# DEMONSTRATION REPORT: DISCRIMINATION

# A MULTISENSOR SYSTEM FOR THE DETECTION AND CHARACTERIZATION OF UXO

# MM-0437

SITE LOCATION:
**U.S. ARMY YUMA PROVING GROUND – OPEN FIELD AREA**

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TECHNOLOGY TYPE/PLATFORM:
**BUD/CART**

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# 1. BUD DESCRIPTION

The Berkeley UXO Discriminator (BUD) (Figure1) is an optimally designed active electromagnetic system that not only detects but also characterizes UXO. The performance of the system is governed by a target size - depth curve. BUD was designed to detect UXO in the 20 mm to 155 mm size range for depths between 0 and 1.5 m, and to characterize them in a depth range from 0 to 1.1 m. The system incorporates three orthogonal transmitters and eight pairs of differenced receivers. Eight receiver coils are placed horizontally along the two diagonals of the upper and lower planes of the two horizontal transmitter loops. These receiver coil pairs are located on symmetry lines through the center of the system and each pair sees identical fields during the on-time of the pulse in all of the transmitter coils. They are wired in opposition to produce zero output during the on–time of the pulses in three orthogonal transmitters. Moreover, this configuration dramatically reduces noise in the measurements by canceling the background electromagnetic fields (these fields are uniform over the scale of the receiver array and are consequently nulled by the differencing operation), and by canceling the noise contributed by the tilt motion of the receivers in the Earth's magnetic field, and greatly enhances receiver sensitivity to the gradients of the target response. BUD is mounted on a small cart to assure system mobility. System positioning is provided by a Real Time Kinematic (RTK) GPS receiver. The system has two modes of operation: (1) the search mode, in which BUD moves along a profile and exclusively detects targets in its vicinity providing target depth and horizontal location, and (2) the discrimination mode, in which BUD is stationary above a target, and determines three discriminating polarizability responses together with the object location and orientation from a single position of the system.

**Figure 1.** Berkeley UXO Discriminator (BUD)

The detection performance of the system is governed by a size-depth curve shown in Figure 2. This curve was calculated for *BUD* assuming that the receiver plane is 0.2 m above the ground. Figure 2 shows that, for example, *BUD* can detect an object with 0.1 m diameter down to the depth of 0.9 m with a depth uncertainty of 10%. Any objects buried at a depth of more than 1.3 m will have a low probability of detection. The discrimination performance of the system is governed by a size-depth curve shown in Figure 3. Again, this curve was calculated for *BUD* assuming that the receiver plane is 0.2 m above the ground. Figure 3 shows that, for example, *BUD* can determine the polarizability of an object with 0.1 m diameter down to the depth of 0.63 m with polarizability uncertainty of 10%. Any objects buried at the depth more than 0.9 m will have a low discrimination probability.

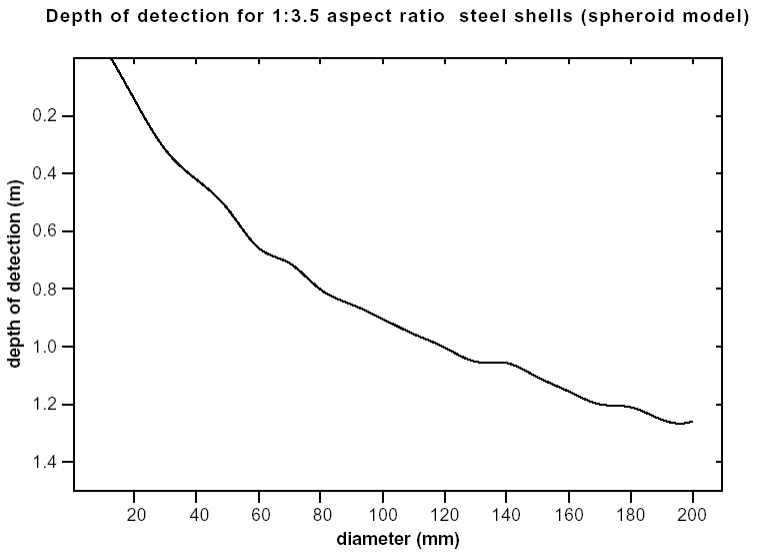


**Figure 2.** 10% uncertainty in location as a function of object diameter and depth of detection for BUD with receivers 0.2 m above the ground

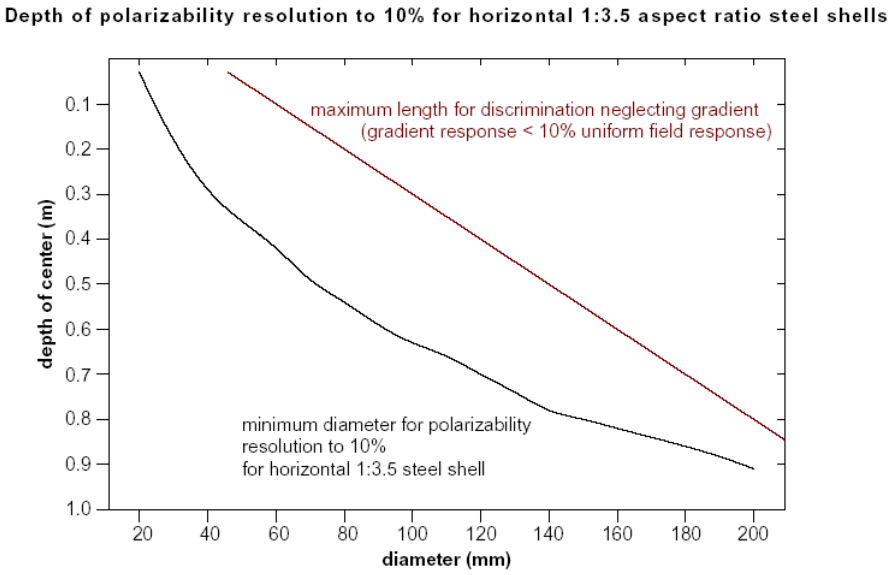


**Figure 3.** 10% uncertainty in polarizability as a function of object diameter and depth of discrimination for BUD with receivers 0.2 m above the ground

Object orientation estimates and equivalent dipole polarizability estimates used for large and shallow UXO/scrap discrimination are more problematic as they are affected by higher order

(non-dipole) terms induced in objects due to source field gradients along the length of the objects. For example, a vertical 0.4 m object directly below the system needs to be about 0.90 m deep for perturbations due to gradients along the length of the object to be of the order of 20 % of the uniform field object response. Similarly, vertical objects 0.5 m, and 0.6 m long need to be 1.15 m, and 1.42 m, respectively, below the system. For horizontal objects the effect of gradients across the object diameter are much smaller. For example, 155 mm and 105 mm projectiles need to be only 0.30 m, and 0.19 m, respectively, below the system. A polarizability index (in $cm^3$), which is an average value of the product of time (in seconds) and polarizability rate (in $m^3/s$) over the 34 sample times logarithmically spaced from 143 to 1300 μs, and three polarizabilities, can be calculated for any object. We used this polarizability index to decide when the object is in a uniform source field. Objects with the polarizability index smaller than 600 $cm^3$ and deeper than 1.8 m below BUD, or smaller than 200 $cm^3$ and deeper than 1.35 m, or smaller than 80 $cm^3$ and deeper than 0.90 m, or smaller than 9 $cm^3$ and deeper than 0.20 m below BUD are sufficiently deep that the effects of vertical source field gradients should be less than 15%. All other objects are considered large and shallow objects. At the moment, interpretation software is available for a single object only. In case of multiple objects the software indicates the possible presence of metallic objects but is unable to provide characteristics of each individual object.

# 2. FIELD SURVEY - YUMA PROVING GROUND – OPEN FIELD AREA

The objective of the Yuma Proving Ground (YPG) Demonstration was to acquire multi-component data with *BUD* over the Open Field Area. The field test was conducted between November 13, 2006 and November 21, 2007, November 27, 2006 and December 13, 2006, and between March 26 and April 14, 2007. The Open Field Area is about 15 acres, and was surveyed with 1 m spacing line spacing in east-west direction, which amounted to 350 lines about 200 m long. In the first part of the survey (November-December 2006) Navcom GPS system was used for navigation. Because of a problem with GPS positioning we couldn't finish the survey at that time, and we returned to Yuma in March 2007. At this time we used the Leica GPS positioning system.

# 3. DATA PROCESSING AND INTERPRETATION

## 3.1 Data Processing

The first step prior to data collection was a system calibration and a background level estimation. We measured the background noise with the transmitters in the off-position and calculated the spectrum for all channels. Then we turned the transmitters on and measured the background field on all channels. This step was repeated at least twice to make sure the background field was stable and could be used as the baseline measurement that was subtracted from the data.

Twelve channels of field data were recorded at a rate of 250 k-samples/second for each of three transmitters. Field data were stacked in a field programmable gate array (FPGA) and transferred to a field laptop computer forming a primitive stack, labeled with header information (instrument position, tilt and heading, odometer, time stamp, channels of transmitter current, etc). An even number of primitive stacks was averaged together to form stacked data for further processing.

The peak transmitter current was estimated from the stacked transmitter current channel record, and the data were normalized by that value. Nominal transmitter shut-off time was estimated, and induction responses were computed at 34 logarithmically spaced times between 143 and 1300 μs, averaged in half-sine windows with widths 10% of the center time after transmitter pulse shut-off. Responses were differenced with background responses collected over a nearby site determined to be relatively free of metallic objects by having a system response which varies little with system translation. Error bars were computed for these based on the scatter in raw 4 μs samples at late time, and used to estimate uncertainties in field inversions of equivalent dipole polarizability responses and object position. These uncertainties are overly optimistic, as a greater source of noise is a variation in the system background response.

In post processing, the data were reprocessed, with the background response for each line of data computed using a trimmed median response at each time and receiver, for each transmitter response. The trimmed median used is the median of all points within 2 median absolute deviations (MAD) of the (untrimmed) median response at each time, receiver, and transmitter. As the background variation is a larger source of uncertainty than the previously mentioned noise estimated from scatter in raw 4 μs, 1.48 times the MAD in individual line responses was used as

the estimated noise level in later processing. The resulting 24 channels of normalized responses were then inverted for candidate object position and principal polarizabilities as a function of time after transmitter shut-off. Data before 140 μs were ignored.

### 3.2 UXO Detection and Discrimination

An object identification program matches measured equivalent dipole polarizabilities to a database of previous measurements of equivalent dipole polarizabilities of known objects and identifies a candidate object as the object(s) corresponding to the closest matching curves from the Calibration Grid and the test pit. This is done by minimizing a robust loss function of the normalized absolute differences (residuals) between the measured values and those in the database weighted inversely by estimated uncertainty in polarizabilities. Plots of principal polarizabilities as a function of time of all objects from the Calibration Grid (132 entries) are in our Yuma Demonstration report from June 2006. When the size-depth requirement (Figures 2 and 3) is satisfied, the polarizabilities are independent of the depth and orientation of the object. For large objects close to the system the principal polarizabilities curves vary depending on the orientation of the object. The identification by polarizability curve matching was described in detail in our Discriminationn report from September 2006, and for convenience it's given again in Appendix A. Columns 4, 10, 11, and 12 of Table 1 in Appendix C were produced using this algorithm.

In addition to the polarizability curve matching identification we also applied an algorithm developed for the Former Camp Sibert data which calculates a probability that an object is a

single UXO using a training data set of known targets. The training data set for this classification consisted of 104 targets from the Calibration Grid and the test pit at YPG, and 103 scrap metal from Camp Sibert. Detailed description of this process is given in Appendix B. Columns 5 and 9 of Table 1 in Appendix C were produced using this algorithm. Column 1 (rank) is based on Column 5. Below is an example of this approach.

The data time interval was sub-divided logarithmically into a number $n_{div}$ of sub-intervals. The product of each principal polarizability with its sample time was averaged over each of these intervals. Since there are three principal polarizabilities, this results in $n_{feat} = 3n_{div}$ reduced data, henceforth called 'features'. An additional feature used in the analysis was a median $\log_e$(magnitude) (in $m^3$), which increased the total number of features $n_{feat}$ to $3n_{div}+1$. The number of sub-divisions $n_{div}$ was chosen using cross validation. The cross validation is an iterative process in which results from a subset of training data are used to predict something about the remaining training data. For the YPG Open Field Area UXO vs. scrap discrimination problem, average cross validated estimated probability of a UXO being scrap ranges from 0.11566 when the number of sub-intervals ($n_{div}$) is 1 (4 features) to 0.04819 for $n_{div}$ = 6 (19 features) which futher lowers to 0.0347707 when responses reserved for calibration are included.

For the UXO training data with $n_{div}$ = 6 the feature vector contains 19 features:

[ -0.370 -0.342 -0.307 -0.270 -0.226 -0.196
-0.291 -0.273 -0.226 -0.168 -0.116 -0.0741
-0.223 -0.211 -0.196 -0.151 -0.105 -0.0700
-8.88 ]

Each row contains six median features at six different times for each of the three principal polarizability curves, and the forth row contains the median $\log_e$(magnitude). The feature median absolute deviations (MADs) are:

[ 0.0470 0.0362 0.0309 0.0327 0.0299 0.0330
0.0397 0.0243 0.0381 0.0562 0.0500 0.0412
0.0495 0.0424 0.0191 0.0343 0.0375 0.0320
1.06 ]

For the scrap training data the median features are:

[ -0.452 -0.404 -0.351 -0.267 -0.191 -0.112
-0.288 -0.256 -0.205 -0.161 -0.117 -0.0602
-0.162 -0.121 -0.0817 -0.0510 -0.0376 -0.0257
-9.38 ]

and MADs are:

[ 0.0721 0.0509 0.0565 0.0527 0.0562 0.0494
0.0721 0.0566 0.0582 0.0573 0.0433 0.0406
0.0951 0.0729 0.0537 0.0357 0.0296 0.0212
1.15 ].

There is a greater spread in the three median principal polarizabilities of the scrap responses than of the UXO responses, and the scrap median log magnitude is slightly smaller. The MADs show greater variability in the scrap features than in the UXO ones, reflecting greater variability in

ratios of scrap principal polarizabilities than in those of UXO. The scrap MAD log magnitude shows slightly greater variability in scrap response vector magnitudes, than in those of UXO.

For the UXO training data the smallest estimated probability of being UXO was 0.109246 (for the M42 shell in cell H03), and the median estimated probability of being UXO was 0.999992, with three out of 130 training examples estimated to have less than 50% probability of being UXO. For the scrap training data the median estimated probability of being UXO was 0.000010 and 4 scrap training examples out of 103 were estimated to have greater than 50% probability of being UXO.

The polarizabilities at the location (757545.266, 3638240.248) were estimated to have a 0.9945 probability of being due to UXO. This was the median probability value among the 628 responses with probability higher than 50% of being UXO, and was chosen as a representative response to use as UXO identification example. A corresponding entry in Table 1 in Appendix C is line 1281:

1281 757545.266 3638240.248 0.999998 0.994528 0.5461 1.20 -41.4 -54.1 O 105mm_M60 ln94inv3.

The values for each feature are shifted by subtracting its median value and normalized by their MADs. The scaled shifted feature vector (SSF_UXO) is:

[ 0.511 0.369 0.210 0.389 0.338 0.599
-0.559 -0.312 -0.217 -0.331 -0.181 -0.723
-1.20 -1.17 -1.14 -0.365 -0.376 -0.824
2.66 ]

when shifted and scaled using the UXO medians and MADs for computing its likelihood as UXO.

When it is shifted and scaled using the scrap medians and MADs for computing its likelihood as scrap, the scaled shifted feature vector (SSF_scrap) is:

[ 1.48 1.46 0.896 0.197 -0.452 -1.31

-0.357 -0.431 -0.496 -0.455 -0.199 -1.08

-1.26 -1.93 -2.54 -3.15 -2.75 -3.33

2.90 ]

On the basis of median and MAD polarizability time products alone, it is evident that it is less like a typical scrap response, than a typical UXO.

In computing the UXO and scrap empirical distributions for the example given above (ln94inv3), these scaled shifted feature vectors are subtracted from the scaled shifted feature vectors of the different UXO and scrap training data, respectively,and then the quadratic form

$$(v_j - v_i)^t \, (C^{(class)})^{-1} \, (v_j - v_i)$$

is calculated. $v_j$ is the ln94inv3 feature vector and $v_i$ are the feature vectors from the class having its feature vector distribution being modelled using Eq. B.2, t denotes transpose. $C^{(class)}$ is the class feature covariance matrix, and (class) is either UXO or scrap. The quadratic forms are then multiplied by $(\tilde{n}^{(class)})^{(2/n_{feat})/(3+n_{feat})}$ and added to 1 to form the denominator of the term on the right hand side of Eq. B.2. In case of UXO $(\tilde{n}^{(class)})^{(2/n_{feat})/(3+n_{feat})} = 0.07087$, while in case of scrap $(\tilde{n}^{(class)})^{(2/n_{feat})/(3+n_{feat})} = 0.06904$.

For example, the closest UXO training response in quadratic form to ln94inv3 is MK118_Rockeye_L01a which has a scaled shifted feature vector of:

[ 0.985 0.407 -0.0368 -0.0162 -0.0657 -0.00973

1.11 -0.682 -1.38 -1.37 -1.55 -2.09

0.457 0.129 0.008 -0.592 -0.989 -1.48

-1.05 ]

which when differenced with SSF_UXO and used in the quadratic form with the UXO inverse covariance matrix results in a value of 304.15. It gives a denominator of 1 + 21.56 in Eq. B.2 when multiplied by 0.07087. A coefficient K in Eq. B.2 is calculated using Eq. B.3. The square root of the determinant of the UXO response covariance matrix $C^{(UXO)}$ is $4.0675*10^{-15}$, hence K = $1/(66^{(20/19)}*4.0675*10^{-15}) = 2.988*10^{12}$, and the largest term is Eq. B.2 is $K*1/(1+21.56)^{[(19+3)/2]}$ = $2.988*10^{12} *1.2980*10^{-15} = 0.003878$.

The closest scrap training response in quadratic form to ln94inv3 is ln3qSE-67inv3 which has a scaled shifted feature vector of:

[ 1.25 1.18 0.699 0.00107 -0.268 -0.331

-0.651 -0.9 -1.15 -1.16 -1.33 -1.31

-0.618 -1.02 -1.48 -2.24 -2.23 -2.47

2.34 ]

which when differenced with SSF_scrap and used in the quadratic form with the scrap inverse covariance matrix results in a value of 337.82. It results in a denominator of 1 + 23.32 in Eq. B.2 when multiplied by 0.06904. The square root of the determinant of the scrap response covariance matrix $C^{(scap)}$ is $1.0962*10^{-14}$, K = $1/(53^{(20/19)}*1.0962*10^{-14}) = 1.3966 *10^{12}$, and the largest term is Eq. B.2 is $K*1/(1+23.32)^{[(19+3)/2]} = 1.3966*10^{12} *5.6807*10^{-16} = 0.000793$. Thus the largest term in the UXO empirical distribution evaluated at the polarizability time products of

inversion ln94inv3 is 0.003878/0.000793 = 4.89 times larger than the largest term in the scrap empirical distribution evaluated for the same inversion file.

Summing terms in Eq. B.2 gives

$$f^{(UXO)}(v_{ln94inv3}{}^{(UXO)}) = 4.866$$

and

$$f^{(scrap)}(v_{ln94inv3}{}^{(scrap)}) = 0.6200,$$

with probability of being UXO given by the complement of expression Eq. B.5, namely $\alpha^2 * f^{(UXO)}/[\alpha^2 * f^{(UXO)} + f^{(scrap)}] = 23.16*4.866/[23.16*4.866+0.6200] = 112.7/113.3 = 0.9945$, so the object is classified as UXO, with probability of 0.9945 (99.45%).

Appendix C contains discrimination results from the Open Field Area. The table contains an entry for every location for which BUD indicates an object presence with following columns: (1) Rank (small number when not UXO, high number for UXO), (2) Easting (m), (3) Northing (m), (4) Probability that a metallic object is present, (5) Probability that the object is a single UXO, (6) Depth (m), (7) Azimuth (degrees, relative to North), (8) Dip angle (degrees, relative to horizontal), (9) Classification (O=UXO, C/O=clutter or clutter and UXO, B=empty), (10) Identification (name of most likely type of UXO – first match), (11) Identification (name of most likely type of UXO – second match), (12) Identification (name of most likely type of UXO – third match), and (13) LBL file name. The table contains 1594 entries, which is about 100 anomalies/acre.

Figure 4 is a detection map of the Open Field Area. A detection threshold for the first part of our survey was 3 while for the second part of the survey was 10. This was due to a significant increase in the background response possibly due to weather changes between November 2006 and March 2007. Red and yellow colors indicate the background response while green and blue colors indicate locations of metallic objects. We identified 1594 possible metallic objects.

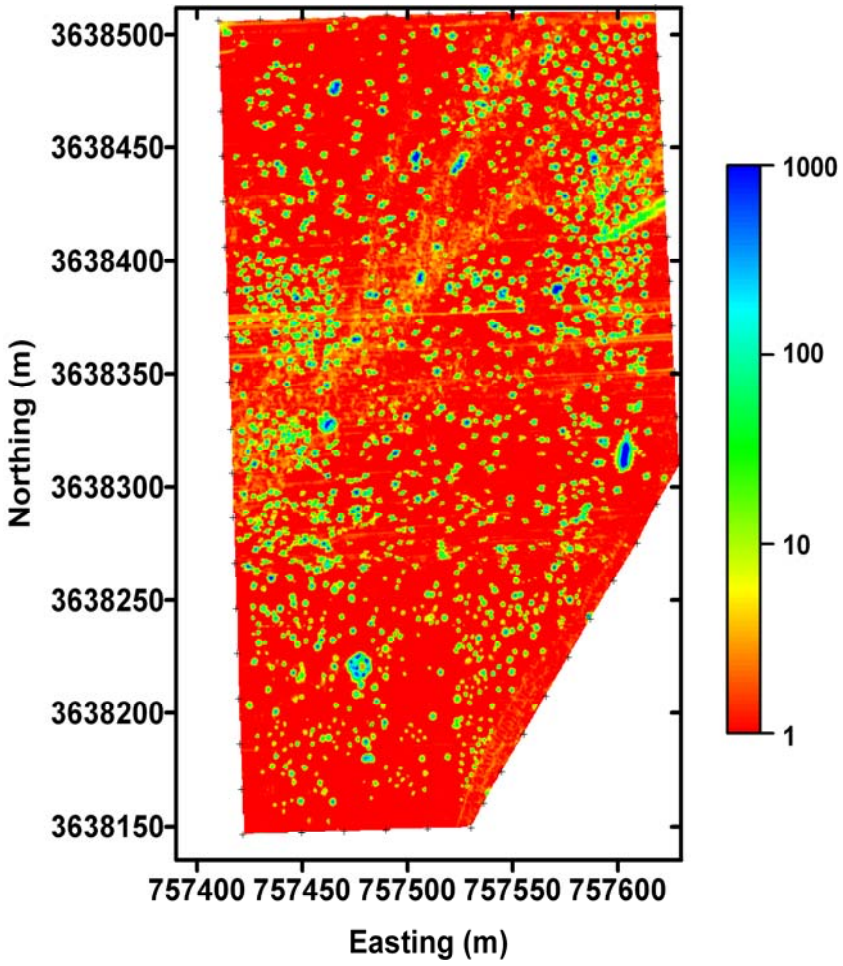


**Figure 4:** Open Field Area detection map. Red and yellow colors indicate background response, green and blue colors indicate locations of metallic objects.

Figure 5 shows by colors a probability that an identified metallic object is a single UXO. Values are given in fractions, i.e. 1=100%, 0.1=10%. 628 objects (40%) have probability higher than

50% of being single UXO. 80% of these objects (506 objects) have probability higher than 90% of being a single UXO. Remaining 966 objects (60%) have probability less than 50% being a single UXO. Most of these objects (864 objects) have the probability less than 10% of being a single UXO. If one looks at this cluster in more details, 83% of these objects (714 objects) have the probability less than 1% of being single UXO.

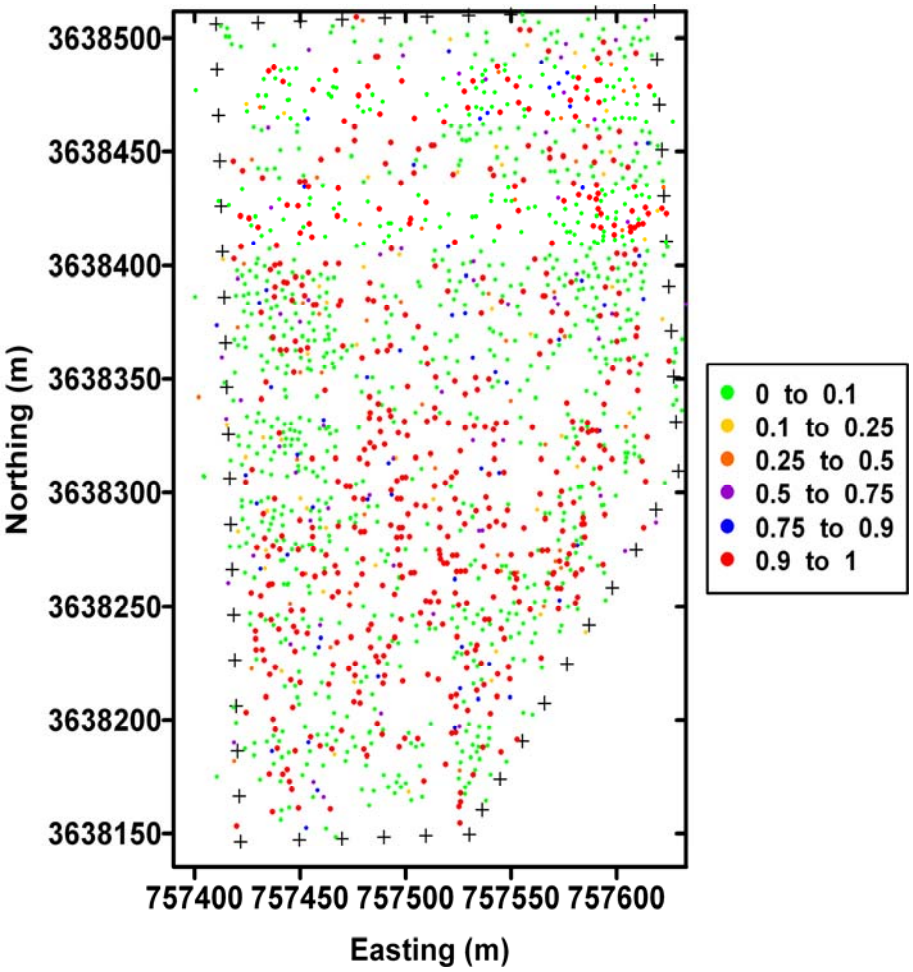


**Figure 5:** Probability of a metallic object being a single UXO. Values are given in fractions, i.e. 1=100%, 0.1=10%

This distribution shows two main object clusters – one with the probability higher than 90% that an object is UXO, and the second one with the probability less than 10% (1%) that an object is UXO. This leaves a small percentage of object responses that might be examined in more details for more accurate identification.

Figure 6 show that according our interpretation most objects are shallow. 72% or 1145 objects have interpreted depth less than 0.3 m. Only about 2% of the objects are buried deeper than 1 m.

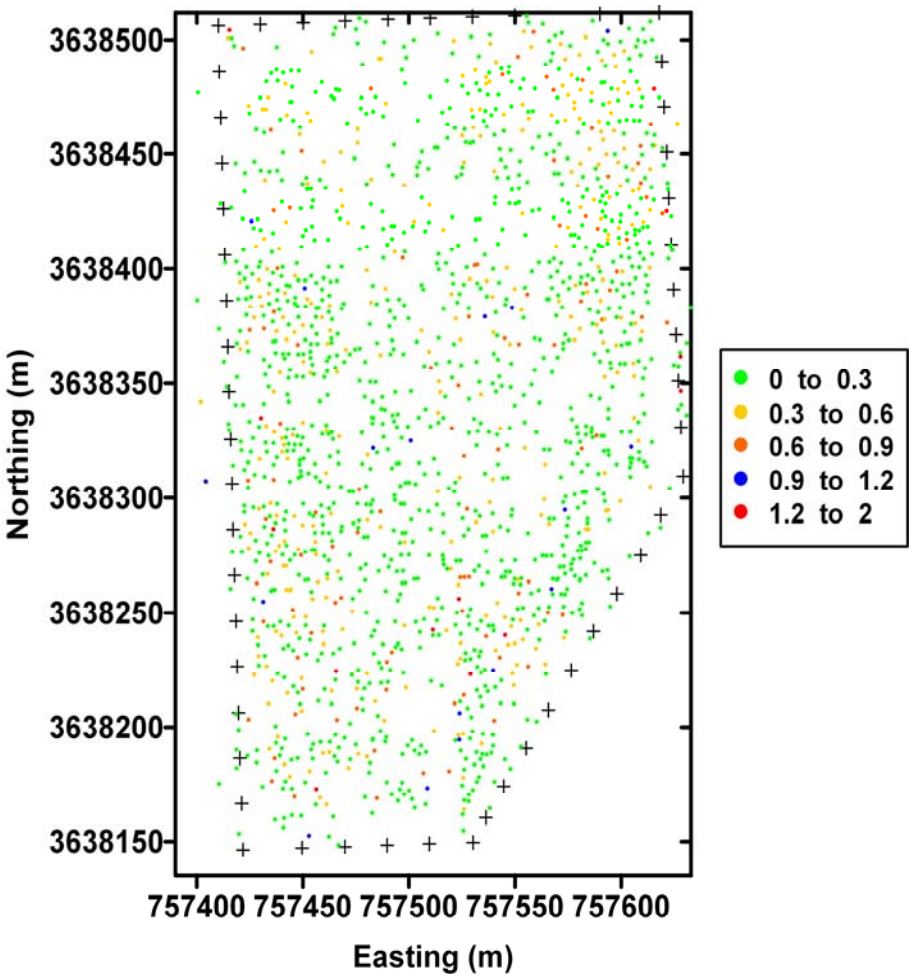


**Figure 6:** Distribution of objects as a function of depth (in m).

Figure 7 is a 'priority dig map' where in blue we show locations identified as scrap and therefore safe to leave in the ground while in red we show locations of UXO that need to be dug. The plot contains 607 pieces of scrap (38%) and 987 UXO (62%). There is 1 in 1000 chance that a piece of scrap could be an UXO.

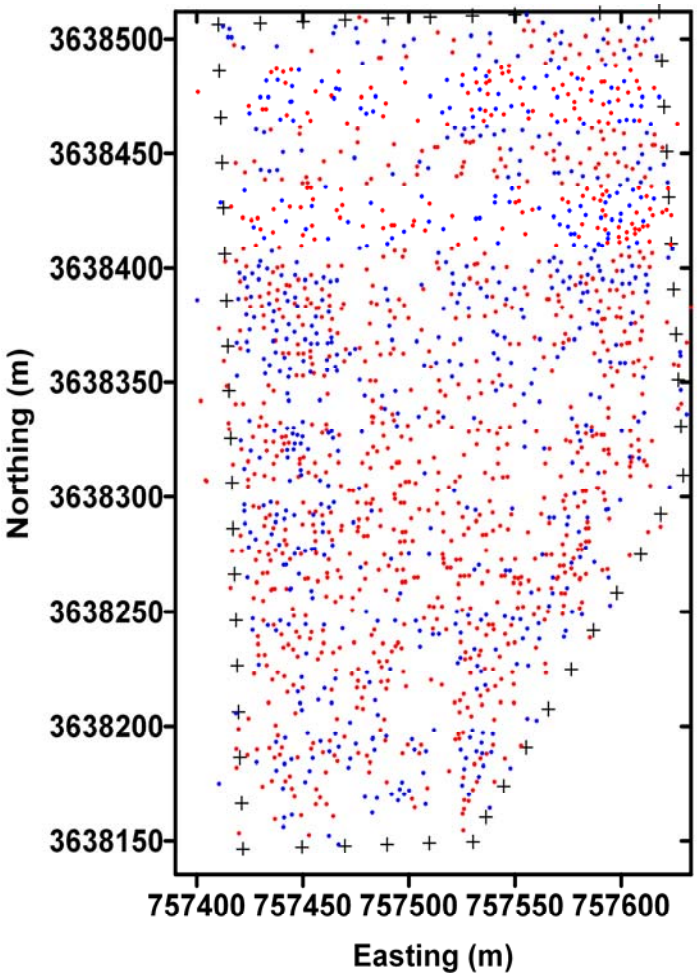


**Figure 7:** Distribution of objects as scrap (blue dots) and UXO (red dots). There is 1 in 1000 chance that a piece of scrap could be an UXO. There are 607 scrap objects (38%) and 987 UXO (62%).

### 3.3 Estimation of Receiver Operating Characteristic (ROC) Curves

This section describes how we estimated ROC curves without knowing the ground truth. This approach is applicable in cases when the ground truth is not known.

Given a set of objects with probability p of being UXO and a threshold $p_0$ for considering object with $p \geq p_0$ to be identified as UXO, if $p \geq p_0$ then all are considered UXO. However, on average a fraction (1-p) of them were not actually UXO, so they were false alarms. If $p_0 > p$ then all are considered non-UXO (scrap), but on average a fraction p of them were actually UXO, so these are missed identifications. Extending this to a set of m objects with probabilities $p_i$, i=1, m of being UXO, the expected overall false alarm rate is

$$\frac{1}{m}\sum_{p \geq p_0} 1 - p_i \qquad (1)$$

and the expected overall false negative rate is

$$\frac{1}{m}\sum_{p < p_0} p_i \qquad (2)$$

where these rates are per total number of targets. Given the same set of identification probabilities, the expected number of UXO is

$$\sum_i p_i \pm \sqrt{\sum_i p_i - p_i^2}\,, \qquad (3a)$$

and of non-UXO is

$$\sum_i 1 - p_i \pm \sqrt{\sum_i p_i - p_i^2} \qquad (3b)$$

where the uncertainties are given by the square root of the sum of the variances of the m terms in the sums, and are the same for the two sums. Using these to renormalize Eqs. (1) and (2), the expected false alarm rate per non-UXO is

$$\frac{\sum_{p_i \geq p_0} 1 - p_i}{\sum_i 1 - p_i}, \tag{4}$$

and the expected false negative rate per UXO is

$$\frac{\sum_{p_i < p_0} p_i}{\sum_i p_i}. \tag{5}$$

ROC curves for detection and identification of objects in the Open Field Area are shown in Figures 8 and 9.

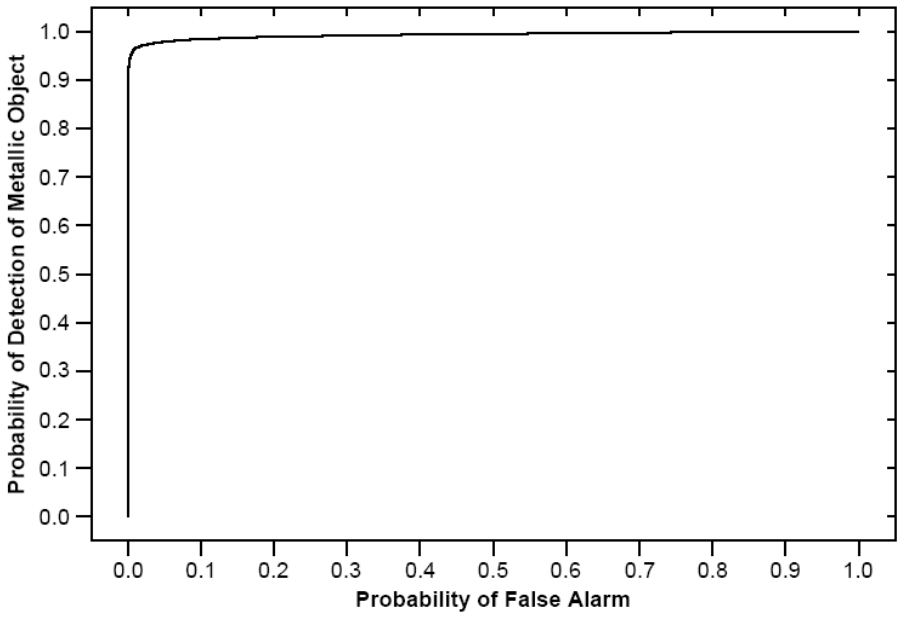


**Figure 8:** ROC curve for detection in the Open Field Area

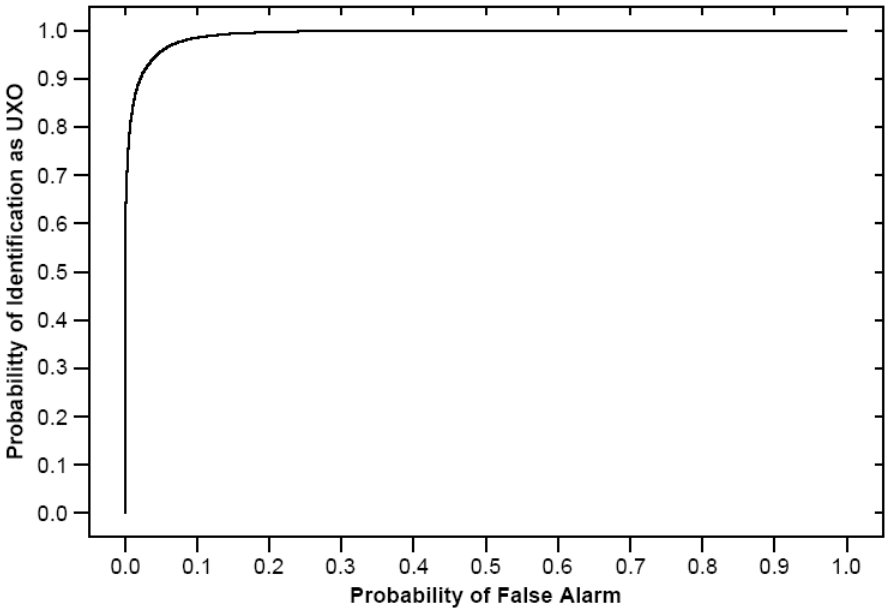


**Figure 9:** ROC curve for identification in the Open Field Area

## 4. CONCLUSIONS

The detection threshold for the Open Field Area survey was based on the background variation in an area free of metallic objects. Soundings with signal levels above the detection threshold were inverted for equivalent dipole polarizability and position. The objects were identified by comparison to a catalogue of responses collected over the Calibration Grid and the test pit. Variation of the catalogue polarizability responses within classes of 'identical' objects in different orientations was characterized in terms of covariance matrices for the relative offsets and relative residual magnitudes between catalogue responses and the median response of their class. Individual class relative offset covariance matrices were averaged to obtain an overall average relative offset covariance matrix. The relative residual magnitudes were normalized by

their class average relative residual magnitudes, and the normalized relative residuals modeled as a gamma distributed random variable of common distribution over all classes and times. Distance between two responses was then measured in terms of the relative offset between the two responses weighted by the inverse average relative offset covariance matrix and the sum of the normalized relative residual magnitudes. Soundings were then classified by finding three object classes with responses closest to the measured sounding. Nominal identification probabilities were assigned to the three closest classes, based on the likelihood of a sounding with the observed distance from the class median response, assuming that each of the three classes was, in turn, the correct class.

For probability estimates that a metallic object is a single UXO we used algorithm developed for the Former Camp Sibert data set using training approach with a set of known objects. This probability was used to create a 'priority dig list' and identify 'stop digging' point for the Open Field Area. Our interpretation indicates that from 1594 possible metallic objects 607 are scrap metals (38%) and 987 UXO (62%).

The field survey with BUD at the Yuma Proving Ground was successful. BUD performed extremely well. BUD is easy to use and requires low maintenance - transmitter batteries last for three hours, while acquisition system batteries last for six hours. The system locations were recorded with RTK GPS system. We collected a large amount of multiple-transmitter multiple-receiver data over the Open Field Area. All data will be available to other researchers upon request.

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# APPENDIX A

## IDENTIFICATION BY POLARIZABILITY CURVE MATCHING

### A.1 Introduction

The inductive response of isolated conductive objects is approximated using time dependent equivalent magnetic dipoles polarized in proportion to the peak inducing magnetic field at the object center, for inducing magnetic fields of a given time dependence. Since the inducing magnetic field may be in any direction, and the induced response dipole will be in some direction, the proportionality is given by a matrix relating induced dipole direction and strength to inducing magnetic field direction and strength. For magnetic induction receivers that are close to the object compared to its scale, and for objects that are large compared to the scale of variation of the inducing fields, higher order terms may be important, but will be neglected here. Estimation of equivalent dipole polarizability responses from magnetic induction data was described Smith and Morrison (2004). Since magnetic induction receivers are sensitive to changes in magnetic induction rather than the magnetic field itself, they are sensitive to changes in an induced equivalent magnetic dipole rather than the dipole itself, so properly speaking, we estimate the rate of dipole polarizability change rather than dipole polarizability itself, but for brevity, we will refer to it as a dipole polarizability.

The equivalent dipole polarizability response of an object to magnetic source fields of a given time dependence, is a real symmetric (time dependent) matrix, hence it may be diagonalized by rotating into its principal coordinates, corresponding to principal axes of the object. For primary

fields polarized in one of the principal coordinate directions, the induced response dipoles are in the same direction as the inducing field. For an ellipsoidal conductive object, the inductive principal axes correspond to the axes of the ellipsoid. For rotationally symmetric objects, such as much ordnance, the axis of symmetry constitutes one principal axis, and the other two may be any two orthogonal directions perpendicular to the axis of symmetry, and have identical polarizability responses in all directions perpendicular to the axis of rotational symmetry. For irregular, highly permeable (e.g., steel) conductive objects, inductive principal directions are expected to be roughly in the long and short directions of the object, if these are easily discernible and at right angles, together with a third axis at the right angle to these. For irregular objects, for a given time dependence of source field, the principal axes of the inductive response may change with time after termination of the source field. For simplicity, principal directions will be assumed to be time independent here. For equivalent dipole polarizability matrices that have been estimated without constraining principal directions to be time independent, we stack the polarizability matrices from all times under consideration, each weighted reciprocally by the sum of the estimated squared errors in the three diagonal elements, and use the principal coordinates of the stacked polarizability matrix as principal coordinates for the polarizability matrices at all times.

For object classification, objects will be characterized by their induced dipole polarizability responses in their three principal directions $p_k(t)$ for $k$ = 1,3 (A-m$^2$/s/(A/m) = m$^3$/s). In the limit of equivalent dipole polarizability responses to source fields from transmitters that are far from the object, obtained from receivers that are far from the object, the equivalent dipole polarizability response is well defined as the induced dipole response due to uniform magnetic

source fields of the given time dependence. In practice, when a polarizability response matrix is estimated from receivers and sources close to an object compared to its scale, and higher order terms are neglected, estimated polarizabilities vary with object position and orientation. As a step towards accounting for this variability we have made a catalogue of estimates of object principal polarizabilities as a function of time for classes of UXO and other test objects. A class is a set of hypothetically identical objects such as a particular type of UXO, wire loops of common gauge and diameter, or shot puts of a common weight. The responses were obtained for objects buried in the Calibration Grid and the test pit.

### A.2 Object Catalog

A set of responses was collected over 16 types of UXO varying in size from 20 mm to 155 mm in the Calibration Grid and a test pit. Data were differenced with a reference site measurement and then inverted for equivalent dipole polarizability and location using the method of Smith and Morrison (2004), but using the empirical distribution evolutionary algorithm of Smith, et al. (1994) (also, Smith and Morrison, 2005) in place of the downhill simplex method used by Smith and Morrison (2004). Principal equivalent dipole polarizability responses as a function of time were then collected for soundings above all examples of the same class (e.g, UXO class), with responses from the object in six orientations for most UXO. This resulted in total of 16 classes.

### A.3 Catalogue Statistics

For each object principal polarizability response, the three principal polarizabilities were sorted into three categories based on (1) smallest, (2) medium, and (3) largest average magnitudes, when weighted reciprocally by the average estimated uncertainty in the three polarizabilities and averaged over time. These are denoted $p_{ij}^{(1)}(t)$, $p_{ij}^{(2)}(t)$, and $p_{ij}^{(3)}(t)$ respectively, for the $i$'th member of the $j$'th class. Within each class, at each sample time, the three polarizabilities are then sorted across the different members of the class, to obtain median responses $\hat{\bar{p}}_j^{(1)}(t)$, $\hat{\bar{p}}_j^{(2)}(t)$, and $\hat{\bar{p}}_j^{(3)}(t)$ for the $j$'th class.

When polarizabilities are estimated simultaneously with location, an error in estimated location affecting the estimated distance between object and receivers, may translate directly into an error in the scale of the inverted polarizabilities. To better model this, statistics are computed separately for the relative offset of polarizability curves from a median curve, and the residuals after subtraction of median curve appropriately scaled. The relative offset of a polarizability response $p^{(k)}(t)$ with respect to $\hat{\bar{p}}_j^{(k)}(t)$ is

$$\beta_j^{(k)} \equiv \frac{1}{n_t} \sum_t \frac{p^{(k)}(t) - \hat{\bar{p}}_j^{(k)}(t)}{\hat{\bar{p}}_j^{(k)}(t)}. \tag{A.1}$$

For this value,

$$\sum_t \frac{p^{(k)}(t)}{\hat{\bar{p}}_j^{(k)}(t)} = \sum_t \frac{\beta_j^{(k)} \hat{\bar{p}}_j^{(k)}(t) + \hat{\bar{p}}_j^{(k)}(t)}{\hat{\bar{p}}_j^{(k)}(t)}, \tag{A.2}$$

and $(1+\beta_j^{(k)})\hat{\bar{p}}_j^{(k)}(t)$ is a least squares fit to $p^{(k)}(t)$ using $1/\hat{\bar{p}}_j^{(k)}(t)$ as weights. The residual polarizability left over is simply

$$r_j^{(k)}(t) \equiv p^{(k)}(t) - [1+\beta_j^{(k)}]\,\hat{\bar{p}}_j^{(k)}(t), \tag{A.3}$$

with a relative residual polarizability of $s_j^{(k)}(t) \equiv r_j^{(k)}(t)/\hat{\bar{p}}_j^{(k)}(t)$. For each class, we estimate the elements of the 3x3 matrix relative offset covariance $\mathbf{cov}(\beta_{(\mathrm{clj})})$ as

$$\mathrm{cov}(\beta_{(\mathrm{clj})})_{kl} \equiv \sum_i \beta_{ij}^{(k)}\beta_{ij}^{(l)}/(n_{\mathrm{clj}}-1), \tag{A.4}$$

where $\beta_{ij}^{(k)}$ is $\beta_j^{(k)}$ evaluated for the $i$'th member of the $j$'th class, (*i.e.*, Eq. A.1) with $p^{(k)}(t)$ set equal to $p_{ij}^{(k)}(t)$. Similarly, the mean (absolute) relative residual $k$'th polarizability for the $j$'th class at time $t$,

$$\overline{|\,s_{(\mathrm{clj})}^{(k)}(t)\,|} \equiv \frac{n_t^{1/2}\sum_i |s_{ij}^{(k)}(t)|}{[(n_t-1)(n_{\mathrm{clj}}-1)\,n_{\mathrm{clj}}]^{1/2}}, \tag{A.5}$$

where $s_{ij}^{(k)}$ is $s_j^{(k)}$ evaluated for the $i$'th member of the $j$'th class. The summations are over the $n_{\mathrm{clj}}$ members of the $j$'th class. Adjustments have been made for the loss of degrees of freedom in fitting $\hat{\bar{p}}_j(t)$ and $\beta_{ij}^{(k)}$.

