07? | | |
| | | | | | 122.0? | 2.83E-08? | 1.16E-07? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U90 SEPTEMBER 12, 1969 0223 TO 0227 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 4.3M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 103.6X | 11.82X | -.016X | 1.592X | 98.0? | 1.17E-07? | 5.04E-07? | 1.56E-05X | 6.69E-05X |
| | | | | | 114.0? | 1.12E-07? | 4.83E-07? | | |
| | | | | | 90.0? | 8.48E-08? | 3.65E-07? | | |
| 800 | 111.7X | 6.86X | -.045X | 2.281X | 106.9? | 2.15E-07? | 9.24E-07? | 2.12E-05X | 9.13E-05X |
| | | | | | 114.5? | 1.74E-07? | 7.46E-07? | | |
| | | | | | 122.1? | 1.07E-07? | 4.62E-07? | | |
| 1600 | 115.2? | 2.22? | -5.549? | 36.116? | 115.3? | 1.58E-05? | 6.77E-05? | 5.93E-04? | 2.55E-03? |
| | | | | | 116.3? | 3.43E-06? | 1.48E-05? | | |
| | | | | | 117.3? | 9.63E-07? | 4.14E-06? | | |
| 3200 | 112.9X | 7.53X | -1.582X | 4.458X | 118.6? | 1.42E-06? | 6.11E-06? | 2.76E-04X | 1.19E-03X |
| | | | | | 115.6? | 8.55E-07? | 3.67E-06? | | |
| | | | | | 117.6? | 6.00E-07? | 2.58E-06? | | |
| 5000 | 111.1X | 9.63X | -1.317X | 4.390X | 118.0? | 9.32E-07? | 4.01E-06? | 9.21E-04X | 3.96E-03X |
| | | | | | 114.0? | 8.60E-07? | 3.70E-06? | | |
| | | | | | 112.0? | 7.64E-07? | 3.28E-06? | | |
| 7000 | 93.6X | 10.24X | -.025X | 1.810X | 86.0X | 6.26E-08X | 2.69E-07X | 1.08E-04X | 4.63E-04X |
| | | | | | 92.0X | 4.09E-08X | 1.76E-07X | | |
| | | | | | 104.0X | 3.90E-08X | 1.68E-07X | | |
| 12800 | 93.8X | 1.83X | .117X | 2.407X | 94.0? | 1.30E-07? | 5.59E-07? | 1.13E-04X | 4.87E-04X |
| | | | | | 93.0? | 9.39E-08? | 4.04E-07? | | |
| | | | | | 91.0? | 8.67E-08? | 3.73E-07? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1203035

GROUND LEVEL SAMPLING 400M TO 12800M. ONE TOWER SAMPLING ONLY AT 3200M, 115.6 DEG.
NO ZINC SULFIDE OBSERVED ON 400M ARC. HEAVY DUST ON 12800M LEAVES UNCERTAINTIES IN ASSAY OF ZINC SULFIDE.
LARGE WIND DIRECTION SHEAR (BACKING) ABOVE 304 ELEVATION.

TEST 091 SEPTEMBER 24, 1969 0144 TO 0214 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 4.1M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 800 | 133.4 | 9.54 | .211 | 2.145 | 129.5 | 9.11E-07 | 3.74E-06 | 1.91E-04 | 7.82E-04 |
| | | | | | 127.7 | 7.89E-07 | 3.23E-06 | | |
| | | | | | 131.4 | 7.10E-07 | 2.91E-06 | | |
| 1600 | 131.1X | 8.47X | .282X | 2.975X | 130.6 | 2.05E-06 | 6.42E-06 | 7.63E-04X | 3.13E-03X |
| | | | | | 134.4 | 1.56E-06 | 6.40E-06 | | |
| | | | | | 129.7 | 1.52E-06 | 6.24E-06 | | |
| 3200 | 124.7X | 8.80X | .753X | 3.862X | 122.4 | 1.05E-06 | 4.30E-06 | 8.80E-04X | 3.61E-03X |
| | | | | | 120.5 | 9.40E-07 | 3.85E-06 | | |
| | | | | | 119.5 | 9.13E-07 | 3.74E-06 | | |
| 5000 | 121.6X | 8.13X | 1.003X | 4.019X | 122.0 | 1.93E-07 | 7.93E-07 | 2.26E-04X | 9.27E-04X |
| | | | | | 120.0 | 1.69E-07 | 6.94E-07 | | |
| | | | | | 116.0 | 1.65E-07 | 6.77E-07 | | |
| 7000 | 121.5? | 6.30? | .168? | 4.305? | 122.0 | 3.46E-07 | 1.42E-06 | 4.07E-04? | 1.67E-03? |
| | | | | | 120.0 | 2.64E-07 | 1.08E-06 | | |
| | | | | | 124.0 | 2.30E-07 | 9.42E-07 | | |
| 12800 | 117.4? | 10.32? | .665? | 4.233? | 110.0? | 3.07E-08? | 1.26E-07? | 8.56E-05? | 3.51E-04? |
| | | | | | 121.0? | 2.94E-08? | 1.21E-07? | | |
| | | | | | 122.0? | 2.83E-08? | 1.16E-07? | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



091 1203039

TEST U91 SEPTEMBER 24, 1969 0144 TO 0214 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 3.8M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 129.3 | 6.94 | -1.158 | 3.391 | 134.0 | 6.29E-07 | 2.39E-06 | 3.40E-05 | 1.29E-04 |
| | | | | | 130.0 | 2.01E-07 | 7.64E-07 | | |
| | | | | | 126.0 | 1.44E-07 | 5.49E-07 | | |
| 800 | 136.6 | 8.60 | -.512 | 2.826 | 140.6 | 3.07E-06 | 1.17E-05 | 6.76E-04 | 2.57E-03 |
| | | | | | 142.4 | 2.63E-06 | 9.98E-06 | | |
| | | | | | 136.9 | 2.25E-06 | 8.56E-06 | | |
| 1600 | 137.7 | 8.90 | .012 | 2.198 | 136.4 | 2.73E-06 | 1.04E-05 | 1.86E-03 | 7.05E-03 |
| | | | | | 131.5 | 2.65E-06 | 1.01E-05 | | |
| | | | | | 138.3 | 2.56E-06 | 9.73E-06 | | |
| 3200 | 133.6X | 9.01X | .021X | 2.147X | 140.1 | 1.14E-06 | 4.33E-06 | 1.53E-03X | 5.82E-03X |
| | | | | | 139.1 | 1.12E-06 | 4.26E-06 | | |
| | | | | | 125.4 | 1.10E-06 | 4.19E-06 | | |
| 5000 | 131.7X | 7.82X | .021X | 2.398X | 132.0 | 1.04E-06 | 3.93E-06 | 1.68E-03X | 6.39E-03X |
| | | | | | 128.0 | 9.53E-07 | 3.62E-06 | | |
| | | | | | 134.0 | 9.20E-07 | 3.50E-06 | | |
| 7000 | 128.4X | 6.83X | .360X | 2.286X | 124.0 | 8.76E-07 | 3.33E-06 | 1.16E-03X | 4.42E-03X |
| | | | | | 126.0 | 7.12E-07 | 2.71E-06 | | |
| | | | | | 122.0 | 5.63E-07 | 2.14E-06 | | |
| 12800 | 120.0 | 10.45 | .518 | 3.193 | 122.0 | 1.87E-07 | 7.12E-07 | 8.00E-04 | 3.04E-03 |
| | | | | | 119.0 | 1.82E-07 | 6.92E-07 | | |
| | | | | | 118.0 | 1.66E-07 | 6.33E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1283031

GROUND LEVEL SAMPLING 400M TO 12800M; WITH POSSIBLE EXCEPTION OF FLUORESCEIN AT 12800M, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THE TRACER. TRACER DISTRIBUTIONS EXTEND ABOVE TOP OF THE SINGLE SAMPLING TOWER. NO ZINC SULFIDE OBSERVED ON 400M, 800M OR 1600M ARCS.

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 111M
SAMPLER HT 1.5M U= 5.4M/SEC AT 111M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 800 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 1600 | 0.0 | 0.00 | 0.000 | 0.000 | 0.0 | 0.0 | 0.0 | 0. | 0. |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| | | | | | 0.0 | 0.0 | 0.0 | | |
| 3200 | 117.8 | 2.92 | 1.768 | 8.754 | 119.5 | 2.18E-07 | 1.18E-06 | 3.87E-05 | 2.09E-04 |
| | | | | | 114.6 | 1.26E-07 | 6.91E-07 | | |
| | | | | | 116.6 | 9.53E-08 | 5.15E-07 | | |
| 5000 | 119.0 | 3.24 | -.613 | 2.910 | 122.0 | 1.17E-07 | 6.34E-07 | 5.41E-05 | 2.92E-04 |
| | | | | | 120.0 | 6.58E-08 | 3.55E-07 | | |
| | | | | | 118.0 | 4.59E-08 | 2.48E-07 | | |
| 7000 | 118.9 | 2.19 | -.372 | 2.713 | 118.0 | 2.37E-07 | 1.28E-06 | 1.84E-04 | 9.94E-04 |
| | | | | | 120.0 | 2.34E-07 | 1.26E-06 | | |
| | | | | | 122.0 | 1.28E-07 | 6.93E-07 | | |
| 12800 | 113.2 | 3.48 | .530 | 3.583 | 114.0 | 8.65E-09 | 4.67E-08 | 1.45E-05 | 7.85E-05 |
| | | | | | 108.0 | 7.60E-09 | 4.10E-08 | | |
| | | | | | 113.0 | 7.60E-09 | 4.10E-08 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST U92 SEPTEMBER 26, 1969 0048 TO 0118 PST
FLUORESCEIN RELEASE FROM ELEVATION OF 56M
SAMPLER HT 1.5M U= 4.7M/SEC AT 56M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 400 | 104.5 | 3.48 | -.500 | 2.668 | 106.0 | 2.50E-08 | 1.17E-07 | 1.34E-06 | 6.29E-06 |
| | | | | | 102.0 | 1.07E-08 | 5.05E-08 | | |
| | | | | | 98.0 | 6.34E-09 | 2.98E-08 | | |
| 800 | 110.1 | 1.54 | 1.476 | 5.148 | 108.8 | 7.61E-09 | 3.57E-08 | 4.44E-07 | 2.09E-06 |
| | | | | | 110.7 | 7.38E-09 | 3.47E-08 | | |
| | | | | | 114.5 | 1.19E-09 | 5.61E-09 | | |
| 1600 | 104.0 | 4.29 | -.402 | 2.904 | 102.6 | 1.34E-07 | 6.28E-07 | 3.67E-05 | 1.73E-04 |
| | | | | | 104.5 | 1.25E-07 | 5.87E-07 | | |
| | | | | | 103.6 | 1.16E-07 | 5.46E-07 | | |
| 3200 | 107.9 | 3.71 | -1.089 | 4.369 | 110.7 | 7.88E-07 | 3.71E-06 | 3.20E-04 | 1.50E-03 |
| | | | | | 109.7 | 7.19E-07 | 3.38E-06 | | |
| | | | | | 111.7 | 7.19E-07 | 3.38E-06 | | |
| 5000 | 107.1 | 2.93 | -.211 | 3.762 | 106.0 | 1.26E-06 | 5.91E-06 | 7.48E-04 | 3.51E-03 |
| | | | | | 110.0 | 1.14E-06 | 5.34E-06 | | |
| | | | | | 108.0 | 8.52E-07 | 4.00E-06 | | |
| 7000 | 110.4 | 3.81 | -.645 | 3.998 | 110.0 | 9.01E-07 | 4.23E-06 | 7.86E-04 | 3.69E-03 |
| | | | | | 112.0 | 6.82E-07 | 3.20E-06 | | |
| | | | | | 108.0 | 4.87E-07 | 2.29E-06 | | |
| 12800 | 104.3? | 7.36? | 1.025? | 4.310? | 102.0 | 6.89E-08 | 3.24E-07 | 1.66E-04? | 7.79E-04? |
| | | | | | 99.0 | 6.50E-08 | 3.05E-07 | | |
| | | | | | 100.0 | 6.50E-08 | 3.05E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1203039

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS.
ALTHOUGH TRACERS TRUNCATED AT TOPS OF TOWERS, EXTRAPOLATION IS DISTINCT POSSIBILITY ON THIS TEST.
RELATIVELY SMALL AMOUNT OF RHODAMINE DISPERSED LEAVES CONSIDERABLE UNCERTAINTIESIN INDIVIDUAL EXPOSURE VALUES.

