

THE WEST ASSOCIATES
SOLAR RESOURCE
EVALUATION PROJECT

Solar Energy Measurements
at Selected Sites
Throughout the Southwest
During 1979

Project Management Sponsored By:
WEST Associates

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NOTICE

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PREFACE

This report describes the Western Energy Supply and Transmission (WEST) Associates Solar Resource Evaluation Project. Contained in this report are data and results for 1979 from 50 solar monitoring stations in the Southwest.

The Southern California Edison Company (SCE) has prepared this report under contract with WEST Associates. WEST Associates funds SCE for the project management portion of this project. Station instrumentation, site and maintenance costs for each station are borne by the respective utilities.

Any comments or suggestions pertaining to the WEST Associates monitoring network for this report are appreciated. Your input will help make this network and its data more useful to all.

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In an effort such as the WEST Associates Solar Resource Evaluation Project, the cooperation of a number of people is necessary for a successful program.

The SCE Shop and Test Division has been of tremendous help in the maintenance, calibration and data tape translation parts of the project. Special notice is given to Mr. Dorr Kimball and Mr. J. R. Coroas for their consistent efforts in perfecting the calibration program; Mr. Alan Hood for his assistance with instrumentation design and operation problems; and the Data Acquisition section for its assistance in the extraction of data from the magnetic data tapes and help in detection of instrumentation problems.

Special thanks is given to Mr. N. W. Patapoff for his assistance and advice in management of the network. Also, Mr. J. Zavala was helpful in the data validation procedures.

Recognition must also be given to the project representative(s) and maintenance personnel for each of the utilities that operate monitoring stations. Without their efforts, this project would not be possible.

ROSTER OF MEMBERS OF
WESTERN ENERGY SUPPLY & TRANSMISSION ASSOCIATES
- WEST ASSOCIATES -

Arizona Electric Power Cooperative, Inc.	Colorado-Ute Electric Association, Inc.
Arizona Power Authority	El Paso Electric Company*
Arizona Public Service Co.*	Nevada Power Company*
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	Tucson Gas & Electric*

* Participant in the Solar Resource Evaluation Project

INTRODUCTION

The Southwest has long been known as an area having an abundance of sunshine. This abundance has led to an increasing interest in supplementing fossil fuels with solar energy for use in space heating, water heating, industrial processes and generation of electricity. This project was designed to provide data that could be used for solar equipment design and evaluation of various solar technologies.

Background

In the course of initial technical assessments of solar energy applications in Southern California, Southern California Edison (SCE) recognized the need to have accurate incident solar radiation (insolation) information. However, the existing data base was inadequate.

In mid 1975 SCE installed the first of its 21 solar monitoring stations at Barstow, California, in a program to establish an accurate solar data base. A proposal was submitted to WEST Associates to expand the solar monitoring effort outside of the SCE service territory. The project, as approved, created the WEST Solar Monitoring network which now includes stations in six western states (Arizona, California, Colorado, Nevada, New Mexico and Wyoming). The first station outside of SCE's service territory was installed in mid 1976 at

Tucson, Arizona.

WEST Associates funds the project management portion of the program which provides (through SCE): calibration of instruments; translation and storage of data; data reduction (summaries and graphs); and production of annual reports. The utility operating the station provides: monitoring equipment; a site; station setup costs; maintenance; and data tape change-out.

The network, as presently envisioned, is shown on Maps 1 and 2. Of these stations, 13 were included in the initial publication (1976 report), 37 were included in the 1977 report, and 43 were included in the 1978 report. The 1979 report contains data collected from 50 of the network's stations.

Instrumentation

All network stations monitor total insolation on a horizontal surface and dry bulb temperature. Total insolation is an approximate indication of how much energy is incident on a horizontally mounted flat plate collector. The three types of pyranometers used to monitor total insolation on the WEST network are: the Eppley Black and White; the Eppley Precision Spectral; and the Spectrolab Spectrosun SR75.

At present, 24 stations also measure direct insolation.

This information shows the amount of energy available to concentrating collectors, such as the high temperature collectors needed for electric power generation. Direct insolation is measured with the Eppley Normal Incidence Pyrheliometer (NIP).

Maintenance and Calibration

The value of a solar monitoring network is dependent on the accuracy of the instruments and the routine maintenance program. With this in mind, a rigorous program of maintenance and calibration has been instituted on the WEST network.

The WEST procedures call for maintenance to be performed once per week at stations that monitor total insolation and dry bulb temperature. At this time the pyranometer dome is cleaned and the electronics package is checked for correct operation. At stations that also monitor direct insolation, additional procedures call for maintenance to be performed three times per week. During this maintenance, the pyrheliometer is cleaned and adjustments for declination and azimuth are made on the tracking mount.

All solar instruments on the network are calibrated to the Absolute Scale (SI units). This scale is about 2 percent higher than the International Pyrheliometric Scale of 1956 used in the 1976 data report.

SCE's goal is to calibrate all instruments on the network twice per year. To calibrate the pyrhemometers, SCE has obtained a cavity radiometer. Pyrhemometers are calibrated side by side in sunlight, near noon, under clear sky conditions and only after waiting a suitable length of time for temperature stabilization.

Pyranometers undergo two different tests to assure a valid calibration: the Sun and Shade method and a side by side comparison with a reference pyranometer. The pyranometers are also checked for cosine and azimuth response calibrations.

Data Collection and Storage

Instrument outputs are converted by the electronics package to a series of pulses. These pulses are recorded on magnetic tape by equipment that is compatible with the existing SCE Data Acquisition System. These tapes are changed once per month and sent to SCE's Data Acquisition Translator/Computer Facilities, where the data are read from the tapes and placed on the main data base as 15 minute average values. All data are recorded using local standard time as a time base.

Over the past three years, data losses have ranged from 3 to 6 percent on the complete network. This year when 3.9 million data points were collected at 50 solar monitoring stations, 7.6 percent were lost (see Tables 9, 10 and 11 in

Appendix B pp. 42-46). From these tables it should be noted that most of the data losses occurred at a few stations that experienced instrument or maintenance problems. Most stations had very small amounts of lost data. It should also be noted that direct insolation measurements require much more attention to produce good data. This difficulty is reflected in the amount of data lost at direct stations.

Edison is continuing to work with the operators of the stations with high data losses to try to improve their station performance.

II

GENERAL OBSERVATIONS
AND SUMMARY

II

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While compiling the data for this report, certain observations were made as to the solar energy level and its distribution in the Southwest. To aid in explaining these observations, eight tables have been included to show the total horizontal and direct normal insolation for the last four years (Tables 1-8). It should be noted that all solar instruments are calibrated to the Absolute Scale (SI units). All values shown in the tables are in kwh/sq m-day.

General Observations

During 1979, the WEST network again grew in size, adding 7 new stations. Since some of these stations were not in operation for the entire year, complete comparisons of annual averages, minimums and maximums were not possible for all stations. Annual averages were only computed for stations having 12 months of data.

On the average, solar data collected during 1979 were mostly higher than 1978, although the 1976 data values were still slightly higher (see Table 1). The year 1976, the best year to date, was characterized by drought conditions in the southwest United States. This condition led to what now appears to have been a higher than average insolation year. This year, 1979, had heavy rainfall during the first three

months of the year. The rest of 1979 was fairly clear with no major tropical storm activity. For the distribution of clear and cloudy periods at each station, note the Annual Distribution graphs shown in Appendix D, Building Applications Summary (pp. 49-153).

1979 Data Observations

As shown in Table 1, the Lancaster, California station recorded the highest total insolation average during 1979 (5.94 kwh/sq m-day). The other California desert areas and Arrowhead, California followed closely behind Lancaster.

Again this year, Denver #2, Colorado was the station with the lowest total insolation average (4.38 kwh/sq m-day). The other Colorado stations were only slightly better. These lower averages were probably due to thundershower activity in the summer and the stations' northerly latitude. The only other station noticeably low was Mandalay, California. This station is effected by coastal low clouds and fog for a substantial portion of the year.

Table 2 shows that Yucca Valley, California again had the highest annual average direct insolation (7.82 kwh/sq m-day). The lowest direct insolation average was at Los Angeles, California (5.11 kwh/sq m-day). This low average was probably due to the scattering of the direct insolation by fog and air

pollution.

Long-term Observations

Over the four years that data have been collected by the WEST network, some long-term averages have been established. For those stations that had operated for several years, Lancaster, California and Yucca Valley, California had the highest annual averages - 5.89 and 5.88 kwh/sq m-day respectively. These averages also show that 1976 was a very good year for solar radiation, exceeding all following years in most cases. The stations with the lowest total insolation averages have not been in operation for as long a period. From the data gathered so far, the Denver #2, Colorado station has had the lowest annual average for the last two years. The two year average for this station is 4.46 kwh/sq m-day.

The long-term direct insolation annual averages show that Ridgecrest, California and Yucca Valley, California had the highest annual averages (7.85 kwh/sq m-day). The lowest average comes from the downtown Los Angeles, California monitoring station (5.11 kwh/sq m-day). Even though this station has only recorded one year of data, it probably will continue to be one of the stations with the lowest direct insolation averages due to the presence of fog and air pollution.

Regional Comparisons

In last year's report, the area covered by the WEST network was divided into five regions: Pacific-Coastal; Los Angeles Basin; California-Nevada Desert; Arizona; and Rocky Mountain-New Mexico. This year, more data are available to make regional comparisons. As more data are collected, more reliable conclusions can be drawn.

The total insolation in the Pacific Coastal region was better this year than last. The only direct insolation station in operation during the whole year, Escondido, California, had an average that improved over last year. Next year, two additional stations measuring direct insolation near the Pacific coast will be included in the report.

The Los Angeles Basin region stations recording total insolation mostly showed equal or better annual averages. However, the averages recorded in 1976 were still higher. Since there were no direct insolation measurements made in this region until mid-1978, no conclusions can be drawn about the change in this parameter.

The region with the longest data record is the California-Nevada Desert region. This year, the total and direct insolation annual averages were both equal to or better than the 1978 data. It should be noted that the 1976 averages were still slightly higher than the 1979 averages.

The only stations in the Arizona region with enough data to draw conclusions were Imperial, California and Blythe, California. The annual average total insolation at Imperial was about the same as last year. At Blythe, the annual average total insolation increased, while the direct insolation annual average was about the same as the long-term Blythe average.

In the Rocky Mountain-New Mexico region all stations had higher total and direct insolation annual averages except the Denver #2, Colorado station. This station's total insolation annual average decreased. The direct insolation annual average at Albuquerque, New Mexico, the only station in this region with a complete year of direct insolation data, decreased from last year.

The remaining two stations that are not easily fit into the five regions are Visalia, California and Arrowhead, California. These stations, only measuring total insolation, showed increases in their annual averages over the 1978 data.

As an additional method to get a handle on the variation of insolation across the network area, the various regions were compared and ranked by their annual averages. This is a crude method, but will help point out the major differences between the regions.

For total insolation, the California-Nevada Desert and

the Arizona regions had the highest averages and were similar to each other. The California Coastal region was next in order. The regions with the lowest annual averages were the Los Angeles Basin and the Rocky Mountain-New Mexico regions. These two regions had similar averages.

For the direct insolation annual averages, the order was slightly different. The highest average was in the California-Nevada Desert region. This region was followed by the Arizona region. In third place was the California Coastal region. The lowest annual averages were observed in the Los Angeles Basin and the Rocky Mountain-New Mexico regions which had similar regional averages.

If more details are required for specific station comparisons, please consult the graphs presented in Appendix D, Building Applications Summary.

Summary

At the end of 1979, several of the WEST monitoring stations had been in operation for four years. The four year averages from these stations are approaching what could be called the station long-term average.

Studies can now be made to look at the variation of the solar resource across the WEST network area. If two

stations are sufficiently similar, maybe monitoring could be discontinued at one of the stations without any significant loss of the network's coverage. Sufficient data have now been collected at some stations to address with more detail this question and the questions of forecastability and extreme occurrences of cloudy periods.

Previous editions of this report have been distributed to government agencies, universities, utilities, solar consultants and other interested parties. The Detailed Statistical Summaries for the individual stations and the raw data tapes have been used for analysis of solar energy systems and integration studies.

Information on the WEST network, its organization and maintenance has been shared with the Department of Energy (DOE), National Oceanic and Atmospheric Administration (NOAA), the National Weather Service (NWS) and their contractors who work with the national solar data network. These exchanges of information and experiences have been very helpful for all parties involved.

TABLE 1

AVERAGE DAILY TOTAL INSOLATION
DATA COLLECTED DURING 1979

STATION NAME	WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*												1979 AVG.	1978 AVG.	1977 AVG.	1976 AVG.	AVG. ANNUAL		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC							
ARIZONA PUBLIC SERVICE																			
GILA BEND	--	--	5.26	7.33	7.99	8.29	8.01	6.92	5.89	4.83	3.70	3.08	--	--	--	--	--	--	
PARKER	--	--	--	--	--	--	--	--	--	--	--	2.87	--	--	--	--	--	--	
PHOENIX	2.56	2.90	--	--	--	8.29	7.69	6.82	5.84	4.54	3.55	2.77	--	--	--	--	--	--	
SAGUARO	--	--	--	7.35	7.84	8.21	6.70	6.02	5.21	4.22	3.08	2.42	--	--	--	--	--	--	
IMPERIAL IRRIGATION DISTRICT																			
INPERIAL	2.87	4.47	5.38	7.18	7.23	7.89	7.45	6.73	5.99	5.00	3.91	3.28	5.62	5.66	--	--	--	5.34	
LOS ANGELES DEPT WATER & POWER																			
INGLEWOOD	--	--	--	--	5.74	6.43	7.03	5.46	5.06	3.58	2.99	2.42	--	--	--	--	--	--	
LOS ANGELES	2.29	3.42	4.31	6.22	5.86	6.87	7.28	6.02	5.50	3.85	3.29	2.69	4.80	--	--	--	--	4.80	
SAN PEDRO	--	--	--	--	--	--	--	--	--	--	3.10	2.63	--	--	--	--	--	--	
SUN VALLEY	2.44	3.49	4.19	6.55	6.35	7.49	7.55	6.48	5.82	4.10	3.50	2.86	5.07	--	--	--	--	5.07	
WEST LOS ANGELES	2.35	3.53	4.34	6.20	6.12	7.04	7.35	6.14	5.73	4.04	3.39	2.73	4.91	--	--	--	--	4.91	
NEVADA POWER COMPANY																			
BOULDER CITY (DRI)	2.25	--	--	--	7.72	8.29	7.73	--	6.06	3.75	3.65	2.81	--	--	--	--	--	--	
LAS VEGAS	2.18	3.84	4.80	6.97	7.66	8.41	7.86	6.67	6.01	4.48	3.39	2.64	5.41	5.40	--	--	--	5.41	
PUBLIC SERVICE OF COLORADO																			
ALAMOSA	3.13	4.51	5.31	6.54	6.87	8.00	7.66	6.85	5.97	4.66	3.51	3.03	5.50	--	--	--	--	5.50	
CHEYENNE	2.52	3.70	4.45	6.05	6.25	7.83	6.58	5.64	5.36	3.68	2.59	2.04	4.72	4.56	--	--	--	4.56	
DENVER 1 (SOUTHEAST)	2.52	3.46	4.41	6.07	5.65	7.26	6.96	5.96	5.57	3.75	2.75	2.10	4.71	4.68	--	--	--	4.70	
DENVER 2 (HOLLY)	2.26	3.05	3.88	5.73	5.09	6.48	6.79	5.84	5.32	3.57	2.58	1.97	4.38	4.53	--	--	--	4.46	
PUEBLO	2.81	3.64	4.37	5.86	5.67	7.43	7.05	6.19	5.61	4.01	3.12	2.42	4.85	4.80	--	--	--	4.83	
PUBLIC SERVICE NEW MEXICO																			
ALBUQUERQUE	2.81	4.01	4.88	6.25	6.69	7.42	7.21	6.84	5.72	4.80	3.46	2.99	5.26	--	--	--	--	5.26	
SALT RIVER PROJECT																			
PAGE	2.00	2.97	4.26	6.27	6.37	--	6.96	5.97	5.30	4.05	3.15	2.40	--	--	--	--	--	--	
SAN DIEGO GAS & ELECTRIC																			
ALPINE	2.44	4.11	4.47	6.74	6.42	7.58	7.90	6.56	6.26	4.71	3.63	3.28	5.34	--	5.33	--	--	5.34	
CARLSBAD	2.77	4.25	4.98	6.28	5.72	6.51	6.13	5.83	5.55	4.12	3.60	3.07	4.90	4.93	--	--	--	4.92	
CHULA VISTA	2.74	4.44	5.00	6.49	6.25	6.33	6.72	5.86	5.85	4.63	3.71	3.17	5.10	4.92	5.03	--	--	5.02	
EL CAJON	2.60	4.16	4.74	6.63	6.14	7.03	7.50	6.30	6.14	4.50	3.65	3.18	5.21	5.20	5.13	--	--	5.18	
ESCONDIDO	2.48	4.02	4.89	6.26	5.94	7.09	7.56	6.20	6.17	4.38	3.55	3.11	5.14	5.10	--	--	--	5.12	
RANONA	2.29	3.98	4.33	6.60	6.52	7.58	7.63	6.40	6.10	4.43	3.47	3.13	5.21	5.03	--	--	--	5.12	
SAN DIEGO	--	--	--	--	--	--	--	--	--	3.87	3.69	3.13	--	--	--	--	--	--	
SPRING VALLEY	2.62	4.12	4.62	6.18	--	--	--	--	--	--	--	--	--	5.19	5.27	--	--	5.23	
SIERRA PACIFIC POWER																			
RENO	--	--	--	--	7.97	8.19	7.57	6.39	5.95	3.83	2.52	1.93	--	--	--	--	--	--	

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 1 - CONTINUED

TOTAL INSOLATION (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1979 AVG.	1978 AVG.	1977 AVG.	1976 AVG.	AVG. ANNUAL
SOUTHERN CALIFORNIA EDISON																	
ALHAMBRA	2.56	3.87	4.38	6.35	5.96	7.08	7.52	6.28	5.85	4.10	3.54	2.96	5.04	--	--	--	5.04
ARROWHEAD	2.42	4.02	4.60	7.32	7.87	8.70	8.40	7.32	6.37	4.91	3.89	3.05	5.74	5.56	--	--	5.65
BARSTOW	2.59	4.28	4.88	7.21	7.87	8.44	8.04	6.70	6.08	4.80	3.72	3.06	5.64	5.62	5.62	5.74	5.66
BLYTHE	2.84	4.50	5.41	7.26	7.67	8.32	8.06	7.11	6.29	4.91	3.81	3.25	5.79	5.69	5.73	5.78	5.75
ELDORADO	2.37	4.04	4.75	7.10	7.76	8.44	8.00	6.73	6.21	4.63	3.74	2.54	5.53	5.49	5.45	5.56	5.51
EL SEGUNDO	2.68	3.72	5.66	6.45	5.67	6.49	6.11	5.63	5.13	3.97	3.26	2.73	4.79	4.97	4.83	5.09	4.92
EL TORO	2.48	3.88	4.61	6.24	5.69	6.83	7.32	6.03	5.93	4.15	3.53	2.98	4.97	4.99	5.10	--	5.02
HUNTINGTON BEACH	2.74	3.95	5.12	6.66	6.72	6.96	6.85	6.19	5.89	4.55	3.54	3.05	5.19	4.97	5.05	5.12	5.08
LAGUNA BELL	2.61	3.81	4.55	6.44	6.26	7.11	7.58	6.23	5.91	4.08	3.49	2.95	5.09	5.05	4.98	4.86	5.00
LANCASTER	2.69	4.43	5.25	7.45	8.17	8.75	8.47	7.53	6.49	4.99	3.85	3.23	5.94	5.82	5.84	5.97	5.89
MANDALAY	2.62	4.07	4.78	6.75	6.16	6.85	6.61	5.98	5.61	4.47	3.71	2.98	5.05	4.80	5.05	4.81	4.93
MOORPARK	2.24	3.65	4.67	6.50	6.71	7.45	7.64	6.65	5.83	4.46	3.68	3.03	5.21	4.94	--	--	5.08
PALM SPRINGS	2.60	4.42	5.18	7.20	7.54	8.23	7.98	6.74	6.07	4.81	3.83	3.18	5.65	5.52	5.59	--	5.59
PARDEE	2.64	3.82	4.47	6.72	6.97	7.92	7.83	6.94	6.16	4.51	3.65	3.03	5.39	5.29	5.36	5.45	5.37
RIALTO	2.49	3.60	4.04	6.29	5.99	7.34	7.61	6.47	5.94	4.09	3.54	3.03	5.04	5.04	--	--	5.04
RIDGECREST	2.67	4.41	5.47	7.31	8.13	8.77	8.23	7.11	6.45	4.89	3.75	2.99	5.85	5.80	5.83	5.91	5.85
VICTORVILLE	2.71	4.42	5.05	7.16	7.94	8.65	8.28	7.15	6.36	4.90	3.82	3.18	5.80	5.74	5.78	5.88	5.80
VILLA PARK	2.48	3.76	4.38	6.32	5.69	6.97	7.41	6.03	5.91	4.09	3.45	2.93	4.95	4.99	--	--	4.97
VISALIA	2.00	3.18	4.13	6.48	7.69	8.29	7.84	7.01	6.06	4.30	2.95	2.09	5.17	4.96	--	--	5.07
WALNUT	2.47	3.71	4.29	6.17	5.92	6.94	7.36	6.14	5.79	3.96	3.42	2.86	4.92	4.89	4.99	4.88	4.92
YUCCA VALLEY	2.78	4.67	5.33	7.45	7.80	8.60	8.21	7.07	6.39	5.06	3.99	3.27	5.89	5.86	5.84	5.91	5.88
TUCSON GAS & ELECTRIC																	
TUCSON	2.53	4.10	4.71	--	6.62	6.98	6.88	--	--	--	--	--	--	5.05	4.92	--	4.99

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 2

AVERAGE DAILY DIRECT INSOLATION
DATA COLLECTED DURING 1979

WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1979 AVG.	1978 AVG.	1977 AVG.	1976 AVG.	AVG. ANNUAL
ARIZONA PUBLIC SERVICE																	
GILA BEND	--	6.23	6.45	8.99	9.84	9.19	9.09	8.27	7.48	6.93	6.45	5.80	--	--	--	--	--
PARKER	--	--	--	--	--	--	--	--	--	--	--	5.41	--	--	--	--	--
SAGUARO	--	--	--	8.08	8.84	8.45	7.52	7.86	--	--	--	5.18	--	--	--	--	--
LOS ANGELES DEPT WATER & POWER																	
INGLEWOOD	--	--	--	--	--	--	--	5.21	6.17	4.72	5.29	4.84	--	--	--	--	--
8 LOS ANGELES	2.91	4.20	3.92	6.04	4.60	6.50	7.14	5.44	5.78	4.85	5.01	4.89	5.11	--	--	--	5.11
SAN PEDRO	--	--	--	--	--	--	--	--	--	--	5.35	4.44	--	--	--	--	--
12 SUN VALLEY CA	3.52	4.47	4.27	6.43	5.90	8.36	7.89	5.88	6.69	5.00	5.74	5.21	5.78	--	--	--	5.78
15 WEST LOS ANGELES	3.22	4.52	4.78	6.54	4.85	7.67	7.60	5.53	6.55	4.77	5.23	4.67	5.49	--	--	--	5.49
NEVADA POWER COMPANY																	
BOULDER CITY (DRI)	3.22	--	--	--	8.36	9.40	9.38	--	8.53	6.53	6.27	5.25	--	--	--	--	--
7 LAS VEGAS	2.88	5.51	5.68	8.12	8.52	10.14	9.59	7.82	8.72	6.66	6.09	3.60	6.94	--	--	--	6.94
PUBLIC SERVICE OF COLORADO																	
20 ALAMOSA	5.12	6.68	6.46	8.33	6.42	9.30	8.71	8.15	--	--	6.46	6.12	--	--	--	--	--
PUBLIC SERVICE NEW MEXICO																	
1 ALBUQUERQUE	4.09	5.33	5.45	5.44	7.07	8.37	8.84	6.90	6.70	6.20	6.45	5.77	6.38	6.49	--	--	6.44
SALT RIVER PROJECT																	
9 PAGE	2.72	4.07	5.55	7.78	6.67	8.54	8.07	7.31	7.31	6.53	6.26	4.97	6.32	--	--	--	6.32
SAN DIEGO GAS & ELECTRIC																	
5 ESCONDIDO	2.27	5.03	6.27	6.79	4.51	7.13	7.91	6.24	7.19	4.86	5.42	5.44	5.76	5.65	--	--	5.71
SAN DIEGO	--	--	--	--	--	--	--	--	--	4.70	5.56	5.47	--	--	--	--	--
SOUTHERN CALIFORNIA EDISON																	
2 ALHAMBRA	3.14	4.56	4.11	5.80	4.85	6.60	7.29	5.45	6.14	4.33	5.15	4.78	5.18	--	--	--	5.18
3 BARSTON	3.57	5.77	6.20	8.93	9.24	10.45	9.83	8.00	8.07	7.23	6.64	5.98	7.49	7.46	7.43	7.46	7.46
4 BLYTHE	3.77	5.67	5.95	8.19	7.70	9.51	9.50	9.23	8.06	6.71	6.43	5.64	7.20	--	6.99	7.44	7.21
6 LANCASTER	3.71	6.09	6.30	8.85	9.41	10.51	10.20	8.89	8.40	7.10	6.40	6.11	7.66	7.46	7.27	7.91	7.58
10 PALM SPRINGS	3.35	6.33	6.17	8.21	7.90	9.13	9.06	7.44	7.39	6.62	6.57	5.86	7.00	6.93	6.75	--	6.89
11 RIDGECREST	4.12	6.68	6.78	8.97	9.59	10.72	10.44	8.02	8.46	7.23	6.62	5.67	7.78	--	7.62	8.16	7.85
14 VICTORVILLE	3.52	6.25	5.84	8.56	8.83	10.25	9.75	8.22	7.90	6.71	6.68	5.75	7.36	7.35	7.36	7.76	7.46
16 YUCCA VALLEY	3.74	7.14	6.75	9.00	8.83	10.24	10.08	8.45	8.60	7.64	7.08	6.26	7.82	7.85	7.74	7.98	7.85
TUCSON GAS & ELECTRIC																	
13 TUCSON	3.39	6.25	5.29	--	--	--	8.05	9.12	--	--	--	--	--	--	6.36	--	6.36

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 3

AVERAGE DAILY TOTAL INSOLATION
DATA COLLECTED DURING 1978

WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1978 AVG.	1977 AVG.	1976 AVG.	AVG. ANNUAL
ARIZONA PUBLIC SERVICE																
GILA BEND	2.98	3.75	5.23	6.90	7.67	--	7.23	6.78	--	3.27	--	--	--	--	--	--
PHOENIX	1.63	2.68	3.91	5.38	6.22	6.70	--	5.31	5.18	--	--	--	--	--	--	--
IMPERIAL IRRIGATION DISTRICT																
IMPERIAL	2.82	4.11	5.28	6.96	7.79	8.32	7.69	7.35	6.27	4.72	3.61	3.05	5.66	--	--	5.66
LOS ANGELES DEPT WATER & POWER																
LOS ANGELES	--	--	--	--	--	7.05	7.33	6.31	4.98	3.70	2.76	2.42	--	--	--	--
SUN VALLEY	--	--	--	--	--	--	--	--	5.60	4.07	2.94	2.64	--	--	--	--
UNIV CA LOS ANGELES	--	--	--	--	--	--	--	--	--	--	--	2.51	--	--	--	--
NEVADA POWER COMPANY																
BOULDER CITY (DRI)	--	--	--	--	--	--	--	--	--	--	--	2.66	--	--	--	--
LAS VEGAS	2.48	3.58	4.71	6.62	7.74	8.41	7.77	7.19	5.98	4.40	3.25	2.68	5.40	--	--	5.40
PUBLIC SERVICE OF COLORADO																
ALAMOSA	2.83	3.84	5.08	6.55	6.84	8.19	8.17	6.93	6.16	--	3.24	3.01	--	--	--	--
CHEYENNE	2.13	2.85	4.78	5.32	6.00	6.98	7.03	5.90	5.44	3.95	2.17	2.20	4.56	--	--	4.56
DENVER 1 (SOUTHEAST)	2.16	3.10	4.61	5.67	6.12	6.83	7.05	6.15	5.68	4.04	2.51	2.27	4.68	--	--	4.68
DENVER 2 (HOLLY)	2.28	3.28	4.63	5.66	6.22	6.46	6.53	5.83	5.35	3.76	2.24	2.14	4.53	--	--	4.53
PUEBLO	2.65	3.30	4.93	6.32	6.34	6.32	6.81	6.21	5.76	4.19	2.33	2.49	4.80	--	--	4.80
PUBLIC SERVICE NEW MEXICO																
ALBUQUERQUE	--	--	4.86	6.90	6.95	7.87	7.58	6.86	5.77	4.50	2.91	2.83	--	--	--	--
SAN DIEGO GAS & ELECTRIC																
ALPINE	2.46	3.42	3.80	5.32	7.30	8.32	8.02	7.42	5.46	--	3.38	2.95	--	5.33	--	5.33
CHULA VISTA	2.68	3.59	4.28	6.18	7.04	6.90	6.69	6.41	5.21	4.00	3.27	2.82	4.92	5.03	--	4.97
CARLSBAD	2.50	3.49	4.47	6.14	6.93	7.01	6.79	6.39	5.24	3.89	3.40	2.89	4.93	--	--	4.93
EL CAJON	2.53	3.54	4.11	5.82	7.36	7.97	7.97	7.18	5.29	4.49	3.30	2.90	5.20	5.13	--	5.16
ESCONDIDO	2.48	3.39	4.05	5.59	6.96	7.82	7.83	7.18	5.29	4.50	3.26	2.82	5.10	--	--	5.10
RAMONA	2.39	3.35	3.94	5.20	6.71	8.16	7.79	6.98	5.34	4.46	3.22	2.84	5.03	--	--	5.03
SPRING VALLEY	2.62	3.63	4.20	5.91	7.25	8.13	7.85	6.93	5.18	4.45	3.33	2.86	5.19	5.27	--	5.23

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 3 - CONTINUED

TOTAL INSOLATION (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1978 AVG.	1977 AVG.	1976 AVG.	AVG. ANNUAL
SOUTHERN CALIFORNIA EDISON																
ALHAMBRA	--	--	--	--	7.19	7.68	7.98	6.93	5.48	4.16	3.11	2.79	--	--	--	--
ARROWHEAD	2.53	3.53	4.50	5.85	8.18	8.80	8.47	7.54	6.27	4.94	3.26	2.89	5.56	--	--	5.56
BARSTOW	2.59	3.82	4.93	6.68	7.93	8.50	8.20	7.35	6.19	4.86	3.42	3.01	5.62	5.62	5.74	5.66
BLYTHE	2.93	4.07	5.36	6.98	8.03	8.40	7.37	7.34	6.39	4.88	3.51	3.05	5.69	5.73	5.78	5.73
ELDORADO	2.60	3.71	4.69	6.50	7.88	8.64	7.73	7.26	6.02	4.67	3.24	2.89	5.49	5.45	5.56	5.50
EL SEGUNDO	2.34	3.38	4.46	6.03	7.34	7.12	7.02	6.65	5.59	3.71	3.18	2.78	4.97	4.83	5.09	4.96
EL TORO	2.28	3.39	4.09	5.50	7.10	7.68	7.65	6.88	5.24	4.25	3.14	2.73	4.99	5.10	--	5.05
HUNTINGTON BEACH	2.41	3.53	4.43	6.33	7.29	6.95	6.84	6.71	5.58	3.83	3.02	2.74	4.97	5.05	5.12	5.05
LAGUNA BELL	2.38	3.37	4.15	5.40	7.34	7.74	7.98	6.86	5.53	4.08	3.09	2.73	5.05	4.98	4.86	4.96
LANCASTER	2.75	3.82	5.06	6.66	8.35	8.75	8.61	7.72	6.39	5.02	3.56	3.19	5.82	5.84	5.97	5.88
MANDALAY	2.70	3.38	4.52	5.92	6.89	6.98	6.10	5.82	5.46	3.56	3.33	2.93	4.80	5.05	4.81	4.89
MOORPARK	2.45	3.41	4.21	5.30	7.38	7.42	7.64	6.59	5.36	3.98	2.98	2.58	4.94	--	--	4.94
PALM SPRINGS	2.61	3.90	4.97	6.64	7.91	8.34	8.00	6.57	6.16	4.69	3.51	2.89	5.52	5.59	--	5.55
PARDEE	2.51	3.43	4.27	5.34	7.93	8.10	8.23	7.23	5.70	4.60	3.25	2.92	5.29	5.36	5.45	5.37
RIALTO	2.25	3.31	3.79	5.17	7.15	7.90	7.88	6.91	5.63	4.44	3.16	2.88	5.04	--	--	5.04
RIDGECREST	2.64	3.96	5.12	6.89	8.28	8.65	8.58	7.55	6.41	4.91	3.53	3.07	5.80	5.83	5.91	5.85
VICTORVILLE	2.67	3.89	5.11	6.52	8.06	8.64	8.43	7.46	6.48	5.07	3.46	3.14	5.74	5.78	5.88	5.80
VILLA PARK	2.22	3.31	4.06	5.29	7.22	7.74	7.81	6.91	5.36	4.18	3.10	2.70	4.99	--	--	4.99
VISALIA	1.66	2.52	4.04	5.40	7.80	8.20	8.30	7.20	5.51	4.46	2.80	1.68	4.96	--	--	4.96
WALNUT	2.24	3.25	3.90	5.17	6.94	7.54	7.77	6.83	5.39	3.97	3.00	2.69	4.89	4.99	4.88	4.92
YUCCA VALLEY	2.86	4.03	5.34	7.01	8.28	8.56	8.28	7.64	6.51	4.92	3.70	3.14	5.86	5.84	5.91	5.87
TUCSON GAS & ELECTRIC																
TUCSON	2.75	4.10	4.67	6.54	6.97	7.23	6.49	6.14	5.71	4.38	3.06	2.59	5.05	4.92	--	4.98

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 4

AVERAGE DAILY ~~DIRECT~~ INSOLATION
DATA COLLECTED DURING 1970

WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1978 AVG.	1977 AVG.	1976 AVG.	AVG. ANNUAL
ARIZONA PUBLIC SERVICE GILA BEND	3.63	--	--	--	--	--	--	8.55	8.18	6.26	5.95	5.66	--	--	--	--
LOS ANGELES DEPT WATER & POWER LOS ANGELES	--	--	--	--	--	7.46	8.15	5.95	6.40	3.92	4.32	4.43	--	--	--	--
SUN VALLEY	--	--	--	--	--	--	--	--	5.93	4.59	4.92	5.14	--	--	--	--
UNIV CA LOS ANGELES	--	--	--	--	--	--	--	--	--	--	--	4.53	--	--	--	--
NEVADA POWER COMPANY BOULDER CITY (DRI)	--	--	--	--	--	--	--	--	--	--	5.83	5.39	--	--	--	--
LAS VEGAS	3.65	5.44	5.32	--	--	--	9.60	9.20	7.77	7.03	5.82	5.56	--	--	--	--
PUBLIC SERVICE COLORADO ALAMOSA	5.37	6.19	7.06	7.91	7.61	9.38	9.20	8.33	8.83	--	5.81	5.75	--	--	--	--
PUBLIC SERVICE NEW MEXICO ALBUQUERQUE	4.00	5.07	5.48	8.08	8.49	8.83	8.22	7.84	6.44	6.15	3.73	5.51	6.49	--	--	6.49
SAN DIEGO GAS & ELECTRIC ESCONDIDO	2.67	4.01	2.53	4.37	7.73	8.57	8.69	8.09	7.40	5.07	4.50	4.22	5.65	--	--	5.65
SOUTHERN CALIFORNIA EDISON ALHAMBRA	--	--	--	4.37	6.75	7.49	8.48	6.63	5.98	3.97	4.82	4.81	--	--	--	--
BARSTOW	3.46	5.30	5.58	7.69	9.45	10.31	10.43	9.32	8.63	7.27	6.08	6.03	7.46	7.43	7.46	7.45
BLYTHE	3.49	4.63	5.89	7.55	8.69	9.59	--	--	8.70	6.73	5.66	5.48	--	6.99	7.44	7.22
LANCASTER	3.81	5.21	5.57	7.07	9.58	10.55	10.87	9.45	8.53	7.07	5.80	6.05	7.46	7.27	7.91	7.55
PALM SPRINGS	3.52	5.75	5.85	6.94	8.79	9.63	9.14	8.62	7.79	6.23	5.72	5.12	6.93	6.75	--	6.84
RIDGECREST	4.90	5.79	5.93	8.12	9.73	10.52	10.48	--	--	7.48	6.29	6.08	--	7.62	8.16	7.89
VICTORVILLE	3.40	5.24	5.74	7.11	9.18	10.40	10.43	9.08	8.71	7.41	5.59	5.96	7.35	7.36	7.76	7.49
YUCCA VALLEY	4.05	6.21	6.55	8.15	9.96	10.48	10.25	9.81	8.98	7.31	6.45	5.99	7.85	7.74	7.98	7.86
TUCSON GAS & ELECTRIC TUCSON	4.81	--	6.24	8.91	9.55	9.41	6.66	7.44	7.51	6.32	5.37	5.16	--	6.36	--	6.36

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 5

AVERAGE DAILY TOTAL INSOLATION
DATA COLLECTED DURING 1977

WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1977 AVG.	1976 AVG.	AVG. ANNUAL
ARIZONA PUBLIC SERVICE															
GILA BEND	--	5.91	5.97	7.01	7.67	8.20	7.20	6.63	5.56	4.39	3.91	2.88	--	--	--
PHOENIX	--	--	5.64	6.70	7.47	--	6.52	6.35	3.98	3.55	2.51	1.90	--	--	--
IMPERIAL IRRIGATION DISTRICT															
IMPERIAL	--	--	--	7.06	7.55	8.06	7.50	6.68	5.65	4.35	3.90	2.52	--	--	--
NEVADA POWER COMPANY															
LAS VEGAS	--	--	--	--	--	--	--	6.82	5.87	4.57	3.26	2.38	--	--	--
PUBLIC SERVICE OF COLORADO															
ALAMOSA	--	--	--	--	7.20	6.95	6.64	5.88	5.38	4.62	3.26	2.60	--	--	--
CHEYENNE	--	--	4.81	5.11	6.44	6.46	6.19	5.33	5.21	4.15	2.58	2.17	--	--	--
DENVER 1 (SOUTHEAST)	--	--	4.79	4.95	6.37	6.68	6.27	5.48	5.16	3.85	2.66	2.06	--	--	--
DENVER 2 (HOLLY)	--	--	4.93	5.08	6.54	6.61	6.34	5.53	5.21	3.85	2.68	2.01	--	--	--
PUEBLO	--	--	5.57	5.61	7.19	--	6.86	6.08	5.31	4.23	2.92	2.55	--	--	--
PUBLIC SERVICE NEW MEXICO															
ALBUQUERQUE	--	--	--	--	--	6.58	7.24	6.17	5.30	4.85	3.49	--	--	--	--
SAN DIEGO GAS & ELECTRIC															
ALPINE	3.24	4.57	4.94	6.45	5.63	7.62	7.69	6.50	6.30	4.71	3.84	2.43	5.33	--	5.33
CHULA VISTA	3.19	4.37	5.46	6.15	6.34	6.11	6.97	5.72	5.85	4.27	3.62	2.34	5.03	--	5.03
DEL MAR / CARLSBAD	--	4.02	5.40	5.75	6.26	5.73	6.58	5.26	5.22	3.83	3.53	2.32	--	--	--
EL CAJON	2.84	4.31	5.35	6.25	6.03	6.79	7.59	6.05	5.91	4.40	3.67	2.40	5.13	--	5.13
ESCONDIDO	--	4.43	5.30	6.16	6.14	7.00	7.15	--	5.96	4.36	3.68	2.37	--	--	--
SPRING VALLEY	3.69	4.66	5.26	6.35	6.17	7.17	7.59	6.16	5.85	4.27	3.65	2.47	5.27	--	5.27

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 5 - CONTINUED

TOTAL INSOLATION (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1977 AVG.	1976 AVG.	AVG. ANNUAL
SOUTHERN CALIFORNIA EDISON															
ARROWHEAD	--	--	--	--	--	--	--	7.48	6.81	5.11	3.71	2.47	--	--	--
BARSTOW	3.10	4.36	5.69	7.02	7.16	8.00	8.06	6.80	6.25	4.79	3.59	2.59	5.62	5.74	5.68
BLYTHE	3.26	4.70	6.01	7.15	7.66	7.98	7.46	6.75	6.26	4.93	3.86	2.69	5.73	5.78	5.76
ELDORADO	3.00	4.41	5.71	6.99	6.99	7.58	7.54	6.54	5.91	4.72	3.42	2.59	5.45	5.56	5.51
EL SEGUNDO	2.93	3.88	5.52	6.25	6.27	5.88	7.24	6.28	5.47	3.91	3.41	1.95	4.83	5.09	4.96
EL TORO	2.98	4.13	5.33	6.22	6.40	6.73	7.49	6.29	5.59	4.24	3.53	2.22	5.10	--	5.10
HUNTINGTON BEACH	3.08	3.96	5.56	6.27	6.76	6.27	7.20	6.14	5.58	4.05	3.58	2.15	5.05	5.12	5.09
LAGUNA BELL	2.76	4.02	5.18	6.15	5.77	6.64	7.58	6.47	5.48	4.17	3.55	1.98	4.98	4.86	4.92
LANCASTER	3.04	4.55	5.90	7.32	7.20	8.38	8.62	7.22	6.59	4.96	3.69	2.64	5.84	5.97	5.91
MANDALAY	3.01	4.23	5.64	6.18	7.62	5.96	6.78	5.78	5.51	4.12	3.54	2.26	5.05	4.81	4.93
MOORPARK	--	--	--	--	--	--	5.94	6.42	5.57	4.38	3.55	2.11	--	--	--
PALM SPRINGS	3.07	4.53	5.86	7.03	7.18	8.07	7.57	6.52	6.21	4.69	3.79	2.57	5.59	--	5.59
PARDEE	3.00	4.37	5.56	6.88	5.81	7.46	8.15	6.67	6.07	4.60	3.53	2.27	5.36	5.45	5.41
RIALTO	--	--	--	--	--	--	6.23	6.34	5.65	4.35	3.56	2.21	--	--	--
RIDGECREST	3.13	4.56	5.91	7.29	7.42	8.11	8.51	7.14	6.47	5.29	3.50	2.58	5.83	5.91	5.87
VICTORVILLE	3.11	4.51	5.95	7.25	7.14	8.26	8.35	6.99	6.50	4.94	3.67	2.65	5.78	5.88	5.83
VILLA PARK	--	--	--	--	--	--	7.28	6.26	5.45	4.05	3.43	2.07	--	--	--
VISALIA	--	--	--	--	--	--	--	--	5.32	4.46	2.95	1.67	--	--	--
WALNUT	2.88	4.04	5.19	6.52	5.62	6.64	7.55	6.36	5.34	4.05	3.41	1.95	4.99	4.88	4.94
YUCCA VALLEY	3.12	4.67	6.05	7.35	7.46	8.31	8.05	6.83	6.44	5.05	3.89	2.86	5.84	5.91	5.88
TUCSON GAS & ELECTRIC															
TUCSON	2.70	4.21	5.14	6.17	6.66	6.70	6.43	5.70	5.03	4.24	3.51	2.54	4.92	--	4.92

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 6

AVERAGE DAILY ~~DIRECT~~ INSOLATION
DATA COLLECTED DURING 1977

WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1977 AVG.	1976 AVG.	AVG. ANNUAL
ARIZONA PUBLIC SERVICE GILA BEND	--	--	5.98	8.28	8.29	9.40	7.05	6.92	5.89	5.13	5.73	4.20	--	--	--
NEVADA POWER COMPANY LAS VEGAS	--	--	--	--	--	--	--	8.15	7.60	6.99	5.43	4.10	--	--	--
PUBLIC SERVICE COLORADO ALAMOSA	--	--	--	--	8.15	7.34	7.15	6.71	7.17	7.60	6.16	5.55	--	--	--
PUBLIC SERVICE NEW MEXICO ALBUQUERQUE	--	--	--	--	--	5.95	7.86	7.40	5.94	7.28	6.34	4.78	--	--	--
SAN DIEGO GAS & ELECTRIC ESCONDIDO	--	--	--	5.50	5.90	5.33	8.15	7.06	6.57	4.46	5.76	4.08	--	--	--
SOUTHERN CALIFORNIA EDISON															
BARSTOW	5.05	7.03	7.48	8.47	7.60	9.11	9.76	8.40	8.57	7.14	6.11	4.47	7.43	7.46	7.45
BLYTHE	4.82	7.19	7.41	8.22	8.18	8.79	7.87	7.23	7.42	7.08	6.10	3.64	6.99	7.44	7.22
LANCASTER	4.31	7.08	7.21	8.51	6.60	9.58	10.54	8.08	8.51	6.52	5.98	4.36	7.27	7.91	7.59
PALM SPRINGS	3.69	4.64	7.92	8.31	7.22	8.79	8.56	8.07	7.39	6.19	6.29	3.98	6.75	--	6.75
RIDGECREST	5.21	7.17	7.98	8.54	7.88	8.73	10.76	8.69	8.62	7.87	5.68	4.29	7.62	8.16	7.89
VICTORVILLE	4.94	7.16	7.91	8.16	7.11	9.24	9.77	8.15	8.59	7.26	5.83	4.15	7.36	7.76	7.56
YUCCA VALLEY	4.84	7.58	8.39	9.04	8.15	9.66	9.42	8.01	8.79	7.51	6.80	4.63	7.74	7.98	7.86
TUCSON GAS & ELECTRIC TUCSON	4.45	7.92	7.45	7.93	8.74	8.08	6.04	6.62	6.61	6.99	6.95	4.66	6.87	--	6.87

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 7

AVERAGE DAILY TOTAL INSOLATION
DATA COLLECTED DURING 1976

WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1976 AVG.
SOUTHERN CALIFORNIA EDISON													
BARSTOW	3.61	4.17	5.74	6.91	7.95	8.54	7.43	7.60	5.16	4.87	3.78	3.18	5.74
BLYTHE	3.66	4.15	5.94	6.98	7.83	8.40	7.27	7.61	5.58	4.97	3.92	3.22	5.78
ELDORADO	3.55	3.99	5.66	6.71	7.75	8.44	6.98	7.56	5.26	4.43	3.44	3.05	5.56
EL SEGUNDO	3.60	3.64	5.75	6.36	6.02	7.72	6.11	6.45	4.20	4.42	3.63	3.20	5.09
HUNTINGTON BEACH	3.53	3.62	5.54	6.23	6.28	7.45	6.12	7.12	4.06	4.52	3.64	3.20	5.12
LAGUNA BELL	3.24	3.32	5.03	5.72	6.04	7.48	6.53	6.93	3.72	4.10	3.32	2.87	4.86
LANCASTER	3.71	4.04	5.99	7.22	8.33	8.76	8.14	7.75	5.53	5.00	3.88	3.28	5.97
MANDALAY	3.58	3.80	5.61	6.34	6.38	7.67	5.96	4.01	2.22	4.77	3.97	3.44	4.81
PARDEE	3.63	3.61	5.69	6.13	7.17	8.17	7.57	7.12	4.47	4.64	3.65	3.33	5.45
RIDGECREST	3.60	4.23	5.96	7.18	8.05	8.65	7.89	7.67	5.60	5.02	3.85	3.25	5.91
VICTORVILLE	3.70	4.17	5.91	7.19	8.13	8.65	7.70	7.74	5.42	4.95	3.79	3.25	5.88
WALNUT	3.35	3.23	5.07	5.65	5.93	7.48	6.58	6.82	3.83	4.22	3.40	3.00	4.88
YUCCA VALLEY	3.79	4.21	5.89	7.20	8.16	8.72	7.43	7.84	5.34	5.00	3.97	3.37	5.91

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

TABLE 8

AVERAGE DAILY DIRECT INSOLATION
DATA COLLECTED DURING 1976

WEST SOLAR MONITORING NETWORK (KWH/SQ. M - DAY)*

STATION NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1976 AVG.
SOUTHERN CALIFORNIA EDISON													
BARSTOW	7.13	6.17	7.35	8.03	8.96	9.95	8.26	9.30	4.70	7.29	6.24	6.19	7.46
BLYTHE	6.44	5.38	7.28	8.09	8.63	10.02	8.26	9.70	5.88	7.10	6.84	5.69	7.44
LANCASTER	7.19	5.80	7.51	8.10	9.46	10.57	9.26	10.34	5.60	7.44	7.33	6.37	7.91
RIDGECREST	7.25	7.34	7.74	8.35	8.98	10.51	9.01	10.14	6.58	7.83	7.40	6.74	8.16
VICTORVILLE	7.27	5.93	7.36	7.99	9.02	10.51	8.35	10.04	5.97	6.87	7.14	6.62	7.76
YUCCA VALLEY	7.26	5.96	7.50	8.35	9.39	10.81	8.05	10.59	6.00	7.75	7.56	6.54	7.98

china Lake

*ABSOLUTE SCALE

BTU/SQ. FT. - DAY = 317 X KWH/SQ. M - DAY

III

DATA FORMAT
DESCRIPTION

DATA FORMAT DESCRIPTION

Since there are significant differences in the requirements among solar data users, three different methods of data presentation have been developed. A short description of each method follows.

Building Applications Summary

The Building Applications Summary is designed to be used with generally available solar collector performance data in the design of solar systems. This summary is composed of a Building Applications Data table, an Annual Distribution curve and an Annual Solar Duration curve for each solar monitoring station having valid total insolation and dry bulb temperature data. The Building Applications Summary is included in this report as Appendix D (pp. 49-153).

Detailed Statistical Summary

The Detailed Statistical Summary (DSS) provides significantly greater detail for insolation and dry bulb temperature levels than the Building Applications Summary.

Because of its length, up to 50 graphs and 135 data summaries and tables, each station's DSS is contained in a separate booklet.

In the DSS, total insolation levels and direct insolation levels (if measured) are summarized on a monthly and annual basis in the form of graphs and tables. On the same bases, a Solar Duration Curve summarizes the insolation levels as a function of the number of days the insolation was at or above any given level. The typical day in each of the twelve months is characterized by a Daily Profile. The Daily Profile does not represent a particular day, but rather is created by examining corresponding 15-minute intervals in the month to determine peak and average values. There is also a Solar Duration Curve of the Daily Profile, which summarizes the insolation level as a function of the number of hours it was at or above any given level. Dry bulb temperature data are summarized in Monthly Distribution and Daily Profile tables. Insolation values are in watts/sq. meter and BTU/sq. foot-hour. Dry bulb temperature values are given in degrees Fahrenheit. An example of the contents of a DSS is shown in Appendix E. The DSS is available at a cost of \$10 per station summary. To order see the subsequent section "Cost and Ordering Procedures."

Computer Tape

The computer tape contains all raw data as 15 minute averages recorded at the 50 solar monitoring stations which

were in operation during 1979. Insolation data are in units of watts per square meter. Dry bulb temperature data are in units of degrees Fahrenheit.

The tape is an unlabeled, 9 track, odd parity, 1600 bit per inch (BPI) magnetic tape. The logical record length is 686 bytes and the block size is 12348 bytes. The information is written in EBCDIC code.

The computer tape is available at a cost of \$50. To order see the following section "Cost and Ordering Procedures."

Cost and Ordering Procedures

To facilitate distribution of the data, the following fee schedule has been developed:

Detailed Statistical Summary -	\$10 per solar monitoring station
Computer Tape of Raw Data -	\$50 per tape

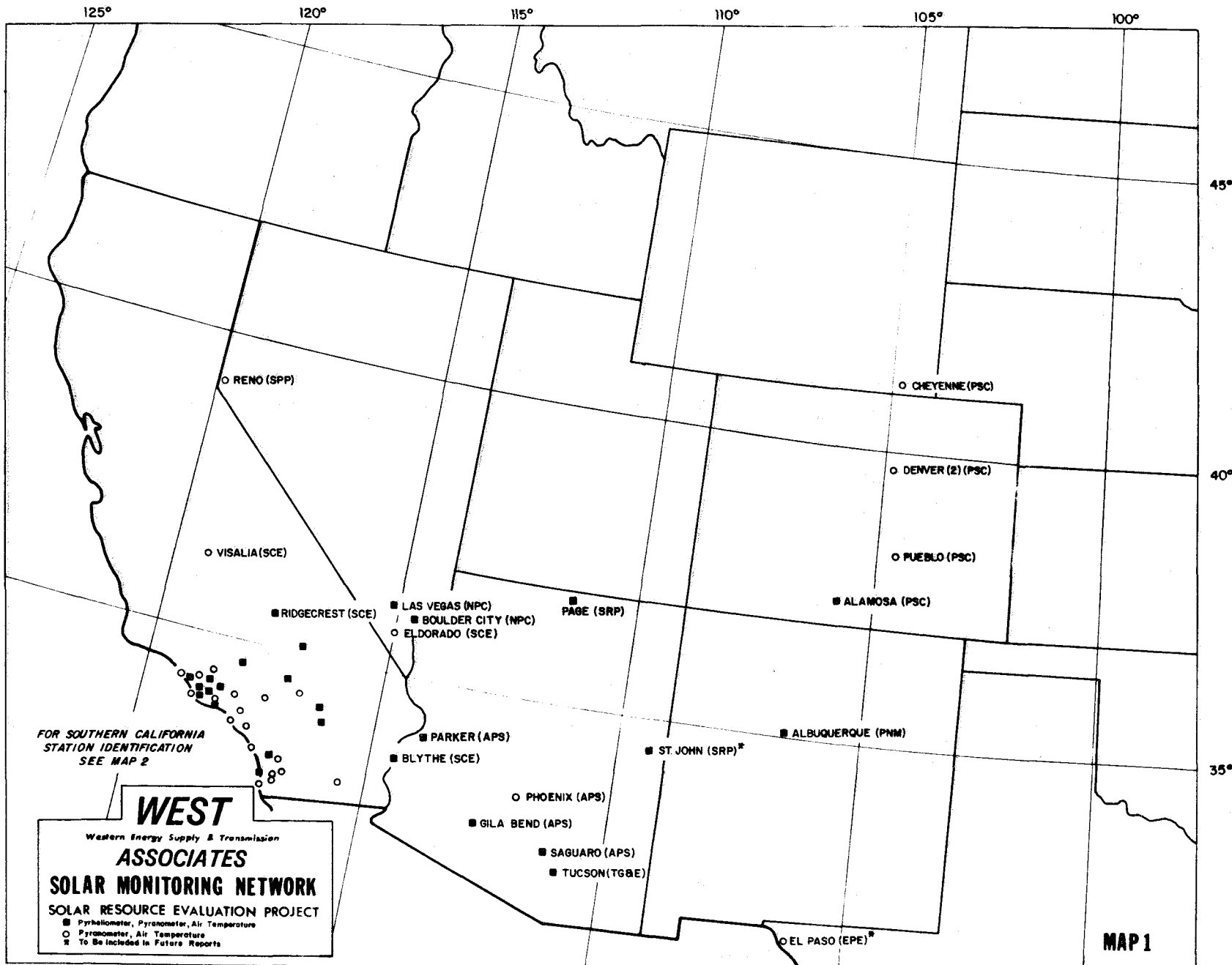
To request a Detailed Statistical Summary or a Computer Tape, send check or money order payable to Southern California Edison to:

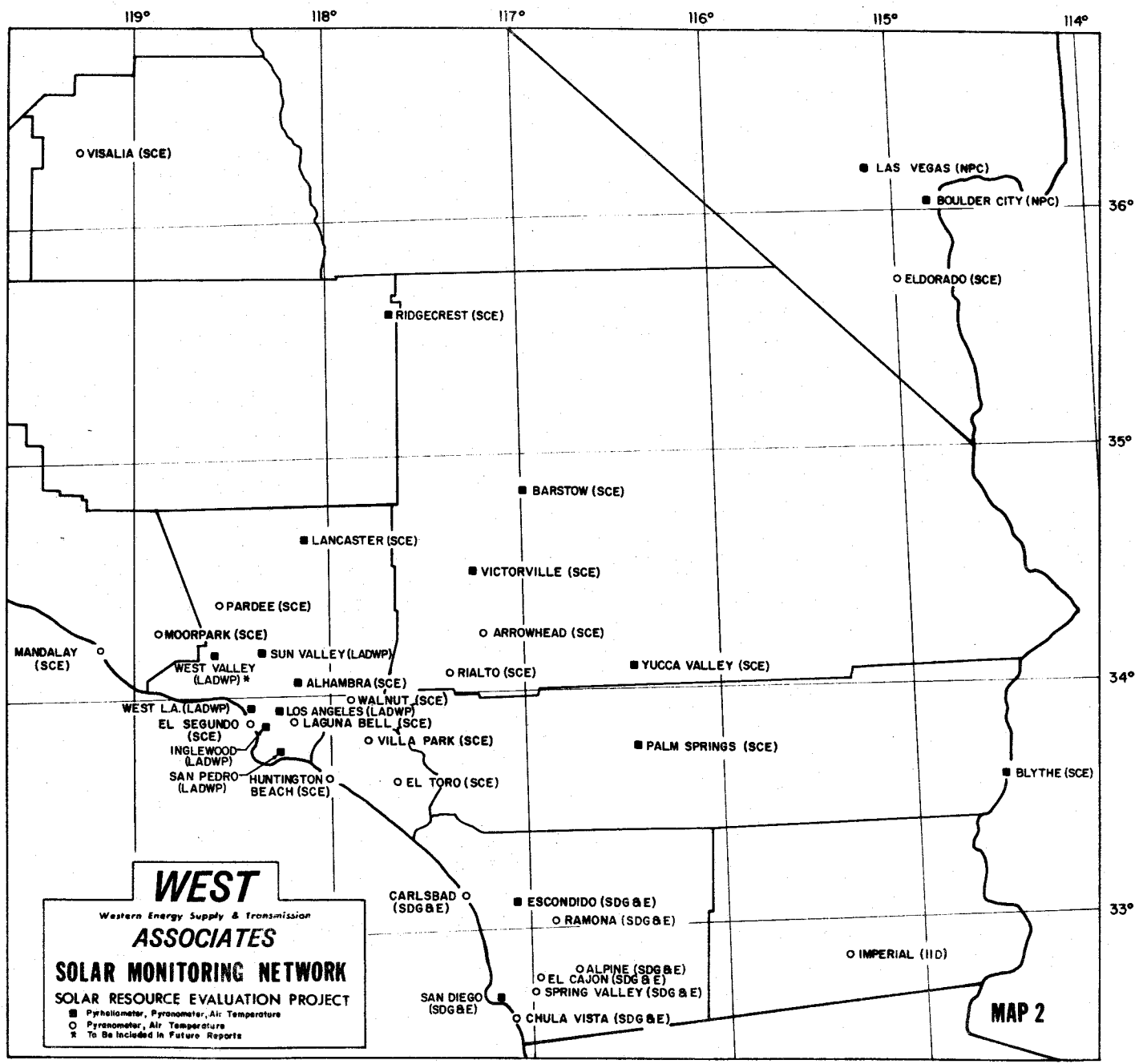
Solar Data
Research and Development
Southern California Edison Company
Post Office Box 800
Rosemead, California 91770

APPENDIX A

THE WEST NETWORK

Maps and Participants





MAP 2

WEST Solar Resource Evaluation Project

APS	Arizona Public Service
IID	Imperial Irrigation District
LADWP	Los Angeles Department of Water and Power
EPE	El Paso Electric Company
NPC	Nevada Power Company
PSC	Public Service Company of Colorado
PNM	Public Service Company of New Mexico
SRP	Salt River Project
SDG&E	San Diego Gas and Electric
SPP	Sierra Pacific Power Company
SCE	Southern California Edison
TG&E	Tucson Gas and Electric

APPENDIX B
MISSING DATA

The year 1979 saw the startup of seven new monitoring stations, bringing the total to 50 stations. With these new stations, plus some problems with equipment and station maintenance, the annual data loss amounted to 7.6 percent of the possible 3.9 million data points collected. The data losses are divided between instruments as follows:

Total Insolation	-	5.0 percent
Direct Insolation	-	13.5 percent
Dry Bulb Temperature	-	7.6 percent

The direct insolation measurement is more difficult to make than the others, and this difficulty is reflected in the larger percent data loss.

The following tables, 9, 10, and 11, show the data losses for each station in the network. From these tables it should be noted that most of the data losses occurred at a few stations that had instrument or maintenance problems. Most monitoring stations had very small amounts of data lost.

Edison is continuing to work with the operators of the stations with high data losses to improve their stations' performance.

TABLE 9

SUMMARY OF MISSING DATA - 1979
TOTAL INSOLATION

STATION NAME	% MISSING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ARIZONA PUBLIC SERVICE													
GILA BEND	23												
PARKER	0												△
PHOENIX	37												
SAGUARO	10				△								
IMPERIAL IRRIGATION DISTRICT													
IMPERIAL	1												
LOS ANGELES DEPT WATER & POWER													
INGLEWOOD	1					△							
LOS ANGELES	0												
SAN PEDRO	63											△	
SUN VALLEY	0												
WEST LOS ANGELES	1												
NEVADA POWER COMPANY													
BOULDER CITY (DRI)	34												
LAS VEGAS	0												
PUBLIC SERVICE OF COLORADO													
ALAMOSA	1												
CHEYENNE	0												
DENVER 1 (SOUTHEAST)	1												
DENVER 2 (HOLLY)	1												
PUEBLO	1												
PUBLIC SERVICE NEW MEXICO													
ALBUQUERQUE	1												
SALT RIVER PROJECT													
PAGE	9												
SAN DIEGO GAS & ELECTRIC													
ALPINE	0												
CARLSBAD	0												
CHULA VISTA	12												
EL CAJON	0												
ESCONDIDO	8												
RAMONA	0												
SAN DIEGO	0												△
SPRING VALLEY	1				□								
SIERRA PACIFIC POWER													
RENO	1					△							

△ STATION INSTALLATION DATE

□ STATION REMOVAL DATE

TABLE 9 - CONTINUED
TOTAL INSOLATION

STATION NAME	% MISSING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SOUTHERN CALIFORNIA EDISON													
ALHAMBRA	1												
ARROWHEAD	0												
BARSTOW	0												
BLYTHE	1												
ELDORADO	9												
EL SEGUNDO	11												
EL TORO	1												
HUNTINGTON BEACH	10												
LAGUNA BELL	0												
LANCASTER	0												
MANDALAY	7												
MOORPARK	0												
PALM SPRINGS	1												
PARDEE	0												
RIALTO	0												
RIDGECREST	1												
VICTORVILLE	1												
VILLA PARK	0												
VISALIA	1												
WALNUT	1												
YUCCA VALLEY	1												
TUCSON GAS & ELECTRIC													
TUCSON	53												

△ STATION INSTALLATION DATE
□ STATION REMOVAL DATE

43

TABLE 10

SUMMARY OF MISSING DATA - 1979
DIRECT INSOLATION

STATION NAME	% MISSING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ARIZONA PUBLIC SERVICE													
GILA BEND	24												
PARKER	0												
SAGUARO	46				△								△
LOS ANGELES DEPT WATER & POWER													
INGLEWOOD	0					△							
LOS ANGELES	7												
SAN PEDRO	34											△	
SUN VALLEY	2												
WEST LOS ANGELES	10												
NEVADA POWER COMPANY													
BOULDER CITY (DRI)	38												
LAS VEGAS	12												
PUBLIC SERVICE COLORADO													
ALAMOSA	25												
PUBLIC SERVICE NEW MEXICO													
ALBUQUERQUE	30												
SALT RIVER PROJECT													
PAGE	2												
SAN DIEGO GAS & ELECTRIC													
ESCONDIDO	11												
SAN DIEGO	0											△	
SOUTHERN CALIFORNIA EDISON													
ALHAMBRA	1												
BARSTOW	0												
BLYTHE	9												
LANCASTER	2												
PALM SPRINGS	1												
RIDGECREST	3												
VICTORVILLE	3												
YUCCA VALLEY	1												
TUCSON GAS & ELECTRIC													
TUCSON	67												

△ STATION INSTALLATION DATE

□ STATION REMOVAL DATE

TABLE 11

SUMMARY OF MISSING DATA - 1979
DRY BULB TEMPERATURE

STATION NAME	% MISSING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
ARIZONA PUBLIC SERVICE													
GILA BEND	24												
PARKER	0												△
PHOENIX	54												
SAGUARO	10				△								
IMPERIAL IRRIGATION DISTRICT													
IMPERIAL	1												
LOS ANGELES DEPT WATER & POWER													
INGLEWOOD	3					△							
LOS ANGELES	1												
SAN PEDRO	34											△	
SUN VALLEY	1												
WEST LOS ANGELES	1												
NEVADA POWER COMPANY													
BOULDER CITY (DRI)	39												
LAS VEGAS	67												
PUBLIC SERVICE OF COLORADO													
ALAMOSA	4												
CHEYENNE	1												
DENVER 1 (SOUTHEAST)	34												
DENVER 2 (HOLLY)	1												
PUEBLO	1												
PUBLIC SERVICE NEW MEXICO													
ALBUQUERQUE	1												
SALT RIVER PROJECT													
PAGE	37												
SAN DIEGO GAS & ELECTRIC													
ALPINE	1												
CARLSBAD	5												
CHULA VISTA	2												
EL CAJON	1												
ESCONDIDO	8												
RAMONA	1												
SAN DIEGO	0											△	
SPRING VALLEY	6				□								
SIERRA PACIFIC POWER													
RENO	1					△							

△ STATION INSTALLATION DATE
□ STATION REMOVAL DATE

TABLE 11 - CONTINUED
 DRY BULB TEMPERATURE

STATION NAME	% MISSING	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
SOUTHERN CALIFORNIA EDISON													
ALHAMBRA	1												
ARROWHEAD	1												
BARSTOW	6												
BLYTHE	1												
ELDORADO	12												
EL SEGUNDO	1												
EL TORO	1												
HUNTINGTON BEACH	4												
LAGUNA BELL	2												
LANCASTER	1												
MANDALAY	1												
MOORPARK	2												
PALM SPRINGS	1												
PARDEE	1												
RIALTO	1												
RIDGECREST	1												
VICTORVILLE	1												
VILLA PARK	1												
VISALIA	1												
WALNUT	9												
YUCCA VALLEY	1												
TUCSON GAS & ELECTRIC TUCSON	21												

△ STATION INSTALLATION DATE
 □ STATION REMOVAL DATE

APPENDIX C

LATITUDE, LONGITUDE AND ELEVATION OF
SOLAR MONITORING STATIONS

	Latitude		Longitude		Elevation
	(Deg	Min)	(Deg	Min)	(Feet)
Arizona Public Service					
Gila Bend	32	56	112	43	735
Parker	34	9	114	18	415
Phoenix	33	34	113	56	1250
Saguaro	32	33	111	18	1930
Imperial Irrigation District					
Imperial	32	49	115	23	-20
Los Angeles Dept. Water & Power					
Inglewood	33	57	118	23	100
Los Angeles	34	4	118	14	290
San Pedro	33	45	118	17	40
Sun Valley	34	15	118	23	910
West Los Angeles	34	4	118	27	400
Nevada Power Company					
Boulder City (DRI)	36	1	114	46	1500
Las Vegas	36	9	115	10	2080
Public Service Co. of Colorado					
Alamosa	37	29	105	52	7560
Cheyenne	41	8	104	49	6155
Denver 1 (Southeast)	39	39	104	51	5340
Denver 2 (Holly)	39	45	104	54	5330
Pueblo	38	16	104	37	4860
Public Service Co. of New Mexico					
Albuquerque	35	10	106	36	5175
Salt River Project					
Page	36	55	111	27	4360
San Diego Gas and Electric					
Alpine	32	51	116	6	2050
Carlsbad	33	8	117	20	75
Chula Vista	32	40	117	2	65
El Cajon	32	47	116	58	460
Escondido	33	8	117	6	710
Ramona	33	0	116	45	1730
San Diego	32	43	117	10	60
Spring Valley	32	44	116	55	710
Sierra Pacific Power					
Reno	39	30	119	47	4400

APPENDIX C - Continued

SOLAR MONITORING STATIONS

	Latitude		Longitude		Elevation
	(Deg	Min)	(Deg	Min)	(Feet)
Southern California Edison					
Alhambra	34	5	118	9	470
Arrowhead	34	17	117	13	5060
Barstow	34	53	117	0	2180
Blythe	33	36	114	36	265
Eldorado	35	48	115	0	1795
El Segundo	33	54	118	25	40
El Toro	33	38	117	42	360
Huntington Beach	33	39	117	59	20
Laguna Bell	33	58	118	9	135
Lancaster	34	42	118	9	2345
Mandalay	34	12	119	15	20
Moorpark	34	17	118	54	460
Palm Springs	33	47	116	28	305
Pardee	34	27	118	35	1035
Rialto	34	6	117	21	1210
Ridgecrest	35	37	117	40	2285
Victorville	34	33	117	17	2855
Villa Park	33	49	117	51	255
Visalia	36	20	119	17	335
Walnut	34	0	117	58	350
Yucca Valley	34	7	116	25	3360
Tucson Gas and Electric					
Tucson	32	10	110	54	2605

APPENDIX D

BUILDING APPLICATIONS SUMMARY

The Building Applications Summary has been designed to complement existing methods of presenting performance data for solar collectors. When this data is used in conjunction with generally available collector performance data, several solar system designs can be evaluated without the aid of a computer. Data from each of the 50 solar monitoring stations are included in this appendix. For each station, a Building Application Data table, an Annual Distribution curve and an Annual Solar Duration curve are included. The locations of these stations are shown on Maps 1 and 2 of Appendix A (pp. 37-40).