Because of a relatively small number of members of each class, we use the class relative offset covariance and absolute relative residual polarizabilities to adjust the scales of individual relative offsets and residual polarizabilities, before estimating parameters of their distributions, and assume a common distribution over all classes for the de-scaled quantities. For polarizability

response $p^{(k)}(t)$ with $k=1,3$ and with $\beta_j^{(k)}$ computed from Eq. A.1 the squared de-scaled relative offset (relative to class $j$ median polarizability $k$) is

$$|\tilde{\beta}_j|^2 \equiv \beta_j^T \mathbf{cov}(\beta_{(\mathrm{clj})})^{-1} \beta_j, \tag{A.6}$$

where $\beta_j$ is a column vector with elements $\beta_j^{(k)}$, ($k=1,3$), $^T$ denotes transpose, and the inverse covariance matrix is used. An absolute value of the de-scaled average residual polarizability response is

$$\overline{|\tilde{s}_j|} \equiv \frac{1}{3n_t} \sum_{t,k} \frac{|s_j^{(k)}(t)|}{|s_{(\mathrm{clj})}^{(k)}(t)|}. \tag{A.7}$$

For catalogue members, we model $\left|\tilde{\beta}_j\right|^2$ (Eq.A.6) and $\overline{|\tilde{s}_j|}$ (Eq. A.7) as $\Gamma$ distributed random variables, and estimate their distribution parameters $\alpha_{\tilde{\beta}}$, $\lambda_{\tilde{\beta}}$, $\alpha_{\tilde{s}}$, $\lambda_{\tilde{s}}$ from the sums of $\left|\tilde{\beta}_j\right|^2$ and of $\overline{|\tilde{s}_j|}$, the sums of their squares, and the sums of their logarithms, over all members of the catalog. Maximum likelihood estimates of $\Gamma$ distribution parameters (see Section A.6) for the squared de-scaled relative offset, and for the element average de-scaled absolute residual polarizability, are $\alpha_{\tilde{\beta}}$=1.547, $\lambda_{\tilde{\beta}}$= 0.5158, $\alpha_{\tilde{s}}$=3.881, and $\lambda_{\tilde{s}}$=3.825, respectively. Parameters $\alpha_{\tilde{\beta}}$ and $\lambda_{\tilde{\beta}}$ are close to values appropriate for the sum of squares of three unit normal variables ($\alpha_{\tilde{\beta}}$ = 1.5 and $\lambda_{\tilde{\beta}}$= 0.5). The correspondence between $\Gamma$ distributed variables, and $\chi^2$ distributed variables, suggests forming a single statistic from a weighted sum of $\left|\tilde{\beta}_j\right|^2$ (Eq. A.6) and $\overline{|\tilde{s}_j|}$ (Eq. A.7) as

$$u_j \equiv \lambda_{\tilde{\beta}} |\tilde{\beta}_j|^2 + \lambda_{\tilde{s}} \overline{|\tilde{s}_j|}. \tag{A.8}$$

Assuming $|\tilde{\beta}_j|^2$ and $\overline{|\tilde{s}_j|}$ are independent, $u_j$ is distributed as a $\Gamma(x, \alpha_{\tilde{\beta}} + \alpha_{\tilde{r}}, 1)$ variable.

The adjusted class relative offset covariances (Eq. A.4) and mean relative residual polarizabilities (Eq. A.5), are used, through statistic (Eq. A.8), to evaluate the likelihood of an identification once it is made. However, for identification itself, it is desirable to average covariances (Eq. A.4) and mean absolute residuals (Eq. A.5) over all classes so that a consistent norm can be used in evaluating the distance of a given polarizability response from all the polarizability responses in a catalogue of identified responses, reducing bias towards classes with large variations in their catalogue responses. Catalogue average values of $\mathbf{cov}(\beta_{(\mathrm{clj})})$ and $\overline{|s^{(k)}_{(\mathrm{clj})}(t)|}$ are

$$\mathbf{cov}(\beta_{(\mathrm{cat})}) \equiv \sum_j n_{\mathrm{clj}} \mathbf{cov}(\beta_{(\mathrm{clj})}) / n_{\mathrm{cat}}, \tag{A.9}$$

and

$$\overline{|s^{(k)}_{(\mathrm{cat})}(t)|} \equiv \sum_j n_{\mathrm{clj}} \overline{|s^{(k)}_{(\mathrm{clj})}(t)|} / n_{\mathrm{cat}}, \tag{A.10}$$

with $n_{\mathrm{cat}}$ the total number of object responses in the catalog.

### A.4 Object Identification

Each differenced response, that has a signal strength index greater than some threshold, is inverted for an equivalent dipole polarizability response $p^{(k)}(t)$, $k = 1,3$ and equivalent dipole position. When the dipole position is inside of a footprint of BUD's horizontal loop transmitters, classification of the prospective object is undertaken. For identification, the polarizability response is compared with all responses in the identified response catalog. To do this, the

analogue of relative polarizability offset $\beta_{ij}^{(k)}$ (Eq. A.1) is computed for $p^{(k)}(t)$ relative to each catalogue response $p_{ij}^{(k)}(t)$, reciprocally weighted by the catalogue object's class median response $\hat{\bar{p}}_j^{(k)}(t)$;

$$\hat{\beta}_{ij}^{(k)} \equiv \frac{1}{n_t}\sum_t \frac{p^{(k)}(t) - p_{ij}^{(k)}(t)}{\hat{\bar{p}}_j^{(k)}(t)} \tag{A.11}$$

In addition to computing $\hat{\beta}_{ij}(k)$ for $p^{(k)}(t)$ with each catalogue response, an analogue to the average de-scaled absolute residual (Eq. A.7) de-scaled with catalogue average $\overline{|s_{(\mathrm{cat})}^{(k)}(t)|}$ is used. The residual with respect to each shifted catalogue response is computed as

$$r_{ij}^{(k)}(t) \equiv p^{(k)}(t) - [1 + \hat{\beta}_{ij}^{(k)}]\, p_{ij}^{(k)}(t). \tag{A.12}$$

The scales of the catalogue average relative residuals $\overline{|s_{(\mathrm{cat})}^{(k)}(t)|}$ already encompass the effects of average size uncertainties in polarizability. To down weight prospective object polarizability responses with larger than average errors, reciprocal squared weights

$$w_{(\mathrm{cat})}^{(k)}(t)^2 \equiv p^{(k)}(t)^2\, \overline{|s_{(\mathrm{cat})}^{(k)}(t)|}^2 + \max(0, e^{(k)}(t)^2 - \bar{e}_{cat}^{(k)}(t)^2) \tag{A.13}$$

are computed, where $e^{(k)}(t)$ are the estimated uncertainties in $p^{(k)}(t)$, and $\bar{e}_{cat}^{(k)}(t)$ are the uncertainties in $p_{ij}^{(k)}(t)$ averaged over all catalogue responses, and the down weighted analogue of $\overline{|\tilde{s}_j|}$ (Eq. A.7) is formed as

$$\overline{|\tilde{s}_{(\mathrm{cat})ij}|} \equiv \frac{1}{3n_t}\sum_{t,k} \frac{|r_{ij}^{(k)}(t)|}{w_{(\mathrm{cat})}^{(k)}(t)}. \tag{A.14}$$

For polarizabilities with uncertainties $e^{(k)}(t) \le \bar{e}_{(\mathrm{cat})}^{(k)}(t)$, $\overline{|\tilde{s}_{(\mathrm{cat})ij}|}$ is similar to $\overline{|\tilde{s}_j|}$ (Eq. A.7) computed with catalogue mean relative residual (Eq. A.10) substituted for the class mean relative

residual (Eq. A.5) in the denominator of Eq. A.7, and using an $\hat{s}_{ij}^{(k)}(t)$ computed relative to class member polarizability $p_{ij}^{(k)}(t)$ in place of $s_j^{(k)}(t)$ in the numerator of Eq. A.7, which was computed relative to class median polarizability $\hat{\bar{p}}_j^{(k)}(t)$. For object classification, in analogy to $u_{ij}$ (Eq. A.8), the distance between the polarizability response $p^{(k)}(t)$ and each catalogue response is measured by

$$u_{ij} \equiv \lambda_{\tilde{\beta}} \hat{\beta}_{ij}^T \mathbf{cov}(\beta_{(\mathrm{cat})})^{-1} \hat{\beta}_{ij} + \lambda_{\tilde{s}} |\overline{\tilde{s}_{(\mathrm{cat})ij}}|. \tag{A.15}$$

For each class, the member with smallest $u_{ij}$ is found, and the three classes $j^{(1)}$, $j^{(2)}$, $j^{(3)}$ with smallest member minimum value are selected as possible identifications of the object. That is, the three classes with a member closest in $u_{ij}$ (Eq. A.15) to the response $p^{(k)}(t)$ are found. This was done, as an example, for the responses of the objects comprising the catalog (objects from the Calibration Grid and the test pit), for each object, omitting the object's own polarizability response from those it is compared against in the identification step.

### A.5 Nominal Identification Probabilities

Since the distribution of $|\tilde{\beta}_j|^2$ (Eq. A.6) and $|\overline{\tilde{s}_j}|$ (Eq. A.7) has been evaluated for catalogue responses relative to class median responses, it is more convenient to evaluate the probability of a class identification based on offsets and residuals relative to class medians rather than relative to class members. For prospective object polarizabilities with large uncertainties (compared to the catalogue average uncertainties), the larger uncertainties must be accounted for as they were in forming $|\overline{\tilde{s}_{(\mathrm{cat})ij}}|$ (Eq. A.10). Squared reciprocal weights

$$w_{(\mathrm{clj})}^{(k)}(t)^{\,2} \equiv \hat{\bar{p}}_j^{(k)}(t)^{\,2}\,\overline{|\,s_{(\mathrm{clj})}^{(k)}(t)\,|}^{\,2} + \max(0, e^{(k)}(t)^2 - \bar{e}_{cat}^{(k)}(t)^{\,2}), \tag{A.16}$$

are computed, and used to form

$$\overline{|\,\tilde{s}_{(\mathrm{clj})}\,|} \equiv \frac{1}{3n_t}\sum_{t,k}\frac{|\,r_j^{(k)}(t)\,|}{w_{(\mathrm{clj})}^{(k)}(t)}, \tag{A.17}$$

which, for polarizabilities with uncertainties $e^{(k)}(t)^2 \le \bar{e}_{(\mathrm{cat})}^{(k)}(t)^2$, is identical to $\overline{|\,\tilde{s}_j\,|}$ (Eq. A.7). This is used to form

$$\tilde{u}_j \equiv \lambda_{\tilde{\beta}}\,|\,\tilde{\beta}_j\,|^2 + \lambda_{\tilde{s}}\,\overline{|\,\tilde{s}_{(\mathrm{clj})}\,|}. \tag{A.18}$$

We neglect the difference in treatment of data with large uncertainties, and treat $|\,\tilde{\beta}_j\,|^2$ and $\overline{|\,\tilde{s}_{(\mathrm{clj})}\,|}$ as independent, so that $\tilde{u}_j$ is distributed as a $\Gamma(x, \alpha_{\tilde{\beta}} + \alpha_{\tilde{r}}, 1)$ variable. The probability of values as large as $\tilde{u}_j$ is given by the complementary incomplete gamma function, $\mathrm{P}(x \ge \tilde{u}_j) = \mathrm{Q}(\alpha_{\tilde{\beta}} + \alpha_{\tilde{r}}, \tilde{u}_j)$, under the hypothesis that the unidentified polarizability response is due to an object of class $j$. Such a treatment neglects the uncertainty in distribution parameters $\alpha_{\tilde{\beta}}$, $\alpha_{\tilde{s}}$, $\lambda_{\tilde{\beta}}$, and $\lambda_{\tilde{s}}$ – a fairly small neglect given the number of responses entering in their estimation. It also neglects the uncertainty in $\mathbf{cov}(\beta_j)$ and $\overline{|\,s_{(\mathrm{clj})}^{(k)}(t)\,|}$ which are used to scale the relative offsets and relative residual polarizabilities entering $u_{ij}$ (Eq. A.8) through Eq. A.6 and Eq. A.7. These have been estimated from only the $n_{(\mathrm{clj})}$ members of the $j$'th class. An approximate correction for this is to treat $\tilde{u}_j + \alpha_u/n_{(\mathrm{clj})}$ as a $\Gamma(x, \alpha_u \cdot (1 + n_{(\mathrm{clj})})/n_{(\mathrm{clj})}, 1)$ distributed variable, where $\alpha_u = \alpha_{\tilde{\beta}} + \alpha_{\tilde{r}}$, so

$$\mathrm{P}(x \ge \tilde{u}_j) \approx \mathrm{Q}(\alpha_u \cdot (1 + n_{(\mathrm{clj})})/n_{(\mathrm{clj})}, \tilde{u}_j + \alpha_u/n_{(\mathrm{clj})}), \tag{A.19}$$

where $Q$ is the complimentary incomplete gamma function (e.g., Press, *et al.*).

Equation A.19 gives the probability that a level of $\tilde{u}_j$ as large as is observed would be observed when identification $j$ is correct. For the three classes with best fitting members, we take this as the nominal probability that identification $j$ is correct, and the maximum of the three values $\max(\mathrm{P}(x \geq \tilde{u}_j))$, $[\, j \varepsilon \{ j^{(1)}, j^{(2)}, j^{(3)} \}]$ as the nominal probability that the response is due to a solitary object of one of the types contained in the catalogue. When such identification procedure is performed on $n_{\mathrm{cand}}$ prospective object responses that correspond to classes in the catalog, and catalogue classes are distinct enough that the response of any object from any class has $\mathrm{P}(x \geq \tilde{u}_j)$ negligible for $j$ corresponding to any incorrect identification, then the average value of $\max(\mathrm{P}(x \geq \tilde{u}_j))$ should be $0.5 \pm (12 n_{\mathrm{cand}})^{-1/2}$, and the $n_{\mathrm{cand}}$ ordered values of $\max(\mathrm{P}(x \geq \tilde{u}_j))$ should plot approximately as an straight line from $1/(n_{\mathrm{cand}}+1)$ to $n_{\mathrm{cand}}/(n_{\mathrm{cand}}+1)$.

For the class identifications made for the responses of the catalog objects, omitting each object's own response when finding the closest other responses, and nominal probabilities are assigned to the three classes with the closest member. A better performance of nominal identification probability (Eq. A.19) than $u_{ij}$ in identifying the catalog objects is not surprising for several reasons – (1) for the correct class, the omitted response was used in forming $\mathbf{cov}(\beta_{(\mathrm{clj})})$ and $\overline{|\, s^{(k)}_{(\mathrm{clj})}(t)\,|}$, that are used to reciprocally weight the relative offsets $\beta_j$ and residuals $r^{(k)}_j(t)$, and (2) it has much more weight in these quantities than in $\mathbf{cov}(\beta_{(\mathrm{cat})})$ and $\overline{|\, s^{(k)}_{(\mathrm{cat})}(t)\,|}$.

### A.6 Maximum Likelihood Gamma Distribution Parameter Estimates

For a set of $n$ independent identically distributed variables $x_i$ distributed as $\Gamma(x,\alpha,\lambda)$ the maximum likelihood estimate of distribution parameters $\alpha$ and $\lambda$ satisfies

$$\sum_i \log(x_i)/n = \log(\sum_i x_i/n) - \log(\alpha) + d\log(\Gamma(\alpha))/d\alpha, \tag{A.20}$$

$$\lambda \sum_i x_i = n\alpha, \tag{A.21}$$

where $\log(\Gamma(\alpha))$ is the logarithm of the standard gamma function, $d\log(\Gamma(\alpha))/d\alpha$ is the derivative of that, obtained by straightforward differentiation of the numerical formula used for evaluating $\log(\Gamma(\alpha))$, [e.g., Press, *et al.*, 1986, p. 157], and the summations are over $i = 1,n$. Equation A.20 is easily solved for $\alpha$ iteratively, using Newton's method,

$$\alpha^{(\text{new})} = \alpha^{(\text{old})} + \frac{\sum_i \log(x_i)/n - \log(\sum_i x_i/n) + \log(\alpha^{(\text{old})}) - d\log(\Gamma(\alpha))/d\alpha\big|_{\alpha=\alpha^{(\text{old})}}}{d^2\log(\Gamma(\alpha))/dx^2 - 1/\alpha^{(\text{old})}}, \tag{A.22}$$

provided $\alpha$ stays positive [and using $\alpha^{(\text{new})} = \alpha^{(old)}/2$ instead, on any iteration where Eq. A.22 gives $\alpha^{(\text{new})} \le 0$ ]. The resultant $\alpha$ is used in Eq. A.21 for $\lambda$. A very good starting value for $\alpha$ in Newton's method Eq. A.22 is the method of moments estimate $\alpha^{(\text{mm})}$ given by

$$\overline{x} = \sum_i x_i/n, \tag{A.23}$$

$$\lambda^{(\text{mm})} = \frac{\overline{x}}{(\sum_i x_i^2/n) - \overline{x}^2}, \tag{A.24}$$

$$\alpha^{(\text{mm})} = \overline{x}\lambda^{(\text{mm})}. \tag{A.25}$$

# APPENDIX B

## UXO DISCRIMINATION USING TRAINING DATA

Training data consisted of a set of principal polarizability responses at 34 logarithmically spaced times centered from 143 μs to 1300 μs after transmitter shut-off. This data set consisted of 104 targets from the Calibration Grid and the test pit at YPG, and 103 scrap metals from Camp Sibert. Discrimination was made for UXO vs. scrap responses.

The data time interval was sub-divided logarithmically into a number $n_{div}$ of sub-intervals (e.g., 6). The product of each principal polarizability with its sample time was averaged over each of these intervals. Since there are three principal polarizabilities, this results in $n_{feat} = 3n_{div}$ reduced data, hence forth called 'features'. Additional feature used in the analysis was a median $\log_e$(magnitude) (in $m^3$) which increased the total number of features $n_{feat}$ to $3n_{div}$ +1. The number of sub-divisions $n_{div}$ was chosen using cross validation. In cross validation, an analysis method is applied to most of a training data set and the results are used to predict something about the remaining (excluded) training data. This is done many times, excluding a different set of training data each time, and a choice made, e.g., the value of $n_{div}$, based on what gives the best predictions averaged over many times.

In our application, two thirds of the training data were randomly selected for direct use in training, and one third was reserved for later calibration and is termed 'reserved data'. Based on the selected 2/3 of the training data, the probability that an observation is due to scrap is

estimated from a ratio of empirical probability density estimates for feature values. Empirical probability distributions are probability distribution estimates made based on observed data. Empirical probability distributions will be constructed below.

Within the selected 2/3 of the training data ('non-reserved' data), additional responses were randomly selected for exclusion in cross validation, and are termed 'excluded data'. In this work, a constant number of UXO training data, and a constant number of scrap training data were excluded at a time, in roughly equal proportions. The number of excluded data was chosen so that one response was withheld at a time from the smaller of the sets of non-reserved UXO and scrap training data. In cross validation one UXO and one scrap were withheld from the training responses at a time. This was cycled through 103 choices of excluded responses excluding each scrap and each UXO responses once.

We estimate empirical probability densities separately from UXO and scrap classes. In constructing an empirical probability distribution for either UXO or scrap responses, it is desirable to smear probability associated with any particular data point into a region centered around it, as it is extremely unlikely that another data point will have a value somewhere in the neighborhood. To get an idea of how much to smear out the probability associated with each data point in forming an empirical probability distribution, a trimmed cross power matrix is constructed for variation of data vectors about their median values. To do this, within training data for a class, values of each feature are sorted, the median and median absolute deviation (MAD) from the median are noted. In finding these medians and MADs, responses reserved for calibration and responses excluded for cross-validation are omitted. The values for each feature

are then shifted by subtracting its median value. As the scale of different features may vary from feature to feature, before forming the trimmed cross power matrix, the shifted feature values for each feature are normalized by dividing their MAD resulting in shifted normalized feature vectors, $\mathbf{v}_i^{(UXO)}$ for UXO responses, and $\mathbf{v}_i^{(scrap)}$ for scrap responses. Trimmed cross power matrices $\mathbf{C}^{(class)}$ are computed from these, with superscript $^{(class)}$ meaning either $^{(uxo)}$ or $^{(scrap)}$. To compute the trimmed cross power matrix for a class, values of $|\mathbf{v}_i^{(scrap)}|$ are computed for the class's training data and sorted to find median($|\mathbf{v}_i^{(scrap)}|$), omitting reserved and excluded data. Then the class trimmed cross power matrices are computed as

$$C^{(class)} = \frac{1}{\tilde{n}^{(class)}}\left[\sum_{i \text{ in class}, \left|v_i^{(class)}\right| \le \text{median}} v_i^{(class)} (v_i^{(class)})^t + \sum_{i \text{ in class}, \left|v_i^{(class)}\right| > \text{median}} \text{median}^2 \frac{v_i^{(class)} (v_i^{(class)})^t}{\left|v_i^{(class)}\right|^2}\right] \qquad (B.1)$$

where $\tilde{n}^{(class)} \equiv n^{(class)} - n^{(class)}_{rsrv} - n^{(class)}_{with}$, and $n^{(class)}_{rsrv}$, is the number of (class) responses reserved for subsequent calibration, and $n^{(class)}_{with}$ is the number of (class) responses excluded as a part of cross validation. The sums are over all non-excluded non-reserved class responses, t denotes transpose, and median means median($|\mathbf{v}_i^{(scrap)}|$). In the second sum, the contribution of large magnitude feature vectors are downweighted. Feature vector $\mathbf{v}_i^{(class)}$ probability density function is estimated empirically as proportional to

$$f^{(class)}(v_j^{(class)}) = K \sum_{i \text{ in class}} \frac{1}{\left[1 + (v_j - v_i)^t (C^{(class)})^{-1} (v_j - v_i)(\tilde{n}^{(class)})^{-1/2n_{feat}}\right]^{(3+n_{feat})/2}} \qquad (B.2)$$

with

$$1/K = (\tilde{n}^{(class)})^{(1+n_{feat})/n_{feat}} (\det(C^{(class)}))^{1/2} \qquad (B.3)$$

where superscript $^{(class)}$ has been omitted from $\mathbf{v}_i^{(class)}$ and $\mathbf{v}_j^{(class)}$ in the denominator, and reserved and excluded $\mathbf{v}_i^{(class)}$ terms omitted from the sum. Quantity in Eq. B.2 will be referred to as a density, although strictly speaking a density is normalized to have unit integral, and quantity in Eq. B.2 has not been normalized. Eq. B.2 is a generalization of a Cauchy distribution, with the outer exponent being the smallest half integer value yielding a finite variance.

In cross validation, densities (Eq. B.2) are computed for UXO and scrap classes from non-excluded responses, and feature vectors $\mathbf{v}_j^{(uxo)}$ and $\mathbf{v}_j^{(scrap)}$ are computed for excluded training responses not reserved for calibration, where for the j'th response, the two differ in component offsets and normalizations. The first is used in estimating the response's likelihood as a UXO response, and the second in estimating its likelihood as a scrap response. For a given response, assuming that the proportionality constant is the same for both UXO and scrap estimated densities, the probability that the response is due to a scrap would be

$$\frac{f^{(scrap)}(v_j^{(scrap)})}{f^{(uxo)}v_j^{(uxo)} + f^{(scrap)}(v_j^{(scrap)})} \tag{B.4}$$

as the common proportionality factor cancels in their ratio. The probability that is due to UXO, would be one less this number. Allowing for a ratio of proportionality constants to be $\alpha^2$, the densities are then $\alpha f^{(uxo)}$ $(\mathbf{v}_j^{(uxo)})$ and $f^{(scrap)}$ $(\mathbf{v}_j^{(scrap)})/\alpha$ (within a common scale factor), and the probability that the response is due to scrap is

$$p^{(scrap)}(v_j^{(scrap)}) = \frac{f^{(scrap)}(v_j^{(scrap)})}{\alpha^2 f^{(uxo)}(v_j^{(uxo)}) + f^{(scrap)}(v_j^{(scrap)})} \tag{B.5}$$

and the UXO probability its compliment (1 - scrap). The probability in Eq. B.5 depends only on $\alpha^2$, $f^{(uxo)}v_j^{(uxo)}$, and $f^{(scrap)}v_j^{(scrap)}$. The latter two are computed and saved for each excluded training datum, and proportionality constant $\alpha^2$ chosen subsequently.

In short, after computing $f^{(scrap)}$ ($\mathbf{v}_j^{(scrap)}$) and $f^{(uxo)}$ ($\mathbf{v}_j^{(uxo)}$) for the set of excluded responses not reserved for calibration, the set of excluded responses is changed, trimmed feature covariance matrices recomputed, and densities computed for the set of new unreserved excluded responses. Again, $n^{(scrap)}_{with}$ is the number of scrap training data withheld as a part of cross validation in each cycle, $n^{(uxo)}_{with}$ is the similar number of UXO training data withheld in each cycle. Letting $n_{cycl}$ be the number of cycles of excluding some training data, $n_{cycl}$ x $n^{(scrap)}_{with}$ unreserved scrap training responses, and $n_{cycl}$ x $n^{(uxo)}_{with}$ unreserved UXO training responses are cycled through the excluded set. For a given value of $\alpha^2$, the scrap probabilities associated with these values are summed as

$$\left\langle \tilde{n}^{(scrap)} \right\rangle = \sum_{\text{j exluded not reserved}} p^{(scrap)}(v_j^{(scrap)}) \tag{B.6}$$

Since the number of scrap responses that have been thus excluded is known to be $n_{cycl}$ x $n^{(scrap)}_{with}$, parameter $\alpha^2$ is adjusted, so that

$$<\tilde{n}^{(scrap)}> = n_{cycl} \text{ x } n^{(scrap)}_{with} \tag{B.7}$$

Eq. B.6 is monotonic in $\alpha^2$, so solution is unique. Newton's method started from $\alpha^2 = 1$, keeping $\alpha^2$ from decreasing to less than 0.1 of its previous value on any iteration, works very well. Since $p^{(scrap)} = 1 - p^{(uxo)}$, the criterion for setting $\alpha^2$ also sets the sum of $p^{(uxo)}$ ($\mathbf{v}_j^{(uxo)}$) to the number of UXO responses cycled through the excluded training data set $n_{cycl}$ x $n^{(uxo)}_{with}$.

For a prospective number of sub-intervals $n_{div}$, cross power matrices $\mathbf{C}^{(class)}$ are 3 $n_{div}$+1 x 3 $n_{div}$+1 square matrices requiring at least 3 $n_{div}$+1 vector outer products to be summed (in Eq. B.1) to avoid singularity. This limits the prospective numbers of time interval sub divisions to

$$n_{div} \leq \min(\tilde{n}^{(scrap)}, \tilde{n}^{(uxo)})/3 \tag{B.8}$$

but sub-divisions near the limiting value are expected to give poor results due to variance in the cross power matrix estimates.

In general UXO identifications are made by choosing a threshold value $p_o^{(uxo)}$ above which responses are considered to be due to UXO. To obtain as few missed identifications as possible for a given level of $p_o^{(uxo)}$, it is desirable to have as few true UXO responses with $p^{(uxo)}$ below this level as possible, that is, as many with $p^{(scrap)} = 1 - p^{(uxo)}$ below $p_o^{(scrap)} = 1 - p_o^{(uxo)}$ as possible. To select a number of interval sub-divisions that will work well with a variety of threshold values, we choose $n_{div}$ minimizing the sum

$$\left\langle \tilde{n}^{(miss)} \right\rangle = \sum_{j\,uxo,\,\text{not reserved}} p^{(scrap)}(\mathbf{v}_j^{(scrap)}) \tag{B.9}$$

If some UXO response looks totally like a scrap response then would contribute 1 to $\langle\tilde{n}^{(miss)}\rangle$ in summation in Eq. B.9; if it looks nothing like scrap responses it would contribute 0 to $\langle\tilde{n}^{(miss)}\rangle$. So, quantity $\langle\tilde{n}^{(miss)}\rangle$ is a measure of how much the UXO training data look like scrap responses under the classifier (choice of $n_{div}$) being considered. For each value of $n_{div}$ tried, $\langle\tilde{n}^{(miss)}\rangle$ is computed using values $p^{(scrap)}$ ($\mathbf{v}_j^{(scrap)}$ which are computed using cross validation.

Recapping, 1/3 of the training data is reserved for later use; the remaining UXO and scrap data are randomly ordered within each of these classes. A sequence of candidate $n_{div}$ values are cycled through as an outer loop. Sets of excluded UXO and scrap training data are chosen

starting with the first on their randomly ordered lists. Trimmed feature covariance matrices are computed excluding these and the reserved data. Quantities $f^{(scrap)}$ ($\mathbf{v}_j^{(scrap)}$) and $f^{(uxo)}$ ($\mathbf{v}_j^{(uxo)}$) are computed for the excluded data. The sets of excluded responses are changed (moving down the random ordered lists), trimmed feature covariance matrices recomputed, and densities computed for the new set of unreserved excluded responses, based on the non-excluded unreserved responses. After cycling essentially all of the non-reserved training data through the excluded sets, $\alpha^2$ is chosen (for the current $n_{div}$) using Newton's method to enforce criterion in Eq. B.7. That is, so that the sum of scrap probabilities over responses that have been, in turn, excluded from the covariance matrix sums (Eq. B.1) and the empirical density sum (Eq. B.2), is equal to the number of scrap responses among these. Then, with this value of $\alpha^2$, the sum of estimated scrap probabilities over the UXO responses that have been in turn excluded, is computed (Eq. B.9). This whole sequence is repeated for each candidate value of $n_{div}$, and $n_{div}$ giving the lowest value of Eq. B.9 is selected.

Once $n_{div}$ has been selected, covariance matrices $C^{(uxo)}$ and $C^{(scrap)}$ are recomputed using all non-reserved training data to compute feature medians and MADs for UXO and for scrap responses, and in forming the covariance matrices themselves. Similarly, all non-reserved training data are then used in reforming empirical distributions for scrap and UXO classes analogously to Eqs. B.2 and B.3 but summed over all the non-reserved responses, omitting any self-response terms (i = j), with the numbers of non-reserved UXO and scrap responses $\tilde{n}^{(uxo)}$ and $\tilde{n}^{(scrap)}$, replacing $\tilde{n}^{(class)}$ appropriately. Then all data, reserved and non-reserved, is used in computing an estimated number of scrap responses $<n^{(scrap)}>$ analogously to Eq. B.6, and $\alpha^2$ reselected, so that the resulting $<n^{(scrap)}>$ is equal to the total number of scrap responses, to calibrate the resulting

empirical distributions and probabilities. In this step, the inclusion of non-reserved data (which entered into the covariance matrices) in the probability sums used in the final calibration, may bias the resulting probabilities somewhat, but is thought to be more than compensated for in reduced variance in the final value of $\alpha^2$ obtained. The inclusion of the 1/3 of reserved data, that was omitted in estimation of the feature covariance matrices, in the probability sum $<n^{(scrap)}>$ used in the final calibration, lessens the effect of any such bias.

The resulting covariance estimates, empirical probability distributions for $v^{scrap}$ and $v^{uxo}$ and proportionality constant $\alpha^2$ are then used to evaluate the probability that a response is due to scrap through Eq. B.5 evaluated using the response's feature vector, shifted and normalized as a prospective scrap response $v^{scrap}$ and as a prospective UXO response $v^{uxo}$.

# APPENDIX C

YPG Open Field Area UXO identifications.

**Columns:**

**1** Rank (small number when not UXO, high number for UXO)
**2** Easting (m)
**3** Northing (m)
**4** Probability that a metallic object is present
**5** Probability that the object is a single UXO
**6** Depth (m)
**7** Azimuth (degrees, relative to North)
**8** Dip angle (degrees, relative to horizontal)
**9** Classification: O = UXO, C/O = clutter or clutter and UXO
**10** Identification: name of most likely type of UXO – first match
**11** Identification: name of most likely type of UXO – second match
**12** Identification: name of most likely type of UXO – third match
**13** LBL file name