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.8M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 111.8 | 7.29 | .561 | 3.618 | 112.0 | 7.06E-06 | 4.10E-05 | 3.46E-04 | 2.01E-03 |
| | | | | | 114.0 | 6.55E-06 | 3.80E-05 | | |
| | | | | | 110.0 | 5.90E-06 | 3.42E-05 | | |
| 400 | 113.9 | 7.76 | -.090 | 2.800 | 114.0 | 2.32E-06 | 1.34E-05 | 2.60E-04 | 1.51E-03 |
| | | | | | 118.0 | 1.72E-06 | 9.96E-06 | | |
| | | | | | 106.0 | 1.15E-06 | 6.67E-06 | | |
| 800 | 114.6 | 6.91 | -.175 | 2.349 | 118.3 | 1.60E-06 | 9.30E-06 | 4.06E-04 | 2.35E-03 |
| | | | | | 114.5 | 1.46E-06 | 8.50E-06 | | |
| | | | | | 122.1 | 1.42E-06 | 8.24E-06 | | |
| 1200 | 114.1 | 6.40 | .104 | 2.685 | 116.0 | 8.16E-07 | 4.73E-06 | 2.40E-04 | 1.39E-03 |
| | | | | | 112.0 | 7.26E-07 | 4.21E-06 | | |
| | | | | | 108.0 | 6.47E-07 | 3.75E-06 | | |
| 1600 | 114.8 | 6.83 | -.072 | 2.333 | 109.5 | 4.11E-07 | 2.38E-06 | 1.60E-04 | 9.26E-04 |
| | | | | | 116.3 | 4.02E-07 | 2.33E-06 | | |
| | | | | | 117.3 | 3.39E-07 | 1.97E-06 | | |
| 2200 | 116.1 | 6.82 | -.037 | 2.207 | 110.0 | 1.36E-07 | 7.88E-07 | 6.69E-05 | 3.88E-04 |
| | | | | | 116.0 | 1.18E-07 | 6.82E-07 | | |
| | | | | | 124.0 | 8.98E-08 | 5.21E-07 | | |
| 3200 | 114.5 | 6.22 | -.067 | 2.373 | 113.7 | 1.43E-07 | 8.32E-07 | 1.17E-04 | 6.77E-04 |
| | | | | | 109.7 | 1.30E-07 | 7.52E-07 | | |
| | | | | | 117.6 | 1.24E-07 | 7.18E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



V1 1203040

TEST V1 OCTOBER 26, 1972 0930 TO 1000 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 5.8M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/C | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 110.5 | 6.69 | .287 | 4.045 | 106.0 | 5.18E-06 | 3.00E-05 | 1.60E-04 | 9.30E-04 |
| | | | | | 110.0 | 2.72E-06 | 1.58E-05 | | |
| | | | | | 112.0 | 2.51E-06 | 1.46E-05 | | |
| 400 | 112.6 | 7.87 | -.121 | 2.146 | 118.0 | 3.93E-06 | 2.28E-05 | 5.68E-04 | 3.29E-03 |
| | | | | | 114.0 | 3.62E-06 | 2.10E-05 | | |
| | | | | | 106.0 | 3.21E-06 | 1.86E-05 | | |
| 800 | 113.1 | 7.11 | .039 | 2.087 | 114.5 | 1.15E-06 | 6.69E-06 | 2.79E-04 | 1.62E-03 |
| | | | | | 108.8 | 1.09E-06 | 6.29E-06 | | |
| | | | | | 106.9 | 9.47E-07 | 5.49E-06 | | |
| 1200 | 114.2 | 7.12 | -.133 | 2.271 | 120.0 | 6.00E-07 | 3.48E-06 | 2.10E-04 | 1.22E-03 |
| | | | | | 118.0 | 5.65E-07 | 3.28E-06 | | |
| | | | | | 114.0 | 4.96E-07 | 2.88E-06 | | |
| 1600 | 114.7 | 8.46 | -.160 | 2.074 | 122.1 | 3.52E-07 | 2.04E-06 | 1.24E-04 | 7.20E-04 |
| | | | | | 121.2 | 2.25E-07 | 1.30E-06 | | |
| | | | | | 115.3 | 2.04E-07 | 1.19E-06 | | |
| 2200 | 115.7 | 6.33 | -.105 | 2.124 | 118.0 | 2.72E-07 | 1.58E-06 | 1.36E-04 | 7.87E-04 |
| | | | | | 116.0 | 2.00E-07 | 1.16E-06 | | |
| | | | | | 120.0 | 1.70E-07 | 9.83E-07 | | |
| 3200 | 118.5 | 7.14 | -.275 | 2.349 | 111.7 | 6.16E-08 | 3.57E-07 | 4.12E-05 | 2.39E-04 |
| | | | | | 119.5 | 5.55E-08 | 3.22E-07 | | |
| | | | | | 122.4 | 5.24E-08 | 3.04E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. FOLLOWING SOME EXTRAPOLATION AT SOUTH EDGE. ALL ARCS EMBRACE THE CROSSWIND EXTENT OF TRACER DISTRIBUTIONS. 13 OF 20 TOWERS "HIT" BY TRACERS; ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOP. ALTHO NO RAIN DURING TRACER RELEASE, PRIOR RAIN LEFT FILTERS WET; EFFECT, IF ANY, UNKNOWN.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 135.2 | 11.43 | -.229 | 2.150 | 144.0 | 2.21E-05 | 9.71E-05 | 1.21E-03 | 5.31E-03 |
| | | | | | 132.0 | 1.28E-05 | 5.61E-05 | | |
| | | | | | 130.0 | 1.17E-05 | 5.13E-05 | | |
| 400 | 136.0 | 10.89 | -.180 | 2.016 | 146.0 | 1.79E-05 | 7.86E-05 | 3.25E-03 | 1.43E-02 |
| | | | | | 142.0 | 1.76E-05 | 7.73E-05 | | |
| | | | | | 130.0 | 1.47E-05 | 6.45E-05 | | |
| 800 | 137.6 | 10.19 | -.367 | 2.026 | 144.2 | 1.00E-05 | 4.42E-05 | 2.81E-03 | 1.24E-02 |
| | | | | | 147.8 | 8.05E-06 | 3.54E-05 | | |
| | | | | | 146.0 | 7.28E-06 | 3.20E-05 | | |
| 1200 | 136.7 | 9.51 | -.106 | 2.080 | 144.0 | 4.19E-06 | 1.85E-05 | 1.77E-03 | 7.81E-03 |
| | | | | | 138.0 | 3.45E-06 | 1.52E-05 | | |
| | | | | | 126.0 | 3.24E-06 | 1.43E-05 | | |
| 1600 | 138.6 | 9.05 | -.168 | 2.159 | 144.1 | 1.96E-06 | 8.61E-06 | 1.28E-03 | 5.62E-03 |
| | | | | | 146.0 | 1.96E-06 | 8.60E-06 | | |
| | | | | | 147.9 | 1.89E-06 | 8.31E-06 | | |
| 2200 | 139.0 | 8.75 | -.181 | 2.127 | 138.0 | 1.28E-06 | 5.64E-06 | 1.08E-03 | 4.75E-03 |
| | | | | | 128.0 | 1.27E-06 | 5.60E-06 | | |
| | | | | | 140.0 | 1.26E-06 | 5.53E-06 | | |
| 3200 | 140.1 | 8.94 | -.244 | 1.816 | 148.9 | 1.22E-06 | 5.35E-06 | 9.82E-04 | 4.32E-03 |
| | | | | | 147.9 | 1.07E-06 | 4.70E-06 | | |
| | | | | | 146.9 | 9.26E-07 | 4.07E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES C(E/Q) | C(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 130.1 | 10.67 | .134 | 1.947 | 122.0 | 5.64E-06 | 2.48E-05 | 4.01E-04 | 1.77E-03 |
| | | | | | 126.0 | 5.64E-06 | 2.48E-05 | | |
| | | | | | 144.0 | 3.69E-06 | 1.62E-05 | | |
| 400 | 134.4 | 10.75 | -.058 | 1.853 | 146.0 | 1.22E-05 | 5.38E-05 | 2.24E-03 | 9.84E-03 |
| | | | | | 130.0 | 1.13E-05 | 4.99E-05 | | |
| | | | | | 142.0 | 8.98E-06 | 3.95E-05 | | |
| 800 | 135.2 | 10.18 | -.038 | 1.842 | 144.2 | 1.01E-05 | 4.43E-05 | 2.92E-03 | 1.28E-02 |
| | | | | | 146.0 | 7.63E-06 | 3.36E-05 | | |
| | | | | | 124.0 | 7.28E-06 | 3.20E-05 | | |
| 1200 | 136.6 | 9.77 | -.076 | 1.901 | 128.0 | 3.87E-06 | 1.70E-05 | 1.76E-03 | 7.75E-03 |
| | | | | | 148.0 | 3.69E-06 | 1.62E-05 | | |
| | | | | | 130.0 | 3.43E-06 | 1.51E-05 | | |
| 1600 | 138.3 | 9.09 | -.279 | 2.073 | 143.1 | 2.50E-06 | 1.10E-05 | 1.37E-03 | 6.03E-03 |
| | | | | | 144.1 | 2.50E-06 | 1.10E-05 | | |
| | | | | | 146.9 | 2.06E-06 | 9.05E-06 | | |
| 2200 | 138.5 | 8.45 | -.140 | 2.125 | 142.0 | 1.76E-06 | 7.73E-06 | 1.20E-03 | 5.30E-03 |
| | | | | | 138.0 | 1.44E-06 | 6.36E-06 | | |
| | | | | | 140.0 | 1.30E-06 | 5.74E-06 | | |
| 3200 | 140.1 | 8.41 | -.347 | 1.872 | 148.9 | 1.10E-06 | 4.85E-06 | 9.01E-04 | 3.96E-03 |
| | | | | | 147.9 | 1.09E-06 | 4.78E-06 | | |
| | | | | | 146.0 | 8.83E-07 | 3.89E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1205043

KR-85 SAMPLING AT 200, 800 AND 1600M; TOWER SAMPLING AT 200 AND 800M. ALL CROSSWIND DISTRIBUTIONS TRUNCATED ON SOUTH. SIX OF TEN TOWERS "HIT", BUT DISTRIBUTIONS TRUNCATED AT TOP; MAY HAVE BEEN TRACER ON TOWER AT 800M, 112.6 DEG, BUT VERY NEAR BACKGROUND. LOW VOLTAGES ON MANY 800M SENSORS MAY HAVELEAD TO UNDERESTIMATES OF X/Q.

TEST V2 NOVEMBER 9, 1972 1030 TO 1100 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 131.3X | 10.72X | -.123X | 1.944X | 128.0? | 5.80E-06? | 2.55E-05? | 5.27E-04X | 2.32E-03X |
| | | | | | 144.0? | 5.15E-06? | 2.26E-05? | | |
| | | | | | 122.0? | 5.11E-06? | 2.25E-05? | | |
| 800X | 128.4X | 6.86X | -.058X | 1.650X | 125.8X | 1.98E-06X | 8.72E-06X | 3.53E-04X | 1.55E-03X |
| | | | | | 122.1X | 1.69E-06X | 7.42E-06X | | |
| | | | | | 133.2X | 1.67E-06X | 7.34E-06X | | |
| 1600X | 122.1X | 3.09X | -1.181X | 3.553X | 125.0X | 2.22E-06X | 9.76E-06X | 2.02E-04X | 8.90E-04X |
| | | | | | 123.1X | 1.23E-06X | 5.42E-06X | | |
| | | | | | 121.2X | 9.29E-07X | 4.09E-06X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

1203045

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. MOST ARCS TRUNCATED ON SOUTH END, BUT CENTERLINE ALWAYS OBSERVED. MOST VERTICAL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS.

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 140.3X | 9.24X | -.284X | 2.670X | 142.0 | 3.56E-05 | 1.50E-04 | 2.44E-03X | 1.02E-02X |
| | | | | | 144.0 | 3.46E-05 | 1.45E-04 | | |
| | | | | | 140.0 | 3.42E-05 | 1.44E-04 | | |
| 400 | 140.7X | 6.96X | -.293X | 2.752X | 138.0 | 2.37E-05 | 9.95E-05 | 2.48E-03X | 1.04E-02X |
| | | | | | 146.0 | 1.85E-05 | 7.75E-05 | | |
| | | | | | 142.0 | 1.57E-05 | 6.61E-05 | | |
| 800 | 143.0? | 7.37? | .143? | 2.394? | 136.8 | 5.78E-06 | 2.43E-05 | 1.42E-03? | 5.95E-03? |
| | | | | | 147.8 | 4.89E-06 | 2.05E-05 | | |
| | | | | | 144.2 | 4.72E-06 | 1.98E-05 | | |
| 1200 | 142.0X | 6.71X | .462X | 2.417X | 136.0 | 1.50E-06 | 6.32E-06 | 4.27E-04X | 1.79E-03X |
| | | | | | 138.0 | 1.48E-06 | 6.23E-06 | | |
| | | | | | 142.0 | 1.18E-06 | 4.94E-06 | | |
| 1600 | 142.1X | 6.07X | .179X | 2.377X | 138.3 | 1.11E-06 | 4.68E-06 | 5.03E-04X | 2.11E-03X |
| | | | | | 144.1 | 1.08E-06 | 4.52E-06 | | |
| | | | | | 140.2 | 1.06E-06 | 4.44E-06 | | |
| 2200 | 143.4X | 6.24X | .358X | 2.508X | 140.0 | 3.66E-07 | 1.54E-06 | 2.04E-04X | 8.58E-04X |
| | | | | | 138.0 | 3.39E-07 | 1.42E-06 | | |
| | | | | | 142.0 | 3.18E-07 | 1.34E-06 | | |
| 3200 | 142.7 | 5.28 | -.174 | 2.383 | 143.0 | 2.15E-07 | 9.05E-07 | 1.53E-04 | 6.41E-04 |
| | | | | | 139.1 | 1.87E-07 | 7.85E-07 | | |
| | | | | | 144.0 | 1.81E-07 | 7.62E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