Format Explanation of Building Applications Data Table

The Building Applications Data table is calculated by using both total insolation and dry bulb temperature data, so reference should be made to Appendix B (pp. 41-46) which details periods of missing data. The numbers on the example Building Applications Data table, which follows (pp. 50), correspond to the description given on pages 51 and 52.

BUILDING APPLICATIONS DATA FOR BARSTOW, CALIF.

ACCOUNT/ CHANNELS 72955611
72955613

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	4.0 67.2	112.2 59.1	186.7 57.6	48.2	56.3	44.3	519.6	0.0	31	0	1071.
2/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.8 59.9	65.8 62.5	126.0 61.5	177.5 60.9	53.1	59.6	49.9	344.5	0.0	29	0	1226.
3/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	57.5 67.4	132.0 65.1	191.5 64.3	250.2 63.3	55.3	62.2	50.7	303.3	0.0	29	0	1729.
4/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	11.0 75.8	109.0 71.4	167.0 70.3	220.0 69.0	269.0 67.8	60.3	66.5	55.2	182.9	0.0	21	0	2095.
5/76	NUM OF HOURS AVG TEMP (F)	0.3 88.3	44.3 88.6	127.0 86.9	193.2 85.3	246.5 84.2	297.7 83.0	74.6	81.5	68.4	4.2	56.2	3	13	2387.
6/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	70.3 92.2	157.7 91.0	217.7 90.1	267.0 89.4	315.0 88.4	81.0	87.5	74.3	3.1	209.8	1	25	2597.
50 7/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	36.3 98.5	126.0 97.7	183.5 96.6	235.0 95.7	289.5 95.0	87.4	93.9	81.6	0.0	383.9	0	31	2246.
8/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	20.5 91.1	134.7 91.1	200.2 90.4	253.5 89.6	301.7 88.9	81.2	87.9	75.2	0.0	206.3	0	26	2314.
9/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	47.0 88.0	110.3 85.6	160.0 84.5	207.2 83.7	76.1	82.7	72.2	0.0	81.5	0	16	1529.
10/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.3 79.5	101.8 78.7	168.5 77.4	221.0 76.6	67.7	75.5	63.2	32.9	0.0	10	0	1462.
11/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	18.0 75.8	117.2 69.6	184.0 68.4	59.0	67.3	55.0	179.7	0.0	28	0	1119.
12/76	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	86.5 60.6	160.5 59.5	49.9	58.3	46.3	469.2	0.0	31	0	924.

NOTE

AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

FORMAT EXPLANATION FOR
BUILDING APPLICATIONS DATA TABLE

- ① Location of monitoring station
- ② Account/channel numbers of station instruments
- ③ Month and year
- ④ Number of hours above given insolation level
- ⑤ Average dry bulb temperature in degrees Fahrenheit (F) during period above given insolation level
- ⑥ Insolation level in BTU/hr - sq. ft.
Example: There were 131.2 hours in March with insolation above 200 BTU/hr - sq. ft. with an average temperature of 65.1 degrees F during those hours.
- ⑦ Average Daily Temperature in degrees F - Arrived at by summing all temperatures and dividing by the number of temperature observations.
- ⑧ Average Daylight Temperature in degrees F - Arrived at by summing all temperatures during periods of daylight, defined as insolation above 50 BTU/hr - sq. ft., and dividing by number of such observations.
- ⑨ Average Night Temperature in degrees F - Same as 8 but using temperature intervals below 50 BTU/hr - sq. ft.

- ⑩ Monthly Heating Degree — Days (65F) - Sum of differences between average daily temperature and 65F for each day of the month with average temperature below 65F.
- ⑪ Monthly Cooling Degree — Days (75F) - Sum of differences between average daily temperature and 75F for each day of the month with average temperature above 75F.
- ⑫ Number of Heating — Days - Number of days per month with an average temperature less than 65F.
- ⑬ Number of Cooling — Days - Number of days per month with an average temperature greater than 75F.
- ⑭ Average Total Insolation Per Day in BTU/sq. ft. - Average energy received from total insolation in a day (count only insolation values above 50 BTU/hr - sq. ft.)

NOTE: On the Building Applications summary sheets that follow, the words "Insufficient Data" appear in a number of locations. This means that there was not enough data to give a good monthly summary. Most of these appearances are because many of the stations were not installed until mid-year.

BUILDING APPLICATIONS
SUMMARY FOR THE
WEST SOLAR MONITORING NETWORK

(arranged in the same order as Table 1, pp. 18-19)

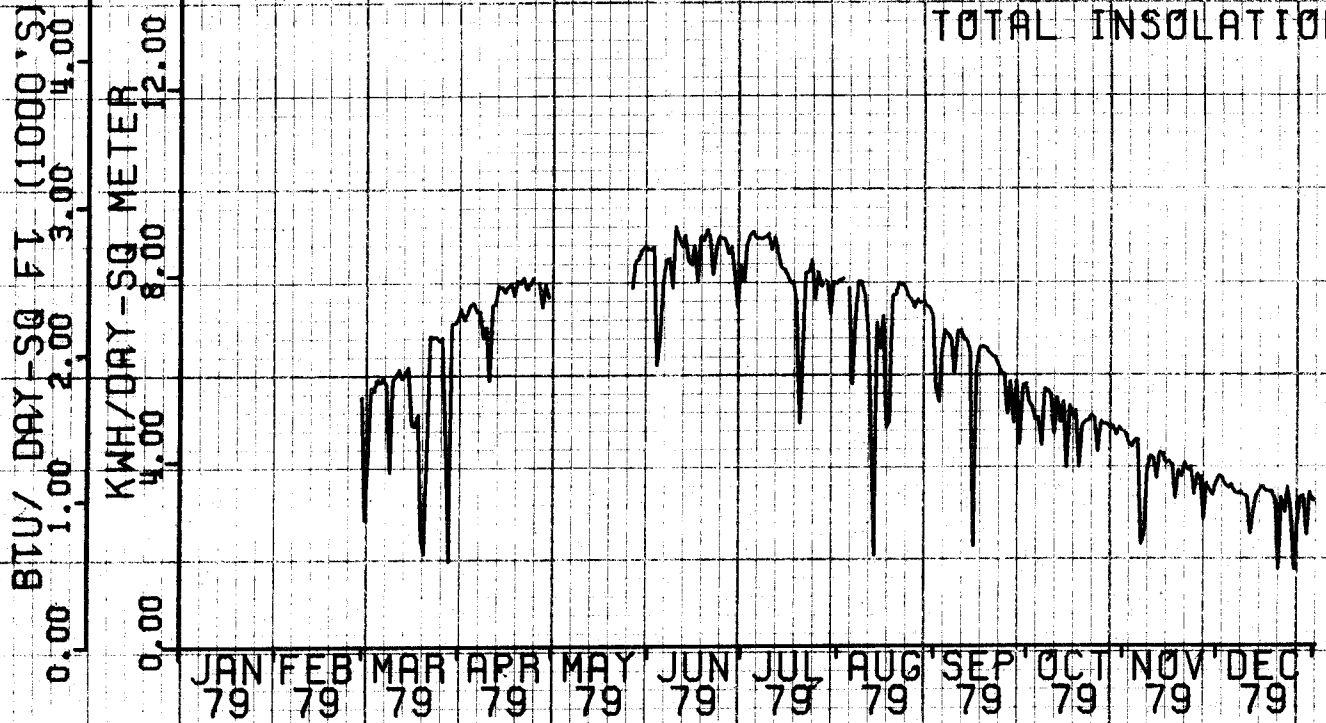
NOTES

1. The station called U.C. Los Angeles in the last report is now called West Los Angeles.
2. The Spring Valley station was removed on April 18, 1979.
3. The Phoenix station was moved on June 15, 1979 to a new location in Phoenix (see Appendix C pp. 47-48).

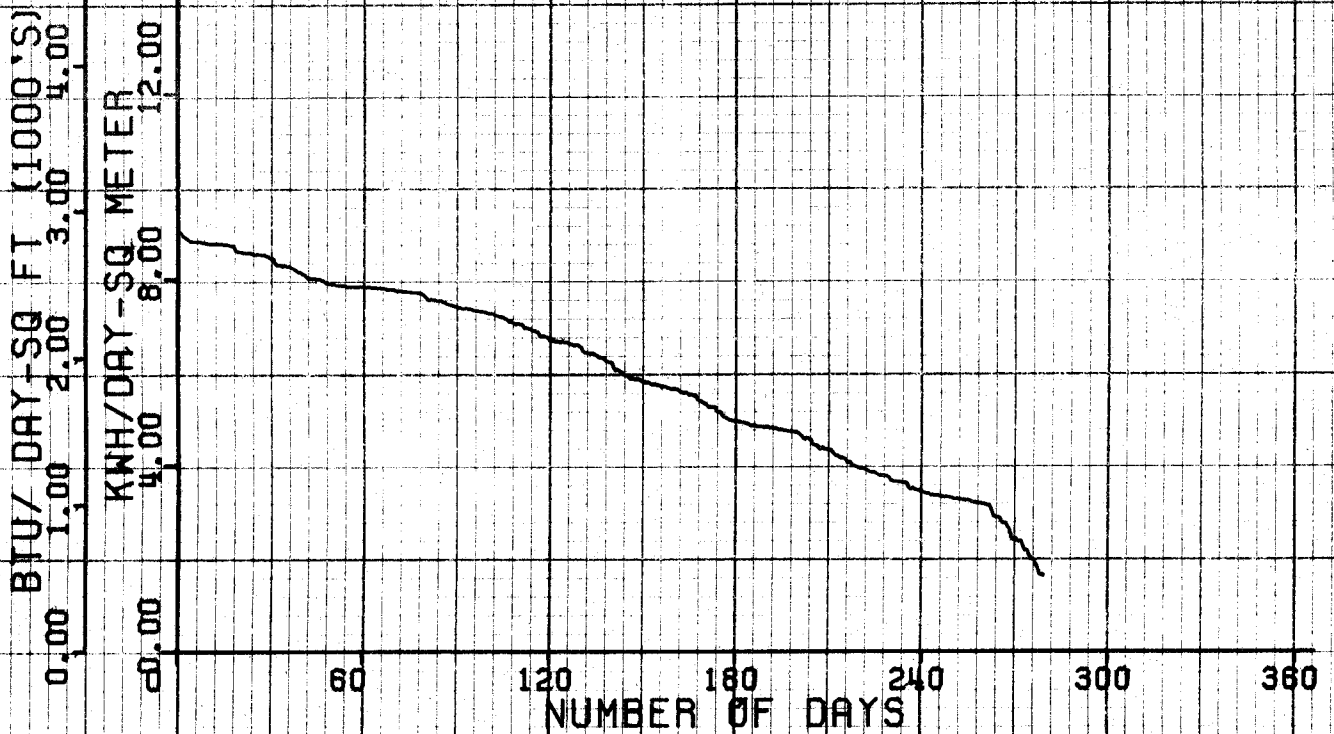
ANNUAL DISTRIBUTION

GILA BEND, ARIZ.

TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR GILA BEND, ARIZ.

ACCOUNT/ 82830121
CHANNELS 82830123

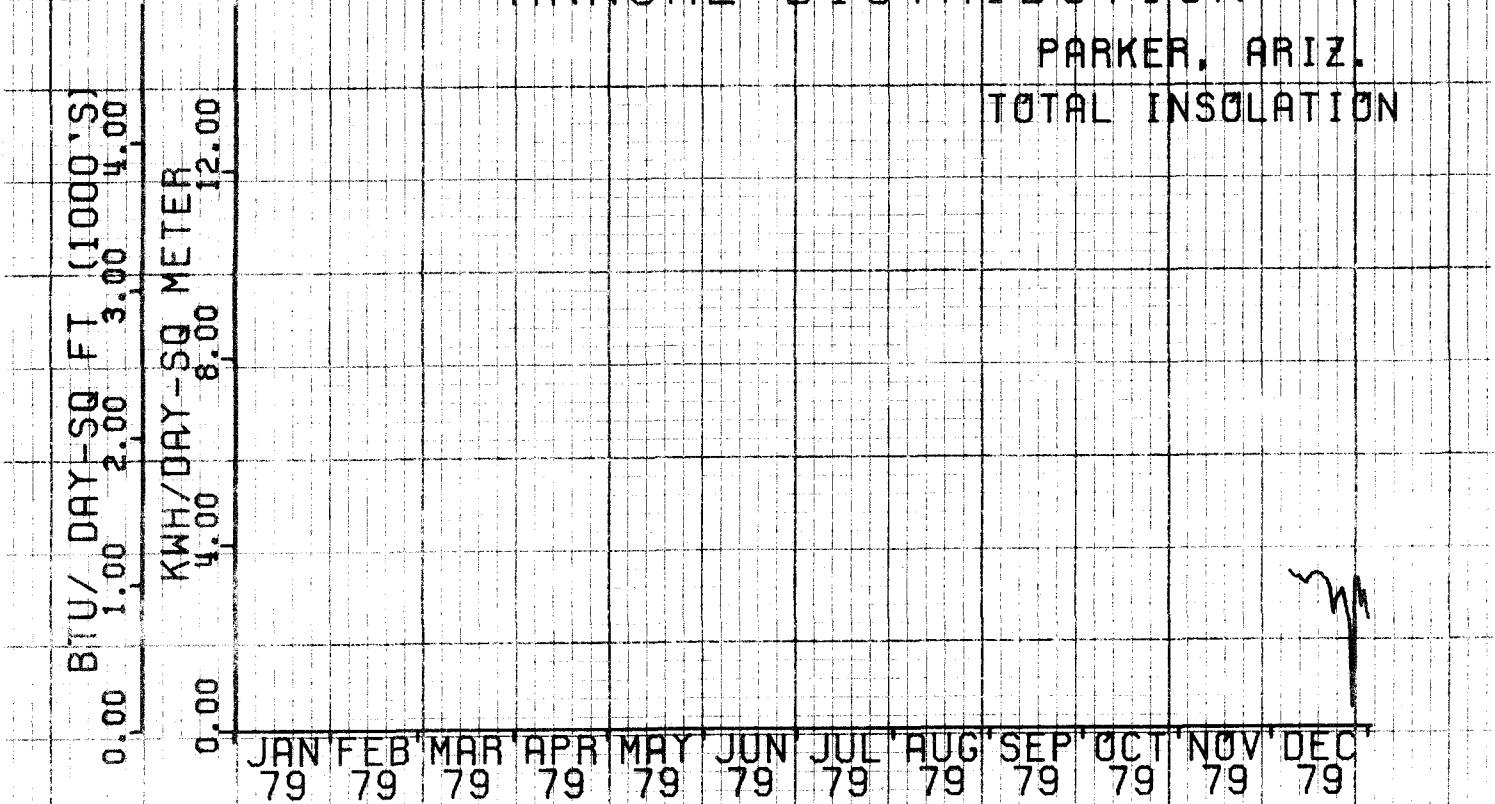
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	47.7	8888.0	8888.0	276.8	0.0	16	0	8888.
2/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	53.5	8888.0	8888.0	149.7	0.0	13	0	8888.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 0.0	61.8 71.8	122.0 71.2	174.0 70.5	222.2 69.6	60.0	68.5	54.8	99.5	0.0	16	0	1606.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	51.5 83.6	133.5 81.2	183.2 80.6	225.2 79.8	264.2 79.1	69.1	77.8	62.1	25.5	16.3	6	4	2312.
5/79	NUM OF HOURS AVG TEMP (F)	0.8 93.4	16.3 93.1	33.5 92.5	48.3 92.1	58.5 91.6	68.3 91.1	86.5	90.0	78.9	0.0	161.1	0	14	2594.
6/79	NUM OF HOURS AVG TEMP (F)	0.5 110.7	82.3 101.0	155.2 100.5	211.5 99.5	264.2 98.7	311.0 97.9	89.7	96.9	82.7	0.0	220.5	0	15	2581.
7/79	NUM OF HOURS AVG TEMP (F)	0.3 0.0	64.3 104.2	153.5 103.3	214.2 102.7	266.0 102.0	313.7 101.4	94.6	100.9	88.2	0.0	333.2	0	17	2494.
8/79	NUM OF HOURS AVG TEMP (F)	0.5 97.8	46.5 100.1	126.0 100.0	180.0 99.3	227.2 98.7	273.2 97.7	88.7	96.3	82.6	0.0	412.7	0	29	2132.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	74.3 100.8	141.0 100.5	196.2 99.9	246.2 98.9	90.1	98.0	84.6	0.0	452.1	0	30	1815.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	9.0 97.9	104.3 87.7	167.0 86.4	225.5 85.5	75.5	84.4	70.2	11.9	96.7	4	18	1481.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	27.3 73.2	115.2 69.4	175.7 68.4	58.2	67.3	53.7	210.2	0.0	27	0	1119.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.8 58.5	87.0 66.7	154.5 65.7	55.0	64.2	51.0	310.2	0.0	31	0	917.

NOTE

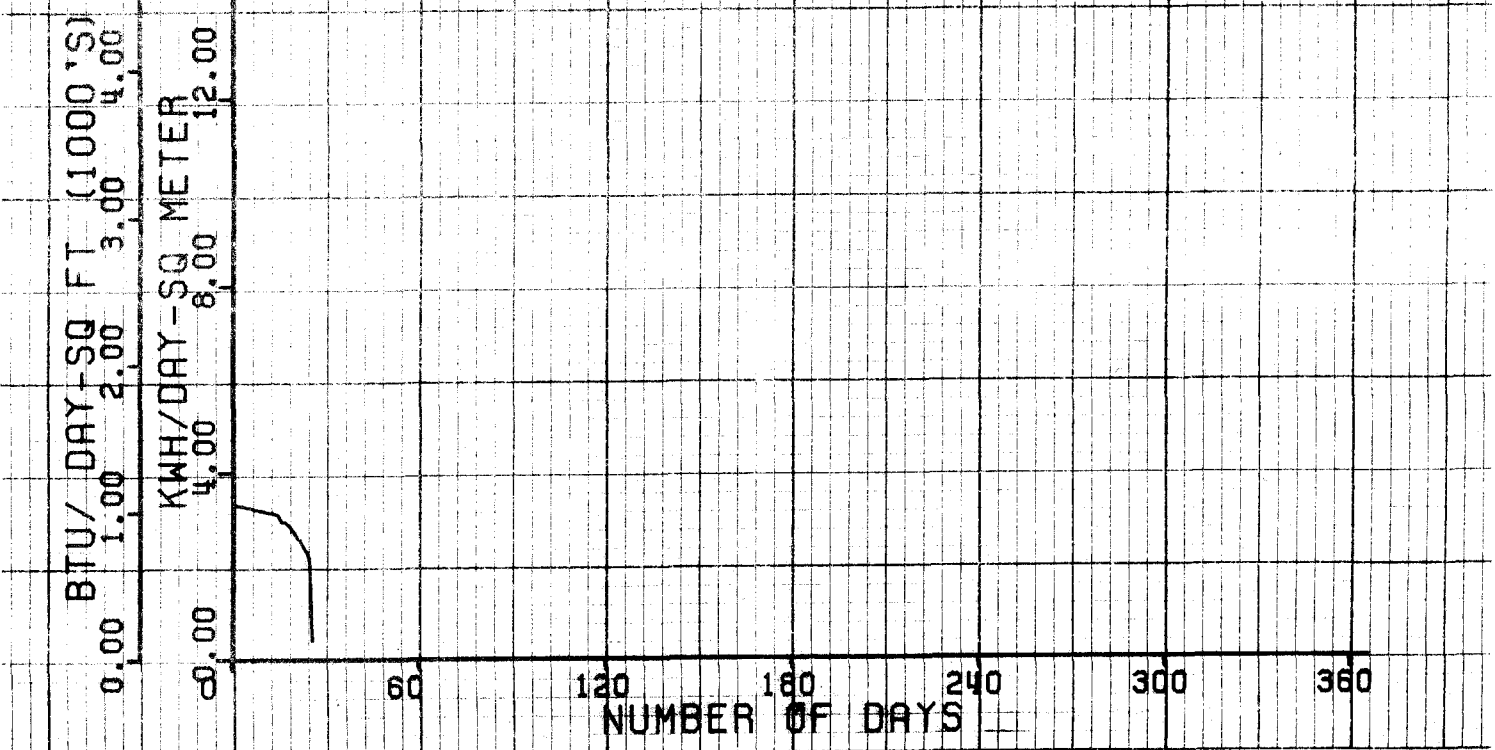
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

PARKER, ARIZ.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR PARKER, ARIZ.

ACCOUNT/ CHANNELS 82830461
82830463

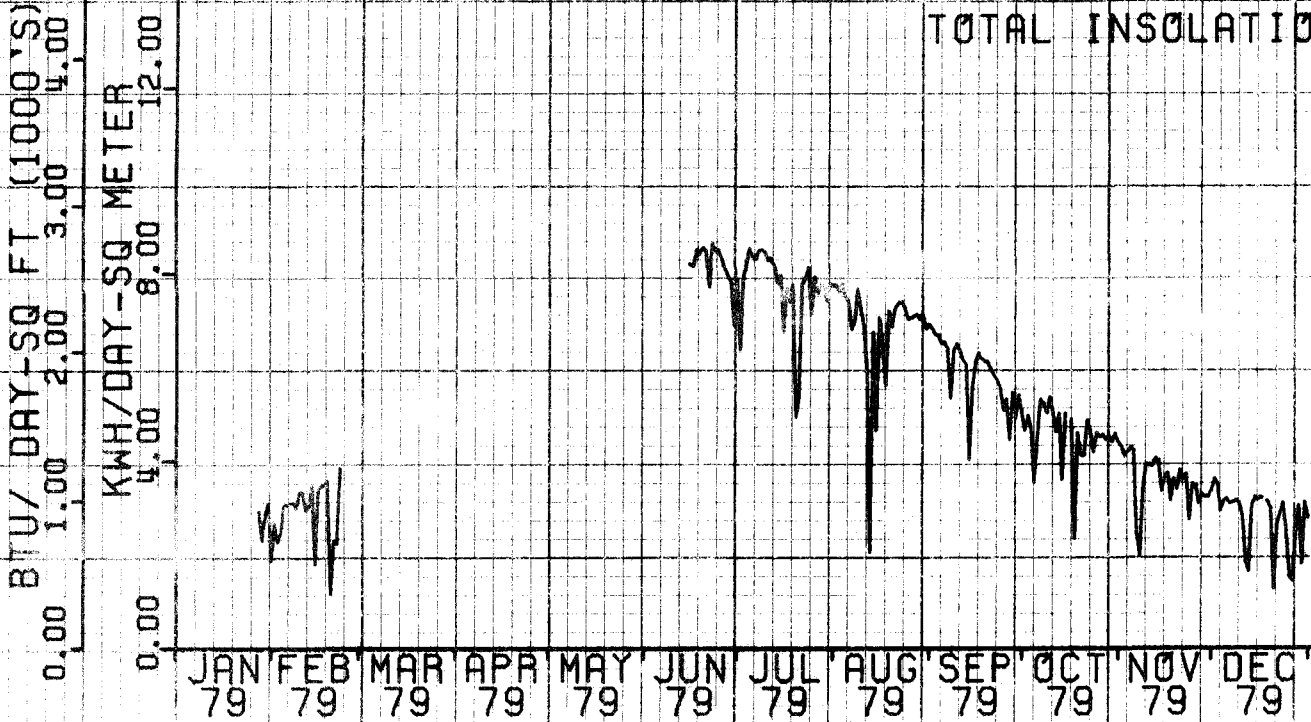
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
2/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
3/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
4/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
5/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
6/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
7/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
8/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
9/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
10/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
11/79	NUM OF HOURS AVG TEMP' (F)	----	INSUFFICIENT												
12/79	NUM OF HOURS AVG TEMP' (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	62.3 67.7	126.2 67.2	56.8	65.8	53.2	215.5	0.0	25	0	857.

NOTE

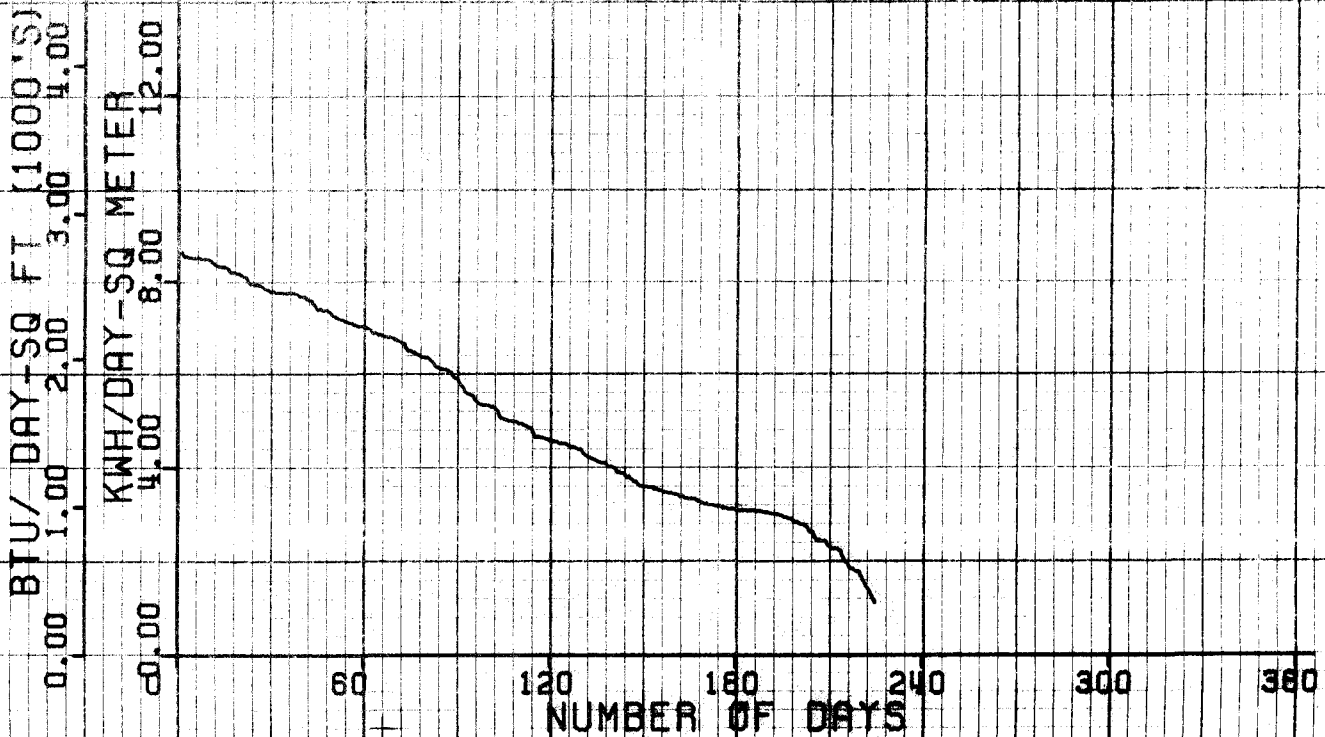
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

PHOENIX, ARIZ.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR PHOENIX, ARIZ.

ACCOUNT/ 82830201
CHANNELS 82830203

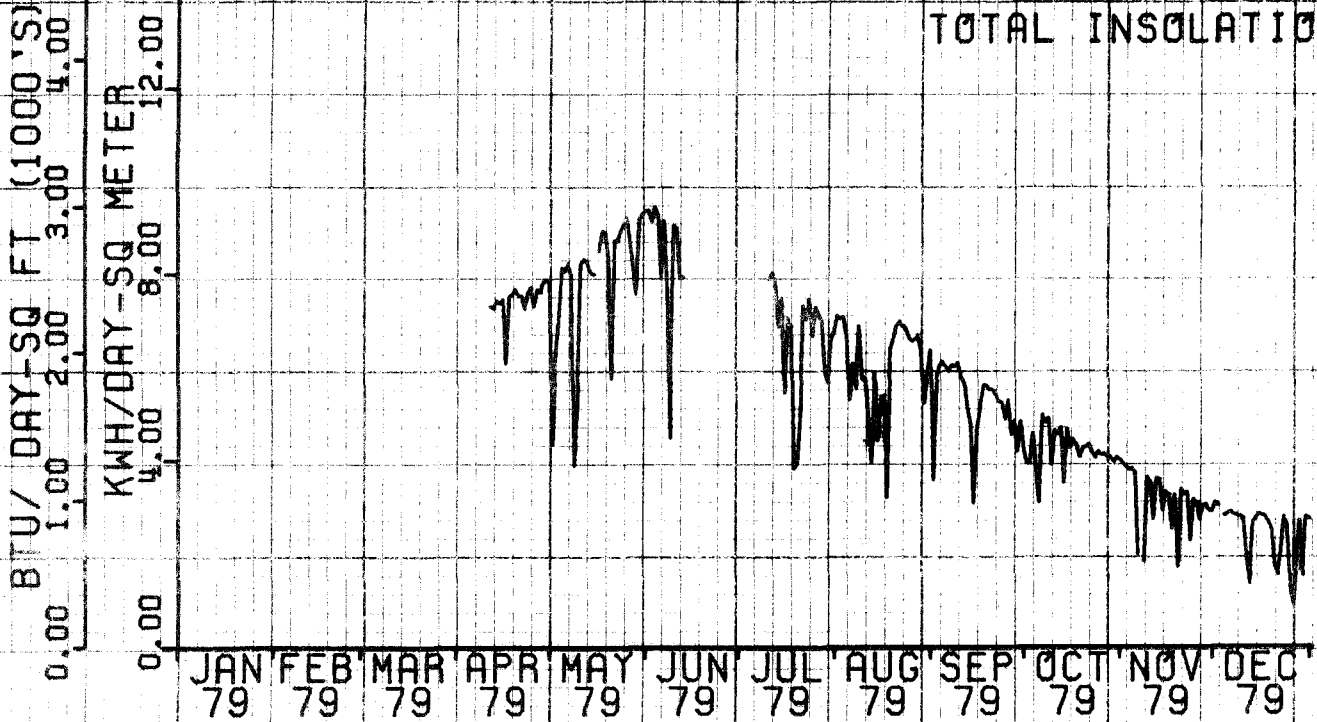
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT	
		350	300	250	200	150	100									
1/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
2/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.0 888.8	1.5 888.8	58.3 888.8	106.0 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	868.	
3/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
4/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
5/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
6/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	32.8 888.8	85.0 888.8	118.7 888.8	148.0 888.8	176.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	2546.	
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	43.0 104.4	143.7 104.6	203.5 104.1	251.7 103.7	305.5 102.9	96.4	101.6	92.0	0.0	278.1	0	13	2390.	
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	18.3 101.2	121.5 101.6	175.2 101.1	226.7 100.5	274.0 99.7	92.1	98.7	86.8	0.0	514.0	0	30	2109.	
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 91.5	61.3 103.0	142.2 102.3	200.0 101.6	245.0 101.0	93.7	100.1	89.0	0.0	541.2	0	29	1802.	
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.8 97.5	89.3 89.2	156.2 88.2	213.7 87.5	78.6	86.6	74.1	6.6	159.4	2	23	1385.	
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 67.7	17.0 74.9	106.3 70.6	174.7 69.5	61.9	68.7	58.7	135.3	0.0	21	0	1073.	
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 59.6	66.5 69.5	137.5 68.4	58.2	66.3	55.1	208.1	0.0	28	0	801.	

*NOTEX

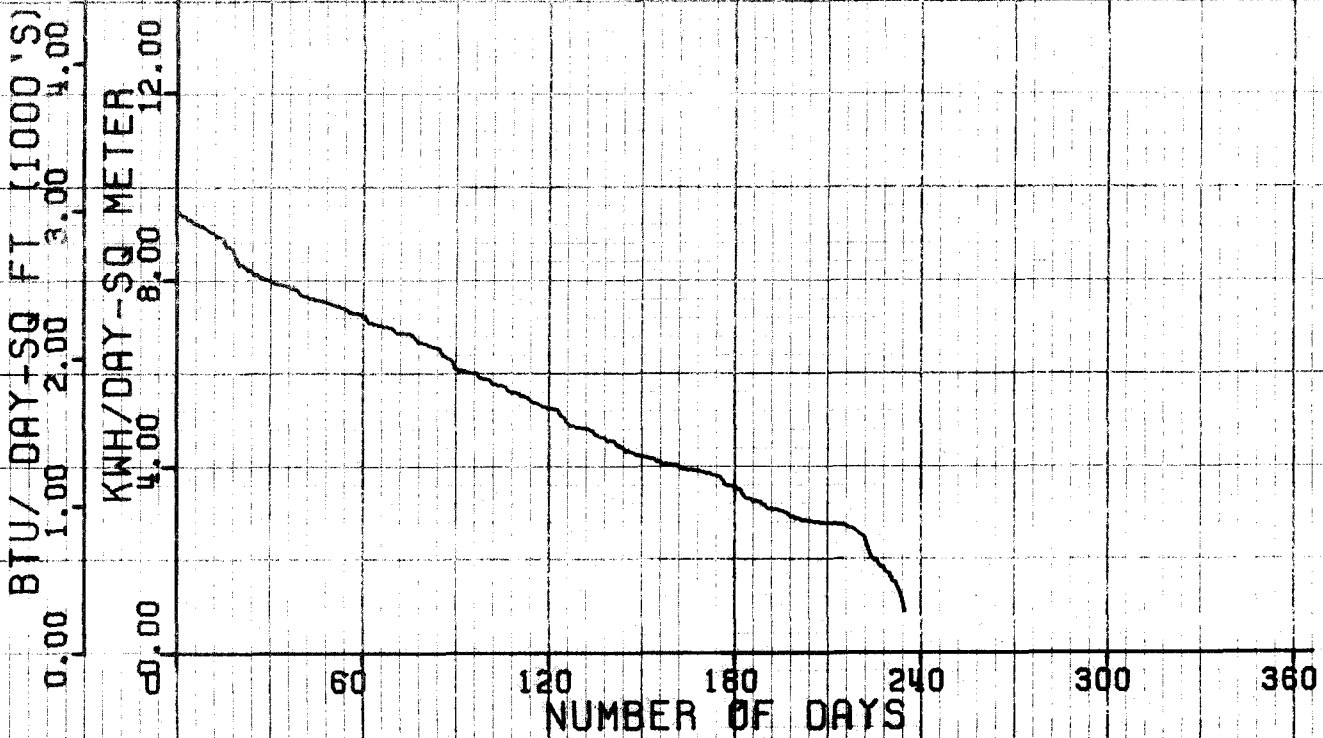
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

SAGUARO, ARIZ.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR SAGUARO, ARIZ.

ACCOUNT/ 82830381
CHANNELS 82830383

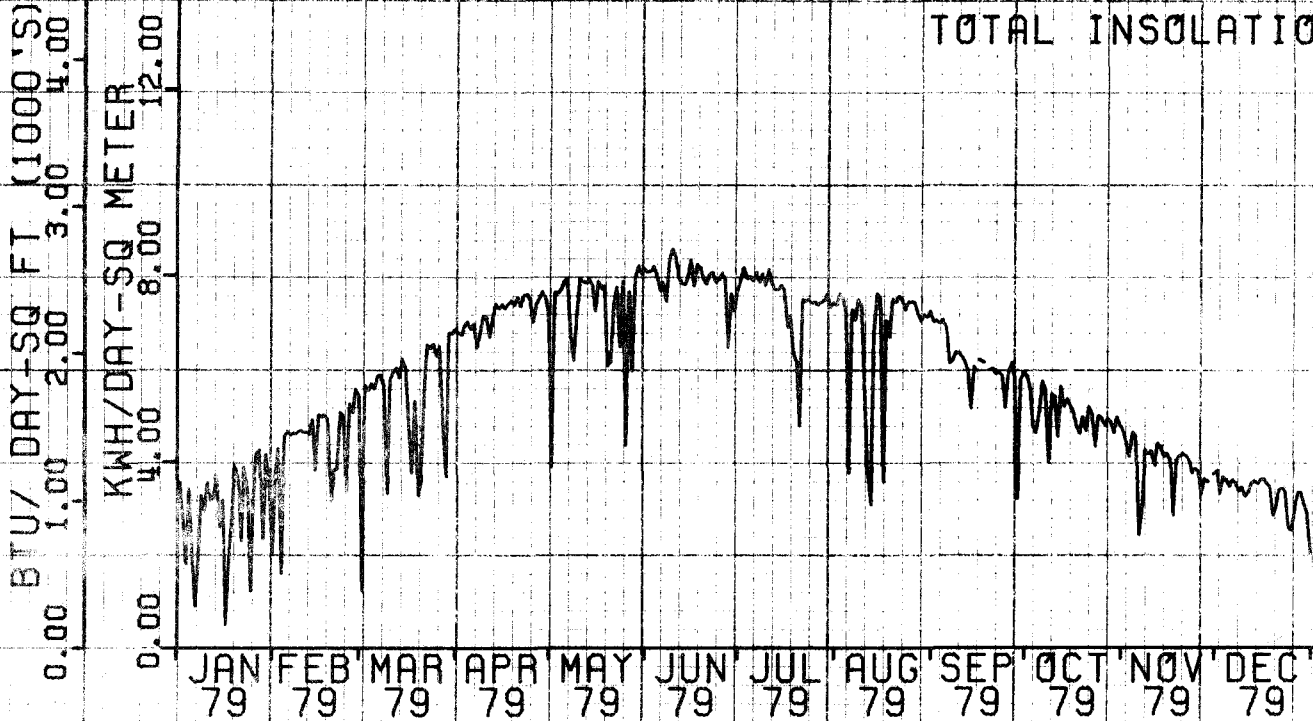
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
2/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
3/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	39.3 82.2	93.0 81.7	129.0 81.4	160.7 80.5	190.0 79.6	68.4	78.5	60.0	23.4	0.0	5	0	2319.
5/79	NUM OF HOURS AVG TEMP (F)	13.5 85.3	91.0 83.7	151.5 82.8	200.0 82.2	246.0 81.3	293.5 80.4	72.0	79.1	65.9	18.8	40.7	4	12	2460.
6/79	NUM OF HOURS AVG TEMP (F)	10.5 94.9	44.3 93.0	62.8 92.4	81.3 91.7	105.3 90.1	120.7 89.7	80.8	88.4	73.8	0.0	77.7	0	10	2605.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	11.5 100.6	79.8 99.4	124.2 98.9	163.0 98.3	199.2 97.5	88.9	96.1	83.4	0.0	306.9	0	22	2030.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	5.0 90.8	95.8 94.8	154.7 94.3	204.0 93.6	251.5 92.8	83.5	91.8	77.9	0.0	265.4	0	29	1857.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	29.3 99.0	118.5 96.5	175.7 95.6	224.2 94.8	85.3	93.8	80.1	0.0	312.8	0	28	1602.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 95.8	66.0 85.9	148.5 84.1	208.2 83.2	72.2	82.3	66.7	30.5	48.9	5	11	1292.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.8 69.2	81.0 66.9	151.0 66.2	54.5	64.8	50.1	306.4	0.0	28	0	936.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	40.8 66.0	121.5 64.8	52.3	63.0	48.6	380.0	0.0	30	0	711.

NOTE

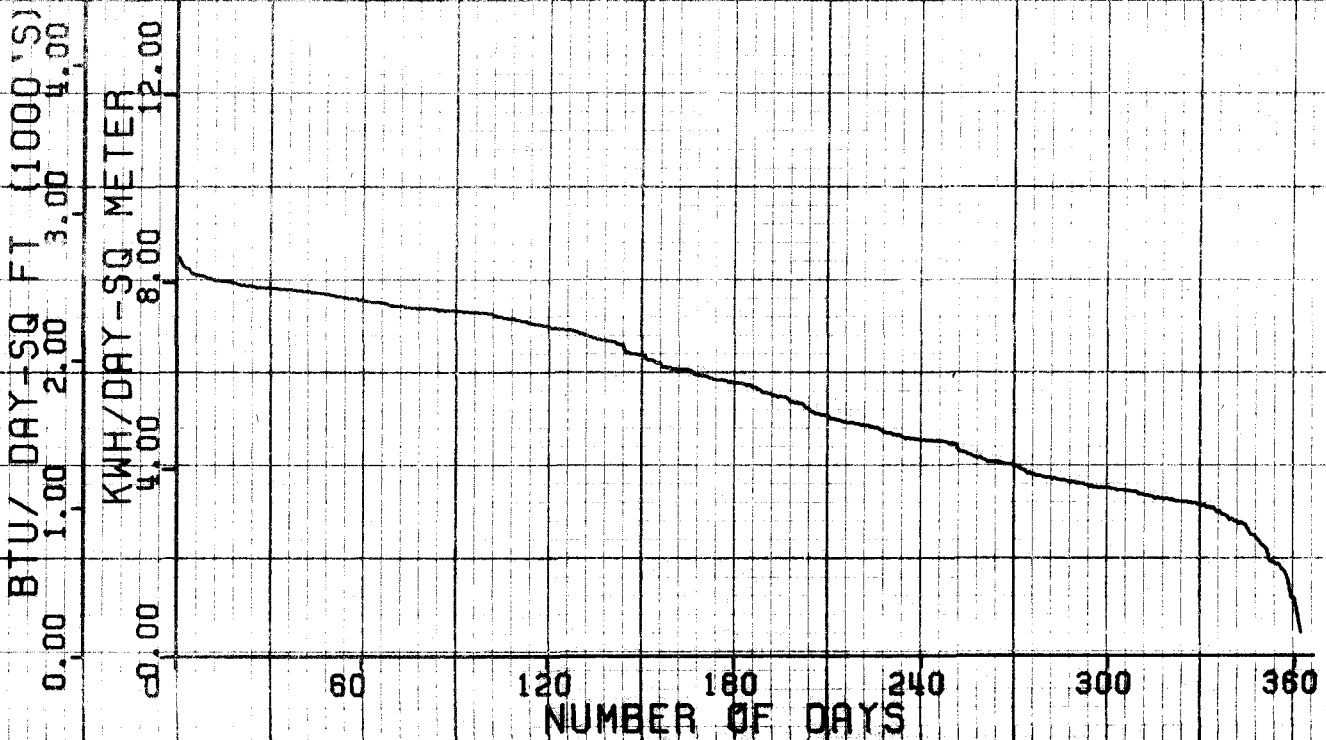
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

IMPERIAL, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR IMPERIAL, CALIF.

ACCOUNT/
CHANNELS 82822121
82822123

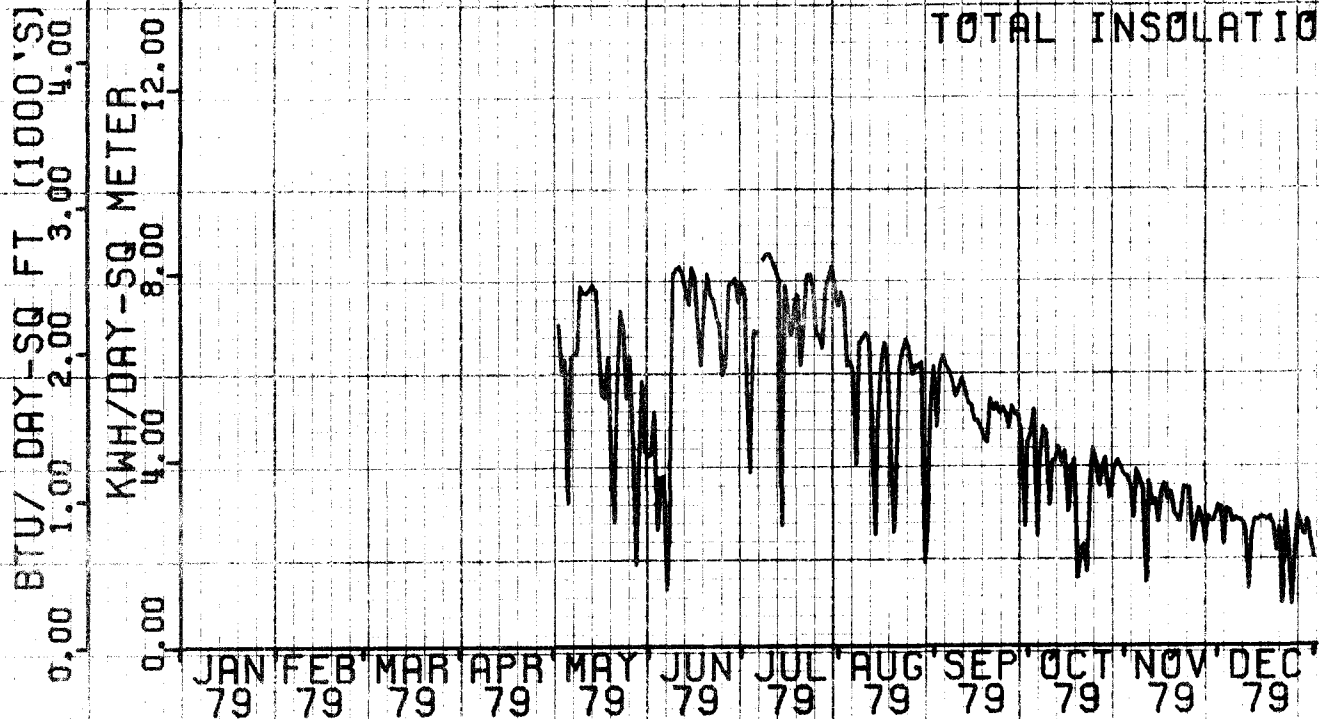
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	10.3 55.0	73.0 57.4	135.7 56.7	48.4	55.6	45.7	513.2	0.0	31	0	841.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.8 67.7	77.3 66.4	140.2 65.5	190.2 64.7	55.0	63.7	50.2	279.5	0.0	28	0	1364.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 58.8	66.8 72.1	128.7 71.9	178.0 71.1	230.0 70.0	60.8	68.7	56.0	143.3	0.0	20	0	1646.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	11.0 80.1	124.2 80.3	188.7 79.4	238.0 79.0	280.2 78.3	69.6	77.6	63.0	14.5	4.6	10	4	2233.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	21.8 86.3	122.7 86.3	192.5 85.5	240.0 84.9	294.5 83.7	75.5	82.6	69.3	6.9	88.2	2	20	2235.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	16.8 93.3	142.5 97.3	211.7 96.7	261.2 96.0	306.2 95.2	86.6	94.3	79.2	0.0	350.9	0	28	2449.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.8 88.4	124.7 100.3	205.7 99.6	259.2 98.8	306.5 98.2	90.7	97.4	84.4	0.0	486.4	0	31	2312.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	8.8 94.7	118.7 97.4	171.5 97.1	225.0 96.4	270.5 95.7	87.7	94.8	82.2	0.0	393.7	0	31	2074.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	71.0 99.2	147.7 98.9	203.2 98.3	250.0 97.6	89.3	96.7	83.8	0.0	428.4	0	30	1866.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	10.5 93.6	109.8 85.9	176.5 85.1	234.5 84.3	75.0	83.3	69.7	9.3	83.5	3	16	1543.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	35.8 70.9	129.5 69.2	190.2 68.4	58.1	67.5	53.2	192.9	0.0	28	0	1196.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	98.5 66.2	170.0 65.1	53.9	63.7	49.4	344.9	0.0	31	0	988.

NOTE

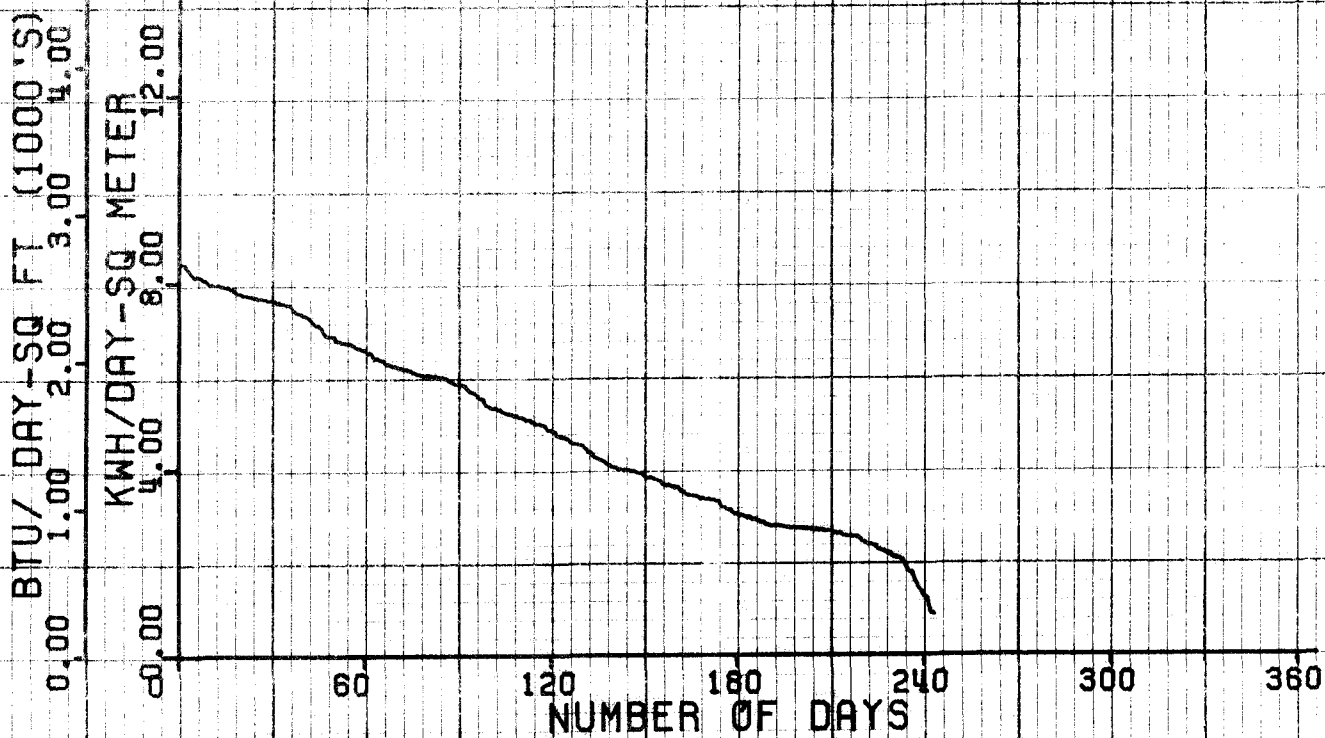
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

INGLEWOOD, CALIF
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR INGLEWOOD, CALIF

ACCOUNT/ CHANNELS 82820711
82820713

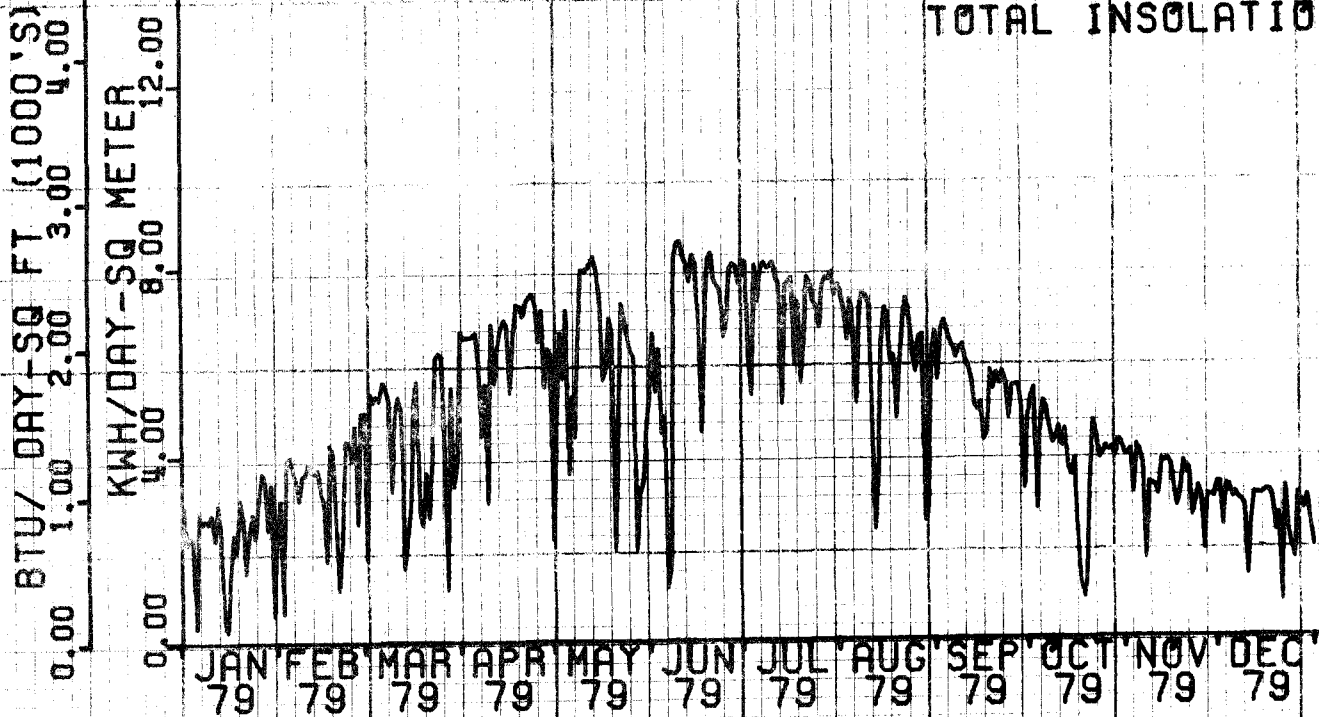
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
2/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
3/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
4/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
5/79	NUM OF HOURS AVG TEMP (F)	0.0	10.5	85.8	134.7	173.5	222.0	58.9	63.9	55.5	196.2	1.4	27	1	1714.
		0.0	72.3	66.8	66.3	65.9	65.0								
6/79	NUM OF HOURS AVG TEMP (F)	0.0	24.3	110.5	155.7	195.5	240.7	65.1	71.7	60.0	58.8	11.8	18	2	1957.
		0.0	77.4	75.3	74.8	74.1	73.1								
7/79	NUM OF HOURS AVG TEMP (F)	0.0	40.8	129.5	181.2	221.2	265.2	64.4	69.8	60.1	39.1	0.0	19	0	2177.
		0.0	72.9	72.3	72.0	71.5	70.9								
8/79	NUM OF HOURS AVG TEMP (F)	0.0	3.3	61.0	127.2	175.7	231.5	66.6	72.2	62.9	7.3	0.0	7	0	1655.
		0.0	71.4	74.3	74.3	74.0	73.3								
9/79	NUM OF HOURS AVG TEMP (F)	0.0	0.0	12.0	102.0	174.0	225.5	70.0	76.5	65.9	5.8	12.3	4	5	1542.
		0.0	0.0	75.5	77.3	77.9	77.4								
10/79	NUM OF HOURS AVG TEMP (F)	0.0	0.0	0.0	32.5	107.0	168.7	62.3	68.2	59.5	87.8	0.0	26	0	1063.
		0.0	0.0	0.0	71.2	69.8	69.2								
11/79	NUM OF HOURS AVG TEMP (F)	0.0	0.0	0.0	0.0	60.8	148.5	56.3	64.2	52.8	259.8	0.0	30	0	887.
		0.0	0.0	0.0	0.0	67.1	65.8								
12/79	NUM OF HOURS AVG TEMP (F)	0.0	0.0	0.0	0.0	12.8	121.5	55.0	64.3	51.6	312.4	0.0	30	0	696.
		0.0	0.0	0.0	0.0	69.3	66.4								

NOTE

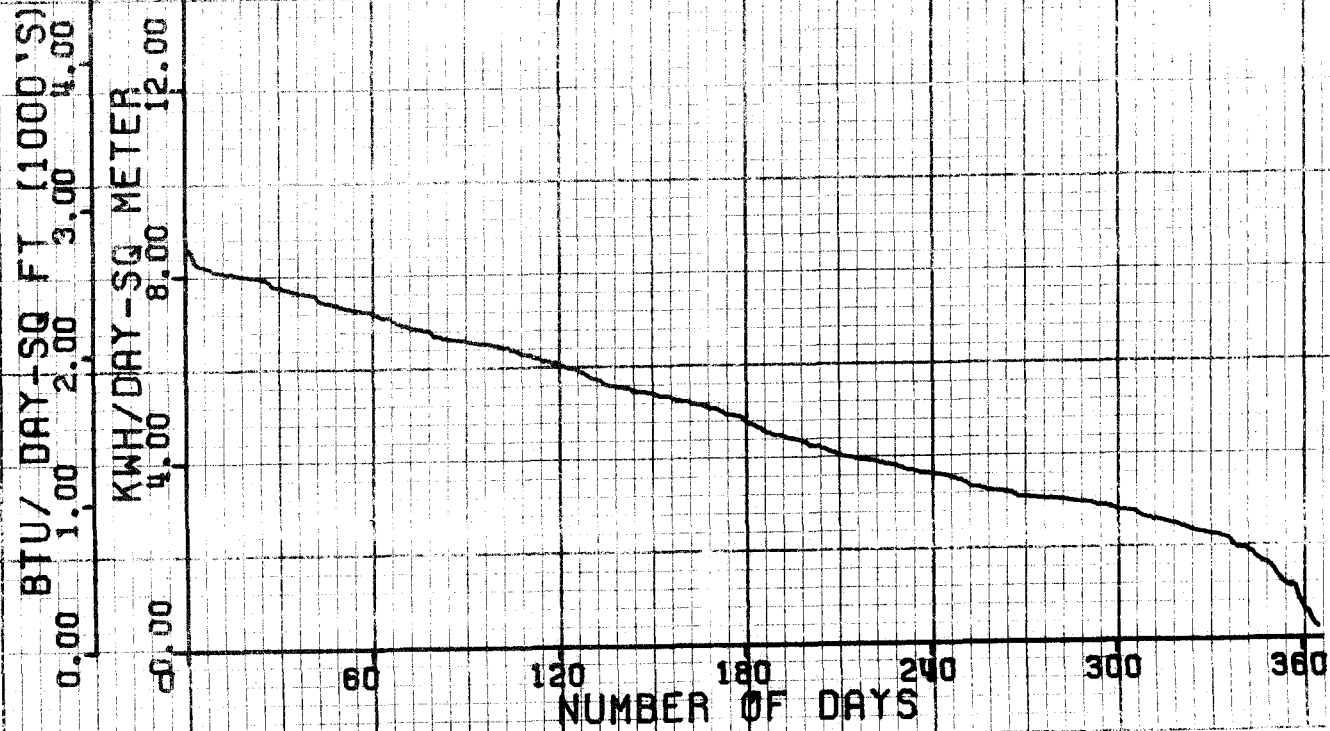
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

LOS ANGELES, CA.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR LOS ANGELES, CA.

ACCOUNT/ 82820141
CHANNELS 82820143

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.0 58.2	41.8 57.9	105.5 58.2	52.1	57.7	50.4	401.2	0.0	31	0	642.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	1.3 57.7	26.8 62.4	87.3 63.0	143.2 62.0	53.5	60.2	50.5	309.4	0.0	27	0	1010.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 58.7	22.5 64.8	86.3 66.2	133.0 65.3	185.2 64.0	56.8	62.6	53.9	254.1	0.0	28	0	1286.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	7.5 69.0	96.3 70.8	154.2 70.0	197.5 69.2	244.5 68.2	61.7	67.2	57.7	106.8	0.0	25	0	1910.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	20.5 79.5	90.5 74.8	133.7 73.8	174.5 72.6	232.2 71.1	64.1	69.5	60.4	81.6	10.2	22	2	1778.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	49.8 84.5	119.5 82.9	169.2 81.6	213.5 80.5	254.7 79.4	70.8	78.0	65.4	9.9	50.1	7	8	2097.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	38.5 81.4	135.2 81.3	190.7 80.6	239.0 79.7	285.2 78.8	71.4	77.6	66.1	0.6	2.0	2	3	2249.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	3.0 83.9	92.3 81.6	145.0 80.9	193.7 80.4	243.7 79.4	71.8	77.9	67.4	0.0	10.2	0	7	1843.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	40.0 85.8	124.2 85.7	185.2 84.9	235.7 83.8	75.4	82.6	70.6	0.0	68.4	0	13	1690.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 75.6	51.5 75.5	127.7 74.3	177.7 73.5	65.7	72.3	62.5	28.2	0.0	13	0	1145.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	6.0 73.5	89.5 69.0	160.2 67.7	59.6	66.5	56.4	163.4	0.0	29	0	985.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 70.4	52.3 68.0	134.0 68.0	58.4	66.4	55.2	219.3	0.0	26	0	789.

NOTE

AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

SAN PEDRO, CALIF
TOTAL INSOLATION

BTU/ DAY-SQ FT (1000'S)
0.00 1.00 2.00 3.00 4.00
KWH/DAY-SQ METER
0.00 4.00 8.00 12.00

JAN '79 FEB '79 MAR '79 APR '79 MAY '79 JUN '79 JUL '79 AUG '79 SEP '79 OCT '79 NOV '79 DEC '79

ANNUAL SOLAR DURATION CURVE

BTU/ DAY-SQ FT (1000'S)
0.00 1.00 2.00 3.00 4.00
KWH/DAY-SQ METER
0.00 4.00 8.00 12.00

60 120 180 240 300 360
NUMBER OF DAYS

W

BUILDING APPLICATIONS DATA FOR SAN PEDRO, CALIF

ACCOUNT/ 82820971
CHANNELS 82820973

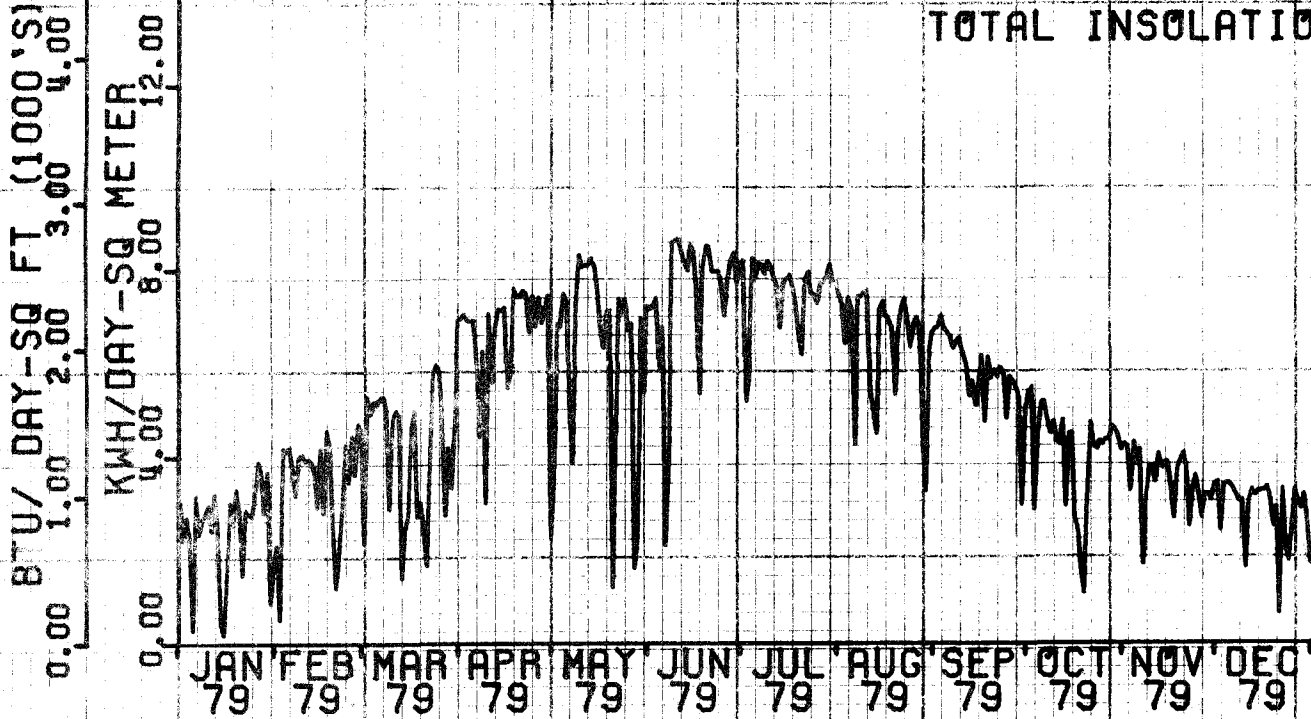
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
2/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
3/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
4/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
5/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
6/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
7/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
8/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
9/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
10/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA													
11/79	NUM OF HOURS AVG TEMP' (F)	0.0	0.0	0.0	0.0	36.8	71.3	59.6	65.3	57.1	70.8	0.0	12	0	917.
		0.0	0.0	0.0	0.0	67.0	66.4								
12/79	NUM OF HOURS AVG TEMP' (F)	888.8	888.8	888.8	888.8	888.8	888.8	55.2	8888.0	8888.0	166.5	0.0	17	0	8888.
		888.8	888.8	888.8	888.8	888.8	888.8								

NOTE

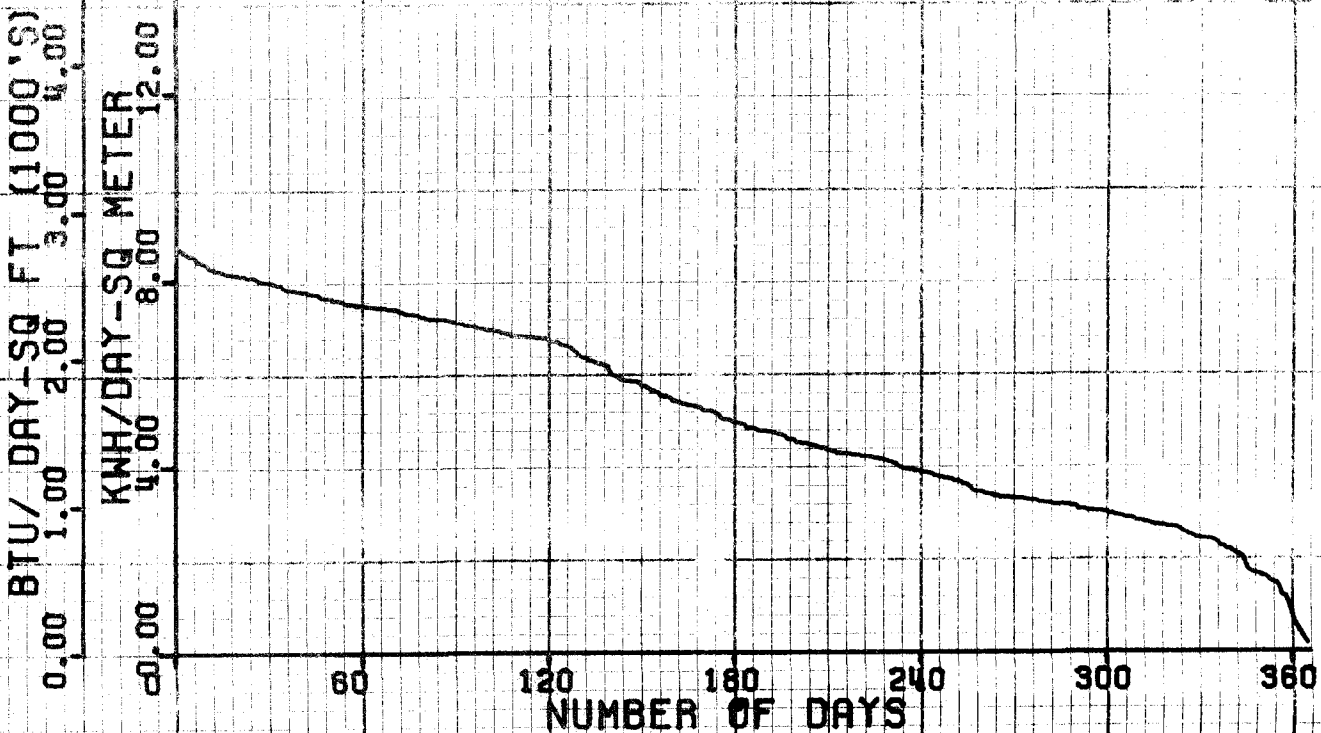
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

SUN VALLEY, CAL.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR SUN VALLEY, CAL.