| Rank | Easting (m) | Northing (m) | Pd (Obj) | Pd (UXO) | Depth (m) | Azim. | Dip | Class. | FirstID | SecondID | ThirdID | LBL_file |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 757400.217 | 3638386.274 | 0.9925 | 0 | 0.17 | -22.7 | -72.2 | C/O | 60mm_M49A3_F10 | 57mm_M86_pit | 37mm_K09 | ln216bgW1 |
| 2 | 757412.377 | 3638505.261 | 1 | 0 | 2.28 | -16.1 | -43.8 | C/O | 155mm_M483A1_D04 | 105mm_M60_F05 | 2.75in_M230_J10 | ln346_0021 |
| 3 | 757414.731 | 3638500.771 | 1 | 0 | 0.33 | -20.3 | -73.1 | C/O | 105mm_M60_L05 | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | ln345invcont4 |
| 4 | 757419.606 | 3638386.843 | 1 | 0 | 0.09 | -162.4 | 8.7 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 60mm_M49A3_J11 | ln230inv34 |
| 5 | 757422.361 | 3638296.534 | 1 | 0 | 0.09 | -60 | 9.4 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_B05 | ln139inv2 |
| 6 | 757422.54 | 3638395.747 | 0.99999 | 0 | 0 | -78.3 | 6.8 | C/O | M42_J03 | M75_E01 | 20mm_M55_L15 | ln239inv6 |
| 7 | 757423.338 | 3638379.765 | 1 | 0 | 0.12 | 22.1 | -4.6 | C/O | 60mm_M49A3_F10 | 57mm_M86_pit | 81mm_M374_E02 | ln223inv3 |
| 8 | 757423.548 | 3638367.929 | 1 | 0 | 0.51 | -136.9 | -74 | C/O | 81mm_M374_F02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln211inv6 |
| 9 | 757423.711 | 3638392 | 1 | 0 | 0.09 | -69.7 | -64.2 | C/O | 105mm_M456_Heat_pit | 2.75in_M230_H10 | 81mm_M374_A02 | ln235inv4 |
| 10 | 757424.51 | 3638278.077 | 1 | 0 | 0.58 | -167.9 | -13.5 | C/O | 105mm_M60_L05 | 155mm_M483A1_L04 | 105mm_M456_Heat_pit | ln120_0928 |
| 11 | 757424.81 | 3638333.403 | 1 | 0 | 0.13 | 155.1 | -87.1 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln175inv7 |
| 12 | 757424.833 | 3638467.767 | 1 | 0 | 0.16 | 176 | -3.9 | C/O | 40mm_MKII_A03 | BDU-28_pit | M75_A01 | ln312inv22 |
| 13 | 757425.205 | 3638284.665 | 1 | 0 | 0.5 | -160.4 | -85 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln126inv23 |
| 14 | 757425.484 | 3638320.122 | 1 | 0 | 0.16 | 6.9 | -82.7 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_K11 | ln162inv22 |
| 15 | 757426.124 | 3638397.752 | 1 | 0 | 0.26 | -103.6 | 3.6 | C/O | 81mm_M374_E02 | 2.75in_M230_M10 | 57mm_M86_J12 | ln241inv9 |
| 16 | 757427.975 | 3638460.688 | 1 | 0 | 0.24 | -107.6 | 0.2 | C/O | 2.75in_M230_H10 | 81mm_M374_A02 | 105mm_M60_H05 | ln305inv7 |
| 17 | 757429.209 | 3638400.863 | 1 | 0 | 0.04 | 155 | 4.9 | C/O | BLU-26_J13 | 60mm_M49A3_pit | M42_M03 | ln244inv4 |
| 18 | 757429.937 | 3638403.046 | 1 | 0 | 0.02 | 140.2 | -3.6 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln246inv22 |
| 19 | 757431.459 | 3638296.137 | 1 | 0 | 0.13 | 151.5 | -13.9 | C/O | BLU-26_J13 | 105mm_M456_Heat_pit | 2.75in_M230_pit | ln135inv13 |
| 20 | 757431.71 | 3638459.284 | 1 | 0 | 0.07 | 47.4 | -82 | C/O | 2.75in_M230_H10 | 105mm_M60_B05 | 81mm_M374_D02 | ln303inv6 |
| 21 | 757433.535 | 3638244.109 | 1 | 0 | 0.22 | -172 | 7.7 | C/O | 105mm_M60_B05 | 81mm_M374_A02 | 2.75in_M230_H10 | ln98inv18 |
| 22 | 757434.383 | 3638357.6 | 0.99999 | 0 | 0.13 | -105.5 | 32.6 | C/O | M42_J03 | 40mm_MKII_B03 | M75_C01 | ln199inv11 |
| 23 | 757434.803 | 3638297.688 | 1 | 0 | 0.38 | -52.4 | -28.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln139inv5 |
| 24 | 757434.962 | 3638442.481 | 1 | 0 | 0 | -10.3 | 38.5 | C/O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln285_0180 |
| 25 | 757435.243 | 3638283.802 | 1 | 0 | 0.11 | -41.6 | -6.2 | C/O | 81mm_M374_F02 | 2.75in_M230_K10 | 105mm_M60_L05 | ln125inv6 |
| 26 | 757436.552 | 3638328.912 | 1 | 0 | 0.34 | 130.6 | 22.3 | C/O | 2.75in_M230_H10 | 81mm_M374_pit | 105mm_M60_B05 | ln170inv46 |
| 27 | 757437.209 | 3638363.295 | 1 | 0 | 0.08 | 5.3 | 7 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 60mm_M49A3_pit | ln205inv6 |
| 28 | 757437.314 | 3638241.789 | 1 | 0 | 0.43 | -149.1 | -4.9 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln96inv29 |
| 29 | 757437.436 | 3638180.799 | 1 | 0 | 0.07 | -88 | -83.6 | C/O | 2.75in_M230_pit | BLU-26_pit | 105mm_M60_H05 | ln34inv7 |
| 30 | 757437.667 | 3638496.903 | 1 | 0 | 0.14 | 47.3 | 4.5 | C/O | 105mm_M60_L05 | 155mm_M483A1_L04 | 81mm_M374_A02 | ln340inv14 |
| 31 | 757437.721 | 3638292.126 | 1 | 0 | 0.41 | -68.1 | -0.4 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln133inv5 |
| 32 | 757437.935 | 3638442.88 | 1 | 0 | 0.18 | -45.2 | -74.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln286inv30 |
| 33 | 757439.353 | 3638246.231 | 1 | 0 | 0.14 | -82 | -78.4 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_L04 | ln100inv10 |
| 34 | 757439.855 | 3638396.911 | 1 | 0 | 0.01 | -30.5 | 12.2 | C/O | M75_A01 | M42_J03 | BLU-26_M13 | ln239inv9 |
| 35 | 757440.115 | 3638429.299 | 1 | 0 | 0 | 90.5 | -2.8 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln272inv13 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | 757440.844 | 3638156.057 | 1 | 0 | 0.2 | -53.2 | -85.7 | C/O | BDU-28_M02 | 40mm_MKII_pit | 37mm_H09 | ln9_0299 |
| 37 | 757440.929 | 3638270.368 | 1 | 0 | 0.57 | -123.1 | 14.1 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln111_0090 |
| 38 | 757441.341 | 3638183.637 | 1 | 0 | 0.43 | 9.2 | -32.9 | C/O | 2.75in_M230_pit | BLU-26_pit | 57mm_M86_K12 | ln37inv8 |
| 39 | 757441.539 | 3638389.469 | 1 | 0 | 0.35 | 122.6 | 3.4 | C/O | 105mm_M60_L05 | 155mm_M483A1_L04 | 105mm_M456_Heat_pit | ln232inv33 |
| 40 | 757442.08 | 3638270.501 | 0.99511 | 0 | 0.42 | 58.3 | -16.4 | C/O | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | 105mm_M60_H05 | ln110_0698 |
| 41 | 757442.108 | 3638293.948 | 1 | 0 | 0.02 | -80.6 | -6.1 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln135inv5 |
| 42 | 757442.805 | 3638386.024 | 1 | 0 | 0.11 | 83.4 | 10 | C/O | BLU-26_I13 | M75_F01 | 57mm_M86_pit | ln228inv4 |
| 43 | 757443.194 | 3638352.426 | 1 | 0 | 0.08 | 125.1 | 20.5 | C/O | BLU-26_J13 | 60mm_M49A3_pit | 2.75in_M230_pit | ln194inv10 |
| 44 | 757443.295 | 3638375.504 | 1 | 0 | 0.27 | 89 | -4.8 | C/O | 2.75in_M230_M10 | 60mm_M49A3_K11 | 81mm_M374_E02 | ln218inv17 |
| 45 | 757443.35 | 3638342.161 | 1 | 0 | 0.22 | 40.9 | -10.8 | C/O | M75_A01 | BLU-26_K13 | 57mm_M86_L12 | ln183inv10 |
| 46 | 757443.967 | 3638259.788 | 1 | 0 | 0.52 | -128.2 | -16.6 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_L04 | 105mm_M60_J05 | ln114inv7 |
| 47 | 757444.084 | 3638472.878 | 1 | 0 | 0.08 | 165 | -9.4 | C/O | 37mm_M09 | M42_J03 | 40mm_MKII_E03 | ln316_1309 |
| 48 | 757444.416 | 3638260.313 | 1 | 0 | 0.47 | -123.9 | -15.4 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_L04 | 105mm_M60_H05 | ln103inv10 |
| 49 | 757444.732 | 3638472.894 | 0.99947 | 0 | 0 | 144.7 | 12.4 | C/O | M42_K03 | 40mm_MKII_E03 | MK118_Rockeye_J01 | ln316inv12 |
| 50 | 757444.918 | 3638479.403 | 1 | 0 | 0.04 | 134.1 | 3.4 | C/O | 60mm_M49A3_F10 | 57mm_M86_pit | M75_F01 | ln322inv38 |
| 51 | 757445.19 | 3638327.747 | 1 | 0 | 0.3 | -2.9 | -16.3 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_J11 | ln169inv9 |
| 52 | 757445.42 | 3638464.62 | 0.9998 | 0 | 0.13 | -170.8 | -5.3 | C/O | M42_J03 | M75_C01 | 40mm_MKII_B03 | ln308inv4 |
| 53 | 757445.63 | 3638330.317 | 1 | 0 | 0.08 | -168.8 | -71.2 | C/O | M75_B01 | M42_K03 | 57mm_M86_L12 | ln171inv11 |
| 54 | 757445.93 | 3638291.86 | 1 | 0 | 0.39 | 25.3 | -76.4 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_B06 | ln132inv17 |
| 55 | 757446.323 | 3638387.421 | 1 | 0 | 0.09 | 56.3 | -0.2 | C/O | 60mm_M49A3_F10 | M75_E01 | 37mm_K09 | ln230inv28 |
| 56 | 757447.397 | 3638327.035 | 1 | 0 | 0.02 | -144.6 | 2.3 | C/O | 57mm_M86_L12 | M75_C01 | 60mm_M49A3_K11 | ln168inv28 |
| 57 | 757448.11 | 3638486.577 | 1 | 0 | 0.1 | -6.9 | 9.5 | C/O | M75_C01 | BLU-26_M13 | 60mm_M49A3_F10 | line329inv19 |
| 58 | 757448.933 | 3638323.325 | 1 | 0 | 0.21 | 83.9 | 2.5 | C/O | 2.75in_M230_pit | 105mm_M456_Heat_B06 | 81mm_M374_A02 | ln164inv25 |
| 59 | 757449.028 | 3638311.833 | 1 | 0 | 0.09 | 99.6 | 20.4 | C/O | 60mm_M49A3_pit | BLU-26_L13 | M42_M03 | ln152inv45 |
| 60 | 757449.219 | 3638309.615 | 1 | 0 | 0.19 | 97 | -79.7 | C/O | M75_B01 | 57mm_M86_L12 | M42_K03 | ln1501inv53 |
| 61 | 757449.355 | 3638221.24 | 1 | 0 | 0.52 | 48.5 | -40 | C/O | 105mm_M456_Heat_pit | BLU-26_J13 | 81mm_M374_A02 | ln75inv2 |
| 62 | 757449.394 | 3638451.287 | 1 | 0 | 0.73 | 60.2 | 5.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln294invX12 |
| 63 | 757449.501 | 3638207.046 | 1 | 0 | 0.54 | 92 | -39.5 | C/O | 81mm_M374_F02 | 105mm_M60_L05 | 2.75in_M230_K10 | ln60inv20 |
| 64 | 757451.029 | 3638276.48 | 1 | 0 | 0.16 | -106.7 | 7.3 | C/O | 155mm_M483A1_J04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln117inv5 |
| 65 | 757451.65 | 3638231.828 | 1 | 0 | 0.22 | 149.2 | 17.6 | C/O | BLU-26_J13 | 2.75in_M230_pit | 57mm_M86_K12 | ln86inv56 |
| 66 | 757452.269 | 3638197.006 | 0.93788 | 0 | 0.02 | 96.7 | -4 | C/O | 40mm_M385_I14 | 20mm_M55_I15 | M75_A01 | ln50inv34 |
| 67 | 757453.636 | 3638354.607 | 1 | 0 | 0.41 | 70.9 | 23.8 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln196inv23 |
| 68 | 757454.22 | 3638426.917 | 1 | 0 | 0 | -142.9 | -75.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | BLU-26_K13 | ln269inv11 |
| 69 | 757454.504 | 3638256.1 | 1 | 0 | 0.32 | -126 | 26.9 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln110inv2 |
| 70 | 757454.625 | 3638186.101 | 1 | 0 | 0.16 | -8 | -53.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln39inv18 |
| 71 | 757456.264 | 3638393.942 | 1 | 0 | 0.11 | -174.1 | -56.6 | C/O | 2.75in_M230_K10 | 57mm_M86_L12 | 60mm_M49A3_J11 | ln236inv17 |
| 72 | 757456.43 | 3638371.385 | 1 | 0 | 0.08 | -125.9 | 5.1 | C/O | BLU-26_I13 | M75_F01 | 2.75in_M230_K10 | ln213_0193 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 73 | 757456.82 | 3638367.117 | 1 | 0 | 0.13 | 132.1 | 5.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln208inv32 |
| 74 | 757457.258 | 3638211.42 | 1 | 0 | 0.2 | -51.1 | 2.2 | C/O | M75_C01 | BLU-26_M13 | 57mm_M86_L12 | ln65inv11 |
| 75 | 757458.015 | 3638342.369 | 1 | 0 | 0.1 | -97.7 | 2.9 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln183inv13 |
| 76 | 757458.05 | 3638307.225 | 1 | 0 | 0.1 | -24.3 | -1.4 | C/O | M75_B01 | 57mm_M86_L12 | M42_K03 | ln147inv10 |
| 77 | 757458.909 | 3638481.555 | 1 | 0 | 0 | 28.2 | -49.7 | C/O | M75_B01 | M42_K03 | 57mm_M86_L12 | ln324inv20 |
| 78 | 757459.78 | 3638395.983 | 1 | 0 | 0.18 | 154.1 | 6 | C/O | 81mm_M374_F02 | 2.75in_M230_M10 | 57mm_M86_J12 | ln238_1009 |
| 79 | 757460.083 | 3638274.666 | 1 | 0 | 0.16 | 41.2 | -11.7 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_L04 | 105mm_M60_J05 | ln115inv13 |
| 80 | 757461.362 | 3638359.9 | 1 | 0 | 0.08 | -65.5 | -88.9 | C/O | 2.75in_M230_M10 | 81mm_M374_F02 | 60mm_M49A3_pit | ln200inv8 |
| 81 | 757461.696 | 3638367.309 | 1 | 0 | 0.37 | -74.2 | -14.4 | C/O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 81mm_M374_D02 | ln209inv6 |
| 82 | 757461.821 | 3638412.837 | 1 | 0 | 0.05 | -35.2 | 3.9 | C/O | M75_B01 | 57mm_M86_L12 | M42_K03 | ln255inv8 |
| 83 | 757462.24 | 3638152.222 | 1 | 0 | 0 | 135.8 | -70.7 | C/O | M42_I03 | M75_B01 | MK118_Rockeye_J01 | ln5inv48 |
| 84 | 757462.278 | 3638295.279 | 1 | 0 | 0.05 | -55.2 | -16.6 | C/O | M75_A01 | 57mm_M86_L12 | BLU-26_J13 | ln135_0250 |
| 85 | 757463.387 | 3638369.615 | 1 | 0 | 0.16 | -22.3 | -18.3 | C/O | 2.75in_M230_K10 | 57mm_M86_L12 | 60mm_M49A3_pit | ln211inv15 |
| 86 | 757463.531 | 3638210.083 | 1 | 0 | 0.26 | 52.8 | -76 | C/O | M42_J03 | M75_C01 | MK118_Rockeye_pit | ln64inv1 |
| 87 | 757463.93 | 3638278.908 | 1 | 0 | 0.66 | 122 | -64.9 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln118_0691 |
| 88 | 757464.153 | 3638325.83 | 1 | 0 | 0.11 | -52.3 | 17.7 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_B06 | ln165inv18 |
| 89 | 757464.419 | 3638502.296 | 1 | 0 | 0.22 | -14.9 | -74.5 | C/O | 81mm_M374_F02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln345inv18 |
| 90 | 757464.578 | 3638297.586 | 1 | 0 | 0.09 | -9.1 | -1.8 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_A02 | ln135inv20 |
| 91 | 757466.062 | 3638394.749 | 1 | 0 | 0.22 | 74.6 | 37.4 | C/O | 81mm_M374_A02 | 105mm_M456_Heat_pit | 2.75in_M230_K10 | ln236inv9 |
| 92 | 757466.537 | 3638320.057 | 1 | 0 | 0.22 | -160.1 | 17.4 | C/O | BLU-26_J13 | 60mm_M49A3_pit | 2.75in_M230_pit | ln160_1103 |
| 93 | 757466.825 | 3638148.402 | 1 | 0 | 0 | -62.3 | -8.6 | C/O | M75_B01 | M42_K03 | 57mm_M86_L12 | ln1inv16 |
| 94 | 757471.244 | 3638420.151 | 1 | 0 | 0.42 | 151.4 | -58.4 | C/O | 81mm_M374_F02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln262inv19 |
| 95 | 757474.261 | 3638448.096 | 1 | 0 | 0.09 | 155.6 | -71.4 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 155mm_M483A1_L04 | ln290inv14 |
| 96 | 757475.787 | 3638498.575 | 0.94175 | 0 | 0 | 177.2 | -2.4 | C/O | 40mm_M385_J14 | 20mm_M55_I15 | 57mm_M86_L12 | ln340inv10 |
| 97 | 757476.695 | 3638408.801 | 1 | 0 | 0 | 134.8 | 1.4 | C/O | 40mm_MKII_E03 | M75_B01 | 57mm_M86_L12 | ln250_0844 |
| 98 | 757477.291 | 3638469.999 | 0.9897 | 0 | 0 | 110.9 | 0.2 | C/O | M42_I03 | 20mm_M55_J15 | 40mm_MKII_pit | ln312inv20 |
| 99 | 757479.245 | 3638169.263 | 0.97882 | 0 | 0.09 | 16.3 | 4.7 | C/O | M42_K03 | 57mm_M86_L12 | 20mm_M55_I15 | ln21inv35 |
| 100 | 757479.859 | 3638467.714 | 0.9566 | 0 | 0 | -142.1 | -2.6 | C/O | BDU-28_M02 | M42_K03 | MK118_Rockeye_M01 | ln310inv12 |
| 101 | 757482.716 | 3638162.236 | 1 | 0 | 0.05 | 82.7 | -73.6 | C/O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_A03 | ln14inv49 |
| 102 | 757483.107 | 3638468.648 | 0.99985 | 0 | 0.05 | 42.9 | 6.3 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln311inv12 |
| 103 | 757484.087 | 3638211.252 | 1 | 0 | 0.52 | -96.4 | -1.1 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln65inv12 |
| 104 | 757484.278 | 3638475.023 | 0.99492 | 0 | 0.06 | 40.3 | -6 | C/O | M42_K03 | 57mm_M86_L12 | 20mm_M55_L15 | ln317inv21 |
| 105 | 757484.883 | 3638168.75 | 1 | 0 | 0.66 | -140.5 | -0.2 | C/O | 105mm_M60_H05 | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | ln20inv10 |
| 106 | 757489.241 | 3638195.647 | 1 | 0 | 0.1 | -39.3 | -74.1 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_J06 | 155mm_M483A1_L04 | ln48inv11 |
| 107 | 757489.816 | 3638410.7 | 1 | 0 | 0.01 | -74.1 | -54.6 | C/O | M75_B01 | 40mm_MKII_A03 | M42_J03 | ln252inv18 |
| 108 | 757489.883 | 3638386.441 | 1 | 0 | 0 | -124.2 | -3.4 | C/O | 2.75in_M230_pit | 81mm_M374_pit | 105mm_M60_B05 | ln227in16 |
| 109 | 757490.746 | 3638374.824 | 1 | 0 | 0.12 | -116.5 | 28.3 | C/O | 81mm_M374_F02 | 57mm_M86_pit | 2.75in_M230_M10 | ln217inv18 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 757491.583 | 3638272.93 | 1 | 0 | 0 | 32.4 | 3.6 | C/O | BLU-26_J13 | 60mm_M49A3_F10 | M42_M03 | ln111_0260 |
| 111 | 757492.01 | 3638413.236 | 1 | 0 | 0 | 140.1 | -76.6 | C/O | BLU-26_J13 | 2.75in_M230_pit | 81mm_M374_pit | ln254inv24 |
| 112 | 757493.612 | 3638346.233 | 0.99149 | 0 | 0.01 | 137 | -41 | C/O | M42_K03 | 20mm_M55_I15 | MK118_Rockeye_M01 | ln185inv10 |
| 113 | 757494.292 | 3638331.157 | 1 | 0 | 0.1 | -152.9 | -10.3 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln170inv35 |
| 114 | 757494.678 | 3638336.652 | 1 | 0 | 0 | -150.4 | -1.4 | C/O | M42_K03 | MK118_Rockeye_J01 | 57mm_M86_L12 | ln176inv4 |
| 115 | 757497.609 | 3638416.012 | 1 | 0 | 0.01 | 26.8 | -0.1 | C/O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln257inv10 |
| 116 | 757497.699 | 3638497.12 | 1 | 0 | 0.1 | 135.2 | -12.5 | C/O | M42_M03 | BLU-26_J13 | 60mm_M49A3_F10 | ln338inv25 |
| 117 | 757500.056 | 3638172.093 | 0.74552 | 0 | 0.01 | -83.9 | -10.6 | C/O | 40mm_M385_pit | 20mm_M55_I15 | BDU-28_M02 | ln23inv5 |
| 118 | 757504.607 | 3638335.198 | 1 | 0 | 0.1 | -55.8 | 12.4 | C/O | M42_K03 | 40mm_MKII_E03 | MK118_Rockeye_J01 | ln173inv23 |
| 119 | 757504.979 | 3638446.603 | 1 | 0 | 0.06 | -125.7 | -82.6 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_L06 | 81mm_M374_A02 | ln287inv10 |
| 120 | 757505.897 | 3638392.971 | 1 | 0 | 0.19 | -68.6 | 13.7 | C/O | 105mm_M60_H05 | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | ln233inv21 |
| 121 | 757506.029 | 3638431.05 | 1 | 0 | 0.08 | -157 | 16.8 | C/O | 2.75in_M230_H10 | 81mm_M374_A02 | 105mm_M456_Heat_pit | ln272inv6 |
| 122 | 757507.432 | 3638310.409 | 0.99958 | 0 | 0.19 | 151.8 | -70.1 | C/O | BLU-26_L13 | M42_M03 | 37mm_K09 | ln148inv19 |
| 123 | 757508.012 | 3638188.957 | 1 | 0 | 0.16 | -61.4 | -6.7 | C/O | BDU-28_I02 | 57mm_M86_L12 | 40mm_MKII_E03 | ln41inv41 |
| 124 | 757509.498 | 3638275.036 | 0.87979 | 0 | 0 | -152.9 | -29.5 | C/O | M42_I03 | M75_B01 | 37mm_H09 | ln112_0416 |
| 125 | 757509.95 | 3638475.126 | 1 | 0 | 0.07 | 151.5 | -74.9 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln316inv8 |
| 126 | 757510.254 | 3638286.487 | 1 | 0 | 0.12 | -166.9 | -81 | C/O | 37mm_H09 | M75_A01 | M42_K03 | ln124inv8 |
| 127 | 757511.833 | 3638198.352 | 1 | 0 | 0.49 | -18.6 | 42.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln51inv44 |
| 128 | 757512.822 | 3638358.684 | 1 | 0 | 0.05 | -131.7 | -81.3 | C/O | 57mm_M86_pit | 60mm_M49A3_F10 | 2.75in_M230_M10 | ln197inv9 |
| 129 | 757513.99 | 3638369.773 | 1 | 0 | 0.06 | 3.4 | -1.5 | C/O | BLU-26_J13 | 60mm_M49A3_pit | M75_C01 | ln209inv12 |
| 130 | 757516.139 | 3638335.085 | 1 | 0 | 0.28 | -74.1 | -3.3 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln173inv30 |
| 131 | 757516.323 | 3638382.56 | 0.99996 | 0 | 0.04 | -136.5 | -1.1 | C/O | M42_K03 | 57mm_M86_L12 | 20mm_M55_M15 | ln222inv15 |
| 132 | 757517.439 | 3638402.55 | 1 | 0 | 0.06 | -103.8 | -7 | C/O | M42_J03 | 20mm_M55_L15 | BLU-26_M13 | ln243inv21 |
| 133 | 757517.876 | 3638482.08 | 1 | 0 | 0.16 | -35.6 | -80.6 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln323inv7 |
| 134 | 757519.024 | 3638359.476 | 1 | 0 | 0.06 | 65.3 | -4 | C/O | 81mm_M374_pit | 2.75in_M230_pit | 60mm_M49A3_pit | ln198inv10 |
| 135 | 757519.221 | 3638470.203 | 0.99999 | 0 | 0.05 | -21.1 | 13.4 | C/O | M42_K03 | 20mm_M55_I15 | M75_B01 | ln311inv16 |
| 136 | 757520.499 | 3638397.593 | 1 | 0 | 0.07 | -95.9 | -1.1 | C/O | 60mm_M49A3_pit | 2.75in_M230_pit | BLU-26_J13 | ln237inv15 |
| 137 | 757520.766 | 3638393.616 | 1 | 0 | 0.05 | -79.1 | 1.7 | C/O | BLU-26_J13 | M42_M03 | 60mm_M49A3_pit | ln233inv27 |
| 138 | 757521.344 | 3638302.671 | 1 | 0 | 0 | 167.1 | -1.3 | C/O | M42_K03 | M75_B01 | 37mm_H09 | ln140_0423 |
| 139 | 757522.817 | 3638385.285 | 1 | 0 | 0.24 | -8 | -4.9 | C/O | 57mm_M86_K12 | 2.75in_M230_H10 | 60mm_M49A3_pit | ln225inv26 |
| 140 | 757524.184 | 3638369.076 | 1 | 0 | 0.3 | 82.6 | -28.6 | C/O | 2.75in_M230_pit | 81mm_M374_A02 | 105mm_M456_Heat_pit | ln208inv17 |
| 141 | 757524.582 | 3638357.946 | 1 | 0 | 0.19 | 155.1 | -12 | C/O | 57mm_M86_pit | 60mm_M49A3_F10 | 2.75in_M230_M10 | ln196inv10 |
| 142 | 757525.096 | 3638458.066 | 1 | 0 | 0.36 | -107.4 | -2.3 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 60mm_M49A3_K11 | ln299inv7 |
| 143 | 757525.11 | 3638479.81 | 1 | 0 | 0.01 | 120.1 | -3.4 | C/O | M42_I03 | M75_B01 | MK118_Rockeye_J01 | ln320inv5 |
| 144 | 757526.043 | 3638181.428 | 1 | 0 | 0.12 | 137.6 | -6.1 | C/O | M75_A01 | M42_M03 | 57mm_M86_L12 | ln32inv21 |
| 145 | 757526.138 | 3638460.778 | 1 | 0 | 0.1 | 140.2 | -61.2 | C/O | BLU-26_J13 | 60mm_M49A3_F10 | M75_C01 | ln3027 |
| 146 | 757527.35 | 3638295.124 | 1 | 0 | 0.81 | 48.9 | 1.1 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_J05 | 155mm_M483A1_H04 | ln132inv4 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 147 | 757528.061 | 3638382.691 | 1 | 0 | 0.14 | 173.7 | 2 | C/O | 2.75in_M230_K10 | 60mm_M49A3_M11 | 81mm_M374_pit | ln222inv12 |
| 148 | 757530.126 | 3638466.324 | 1 | 0 | 0.09 | 28.1 | 7.1 | C/O | 81mm_M374_B02 | 105mm_M60_L05 | 2.75in_M230_K10 | ln307bgE5 |
| 149 | 757530.217 | 3638461.679 | 1 | 0 | 0.42 | -4.1 | -12.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln303inv13 |
| 150 | 757530.809 | 3638233.736 | 1 | 0 | 0.1 | -73.8 | -58 | C/O | MK118_Rockeye_pit | M75_C01 | M42_J03 | ln87inv9 |
| 151 | 757530.813 | 3638268.251 | 1 | 0 | 0.01 | -38.8 | 0.1 | C/O | M42_I03 | M75_B01 | 57mm_M86_L12 | ln105inv3 |
| 152 | 757531.214 | 3638486.877 | 1 | 0 | 0.39 | -79.9 | 9.1 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln327inv6 |
| 153 | 757531.583 | 3638421.52 | 1 | 0 | 0.2 | 18.5 | -5.1 | C/O | BLU-26_M13 | M75_A01 | M42_M03 | ln261_0632 |
| 154 | 757532.895 | 3638492.933 | 1 | 0 | 0.1 | -0.6 | -73 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_H10 | ln333inv8 |
| 155 | 757532.918 | 3638270.328 | 0.99839 | 0 | 0 | 160.3 | -62.5 | C/O | M42_K03 | 20mm_M55_I15 | 40mm_MKII_E03 | ln107_0569 |
| 156 | 757533.305 | 3638421.731 | 1 | 0 | 0.14 | 21.2 | -5.1 | C/O | M75_A01 | 57mm_M86_L12 | BLU-26_M13 | ln261inv13 |
| 157 | 757533.322 | 3638477.83 | 1 | 0 | 0 | 59.8 | -78.5 | C/O | 81mm_M374_E02 | 2.75in_M230_M10 | 57mm_M86_L12 | ln318inv12 |
| 158 | 757533.416 | 3638469.718 | 1 | 0 | 0.33 | -2.7 | -81.7 | C/O | 81mm_M374_A02 | 105mm_M456_Heat_F06 | 105mm_M60_L05 | ln311inv18 |
| 159 | 757533.626 | 3638457.79 | 1 | 0 | 0.32 | -23.7 | 15.2 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 57mm_M86_L12 | ln299inv10 |
| 160 | 757533.76 | 3638391.565 | 1 | 0 | 0.1 | -5 | -6.8 | C/O | 105mm_M60_D05 | 155mm_M483A1_J04 | 105mm_M456_Heat_pit | ln231inv19 |
| 161 | 757534.133 | 3638192.71 | 1 | 0 | 0.41 | 143.8 | -64.5 | C/O | BLU-26_H13 | M75_F01 | 57mm_M86_L12 | ln45inv34 |
| 162 | 757535.954 | 3638217.751 | 1 | 0 | 0.22 | -99.1 | -61.5 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_J06 | ln071inv72 |
| 163 | 757536.381 | 3638483.72 | 1 | 0 | 0.34 | 120.8 | -4.3 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln324inv10 |
| 164 | 757536.65 | 3638387.816 | 1 | 0 | 0.07 | -31.6 | 15.4 | C/O | 57mm_M86_L12 | 2.75in_M230_K10 | 60mm_M49A3_J11 | ln227_0985 |
| 165 | 757538.035 | 3638164.334 | 1 | 0 | 0.05 | -83.6 | 13.6 | C/O | BLU-26_K13 | 57mm_M86_L12 | M75_D01 | ln13inv44 |
| 166 | 757538.178 | 3638502.249 | 0.99997 | 0 | 0.11 | 88.4 | -0.1 | C/O | M42_K03 | 20mm_M55_L15 | 40mm_MKII_E03 | ln342inv23 |
| 167 | 757541.024 | 3638346.431 | 0.92942 | 0 | 0 | -157.5 | 6.6 | C/O | MK118_Rockeye_M01 | BDU-28_M02 | M42_K03 | ln184inv4 |
| 168 | 757541.087 | 3638490.418 | 1 | 0 | 0.38 | 44.8 | -40.4 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 57mm_M86_J12 | ln330inv9 |
| 169 | 757543.741 | 3638348.838 | 1 | 0 | 0 | 69.7 | -65.5 | C/O | M42_I03 | M75_B01 | 57mm_M86_L12 | ln186inv8 |
| 170 | 757544.638 | 3638460.059 | 1 | 0 | 0.26 | 117.8 | 0.3 | C/O | 81mm_M374_E02 | 2.75in_M230_K10 | 60mm_M49A3_pit | ln300inv7 |
| 171 | 757545.555 | 3638267.799 | 1 | 0 | 0.03 | 150 | -86.7 | C/O | M75_A01 | BLU-26_M13 | 57mm_M86_L12 | ln104data_inv1 |
| 172 | 757546.747 | 3638439.81 | 1 | 0 | 0.02 | 37.2 | -6.2 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln279inv15 |
| 173 | 757547.524 | 3638267.844 | 1 | 0 | 0.1 | -133.9 | -80.4 | C/O | M75_A01 | BLU-26_M13 | 57mm_M86_L12 | ln104_0172 |
| 174 | 757547.8 | 3638181.685 | 1 | 0 | 0 | -40 | 0.5 | C/O | 105mm_M60_B05 | 81mm_M374_D02 | 105mm_M456_Heat_B06 | ln34_0005 |
| 175 | 757547.859 | 3638451.747 | 1 | 0 | 0.09 | -106.9 | -84.7 | C/O | M42_J03 | BLU-26_M13 | M75_C01 | ln291bgE6 |
| 176 | 757548.147 | 3638358.633 | 1 | 0 | 0.12 | 1.1 | -50.2 | C/O | BLU-26_J13 | 2.75in_M230_pit | 57mm_M86_K12 | ln196inv6 |
| 177 | 757548.182 | 3638470.908 | 1 | 0 | 0.08 | -130.8 | 0.3 | C/O | 81mm_M374_F02 | 2.75in_M230_K10 | 105mm_M60_L05 | ln311inv25 |
| 178 | 757548.566 | 3638434.486 | 0.99907 | 0 | 0.17 | 104.3 | -1.7 | C/O | M42_I03 | M75_B01 | 57mm_M86_L12 | ln274inv13 |
| 179 | 757548.617 | 3638294.777 | 1 | 0 | 0.13 | 7.1 | 5.2 | C/O | 105mm_M60_L05 | 155mm_M483A1_L04 | 105mm_M456_Heat_pit | ln131inv13 |
| 180 | 757549.752 | 3638391.257 | 1 | 0 | 0.37 | -87.8 | -82.3 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln230inv18 |
| 181 | 757551.865 | 3638441.019 | 1 | 0 | 0 | 73.6 | 4.9 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln280inv18 |
| 182 | 757552.516 | 3638246.712 | 1 | 0 | 0.37 | -25.3 | -60.5 | C/O | 81mm_M374_B02 | 2.75in_M230_M10 | 105mm_M60_L05 | ln101inv17 |
| 183 | 757554.506 | 3638333.098 | 0.99992 | 0 | 0.13 | 58.1 | 7.4 | C/O | M75_A01 | M42_pit | 40mm_MKII_A03 | ln170inv24 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 184 | 757555.406 | 3638510.281 | 1 | 0 | 0.19 | -163.9 | -86.1 | C/O | M42_I03 | M75_B01 | 60mm_M49A3_F10 | ln350_0716 |
| 185 | 757555.703 | 3638203.227 | 0.47547 | 0 | 0 | 135.5 | 0.4 | B | 40mm_M385_J14 | 20mm_M55_I15 | BDU-28_I02 | ln56_0066 |
| 186 | 757555.708 | 3638242.475 | 1 | 0 | 0.11 | 161.6 | -24.4 | C/O | BLU-26_L13 | 60mm_M49A3_F10 | M42_M03 | ln96inv20 |
| 187 | 757556.154 | 3638226.381 | 1 | 0 | 0.6 | 37.1 | -68.3 | C/O | 81mm_M374_A02 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln80inv12 |
| 188 | 757557.938 | 3638398.822 | 1 | 0 | 0.03 | -133 | 31.5 | C/O | 2.75in_M230_M10 | 60mm_M49A3_K11 | 57mm_M86_L12 | ln237inv18 |
| 189 | 757559.253 | 3638478.685 | 1 | 0 | 0.12 | -99 | -65.7 | C/O | 2.75in_M230_M10 | 57mm_M86_L12 | 81mm_M374_C02 | ln318inv5 |
| 190 | 757560.127 | 3638202.47 | 1 | 0 | 0.04 | 83 | -83.6 | C/O | 57mm_M86_L12 | 37mm_H09 | 40mm_M385_pit | ln55inv16 |
| 191 | 757561.053 | 3638244.882 | 1 | 0 | 0.59 | -14.2 | -72.7 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln99bgEW17 |
| 192 | 757561.198 | 3638457.447 | 1 | 0 | 0.22 | -35.2 | -4.6 | C/O | 2.75in_M230_M10 | 60mm_M49A3_K11 | 57mm_M86_L12 | ln297inv18 |
| 193 | 757561.25 | 3638425.991 | 1 | 0 | 0.12 | 103.3 | -53.1 | C/O | M75_F01 | BLU-26_L13 | MK118_Rockeye_pit | ln264inv4 |
| 194 | 757562.883 | 3638274.89 | 1 | 0 | 0.01 | 111.5 | 1.1 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln110inv3 |
| 195 | 757563.729 | 3638321.055 | 1 | 0 | 0.26 | -77.3 | 13.1 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 57mm_M86_J12 | ln157inv10 |
| 196 | 757566.013 | 3638499.621 | 1 | 0 | 0.18 | -92.9 | -75.2 | C/O | 81mm_M374_C02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln339inv4 |
| 197 | 757566.156 | 3638402.914 | 1 | 0 | 0.1 | 43.8 | 9.2 | C/O | 105mm_M60_B05 | 81mm_M374_B02 | 2.75in_M230_K10 | ln241inv20 |
| 198 | 757567.344 | 3638391.584 | 1 | 0 | 0.06 | -54.2 | -84.2 | C/O | 60mm_M49A3_F10 | 2.75in_M230_K10 | M75_F01 | ln229inv20 |
| 199 | 757567.689 | 3638258.258 | 1 | 0 | 0.07 | -147.1 | 7.2 | C/O | M42_K03 | 57mm_M86_L12 | M75_B01 | ln113inv12 |
| 200 | 757569.854 | 3638398.811 | 1 | 0 | 0.28 | 1.2 | -80.9 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 2.75in_M230_K10 | ln236inv3 |
| 201 | 757569.927 | 3638361.335 | 1 | 0 | 0.12 | -155.2 | 17.2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_D01 | ln198inv2 |
| 202 | 757571.673 | 3638402.484 | 1 | 0 | 0.24 | -139.6 | -0.8 | C/O | 81mm_M374_B02 | 2.75in_M230_K10 | 105mm_M60_H05 | ln240inv7 |
| 203 | 757572.646 | 3638394.388 | 1 | 0 | 0.13 | 59.4 | 31.1 | C/O | 2.75in_M230_H10 | 81mm_M374_E02 | 60mm_M49A3_F10 | ln232inv16 |
| 204 | 757572.965 | 3638238.908 | 1 | 0 | 0.53 | -54 | 6.7 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln93inv12 |
| 205 | 757574.439 | 3638260.393 | 1 | 0 | 0.08 | 175.3 | -3.7 | C/O | M42_I03 | M75_A01 | 37mm_H09 | ln115inv1 |
| 206 | 757574.899 | 3638418.239 | 1 | 0 | 0.59 | -61.1 | -72.1 | C/O | 81mm_M374_A02 | 105mm_M60_B05 | 105mm_M456_Heat_B06 | ln256inv18 |
| 207 | 757575.316 | 3638391.272 | 1 | 0 | 0.17 | 24.8 | 3.6 | C/O | 81mm_M374_A02 | 105mm_M60_B05 | 105mm_M456_Heat_pit | ln229inv23 |
| 208 | 757575.587 | 3638424.945 | 1 | 0 | 0.09 | -177.9 | 22.5 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln262inv15 |
| 209 | 757576.541 | 3638271.167 | 1 | 0 | 0.06 | 116.2 | 3.8 | C/O | M42_K03 | BDU-28_I02 | 57mm_M86_L12 | ln106inv2 |
| 210 | 757577.733 | 3638410.102 | 1 | 0 | 0.17 | -141 | 0.5 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_K10 | ln248inv12 |
| 211 | 757578.022 | 3638415.077 | 1 | 0 | 0.16 | -166.5 | -81.1 | C/O | 2.75in_M230_H10 | 81mm_M374_A02 | 105mm_M456_Heat_pit | ln253inv9 |
| 212 | 757579.641 | 3638459.198 | 1 | 0 | 0.2 | -160.5 | 15 | C/O | BLU-26_J13 | 60mm_M49A3_pit | M42_M03 | ln2984 |
| 213 | 757580.01 | 3638284.859 | 1 | 0 | 0.08 | 59.9 | -8.9 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_J06 | 81mm_M374_A02 | ln120inv1 |
| 214 | 757580.77 | 3638393.876 | 1 | 0 | 0.01 | -33.9 | 12.8 | C/O | 105mm_M60_D05 | 155mm_M483A1_J04 | 105mm_M456_Heat_D06 | ln231inv22 |
| 215 | 757580.844 | 3638426.889 | 1 | 0 | 0.35 | -37.3 | -60.9 | C/O | 105mm_M60_D05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln265inv10 |
| 216 | 757582.037 | 3638389.449 | 1 | 0 | 0.22 | 161.5 | 8.1 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln226inv7 |
| 217 | 757584.172 | 3638397.086 | 1 | 0 | 0.2 | 115.9 | -83.2 | C/O | 81mm_M374_C02 | 2.75in_M230_K10 | 155mm_M483A1_L04 | ln234inv9 |
| 218 | 757586.043 | 3638476.816 | 1 | 0 | 0.5 | 51.6 | -53.1 | C/O | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | 105mm_M60_L05 | ln315_0836 |
| 219 | 757586.488 | 3638375.789 | 1 | 0 | 0.28 | -32.2 | 15 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln213inv18 |
| 220 | 757586.534 | 3638508.25 | 1 | 0 | 0.1 | -44.1 | -79 | C/O | 60mm_M49A3_F10 | 2.75in_M230_K10 | M75_F01 | ln347inv9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 221 | 757587.297 | 3638407.613 | 0.99892 | 0 | 0 | -148.3 | 2.7 | C/O | M42_K03 | 57mm_M86_L12 | M75_B01 | ln244inv1 |
| 222 | 757588.467 | 3638375.461 | 1 | 0 | 0.37 | 178.4 | -83.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln212inv8 |
| 223 | 757589.107 | 3638380.999 | 1 | 0 | 0.22 | 107.2 | -72.3 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 60mm_M49A3_M11 | ln218inv2 |
| 224 | 757589.239 | 3638400.815 | 1 | 0 | 0.34 | -136.2 | -28 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln238inv5 |
| 225 | 757590.512 | 3638422.025 | 1 | 0 | 0.44 | -171.9 | -71.9 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln259inv18 |
| 226 | 757592.558 | 3638488.727 | 1 | 0 | 0.21 | 2.5 | -5.4 | C/O | 81mm_M374_F02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln327inv14 |
| 227 | 757592.588 | 3638428.487 | 1 | 0 | 0.28 | 138.3 | -2.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln266inv5 |
| 228 | 757594.018 | 3638264.799 | 0.96296 | 0 | 0.18 | 11.2 | 3.1 | C/O | M42_I03 | 37mm_H09 | BDU-28_M02 | ln121_1377 |
| 229 | 757594.383 | 3638472.696 | 1 | 0 | 0.57 | 47.2 | -57.8 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln311inv27 |
| 230 | 757594.741 | 3638252.724 | 1 | 0 | 0.02 | 81.5 | -81.4 | C/O | BLU-26_J13 | M75_A01 | 57mm_M86_L12 | ln109_0006 |
| 231 | 757595.716 | 3638394.454 | 1 | 0 | 0.2 | 44.8 | -15.2 | C/O | 81mm_M374_A02 | 105mm_M60_B05 | 105mm_M456_Heat_D06 | ln231inv25 |
| 232 | 757599.165 | 3638464.505 | 1 | 0 | 0.29 | -19.7 | -60.3 | C/O | 105mm_M456_Heat_pit | 155mm_M483A1_L04 | 105mm_M60_J05 | ln303inv19 |
| 233 | 757602.508 | 3638464.936 | 0.99998 | 0 | 0.12 | 3.3 | 9.5 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln303inv22 |
| 234 | 757603.6 | 3638409.201 | 1 | 0 | 0.04 | -116.7 | -11.2 | C/O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln245inv19 |
| 235 | 757603.872 | 3638393.521 | 1 | 0 | 0.23 | 29.5 | -80.8 | C/O | 81mm_M374_F02 | 2.75in_M230_K10 | 105mm_M60_L05 | ln230inv2 |
| 236 | 757603.891 | 3638427.151 | 1 | 0 | 0.22 | -125.7 | -7.2 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 155mm_M483A1_L04 | ln263inv16 |
| 237 | 757604.067 | 3638317.34 | 1 | 0 | 0.01 | -4 | -67.1 | C/O | 155mm_M483A1_D04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln154inv7 |
| 238 | 757604.665 | 3638375.685 | 1 | 0 | 0.1 | 45.8 | 7.4 | C/O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_L04 | ln212inv6 |
| 239 | 757605.168 | 3638400.969 | 1 | 0 | 0.27 | -155.9 | -86.4 | C/O | 81mm_M374_E02 | BLU-26_J13 | M75_A01 | ln237inv21 |
| 240 | 757606.686 | 3638395.909 | 1 | 0 | 0 | -145.3 | -10.4 | C/O | 81mm_M374_pit | 57mm_M86_L12 | 2.75in_M230_K10 | ln232inv2 |
| 241 | 757607.417 | 3638411.247 | 1 | 0 | 0.2 | -44.4 | 0.8 | C/O | 81mm_M374_A02 | 105mm_M456_Heat_pit | 105mm_M60_B05 | ln247_1603 |
| 242 | 757607.822 | 3638500.089 | 1 | 0 | 0.21 | 43 | -11.7 | C/O | BLU-26_J13 | M42_H03 | 60mm_M49A3_F10 | ln339inv11 |
| 243 | 757607.929 | 3638446.152 | 1 | 0 | 0.68 | -109 | 18.1 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln283inv22 |
| 244 | 757609.429 | 3638470.909 | 1 | 0 | 0.16 | -30.1 | -5.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln309inv23 |
| 245 | 757609.905 | 3638474.828 | 1 | 0 | 0.1 | 13.1 | 0.2 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 60mm_M49A3_J11 | ln313inv8 |
| 246 | 757610.252 | 3638352.206 | 1 | 0 | 0.17 | -36.4 | 10.3 | C/O | 57mm_M86_J12 | 2.75in_M230_M10 | 81mm_M374_E02 | ln187inv16 |
| 247 | 757610.347 | 3638420.624 | 1 | 0 | 0.31 | -3.9 | 15 | C/O | 81mm_M374_C02 | 57mm_M86_L12 | 105mm_M456_Heat_B06 | ln257inv25 |
| 248 | 757611.605 | 3638397.074 | 1 | 0 | 0.04 | -115.5 | -5.3 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln233inv46 |
| 249 | 757612.536 | 3638393.122 | 1 | 0 | 0.28 | -133.1 | 7 | C/O | 81mm_M374_E02 | 2.75in_M230_M10 | 60mm_M49A3_J11 | ln229inv28 |
| 250 | 757615.368 | 3638430.119 | 1 | 0 | 0.1 | -152.8 | 3.8 | C/O | 81mm_M374_F02 | 2.75in_M230_M10 | 105mm_M60_L05 | ln266inv2 |
| 251 | 757617.87 | 3638474.86 | 1 | 0 | 0 | -159.4 | -75.7 | C/O | BLU-26_K13 | M75_D01 | 57mm_M86_L12 | ln312inv2 |
| 252 | 757621.845 | 3638437.332 | 1 | 0 | 0 | 33.8 | -2.2 | C/O | M42_K03 | 20mm_M55_I15 | 40mm_M385_pit | ln273inv14 |
| 253 | 757622.224 | 3638404.479 | 1 | 0 | 0 | 57.6 | -29.9 | C/O | 2.75in_M230_pit | 60mm_M49A3_F10 | 40mm_MKII_A03 | ln240_0019 |
| 254 | 757622.835 | 3638304.114 | 1 | 0 | 0.05 | 51.3 | -2.6 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln138_0029 |
| 255 | 757410.485 | 3638175.096 | 0.80529 | 1E-06 | 0.21 | 97.1 | -7.4 | C/O | M42_I03 | M75_B01 | MK118_Rockeye_J01 | ln38bgEW1 |
| 256 | 757421.884 | 3638496.36 | 1 | 1E-06 | 0.69 | -174 | 35.8 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_L04 | 105mm_M60_J05 | ln340inv17 |
| 257 | 757426.276 | 3638242.017 | 1 | 1E-06 | 0.13 | 0.8 | -50.5 | C/O | 57mm_M86_L12 | 40mm_MKII_E03 | M75_B01 | ln96inv30 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 258 | 757427.753 | 3638281.592 | 1 | 1E-06 | 0.1 | -54.6 | -27.5 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_A02 | ln123inv8 |
| 259 | 757429.628 | 3638317.043 | 1 | 1E-06 | 0.54 | 46.8 | -70.8 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln159inv7 |
| 260 | 757433.2 | 3638399.776 | 1 | 1E-06 | 0.39 | -162.8 | -64.1 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln242inv16 |
| 261 | 757434.16 | 3638384.697 | 1 | 1E-06 | 0 | -118.4 | 8.4 | C/O | 81mm_M374_E02 | 2.75in_M230_M10 | 60mm_M49A3_J11 | ln227in5 |
| 262 | 757440.573 | 3638450.626 | 0.99999 | 1E-06 | 0.06 | 96.7 | 10.3 | C/O | M42_K03 | 57mm_M86_L12 | M75_B01 | ln294invX16 |
| 263 | 757446.003 | 3638372.212 | 1 | 1E-06 | 0.57 | 46.7 | 12.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln214inv13 |
| 264 | 757447.069 | 3638402.516 | 0.99724 | 1E-06 | 0.04 | -43.3 | 7.1 | C/O | M42_J03 | 37mm_H09 | 40mm_MKII_pit | ln245inv9 |
| 265 | 757452.47 | 3638320.738 | 1 | 1E-06 | 0.14 | -132 | 6.9 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_M11 | ln161inv28 |
| 266 | 757459.117 | 3638386.45 | 1 | 1E-06 | 0.02 | 81.5 | 18.1 | C/O | 60mm_M49A3_F10 | 57mm_M86_pit | 81mm_M374_F02 | ln228inv3 |
| 267 | 757463.52 | 3638328.801 | 1 | 1E-06 | 0.12 | 72.1 | -68.8 | C/O | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | 105mm_M60_L05 | ln169inv16 |
| 268 | 757476.541 | 3638303.586 | 1 | 1E-06 | 0.66 | 48.8 | 19.3 | C/O | 155mm_M483A1_D04 | 105mm_M60_H05 | 105mm_M456_Heat_H06 | ln142inv11 |
| 269 | 757483.046 | 3638194.762 | 1 | 1E-06 | 0.01 | 51.3 | -0.7 | C/O | BDU-28_I02 | 40mm_MKII_E03 | MK118_Rockeye_M01 | ln48inv12 |
| 270 | 757483.732 | 3638189.519 | 1 | 1E-06 | 0.72 | 169.8 | -43.2 | C/O | 81mm_M374_A02 | 105mm_M456_Heat_B06 | 105mm_M60_B05 | ln42inv58 |
| 271 | 757496.627 | 3638486.978 | 1 | 1E-06 | 0.14 | 43 | -2.6 | C/O | BLU-26_I13 | 2.75in_M230_M10 | 57mm_M86_pit | line329inv35 |
| 272 | 757503.642 | 3638368.081 | 1 | 1E-06 | 0.13 | 117 | -80.4 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln208inv20 |
| 273 | 757523.865 | 3638388.984 | 1 | 1E-06 | 0 | -172.9 | -67.2 | C/O | 81mm_M374_F02 | 105mm_M60_L05 | 105mm_M456_Heat_J06 | ln228_0923 |
| 274 | 757524.376 | 3638240.726 | 1 | 1E-06 | 0.14 | -82.4 | -84.5 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln94inv4 |
| 275 | 757531.74 | 3638188.953 | 1 | 1E-06 | 0.24 | 109.9 | -85.6 | C/O | 57mm_M86_L12 | BDU-28_I02 | 37mm_H09 | ln41inv45 |