V3 1205046

TEST V3 NOVEMBER 16, 1972 0955 TO 1025 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 140.1X | 9.87X | -.384X | 2.500X | 146.0 | 1.46E-05 | 6.12E-05 | 9.86E-04X | 4.14E-03X |
| | | | | | 140.0 | 1.39E-05 | 5.82E-05 | | |
| | | | | | 138.4 | 1.21E-05 | 5.07E-05 | | |
| 400 | 140.9X | 6.96X | -.365X | 2.765X | 142.0 | 1.96E-05 | 8.25E-05 | 2.45E-03X | 1.03E-02X |
| | | | | | 146.0 | 1.93E-05 | 8.12E-05 | | |
| | | | | | 138.0 | 1.68E-05 | 7.07E-05 | | |
| 800 | 143.8? | 7.18? | .001? | 2.564? | 146.0 | 4.20E-06 | 1.76E-05 | 1.08E-03? | 4.54E-03? |
| | | | | | 144.2 | 4.10E-06 | 1.72E-05 | | |
| | | | | | 147.8 | 4.10E-06 | 1.72E-05 | | |
| 1200 | 143.4X | 6.31X | .153X | 2.437X | 144.0 | 2.77E-06 | 1.17E-05 | 8.11E-04X | 3.41E-03X |
| | | | | | 146.0 | 2.08E-06 | 8.73E-06 | | |
| | | | | | 140.0 | 2.02E-06 | 8.49E-06 | | |
| 1600 | 142.7X | 5.82X | .120X | 2.372X | 144.1 | 1.06E-06 | 4.44E-06 | 4.56E-04X | 1.91E-03X |
| | | | | | 146.9 | 1.06E-06 | 4.44E-06 | | |
| | | | | | 141.2 | 9.20E-07 | 3.86E-06 | | |
| 2200 | 143.5X | 5.57X | .312X | 2.617X | 142.0 | 6.22E-07 | 2.61E-06 | 3.16E-04X | 1.33E-03X |
| | | | | | 144.0 | 5.70E-07 | 2.39E-06 | | |
| | | | | | 140.0 | 5.60E-07 | 2.35E-06 | | |
| 3200 | 143.0 | 4.58 | -.182 | 2.465 | 143.0 | 2.19E-07 | 9.19E-07 | 1.45E-04 | 6.10E-04 |
| | | | | | 144.0 | 2.16E-07 | 9.06E-07 | | |
| | | | | | 146.0 | 1.91E-07 | 8.03E-07 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1203047

GROUND LEVEL AND TOWER SAMPLING 200M TO 1600M - WITH ADDITIONAL TWO TOWERS SAMPLING AT 3200M.
ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER. TOWER SAMPLES TRUNCATED AT TOP. ABOUT 9 CM SNOW DEPTH ON GROUND DURING EXPERIMENT. THERMALLY STABLE IN LOWEST 6M, BUT NEUTRAL ABOVE.

TEST V4 DECEMBER 12, 1972 1049 TO 1120 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 2.6M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION | | | | THREE MAXIMUM EXPOSURES | | | CROSSWIND INTEGRATED VALUES | |
|---|---|---|---|---|---|---|---|---|---|
| | MEAN | STAND DEV | COEFFICIENT SKEW | KURT | AZIMUTH | E/Q | EU/Q | CI(E/Q) | CI(EU/Q) |
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 132.7 | 5.14 | 2.042 | 8.701 | 130.0 | 6.90E-06 | 1.79E-05 | 1.12E-04 | 2.91E-04 |
| | | | | | 134.0 | 3.00E-06 | 7.80E-06 | | |
| | | | | | 132.0 | 1.70E-06 | 4.41E-06 | | |
| 800 | 137.1 | 7.62 | .057 | 1.869 | 138.7 | 1.94E-05 | 5.05E-05 | 3.64E-03 | 9.46E-03 |
| | | | | | 129.5 | 1.22E-05 | 3.16E-05 | | |
| | | | | | 127.7 | 1.20E-05 | 3.13E-05 | | |
| 1600 | 136.7 | 6.64 | -.536 | 2.935 | 138.3 | 1.19E-05 | 3.10E-05 | 3.21E-03 | 8.34E-03 |
| | | | | | 137.3 | 1.07E-05 | 2.79E-05 | | |
| | | | | | 140.2 | 8.28E-06 | 2.15E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V4 DECEMBER 12, 1972 1049 TO 1118 PST
RHODAMINE B RELEASE FROM ELEVATION OF 25M
SAMPLER HT 1.5M U= 2.6M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/C | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 132.9X | 5.96X | 1.283X | 6.652X | 134.0? | 1.29E-05? | 3.36E-05? | 2.00E-04X | 5.19E-04X |
| | | | | | 130.0? | 9.67E-06? | 2.51E-05? | | |
| | | | | | 150.0? | 2.17E-06? | 5.64E-06? | | |
| 900 | 137.1 | 7.21 | .050 | 2.007 | 138.7 | 2.62E-05 | 6.62E-05 | 4.61E-03 | 1.20E-02 |
| | | | | | 129.5 | 1.63E-05 | 4.38E-05 | | |
| | | | | | 140.6 | 1.53E-05 | 3.97E-05 | | |
| 1600 | 136.9 | 6.75 | -.284 | 2.347 | 138.3 | 1.32E-05 | 3.42E-05 | 3.65E-03 | 9.49E-03 |
| | | | | | 137.3 | 1.13E-05 | 2.95E-05 | | |
| | | | | | 140.2 | 9.27E-06 | 2.41E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.





1203049

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND EXTENT OF DISTRIBUTION. 14 TOWERS "HIT" BY TRACER; ALTHOUGH DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS, EXTRAPOLATION WOULD BE REASONABLE. VERTICAL CROSS SECTIONS THROUGH TOWER ARCS SHOWS SIGNIFICANT DIRECTION SHEAR OF TRACERS WITH HT.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.3M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION | | | | THREE MAXIMUM EXPOSURES | | | CROSSWIND INTEGRATED VALUES | |
|---|---|---|---|---|---|---|---|---|---|
| | MEAN | STAND DEV | COEFFICIENT SKEW | KURT | AZIMUTH | E/Q | EU/Q | CI(E/Q) | CI(EU/Q) |
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 102.5 | 6.67 | -.057 | 2.666 | 104.0 | 2.03E-06 | 8.71E-06 | 9.72E-05 | 4.18E-04 |
| | | | | | 106.0 | 1.91E-06 | 8.21E-06 | | |
| | | | | | 96.0 | 1.43E-06 | 6.14E-06 | | |
| 400 | 101.6 | 6.54 | -.081 | 2.554 | 98.0 | 4.72E-06 | 2.03E-05 | 3.86E-04 | 1.66E-03 |
| | | | | | 110.0 | 2.68E-06 | 1.15E-05 | | |
| | | | | | 102.0 | 2.27E-06 | 9.74E-06 | | |
| 800 | 101.5 | 6.03 | -.532 | 2.851 | 103.0 | 9.49E-06 | 4.08E-05 | 1.84E-03 | 7.93E-03 |
| | | | | | 105.0 | 8.58E-06 | 3.69E-05 | | |
| | | | | | 106.9 | 8.04E-06 | 3.46E-05 | | |
| 1200 | 100.7 | 5.92 | -.012 | 2.710 | 102.0 | 6.77E-06 | 2.91E-05 | 1.67E-03 | 7.16E-03 |
| | | | | | 100.0 | 5.24E-06 | 2.25E-05 | | |
| | | | | | 98.0 | 4.81E-06 | 2.07E-05 | | |
| 1600 | 102.3 | 5.93 | -.029 | 2.466 | 101.6 | 4.28E-06 | 1.84E-05 | 1.40E-03 | 6.00E-03 |
| | | | | | 99.6 | 4.11E-06 | 1.77E-05 | | |
| | | | | | 104.5 | 3.57E-06 | 1.54E-05 | | |
| 3200 | 109.8 | 4.49 | -.508 | 2.963 | 108.8 | 3.42E-06 | 1.47E-05 | 1.85E-03 | 7.96E-03 |
| | | | | | 109.7 | 3.33E-06 | 1.43E-05 | | |
| | | | | | 111.7 | 3.06E-06 | 1.31E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.3M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 101.8 | 6.78 | .370 | 2.908 | 100.0 | 1.26E-06 | 5.42E-06 | 5.35E-05 | 2.30E-04 |
| | | | | | 98.0 | 9.54E-07 | 4.10E-06 | | |
| | | | | | 102.0 | 8.09E-07 | 3.48E-06 | | |
| 400 | 98.9 | 6.65 | .018 | 2.536 | 98.0 | 3.93E-06 | 1.69E-05 | 4.92E-04 | 2.12E-03 |
| | | | | | 102.0 | 3.40E-06 | 1.46E-05 | | |
| | | | | | 94.0 | 3.19E-06 | 1.37E-05 | | |
| 800 | 100.0 | 6.57 | -.282 | 2.360 | 103.0 | 6.19E-06 | 2.66E-05 | 1.58E-03 | 6.78E-03 |
| | | | | | 101.1 | 6.02E-06 | 2.59E-05 | | |
| | | | | | 105.0 | 6.02E-06 | 2.59E-05 | | |
| 1200 | 99.7 | 6.23 | -.067 | 2.671 | 102.0 | 4.01E-06 | 1.72E-05 | 1.25E-03 | 5.36E-03 |
| | | | | | 100.0 | 3.91E-06 | 1.68E-05 | | |
| | | | | | 98.0 | 3.22E-06 | 1.39E-05 | | |
| 1600 | 101.5 | 6.24 | -.083 | 2.356 | 102.6 | 3.97E-06 | 1.71E-05 | 1.66E-03 | 7.16E-03 |
| | | | | | 103.6 | 3.85E-06 | 1.66E-05 | | |
| | | | | | 101.6 | 3.51E-06 | 1.51E-05 | | |
| 3200 | 108.0 | 5.15 | -.195 | 2.299 | 106.8 | 1.59E-06 | 6.82E-06 | 1.15E-03 | 4.94E-03 |
| | | | | | 111.7 | 1.59E-06 | 6.82E-06 | | |
| | | | | | 105.8 | 1.53E-06 | 6.60E-06 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



120031

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; TOWER SAMPLING ONLY AT 200M AND 800M. ALL THREE "GROUND-LEVEL" ARCS TRUNCATED ON NORTH. ALTHOUGH 6 OF 10 OPERATING TOWERS "HIT" BY KRYPTON, TRACER DISTRIBUTIONS ARE TRUNCATED AT TOPS.

TEST V5 SEPTEMBER 5, 1973 0501 TO 0531 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.3M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 104.2X | 5.88X | -.326X | 2.307X | 104.0 | 2.73E-06 | 1.17E-05 | 8.99E-05X | 3.87E-04X |
| | | | | | 108.0 | 2.02E-06 | 8.67E-06 | | |
| | | | | | 98.0 | 1.87E-06 | 8.02E-06 | | |
| 800 | 106.7X | 3.86X | 1.179X | 5.054X | 106.9X | 1.04E-05? | 4.45E-05? | 1.22E-03X | 5.24E-03X |
| | | | | | 105.0? | 8.67E-06? | 3.73E-05? | | |
| | | | | | 103.0? | 8.64E-06? | 3.71E-05? | | |
| 1600 | 112.9X | 2.42X | .929X | 3.199X | 110.4X | 1.84E-06X | 7.93E-06X | 2.03E-04X | 8.74E-04X |
| | | | | | 111.4X | 1.30E-06X | 5.60E-06X | | |
| | | | | | 113.4X | 1.19E-06X | 5.10E-06X | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