ACCOUNT/ CHANNELS 82820301
82820303

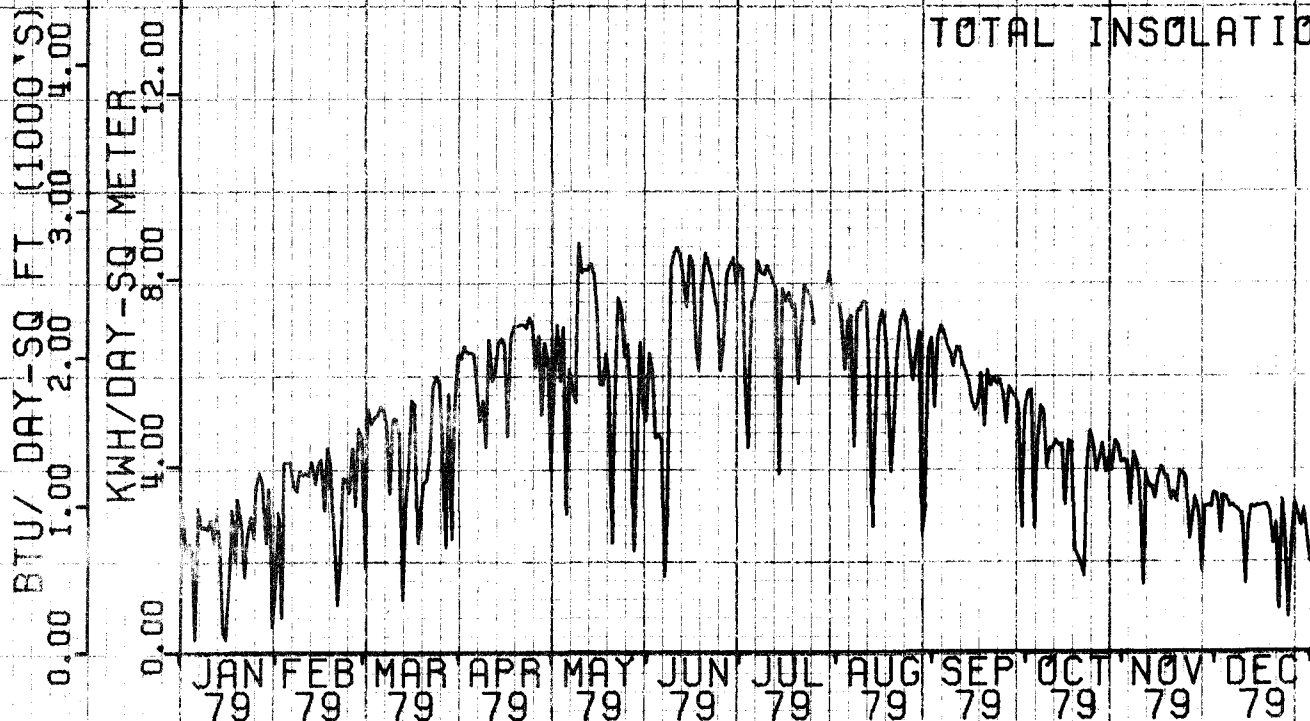
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	2.3 52.6	52.0 57.8	112.2 57.9	49.9	56.9	47.6	469.4	0.0	31	0	695.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	1.8 56.6	37.5 63.0	95.8 63.1	145.7 62.2	52.6	60.6	49.1	334.8	0.0	27	0	1032.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.8 59.2	19.5 64.4	82.3 67.2	128.7 66.1	181.0 64.9	55.7	63.1	52.1	294.1	0.0	28	0	1251.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	12.8 68.7	110.3 71.3	163.2 70.5	207.5 69.8	256.2 68.8	61.0	67.6	56.0	125.4	0.0	26	0	2029.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	36.5 76.9	113.7 74.8	155.7 74.3	198.2 73.4	243.2 72.4	63.8	70.7	58.9	93.1	9.2	22	3	1936.
6/79	NUM OF HOURS AVG TEMP (F)	0.3 68.2	59.3 85.9	137.5 84.5	186.0 83.6	233.7 82.7	278.5 81.4	71.8	79.8	64.9	13.0	71.7	9	10	2319.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	41.3 87.0	143.7 85.7	202.0 84.7	251.0 83.7	296.5 82.6	73.7	81.3	66.9	3.0	34.1	3	12	2340.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	3.8 89.8	105.0 83.7	165.5 82.9	214.0 82.0	265.2 81.3	72.7	79.9	67.3	0.0	23.7	0	9	1998.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	59.8 92.3	142.2 90.5	196.2 89.4	245.7 88.3	77.4	87.1	70.7	0.0	113.5	0	18	1796.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	1.5 80.1	74.3 76.8	135.0 75.8	188.2 74.9	65.6	73.6	61.5	34.3	0.8	19	1	1236.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	17.8 71.7	105.3 70.4	168.5 69.2	58.5	67.9	54.1	194.0	0.0	30	0	1055.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	71.8 71.4	142.0 69.5	57.3	67.5	53.2	257.8	1.2	28	1	845.

NOTE

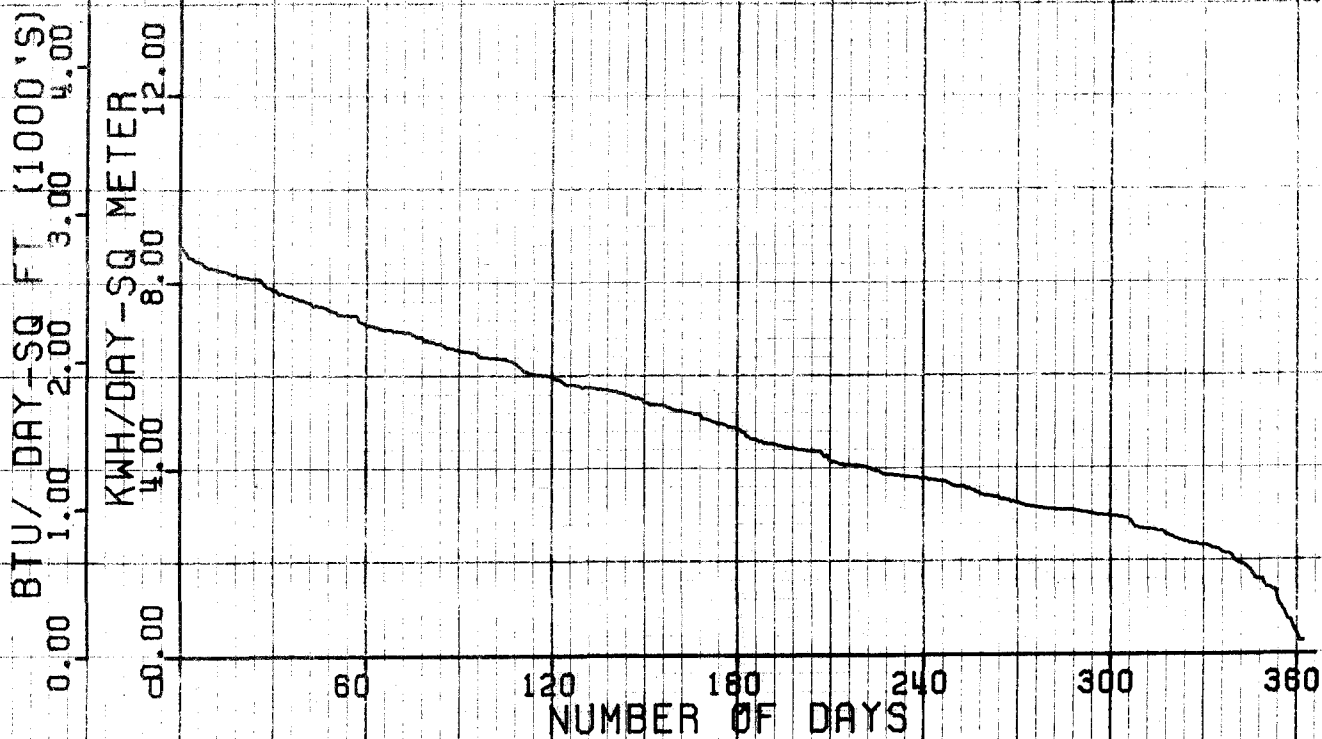
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

WEST L.A., CALIF
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR WEST L.A., CALIF

ACCOUNT/ 82820551
CHANNELS 82820553

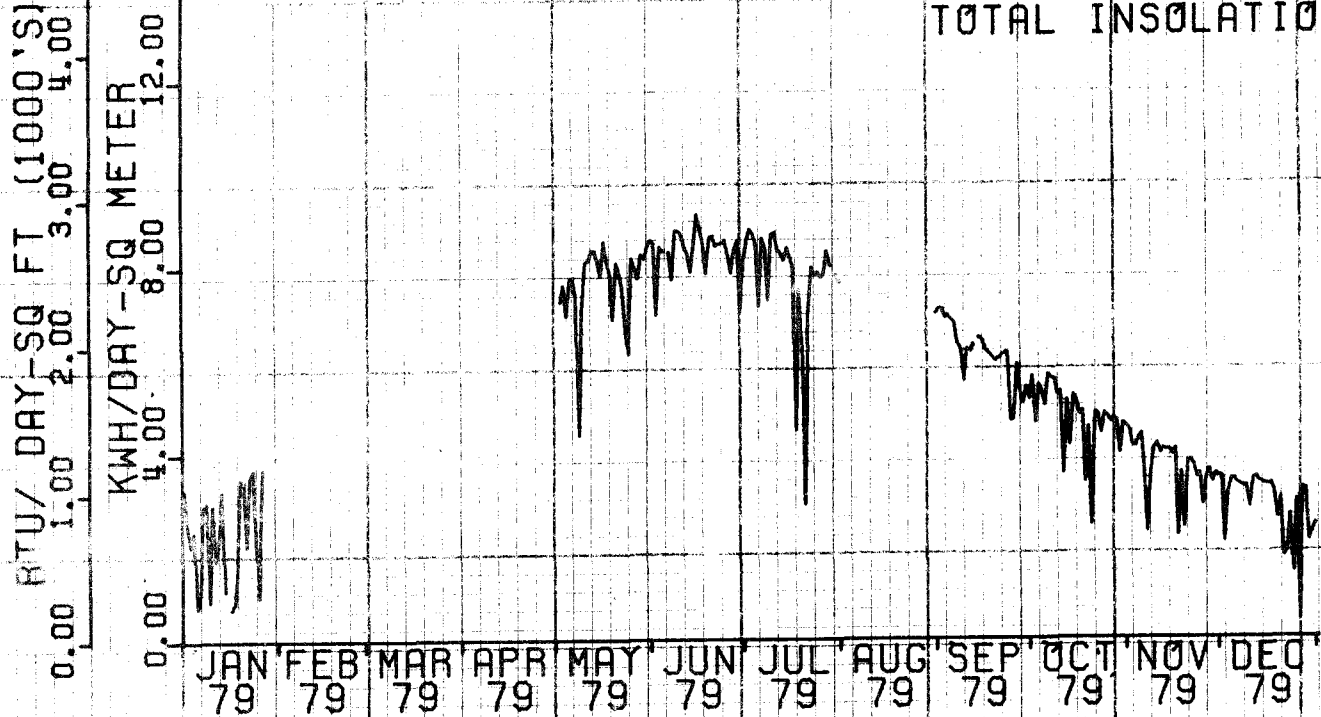
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 59.6	43.8 59.0	109.5 59.5	52.2	58.5	50.2	396.6	0.0	31	0	665.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.8 58.3	30.0 63.0	95.8 62.7	150.5 61.9	53.5	60.5	50.4	320.6	0.0	28	0	1044.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 62.0	20.3 62.7	87.5 65.7	139.5 65.0	189.2 64.1	56.8	62.8	53.7	267.0	0.0	28	0	1301.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 66.8	86.3 68.8	150.0 68.5	200.2 68.1	252.0 67.4	61.2	66.5	57.3	118.6	0.0	26	0	1912.
5/79	NUM OF HOURS AVG TEMP (F)	2.0 67.3	28.3 75.8	96.3 72.5	143.5 71.7	190.7 70.7	239.5 69.9	63.5	68.6	59.9	95.7	13.9	24	2	1863.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	56.0 79.6	126.0 78.8	174.7 78.1	216.2 77.4	260.0 76.7	68.8	75.2	63.7	19.6	37.8	15	5	2165.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	48.5 76.2	133.5 76.4	187.5 76.1	234.0 75.7	277.5 75.1	68.8	74.4	64.2	4.9	0.0	3	0	2270.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	11.5 77.0	99.5 77.8	150.7 77.5	197.2 77.1	247.5 76.6	69.9	75.7	65.9	0.0	0.3	0	1	1879.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	61.8 82.6	138.5 82.6	192.7 82.2	238.0 81.5	73.5	80.5	68.8	0.3	44.4	1	10	1761.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	5.3 75.7	69.3 73.2	131.7 72.6	182.7 72.0	64.8	71.1	61.7	33.7	0.0	19	0	1215.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	13.0 69.1	98.5 70.3	161.7 69.1	60.9	67.8	57.7	139.7	0.0	22	0	1014.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	57.8 72.1	137.0 69.9	60.2	68.3	57.1	187.7	2.7	24	1	802.

NOTE

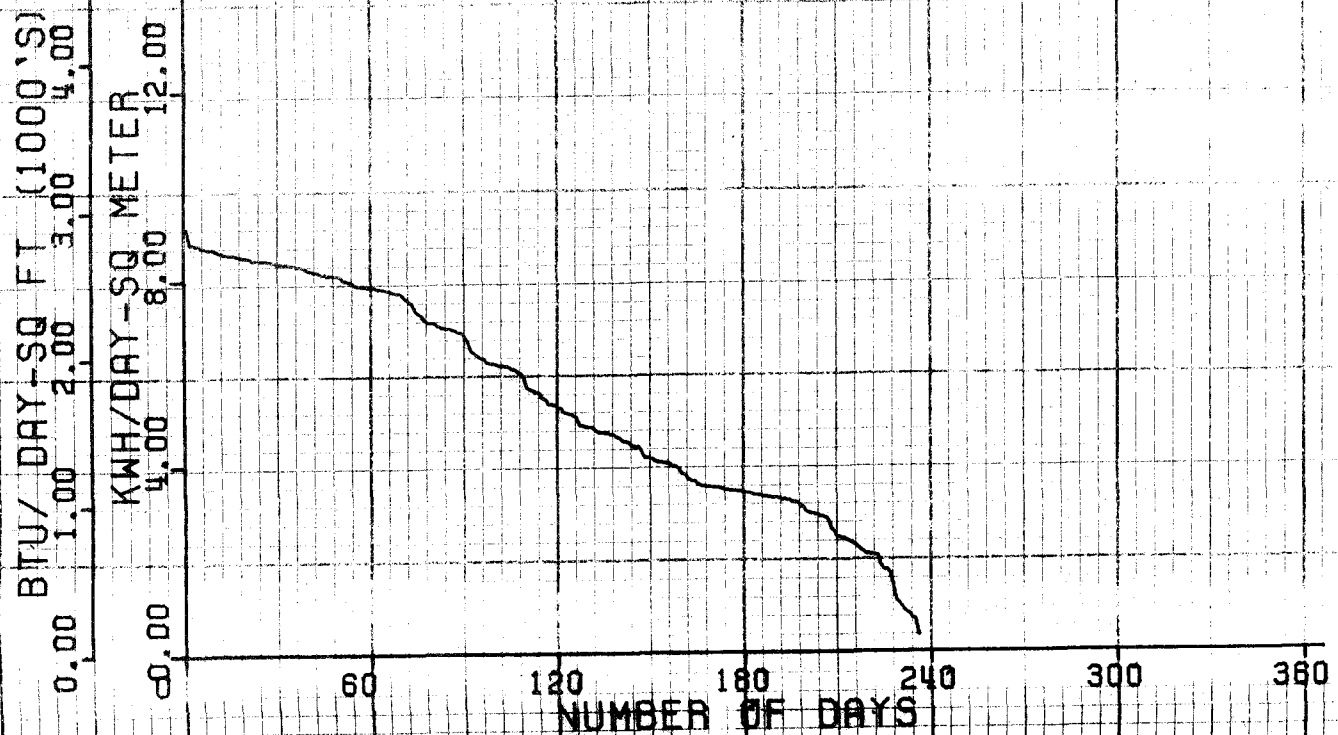
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

BOULDER CITY NEV
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR BOULDER CITY NEV

ACCOUNT/ 82840281
CHANNELS 82840283

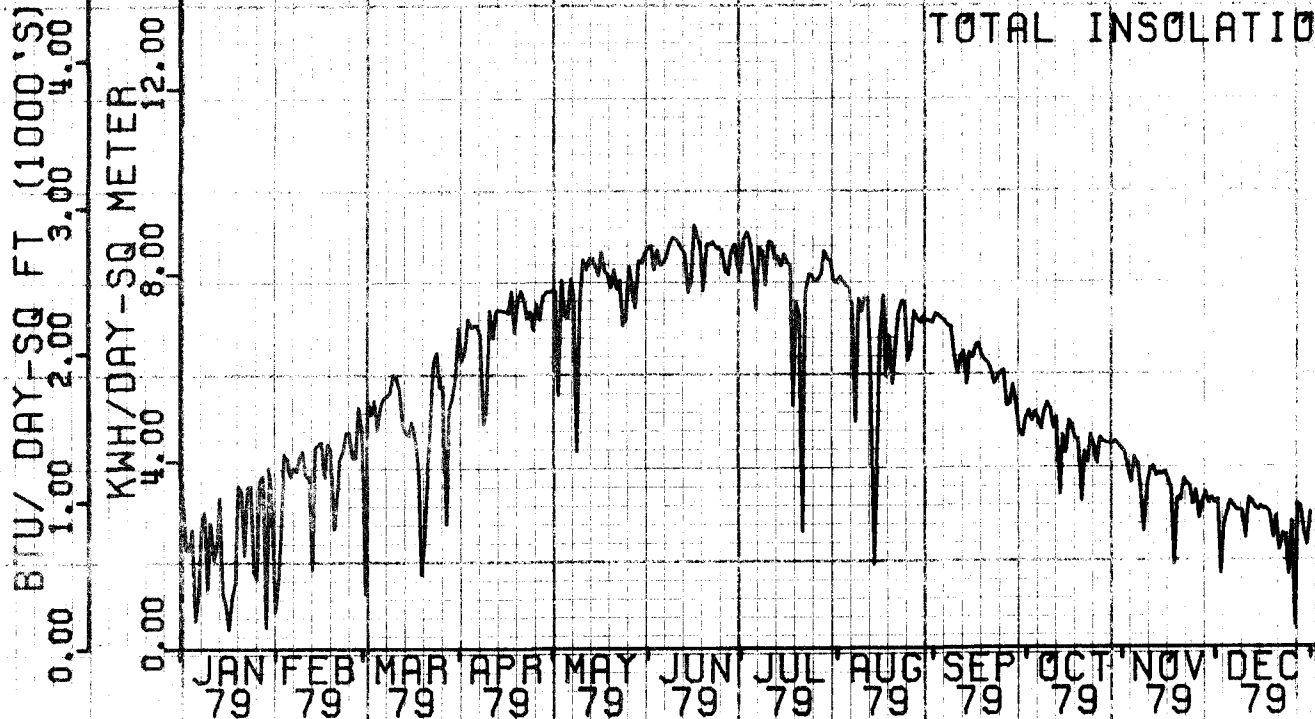
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT	
		350	300	250	200	150	100									
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 39.4	38.3 42.9	80.8 42.6	40.3	42.1	39.5	618.0	0.0	25	0	610.	
2/79	NUM OF HOURS AVG TEMP (F)	----- INSUFFICIENT DATA -----														
3/79	NUM OF HOURS AVG TEMP (F)	----- INSUFFICIENT DATA -----														
4/79	NUM OF HOURS AVG TEMP (F)	----- INSUFFICIENT DATA -----														
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	68.0 79.8	142.5 79.5	203.5 79.0	251.5 78.4	297.5 78.0	73.0	77.4	69.1	37.2	61.4	5	16	2372.	
6/79	NUM OF HOURS AVG TEMP (F)	0.3 101.0	82.3 91.0	156.7 91.0	212.7 90.6	260.5 90.2	306.2 89.6	84.4	88.9	80.1	0.0	290.6	0	25	2586.	
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	63.5 95.2	147.5 95.3	200.0 95.0	249.0 94.2	302.7 93.4	86.4	92.5	82.1	0.0	91.0	0	8	2399.	
8/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	87.8	8888.0	8888.0	0.0	12.8	0	1	8888.	
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 94.4	77.5 93.2	150.0 92.6	204.0 92.0	251.5 91.5	86.0	90.7	82.5	0.0	329.9	0	30	1876.	
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 89.5	9.8 87.9	98.3 78.8	164.5 77.7	222.7 76.9	71.6	75.7	68.7	35.2	49.3	6	11	1453.	
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 68.9	26.0 61.3	115.5 57.4	174.5 56.7	52.8	56.1	51.2	366.6	0.0	30	0	1099.	
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	69.3 54.7	142.2 53.8	48.9	52.7	47.5	498.7	0.0	31	0	826.	

NOTE

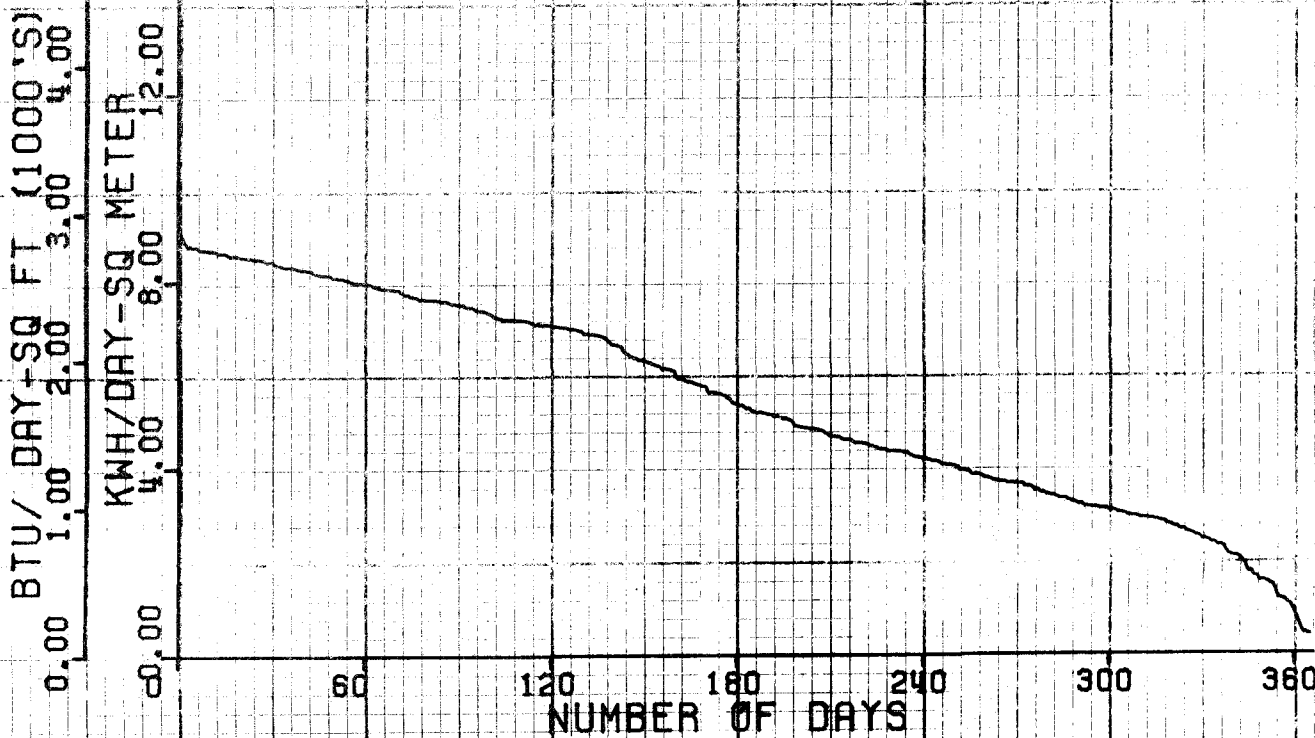
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

LAS VEGAS, NEV.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR LAS VEGAS, NEV.

ACCOUNT/ 82840101
CHANNELS 82840103

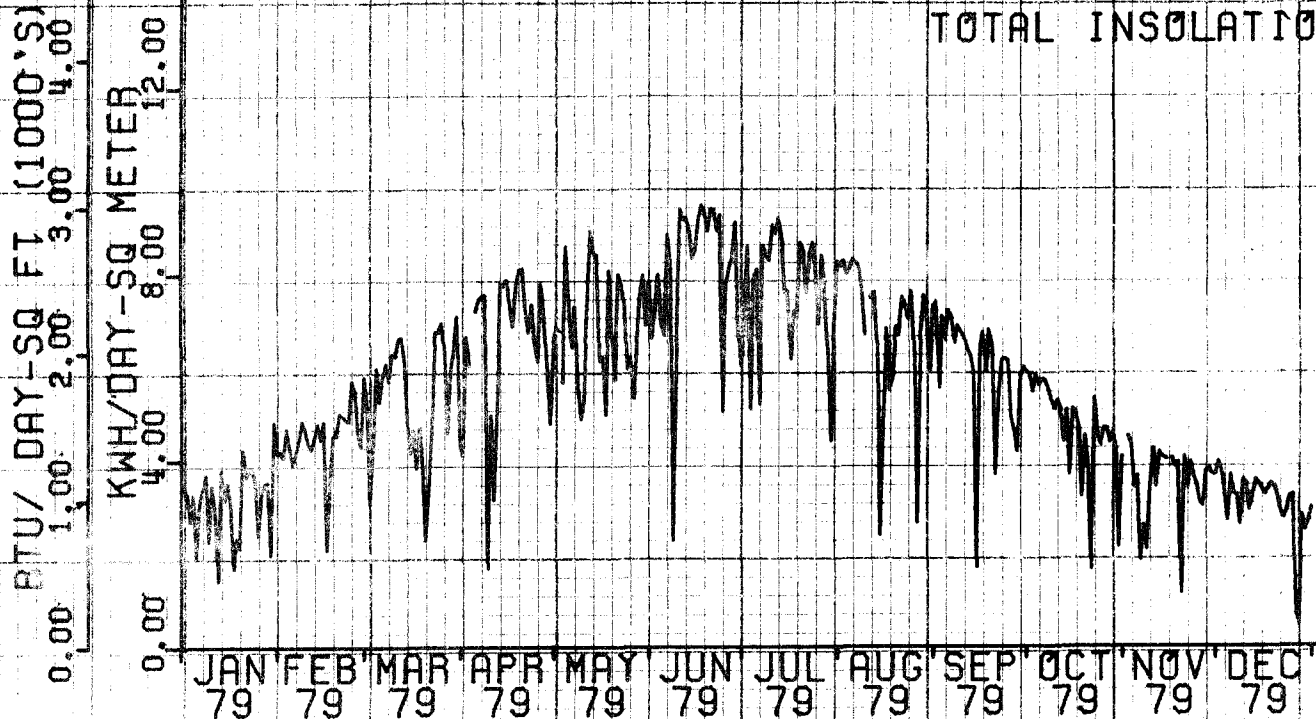
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 35.2	41.8 45.4	89.5 46.3	40.6	45.6	39.2	757.3	0.0	31	0	598.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 57.2	48.0 57.7	112.0 56.6	163.2 55.7	47.9	54.8	44.5	480.1	0.0	28	0	1155.
3/79	NUM OF HOURS AVG TEMP (F)	0.3 65.0	2.5 62.1	37.5 65.8	102.5 65.3	156.0 64.6	202.7 63.8	55.2	62.1	51.2	305.0	0.0	31	0	1455.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	27.0 74.1	118.7 74.1	175.0 73.8	225.2 73.4	271.5 72.8	65.4	72.1	60.0	78.1	0.8	14	2	2159.
5/79	NUM OF HOURS AVG TEMP (F)	0.8 0.0	68.8 77.3	144.5 76.1	201.0 75.0	250.2 74.1	296.2 73.2	8888.0	72.1	62.9	8888.0	8888.0	888	888	2374.
6/79	NUM OF HOURS AVG TEMP (F)	0.5 888.8	90.0 888.8	163.2 888.8	216.7 888.8	264.0 888.8	309.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	2615.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	72.5 888.8	150.0 888.8	206.7 888.8	254.5 888.8	301.7 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	2437.
8/79	NUM OF HOURS AVG TEMP (F)	0.3 888.8	16.3 888.8	108.3 888.8	165.2 888.8	219.0 888.8	272.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	2055.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.5 888.8	73.3 888.8	147.0 888.8	204.7 888.8	250.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	1855.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.5 888.8	80.0 888.8	158.5 888.8	214.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	1365.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.0 888.8	11.0 888.8	100.0 888.8	167.2 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	1014.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.0 888.8	0.5 888.8	50.5 888.8	131.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	773.

NOTE

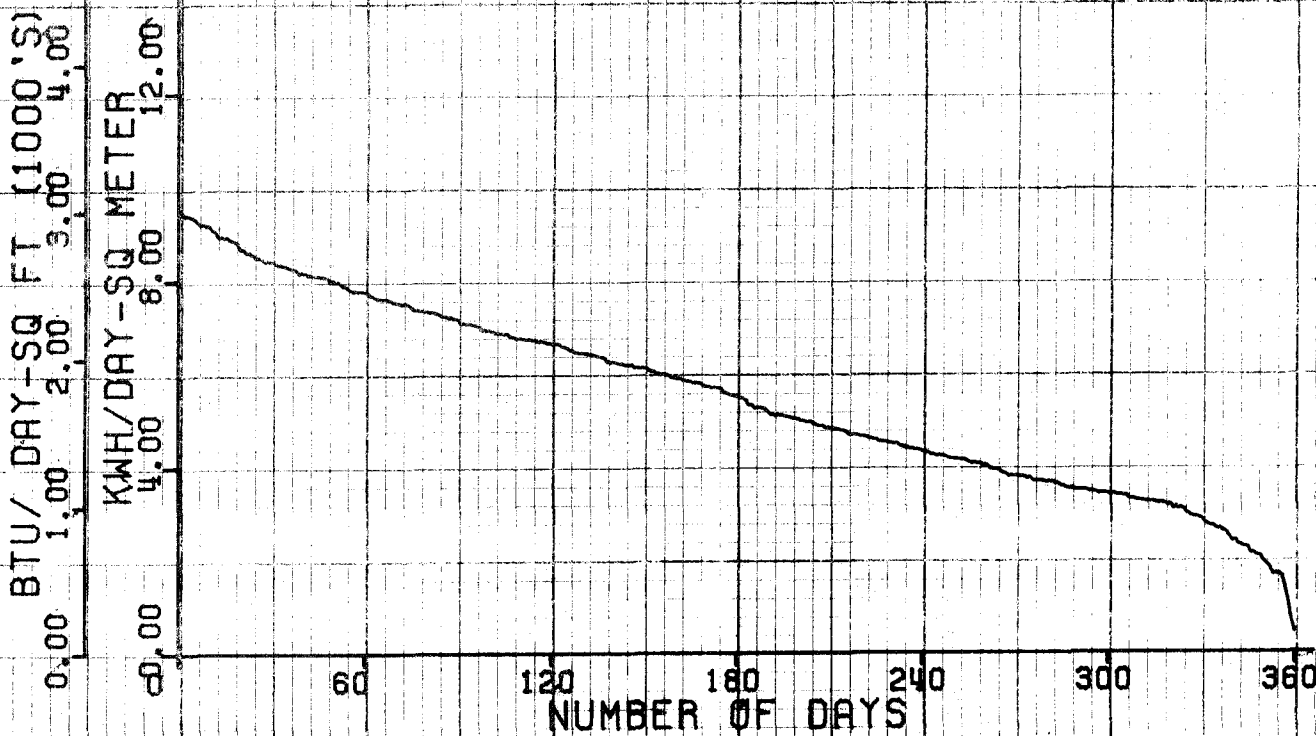
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

ALAMOSA, COLO.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR ALAMOSA, COLO.

ACCOUNT/ 82850171
CHANNELS 82850173

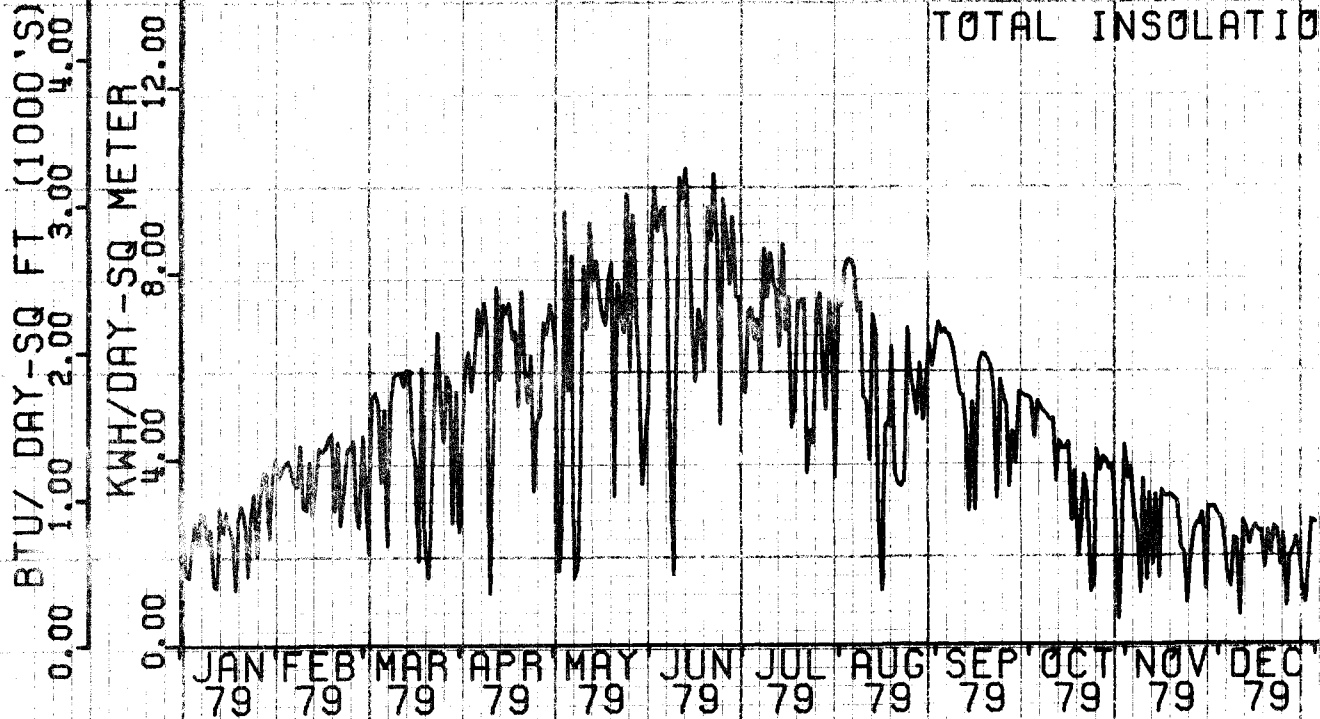
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 19.8	12.3 18.6	82.8 20.5	156.0 20.0	13.2	19.2	10.6	1607.1	0.0	31	0	935.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 30.2	13.8 32.0	84.0 29.4	139.7 28.1	187.2 27.0	18.5	26.1	14.4	1302.3	0.0	28	0	1382.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	5.0 50.8	59.5 45.0	120.2 44.8	170.5 44.6	230.0 44.0	37.0	43.1	33.2	868.6	0.0	31	0	1629.
4/79	NUM OF HOURS AVG TEMP (F)	0.8 67.3	47.8 63.2	103.5 62.0	152.2 61.2	200.7 60.1	252.7 58.9	49.9	57.8	44.0	436.5	0.0	29	0	2001.
5/79	NUM OF HOURS AVG TEMP (F)	6.3 70.7	60.8 68.3	106.3 67.8	157.2 67.1	210.7 66.6	268.7 65.8	58.2	64.7	52.6	207.1	0.0	28	0	2111.
6/79	NUM OF HOURS AVG TEMP (F)	4.8 81.9	90.3 79.4	143.0 78.8	195.0 77.7	241.5 77.1	289.0 76.3	68.0	75.2	61.5	48.5	2.5	7	3	2471.
7/79	NUM OF HOURS AVG TEMP (F)	1.3 86.6	91.0 84.8	142.2 83.8	191.5 83.1	238.7 82.3	289.0 81.4	73.1	80.2	67.1	0.0	20.1	0	10	2361.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	55.5 82.4	119.7 81.4	171.0 80.4	221.0 79.4	269.2 78.6	69.6	77.3	63.8	12.9	7.4	8	6	2112.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	4.5 81.5	91.8 78.8	148.0 77.5	190.5 76.9	235.2 76.0	65.1	74.6	58.6	74.5	0.0	15	0	1834.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	17.3 74.8	101.5 68.7	160.5 67.5	211.5 66.3	54.7	64.8	49.2	318.5	0.0	31	0	1422.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	30.3 37.7	107.0 34.2	168.2 33.3	23.7	31.9	20.6	661.4	0.0	16	0	1059.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 31.9	90.3 37.7	158.5 35.8	26.2	34.4	22.9	1163.1	0.0	30	0	906.

*NOTEX

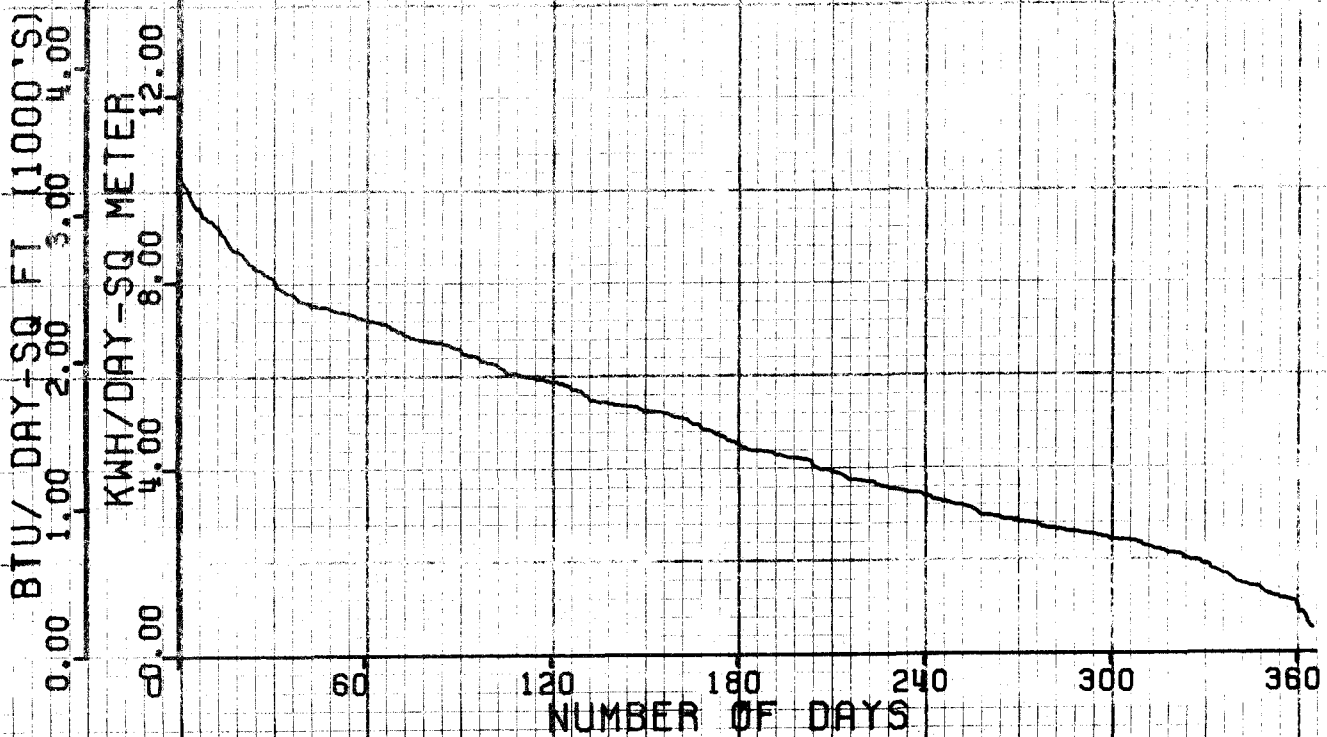
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

CHEYENNE, WYO.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR CHEYENNE, WYO.

ACCOUNT/ 82850581
CHANNELS 82850583

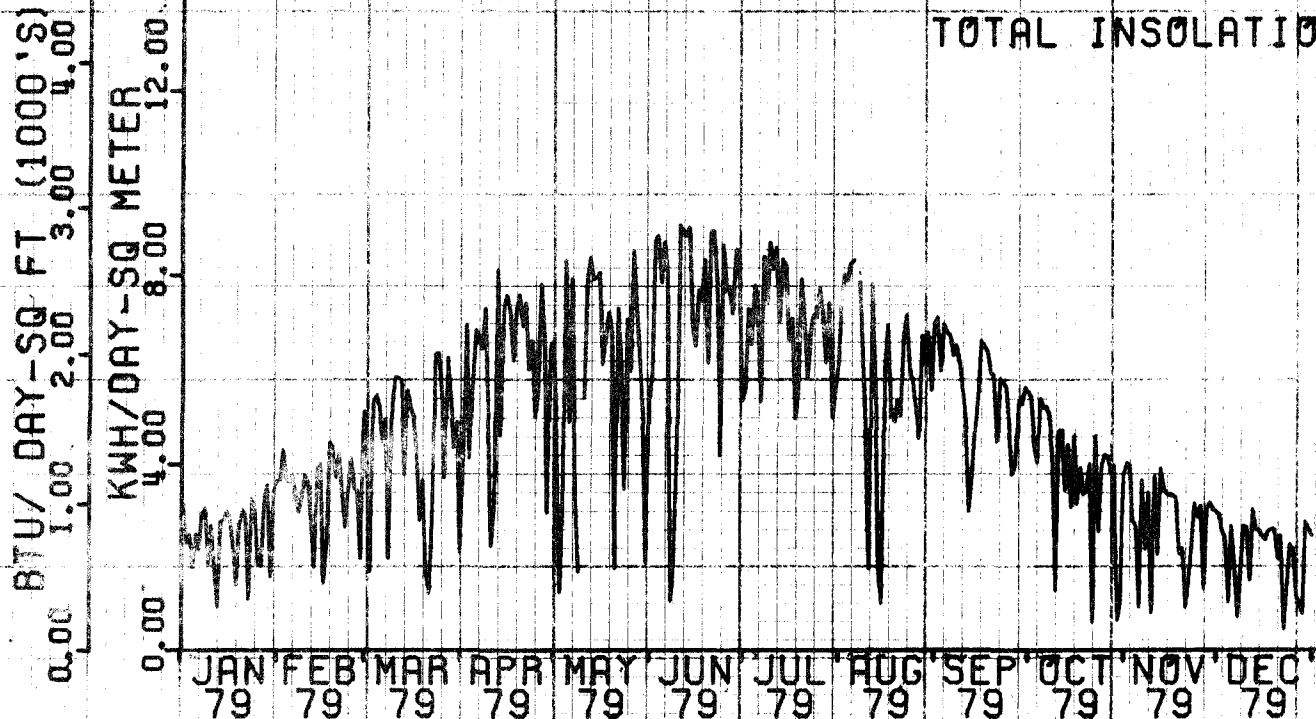
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	2.3 18.4	40.8 20.6	117.0 20.4	15.5	20.2	13.7	1485.7	0.0	30	0	729.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	1.0 46.0	41.5 37.6	104.3 35.9	155.5 35.8	30.0	35.9	27.3	979.1	0.0	28	0	1106.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 55.3	28.5 45.5	87.8 44.5	135.2 44.0	184.0 42.4	34.9	40.7	31.6	903.7	0.0	30	0	1330.
4/79	NUM OF HOURS AVG TEMP (F)	0.3 53.2	17.3 53.6	83.0 55.6	133.0 55.1	184.2 53.9	245.2 52.9	44.7	51.9	39.5	588.8	0.0	29	0	1851.
5/79	NUM OF HOURS AVG TEMP (F)	24.0 63.0	63.3 62.0	96.3 61.9	130.0 61.5	175.2 60.7	230.5 58.8	49.2	56.1	44.5	488.3	0.0	31	0	1885.
6/79	NUM OF HOURS AVG TEMP (F)	35.3 75.1	87.5 74.2	136.7 73.4	182.7 72.8	225.2 72.4	276.0 71.7	62.4	70.2	55.3	137.3	0.0	14	0	2407.
7/79	NUM OF HOURS AVG TEMP (F)	0.3 85.2	44.3 82.1	99.8 81.7	151.2 81.3	201.2 80.7	263.0 79.9	70.5	78.6	63.9	0.6	5.4	1	5	1998.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	14.8 86.5	82.0 81.8	127.5 80.4	174.0 79.0	227.2 77.2	65.5	75.0	59.5	84.6	13.7	16	5	1696.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	46.0 77.3	114.5 76.0	170.2 75.4	227.7 74.4	62.1	72.3	55.6	125.8	0.0	16	0	1636.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	49.3 64.6	112.5 63.3	169.5 62.2	49.0	59.7	44.0	496.1	0.0	31	0	1092.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 49.2	1.0 51.3	50.8 39.1	115.5 37.6	27.7	35.4	25.0	1117.7	0.0	30	0	737.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	4.5 37.5	90.8 40.9	32.5	39.9	30.2	1009.0	0.0	31	0	561.

NOTE

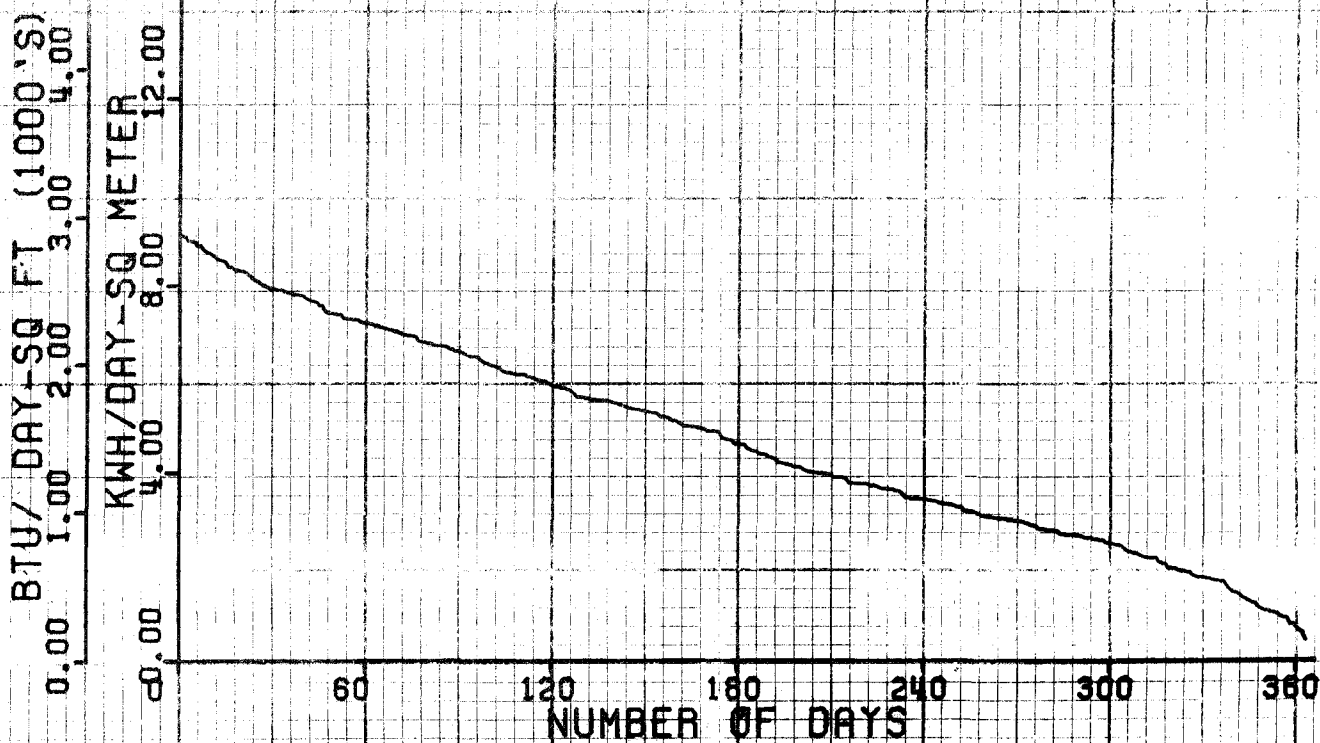
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

DENVER 1, COLO.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR DENVER 1, COLO.

ACCOUNT/ 82850251
CHANNELS 82850253

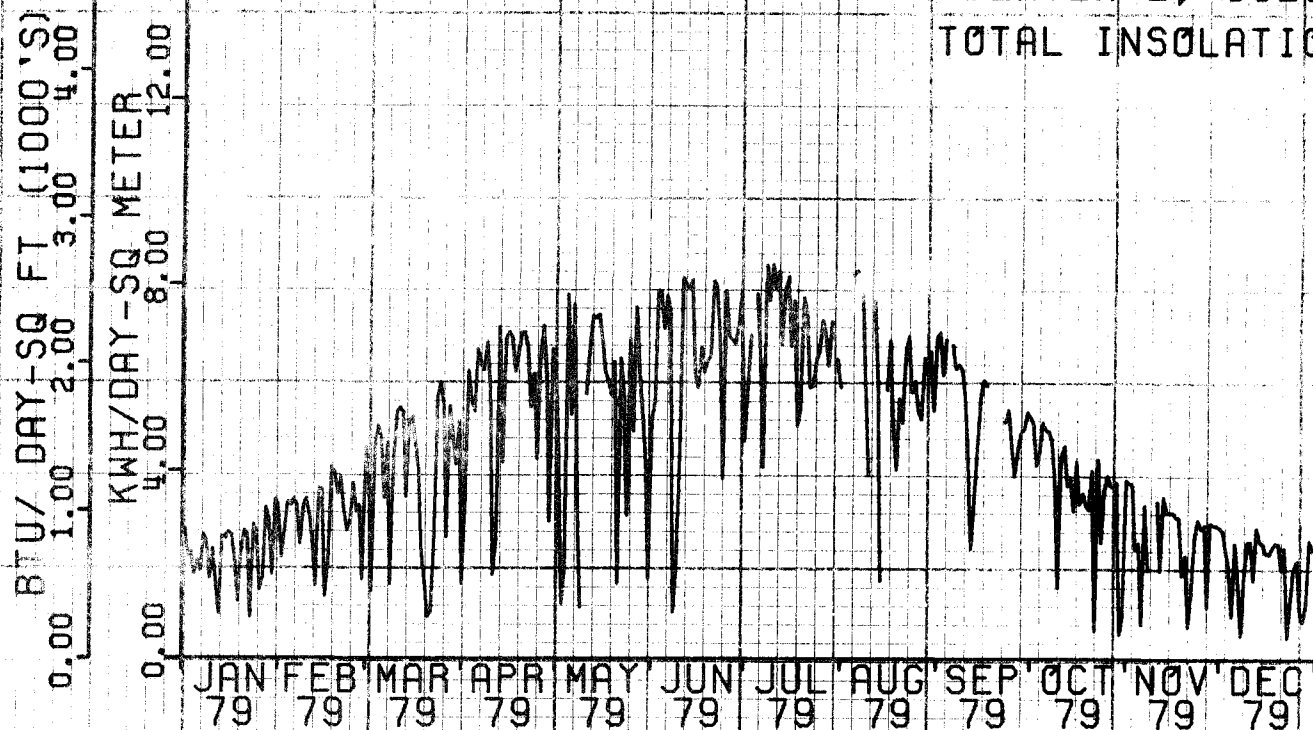
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.3 25.3	48.0 30.3	113.7 29.9	19.7	28.1	16.7	1403.9	0.0	31	0	728.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	24.8 46.9	94.8 47.3	148.2 45.7	34.5	43.8	30.4	853.2	0.0	28	0	1034.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 58.2	36.5 52.7	90.5 53.2	136.5 52.2	183.2 50.9	41.7	49.1	37.9	722.2	0.0	31	0	1326.
4/79	NUM OF HOURS AVG TEMP (F)	0.3 56.5	27.0 66.5	90.3 64.3	135.5 62.9	186.2 61.4	236.0 60.0	50.9	58.9	45.3	425.7	0.0	27	0	1861.
5/79	NUM OF HOURS AVG TEMP (F)	1.3 79.5	46.3 73.0	86.5 71.4	121.0 70.2	161.7 69.5	216.2 67.9	57.1	65.1	51.4	257.5	0.0	22	0	1752.
6/79	NUM OF HOURS AVG TEMP (F)	0.5 84.6	71.3 85.0	126.0 84.3	171.2 83.1	215.2 81.9	265.5 80.5	70.0	78.8	62.1	52.3	22.5	6	8	2229.
7/79	NUM OF HOURS AVG TEMP (F)	1.8 92.2	56.5 91.5	115.7 90.4	170.5 89.3	222.7 88.2	269.2 87.1	77.0	86.0	69.8	0.0	67.5	0	16	2129.
8/79	NUM OF HOURS AVG TEMP (F)	0.3 0.0	26.3 96.0	97.5 90.0	147.0 88.8	187.7 87.8	229.0 86.4	71.9	83.7	63.6	0.0	8.3	0	1	1782.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.8 59.7	63.0 83.0	130.5 81.6	181.2 80.1	227.5 78.8	60.0	71.6	58.3	37.4	0.0	6	0	1712.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	1.5 888.8	61.3 888.8	115.7 888.8	169.0 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	1116.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.0 888.8	5.5 888.8	70.3 888.8	123.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	794.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.0 888.8	0.0 888.8	19.5 888.8	92.5 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	579.

NOTE

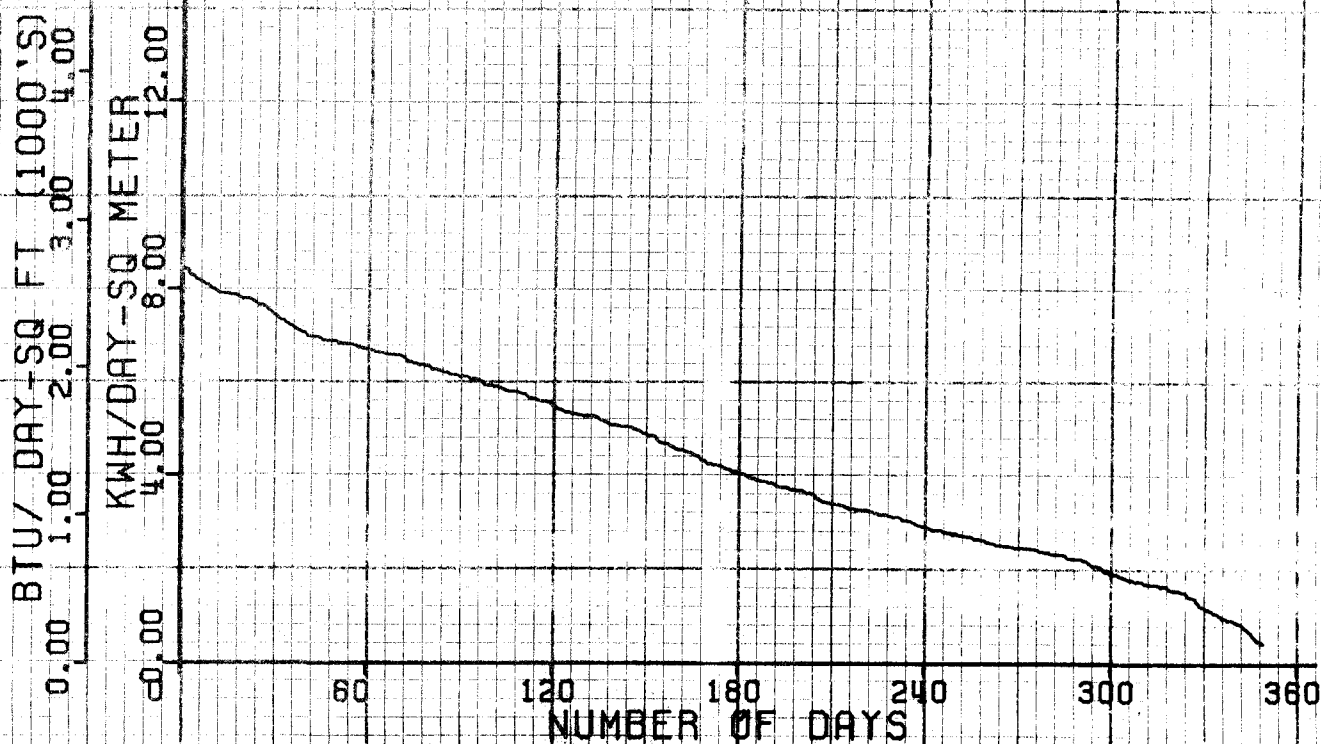
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

DENVER 2, COLO.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR DENVER 2, COLO.

ACCOUNT/ CHANNELS 82850331
82850333

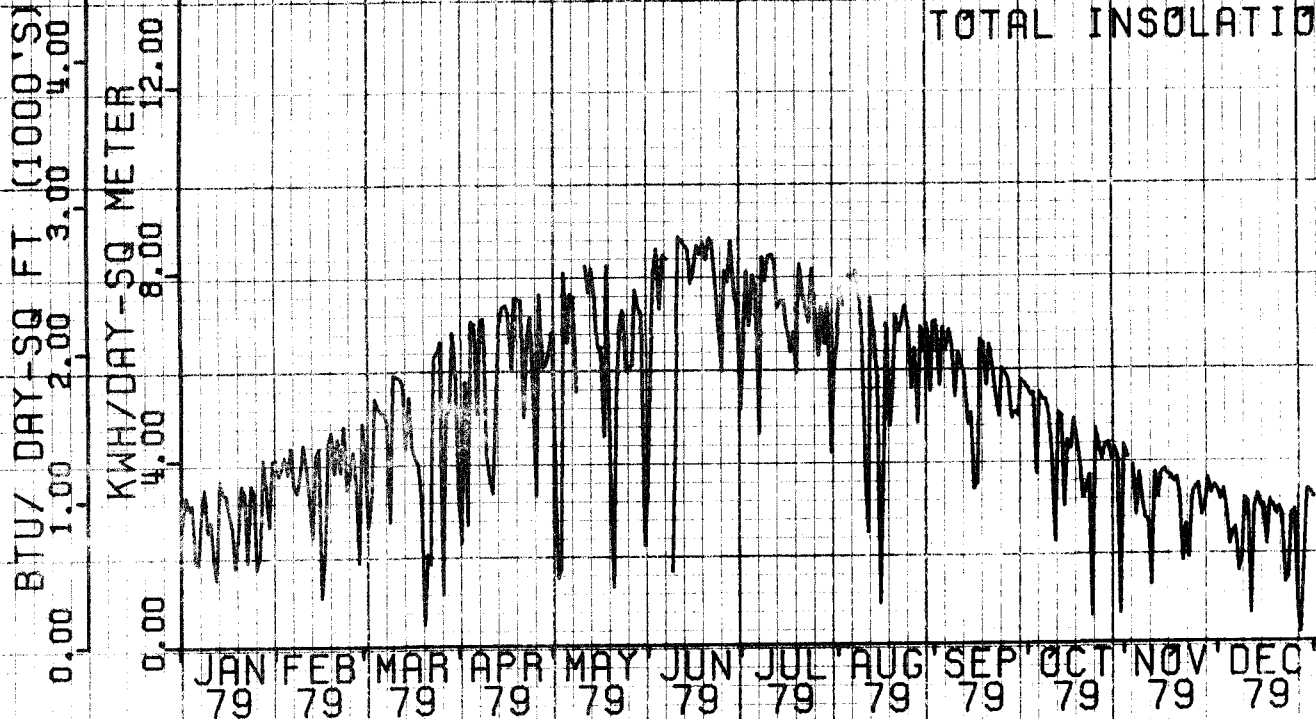
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 32.8	15.5 24.2	100.3 28.0	21.4	27.4	19.3	1352.3	0.0	31	0	639.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	6.0 50.0	70.3 48.7	132.0 46.5	36.8	44.5	33.5	790.1	0.0	28	0	895.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	8.5 54.2	72.0 53.8	116.2 53.2	165.7 51.7	43.3	49.8	40.3	672.7	0.0	31	0	1150.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.8 55.2	73.3 64.2	128.7 63.4	179.7 62.2	230.0 61.2	53.3	60.2	48.4	350.4	0.0	25	0	1752.
5/79	NUM OF HOURS AVG TEMP (F)	0.3 40.5	6.5 70.8	63.5 71.3	108.3 70.5	153.7 70.0	196.0 69.2	58.1	65.7	52.9	239.5	0.0	19	0	1554.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	5.5 83.2	95.5 84.2	147.2 82.9	198.2 81.8	253.0 80.5	71.0	78.8	64.6	62.2	46.7	7	13	1979.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	31.3 90.9	104.0 89.9	161.7 88.7	214.2 87.4	262.2 86.4	77.9	85.1	71.8	0.0	107.1	0	22	2095.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	11.5 93.4	89.3 88.0	141.5 86.0	183.2 84.6	227.5 83.1	72.4	80.9	66.7	6.7	40.8	3	8	1837.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.0 84.3	32.3 87.8	118.0 83.1	173.5 81.6	223.2 80.0	70.2	78.3	64.1	31.6	26.0	5	6	1610.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 76.5	40.8 72.6	107.3 69.3	170.5 68.6	56.0	67.3	50.9	298.0	0.0	25	0	1058.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	52.8 45.5	118.0 44.7	34.9	43.4	32.0	842.7	0.0	28	0	738.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	5.0 45.9	83.0 47.9	37.8	45.9	35.4	843.5	0.0	31	0	538.

NOTE

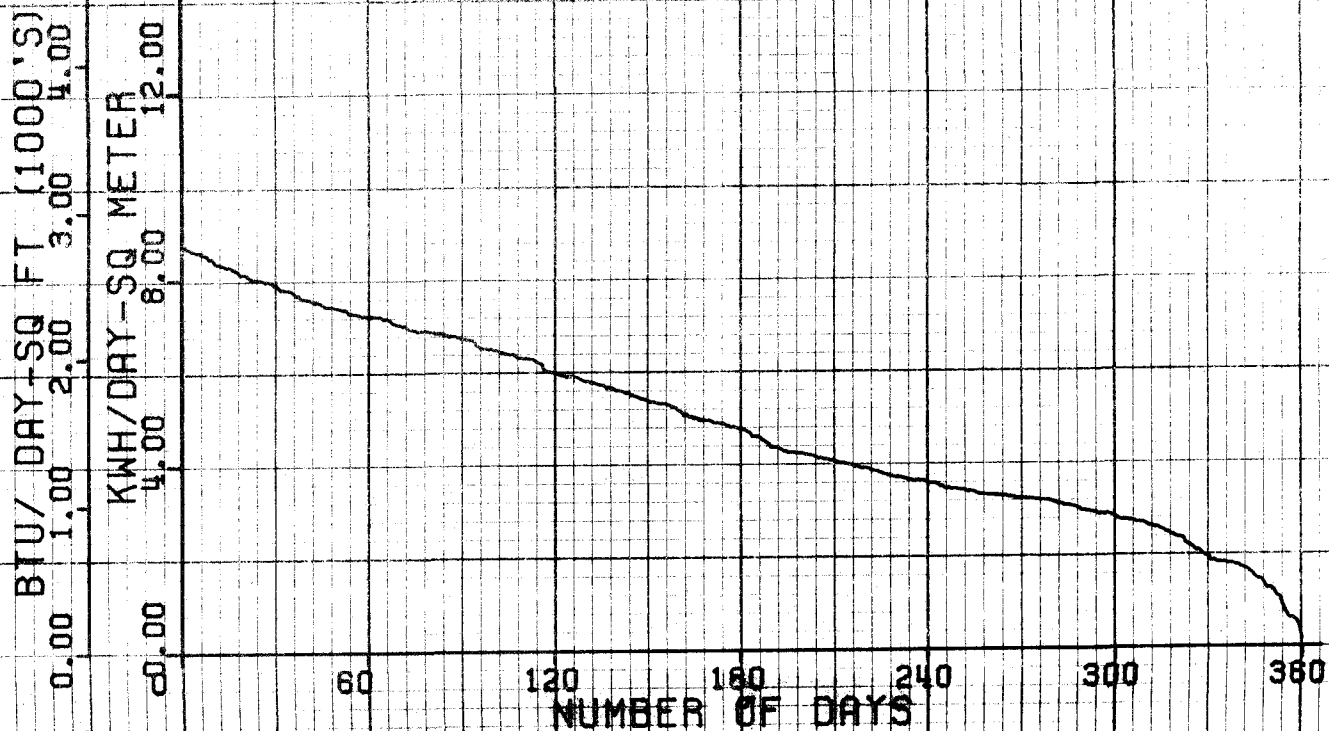
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

PUEBLO, COLO.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR PUEBLO, COLO.

ACCOUNT/
CHANNELS 82850661
82850663

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	6.8 21.3	66.5 29.4	130.5 29.5	24.1	29.2	20.8	1023.4	0.0	25	0	828.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	37.3 51.5	101.0 51.1	154.7 49.8	39.9	47.9	35.9	677.9	0.0	27	0	1095.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 67.4	28.5 60.1	88.8 59.3	138.5 58.1	186.5 57.1	48.2	55.4	44.6	520.8	0.0	31	0	1307.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	10.3 71.6	80.3 70.6	135.5 69.6	178.7 68.7	227.0 67.0	57.7	65.2	52.2	247.2	0.0	21	0	1784.
5/79	NUM OF HOURS AVG TEMP (F)	0.5 79.0	38.8 76.2	89.8 75.5	129.0 74.9	164.5 74.2	206.2 73.1	63.4	71.1	58.3	127.2	3.6	13	1	1752.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	62.5 88.6	134.0 88.0	185.7 87.1	229.7 85.9	272.2 84.9	75.9	83.3	69.1	22.4	105.8	3	19	2315.
7/79	NUM OF HOURS AVG TEMP (F)	0.3 103.0	52.0 93.4	131.7 92.8	180.7 91.7	224.0 90.8	270.2 89.7	82.3	88.7	76.3	0.0	194.5	0	23	2167.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	15.3 95.6	101.0 91.7	154.0 90.1	201.5 88.7	248.5 87.5	77.1	85.9	71.2	2.1	97.2	1	17	1879.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 101.7	58.3 90.2	131.5 88.2	183.2 87.2	237.0 85.4	75.9	83.8	67.7	7.6	64.7	1	13	1723.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 77.5	64.5 75.9	129.5 74.6	186.0 73.0	60.8	71.6	54.4	149.2	0.0	13	0	1207.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	6.0 48.8	87.0 50.4	150.5 48.5	38.7	46.4	35.6	735.3	0.0	28	0	925.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.8 27.9	42.8 51.1	118.5 49.6	37.8	48.4	34.2	844.6	0.0	31	0	695.

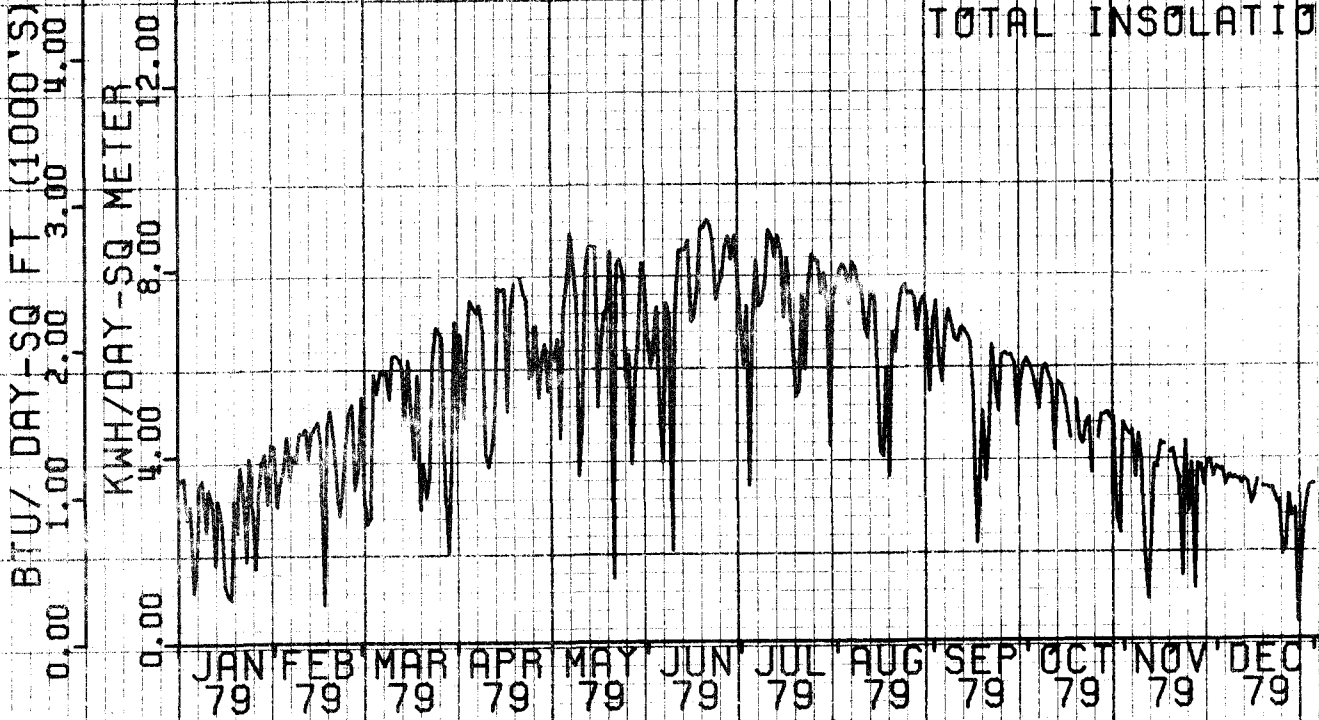
NOTE

AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

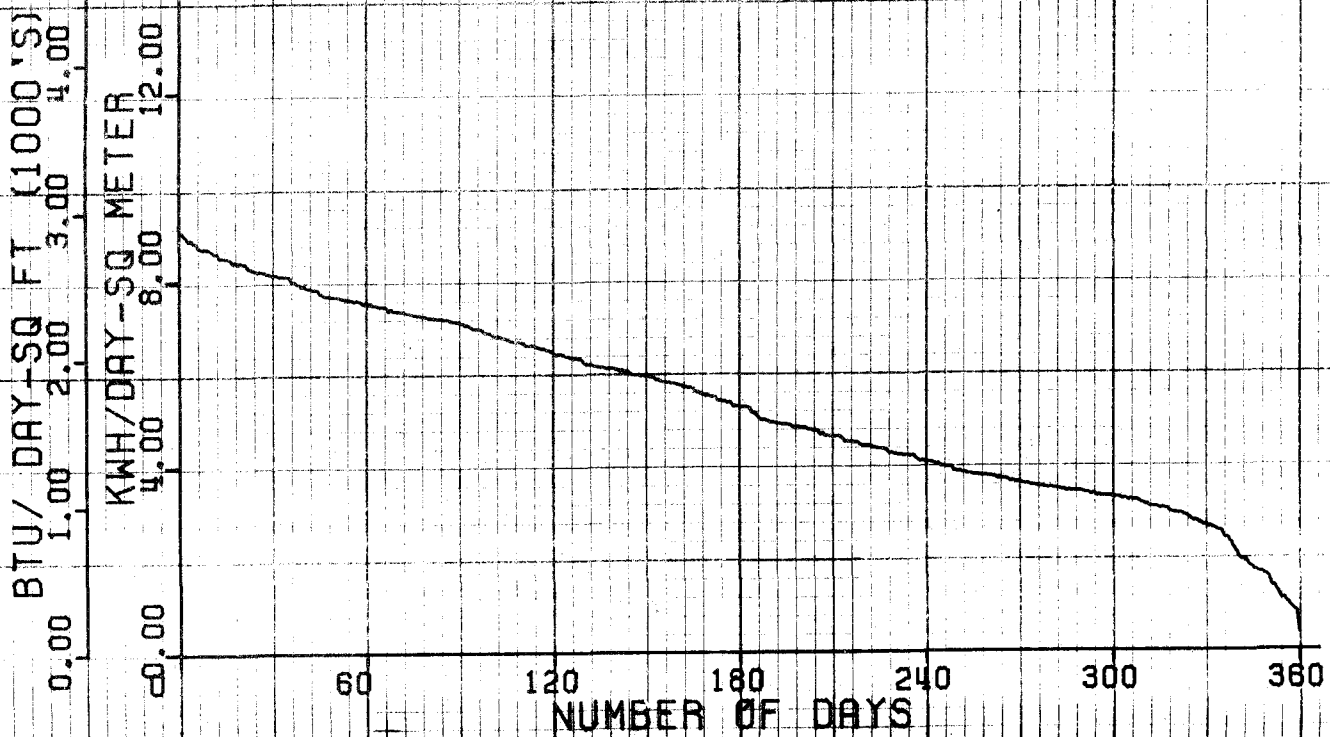
ANNUAL DISTRIBUTION

ALBUQUERQUE, N. M.

TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR ALBUQUERQUE, N.M.

ACCOUNT/
CHANNELS 82860151
82860153

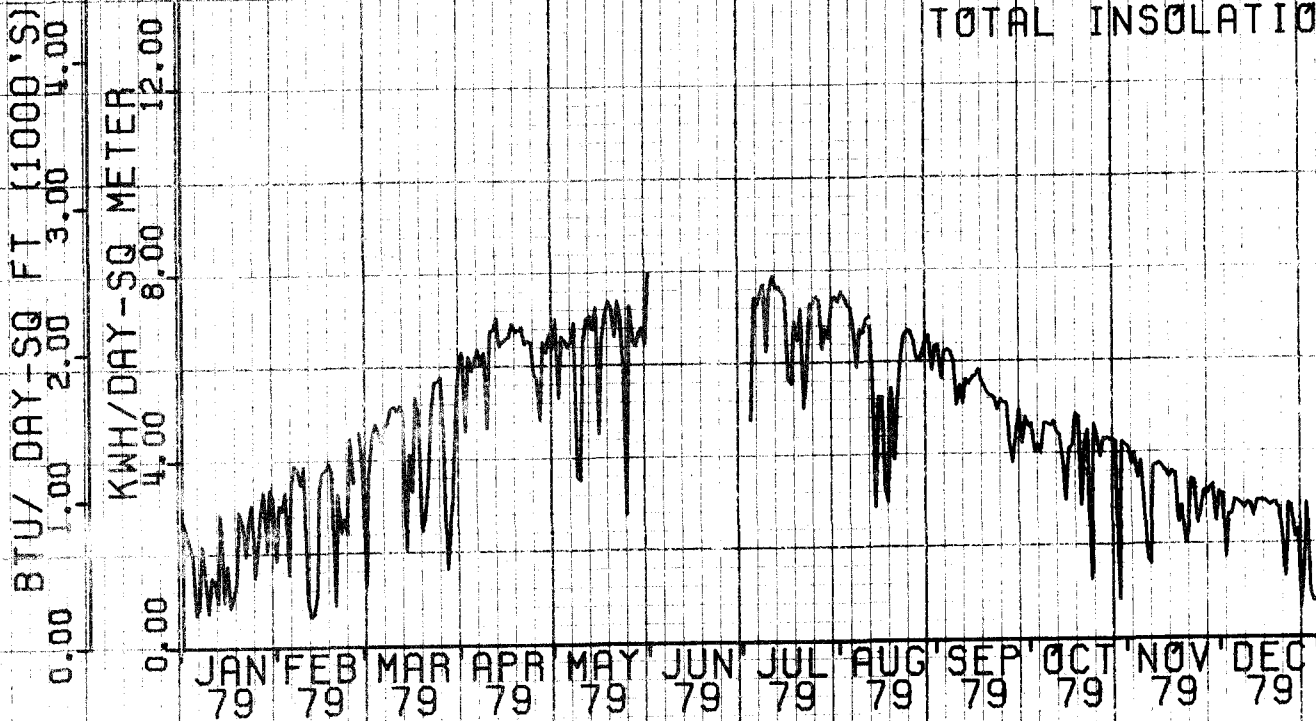
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 32.5	11.5 29.8	72.0 31.9	128.2 32.3	30.4	33.1	29.4	1073.0	0.0	31	0	812.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	4.5 42.4	61.8 47.3	117.5 46.0	172.7 44.8	37.7	44.0	34.6	765.5	0.0	28	0	1214.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.8 53.5	55.0 55.2	103.8 54.4	152.0 53.6	207.0 52.7	45.7	51.6	42.2	598.2	0.0	31	0	1491.
4/79	NUM OF HOURS AVG TEMP (F)	0.5 72.3	38.3 66.6	93.0 65.9	142.5 64.8	191.2 63.6	240.0 62.5	54.7	61.2	50.2	289.5	0.0	27	0	1940.
5/79	NUM OF HOURS AVG TEMP (F)	1.5 70.9	54.8 72.2	116.5 71.2	160.2 70.6	208.7 69.6	260.0 68.6	61.0	67.4	56.3	151.3	0.0	20	0	2052.
6/79	NUM OF HOURS AVG TEMP (F)	0.3 67.7	56.3 85.0	129.2 82.6	182.7 81.2	233.2 79.9	279.2 79.0	71.4	77.9	65.8	32.6	37.8	7	14	2295.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	62.5 90.0	133.5 88.4	179.2 87.3	227.0 86.2	277.0 85.2	77.7	83.8	71.8	0.0	105.7	0	19	2222.
8/79	NUM OF HOURS AVG TEMP (F)	0.5 79.7	42.3 84.6	124.2 83.8	177.0 83.3	222.2 82.5	269.7 81.5	74.0	80.2	68.9	2.2	40.0	1	14	2112.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.5 80.2	79.0 81.9	136.7 80.7	181.7 79.5	231.5 77.9	69.1	76.3	64.4	43.4	18.4	8	10	1754.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	18.0 77.6	105.5 71.2	165.0 69.5	221.0 68.3	59.5	67.3	54.7	183.4	0.0	21	0	1470.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	32.0 48.7	108.8 45.6	159.5 45.1	38.4	44.0	36.0	771.0	0.0	29	0	1027.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.3 48.4	83.0 44.7	152.0 43.8	36.2	42.7	33.5	863.6	0.0	30	0	883.

NOTE

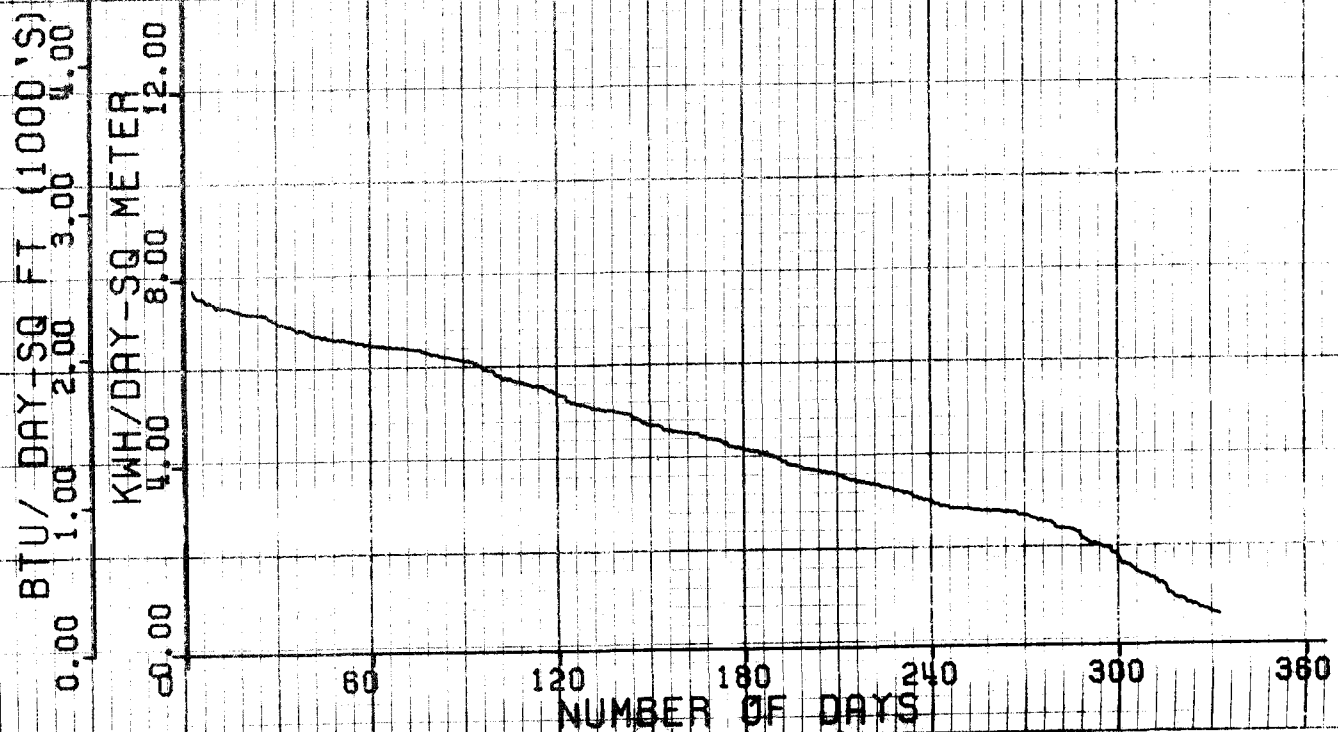
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

PAGE, ARIZONA
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR PAGE, ARIZONA

ACCOUNT/ CHANNELS 82834181 82834183

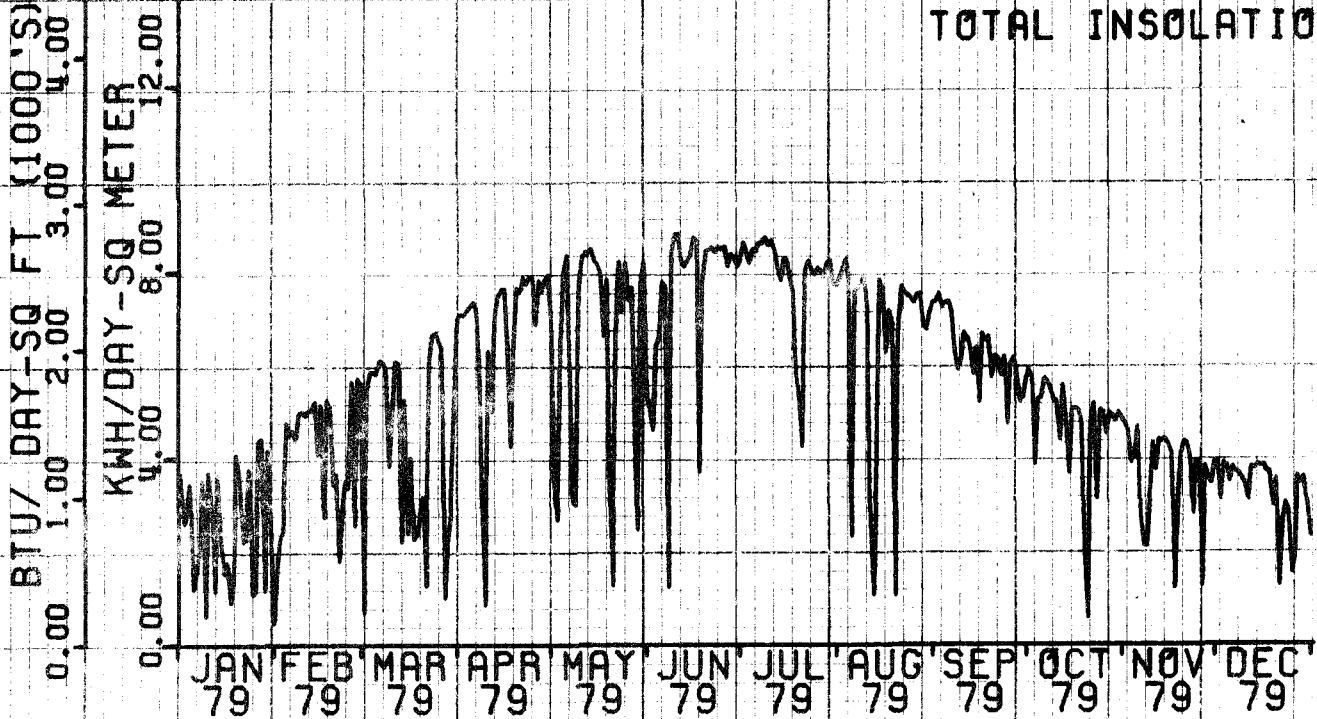
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT	
		350	300	250	200	150	100									
1/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	29.3	30.3	29.2	1106.1	0.0	31	0	91.	
2/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	35.0	39.9	34.1	810.8	0.0	27	0	254.	
3/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.0 888.8	0.0 888.8	0.0 888.8	0.3 888.8	43.4	8888.0	42.6	21.6	0.0	1	0	327.	
4/79	NUM OF HOURS AVG TEMP (F)	----- I N S U F F I C I E N T D A T A -----														
5/79	NUM OF HOURS AVG TEMP (F)	0.0 888.8	0.0 888.8	0.0 888.8	0.0 888.8	0.0 888.8	3.3 888.8	8888.0	8888.0	8888.0	8888.0	8888.0	888	888	532.	
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	4.8 86.7	81.5	86.3	79.5	0.0	113.5	0	13	565.	
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	1.0 90.0	87.4	92.6	84.6	0.0	385.3	0	31	559.	
8/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	81.6	8888.0	8888.0	0.0	199.8	0	19	8888.	
9/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	80.0	8888.0	8888.0	0.0	138.1	0	22	8888.	
10/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	61.7	8888.0	8888.0	124.3	0.0	12	0	8888.	
11/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	46.0	8888.0	8888.0	341.2	0.0	18	0	8888.	
12/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	36.5	8888.0	8888.0	713.5	0.0	25	0	8888.	

NOTE

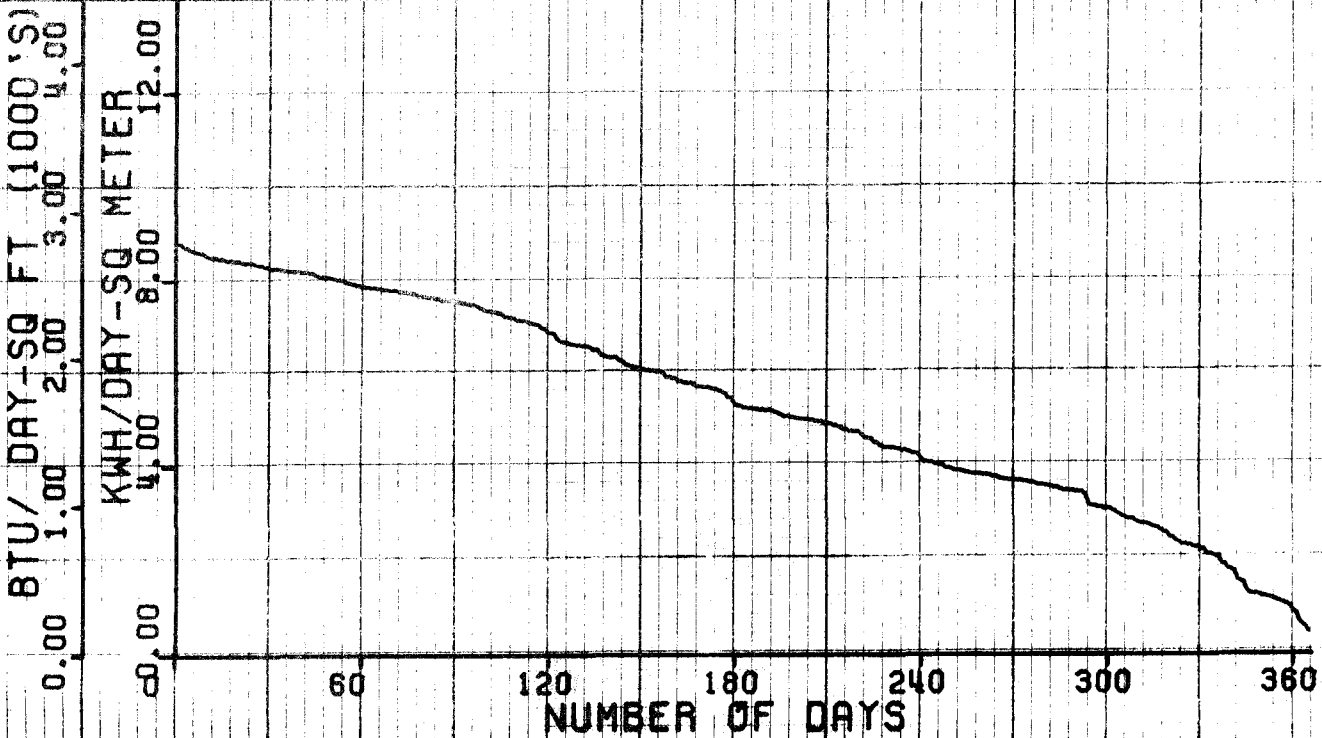
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

ALPINE, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR ALPINE, CALIF.

ACCOUNT/ 82824101
CHANNELS 82824103

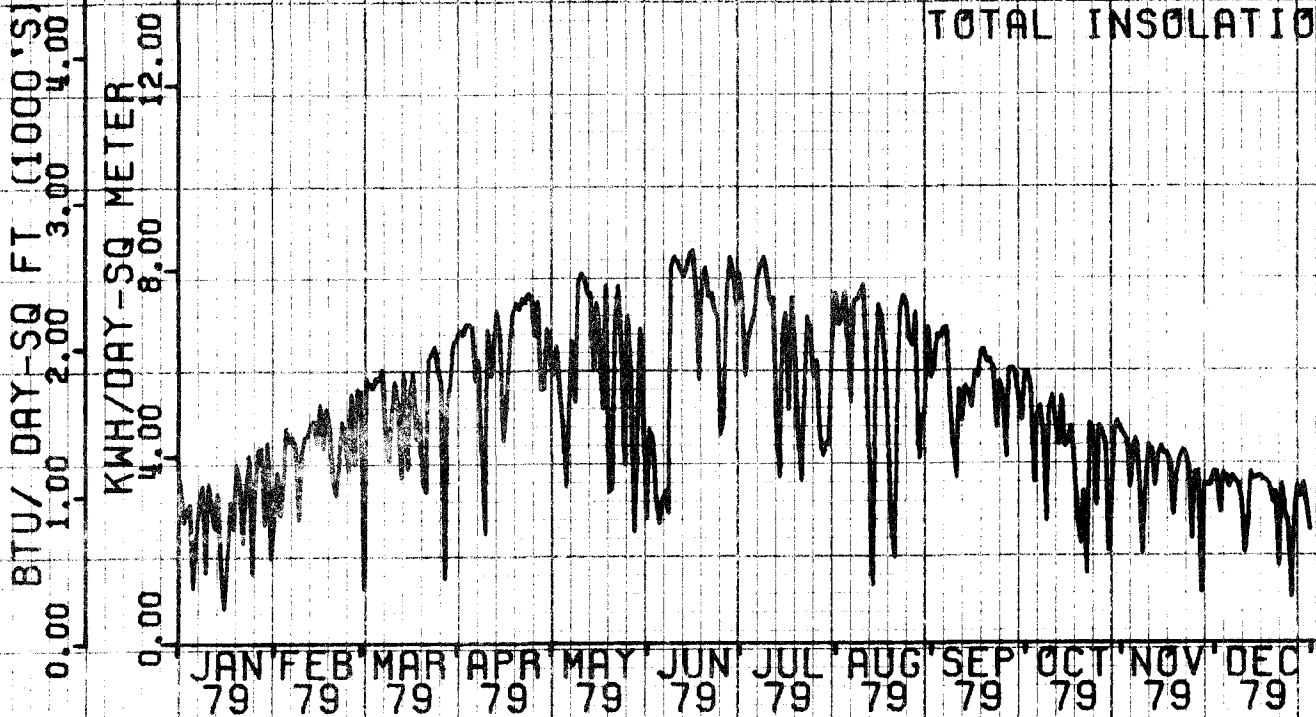
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	9.5 56.4	58.8 61.4	104.5 60.5	50.1	58.5	47.6	462.9	0.0	31	0	681.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	8.0 63.7	73.8 68.4	118.5 67.3	161.0 65.7	53.6	63.4	48.8	318.9	0.0	27	0	1236.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.8 65.7	49.8 69.5	94.0 68.9	138.2 67.5	183.2 65.7	54.1	62.6	50.2	335.0	0.0	26	0	1331.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	36.3 72.9	119.5 71.8	174.0 70.7	215.7 69.9	257.2 69.0	59.7	67.8	53.8	170.1	0.0	24	0	2085.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	58.0 76.1	115.2 75.0	158.2 74.1	197.5 73.0	242.5 71.4	62.0	69.4	56.9	148.3	7.9	24	3	1959.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	78.0 86.3	146.0 85.0	193.7 84.0	238.0 83.0	276.2 82.0	72.1	80.3	65.5	34.0	98.0	10	12	2348.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	71.0 86.5	153.7 86.5	211.0 85.6	261.7 84.8	309.2 84.0	76.0	83.1	69.6	6.1	102.7	3	19	2461.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	33.3 87.0	122.7 85.3	170.7 84.4	211.2 83.5	252.2 82.6	72.9	81.0	67.3	5.4	43.7	2	13	2013.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	5.5 92.1	90.0 94.2	159.5 92.8	210.0 91.8	256.7 91.1	80.3	89.9	73.6	0.0	172.0	0	23	1945.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	13.3 83.8	104.3 78.5	159.7 77.8	215.0 77.1	66.4	76.0	61.1	42.0	10.1	14	4	1442.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	41.3 74.5	112.0 74.5	166.2 73.4	60.2	71.6	55.0	158.2	0.0	22	0	1088.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	3.3 80.4	100.8 75.6	164.2 74.2	60.4	72.5	55.2	185.2	0.8	22	1	982.

NOTE

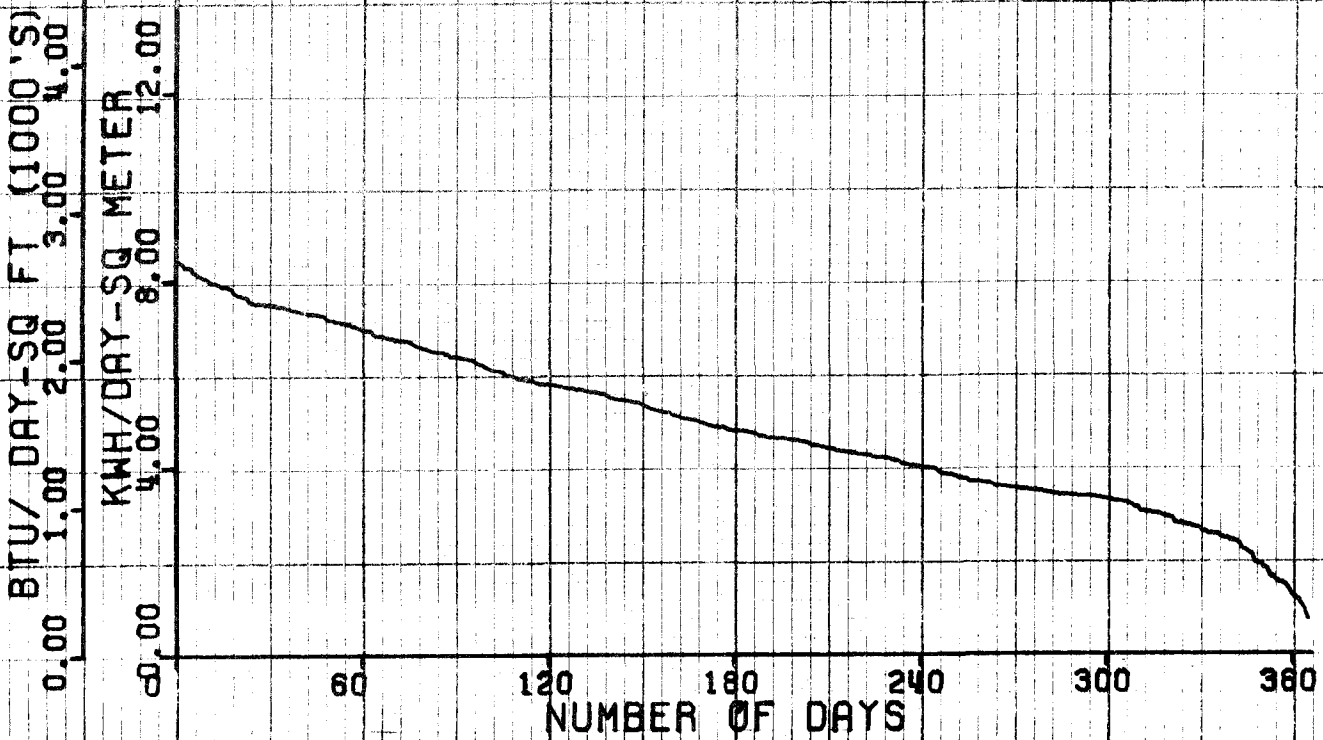
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

CARLSBAD, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR CARLSBAD, CALIF.

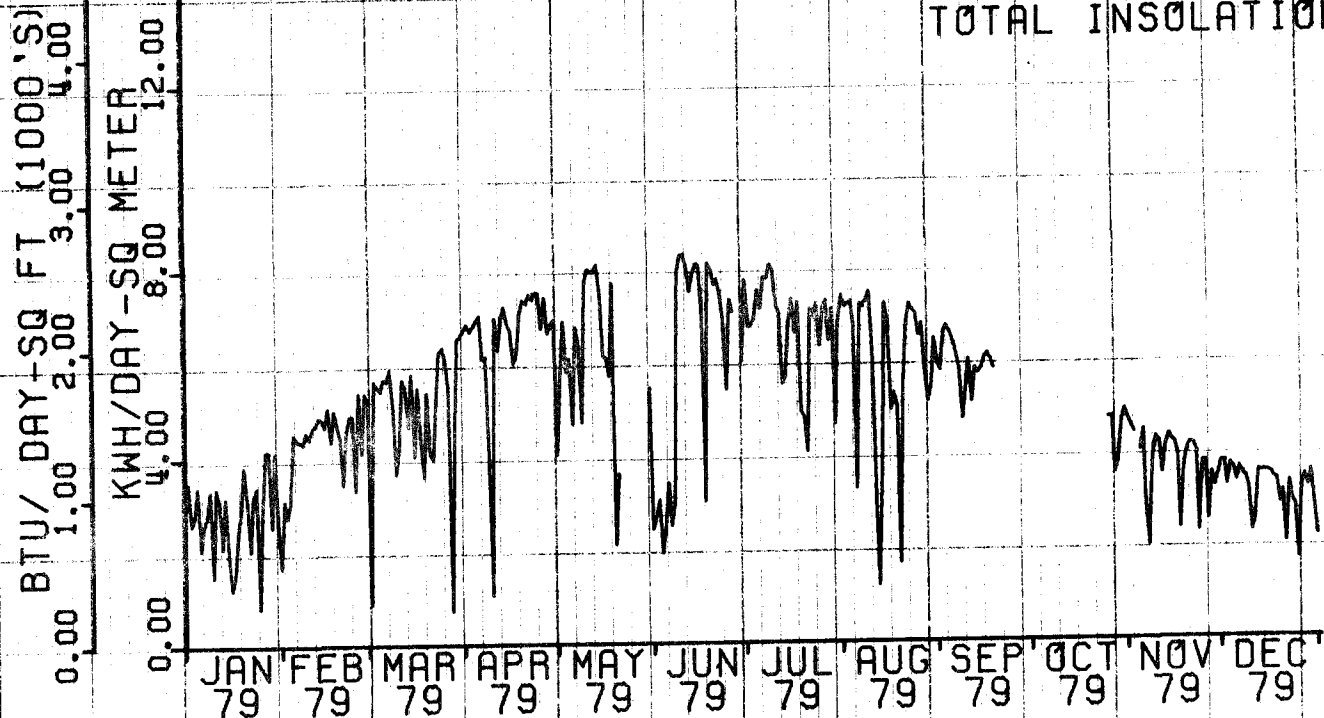
ACCOUNT/ 82824511
CHANNELS 82824513

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	11.5 60.8	70.3 62.4	125.7 61.6	55.3	60.6	53.4	290.6	0.0	30	0	805.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	4.5 63.5	70.3 62.9	127.2 62.4	176.2 61.7	55.1	60.8	52.1	278.1	0.0	28	0	1287.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.0 62.3	49.3 65.4	113.5 65.3	162.7 64.9	214.5 64.2	58.0	63.2	55.2	209.5	0.0	30	0	1510.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.5 66.5	98.3 67.7	153.2 67.5	202.0 67.2	249.0 66.7	61.1	65.9	57.7	115.7	0.0	30	0	1934.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	14.0 68.3	82.8 69.6	132.0 69.7	176.5 69.3	229.2 68.8	64.0	68.0	61.4	45.4	0.0	23	0	1729.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	26.5 74.3	107.8 74.8	156.2 74.5	198.0 74.1	249.0 73.4	67.9	72.5	64.9	0.2	2.2	1	1	1988.
7/79	NUM OF HOURS AVG TEMP (F)	0.3 70.0	22.0 73.2	89.0 74.3	134.2 74.3	195.2 73.8	252.0 73.4	69.5	72.9	67.1	0.0	0.0	0	0	1867.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	6.8 76.9	91.5 77.5	142.7 77.2	185.7 77.0	230.5 76.6	71.9	75.8	69.4	0.0	1.3	0	1	1763.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	56.0 79.5	126.5 79.2	184.5 78.9	232.7 78.5	72.9	77.6	70.0	0.0	11.4	0	6	1698.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	4.8 75.7	75.3 74.2	126.5 73.5	180.7 72.9	66.8	71.8	64.2	23.7	0.0	10	0	1234.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	25.5 69.1	109.3 68.8	174.2 68.2	60.3	67.0	56.5	94.5	0.0	20	0	1082.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	86.8 70.4	156.7 69.5	59.5	68.2	55.4	90.3	0.0	15	0	911.

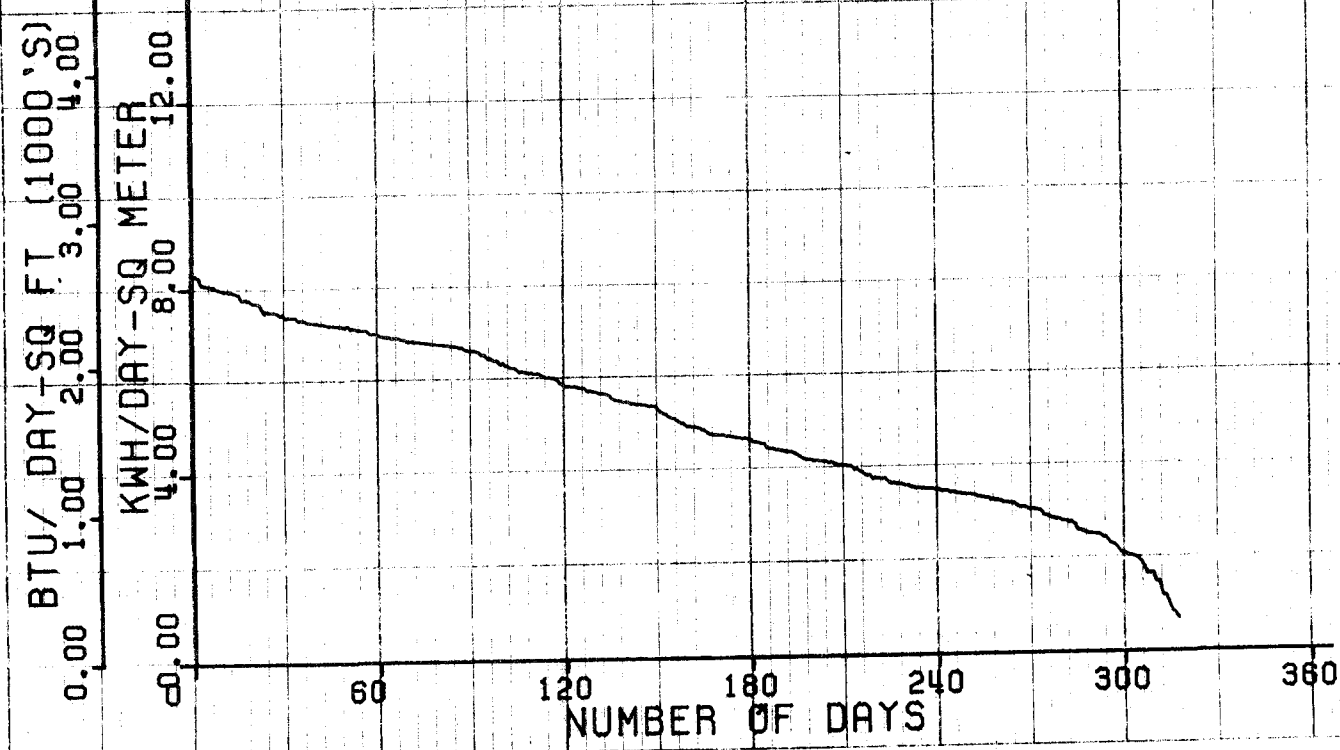
NOTE
 AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

CHULA VISTA, CA.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR CHULA VISTA, CA.

ACCOUNT/ CHANNELS 82824281
82824283

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	10.3 59.9	65.3 62.3	125.7 61.5	54.2	60.4	51.9	324.7	0.0	30	0	785.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	4.0 63.3	81.3 64.2	136.0 63.9	186.5 62.9	54.2	61.7	50.1	302.5	0.0	28	0	1359.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.8 65.2	51.3 67.2	115.2 67.0	166.5 66.1	214.0 65.2	57.1	63.6	53.6	236.1	0.0	30	0	1518.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	6.0 68.0	107.8 68.9	165.2 68.6	208.0 68.2	251.7 67.6	60.5	66.6	56.1	134.4	0.0	29	0	2001.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	23.5 72.5	79.3 71.5	113.7 71.0	145.7 70.4	184.7 69.5	63.5	68.6	60.1	59.2	3.0	17	1	1843.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	19.5 79.2	103.5 77.5	146.2 77.2	182.5 76.7	229.5 75.6	68.1	73.8	63.9	16.0	24.1	11	5	1879.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	12.5 75.9	114.2 76.5	168.2 76.3	220.5 75.9	273.5 75.4	70.3	74.8	66.7	0.0	0.0	0	0	2064.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.0 76.4	91.3 79.1	147.2 78.9	190.2 78.6	235.0 78.1	72.4	77.3	69.3	0.0	4.8	0	4	1779.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	39.3 83.6	87.3 83.6	122.0 83.4	149.5 83.0	75.0	82.3	70.8	0.0	35.5	0	8	1825.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 73.8	24.0 73.9	40.3 73.5	53.3 72.6	67.6	71.2	59.1	16.9	0.0	10	0	1360.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 72.3	35.5 73.8	110.3 73.3	173.2 72.1	60.5	70.3	55.7	129.8	0.0	29	0	1125.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.0 77.0	88.5 74.1	163.7 72.0	59.0	70.2	54.0	191.6	0.0	28	0	950.

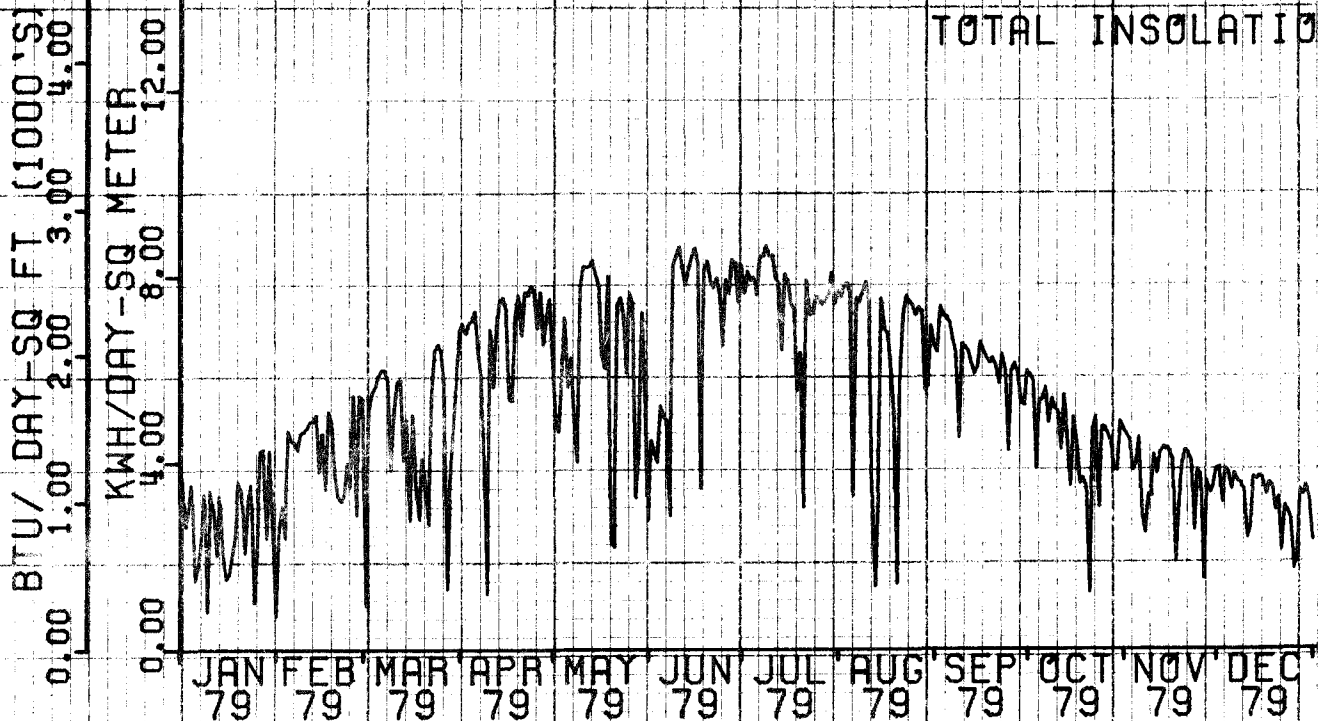
NOTE

AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

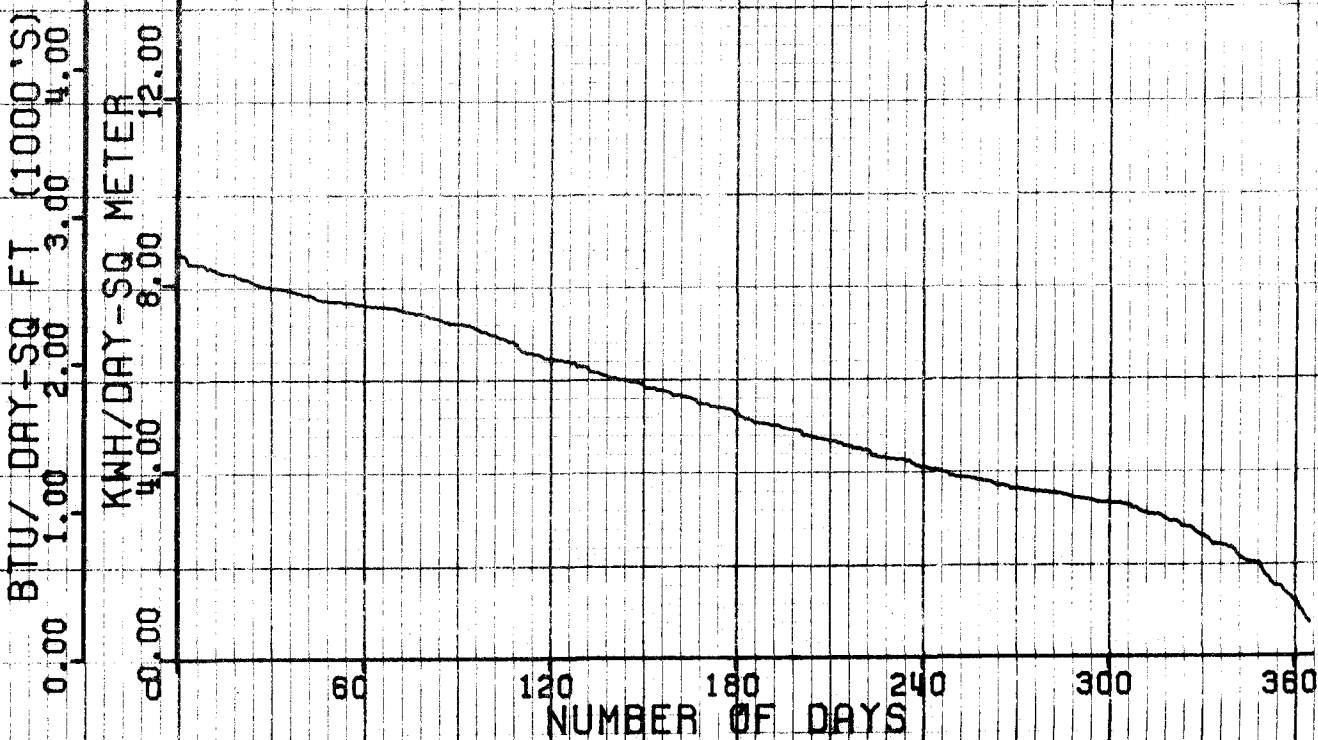
ANNUAL DISTRIBUTION

EL CAJON, CALIF.

TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR EL CAJON, CALIF.

ACCOUNT 82824441
CHANNELS 82824443

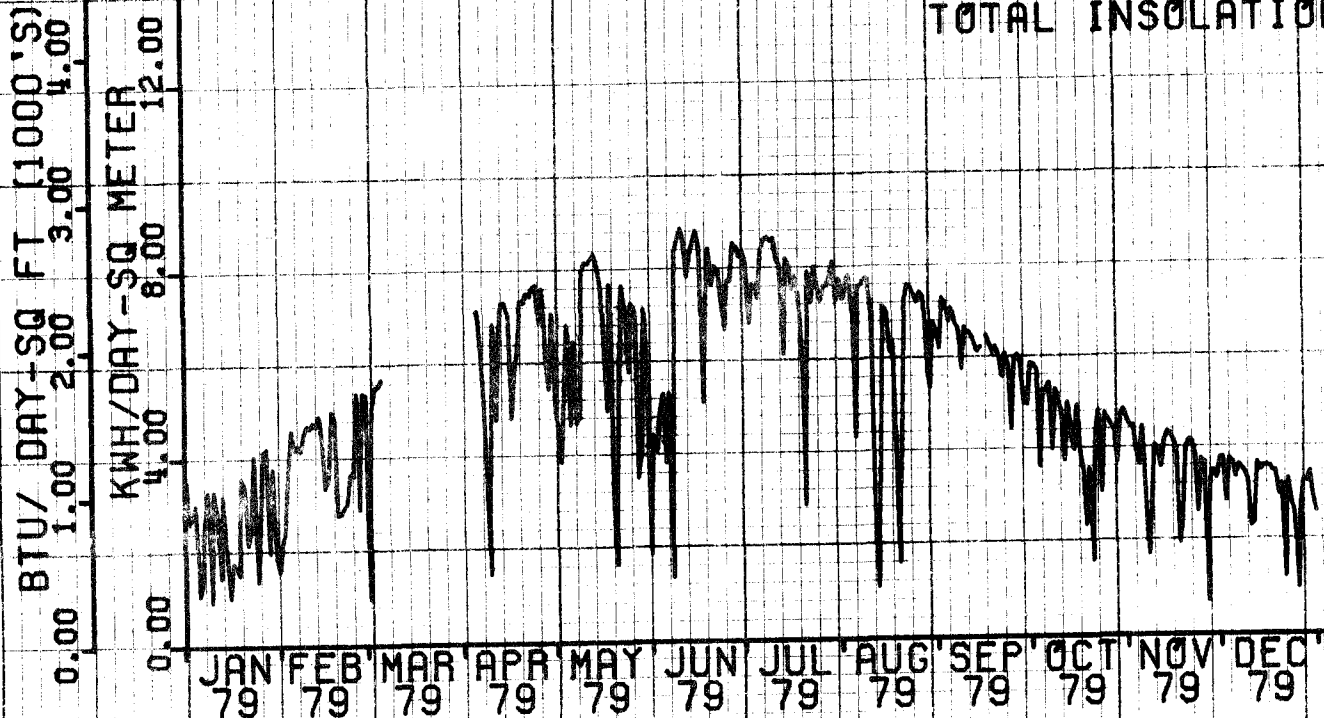
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 53.8	8.0 60.9	60.3 63.4	114.5 61.4	51.7	59.5	49.1	410.8	0.0	31	0	740.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	5.0 65.4	66.3 68.7	119.0 66.9	172.5 64.6	53.1	62.4	48.1	334.3	0.0	28	0	1265.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.8 68.9	46.3 72.2	99.5 70.3	146.2 68.4	200.7 66.4	55.8	63.6	51.5	258.6	0.0	28	0	1427.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	24.0 73.1	115.0 73.2	169.2 72.5	212.5 71.5	255.0 70.4	60.5	68.7	54.8	126.2	0.0	27	0	2046.
5/79	NUM OF HOURS AVG TEMP (F)	0.3 67.8	38.8 78.8	99.8 76.8	142.0 75.5	188.2 74.0	239.7 72.4	64.0	70.5	59.2	71.1	5.0	23	2	1869.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	53.3 86.1	124.2 85.6	175.7 84.5	216.7 83.2	260.2 81.8	71.3	79.7	64.7	11.7	55.6	9	11	2161.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	53.8 85.3	146.0 85.0	202.5 84.3	245.7 83.8	288.5 83.0	74.3	81.8	68.0	0.0	32.9	0	13	2319.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	17.8 87.7	113.0 86.3	161.5 85.7	199.7 85.0	246.0 84.1	75.2	82.5	70.1	0.0	43.1	0	13	1923.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 91.4	83.0 92.9	157.2 92.0	208.0 91.1	253.0 90.0	79.1	88.7	72.3	0.0	131.7	0	24	1895.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	10.0 85.3	96.8 81.0	151.5 80.1	202.5 79.0	68.9	77.4	64.0	15.1	4.0	5	3	1363.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	34.5 79.5	106.8 77.2	172.7 74.8	60.4	72.3	54.6	138.3	0.0	30	0	1100.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.5 78.3	92.3 78.7	159.7 75.3	58.4	72.6	52.2	209.2	0.0	27	0	953.

NOTE

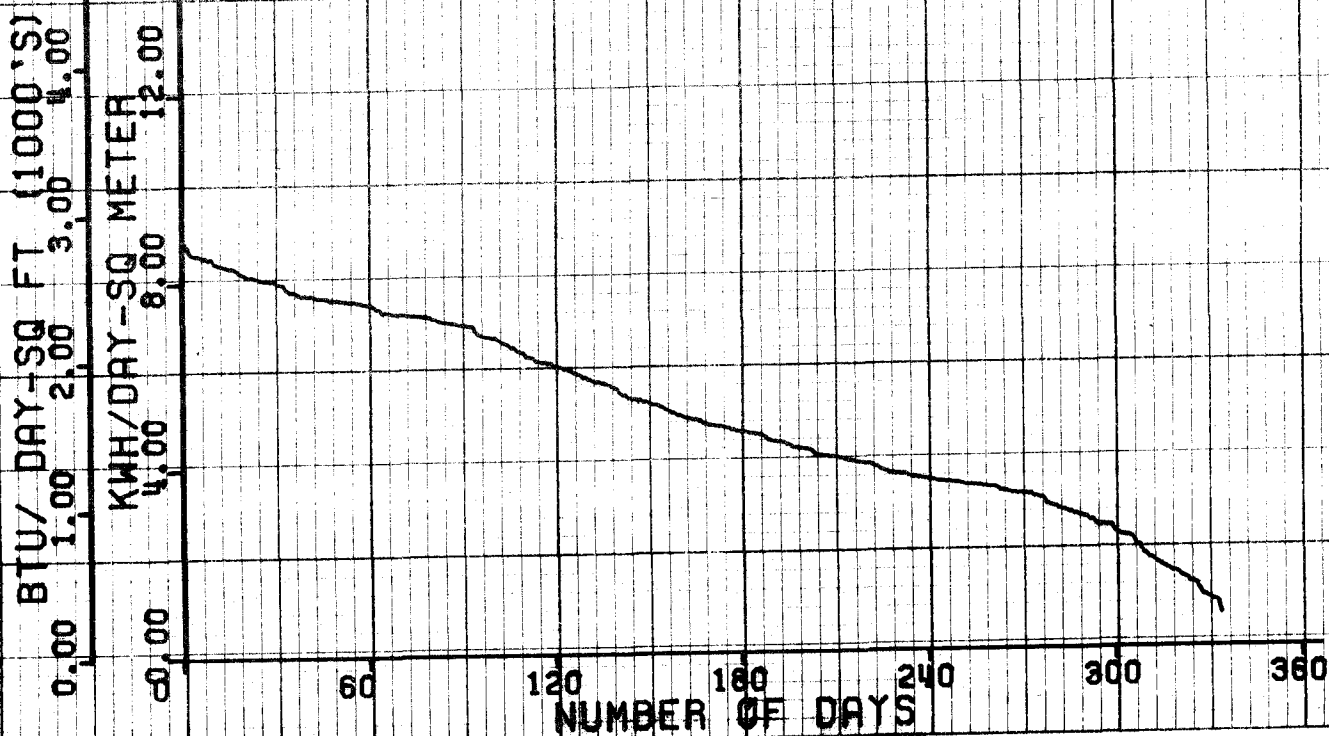
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

ESCONDIDO, CA.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR ESCONDIDO, CA.

ACCOUNT/ 82824691
CHANNELS 82824693

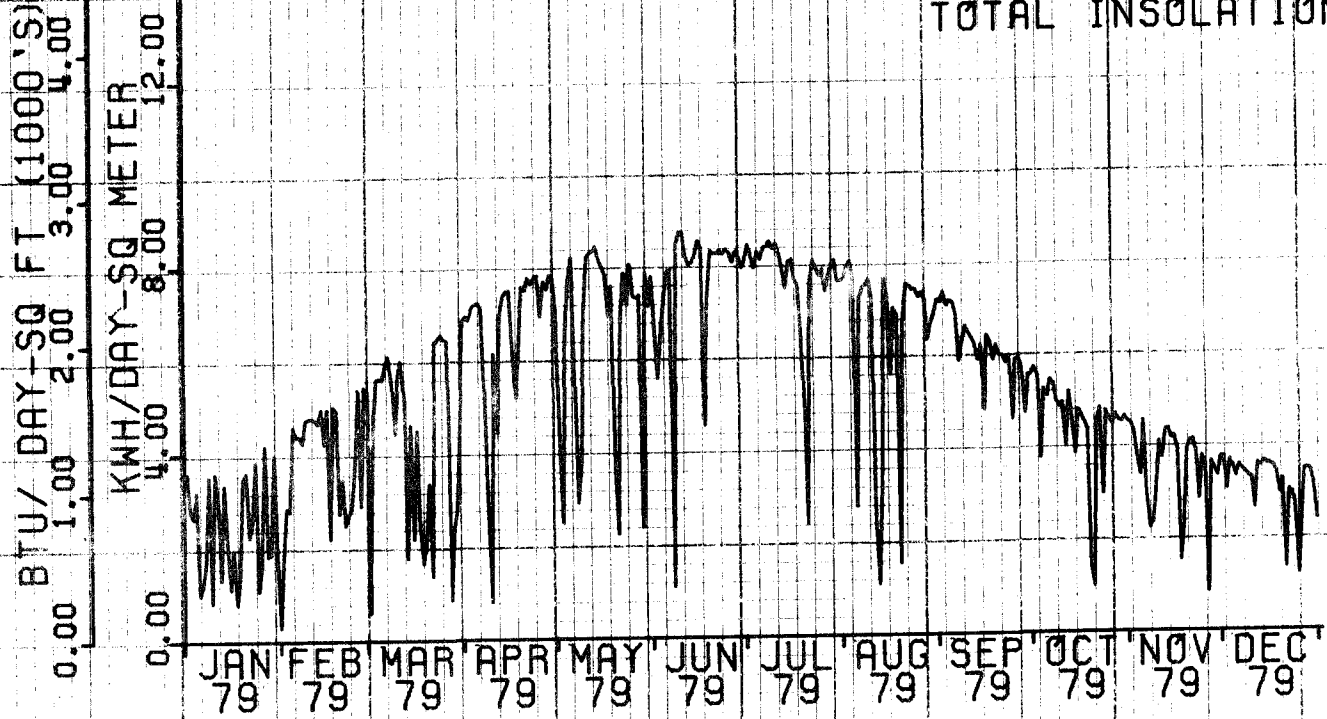
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	7.5 58.3	52.3 60.4	105.0 59.2	50.2	57.5	47.6	429.3	0.0	29	0	701.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.3 66.3	62.8 65.8	112.2 64.2	164.7 62.1	50.9	60.2	46.2	393.7	0.0	28	0	1214.
3/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	51.7	8888.0	8888.0	66.4	0.0	5	0	8888.
4/79	NUM OF HOURS AVG TEMP (F)	0.3 63.3	12.0 69.8	87.5 70.9	135.7 70.1	174.7 69.1	216.0 68.0	58.5	66.6	53.0	168.0	0.0	26	0	1927.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	27.0 78.3	96.5 75.3	140.5 74.0	179.5 73.1	232.2 71.4	62.0	69.5	57.0	118.7	1.3	25	1	1796.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	61.5 84.1	129.2 83.4	180.2 82.2	218.7 81.2	258.0 80.0	68.0	77.9	61.1	26.5	20.1	13	5	2171.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	64.5 82.4	151.2 82.0	205.5 81.3	246.2 80.6	286.2 79.7	69.9	78.2	62.9	3.4	3.6	3	2	2336.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	21.5 85.0	110.0 83.1	154.7 82.3	196.7 81.4	244.2 80.3	70.5	78.7	65.1	0.0	3.8	0	4	1887.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.0 86.0	82.3 88.8	153.7 87.7	205.0 86.6	247.5 85.4	73.8	84.0	66.7	0.4	41.5	1	12	1903.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	6.5 81.8	90.0 76.0	143.5 74.8	199.5 73.7	63.7	71.9	59.3	71.6	0.0	16	0	1327.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 71.8	29.5 72.2	106.3 70.9	168.0 69.0	55.4	66.8	50.1	286.5	0.0	30	0	1065.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	90.8 72.7	157.7 70.3	54.1	67.5	48.3	328.4	0.0	30	0	927.

NOTE

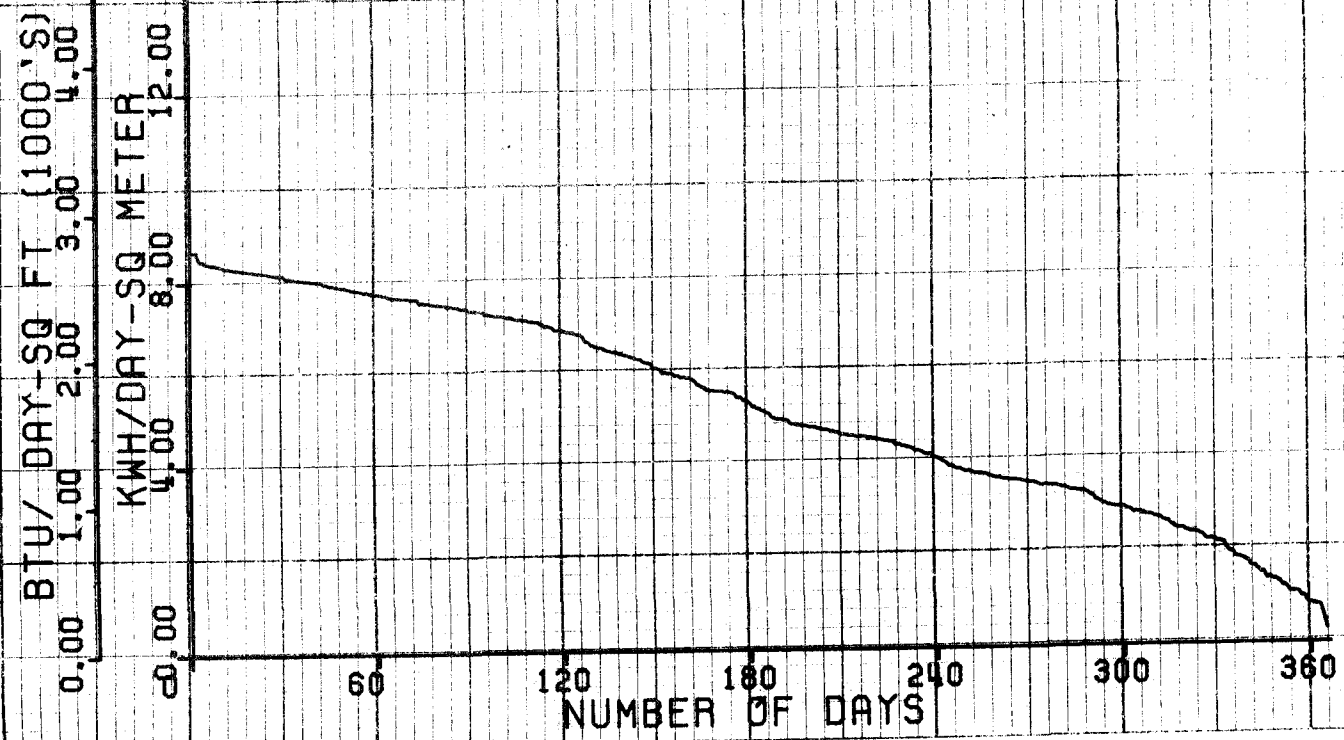
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

RAMONA, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR RAMONA, CALIF.

ACCOUNT/ 82824771
CHANNELS 82824773

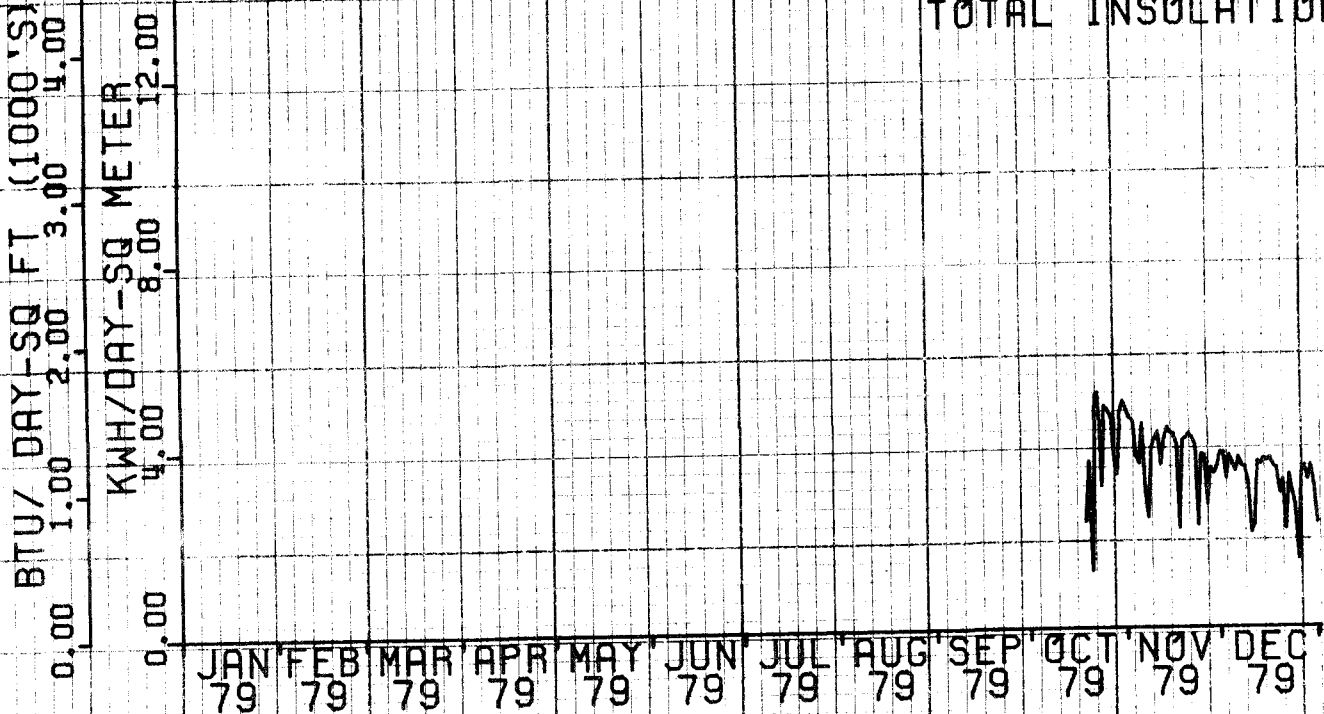
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	6.0 49.9	51.0 53.4	96.3 52.5	45.8	51.3	44.0	556.4	0.0	29	0	634.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.0 58.3	67.0 61.7	116.5 59.8	158.0 58.2	47.9	56.2	43.7	462.3	0.0	27	0	1196.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.3 57.5	46.5 64.9	91.3 63.6	133.2 61.9	175.5 60.4	50.0	58.1	46.5	451.2	0.0	30	0	1279.
4/79	NUM OF HOURS AVG TEMP (F)	0.8 57.3	33.5 69.9	112.0 68.4	165.2 67.4	211.5 66.3	255.7 65.2	55.5	64.1	49.4	284.1	0.0	30	0	2037.
5/79	NUM OF HOURS AVG TEMP (F)	0.3 61.7	48.0 74.6	116.5 73.4	164.5 72.0	207.5 70.7	250.0 69.5	59.4	67.6	53.3	194.5	0.0	26	0	2000.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	62.3 84.7	145.0 84.1	195.7 83.2	238.7 82.3	282.7 80.9	68.9	78.9	60.6	42.3	44.6	12	8	2341.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	53.5 86.3	144.7 86.2	199.7 85.4	251.7 84.3	298.5 83.1	72.5	81.7	64.2	9.5	30.9	4	12	2367.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	22.0 86.1	111.8 83.3	163.5 82.4	206.2 81.4	250.7 80.2	69.9	78.7	63.7	8.8	5.9	5	7	1958.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.3 86.8	76.5 89.4	152.5 87.7	207.2 86.6	251.7 85.4	74.2	84.1	67.2	4.0	59.2	2	12	1890.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	6.0 80.7	95.0 72.3	154.2 71.2	202.5 70.4	60.8	69.1	56.6	154.4	0.0	25	0	1339.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	34.3 65.2	104.3 64.2	165.5 63.1	53.4	61.6	49.8	348.3	0.0	30	0	1040.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.3 59.8	92.8 65.3	159.2 64.0	53.2	62.4	49.4	368.6	0.0	29	0	942.

NOTE

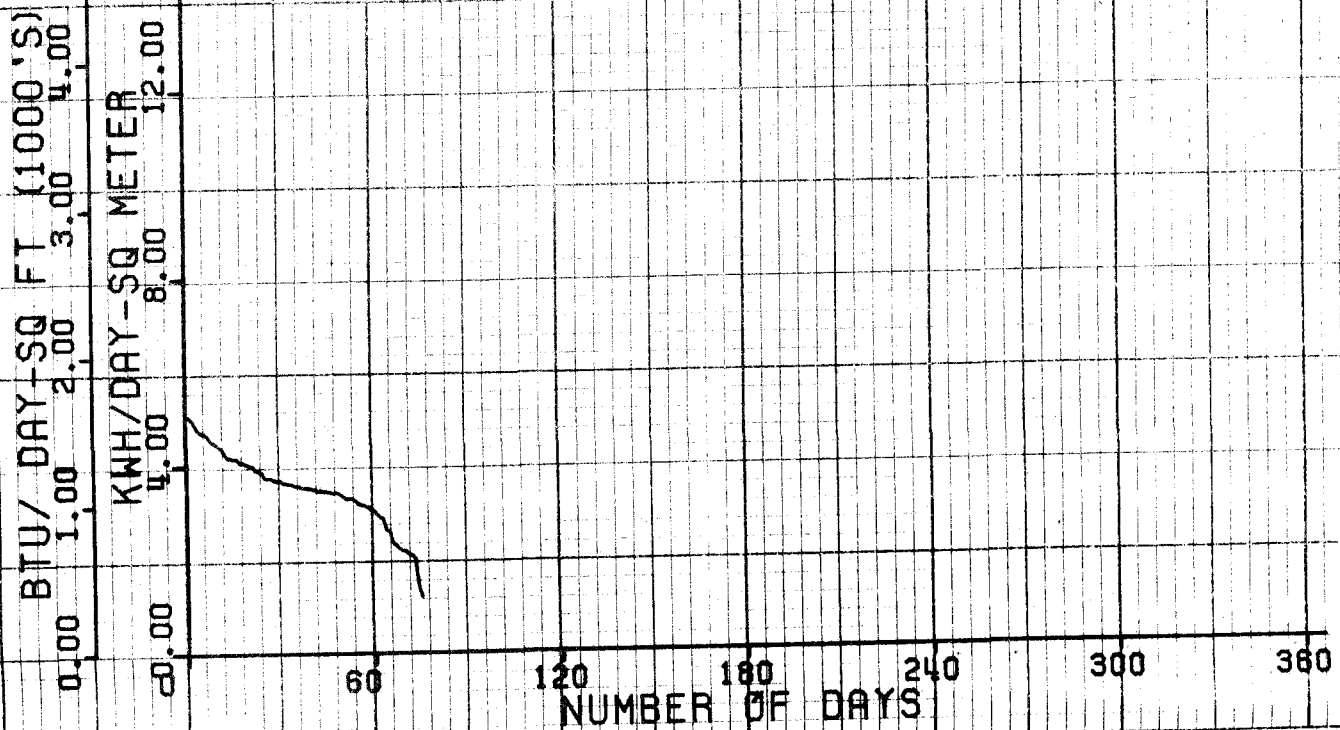
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

SAN DIEGO, CALIF
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR SAN DIEGO, CALIF

ACCOUNT/ 82824851
CHANNELS 82824853

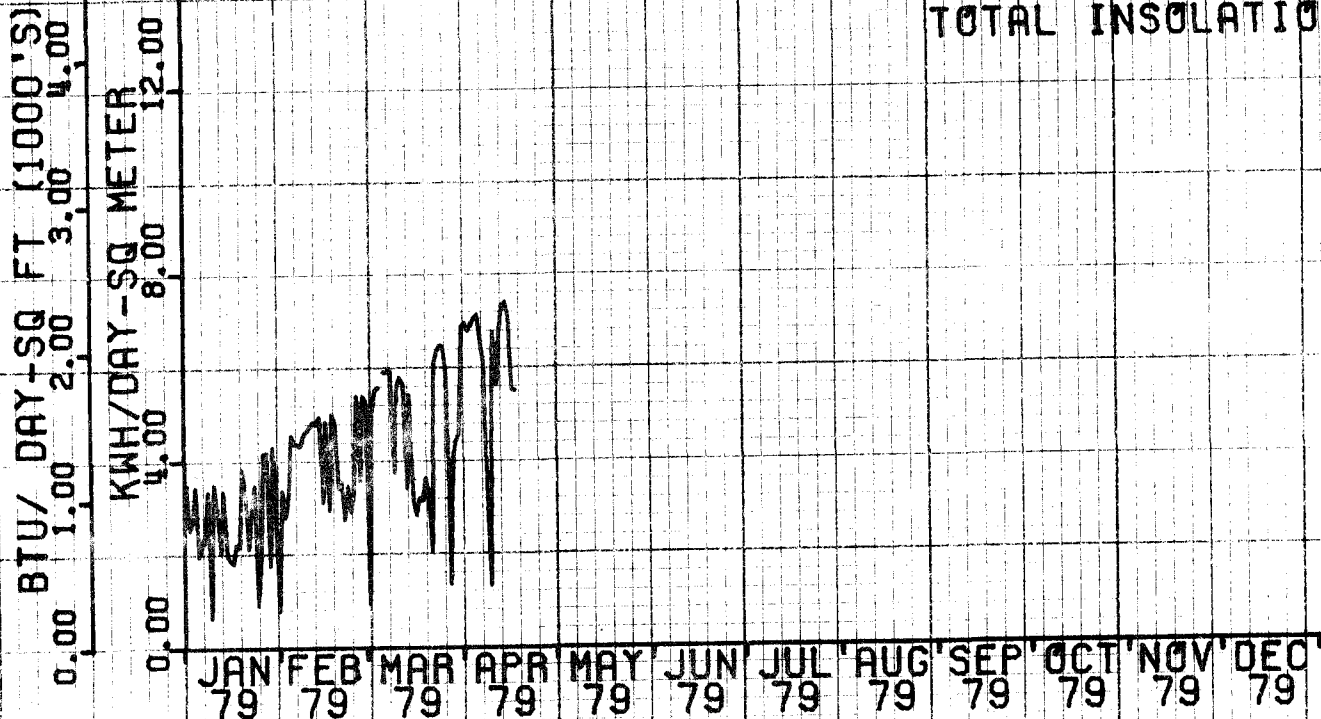
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP' (F)														
2/79	NUM OF HOURS AVG TEMP' (F)														
3/79	NUM OF HOURS AVG TEMP' (F)														
4/79	NUM OF HOURS AVG TEMP' (F)														
5/79	NUM OF HOURS AVG TEMP' (F)														
6/79	NUM OF HOURS AVG TEMP' (F)														
7/79	NUM OF HOURS AVG TEMP' (F)														
8/79	NUM OF HOURS AVG TEMP' (F)														
9/79	NUM OF HOURS AVG TEMP' (F)														
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	31.8 70.8	58.5 70.1	80.0 69.4	64.1	68.7	61.9	20.5	0.0	11	0	1174.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 67.6	28.8 69.4	113.0 68.0	177.2 67.0	60.2	65.8	57.4	143.7	0.0	30	0	1114.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 75.0	89.3 68.0	158.7 66.1	58.4	64.6	55.7	205.3	0.0	29	0	939.