| 276 | 757540.413 | 3638428.51 | 0.99803 | 1E-06 | 0 | -6.8 | -69.5 | C/O | 155mm_M483A1_D04 | 105mm_M60_J05 | 105mm_M456_Heat_F06 | ln266_0815 |
| 277 | 757542.164 | 3638475.947 | 1 | 1E-06 | 0.09 | -141.2 | -79.1 | C/O | 2.75in_M230_K10 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln317inv28 |
| 278 | 757545.882 | 3638386.709 | 1 | 1E-06 | 0.29 | 75.6 | -81.3 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln225inv32 |
| 279 | 757552.322 | 3638447.012 | 1 | 1E-06 | 0.17 | 42.8 | -80.8 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln286inv11 |
| 280 | 757553.443 | 3638460.246 | 1 | 1E-06 | 0.31 | 179.5 | -81.6 | C/O | 81mm_M374_C02 | 2.75in_M230_M10 | 57mm_M86_J12 | ln300inv4 |
| 281 | 757554.005 | 3638482.798 | 1 | 1E-06 | 0.08 | -159 | -0.6 | C/O | 81mm_M374_E02 | 2.75in_M230_K10 | 105mm_M60_L05 | ln322_0524 |
| 282 | 757564.8 | 3638483.773 | 1 | 1E-06 | 0.82 | 36.6 | 10.6 | C/O | 155mm_M483A1_J04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln323inv11 |
| 283 | 757577.933 | 3638368.914 | 1 | 1E-06 | 0.36 | 163.6 | -52.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln206inv2 |
| 284 | 757579.407 | 3638482.757 | 1 | 1E-06 | 0.03 | 6.5 | 0.7 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln321inv23 |
| 285 | 757583.462 | 3638331.616 | 1 | 1E-06 | 0.12 | -14.3 | -13.9 | C/O | 2.75in_M230_K10 | 81mm_M374_C02 | 57mm_M86_L12 | ln167inv46 |
| 286 | 757585.907 | 3638404.207 | 1 | 1E-06 | 0.25 | 130.4 | -74.8 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 57mm_M86_J12 | ln241inv25 |
| 287 | 757587.387 | 3638271.583 | 1 | 1E-06 | 0 | -161.2 | 1.9 | C/O | M42_L03 | M75_A01 | BLU-26_M13 | ln106inv1 |
| 288 | 757588.894 | 3638494.943 | 1 | 1E-06 | 0.26 | -28 | 0.6 | C/O | 81mm_M374_A02 | 105mm_M60_L05 | 105mm_M456_Heat_J06 | ln333inv14 |
| 289 | 757613.599 | 3638443.575 | 1 | 1E-06 | 0.46 | 83.6 | -51.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln280inv3 |
| 290 | 757431.585 | 3638360.431 | 1 | 2E-06 | 0.09 | 46.7 | -41.3 | C/O | 105mm_M60_D05 | 2.75in_M230_H10 | 81mm_M374_B02 | ln203inv5 |
| 291 | 757440.653 | 3638173.01 | 1 | 2E-06 | 0.17 | 117 | -7.8 | C/O | 57mm_M86_L12 | M75_B01 | 40mm_MKII_E03 | ln26inv35 |
| 292 | 757443.883 | 3638307.12 | 0.99925 | 2E-06 | 0.15 | -84.2 | 0.1 | C/O | 37mm_K09 | MK118_Rockeye_pit | M75_E01 | ln147inv8 |
| 293 | 757444.546 | 3638185.623 | 1 | 2E-06 | 0.14 | 91.5 | -88.1 | C/O | BDU-28_I02 | 57mm_M86_L12 | M42_K03 | ln39inv15 |
| 294 | 757451.443 | 3638417.146 | 1 | 2E-06 | 0.25 | 91.7 | -88.1 | C/O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln260inv38 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 295 | 757465.301 | 3638196.735 | 1 | 2E-06 | 0.14 | -36.7 | -42.6 | C/O | 57mm_M86_L12 | BDU-28_I02 | 37mm_H09 | ln50inv33 |
| 296 | 757485.315 | 3638204.937 | 1 | 2E-06 | 0.23 | -35.9 | -53.7 | C/O | 105mm_M60_B05 | 81mm_M374_A02 | 105mm_M456_Heat_D06 | ln58inv39 |
| 297 | 757506.736 | 3638179.882 | 1 | 2E-06 | 0.65 | -26.4 | 3.7 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | ln31inv17 |
| 298 | 757527.149 | 3638400.697 | 1 | 2E-06 | 0.07 | 155.7 | -10.1 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 60mm_M49A3_F10 | ln240inv11 |
| 299 | 757527.849 | 3638248.507 | 1 | 2E-06 | 0.08 | -34.7 | 28.6 | C/O | BLU-26_I13 | M42_M03 | 57mm_M86_pit | ln102inv4 |
| 300 | 757528.7 | 3638194.994 | 1 | 2E-06 | 0.12 | -174.9 | -88.2 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln47inv7 |
| 301 | 757532.023 | 3638216.059 | 1 | 2E-06 | 0.19 | -2.3 | -87.5 | C/O | M42_K03 | 40mm_MKII_E03 | BDU-28_I02 | ln069inv38 |
| 302 | 757532.937 | 3638178.092 | 1 | 2E-06 | 0.17 | -9 | -84.8 | C/O | 40mm_MKII_E03 | 57mm_M86_L12 | M75_B01 | ln29inv19 |
| 303 | 757533.994 | 3638223.838 | 1 | 2E-06 | 0.23 | 157.7 | -2.4 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 57mm_M86_J12 | ln76inv12 |
| 304 | 757536.702 | 3638462.074 | 1 | 2E-06 | 0 | -37 | 25.9 | C/O | 40mm_M385_J14 | 20mm_M55_I15 | M42_K03 | ln303_0681 |
| 305 | 757545.028 | 3638369.632 | 1 | 2E-06 | 0.66 | 54.4 | -14.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln208inv13 |
| 306 | 757545.193 | 3638248.114 | 1 | 2E-06 | 0.42 | -62.3 | 4.2 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln102inv6 |
| 307 | 757571.953 | 3638502.972 | 0.99996 | 2E-06 | 0.14 | 62.8 | -11.2 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln342inv20 |
| 308 | 757581.929 | 3638440.157 | 1 | 2E-06 | 0.07 | 131.5 | 1.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln278inv5 |
| 309 | 757588.873 | 3638439.504 | 1 | 2E-06 | 0.1 | 31.3 | 9.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln277inv22 |
| 310 | 757599.518 | 3638298.507 | 1 | 2E-06 | 0.31 | -164.6 | -70 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln133inv31 |
| 311 | 757600.18 | 3638328.985 | 1 | 2E-06 | 0.07 | -76.9 | 29.3 | C/O | 2.75in_M230_pit | 81mm_M374_pit | 105mm_M456_Heat_B06 | ln163inv10 |
| 312 | 757600.581 | 3638398.759 | 1 | 2E-06 | 0.48 | -42.9 | 27.7 | C/O | 155mm_M483A1_L04 | 105mm_M60_L05 | 105mm_M456_Heat_H06 | ln235inv27 |
| 313 | 757603.764 | 3638491.881 | 1 | 2E-06 | 0.2 | -52.3 | 2.3 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_J06 | line329inv26 |
| 314 | 757422.363 | 3638312.36 | 1 | 3E-06 | 0.08 | -155.6 | -76 | C/O | 2.75in_M230_M10 | 57mm_M86_L12 | 81mm_M374_C02 | ln154inv18 |
| 315 | 757429.224 | 3638395.192 | 1 | 3E-06 | 0.46 | 104.8 | 17.2 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_H04 | 105mm_M60_J05 | ln238inv11 |
| 316 | 757441.331 | 3638360.937 | 1 | 3E-06 | 0.12 | 36.8 | -6.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_F01 | ln203inv7 |
| 317 | 757451.042 | 3638395.025 | 1 | 3E-06 | 0.01 | 81.1 | -58.7 | C/O | 2.75in_M230_K10 | 57mm_M86_L12 | 81mm_M374_E02 | ln237inv11 |
| 318 | 757460.737 | 3638435.4 | 1 | 3E-06 | 0 | -108 | 16.1 | C/O | M42_J03 | M75_B01 | 2.75in_M230_K10 | ln277inv14 |
| 319 | 757465.363 | 3638505.162 | 1 | 3E-06 | 0 | 50.3 | -4.2 | C/O | 57mm_M86_L12 | BDU-28_I02 | M42_K03 | ln347inv14 |
| 320 | 757466.919 | 3638190.975 | 1 | 3E-06 | 0.16 | -117.3 | -64.2 | C/O | 40mm_MKII_E03 | M42_K03 | BDU-28_I02 | ln44inv10 |
| 321 | 757487.396 | 3638344.121 | 1 | 3E-06 | 0 | 11.3 | 6.3 | C/O | M42_K03 | BDU-28_I02 | MK118_Rockeye_M01 | ln183inv15 |
| 322 | 757501.422 | 3638194.27 | 1 | 3E-06 | 0.1 | -77.1 | -2 | C/O | 57mm_M86_L12 | 40mm_MKII_E03 | M42_K03 | ln47inv5 |
| 323 | 757568.261 | 3638404.519 | 1 | 3E-06 | 0.16 | 34.7 | -61.4 | C/O | 105mm_M60_L05 | 155mm_M483A1_L04 | 105mm_M456_Heat_F06 | ln242inv8 |
| 324 | 757595.572 | 3638421.168 | 1 | 3E-06 | 0.2 | 93.5 | -4.1 | C/O | 81mm_M374_B02 | 2.75in_M230_M10 | 60mm_M49A3_J11 | ln258inv14 |
| 325 | 757597.994 | 3638432.702 | 1 | 3E-06 | 0.16 | -102.3 | -0.1 | C/O | 2.75in_M230_pit | 105mm_M456_Heat_pit | 57mm_M86_K12 | ln269inv25 |
| 326 | 757610.771 | 3638337.009 | 1 | 3E-06 | 0 | -76.9 | -80 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln172_0098 |
| 327 | 757613.979 | 3638463.152 | 1 | 3E-06 | 0.63 | -10.4 | -15.1 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln301inv10 |
| 328 | 757422.47 | 3638433.821 | 1 | 4E-06 | 0.13 | 15.3 | -7.3 | C/O | 2.75in_M230_K10 | 81mm_M374_B02 | 105mm_M60_L05 | ln277inv6 |
| 329 | 757437.576 | 3638372.743 | 1 | 4E-06 | 0.56 | 36.6 | -46.9 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_B06 | ln215inv10 |
| 330 | 757447.639 | 3638215.031 | 1 | 4E-06 | 0.07 | -2.4 | -75.8 | C/O | 57mm_M86_L12 | 37mm_H09 | 40mm_MKII_A03 | ln069inv34 |
| 331 | 757448.127 | 3638266.441 | 1 | 4E-06 | 0.02 | -69.3 | 4.2 | C/O | M75_A01 | 57mm_M86_L12 | 40mm_MKII_A03 | ln107_0143 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 332 | 757491.206 | 3638224.855 | 1 | 4E-06 | 0.14 | 101.3 | 28.4 | C/O | 57mm_M86_L12 | M75_B01 | 40mm_MKII_E03 | ln78inv4 |
| 333 | 757554 | 3638378.544 | 1 | 4E-06 | 0.1 | 11 | -3.1 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_J06 | ln217inv26 |
| 334 | 757583.213 | 3638422.985 | 1 | 4E-06 | 0.65 | -172.1 | 2.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln260inv22 |
| 335 | 757602.895 | 3638438.698 | 1 | 4E-06 | 0.19 | -28.7 | -15.9 | C/O | 81mm_M374_F02 | 2.75in_M230_K10 | 105mm_M60_L05 | ln275_0990 |
| 336 | 757424.205 | 3638364.078 | 1 | 5E-06 | 0.22 | -99 | 3.3 | C/O | 2.75in_M230_K10 | 60mm_M49A3_F10 | 81mm_M374_E02 | ln207inv6 |
| 337 | 757426.995 | 3638378.672 | 1 | 5E-06 | 0.57 | 59.6 | -5.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln222inv28 |
| 338 | 757481.449 | 3638218.941 | 1 | 5E-06 | 0.26 | -86.9 | 7.5 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln073inv105 |
| 339 | 757493.503 | 3638246.218 | 1 | 5E-06 | 0.13 | -67.1 | 3.9 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln100inv12 |
| 340 | 757495.642 | 3638172.612 | 1 | 5E-06 | 0.2 | -145.6 | -0.4 | C/O | 40mm_MKII_E03 | BDU-28_I02 | MK118_Rockeye_M01 | ln24inv16 |
| 341 | 757505.156 | 3638234.81 | 1 | 5E-06 | 0.24 | 176.3 | -59.8 | C/O | BDU-28_I02 | 57mm_M86_L12 | 37mm_H09 | ln88inv14 |
| 342 | 757529.225 | 3638501.372 | 1 | 5E-06 | 0.26 | -7.2 | -14.5 | C/O | M42_I03 | 40mm_MKII_pit | 20mm_M55_M15 | ln341_1308 |
| 343 | 757559.243 | 3638355.811 | 1 | 5E-06 | 0 | -116 | -53.9 | C/O | 57mm_M86_pit | 60mm_M49A3_F10 | 2.75in_M230_M10 | ln193inv14 |
| 344 | 757599.539 | 3638436.137 | 1 | 5E-06 | 0.31 | -53.4 | 4.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln273inv12 |
| 345 | 757601.422 | 3638495.362 | 1 | 5E-06 | 0.35 | -31.6 | 1 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_J06 | ln333inv17 |
| 346 | 757624.14 | 3638408.408 | 1 | 5E-06 | 0 | 115.9 | -2.4 | C/O | 40mm_MKII_E03 | M75_B01 | MK118_Rockeye_J01 | ln244_0011 |
| 347 | 757411.248 | 3638428.434 | 0.94129 | 6E-06 | 0 | 158.3 | -3.8 | C/O | M42_K03 | M75_B01 | 20mm_M55_I15 | ln272inv16 |
| 348 | 757448.673 | 3638209.983 | 0.99794 | 6E-06 | 0.22 | -77.5 | 4.4 | C/O | MK118_Rockeye_pit | M42_J03 | 37mm_K09 | ln63_0330 |
| 349 | 757458.589 | 3638296.568 | 1 | 6E-06 | 0 | -83.1 | -15.1 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_K10 | ln135inv15 |
| 350 | 757485.16 | 3638245.929 | 1 | 6E-06 | 0.14 | 2.6 | -22.9 | C/O | 57mm_M86_L12 | BDU-28_I02 | 37mm_H09 | ln100inv11 |
| 351 | 757502.601 | 3638189.702 | 1 | 6E-06 | 0.2 | 144.8 | -2.3 | C/O | 57mm_M86_L12 | BDU-28_I02 | M42_K03 | ln42inv55 |
| 352 | 757509.101 | 3638443.773 | 1 | 6E-06 | 0.14 | -166 | -5.9 | C/O | 81mm_M374_D02 | 105mm_M456_Heat_pit | 105mm_M60_B05 | ln284inv14 |
| 353 | 757525.793 | 3638393.113 | 1 | 6E-06 | 0.12 | -148.3 | 22 | C/O | 81mm_M374_E02 | 2.75in_M230_K10 | 57mm_M86_L12 | ln232inv22 |
| 354 | 757551.307 | 3638492.764 | 1 | 6E-06 | 0.6 | 139.4 | -54.3 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 2.75in_M230_L10 | ln332inv8 |
| 355 | 757580.673 | 3638324.548 | 1 | 6E-06 | 0.03 | 48.7 | -2.4 | C/O | 57mm_M86_L12 | M75_B01 | 40mm_MKII_E03 | ln160inv2 |
| 356 | 757586.036 | 3638328.846 | 1 | 6E-06 | 0.24 | 51.8 | 1.2 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln164inv13 |
| 357 | 757441.156 | 3638160.01 | 1 | 7E-06 | 0.13 | -126.5 | -5.3 | C/O | 57mm_M86_L12 | M75_B01 | BDU-28_I02 | ln13inv26 |
| 358 | 757443.335 | 3638244.41 | 1 | 7E-06 | 0.16 | -36.3 | -27.3 | C/O | 57mm_M86_L12 | 37mm_H09 | BDU-28_M02 | ln99bgEW9 |
| 359 | 757458.247 | 3638193.435 | 1 | 7E-06 | 0.21 | -11.2 | -1.4 | C/O | BDU-28_I02 | 57mm_M86_L12 | 40mm_MKII_E03 | ln47inv2 |
| 360 | 757461.487 | 3638355.269 | 1 | 7E-06 | 0.19 | 149.9 | 3.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln196inv16 |
| 361 | 757463.581 | 3638367.731 | 1 | 7E-06 | 0 | 87.4 | 1 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln208inv27 |
| 362 | 757561.731 | 3638369.047 | 1 | 7E-06 | 0.28 | -140.2 | -35.1 | C/O | 155mm_M483A1_J04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln206inv11 |
| 363 | 757566.081 | 3638290.843 | 1 | 7E-06 | 0.29 | -167.4 | -4.2 | C/O | 81mm_M374_A02 | 105mm_M60_B05 | 105mm_M456_Heat_D06 | ln126inv10 |
| 364 | 757581.057 | 3638385.755 | 1 | 7E-06 | 0.63 | 36.5 | -3.5 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_L04 | ln223inv19 |
| 365 | 757599.611 | 3638420.789 | 1 | 7E-06 | 0.09 | -82.5 | 0.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln257inv23 |
| 366 | 757603.649 | 3638504.856 | 1 | 7E-06 | 0.29 | 61.7 | -60.9 | C/O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_L04 | ln343inv9 |
| 367 | 757609.814 | 3638449.578 | 1 | 7E-06 | 0.08 | 89.4 | -1.6 | C/O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln286inv2 |
| 368 | 757415.344 | 3638504.251 | 0.90763 | 8E-06 | 1.94 | 171.3 | -41.4 | C/O | 155mm_M483A1_D04 | 105mm_M60_F05 | 105mm_M456_Heat_F06 | ln350_2094 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 369 | 757471.523 | 3638182.047 | 0.99999 | 8E-06 | 0.34 | 74.4 | 5.8 | C/O | M42_I03 | M75_A01 | BLU-26_M13 | ln34inv3 |
| 370 | 757482.062 | 3638428.244 | 1 | 8E-06 | 0.06 | 170.6 | 1 | C/O | 81mm_M374_C02 | 2.75in_M230_M10 | 105mm_M60_L05 | ln270l2inv16 |
| 371 | 757536.355 | 3638248.64 | 1 | 8E-06 | 0.52 | -120.3 | -20.3 | C/O | 105mm_M60_H05 | 105mm_M456_Heat_B06 | 81mm_M374_D02 | ln102inv5 |
| 372 | 757539.473 | 3638196.562 | 1 | 8E-06 | 0.12 | -96.9 | -0.7 | C/O | 40mm_MKII_E03 | BDU-28_I02 | MK118_Rockeye_M01 | ln49inv29 |
| 373 | 757539.832 | 3638372.175 | 1 | 8E-06 | 0.54 | -73.5 | -20.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln211inv18 |
| 374 | 757569.879 | 3638464.166 | 1 | 8E-06 | 0.16 | 46.4 | 4.1 | C/O | M75_A01 | 40mm_MKII_A03 | 37mm_H09 | ln304_0332 |
| 375 | 757453.993 | 3638259.134 | 1 | 9E-06 | 0.16 | 134.6 | 1.8 | C/O | BLU-26_K13 | 57mm_M86_J12 | 60mm_M49A3_J11 | ln113inv17 |
| 376 | 757472.227 | 3638201.617 | 1 | 9E-06 | 0.14 | -76 | 25.2 | C/O | M42_M03 | BLU-26_J13 | M75_A01 | ln55inv13 |
| 377 | 757529.936 | 3638198.131 | 1 | 9E-06 | 0.21 | 63 | -11.5 | C/O | 57mm_M86_L12 | 37mm_H09 | M75_B01 | ln50inv30 |
| 378 | 757579.57 | 3638328.116 | 1 | 9E-06 | 0.02 | -37.2 | 3.3 | C/O | 57mm_M86_L12 | BDU-28_I02 | 37mm_H09 | ln163inv4 |
| 379 | 757582.343 | 3638463.291 | 1 | 9E-06 | 0.14 | 53.7 | 1.8 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_H10 | ln3024 |
| 380 | 757606.059 | 3638464.666 | 1 | 9E-06 | 0.02 | 93.2 | -79.8 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_J06 | ln302_0143 |
| 381 | 757614.585 | 3638500.128 | 1 | 9E-06 | 0.11 | 137.1 | -23.9 | C/O | BLU-26_M13 | M42_M03 | M75_A01 | ln338inv3 |
| 382 | 757439.314 | 3638465.094 | 1 | 1E-05 | 0.11 | -113.1 | -4.9 | C/O | M75_E01 | BLU-26_M13 | 40mm_MKII_B03 | ln309inv5 |
| 383 | 757444.834 | 3638161.344 | 1 | 1E-05 | 0.23 | -113.3 | -79 | C/O | BDU-28_I02 | 57mm_M86_L12 | 37mm_H09 | ln14inv55 |
| 384 | 757466.02 | 3638355.018 | 1 | 1E-05 | 0.58 | -34.2 | -28.1 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln195inv15 |
| 385 | 757466.021 | 3638362.312 | 1 | 1E-05 | 0.08 | -99.7 | -24.8 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln203inv13 |
| 386 | 757496.705 | 3638175.635 | 1 | 1E-05 | 0.13 | -83.2 | 0.4 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln27inv49 |
| 387 | 757573.843 | 3638241.619 | 1 | 1E-05 | 0.23 | -179 | -58 | C/O | BLU-26_J13 | 2.75in_M230_pit | 60mm_M49A3_pit | ln96inv19 |
| 388 | 757574.514 | 3638288.046 | 1 | 1E-05 | 0.15 | -15.3 | 43.6 | C/O | BLU-26_J13 | M42_J03 | M75_C01 | ln123inv16 |
| 389 | 757608.058 | 3638333.236 | 1 | 1E-05 | 0.02 | 66.2 | -1.3 | C/O | 57mm_M86_L12 | M42_K03 | M75_B01 | ln168inv2 |
| 390 | 757432.266 | 3638353.862 | 1 | 1E-05 | 0 | 98.5 | -1.3 | C/O | M42_K03 | 57mm_M86_L12 | M75_B01 | ln196inv28 |
| 391 | 757439.119 | 3638354.834 | 1 | 1E-05 | 0.39 | 145.7 | 1.9 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln196inv26 |
| 392 | 757449.91 | 3638333.019 | 1 | 1E-05 | 0.3 | -68.5 | -33.2 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln173inv19 |
| 393 | 757474.618 | 3638364.856 | 1 | 1E-05 | 0.11 | 46.3 | -72.6 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln206inv21 |
| 394 | 757435.771 | 3638376.841 | 0.99892 | 1E-05 | 0.29 | -56.5 | -5.5 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 40mm_MKII_A03 | ln219_0114 |
| 395 | 757462.162 | 3638381.03 | 1 | 1E-05 | 0 | 76.8 | -29.1 | C/O | 37mm_K09 | 57mm_M86_pit | 2.75in_M230_K10 | ln222inv22 |
| 396 | 757475.058 | 3638504.541 | 1 | 1E-05 | 0.1 | -19.1 | -43.1 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln3463 |
| 397 | 757538.776 | 3638188.581 | 1 | 1E-05 | 0.14 | -68.6 | -2.5 | C/O | M75_B01 | 57mm_M86_L12 | BDU-28_I02 | ln41inv46 |
| 398 | 757594.513 | 3638431.167 | 1 | 1E-05 | 0.35 | -159 | 2.8 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln268inv5 |
| 399 | 757502.233 | 3638500.071 | 1 | 1E-05 | 0.26 | 14.4 | 1.8 | C/O | 57mm_M86_J12 | 60mm_M49A3_pit | 81mm_M374_pit | ln341inv36 |
| 400 | 757520.232 | 3638352.533 | 1 | 1E-05 | 0.08 | 2 | 7.3 | C/O | 57mm_M86_L12 | M42_K03 | M75_B01 | ln191inv9 |
| 401 | 757422.743 | 3638288.418 | 1 | 2E-05 | 0.43 | -85.2 | -82.9 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln13012 |
| 402 | 757445.661 | 3638320.685 | 1 | 2E-05 | 0.1 | -13.1 | 7.9 | C/O | 2.75in_M230_pit | 57mm_M86_K12 | BLU-26_J13 | ln161inv24 |
| 403 | 757507.127 | 3638357.57 | 1 | 2E-05 | 0.13 | -37.4 | -73.5 | C/O | MK118_Rockeye_pit | 37mm_K09 | 57mm_M86_pit | ln197_0610 |
| 404 | 757570.64 | 3638487.259 | 1 | 2E-05 | 0.28 | 125.9 | -5.9 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 60mm_M49A3_pit | ln326inv8 |
| 405 | 757568.557 | 3638441.635 | 1 | 2E-05 | 0.01 | -113.4 | -84.9 | C/O | 81mm_M374_C02 | 2.75in_M230_K10 | 105mm_M456_Heat_B06 | ln280inv15 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 406 | 757446.154 | 3638275.231 | 1 | 2E-05 | 0.26 | 108.4 | -2.3 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 40mm_MKII_E03 | ln118inv6 |
| 407 | 757488.922 | 3638391.286 | 1 | 2E-05 | 0.36 | 80.3 | -11.2 | C/O | BLU-26_J13 | M42_M03 | 57mm_M86_K12 | ln232inv30 |
| 408 | 757540.706 | 3638431.162 | 1 | 2E-05 | 0.01 | 109.3 | -2.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln270l2inv12 |
| 409 | 757541.967 | 3638360.425 | 0.99843 | 2E-05 | 0.08 | -148 | -49.6 | C/O | M42_I03 | M75_B01 | 57mm_M86_L12 | ln198inv6 |
| 410 | 757576.598 | 3638442.407 | 0.98852 | 2E-05 | 0.58 | 106.2 | -12.3 | C/O | 2.75in_M230_pit | 60mm_M49A3_pit | 57mm_M86_K12 | ln280_0553 |
| 411 | 757584.062 | 3638389.952 | 1 | 2E-05 | 0.56 | -151.1 | -47.6 | C/O | 81mm_M374_pit | 105mm_M456_Heat_B06 | 2.75in_M230_K10 | ln227in36 |
| 412 | 757429.151 | 3638226.771 | 0.99885 | 2E-05 | 0.1 | 83.3 | -3.6 | C/O | M42_I03 | 37mm_H09 | 40mm_MKII_pit | ln80inv15 |
| 413 | 757441.628 | 3638194.908 | 1 | 2E-05 | 0.14 | -161.2 | -6.8 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln48inv16 |
| 414 | 757522.568 | 3638250.116 | 1 | 2E-05 | 0.02 | -63.1 | 4.9 | C/O | 57mm_M86_L12 | 40mm_MKII_E03 | M75_B01 | ln104inv11 |
| 415 | 757459.434 | 3638288.431 | 1 | 2E-05 | 0.17 | 109.4 | -1.6 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln128inv13 |
| 416 | 757465.324 | 3638356.92 | 0.95748 | 2E-05 | 0 | 133.8 | -60.5 | C/O | 60mm_M49A3_pit | BLU-26_I13 | M75_D01 | ln199_2846 |
| 417 | 757492.281 | 3638441.112 | 1 | 2E-05 | 0.22 | -137.2 | 19.1 | C/O | 81mm_M374_A02 | 105mm_M60_D05 | 105mm_M456_Heat_D06 | ln282inv29 |
| 418 | 757561.527 | 3638341.745 | 1 | 2E-05 | 0.14 | -153.6 | 7.3 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln178inv2 |
| 419 | 757610.303 | 3638504.511 | 1 | 2E-05 | 0.17 | -171.9 | -73.6 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_L04 | ln343inv13 |
| 420 | 757630.877 | 3638336.271 | 0.9997 | 2E-05 | 0 | -159.6 | -63.8 | C/O | 2.75in_M230_pit | 37mm_K09 | M42_J03 | ln170bgWapr123 |
| 421 | 757462.106 | 3638328.099 | 1 | 2E-05 | 0.22 | 52.6 | -16.5 | C/O | 155mm_M483A1_H04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln168inv21 |
| 422 | 757480.206 | 3638409.757 | 1 | 2E-05 | 0 | -93.3 | -86.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln251inv5 |
| 423 | 757497.715 | 3638170.401 | 1 | 2E-05 | 0.18 | 57.5 | 1.7 | C/O | 57mm_M86_L12 | M75_B01 | 40mm_MKII_E03 | ln22inv49 |
| 424 | 757570.964 | 3638454.182 | 1 | 2E-05 | 0.2 | -49.9 | -31.5 | C/O | 60mm_M49A3_F10 | 2.75in_M230_K10 | 57mm_M86_L12 | ln293inv12 |
| 425 | 757468.642 | 3638242.696 | 1 | 2E-05 | 0.47 | 91.8 | -79.3 | C/O | 81mm_M374_E02 | 2.75in_M230_M10 | 105mm_M60_L05 | ln96inv27 |
| 426 | 757521.951 | 3638244.662 | 1 | 2E-05 | 0.13 | -61.4 | 3.3 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln99bgEW15 |
| 427 | 757532.236 | 3638226.318 | 1 | 2E-05 | 0.18 | 178.7 | -3.8 | C/O | 2.75in_M230_K10 | 81mm_M374_E02 | 57mm_M86_L12 | ln80inv13 |
| 428 | 757488.624 | 3638338.709 | 1 | 3E-05 | 0.05 | 3.1 | -70.2 | C/O | M42_I03 | 37mm_H09 | 40mm_MKII_pit | ln178inv5 |
| 429 | 757491.978 | 3638368.682 | 1 | 3E-05 | 0.09 | 137 | 5.1 | C/O | 57mm_M86_pit | 60mm_M49A3_K11 | M75_C01 | ln210inv2 |
| 430 | 757521.602 | 3638461.292 | 1 | 3E-05 | 0.03 | 178.1 | 6.7 | C/O | M75_B01 | M42_K03 | 57mm_M86_L12 | ln30210 |
| 431 | 757462.528 | 3638188.976 | 1 | 3E-05 | 0.57 | 158.5 | 13.4 | C/O | 155mm_M483A1_B04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln42inv60 |
| 432 | 757442.737 | 3638345.183 | 1 | 3E-05 | 0 | -47.6 | 35 | C/O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln187inv3 |
| 433 | 757449.816 | 3638326.433 | 1 | 3E-05 | 0.1 | -62.1 | 5.8 | C/O | 37mm_K09 | M42_J03 | BLU-26_M13 | ln167inv27 |
| 434 | 757503.242 | 3638246.043 | 1 | 3E-05 | 0.22 | 7.8 | -59.3 | C/O | 57mm_M86_L12 | 37mm_H09 | 40mm_MKII_E03 | ln100inv13 |
| 435 | 757580.618 | 3638273.733 | 1 | 3E-05 | 0.15 | 25 | -75.1 | C/O | M75_B01 | 57mm_M86_L12 | BLU-26_M13 | ln108inv2 |
| 436 | 757443.976 | 3638355.994 | 1 | 3E-05 | 0.29 | 133.4 | 2.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln198inv14 |
| 437 | 757459.348 | 3638284.892 | 1 | 3E-05 | 0.1 | 92.7 | -48.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln125inv11 |
| 438 | 757463.049 | 3638394.378 | 1 | 3E-05 | 0.01 | -139.4 | 19.3 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 60mm_M49A3_K11 | ln236inv12 |
| 439 | 757511.215 | 3638240.072 | 1 | 3E-05 | 0.13 | -141.2 | -53.9 | C/O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln94inv6 |
| 440 | 757456.132 | 3638378.864 | 1 | 3E-05 | 0.06 | -44.8 | -20.9 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln221inv13 |
| 441 | 757479.836 | 3638250.152 | 1 | 3E-05 | 0.04 | -102 | 2.5 | C/O | 57mm_M86_L12 | M75_B01 | BDU-28_I02 | ln104inv9 |
| 442 | 757534.47 | 3638188.096 | 1 | 3E-05 | 0.05 | 133.3 | 0.9 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_H09 | ln40inv6 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 443 | 757576.911 | 3638250.04 | 1 | 4E-05 | 0.12 | 160.2 | 5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln105inv19 |
| 444 | 757593.915 | 3638415.126 | 1 | 4E-05 | 0.52 | 134.5 | -8.7 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | ln252inv12 |
| 445 | 757442.559 | 3638330.074 | 1 | 4E-05 | 0.03 | 91.8 | -57.2 | C/O | 37mm_H09 | 40mm_MKII_pit | MK118_Rockeye_J01 | ln171_0264 |
| 446 | 757553.694 | 3638238.216 | 1 | 4E-05 | 0.31 | 0.3 | -79.5 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 2.75in_M230_L10 | ln92inv11 |
| 447 | 757597.583 | 3638366.639 | 1 | 4E-05 | 0.31 | 91.3 | -64.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln203inv23 |
| 448 | 757557.668 | 3638258.475 | 0.9995 | 4E-05 | 0.17 | -152.6 | 1.4 | C/O | M42_K03 | 20mm_M55_J15 | 57mm_M86_L12 | ln113inv13 |
| 449 | 757589.867 | 3638343.415 | 1 | 4E-05 | 0.19 | -126.1 | 0.3 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln179inv9 |
| 450 | 757616.647 | 3638492.462 | 1 | 4E-05 | 0 | -131.5 | -48.1 | C/O | 40mm_M385_J14 | 57mm_M86_L12 | 20mm_M55_I15 | ln330_0013 |
| 451 | 757423.895 | 3638264.886 | 1 | 4E-05 | 0.12 | -25.7 | -3.8 | C/O | 105mm_M60_H05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln107inv5 |
| 452 | 757436.008 | 3638368.208 | 1 | 4E-05 | 0.11 | -87.4 | 13 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln211_0120 |
| 453 | 757577.014 | 3638315.08 | 1 | 4E-05 | 0.04 | 74.7 | 0.1 | C/O | 40mm_MKII_E03 | BDU-28_I02 | 57mm_M86_L12 | ln1501inv43 |
| 454 | 757494.852 | 3638167.716 | 1 | 4E-05 | 0.08 | -98.2 | 0.9 | C/O | 57mm_M86_L12 | 40mm_MKII_E03 | M75_B01 | ln19inv12 |
| 455 | 757567.794 | 3638264.809 | 0.9579 | 4E-05 | 0 | -85 | 3.2 | C/O | 81mm_M374_D02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln103_1717 |
| 456 | 757428.131 | 3638184.362 | 1 | 5E-05 | 0.23 | -168.3 | 1.9 | C/O | 37mm_H09 | 57mm_M86_L12 | BDU-28_I02 | ln38inv1 |
| 457 | 757554.51 | 3638321.785 | 1 | 5E-05 | 0.54 | 161.8 | 32.4 | C/O | 81mm_M374_F02 | 2.75in_M230_K10 | 105mm_M456_Heat_B06 | ln158inv8 |
| 458 | 757420.082 | 3638397.907 | 1 | 5E-05 | 0.02 | 32.3 | 10.9 | C/O | 57mm_M86_L12 | M75_C01 | 60mm_M49A3_K11 | ln241inv7 |
| 459 | 757575.077 | 3638291.043 | 1 | 5E-05 | 0.14 | -145.4 | 10.4 | C/O | 57mm_M86_L12 | 40mm_MKII_E03 | 60mm_M49A3_K11 | ln126_0232 |
| 460 | 757576.823 | 3638334.523 | 1 | 5E-05 | 0.1 | 152.4 | -9.2 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 60mm_M49A3_K11 | ln170inv21 |
| 461 | 757570.533 | 3638441.622 | 1 | 6E-05 | 0.23 | -142.7 | 4.4 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln280inv11 |
| 462 | 757584.051 | 3638290.851 | 1 | 6E-05 | 0.18 | 90.9 | 4.2 | C/O | M75_D01 | 57mm_M86_J12 | BLU-26_H13 | ln126inv3 |
| 463 | 757609.283 | 3638430.694 | 1 | 6E-05 | 0.09 | 0 | -13.5 | C/O | 81mm_M374_E02 | 2.75in_M230_M10 | 60mm_M49A3_F10 | ln267inv17 |
| 464 | 757556.172 | 3638468.631 | 1 | 6E-05 | 0.06 | -147.4 | 3 | C/O | 81mm_M374_C02 | 57mm_M86_J12 | 2.75in_M230_M10 | ln308_0428 |
| 465 | 757482.817 | 3638194.317 | 1 | 6E-05 | 0.04 | -132.1 | -1.6 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln47inv4 |
| 466 | 757534.987 | 3638182.785 | 1 | 6E-05 | 0.08 | 26.7 | 3.3 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_H09 | ln33inv7 |
| 467 | 757451.032 | 3638368.974 | 1 | 7E-05 | 0.08 | -10.3 | -5.1 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 60mm_M49A3_M11 | ln211inv12 |
| 468 | 757534.847 | 3638197.091 | 1 | 7E-05 | 0.19 | -112.7 | -1.1 | C/O | BDU-28_I02 | 40mm_MKII_E03 | MK118_Rockeye_M01 | ln49inv28 |
| 469 | 757539.883 | 3638362.917 | 1 | 7E-05 | 0.06 | 25.7 | -6.5 | C/O | 60mm_M49A3_M11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln201inv10 |
| 470 | 757539.65 | 3638400.007 | 1 | 7E-05 | 0.1 | 1.6 | 0.6 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln239inv16 |
| 471 | 757569.91 | 3638474.675 | 1 | 7E-05 | 0.04 | -52.4 | -85.6 | C/O | 155mm_M483A1_L04 | 105mm_M60_L05 | 105mm_M456_Heat_H06 | ln314inv2 |
| 472 | 757447.37 | 3638383.596 | 1 | 7E-05 | 0.16 | 107.8 | 27.4 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln226inv28 |
| 473 | 757531.368 | 3638294.161 | 1 | 7E-05 | 0.1 | -82.6 | 4.4 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_H09 | ln131inv10 |
| 474 | 757583.371 | 3638409.552 | 1 | 7E-05 | 0.16 | 148.3 | -83.2 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_L04 | ln247inv8 |
| 475 | 757540.905 | 3638233.478 | 1 | 8E-05 | 0.37 | -58.6 | 4 | C/O | 2.75in_M230_M10 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln87inv11 |
| 476 | 757513.898 | 3638406.559 | 1 | 8E-05 | 0.07 | -103.1 | -82.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln246inv13 |
| 477 | 757593.817 | 3638294.502 | 0.99419 | 8E-05 | 0.36 | 20.4 | 2.6 | C/O | M75_C01 | BLU-26_M13 | 40mm_MKII_A03 | ln129inv14 |
| 478 | 757601.78 | 3638358.701 | 1 | 8E-05 | 0.13 | 48 | 11.9 | C/O | BLU-26_L13 | 60mm_M49A3_F10 | M42_M03 | ln194_0135 |
| 479 | 757575.844 | 3638396.115 | 1 | 8E-05 | 0.07 | 16.3 | -11.8 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln233inv38 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 480 | 757568.314 | 3638290.832 | 1 | 8E-05 | 0.13 | 81.9 | -4.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_F01 | ln126inv7 |
| 481 | 757565.98 | 3638252.583 | 1 | 8E-05 | 0.19 | 74 | -75.4 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_H09 | line107inv20 |
| 482 | 757524.199 | 3638229.811 | 1 | 9E-05 | 0.33 | -129.7 | -2.5 | C/O | 81mm_M374_A02 | 2.75in_M230_K10 | 105mm_M60_H05 | ln83inv34 |
| 483 | 757454.236 | 3638374.762 | 1 | 9E-05 | 0.27 | 154.4 | 6.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln216b3gEast20 |
| 484 | 757581.464 | 3638248.907 | 1 | 9E-05 | 0.13 | 30.3 | -0.2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln104inv17 |
| 485 | 757605.564 | 3638434.021 | 1 | 9E-05 | 0.36 | 156.5 | -65.3 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln270l2inv7 |
| 486 | 757464.732 | 3638474.197 | 1 | 9E-05 | 0.07 | -106.4 | 1.6 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 2.75in_M230_K10 | ln317inv11 |
| 487 | 757524.334 | 3638189.68 | 0.99999 | 9E-05 | 0.2 | 85.8 | 1.5 | C/O | M42_K03 | 57mm_M86_L12 | 40mm_MKII_E03 | ln42inv50 |
| 488 | 757446.119 | 3638323.333 | 1 | 1E-04 | 0.12 | -159.3 | -5.1 | C/O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_pit | ln164inv29 |
| 489 | 757590.003 | 3638398.753 | 1 | 1E-04 | 0.06 | -55.6 | -5.7 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln235inv21 |
| 490 | 757557.726 | 3638349.507 | 1 | 0.0001 | 0.1 | 52.4 | 0.6 | C/O | M75_E01 | BLU-26_M13 | 40mm_MKII_B03 | ln186inv2 |
| 491 | 757467.162 | 3638477.934 | 1 | 0.0001 | 0.23 | 49.9 | 6.3 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln320inv12 |
| 492 | 757514.04 | 3638240.212 | 1 | 0.0001 | 0.15 | -131.3 | -52 | C/O | 57mm_M86_L12 | 40mm_MKII_E03 | M75_B01 | ln94inv5 |
| 493 | 757441.194 | 3638290.369 | 1 | 0.0001 | 0.1 | -107.6 | -8.2 | C/O | M42_K03 | 57mm_M86_L12 | M75_B01 | ln131inv5 |
| 494 | 757553.022 | 3638381.99 | 1 | 0.0001 | 0.32 | -156.2 | 18.2 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln22010 |
| 495 | 757480.211 | 3638223.32 | 1 | 0.0001 | 0.32 | -23.2 | -19.8 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_B05 | ln77_0787 |
| 496 | 757540.862 | 3638469.784 | 1 | 0.0001 | 0 | 34.3 | -1.5 | C/O | 2.75in_M230_K10 | 60mm_M49A3_M11 | 81mm_M374_pit | ln311inv22 |
| 497 | 757516.212 | 3638417.178 | 1 | 0.0001 | 0.32 | 109.9 | -75.9 | C/O | 105mm_M456_Heat_pit | 155mm_M483A1_L04 | 105mm_M60_L05 | ln256x57inv23 |
| 498 | 757442.051 | 3638420.561 | 1 | 0.0001 | 0.35 | -66.3 | -52.4 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln263inv7 |
| 499 | 757442.307 | 3638369.137 | 1 | 0.0001 | 0.34 | 4.3 | 7 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln211inv9 |
| 500 | 757509.383 | 3638420.416 | 0.99993 | 0.0001 | 0 | 125.3 | -4.4 | C/O | MK118_Rockeye_M01 | BDU-28_I02 | 40mm_M385_pit | ln260_0881 |
| 501 | 757418.989 | 3638352.806 | 1 | 0.0001 | 0.25 | -133.3 | -63.4 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln195inv6 |
| 502 | 757473.823 | 3638288.889 | 1 | 0.0001 | 0.19 | 46.3 | -4.5 | C/O | 105mm_M60_F05 | 155mm_M483A1_H04 | 105mm_M456_Heat_pit | ln128inv9 |
| 503 | 757548.968 | 3638247.06 | 1 | 0.0001 | 0.06 | 92.2 | 0.7 | C/O | 57mm_M86_L12 | M75_B01 | 40mm_MKII_E03 | ln101inv18 |
| 504 | 757472.111 | 3638362.699 | 1 | 0.0001 | 0 | 51.7 | -69.8 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln203inv16 |
| 505 | 757435.422 | 3638407.564 | 1 | 0.0001 | 0.12 | 167.9 | -8.6 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln250inv25 |
| 506 | 757578.026 | 3638301.462 | 1 | 0.0001 | 0.07 | 3.2 | -79.8 | C/O | 2.75in_M230_K10 | 60mm_M49A3_M11 | 81mm_M374_C02 | ln135_1066 |
| 507 | 757455.582 | 3638277.357 | 0.99998 | 0.0001 | 0.12 | -79.5 | -82.5 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln118_0732 |
| 508 | 757459.921 | 3638244.257 | 1 | 0.0001 | 0.16 | 14.4 | 3.8 | C/O | 57mm_M86_L12 | BDU-28_I02 | M42_K03 | ln99bgEW12 |
| 509 | 757451.24 | 3638244.459 | 1 | 0.0001 | 0.14 | -172.6 | -12.3 | C/O | 37mm_H09 | 57mm_M86_L12 | 40mm_MKII_E03 | ln98inv16 |
| 510 | 757591.626 | 3638500.009 | 1 | 0.0001 | 0.07 | -108.6 | -4.2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln339inv9 |
| 511 | 757627.7 | 3638363.442 | 0.99972 | 0.0002 | 0 | 104.4 | -24.7 | C/O | M42_J03 | 37mm_M09 | 40mm_MKII_pit | ln199_1751 |
| 512 | 757525.106 | 3638174.257 | 1 | 0.0002 | 0.28 | -63.1 | 0.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln25inv21 |
| 513 | 757600.52 | 3638393.461 | 1 | 0.0002 | 0.17 | 112.3 | -3.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln230inv5 |
| 514 | 757424.923 | 3638373.226 | 0.99996 | 0.0002 | 0.81 | -42.5 | -45.7 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_D02 | ln216b3gEast25 |
| 515 | 757609.214 | 3638437.442 | 1 | 0.0002 | 0.74 | 70 | 7 | C/O | 155mm_M483A1_F04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln274inv1 |
| 516 | 757583.298 | 3638277.914 | 0.99929 | 0.0002 | 0.14 | 71.3 | -49.5 | C/O | 20mm_M55_L15 | M42_K03 | 37mm_H09 | ln113inv14 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 517 | 757447.818 | 3638277.638 | 1 | 0.0002 | 0.3 | 104.7 | -11.1 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_F01 | ln118_0819 |
| 518 | 757566.801 | 3638491.051 | 1 | 0.0002 | 0.2 | 102.3 | 16.8 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln330inv7 |
| 519 | 757418.864 | 3638367.512 | 1 | 0.0002 | 0.21 | 149.7 | -2 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | M75_F01 | ln210inv10 |
| 520 | 757528.172 | 3638170.3 | 1 | 0.0002 | 0.11 | -24.6 | -1.9 | C/O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln21inv45 |
| 521 | 757554.025 | 3638344.816 | 1 | 0.0002 | 0 | -50.5 | -10.5 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 81mm_M374_pit | ln181inv4 |
| 522 | 757530.604 | 3638334.709 | 1 | 0.0002 | 0.29 | 102.2 | 24.6 | C/O | 105mm_M456_Heat_B06 | 81mm_M374_F02 | 105mm_M60_L05 | ln172inv5 |
| 523 | 757432.793 | 3638481.84 | 1 | 0.0002 | 0.17 | -21.6 | -2.7 | C/O | 81mm_M374_B02 | 2.75in_M230_M10 | 105mm_M60_L05 | ln325inv7 |
| 524 | 757591.018 | 3638409.853 | 1 | 0.0002 | 0.29 | 134.3 | 24.9 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_H04 | 105mm_M60_J05 | ln246inv10 |
| 525 | 757425.579 | 3638387.775 | 1 | 0.0002 | 0.07 | 59 | -63.5 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln231inv7 |
| 526 | 757593.733 | 3638413.091 | 1 | 0.0002 | 0.38 | 7.2 | -74.8 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln250inv13 |
| 527 | 757561.412 | 3638238.073 | 1 | 0.0002 | 0.21 | 8.1 | 10.7 | C/O | 105mm_M60_D05 | 105mm_M456_Heat_D06 | 155mm_M483A1_L04 | ln92inv10 |
| 528 | 757420.76 | 3638324.668 | 1 | 0.0002 | 0.23 | -116.2 | 12.4 | C/O | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | 105mm_M60_J05 | ln167inv12 |
| 529 | 757547.328 | 3638428.678 | 1 | 0.0002 | 0.03 | 143.8 | 16.1 | C/O | M75_D01 | BLU-26_M13 | 57mm_M86_L12 | ln268inv11 |
| 530 | 757550.869 | 3638227.127 | 1 | 0.0002 | 0.42 | 80.1 | -57.3 | C/O | 2.75in_M230_K10 | 81mm_M374_C02 | 57mm_M86_L12 | ln81inv13 |
| 531 | 757437.327 | 3638193.001 | 1 | 0.0002 | 0.18 | 98.5 | -84 | C/O | 40mm_MKII_E03 | BDU-28_I02 | MK118_Rockeye_M01 | ln47inv1 |
| 532 | 757542.443 | 3638394.007 | 1 | 0.0003 | 0.16 | -101.3 | 3.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln233inv33 |
| 533 | 757620.063 | 3638445.325 | 0.99515 | 0.0003 | 0.25 | -74.4 | -65.7 | C/O | BLU-26_K13 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln281inv36 |
| 534 | 757476.688 | 3638351.167 | 1 | 0.0003 | 0.02 | 57.4 | -74.4 | C/O | 40mm_MKII_B03 | 57mm_M86_L12 | M75_C01 | ln191inv5 |
| 535 | 757426.395 | 3638247.137 | 1 | 0.0003 | 0.22 | 91.2 | -7.4 | C/O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_K10 | ln101inv20 |
| 536 | 757465.298 | 3638220.498 | 1 | 0.0003 | 0.13 | 133.5 | 0.6 | C/O | 81mm_M374_pit | 105mm_M456_Heat_J06 | 105mm_M60_J05 | ln074inv118 |
| 537 | 757572.707 | 3638365.157 | 1 | 0.0003 | 0 | 121.6 | 17.3 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 81mm_M374_pit | ln202_0382 |
| 538 | 757491.81 | 3638170.467 | 1 | 0.0003 | 0.19 | -164.7 | 0 | C/O | 40mm_MKII_E03 | M42_K03 | BDU-28_I02 | ln22inv53 |
| 539 | 757442.783 | 3638317.168 | 1 | 0.0003 | 0.39 | 0.2 | -61.3 | C/O | 2.75in_M230_K10 | 81mm_M374_E02 | 60mm_M49A3_M11 | ln158inv22 |
| 540 | 757611.658 | 3638390.018 | 1 | 0.0003 | 0.15 | 137.7 | 0.7 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 105mm_M60_L05 | ln226inv2 |
| 541 | 757599.806 | 3638423.57 | 1 | 0.0003 | 0.13 | 80 | 5.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln260inv15 |
| 542 | 757460.154 | 3638216.478 | 1 | 0.0003 | 0.19 | -16.4 | -75.1 | C/O | 2.75in_M230_K10 | 57mm_M86_J12 | 81mm_M374_E02 | ln070inv50 |
| 543 | 757436.315 | 3638381.203 | 1 | 0.0003 | 0.69 | 130.1 | -7.4 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln224inv22 |