1203653

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ALL ARCS EMBRACE CROSSWIND DISTRIBUTION OF TRACER. TOWERS TRUNCATE TOP OF VERTICAL DISTRIBUTION, BUT EXTRAPOLATION WOULD NOT BE UNREASONABLE.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 6.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 117.8 | 4.29 | .249 | 2.316 | 114.0 | 6.50E-06 | 4.16E-05 | 2.60E-04 | 1.67E-03 |
| | | | | | 116.0 | 6.37E-06 | 4.07E-05 | | |
| | | | | | 118.0 | 5.57E-06 | 3.57E-05 | | |
| 400 | 118.5 | 4.65 | .165 | 2.753 | 114.0 | 5.48E-06 | 3.51E-05 | 4.19E-04 | 2.68E-03 |
| | | | | | 122.0 | 4.49E-06 | 2.87E-05 | | |
| | | | | | 118.0 | 2.70E-06 | 1.73E-05 | | |
| 800 | 119.1 | 3.90 | .215 | 2.104 | 116.4 | 1.53E-05 | 9.80E-05 | 2.31E-03 | 1.48E-02 |
| | | | | | 118.3 | 1.50E-05 | 9.62E-05 | | |
| | | | | | 114.5 | 1.20E-05 | 7.70E-05 | | |
| 1200 | 118.8 | 3.45 | .292 | 2.204 | 118.0 | 1.24E-05 | 7.93E-05 | 2.27E-03 | 1.45E-02 |
| | | | | | 116.0 | 1.21E-05 | 7.72E-05 | | |
| | | | | | 122.0 | 7.62E-06 | 4.88E-05 | | |
| 1600 | 119.1 | 3.27 | .223 | 2.100 | 117.3 | 1.12E-05 | 7.16E-05 | 2.39E-03 | 1.53E-02 |
| | | | | | 118.2 | 9.34E-06 | 5.98E-05 | | |
| | | | | | 115.3 | 8.79E-06 | 5.63E-05 | | |
| 3200 | 118.8 | 2.70 | .036 | 2.185 | 118.6 | 4.19E-06 | 2.68E-05 | 1.88E-03 | 1.20E-02 |
| | | | | | 116.6 | 3.95E-06 | 2.53E-05 | | |
| | | | | | 120.5 | 3.89E-06 | 2.49E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
RHODAMINE B RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 6.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 120.0 | 4.32 | -.096 | 2.278 | 122.0 | 6.31E-07 | 4.04E-06 | 2.37E-05 | 1.52E-04 |
| | | | | | 124.0 | 5.41E-07 | 3.46E-06 | | |
| | | | | | 116.0 | 5.27E-07 | 3.37E-06 | | |
| 800 | 119.3 | 3.83 | .142 | 2.094 | 118.3 | 9.89E-06 | 6.33E-05 | 1.23E-03 | 7.89E-03 |
| | | | | | 114.5 | 9.67E-06 | 6.19E-05 | | |
| | | | | | 120.2 | 6.41E-06 | 4.10E-05 | | |
| 1200 | 119.8 | 4.07 | -.404 | 1.918 | 114.0 | 6.92E-06 | 4.43E-05 | 1.35E-03 | 8.62E-03 |
| | | | | | 120.0 | 6.81E-06 | 4.36E-05 | | |
| | | | | | 122.0 | 6.81E-06 | 4.36E-05 | | |
| 1600 | 118.8 | 3.32 | .365 | 2.117 | 116.3 | 9.14E-06 | 5.85E-05 | 2.08E-03 | 1.33E-02 |
| | | | | | 117.3 | 8.85E-06 | 5.66E-05 | | |
| | | | | | 115.3 | 8.42E-06 | 5.39E-05 | | |
| 3200 | 118.2 | 2.62 | .254 | 2.295 | 116.6 | 4.98E-06 | 3.19E-05 | 2.03E-03 | 1.30E-02 |
| | | | | | 117.6 | 4.72E-06 | 3.02E-05 | | |
| | | | | | 115.6 | 4.59E-06 | 2.94E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

KRYPTON-85 SAMPLING AT 200M, 800M AND 1600M ONLY; TOWER SAMPLING AT 200M AND 800M ONLY. BOTH 200M AND 800M "GROUND-LEVEL" ARCS EMBRACE CROSSWIND EXTENT OF TRACER (AS DOES 1600M ARC AFTER MODEST EXTRAPOLATION). THREE MIDDLE TOWERS AT BOTH 200M AND 800M INTERCEPT TRACER; PEAK CONCENTRATION SAMPLED, BUT TRUNCATION AT TOP.

TEST V6 SEPTEMBER 13, 1973 0516 TO 0546 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 6.4M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 117.3 | 5.74 | -.000 | 2.516 | 116.0 | 2.29E-06 | 1.47E-05 | 1.22E-04 | 7.80E-04 |
| | | | | | 114.0 | 2.26E-06 | 1.45E-05 | | |
| | | | | | 122.0 | 2.24E-06 | 1.43E-05 | | |
| 800 | 119.1 | 4.21 | .150 | 2.608 | 118.3 | 1.15E-05 | 7.38E-05 | 1.91E-03 | 1.22E-02 |
| | | | | | 116.4? | 1.05E-05? | 6.73E-05? | | |
| | | | | | 120.2 | 9.97E-06 | 6.38E-05 | | |
| 1600 | 119.3? | 3.44? | .229? | 2.278? | 117.3 | 1.00E-05 | 6.41E-05 | 2.41E-03? | 1.54E-02? |
| | | | | | 116.3 | 9.31E-06 | 5.96E-05 | | |
| | | | | | 118.2 | 8.94E-06 | 5.72E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

1203057

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. AFTER MODEST EXTRAPOLATION OF ZNS TO SOUTH, ALL ARCS EMBRACE THE CROSSWIND EXTENT OF THIS TRACER. EIGHTEEN OF TWENTY TOWERS "HIT" IN THIS TEST DURING UNSTABLE CONDITIONS, BUT ALL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. MOST UNSTABLE CONDITIONS OF THIS FIELD SERIES.

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION COEFFICIENT MEAN | STAND DEV | SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 137.3 | 15.38? | -.280? | 2.376? | 138.0 | 1.95E-05 | 8.18E-05 | 1.71E-03? | 7.19E-03? |
| | | | | | 136.0 | 1.60E-05 | 6.70E-05 | | |
| | | | | | 136.0 | 1.47E-05 | 6.17E-05 | | |
| 400 | 137.8 | 14.91? | -.492? | 2.459? | 146.0 | 5.09E-06 | 2.14E-05 | 8.53E-04? | 3.58E-03? |
| | | | | | 138.0 | 3.68E-06 | 1.55E-05 | | |
| | | | | | 154.0 | 2.76E-06 | 1.16E-05 | | |
| 800 | 135.0 | 15.03 | -.391 | 2.010 | 149.6 | 1.03E-06 | 4.31E-06 | 4.14E-04 | 1.74E-03 |
| | | | | | 144.2 | 8.91E-07 | 3.74E-06 | | |
| | | | | | 118.3 | 8.70E-07 | 3.65E-06 | | |
| 1200 | 135.2 | 14.32 | -.342 | 1.994 | 152.0 | 2.98E-07 | 1.25E-06 | 1.31E-04 | 5.51E-04 |
| | | | | | 140.0 | 2.65E-07 | 1.11E-06 | | |
| | | | | | 154.0 | 2.10E-07 | 8.82E-07 | | |
| 1600 | 133.5 | 13.68 | -.338 | 1.877 | 143.1 | 1.58E-07 | 6.62E-07 | 8.53E-05 | 3.58E-04 |
| | | | | | 145.1 | 1.37E-07 | 5.74E-07 | | |
| | | | | | 141.2 | 1.35E-07 | 5.66E-07 | | |
| 3200 | 125.0 | 7.66 | .009 | 2.559 | 120.5 | 2.12E-08 | 8.92E-08 | 1.77E-05 | 7.42E-05 |
| | | | | | 130.3 | 2.07E-08 | 8.71E-08 | | |
| | | | | | 129.3 | 2.06E-08 | 8.65E-08 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

ALTHOUGH SAMPLING AT 200, 800 AND 1600M, DIFFUSION WAS SO GREAT THAT KRYPTON DETECTED WITH CONFIDENCE ONLY AT 200M. ALL 5 TOWERS AT 200M HIT BY TRACER BUT TRUNCATED BADLY AT TOP IN ALL CASES. GROUND LEVEL SAMPLING ALSO TRUNCATED AT SOUTH. ESTIMATE AT 122 DEG BASED ON SIMILARITY BETWEEN ZNS AND KRYPTON CROSSWIND DISTRIBUTIONS.

TEST V7 SEPTEMBER 25, 1973 1201 TO 1231 PST
KRYPTON-85 RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 4.2M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/C | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 132.0X | 11.86X | -.704X | 2.472X | 138.0 | 2.04E-05 | 8.55E-05 | 1.36E-03X | 5.71E-03X |
| | | | | | 136.0 | 1.95E-05 | 8.20E-05 | | |
| | | | | | 142.0 | 1.82E-05 | 7.64E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.



1203059

GROUND LEVEL AND TOWER SAMPLING 200M TO 3200M. ONLY ZINC SULFIDE TRACER RELEASED. ALL ARCS EMBRACE CROSSWIND EXTENT OF TRACER DISTRIBUTION. ABOUT HALF OF TWENTY TOWERS EXPOSED TO TRACER, BUT ALL VERTICAL DISTRIBUTIONS TRUNCATED AT TOPS OF TOWERS. TOTAL "Q" KNOWN, BUT RATE OF TRACER EMISSION WAS LIKELY NOT CONSTANT.

TEST V8 NOVEMBER 28, 1973 1132 TO 1142 PST
ZINC SULFIDE RELEASE FROM ELEVATION OF 26M
SAMPLER HT 1.5M U= 3.0M/SEC AT 26M

| DISTANCE FROM SOURCE | CROSSWIND DISTRIBUTION MEAN | STAND DEV | COEFFICIENT SKEW | KURT | THREE MAXIMUM EXPOSURES AZIMUTH | E/Q | EU/Q | CROSSWIND INTEGRATED VALUES CI(E/Q) | CI(EU/Q) |
|---|---|---|---|---|---|---|---|---|---|
| METERS | DEG | DEG | | | DEG | SEC/CU.M | 1/SQ.M | SEC/SQ.M | 1/M |
| 200 | 131.6 | 3.96 | .048 | 2.955 | 130.0 | 9.88E-05 | 2.97E-04 | 2.98E-03 | 8.93E-03 |
| | | | | | 128.0 | 6.70E-05 | 2.01E-04 | | |
| | | | | | 132.0 | 6.67E-05 | 2.00E-04 | | |
| 400 | 131.7 | 4.25 | .158 | 2.474 | 130.0 | 5.08E-05 | 1.52E-04 | 3.32E-03 | 9.95E-03 |
| | | | | | 138.0 | 2.36E-05 | 7.08E-05 | | |
| | | | | | 134.0 | 2.28E-05 | 6.83E-05 | | |
| 800 | 132.6 | 4.28 | .078 | 2.240 | 131.4 | 2.63E-05 | 7.88E-05 | 3.94E-03 | 1.18E-02 |
| | | | | | 129.5 | 2.20E-05 | 6.61E-05 | | |
| | | | | | 135.0 | 2.18E-05 | 6.55E-05 | | |
| 1200 | 134.5 | 3.61 | -.638 | 4.626 | 134.0 | 5.14E-05 | 1.54E-04 | 5.10E-03 | 1.53E-02 |
| | | | | | 136.0 | 1.95E-05 | 5.85E-05 | | |
| | | | | | 138.0 | 1.64E-05 | 4.93E-05 | | |
| 1600 | 134.4 | 3.71 | -.206 | 2.374 | 133.5 | 1.99E-05 | 5.97E-05 | 4.61E-03 | 1.38E-02 |
| | | | | | 134.4 | 1.92E-05 | 5.75E-05 | | |
| | | | | | 137.3 | 1.75E-05 | 5.24E-05 | | |
| 3200 | 137.3 | 2.97 | -.238 | 2.835 | 137.1 | 8.52E-06 | 2.56E-05 | 3.24E-03 | 9.73E-03 |
| | | | | | 138.1 | 8.38E-06 | 2.51E-05 | | |
| | | | | | 139.1 | 7.02E-06 | 2.11E-05 | | |

? INDICATES UNCERTAINTIES IN DATA.

X INDICATES INVALID OR INCOMPLETE DATA.

# APPENDIX C

## METEOROLOGICAL DATA

1203061

Missing data in Appendix C are indicated by 999.