NOTE

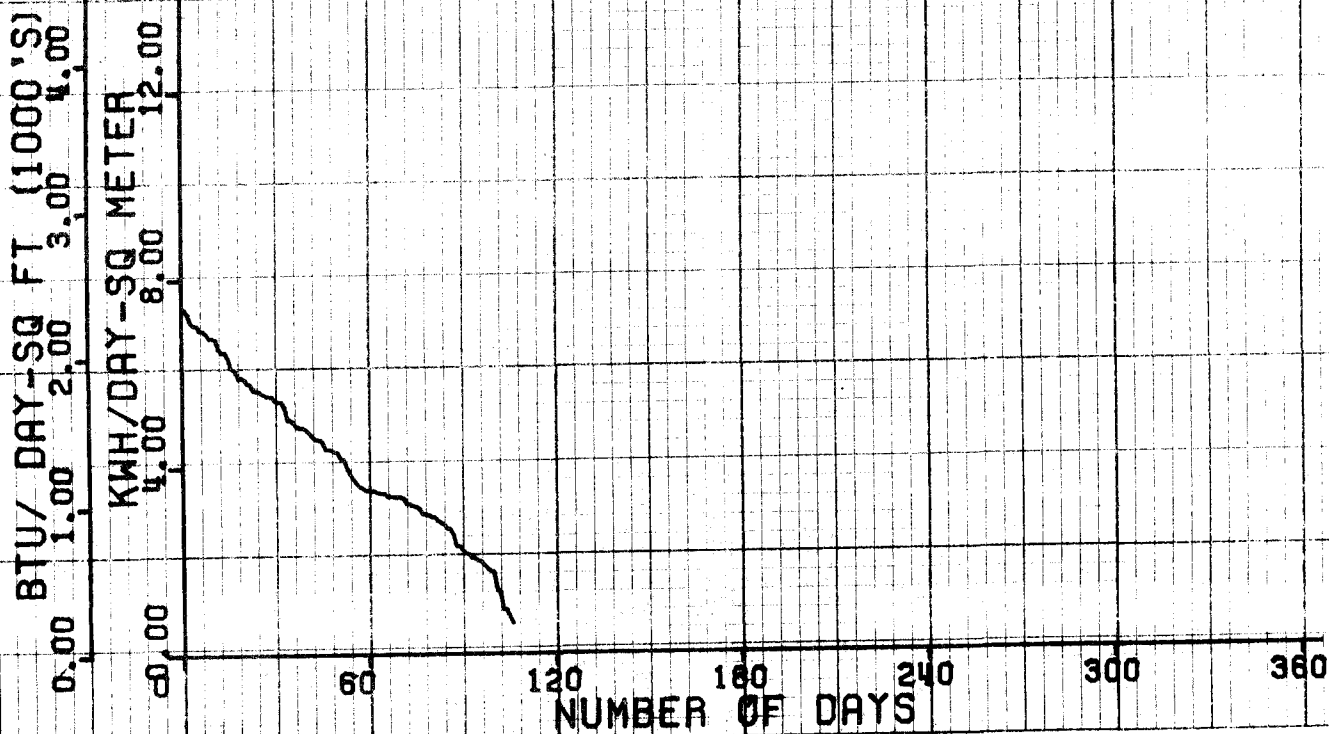
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

SPRING VALLEY, CA
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR SPRING VALLEY, CA

ACCOUNT/ CHANNELS 82824361
82824363

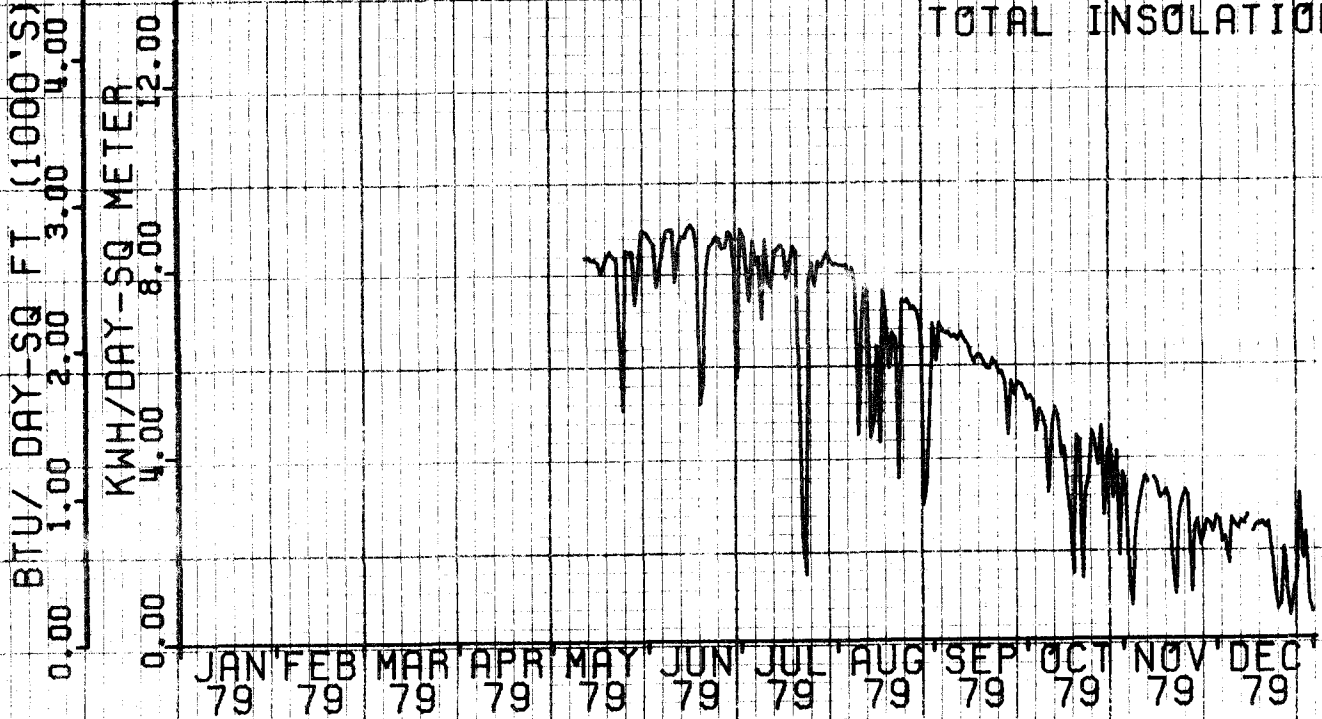
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT	
		350	300	250	200	150	100									
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 50.7	8.5 54.8	61.3 59.0	115.5 58.4	50.9	56.9	48.5	379.8	0.0	27	0	746.	
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 0.0	6.5 59.2	67.5 62.4	119.2 60.9	168.0 59.4	47.8	54.8	44.5	189.6	0.0	11	0	1245.	
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.0 66.0	45.8 66.7	93.8 65.7	142.7 64.0	189.7 62.4	53.1	59.3	49.9	308.3	0.0	26	0	1382.	
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	3.5 64.7	60.3 69.0	89.0 67.9	115.2 67.1	138.2 66.3	57.9	65.0	52.8	121.4	0.0	17	0	1866.	
5/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
6/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
7/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
8/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
9/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
10/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
11/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														
12/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----														

NOTE

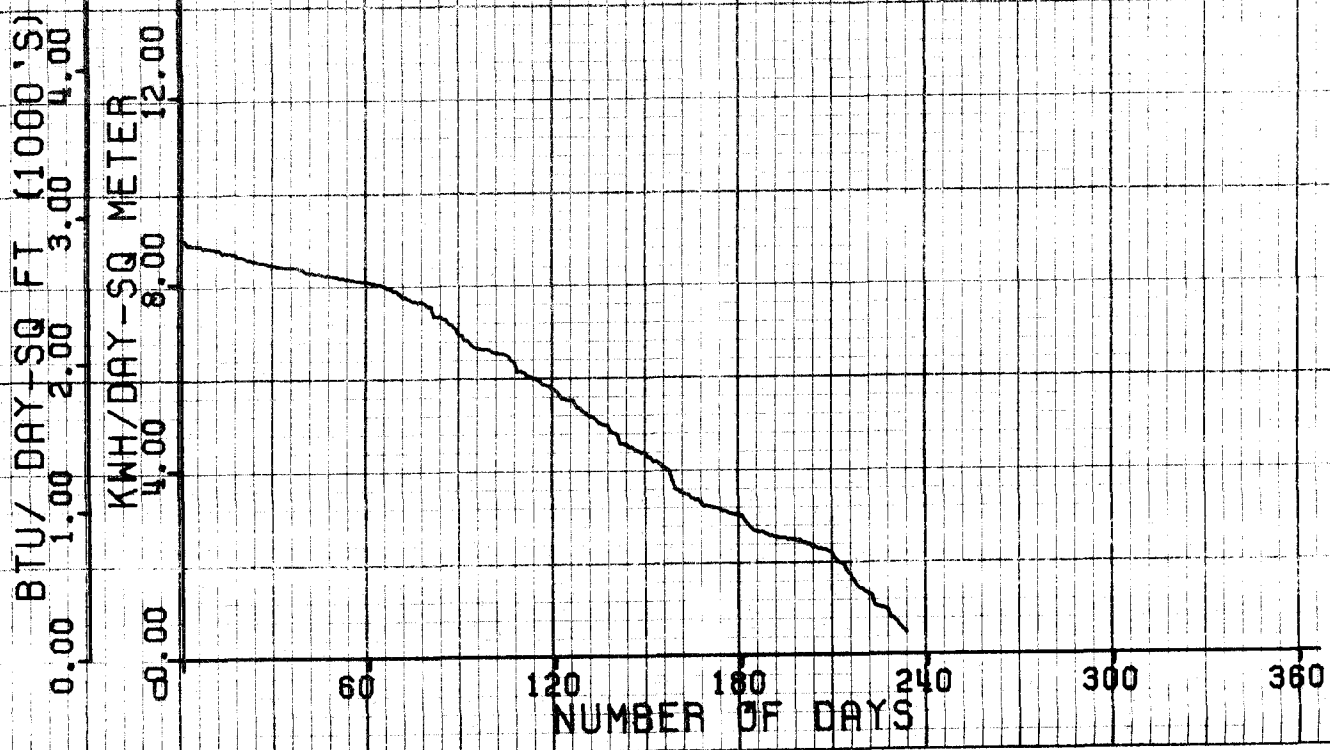
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

RENO, NEVADA
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR RENO, NEVADA

ACCOUNT/ 82842181
CHANNELS 82842183

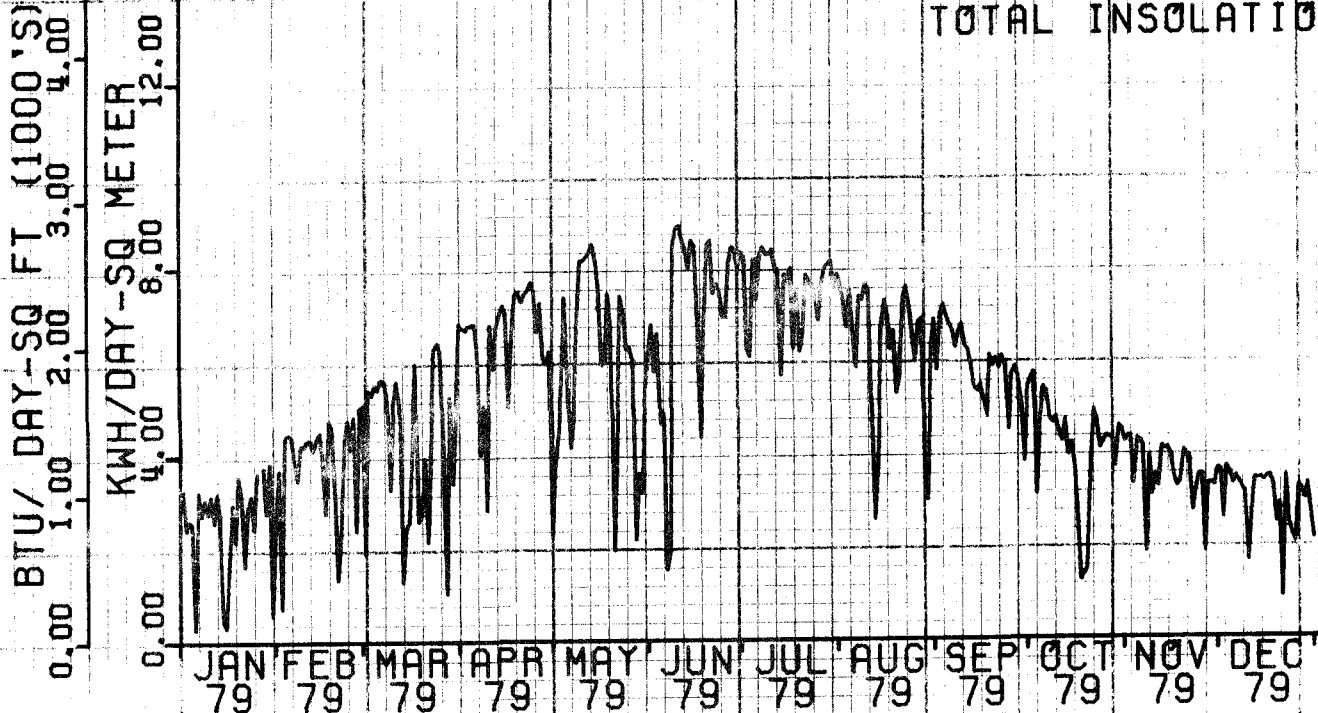
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
2/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
3/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
4/79	NUM OF HOURS AVG TEMP' (F)	----- INSUFFICIENT DATA -----													
5/79	NUM OF HOURS AVG TEMP' (F)	0.0 0.0	48.5 74.4	102.3 74.1	140.7 73.7	179.5 73.0	215.5 72.1	63.9	71.0	57.0	50.9	0.0	11	0	2485.
6/79	NUM OF HOURS AVG TEMP' (F)	1.8 65.9	80.0 79.2	151.5 78.6	204.7 77.6	252.7 76.6	305.0 75.4	66.6	73.9	59.1	61.0	0.0	9	0	2543.
7/79	NUM OF HOURS AVG TEMP' (F)	0.0 0.0	63.0 84.8	145.5 84.2	192.5 83.5	243.0 82.5	290.5 81.4	72.1	79.9	65.0	2.8	31.7	2	12	2339.
8/79	NUM OF HOURS AVG TEMP' (F)	0.3 78.7	16.0 84.3	106.0 82.4	158.0 81.4	203.7 80.2	259.5 78.7	69.1	77.2	63.2	21.8	14.4	8	8	1954.
9/79	NUM OF HOURS AVG TEMP' (F)	0.0 0.0	0.0 0.0	56.0 81.2	146.7 79.3	204.0 78.2	252.7 76.9	65.2	74.5	57.6	28.6	0.0	10	0	1840.
10/79	NUM OF HOURS AVG TEMP' (F)	0.0 0.0	0.0 0.0	3.5 75.4	52.5 71.3	119.5 67.0	176.2 65.1	54.4	62.8	50.5	320.3	0.0	27	0	1148.
11/79	NUM OF HOURS AVG TEMP' (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 52.0	46.5 48.9	115.5 46.9	38.3	45.9	35.7	748.1	0.0	28	0	729.
12/79	NUM OF HOURS AVG TEMP' (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	6.0 38.4	83.3 44.8	35.9	43.9	33.8	874.0	0.0	30	0	502.

NOTE

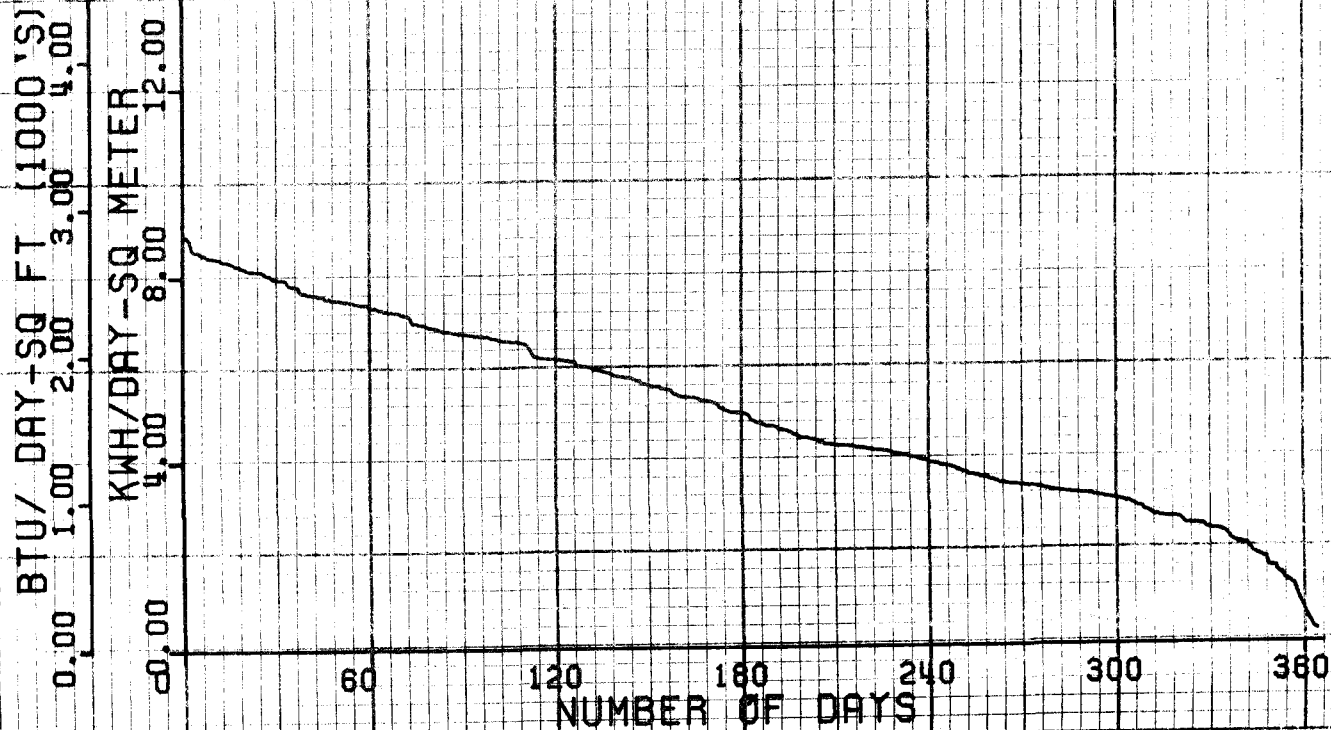
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

ALHAMBRA, CAL.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR ALHAMBRA, CAL.

ACCOUNT/
CHANNELS 22955091
22955093

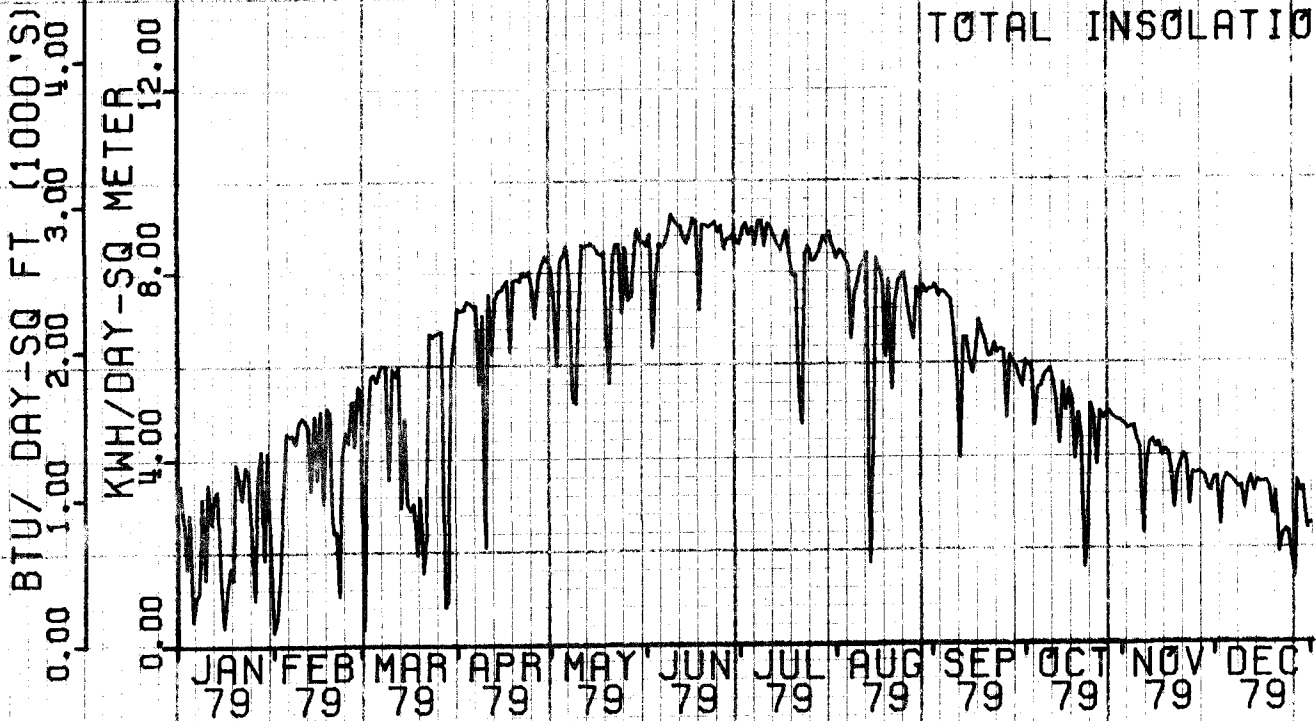
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	5.5 59.8	62.0 60.8	121.7 60.1	51.6	58.8	49.2	416.5	0.0	31	0	724.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.0 63.7	54.3 66.1	110.5 65.7	163.7 64.1	53.9	62.5	49.8	310.0	0.0	28	0	1163.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.5 62.1	29.5 70.0	86.5 70.2	136.5 68.4	186.0 66.7	56.8	64.8	52.8	265.0	0.0	28	0	1306.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	10.5 71.7	102.0 73.9	158.0 73.0	201.5 71.8	247.2 70.5	61.5	69.0	56.2	109.1	0.0	24	0	1952.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	22.0 83.1	92.0 78.2	135.2 76.8	179.5 75.0	234.7 73.1	64.0	71.0	59.0	83.6	8.7	22	2	1817.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	52.0 89.4	128.0 86.3	176.5 84.8	222.5 83.3	261.7 82.0	71.1	80.0	64.2	11.1	54.5	7	8	2167.
7/79	NUM OF HOURS AVG TEMP (F)	0.5 71.5	43.0 85.4	144.5 84.6	201.0 83.5	247.5 82.4	295.7 81.2	71.9	79.8	65.1	1.4	5.2	2	7	2325.
8/79	NUM OF HOURS AVG TEMP (F)	0.3 89.2	3.5 85.1	100.8 84.8	155.2 83.8	206.7 82.8	256.0 81.4	72.1	79.7	66.5	0.0	13.1	0	7	1930.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	58.3 90.8	144.0 89.8	199.2 88.5	245.0 87.1	75.9	85.6	69.3	0.0	77.0	0	14	1801.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.8 77.8	71.5 78.0	136.2 76.7	186.0 75.6	65.5	73.9	61.4	31.1	0.0	16	0	1227.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	17.8 74.9	105.8 72.0	169.7 70.4	59.6	68.9	55.1	165.2	0.0	27	0	1062.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	77.0 73.1	147.7 70.9	58.3	68.8	54.0	220.1	0.0	26	0	877.

NOTE

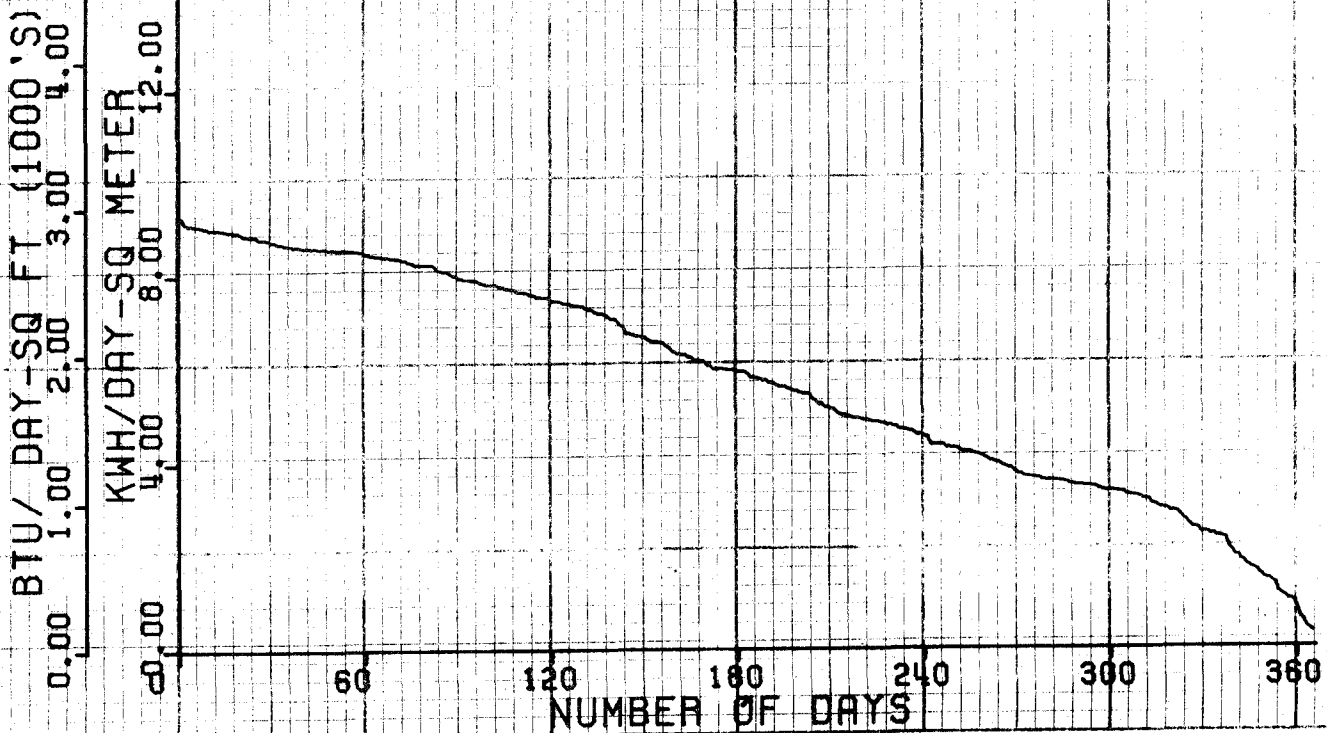
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

ARROWHEAD, CAL.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR ARROWHEAD, CAL.

ACCOUNT/ CHANNELS 40955011
40955013

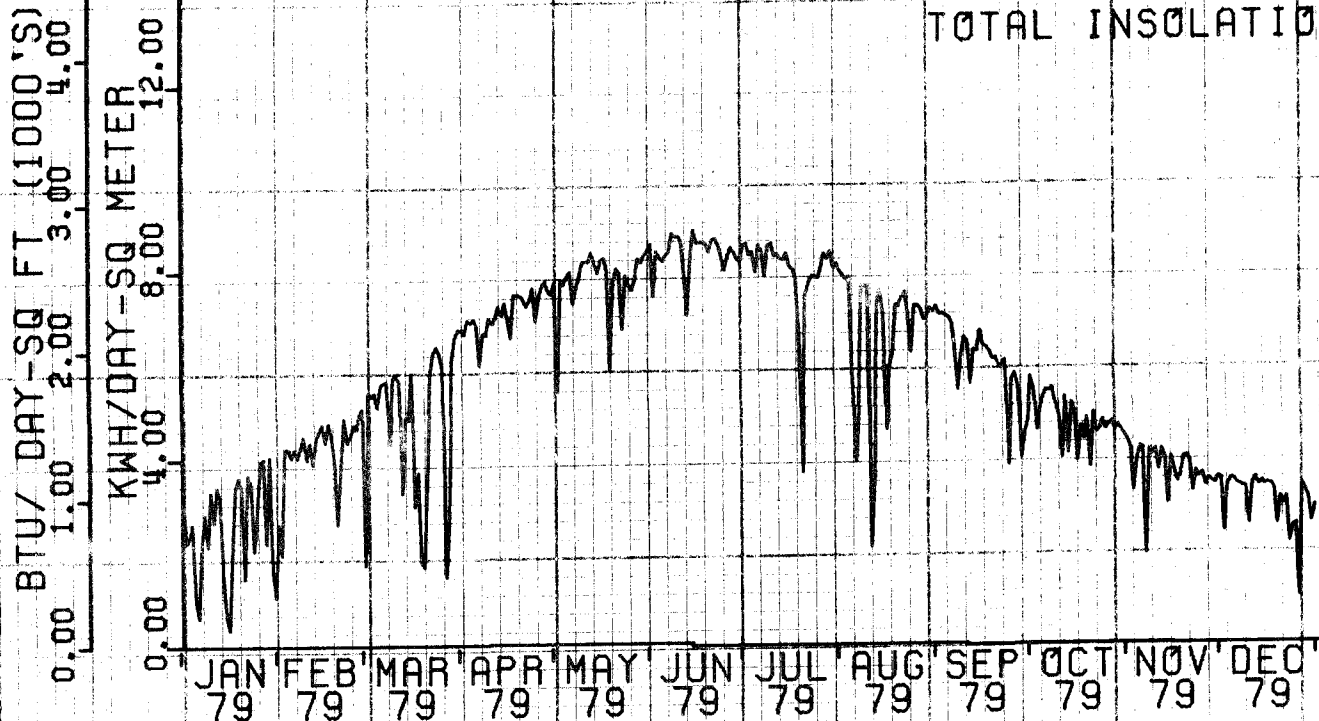
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	14.8 42.3	60.0 43.8	101.8 43.2	36.7	41.7	35.3	848.4	0.0	30	0	677.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	10.0 50.8	71.5 51.2	117.7 50.0	160.2 49.3	41.1	47.5	38.1	670.6	0.0	28	0	1207.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	4.0 50.6	57.3 56.3	100.5 56.4	139.7 55.3	191.5 53.5	43.7	50.9	40.4	638.8	0.0	30	0	1383.
4/79	NUM OF HOURS AVG TEMP (F)	0.8 61.9	56.5 64.2	133.2 63.4	190.0 62.8	234.5 62.2	276.2 61.3	53.0	60.0	47.3	360.4	0.0	30	0	2275.
5/79	NUM OF HOURS AVG TEMP (F)	1.0 63.4	80.0 70.9	150.7 70.6	206.0 70.1	256.5 69.5	302.7 68.7	60.4	67.5	53.9	169.6	0.0	21	0	2453.
6/79	NUM OF HOURS AVG TEMP (F)	0.3 83.0	100.5 79.8	173.0 79.5	226.2 79.1	272.7 78.5	319.5 77.7	69.9	76.7	63.1	38.1	22.0	6	8	2717.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	96.5 83.2	170.0 83.5	223.7 83.0	271.5 82.5	321.5 81.6	73.8	80.7	67.1	16.1	60.7	5	19	2623.
8/79	NUM OF HOURS AVG TEMP (F)	0.5 78.9	60.8 80.1	133.2 80.2	190.2 79.8	240.7 79.1	288.5 78.2	70.3	77.1	64.8	8.8	16.2	6	7	2273.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	12.5 81.5	99.8 83.1	162.7 82.8	208.0 82.3	255.0 81.5	73.2	80.4	67.9	0.4	35.8	1	9	1976.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 75.3	25.5 73.9	108.5 69.7	172.0 68.8	225.5 67.8	59.4	66.5	55.2	203.3	0.0	23	0	1508.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.8 57.5	52.0 57.0	129.5 56.0	182.2 55.3	47.5	54.1	44.3	507.6	0.0	29	0	1182.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.3 54.8	87.0 55.8	154.2 54.3	46.3	52.9	43.6	580.9	0.0	31	0	901.

NOTE

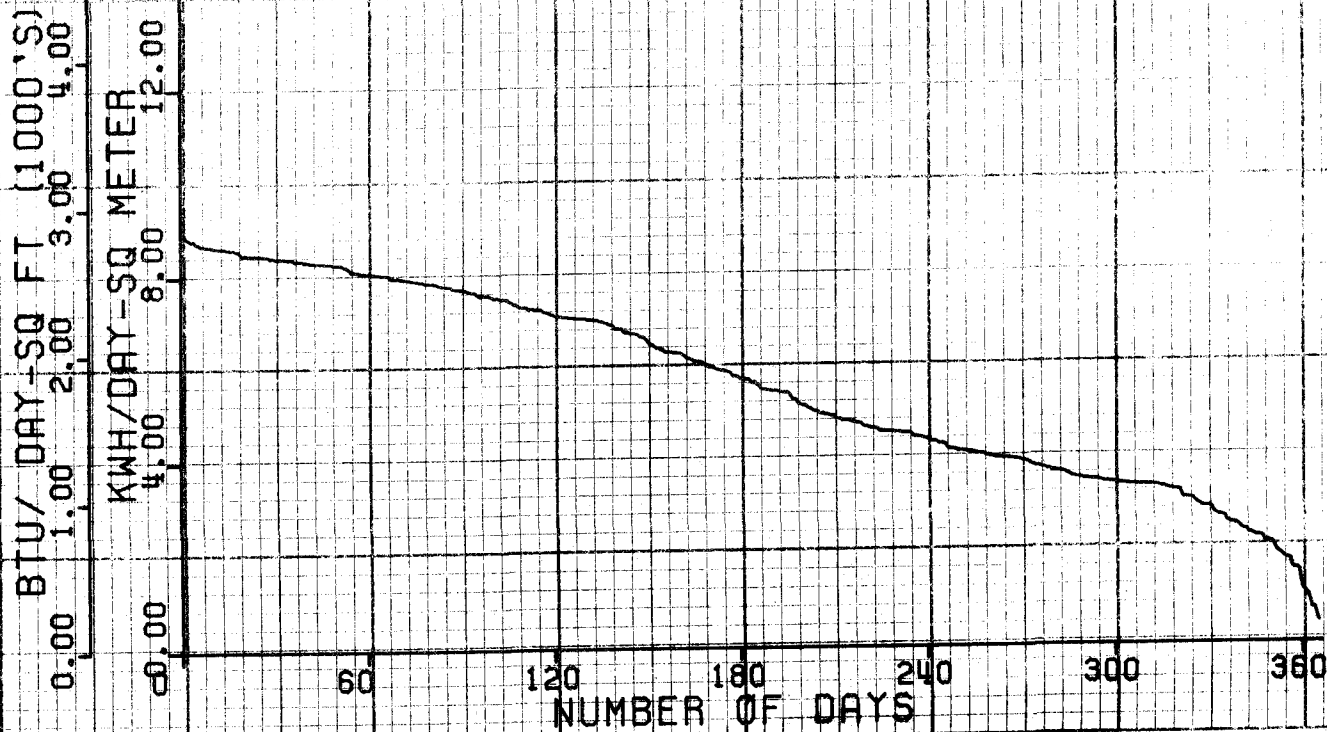
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

BARSTOW, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR BARSTOW, CALIF.

ACCOUNT/ CHANNELS 72955611
72955613

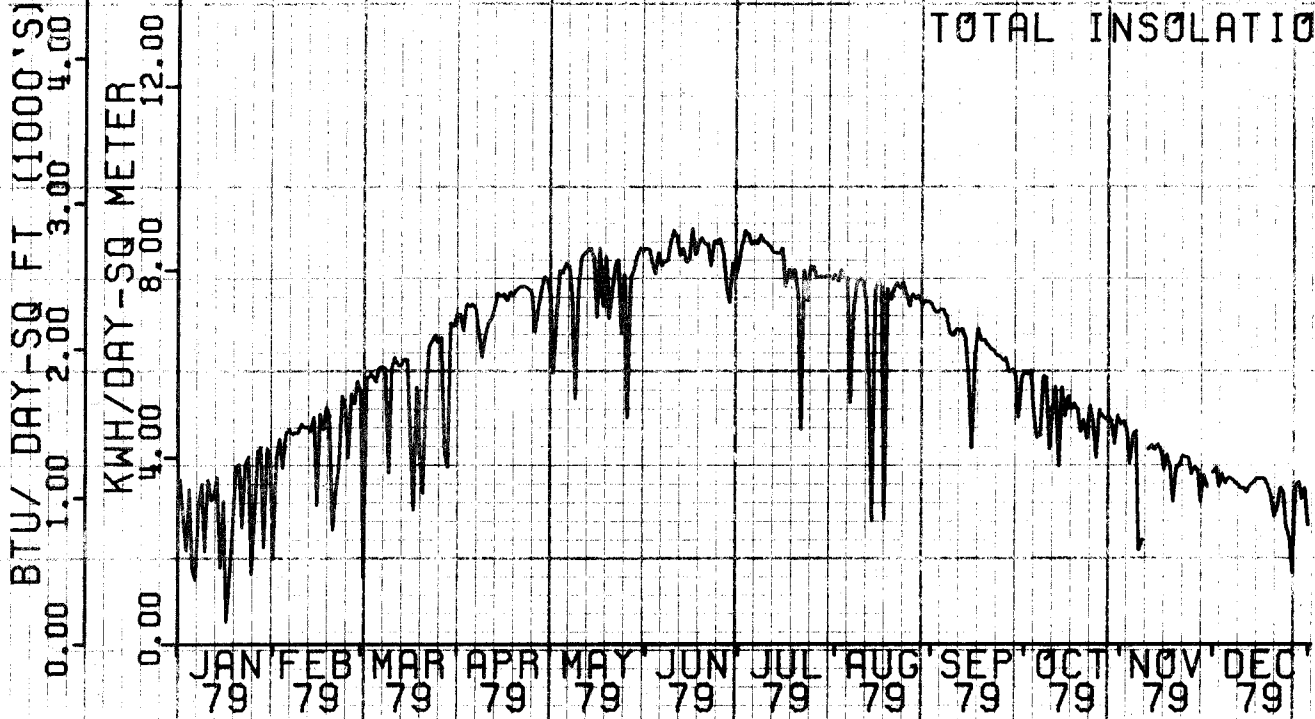
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	5.0 55.7	60.0 58.3	115.7 57.9	51.9	57.0	50.2	392.7	0.0	29	0	731.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.8 65.3	68.5 65.5	130.5 64.4	183.0 63.6	56.7	62.9	53.5	231.5	0.0	28	0	1299.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	45.8 72.9	106.5 72.2	157.0 71.1	205.5 70.0	61.8	68.0	58.2	126.2	0.0	21	0	1474.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	19.5 80.2	124.5 78.8	188.5 78.1	236.7 77.4	282.7 76.6	69.4	75.8	64.1	16.2	3.1	8	3	2238.
5/79	NUM OF HOURS AVG TEMP (F)	0.3 94.1	62.5 88.2	149.0 87.0	208.2 86.3	259.2 85.3	311.7 84.7	77.6	83.8	71.8	2.9	133.8	1	24	2445.
6/79	NUM OF HOURS AVG TEMP (F)	0.3 96.3	81.3 95.9	160.2 95.4	217.0 94.7	268.5 94.0	317.2 93.1	84.6	91.5	78.1	0.0	119.8	0	10	2629.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	64.8 73.7	154.0 73.3	213.0 72.5	267.0 71.6	315.7 70.7	62.6	69.5	55.9	59.7	0.0	15	0	2497.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	15.8 98.5	112.7 93.7	171.0 92.5	221.2 91.4	268.7 90.3	81.2	88.6	75.1	0.0	172.9	0	24	2068.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	78.5 95.9	148.0 94.3	200.0 93.1	253.2 92.1	82.9	91.1	76.8	0.0	230.2	0	29	1879.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	6.3 89.3	99.8 78.6	166.5 77.6	222.2 76.7	68.3	75.9	63.8	54.8	28.4	10	7	1474.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	23.5 63.5	115.5 61.3	179.7 60.4	51.7	59.6	47.8	398.7	0.0	30	0	1126.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 60.4	84.3 58.2	155.5 57.3	47.5	55.7	44.0	525.7	0.0	30	0	911.

NOTE

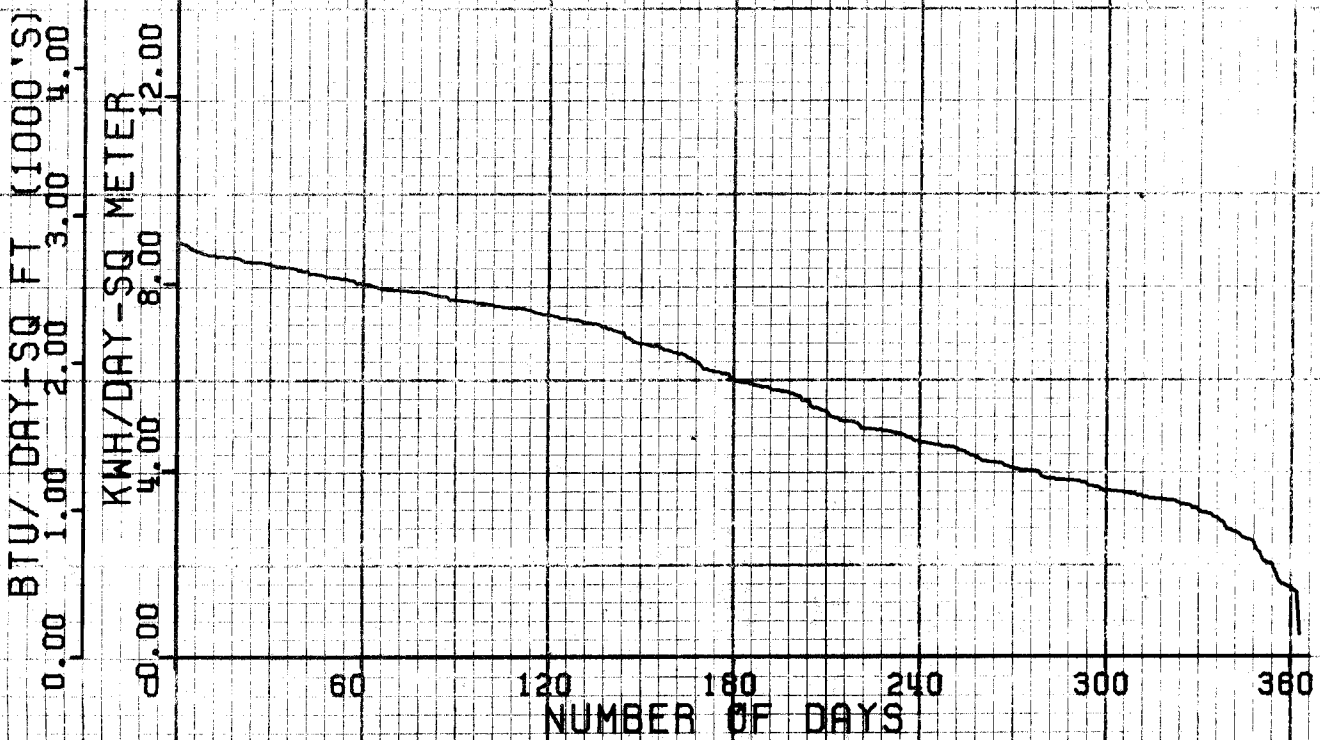
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

BLYTHE, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR BLYTHE, CALIF.

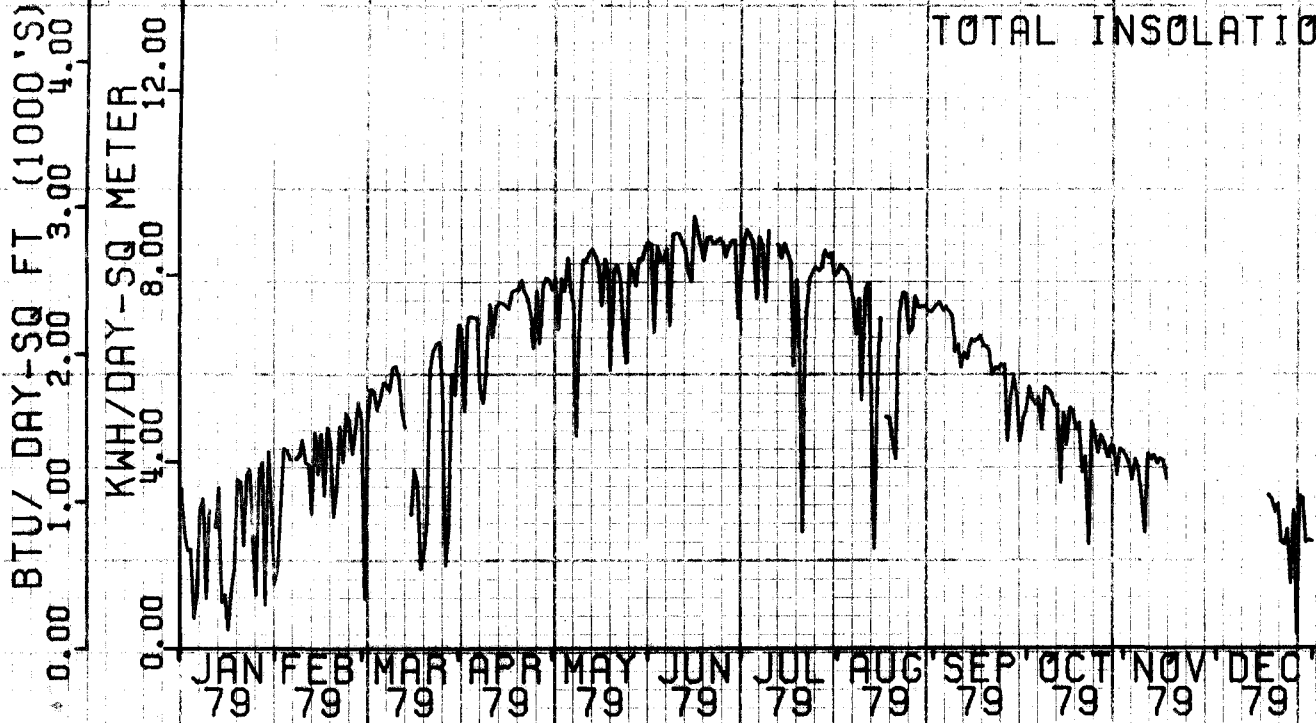
ACCOUNT/ 87955281
CHANNELS 87955283

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 54.5	10.0 53.0	77.3 57.2	134.5 56.6	49.2	55.8	46.8	472.7	0.0	30	0	823.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.3 71.3	75.8 67.0	143.5 66.0	193.2 65.2	55.7	64.0	51.1	250.7	0.0	27	0	1372.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 65.0	64.5 74.0	129.7 73.1	182.2 72.4	226.5 71.4	62.3	69.7	57.6	113.5	0.0	19	0	1657.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	22.0 85.0	130.5 83.0	188.7 82.3	237.7 81.5	283.0 80.5	71.8	79.5	65.5	3.3	31.1	3	10	2258.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	69.0 90.3	145.2 89.4	200.5 88.7	252.5 87.9	299.0 87.0	79.1	86.0	73.1	0.7	169.5	1	23	2378.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	79.3 100.8	158.7 100.6	215.2 100.1	264.0 99.3	310.7 98.4	89.9	97.2	82.7	0.0	431.0	0	29	2591.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	68.8 104.3	158.7 103.9	216.2 103.3	263.7 102.6	313.0 101.6	93.4	100.4	86.9	0.0	552.8	0	30	2507.
8/79	NUM OF HOURS AVG TEMP (F)	0.3 104.0	32.5 101.2	130.7 100.1	187.0 99.5	236.2 98.7	284.7 97.6	89.3	96.4	83.5	0.0	429.6	0	30	2200.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	86.8 102.6	161.2 101.6	212.2 100.9	259.2 99.8	90.7	98.6	84.9	0.0	471.3	0	30	1950.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	12.8 96.5	104.5 88.2	171.0 86.8	228.7 85.7	75.8	84.4	70.4	4.8	97.9	1	18	1510.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	28.8 71.5	123.2 69.3	184.7 68.4	58.8	67.2	54.6	172.3	0.0	28	0	1160.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	93.8 66.1	167.2 65.0	55.6	63.8	51.8	295.3	0.0	30	0	975.

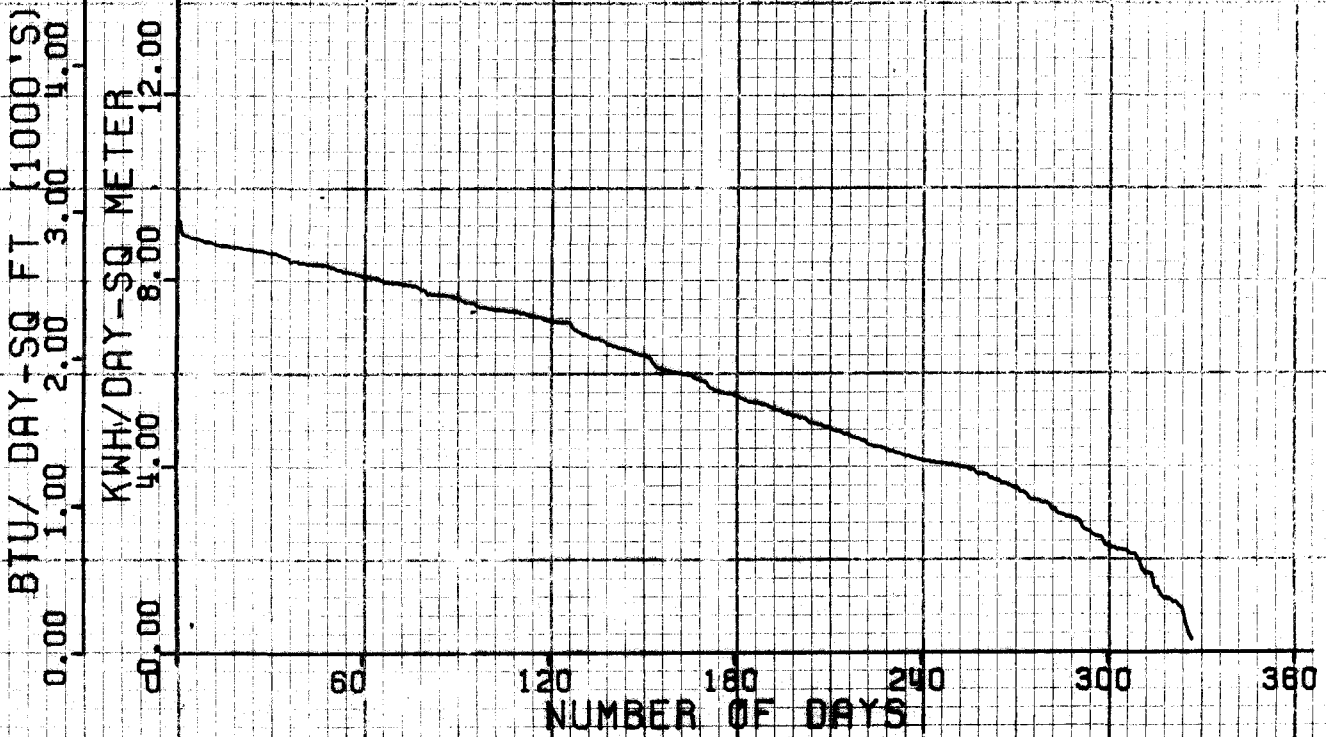
NOTE
 AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

ELDORADO, NEV.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR ELDORADO, NEV.

ACCOUNT/
CHANNELS 72955951
72955953

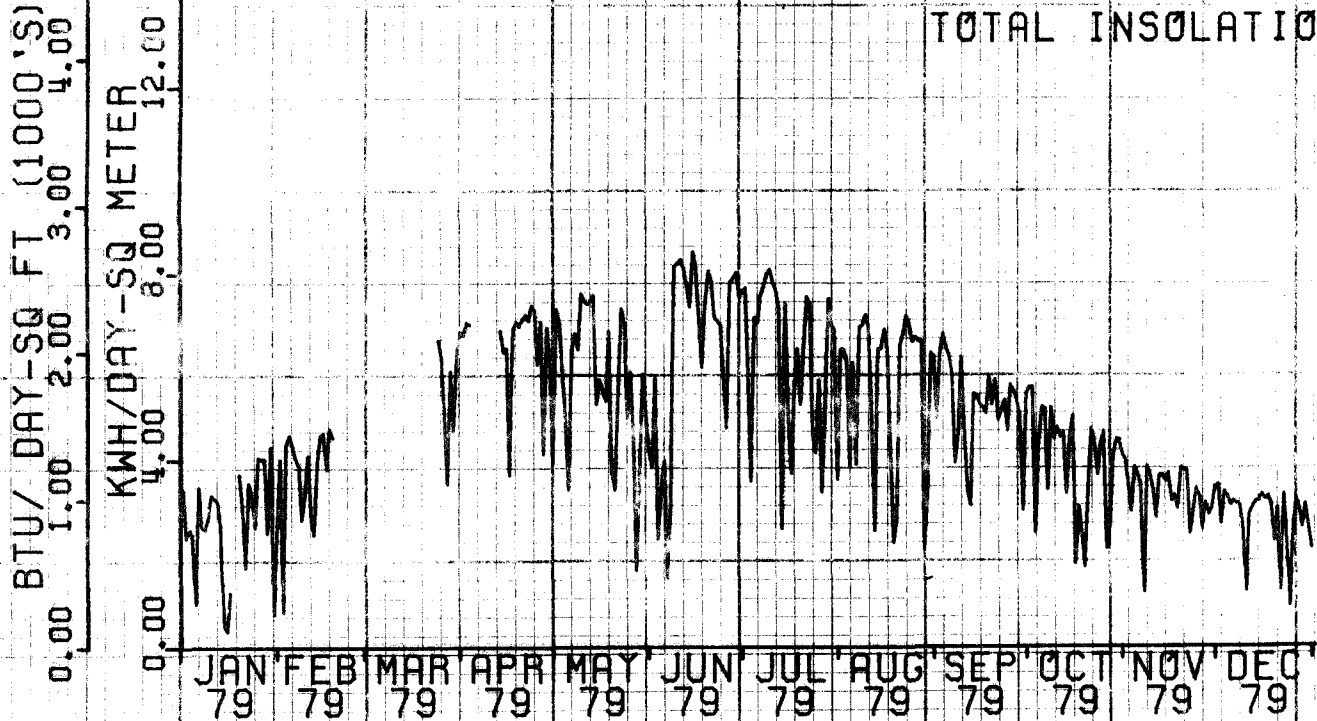
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	2.0 34.3	51.8 42.4	100.8 41.9	36.9	41.0	35.9	813.9	0.0	29	0	662.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 56.8	55.5 53.8	114.7 52.3	169.2 51.6	44.4	50.1	41.6	557.1	0.0	27	0	1239.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.8 60.4	42.5 62.5	102.0 61.7	147.5 61.2	199.2 59.8	51.5	58.0	47.8	404.2	0.0	30	0	1431.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	30.5 74.6	125.7 72.5	180.2 71.7	230.2 71.0	277.7 70.2	62.5	69.2	56.9	127.7	0.0	18	0	2207.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	64.0 82.6	142.0 81.5	207.0 81.0	259.0 80.4	305.2 79.7	72.4	78.9	66.5	29.9	51.5	6	14	2413.
6/79	NUM OF HOURS AVG TEMP (F)	0.8 95.7	86.5 93.2	161.7 93.0	219.0 92.4	265.0 91.7	311.2 90.9	83.5	90.0	76.7	0.0	252.8	0	22	2627.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	72.5 100.1	153.2 99.6	209.2 98.9	260.5 98.0	310.0 96.9	88.0	95.3	81.2	0.0	356.1	0	26	2473.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	26.5 97.2	111.8 95.0	169.7 93.9	219.7 92.9	266.0 91.8	83.6	90.1	77.9	0.0	251.4	0	23	2070.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 92.3	85.0 93.0	154.5 91.8	209.2 90.7	253.0 89.9	81.8	88.9	75.9	0.0	175.7	0	26	1922.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 88.4	4.5 88.6	83.8 79.6	155.2 76.3	218.2 74.9	67.1	73.7	63.1	77.1	11.6	11	7	1413.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	4.8 63.0	56.5 61.9	85.0 60.3	49.9	58.8	45.1	211.3	0.0	14	0	1156.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 0.0	26.5 51.1	59.8 49.6	42.8	49.3	39.2	66.5	0.0	3	0	728.

NOTE

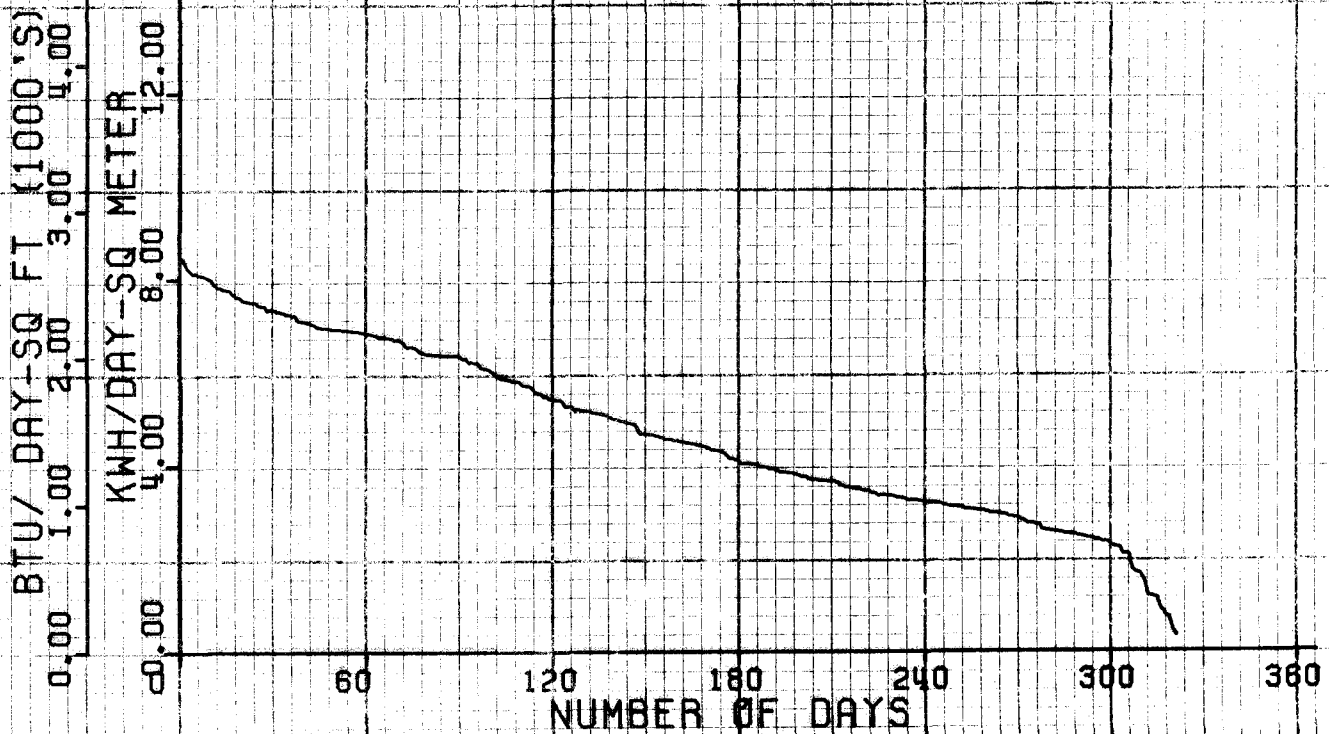
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

EL SEGUNDO, CAL.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR EL SEGUNDO, CAL.

ACCOUNT/ 44950813
CHANNELS 44950992

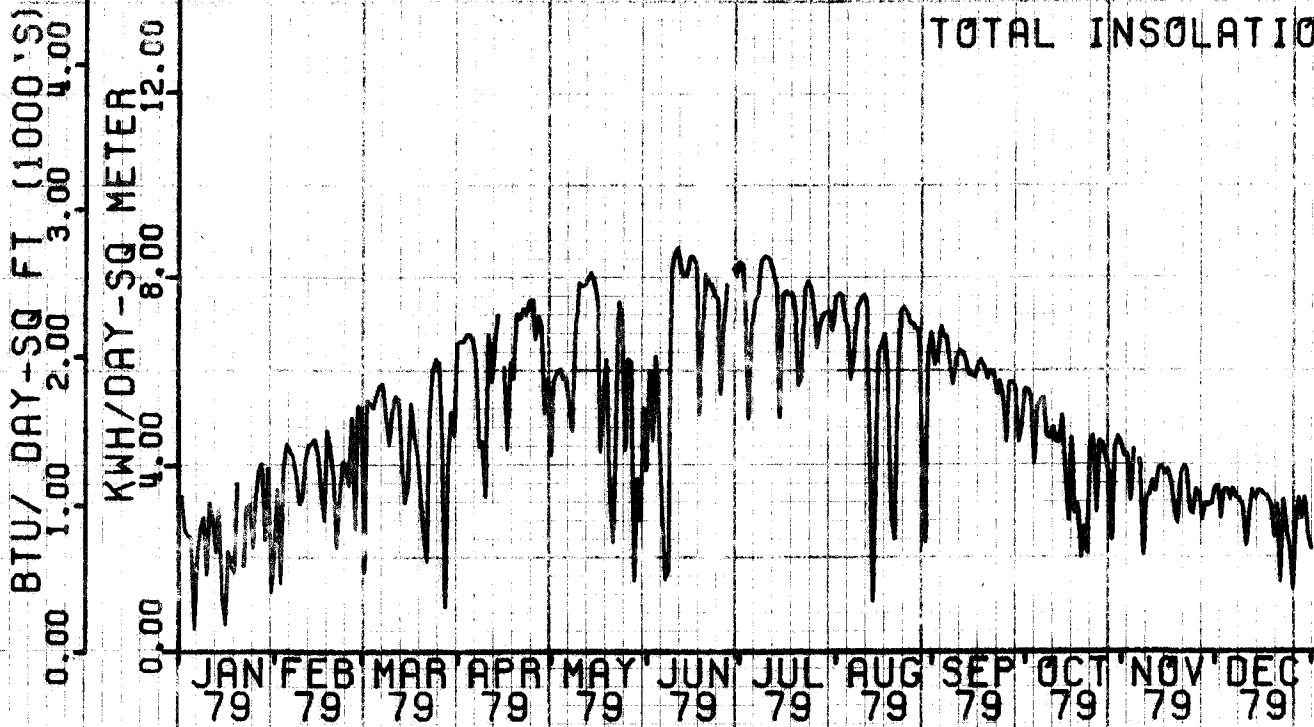
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	8.0 55.2	68.0 57.7	121.0 57.7	54.6	57.6	53.5	281.5	0.0	27	0	762.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	30.3 57.9	68.5 57.3	105.3 56.5	53.6	55.8	51.3	317.9	0.0	28	0	1127.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 58.8	23.3 60.3	39.8 60.1	51.5 59.9	63.3 59.7	56.7	59.2	55.7	250.3	0.0	28	0	1725.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.3 63.1	75.8 62.6	117.0 62.5	154.0 62.3	188.0 61.9	59.2	61.4	57.2	174.7	0.0	30	0	1974.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.3 62.2	80.0 64.5	129.0 64.4	179.7 64.2	226.7 63.9	61.0	63.3	59.4	142.0	0.9	29	1	1722.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	23.0 70.5	105.0 69.5	160.0 69.3	200.0 69.1	246.7 68.7	65.4	68.0	63.4	32.3	6.7	20	2	1989.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	6.8 69.4	81.5 69.1	135.7 68.8	194.5 68.4	259.5 67.9	65.2	67.4	63.6	22.1	0.0	13	0	1872.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 71.9	78.0 71.9	131.7 71.6	180.5 71.3	233.5 71.0	67.7	70.4	66.0	1.8	0.0	4	0	1716.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	25.8 73.0	106.0 73.7	167.2 73.5	222.7 73.1	70.3	72.6	68.8	0.0	8.2	0	4	1570.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 69.6	69.8 68.3	129.0 67.7	180.7 67.3	64.8	66.9	63.7	31.2	0.0	16	0	1194.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	84.5 64.0	163.5 63.9	60.4	63.2	59.2	136.3	0.0	26	0	981.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	55.8 65.7	141.0 64.7	60.3	63.6	58.9	159.5	0.0	24	0	800.

*NOTEX

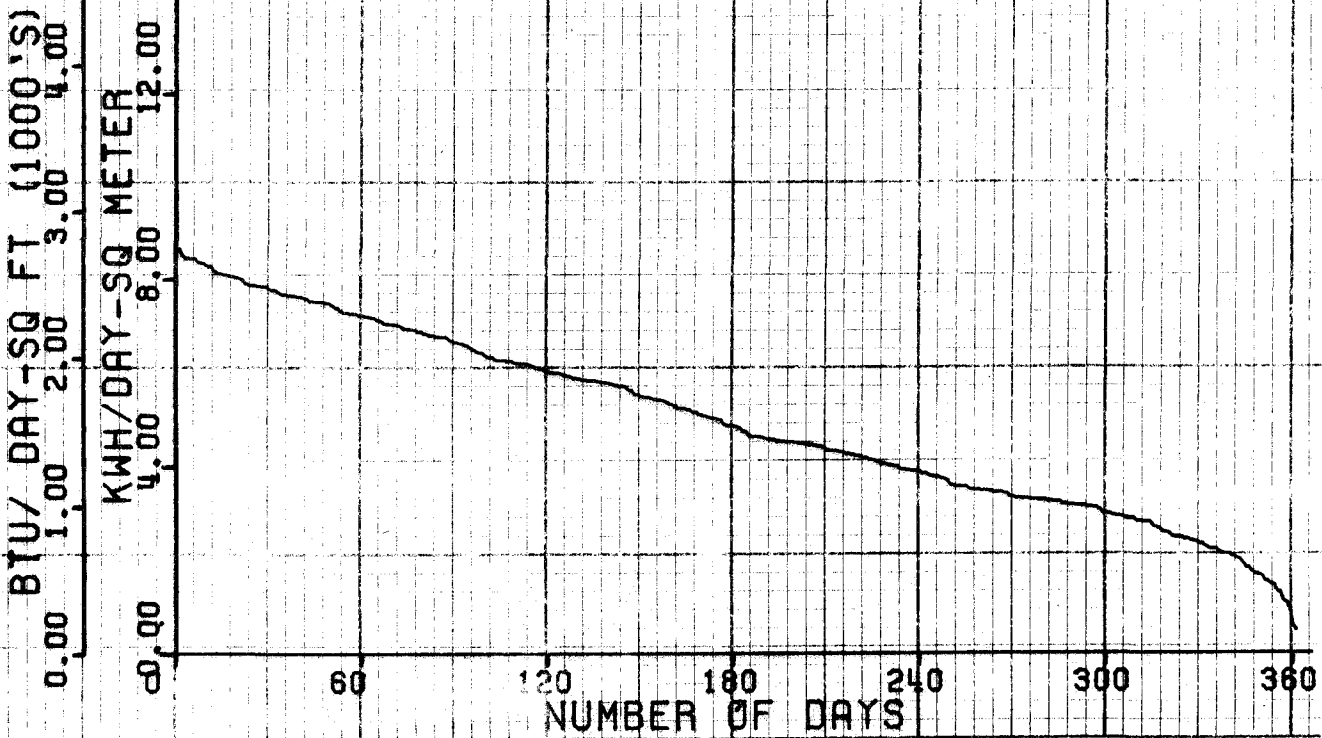
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

EL TORO, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR EL TORO, CALIF.