| 544 | 757429.985 | 3638474.737 | 1 | 0.0003 | 0.18 | -121.9 | -11.2 | C/O | 81mm_M374_E02 | 2.75in_M230_K10 | 60mm_M49A3_M11 | ln319inv5 |
| 545 | 757599.496 | 3638358.649 | 1 | 0.0003 | 0.1 | 49.9 | 8.1 | C/O | BLU-26_L13 | M42_M03 | MK118_Rockeye_I01 | ln194_0154 |
| 546 | 757595.376 | 3638478.696 | 1 | 0.0003 | 0.14 | -3.1 | 15.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln317inv38 |
| 547 | 757451.056 | 3638175.755 | 1 | 0.0003 | 0.28 | 124.5 | -4.9 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln28inv2 |
| 548 | 757563.085 | 3638506.803 | 1 | 0.0003 | 0.26 | 147.3 | -74.4 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln3466 |
| 549 | 757478.094 | 3638489.365 | 0.93744 | 0.0003 | 0 | -75.6 | -13.1 | C/O | 40mm_M385_J14 | 20mm_M55_I15 | M42_K03 | ln331_0389 |
| 550 | 757507.807 | 3638166.076 | 1 | 0.0003 | 0.11 | 24.9 | 2.1 | C/O | BDU-28_M02 | 37mm_H09 | M42_I03 | ln17inv20 |
| 551 | 757576.294 | 3638414.932 | 1 | 0.0003 | 0.25 | -128.4 | -75.8 | C/O | 2.75in_M230_H10 | 105mm_M60_B05 | 105mm_M456_Heat_pit | ln253_0990 |
| 552 | 757592.902 | 3638294.343 | 0.99656 | 0.0004 | 0.34 | 21.5 | 2.3 | C/O | M75_E01 | BLU-26_M13 | 40mm_MKII_B03 | ln129_0950 |
| 553 | 757608.371 | 3638316.86 | 1 | 0.0004 | 0.03 | 24.1 | -11.6 | C/O | 2.75in_M230_M10 | 81mm_M374_C02 | 60mm_M49A3_M11 | ln151inv28 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 554 | 757488.189 | 3638499.132 | 1 | 0.0004 | 0.1 | -84.5 | 2.2 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_M11 | ln341inv33 |
| 555 | 757477.761 | 3638328.585 | 1 | 0.0004 | 0.24 | -141.1 | -86.7 | C/O | 81mm_M374_F02 | 155mm_M483A1_L04 | 105mm_M60_L05 | ln168inv15 |
| 556 | 757418.44 | 3638205.781 | 1 | 0.0004 | 0.03 | 170.2 | -86 | C/O | 57mm_M86_L12 | M75_B01 | 40mm_MKII_E03 | ln60_1318 |
| 557 | 757422.354 | 3638293.833 | 1 | 0.0004 | 0 | 83.1 | -2.9 | C/O | M42_K03 | 40mm_MKII_E03 | 57mm_M86_L12 | ln136inv23 |
| 558 | 757426.76 | 3638417.878 | 1 | 0.0004 | 0.25 | 25.6 | -0.8 | C/O | 81mm_M374_A02 | 105mm_M60_B05 | 105mm_M456_Heat_D06 | ln261inv4 |
| 559 | 757522.993 | 3638227.605 | 1 | 0.0004 | 0.44 | -31.4 | -83.7 | C/O | 155mm_M483A1_L04 | 105mm_M60_L05 | 81mm_M374_A02 | ln81inv8 |
| 560 | 757580.443 | 3638373.717 | 1 | 0.0004 | 0.39 | 22.1 | 7.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln211inv20 |
| 561 | 757499.966 | 3638275.234 | 1 | 0.0004 | 0.19 | -98.2 | -17.1 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln113_0431 |
| 562 | 757612.05 | 3638458.999 | 1 | 0.0004 | 0.13 | -155 | -7.2 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln296inv2 |
| 563 | 757594.856 | 3638358.936 | 1 | 0.0004 | 0.21 | 159.3 | 18.7 | C/O | 105mm_M60_H05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln195_0973 |
| 564 | 757482.399 | 3638293.838 | 1 | 0.0004 | 0.04 | -175.8 | -64.5 | C/O | M75_B01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln133inv18 |
| 565 | 757568.213 | 3638422.35 | 1 | 0.0004 | 0.06 | 166.3 | -0.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln260inv25 |
| 566 | 757601.365 | 3638452.233 | 1 | 0.0004 | 0.42 | 27.9 | -3.4 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln289inv14 |
| 567 | 757604.912 | 3638471.268 | 1 | 0.0004 | 0.12 | -122.1 | -39.4 | C/O | 57mm_M86_J12 | 2.75in_M230_K10 | 60mm_M49A3_M11 | ln309inv20 |
| 568 | 757438.148 | 3638482.095 | 1 | 0.0004 | 0.11 | -128.1 | -3.2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_F01 | ln325_0152 |
| 569 | 757518.051 | 3638456.966 | 1 | 0.0005 | 0.29 | 100.9 | 2.2 | C/O | 105mm_M60_J05 | 155mm_M483A1_H04 | 105mm_M456_Heat_J06 | ln29811 |
| 570 | 757479.132 | 3638344.227 | 0.99363 | 0.0005 | 0.22 | 88.2 | 3.1 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_H09 | ln184inv7 |
| 571 | 757430.156 | 3638443.006 | 1 | 0.0005 | 0.28 | -138.9 | 30.2 | C/O | 81mm_M374_C02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln286inv33 |
| 572 | 757605.432 | 3638380.671 | 1 | 0.0005 | 0.14 | -25.3 | -56.8 | C/O | 57mm_M86_L12 | BLU-26_K13 | 60mm_M49A3_K11 | ln217inv35 |
| 573 | 757416.446 | 3638500.631 | 1 | 0.0005 | 0.21 | -41.1 | -68.3 | C/O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_K10 | ln345invcont1 |
| 574 | 757472.359 | 3638185.844 | 1 | 0.0005 | 0.17 | 62.7 | -82.6 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln39inv21 |
| 575 | 757453.762 | 3638367.121 | 1 | 0.0005 | 0 | -170.9 | 1.8 | C/O | 60mm_M49A3_F10 | 57mm_M86_L12 | 81mm_M374_E02 | ln208inv37 |
| 576 | 757541.517 | 3638370.799 | 1 | 0.0005 | 0.14 | 31.1 | -67.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln209inv15 |
| 577 | 757601.355 | 3638481.509 | 1 | 0.0005 | 0.42 | 46.5 | 29.1 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_H04 | 105mm_M60_J05 | ln320_0087 |
| 578 | 757540.264 | 3638458.236 | 1 | 0.0005 | 0.29 | 63.7 | -82.8 | C/O | 57mm_M86_K12 | BLU-26_J13 | 2.75in_M230_pit | ln299inv13 |
| 579 | 757433.747 | 3638474.689 | 1 | 0.0005 | 0.46 | -29.1 | -27.6 | C/O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln319inv8 |
| 580 | 757431.714 | 3638413.318 | 1 | 0.0005 | 0.57 | 49.1 | -29.3 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln256invinv28 |
| 581 | 757450.28 | 3638359.469 | 1 | 0.0006 | 0.38 | -32.7 | -23.5 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln201inv7 |
| 582 | 757474.898 | 3638192.306 | 1 | 0.0006 | 0.15 | 39.8 | -0.1 | C/O | 57mm_M86_L12 | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln45inv30 |
| 583 | 757571.468 | 3638498.296 | 1 | 0.0006 | 0.38 | -121.8 | -0.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln337inv34 |
| 584 | 757526.835 | 3638185.991 | 1 | 0.0006 | 0.15 | 147.8 | -2.5 | C/O | 40mm_MKII_E03 | 57mm_M86_L12 | M75_B01 | ln38inv11 |
| 585 | 757446.351 | 3638397.007 | 1 | 0.0006 | 0.31 | -97.7 | -65.8 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln239_0292 |
| 586 | 757589.296 | 3638410.541 | 1 | 0.0006 | 0 | 34.4 | -75.2 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | MK118_Rockeye_H01 | ln247_1431 |
| 587 | 757628.074 | 3638346.612 | 0.89075 | 0.0006 | 1.41 | -32.4 | -75.5 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_F06 | 105mm_M60_L05 | ln180_0012 |
| 588 | 757590.015 | 3638359.661 | 1 | 0.0006 | 0.1 | 107.1 | 11.4 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_H10 | ln196inv4 |
| 589 | 757571.063 | 3638419.157 | 1 | 0.0006 | 0.66 | 74.8 | -61.7 | C/O | 81mm_M374_A02 | 105mm_M60_B05 | 105mm_M456_Heat_pit | ln257inv16 |
| 590 | 757437.151 | 3638288.971 | 1 | 0.0006 | 0.15 | 52.2 | -83.7 | C/O | M75_B01 | 60mm_M49A3_K11 | 57mm_M86_L12 | ln130_0948 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 591 | 757454.99 | 3638292.055 | 1 | 0.0006 | 0.04 | 114.3 | -8.6 | C/O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 57mm_M86_L12 | In132inv15 |
| 592 | 757453.174 | 3638180.572 | 1 | 0.0007 | 0.32 | 12.4 | 1.6 | C/O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_L12 | In33inv53 |
| 593 | 757454.181 | 3638277.242 | 1 | 0.0007 | 0.15 | -94.5 | -84.1 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | In117inv6 |
| 594 | 757585.646 | 3638344.664 | 1 | 0.0007 | 0.08 | 45.7 | -2.1 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 155mm_M483A1_L04 | In180inv7 |
| 595 | 757541.937 | 3638410.982 | 1 | 0.0007 | 0.08 | 57.1 | 5.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 40mm_MKII_A03 | In250inv17 |
| 596 | 757534.007 | 3638246.375 | 1 | 0.0007 | 0.14 | 117 | -83.2 | C/O | 57mm_M86_L12 | BDU-28_I02 | 40mm_MKII_E03 | In100inv15 |
| 597 | 757477.124 | 3638269.208 | 1 | 0.0007 | 0.16 | 141.1 | 9.2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | In108_0574 |
| 598 | 757515.634 | 3638468.22 | 0.96276 | 0.0007 | 0.03 | -23.3 | 6.3 | C/O | 20mm_M55_I15 | 40mm_M385_J14 | 57mm_M86_L12 | In309inv11 |
| 599 | 757589.206 | 3638310.584 | 1 | 0.0007 | 0.13 | 34 | -8.3 | C/O | 105mm_M60_D05 | 105mm_M456_Heat_pit | 155mm_M483A1_F04 | In145_0915 |
| 600 | 757505.051 | 3638241.612 | 1 | 0.0008 | 0.18 | -49.9 | 5.9 | C/O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_L12 | In95inv12 |
| 601 | 757461.983 | 3638304.925 | 1 | 0.0008 | 0 | -0.8 | -8.5 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | In145inv7 |
| 602 | 757627.979 | 3638361.769 | 1 | 0.0008 | 1.33 | -36.1 | -78 | C/O | 155mm_M483A1_B04 | 105mm_M456_Heat_F06 | 81mm_M374_F02 | In196_0006 |
| 603 | 757495.915 | 3638258.197 | 1 | 0.0009 | 0.1 | -52.2 | 4.4 | C/O | M42_L03 | BLU-26_M13 | 37mm_H09 | In112_0604 |
| 604 | 757465.635 | 3638478.417 | 1 | 0.0009 | 0.22 | -27.4 | 3.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | In321inv5 |
| 605 | 757442.599 | 3638320.466 | 1 | 0.0009 | 0.1 | -97.1 | -1.7 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 2.75in_M230_K10 | In161inv17 |
| 606 | 757438.801 | 3638279.122 | 1 | 0.0009 | 0.32 | 56 | -20.2 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_L04 | In120inv15 |
| 607 | 757591.297 | 3638395.308 | 1 | 0.0009 | 0.58 | 90.1 | -30.4 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_F02 | In232inv10 |
| 608 | 757449.257 | 3638409.762 | 1 | 0.001 | 0.05 | -163.7 | 2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | In252inv21 |
| 609 | 757599.15 | 3638411.375 | 1 | 0.0011 | 0.34 | 92.2 | 5.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | In248inv3 |
| 610 | 757441.972 | 3638326.419 | 1 | 0.0011 | 0.06 | 42.9 | -10.1 | C/O | BLU-26_H13 | M75_A01 | 57mm_M86_L12 | In167inv21 |
| 611 | 757502.626 | 3638164.531 | 1 | 0.0011 | 0.17 | -170.5 | -6.7 | C/O | 57mm_M86_L12 | M42_K03 | BDU-28_I02 | In16inv4 |
| 612 | 757447.82 | 3638362.751 | 1 | 0.0012 | 0.12 | 87.4 | -3 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | In204inv15 |
| 613 | 757448.672 | 3638461.789 | 0.99998 | 0.0012 | 0 | 45.4 | -45.9 | C/O | 40mm_M385_J14 | BLU-26_K13 | 57mm_M86_L12 | In305_0291 |
| 614 | 757619.477 | 3638452.58 | 1 | 0.0012 | 0 | -31.2 | -2.2 | C/O | 2.75in_M230_M10 | 60mm_M49A3_F10 | 81mm_M374_E02 | In289_1113 |
| 615 | 757462.526 | 3638361.649 | 1 | 0.0012 | 0.08 | 64.3 | -80.6 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | In203inv10 |
| 616 | 757476.118 | 3638286.949 | 1 | 0.0012 | 0.1 | -150.7 | -2.2 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 81mm_M374_D02 | In126inv16 |
| 617 | 757582.619 | 3638297.696 | 1 | 0.0012 | 0.13 | -101.2 | 25.9 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | In133inv25 |
| 618 | 757436.164 | 3638314.605 | 1 | 0.0012 | 0.17 | 160.9 | 8.2 | C/O | 2.75in_M230_M10 | 81mm_M374_B02 | 105mm_M60_L05 | In156inv21 |
| 619 | 757463.722 | 3638281.364 | 1 | 0.0013 | 0.09 | -107.4 | -1.3 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | In121inv5 |
| 620 | 757554.775 | 3638414.938 | 1 | 0.0014 | 0 | 2.6 | -74.3 | C/O | M75_B01 | 57mm_M86_L12 | 60mm_M49A3_K11 | In254_0434 |
| 621 | 757590.508 | 3638372.316 | 1 | 0.0014 | 0.27 | -101.3 | 0.2 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | In209inv2 |
| 622 | 757428.369 | 3638189.728 | 1 | 0.0014 | 0.14 | 109.9 | -82.8 | C/O | 37mm_H09 | BDU-28_M02 | 40mm_MKII_pit | In43inv74 |
| 623 | 757610.977 | 3638315.519 | 1 | 0.0014 | 0 | 4.5 | 85.1 | C/O | 20mm_M55_I15 | M42_K03 | 40mm_M385_I14 | In150_0091 |
| 624 | 757434.176 | 3638190.374 | 1 | 0.0014 | 0.33 | -43.3 | -74 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | In44inv14 |
| 625 | 757592.947 | 3638449.769 | 1 | 0.0014 | 0.34 | -119.6 | -56.3 | C/O | 81mm_M374_C02 | 105mm_M60_L05 | 105mm_M456_Heat_J06 | In287inv19 |
| 626 | 757436.228 | 3638307.91 | 1 | 0.0014 | 0.62 | -111.5 | -62.7 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | In149inv9 |
| 627 | 757441.797 | 3638285.844 | 1 | 0.0014 | 0.14 | -66.8 | -0.6 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | M75_B01 | In127inv8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 628 | 757534.447 | 3638262.537 | 1 | 0.0015 | 0.1 | 132.3 | -73.4 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 37mm_H09 | ln117inv14 |
| 629 | 757587.993 | 3638443.873 | 1 | 0.0015 | 0.17 | 39.9 | 5.3 | C/O | 105mm_M60_J05 | 155mm_M483A1_L04 | 105mm_M456_Heat_pit | ln281inv31 |
| 630 | 757556.316 | 3638263.594 | 0.38582 | 0.0016 | 0.81 | -94.5 | -67.1 | B | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln118_1098 |
| 631 | 757606.636 | 3638376.075 | 1 | 0.0016 | 0.47 | 109 | -65.1 | C/O | 57mm_M86_J12 | 60mm_M49A3_L11 | M75_F01 | ln212inv3 |
| 632 | 757592.153 | 3638352.953 | 1 | 0.0016 | 0.44 | -76.1 | -12.6 | C/O | 2.75in_M230_M10 | 57mm_M86_J12 | 81mm_M374_C02 | ln189inv17 |
| 633 | 757607.375 | 3638481.587 | 0.74274 | 0.0017 | 0.2 | -86.9 | -37.5 | C/O | M75_B01 | M42_I03 | 57mm_M86_L12 | ln319inv21 |
| 634 | 757467.062 | 3638327.092 | 1 | 0.0018 | 0.43 | 20.1 | 14.3 | C/O | 37mm_L09 | MK118_Rockeye_L01 | 40mm_MKII_E03 | ln167_0465 |
| 635 | 757430.951 | 3638173.783 | 1 | 0.0018 | 0.18 | -118.3 | -48.7 | C/O | 57mm_M86_L12 | BDU-28_I02 | 40mm_MKII_E03 | ln27inv43 |
| 636 | 757484.251 | 3638350.659 | 1 | 0.0018 | 0 | 86.2 | -1.9 | C/O | 60mm_M49A3_K11 | 2.75in_M230_H10 | 81mm_M374_pit | ln190inv14 |
| 637 | 757602.27 | 3638444.627 | 1 | 0.0018 | 0.13 | 158.4 | 3.1 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | M75_F01 | ln282inv5 |
| 638 | 757564.507 | 3638223.122 | 0.54556 | 0.0019 | 0.05 | 84.3 | -6.3 | C/O | M42_I03 | 20mm_M55_M15 | MK118_Rockeye_M01 | ln76inv9 |
| 639 | 757439.386 | 3638332.64 | 1 | 0.0019 | 0.62 | 172.8 | -61.2 | C/O | 105mm_M60_J05 | 155mm_M483A1_H04 | 105mm_M456_Heat_J06 | ln174inv5 |
| 640 | 757486.511 | 3638293.993 | 1 | 0.0019 | 0.64 | -156.6 | -46 | C/O | 81mm_M374_pit | 105mm_M456_Heat_pit | 105mm_M60_J05 | ln133inv21 |
| 641 | 757461.49 | 3638266.826 | 1 | 0.0019 | 0 | 34.7 | -6.1 | C/O | 2.75in_M230_M10 | 81mm_M374_E02 | 60mm_M49A3_F10 | ln107_0226 |
| 642 | 757588.393 | 3638390.412 | 1 | 0.002 | 0.12 | 38.7 | 27.3 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln227in40 |
| 643 | 757539.6 | 3638191.771 | 1 | 0.002 | 0.08 | -162.8 | 3.2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 40mm_MKII_E03 | ln44inv2 |
| 644 | 757454.375 | 3638358.278 | 1 | 0.002 | 0.26 | -107.7 | -80.6 | C/O | 57mm_M86_J12 | 2.75in_M230_K10 | 81mm_M374_C02 | ln199inv14 |
| 645 | 757580.027 | 3638413.831 | 1 | 0.0021 | 0.08 | -90.2 | -36.6 | C/O | 81mm_M374_F02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln251inv10 |
| 646 | 757549.79 | 3638236.559 | 1 | 0.0021 | 0.43 | 103.3 | 8.1 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln90inv6 |
| 647 | 757493.208 | 3638378.325 | 1 | 0.0022 | 0.1 | 29.5 | -0.6 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln219inv19 |
| 648 | 757481.254 | 3638180.07 | 1 | 0.0022 | 0.19 | 73.8 | -14.4 | C/O | 81mm_M374_A02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln32inv30 |
| 649 | 757421.211 | 3638276.508 | 1 | 0.0023 | 0.16 | 110.3 | 1.4 | C/O | 60mm_M49A3_M11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln118_0993 |
| 650 | 757579.532 | 3638319.326 | 1 | 0.0024 | 0.05 | 167.5 | 1.5 | C/O | 37mm_H09 | 57mm_M86_L12 | 40mm_MKII_E03 | ln154_0426 |
| 651 | 757626.79 | 3638338.8 | 0.99898 | 0.0024 | 0 | 114.9 | 4 | C/O | 20mm_M55_I15 | 40mm_M385_J14 | M42_K03 | ln172_0021 |
| 652 | 757530.06 | 3638172.3 | 1 | 0.0026 | 0.21 | 18.3 | -80.9 | C/O | M42_K03 | 57mm_M86_L12 | M75_B01 | ln23inv9 |
| 653 | 757548.182 | 3638244.127 | 1 | 0.0027 | 0.5 | 129.5 | -72.2 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M456_Heat_B06 | ln98inv11 |
| 654 | 757593.943 | 3638334.958 | 1 | 0.0028 | 0.17 | 164.3 | 1.8 | C/O | 81mm_M374_A02 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln170inv18 |
| 655 | 757587.297 | 3638362.959 | 1 | 0.0029 | 0.16 | 33.6 | -68.1 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 81mm_M374_pit | ln199inv19 |
| 656 | 757428.281 | 3638262.829 | 1 | 0.0029 | 0.62 | -16.4 | -44.3 | C/O | 105mm_M60_L05 | 81mm_M374_pit | 105mm_M456_Heat_B06 | ln304inv4 |
| 657 | 757476.43 | 3638290.121 | 1 | 0.0029 | 0.06 | -117.7 | 1.8 | C/O | 105mm_M456_Heat_pit | 105mm_M60_F05 | 155mm_M483A1_L04 | ln129inv3 |
| 658 | 757421.021 | 3638320.824 | 1 | 0.0031 | 0.01 | -148.8 | 0.8 | C/O | 2.75in_M230_M10 | 60mm_M49A3_pit | 81mm_M374_E02 | ln162inv25 |
| 659 | 757460.857 | 3638180.093 | 1 | 0.0032 | 0.15 | 114.7 | 3.1 | C/O | BDU-28_I02 | MK118_Rockeye_M01 | M42_pit | ln32inv37 |
| 660 | 757457.036 | 3638229.245 | 1 | 0.0033 | 0.23 | 14 | -77.4 | C/O | 155mm_M483A1_B04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln83inv32 |
| 661 | 757513.513 | 3638502.704 | 1 | 0.0035 | 0.26 | -68.3 | -79.6 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln344inv10 |
| 662 | 757535.954 | 3638468.971 | 1 | 0.0036 | 0.05 | -5.3 | -86.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln310inv6 |
| 663 | 757593.87 | 3638463.568 | 1 | 0.0036 | 0.08 | 73.6 | 5.4 | C/O | 2.75in_M230_K10 | 60mm_M49A3_pit | 81mm_M374_pit | ln3022 |
| 664 | 757428.721 | 3638421.751 | 1 | 0.0037 | 0.08 | 168.1 | 1.4 | C/O | 60mm_M49A3_F10 | 2.75in_M230_M10 | 81mm_M374_pit | ln264inv10 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 665 | 757450.323 | 3638317.253 | 1 | 0.0038 | 0.22 | -65.3 | -84.6 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln158inv20 |
| 666 | 757630.926 | 3638367.718 | 0.99429 | 0.0038 | 0.02 | 113.6 | -16.7 | C/O | M42_K03 | 40mm_M385_pit | 20mm_M55_I15 | ln202_0009 |
| 667 | 757536.331 | 3638480.837 | 1 | 0.0039 | 0.38 | 8.1 | -15.6 | C/O | 81mm_M374_B02 | 105mm_M456_Heat_D06 | 105mm_M60_B05 | ln321inv17 |
| 668 | 757459.173 | 3638291.826 | 1 | 0.0039 | 0.11 | 89.4 | -1.5 | C/O | 81mm_M374_E02 | 2.75in_M230_M10 | 60mm_M49A3_F10 | ln132_0878 |
| 669 | 757434.315 | 3638393.404 | 1 | 0.0039 | 0.24 | -11.4 | -69.4 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln236inv21 |
| 670 | 757547.112 | 3638488.326 | 1 | 0.004 | 0.25 | 59.6 | -64 | C/O | M75_D01 | BLU-26_K13 | 57mm_M86_L12 | line329inv32 |
| 671 | 757423.201 | 3638386.944 | 1 | 0.0041 | 0.14 | -7.8 | -84.6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln230inv31 |
| 672 | 757576.049 | 3638324.12 | 0.99976 | 0.0042 | 0.05 | 154.2 | 25.2 | C/O | 20mm_M55_J15 | M42_I03 | 37mm_H09 | ln160inv4 |
| 673 | 757614.204 | 3638360.727 | 1 | 0.0042 | 0.18 | 125.5 | -9.5 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln196inv1 |
| 674 | 757497.373 | 3638223.702 | 1 | 0.0044 | 0.19 | 165.7 | -65.1 | C/O | 40mm_MKII_E03 | BDU-28_I02 | 57mm_M86_L12 | ln76inv14 |
| 675 | 757551.796 | 3638366.995 | 1 | 0.0046 | 0.83 | -18.3 | 32.9 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_J04 | 105mm_M60_L05 | ln205inv29 |
| 676 | 757611.963 | 3638431.223 | 1 | 0.0047 | 0.62 | 147.6 | -63.7 | C/O | 105mm_M456_Heat_pit | 155mm_M483A1_L04 | 105mm_M60_J05 | ln267inv20 |
| 677 | 757496.472 | 3638234.013 | 1 | 0.0054 | 0.27 | -43.2 | 5.5 | C/O | 2.75in_M230_K10 | 60mm_M49A3_M11 | 81mm_M374_pit | ln87inv6 |
| 678 | 757546.005 | 3638400.47 | 1 | 0.0054 | 0.37 | -7.8 | -14.9 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln239inv19 |
| 679 | 757590.322 | 3638385.974 | 1 | 0.0055 | 0.53 | 165.5 | -37.7 | C/O | 81mm_M374_A02 | 105mm_M456_Heat_pit | 105mm_M60_H05 | ln222inv1 |
| 680 | 757400.564 | 3638476.937 | 1 | 0.0056 | 0 | 90.2 | -22.7 | C/O | 155mm_M483A1_D04 | 105mm_M456_Heat_H06 | 105mm_M60_D05 | ln345_0193 |
| 681 | 757463.406 | 3638475.331 | 1 | 0.0056 | 0.18 | 127.5 | -6 | C/O | 155mm_M483A1_L04 | 105mm_M60_L05 | 105mm_M456_Heat_pit | ln318inv20 |
| 682 | 757550.194 | 3638428.472 | 1 | 0.0057 | 0 | 43 | -3.5 | C/O | 155mm_M483A1_L04 | 105mm_M60_H05 | 105mm_M456_Heat_H06 | ln267_0889 |
| 683 | 757425.2 | 3638383.339 | 1 | 0.0059 | 0.4 | 123.7 | -63.1 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln226inv38 |
| 684 | 757530.927 | 3638401.621 | 1 | 0.0061 | 0.83 | 102.8 | -55.2 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_J06 | 155mm_M483A1_H04 | ln241inv15 |
| 685 | 757609.713 | 3638378.802 | 1 | 0.0061 | 0.6 | -179.6 | -2.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln214inv3 |
| 686 | 757608.401 | 3638320.024 | 1 | 0.0062 | 0 | 73.3 | -1.3 | C/O | BDU-28_I02 | M42_K03 | 57mm_M86_L12 | ln154inv2 |
| 687 | 757593.615 | 3638364.354 | 1 | 0.0063 | 0 | -173.1 | -24.5 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln200data_inv2 |
| 688 | 757611.231 | 3638439.811 | 1 | 0.0064 | 0.17 | 48.4 | -8.1 | C/O | 2.75in_M230_M10 | 60mm_M49A3_K11 | 81mm_M374_E02 | ln276inv1 |
| 689 | 757613.411 | 3638400.459 | 1 | 0.0065 | 0.33 | -28.2 | -49.6 | C/O | 155mm_M483A1_H04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln237inv30 |
| 690 | 757416.204 | 3638426.72 | 1 | 0.0065 | 0.17 | 114.9 | 30.1 | C/O | 57mm_M86_M12 | M75_E01 | 60mm_M49A3_J11 | ln270l2inv22 |
| 691 | 757493.687 | 3638234.951 | 1 | 0.0065 | 0.17 | 49.2 | -82.1 | C/O | 57mm_M86_L12 | 37mm_H09 | 40mm_MKII_E03 | ln88inv16 |
| 692 | 757528.058 | 3638167.428 | 1 | 0.0067 | 0.14 | 58 | -72.7 | C/O | 40mm_MKII_pit | 37mm_M09 | M75_A01 | ln18inv23 |
| 693 | 757581.632 | 3638419.24 | 1 | 0.0067 | 0.11 | -1.6 | 14.9 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_L06 | 155mm_M483A1_L04 | ln257inv18 |
| 694 | 757583.409 | 3638302.487 | 1 | 0.0068 | 0.08 | 11.6 | 1.8 | C/O | 57mm_M86_L12 | 37mm_I09 | M75_B01 | ln135_1125 |
| 695 | 757561.106 | 3638252.009 | 1 | 0.0069 | 0.12 | 40.3 | -7.6 | C/O | 57mm_M86_L12 | 37mm_H09 | M75_B01 | line106inv13 |
| 696 | 757608.6 | 3638464.668 | 1 | 0.0071 | 0.22 | -94 | -36.5 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln303inv28 |
| 697 | 757440.108 | 3638190.585 | 1 | 0.0073 | 0.18 | -161.3 | 0.7 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | M75_B01 | ln44inv13 |
| 698 | 757596.24 | 3638403.07 | 1 | 0.0074 | 0 | -12.3 | -53.5 | C/O | 155mm_M483A1_H04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln240inv4 |
| 699 | 757539.896 | 3638242.255 | 1 | 0.0076 | 0.05 | 10.5 | -85 | C/O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln96inv21 |
| 700 | 757490.435 | 3638269.913 | 1 | 0.0078 | 0.12 | -155.6 | -81.8 | C/O | 57mm_M86_M12 | 2.75in_M230_M10 | 81mm_M374_C02 | ln108inv7 |
| 701 | 757488.317 | 3638274.806 | 1 | 0.0078 | 0.06 | -66 | -55.6 | C/O | M75_B01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln113inv6 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 702 | 757554.633 | 3638391.847 | 1 | 0.0079 | 0.14 | -169.9 | -28.2 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln230inv15 |
| 703 | 757426.709 | 3638295.765 | 1 | 0.0081 | 0.12 | -36.8 | 3.4 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln135inv10 |
| 704 | 757506.788 | 3638391.099 | 1 | 0.0083 | 0.18 | -118.2 | -7.4 | C/O | 2.75in_M230_K10 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln231inv15 |
| 705 | 757460.892 | 3638310.867 | 1 | 0.0084 | 0.3 | 103.9 | -26.8 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln1501inv50 |
| 706 | 757478.873 | 3638216.761 | 1 | 0.0085 | 0.1 | 152.3 | -5.3 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln070inv45 |
| 707 | 757454.697 | 3638429.854 | 1 | 0.0086 | 0.15 | 158.1 | 0.8 | C/O | 155mm_M483A1_J04 | 105mm_M456_Heat_pit | 105mm_M60_J05 | ln272inv10 |
| 708 | 757452.674 | 3638310.743 | 1 | 0.0086 | 0.03 | -132.5 | -3.1 | C/O | 81mm_M374_C02 | 57mm_M86_J12 | 2.75in_M230_M10 | ln151inv10 |
| 709 | 757429.42 | 3638331.102 | 1 | 0.009 | 0.02 | -55.5 | 3.3 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln173inv9 |
| 710 | 757491.827 | 3638418.795 | 1 | 0.009 | 0 | 60.9 | 5 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln260inv29 |
| 711 | 757578.164 | 3638266.112 | 1 | 0.009 | 0.09 | -43.3 | -7.8 | C/O | 57mm_M86_L12 | 37mm_H09 | 40mm_MKII_F03 | ln103_1817 |
| 712 | 757540.279 | 3638175.987 | 0.37049 | 0.0093 | 0.13 | 65.3 | 34.1 | B | 20mm_M55_J15 | BDU-28_M02 | M42_K03 | ln26_0068 |
| 713 | 757454.27 | 3638331.836 | 1 | 0.0093 | 0.09 | 101.8 | 3.1 | C/O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln172inv17 |
| 714 | 757521.211 | 3638366.999 | 1 | 0.0097 | 0.12 | 136.8 | -6.4 | C/O | MK118_Rockeye_I01 | 60mm_M49A3_F10 | BLU-26_J13 | ln206inv14 |
| 715 | 757627.046 | 3638357.547 | 1 | 0.0101 | 0 | 45.4 | -28.9 | C/O | 81mm_M374_pit | 60mm_M49A3_K11 | 57mm_M86_L12 | ln192_0004 |
| 716 | 757591.692 | 3638301.609 | 1 | 0.0101 | 0.28 | 97 | -28.4 | C/O | BLU-26_I13 | 57mm_M86_L12 | M75_F01 | ln136inv1 |
| 717 | 757599.362 | 3638382.867 | 1 | 0.0101 | 0.17 | -177.2 | -49.5 | C/O | 2.75in_M230_K10 | 81mm_M374_B02 | 105mm_M60_L05 | ln219inv37 |
| 718 | 757435.906 | 3638415.709 | 1 | 0.0101 | 0.05 | 18.1 | -0.9 | C/O | M42_L03 | BLU-26_M13 | M75_A01 | ln259inv8 |
| 719 | 757453.974 | 3638241.066 | 1 | 0.0109 | 0.8 | -125.8 | -65.6 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln95inv10 |
| 720 | 757456.066 | 3638309.148 | 1 | 0.0109 | 0.18 | -3.9 | 1.3 | C/O | 81mm_M374_C02 | 2.75in_M230_K10 | 105mm_M456_Heat_B06 | ln149inv15 |
| 721 | 757590.501 | 3638459.611 | 0.99714 | 0.0111 | 0.5 | -8.8 | -60.9 | C/O | 57mm_M86_J12 | 60mm_M49A3_L11 | 2.75in_M230_M10 | ln297_1665 |
| 722 | 757596.535 | 3638460.133 | 1 | 0.0111 | 0.33 | 40.3 | -78.4 | C/O | 81mm_M374_A02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln299inv16 |
| 723 | 757462.791 | 3638372.935 | 1 | 0.0115 | 0.33 | 141.2 | 6 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln214inv10 |
| 724 | 757586.573 | 3638395.482 | 1 | 0.0116 | 0.19 | -150.4 | -7.6 | C/O | M75_F01 | 57mm_M86_L12 | 2.75in_M230_K10 | ln232inv13 |
| 725 | 757583.324 | 3638280.585 | 1 | 0.0118 | 0.14 | -6.7 | -2.8 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 40mm_MKII_A03 | ln115inv20 |
| 726 | 757559.839 | 3638234.354 | 1 | 0.0125 | 0.52 | 75.1 | -77.9 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_L04 | 105mm_M60_H05 | ln88inv12 |
| 727 | 757430.235 | 3638335.037 | 0.99999 | 0.0126 | 1.3 | 124.4 | -80.7 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln178_1217 |
| 728 | 757535.593 | 3638406.252 | 1 | 0.0127 | 0.02 | 25.2 | -4.6 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 40mm_MKII_A03 | ln245inv13 |
| 729 | 757615.792 | 3638453.713 | 1 | 0.013 | 0.31 | 67.6 | -3.2 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln290_0036 |
| 730 | 757496.854 | 3638262.913 | 1 | 0.013 | 0.09 | -84.6 | -55.8 | C/O | M75_B01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln103_1489 |
| 731 | 757611.165 | 3638499.237 | 1 | 0.0131 | 0.25 | 1.2 | -73.4 | C/O | 81mm_M374_C02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln338inv6 |
| 732 | 757472.064 | 3638275.179 | 1 | 0.0131 | 0.15 | 161 | -51.5 | C/O | M42_L03 | BLU-26_M13 | M75_D01 | ln114inv3 |
| 733 | 757438.81 | 3638382.201 | 1 | 0.0132 | 0.06 | -110.9 | 23 | C/O | M75_F01 | 57mm_M86_L12 | 37mm_L09 | ln225_0180 |
| 734 | 757489.532 | 3638175.787 | 1 | 0.0138 | 0.15 | -37.5 | -0.2 | C/O | MK118_Rockeye_M01 | M42_I03 | BDU-28_M02 | ln27inv46 |
| 735 | 757601.55 | 3638372.24 | 1 | 0.015 | 0.17 | -161.8 | 6.6 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln208inv5 |
| 736 | 757431.875 | 3638309.308 | 1 | 0.0156 | 0.12 | 51.2 | 6.1 | C/O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln1501inv55 |
| 737 | 757598.476 | 3638478.343 | 1 | 0.0157 | 0.38 | 80.1 | -47.7 | C/O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln316_0150 |
| 738 | 757567.392 | 3638354.94 | 1 | 0.016 | 0.07 | 132.6 | -0.6 | C/O | 57mm_M86_M12 | M75_E01 | BDU-28_L02 | ln192inv10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 739 | 757528.444 | 3638244.784 | 1 | 0.016 | 0.13 | 139.9 | 1.4 | C/O | 57mm_M86_L12 | BDU-28_I02 | 40mm_MKII_E03 | ln98_0576 |
| 740 | 757469.509 | 3638359.451 | 1 | 0.0161 | 0.27 | 101.4 | -67.4 | C/O | 155mm_M483A1_H04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln199_0590 |
| 741 | 757480.098 | 3638436.958 | 1 | 0.0164 | 0.04 | 58.7 | -0.5 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln278inv11 |
| 742 | 757608.054 | 3638325.025 | 1 | 0.0165 | 0.44 | 28.7 | 13.1 | C/O | 60mm_M49A3_L11 | 2.75in_M230_K10 | 81mm_M374_C02 | ln159inv24 |
| 743 | 757585.051 | 3638382.089 | 1 | 0.0168 | 0.12 | 21.1 | -24.5 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln219inv31 |
| 744 | 757526.468 | 3638229.228 | 1 | 0.0168 | 0.14 | -20.4 | -88.7 | C/O | 37mm_H09 | BDU-28_I02 | 57mm_M86_L12 | ln83inv35 |
| 745 | 757465.887 | 3638425.091 | 1 | 0.0169 | 0.06 | -126.9 | -2.1 | C/O | 60mm_M49A3_K11 | 2.75in_M230_H10 | 57mm_M86_L12 | ln267inv7 |
| 746 | 757607.008 | 3638497.182 | 1 | 0.017 | 0.11 | -69.8 | 10.3 | C/O | 105mm_M456_Heat_B06 | 81mm_M374_F02 | 105mm_M60_L05 | ln335inv10 |
| 747 | 757452.173 | 3638468.039 | 1 | 0.0171 | 0.52 | -21.7 | -65 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln311inv10 |
| 748 | 757525.946 | 3638446.47 | 1 | 0.0174 | 0.35 | 149.3 | 16.1 | C/O | 155mm_M483A1_B04 | 105mm_M60_D05 | 105mm_M456_Heat_pit | ln286inv14 |
| 749 | 757572.728 | 3638298.113 | 0.99929 | 0.0174 | 0 | -98.4 | -11.4 | C/O | M42_K03 | 20mm_M55_I15 | 40mm_M385_pit | ln133inv22 |
| 750 | 757568.947 | 3638501.93 | 1 | 0.0175 | 0 | 23.1 | -43.7 | C/O | 2.75in_M230_J10 | 81mm_M374_B02 | 105mm_M60_H05 | ln340_0372 |
| 751 | 757536.419 | 3638239.652 | 1 | 0.0177 | 0.71 | -96.7 | 43.2 | C/O | 81mm_M374_A02 | 105mm_M60_B05 | 105mm_M456_Heat_pit | ln93inv9 |
| 752 | 757604.389 | 3638486.287 | 1 | 0.0178 | 0.27 | 153.9 | -7.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln324inv2 |
| 753 | 757479.761 | 3638304.991 | 1 | 0.0178 | 0.04 | 67 | -2 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_L11 | ln144inv22 |
| 754 | 757604.103 | 3638313.346 | 1 | 0.0178 | 0 | 86.2 | -61.9 | C/O | 155mm_M483A1_D04 | 105mm_M60_D05 | 105mm_M456_Heat_J06 | ln148inv9 |
| 755 | 757442.247 | 3638279.335 | 1 | 0.0178 | 0.17 | -167.4 | -87.3 | C/O | 57mm_M86_L12 | M75_D01 | 60mm_M49A3_K11 | ln120inv13 |
| 756 | 757591.109 | 3638268.076 | 1 | 0.018 | 0.15 | -34.6 | 39 | C/O | BLU-26_K13 | M75_pit | 60mm_M49A3_M11 | ln103_0530 |
| 757 | 757615.711 | 3638458.32 | 1 | 0.0181 | 0.06 | -146 | -29.5 | C/O | 81mm_M374_pit | 2.75in_M230_H10 | 155mm_M483A1_L04 | ln294inv4 |
| 758 | 757527.597 | 3638208.221 | 1 | 0.0187 | 0.17 | 89.2 | 26.9 | C/O | BLU-26_H13 | M75_D01 | 57mm_M86_L12 | ln60inv18 |
| 759 | 757504.873 | 3638188.061 | 1 | 0.0189 | 0.09 | 164.5 | -56.1 | C/O | BDU-28_I02 | MK118_Rockeye_M01 | 40mm_MKII_E03 | ln40inv7 |
| 760 | 757440.837 | 3638234.333 | 1 | 0.0191 | 0.14 | 69 | -3.2 | C/O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 57mm_M86_L12 | ln88inv19 |
| 761 | 757605.281 | 3638317.331 | 1 | 0.0191 | 0 | 73.5 | -60.8 | C/O | 155mm_M483A1_D04 | 105mm_M60_D05 | 105mm_M456_Heat_H06 | ln152inv34 |
| 762 | 757598.502 | 3638473.519 | 1 | 0.0195 | 0.14 | 140.1 | -20.6 | C/O | M75_D01 | 57mm_M86_L12 | BLU-26_M13 | ln312inv6 |
| 763 | 757493.047 | 3638418.878 | 1 | 0.0197 | 0.01 | 53 | -0.1 | C/O | 81mm_M374_C02 | 2.75in_M230_L10 | 105mm_M60_L05 | ln260_1046 |
| 764 | 757593.497 | 3638411.182 | 1 | 0.0206 | 0.03 | -169.2 | -82.3 | C/O | 2.75in_M230_J10 | 105mm_M60_L05 | 81mm_M374_B02 | ln247inv10 |
| 765 | 757628.31 | 3638340.912 | 1 | 0.0209 | 0 | 123.7 | 7.5 | C/O | BDU-28_M02 | 37mm_M09 | 40mm_MKII_pit | ln174_0016 |
| 766 | 757626.535 | 3638463.214 | 1 | 0.021 | 0.33 | 145.2 | 1.6 | C/O | 155mm_M483A1_D04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln294bgWW3 |
| 767 | 757623.372 | 3638410.484 | 0.99972 | 0.0216 | 0 | 44.7 | -36.9 | C/O | 40mm_M385_J14 | 20mm_M55_I15 | 57mm_M86_L12 | ln246_0009 |
| 768 | 757561.073 | 3638259.859 | 0.72389 | 0.0218 | 0.07 | -59.4 | -29.1 | C/O | 20mm_M55_I15 | M42_K03 | 40mm_M385_pit | ln114_1089 |
| 769 | 757417.549 | 3638497.436 | 1 | 0.0223 | 0 | -24.8 | 23.3 | C/O | M42_K03 | MK118_Rockeye_M01 | BDU-28_M02 | ln341_0065 |
| 770 | 757558.115 | 3638425.373 | 0.9998 | 0.0225 | 0 | 169.6 | -80.8 | C/O | 81mm_M374_C02 | 2.75in_M230_K10 | 105mm_M456_Heat_B06 | ln263_0982 |
| 771 | 757513.109 | 3638402.415 | 0.99895 | 0.0231 | 0 | 111.6 | -5.6 | C/O | BDU-28_M02 | MK118_Rockeye_J01 | 37mm_M09 | ln242_0800 |
| 772 | 757591.033 | 3638377.677 | 0.99992 | 0.0232 | 0.64 | -92.7 | -76.8 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_J04 | ln215_1082 |
| 773 | 757463.783 | 3638377.782 | 1 | 0.0243 | 0.14 | -66.4 | 7.7 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 60mm_M49A3_M11 | ln219inv16 |
| 774 | 757503.067 | 3638305.925 | 1 | 0.0246 | 0.18 | -167.3 | -0.7 | C/O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_F10 | ln144inv19 |
| 775 | 757530.245 | 3638455.295 | 1 | 0.0249 | 0.01 | 172.3 | 29.3 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_H09 | ln296inv14 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 776 | 757443.339 | 3638323.593 | 1 | 0.0256 | 0 | -159.1 | 3.6 | C/O | 2.75in_M230_K10 | 60mm_M49A3_pit | 81mm_M374_E02 | ln164inv31 |
| 777 | 757532.095 | 3638242.632 | 1 | 0.0256 | 0.27 | -139.5 | -3.7 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln96inv22 |
| 778 | 757572.406 | 3638279.485 | 1 | 0.026 | 0.17 | -23.7 | 2.4 | C/O | 60mm_M49A3_pit | 2.75in_M230_K10 | 57mm_M86_J12 | ln115inv17 |
| 779 | 757614.51 | 3638406.451 | 1 | 0.026 | 0.11 | 24 | -79.7 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_H10 | ln243inv27 |
| 780 | 757528.752 | 3638454.772 | 1 | 0.0262 | 0.01 | 166.4 | 43 | C/O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln296inv18 |
| 781 | 757468.391 | 3638287.541 | 1 | 0.0265 | 0.13 | -102.2 | 4.2 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 40mm_MKII_A03 | ln127inv11 |
| 782 | 757614.214 | 3638435.546 | 1 | 0.0266 | 0.23 | -3.8 | -76.3 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_F06 | 81mm_M374_A02 | ln271inv18 |
| 783 | 757546.975 | 3638485.658 | 1 | 0.0275 | 0 | 162.7 | -31 | C/O | 155mm_M483A1_H04 | 2.75in_M230_J10 | 105mm_M60_F05 | ln324_0599 |
| 784 | 757580.47 | 3638401.993 | 1 | 0.0276 | 0.28 | 20 | 38.3 | C/O | 105mm_M456_Heat_B06 | 81mm_M374_F02 | 105mm_M60_L05 | ln239inv21 |
| 785 | 757533.668 | 3638185.888 | 1 | 0.0276 | 0.29 | 116.5 | 1.4 | C/O | 60mm_M49A3_L11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln38inv5 |
| 786 | 757451.632 | 3638439.75 | 1 | 0.0276 | 0.19 | 175.5 | -82 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln282inv33 |
| 787 | 757602.735 | 3638367.415 | 1 | 0.0283 | 0.18 | 33.7 | 5.1 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 60mm_M49A3_M11 | ln203inv29 |
| 788 | 757605.449 | 3638389.521 | 1 | 0.0284 | 0.09 | 53.3 | 21.6 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_M11 | ln226inv4 |
| 789 | 757426.466 | 3638326.274 | 1 | 0.0286 | 0.19 | 135.2 | 0.1 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln168inv31 |
| 790 | 757603.881 | 3638367.557 | 1 | 0.029 | 0.17 | -156.8 | 5.6 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_M11 | ln204_0168 |
| 791 | 757466.361 | 3638371.584 | 1 | 0.0293 | 0.24 | -12.4 | 0.2 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_F06 | 81mm_M374_A02 | ln213inv12 |
| 792 | 757572.072 | 3638437.038 | 1 | 0.0296 | 0.22 | 104.3 | -59.1 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 81mm_M374_F02 | ln275inv6 |
| 793 | 757604.25 | 3638309.125 | 1 | 0.0296 | 0 | -168.8 | -24.3 | C/O | 155mm_M483A1_D04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln144inv5 |
| 794 | 757608.19 | 3638359.853 | 1 | 0.0301 | 0.2 | 35.6 | 20.3 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_M11 | ln195inv22 |
| 795 | 757604.568 | 3638315.366 | 1 | 0.0302 | 0 | 97.5 | 21.8 | C/O | 155mm_M483A1_D04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln1501inv35 |
| 796 | 757538.298 | 3638498.456 | 1 | 0.0304 | 0.33 | 72.1 | 0 | C/O | 57mm_M86_L12 | 2.75in_M230_M10 | 60mm_M49A3_M11 | ln338inv22 |
| 797 | 757436.12 | 3638324.074 | 1 | 0.0308 | 0.26 | -24.4 | 1.6 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln165inv7 |
| 798 | 757466.055 | 3638203.192 | 1 | 0.0308 | 0.68 | -134.2 | -54.6 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln56inv22 |
| 799 | 757564.786 | 3638449.968 | 1 | 0.0308 | 0.23 | 145.5 | -73.5 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 40mm_MKII_A03 | ln288inv2 |
| 800 | 757581.927 | 3638302.346 | 1 | 0.031 | 0.07 | 4.3 | 5.1 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_I09 | ln135_1106 |
| 801 | 757462.49 | 3638388.285 | 1 | 0.031 | 0.03 | 67.5 | -1.2 | C/O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln230inv25 |
| 802 | 757418.297 | 3638340.641 | 0.99994 | 0.0311 | 0 | -26.4 | 3.5 | C/O | 40mm_MKII_E03 | MK118_Rockeye_M01 | BDU-28_I02 | ln183_0070 |
| 803 | 757431.865 | 3638287.45 | 1 | 0.0312 | 0.01 | -7.2 | 4.5 | C/O | M75_B01 | 57mm_M86_L12 | 37mm_H09 | ln129inv2 |
| 804 | 757487.827 | 3638417.625 | 1 | 0.0322 | 0.15 | -18.3 | -80.4 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_M11 | ln259inv11 |