1203062

TABLE C-1. TEMPERATURE (DEG F) FOR PERIOD OF TRACER RELEASE.

| TEST | ELEVATION 0.91 | 6.1 | 15.2 | 30.5 | 45.7 | 61.0 | 76.2 | 91.4 | 122 METERS |
|---|---|---|---|---|---|---|---|---|---|
| | 3 | 20 | 50 | 100 | 150 | 200 | 250 | 300 | 400 FEET |
| C1 | 59.2 | 999 | 60.7 | 60.9 | 61.0 | 61.4 | 62.0 | 62.8 | 64.4 |
| C2 | 64.8 | 999 | 69.9 | 71.2 | 71.5 | 71.9 | 72.5 | 73.3 | 74.5 |
| C3 | 71.3 | 999 | 72.9 | 73.2 | 73.4 | 73.5 | 73.6 | 73.9 | 75.1 |
| C4 | 62.7 | 999 | 63.7 | 64.0 | 64.3 | 64.3 | 64.2 | 64.2 | 64.8 |
| C1 | 63.8 | 999 | 68.7 | 70.7 | 73.9 | 75.6 | 75.8 | 76.0 | 76.1 |
| C2 | 53.7 | 999 | 52.7 | 52.1 | 51.7 | 51.5 | 51.4 | 51.5 | 52.9 |
| C3 | 60.2 | 999 | 58.0 | 57.0 | 56.2 | 55.6 | 55.2 | 55.2 | 55.3 |
| C4 | 56.2 | 999 | 52.8 | 51.6 | 50.9 | 50.5 | 50.2 | 50.2 | 50.2 |
| C5 | 42.2 | 999 | 43.1 | 43.2 | 999 | 999 | 999 | 999 | 999 |
| U56 | 60.2 | 999 | 61.4 | 62.3 | 63.4 | 63.7 | 63.8 | 63.9 | 64.0 |
| U57 | 62.3 | 999 | 67.5 | 68.2 | 68.3 | 68.2 | 68.1 | 68.1 | 68.4 |
| U58 | 61.5 | 999 | 62.8 | 63.2 | 63.5 | 63.4 | 63.2 | 63.1 | 63.2 |
| U59 | 52.7 | 999 | 54.0 | 54.0 | 54.1 | 54.1 | 54.1 | 54.1 | 54.1 |
| U60 | 53.5 | 999 | 57.0 | 57.6 | 58.2 | 58.5 | 58.8 | 59.1 | 59.9 |
| U61 | 65.9 | 999 | 66.3 | 66.3 | 66.3 | 66.3 | 66.3 | 66.3 | 66.4 |
| U62 | 60.5 | 999 | 60.4 | 60.1 | 60.0 | 59.9 | 59.8 | 59.7 | 59.5 |
| U63 | 65.4 | 999 | 66.4 | 66.6 | 66.8 | 67.0 | 67.4 | 68.2 | 70.3 |
| U64 | 63.8 | 999 | 68.4 | 70.5 | 72.8 | 73.9 | 74.3 | 74.6 | 74.8 |
| U65 | 61.5 | 999 | 62.0 | 62.0 | 62.1 | 62.1 | 62.1 | 62.0 | 61.9 |
| U66 | 49.7 | 999 | 50.8 | 52.3 | 52.5 | 52.5 | 52.5 | 52.4 | 52.3 |
| U67 | 59.0 | 999 | 59.2 | 59.2 | 59.4 | 59.6 | 59.6 | 59.6 | 59.3 |
| U68 | 57.3 | 999 | 58.4 | 58.7 | 58.8 | 58.9 | 59.0 | 59.0 | 59.1 |
| U69 | 65.0 | 999 | 65.7 | 65.6 | 65.7 | 65.8 | 65.9 | 66.1 | 66.8 |
| U70 | 70.2 | 999 | 70.4 | 70.3 | 70.4 | 70.4 | 70.4 | 70.4 | 70.5 |
| U71 | 61.3 | 999 | 62.6 | 62.6 | 62.8 | 62.9 | 62.9 | 63.0 | 63.0 |
| U72 | 65.8 | 999 | 67.5 | 67.9 | 68.3 | 68.6 | 69.0 | 70.3 | 72.4 |
| U73 | 68.5 | 999 | 69.3 | 69.4 | 69.8 | 70.0 | 70.0 | 70.2 | 70.4 |
| U74 | 61.7 | 999 | 63.6 | 64.0 | 64.4 | 64.9 | 65.5 | 66.2 | 67.2 |
| U75 | 56.4 | 999 | 61.5 | 61.8 | 64.5 | 65.4 | 65.9 | 66.4 | 67.6 |
| U76 | 56.7 | 999 | 57.2 | 57.5 | 57.9 | 58.0 | 58.1 | 58.2 | 58.5 |
| U77 | 61.8 | 999 | 62.1 | 62.1 | 62.2 | 62.1 | 62.0 | 62.0 | 62.4 |
| U78 | 54.3 | 999 | 53.9 | 53.8 | 53.7 | 53.6 | 53.4 | 53.1 | 53.7 |
| U79 | 49.3 | 999 | 51.0 | 51.8 | 52.4 | 53.1 | 53.3 | 53.3 | 53.5 |
| U80 | 57.4 | 999 | 63.0 | 64.1 | 65.5 | 66.4 | 67.0 | 67.6 | 68.6 |
| U81 | 62.4 | 999 | 63.3 | 63.7 | 64.2 | 64.6 | 64.8 | 64.9 | 65.4 |
| U82 | 48.3 | 999 | 53.0 | 54.6 | 55.7 | 56.1 | 56.0 | 55.8 | 56.1 |
| U83 | 46.0 | 999 | 50.6 | 52.1 | 54.1 | 55.8 | 56.5 | 56.6 | 57.0 |
| U84 | 56.5 | 999 | 57.8 | 58.5 | 58.8 | 59.0 | 59.0 | 59.0 | 58.9 |
| U85 | 59.4 | 999 | 58.5 | 59.0 | 59.5 | 59.8 | 60.1 | 60.4 | 61.1 |
| U86 | 53.6 | 999 | 57.2 | 59.0 | 59.4 | 59.5 | 59.5 | 59.5 | 59.3 |
| U87 | 67.6 | 999 | 72.2 | 73.0 | 73.5 | 73.9 | 74.4 | 75.0 | 75.9 |
| U88 | 70.3 | 999 | 71.4 | 72.3 | 74.3 | 75.6 | 75.9 | 76.0 | 76.1 |
| U89 | 74.5 | 999 | 79.6 | 80.4 | 80.6 | 80.6 | 80.4 | 80.3 | 80.2 |
| U90 | 70.7 | 999 | 77.1 | 77.3 | 77.5 | 77.6 | 77.4 | 77.4 | 77.4 |
| U91 | 54.1 | 999 | 55.8 | 56.9 | 57.1 | 57.0 | 56.7 | 56.6 | 56.5 |
| U92 | 53.8 | 999 | 56.8 | 57.2 | 57.6 | 57.9 | 57.9 | 58.2 | 59.1 |
| V1 | 55.5 | 53.8 | 52.5 | 52.1 | 51.4 | 50.9 | 50.8 | 50.8 | 50.3 |
| V2 | 42.7 | 42.6 | 42.2 | 41.7 | 41.4 | 41.2 | 41.0 | 40.8 | 40.0 |
| V3 | 49.9 | 49.2 | 48.5 | 47.8 | 47.4 | 47.1 | 46.9 | 46.7 | 46.3 |
| V4 | 18.5 | 19.2 | 19.0 | 18.3 | 18.0 | 17.8 | 17.6 | 17.4 | 17.1 |
| V5 | 67.1 | 70.0 | 71.1 | 72.0 | 73.0 | 74.4 | 75.9 | 76.2 | 76.4 |
| V6 | 61.4 | 62.2 | 62.6 | 63.1 | 63.9 | 64.7 | 65.0 | 65.0 | 65.1 |
| V7 | 70.1 | 68.2 | 66.9 | 66.0 | 65.4 | 64.9 | 64.6 | 64.4 | 64.0 |
| V8 | 41.4 | 41.6 | 40.6 | 40.5 | 40.2 | 39.9 | 39.6 | 39.4 | 39.0 |



1203063

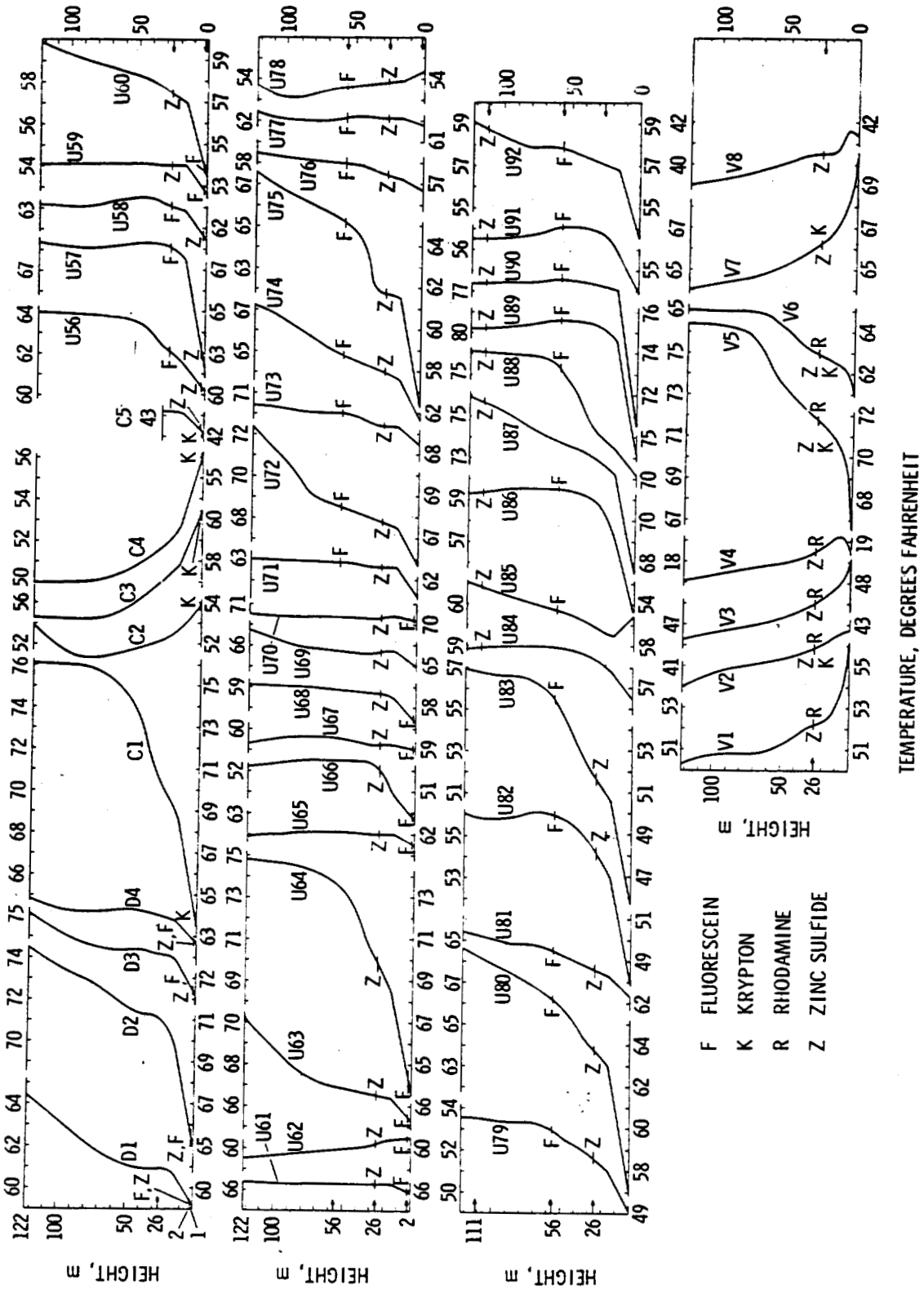


FIGURE C-1. Vertical profiles of temperature. Letters designate height and type of tracer release.



1203064

TABLE C-2. WIND SPEED (M/SEC) FOR PERIOD OF TRACER RELEASE.

| | ELEVATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | PRIMARILY BEW CUPS | | | | | | PRIMARILY AEROVANES | | | | |
| ---- | .76 | 1.5 | 3.0 | 6.1 | 12.2 | 24.4 | 15.2 | 30.5 | 61.0 | 91.4 | 122 METERS |
| TEST | 2.5 | 5 | 10 | 20 | 40 | 80 | 50 | 100 | 200 | 300 | 400 FEET |
| D1 | 0.9 | 1.1 | 1.4 | 1.8 | 2.5 | 3.2 | 2.7 | 3.4 | 3.9 | 4.5 | 5.1 |
| D2 | 1.2 | 1.6 | 2.2 | 3.0 | 4.3 | 5.3 | 4.6 | 5.6 | 6.6 | 6.9 | 6.5 |
| D3 | 2.0 | 2.4 | 2.8 | 3.0 | 3.2 | 3.5 | 3.3 | 3.6 | 4.7 | 6.0 | 7.3 |
| D4 | 0.9 | 1.2 | 1.5 | 1.8 | 2.3 | 3.2 | 2.5 | 3.5 | 4.8 | 5.9 | 7.0 |
| C1 | 0.8 | 1.2 | 1.6 | 2.3 | 3.5 | 5.0 | 4.0 | 5.5 | 5.8 | 5.2 | 4.2 |
| C2 | 3.1 | 3.9 | 4.4 | 5.0 | 5.6 | 6.1 | 5.8 | 6.3 | 999 | 999 | 999 |
| C3 | 6.0 | 7.6 | 8.9 | 10.2 | 11.5 | 12.6 | 12.0 | 13.0 | 999 | 999 | 999 |
| C4 | 3.0 | 3.8 | 4.4 | 4.9 | 5.3 | 5.6 | 5.5 | 5.7 | 999 | 999 | 999 |
| C5 | 2.1 | 2.6 | 3.0 | 3.6 | 4.4 | 5.4 | 4.7 | 5.9 | 7.5 | 8.2 | 7.7 |
| U56 | 1.3 | 1.6 | 2.0 | 2.6 | 3.3 | 4.2 | 3.6 | 4.6 | 6.0 | 6.4 | 6.7 |
| U57 | 0.9 | 1.3 | 1.7 | 2.4 | 3.2 | 3.4 | 3.3 | 3.4 | 3.4 | 3.5 | 3.6 |
| U58 | 2.2 | 2.5 | 3.4 | 4.0 | 4.8 | 5.8 | 5.1 | 6.1 | 6.9 | 7.6 | 8.2 |
| U59 | 1.4 | 1.8 | 2.1 | 2.6 | 3.1 | 3.4 | 3.2 | 3.5 | 3.5 | 5.0 | 7.1 |
| U60 | 0.8 | 1.2 | 1.5 | 2.1 | 2.8 | 3.8 | 3.1 | 4.2 | 5.7 | 7.1 | 8.8 |
| U61 | 4.2 | 5.0 | 5.5 | 6.4 | 7.4 | 8.5 | 7.7 | 8.8 | 10.1 | 11.5 | 13.3 |
| U62 | 4.4 | 5.2 | 5.8 | 6.8 | 7.6 | 8.3 | 7.8 | 8.5 | 9.2 | 10.1 | 11.7 |
| U63 | 2.5 | 2.9 | 3.3 | 4.0 | 4.8 | 5.9 | 5.1 | 6.2 | 7.5 | 8.7 | 9.8 |
| U64 | 1.0 | 1.4 | 1.8 | 2.5 | 3.4 | 5.0 | 4.0 | 5.7 | 5.3 | 4.5 | 3.4 |
| U65 | 2.3 | 2.7 | 3.2 | 3.8 | 4.6 | 5.4 | 4.9 | 5.7 | 6.7 | 7.4 | 8.0 |
| U66 | 1.0 | 1.3 | 1.6 | 2.1 | 2.8 | 3.5 | 3.1 | 3.6 | 3.9 | 4.2 | 4.5 |
| U67 | 1.8 | 2.1 | 2.4 | 2.9 | 3.6 | 4.4 | 3.9 | 4.6 | 5.3 | 5.6 | 6.2 |
| U68 | 1.8 | 2.1 | 2.9 | 3.0 | 3.7 | 4.6 | 4.0 | 4.9 | 6.0 | 6.8 | 7.9 |
| U69 | 2.2 | 2.6 | 3.0 | 3.5 | 4.1 | 4.8 | 4.4 | 5.0 | 5.8 | 7.2 | 9.0 |
| U70 | 3.7 | 4.6 | 5.0 | 5.9 | 6.8 | 7.7 | 7.1 | 7.9 | 8.7 | 9.6 | 10.9 |
| U71 | 1.2 | 1.5 | 1.9 | 2.3 | 2.9 | 3.4 | 3.1 | 3.5 | 4.3 | 4.8 | 5.5 |
| U72 | 1.6 | 1.9 | 2.3 | 2.9 | 3.6 | 4.4 | 3.9 | 4.6 | 6.2 | 7.5 | 6.6 |
| U73 | 2.4 | 2.7 | 3.1 | 3.7 | 4.5 | 5.4 | 4.7 | 5.7 | 6.7 | 7.6 | 9.1 |
| U74 | 1.5 | 1.7 | 2.1 | 2.7 | 3.5 | 4.5 | 3.8 | 4.7 | 6.5 | 7.8 | 7.6 |
| U75 | 0.9 | 1.3 | 1.8 | 2.3 | 2.5 | 2.9 | 2.6 | 2.9 | 2.5 | 3.1 | 2.6 |
| U76 | 2.7 | 3.2 | 3.7 | 4.4 | 5.3 | 6.4 | 5.6 | 6.6 | 7.2 | 7.8 | 8.5 |
| U77 | 1.4 | 1.6 | 1.9 | 2.3 | 2.8 | 3.5 | 3.0 | 3.7 | 3.7 | 3.9 | 4.1 |
| U78 | 3.2 | 3.8 | 4.2 | 4.9 | 5.6 | 6.4 | 5.8 | 6.6 | 7.4 | 8.0 | 6.5 |
| U79 | 1.6 | 1.9 | 2.2 | 2.8 | 3.8 | 5.0 | 4.2 | 5.5 | 6.8 | 6.9 | 7.9 |
| U80 | 0.5 | 0.9 | 1.2 | 1.5 | 1.8 | 2.1 | 1.9 | 2.3 | 2.9 | 3.6 | 4.0 |
| U81 | 2.4 | 2.8 | 3.1 | 3.7 | 4.4 | 5.5 | 4.7 | 5.9 | 7.1 | 7.4 | 8.2 |
| U82 | 0.8 | 1.1 | 1.4 | 2.0 | 3.0 | 4.5 | 3.4 | 5.1 | 4.5 | 3.5 | 3.1 |
| U83 | 1.1 | 1.5 | 1.9 | 2.5 | 3.6 | 5.1 | 4.1 | 5.6 | 6.7 | 5.4 | 5.1 |
| U84 | 0.5 | 0.9 | 1.5 | 2.1 | 2.9 | 3.7 | 3.1 | 4.0 | 5.1 | 6.2 | 7.6 |
| U85 | 2.4 | 3.0 | 3.8 | 4.8 | 5.8 | 7.0 | 6.2 | 7.3 | 8.3 | 9.1 | 10.0 |
| U86 | 0.0 | 0.8 | 1.6 | 2.6 | 3.7 | 4.2 | 4.0 | 4.3 | 5.0 | 5.7 | 6.6 |
| U87 | 0.6 | 1.0 | 1.4 | 1.8 | 2.3 | 2.5 | 2.4 | 2.6 | 3.6 | 5.4 | 6.3 |
| U88 | 0.4 | 1.3 | 2.1 | 3.0 | 3.6 | 5.2 | 4.2 | 5.8 | 7.6 | 6.5 | 6.3 |
| U89 | 0.4 | 0.9 | 1.4 | 2.0 | 2.5 | 2.8 | 2.7 | 2.8 | 3.1 | 3.4 | 3.8 |
| U90 | 0.0 | 0.9 | 1.9 | 3.0 | 4.0 | 4.2 | 4.1 | 4.3 | 4.3 | 4.1 | 4.1 |
| U91 | 0.2 | 0.9 | 1.5 | 2.2 | 2.8 | 3.3 | 2.9 | 3.4 | 3.8 | 4.0 | 4.2 |
| U92 | 0.4 | 0.9 | 1.5 | 2.2 | 3.0 | 3.7 | 3.2 | 4.0 | 4.8 | 5.5 | 5.2 |
| V1 | 2.4 | 3.5 | 4.5 | 5.0 | 5.4 | 5.7 | 5.5 | 5.8 | 6.1 | 6.2 | 6.3 |
| V2 | 2.4 | 2.8 | 3.2 | 3.5 | 3.8 | 4.3 | 4.0 | 4.5 | 4.9 | 5.1 | 5.3 |
| V3 | 1.6 | 2.5 | 3.3 | 3.6 | 3.9 | 4.2 | 4.0 | 4.2 | 4.3 | 4.3 | 4.3 |
| V4 | 1.6 | 1.8 | 1.9 | 2.0 | 2.2 | 2.5 | 2.3 | 2.7 | 2.9 | 3.1 | 3.2 |
| V5 | 1.1 | 1.2 | 1.9 | 2.3 | 3.2 | 4.2 | 3.5 | 4.6 | 7.4 | 6.4 | 5.7 |
| V6 | 2.6 | 2.9 | 3.4 | 4.0 | 5.0 | 6.2 | 5.4 | 6.7 | 8.8 | 7.0 | 6.8 |
| V7 | 2.9 | 3.2 | 3.4 | 3.7 | 3.9 | 4.2 | 4.0 | 4.3 | 4.6 | 4.5 | 5.0 |
| V8 | 1.3 | 1.8 | 2.1 | 2.4 | 2.6 | 3.0 | 2.7 | 3.1 | 3.4 | 3.4 | 3.6 |



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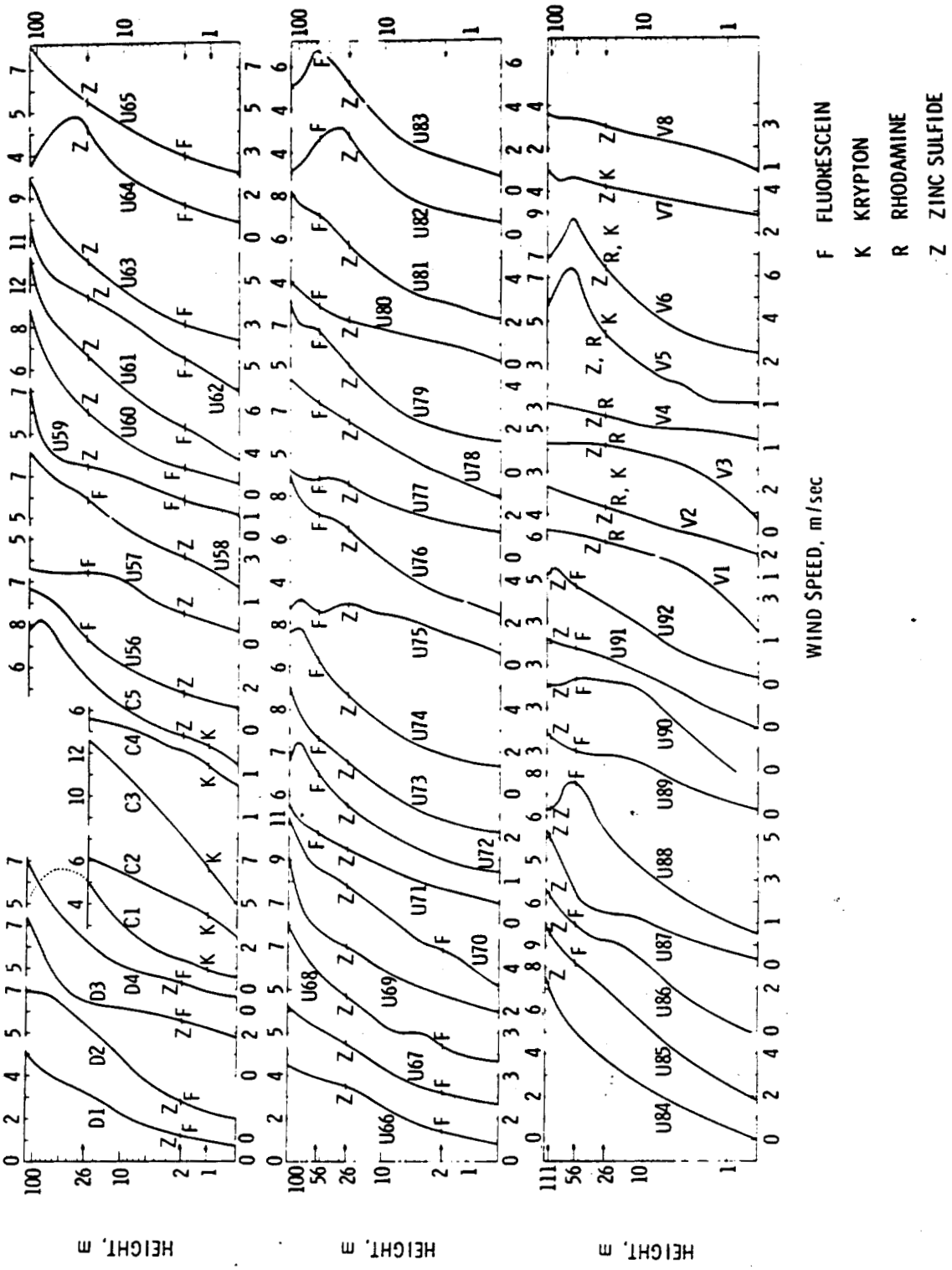


FIGURE C-2. Vertical profiles of wind speed. Letters designate height and type of tracer release.



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TABLE C-3. WIND DIRECTION (DEG) FOR PERIOD OF TRACER RELEASE.