ACCOUNT/ CHANNELS 43951901
43951903

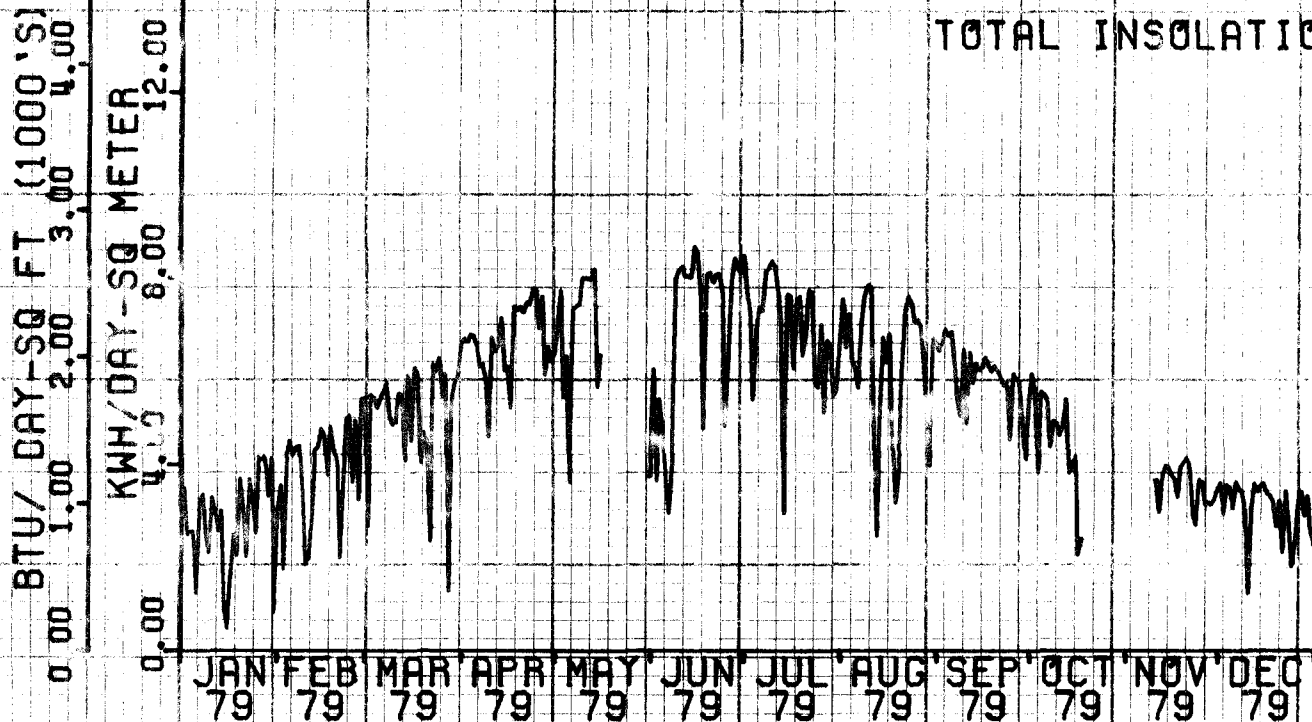
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	4.0 56.2	50.5 60.1	110.5 60.5	53.7	59.6	51.9	328.3	0.0	29	0	696.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.8 60.3	54.8 61.4	107.8 60.9	161.0 60.4	54.6	59.3	52.3	290.5	0.0	28	0	1165.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.8 62.8	35.8 67.7	92.0 66.5	144.7 65.5	199.7 64.4	58.6	63.5	56.0	199.7	0.0	28	0	1383.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	4.5 69.4	93.3 71.3	149.5 70.6	199.2 70.0	249.0 69.3	63.3	68.3	59.7	58.3	0.0	22	0	1916.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	24.3 78.8	80.8 76.5	129.7 75.8	171.5 75.1	220.5 74.1	67.3	72.5	63.8	13.3	13.2	11	3	1717.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	42.0 85.9	117.7 84.2	169.0 83.3	211.7 82.5	250.0 81.8	73.5	79.9	68.5	0.0	57.0	0	10	2097.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	40.3 83.1	139.5 82.3	195.2 81.6	243.2 81.0	287.5 80.5	74.2	79.8	69.7	0.0	20.8	0	13	2257.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	10.5 85.4	98.5 83.6	146.7 82.9	193.0 82.2	240.2 81.4	75.1	80.3	71.4	0.0	32.9	0	13	1842.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	70.8 87.1	152.2 85.5	200.7 84.8	246.0 84.1	77.2	83.1	73.2	0.0	88.9	0	18	1828.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.3 80.3	75.3 75.1	131.0 74.0	188.0 73.4	67.8	72.4	65.4	14.3	0.1	7	1	1256.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	17.0 66.9	104.3 66.8	169.5 66.2	59.9	65.4	57.3	147.5	0.0	29	0	1055.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	77.8 66.9	151.2 65.8	58.8	64.7	56.4	200.9	0.0	28	0	884.

NOTE

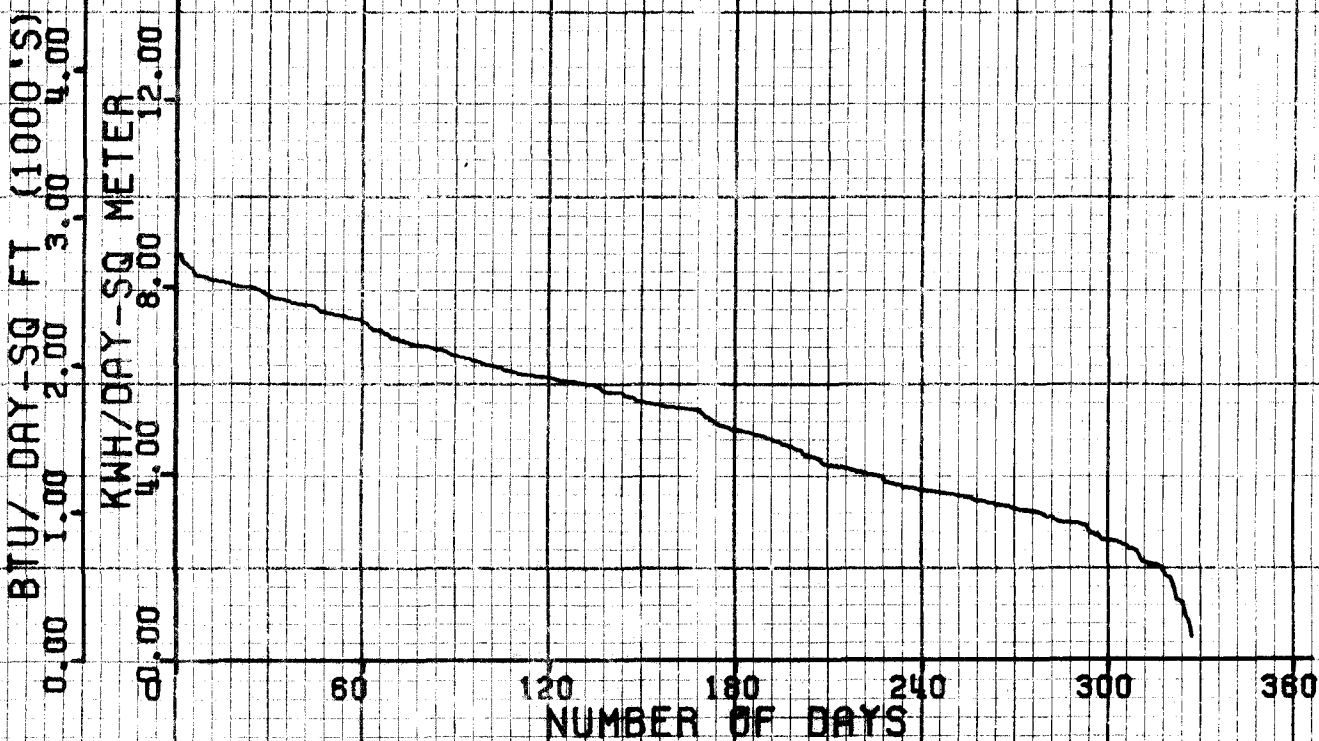
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

HUNTINGTON BEACH
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR HUNTINGTON BEACH

ACCOUNT/ 33951003
CHANNELS 33951182

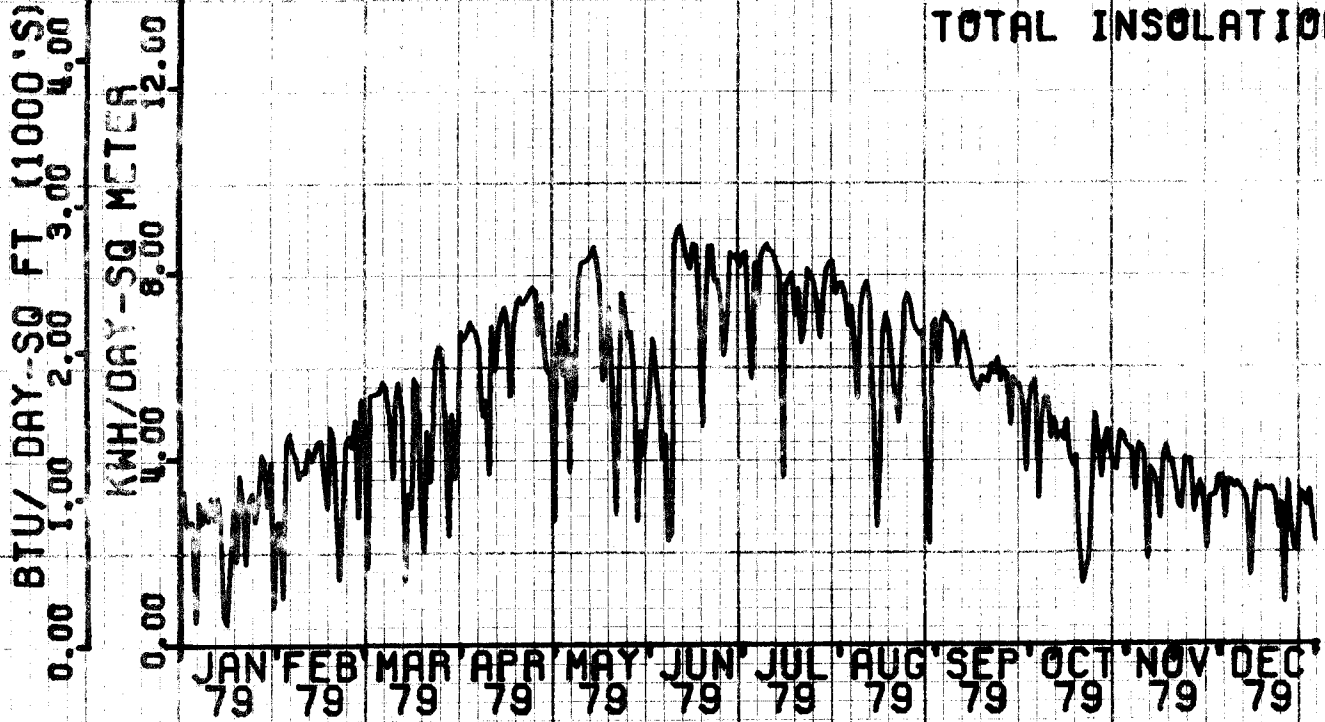
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	12.8 54.7	70.5 56.8	125.0 56.7	53.1	56.1	52.0	370.0	0.0	31	0	788.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	5.3 57.6	65.0 57.4	114.5 56.8	163.2 56.2	52.7	55.5	51.3	344.4	0.0	28	0	1189.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.3 58.1	59.3 59.4	122.7 59.4	168.2 59.3	216.5 59.0	56.2	58.6	54.9	272.7	0.0	30	0	1554.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	28.3 61.7	115.0 61.9	170.7 61.8	214.0 61.7	254.2 61.5	58.8	61.2	57.2	184.8	0.0	30	0	2055.
5/79	NUM OF HOURS AVG TEMP (F)	0.3 63.6	32.5 64.0	66.3 63.7	93.8 63.5	119.7 63.3	142.2 63.1	60.2	62.7	58.5	82.1	0.0	14	0	2073.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	64.5 68.7	122.5 68.9	167.0 68.7	212.5 68.4	262.2 68.0	65.1	67.6	63.2	27.5	0.0	20	0	2128.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	56.0 68.7	121.2 68.7	172.0 68.7	221.5 68.6	264.0 68.4	65.9	68.0	64.4	7.8	0.0	8	0	2097.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	33.0 71.6	103.0 71.7	147.2 71.6	194.5 71.5	244.0 71.2	68.4	70.7	66.7	0.0	0.0	0	0	1891.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	4.8 72.1	85.0 73.6	147.7 73.3	196.0 73.1	235.7 72.9	70.2	72.6	68.7	0.0	1.8	0	3	1802.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 66.8	17.0 70.0	56.0 69.6	80.5 69.5	106.3 69.2	64.2	68.7	64.6	45.6	0.0	19	0	1368.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	13.5 63.1	76.5 62.8	121.2 62.3	57.8	61.4	55.5	207.6	0.0	29	0	1072.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 71.1	84.5 63.0	155.2 62.1	56.7	60.9	55.0	258.2	0.0	30	0	911.

*NOTEX

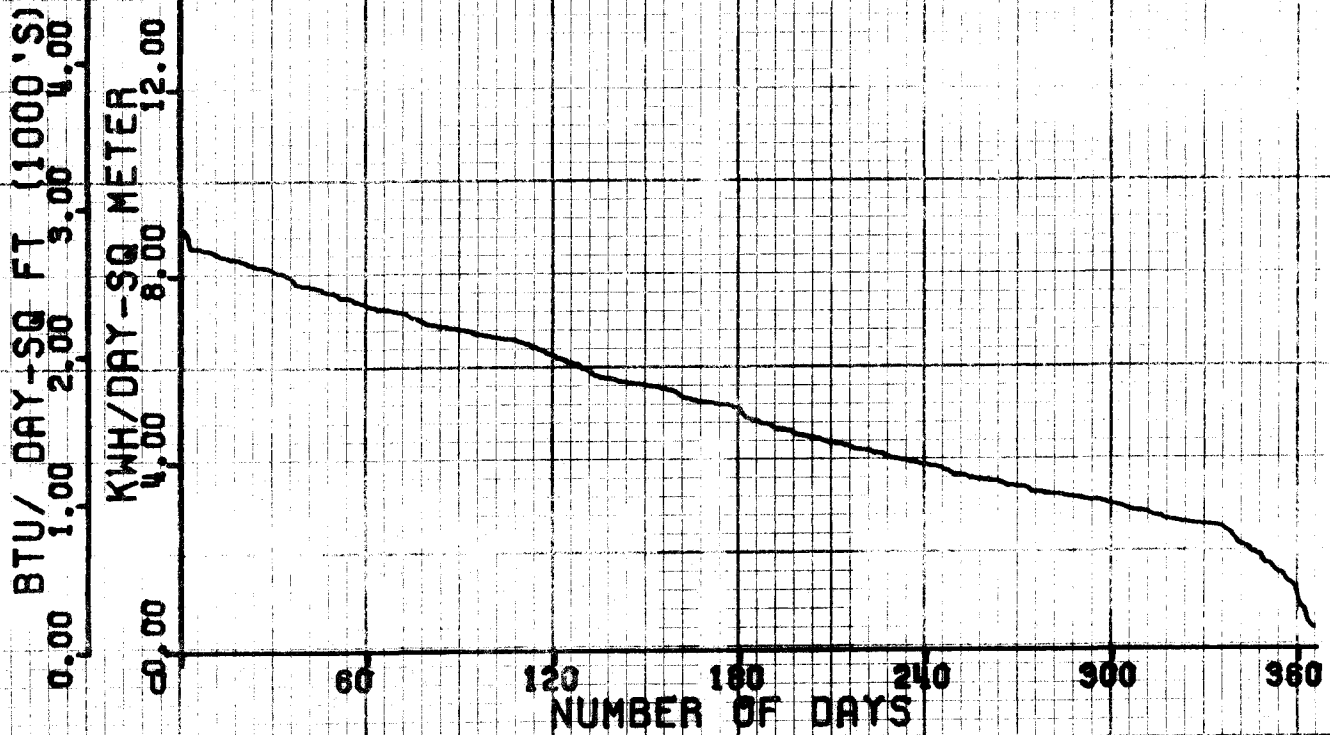
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

LAGUNA BELL, CAL
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR LAGUNA BELL, CAL

ACCOUNT/ 60950533
CHANNELS 60950791

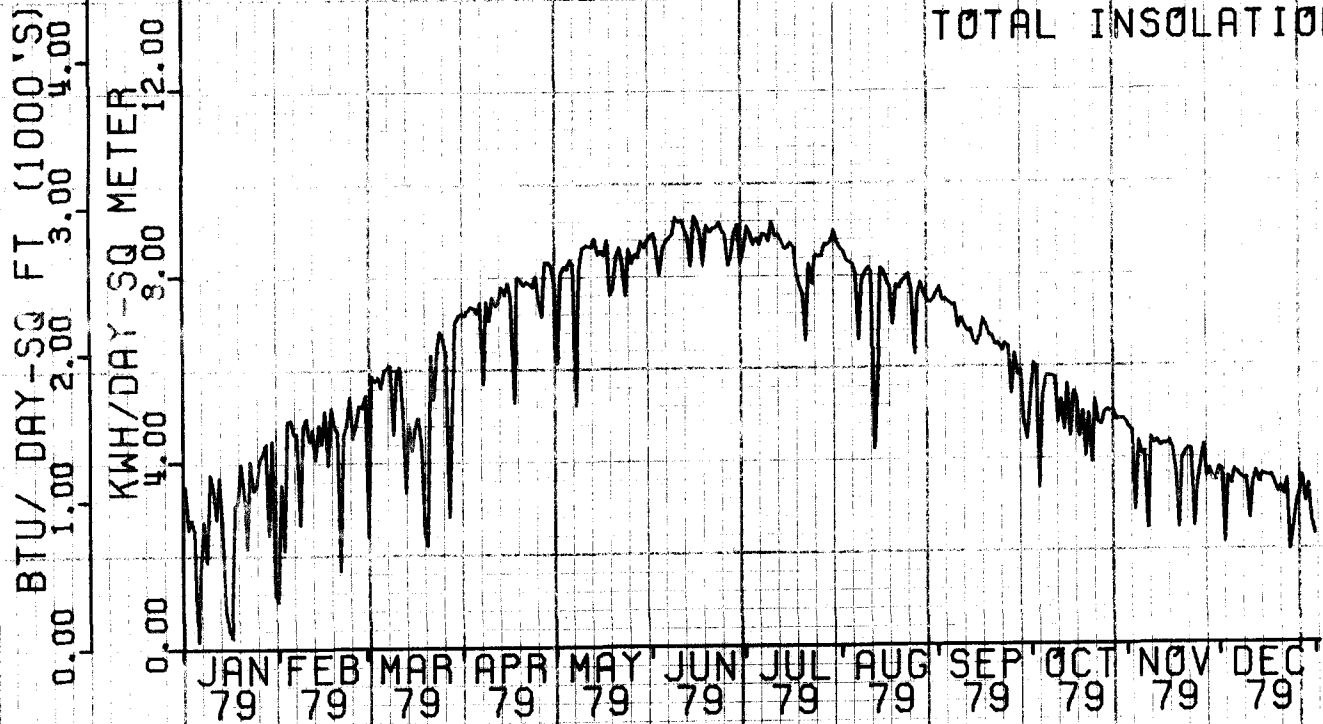
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	7.5 57.2	66.0 60.9	120.5 60.9	55.9	60.5	54.5	280.7	0.0	31	0	744.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.3 64.5	48.0 64.9	108.0 64.4	161.2 63.4	56.6	62.2	54.0	235.3	0.0	28	0	1136.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.3 62.4	29.5 69.3	91.5 68.5	147.5 67.3	196.2 66.3	60.1	65.3	57.3	166.7	0.0	27	0	1362.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	17.5 71.6	103.5 72.9	159.5 72.1	205.0 71.2	249.7 70.3	64.3	69.3	60.7	42.6	0.0	20	0	1978.
5/79	NUM OF HOURS AVG TEMP (F)	0.3 68.2	37.3 78.2	101.5 76.4	145.7 75.5	193.2 74.4	246.5 73.2	67.1	71.9	63.6	22.4	16.5	14	2	1906.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	59.3 86.6	125.5 85.1	176.0 83.6	219.0 82.4	260.0 81.2	73.1	79.3	68.2	0.0	62.7	0	10	2178.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	54.3 83.1	147.2 82.3	201.5 81.5	248.5 80.6	294.2 79.8	73.4	78.8	68.7	0.0	11.6	0	13	2341.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	16.0 84.4	104.0 83.4	154.2 82.6	199.7 82.0	246.5 81.0	74.4	79.6	70.6	0.0	29.0	0	11	1911.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	70.0 89.3	146.7 88.2	199.5 87.0	244.5 85.9	78.1	84.7	73.7	0.0	113.4	0	22	1818.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	6.0 79.5	72.0 77.0	131.7 76.3	182.7 75.5	69.1	74.5	66.5	2.0	0.0	2	0	1219.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	22.8 74.8	100.8 71.8	167.0 70.6	63.2	69.4	60.3	76.2	0.0	19	0	1050.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	76.3 69.7	149.2 68.7	60.3	67.3	57.5	124.2	0.0	22	0	873.

NOTE

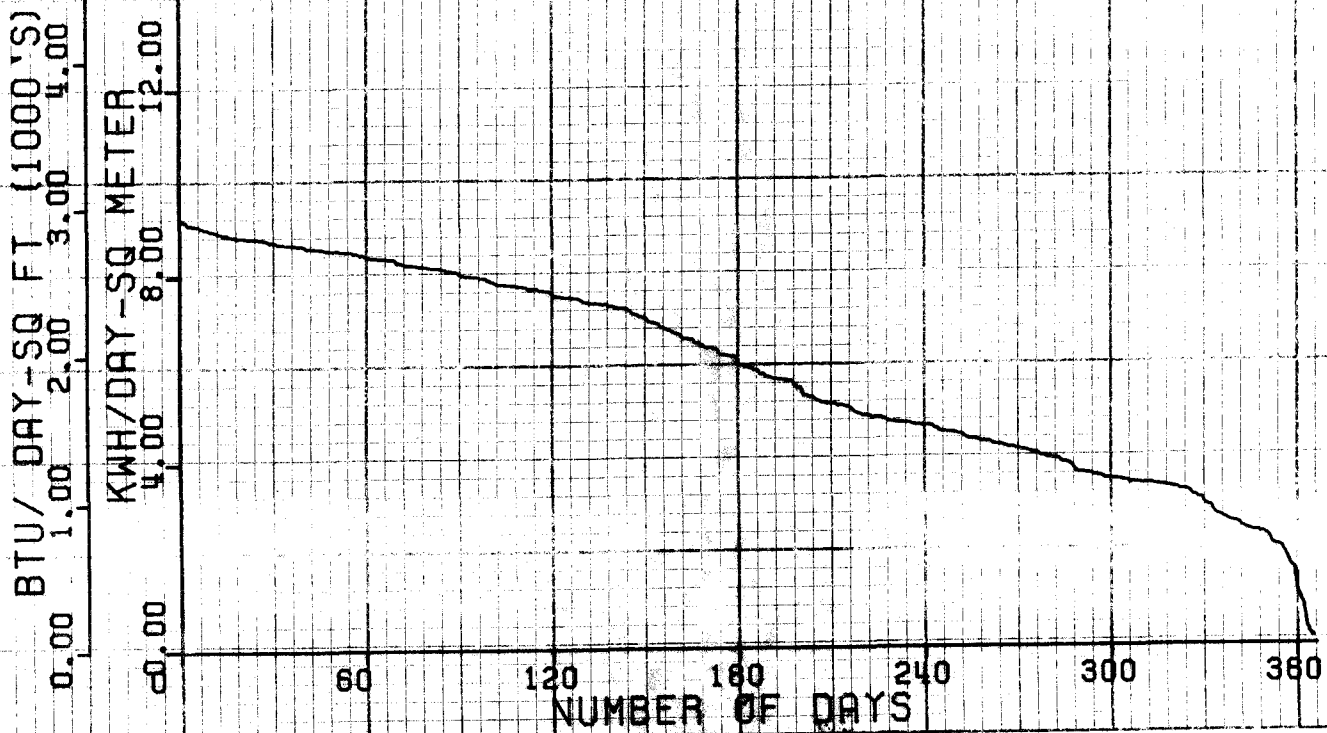
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

LANCASTER, CALIF
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR LANCASTER, CALIF

ACCOUNT/ CHANNELS 36955581
36955583

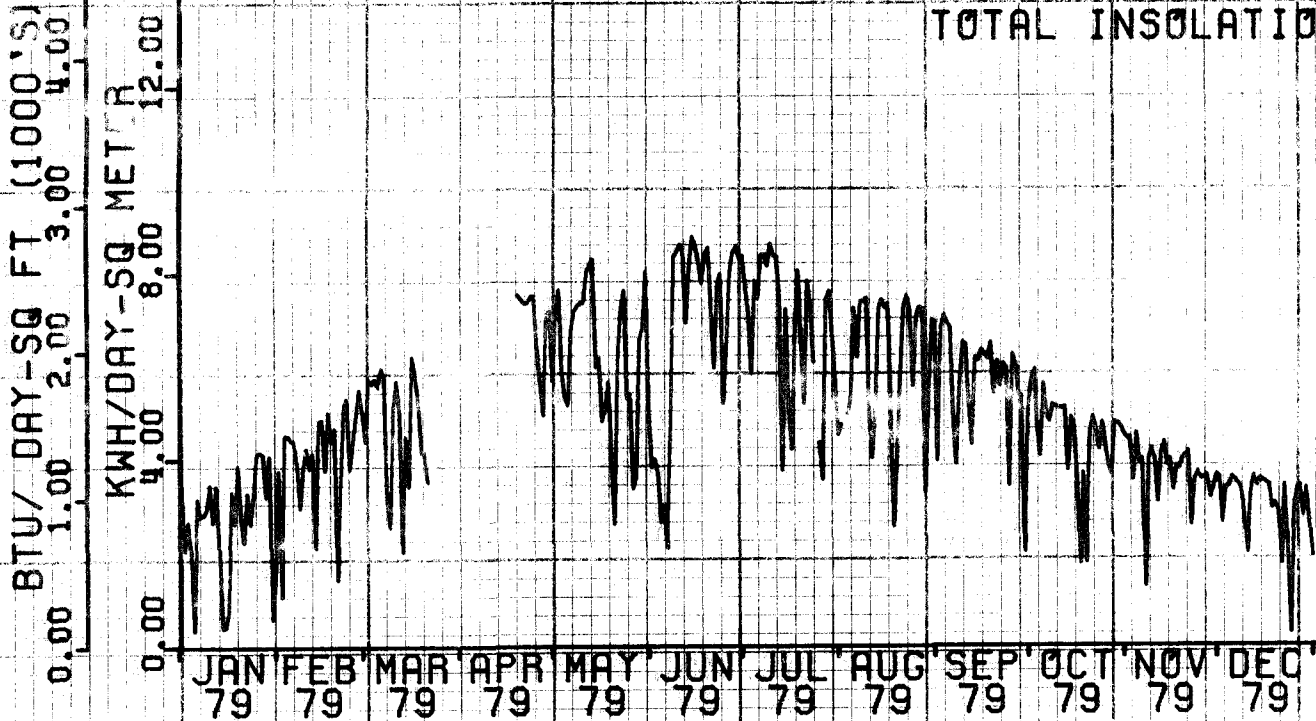
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	11.5 39.3	68.8 41.4	125.2 40.1	33.9	39.1	32.1	965.4	0.0	31	0	779.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	9.5 48.6	86.0 44.3	136.0 44.0	182.5 43.4	36.5	42.4	33.3	799.3	0.0	28	0	1352.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.5 49.2	65.3 55.8	122.2 55.5	169.7 54.3	220.5 52.7	43.6	51.0	39.2	641.1	0.0	30	0	1605.
4/79	NUM OF HOURS AVG TEMP (F)	0.3 67.0	57.5 63.4	142.5 62.5	192.5 62.0	238.2 61.1	282.5 60.1	51.0	59.0	44.8	405.2	0.0	29	0	2314.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	93.0 73.3	165.2 72.5	214.2 72.0	261.0 71.1	308.0 69.9	60.5	68.5	53.1	168.7	0.9	21	1	2541.
6/79	NUM OF HOURS AVG TEMP (F)	0.3 90.8	107.5 84.0	175.7 83.4	226.5 82.5	271.5 81.5	315.2 80.4	70.9	79.1	62.7	27.6	25.7	6	10	2729.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	100.8 88.8	172.5 88.2	226.0 87.4	274.0 86.5	320.2 85.4	75.7	84.1	67.6	9.7	98.9	2	19	2636.
8/79	NUM OF HOURS AVG TEMP (F)	0.5 88.6	60.0 86.6	140.2 84.6	198.5 83.7	251.2 82.6	297.0 81.6	72.0	80.3	64.9	5.1	40.4	3	10	2336.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	8.8 85.6	106.0 88.6	163.0 87.2	213.7 85.7	260.2 84.5	72.0	82.7	64.2	3.2	34.9	3	8	2012.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	19.0 78.5	110.8 69.7	173.0 68.5	230.2 67.3	57.0	66.2	51.3	261.7	0.0	26	0	1537.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	39.0 55.4	123.7 53.5	181.0 52.0	41.8	50.8	37.3	695.7	0.0	30	0	1168.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	1.8 52.0	93.0 50.4	161.5 48.7	37.9	47.3	33.6	841.4	0.0	31	0	971.

NOTE

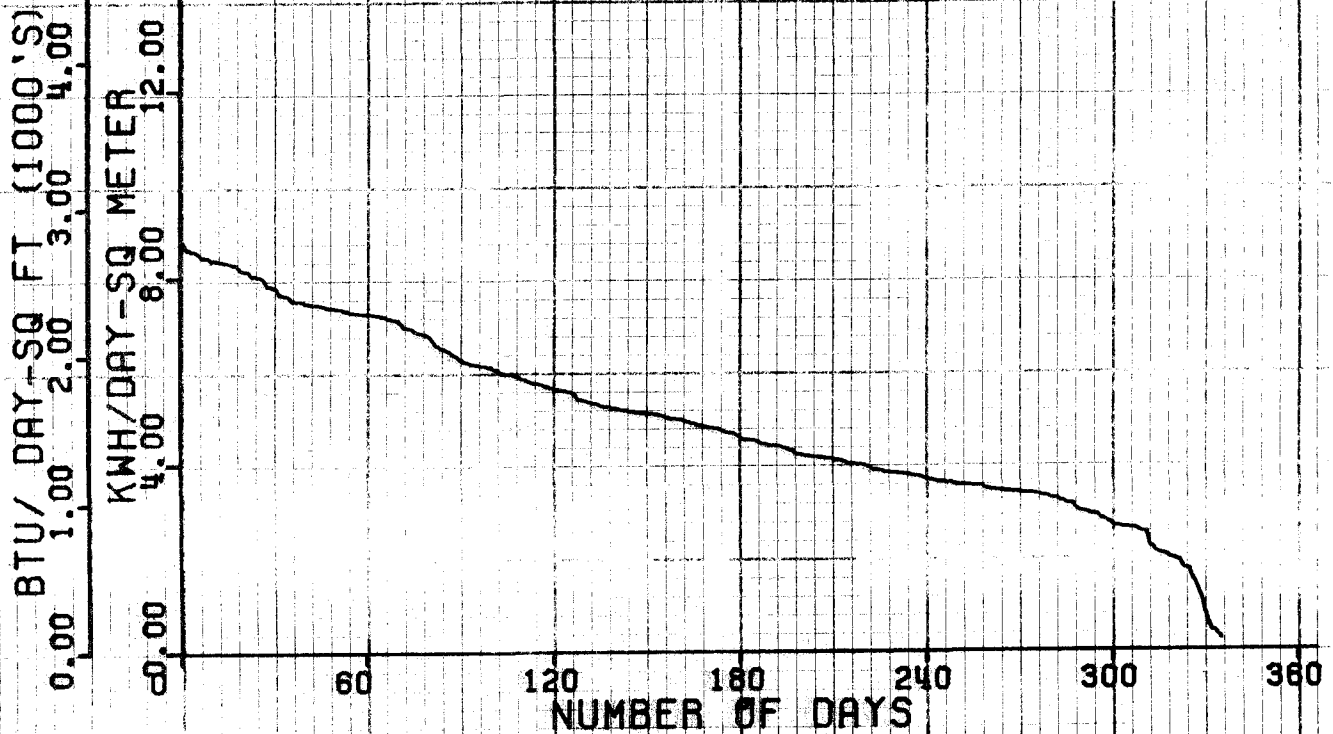
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR.
AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

MANDALAY, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR MANDALAY, CALIF.

ACCOUNT/ CHANNELS 39950163
39950322

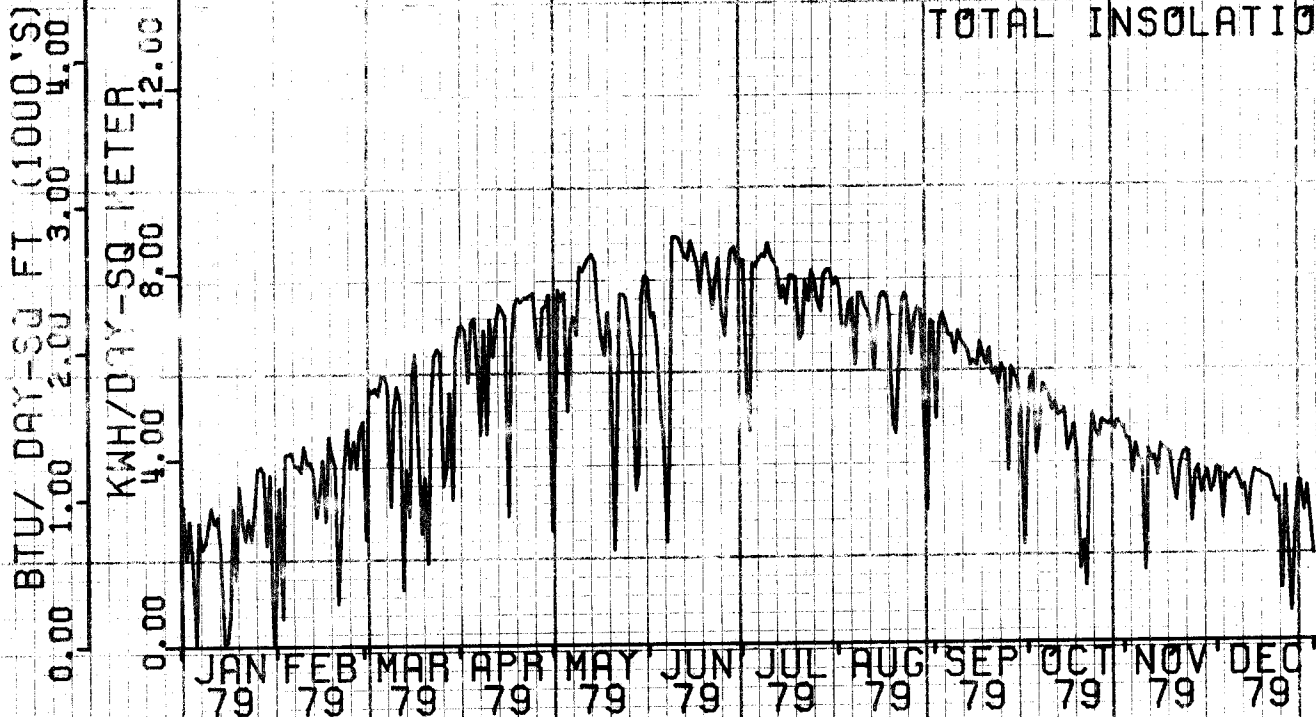
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING*THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 57.3	10.5 59.2	67.5 61.8	122.7 61.8	57.5	61.5	56.3	232.3	0.0	31	0	743.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	4.0 62.3	68.8 61.7	122.0 61.3	166.2 61.0	57.0	60.4	55.3	224.5	0.0	28	0	1229.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	24.5 64.3	75.8 63.9	106.3 63.5	141.2 63.1	59.8	62.6	57.8	163.1	0.0	30	0	1427.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	10.5 65.0	47.0 65.0	69.5 64.9	86.5 64.8	106.0 64.6	61.8	64.2	59.3	92.4	0.0	28	0	2099.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	24.5 68.2	88.3 67.1	144.5 66.8	194.2 66.6	248.0 66.3	63.6	65.9	61.9	56.6	0.0	21	0	1876.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	53.8 70.9	113.0 70.7	159.7 70.5	208.5 70.3	257.0 70.0	67.3	69.5	65.5	0.8	2.1	4	1	2094.
7/79	NUM OF HOURS AVG TEMP (F)	0.3 72.7	33.3 70.6	95.5 70.2	152.7 70.1	213.0 69.8	269.5 69.6	67.3	69.2	65.8	1.7	0.0	4	0	2060.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	3.8 73.0	86.3 73.6	144.2 73.2	192.5 73.0	243.5 72.6	69.9	72.2	68.0	0.0	0.0	0	0	1870.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	65.3 76.2	130.5 75.9	182.0 75.6	233.7 75.2	71.9	74.7	70.1	0.0	2.9	0	3	1717.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	8.5 72.6	89.5 70.8	148.2 70.6	206.5 70.2	67.0	69.8	65.4	11.3	0.0	7	0	1354.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	30.8 67.3	116.5 66.8	175.2 66.5	62.2	65.9	60.4	82.5	0.0	26	0	1119.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 70.2	80.5 67.3	151.0 66.8	61.8	66.0	60.2	106.4	0.0	25	0	883.

NOTE

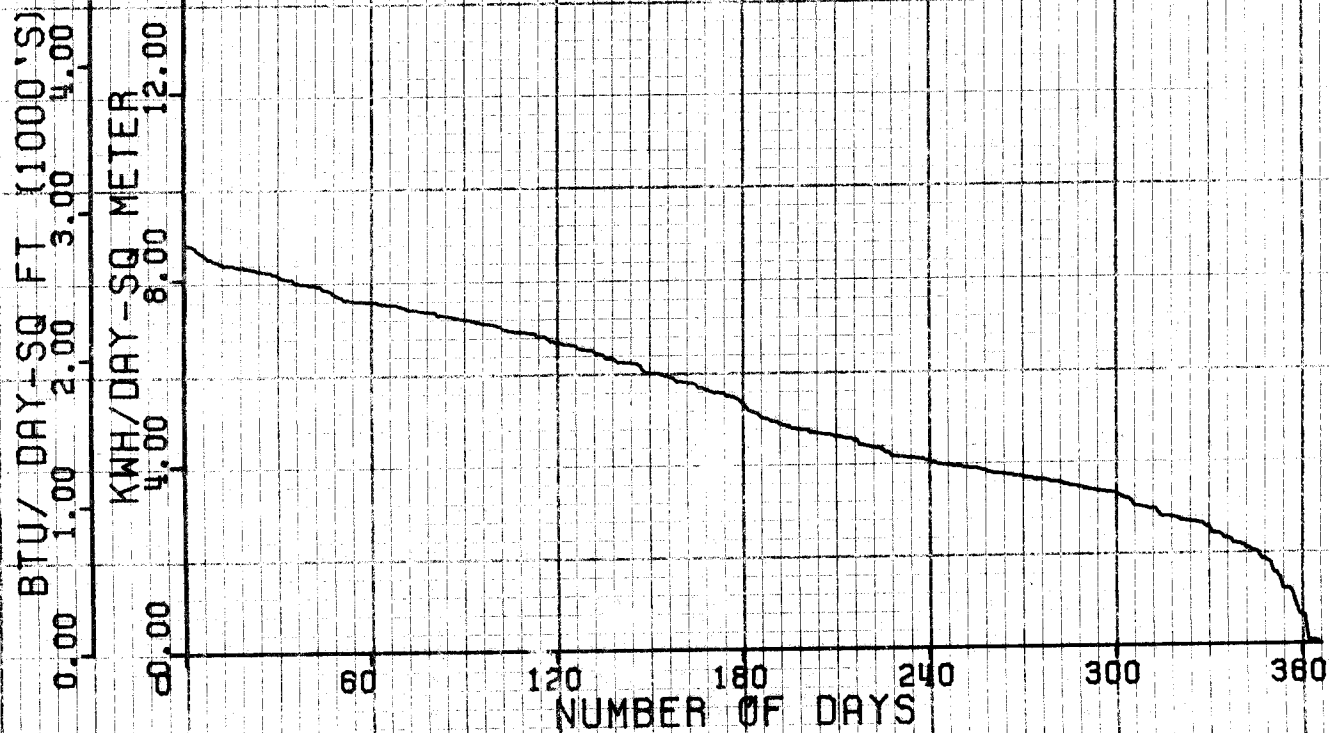
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

MOORPARK, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR MOORPARK, CALIF.

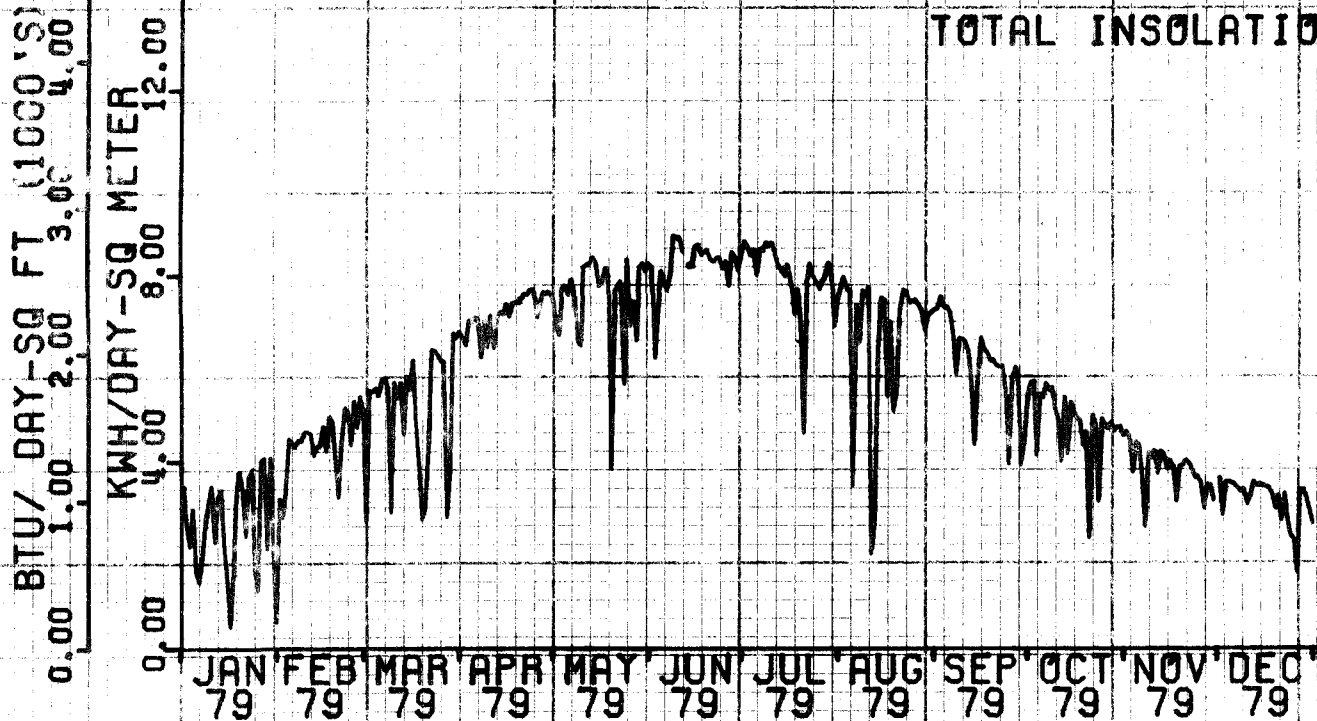
ACCOUNT/ CHANNELS 35955011
35955013

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	2.8 52.2	50.0 58.5	107.8 58.3	49.8	57.4	47.6	470.9	0.0	31	0	650.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 64.8	41.3 61.3	107.8 60.9	156.5 60.1	50.7	59.1	47.0	399.6	0.0	28	0	1096.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.0 59.9	34.3 65.7	98.3 65.2	144.5 64.2	204.2 62.9	54.2	61.7	49.9	333.3	0.0	27	0	1408.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	9.5 67.8	107.3 68.5	160.2 68.2	208.0 67.6	253.0 66.7	57.1	65.4	50.8	238.5	0.0	30	0	2008.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	33.3 75.5	114.7 72.1	166.2 71.2	213.2 70.4	265.5 69.5	60.9	68.2	55.2	154.4	4.7	26	1	2059.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	59.0 80.9	141.0 78.9	189.2 78.2	231.0 77.5	276.2 76.5	66.3	75.0	58.9	50.6	13.9	18	3	2297.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	45.8 77.8	143.5 76.9	202.5 76.3	255.0 75.7	301.5 75.1	66.8	74.1	60.3	17.9	0.0	7	0	2366.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	3.0 78.9	115.2 76.5	176.0 76.2	219.5 75.6	264.0 75.0	66.6	73.8	61.2	4.6	0.0	7	0	2049.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	63.8 85.9	143.7 84.0	193.2 83.3	241.0 82.2	70.4	80.6	63.4	7.3	24.8	4	9	1794.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.3 76.8	90.5 73.7	153.2 72.7	205.0 71.9	61.8	70.8	57.0	106.9	0.0	25	0	1354.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	19.5 71.3	113.2 69.6	177.7 68.5	57.9	67.2	53.2	227.9	0.0	24	0	1111.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 85.9	81.8 72.0	150.7 70.2	57.3	68.1	52.8	266.6	0.0	24	0	895.

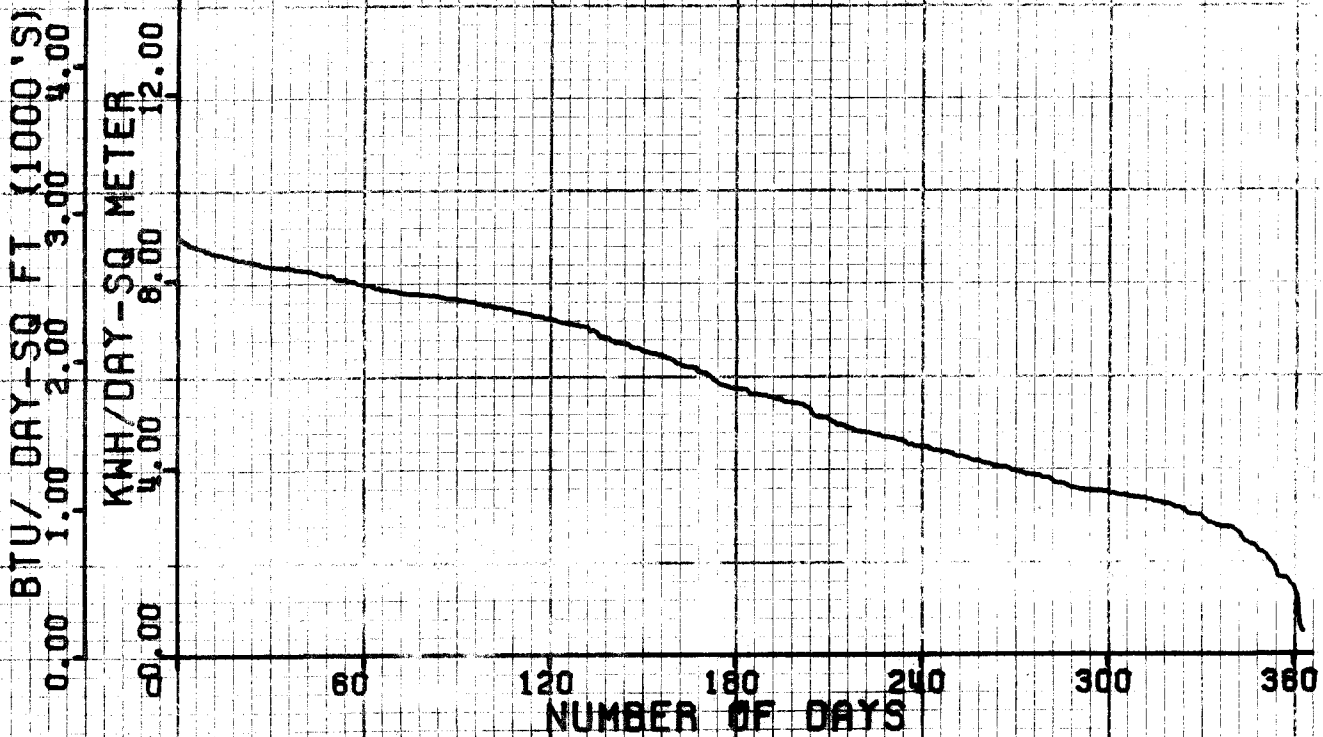
NOTE
 AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

PALM SPRINGS, CA
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



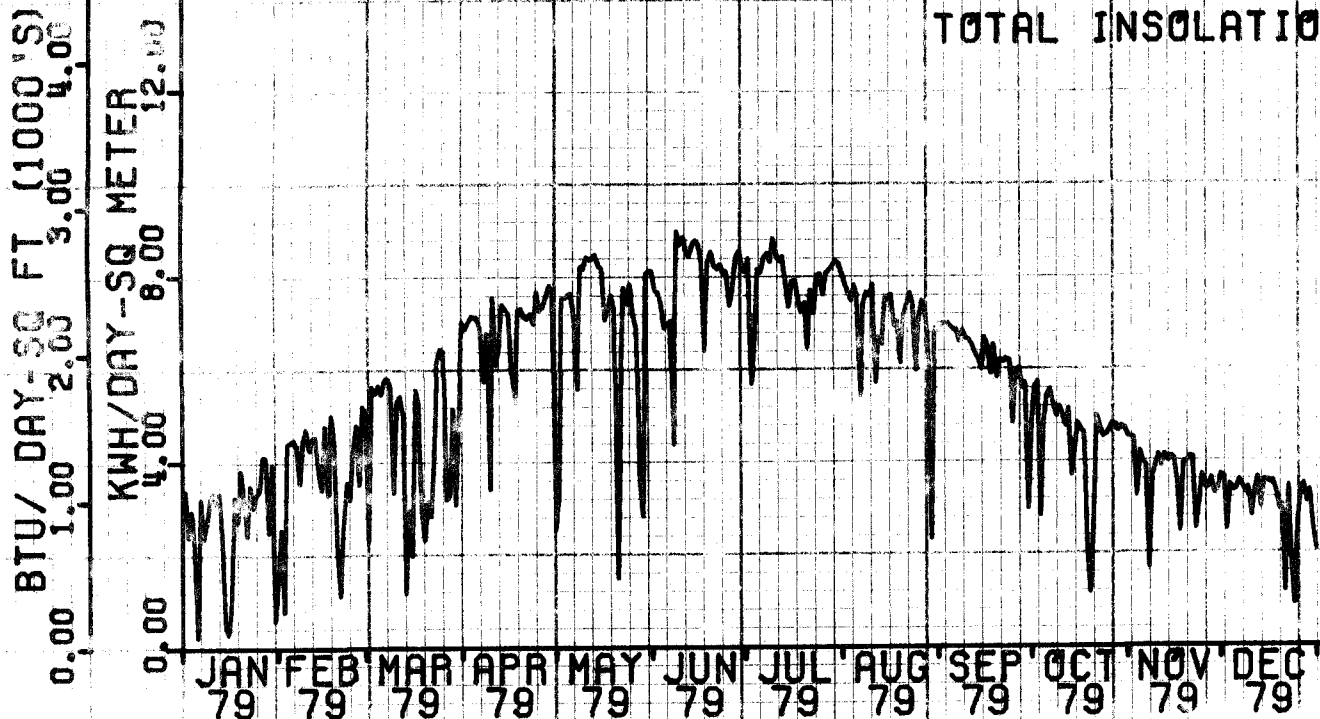
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
		NUM OF HOURS	AVG TEMP (F)	NUM OF HOURS	AVG TEMP (F)	NUM OF HOURS	AVG TEMP (F)								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	5.5 56.7	64.5 62.3	118.5 61.2	48.5	59.0	45.1	510.1	0.0	31	0	742.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	1.3 74.7	76.5 72.5	137.5 71.1	188.2 69.6	56.3	67.9	49.9	235.5	0.0	27	0	1350.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 69.5	58.5 79.3	121.5 78.4	164.2 77.5	221.2 75.3	62.5	73.5	55.8	118.9	0.0	18	0	1581.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	20.3 89.4	127.5 87.4	190.2 86.7	238.5 85.8	284.0 84.7	72.5	83.3	63.6	0.2	24.4	1	8	2244.
5/79	NUM OF HOURS AVG TEMP (F)	0.3 83.5	63.0 94.1	143.0 92.8	193.7 92.1	243.2 91.2	295.5 90.0	78.5	88.4	69.8	3.0	148.8	2	23	2338.
6/79	NUM OF HOURS AVG TEMP (F)	0.8 111.5	75.5 105.1	157.5 104.5	213.2 103.9	259.7 103.0	307.0 101.9	89.0	100.1	78.9	0.0	393.0	0	28	2560.
7/79	NUM OF HOURS AVG TEMP (F)	0.3 100.0	65.8 108.3	155.0 107.6	211.7 106.8	262.0 106.0	310.5 104.6	93.2	103.1	83.7	0.0	562.9	0	31	2483.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	26.8 105.5	121.2 103.7	174.7 102.9	221.0 101.9	266.0 100.6	88.8	99.0	81.0	0.0	427.8	0	31	2079.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	6.0 107.8	87.3 106.9	152.0 105.8	198.0 104.9	246.0 103.6	90.1	102.0	81.7	0.0	438.1	0	29	1871.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	12.5 101.3	102.0 93.2	166.0 91.8	225.5 90.2	76.1	88.4	68.7	3.7	97.4	1	18	1478.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	33.5 78.2	124.5 76.0	184.7 74.5	60.1	72.7	53.4	142.5	0.0	28	0	1172.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	94.8 73.4	162.2 71.8	56.3	69.5	50.5	277.2	0.0	29	0	953.

NOTE

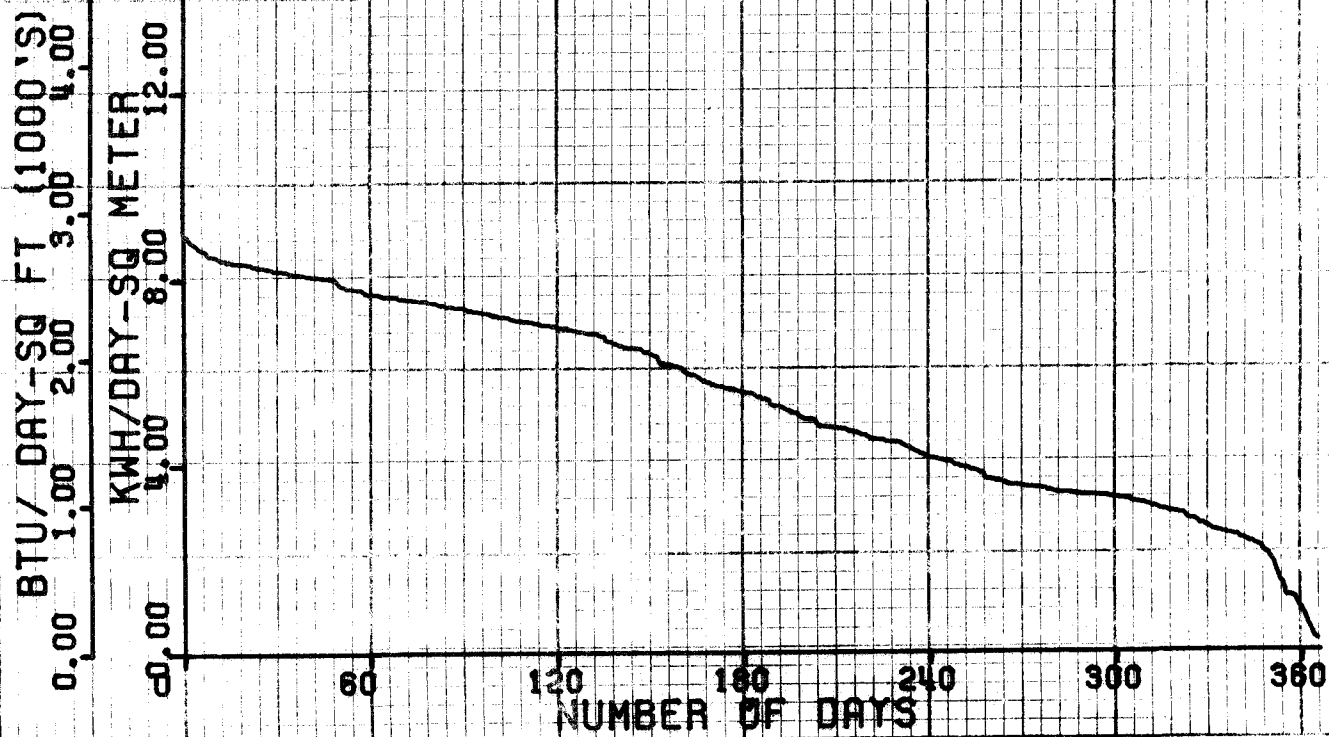
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

PARDEE, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR PARDEE, CALIF.

ACCOUNT/ CHANNELS 59956001
59956003

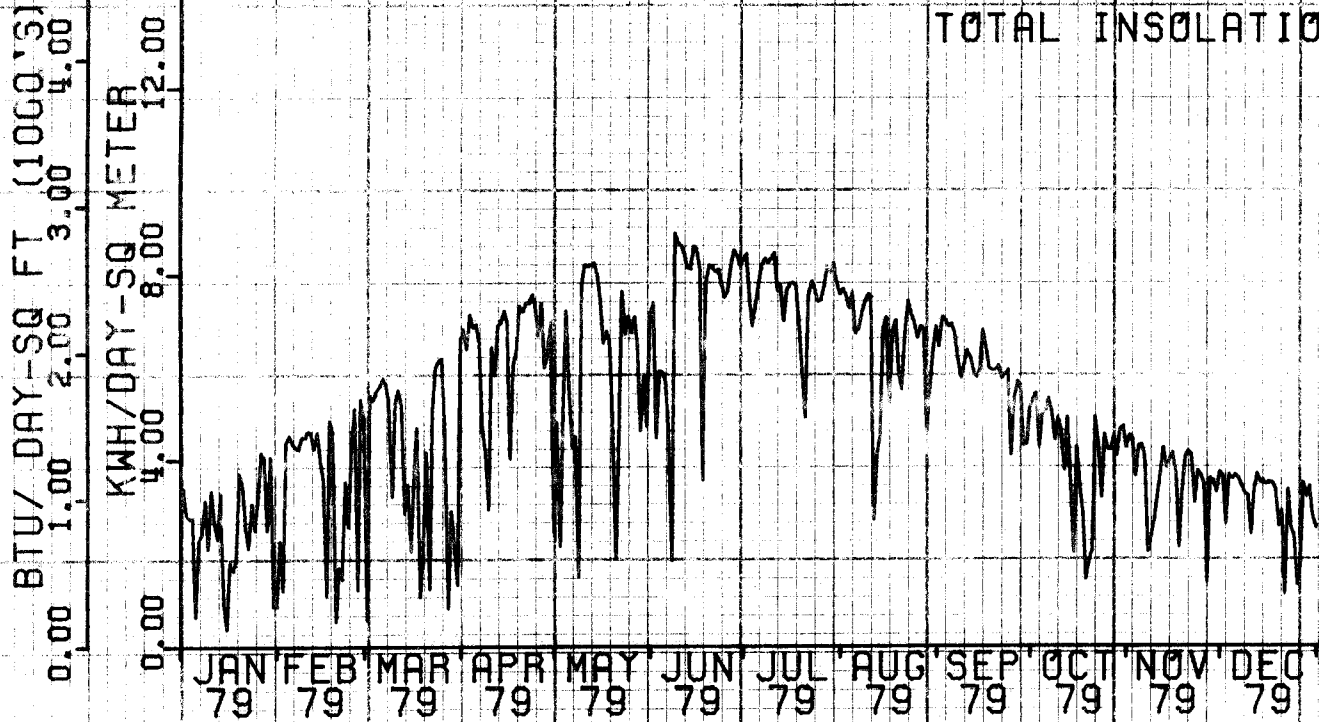
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	7.0 54.4	68.5 57.1	126.0 56.0	46.3	54.6	43.6	559.6	0.0	30	0	763.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.8 64.0	55.0 64.4	110.0 62.9	156.5 61.0	48.8	58.9	44.2	422.3	0.0	26	0	1140.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.0 60.2	40.5 69.3	90.0 68.2	135.5 66.7	189.0 64.7	53.8	62.3	49.3	337.7	0.0	29	0	1340.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	15.3 72.8	115.7 72.2	170.0 71.2	217.7 69.9	263.0 68.6	58.3	67.0	51.6	201.2	0.0	30	0	2081.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	41.5 79.1	125.7 77.5	176.7 76.5	225.5 75.1	272.5 73.8	63.2	72.2	56.0	90.2	0.0	22	0	2144.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	55.3 90.4	147.2 87.4	203.5 86.2	253.7 84.8	298.7 83.3	70.8	81.4	60.9	8.8	35.5	4	8	2460.
7/79	NUM OF HOURS AVG TEMP (F)	0.3 66.8	45.5 92.7	147.7 91.3	209.2 90.2	262.2 88.9	309.2 87.4	75.2	85.8	65.3	3.9	66.7	2	18	2430.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	8.0 92.4	120.7 88.6	183.7 87.5	233.0 86.4	281.2 85.1	73.3	83.5	65.2	0.0	33.8	0	14	2148.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	83.3 97.3	151.7 95.1	207.7 92.9	254.0 91.0	76.1	88.9	66.9	0.0	88.0	0	17	1904.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	6.3 86.2	90.3 79.4	152.7 77.8	207.0 76.1	63.9	74.3	58.0	65.8	0.0	21	0	1368.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	31.0 70.4	109.5 68.5	174.7 66.9	54.6	65.1	49.5	311.3	0.0	30	0	1103.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 61.8	84.5 69.3	151.0 66.8	51.8	64.2	46.6	412.2	0.0	30	0	902.

NOTE

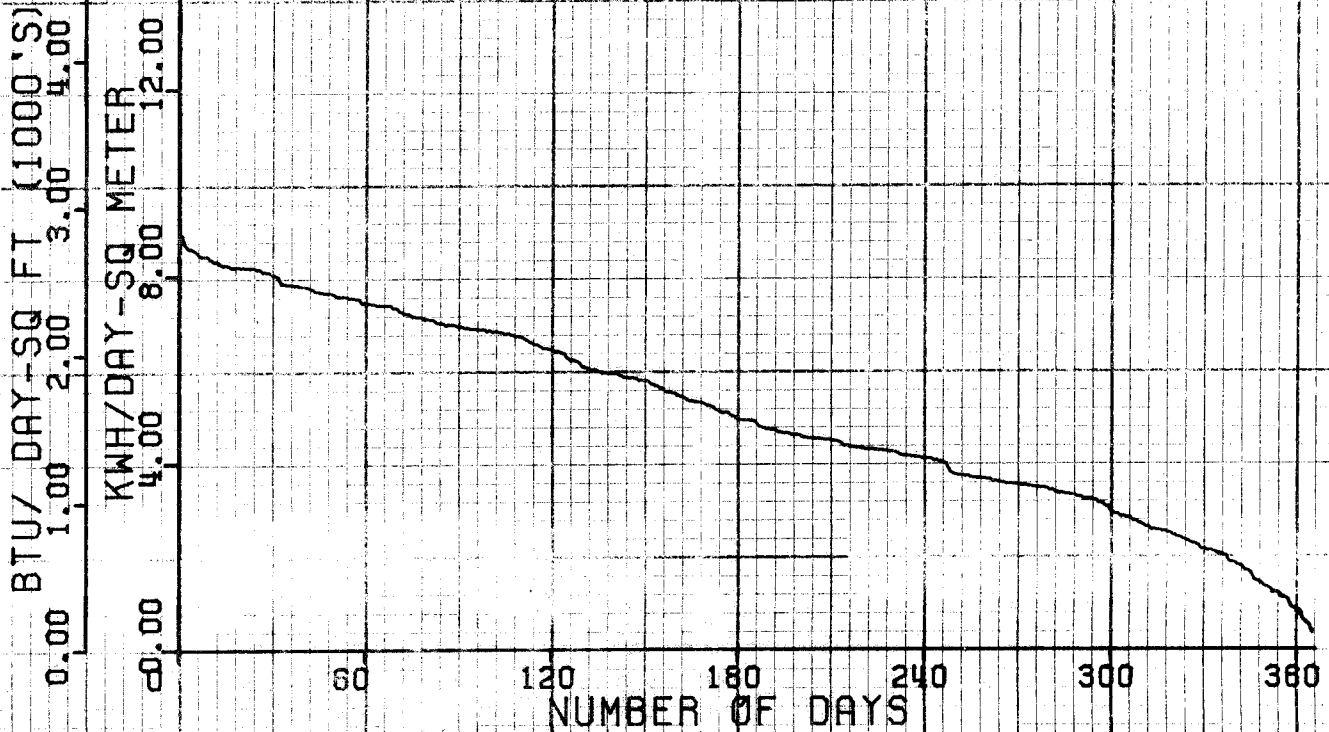
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

RIALTO, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR RIALTO, CALIF.

ACCOUNT/
CHANNELS

30955021
30955023

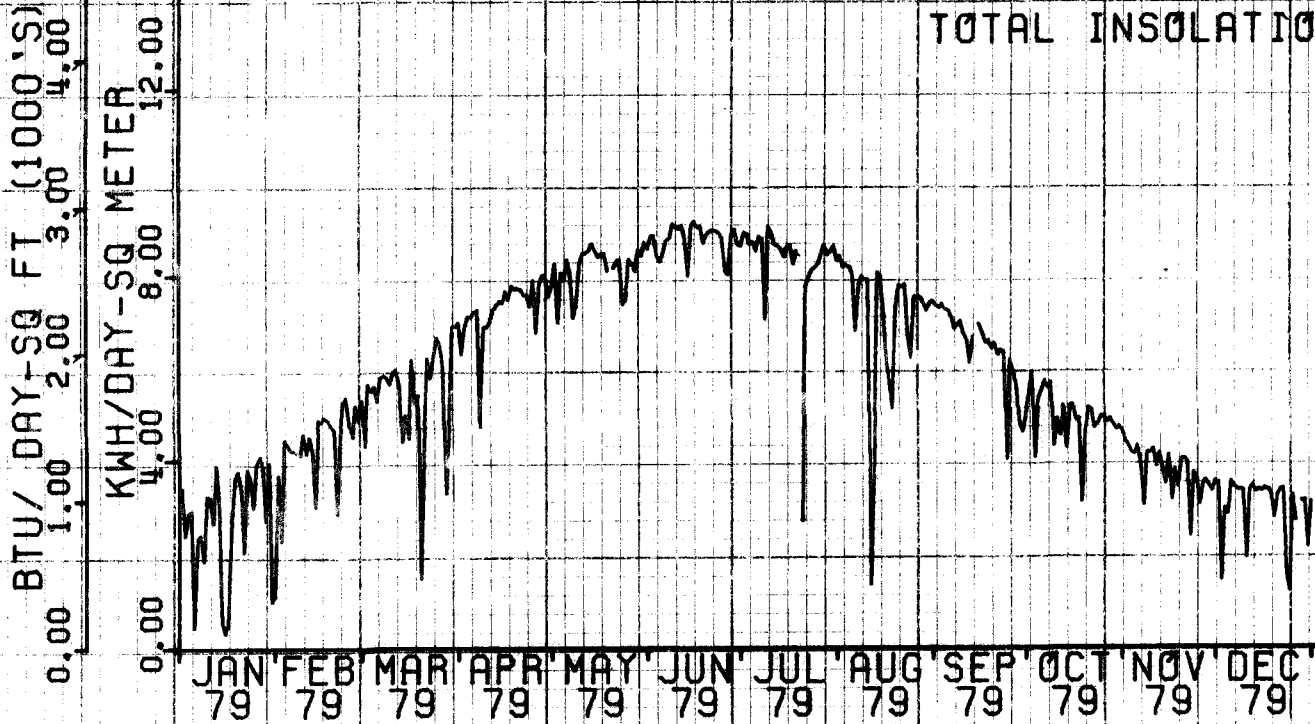
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	9.0 50.8	54.0 54.8	112.2 54.6	47.7	53.4	45.9	536.5	0.0	31	0	706.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.3 62.0	54.8 63.9	103.3 62.3	146.2 60.8	50.8	59.0	47.4	397.6	0.0	28	0	1066.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.0 56.3	26.3 66.7	80.3 66.7	121.2 65.2	168.0 63.7	53.9	61.3	50.3	339.8	0.0	28	0	1192.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	6.3 69.8	97.0 71.3	153.2 70.6	202.0 69.6	247.7 68.4	59.1	66.8	53.2	174.6	0.0	27	0	1942.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	21.0 80.6	96.0 76.6	145.2 75.6	188.0 74.5	234.5 73.1	62.4	71.1	56.6	128.6	3.7	22	2	1815.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	52.5 91.2	133.5 88.3	184.7 87.1	226.5 86.0	273.0 84.5	72.5	82.6	64.1	17.7	79.5	8	11	2254.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	38.0 88.3	145.0 88.2	205.5 87.3	251.2 86.5	298.7 85.6	75.1	84.3	66.9	1.8	65.7	2	17	2360.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	5.3 90.7	107.8 85.6	165.5 84.6	213.2 83.7	262.7 82.7	73.0	81.3	66.8	0.0	32.7	0	12	1986.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	69.8 93.5	145.5 91.9	199.5 90.7	247.2 89.4	77.8	87.9	70.8	0.0	120.9	0	21	1828.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.8 83.8	69.3 77.3	134.7 75.5	188.2 74.4	64.2	72.7	59.8	77.0	1.7	22	2	1232.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	27.5 69.0	107.3 67.0	168.0 65.9	57.1	64.5	53.7	237.5	0.0	30	0	1062.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	79.8 69.3	153.5 67.1	56.7	65.1	53.2	273.9	0.0	27	0	902.