| 805 | 757530.778 | 3638183.525 | 1 | 0.0323 | 0.17 | -136.9 | -6.3 | C/O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_pit | ln34inv2 |
| 806 | 757486.576 | 3638287.385 | 1 | 0.0325 | 0.47 | 68.4 | -59.3 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 81mm_M374_F02 | ln126_0632 |
| 807 | 757583.312 | 3638501.19 | 1 | 0.0328 | 0.49 | 46.5 | 2.3 | C/O | 105mm_M456_Heat_pit | 105mm_M60_H05 | 155mm_M483A1_J04 | ln340inv1 |
| 808 | 757525.875 | 3638283.623 | 1 | 0.0344 | 0.05 | -138.7 | -12.1 | C/O | 57mm_M86_L12 | M75_B01 | 37mm_H09 | ln120inv9 |
| 809 | 757433.018 | 3638320.16 | 1 | 0.0347 | 0.07 | 96.9 | -5.1 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln162inv19 |
| 810 | 757429.729 | 3638387.892 | 1 | 0.0358 | 0.33 | -6.9 | -23.5 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln231inv10 |
| 811 | 757447.962 | 3638378.913 | 1 | 0.0361 | 0 | -123.5 | -0.4 | C/O | 81mm_M374_pit | 60mm_M49A3_F10 | 2.75in_M230_M10 | ln221inv10 |
| 812 | 757419.636 | 3638198.76 | 1 | 0.0362 | 0 | 26.8 | -64.4 | C/O | 2.75in_M230_M10 | 60mm_M49A3_F10 | 57mm_M86_pit | ln53_0024 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 813 | 757537.718 | 3638485.749 | 1 | 0.0363 | 0.17 | -152.5 | 29.8 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln326inv11 |
| 814 | 757543.329 | 3638447.61 | 1 | 0.0386 | 0.07 | -6.9 | -2.6 | C/O | M42_H03 | BLU-26_M13 | M75_D01 | ln287inv16 |
| 815 | 757468.513 | 3638427.311 | 1 | 0.0406 | 0.43 | -102.6 | -59.2 | C/O | 81mm_M374_A02 | 105mm_M456_Heat_pit | 105mm_M60_B05 | ln269inv15 |
| 816 | 757556.247 | 3638507.468 | 0.95642 | 0.0432 | 0.29 | 86 | 19.5 | C/O | 40mm_MKII_E03 | M75_B01 | MK118_Rockeye_J01 | ln347inv12 |
| 817 | 757580.959 | 3638279.214 | 1 | 0.0445 | 0.09 | -150.2 | 1.8 | C/O | M75_B01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln114inv2 |
| 818 | 757414.13 | 3638348.284 | 1 | 0.0449 | 0 | -137.1 | -36.6 | C/O | 40mm_MKII_A03 | M75_A01 | BDU-28_M02 | ln191_0004 |
| 819 | 757417.086 | 3638314.231 | 1 | 0.0485 | 0 | -150.2 | 30.5 | C/O | M42_K03 | 37mm_I09 | 57mm_M86_L12 | ln156_1229 |
| 820 | 757476.056 | 3638188.21 | 1 | 0.0497 | 0.31 | 6.5 | 2.3 | C/O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_pit | ln41inv37 |
| 821 | 757459.176 | 3638328.071 | 1 | 0.0504 | 0 | -4.4 | -63 | C/O | M75_D01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln168inv24 |
| 822 | 757549.797 | 3638264.834 | 1 | 0.0533 | 0.29 | -93.3 | -4.5 | C/O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln103_1649 |
| 823 | 757437.659 | 3638317.8 | 1 | 0.054 | 0.12 | 114.6 | -55.7 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln159inv11 |
| 824 | 757431.644 | 3638373.887 | 1 | 0.0557 | 0.63 | 92.7 | -64.9 | C/O | 81mm_M374_C02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln216b3gEast22 |
| 825 | 757455.172 | 3638353.928 | 1 | 0.056 | 0.06 | 24 | -69.5 | C/O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_E02 | ln195inv11 |
| 826 | 757432.711 | 3638331.602 | 1 | 0.056 | 0.44 | -91 | -68.3 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln173inv13 |
| 827 | 757485.021 | 3638367.562 | 1 | 0.0575 | 0.19 | 88.8 | -75.6 | C/O | M75_F01 | 57mm_M86_L12 | 40mm_MKII_C03 | ln207inv9 |
| 828 | 757448.449 | 3638458.635 | 1 | 0.058 | 0.3 | 123.9 | -13.8 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln30213 |
| 829 | 757531.65 | 3638289.363 | 1 | 0.06 | 0.3 | 44.5 | -65.2 | C/O | 81mm_M374_C02 | 2.75in_M230_K10 | 60mm_M49A3_K11 | ln126inv12 |
| 830 | 757593.088 | 3638433.422 | 1 | 0.0602 | 0.19 | -113.8 | -56.9 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln270l2inv10 |
| 831 | 757526.737 | 3638455.134 | 1 | 0.0619 | 0.03 | -178.7 | 0.9 | C/O | 57mm_M86_L12 | BLU-26_K13 | 60mm_M49A3_K11 | ln296inv21 |
| 832 | 757604.734 | 3638322.408 | 1 | 0.0636 | 1.12 | 28.4 | -10.4 | C/O | 155mm_M483A1_D04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln157inv16 |
| 833 | 757440.763 | 3638485.756 | 1 | 0.0652 | 0.02 | -46.9 | 1.7 | C/O | 57mm_M86_M12 | BLU-26_L13 | 40mm_MKII_E03 | line329inv14 |
| 834 | 757531.404 | 3638412.973 | 0.99899 | 0.0653 | 0 | -59 | -3.5 | C/O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln253_0792 |
| 835 | 757416.704 | 3638276.489 | 1 | 0.0663 | 0 | -64.7 | -0.9 | C/O | 81mm_M374_pit | M75_B01 | 60mm_M49A3_K11 | ln119_0008 |
| 836 | 757444.433 | 3638486.608 | 1 | 0.0669 | 0.05 | -108.4 | 4.1 | C/O | 57mm_M86_L12 | 40mm_MKII_E03 | M75_B01 | line329inv17 |
| 837 | 757556.328 | 3638465.635 | 1 | 0.0674 | 0.38 | 22.3 | -44.2 | C/O | 105mm_M60_J05 | 155mm_M483A1_H04 | 105mm_M456_Heat_pit | ln305inv11 |
| 838 | 757593.599 | 3638503.857 | 0.99986 | 0.0674 | 0.92 | 150 | 24.5 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_H04 | 105mm_M60_H05 | ln342inv17 |
| 839 | 757443.093 | 3638235.641 | 1 | 0.0686 | 0.15 | -82.4 | -66.4 | C/O | 57mm_M86_L12 | 37mm_H09 | M75_B01 | ln89inv2 |
| 840 | 757462.738 | 3638318.046 | 1 | 0.0693 | 0.23 | 112.2 | -5.8 | C/O | 81mm_M374_C02 | 2.75in_M230_K10 | 105mm_M60_L05 | ln158inv17 |
| 841 | 757440.1 | 3638438.698 | 1 | 0.0716 | 0.29 | -108.7 | -39.1 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln281inv11 |
| 842 | 757593.939 | 3638320.632 | 1 | 0.0723 | 0.26 | 23.8 | 17.7 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln155inv42 |
| 843 | 757487.683 | 3638236.146 | 1 | 0.0745 | 0.23 | 153.9 | -12.4 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln90inv10 |
| 844 | 757595.163 | 3638356.613 | 1 | 0.0749 | 0.19 | 163.7 | -9.9 | C/O | 2.75in_M230_M10 | 60mm_M49A3_M11 | 81mm_M374_E02 | ln192inv7 |
| 845 | 757442.69 | 3638214.776 | 0.93277 | 0.0755 | 0.43 | -10.9 | -42.2 | C/O | 60mm_M49A3_F10 | BLU-26_J13 | M42_J03 | ln069inv33 |
| 846 | 757456.13 | 3638165.923 | 1 | 0.0765 | 0.11 | 173.1 | -60.9 | C/O | BDU-28_I02 | 57mm_M86_L12 | 37mm_H09 | ln18inv39 |
| 847 | 757423.832 | 3638187.422 | 0.53987 | 0.0785 | 0 | 138.8 | -78 | C/O | MK118_Rockeye_J01 | 37mm_H09 | BDU-28_K02 | ln47inv58 |
| 848 | 757549.246 | 3638262.607 | 1 | 0.0792 | 0.17 | -169.3 | -78.3 | C/O | M75_B01 | 57mm_M86_L12 | M42_J03 | ln117inv13 |
| 849 | 757602.676 | 3638413.002 | 1 | 0.0824 | 0.62 | 49.6 | -79.4 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_L06 | 81mm_M374_D02 | ln249inv17 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 850 | 757432.635 | 3638469.541 | 1 | 0.084 | 0.46 | -12.6 | -75.7 | C/O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln314_0763 |
| 851 | 757514.699 | 3638346.252 | 1 | 0.0841 | 0.55 | 150.5 | -40.2 | C/O | 155mm_M483A1_J04 | 105mm_M60_D05 | 105mm_M456_Heat_F06 | ln184_0937 |
| 852 | 757537.155 | 3638475.929 | 1 | 0.0843 | 0.12 | 30.6 | -66.1 | C/O | 105mm_M456_Heat_pit | 105mm_M60_B05 | 155mm_M483A1_H04 | ln317inv26 |
| 853 | 757489.03 | 3638472.141 | 1 | 0.0844 | 0.41 | -144 | -29.4 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln314inv5 |
| 854 | 757420.564 | 3638365.056 | 1 | 0.0847 | 0.36 | -76.5 | -66.7 | C/O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln208inv43 |
| 855 | 757495.31 | 3638386.56 | 1 | 0.0909 | 0.05 | 9.6 | 27.3 | C/O | BLU-26_L13 | 60mm_M49A3_F10 | M42_I03 | ln227in18 |
| 856 | 757442.307 | 3638260.137 | 1 | 0.0913 | 0.55 | -131.1 | -9.2 | C/O | 105mm_M456_Heat_H06 | 155mm_M483A1_H04 | 105mm_M60_J05 | ln103_1332 |
| 857 | 757436.112 | 3638286.457 | 0.89547 | 0.0931 | 1.38 | -31.4 | -68.7 | C/O | 155mm_M483A1_B04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln127inv6 |
| 858 | 757551.277 | 3638251.81 | 1 | 0.0944 | 0.22 | -94.4 | -80.5 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | line106inv11 |
| 859 | 757525.154 | 3638444.405 | 1 | 0.0968 | 0.21 | 36 | -48 | C/O | 155mm_M483A1_H04 | 105mm_M60_J05 | 105mm_M456_Heat_J06 | ln284inv11 |
| 860 | 757533.734 | 3638332.776 | 1 | 0.0979 | 0.13 | 133.9 | 7.6 | C/O | 57mm_M86_K12 | 81mm_M374_C02 | M75_E01 | ln170inv28 |
| 861 | 757520.339 | 3638422.571 | 1 | 0.0989 | 0 | 118.8 | 2.3 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_F01 | ln262_1114 |
| 862 | 757466.204 | 3638184.764 | 1 | 0.1028 | 0.1 | 138.2 | -0.3 | C/O | 57mm_M86_L12 | BDU-28_I02 | M75_B01 | ln38inv26 |
| 863 | 757462.233 | 3638284.782 | 1 | 0.1028 | 0.04 | -123.8 | -74.9 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_B01 | ln125inv12 |
| 864 | 757462.541 | 3638383.756 | 1 | 0.1058 | 0.55 | 36.3 | -50.4 | C/O | 155mm_M483A1_B04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln225inv20 |
| 865 | 757562.291 | 3638292.479 | 1 | 0.1064 | 0.38 | -156.9 | -8.9 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln128inv1 |
| 866 | 757475.512 | 3638216.65 | 1 | 0.1103 | 0.55 | -119.7 | 18.2 | C/O | 155mm_M483A1_D04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln071inv65 |
| 867 | 757521.121 | 3638499.647 | 1 | 0.1105 | 0.47 | 115.4 | -11.7 | C/O | 155mm_M483A1_J04 | 105mm_M456_Heat_pit | 105mm_M60_H05 | ln340inv4 |
| 868 | 757476.844 | 3638365.244 | 1 | 0.1147 | 0.2 | -146.5 | 7.8 | C/O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln206inv17 |
| 869 | 757557.603 | 3638497.01 | 1 | 0.1159 | 0.31 | 2.3 | -76.9 | C/O | 81mm_M374_C02 | 2.75in_M230_M10 | 105mm_M456_Heat_B06 | ln335inv6 |
| 870 | 757542.802 | 3638230.386 | 1 | 0.116 | 0.61 | -40.3 | -86.6 | C/O | 2.75in_M230_M10 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln84inv38 |
| 871 | 757424.527 | 3638471.032 | 1 | 0.1162 | 0.31 | 4.5 | -74.4 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_A02 | ln315inv6 |
| 872 | 757613.259 | 3638411.724 | 1 | 0.1171 | 0.22 | -106.9 | -85.8 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln249inv11 |
| 873 | 757580.308 | 3638493.56 | 1 | 0.1177 | 0.51 | 78 | -72.9 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln332inv5 |
| 874 | 757540.872 | 3638380.939 | 1 | 0.1177 | 0.25 | 147.8 | -5.1 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln220_0471 |
| 875 | 757589.267 | 3638303.757 | 0.59208 | 0.1201 | 0.2 | -55.3 | 23.6 | C/O | M42_L03 | BLU-26_M13 | 37mm_H09 | ln139inv12 |
| 876 | 757415.267 | 3638329.83 | 0.99998 | 0.1221 | 0.02 | 21.5 | -88.3 | C/O | 81mm_M374_E02 | 60mm_M49A3_F10 | 57mm_M86_L12 | ln172_1528 |
| 877 | 757434.419 | 3638291.919 | 1 | 0.1226 | 0.24 | -63.7 | -3.6 | C/O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln133inv1 |
| 878 | 757495.401 | 3638315.111 | 1 | 0.1231 | 0.04 | 37.1 | -86.4 | C/O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln154_0820 |
| 879 | 757433.841 | 3638274.834 | 1 | 0.1236 | 0.07 | 65.2 | -0.6 | C/O | 105mm_M60_J05 | 105mm_M456_Heat_F06 | 81mm_M374_A02 | ln118inv11 |
| 880 | 757585.205 | 3638238.65 | 1 | 0.1249 | 0 | 49.5 | -19.1 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln94_0004 |
| 881 | 757573.923 | 3638324.817 | 1 | 0.1254 | 0.05 | -177.7 | -72.5 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_L04 | ln160inv11 |
| 882 | 757619.386 | 3638424.147 | 1 | 0.1271 | 0.88 | 167.8 | -15.5 | C/O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln260inv5 |
| 883 | 757424.147 | 3638315.53 | 1 | 0.1299 | 0.01 | 38.9 | 12.1 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_L11 | ln157inv3 |
| 884 | 757459.019 | 3638390.956 | 1 | 0.1314 | 0.28 | 0.5 | -26.7 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln233inv12 |
| 885 | 757453.173 | 3638293.052 | 1 | 0.1351 | 0.27 | 110.6 | -47.1 | C/O | 57mm_M86_pit | M75_C01 | 81mm_M374_C02 | ln134inv14 |
| 886 | 757432.423 | 3638324.268 | 1 | 0.1498 | 0 | 51 | -7.7 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln166inv26 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 887 | 757563.889 | 3638246.536 | 1 | 0.1517 | 0.19 | 120.2 | -1.6 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln101inv16 |
| 888 | 757581.359 | 3638311.458 | 1 | 0.1551 | 0.04 | -81.1 | 1 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 37mm_H09 | ln147inv15 |
| 889 | 757450.135 | 3638297.38 | 1 | 0.1554 | 0.22 | 146 | 6.9 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | 40mm_MKII_A03 | ln138inv15 |
| 890 | 757542.811 | 3638452.124 | 1 | 0.1555 | 0.17 | 92.5 | -81.4 | C/O | M42_K03 | 57mm_M86_L12 | M75_B01 | ln292inv6 |
| 891 | 757497.021 | 3638404.874 | 0.99995 | 0.1571 | 0.89 | 18.7 | 36.9 | C/O | 2.75in_M230_K10 | 155mm_M483A1_H04 | 105mm_M60_J05 | ln245_0477 |
| 892 | 757606.101 | 3638335.154 | 1 | 0.1584 | 0.51 | 116.5 | 11.5 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_H04 | line170inv10 |
| 893 | 757442.404 | 3638467.004 | 1 | 0.1677 | 0.35 | 89.3 | -80.7 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln311inv6 |
| 894 | 757596.974 | 3638449.812 | 1 | 0.1735 | 0.26 | 19.4 | -0.4 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln287inv23 |
| 895 | 757413.436 | 3638402.843 | 1 | 0.1949 | 0 | 73.9 | 12.1 | C/O | 40mm_MKII_E03 | M75_B01 | 57mm_M86_L12 | ln246inv28 |
| 896 | 757485.68 | 3638268.114 | 0.99628 | 0.1972 | 0.28 | 33.5 | -76.7 | C/O | M75_B01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln106_0466 |
| 897 | 757584.708 | 3638487.226 | 1 | 0.1998 | 0.27 | 19.1 | -63.3 | C/O | 105mm_M60_J05 | 105mm_M456_Heat_J06 | 81mm_M374_A02 | ln326inv5 |
| 898 | 757461.036 | 3638256.792 | 1 | 0.1999 | 0.59 | -23.9 | -60.1 | C/O | 105mm_M456_Heat_J06 | 105mm_M60_F05 | 81mm_M374_A02 | ln111inv13 |
| 899 | 757482.14 | 3638438.992 | 0.99451 | 0.2023 | 0.54 | 120.3 | 18 | C/O | 81mm_M374_C02 | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln280inv28 |
| 900 | 757482.611 | 3638335.292 | 0.9214 | 0.2039 | 0.12 | 67 | 4 | C/O | M42_pit | 37mm_H09 | 40mm_MKII_pit | ln174_1016 |
| 901 | 757441.223 | 3638221.563 | 1 | 0.2045 | 0.28 | -39.4 | -84.8 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | 81mm_M374_pit | ln75inv1 |
| 902 | 757441.156 | 3638323.152 | 1 | 0.207 | 0.32 | -145.4 | -87.6 | C/O | 155mm_M483A1_H04 | 105mm_M60_D05 | 105mm_M456_Heat_F06 | ln164inv36 |
| 903 | 757593.833 | 3638440.396 | 1 | 0.2083 | 0.65 | 149.8 | -14.2 | C/O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln278inv2 |
| 904 | 757524.609 | 3638441.347 | 1 | 0.2099 | 0.09 | -129.2 | 0.4 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln281inv25 |
| 905 | 757480.058 | 3638399.366 | 0.99988 | 0.2118 | 0.3 | -164.6 | 17.2 | C/O | M75_D01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln240inv12 |
| 906 | 757595.159 | 3638468.072 | 1 | 0.2168 | 0.59 | 119.1 | -43.7 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln306inv2 |
| 907 | 757621.617 | 3638376.4 | 1 | 0.2183 | 0.62 | 43.8 | -36.1 | C/O | 155mm_M483A1_L04 | 105mm_M60_H05 | 105mm_M456_Heat_L06 | ln211inv26 |
| 908 | 757420.598 | 3638283.175 | 1 | 0.2189 | 0.28 | -68.7 | 1.8 | C/O | 60mm_M49A3_K11 | 57mm_M86_L12 | M75_B01 | ln125inv2 |
| 909 | 757545.533 | 3638444.444 | 1 | 0.2199 | 0.12 | -90.3 | -79.5 | C/O | M75_B01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln284inv7 |
| 910 | 757501.435 | 3638168.296 | 1 | 0.2201 | 0.22 | -133.3 | -5.3 | C/O | 40mm_MKII_A03 | M75_A01 | 37mm_H09 | ln19inv14 |
| 911 | 757597.934 | 3638390.809 | 1 | 0.2207 | 0.28 | 3.9 | -37.7 | C/O | 81mm_M374_C02 | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln227in46 |
| 912 | 757513.107 | 3638296.897 | 1 | 0.2242 | 0.18 | -146.2 | -4.9 | C/O | 105mm_M60_F05 | 105mm_M456_Heat_F06 | 81mm_M374_pit | ln134_0643 |
| 913 | 757540.685 | 3638217.327 | 1 | 0.2255 | 0.08 | -157.5 | 1.3 | C/O | 60mm_M49A3_K11 | 2.75in_M230_H10 | 81mm_M374_pit | ln070inv41 |
| 914 | 757559.214 | 3638369.664 | 1 | 0.2262 | 0.22 | -91.5 | -54.2 | C/O | 155mm_M483A1_L04 | 105mm_M60_J05 | 105mm_M456_Heat_pit | ln207inv17 |
| 915 | 757433.287 | 3638266.861 | 1 | 0.2374 | 0.3 | 45.1 | -34 | C/O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln108_0764 |
| 916 | 757453.577 | 3638361.166 | 1 | 0.2445 | 0.05 | 80.4 | -30.7 | C/O | 57mm_M86_M12 | 40mm_MKII_E03 | BLU-26_L13 | ln202inv8 |
| 917 | 757551.837 | 3638429.049 | 1 | 0.2598 | 0 | 170.3 | -61.9 | C/O | 105mm_M60_H05 | 105mm_M456_Heat_H06 | 155mm_M483A1_L04 | ln268_0631 |
| 918 | 757573.635 | 3638464.802 | 1 | 0.2626 | 0.36 | -115.9 | -80.8 | C/O | 81mm_M374_B02 | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln304inv2 |
| 919 | 757608.484 | 3638478.428 | 1 | 0.2692 | 0.45 | -149.6 | -83.2 | C/O | 105mm_M456_Heat_pit | 105mm_M60_F05 | 155mm_M483A1_H04 | ln316inv2 |
| 920 | 757430.998 | 3638469.596 | 1 | 0.2717 | 0.44 | -10.1 | -79.5 | C/O | 81mm_M374_pit | 2.75in_M230_M10 | 105mm_M60_L05 | ln314inv8 |
| 921 | 757497.73 | 3638383.993 | 1 | 0.2751 | 0 | 43.2 | -37 | C/O | 57mm_M86_L12 | 40mm_MKII_pit | 60mm_M49A3_K11 | ln224_1013 |
| 922 | 757575.349 | 3638368.845 | 1 | 0.2794 | 0.21 | 57.6 | -73.5 | C/O | 81mm_M374_A02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln206inv5 |
| 923 | 757457.968 | 3638438.941 | 1 | 0.2812 | 0.09 | -120.3 | 2.9 | C/O | 57mm_M86_M12 | M75_B01 | 40mm_MKII_E03 | ln281inv15 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 924 | 757418.72 | 3638182.039 | 1 | 0.2862 | 0.03 | -14 | -79.4 | C/O | 37mm_H09 | 57mm_M86_L12 | 40mm_MKII_A03 | ln35_0007 |
| 925 | 757507.765 | 3638338.906 | 1 | 0.2875 | 0.03 | -37.4 | 21.1 | C/O | M42_H03 | BLU-26_M13 | M75_A01 | ln177inv7 |
| 926 | 757604.311 | 3638328.983 | 0.99964 | 0.302 | 0.05 | -92 | -18.2 | C/O | 20mm_M55_I15 | M42_K03 | 57mm_M86_L12 | ln163inv11 |
| 927 | 757549.768 | 3638340.5 | 1 | 0.3148 | 0.1 | 13.5 | -39.2 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_J06 | 81mm_M374_D02 | ln177inv11 |
| 928 | 757423.367 | 3638400.752 | 1 | 0.326 | 0.16 | 131.6 | 10.6 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln244inv7 |
| 929 | 757603.281 | 3638476.597 | 1 | 0.3266 | 0.56 | 76.5 | -55 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_D02 | ln315inv12 |
| 930 | 757580.71 | 3638445.958 | 1 | 0.3272 | 0.49 | -137.7 | -63.9 | C/O | 105mm_M60_J05 | 105mm_M456_Heat_J06 | 155mm_M483A1_H04 | ln284inv4 |
| 931 | 757427.143 | 3638446.809 | 1 | 0.3283 | 0 | 114.8 | 5.5 | C/O | M42_K03 | 20mm_M55_I15 | 57mm_M86_L12 | ln290inv18 |
| 932 | 757513.916 | 3638310.79 | 1 | 0.331 | 0.01 | 141.7 | -66.4 | C/O | M75_C01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln148inv16 |
| 933 | 757507.547 | 3638416.533 | 1 | 0.3335 | 0 | -64.5 | -1.9 | C/O | 40mm_MKII_E03 | M42_K03 | BDU-28_I02 | ln257_0671 |
| 934 | 757450.02 | 3638352.929 | 1 | 0.335 | 0 | 45.1 | -28.7 | C/O | 40mm_MKII_E03 | 57mm_M86_L12 | BLU-26_K13 | ln194_0841 |
| 935 | 757545.179 | 3638265.631 | 1 | 0.3388 | 0.23 | -106 | -58 | C/O | M75_D01 | 57mm_M86_L12 | 40mm_MKII_C03 | ln103inv6 |
| 936 | 757602.637 | 3638415.822 | 1 | 0.3452 | 0.22 | 102.5 | 6 | C/O | 60mm_M49A3_F10 | 2.75in_M230_M10 | 81mm_M374_C02 | ln252inv8 |
| 937 | 757552.934 | 3638265.047 | 1 | 0.3516 | 0.25 | -95.1 | -1.7 | C/O | 60mm_M49A3_pit | 2.75in_M230_M10 | 81mm_M374_C02 | ln103_1666 |
| 938 | 757452.48 | 3638264.482 | 1 | 0.3565 | 0.28 | 9.1 | -73.4 | C/O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln105inv2 |
| 939 | 757543.982 | 3638484.985 | 1 | 0.3565 | 0.65 | 59.2 | 9.1 | C/O | 40mm_MKII_C03 | 37mm_K09 | M75_pit | ln324_0685 |
| 940 | 757481.503 | 3638375.712 | 1 | 0.3569 | 0 | 89.4 | -68.9 | C/O | 20mm_M55_M15 | 57mm_M86_L12 | 37mm_I09 | ln216b3gEast17 |
| 941 | 757478.322 | 3638418.414 | 1 | 0.3716 | 0.28 | 105.7 | -83.4 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 105mm_M60_L05 | ln260inv34 |
| 942 | 757464.309 | 3638232.189 | 1 | 0.3781 | 0.24 | 94.9 | 26.8 | C/O | 81mm_M374_D02 | 105mm_M60_L05 | 105mm_M456_Heat_J06 | ln86inv54 |
| 943 | 757586.238 | 3638461.229 | 1 | 0.3835 | 0.63 | 47.3 | -73.1 | C/O | 105mm_M456_Heat_F06 | 105mm_M60_L05 | 81mm_M374_A02 | ln300inv2 |
| 944 | 757566.225 | 3638320.97 | 1 | 0.4028 | 0.09 | -121.3 | -41.1 | C/O | M75_F01 | 57mm_M86_L12 | 40mm_MKII_C03 | ln157inv13 |
| 945 | 757445.19 | 3638251.316 | 1 | 0.4038 | 0.69 | 79.1 | -26.1 | C/O | 105mm_M60_B05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln105inv25 |
| 946 | 757570.327 | 3638388.479 | 1 | 0.4045 | 0.1 | 131.3 | 16.7 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | ln226inv16 |
| 947 | 757573.094 | 3638274.789 | 1 | 0.4161 | 0.05 | -30.2 | -76.9 | C/O | M42_J03 | M75_D01 | 37mm_L09 | ln110_0135 |
| 948 | 757565.437 | 3638250.165 | 1 | 0.4171 | 0.87 | 62.5 | -17 | C/O | 2.75in_M230_K10 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln105inv20 |
| 949 | 757480.423 | 3638290.314 | 1 | 0.4236 | 0.41 | 41.9 | -60.3 | C/O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln129inv7 |
| 950 | 757458.972 | 3638378.672 | 1 | 0.4351 | 0.39 | -147 | -17.6 | C/O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln22017 |
| 951 | 757570.996 | 3638269.955 | 1 | 0.4358 | 0.09 | -23.5 | -19 | C/O | 57mm_M86_M12 | 40mm_MKII_E03 | M75_B01 | ln105_0562 |
| 952 | 757473.526 | 3638256.268 | 1 | 0.4437 | 0.19 | 137.6 | -71.5 | C/O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 81mm_M374_D02 | ln110inv3 |
| 953 | 757539.322 | 3638387.777 | 1 | 0.4478 | 0.5 | -99.5 | -19.1 | C/O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_B06 | ln227in28 |
| 954 | 757448.511 | 3638314.576 | 1 | 0.4479 | 0.05 | 43.7 | -38.1 | C/O | 81mm_M374_C02 | 2.75in_M230_K10 | 105mm_M60_L05 | ln155inv10 |
| 955 | 757525.564 | 3638177.878 | 1 | 0.4506 | 0.3 | -23.5 | 2.8 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_F01 | ln29inv17 |
| 956 | 757479.636 | 3638507.707 | 0.99854 | 0.4515 | 0.02 | 163.4 | 26.7 | C/O | MK118_Rockeye_I01 | 57mm_M86_pit | 37mm_K09 | ln350_1731 |
| 957 | 757547.579 | 3638367.016 | 1 | 0.4515 | 0.49 | -18.7 | 34.2 | C/O | 105mm_M456_Heat_H06 | 105mm_M60_H05 | 155mm_M483A1_J04 | ln205inv26 |
| 958 | 757451.31 | 3638383.484 | 1 | 0.4576 | 0.04 | -67.4 | 20.8 | C/O | 2.75in_M230_K10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln225inv15 |
| 959 | 757420.369 | 3638372.646 | 1 | 0.4592 | 0.14 | 173.9 | 11.4 | C/O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_C01 | ln216b3gEast31 |
| 960 | 757426.962 | 3638222.718 | 1 | 0.4694 | 0.32 | -22.9 | -25.3 | C/O | 81mm_M374_D02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln77inv1 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 961 | 757622.133 | 3638434.54 | 1 | 0.4752 | 0.25 | 161.9 | -19.9 | C/O | M42_I03 | 40mm_MKII_pit | M75_C01 | ln270_0004 |
| 962 | 757462.645 | 3638193.597 | 1 | 0.4865 | 0.07 | -13.3 | -16.1 | C/O | 37mm_H09 | M42_K03 | M75_A01 | ln47_0622 |
| 963 | 757573.571 | 3638266.953 | 1 | 0.4916 | 0.25 | 164.2 | -0.8 | C/O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln103_0718 |
| 964 | 757460.125 | 3638352.773 | 1 | 0.4934 | 0.06 | -88.8 | -78.4 | C/O | 2.75in_M230_K10 | 60mm_M49A3_M11 | 81mm_M374_pit | ln193inv11 |
| 965 | 757543.556 | 3638272.604 | 1 | 0.4935 | 0.14 | -87.4 | -13.1 | C/O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln111inv4 |
| 966 | 757597.415 | 3638488.456 | 1 | 0.4936 | 0.35 | 171.5 | -69.5 | C/O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 81mm_M374_D02 | ln326inv2 |
| 967 | 757548.525 | 3638382.989 | 1 | 0.5021 | 1 | 50.4 | -81.2 | O | 105mm_M60_J05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln221inv16 |
| 968 | 757632.83 | 3638382.972 | 0.87804 | 0.5035 | 0.1 | -39.4 | -37.8 | O | M75_A01 | 40mm_MKII_A03 | M42_J03 | ln216b2gW2 |
| 969 | 757456.308 | 3638172.743 | 0.92987 | 0.5133 | 1.31 | 55.5 | -41.2 | O | 105mm_M60_F05 | 155mm_M483A1_H04 | 105mm_M456_Heat_F06 | ln25inv13 |
| 970 | 757461.137 | 3638165.942 | 1 | 0.5159 | 0.36 | 20 | -82.2 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 40mm_MKII_E03 | ln18inv34 |
| 971 | 757591.533 | 3638367.901 | 1 | 0.5174 | 0.43 | 49.6 | -78.8 | O | 105mm_M456_Heat_pit | 105mm_M60_F05 | 155mm_M483A1_H04 | ln204inv5 |
| 972 | 757613.744 | 3638507.885 | 1 | 0.5192 | 0.11 | -67.5 | -9.2 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_L12 | ln3469 |
| 973 | 757453.841 | 3638384.949 | 1 | 0.5287 | 0.51 | -118.4 | -80 | O | 105mm_M60_F05 | 81mm_M374_A02 | 105mm_M456_Heat_F06 | ln227in12 |
| 974 | 757463.258 | 3638293.059 | 1 | 0.5361 | 0.51 | -61.2 | -83.5 | O | 105mm_M456_Heat_B06 | 81mm_M374_A02 | 105mm_M60_L05 | ln133inv16 |
| 975 | 757609.098 | 3638453.476 | 1 | 0.5416 | 0.66 | -60.8 | -46.1 | O | 81mm_M374_C02 | 105mm_M456_Heat_F06 | 105mm_M60_L05 | ln290inv5 |
| 976 | 757536.361 | 3638283.602 | 1 | 0.5439 | 0.14 | 63.4 | -2.4 | O | 60mm_M49A3_M11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln120_0410 |
| 977 | 757581.132 | 3638396.25 | 1 | 0.5466 | 0.23 | -81.6 | -73.5 | O | 105mm_M60_L05 | 81mm_M374_A02 | 105mm_M456_Heat_B06 | ln233inv43 |
| 978 | 757534.744 | 3638283.507 | 1 | 0.549 | 0.09 | 65.5 | -0.2 | O | 60mm_M49A3_M11 | 57mm_M86_J12 | 2.75in_M230_M10 | ln120inv8 |
| 979 | 757445.401 | 3638233.472 | 1 | 0.5521 | 0.23 | -35.7 | 3.1 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln87inv5 |
| 980 | 757436.193 | 3638425.508 | 0.99998 | 0.5535 | 0.82 | 104.4 | -74.6 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln268inv19 |
| 981 | 757597.806 | 3638378.789 | 1 | 0.5561 | 0.26 | -10.8 | -4 | O | 105mm_M456_Heat_F06 | 105mm_M60_J05 | 81mm_M374_D02 | ln215inv15 |
| 982 | 757575.959 | 3638497.484 | 0.99564 | 0.5566 | 0.07 | -153 | -81.7 | O | BLU-26_M13 | M75_A01 | M42_J03 | ln337_1945 |
| 983 | 757414.953 | 3638332.392 | 1 | 0.5607 | 0 | -28 | 0.1 | O | M75_B01 | M42_K03 | 57mm_M86_L12 | ln175_0038 |
| 984 | 757525.3 | 3638484.251 | 1 | 0.5607 | 0.41 | 88.9 | -56.2 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 81mm_M374_D02 | ln324inv18 |
| 985 | 757599.587 | 3638499.263 | 1 | 0.5709 | 0.28 | 131.1 | -15.3 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln338inv12 |
| 986 | 757517.107 | 3638344.24 | 1 | 0.5725 | 0 | -32 | 36.7 | O | 155mm_M483A1_H04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln181inv_0901 |
| 987 | 757570.586 | 3638385.895 | 1 | 0.5754 | 0.32 | -46.1 | -19.7 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln223inv15 |
| 988 | 757513.108 | 3638246.74 | 1 | 0.5783 | 0.14 | -114.2 | 1.7 | O | 40mm_MKII_pit | 37mm_H09 | 57mm_M86_L12 | ln100_0905 |
| 989 | 757427.841 | 3638272.4 | 1 | 0.5802 | 0.09 | 47.3 | 6.6 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_A02 | ln114inv7 |
| 990 | 757459.462 | 3638241.755 | 1 | 0.5817 | 0.4 | 105.5 | -64.4 | O | M75_E01 | 57mm_M86_L12 | 60mm_M49A3_K11 | ln96inv28 |
| 991 | 757574.956 | 3638475.875 | 1 | 0.5848 | 0.42 | -83.6 | -64.6 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln315inv9 |
| 992 | 757497.952 | 3638407.646 | 0.95843 | 0.5895 | 0.06 | 86.3 | 4.8 | O | M42_K03 | 20mm_M55_I15 | BDU-28_M02 | ln248inv20 |
| 993 | 757589.525 | 3638464.278 | 1 | 0.5949 | 0.34 | -137.4 | -53.5 | O | 81mm_M374_A02 | 105mm_M60_J05 | 105mm_M456_Heat_F06 | ln303inv17 |
| 994 | 757487.942 | 3638404.894 | 1 | 0.5968 | 0.04 | 164.8 | 38.7 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln246inv20 |
| 995 | 757494.158 | 3638315.022 | 1 | 0.6072 | 0.04 | -104.9 | 15.1 | O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln153inv10 |
| 996 | 757412.822 | 3638359.597 | 1 | 0.6107 | 0.01 | 176.2 | -45.2 | O | M42_K03 | 40mm_MKII_E03 | 40mm_M385_J14 | ln203_0004 |
| 997 | 757532.175 | 3638393.7 | 1 | 0.6108 | 0.11 | 151.7 | -77.3 | O | 105mm_M456_Heat_F06 | 105mm_M60_L05 | 81mm_M374_C02 | ln233inv31 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 998 | 757592.305 | 3638298.549 | 1 | 0.6109 | 0.18 | -33 | 39.1 | O | 60mm_M49A3_L11 | 57mm_M86_J12 | 2.75in_M230_M10 | ln133inv28 |
| 999 | 757525.45 | 3638197.218 | 1 | 0.6148 | 0.34 | -29.4 | 0.4 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln49inv27 |
| 1000 | 757415.863 | 3638260.473 | 1 | 0.6198 | 0 | -7.3 | -24.2 | O | M42_J03 | M75_C01 | 20mm_M55_L15 | ln103_0003 |
| 1001 | 757603.943 | 3638274.536 | 1 | 0.6199 | 0 | 133.2 | -10.4 | O | M42_K03 | M75_B01 | 40mm_MKII_E03 | ln108_0025 |
| 1002 | 757449.96 | 3638375.174 | 1 | 0.6294 | 0.42 | -40.5 | 15 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln217inv14 |
| 1003 | 757573.585 | 3638491.612 | 1 | 0.6299 | 0.56 | -155.6 | -5.4 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln330inv4 |
| 1004 | 757454.143 | 3638494.884 | 1 | 0.6366 | 0.46 | 1.8 | -84 | O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_F10 | ln337inv31 |
| 1005 | 757488.345 | 3638202.927 | 1 | 0.6536 | 0.55 | 119.8 | -2.7 | O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_F10 | ln56inv21 |
| 1006 | 757572.119 | 3638383.033 | 1 | 0.6591 | 0.09 | -132.6 | -71.9 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln2208 |
| 1007 | 757461.111 | 3638329.598 | 1 | 0.6603 | 0.31 | -143.4 | -55 | O | 2.75in_M230_M10 | 60mm_M49A3_M11 | 81mm_M374_E02 | ln170inv37 |
| 1008 | 757434.844 | 3638460.474 | 1 | 0.673 | 0.87 | 155.7 | 9.2 | O | 155mm_M483A1_B04 | 105mm_M456_Heat_pit | 105mm_M60_H05 | ln304inv12 |
| 1009 | 757454.831 | 3638287.948 | 1 | 0.6825 | 0.3 | -165.2 | -2.7 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln128inv15 |
| 1010 | 757482.881 | 3638298.83 | 1 | 0.6844 | 0.05 | 125.7 | -44.8 | O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_K10 | ln138_0651 |
| 1011 | 757531.846 | 3638322.993 | 1 | 0.6959 | 0.08 | 59.5 | -71.6 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln160inv18 |
| 1012 | 757420.43 | 3638394.388 | 1 | 0.6964 | 0.54 | 158.7 | -72.2 | O | 81mm_M374_C02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln238inv14 |
| 1013 | 757498.652 | 3638492.422 | 1 | 0.7074 | 0.1 | 20.9 | 10.9 | O | BLU-26_I13 | M75_F01 | 57mm_M86_L12 | ln333inv5 |
| 1014 | 757447.895 | 3638308.894 | 1 | 0.7079 | 0.19 | -123.6 | -28.4 | O | 2.75in_M230_M10 | 81mm_M374_pit | 60mm_M49A3_M11 | ln149inv12 |
| 1015 | 757421.833 | 3638340.801 | 1 | 0.7096 | 0.17 | -82.4 | -68 | O | 81mm_M374_E02 | 2.75in_M230_M10 | 105mm_M456_Heat_B06 | ln182inv9 |
| 1016 | 757532.198 | 3638401.858 | 0.9801 | 0.7184 | 0.82 | 106 | -50.3 | O | 105mm_M60_L05 | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | ln242_0596 |
| 1017 | 757566.524 | 3638458.433 | 1 | 0.7219 | 0.09 | 116.8 | 12.5 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln2988 |
| 1018 | 757605.165 | 3638419.494 | 1 | 0.7235 | 0.36 | 8.5 | -87.3 | O | 2.75in_M230_M10 | 60mm_M49A3_M11 | 81mm_M374_pit | ln256inv12 |
| 1019 | 757440.152 | 3638320.121 | 1 | 0.7238 | 0.43 | -11.6 | 6.6 | O | 81mm_M374_C02 | 2.75in_M230_K10 | 105mm_M456_Heat_B06 | ln161inv13 |
| 1020 | 757618.578 | 3638287.044 | 0.99997 | 0.7387 | 0 | -135 | 28.1 | O | M42_J03 | M75_C01 | 37mm_H09 | ln120_0007 |
| 1021 | 757418.581 | 3638189.95 | 1 | 0.7413 | 0.06 | 69.2 | -80.2 | O | 57mm_M86_L12 | 37mm_H09 | 40mm_MKII_A03 | ln43_0007 |
| 1022 | 757440.65 | 3638378.634 | 1 | 0.7419 | 0.33 | 22.2 | -78.4 | O | 105mm_M456_Heat_F06 | 81mm_M374_C02 | 105mm_M60_L05 | ln221inv7 |
| 1023 | 757546.165 | 3638322.959 | 1 | 0.7424 | 0.06 | -105.4 | -58.5 | O | M75_E01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln159inv17 |
| 1024 | 757537.958 | 3638481.7 | 1 | 0.746 | 0.48 | 133.4 | 1.4 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln322inv31 |
| 1025 | 757494.252 | 3638268.091 | 1 | 0.7462 | 0.19 | -127.2 | -70.6 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln106_0415 |
| 1026 | 757572.255 | 3638429.909 | 1 | 0.7499 | 0.16 | -169.4 | -84.4 | O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln268inv8 |
| 1027 | 757503.781 | 3638444.466 | 1 | 0.7613 | 0.15 | -1.8 | 0.8 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln285inv15 |
| 1028 | 757542.519 | 3638352.986 | 0.99996 | 0.7657 | 0.01 | -124.8 | -56.2 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln190inv6 |
| 1029 | 757535.834 | 3638310.657 | 1 | 0.766 | 0.12 | 77.4 | -79.4 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln147inv13 |
| 1030 | 757448.613 | 3638316.48 | 1 | 0.7686 | 0.07 | -128.1 | -5.7 | O | 81mm_M374_pit | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln157inv6 |
| 1031 | 757431.129 | 3638266.715 | 1 | 0.769 | 0.25 | -136.5 | 32.1 | O | 81mm_M374_pit | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln108_0769 |
| 1032 | 757572.679 | 3638367.595 | 1 | 0.77 | 0.24 | -167.6 | -33.6 | O | 57mm_M86_J12 | M75_B01 | 60mm_M49A3_J11 | ln204inv8 |
| 1033 | 757455.978 | 3638293.485 | 1 | 0.7719 | 0.62 | -101.5 | -80.6 | O | 105mm_M456_Heat_F06 | 105mm_M60_L05 | 81mm_M374_F02 | ln134inv11 |
| 1034 | 757497.339 | 3638362.73 | 1 | 0.7721 | 0.2 | 56.8 | -2.4 | O | 105mm_M60_J05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln202inv13 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1035 | 757424.177 | 3638307.633 | 1 | 0.7859 | 0.64 | -140.4 | -72.9 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln149inv7 |
| 1036 | 757451.968 | 3638434.852 | 1 | 0.7881 | 0.08 | -94.9 | 15 | O | 57mm_M86_M12 | M75_C01 | 40mm_MKII_E03 | ln277inv9 |
| 1037 | 757594.197 | 3638382.601 | 1 | 0.79 | 0.21 | 72 | -64.1 | O | M42_J03 | M75_D01 | 57mm_M86_L12 | ln219inv34 |
| 1038 | 757547.843 | 3638348.359 | 1 | 0.7951 | 0.07 | -166.4 | -44.3 | O | M75_B01 | 57mm_M86_pit | 40mm_MKII_E03 | ln186inv5 |
| 1039 | 757436.589 | 3638186.268 | 1 | 0.7994 | 0.74 | -24.4 | -46.1 | O | 81mm_M374_C02 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln40inv28 |
| 1040 | 757549.445 | 3638210.101 | 1 | 0.8016 | 0.12 | 95 | -80.7 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln63inv12 |
| 1041 | 757576.528 | 3638484.693 | 1 | 0.802 | 0.36 | 86.6 | -80.3 | O | 105mm_M456_Heat_B06 | 105mm_M60_F05 | 81mm_M374_F02 | ln323inv14 |
| 1042 | 757456.247 | 3638275.541 | 1 | 0.8024 | 0.34 | -124.1 | -77.8 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_J04 | ln118inv2 |
| 1043 | 757436.25 | 3638346.35 | 1 | 0.8028 | 0.56 | -35.2 | -71.4 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln189inv8 |
| 1044 | 757528.19 | 3638378.966 | 1 | 0.8047 | 0.63 | 54.6 | -14.8 | O | 2.75in_M230_K10 | 155mm_M483A1_L04 | 105mm_M60_B05 | ln218inv7 |
| 1045 | 757493.314 | 3638298.996 | 0.88697 | 0.8063 | 0.16 | -130.4 | 29.6 | O | 20mm_M55_J15 | 57mm_M86_L12 | M42_K03 | ln135_0658 |
| 1046 | 757525.829 | 3638213.911 | 0.99999 | 0.8078 | 0.77 | 72.8 | -3.5 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln066inv15 |
| 1047 | 757544.262 | 3638308.687 | 1 | 0.8079 | 0.16 | -115.4 | -83.8 | O | M75_D01 | 37mm_L09 | 57mm_M86_L12 | ln145_0683 |
| 1048 | 757461.059 | 3638331.905 | 1 | 0.8133 | 0.2 | 83.1 | -80.3 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 81mm_M374_D02 | ln171inv15 |
| 1049 | 757453.936 | 3638190.131 | 1 | 0.818 | 0.2 | 4.2 | 4.4 | O | BDU-28_I02 | MK118_Rockeye_M01 | M42_I03 | ln43inv78 |
| 1050 | 757523.247 | 3638196.502 | 1 | 0.8241 | 0.43 | -106.9 | 1.2 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_L10 | ln49inv26 |
| 1051 | 757612.598 | 3638385.323 | 1 | 0.8241 | 0.13 | 139.2 | -75.2 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln221inv21 |
| 1052 | 757577.91 | 3638469.969 | 1 | 0.8268 | 0.49 | -162.6 | -67 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_J04 | ln309inv16 |
| 1053 | 757531.731 | 3638359.456 | 1 | 0.833 | 0.1 | -56.4 | 32.9 | O | M42_I03 | BLU-26_M13 | 37mm_H09 | ln197inv12 |
| 1054 | 757538.748 | 3638467.122 | 1 | 0.8431 | 0.17 | 110.9 | 14.2 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M60_J05 | ln308inv10 |
| 1055 | 757583.44 | 3638393.495 | 1 | 0.844 | 0.63 | 171.5 | -70.9 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln230inv9 |
| 1056 | 757452.869 | 3638152.477 | 0.65544 | 0.8441 | 1.13 | 29.9 | -41 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln5inv46 |
| 1057 | 757610.628 | 3638404.293 | 1 | 0.8441 | 0.04 | 10.6 | -79.5 | O | 105mm_M456_Heat_pit | 105mm_M60_F05 | 155mm_M483A1_H04 | ln240inv3 |
| 1058 | 757429.353 | 3638295.165 | 1 | 0.8505 | 0.57 | -88.9 | -61.2 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln136inv21 |
| 1059 | 757526.622 | 3638232.327 | 1 | 0.8509 | 0.16 | -36.2 | -87.8 | O | M42_J03 | BLU-26_M13 | 37mm_H09 | ln86inv50 |
| 1060 | 757581.373 | 3638277.071 | 1 | 0.8528 | 0.25 | -65.4 | -79.3 | O | BLU-26_M13 | M42_J03 | M75_D01 | ln112_0119 |
| 1061 | 757410.457 | 3638373.654 | 1 | 0.8557 | 0.01 | -82 | -79.5 | O | 60mm_M49A3_F10 | 2.75in_M230_M10 | 57mm_M86_L12 | ln216_1137 |
| 1062 | 757523.3 | 3638262.139 | 1 | 0.8571 | 0.33 | -82.1 | 9.1 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln116inv9 |
| 1063 | 757481.986 | 3638296.927 | 1 | 0.8586 | 0.04 | -116.6 | -68.7 | O | M75_C01 | 57mm_M86_L12 | 40mm_MKII_A03 | ln136inv7 |
| 1064 | 757568.128 | 3638478.062 | 1 | 0.8606 | 0.6 | 17.9 | -44 | O | 105mm_M456_Heat_pit | 105mm_M60_F05 | 155mm_M483A1_H04 | ln317inv32 |
| 1065 | 757528.596 | 3638395.634 | 1 | 0.8606 | 0.38 | 151.1 | -63.9 | O | 81mm_M374_E02 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln235inv17 |