| | ELEVATION | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AEROVANES | | | | | | | | BECKMAN-WHITLEY VANES | | | | |
| | 2.1 | 15.2 | 30.5 | 45.7 | 61.0 | 91.4 | 122 | METERS | .76 | 1.5 | 3.0 | 6.1 | 12.2 | 24.4 |
| TEST | 7 | 50 | 100 | 150 | 200 | 300 | 400 | FEET | 2.5 | 5 | 10 | 20 | 40 | 80 |
| D1 | 281 | 291 | 289 | 999 | 278 | 999 | 264 | | 278 | 277 | 281 | 284 | 295 | 297 |
| D2 | 283 | 289 | 290 | 999 | 295 | 999 | 304 | | 283 | 285 | 284 | 286 | 293 | 295 |
| D3 | 301 | 290 | 283 | 999 | 278 | 999 | 273 | | 999 | 999 | 999 | 999 | 999 | 999 |
| D4 | 273 | 270 | 274 | 999 | 282 | 999 | 284 | | 251 | 252 | 253 | 254 | 270 | 279 |
| C1 | 291 | 298 | 303 | 999 | 323 | 999 | 341 | | 293 | 294 | 296 | 298 | 306 | 308 |
| C2 | 999 | 999 | 999 | 999 | 999 | 999 | 999 | | 311 | 315 | 310 | 310 | 312 | 306 |
| C3 | 999 | 999 | 999 | 999 | 999 | 999 | 999 | | 306 | 310 | 305 | 306 | 308 | 302 |
| C4 | 999 | 999 | 999 | 999 | 999 | 999 | 999 | | 315 | 318 | 314 | 315 | 317 | 307 |
| C5 | 301 | 297 | 303 | 999 | 305 | 320 | 306 | | 999 | 299 | 295 | 296 | 302 | 298 |
| U56 | 241 | 251 | 261 | 999 | 267 | 999 | 269 | | 233 | 236 | 235 | 236 | 251 | 262 |
| U57 | 290 | 292 | 294 | 999 | 294 | 999 | 290 | | 288 | 291 | 292 | 292 | 297 | 299 |
| U58 | 277 | 274 | 276 | 999 | 277 | 999 | 277 | | 278 | 280 | 278 | 277 | 282 | 281 |
| U59 | 250 | 251 | 262 | 999 | 277 | 999 | 290 | | 235 | 236 | 236 | 234 | 241 | 251 |
| U60 | 301 | 313 | 317 | 999 | 315 | 999 | 300 | | 301 | 302 | 304 | 307 | 313 | 319 |
| U61 | 293 | 293 | 296 | 999 | 298 | 999 | 290 | | 293 | 293 | 293 | 293 | 296 | 299 |
| U62 | 290 | 282 | 285 | 999 | 287 | 999 | 283 | | 286 | 286 | 286 | 285 | 286 | 288 |
| U63 | 289 | 287 | 291 | 999 | 296 | 999 | 296 | | 269 | 272 | 276 | 283 | 291 | 302 |
| U64 | 277 | 290 | 304 | 999 | 313 | 999 | 316 | | 291 | 291 | 291 | 290 | 293 | 296 |
| U65 | 258 | 257 | 262 | 999 | 267 | 999 | 273 | | 259 | 258 | 258 | 258 | 259 | 263 |
| U66 | 257 | 262 | 268 | 999 | 271 | 999 | 266 | | 245 | 248 | 252 | 258 | 266 | 275 |
| U67 | 267 | 261 | 266 | 999 | 270 | 999 | 279 | | 264 | 264 | 264 | 262 | 265 | 270 |
| U68 | 268 | 284 | 289 | 999 | 292 | 999 | 298 | | 287 | 287 | 286 | 285 | 288 | 291 |
| U69 | 278 | 272 | 278 | 999 | 283 | 999 | 295 | | 274 | 274 | 273 | 272 | 275 | 278 |
| U70 | 301 | 297 | 299 | 999 | 299 | 999 | 299 | | 299 | 299 | 298 | 299 | 300 | 301 |
| U71 | 259 | 259 | 265 | 999 | 276 | 999 | 286 | | 260 | 260 | 258 | 257 | 262 | 268 |
| U72 | 290 | 292 | 298 | 999 | 302 | 999 | 308 | | 290 | 289 | 288 | 289 | 294 | 299 |
| U73 | 302 | 302 | 299 | 999 | 302 | 999 | 300 | | 302 | 302 | 302 | 303 | 304 | 305 |
| U74 | 289 | 302 | 300 | 999 | 302 | 999 | 308 | | 292 | 291 | 291 | 292 | 298 | 301 |
| U75 | 231 | 275 | 271 | 999 | 295 | 999 | 315 | | 222 | 230 | 237 | 247 | 260 | 272 |
| U76 | 257 | 255 | 250 | 999 | 258 | 999 | 268 | | 260 | 259 | 256 | 253 | 253 | 257 |
| U77 | 296 | 293 | 290 | 999 | 291 | 999 | 280 | | 296 | 298 | 294 | 294 | 296 | 298 |
| U78 | 316 | 313 | 311 | 999 | 311 | 999 | 318 | | 313 | 311 | 311 | 313 | 314 | 313 |
| U79 | 309 | 309 | 309 | 999 | 313 | 999 | 325 | | 307 | 307 | 305 | 310 | 310 | 300 |
| U80 | 286 | 294 | 309 | 999 | 310 | 999 | 308 | | 270 | 279 | 288 | 299 | 305 | 304 |
| U81 | 294 | 302 | 296 | 999 | 304 | 999 | 303 | | 299 | 297 | 296 | 297 | 299 | 302 |
| U82 | 284 | 304 | 302 | 999 | 316 | 999 | 338 | | 267 | 277 | 285 | 294 | 305 | 310 |
| U83 | 283 | 297 | 292 | 999 | 311 | 999 | 324 | | 282 | 284 | 287 | 291 | 296 | 301 |
| V1 | 295 | 288 | 291 | 291 | 289 | 999 | 292 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V2 | 324 | 317 | 318 | 320 | 320 | 999 | 319 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V3 | 325 | 323 | 322 | 326 | 324 | 999 | 328 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V4 | 325 | 321 | 325 | 999 | 327 | 999 | 328 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V5 | 273 | 286 | 290 | 300 | 304 | 999 | 319 | | 265 | 275 | 268 | 270 | 281 | 285 |
| V6 | 299 | 299 | 298 | 305 | 305 | 999 | 316 | | 301 | 300 | 298 | 295 | 296 | 296 |
| V7 | 318 | 313 | 316 | 321 | 318 | 999 | 314 | | 320 | 999 | 999 | 999 | 999 | 999 |
| V8 | 317 | 315 | 313 | 318 | 319 | 999 | 329 | | 314 | 309 | 312 | 311 | 310 | 309 |



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TABLE C-3. WIND DIRECTION (DEG) FOR PERIOD OF TRACER RELEASE (CONTINUED).

| | ELEVATION | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AEROVANES | | | | | | | | BECKMAN-WHITLEY VANES | | | | | |
| ---- | 2.1 | 15.2 | 30.5 | 45.7 | 61.0 | 91.4 | 122 | METERS | 2 | 4 | 8 | 16 | 32 | 46 |
| TEST | 7 | 50 | 100 | 150 | 200 | 300 | 400 | FEET | 6.6 | 13.1 | 26.2 | 52.5 | 105 | 157 |
| U84 | 288 | 293 | 304 | 999 | 300 | 309 | 300 | | 267 | 273 | 277 | 289 | 999 | 999 |
| U85 | 290 | 289 | 295 | 999 | 291 | 298 | 287 | | 275 | 290 | 282 | 289 | 999 | 298 |
| U86 | 254 | 266 | 286 | 279 | 999 | 298 | 291 | | 248 | 251 | 257 | 275 | 999 | 300 |
| U87 | 216 | 238 | 248 | 260 | 270 | 299 | 301 | | 180 | 177 | 184 | 199 | 256 | 285 |
| U88 | 287 | 294 | 288 | 295 | 305 | 308 | 309 | | 273 | 275 | 279 | 290 | 298 | 306 |
| U89 | 242 | 264 | 279 | 265 | 268 | 270 | 271 | | 237 | 247 | 263 | 286 | 283 | 284 |
| U90 | 283 | 287 | 288 | 280 | 281 | 285 | 288 | | 280 | 281 | 284 | 293 | 297 | 298 |
| U91 | 325 | 328 | 333 | 315 | 310 | 297 | 285 | | 288 | 290 | 294 | 304 | 309 | 310 |
| U92 | 269 | 285 | 296 | 294 | 300 | 304 | 305 | | 253 | 260 | 270 | 285 | 298 | 305 |



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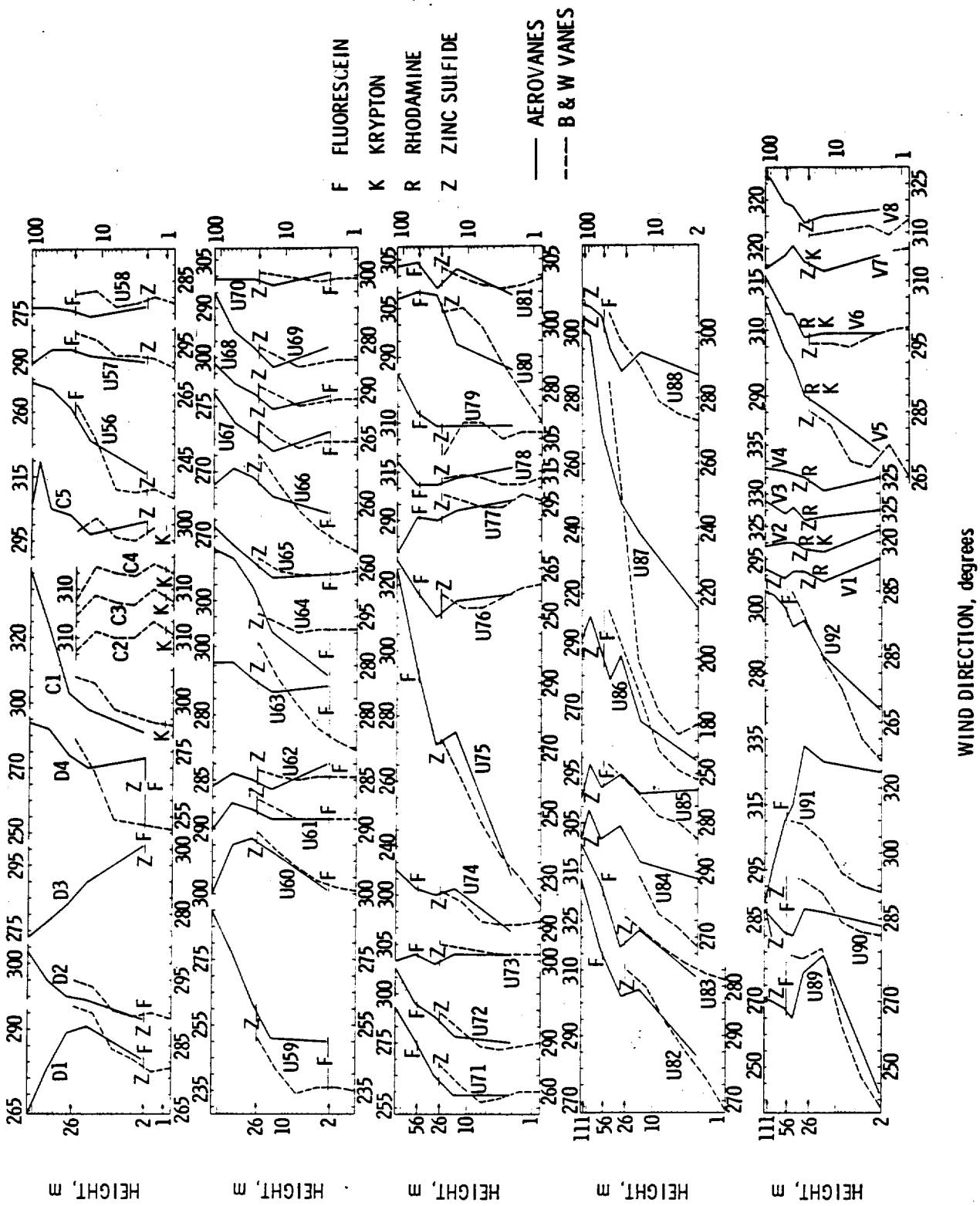


FIGURE C-3. Vertical profiles of wind direction. Letters designate height and type of tracer release. Dashed curves are from Beckman and Whitley vanes; solid curves are from Aerovanes.



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TABLE C-4. WIND DIRECTION STANDARD DEVIATION (DEG) FOR PERIOD OF TRACER RELEASE.

