DAILY SOLAR PERFORMANCE OF ACTIVE COLLECTORS

Collector: Solar Max (Eagle Building Products)

Technical notes: 66 sq. ft., faced due south at 60 degrees

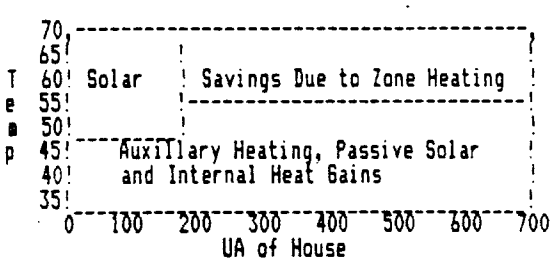

Chart One: Heating Characteristics on a Typical House from 12-1 p.m. on Feb. 21

Savings due to zone heating= (70-55) x 500 UA= 7500 BTU or 29%
Input from solar collectors= 4569 BTU
Savings due to zone and solar= 12,096 BTU or 47%

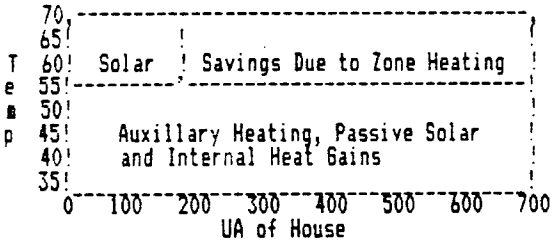

Chart Two: Heating Characteristics on a Typical House from 3-4 p.m. on Feb. 21

Savings due to zone heating= (70-55) x 500 UA= 7500 BTU or 29%
Input from solar collectors= 2782 BTU
Savings due to zone and solar= 9282 BTU or 36%

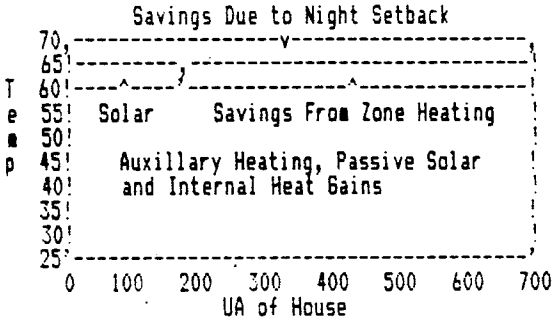

Chart Three: Heating Characteristics on a Typical House on Feb. 21 for Entire Day

DAILY TOTALS

Base heat loss= (70-26) x 700 UA x 24 hr=	739,200 BTU
Savings due to night setback= 15F x 700 UA x 8 hr=	84,000 BTU or 11%
Savings due to day zone heating= 15F x 500 UA x 8 hr=	60,000 BTU or 8%
Total input from solar collector=	28,646 BTU or 4%
Savings due to solar collector and zone heating=	88,646 BTU or 12%