| 1066 | 757486.919 | 3638219.195 | 1 | 0.8632 | 0.23 | 169 | -77.4 | O | M42_L03 | BLU-26_M13 | 37mm_H09 | ln072inv75 |
| 1067 | 757591.816 | 3638327.202 | 1 | 0.8638 | 0 | -161.2 | -12.3 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln162_0358 |
| 1068 | 757539.642 | 3638224.717 | 0.99987 | 0.8648 | 1.19 | -85.8 | -51 | O | 105mm_M456_Heat_B06 | 105mm_M60_F05 | 81mm_M374_D02 | ln78inv1 |
| 1069 | 757535.254 | 3638464.568 | 1 | 0.8667 | 0.09 | -39.1 | 2.2 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_L10 | ln305inv9 |
| 1070 | 757443.937 | 3638272.835 | 1 | 0.8668 | 0.16 | 140.6 | -42.4 | O | 57mm_M86_L12 | M75_B01 | 60mm_M49A3_K11 | ln113inv3 |
| 1071 | 757481.757 | 3638350.765 | 1 | 0.869 | 0.14 | 167.4 | -61.8 | O | 81mm_M374_C02 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln190inv19 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1072 | 757453.626 | 3638464.546 | 1 | 0.8696 | 0.38 | -46.4 | -89.2 | O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln308_1103 |
| 1073 | 757458.141 | 3638168.947 | 1 | 0.8701 | 0.5 | -72.4 | 18.7 | O | 105mm_M456_Heat_B06 | 81mm_M374_D02 | 105mm_M60_L05 | ln21inv32 |
| 1074 | 757583.858 | 3638434.451 | 1 | 0.8724 | 0.19 | 71 | -85.1 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln272inv3 |
| 1075 | 757534.365 | 3638209.211 | 1 | 0.8729 | 0.12 | -122 | -85.4 | O | M75_C01 | 37mm_L09 | 57mm_M86_L12 | ln62inv36 |
| 1076 | 757520.124 | 3638408.631 | 0.99999 | 0.8737 | 0 | 44.6 | -37 | O | 40mm_MKII_E03 | 57mm_M86_L12 | M42_I03 | ln248_0823 |
| 1077 | 757427.88 | 3638409.904 | 1 | 0.8747 | 0.58 | 53.4 | -68.1 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln253inv6 |
| 1078 | 757521.993 | 3638378.177 | 0.99995 | 0.8756 | 0.36 | -50.9 | 18 | O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln217inv20 |
| 1079 | 757459.766 | 3638236.267 | 1 | 0.8766 | 0.43 | -72 | -71.7 | O | 81mm_M374_C02 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln90inv12 |
| 1080 | 757520.446 | 3638494.283 | 1 | 0.8777 | 0.28 | 124.2 | -60.7 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln334inv5 |
| 1081 | 757491.896 | 3638312.934 | 1 | 0.8802 | 0.07 | -85.5 | 29.6 | O | M75_E01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln151inv13 |
| 1082 | 757564.328 | 3638489.409 | 1 | 0.8834 | 0.07 | 35.6 | -5.5 | O | 105mm_M60_F05 | 105mm_M456_Heat_J06 | 81mm_M374_C02 | line329inv29 |
| 1083 | 757572.919 | 3638252.812 | 1 | 0.8871 | 0.06 | -55.6 | 23 | O | BLU-26_L13 | 57mm_M86_M12 | 40mm_MKII_E03 | ln108inv11 |
| 1084 | 757458.836 | 3638232.219 | 1 | 0.8908 | 0.12 | 62.2 | 30.2 | O | 2.75in_M230_J10 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln86inv55 |
| 1085 | 757430.701 | 3638383.559 | 1 | 0.8909 | 0.55 | 76.4 | -84.9 | O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln226inv35 |
| 1086 | 757572.432 | 3638479.902 | 1 | 0.8936 | 0.32 | 127.4 | -73.2 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln319inv18 |
| 1087 | 757433.964 | 3638389.348 | 1 | 0.898 | 0.35 | 104.1 | -1.5 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_J04 | ln232inv35 |
| 1088 | 757614.791 | 3638453.655 | 0.56379 | 0.899 | 0.05 | 76 | -12.3 | O | BDU-28_pit | MK118_Rockeye_J01 | 37mm_M09 | ln290inv3 |
| 1089 | 757519.596 | 3638269.122 | 1 | 0.9021 | 0.31 | -161 | -8.5 | O | 60mm_M49A3_K11 | 81mm_M374_C02 | 2.75in_M230_M10 | ln106_0350 |
| 1090 | 757511.744 | 3638317.061 | 1 | 0.9027 | 0.04 | -133.3 | 6.3 | O | 81mm_M374_C02 | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln155inv22 |
| 1091 | 757480.45 | 3638283.137 | 1 | 0.903 | 0.18 | 54.6 | -37.1 | O | M75_B01 | 57mm_M86_pit | 40mm_MKII_E03 | ln122_0555 |
| 1092 | 757573.608 | 3638371.179 | 1 | 0.9037 | 0.11 | 51.8 | -5.9 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_J04 | ln208_0322 |
| 1093 | 757426.807 | 3638256.151 | 1 | 0.9053 | 0.22 | -1.2 | 28.5 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln110inv1 |
| 1094 | 757418.622 | 3638403.168 | 1 | 0.9057 | 0.07 | -5.2 | -71.7 | O | M42_I03 | BLU-26_M13 | M75_D01 | ln246inv25 |
| 1095 | 757466.743 | 3638485.706 | 1 | 0.9068 | 3.77 | -73.6 | -45 | O | 155mm_M483A1_D04 | 2.75in_M230_J10 | 105mm_M60_F05 | ln328_1093 |
| 1096 | 757492.881 | 3638285.942 | 1 | 0.9071 | 0.21 | -174.7 | -79.8 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln124inv10 |
| 1097 | 757433.2 | 3638280.153 | 1 | 0.9089 | 0.15 | 97.7 | -87.8 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln121inv2 |
| 1098 | 757572.91 | 3638270.039 | 1 | 0.9127 | 0.03 | -42.2 | -8 | O | 57mm_M86_M12 | M75_B01 | 40mm_MKII_E03 | ln105inv4 |
| 1099 | 757461.699 | 3638344.948 | 1 | 0.9149 | 0.16 | -17.3 | 28.5 | O | 155mm_M483A1_B04 | 105mm_M456_Heat_B06 | 105mm_M60_B05 | ln185inv7 |
| 1100 | 757495.83 | 3638305.058 | 1 | 0.9172 | 0.07 | 73.2 | -74.6 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln143inv9 |
| 1101 | 757518.816 | 3638304.142 | 1 | 0.9172 | 0 | -169.8 | -46.2 | O | 57mm_M86_M12 | 40mm_MKII_D03 | BLU-26_L13 | ln141_0482 |
| 1102 | 757579.085 | 3638331.215 | 1 | 0.92 | 0.05 | -40.4 | -53.4 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln167inv42 |
| 1103 | 757493.232 | 3638407.641 | 1 | 0.921 | 0.41 | -95.7 | -75.4 | O | 60mm_M49A3_M11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln248inv22 |
| 1104 | 757429.089 | 3638231.028 | 1 | 0.9214 | 0.44 | -59.7 | 4.8 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln85inv45 |
| 1105 | 757553.753 | 3638252.284 | 1 | 0.9231 | 0.09 | -31.6 | 10.1 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_L10 | line106inv12 |
| 1106 | 757535.755 | 3638224.935 | 0.99967 | 0.9247 | 0.2 | 168 | -3.4 | O | 20mm_M55_M15 | 57mm_M86_L12 | M42_K03 | ln78inv2 |
| 1107 | 757451.288 | 3638248.396 | 1 | 0.9249 | 0.31 | 25.9 | 38.2 | O | 105mm_M456_Heat_L06 | 105mm_M60_H05 | 155mm_M483A1_H04 | ln102inv2 |
| 1108 | 757621.397 | 3638425.19 | 1 | 0.927 | 1.37 | -9.8 | 16.6 | O | 155mm_M483A1_D04 | 2.75in_M230_L10 | 105mm_M60_F05 | ln261inv18 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1109 | 757455.873 | 3638280.917 | 0.99664 | 0.9284 | 0.35 | -64.4 | 13.9 | O | 57mm_M86_L12 | 60mm_M49A3_K11 | 37mm_L09 | ln121inv4 |
| 1110 | 757499.408 | 3638331.272 | 1 | 0.9289 | 0.03 | 176.8 | 7.3 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln170inv31 |
| 1111 | 757471.8 | 3638302.776 | 1 | 0.9298 | 0.06 | 17.8 | -68.4 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln142inv19 |
| 1112 | 757430.061 | 3638417.098 | 1 | 0.9299 | 0.02 | 129.4 | -12.7 | O | 60mm_M49A3_K11 | 81mm_M374_C02 | 2.75in_M230_M10 | ln260inv40 |
| 1113 | 757446.026 | 3638169.391 | 1 | 0.9306 | 0.62 | -166.4 | -15 | O | 81mm_M374_C02 | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln22inv59 |
| 1114 | 757543.529 | 3638220.374 | 1 | 0.9314 | 0.07 | -46.5 | -41.1 | O | BLU-26_L13 | 57mm_M86_M12 | 40mm_MKII_E03 | ln074inv112 |
| 1115 | 757590.945 | 3638491.134 | 1 | 0.9316 | 0.33 | 105.7 | -75 | O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | line329inv23 |
| 1116 | 757447.565 | 3638186.313 | 1 | 0.9329 | 0.11 | -166.7 | -66 | O | 57mm_M86_L12 | M75_C01 | 60mm_M49A3_K11 | ln40inv21 |
| 1117 | 757592.187 | 3638377.807 | 1 | 0.9337 | 0.59 | 85 | -80.5 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln214inv7 |
| 1118 | 757422.687 | 3638441.889 | 0.95693 | 0.9339 | 0.25 | 11.1 | -0.1 | O | M42_J03 | M75_D01 | 37mm_I09 | ln285inv5 |
| 1119 | 757513.594 | 3638302.77 | 1 | 0.9349 | 0.33 | 117.6 | 29 | O | 81mm_M374_pit | 2.75in_M230_L10 | 60mm_M49A3_K11 | ln140inv6 |
| 1120 | 757473.67 | 3638302.686 | 1 | 0.9354 | 0.21 | 92.1 | -31.6 | O | 57mm_M86_L12 | 60mm_M49A3_K11 | M75_C01 | ln142inv15 |
| 1121 | 757581.333 | 3638321.518 | 0.94001 | 0.9366 | 0.66 | 16.3 | -60.4 | O | 57mm_M86_M12 | 40mm_MKII_E03 | M75_C01 | ln157_0923 |
| 1122 | 757504.734 | 3638315.307 | 1 | 0.9368 | 0.18 | -4.8 | 1.3 | O | 81mm_M374_E02 | 2.75in_M230_M10 | 60mm_M49A3_M11 | ln153inv13 |
| 1123 | 757531.934 | 3638175.915 | 1 | 0.9371 | 0.19 | 175.9 | 8.3 | O | BLU-26_L13 | 57mm_M86_M12 | M75_C01 | ln26inv23 |
| 1124 | 757533.102 | 3638350.655 | 1 | 0.9376 | 0.02 | -38.9 | -2.5 | O | BLU-26_L13 | 57mm_M86_M12 | M75_C01 | ln189inv14 |
| 1125 | 757558.917 | 3638248.791 | 1 | 0.9376 | 0.07 | 26.1 | -58.1 | O | 57mm_M86_K12 | 81mm_M374_C02 | 105mm_M456_Heat_B06 | ln103inv4 |
| 1126 | 757552.532 | 3638262.3 | 1 | 0.9376 | 0.17 | -155.3 | -41 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln117inv12 |
| 1127 | 757559.356 | 3638272.948 | 1 | 0.9378 | 0.25 | -19.9 | -86.1 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_pit | ln108inv5 |
| 1128 | 757613.597 | 3638425.613 | 1 | 0.9398 | 0.55 | 85.6 | 5.2 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln262inv8 |
| 1129 | 757609.129 | 3638493.427 | 1 | 0.9413 | 0.07 | -121.1 | -77.1 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_J04 | ln331inv12 |
| 1130 | 757529.485 | 3638469.405 | 1 | 0.9418 | 0.32 | -23.5 | -86.5 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln310inv8 |
| 1131 | 757523.998 | 3638211.075 | 1 | 0.9423 | 0.24 | -27.9 | -81.2 | O | 57mm_M86_L12 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln64inv20 |
| 1132 | 757542.97 | 3638330.45 | 1 | 0.9435 | 0.38 | -48.1 | 6.3 | O | 105mm_M456_Heat_pit | 105mm_M60_H05 | 155mm_M483A1_J04 | ln167inv38 |
| 1133 | 757478.341 | 3638207.614 | 1 | 0.9436 | 0.16 | 108.7 | -57.5 | O | M42_J03 | BLU-26_M13 | M75_C01 | ln61inv32 |
| 1134 | 757600.091 | 3638366.721 | 1 | 0.9439 | 0.18 | 39.1 | -38.3 | O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln203inv26 |
| 1135 | 757543.219 | 3638210.348 | 1 | 0.9445 | 0.13 | -71.7 | -35.3 | O | 60mm_M49A3_L11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln63inv11 |
| 1136 | 757580.388 | 3638465.481 | 1 | 0.9458 | 0.42 | -75.7 | -84.9 | O | 105mm_M60_J05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln305inv14 |
| 1137 | 757509.442 | 3638363.796 | 1 | 0.946 | 0.54 | -127.4 | 36.7 | O | 155mm_M483A1_J04 | 105mm_M60_B05 | 105mm_M456_Heat_B06 | ln203inv20 |
| 1138 | 757583.389 | 3638327.803 | 1 | 0.9467 | 0.19 | -42.9 | 21.8 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_pit | ln163inv8 |
| 1139 | 757478.722 | 3638283.036 | 1 | 0.9478 | 0.13 | 55.1 | -34.6 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln122inv8 |
| 1140 | 757603.742 | 3638404.882 | 1 | 0.9479 | 0.05 | -73.4 | 5.3 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln241inv29 |
| 1141 | 757584.175 | 3638314.563 | 1 | 0.9482 | 0.09 | -153 | 0.9 | O | 37mm_H09 | 57mm_M86_L12 | 40mm_MKII_pit | ln1501inv39 |
| 1142 | 757464.262 | 3638160.669 | 1 | 0.9493 | 0.2 | 105.1 | -66.4 | O | 105mm_M456_Heat_pit | 105mm_M60_F05 | 155mm_M483A1_H04 | ln13inv38 |
| 1143 | 757510.469 | 3638219.977 | 1 | 0.9493 | 0.08 | 63.8 | -47 | O | 20mm_M55_J15 | M42_K03 | 57mm_M86_L12 | ln073inv109 |
| 1144 | 757612.471 | 3638418.674 | 1 | 0.9493 | 0.27 | -70.1 | 10.8 | O | 60mm_M49A3_pit | 2.75in_M230_M10 | 81mm_M374_C02 | ln255inv21 |
| 1145 | 757450.237 | 3638362.821 | 1 | 0.9501 | 0.12 | 55.4 | -6.4 | O | 81mm_M374_C02 | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln204inv11 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1146 | 757605.357 | 3638443.471 | 1 | 0.951 | 0.45 | 99.3 | -81.1 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_J04 | ln280inv6 |
| 1147 | 757437.015 | 3638368.358 | 1 | 0.9519 | 0 | -74.6 | -81.6 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln210inv7 |
| 1148 | 757446.447 | 3638205.646 | 1 | 0.9538 | 0.83 | 170.8 | -76.9 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln59inv11 |
| 1149 | 757482.874 | 3638342.097 | 0.99965 | 0.9542 | 0.07 | 68.1 | 8.5 | O | 37mm_H09 | 57mm_M86_L12 | M42_K03 | ln182_1214 |
| 1150 | 757487.534 | 3638425 | 1 | 0.9542 | 0.15 | 57.5 | -10.4 | O | 2.75in_M230_J10 | 155mm_M483A1_H04 | 105mm_M60_B05 | ln266inv19 |
| 1151 | 757516.428 | 3638270.94 | 1 | 0.9545 | 0.24 | -169.6 | -8.8 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln108_0429 |
| 1152 | 757521.479 | 3638210.235 | 0.77705 | 0.9548 | 0.8 | -11.8 | -52.1 | O | 155mm_M483A1_D04 | 2.75in_M230_pit | 105mm_M60_F05 | ln065_0617 |
| 1153 | 757455.677 | 3638314.966 | 1 | 0.9562 | 0.15 | -72.8 | 6.7 | O | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | 105mm_M60_H05 | ln155inv14 |
| 1154 | 757573.826 | 3638300.536 | 1 | 0.9573 | 0.02 | 109.4 | -70.7 | O | M42_J03 | BLU-26_M13 | 37mm_L09 | ln136inv5 |
| 1155 | 757453.493 | 3638363.854 | 1 | 0.9578 | 0 | -41 | 14.3 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_L10 | ln205inv12 |
| 1156 | 757505.914 | 3638373.014 | 1 | 0.958 | 0.55 | -58.3 | -80.7 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln213inv15 |
| 1157 | 757579.613 | 3638277 | 1 | 0.9583 | 0.16 | -91.8 | -89.2 | O | M42_L03 | BLU-26_M13 | 37mm_H09 | ln112inv1 |
| 1158 | 757516.106 | 3638292.722 | 1 | 0.959 | 0.04 | 112.8 | -44.5 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln1304 |
| 1159 | 757608.459 | 3638400.585 | 1 | 0.9602 | 0.14 | -125.7 | -14.3 | O | 155mm_M483A1_F04 | 105mm_M60_H05 | 105mm_M456_Heat_pit | ln237inv25 |
| 1160 | 757449.146 | 3638161.064 | 1 | 0.9604 | 0.28 | -65.4 | -78.7 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln14inv53 |
| 1161 | 757568.281 | 3638447.44 | 1 | 0.9606 | 0.76 | 112.3 | -78.1 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_J04 | ln286inv7 |
| 1162 | 757567.174 | 3638467.027 | 1 | 0.9614 | 0.4 | -43.7 | -46.9 | O | 81mm_M374_E02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln306inv5 |
| 1163 | 757498.319 | 3638263.076 | 1 | 0.9617 | 0.06 | -96.1 | -54.3 | O | M42_J03 | BLU-26_M13 | 37mm_H09 | ln103inv11 |
| 1164 | 757480.448 | 3638318.806 | 1 | 0.9623 | 0.36 | 23.8 | -61.3 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 81mm_M374_D02 | ln158inv14 |
| 1165 | 757595.779 | 3638348.453 | 1 | 0.9637 | 0.09 | -95.4 | -70 | O | M42_L03 | BLU-26_M13 | M75_C01 | ln184inv1 |
| 1166 | 757497.785 | 3638244.428 | 1 | 0.9638 | 0.45 | 150 | -87.5 | O | 57mm_M86_pit | M75_C01 | 2.75in_M230_M10 | ln98inv15 |
| 1167 | 757548.693 | 3638223.473 | 1 | 0.9638 | 0.4 | 54.5 | -60.4 | O | 2.75in_M230_L10 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln76inv10 |
| 1168 | 757441.327 | 3638281.24 | 1 | 0.9643 | 0.34 | -5 | -77.9 | O | 60mm_M49A3_K11 | 57mm_M86_J12 | 2.75in_M230_M10 | ln122inv10 |
| 1169 | 757598.076 | 3638354.665 | 1 | 0.9648 | 0.42 | 84.5 | -67.3 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_pit | ln190inv3 |
| 1170 | 757606.536 | 3638415.134 | 1 | 0.9652 | 0.03 | 108.8 | -80.1 | O | 57mm_M86_L12 | 37mm_H09 | 40mm_MKII_A03 | ln251inv22 |
| 1171 | 757515.55 | 3638252.391 | 1 | 0.9653 | 0.06 | -20.8 | -63 | O | M42_J03 | BLU-26_M13 | M75_C01 | line106inv9 |
| 1172 | 757573.491 | 3638258.146 | 0.99999 | 0.9658 | 0.2 | 97.8 | -33.8 | O | 20mm_M55_M15 | 57mm_M86_L12 | M42_K03 | ln113inv10 |
| 1173 | 757440.075 | 3638326.083 | 1 | 0.9665 | 0.38 | -1.4 | -24.7 | O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln167inv18 |
| 1174 | 757580.88 | 3638478.103 | 1 | 0.9669 | 0.58 | -134.1 | -23.2 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 81mm_M374_D02 | ln317inv35 |
| 1175 | 757454.884 | 3638192.485 | 1 | 0.9669 | 0.14 | -32.6 | -44.3 | O | BLU-26_L13 | 57mm_M86_M12 | M75_C01 | ln46inv47 |
| 1176 | 757446.995 | 3638352.981 | 1 | 0.9673 | 0.09 | 61.4 | -12.6 | O | 57mm_M86_M12 | M75_C01 | 40mm_MKII_E03 | ln194inv8 |
| 1177 | 757513.934 | 3638399.762 | 0.99851 | 0.9674 | 0.06 | -169.9 | -54.9 | O | BLU-26_L13 | BDU-28_pit | MK118_Rockeye_J01 | ln240_1053 |
| 1178 | 757437.549 | 3638487.029 | 1 | 0.9682 | 0.18 | 52.3 | -14.9 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_J04 | ln330inv15 |
| 1179 | 757549.951 | 3638272.896 | 1 | 0.9687 | 0.23 | -79.2 | 2.7 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln111inv6 |
| 1180 | 757496.043 | 3638297.258 | 1 | 0.9704 | 0.14 | 5.1 | -13.8 | O | 57mm_M86_M12 | M75_C01 | 60mm_M49A3_J11 | ln135_0416 |
| 1181 | 757563.648 | 3638299.319 | 1 | 0.9706 | 0.38 | -115 | -81 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln135inv14 |
| 1182 | 757578.462 | 3638392.838 | 1 | 0.9713 | 0.44 | -86.2 | -65.8 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 155mm_M483A1_J04 | ln230inv12 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1183 | 757436.228 | 3638244.212 | 1 | 0.9716 | 0.05 | 166.3 | -10.8 | O | 57mm_M86_M12 | BLU-26_L13 | 40mm_MKII_E03 | ln98inv17 |
| 1184 | 757504.145 | 3638264.866 | 1 | 0.9729 | 0.23 | -132.8 | -79.1 | O | M75_C01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln103inv3 |
| 1185 | 757584.069 | 3638288.991 | 1 | 0.9732 | 0.15 | 88.2 | -85.7 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln124inv2 |
| 1186 | 757612.7 | 3638284.766 | 1 | 0.9734 | 0 | 113.6 | -0.2 | O | M42_K03 | M75_B01 | 57mm_M86_L12 | ln118_0022 |
| 1187 | 757545.141 | 3638185.792 | 0.50611 | 0.9735 | 0.18 | 67.7 | -51.9 | O | M42_K03 | 20mm_M55_I15 | 40mm_M385_pit | ln38_0116 |
| 1188 | 757537.546 | 3638244.343 | 1 | 0.9736 | 0.13 | 99 | -71.2 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln98inv13 |
| 1189 | 757592.594 | 3638422.853 | 1 | 0.9738 | 0.2 | 109.1 | 4.1 | O | 60mm_M49A3_F10 | 2.75in_M230_M10 | 81mm_M374_C02 | ln260inv18 |
| 1190 | 757462.222 | 3638272.802 | 1 | 0.9741 | 0.07 | 99.4 | 10.9 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln112inv5 |
| 1191 | 757525.894 | 3638318.287 | 1 | 0.9745 | 0.64 | -110.1 | -59.3 | O | 105mm_M456_Heat_F06 | 81mm_M374_F02 | 105mm_M60_L05 | ln155inv27 |
| 1192 | 757537.656 | 3638328.982 | 1 | 0.9746 | 0.24 | 108.1 | -5.3 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln166inv5 |
| 1193 | 757447.672 | 3638366.8 | 1 | 0.975 | 0.75 | -110.7 | -72.4 | O | 155mm_M483A1_B04 | 105mm_M60_J05 | 105mm_M456_Heat_J06 | ln208inv39 |
| 1194 | 757601.223 | 3638458.78 | 1 | 0.9753 | 0.07 | 53.4 | -79.7 | O | M42_J03 | BLU-26_M13 | 37mm_H09 | ln296inv5 |
| 1195 | 757500.864 | 3638346.676 | 0.99859 | 0.9758 | 0.14 | 68.3 | -34 | O | 20mm_M55_M15 | M42_K03 | 57mm_M86_L12 | ln186inv11 |
| 1196 | 757598.507 | 3638446.421 | 1 | 0.9761 | 0.56 | 72.3 | -72.7 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln283inv19 |
| 1197 | 757501.781 | 3638280.952 | 1 | 0.9761 | 0.05 | -59.7 | -29.9 | O | 57mm_M86_M12 | M75_C01 | 81mm_M374_C02 | ln119inv18 |
| 1198 | 757489.972 | 3638219.636 | 1 | 0.9762 | 0.28 | 55.4 | -55.3 | O | M42_L03 | BLU-26_M13 | M75_C01 | ln073inv108 |
| 1199 | 757440.375 | 3638275.314 | 1 | 0.9763 | 0.25 | -140.6 | -5.2 | O | 60mm_M49A3_L11 | 57mm_M86_L12 | M75_F01 | ln118inv8 |
| 1200 | 757608.233 | 3638434.868 | 1 | 0.9764 | 0.43 | -82.7 | -74.6 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_L10 | ln271inv15 |
| 1201 | 757468.027 | 3638434.213 | 1 | 0.9769 | 0.5 | 153.7 | 35.2 | O | 81mm_M374_E02 | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln276inv5 |
| 1202 | 757591.57 | 3638456.176 | 1 | 0.9771 | 0.42 | 60.5 | -21.2 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 81mm_M374_F02 | ln294invX5 |
| 1203 | 757585.915 | 3638473.413 | 1 | 0.9777 | 0.13 | 165.4 | -67.9 | O | 2.75in_M230_M10 | 81mm_M374_pit | 105mm_M60_L05 | ln312inv9 |
| 1204 | 757560.022 | 3638328.773 | 1 | 0.978 | 0.18 | -69.6 | -11.5 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln165inv31 |
| 1205 | 757581.953 | 3638431.254 | 1 | 0.9781 | 0.07 | -70.7 | 13 | O | 81mm_M374_pit | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln269inv19 |
| 1206 | 757601.133 | 3638387.951 | 1 | 0.9782 | 0.25 | 162.7 | -0.7 | O | 155mm_M483A1_J04 | 105mm_M456_Heat_pit | 105mm_M60_H05 | ln224inv2 |
| 1207 | 757576.29 | 3638339.536 | 1 | 0.9784 | 0.26 | -11 | -48.8 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln175inv18 |
| 1208 | 757590.671 | 3638327.15 | 1 | 0.9785 | 0 | -168.2 | -21.6 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 40mm_MKII_A03 | ln162inv14 |
| 1209 | 757465.614 | 3638224.31 | 1 | 0.9787 | 1.37 | 50.5 | -6 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_D06 | ln78inv11 |
| 1210 | 757433.797 | 3638348.575 | 1 | 0.9787 | 0 | 43.1 | -37 | O | 57mm_M86_L12 | 40mm_MKII_E03 | M75_B01 | ln190_1166 |
| 1211 | 757477.867 | 3638212.156 | 1 | 0.9795 | 0.27 | -152.7 | 30.5 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_J04 | ln066inv16 |
| 1212 | 757548.327 | 3638481.779 | 1 | 0.9796 | 0.16 | -53.4 | -66.5 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln321inv20 |
| 1213 | 757509.178 | 3638294.04 | 1 | 0.9797 | 0.08 | -118 | -11.7 | O | M42_L03 | BLU-26_M13 | M75_A01 | ln131inv9 |
| 1214 | 757478.021 | 3638314.924 | 1 | 0.9797 | 0.07 | -129.7 | -88.5 | O | M42_J03 | BLU-26_M13 | 37mm_L09 | ln154inv13 |
| 1215 | 757441.809 | 3638480.797 | 1 | 0.98 | 0.41 | -26.8 | -81.9 | O | 81mm_M374_C02 | 2.75in_M230_L10 | 60mm_M49A3_K11 | ln324inv23 |
| 1216 | 757598.862 | 3638413.748 | 1 | 0.9803 | 0.18 | 88.2 | 2 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln250inv8 |
| 1217 | 757497.916 | 3638280.867 | 1 | 0.9819 | 0.39 | 31.6 | -74.1 | O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln119inv15 |
| 1218 | 757577.51 | 3638273.13 | 1 | 0.982 | 0.05 | 163.2 | -87.6 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln108_0129 |
| 1219 | 757435.582 | 3638220.073 | 1 | 0.982 | 0.54 | -58 | -75.9 | O | 81mm_M374_C02 | 2.75in_M230_M10 | 105mm_M456_Heat_B06 | ln074inv119 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1220 | 757501.852 | 3638418.717 | 1 | 0.9825 | 0.07 | -152.3 | -67.5 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln259inv15 |
| 1221 | 757516.134 | 3638273.032 | 1 | 0.9825 | 0.24 | 109.6 | -8.5 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln110inv5 |
| 1222 | 757455.725 | 3638284.928 | 1 | 0.9831 | 0.26 | 89.8 | -45.7 | O | 105mm_M456_Heat_J06 | 105mm_M60_F05 | 81mm_M374_D02 | ln125inv9 |
| 1223 | 757439.871 | 3638239.964 | 1 | 0.9838 | 0.32 | -117.2 | -81.7 | O | M42_L03 | BLU-26_M13 | 37mm_H09 | ln94inv8 |
| 1224 | 757614.446 | 3638324.502 | 1 | 0.9842 | 0.2 | -97 | -44.9 | O | 2.75in_M230_L10 | 81mm_M374_pit | 105mm_M456_Heat_B06 | ln159inv27 |
| 1225 | 757586.126 | 3638330.729 | 1 | 0.9845 | 0.04 | -83.8 | -47.8 | O | M42_I03 | BLU-26_M13 | 37mm_H09 | ln166inv2 |
| 1226 | 757437.87 | 3638297.28 | 1 | 0.985 | 0.08 | 46.5 | -10 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_pit | ln138inv19 |
| 1227 | 757611.24 | 3638356.541 | 1 | 0.985 | 0.21 | 172.3 | -2.5 | O | 105mm_M60_J05 | 105mm_M456_Heat_J06 | 155mm_M483A1_J04 | ln192inv3 |
| 1228 | 757446.168 | 3638384.84 | 1 | 0.9852 | 0.18 | -91.6 | 32.3 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln227in9 |
| 1229 | 757614.9 | 3638422.923 | 1 | 0.9855 | 3.13 | 2.8 | -21.8 | O | 155mm_M483A1_D04 | 105mm_M60_F05 | 2.75in_M230_J10 | ln257_1762 |
| 1230 | 757586.515 | 3638326.53 | 1 | 0.9855 | 0 | -169.3 | -66.1 | O | 40mm_M385_J14 | 20mm_M55_I15 | MK118_Rockeye_M01 | ln162_0421 |
| 1231 | 757540.129 | 3638202.81 | 1 | 0.9864 | 0.71 | 151.8 | -70.6 | O | 81mm_M374_pit | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln55inv15 |
| 1232 | 757474.067 | 3638236.558 | 1 | 0.9865 | 0.09 | -143 | -0.8 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln90inv11 |
| 1233 | 757511.64 | 3638252.265 | 1 | 0.9866 | 0.39 | 171.7 | -79.1 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | line106inv8 |
| 1234 | 757510.27 | 3638356.759 | 1 | 0.9867 | 0.6 | 46.1 | 10.4 | O | 105mm_M60_B05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln196inv14 |
| 1235 | 757437.944 | 3638400.207 | 1 | 0.9868 | 0.81 | -83.8 | -62.3 | O | 105mm_M456_Heat_pit | 105mm_M60_B05 | 155mm_M483A1_J04 | ln243inv10 |
| 1236 | 757590.212 | 3638429.27 | 1 | 0.9871 | 0.23 | 108.3 | -0.4 | O | 60mm_M49A3_pit | 2.75in_M230_M10 | 81mm_M374_C02 | ln266inv8 |
| 1237 | 757516.197 | 3638285.023 | 1 | 0.9871 | 0.24 | -162.2 | -5.6 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln122inv5 |
| 1238 | 757442.296 | 3638392.917 | 1 | 0.9872 | 0.06 | -70.5 | 24 | O | 60mm_M49A3_pit | 2.75in_M230_M10 | 81mm_M374_C02 | ln235inv6 |
| 1239 | 757552.37 | 3638478.656 | 1 | 0.9873 | 0.02 | 119.4 | -82.3 | O | 81mm_M374_C02 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln318inv8 |
| 1240 | 757565.084 | 3638386.742 | 1 | 0.9876 | 0.27 | -65 | 0.3 | O | 105mm_M60_J05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln225_1155 |
| 1241 | 757548.206 | 3638292.195 | 1 | 0.9876 | 0.01 | 103.3 | -48 | O | M42_L03 | BLU-26_M13 | 37mm_L09 | ln128inv4 |
| 1242 | 757432.548 | 3638290.663 | 0.99999 | 0.9877 | 0.65 | 81.3 | 11.5 | O | 81mm_M374_C02 | 60mm_M49A3_K11 | 2.75in_M230_M10 | ln132inv21 |
| 1243 | 757541.967 | 3638314.764 | 1 | 0.9877 | 0.27 | -76.6 | 7.2 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln151inv16 |
| 1244 | 757591.24 | 3638425.036 | 1 | 0.9879 | 0.2 | -154 | 1.7 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln262inv11 |
| 1245 | 757518.006 | 3638269.087 | 1 | 0.988 | 0.25 | -160.3 | -11.2 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln106inv3 |
| 1246 | 757476.009 | 3638219.578 | 1 | 0.9882 | 0.07 | -9.4 | -16.6 | O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln073inv104 |
| 1247 | 757497.737 | 3638297.286 | 1 | 0.9882 | 0.09 | -45.7 | -8.2 | O | BLU-26_L13 | 57mm_M86_M12 | 40mm_MKII_E03 | ln135inv10 |
| 1248 | 757525.041 | 3638250.776 | 1 | 0.9884 | 0.73 | -136.1 | -37.6 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln104inv12 |
| 1249 | 757445.495 | 3638217.682 | 1 | 0.9884 | 0.11 | 16.2 | -13.8 | O | 81mm_M374_C02 | 105mm_M456_Heat_J06 | 105mm_M60_L05 | ln071inv61 |
| 1250 | 757523.227 | 3638410.4 | 1 | 0.9887 | 0 | 120.8 | -2.8 | O | BDU-28_K02 | MK118_Rockeye_M01 | 40mm_M385_M14 | ln250_0645 |
| 1251 | 757539.532 | 3638244.262 | 1 | 0.9892 | 0.13 | -134.3 | -66 | O | 57mm_M86_pit | M75_C01 | 2.75in_M230_M10 | ln98inv12 |
| 1252 | 757450.871 | 3638391.558 | 0.99994 | 0.9892 | 0.95 | 36.8 | -68.1 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln234inv30 |
| 1253 | 757485.038 | 3638319.864 | 1 | 0.9896 | 0.01 | 45 | -85.8 | O | M75_B01 | 57mm_M86_L12 | 40mm_MKII_E03 | ln159inv14 |
| 1254 | 757525.24 | 3638291.019 | 1 | 0.9897 | 0.24 | 112.1 | -5.8 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln128_0458 |
| 1255 | 757513.555 | 3638256.355 | 1 | 0.99 | 0.26 | 2.1 | -0.8 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln110inv5 |
| 1256 | 757503.869 | 3638440.939 | 1 | 0.99 | 0.18 | 61.5 | 29.3 | O | 105mm_M60_D05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln282inv26 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1257 | 757467.932 | 3638304.744 | 1 | 0.9903 | 0.09 | 63 | -47.2 | O | 20mm_M55_M15 | 57mm_M86_L12 | M42_K03 | ln144inv25 |
| 1258 | 757446.905 | 3638241.199 | 1 | 0.9905 | 0.49 | 94 | -68.8 | O | 81mm_M374_E02 | 2.75in_M230_M10 | 105mm_M60_L05 | ln95inv9 |
| 1259 | 757434.757 | 3638272.233 | 1 | 0.9909 | 0.77 | 51.2 | -60 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln113inv2 |
| 1260 | 757564.185 | 3638314.707 | 0.99627 | 0.991 | 0.31 | -119.1 | -81 | O | MK118_Rockeye_K01 | BDU-28_H02 | 40mm_M385_I14 | ln1501inv47 |
| 1261 | 757539.584 | 3638285.418 | 1 | 0.9912 | 0.54 | -177.7 | -67.4 | O | 105mm_M456_Heat_pit | 105mm_M60_B05 | 155mm_M483A1_J04 | ln122inv3 |
| 1262 | 757554.131 | 3638503.581 | 1 | 0.9915 | 0.47 | -23.7 | 60.8 | O | MK118_Rockeye_L01 | BDU-28_J02 | BLU-26_J13 | ln343_1082 |
| 1263 | 757476.055 | 3638224.787 | 1 | 0.9917 | 0.24 | 56 | -13 | O | 155mm_M483A1_J04 | 105mm_M60_J05 | 105mm_M456_Heat_J06 | ln78inv8 |
| 1264 | 757513.823 | 3638333.009 | 1 | 0.992 | 0.25 | 7 | -0.8 | O | 60mm_M49A3_pit | 2.75in_M230_M10 | 81mm_M374_C02 | ln171inv20 |
| 1265 | 757526.112 | 3638265.538 | 1 | 0.9921 | 0.78 | 96.4 | -66.7 | O | 105mm_M456_Heat_pit | 105mm_M60_B05 | 155mm_M483A1_J04 | ln103inv7 |
| 1266 | 757605.732 | 3638358.872 | 1 | 0.9922 | 0.51 | 10.6 | -80.9 | O | 81mm_M374_C02 | 2.75in_M230_M10 | 60mm_M49A3_K11 | ln194inv2 |
| 1267 | 757540.104 | 3638442.713 | 1 | 0.9922 | 0.4 | 158.2 | 3.3 | O | 81mm_M374_pit | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln282inv20 |
| 1268 | 757593.731 | 3638498.378 | 1 | 0.9923 | 0.21 | -56.1 | -14.4 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_J04 | ln337inv36 |
| 1269 | 757611.999 | 3638313.932 | 0.9896 | 0.9925 | 0 | 108.3 | -3.2 | O | 40mm_M385_J14 | M42_K03 | 20mm_M55_I15 | ln148inv1 |
| 1270 | 757543.474 | 3638487.439 | 1 | 0.9931 | 0.19 | 140.4 | -73.5 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln327inv9 |
| 1271 | 757592.185 | 3638310.972 | 1 | 0.9934 | 0.57 | 122.3 | -15.6 | O | 105mm_M60_B05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln146inv15 |
| 1272 | 757533.337 | 3638291.995 | 1 | 0.9936 | 0.11 | -115.6 | -86.7 | O | M42_I03 | BLU-26_M13 | 37mm_H09 | ln129inv9 |
| 1273 | 757481.591 | 3638184.254 | 1 | 0.9936 | 0.08 | -128.9 | 12.9 | O | 40mm_MKII_E03 | 57mm_M86_M12 | M75_C01 | ln37inv15 |
| 1274 | 757504.922 | 3638294.502 | 1 | 0.9937 | 0.28 | -173.5 | 31.1 | O | 155mm_M483A1_L04 | 2.75in_M230_J10 | 105mm_M60_J05 | ln132inv8 |
| 1275 | 757453.85 | 3638434.906 | 1 | 0.994 | 0.26 | -20.8 | -54.6 | O | 105mm_M456_Heat_J06 | 105mm_M60_F05 | 81mm_M374_F02 | ln277inv12 |
| 1276 | 757473.05 | 3638222.658 | 1 | 0.9941 | 0.19 | 153.5 | -76.4 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln77_0676 |
| 1277 | 757453.898 | 3638396.967 | 1 | 0.9943 | 0.23 | 37.8 | -45.2 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln239inv13 |
| 1278 | 757456.997 | 3638263.35 | 1 | 0.9944 | 0.37 | -110.6 | -73.4 | O | 105mm_M456_Heat_pit | 105mm_M60_B05 | 155mm_M483A1_J04 | ln103inv1 |
| 1279 | 757489.273 | 3638216.117 | 1 | 0.9944 | 0.69 | -12.3 | -12.3 | O | 105mm_M60_B05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln069inv37 |
| 1280 | 757563.484 | 3638361.13 | 1 | 0.9945 | 0.2 | 171.1 | -13.8 | O | 60mm_M49A3_L11 | 2.75in_M230_K10 | 57mm_M86_L12 | ln198inv5 |
| 1281 | 757545.266 | 3638240.248 | 1 | 0.9945 | 1.2 | -41.4 | -54.1 | O | 105mm_M456_Heat_D06 | 105mm_M60_B05 | 155mm_M483A1_J04 | ln94inv3 |
| 1282 | 757427.187 | 3638310.163 | 1 | 0.9946 | 0.11 | -130.9 | -1.2 | O | 105mm_M60_J05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln151inv7 |
| 1283 | 757579.527 | 3638436.277 | 1 | 0.9946 | 0.56 | -136.6 | -63.6 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln274inv6 |
| 1284 | 757432.028 | 3638231.16 | 1 | 0.9947 | 0.09 | 62.7 | -47.8 | O | M42_K03 | BLU-26_M13 | M75_D01 | ln85inv46 |
| 1285 | 757513.743 | 3638337.344 | 0.98969 | 0.9947 | 0.32 | -63.8 | -83.8 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln176inv2 |
| 1286 | 757492.926 | 3638453.954 | 1 | 0.9948 | 0.11 | 54 | -83 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln296_2inv5 |
| 1287 | 757580.66 | 3638264.573 | 1 | 0.9949 | 0.13 | -35 | 18.9 | O | BLU-26_L13 | 57mm_M86_M12 | M75_C01 | ln103inv16 |
| 1288 | 757441.799 | 3638176.217 | 1 | 0.9949 | 0.2 | 45 | -36.1 | O | 57mm_M86_pit | M75_C01 | 2.75in_M230_M10 | ln29inv15 |
| 1289 | 757556.049 | 3638284.731 | 1 | 0.9951 | 0.24 | -103.8 | -74.3 | O | 57mm_M86_M12 | M75_C01 | 2.75in_M230_M10 | ln120inv5 |
| 1290 | 757438.108 | 3638390.682 | 1 | 0.9952 | 0.11 | -85.6 | -19.1 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln233inv6 |
| 1291 | 757594.648 | 3638390.638 | 1 | 0.9952 | 0.66 | 116 | -59.8 | O | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln227in42 |
| 1292 | 757521.834 | 3638306.798 | 1 | 0.9953 | 0.21 | 87.5 | -6.1 | O | 60mm_M49A3_pit | 2.75in_M230_M10 | 81mm_M374_C02 | ln144inv16 |
| 1293 | 757447.806 | 3638395.037 | 1 | 0.9954 | 0.05 | -85.6 | 39.3 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln237inv9 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1294 | 757449.01 | 3638426.343 | 1 | 0.9955 | 0.07 | 109.7 | -50.6 | O | BLU-26_L13 | 40mm_MKII_E03 | 57mm_M86_M12 | ln269inv8 |
| 1295 | 757533.031 | 3638230.964 | 1 | 0.9959 | 0.12 | -6.5 | -84.3 | O | M42_K03 | 57mm_M86_L12 | 40mm_MKII_F03 | ln84inv39 |
| 1296 | 757431.281 | 3638254.899 | 1 | 0.9961 | 1.06 | 107.9 | -2.5 | O | 105mm_M456_Heat_H06 | 105mm_M60_H05 | 155mm_M483A1_J04 | ln109inv15 |
| 1297 | 757591.241 | 3638431.824 | 1 | 0.9962 | 0.23 | 16.1 | -8.8 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln269inv22 |
| 1298 | 757539.369 | 3638349.83 | 1 | 0.9962 | 0.09 | -97.6 | -31.6 | O | 60mm_M49A3_L11 | 2.75in_M230_K10 | 57mm_M86_L12 | ln187inv9 |
| 1299 | 757428.9 | 3638235.77 | 1 | 0.9963 | 0.11 | 38.4 | -65 | O | BLU-26_L13 | 57mm_M86_M12 | M75_C01 | ln90inv14 |
| 1300 | 757607.274 | 3638424.061 | 1 | 0.9963 | 0.18 | 109.3 | -75.7 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln260inv12 |
| 1301 | 757432.927 | 3638226.505 | 1 | 0.9964 | 0.33 | 52.8 | -83.5 | O | M42_I03 | BLU-26_M13 | 37mm_L09 | ln80inv14 |
| 1302 | 757580.409 | 3638263.923 | 1 | 0.9964 | 0.15 | 62.5 | 16.5 | O | BLU-26_L13 | 57mm_M86_M12 | 40mm_MKII_E03 | ln120inv8 |
| 1303 | 757453.34 | 3638238.158 | 1 | 0.9964 | 0.15 | -172.3 | -44.1 | O | BLU-26_L13 | 57mm_M86_M12 | M75_pit | ln92inv12 |
| 1304 | 757566.082 | 3638288.716 | 1 | 0.9964 | 0.33 | 174 | -19.2 | O | 105mm_M60_J05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln124inv3 |
| 1305 | 757515.864 | 3638274.961 | 1 | 0.9965 | 0.22 | -170.4 | 3.3 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln112inv3 |
| 1306 | 757456.345 | 3638382.761 | 1 | 0.9967 | 0.01 | -122.1 | 22.2 | O | 57mm_M86_L12 | M42_K03 | 20mm_M55_I15 | ln225_0343 |
| 1307 | 757587.094 | 3638430.088 | 1 | 0.9969 | 0.48 | -131.9 | -42.8 | O | 81mm_M374_C02 | 105mm_M456_Heat_B06 | 2.75in_M230_L10 | ln267inv14 |
| 1308 | 757428.787 | 3638239.181 | 1 | 0.9969 | 0.49 | -20.9 | -78.3 | O | 2.75in_M230_K10 | 81mm_M374_pit | 105mm_M60_L05 | ln93inv6 |
| 1309 | 757429.546 | 3638276.104 | 0.99808 | 0.9969 | 0 | -127.1 | 3.9 | O | M42_I03 | 40mm_MKII_E03 | MK118_Rockeye_M01 | ln117_0099 |
| 1310 | 757623.572 | 3638422.914 | 0.99608 | 0.9971 | 0.01 | -21.7 | -16.3 | O | BLU-26_L13 | BDU-28_K02 | 2.75in_M230_M10 | ln258_0009 |
| 1311 | 757444.846 | 3638172.974 | 1 | 0.9971 | 0.23 | 65.8 | -3.9 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 81mm_M374_D02 | ln26inv31 |
| 1312 | 757418.305 | 3638446.029 | 1 | 0.9971 | 0.03 | 71.9 | -73.1 | O | BLU-26_L13 | 40mm_MKII_E03 | 57mm_M86_M12 | ln290inv20 |
| 1313 | 757531.807 | 3638481.04 | 1 | 0.9971 | 0.14 | -88.5 | 13.7 | O | 20mm_M55_I15 | 40mm_M385_I14 | BDU-28_I02 | ln321_0538 |
| 1314 | 757502.443 | 3638264.789 | 1 | 0.9971 | 0.27 | -84.1 | -60.7 | O | M75_B01 | 57mm_M86_M12 | 40mm_MKII_E03 | ln103_0290 |
| 1315 | 757545.353 | 3638384.358 | 1 | 0.9972 | 0.22 | -45.8 | -9.2 | O | 155mm_M483A1_H04 | 2.75in_M230_K10 | 105mm_M60_F05 | ln223inv10 |
| 1316 | 757522.454 | 3638440.171 | 1 | 0.9972 | 0.21 | -143 | 3 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln280inv21 |
| 1317 | 757435.087 | 3638485.511 | 1 | 0.9973 | 0 | -44.4 | -0.2 | O | M42_L03 | M75_D01 | 57mm_M86_L12 | line329inv10 |
| 1318 | 757523.322 | 3638349.038 | 1 | 0.9973 | 0.69 | 104.7 | -65.3 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln186inv10 |
| 1319 | 757609.752 | 3638372.513 | 1 | 0.9974 | 0.44 | 74.1 | 22.7 | O | 155mm_M483A1_F04 | 105mm_M60_H05 | 105mm_M456_Heat_B06 | ln208inv2 |
| 1320 | 757443.373 | 3638362.973 | 1 | 0.9974 | 0.16 | -139.9 | -7.5 | O | 57mm_M86_M12 | 40mm_MKII_E03 | BLU-26_L13 | ln204inv19 |
| 1321 | 757459.827 | 3638446.738 | 1 | 0.9974 | 0.39 | 143.2 | -42.3 | O | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | 105mm_M60_H05 | ln289inv9 |
| 1322 | 757574.99 | 3638428.6 | 1 | 0.9974 | 0.03 | 26.6 | -7.8 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln267inv12 |
| 1323 | 757421.951 | 3638408.517 | 1 | 0.9975 | 0 | 131.3 | -9.5 | O | M42_K03 | 37mm_I09 | 40mm_MKII_F03 | ln252inv27 |
| 1324 | 757574.685 | 3638448.157 | 1 | 0.9975 | 0.17 | 49.7 | -9 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln286inv5 |
| 1325 | 757615.527 | 3638478.559 | 0.99998 | 0.9975 | 1.78 | 58 | 26.5 | O | 155mm_M483A1_H04 | 105mm_M60_D05 | 105mm_M456_Heat_D06 | ln316_0014 |
| 1326 | 757484.727 | 3638384.555 | 1 | 0.9976 | 0.08 | -108.9 | 4.2 | O | 2.75in_M230_K10 | 155mm_M483A1_H04 | 105mm_M60_B05 | ln225inv22 |
| 1327 | 757553.537 | 3638471.638 | 1 | 0.9976 | 0.58 | 99.8 | 4.6 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln312inv15 |
| 1328 | 757491.944 | 3638232.687 | 1 | 0.9976 | 0.62 | 178 | -74.1 | O | 105mm_M456_Heat_B06 | 105mm_M60_B05 | 155mm_M483A1_J04 | ln86inv52 |
| 1329 | 757541.577 | 3638254.295 | 1 | 0.9977 | 0.43 | -57.7 | 32.1 | O | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | 105mm_M60_H05 | ln108inv10 |