NOTE
 AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

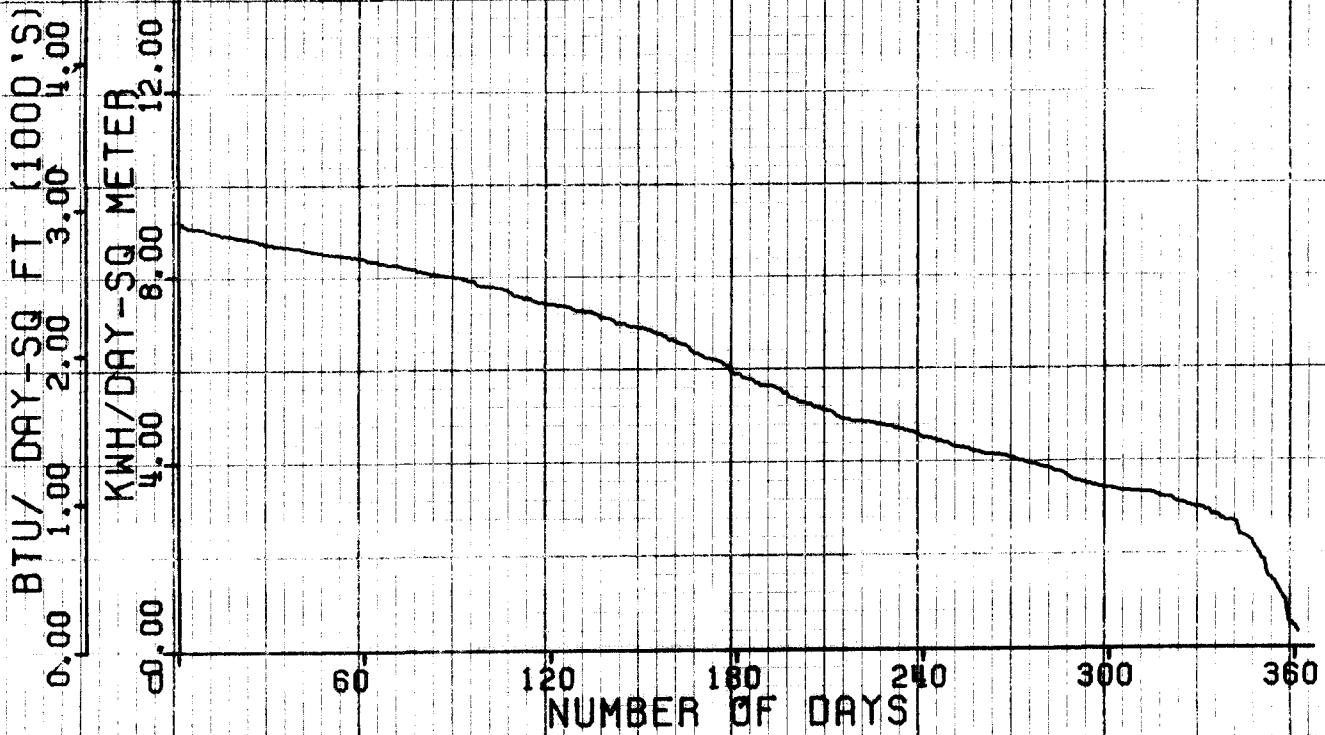
ANNUAL DISTRIBUTION

RIDGECREST, CAL.

TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR RIDGECREST, CAL.

ACCOUNT/ 86955381
CHANNELS 86955383

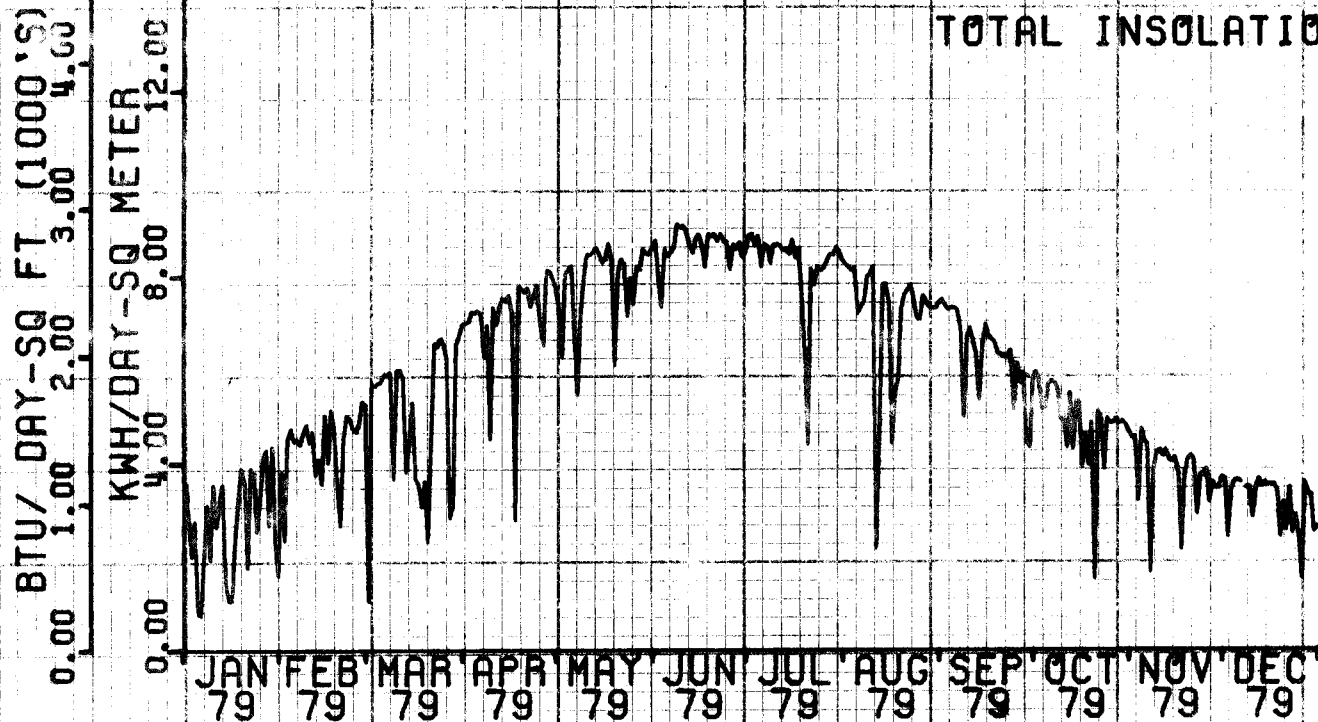
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ FT
		350	300	250	200	150	100								
		NUM OF HOURS	AVG TEMP (F)	NUM OF HOURS	AVG TEMP (F)	NUM OF HOURS	AVG TEMP (F)								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	7.5 50.3	71.3 53.4	126.0 52.5	41.7	50.6	38.7	722.4	0.0	31	0	769.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 71.4	4.8 63.6	72.0 59.9	136.7 59.1	185.5 58.0	47.6	56.7	42.7	486.1	0.0	28	0	1344.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 55.2	61.0 68.5	129.0 68.5	185.5 67.5	234.2 66.4	55.4	64.7	49.6	290.2	0.0	29	0	1674.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	37.5 78.3	130.2 76.9	188.7 76.1	236.0 75.4	282.2 74.3	65.2	73.4	58.3	66.0	0.0	14	0	2270.
5/79	NUM OF HOURS AVG TEMP (F)	0.5 79.4	84.0 88.2	158.7 87.7	214.0 87.0	263.7 85.9	312.2 84.7	75.5	83.6	67.8	17.5	100.5	4	18	2539.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	104.3 97.3	172.5 96.9	226.5 96.4	273.7 95.6	320.0 94.6	85.2	93.4	76.9	0.0	319.0	0	28	2729.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	87.0 103.5	159.7 102.9	212.5 102.2	262.2 101.2	307.7 100.0	90.5	98.4	82.7	0.0	466.2	0	30	2575.
8/79	NUM OF HOURS AVG TEMP (F)	0.5 100.3	45.3 101.5	127.0 99.5	185.0 98.5	235.5 97.5	282.5 96.3	86.4	95.0	79.6	0.0	353.8	0	31	2197.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.3 98.3	96.3 100.8	160.7 99.7	213.0 98.3	258.2 97.1	85.6	95.7	78.2	0.0	274.7	0	26	1973.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	13.5 93.2	102.0 84.4	171.5 83.2	229.0 82.0	70.8	80.7	64.7	42.3	47.4	7	10	1502.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 64.9	26.5 69.3	118.0 67.0	184.2 65.7	52.2	64.1	46.3	371.8	0.0	29	0	1139.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 63.2	80.8 63.8	147.5 62.0	47.5	60.2	42.2	507.6	0.0	29	0	880.

NOTE

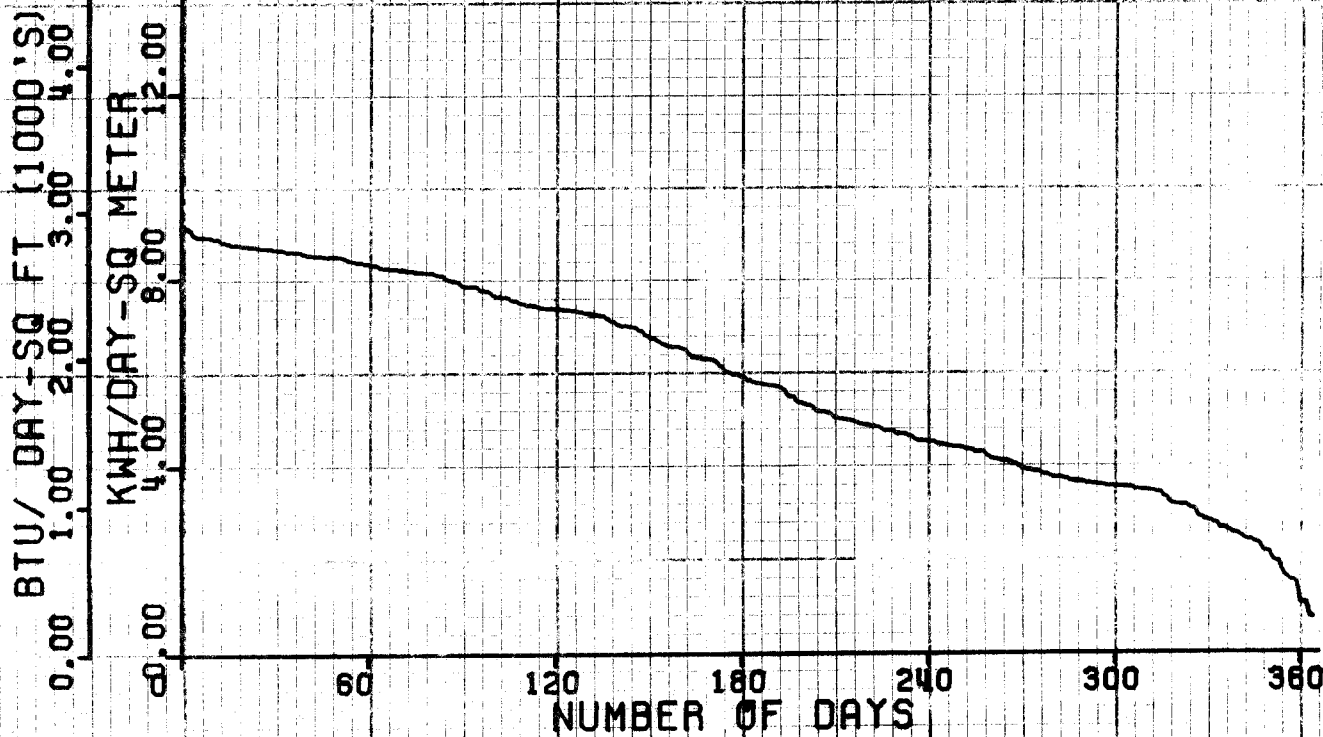
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

VICTORVILLE, CAL
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR VICTORVILLE, CAL

ACCOUNT/ 73955101
CHANNELS 73955103

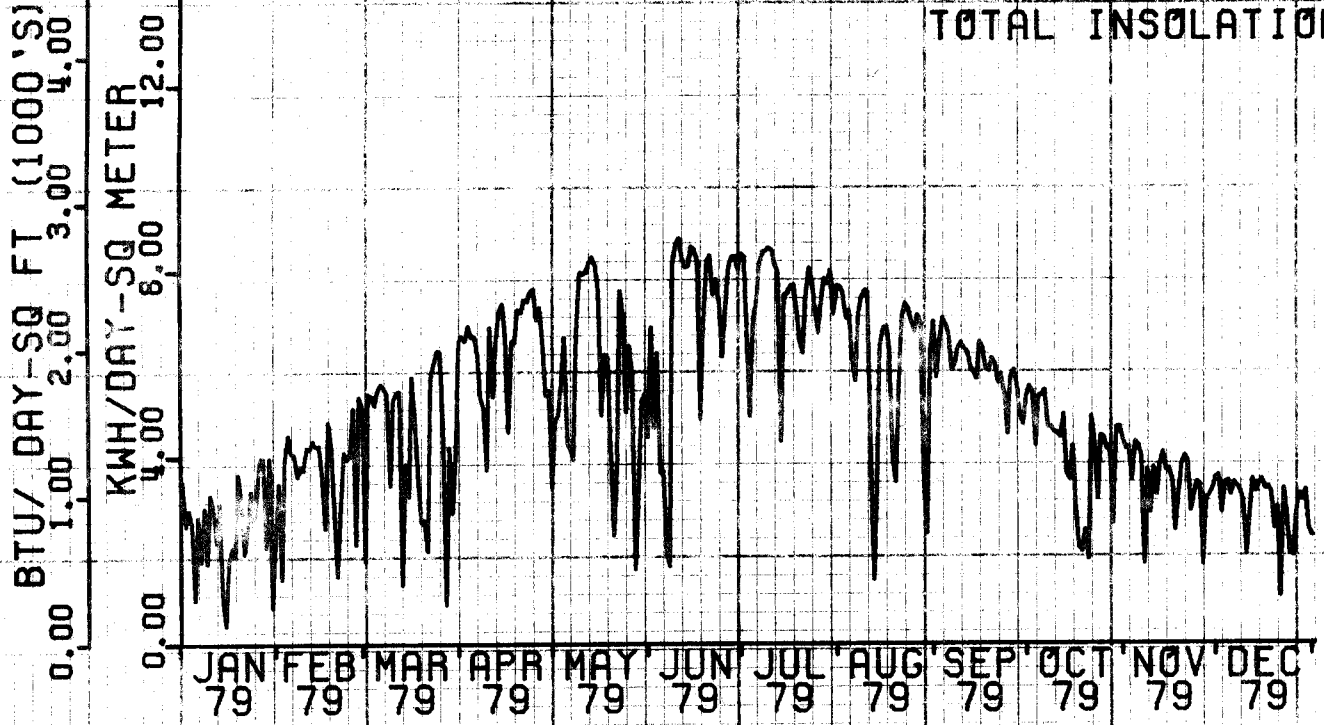
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	10.0 55.7	69.5 57.8	123.5 57.1	48.5	55.9	46.0	512.0	0.0	31	0	778.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	5.5 63.1	75.5 62.8	134.5 62.1	185.7 61.1	51.6	60.0	47.1	373.9	0.0	28	0	1344.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.5 61.8	54.8 68.3	114.2 67.4	162.7 66.7	214.2 65.4	56.0	63.3	51.9	270.2	0.0	30	0	1528.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	38.8 75.7	127.7 73.7	185.7 73.0	231.7 72.2	273.7 71.3	62.9	70.1	57.0	89.5	0.0	20	0	2224.
5/79	NUM OF HOURS AVG TEMP (F)	1.0 82.2	82.0 83.5	153.2 81.6	211.5 80.7	259.0 79.9	307.0 78.9	70.1	77.8	63.0	32.6	10.5	7	6	2466.
6/79	NUM OF HOURS AVG TEMP (F)	1.3 94.7	98.3 91.9	169.7 91.1	224.7 90.5	270.0 89.5	315.2 88.4	78.5	87.0	69.8	0.4	136.7	1	22	2696.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	91.3 96.5	163.7 95.9	218.7 95.1	268.5 94.1	316.2 92.8	82.7	91.4	74.3	0.0	251.1	0	26	2575.
8/79	NUM OF HOURS AVG TEMP (F)	0.3 101.3	49.8 96.6	130.2 94.8	186.5 93.5	235.0 92.4	281.2 91.1	81.0	89.6	74.1	0.0	187.0	0	29	2213.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	7.3 95.7	101.0 97.4	161.5 96.2	210.5 94.8	254.2 93.5	81.9	92.0	74.6	0.0	206.9	0	30	1970.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	18.5 90.7	108.8 82.7	171.7 81.1	225.2 79.9	69.2	78.8	63.5	32.9	21.7	7	8	1498.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 70.9	33.5 66.7	119.0 65.2	184.2 64.2	53.5	62.6	49.0	333.0	0.0	29	0	1157.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.8 62.6	92.3 63.5	162.7 62.3	50.0	60.3	45.6	450.5	0.0	30	0	945.

NOTE

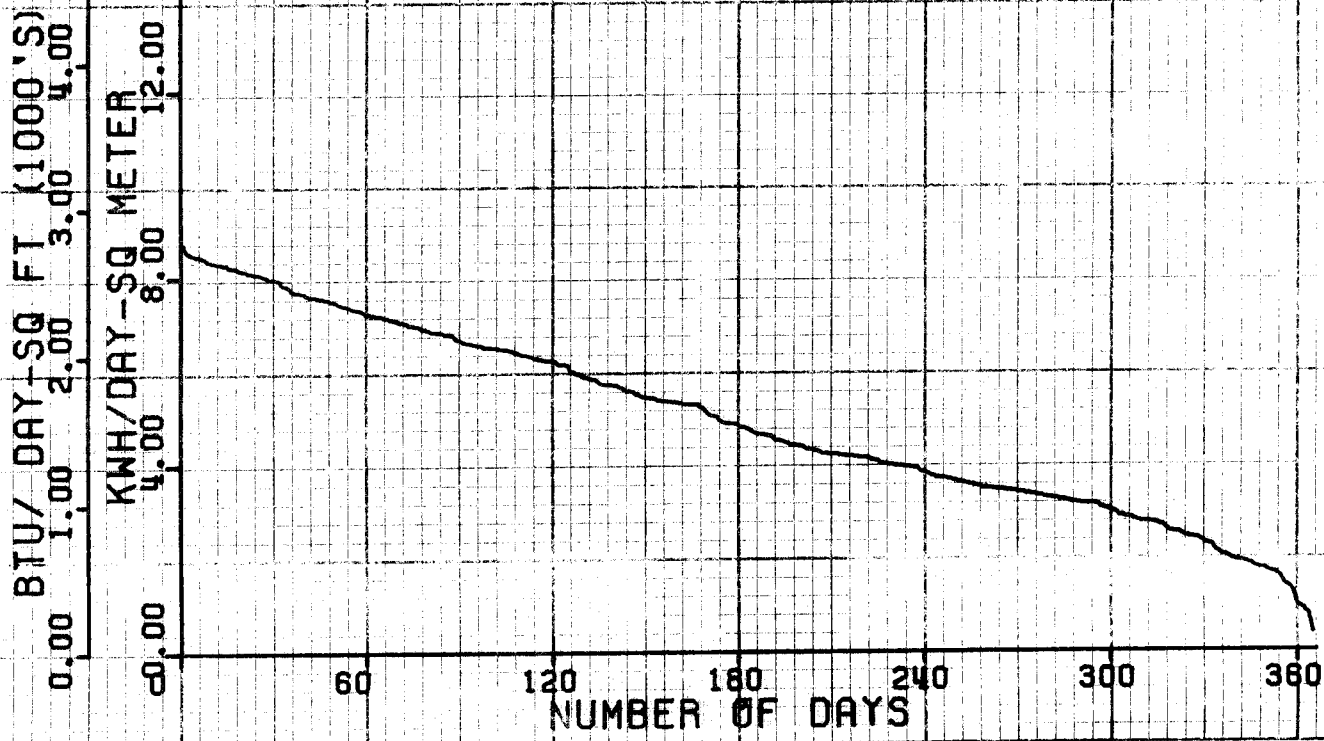
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

VILLA PARK, CAL.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR VILLA PARK, CAL.

ACCOUNT/
CHANNELS 29955041
29955043

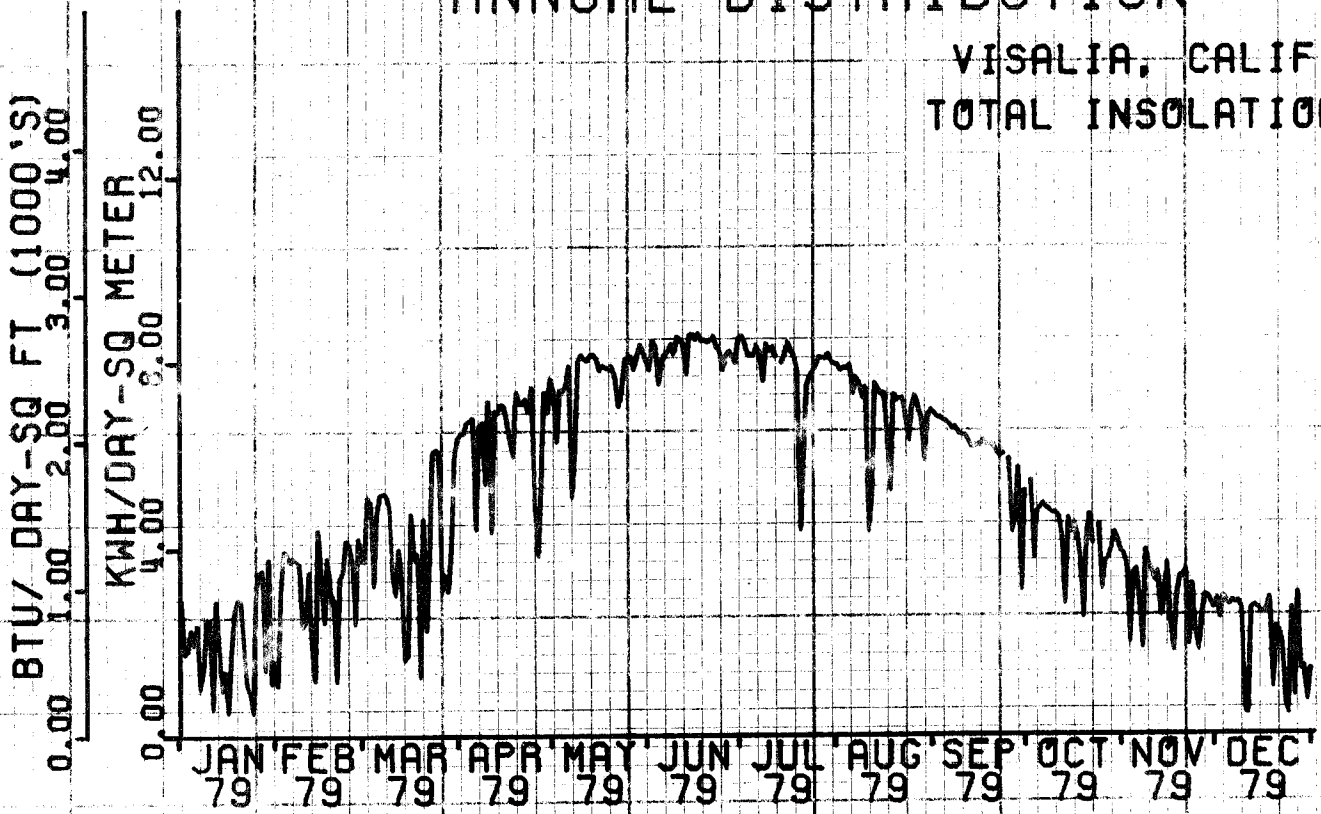
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	4.3 56.9	56.0 58.3	110.5 58.3	51.3	57.4	49.3	424.6	0.0	31	0	702.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.0 61.1	48.8 62.7	103.0 61.7	155.0 60.9	52.2	59.4	48.8	345.1	0.0	27	0	1124.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	1.8 61.2	31.5 65.8	88.8 66.1	135.2 65.0	183.7 63.7	55.6	62.0	52.3	301.0	0.0	28	0	1304.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	10.3 67.0	96.3 69.4	156.7 68.5	202.2 67.8	249.2 66.9	59.5	65.7	55.0	165.0	0.0	29	0	1945.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	24.3 77.4	81.3 74.0	120.7 72.9	166.5 71.4	230.7 69.9	62.6	68.4	58.7	113.9	7.7	25	2	1716.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	51.8 82.1	119.5 81.2	170.0 80.0	214.7 78.9	257.5 77.9	69.0	76.0	63.4	22.4	35.4	13	6	2135.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	47.0 78.9	139.2 78.3	197.0 77.5	246.2 76.9	289.7 76.2	69.4	75.3	64.4	5.5	0.0	4	0	2290.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	13.5 79.9	96.0 79.4	143.5 78.9	193.2 78.2	244.0 77.3	70.3	76.2	66.2	0.0	2.5	0	3	1836.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	71.0 86.2	147.0 84.8	202.7 83.8	248.0 82.9	74.0	82.0	68.7	0.0	45.9	0	13	1819.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	3.0 80.2	73.8 74.7	129.0 73.6	182.2 72.6	64.4	71.1	61.0	53.9	0.0	20	0	1234.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	19.0 69.9	100.8 68.9	163.7 67.9	58.5	66.7	54.6	200.7	0.0	28	0	1033.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	76.8 69.9	145.0 68.6	57.8	66.9	54.2	243.3	0.0	27	0	864.

NOTE

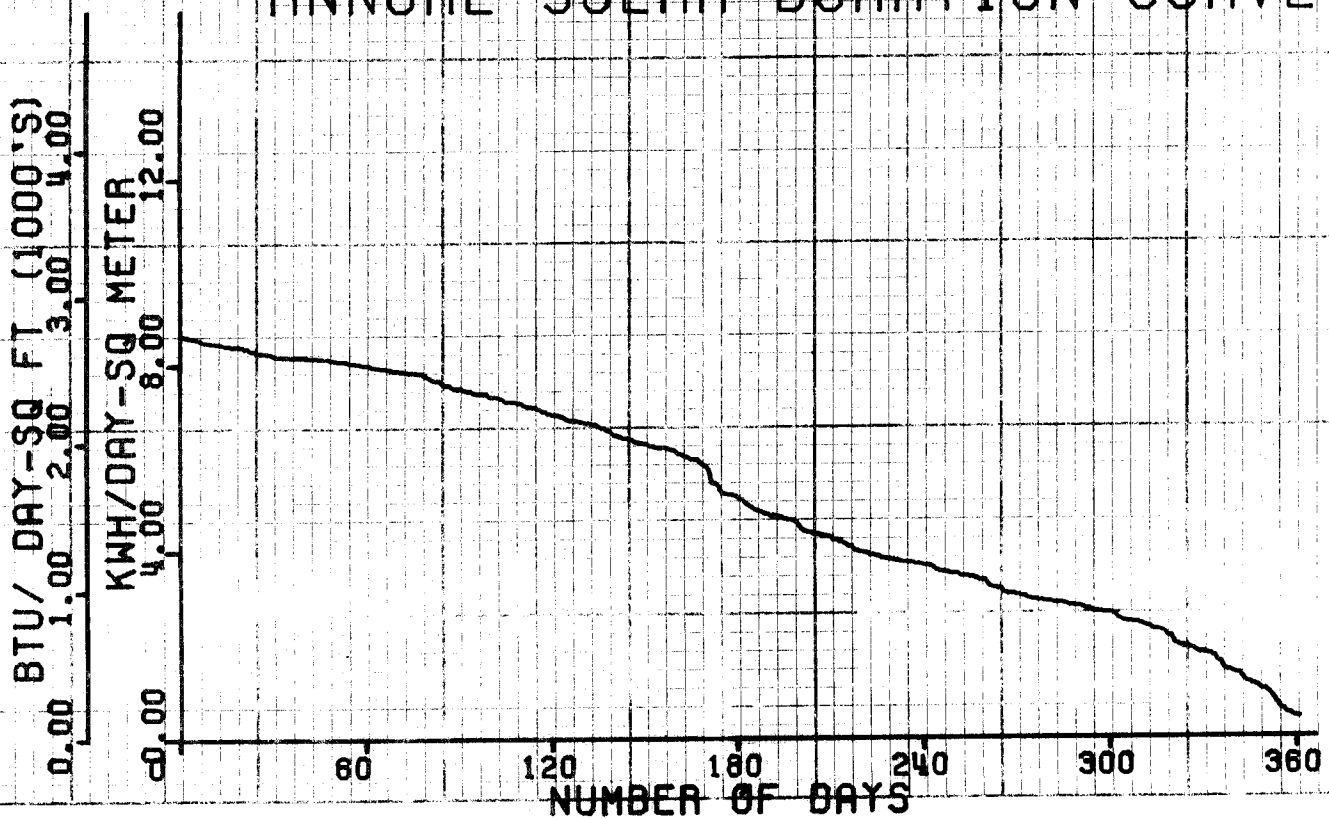
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

VISALIA, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR VISALIA, CALIF.

ACCOUNT/ 50955001
CHANNELS 50955003

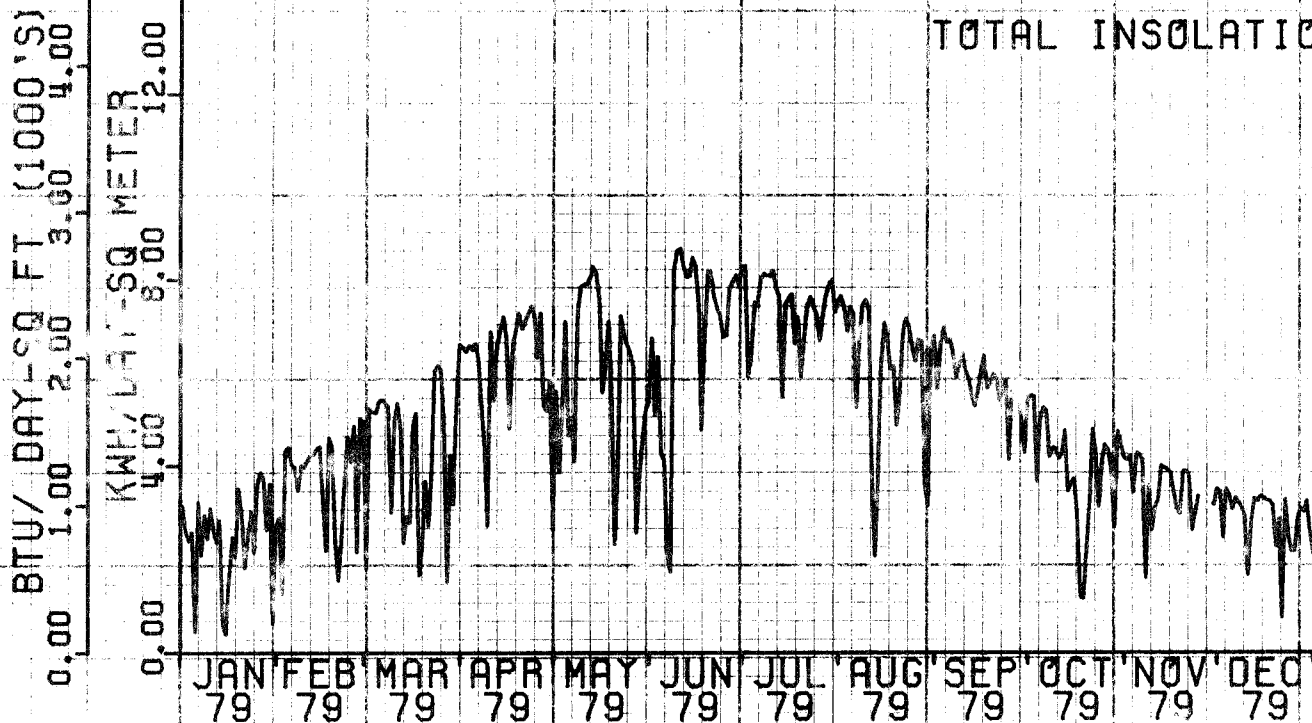
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTAL INSOL PER DAY* BTU/SQ F'
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.3 49.5	30.3 51.1	76.8 51.4	46.9	51.2	45.8	561.2	0.0	31	0	540.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 65.2	22.0 57.0	76.5 56.2	135.0 56.3	50.3	55.7	48.1	411.6	0.0	28	0	934.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.3 57.2	18.0 62.7	76.3 64.0	128.0 63.7	177.0 63.3	57.0	62.4	54.3	249.5	0.0	30	0	1227.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	6.5 69.8	94.5 69.0	156.5 68.9	207.5 68.6	265.5 67.8	62.1	67.2	58.1	101.0	0.0	21	0	2002.
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	44.3 80.8	144.7 80.2	208.0 79.8	256.2 79.3	305.5 78.7	72.6	77.9	67.8	22.5	49.1	5	15	2389.
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	71.3 85.1	154.7 84.9	214.0 84.4	264.5 84.1	314.5 83.8	77.9	83.0	72.7	0.3	112.2	1	22	2578.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	52.5 87.0	145.0 87.5	203.0 87.3	253.5 86.9	303.2 86.5	81.3	86.1	76.7	0.0	196.9	0	25	2457.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	8.5 90.9	116.5 85.0	180.0 84.5	237.0 84.1	290.2 83.6	78.2	83.2	73.9	0.0	112.1	0	23	2174.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	72.0 86.3	145.7 85.7	202.0 85.1	249.2 84.4	78.0	83.8	73.3	0.0	95.2	0	21	1881.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	69.0 75.7	142.2 74.2	204.5 73.5	66.6	72.5	63.2	56.0	1.4	11	3	1295.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 70.0	3.0 67.1	65.8 62.2	141.5 61.4	54.0	60.8	51.3	328.6	0.0	30	0	866.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	24.5 61.4	99.0 59.2	50.1	57.4	48.0	447.7	0.0	30	0	572.

NOTE

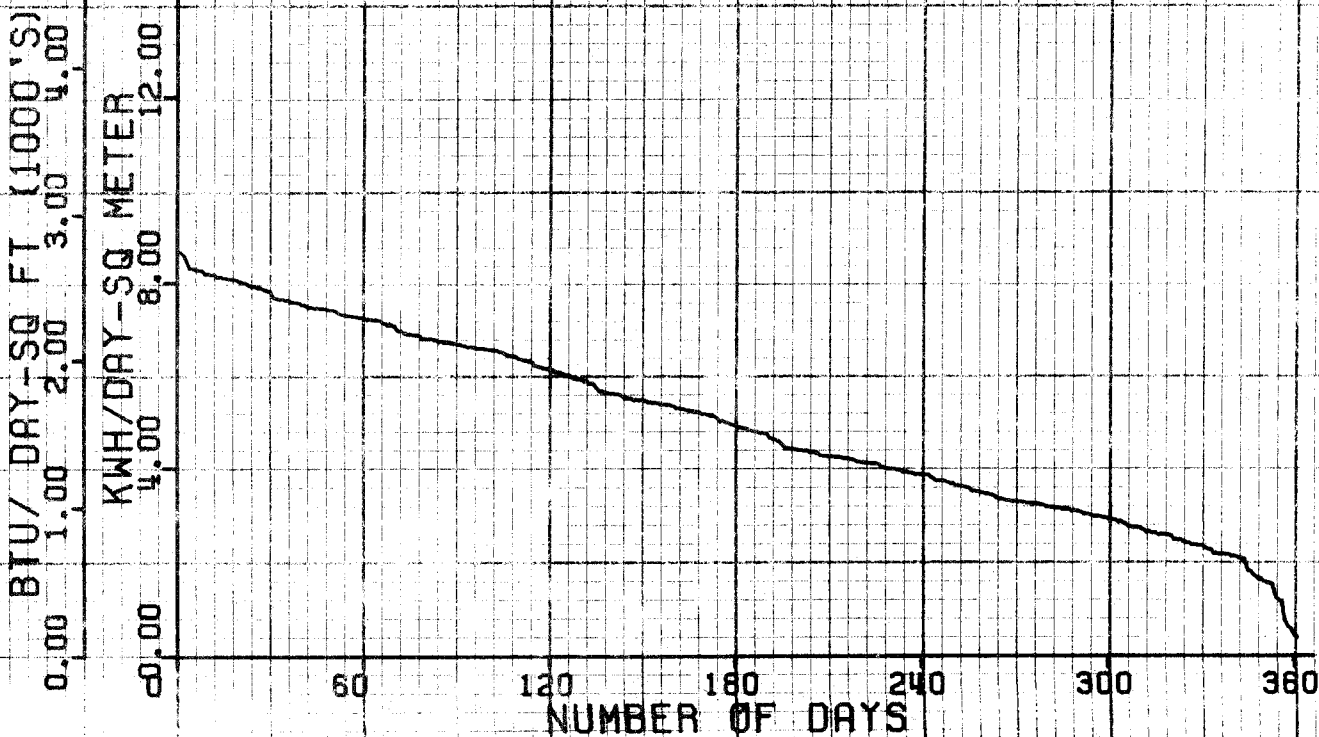
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

WALNUT, CALIF.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR WALNUT, CALIF.

ACCOUNT/
CHANNELS 26955831
26955833

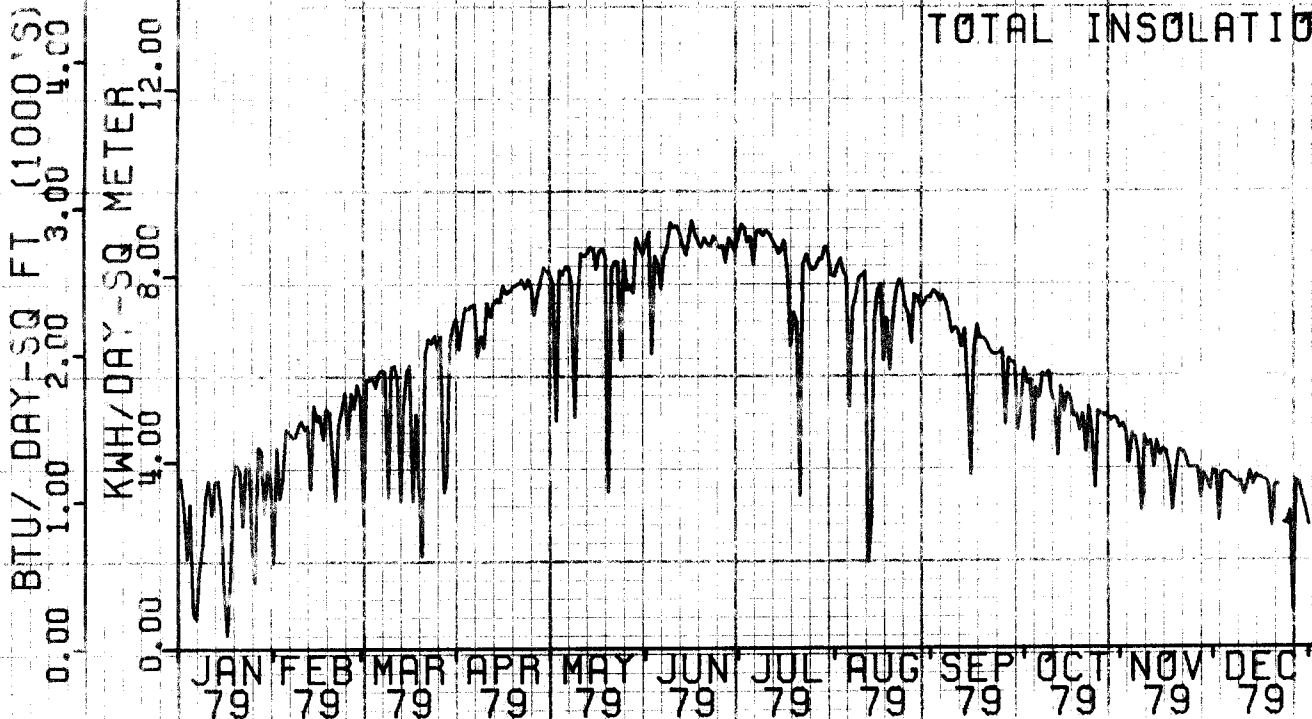
DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOTA INSOL PE DAY* BTU/SQ F
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	3.5 0.0	53.5 52.4	111.5 51.9	44.8	52.1	42.1	101.2	0.0	5	0	694.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.8 60.4	46.5 69.0	104.0 67.4	155.0 66.0	54.8	63.7	50.5	183.6	0.0	18	0	1106.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 60.5	25.8 69.0	84.3 70.6	133.0 68.8	184.5 67.2	56.8	65.2	52.6	259.2	0.0	29	0	1279.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	6.8 73.7	90.3 75.5	147.0 74.4	196.5 73.1	244.0 71.7	61.4	70.0	55.3	111.9	0.0	26	0	1895.
5/79	NUM OF HOURS AVG TEMP (F)	0.5 70.1	20.3 83.4	88.3 79.0	133.7 77.6	178.2 76.1	230.0 74.6	64.4	72.2	58.8	67.3	4.5	22	2	1796.
6/79	NUM OF HOURS AVG TEMP (F)	0.3 73.3	38.3 91.0	123.0 87.4	172.2 86.0	216.2 84.6	258.5 83.2	71.2	81.0	63.5	6.3	44.6	4	9	2120.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	29.3 86.6	135.5 86.0	196.2 84.8	242.7 83.8	292.2 82.6	72.4	81.2	64.9	0.1	7.5	1	6	2274.
8/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	7.0 88.1	94.0 86.0	151.2 84.9	200.5 83.9	252.0 82.7	72.4	81.0	66.2	0.0	14.4	0	8	1883.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	49.8 93.4	141.0 91.3	200.7 89.5	247.0 88.0	75.5	86.5	68.2	0.0	65.7	0	14	1783.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.8 85.7	68.5 79.2	128.0 77.9	181.0 76.6	65.2	74.9	60.6	39.3	0.0	18	0	1179.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	15.0 76.4	90.0 73.5	142.5 71.8	58.3	69.7	52.9	174.9	0.0	26	0	1050.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	65.8 75.0	141.2 72.5	57.5	70.2	52.4	233.4	0.0	29	0	839.

NOTE

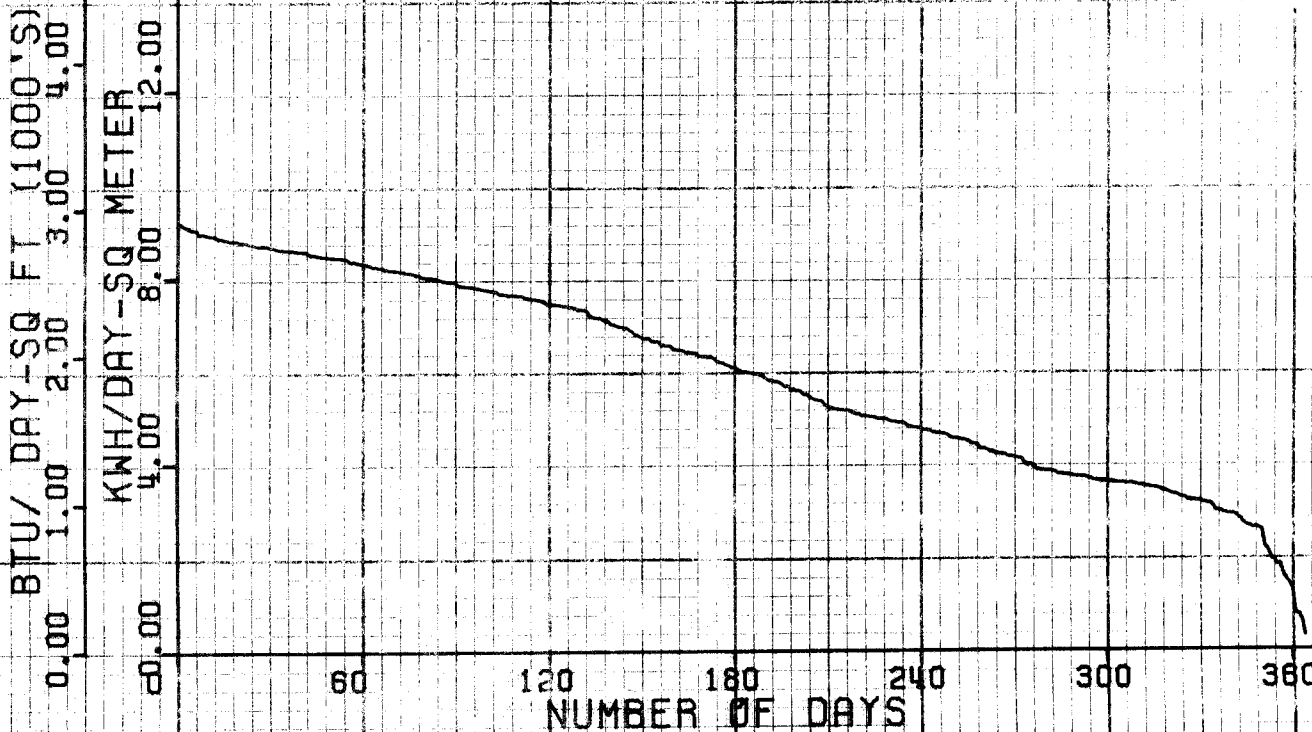
AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION

YUCCA VALLEY, CA
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR YUCCA VALLEY, CA

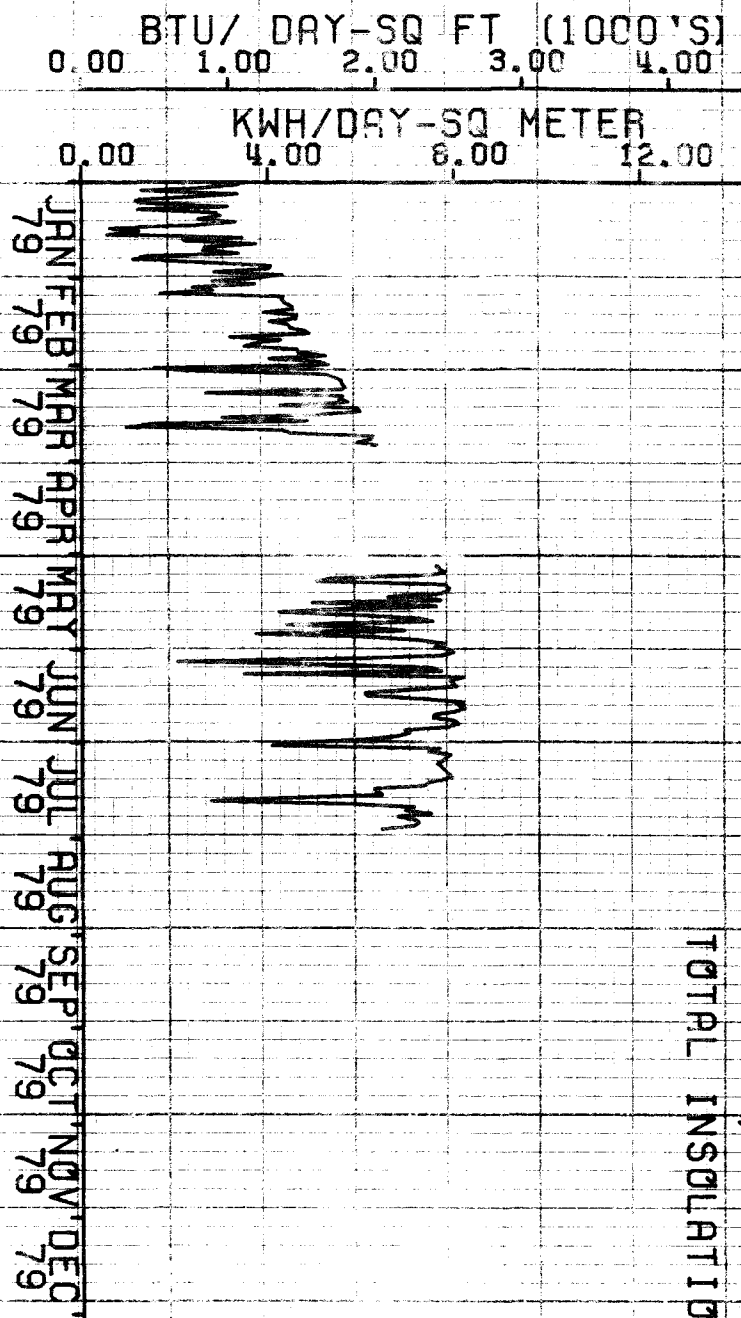
ACCOUNT/ CHANNELS 84956321
84956323

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOT INSOL P DAY* BTU/SQ
		350	300	250	200	150	100								
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.8 41.5	21.5 44.7	74.8 46.9	122.5 46.8	39.8	46.4	37.2	730.5	0.0	29	0	799.
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	10.8 58.8	93.3 55.6	142.7 55.0	197.2 54.3	44.7	53.4	39.9	568.4	0.0	28	0	1428.
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	2.0 55.9	66.0 60.6	123.0 60.4	171.0 59.7	229.2 58.4	49.9	57.2	45.3	452.0	0.0	30	0	1635.
4/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	51.5 71.6	135.0 69.6	195.0 68.9	241.5 68.4	285.0 67.5	58.7	66.4	52.2	195.0	0.0	26	0	2319.
5/79	NUM OF HOURS AVG TEMP (F)	1.0 85.3	76.8 77.8	146.5 77.0	200.2 76.4	252.2 75.6	302.2 74.7	66.3	73.4	59.9	72.2	1.6	9	1	2419.
6/79	NUM OF HOURS AVG TEMP (F)	0.3 97.0	92.8 88.8	167.7 88.5	222.5 87.7	270.0 87.1	315.7 86.2	77.0	84.5	69.6	5.3	109.3	2	18	2679.
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	86.8 93.5	165.2 92.6	220.0 92.1	267.5 91.3	310.2 90.4	81.4	89.1	74.1	0.0	217.0	0	25	2552.
8/79	NUM OF HOURS AVG TEMP (F)	0.5 75.0	51.8 89.5	129.5 88.6	183.0 87.9	231.7 87.1	274.0 86.2	77.3	84.7	71.1	0.0	106.9	0	17	2186.
9/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	10.8 93.5	100.0 92.3	161.0 91.5	210.2 90.7	255.0 89.7	78.1	88.3	70.8	0.0	101.6	0	21	1978.
10/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	19.3 84.8	116.5 78.3	176.5 77.5	232.0 76.4	64.6	75.0	58.3	92.8	1.0	16	2	1558.
11/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.5 62.3	46.5 62.1	130.0 61.3	192.5 60.6	49.4	59.5	44.2	469.2	0.0	30	0	1216.
12/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.0 0.0	0.5 64.5	101.0 64.2	166.5 63.0	48.1	61.1	42.4	506.7	0.0	30	0	981.

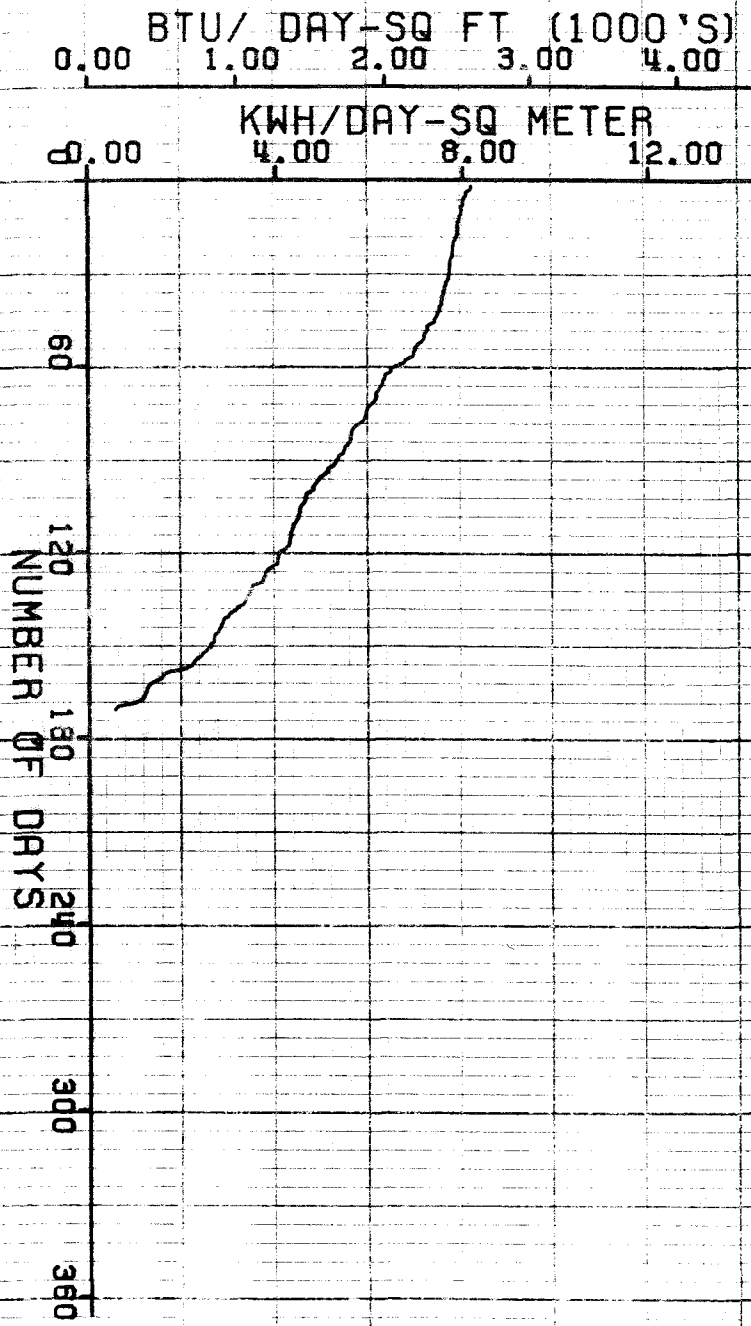
NOTE

AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

ANNUAL DISTRIBUTION
TUCSON, ARIZ.
TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



BUILDING APPLICATIONS DATA FOR TUCSON, ARIZ.

ACCOUNT/ CHANNELS 82832101 82832103

DATE MO/YR	NUMBER OF HOURS ABOVE GIVEN TOTAL INSOLATION LEVEL AND THE AVERAGE TEMPERATURE DURING THOSE HOURS	BTU'S PER SQUARE FOOT PER HOUR						AVG DAILY TEMP DEG F	AVG DAYLT TEMP* DEG F	AVG NIGHT TEMP* DEG F	MONTHLY HEATING DEG-DAYS (65 F)	MONTHLY COOLING DEG-DAYS (75 F)	NUMBER OF HEATING DAYS	NUMBER OF COOLING DAYS	AVG TOT. INSOL P DAY* BTU/SQ	
		350	300	250	200	150	100									
1/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	0.3 0.0	7.0 44.4	59.3 50.4	111.0 50.6	46.7	51.2	44.6	91.7	0.0	5	0	708.	
2/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.0 0.0	2.0 64.6	57.5 64.4	121.2 63.6	177.2 62.2	51.9	61.0	47.1	368.1	0.0	28	0	1243.	
3/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	0.5 61.0	32.8 70.6	86.0 69.9	131.5 68.1	176.2 66.6	55.2	64.8	50.3	244.7	0.0	25	0	1405.	
4/79	NUM OF HOURS AVG TEMP (F)	----- I N S U F F I C I E N T D A T A -----														
5/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	29.5 82.6	99.8 81.9	152.5 81.0	197.0 80.3	241.5 79.5	71.2	78.3	65.9	23.6	22.2	4	8	2052.	
6/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	34.0 91.3	119.7 92.5	172.5 91.9	217.2 91.4	265.7 90.5	82.8	89.2	77.0	0.0	244.6	0	24	2147.	
7/79	NUM OF HOURS AVG TEMP (F)	0.0 0.0	14.8 97.5	106.5 96.1	160.0 95.7	206.5 95.0	251.0 94.4	86.0	92.6	81.8	0.0	253.1	0	23	2118.	
8/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	82.5	8888.0	8888.0	0.0	165.0	0	21	8888.	
9/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	82.3	8888.0	8888.0	0.0	228.8	0	25	8888.	
10/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	71.1	8888.0	8888.0	36.0	32.6	6	10	8888.	
11/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	54.9	8888.0	8888.0	307.8	0.0	29	0	8888.	
12/79	NUM OF HOURS AVG TEMP (F)	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	888.8 888.8	50.6	8888.0	8888.0	432.0	0.0	30	0	8888.	

NOTE

AVERAGE DAYLIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS ABOVE 50 BTU/SQ.FT-HR
 AVERAGE NIGHT TEMPERATURE--TEMPERATURE AVERAGED OVER THE INTERVALS WHEN THE TOTAL INSOLATION IS BELOW 50 BTU/SQ.FT-HR
 AVG TOTAL INSOL. PER DAY--SUM OF TOTAL INSOL. VALUES ABOVE 50 BTU/SQ.FT-HR DIVIDED BY THE NUMBER OF DAYS IN THE MONTH

APPENDIX E

DETAILED STATISTICAL SUMMARY

The Detailed Statistical Summary is designed to provide information in a concise manner while maintaining the high degree of time resolution that is possible from 15-minute interval data. Such information would be useful to those interested in examining the daily, monthly and annual patterns of insolation and temperature.

For each station a separate booklet is produced. The information is presented as follows:

- I Building Applications
 - 1 Building Applications Data Table
- II Total Insolation Plots
 - 1 Annual Distribution and Annual Solar Duration Curve
 - 12 Monthly Distributions and Monthly Solar Duration Curves
 - 12 Daily Profiles and Daily Solar Duration Curves
- III Total Insolation Tables
 - 1 Annual Solar Duration Curve
 - 12 Monthly Distributions
 - 12 Monthly Solar Duration Curves
 - 12 Daily Profiles
 - 12 Daily Solar Duration Curves

- IV Direct Insolation Plots (if measured)
 - 25 Plots, same as Total Insolation

- V Direct Insolation Tables (if measured)
 - 49 Tables, same as Total Insolation
 - 12 Interruption Tables

- VI Dry Bulb Temperature Tables
 - 12 Monthly Distributions
 - 12 Daily Profiles

This section contains a sample of Barstow data in each format. One sample has been included for each plot and table. The complete Detailed Statistical Summary for a station may be ordered as set forth in Section III, "Cost and Ordering Procedures."

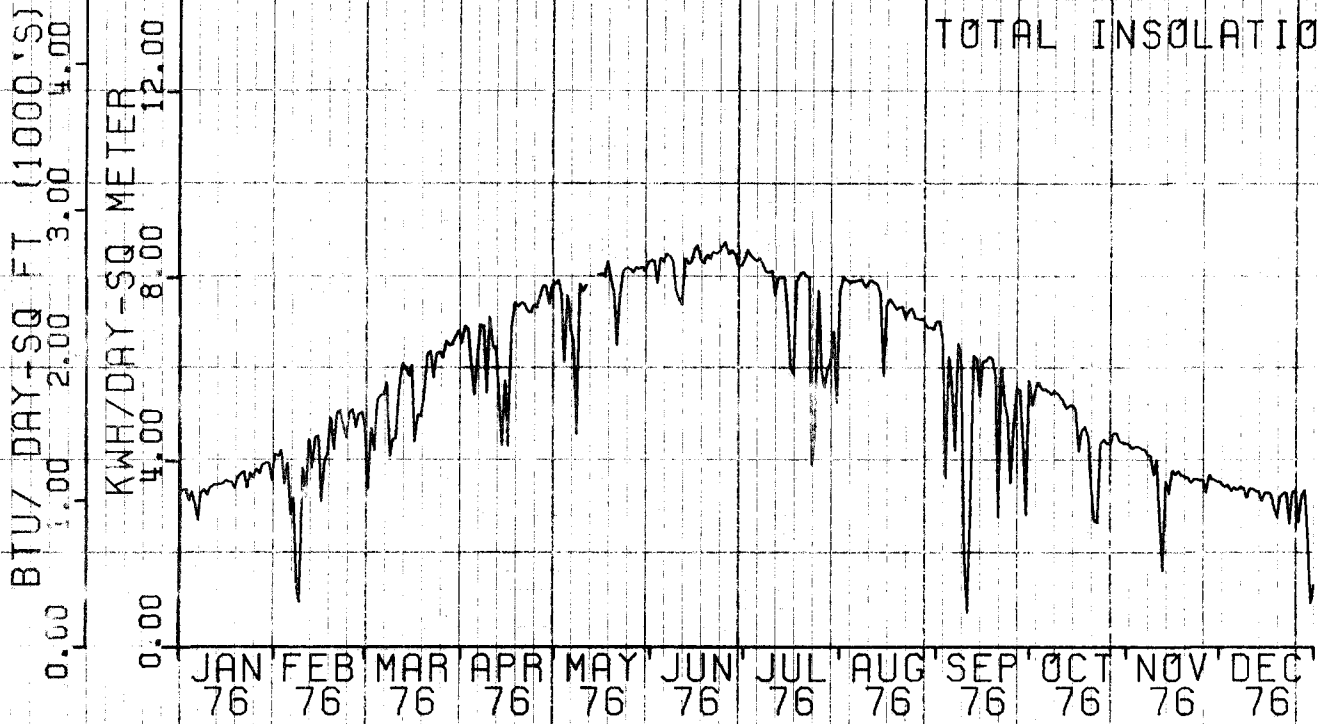
EXAMPLE OF
DETAILED STATISTICAL SUMMARY

TOTAL INSOLATION
ON A HORIZONTAL SURFACE

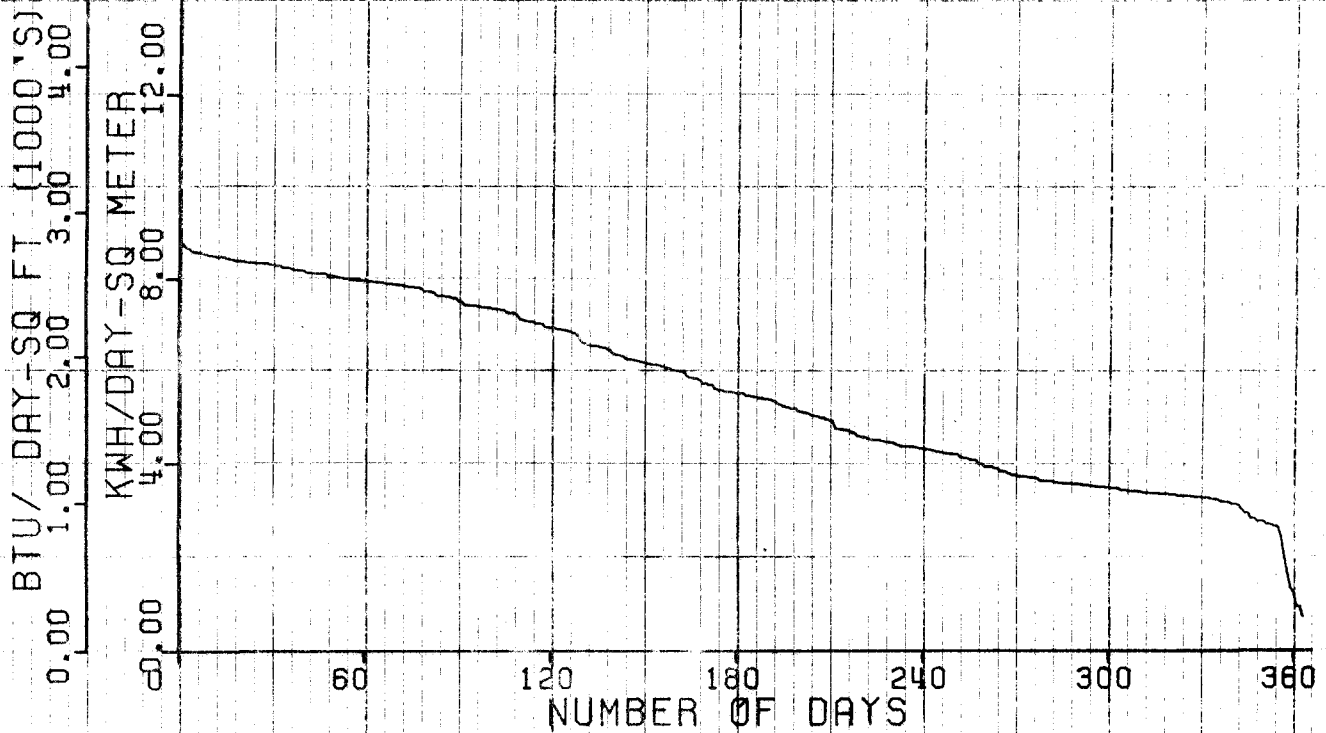
ANNUAL DISTRIBUTION

BARSTOW, CALIF.

TOTAL INSOLATION



ANNUAL SOLAR DURATION CURVE



ANNUAL SOLAR DURATION CURVE FROM 1/76 THRU 12/76
 BARSTOW, CALIF. --TOTAL INSOLATION--WATTS/ SQ METER

ACCOUNT = 7295561
 CHANNEL = 1

KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS
ABOVE 12.1	0	0.0	8.0	54	14.9	3.9	264	72.7
12.0	0	0.0	7.9	66	18.2	3.8	268	73.8
11.9	0	0.0	7.8	77	21.2	3.7	277	76.3
11.8	0	0.0	7.7	82	22.6	3.6	284	78.2
11.7	0	0.0	7.6	87	24.0	3.5	300	82.6
11.6	0	0.0	7.5	91	25.1	3.4	313	86.2
11.5	0	0.0	7.4	97	26.7	3.3	330	90.9
11.4	0	0.0	7.3	105	28.9	3.2	338	93.1
11.3	0	0.0	7.2	109	30.0	3.1	342	94.2
11.2	0	0.0	7.1	111	30.6	3.0	343	94.5
11.1	0	0.0	7.0	117	32.2	2.9	345	95.0
11.0	0	0.0	6.9	123	33.9	2.8	347	95.6
10.9	0	0.0	6.8	128	35.3	2.7	352	97.0
10.8	0	0.0	6.7	129	35.5	2.6	355	97.8
10.7	0	0.0	6.6	130	35.8	2.5	355	97.8
10.6	0	0.0	6.5	137	37.7	2.4	356	98.1
10.5	0	0.0	6.4	139	38.3	2.3	356	98.1
10.4	0	0.0	6.3	143	39.4	2.2	356	98.1
10.3	0	0.0	6.2	149	41.0	2.1	356	98.1
10.2	0	0.0	6.1	156	43.0	2.0	356	98.1
10.1	0	0.0	6.0	163	44.9	1.9	357	98.3
10.0	0	0.0	5.9	163	44.9	1.8	357	98.3
9.9	0	0.0	5.8	168	46.3	1.7	357	98.3
9.8	0	0.0	5.7	172	47.4	1.6	358	98.6
9.7	0	0.0	5.6	173	47.7	1.5	358	98.6
9.6	0	0.0	5.5	182	50.1	1.4	358	98.6
9.5	0	0.0	5.4	190	52.3	1.3	359	98.9
9.4	0	0.0	5.3	193	53.2	1.2	360	99.2
9.3	0	0.0	5.2	198	54.5	1.1	360	99.2
9.2	0	0.0	5.1	203	55.9	1.0	360	99.2
9.1	0	0.0	5.0	208	57.3	0.9	362	99.7
9.0	0	0.0	4.9	211	58.1	0.8	362	99.7
8.9	0	0.0	4.8	211	58.1	0.7	363	100.0
8.8	0	0.0	4.7	217	59.8	0.6	363	100.0
8.7	2	0.6	4.6	219	60.3	0.5	363	100.0
8.6	4	1.1	4.5	227	62.5	0.4	363	100.0
8.5	12	3.3	4.4	232	63.9	0.3	363	100.0
8.4	20	5.5	4.3	243	66.9	0.2	363	100.0
8.3	32	8.8	4.2	251	69.1	0.1	363	100.0
8.2	38	10.5	4.1	256	70.5	0.0	363	100.0
8.1	47	12.9	4.0	259	71.3			

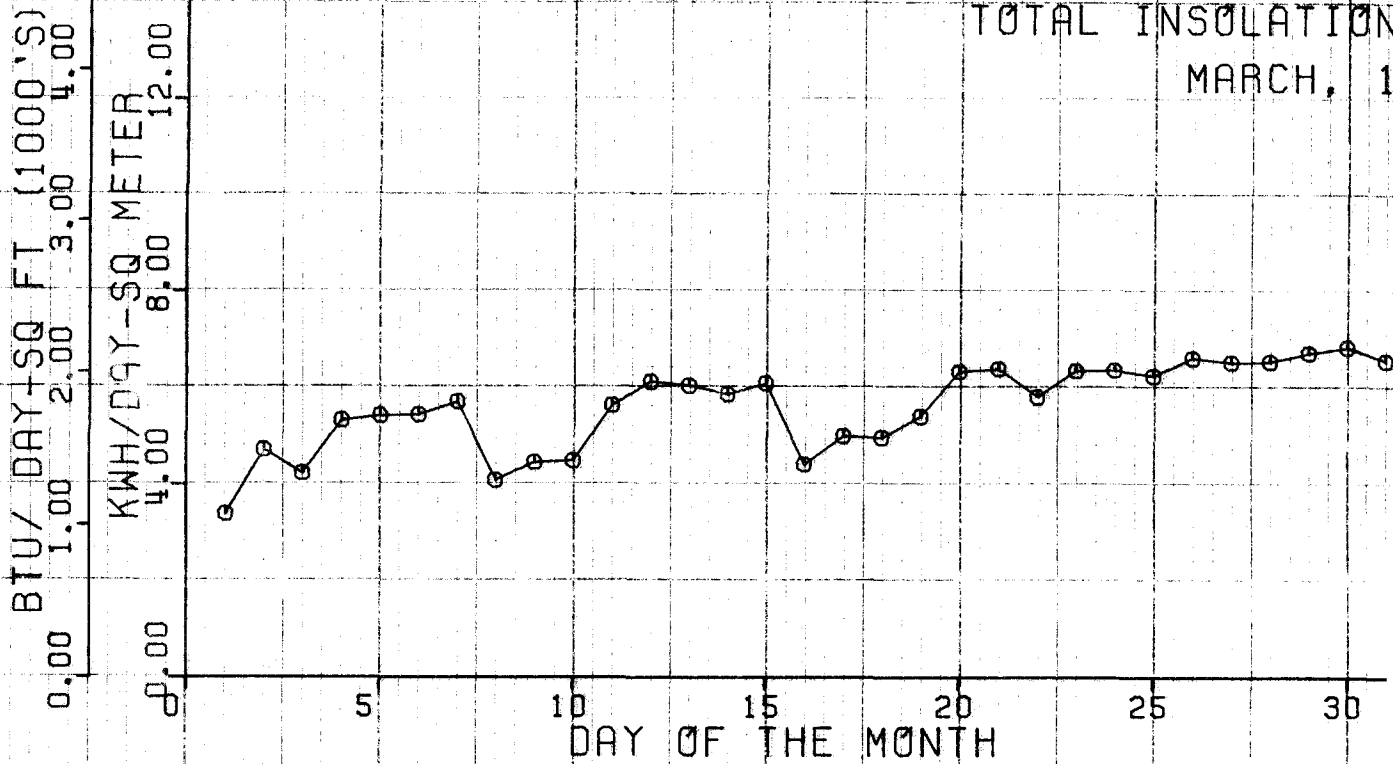
161

MONTHLY DISTRIBUTION

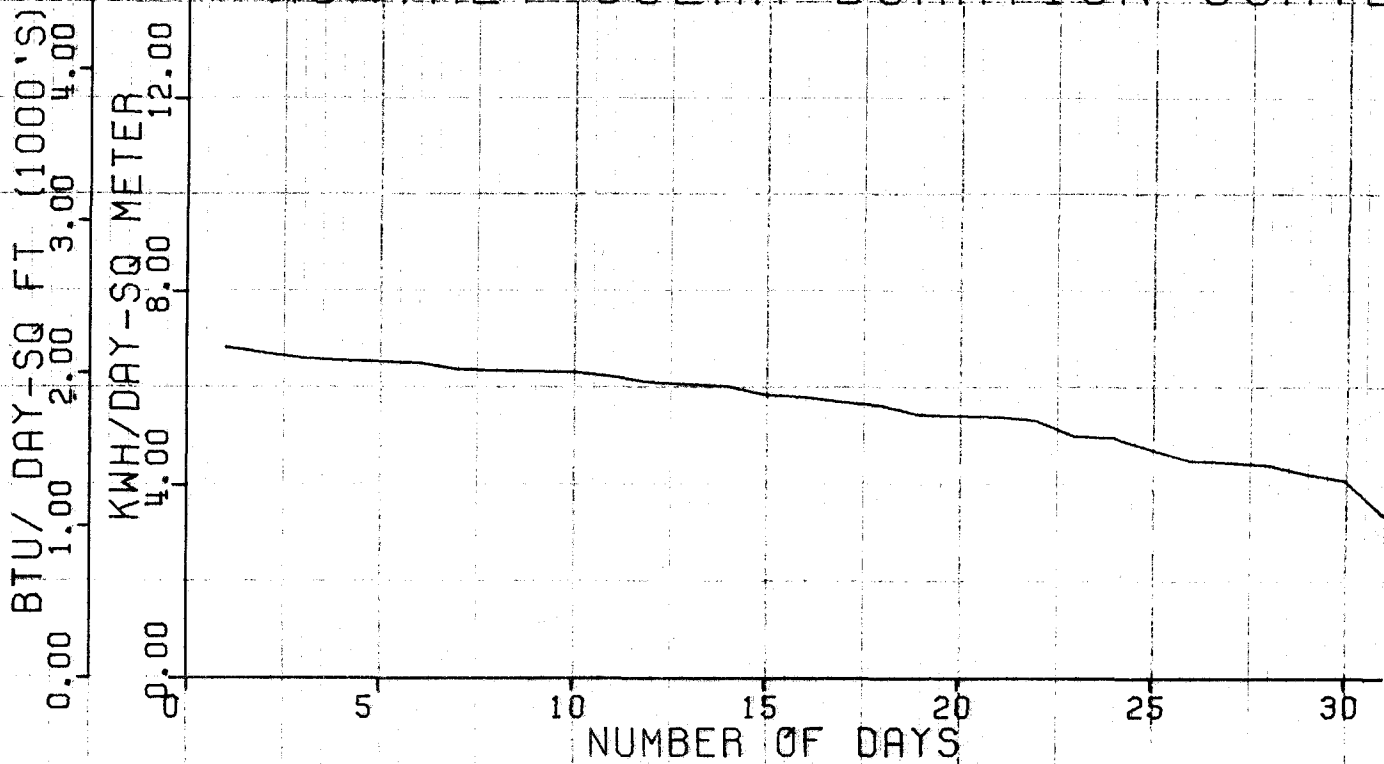
BARSTOW, CALIF.