| | ELEVATION | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AEROVANES | | | | | | | | BECKMAN-WHITLEY VANES | | | | |
| | 2.1 | 15.2 | 30.5 | 45.7 | 61.0 | 91.4 | 122 | METERS | .76 | 1.5 | 3.0 | 6.1 | 12.2 | 24.4 |
| TEST | 7 | 50 | 100 | 150 | 200 | 300 | 400 | FEET | 2.5 | 5 | 10 | 20 | 40 | 80 |
| D1 | 15.9 | 9.6 | 9.3 | 999 | 9.9 | 999 | 4.4 | | 24.7 | 22.0 | 10.1 | 16.6 | 11.9 | 9.2 |
| D2 | 10.9 | 5.9 | 4.0 | 999 | 4.9 | 999 | 9.4 | | 10.5 | 9.6 | 9.0 | 8.3 | 5.9 | 3.6 |
| D3 | 32.7 | 28.2 | 22.4 | 999 | 17.3 | 999 | 8.6 | | 999 | 999 | 999 | 999 | 999 | 999 |
| D4 | 7.8 | 8.5 | 4.2 | 999 | 3.6 | 999 | 4.5 | | 37.3 | 37.3 | 35.8 | 33.4 | 15.5 | 7.3 |
| C1 | 5.5 | 2.6 | 2.3 | 999 | 3.2 | 999 | 4.8 | | 8.0 | 6.7 | 5.1 | 3.3 | 2.3 | 1.4 |
| C2 | 999 | 999 | 999 | 999 | 999 | 999 | 999 | | 7.3 | 6.1 | 6.1 | 6.1 | 5.1 | 4.7 |
| C3 | 999 | 999 | 999 | 999 | 999 | 999 | 999 | | 10.9 | 9.8 | 9.6 | 10.1 | 9.7 | 8.9 |
| C4 | 999 | 999 | 999 | 999 | 999 | 999 | 999 | | 13.6 | 13.1 | 13.8 | 14.6 | 12.3 | 12.0 |
| C5 | 7.4 | 4.9 | 4.9 | 999 | 3.3 | 2.9 | 3.7 | | 999 | 7.3 | 7.5 | 7.3 | 6.7 | 5.2 |
| U56 | 21.0 | 11.2 | 5.8 | 999 | 5.1 | 999 | 6.7 | | 23.2 | 21.9 | 21.4 | 19.5 | 13.5 | 8.2 |
| U57 | 9.5 | 7.6 | 4.0 | 999 | 4.4 | 999 | 6.1 | | 10.9 | 8.9 | 6.1 | 4.2 | 4.8 | 4.0 |
| U58 | 7.1 | 6.8 | 6.1 | 999 | 5.5 | 999 | 5.2 | | 8.4 | 7.8 | 7.3 | 7.3 | 6.4 | 6.1 |
| U59 | 13.3 | 11.0 | 12.0 | 999 | 8.3 | 999 | 4.8 | | 16.4 | 14.9 | 14.2 | 13.2 | 9.7 | 10.3 |
| U60 | 13.6 | 12.3 | 11.3 | 999 | 5.9 | 999 | 0.0 | | 17.1 | 13.8 | 10.9 | 9.1 | 10.3 | 10.3 |
| U61 | 5.7 | 4.4 | 3.8 | 999 | 3.0 | 999 | 0.5 | | 6.6 | 5.9 | 5.6 | 5.7 | 5.2 | 4.6 |
| U62 | 7.9 | 5.7 | 5.5 | 999 | 5.5 | 999 | 3.0 | | 7.9 | 6.2 | 5.8 | 5.8 | 5.4 | 5.1 |
| U63 | 4.5 | 3.2 | 2.7 | 999 | 2.0 | 999 | 2.1 | | 6.5 | 5.8 | 5.0 | 4.5 | 3.3 | 2.2 |
| U64 | 5.2 | 3.6 | 2.9 | 999 | 2.2 | 999 | 7.4 | | 5.3 | 4.6 | 4.0 | 3.7 | 3.2 | 2.3 |
| U65 | 13.6 | 10.8 | 10.0 | 999 | 7.4 | 999 | 6.5 | | 15.3 | 14.8 | 14.7 | 14.8 | 12.4 | 10.5 |
| U66 | 22.8 | 14.5 | 13.0 | 999 | 9.0 | 999 | 6.4 | | 33.6 | 31.0 | 27.3 | 23.0 | 16.2 | 13.2 |
| U67 | 8.5 | 6.2 | 6.4 | 999 | 5.4 | 999 | 4.8 | | 12.1 | 11.4 | 11.3 | 10.8 | 7.8 | 6.6 |
| U68 | 11.9 | 8.8 | 6.7 | 999 | 3.9 | 999 | 2.7 | | 13.0 | 12.8 | 12.3 | 11.6 | 9.2 | 7.6 |
| U69 | 7.7 | 7.6 | 6.8 | 999 | 5.0 | 999 | 2.8 | | 9.7 | 9.4 | 9.3 | 9.1 | 8.3 | 6.9 |
| U70 | 7.8 | 7.5 | 7.0 | 999 | 5.3 | 999 | 4.6 | | 9.6 | 8.1 | 7.7 | 8.0 | 6.9 | 6.0 |
| U71 | 15.7 | 14.2 | 13.9 | 999 | 11.1 | 999 | 6.5 | | 15.4 | 14.9 | 14.7 | 15.2 | 13.8 | 13.7 |
| U72 | 19.8 | 14.4 | 10.8 | 999 | 5.0 | 999 | 2.9 | | 18.8 | 19.5 | 18.9 | 19.5 | 15.3 | 10.7 |
| U73 | 8.6 | 6.9 | 6.2 | 999 | 4.3 | 999 | 3.2 | | 8.6 | 7.7 | 7.3 | 7.2 | 6.2 | 4.9 |
| U74 | 8.6 | 4.7 | 2.7 | 999 | 2.9 | 999 | 2.5 | | 10.5 | 10.4 | 9.2 | 8.3 | 5.4 | 3.3 |
| U75 | 7.9 | 5.4 | 6.9 | 999 | 7.6 | 999 | 4.0 | | 5.6 | 6.0 | 7.7 | 6.7 | 4.2 | 4.8 |
| U76 | 8.7 | 6.6 | 5.7 | 999 | 4.6 | 999 | 4.7 | | 9.2 | 8.7 | 8.6 | 8.9 | 7.8 | 6.7 |
| U77 | 9.1 | 6.5 | 5.3 | 999 | 3.8 | 999 | 7.4 | | 9.2 | 8.6 | 8.3 | 7.9 | 6.7 | 5.1 |
| U78 | 5.7 | 4.5 | 3.9 | 999 | 2.4 | 999 | 2.3 | | 6.5 | 5.7 | 5.5 | 5.5 | 4.6 | 4.1 |
| U79 | 5.3 | 3.9 | 3.1 | 999 | 3.8 | 999 | 5.2 | | 7.8 | 7.0 | 6.4 | 5.9 | 4.5 | 3.5 |
| U80 | 16.4 | 9.9 | 3.4 | 999 | 7.2 | 999 | 4.7 | | 17.5 | 16.1 | 11.1 | 10.5 | 6.6 | 3.7 |
| U81 | 16.1 | 14.9 | 13.8 | 999 | 10.8 | 999 | 10.0 | | 14.2 | 14.2 | 15.0 | 16.6 | 15.2 | 12.2 |
| U82 | 7.4 | 4.1 | 2.9 | 999 | 4.9 | 999 | 9.1 | | 28.7 | 21.8 | 11.6 | 8.2 | 4.6 | 2.9 |
| U83 | 4.7 | 2.6 | 2.0 | 999 | 2.6 | 999 | 3.5 | | 7.7 | 6.6 | 4.3 | 3.6 | 2.8 | 2.1 |
| V1 | 13.1 | 10.3 | 9.5 | 999 | 7.5 | 999 | 6.2 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V2 | 12.0 | 11.9 | 12.1 | 999 | 11.2 | 999 | 9.3 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V3 | 10.0 | 10.5 | 9.5 | 999 | 7.6 | 999 | 8.2 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V4 | 10.4 | 9.0 | 6.6 | 999 | 5.0 | 999 | 3.9 | | 999 | 999 | 999 | 999 | 999 | 999 |
| V5 | 14.3 | 5.9 | 3.9 | 3.5 | 3.1 | 3.2 | 3.1 | | 17.1 | 14.3 | 13.5 | 11.1 | 6.9 | 5.1 |
| V6 | 5.7 | 4.7 | 4.1 | 4.1 | 4.4 | 4.0 | 4.7 | | 6.5 | 5.7 | 5.2 | 5.1 | 4.9 | 3.7 |
| V7 | 20.0 | 21.1 | 19.2 | 21.2 | 18.9 | 19.1 | 16.6 | | 21.1 | 999 | 999 | 999 | 999 | 999 |
| V8 | 7.0 | 6.4 | 4.7 | 4.6 | 4.2 | 4.2 | 5.0 | | 10.2 | 8.6 | 7.8 | 8.0 | 5.8 | 5.2 |



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TABLE C-4. WIND DIRECTION STANDARD DEVIATION (DEG) FOR PERIOD OF TRACER RELEASE (CONTINUED).

| | ELEVATION | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AEROVANES | | | | | | | | BECKMAN-WHITLEY VANES | | | | | |
| | 2.1 | 15.2 | 30.5 | 45.7 | 61.0 | 91.4 | 122 | METERS | 2 | 4 | 8 | 16 | 32 | 46 |
| TEST | 7 | 50 | 100 | 150 | 200 | 300 | 400 | FEET | 6.6 | 13.1 | 26.2 | 52.5 | 105 | 157 |
| U84 | 12.0 | 9.1 | 7.9 | 999 | 4.9 | 2.5 | 1.5 | | 10.5 | 7.9 | 7.3 | 7.2 | 999 | 999 |
| U85 | 7.1 | 6.0 | 6.3 | 999 | 5.6 | 5.5 | 5.4 | | 12.7 | 6.6 | 6.7 | 5.7 | 999 | 5.3 |
| U86 | 10.7 | 5.9 | 5.7 | 5.3 | 999 | 3.8 | 2.5 | | 10.5 | 8.4 | 7.1 | 7.0 | 999 | 4.1 |
| U87 | 54.4 | 48.2 | 43.0 | 36.1 | 17.3 | 8.6 | 8.0 | | 30.0 | 31.0 | 27.2 | 39.5 | 28.2 | 11.4 |
| U88 | 5.8 | 3.9 | 3.4 | 2.9 | 2.8 | 3.4 | 4.1 | | 10.2 | 7.1 | 5.2 | 3.7 | 2.8 | 2.1 |
| U89 | 26.8 | 19.0 | 18.2 | 16.9 | 14.0 | 6.7 | 5.8 | | 24.7 | 21.6 | 16.6 | 10.7 | 12.9 | 11.2 |
| U90 | 10.7 | 9.5 | 8.8 | 7.1 | 6.1 | 5.7 | 5.5 | | 12.1 | 9.8 | 9.4 | 7.8 | 7.1 | 5.9 |
| U91 | 14.8 | 10.5 | 10.6 | 11.6 | 10.0 | 10.1 | 8.7 | | 10.8 | 7.7 | 7.8 | 8.5 | 8.9 | 7.3 |
| U92 | 7.4 | 5.1 | 4.7 | 4.5 | 4.4 | 4.3 | 4.3 | | 7.1 | 4.9 | 4.2 | 4.3 | 4.3 | 3.8 |



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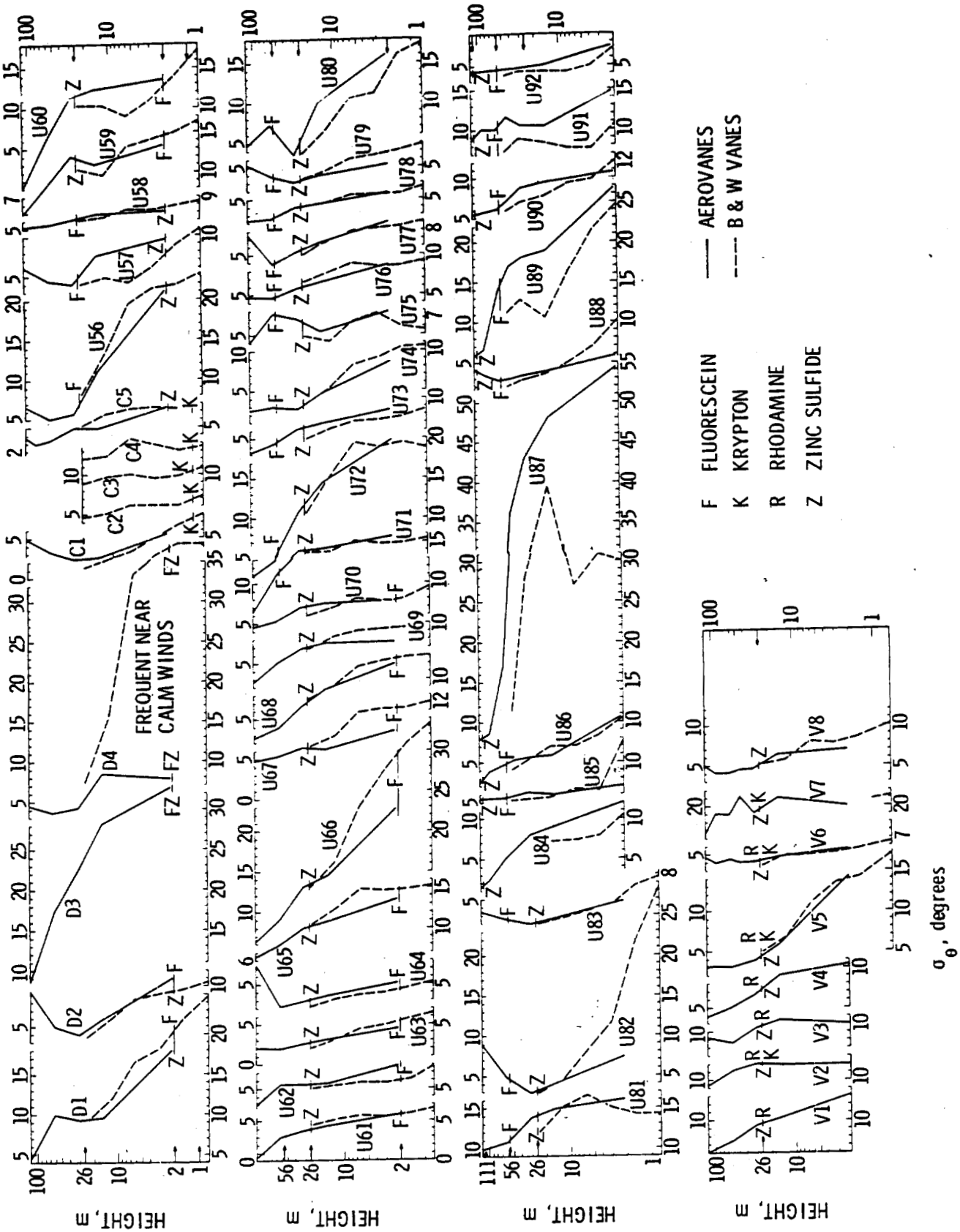


FIGURE C-4. Vertical profiles of wind direction standard deviation. Letters designate height and type of tracer release. Dashed curves are from Beckman and Whitley vanes; solid curves are from Aerovanes.

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