| 1330 | 757487.069 | 3638225.724 | 1 | 0.9978 | 0.18 | -30 | -36.8 | O | M42_J03 | BLU-26_M13 | M75_C01 | ln79bgWE10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1331 | 757592.438 | 3638416.952 | 1 | 0.9978 | 0.23 | -165.6 | 3 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln254_0229 |
| 1332 | 757437.771 | 3638386.399 | 1 | 0.9979 | 0.13 | -34 | 32.1 | O | 2.75in_M230_pit | 155mm_M483A1_H04 | 105mm_M456_Heat_B06 | ln229inv5 |
| 1333 | 757581.843 | 3638482.37 | 1 | 0.998 | 0.6 | -122.1 | 19.1 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln321inv26 |
| 1334 | 757455.513 | 3638412.624 | 1 | 0.998 | 0.13 | 34.7 | 1.9 | O | BLU-26_L13 | 57mm_M86_M12 | 40mm_MKII_E03 | ln255inv5 |
| 1335 | 757443.775 | 3638392.551 | 1 | 0.998 | 0.14 | -94.4 | -77.3 | O | 60mm_M49A3_F10 | 2.75in_M230_M10 | 81mm_M374_pit | ln235inv10 |
| 1336 | 757555.726 | 3638388.831 | 0.99971 | 0.998 | 0.65 | -115.1 | -51.2 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln227in31 |
| 1337 | 757436.76 | 3638260.134 | 1 | 0.998 | 0.05 | 66 | 3.3 | O | 155mm_M483A1_F04 | 105mm_M60_J05 | 105mm_M456_Heat_B06 | ln103_1132 |
| 1338 | 757482.017 | 3638478.688 | 1 | 0.998 | 0.62 | 117 | -45.8 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln320inv10 |
| 1339 | 757450.02 | 3638414.545 | 1 | 0.998 | 0.26 | 36.5 | 19.9 | O | 105mm_M60_J05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln257inv7 |
| 1340 | 757567.644 | 3638494.353 | 1 | 0.998 | 0.12 | -2.7 | -49.8 | O | 2.75in_M230_L10 | 81mm_M374_pit | 105mm_M456_Heat_B06 | ln333inv10 |
| 1341 | 757606.514 | 3638417.252 | 1 | 0.9981 | 0.21 | 97 | -8.1 | O | 60mm_M49A3_K11 | 81mm_M374_C02 | 2.75in_M230_M10 | ln254inv9 |
| 1342 | 757448.368 | 3638238.717 | 1 | 0.9981 | 0.1 | 145.9 | -19.9 | O | M42_L03 | BLU-26_M13 | 37mm_H09 | ln92inv13 |
| 1343 | 757456.183 | 3638275.412 | 1 | 0.9981 | 0.33 | -13.9 | -19.1 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln115inv11 |
| 1344 | 757491.245 | 3638362.775 | 1 | 0.9981 | 0 | -19.7 | 5.2 | O | M42_K03 | M75_D01 | BLU-26_M13 | ln203_0599 |
| 1345 | 757436.796 | 3638159.392 | 1 | 0.9981 | 0.12 | 75.8 | 2.8 | O | M75_B01 | BDU-28_I02 | 40mm_MKII_E03 | ln12inv18 |
| 1346 | 757589.371 | 3638445.581 | 1 | 0.9982 | 0.42 | -11.7 | -29.6 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln283inv14 |
| 1347 | 757606.056 | 3638353.007 | 1 | 0.9982 | 0.42 | 23.6 | -77 | O | 2.75in_M230_M10 | 105mm_M60_B05 | 155mm_M483A1_H04 | ln188inv5 |
| 1348 | 757449.824 | 3638288.028 | 0.99999 | 0.9982 | 0.49 | 133.3 | -81.8 | O | 60mm_M49A3_L11 | 57mm_M86_L12 | 2.75in_M230_M10 | ln128inv17 |
| 1349 | 757504.117 | 3638464.669 | 1 | 0.9983 | 0.17 | -170.2 | -26.3 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M456_Heat_B06 | ln306inv10 |
| 1350 | 757551.615 | 3638258.51 | 1 | 0.9984 | 0.81 | 88.7 | -28.7 | O | 105mm_M456_Heat_D06 | 105mm_M60_B05 | 155mm_M483A1_J04 | ln113inv14 |
| 1351 | 757509.701 | 3638427.99 | 1 | 0.9984 | 0.46 | -137.2 | -66.5 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln268inv15 |
| 1352 | 757585.02 | 3638452.161 | 1 | 0.9984 | 0.31 | 59.5 | 4.6 | O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_J04 | ln290inv8 |
| 1353 | 757591.572 | 3638471.827 | 1 | 0.9985 | 0.22 | 144.1 | 33.2 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln310inv2 |
| 1354 | 757468.239 | 3638400.968 | 0.99998 | 0.9985 | 0 | 54.7 | -3.5 | O | 40mm_M385_I14 | MK118_Rockeye_M01 | BDU-28_I02 | ln242inv11 |
| 1355 | 757469.148 | 3638384.625 | 1 | 0.9986 | 0 | -165 | -0.7 | O | 20mm_M55_M15 | 57mm_M86_L12 | M42_K03 | ln226inv26 |
| 1356 | 757590.451 | 3638435.665 | 1 | 0.9986 | 0.2 | 26.8 | -0.1 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln273inv10 |
| 1357 | 757583.397 | 3638286.326 | 1 | 0.9986 | 0.46 | 9.2 | -4.8 | O | 155mm_M483A1_F04 | 105mm_M60_J05 | 105mm_M456_Heat_B06 | ln121inv8 |
| 1358 | 757576.392 | 3638378.877 | 1 | 0.9987 | 0.38 | 48.7 | -79.5 | O | 105mm_M456_Heat_J06 | 105mm_M60_F05 | 81mm_M374_C02 | ln216inv4 |
| 1359 | 757567.192 | 3638274.86 | 1 | 0.9987 | 0.18 | 64.2 | -76.9 | O | M75_D01 | 37mm_L09 | M42_J03 | ln110_0173 |
| 1360 | 757588.553 | 3638303.8 | 0.99998 | 0.9988 | 0.21 | -57.2 | 24.9 | O | M42_J03 | BLU-26_M13 | 37mm_H09 | ln139_0754 |
| 1361 | 757421.681 | 3638421.956 | 1 | 0.9988 | 0.23 | -113.3 | -40.4 | O | 60mm_M49A3_F10 | 2.75in_M230_M10 | 81mm_M374_C02 | ln265inv4 |
| 1362 | 757568.166 | 3638451.02 | 1 | 0.9988 | 0.17 | -36.6 | -49.9 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 155mm_M483A1_J04 | ln290inv10 |
| 1363 | 757572.356 | 3638249.106 | 1 | 0.9988 | 0.64 | 2.5 | -80.1 | O | 81mm_M374_pit | 2.75in_M230_K10 | 105mm_M60_L05 | ln104inv16 |
| 1364 | 757468.051 | 3638256.693 | 1 | 0.9988 | 0.6 | -162.1 | -65.5 | O | 105mm_M60_B05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln111inv11 |
| 1365 | 757515.46 | 3638217.911 | 1 | 0.9988 | 0.17 | -10.5 | -36.9 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln071inv71 |
| 1366 | 757424.128 | 3638304.49 | 1 | 0.9988 | 0.15 | 60.2 | 34.2 | O | BLU-26_L13 | 57mm_M86_M12 | 40mm_MKII_E03 | ln146inv28 |
| 1367 | 757536.575 | 3638187.886 | 1 | 0.9989 | 0.16 | 112.8 | -13.5 | O | BLU-26_L13 | 57mm_M86_M12 | M75_C01 | ln40inv3 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1368 | 757567.139 | 3638260.415 | 1 | 0.9989 | 0.97 | 112.1 | 21.1 | O | 155mm_M483A1_F04 | 105mm_M60_B05 | 105mm_M456_Heat_B06 | ln115inv2 |
| 1369 | 757613.733 | 3638304.798 | 1 | 0.9989 | 0.38 | 50 | -25.3 | O | 105mm_M456_Heat_B06 | 105mm_M60_J05 | 81mm_M374_F02 | ln138inv6 |
| 1370 | 757467.556 | 3638422.016 | 1 | 0.9989 | 0.15 | 56.7 | -7.7 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M60_B05 | ln264inv5 |
| 1371 | 757594.185 | 3638318.673 | 1 | 0.999 | 0.14 | -10.1 | -83 | O | 60mm_M49A3_L11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln153inv15 |
| 1372 | 757454.311 | 3638418.628 | 1 | 0.999 | 0.08 | -85 | -79.8 | O | 81mm_M374_C02 | 57mm_M86_L12 | 2.75in_M230_M10 | ln261inv7 |
| 1373 | 757443.807 | 3638178.307 | 1 | 0.999 | 0.45 | 69.6 | -58.3 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_L12 | ln31inv8 |
| 1374 | 757496.243 | 3638275.209 | 1 | 0.999 | 0.28 | -74.5 | -51 | O | 60mm_M49A3_L11 | 2.75in_M230_K10 | 57mm_M86_L12 | ln113inv7 |
| 1375 | 757438.8 | 3638408.984 | 1 | 0.999 | 0.57 | 114.4 | -17.9 | O | 105mm_M60_J05 | 105mm_M456_Heat_J06 | 81mm_M374_F02 | ln252_1023 |
| 1376 | 757479.656 | 3638271.005 | 1 | 0.999 | 0.22 | 118.8 | -71.8 | O | M42_L03 | BLU-26_M13 | 37mm_H09 | ln110inv6 |
| 1377 | 757435.086 | 3638259.524 | 1 | 0.9991 | 0.12 | -123.4 | -9.2 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_pit | 105mm_M60_J05 | ln114inv6 |
| 1378 | 757433.784 | 3638210.184 | 1 | 0.9991 | 0.56 | 24.3 | -54.6 | O | 2.75in_M230_M10 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln64inv2 |
| 1379 | 757564.179 | 3638227.314 | 1 | 0.9991 | 0.53 | 41.8 | -68.3 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln81inv14 |
| 1380 | 757598.869 | 3638417.954 | 1 | 0.9991 | 0.36 | -50.7 | -70.4 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_H04 | ln254inv12 |
| 1381 | 757497.211 | 3638268.285 | 1 | 0.9991 | 0.25 | -148.2 | -72.2 | O | 60mm_M49A3_K11 | 57mm_M86_J12 | 2.75in_M230_M10 | ln106_0409 |
| 1382 | 757445.704 | 3638248.276 | 1 | 0.9991 | 0.35 | -42.7 | -19.4 | O | 105mm_M60_B05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln102inv1 |
| 1383 | 757593.515 | 3638268.479 | 1 | 0.9992 | 0.1 | 12.2 | -42.6 | O | BLU-26_L13 | 57mm_M86_M12 | M75_C01 | ln103inv4 |
| 1384 | 757435.395 | 3638176.287 | 1 | 0.9992 | 0.68 | -94.2 | 41.2 | O | 105mm_M456_Heat_pit | 105mm_M60_F05 | 155mm_M483A1_H04 | ln29inv13 |
| 1385 | 757584.577 | 3638286.44 | 1 | 0.9992 | 0.48 | -171.5 | 3.3 | O | 155mm_M483A1_F04 | 105mm_M456_Heat_B06 | 105mm_M60_B05 | ln122_0119 |
| 1386 | 757499.785 | 3638378.252 | 1 | 0.9992 | 0.21 | -19.5 | 37.4 | O | 2.75in_M230_pit | 155mm_M483A1_H04 | 105mm_M60_B05 | ln219inv22 |
| 1387 | 757608.442 | 3638416.924 | 1 | 0.9993 | 0.22 | 5.6 | -4.1 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln253inv18 |
| 1388 | 757565.924 | 3638386.761 | 1 | 0.9993 | 0.29 | 125.5 | -8.7 | O | 105mm_M60_B05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln224inv9 |
| 1389 | 757485.881 | 3638228.175 | 1 | 0.9994 | 0.12 | 157.1 | 23.1 | O | 20mm_M55_J15 | M42_pit | 57mm_M86_L12 | ln82inv23 |
| 1390 | 757549.334 | 3638218.145 | 1 | 0.9994 | 0.4 | -137.4 | -46.8 | O | 105mm_M456_Heat_D06 | 105mm_M60_B05 | 155mm_M483A1_J04 | ln071inv74 |
| 1391 | 757536.595 | 3638394.713 | 1 | 0.9994 | 0.56 | 111.7 | -77.1 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_H04 | ln234inv15 |
| 1392 | 757466.504 | 3638267.975 | 1 | 0.9994 | 0.35 | -46.2 | 6.4 | O | 2.75in_M230_pit | 155mm_M483A1_H04 | 105mm_M60_B05 | ln107inv10 |
| 1393 | 757440.367 | 3638400.872 | 1 | 0.9994 | 0.25 | -33.5 | -35.7 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_H04 | ln243inv13 |
| 1394 | 757512.152 | 3638452.759 | 1 | 0.9994 | 0.04 | -74.6 | -39.3 | O | 40mm_MKII_A03 | M75_A01 | BDU-28_pit | ln293inv9 |
| 1395 | 757551.474 | 3638264.493 | 1 | 0.9994 | 0.3 | 83.6 | 2.5 | O | 60mm_M49A3_pit | 2.75in_M230_M10 | 81mm_M374_C02 | ln120inv11 |
| 1396 | 757437.11 | 3638276.821 | 1 | 0.9995 | 0.42 | -13.2 | -77.4 | O | 57mm_M86_K12 | M75_C01 | 81mm_M374_C02 | ln118_0875 |
| 1397 | 757494.689 | 3638255.45 | 1 | 0.9995 | 0.12 | -143.5 | -46.9 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln109inv14 |
| 1398 | 757527.981 | 3638286.438 | 1 | 0.9995 | 0.04 | -12.5 | -47.6 | O | M42_I03 | BLU-26_M13 | 37mm_H09 | ln123inv14 |
| 1399 | 757439.166 | 3638187.43 | 1 | 0.9995 | 0.15 | 103.1 | -83.6 | O | 40mm_MKII_pit | 60mm_M49A3_K11 | M75_B01 | ln47inv60 |
| 1400 | 757558.715 | 3638503.428 | 1 | 0.9995 | 0.68 | -11.9 | -27.8 | O | MK118_Rockeye_L01 | BLU-26_J13 | 2.75in_M230_H10 | ln343_1191 |
| 1401 | 757432.142 | 3638438.76 | 1 | 0.9995 | 0.42 | -22 | -79.3 | O | 105mm_M456_Heat_F06 | 81mm_M374_C02 | 105mm_M60_J05 | ln282inv37 |
| 1402 | 757464.943 | 3638187.114 | 1 | 0.9995 | 0.22 | -164.4 | -75 | O | 20mm_M55_M15 | 57mm_M86_L12 | M42_K03 | ln40inv13 |
| 1403 | 757569.35 | 3638409.992 | 1 | 0.9995 | 0.44 | 156.1 | 22 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln248inv16 |
| 1404 | 757482.369 | 3638239.713 | 1 | 0.9995 | 0.11 | -103.2 | -6 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln93inv8 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1405 | 757519.958 | 3638281.013 | 1 | 0.9995 | 0.49 | 117.8 | -60.5 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln118_0466 |
| 1406 | 757528.979 | 3638229.785 | 1 | 0.9995 | 0.22 | 6.4 | -73 | O | BLU-26_L13 | 57mm_M86_M12 | 40mm_MKII_D03 | ln83inv36 |
| 1407 | 757461.565 | 3638264.822 | 1 | 0.9995 | 0.34 | 155.6 | 38.5 | O | 105mm_M456_Heat_B06 | 105mm_M60_J05 | 81mm_M374_F02 | ln304inv3 |
| 1408 | 757498.209 | 3638481.03 | 1 | 0.9996 | 0.22 | -158.8 | -16.6 | O | 2.75in_M230_M10 | 155mm_M483A1_H04 | 105mm_M60_B05 | ln322inv35 |
| 1409 | 757568.5 | 3638366.803 | 0.99992 | 0.9996 | 0.86 | 75.3 | -55.2 | O | 57mm_M86_K12 | M75_D01 | 60mm_M49A3_J11 | ln204_0472 |
| 1410 | 757424.347 | 3638203.329 | 1 | 0.9996 | 0.86 | -28.7 | 34 | O | 2.75in_M230_K10 | 155mm_M483A1_H04 | 105mm_M60_J05 | ln57inv29 |
| 1411 | 757462.041 | 3638400.824 | 1 | 0.9997 | 0.2 | 16.6 | -18.3 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln243inv16 |
| 1412 | 757558.127 | 3638452.553 | 1 | 0.9997 | 0.03 | 50.6 | 2.9 | O | 105mm_M60_L05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln292inv4 |
| 1413 | 757570.195 | 3638264.86 | 1 | 0.9997 | 0.03 | -122.5 | -4.6 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 81mm_M374_D02 | ln103inv14 |
| 1414 | 757518.883 | 3638180.545 | 1 | 0.9997 | 0.75 | 151.8 | -56.2 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 155mm_M483A1_J04 | ln31inv19 |
| 1415 | 757523.88 | 3638308.997 | 1 | 0.9997 | 0.48 | 88.4 | -1.7 | O | 105mm_M456_Heat_B06 | 105mm_M60_J05 | 155mm_M483A1_J04 | ln146inv24 |
| 1416 | 757597.94 | 3638398.761 | 0.99908 | 0.9997 | 0.81 | -179.9 | -51.7 | O | 81mm_M374_C02 | 2.75in_M230_L10 | 105mm_M456_Heat_B06 | ln235inv24 |
| 1417 | 757479.303 | 3638264.308 | 1 | 0.9997 | 0.17 | -17.6 | -63.3 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_pit | ln103inv2 |
| 1418 | 757577.974 | 3638472.718 | 1 | 0.9997 | 0.44 | 82.9 | -26.7 | O | 105mm_M60_B05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln312inv12 |
| 1419 | 757609.977 | 3638344.866 | 1 | 0.9997 | 0.21 | 31.1 | -56.9 | O | 81mm_M374_F02 | 105mm_M456_Heat_B06 | 105mm_M60_L05 | ln180inv2 |
| 1420 | 757524.314 | 3638236.717 | 1 | 0.9997 | 0.34 | -142.4 | -40.4 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_L12 | ln90inv8 |
| 1421 | 757539.464 | 3638293.043 | 0.99999 | 0.9997 | 0.18 | -133.1 | -32.3 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln129inv11 |
| 1422 | 757543.47 | 3638265.503 | 1 | 0.9997 | 0.28 | 4.2 | -35.5 | O | 57mm_M86_L12 | M75_D01 | 2.75in_M230_M10 | ln103_1608 |
| 1423 | 757459.453 | 3638188.507 | 1 | 0.9997 | 0.5 | 33.9 | 9.8 | O | 2.75in_M230_K10 | 105mm_M60_B05 | 155mm_M483A1_H04 | ln41inv35 |
| 1424 | 757487.799 | 3638466.563 | 1 | 0.9997 | 0.23 | -89.8 | 11.6 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_B06 | ln309inv10 |
| 1425 | 757476.651 | 3638509.205 | 0.98007 | 0.9997 | 0 | 62 | -16.3 | O | 60mm_M49A3_pit | MK118_Rockeye_I01 | 81mm_M374_A02 | ln350_1763 |
| 1426 | 757489.087 | 3638259.453 | 1 | 0.9998 | 0.25 | 97.5 | -75.1 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln114inv9 |
| 1427 | 757508.633 | 3638173.149 | 1 | 0.9998 | 1.01 | -178.5 | -35.1 | O | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | 105mm_M60_H05 | ln24inv13 |
| 1428 | 757497.765 | 3638436.572 | 1 | 0.9998 | 0.34 | -36.3 | -27 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln277inv17 |
| 1429 | 757490.372 | 3638444.975 | 1 | 0.9998 | 0.11 | 55.5 | -7.1 | O | 105mm_M60_J05 | 105mm_M456_Heat_B06 | 155mm_M483A1_H04 | ln286inv27 |
| 1430 | 757599.804 | 3638378.458 | 1 | 0.9998 | 0.46 | 49.8 | -82.6 | O | 105mm_M456_Heat_pit | 105mm_M60_J05 | 155mm_M483A1_J04 | ln215inv19 |
| 1431 | 757584.787 | 3638280.689 | 0.94544 | 0.9998 | 0.02 | 165.9 | -12.8 | O | BLU-26_M13 | 40mm_MKII_A03 | M75_A01 | ln118_0118 |
| 1432 | 757576.487 | 3638268.788 | 0.92157 | 0.9998 | 0.2 | -104.1 | -5.4 | O | 40mm_MKII_E03 | 37mm_M09 | 60mm_M49A3_K11 | ln103_0498 |
| 1433 | 757501.047 | 3638290.563 | 1 | 0.9999 | 0.02 | 150.4 | 19.8 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln128inv8 |
| 1434 | 757588.926 | 3638417.635 | 0.99999 | 0.9999 | 0.62 | 119 | -72.7 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln255inv10 |
| 1435 | 757447.552 | 3638230.392 | 1 | 0.9999 | 0.63 | -144.9 | 25.1 | O | 105mm_M456_Heat_D06 | 105mm_M60_L05 | 155mm_M483A1_J04 | ln84inv40 |
| 1436 | 757470.235 | 3638364.744 | 1 | 0.9999 | 0.59 | 121.9 | -47.6 | O | 105mm_M456_Heat_J06 | 105mm_M60_F05 | 81mm_M374_F02 | ln206inv25 |
| 1437 | 757518.11 | 3638462.992 | 1 | 0.9999 | 0.2 | 66.2 | -67.9 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln304inv8 |
| 1438 | 757527.804 | 3638476.354 | 1 | 0.9999 | 0.26 | -32.3 | -25.3 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln317inv23 |
| 1439 | 757479.298 | 3638359.449 | 1 | 0.9999 | 0.15 | 96.7 | -46.1 | O | 40mm_MKII_F03 | 37mm_M09 | 57mm_M86_L12 | ln199inv16 |
| 1440 | 757528.216 | 3638328.505 | 1 | 0.9999 | 0.23 | 155.4 | -10.7 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_pit | ln166inv11 |
| 1441 | 757521.785 | 3638194.155 | 1 | 0.9999 | 0.07 | 28.2 | -78.3 | O | 20mm_M55_M15 | 57mm_M86_L12 | M42_K03 | ln46inv40 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1442 | 757537.114 | 3638215.525 | 1 | 0.9999 | 0.06 | 14.6 | -76.6 | O | 20mm_M55_M15 | 57mm_M86_L12 | M42_K03 | ln068inv19 |
| 1443 | 757468.011 | 3638285.561 | 1 | 0.9999 | 0.14 | 142.6 | -43.2 | O | 105mm_M456_Heat_L06 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln125inv14 |
| 1444 | 757466.728 | 3638315.001 | 1 | 0.9999 | 0.14 | 164.8 | -66.4 | O | 57mm_M86_M12 | M75_B01 | 2.75in_M230_M10 | ln154_1046 |
| 1445 | 757491.021 | 3638381.407 | 1 | 0.9999 | 0.19 | -141.8 | 25.2 | O | 105mm_M456_Heat_B06 | 105mm_M60_J05 | 155mm_M483A1_J04 | ln222inv18 |
| 1446 | 757509.595 | 3638252.521 | 1 | 0.9999 | 0.35 | -97.7 | -8.5 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | line106inv7 |
| 1447 | 757449.097 | 3638275.202 | 1 | 1 | 0.81 | -88.8 | 8.3 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln115inv9 |
| 1448 | 757482.943 | 3638392.556 | 1 | 1 | 0 | -111.8 | 0.9 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_L02 | ln233inv16 |
| 1449 | 757435.463 | 3638260.031 | 1 | 1 | 0.09 | -37.6 | -31.1 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_J05 | ln103inv9 |
| 1450 | 757510.067 | 3638331.361 | 1 | 1 | 0.15 | 174 | -62.9 | O | M42_H03 | BLU-26_M13 | M75_D01 | ln168inv13 |
| 1451 | 757513.411 | 3638452.786 | 1 | 1 | 0.02 | 125.1 | 30.8 | O | 20mm_M55_J15 | M42_K03 | 57mm_M86_L12 | ln294X_0602 |
| 1452 | 757569.707 | 3638264.327 | 1 | 1 | 0.07 | 63.2 | -4.9 | O | 105mm_M456_Heat_B06 | 105mm_M60_L05 | 81mm_M374_D02 | ln120inv10 |
| 1453 | 757481.866 | 3638312.769 | 0.98675 | 1 | 0.17 | 101.5 | -30.1 | O | 40mm_M385_M14 | BDU-28_I02 | MK118_Rockeye_M01 | ln152inv40 |
| 1454 | 757564.707 | 3638274.795 | 1 | 1 | 0.12 | -75.1 | -85.3 | O | M42_I03 | BLU-26_M13 | 37mm_H09 | ln110_0198 |
| 1455 | 757486.594 | 3638362.381 | 1 | 1 | 0.32 | -162.9 | -73.8 | O | 40mm_MKII_D03 | 37mm_K09 | 57mm_M86_L12 | ln202inv16 |
| 1456 | 757574.297 | 3638283.453 | 1 | 1 | 0.19 | 141.4 | -72.9 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln119_1083 |
| 1457 | 757457.502 | 3638382.844 | 1 | 1 | 0.05 | 40.6 | -39.4 | O | 20mm_M55_L15 | 40mm_MKII_pit | M42_I03 | ln225inv18 |
| 1458 | 757500.022 | 3638306.647 | 0.98012 | 1 | 0.14 | -135.9 | -61.7 | O | 40mm_M385_M14 | BDU-28_I02 | MK118_Rockeye_M01 | ln145inv11 |
| 1459 | 757517.494 | 3638242.236 | 1 | 1 | 0.52 | 121.2 | -9.2 | O | 105mm_M456_Heat_D06 | 105mm_M60_L05 | 155mm_M483A1_J04 | ln96inv23 |
| 1460 | 757475.787 | 3638460.882 | 1 | 1 | 0.36 | -3 | 2.2 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_H04 | ln303inv9 |
| 1461 | 757477.599 | 3638474.693 | 1 | 1 | 0.21 | 127.8 | -86.2 | O | MK118_Rockeye_J01 | BDU-28_J02 | M75_B01 | ln317inv17 |
| 1462 | 757496.867 | 3638284.786 | 1 | 1 | 0.09 | 44.1 | 33.7 | O | 40mm_M385_M14 | MK118_Rockeye_M01 | BDU-28_I02 | ln123_0373 |
| 1463 | 757600.052 | 3638405.394 | 1 | 1 | 0.27 | -114.6 | -48.4 | O | 40mm_MKII_F03 | 37mm_M09 | 57mm_M86_L12 | ln242inv1 |
| 1464 | 757542.993 | 3638287.468 | 0.96262 | 1 | 0.11 | -162.1 | -9.4 | O | 40mm_MKII_A03 | M75_A01 | M42_J03 | ln124_0354 |
| 1465 | 757483.084 | 3638321.877 | 0.99858 | 1 | 1.09 | -54.3 | 31.5 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln161inv32 |
| 1466 | 757487.984 | 3638326.728 | 1 | 1 | 0.04 | -64.5 | -47.8 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln165inv21 |
| 1467 | 757528.311 | 3638265.653 | 1 | 1 | 0.81 | 89.1 | -55.8 | O | 155mm_M483A1_B04 | 105mm_M456_Heat_pit | 105mm_M60_B05 | ln103_0871 |
| 1468 | 757546.474 | 3638308.82 | 1 | 1 | 0.08 | 65.1 | -84.9 | O | M42_I03 | BLU-26_M13 | 37mm_H09 | ln145_0693 |
| 1469 | 757590.649 | 3638481.353 | 1 | 1 | 0.26 | 19.4 | -75 | O | 105mm_M60_B05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln320inv3 |
| 1470 | 757483.586 | 3638242.14 | 1 | 1 | 0.09 | 67.4 | -57.3 | O | 40mm_MKII_F03 | 37mm_M09 | 57mm_M86_L12 | ln96inv26 |
| 1471 | 757538.058 | 3638298.023 | 0.96792 | 1 | 0.33 | 92.8 | -84.7 | O | MK118_Rockeye_M01 | BDU-28_H02 | 40mm_MKII_E03 | ln135inv11 |
| 1472 | 757452.134 | 3638386.809 | 1 | 1 | 0.47 | 7.4 | 36.2 | O | 105mm_M456_Heat_L06 | 105mm_M60_L05 | 155mm_M483A1_H04 | ln229inv9 |
| 1473 | 757581.461 | 3638254.276 | 1 | 1 | 0.14 | -172.4 | -21.6 | O | 20mm_M55_J15 | 57mm_M86_L12 | M42_K03 | ln109inv12 |
| 1474 | 757533.781 | 3638233.102 | 1 | 1 | 0.18 | 88.6 | -55.5 | O | 105mm_M60_L05 | 105mm_M456_Heat_B06 | 155mm_M483A1_J04 | ln87inv10 |
| 1475 | 757551.728 | 3638435.011 | 1 | 1 | 0.15 | -61.8 | -77.8 | O | 40mm_MKII_F03 | 37mm_M09 | 57mm_M86_L12 | ln274inv10 |
| 1476 | 757608.843 | 3638407.042 | 1 | 1 | 0 | -43.7 | -10.3 | O | 57mm_M86_L12 | M42_K03 | 37mm_I09 | ln243_1822 |
| 1477 | 757493.106 | 3638301.026 | 1 | 1 | 0.21 | 170.4 | -74 | O | 105mm_M60_L05 | 155mm_M483A1_J04 | 105mm_M456_Heat_D06 | ln139_0358 |
| 1478 | 757469.63 | 3638195.3 | 1 | 1 | 0.11 | -93.2 | -51.4 | O | 20mm_M55_I15 | M42_K03 | 57mm_M86_L12 | ln48inv14 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1479 | 757488.825 | 3638193.63 | 1 | 1 | 0.15 | 92 | -54.6 | O | 40mm_MKII_F03 | 37mm_M09 | 57mm_M86_L12 | ln46inv43 |
| 1480 | 757473.305 | 3638250.684 | 1 | 1 | 0.35 | -60.5 | -54.9 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln105inv24 |
| 1481 | 757475.688 | 3638297.488 | 1 | 1 | 0.24 | 27.9 | -14.4 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_B06 | ln135inv23 |
| 1482 | 757594.343 | 3638290.354 | 1 | 1 | 0.02 | 44.2 | -83.5 | O | M42_L03 | BLU-26_M13 | M75_D01 | ln125inv18 |
| 1483 | 757419.856 | 3638153.342 | 1 | 1 | 0 | -41.3 | -0.5 | O | 2.75in_M230_H10 | 60mm_M49A3_pit | 57mm_M86_K12 | ln7inv63 |
| 1484 | 757475.751 | 3638285.143 | 1 | 1 | 0.62 | 129.1 | 32.5 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_H04 | ln124inv11 |
| 1485 | 757475.801 | 3638454.79 | 1 | 1 | 0.55 | -51.3 | -33.6 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln297inv15 |
| 1486 | 757592.049 | 3638481.375 | 1 | 1 | 0.25 | 27.6 | -72.9 | O | 105mm_M456_Heat_B06 | 105mm_M60_B05 | 155mm_M483A1_J04 | ln320_0146 |
| 1487 | 757596.616 | 3638493.601 | 1 | 1 | 0.58 | -6 | -80.8 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_J04 | ln332inv1 |
| 1488 | 757475.46 | 3638208.155 | 1 | 1 | 0.72 | 5.2 | 38.1 | O | 155mm_M483A1_F04 | 105mm_M60_H05 | 105mm_M456_Heat_B06 | ln61inv31 |
| 1489 | 757479.854 | 3638297.033 | 1 | 1 | 0.2 | 73.3 | -20.2 | O | 105mm_M456_Heat_H06 | 155mm_M483A1_H04 | 105mm_M60_L05 | ln136inv11 |
| 1490 | 757553.464 | 3638424.174 | 1 | 1 | 0.46 | 171.4 | -33.3 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln262_0697 |
| 1491 | 757610.306 | 3638418.332 | 1 | 1 | 0.29 | 67 | -6.4 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 81mm_M374_C02 | ln254inv3 |
| 1492 | 757624.777 | 3638358.015 | 1 | 1 | 0 | -74.3 | -80.4 | O | 60mm_M49A3_K11 | 57mm_M86_L12 | 40mm_MKII_A03 | ln193_1077 |
| 1493 | 757451.028 | 3638264.306 | 1 | 1 | 0.29 | -24.8 | -62.9 | O | 105mm_M456_Heat_pit | 105mm_M60_L05 | 155mm_M483A1_J04 | ln105_0124 |
| 1494 | 757463.54 | 3638215.775 | 1 | 1 | 0.56 | -24.4 | 3.2 | O | 60mm_M49A3_K11 | 2.75in_M230_M10 | 57mm_M86_J12 | ln069inv35 |
| 1495 | 757480.165 | 3638187.087 | 1 | 1 | 0.37 | 52.8 | -55.4 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_B06 | ln40inv10 |
| 1496 | 757431.608 | 3638341.173 | 1 | 1 | 0.04 | 74.9 | 28.6 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln182inv5 |
| 1497 | 757519.969 | 3638388.894 | 1 | 1 | 0.42 | 94.7 | -51 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_D06 | ln228_0975 |
| 1498 | 757523.472 | 3638256.172 | 0.99996 | 1 | 1.21 | -90.5 | 32.7 | O | 105mm_M456_Heat_D06 | 105mm_M60_J05 | 155mm_M483A1_J04 | ln110inv6 |
| 1499 | 757544.683 | 3638467.374 | 1 | 1 | 0.56 | -141.8 | 10.4 | O | 105mm_M456_Heat_D06 | 105mm_M60_L05 | 155mm_M483A1_L04 | ln308inv7 |
| 1500 | 757437.186 | 3638200.32 | 1 | 1 | 0.27 | -121.3 | -49.9 | O | 105mm_M60_L05 | 105mm_M456_Heat_D06 | 155mm_M483A1_H04 | ln54inv60 |
| 1501 | 757483.198 | 3638335.139 | 0.58413 | 1 | 0.18 | 32.5 | -82.8 | O | 57mm_M86_L12 | M75_D01 | 60mm_M49A3_K11 | ln175inv10 |
| 1502 | 757489.98 | 3638321.228 | 1 | 1 | 0.14 | 59.4 | -88.2 | O | 155mm_M483A1_H04 | 105mm_M60_L05 | 105mm_M456_Heat_H06 | ln160inv21 |
| 1503 | 757500.797 | 3638325.104 | 1 | 1 | 0.94 | 43.1 | 25.1 | O | 155mm_M483A1_J04 | 105mm_M60_L05 | 105mm_M456_Heat_D06 | ln163inv2 |
| 1504 | 757524.146 | 3638265.436 | 0.99997 | 1 | 0.74 | 40 | -77 | O | 105mm_M60_B05 | 155mm_M483A1_J04 | 105mm_M456_Heat_B06 | ln103_0353 |
| 1505 | 757528.973 | 3638223.032 | 1 | 1 | 1.42 | -109.4 | -28.7 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_D06 | ln77_1139 |
| 1506 | 757541.546 | 3638327.758 | 1 | 1 | 0.12 | 58.9 | -47.8 | O | 40mm_MKII_E03 | 37mm_M09 | 60mm_M49A3_K11 | ln165inv27 |
| 1507 | 757546.761 | 3638235.918 | 1 | 1 | 0.34 | 107.4 | -72.2 | O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln90inv7 |
| 1508 | 757552.795 | 3638191.378 | 1 | 1 | 0.01 | -35 | -35.1 | O | 155mm_M483A1_D04 | 105mm_M60_J05 | 105mm_M456_Heat_H06 | ln44_0005 |
| 1509 | 757571.497 | 3638309.03 | 1 | 1 | 0 | -20.6 | -69.5 | O | 40mm_MKII_E03 | BDU-28_I02 | MK118_Rockeye_M01 | ln144inv12 |
| 1510 | 757583.399 | 3638266.385 | 0.87288 | 1 | 0.26 | -1.1 | 32 | O | 57mm_M86_K12 | 81mm_M374_C02 | 2.75in_M230_M10 | ln103_1977 |
| 1511 | 757597.822 | 3638314.693 | 0.99992 | 1 | 0.15 | 41.5 | -61.3 | O | 20mm_M55_M15 | 57mm_M86_L12 | 37mm_I09 | ln149inv21 |
| 1512 | 757609.147 | 3638368.872 | 1 | 1 | 0.13 | 126.4 | -69.5 | O | 105mm_M456_Heat_L06 | 105mm_M60_H05 | 155mm_M483A1_H04 | ln205inv34 |
| 1513 | 757425.71 | 3638420.942 | 0.9998 | 1 | 1 | -169.9 | -72.3 | O | 105mm_M60_J05 | 105mm_M456_Heat_pit | 155mm_M483A1_H04 | ln264inv13 |
| 1514 | 757431.354 | 3638246.223 | 1 | 1 | 0.72 | 31.6 | -37.5 | O | 155mm_M483A1_L04 | 105mm_M60_H05 | 105mm_M456_Heat_B06 | ln100inv9 |
| 1515 | 757431.544 | 3638379.37 | 1 | 1 | 0.13 | -16.1 | -89.3 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln222inv25 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1516 | 757435.877 | 3638398.213 | 1 | 1 | 0.11 | -28.5 | -28.9 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln241inv13 |
| 1517 | 757438.142 | 3638223.213 | 0.00672 | 1 | 0.05 | 75.6 | 6.9 | O | 37mm_M09 | M42_J03 | 40mm_MKII_E03 | ln76inv22 |
| 1518 | 757438.2 | 3638195.866 | 0.99998 | 1 | 0.4 | -25.1 | -68.2 | O | MK118_Rockeye_K01 | BDU-28_H02 | 40mm_M385_I14 | ln49inv21 |
| 1519 | 757440.572 | 3638362.981 | 0.99998 | 1 | 0.16 | 18.1 | -52.4 | O | 40mm_M385_L14 | BDU-28_L02 | MK118_Rockeye_M01 | ln205inv9 |
| 1520 | 757443.882 | 3638426.726 | 1 | 1 | 0.6 | -53.9 | -40.8 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln269inv6 |
| 1521 | 757449.797 | 3638437.017 | 1 | 1 | 0.09 | -130.3 | 15.8 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln279inv5 |
| 1522 | 757449.935 | 3638216.515 | 1 | 1 | 0.89 | 97.5 | -19.2 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln070inv51 |
| 1523 | 757452.264 | 3638437.198 | 1 | 1 | 0.42 | -100.5 | -46.3 | O | 155mm_M483A1_L04 | 105mm_M60_L05 | 105mm_M456_Heat_B06 | ln280inv30 |
| 1524 | 757456.046 | 3638477.113 | 0.99999 | 1 | 0.21 | 176.5 | -49.1 | O | BDU-28_H02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln320inv15 |
| 1525 | 757465.306 | 3638254.497 | 1 | 1 | 0.65 | -40.5 | -23 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln108inv8 |
| 1526 | 757467.389 | 3638234.351 | 1 | 1 | 0.16 | -54.1 | -78.1 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln88inv17 |
| 1527 | 757467.813 | 3638264.834 | 1 | 1 | 0.13 | 105.9 | -9.6 | O | BDU-28_I02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln104data_inv2 |
| 1528 | 757467.849 | 3638450.803 | 0.99944 | 1 | 0.32 | 74.8 | -83.8 | O | MK118_Rockeye_M01 | BDU-28_H02 | 40mm_MKII_E03 | ln293_0288 |
| 1529 | 757468.234 | 3638382.538 | 1 | 1 | 0.07 | 113.4 | -70.8 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln224inv18 |
| 1530 | 757470.806 | 3638463.432 | 0.99995 | 1 | 0.27 | 27.4 | -82 | O | MK118_Rockeye_K01 | BDU-28_H02 | 40mm_MKII_E03 | ln306inv13 |
| 1531 | 757476.701 | 3638259.753 | 1 | 1 | 0.11 | 97.1 | -76.9 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln114inv8 |
| 1532 | 757482.125 | 3638385.273 | 1 | 1 | 0.3 | -137 | 11.9 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_D06 | ln226inv23 |
| 1533 | 757482.809 | 3638332.804 | 1 | 1 | 0.09 | 91.9 | -50.8 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln172inv11 |
| 1534 | 757483.402 | 3638232.197 | 1 | 1 | 0.13 | -169.7 | 22 | O | BDU-28_H02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln86inv53 |
| 1535 | 757485.843 | 3638491.856 | 0.9996 | 1 | 0.38 | 7.3 | -46.2 | O | MK118_Rockeye_pit | BDU-28_L02 | 40mm_MKII_E03 | ln333_0502 |
| 1536 | 757486.549 | 3638198.363 | 1 | 1 | 0.09 | -9.6 | -35.9 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln51inv43 |
| 1537 | 757486.715 | 3638491.889 | 0.99135 | 1 | 0.36 | 6.2 | -48.9 | O | MK118_Rockeye_M01 | BDU-28_L02 | 40mm_MKII_E03 | ln333inv3 |
| 1538 | 757486.943 | 3638339.122 | 1 | 1 | 0.26 | 176.7 | -14 | O | BDU-28_H02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln178inv7 |
| 1539 | 757487.614 | 3638332.525 | 1 | 1 | 0.05 | -3.9 | 43.1 | O | MK118_Rockeye_J01 | BDU-28_J02 | 40mm_MKII_E03 | ln171inv16 |
| 1540 | 757489.555 | 3638228.441 | 1 | 1 | 0.89 | 152.9 | -73.1 | O | 155mm_M483A1_H04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln82inv22 |
| 1541 | 757492.16 | 3638336.263 | 1 | 1 | 0.01 | 73.7 | -65.1 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln175inv12 |
| 1542 | 757492.78 | 3638364.904 | 1 | 1 | 0.06 | 161.7 | -82.7 | O | BDU-28_I02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln205inv22 |
| 1543 | 757492.945 | 3638333.699 | 0.99995 | 1 | 0.22 | -162.2 | -19.4 | O | BDU-28_L02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln172inv7 |
| 1544 | 757494.799 | 3638236.448 | 1 | 1 | 0.12 | 95.2 | 15.3 | O | BDU-28_I02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln90inv9 |
| 1545 | 757495.763 | 3638280.617 | 1 | 1 | 0.08 | 43.4 | -45.9 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln119inv12 |
| 1546 | 757496.473 | 3638326.286 | 1 | 1 | 0.13 | -25.6 | -19.6 | O | BDU-28_L02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln165inv25 |
| 1547 | 757496.896 | 3638188.107 | 0.99981 | 1 | 0.14 | 170.5 | -52.5 | O | 40mm_M385_I14 | BDU-28_I02 | MK118_Rockeye_M01 | ln41inv39 |
| 1548 | 757498.374 | 3638284.866 | 1 | 1 | 0.05 | -84 | 34.6 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln123inv13 |
| 1549 | 757498.414 | 3638306.522 | 0.9988 | 1 | 0.17 | 162.3 | -63.6 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln145_0441 |
| 1550 | 757498.57 | 3638217.153 | 0.99999 | 1 | 0.34 | -66.5 | -46.1 | O | MK118_Rockeye_L01 | BDU-28_L02 | 40mm_MKII_E03 | ln070inv43 |
| 1551 | 757499.467 | 3638191.908 | 1 | 1 | 0.2 | -169.9 | -4.8 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln44inv7 |
| 1552 | 757502.333 | 3638420.701 | 1 | 1 | 0.34 | -34.6 | 33 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln261inv10 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1553 | 757505.741 | 3638191.762 | 1 | 1 | 0.16 | -166.8 | 11.4 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln44inv6 |
| 1554 | 757506.086 | 3638451.021 | 1 | 1 | 0.15 | -69.5 | -80.9 | O | BDU-28_K02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln292inv9 |
| 1555 | 757507.02 | 3638247.189 | 1 | 1 | 0.17 | -165.3 | -20.4 | O | 40mm_M385_M14 | BDU-28_I02 | MK118_Rockeye_M01 | ln101inv19 |
| 1556 | 757511.237 | 3638242.466 | 1 | 1 | 1.28 | 93.8 | -74.9 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_D06 | ln96inv24 |
| 1557 | 757514.13 | 3638350.836 | 1 | 1 | 0.33 | 11.3 | -13.6 | O | 155mm_M483A1_L04 | 105mm_M60_H05 | 105mm_M456_Heat_H06 | ln189inv10 |
| 1558 | 757520.206 | 3638330.612 | 1 | 1 | 0.77 | -170.7 | -39.1 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln168inv11 |
| 1559 | 757522.207 | 3638272.515 | 0.99999 | 1 | 0.08 | 128.1 | -40.5 | O | MK118_Rockeye_K01 | 40mm_M385_L14 | BDU-28_H02 | ln111_0482 |
| 1560 | 757523.364 | 3638297.124 | 1 | 1 | 0 | 124.6 | 39 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln134inv7 |
| 1561 | 757523.698 | 3638194.508 | 1 | 1 | 0.93 | -38 | -61.6 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln46inv38 |
| 1562 | 757523.765 | 3638206.055 | 1 | 1 | 0.92 | -63.2 | -48.2 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_D06 | ln58inv36 |
| 1563 | 757524.197 | 3638272.639 | 0.99999 | 1 | 0.07 | -57.1 | -35.3 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln111_0497 |
| 1564 | 757525.294 | 3638161.682 | 1 | 1 | 0.17 | 128.9 | -47.9 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln12inv12 |
| 1565 | 757525.636 | 3638154.739 | 0.02092 | 1 | 0.26 | 42.8 | -85.6 | O | 40mm_M385_L14 | BDU-28_I02 | M42_K03 | ln5inv49 |
| 1566 | 757525.952 | 3638163.829 | 0.08298 | 1 | 0.59 | 81.1 | -74.9 | O | 81mm_M374_F02 | 2.75in_M230_M10 | 57mm_M86_M12 | ln14inv46 |
| 1567 | 757525.984 | 3638167.772 | 1 | 1 | 0.14 | -30.6 | -48.5 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln18inv27 |
| 1568 | 757528.202 | 3638343.242 | 1 | 1 | 0.19 | -113.1 | -78.5 | O | MK118_Rockeye_M01 | BDU-28_H02 | 40mm_MKII_E03 | ln181inv1 |
| 1569 | 757528.919 | 3638251.599 | 1 | 1 | 0.05 | -131 | -61.3 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln105inv22 |
| 1570 | 757529.328 | 3638204.298 | 1 | 1 | 0.12 | -115.1 | -13.9 | O | BDU-28_H02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln57inv32 |
| 1571 | 757532.44 | 3638329.414 | 1 | 1 | 0.18 | -43.2 | -54.1 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln166inv8 |
| 1572 | 757533.654 | 3638213.154 | 1 | 1 | 0.17 | 145.8 | -21.8 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln066inv14 |
| 1573 | 757533.927 | 3638345.159 | 0.97638 | 1 | 0.33 | -129.6 | -57 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln183inv17 |
| 1574 | 757535.797 | 3638379.104 | 1 | 1 | 1.11 | 133.1 | -13.1 | O | 155mm_M483A1_L04 | 105mm_M456_Heat_H06 | 105mm_M60_H05 | ln218inv5 |
| 1575 | 757536.345 | 3638276.744 | 1 | 1 | 0.03 | 10.1 | -10.2 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln113inv11 |
| 1576 | 757537.156 | 3638267.542 | 0.99997 | 1 | 0.17 | 13.8 | -83.1 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln104_0213 |
| 1577 | 757539.514 | 3638308.144 | 1 | 1 | 0.53 | 116.3 | -76.3 | O | 155mm_M483A1_H04 | 105mm_M60_L05 | 105mm_M456_Heat_H06 | ln145inv13 |
| 1578 | 757541.545 | 3638439.865 | 1 | 1 | 0.24 | 20.5 | -73.6 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln279inv12 |
| 1579 | 757541.998 | 3638321.123 | 1 | 1 | 0.65 | 166.1 | -86.5 | O | 155mm_M483A1_H04 | 105mm_M60_L05 | 105mm_M456_Heat_D06 | ln158inv11 |
| 1580 | 757544.065 | 3638417.359 | 1 | 1 | 0.26 | -169.9 | -45.1 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln256inv21 |
| 1581 | 757546.594 | 3638285.968 | 1 | 1 | 0.1 | 133 | -82.3 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln122inv2 |
| 1582 | 757547.512 | 3638330.757 | 1 | 1 | 0.13 | 160.3 | -80.5 | O | MK118_Rockeye_M01 | BDU-28_H02 | 40mm_MKII_E03 | ln168inv5 |
| 1583 | 757555.79 | 3638437.899 | 1 | 1 | 0.11 | -44.6 | -47.2 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln277inv19 |
| 1584 | 757558.357 | 3638468.813 | 1 | 1 | 0.02 | 127.1 | -21.4 | O | BDU-28_L02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln308_0394 |
| 1585 | 757561.174 | 3638402.838 | 1 | 1 | 0 | -57.9 | -77.3 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln241inv18 |
| 1586 | 757566.715 | 3638396.483 | 1 | 1 | 0.09 | -57.2 | -74 | O | 40mm_M385_L14 | MK118_Rockeye_M01 | BDU-28_I02 | ln234inv12 |
| 1587 | 757569.395 | 3638379.483 | 1 | 1 | 0.04 | -108 | -38.5 | O | 40mm_M385_L14 | BDU-28_I02 | MK118_Rockeye_M01 | ln217inv29 |
| 1588 | 757571.766 | 3638258.173 | 1 | 1 | 0.08 | 140.5 | 11.2 | O | BDU-28_I02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln113inv11 |
| 1589 | 757573.423 | 3638294.738 | 1 | 1 | 1.08 | 96.4 | -18.2 | O | 155mm_M483A1_L04 | 105mm_M60_H05 | 105mm_M456_Heat_H06 | ln1302 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1590 | 757579.624 | 3638295.551 | 1 | 1 | 0.14 | 96.6 | -55.7 | O | BDU-28_I02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln131inv14 |
| 1591 | 757580.387 | 3638251.594 | 1 | 1 | 0.11 | 102 | 32.2 | O | BDU-28_L02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | line107inv17 |
| 1592 | 757588.36 | 3638327.423 | 1 | 1 | 0.8 | -12.9 | -76.7 | O | 155mm_M483A1_J04 | 105mm_M60_H05 | 105mm_M456_Heat_H06 | ln162inv16 |
| 1593 | 757591.889 | 3638320.44 | 1 | 1 | 0.2 | -35.1 | -50.8 | O | 155mm_M483A1_J04 | 105mm_M60_L05 | 105mm_M456_Heat_H06 | ln155inv38 |
| 1594 | 757593.974 | 3638338.975 | 1 | 1 | 0.05 | -10.9 | -68.5 | O | BDU-28_M02 | MK118_Rockeye_K01 | 40mm_MKII_E03 | ln174inv2 |