TOTAL INSOLATION

MARCH, 1976



MONTHLY SOLAR DURATION CURVE



MONTHLY DISTRIBUTION

DETAILED STATISTICAL SUMMARY FOR MARCH, 1976
 BARSTOW, CALIF. --TOTAL INSOLATION--WATTS/ SQ METER

ACCOUNT = 7295561
 CHANNEL = 1

DAY	DATE	DAY OF YEAR	BTU/ DAY-SQ FT	KWH/ DAY-SQ M	MAXIMUM VALUE	TIME OF MAX	MINIMUM VALUE	TIME OF MIN	NUM OF OBSERV	DAY	DATE
MON	1	61	1075.	3.39	691.	1146	0.	16	96	MON	1
TUE	2	62	1499.	4.73	890.	1146	0.	16	96	TUE	2
WED	3	63	1342.	4.23	720.	1031	0.	31	96	WED	3
THU	4	64	1690.	5.33	777.	1201	0.	16	96	THU	4
FRI	5	65	1720.	5.43	795.	1146	0.	16	96	FRI	5
SAT	6	66	1727.	5.45	797.	1216	0.	1	96	SAT	6
SUN	7	67	1812.	5.71	807.	1201	0.	1	96	SUN	7
MON	8	68	1298.	4.10	799.	1246	0.	16	96	MON	8
TUE	9	69	1417.	4.47	756.	1146	0.	16	96	TUE	9
WED	10	70	1428.	4.50	808.	1201	0.	1	96	WED	10
THU	11	71	1789.	5.64	811.	1201	0.	1	96	THU	11
FRI	12	72	1942.	6.12	852.	1146	0.	16	96	FRI	12
SAT	13	73	1917.	6.05	848.	1146	0.	16	96	SAT	13
SUN	14	74	1860.	5.87	873.	1116	0.	1	96	SUN	14
MON	15	75	1931.	6.09	849.	1146	0.	16	96	MON	15
TUE	16	76	1401.	4.42	818.	1301	0.	1	96	TUE	16
WED	17	77	1588.	5.01	883.	1146	0.	16	96	WED	17
THU	18	78	1578.	4.98	842.	1046	0.	1	96	THU	18
FRI	19	79	1714.	5.41	850.	1101	0.	1	96	FRI	19
SAT	20	80	2009.	6.34	892.	1146	0.	16	96	SAT	20
SUN	21	81	2027.	6.40	868.	1201	0.	16	96	SUN	21
MON	22	82	1843.	5.81	891.	1146	0.	31	96	MON	22
TUE	23	83	2014.	6.35	870.	1201	0.	16	96	TUE	23
WED	24	84	2020.	6.37	870.	1146	0.	1	96	WED	24
THU	25	85	1980.	6.25	880.	1116	0.	16	96	THU	25
FRI	26	86	2099.	6.62	888.	1146	0.	1	96	FRI	26
SAT	27	87	2070.	6.53	890.	1131	0.	1	96	SAT	27
SUN	28	88	2076.	6.55	884.	1201	0.	1	96	SUN	28
MON	29	89	2133.	6.73	899.	1201	0.	1	96	MON	29
TUE	30	90	2171.	6.85	905.	1146	0.	1	96	TUE	30
WED	31	91	2084.	6.57	896.	1131	0.	16	96	WED	31

DAY	DATE	DAY OF YEAR	BTU/ DAY-SQ FT	KWH/ DAY-SQ M	MAXIMUM VALUE	TIME OF MAX	MINIMUM VALUE	TIME OF MIN	NUM OF OBSERV	DAY	DATE
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MONTHLY STATISTICS

MEAN = 5.62 KWH/SQ M , 1782. BTU/SQ FT
 TOTAL ENERGY FOR MONTH = 174.30 KWH/SQ M
 = 55251. BTU/SQ FT
 MAXIMUM FOR MONTH 905. ON TUE 30 AT 1146 HOURS
 MINIMUM FOR MONTH 0. ON MON 1 AT 16 HOURS
 NUMBER OF OBSERVATIONS = 2976

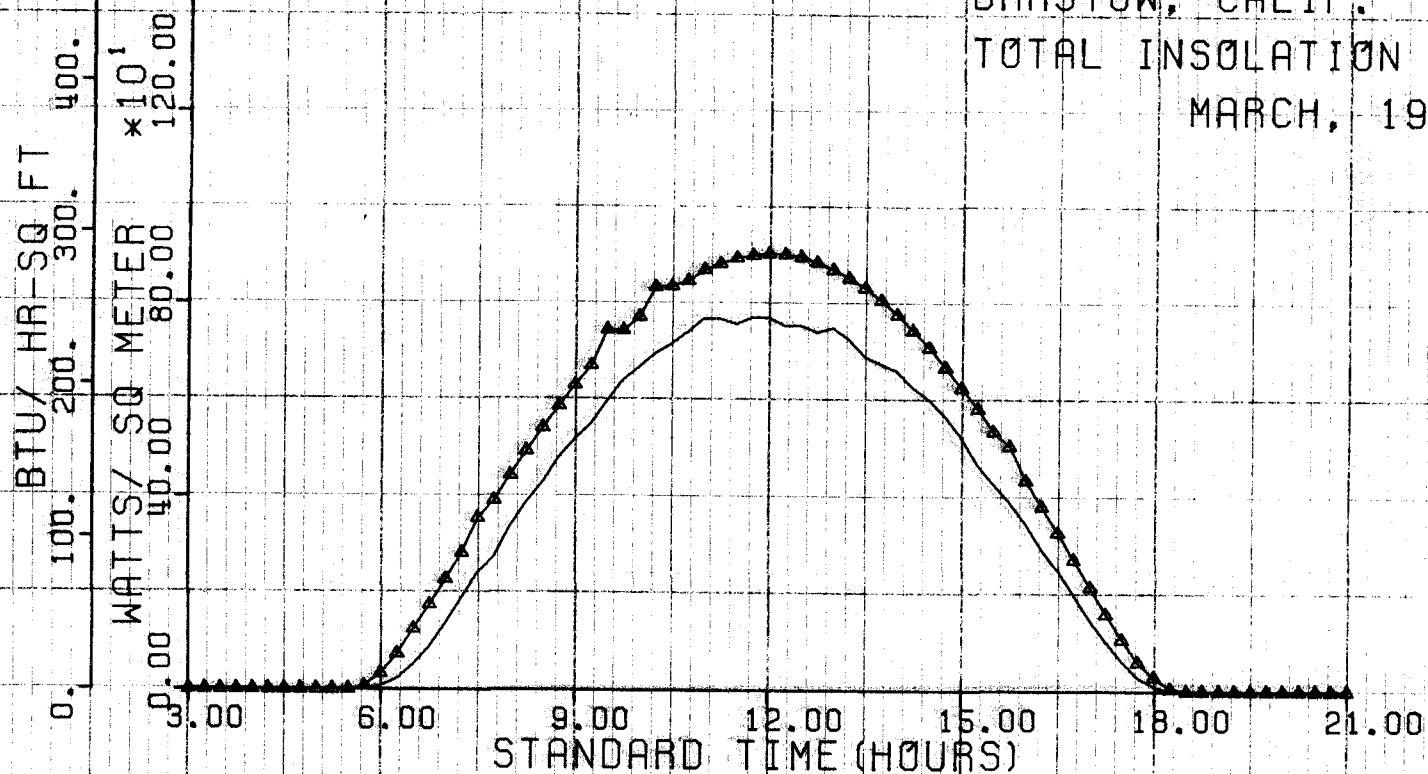
MONTHLY SOLAR DURATION CURVE FOR MARCH, 1976
 BARSTOW, CALIF. --TOTAL INSOLATION--WATTS/ SQ METER

ACCOUNT = 7295561
 CHANNEL = 1

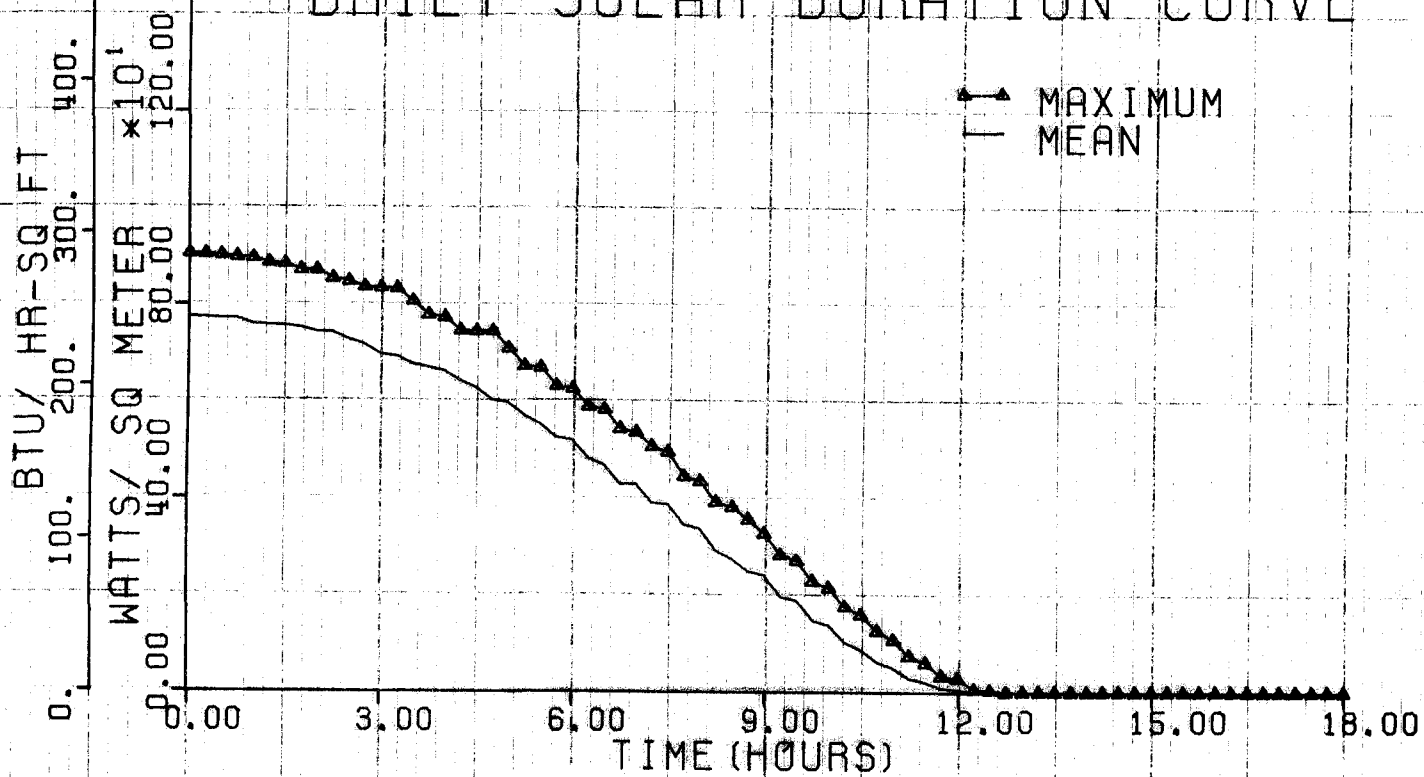
KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS
ABOVE 12.1	0	0.0	8.0	0	0.0	3.9	30	96.8
12.0	0	0.0	7.9	0	0.0	3.8	30	96.8
11.9	0	0.0	7.8	0	0.0	3.7	30	96.8
11.8	0	0.0	7.7	0	0.0	3.6	30	96.8
11.7	0	0.0	7.6	0	0.0	3.5	30	96.8
11.6	0	0.0	7.5	0	0.0	3.4	30	96.8
11.5	0	0.0	7.4	0	0.0	3.3	31	100.0
11.4	0	0.0	7.3	0	0.0	3.2	31	100.0
11.3	0	0.0	7.2	0	0.0	3.1	31	100.0
11.2	0	0.0	7.1	0	0.0	3.0	31	100.0
11.1	0	0.0	7.0	0	0.0	2.9	31	100.0
11.0	0	0.0	6.9	0	0.0	2.8	31	100.0
10.9	0	0.0	6.8	1	3.2	2.7	31	100.0
10.8	0	0.0	6.7	2	6.5	2.6	31	100.0
10.7	0	0.0	6.6	3	9.7	2.5	31	100.0
10.6	0	0.0	6.5	6	19.4	2.4	31	100.0
10.5	0	0.0	6.4	6	19.4	2.3	31	100.0
10.4	0	0.0	6.3	10	32.3	2.2	31	100.0
10.3	0	0.0	6.2	11	35.3	2.1	31	100.0
10.2	0	0.0	6.1	12	38.7	2.0	31	100.0
10.1	0	0.0	6.0	14	45.2	1.9	31	100.0
10.0	0	0.0	5.9	14	45.2	1.8	31	100.0
9.9	0	0.0	5.8	16	51.6	1.7	31	100.0
9.8	0	0.0	5.7	17	54.8	1.6	31	100.0
9.7	0	0.0	5.6	18	58.1	1.5	31	100.0
9.6	0	0.0	5.5	18	58.1	1.4	31	100.0
9.5	0	0.0	5.4	21	67.7	1.3	31	100.0
9.4	0	0.0	5.3	22	71.0	1.2	31	100.0
9.3	0	0.0	5.2	22	71.0	1.1	31	100.0
9.2	0	0.0	5.1	22	71.0	1.0	31	100.0
9.1	0	0.0	5.0	23	74.2	0.9	31	100.0
9.0	0	0.0	4.9	24	77.4	0.8	31	100.0
8.9	0	0.0	4.8	24	77.4	0.7	31	100.0
8.8	0	0.0	4.7	25	80.6	0.6	31	100.0
8.7	0	0.0	4.6	25	80.6	0.5	31	100.0
8.6	0	0.0	4.5	26	83.9	0.4	31	100.0
8.5	0	0.0	4.4	28	90.3	0.3	31	100.0
8.4	0	0.0	4.3	28	90.3	0.2	31	100.0
8.3	0	0.0	4.2	29	93.5	0.1	31	100.0
8.2	0	0.0	4.1	29	93.5	0.0	31	100.0
8.1	0	0.0	4.0	30	96.8			

DAILY PROFILE

BARSTOW, CALIF.
TOTAL INSOLATION
MARCH, 1976



DAILY SOLAR DURATION CURVE



DAILY PROFILE
 DETAILED STATISTICAL SUMMARY FOR MARCH, 1976 ACCOUNT = 7295561
 BARSTOW, CALIF. --TOTAL INSOLATION--WATTS/ SQ METER CHANNEL = 1

INT	INTERVAL FROM TO	MEAN BTU/HR/ SQ FT	MEAN W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
1	1 15	0.	0.	0.	1.	1	0.	6	31	1 15	1
2	16 30	0.	0.	0.	1.	3	0.	1	31	16 30	2
3	31 45	0.	0.	0.	1.	1	0.	3	31	31 45	3
4	46 100	0.	0.	0.	1.	7	0.	1	31	46 100	4
5	101 115	0.	0.	0.	1.	2	0.	1	31	101 115	5
6	116 130	0.	0.	0.	1.	1	0.	2	31	116 130	6
7	131 145	0.	0.	0.	1.	2	0.	1	31	131 145	7
8	146 200	0.	1.	0.	1.	1	0.	2	31	146 200	8
9	201 215	0.	0.	0.	1.	2	0.	1	31	201 215	9
10	216 230	0.	0.	0.	1.	1	0.	2	31	216 230	10
11	231 245	0.	0.	0.	1.	2	0.	1	31	231 245	11
12	246 300	0.	0.	0.	1.	1	0.	2	31	246 300	12
13	301 315	0.	0.	0.	1.	2	0.	1	31	301 315	13
14	316 330	0.	1.	0.	1.	1	0.	3	31	316 330	14
15	331 345	0.	0.	0.	1.	3	0.	1	31	331 345	15
16	346 400	0.	1.	0.	1.	1	0.	5	31	346 400	16
17	401 415	0.	0.	0.	1.	4	0.	1	31	401 415	17
18	416 430	0.	1.	0.	1.	1	0.	4	31	416 430	18
19	431 445	0.	0.	0.	1.	4	0.	1	31	431 445	19
20	446 500	0.	0.	0.	1.	1	0.	5	31	446 500	20
21	501 515	0.	0.	0.	1.	3	0.	1	31	501 515	21
22	516 530	0.	1.	0.	1.	1	0.	5	31	516 530	22
23	531 545	1.	2.	2.	7.	31	0.	3	31	531 545	23
24	546 600	2.	7.	9.	34.	31	0.	1	31	546 600	24
25	601 615	7.	22.	21.	75.	30	2.	1	31	601 615	25
26	616 630	16.	52.	35.	126.	30	7.	1	31	616 630	26
27	631 645	28.	89.	45.	177.	30	20.	5	31	631 645	27
28	646 700	44.	138.	53.	230.	30	35.	5	31	646 700	28
29	701 715	60.	190.	63.	284.	30	57.	5	31	701 715	29
30	716 730	77.	242.	73.	357.	27	90.	5	31	716 730	30
31	731 745	87.	275.	77.	393.	30	127.	17	31	731 745	31
32	746 800	107.	338.	85.	445.	30	147.	17	31	746 800	32

INT	INTERVAL FROM TO	MEAN BTU/HR/ SQ FT	MEAN W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
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DETAILED STATISTICAL SUMMARY FOR MARCH, 1976 (CON'T) ACCOUNT = 7295561
 CHANNEL = 1

INT	INTERVAL FROM TO	MEAN BTU/HR/ SQ FT	MEAN W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
33	801 815	123.	388.	81.	496.	30	180.	16	31	801 815	33
34	816 830	136.	430.	84.	543.	30	248.	16	31	816 830	34
35	831 845	153.	483.	80.	588.	30	266.	3	31	831 845	35
36	846 900	165.	520.	85.	632.	30	323.	10	31	846 900	36
37	901 915	175.	552.	98.	672.	30	293.	3	31	901 915	37
38	916 930	189.	597.	93.	746.	27	408.	9	31	916 930	38
39	931 945	204.	643.	84.	746.	30	396.	9	31	931 945	39
40	946 1000	212.	669.	87.	774.	31	363.	9	31	946 1000	40
41	1001 1015	221.	698.	97.	836.	25	442.	17	31	1001 1015	41
42	1016 1030	228.	718.	105.	837.	25	415.	16	31	1016 1030	42
43	1031 1045	235.	743.	99.	849.	27	466.	16	31	1031 1045	43
44	1046 1100	244.	770.	90.	872.	30	470.	16	31	1046 1100	44
45	1101 1115	244.	770.	118.	884.	30	407.	8	31	1101 1115	45
46	1116 1130	241.	759.	151.	897.	30	412.	18	31	1116 1130	46
47	1131 1145	245.	773.	124.	902.	30	382.	3	31	1131 1145	47
48	1146 1200	245.	773.	144.	905.	30	344.	3	31	1146 1200	48
49	1201 1215	240.	756.	165.	904.	30	284.	3	31	1201 1215	49
50	1216 1230	240.	757.	153.	898.	30	324.	8	31	1216 1230	50
51	1231 1245	236.	743.	160.	887.	30	319.	2	31	1231 1245	51
52	1246 1300	239.	752.	155.	872.	30	318.	1	31	1246 1300	52
53	1301 1315	231.	728.	180.	855.	30	93.	1	31	1301 1315	53
54	1316 1330	220.	693.	195.	834.	30	143.	1	31	1316 1330	54
55	1331 1345	215.	677.	172.	808.	30	72.	1	31	1331 1345	55
56	1346 1400	210.	662.	157.	779.	30	138.	1	31	1346 1400	56
57	1401 1415	199.	628.	134.	746.	30	117.	1	31	1401 1415	57
58	1416 1430	191.	603.	133.	710.	30	88.	1	31	1416 1430	58
59	1431 1445	181.	570.	119.	670.	30	223.	1	31	1431 1445	59
60	1446 1500	167.	528.	120.	626.	30	103.	1	31	1446 1500	60
61	1501 1515	148.	468.	128.	583.	30	120.	1	31	1501 1515	61
62	1516 1530	136.	429.	114.	556.	30	72.	10	31	1516 1530	62
63	1531 1545	124.	392.	111.	507.	22	38.	10	31	1531 1545	63
64	1546 1600	110.	346.	94.	436.	30	38.	10	31	1546 1600	64
65	1601 1615	93.	294.	79.	383.	30	32.	10	31	1601 1615	65
66	1616 1630	79.	250.	71.	328.	30	20.	10	31	1616 1630	66
67	1631 1645	63.	198.	57.	272.	30	12.	10	31	1631 1645	67
68	1646 1700	47.	148.	46.	216.	30	7.	10	31	1646 1700	68

INT	INTERVAL FROM TO	MEAN BTU/HR/ SQ FT	MEAN W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
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DETAILED STATISTICAL SUMMARY FOR MARCH, 1976 (CON'T) ACCOUNT = 7295561
CHANNEL = 1

INT	INTERVAL FROM TO	-----MEAN----- BTU/HR/ SQ FT	W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
69	1701 1715	33.	104.	35.	160.	30	11.	10	31	1701 1715	69
70	1716 1730	20.	64.	24.	108.	30	19.	10	31	1716 1730	70
71	1731 1745	10.	30.	15.	61.	30	10.	1	31	1731 1745	71
72	1746 1800	3.	10.	7.	29.	31	2.	2	31	1746 1800	72
73	1801 1815	1.	2.	2.	5.	28	0.	1	31	1801 1815	73
74	1816 1830	0.	0.	0.	1.	1	0.	2	31	1816 1830	74
75	1831 1845	0.	0.	0.	1.	2	0.	1	31	1831 1845	75
76	1846 1900	0.	0.	0.	1.	1	0.	2	31	1846 1900	76
77	1901 1915	0.	0.	0.	1.	2	0.	1	31	1901 1915	77
78	1916 1930	0.	0.	0.	1.	1	0.	4	31	1916 1930	78
79	1931 1945	0.	0.	0.	1.	7	0.	1	31	1931 1945	79
80	1946 2000	0.	0.	0.	1.	1	0.	4	31	1946 2000	80
81	2001 2015	0.	0.	0.	1.	4	0.	1	31	2001 2015	81
82	2016 2030	0.	0.	0.	1.	2	0.	1	31	2016 2030	82
83	2031 2045	0.	0.	0.	1.	1	0.	4	31	2031 2045	83
84	2046 2100	0.	0.	0.	1.	4	0.	1	31	2046 2100	84
85	2101 2115	0.	0.	0.	1.	1	0.	2	31	2101 2115	85
86	2116 2130	0.	0.	0.	1.	2	0.	1	31	2116 2130	86
87	2131 2145	0.	0.	0.	1.	1	0.	2	31	2131 2145	87
88	2146 2200	0.	0.	0.	1.	2	0.	1	31	2146 2200	88
89	2201 2215	0.	0.	0.	1.	1	0.	2	31	2201 2215	89
90	2216 2230	0.	0.	0.	1.	4	0.	1	31	2216 2230	90
91	2231 2245	0.	0.	0.	1.	1	0.	4	31	2231 2245	91
92	2246 2300	0.	0.	0.	1.	6	0.	1	31	2246 2300	92
93	2301 2315	0.	0.	0.	1.	1	0.	4	31	2301 2315	93
94	2316 2330	0.	0.	0.	1.	3	0.	1	31	2316 2330	94
95	2331 2345	0.	0.	0.	1.	1	0.	3	31	2331 2345	95
96	2346 2400	0.	0.	0.	1.	3	0.	1	31	2346 2400	96

INT	INTERVAL FROM TO	-----MEAN----- BTU/HR/ SQ FT	W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
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MONTHLY STATISTICS

MEAN = 5.62 KWH/SQ M , 1782. BTU/SQ FT
 TOTAL ENERGY FOR MONTH = 174.30 KWH/SQ M
 = 55251. BTU/SQ FT
 MAXIMUM FOR MONTH 905. FROM 1146 TO 1200 TUE 30
 MINIMUM FOR MONTH 0. FROM 1 TO 15 SAT 6
 NUMBER OF OBSERVATIONS = 2976

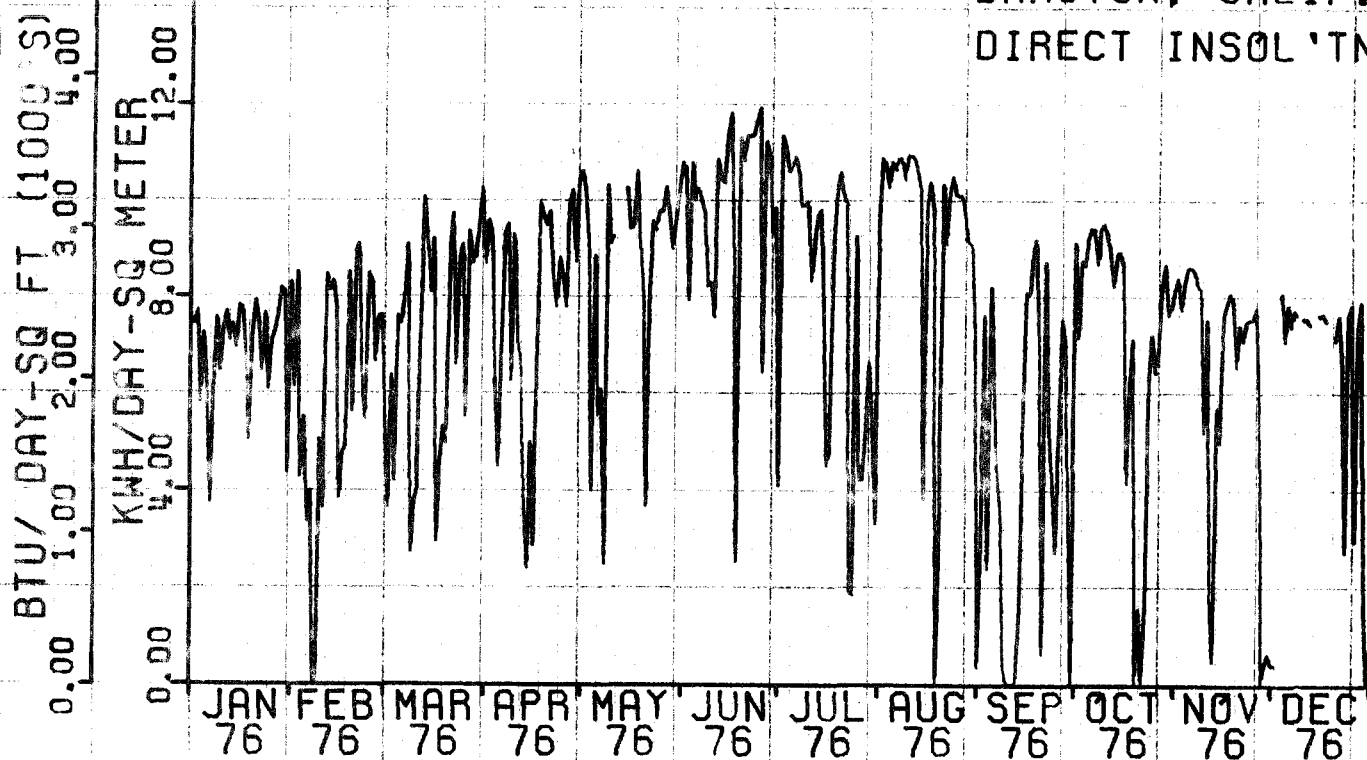
MEAN DAILY SOLAR DURATION CURVE FOR MARCH, 1976 ACCOUNT = 7295561
 BARSTOW, CALIF. --TOTAL INSOLATION--WATTS/ SQ METER CHANNEL = 1

WATTS/SQ M	HOURS	PERCENT HOURS	WATTS/SQ M	HOURS	PERCENT HOURS	WATTS/SQ M	HOURS	PERCENT HOURS
ABOVE 1210.	0.0	0.0	800.	0.0	0.0	590.	7.50	31.3
1200.	0.0	0.0	790.	0.0	0.0	380.	7.75	32.3
1190.	0.0	0.0	780.	0.0	0.0	370.	7.75	32.3
1180.	0.0	0.0	770.	1.00	4.2	360.	7.75	32.3
1170.	0.0	0.0	760.	1.00	4.2	350.	7.75	32.3
1160.	0.0	0.0	750.	2.00	8.3	340.	8.00	33.3
1150.	0.0	0.0	740.	2.50	10.4	330.	8.25	34.4
1140.	0.0	0.0	730.	2.50	10.4	320.	8.25	34.4
1130.	0.0	0.0	720.	2.75	11.5	310.	8.25	34.4
1120.	0.0	0.0	710.	3.00	12.5	300.	8.25	34.4
1110.	0.0	0.0	700.	3.00	12.5	290.	8.50	35.4
1100.	0.0	0.0	690.	3.50	14.6	280.	8.50	35.4
1090.	0.0	0.0	680.	3.50	14.6	270.	8.75	36.5
1080.	0.0	0.0	670.	3.75	15.6	260.	8.75	36.5
1070.	0.0	0.0	660.	4.25	17.7	250.	9.00	37.5
1060.	0.0	0.0	650.	4.25	17.7	240.	9.25	38.5
1050.	0.0	0.0	640.	4.50	18.8	230.	9.25	38.5
1040.	0.0	0.0	630.	4.50	18.8	220.	9.25	38.5
1030.	0.0	0.0	620.	4.75	19.8	210.	9.25	38.5
1020.	0.0	0.0	610.	4.75	19.8	200.	9.25	38.5
1010.	0.0	0.0	600.	5.00	20.8	190.	9.75	40.6
1000.	0.0	0.0	590.	5.25	21.9	180.	9.75	40.6
990.	0.0	0.0	580.	5.25	21.9	170.	9.75	40.6
980.	0.0	0.0	570.	5.25	21.9	160.	9.75	40.6
970.	0.0	0.0	560.	5.50	22.9	150.	9.75	40.6
960.	0.0	0.0	550.	5.75	24.0	140.	10.00	41.7
950.	0.0	0.0	540.	5.75	24.0	130.	10.25	42.7
940.	0.0	0.0	530.	5.75	24.0	120.	10.25	42.7
930.	0.0	0.0	520.	6.25	26.0	110.	10.25	42.7
920.	0.0	0.0	510.	6.25	26.0	100.	10.50	43.8
910.	0.0	0.0	500.	6.25	26.0	90.	10.50	43.8
900.	0.0	0.0	490.	6.25	26.0	80.	10.75	44.8
890.	0.0	0.0	480.	6.50	27.1	70.	10.75	44.8
880.	0.0	0.0	470.	6.50	27.1	60.	11.00	45.8
870.	0.0	0.0	460.	6.75	28.1	50.	11.25	46.9
860.	0.0	0.0	450.	6.75	28.1	40.	11.25	46.9
850.	0.0	0.0	440.	6.75	28.1	30.	11.50	47.9
840.	0.0	0.0	430.	7.00	29.2	20.	11.75	49.0
830.	0.0	0.0	420.	7.25	30.2	10.	12.00	50.0
820.	0.0	0.0	410.	7.25	30.2	0.	24.00	100.0
810.	0.0	0.0	400.	7.25	30.2			

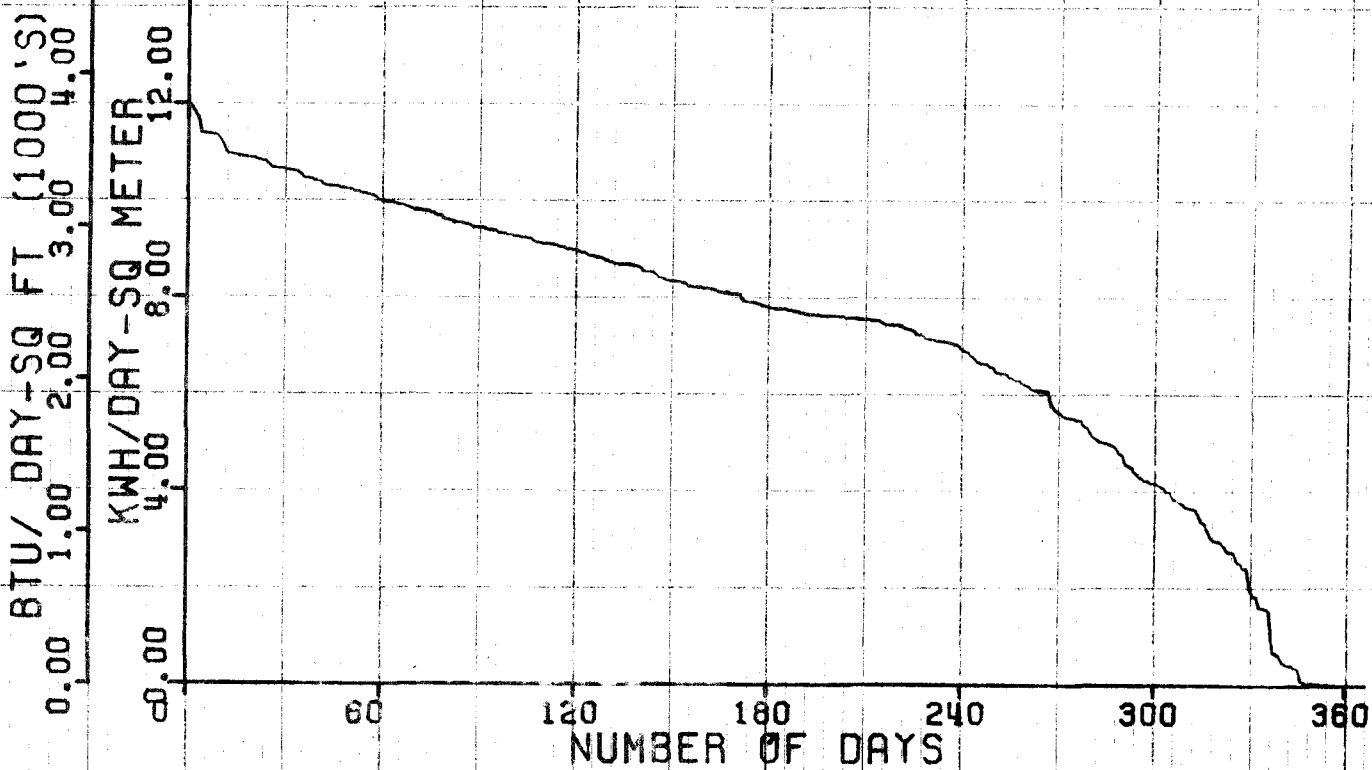
DIRECT INSOLATION

ANNUAL DISTRIBUTION

BARSTOW, CALIF.
DIRECT INSOL'TN



ANNUAL SOLAR DURATION CURVE



ANNUAL SOLAR DURATION CURVE FROM 1/76 THRU 12/76

ACCOUNT = 7295561
CHANNEL = 2

BARSTOW, CALIF. --DIRECT INSOL'TN --WATTS/ SQ METER

KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS
ABOVE 12.1	0	0.0	8.0	171	47.9	3.9	305	85.4
12.0	0	0.0	7.9	175	49.0	3.8	307	86.0
11.9	1	0.3	7.8	180	50.4	3.7	309	86.6
11.8	2	0.6	7.7	189	52.9	3.6	313	87.7
11.7	3	0.8	7.6	203	56.9	3.5	313	87.7
11.6	3	0.8	7.5	215	60.2	3.4	314	88.0
11.5	3	0.8	7.4	221	61.9	3.3	316	88.5
11.4	3	0.8	7.3	225	63.0	3.2	316	88.5
11.3	9	2.5	7.2	228	63.9	3.1	317	88.8
11.2	10	2.8	7.1	234	65.5	3.0	318	89.1
11.1	11	3.1	7.0	239	66.9	2.9	321	89.9
11.0	11	3.1	6.9	241	67.5	2.8	322	90.2
10.9	17	4.8	6.8	243	68.1	2.7	325	91.0
10.8	24	6.7	6.7	244	68.3	2.6	325	91.0
10.7	25	7.0	6.6	248	69.5	2.5	326	91.3
10.6	34	9.5	6.5	250	70.0	2.4	327	91.6
10.5	35	9.8	6.4	254	71.1	2.3	329	92.2
10.4	40	11.2	6.3	257	72.0	2.2	329	92.2
10.3	46	12.9	6.2	261	73.1	2.1	329	92.2
10.2	51	14.3	6.1	265	74.2	2.0	329	92.2
10.1	57	16.0	6.0	267	74.8	1.9	330	92.4
10.0	59	16.5	5.9	267	74.8	1.8	332	93.0
9.9	67	18.8	5.8	268	75.1	1.7	332	93.0
9.8	71	19.9	5.7	269	75.4	1.6	332	93.0
9.7	76	21.3	5.6	271	75.9	1.5	336	94.1
9.6	80	22.4	5.5	275	77.0	1.4	336	94.1
9.5	87	24.4	5.4	277	77.6	1.3	336	94.1
9.4	92	25.8	5.3	279	78.2	1.2	336	94.1
9.3	98	27.5	5.2	280	78.4	1.1	336	94.1
9.2	106	29.7	5.1	281	78.7	1.0	336	94.1
9.1	113	31.7	5.0	285	79.8	0.9	336	94.1
9.0	117	32.8	4.9	288	80.7	0.8	336	94.1
8.9	123	34.5	4.8	288	80.7	0.7	336	94.1
8.8	128	35.9	4.7	290	81.2	0.6	339	95.0
8.7	133	37.3	4.6	290	81.2	0.5	339	95.0
8.6	140	39.2	4.5	292	81.8	0.4	343	96.1
8.5	144	40.3	4.4	293	82.1	0.3	345	96.6
8.4	146	40.9	4.3	295	82.6	0.2	345	96.6
8.3	154	43.1	4.2	298	83.5	0.1	345	96.6
8.2	160	44.8	4.1	302	84.6	0.0	357	100.0
8.1	167	46.8	4.0	303	84.9			

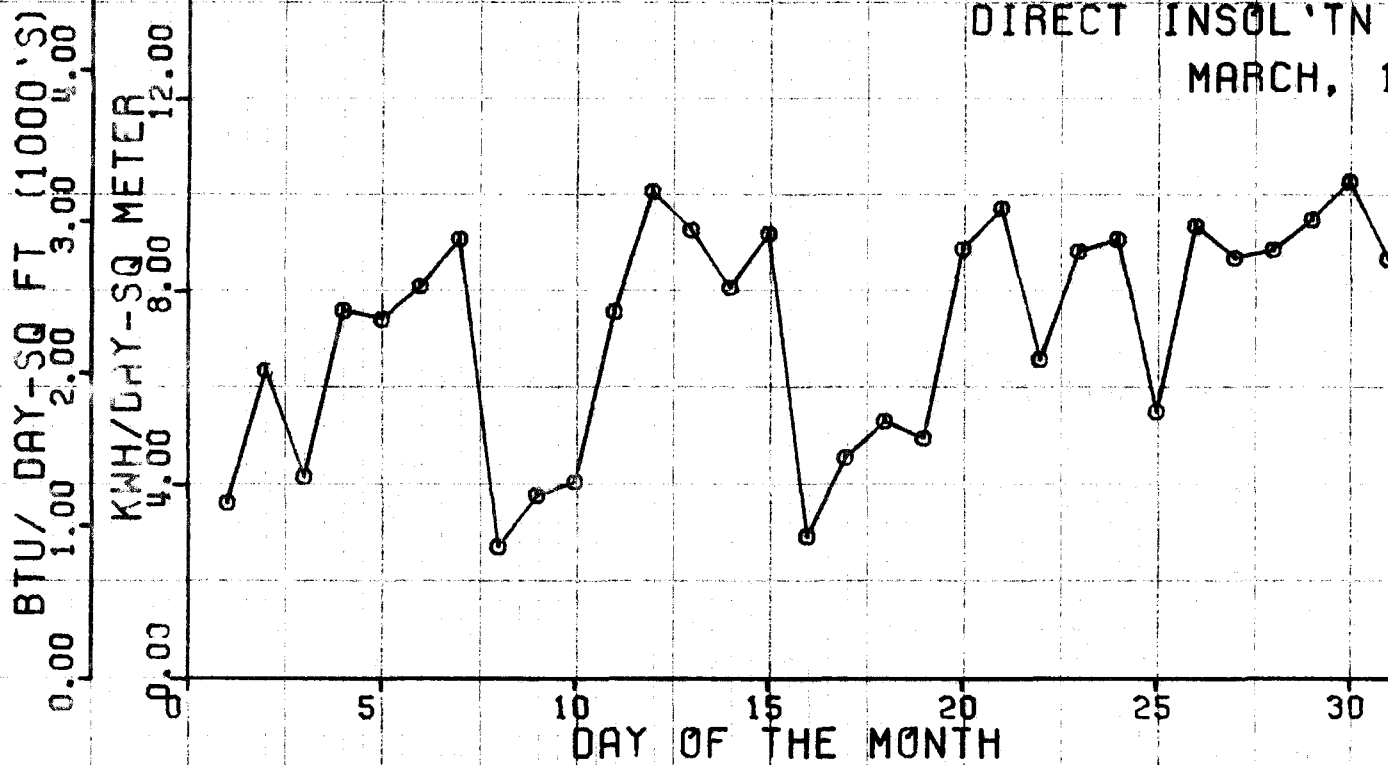
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MONTHLY DISTRIBUTION

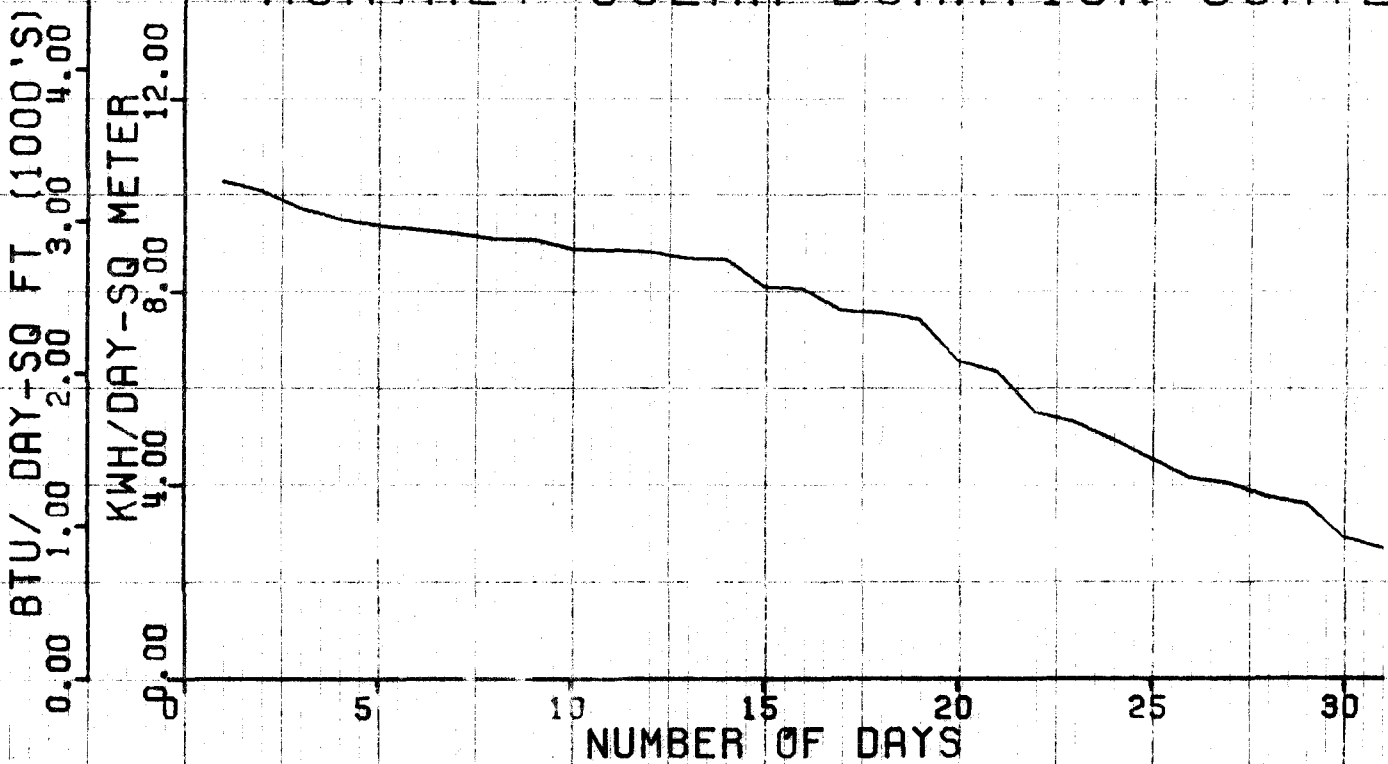
BARSTOW, CALIF.

DIRECT INSOL'TN

MARCH, 1978



MONTHLY SOLAR DURATION CURVE



MONTHLY DISTRIBUTION
 DETAILED STATISTICAL SUMMARY FOR MARCH, 1976
 BARSTOW, CALIF. --DIRECT INSOL'TN --WATTS/ SQ METER

ACCOUNT = 7295561
 CHANNEL = 2

DAY	DATE	DAY OF YEAR	BTU/ DAY-SQ FT	KWH/ DAY-SQ M	MAXIMUM VALUE	TIME OF MAX	MINIMUM VALUE	TIME OF MIN	NUM OF OBSERV	DAY	DATE
MON	1	61	1151.	3.63	943.	1001	0.	1	96	MON	1
TUE	2	62	2020.	6.37	981.	1116	0.	101	96	TUE	2
WED	3	63	1325.	4.18	979.	1001	0.	1	96	WED	3
THU	4	64	2414.	7.61	903.	1231	0.	1	96	THU	4
FRI	5	65	2358.	7.44	929.	1146	0.	1	96	FRI	5
SAT	6	66	2572.	8.11	962.	1231	0.	16	96	SAT	6
SUN	7	67	2885.	9.10	970.	1146	0.	1	96	SUN	7
MON	8	68	864.	2.73	751.	1046	0.	31	96	MON	8
TUE	9	69	1290.	3.79	835.	831	0.	1	96	TUE	9
WED	10	70	1289.	4.07	873.	1216	0.	1	96	WED	10
THU	11	71	2404.	7.59	934.	1231	0.	1	96	THU	11
FRI	12	72	3200.	10.10	1036.	1131	0.	1	96	FRI	12
SAT	13	73	2946.	9.29	1023.	1146	0.	16	96	SAT	13
SUN	14	74	2562.	8.08	979.	1231	0.	1	96	SUN	14
MON	15	75	2921.	9.21	991.	1146	0.	16	96	MON	15
TUE	16	76	931.	2.94	799.	1301	0.	1	96	TUE	16
WED	17	77	1447.	4.57	959.	1316	0.	1	96	WED	17
THU	18	78	1688.	5.32	942.	1046	0.	1	96	THU	18
FRI	19	79	1575.	4.97	960.	1246	0.	1	96	FRI	19
SAT	20	80	2819.	8.89	977.	1246	0.	1	96	SAT	20
SUN	21	81	3090.	9.75	974.	1146	0.	16	96	SUN	21
MON	22	82	2091.	6.60	991.	1046	0.	46	96	MON	22
TUE	23	83	2802.	8.84	952.	1201	0.	16	96	TUE	23
WED	24	84	2883.	9.10	961.	1146	0.	1	96	WED	24
THU	25	85	1749.	5.52	744.	1301	0.	16	96	THU	25
FRI	26	86	2974.	9.38	960.	1046	0.	1	96	FRI	26
SAT	27	87	2762.	8.71	983.	1131	0.	1	96	SAT	27
SUN	28	88	2813.	8.87	969.	1116	0.	1	96	SUN	28
MON	29	89	3014.	9.51	984.	1201	0.	1	96	MON	29
TUE	30	90	3265.	10.30	1005.	1131	0.	1	96	TUE	30
WED	31	91	2754.	8.69	968.	1101	0.	1	96	WED	31

MONTHLY STATISTICS

MEAN = 7.20 KWH/SQ M , 2283. BTU/SQ FT
 TOTAL ENERGY FOR MONTH = 223.25 KWH/SQ M
 = 70771. BTU/SQ FT

MAXIMUM FOR MONTH 1036. ON FRI 12 AT 1131 HOURS
 MINIMUM FOR MONTH 0. ON MON 1 AT 1 HOURS
 NUMBER OF OBSERVATIONS = 2976

MONTHLY SOLAR DURATION CURVE FOR MARCH, 1976
 BARSTOW, CALIF. --DIRECT INSOL'TN --WATTS/ SQ METER

ACCOUNT = 7295561
 CHANNEL = 2

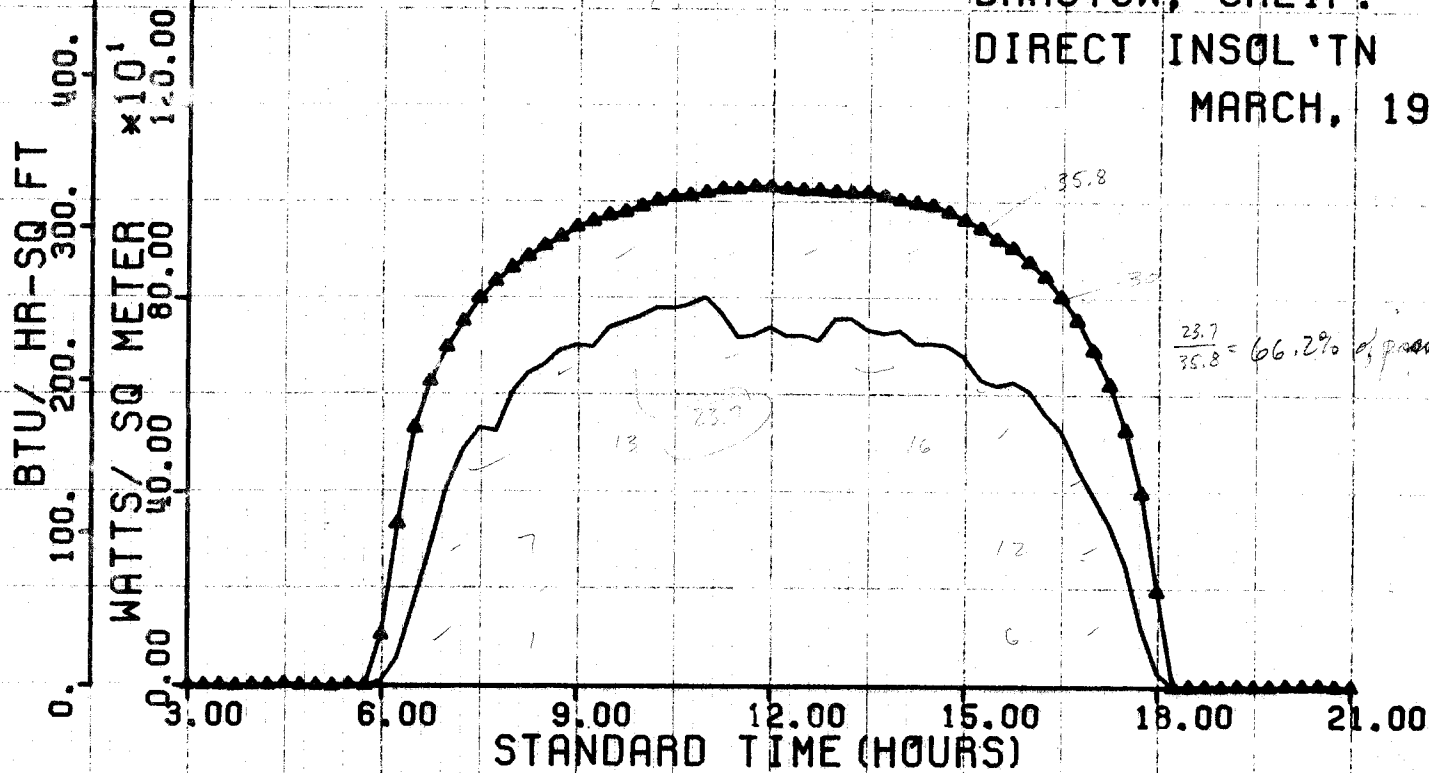
KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS	KWH/DAY-SQ M	DAYS	PERCENT DAYS
ABOVE 12.1	0	0.0	8.0	16	51.6	3.9	27	87.1
12.0	0	0.0	7.9	16	51.6	3.8	27	87.1
11.9	0	0.0	7.8	16	51.6	3.7	28	90.3
11.8	0	0.0	7.7	16	51.6	3.6	29	93.5
11.7	0	0.0	7.6	17	54.8	3.5	29	93.5
11.6	0	0.0	7.5	18	58.1	3.4	29	93.5
11.5	0	0.0	7.4	19	61.3	3.3	29	93.5
11.4	0	0.0	7.3	19	61.3	3.2	29	93.5
11.3	0	0.0	7.2	19	61.3	3.1	29	93.5
11.2	0	0.0	7.1	19	61.3	3.0	29	93.5
11.1	0	0.0	7.0	19	61.3	2.9	30	96.8
11.0	0	0.0	6.9	19	61.3	2.8	30	96.8
10.9	0	0.0	6.8	19	61.3	2.7	31	100.0
10.8	0	0.0	6.7	19	61.3	2.6	31	100.0
10.7	0	0.0	6.6	19	61.3	2.5	31	100.0
10.6	0	0.0	6.5	20	64.5	2.4	31	100.0
10.5	0	0.0	6.4	20	64.5	2.3	31	100.0
10.4	0	0.0	6.3	21	67.7	2.2	31	100.0
10.3	1	3.2	6.2	21	67.7	2.1	31	100.0
10.2	1	3.2	6.1	21	67.7	2.0	31	100.0
10.1	1	3.2	6.0	21	67.7	1.9	31	100.0
10.0	1	3.2	5.9	21	67.7	1.8	31	100.0
9.9	1	3.2	5.8	21	67.7	1.7	31	100.0
9.8	1	3.2	5.7	21	67.7	1.6	31	100.0
9.7	1	3.2	5.6	21	67.7	1.5	31	100.0
9.6	1	3.2	5.5	22	71.0	1.4	31	100.0
9.5	1	3.2	5.4	22	71.0	1.3	31	100.0
9.4	1	3.2	5.3	23	74.2	1.2	31	100.0
9.3	1	3.2	5.1	23	74.2	1.1	31	100.0
9.2	1	3.2	5.0	23	74.2	1.0	31	100.0
9.1	1	3.2	4.9	23	74.2	0.9	31	100.0
9.0	1	3.2	4.9	24	77.4	0.8	31	100.0
8.9	1	3.2	4.7	24	77.4	0.7	31	100.0
8.8	1	3.2	4.7	24	77.4	0.6	31	100.0
8.7	1	3.2	4.6	24	77.4	0.5	31	100.0
8.6	1	3.2	4.5	25	80.6	0.4	31	100.0
8.5	1	3.2	4.4	25	80.6	0.3	31	100.0
8.4	1	3.2	4.3	25	80.6	0.2	31	100.0
8.3	1	3.2	4.2	25	80.6	0.1	31	100.0
8.2	1	3.2	4.1	26	83.9	0.0	31	100.0
8.1	1	3.2	4.0	27	87.1	0.0	31	100.0

DAILY PROFILE

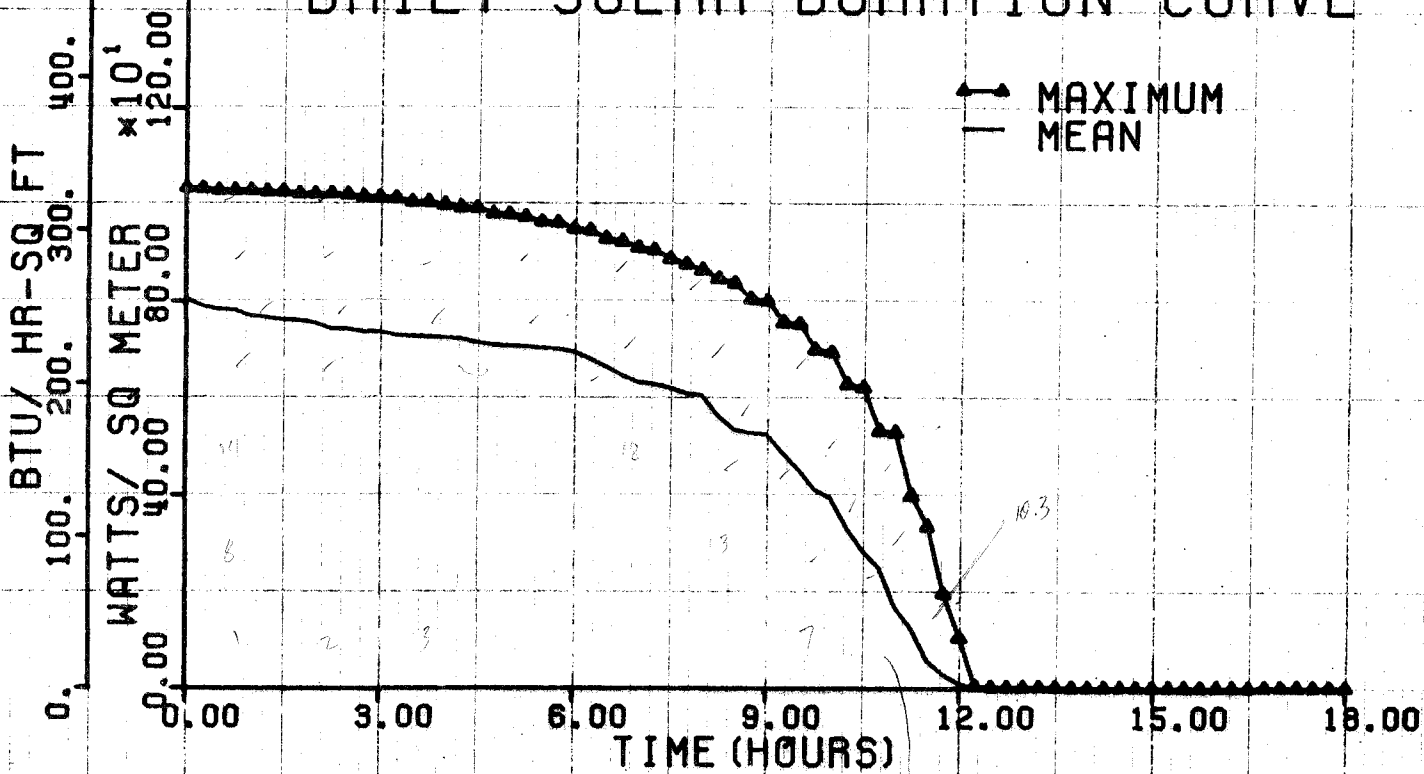
BARSTON, CALIF.

DIRECT INSOL'TN

MARCH, 1976



DAILY SOLAR DURATION CURVE



DAILY PROFILE
 DETAILED STATISTICAL SUMMARY FOR MARCH, 1976
 BARSTOW, CALIF. --DIRECT INSOL'TN --WATTS/ SQ METER

ACCOUNT = 7295561
 CHANNEL = 2

INT	INTERVAL FROM TO	-----MEAN----- BTU/HR/ SQ FT	W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
1	1 15	0.	0.	1.	2.	22	0.	1	31	1 15	1
2	16 30	0.	0.	0.	1.	1	0.	3	31	16 30	2
3	31 45	0.	0.	1.	2.	24	0.	1	31	31 45	3
4	46 100	0.	0.	1.	2.	31	0.	1	31	46 100	4
5	101 115	0.	1.	1.	2.	15	0.	1	31	101 115	5
6	116 130	0.	0.	1.	2.	7	0.	1	31	116 130	6
7	131 145	0.	1.	1.	3.	23	0.	1	31	131 145	7
8	146 200	0.	1.	1.	3.	30	0.	1	31	146 200	8
9	201 215	0.	1.	1.	2.	7	0.	1	31	201 215	9
10	216 230	0.	0.	0.	1.	1	0.	2	31	216 230	10
11	231 245	0.	1.	1.	2.	4	0.	1	31	231 245	11
12	246 300	0.	0.	0.	2.	12	0.	1	31	246 300	12
13	301 315	0.	0.	1.	2.	12	0.	3	31	301 315	13
14	316 330	0.	0.	1.	2.	7	0.	1	31	316 330	14
15	331 345	0.	0.	0.	1.	5	0.	1	31	331 345	15
16	346 400	0.	0.	1.	3.	12	0.	1	31	346 400	16
17	401 415	0.	0.	1.	2.	14	0.	2	31	401 415	17
18	416 430	0.	0.	1.	5.	30	0.	1	31	416 430	18
19	431 445	0.	0.	1.	2.	30	0.	1	31	431 445	19
20	446 500	0.	0.	0.	2.	6	0.	1	31	446 500	20
21	501 515	0.	0.	0.	1.	3	0.	1	31	501 515	21
22	516 530	0.	0.	1.	3.	23	0.	3	31	516 530	22
23	531 545	0.	0.	0.	1.	7	0.	1	31	531 545	23
24	546 600	3.	11.	27.	106.	30	0.	2	31	546 600	24
25	601 615	18.	58.	97.	336.	30	0.	1	31	601 615	25
26	616 630	53.	168.	166.	534.	30	0.	1	31	616 630	26
27	631 645	91.	286.	190.	631.	30	0.	5	31	631 645	27
28	646 700	131.	413.	205.	701.	30	1.	17	31	646 700	28
29	701 715	155.	489.	224.	754.	30	1.	5	31	701 715	29
30	716 730	170.	536.	253.	802.	30	1.	17	31	716 730	30
31	731 745	167.	528.	286.	839.	30	2.	10	31	731 745	31
32	746 800	193.	608.	271.	866.	30	3.	16	31	746 800	32

INT	INTERVAL FROM TO	-----MEAN----- BTU/HR/ SQ FT	W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
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DETAILED STATISTICAL SUMMARY FOR MARCH, 1976 (CON'T) ACCOUNT = 7295561
 CHANNEL = 2

INT	INTERVAL FROM TO	-----MEAN----- BTU/HR/ SQ FT	W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
33	801 815	206.	649.	259.	889.	13	4.	16	31	801 815	33
34	816 830	211.	667.	269.	912.	13	28.	16	31	816 830	34
35	831 845	221.	697.	250.	931.	13	69.	16	31	831 845	35
36	846 900	224.	707.	273.	951.	13	85.	19	31	846 900	36
37	901 915	223.	702.	305.	963.	13	42.	3	31	901 915	37
38	916 930	236.	743.	277.	976.	13	61.	19	31	916 930	38
39	931 945	239.	755.	259.	982.	13	108.	19	31	931 945	39
40	946 1000	243.	767.	267.	994.	12	103.	16	31	946 1000	40
41	1001 1015	248.	784.	273.	100.	12	14.	17	31	1001 1015	41
42	1016 1030	248.	783.	277.	1011.	12	19.	17	31	1016 1030	42
43	1031 1045	251.	791.	277.	1017.	12	26.	17	31	1031 1045	43
44	1046 1100	255.	806.	264.	1023.	12	42.	16	31	1046 1100	44
45	1101 1115	244.	770.	299.	1031.	12	61.	17	31	1101 1115	45
46	1116 1130	229.	722.	358.	1031.	12	8.	17	31	1116 1130	46
47	1131 1145	231.	728.	312.	1036.	12	144.	16	31	1131 1145	47
48	1146 1200	236.	744.	307.	1035.	12	118.	3	31	1146 1200	48
49	1201 1215	230.	724.	339.	1031.	12	26.	1	31	1201 1215	49
50	1216 1230	230.	727.	340.	1028.	12	1.	8	31	1216 1230	50
51	1231 1245	227.	715.	350.	1028.	12	10.	2	31	1231 1245	51
52	1246 1300	241.	761.	318.	1024.	12	55.	18	31	1246 1300	52
53	1301 1315	241.	762.	330.	1023.	12	0.	1	31	1301 1315	53
54	1316 1330	234.	738.	349.	1023.	12	2.	2	31	1316 1330	54
55	1331 1345	231.	730.	339.	1016.	12	1.	1	31	1331 1345	55
56	1346 1400	233.	736.	309.	1007.	12	1.	1	31	1346 1400	56
57	1401 1415	225.	709.	307.	1000.	12	2.	1	31	1401 1415	57
58	1416 1430	225.	709.	298.	995.	12	2.	1	31	1416 1430	58
59	1431 1445	223.	704.	314.	981.	12	3.	1	31	1431 1445	59
60	1446 1500	216.	682.	307.	965.	12	1.	1	31	1446 1500	60
61	1501 1515	201.	634.	318.	947.	12	0.	1	31	1501 1515	61
62	1516 1530	198.	624.	289.	925.	12	0.	10	31	1516 1530	62
63	1531 1545	200.	632.	273.	907.	12	0.	1	31	1531 1545	63
64	1546 1600	194.	612.	267.	878.	12	0.	1	31	1546 1600	64
65	1601 1615	179.	565.	267.	848.	12	0.	10	31	1601 1615	65
66	1616 1630	168.	529.	255.	806.	12	0.	10	31	1616 1630	66
67	1631 1645	144.	454.	239.	757.	12	0.	10	31	1631 1645	67
68	1646 1700	125.	395.	224.	696.	30	0.	10	31	1646 1700	68

INT	INTERVAL FROM TO	-----MEAN----- BTU/HR/ SQ FT	W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
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DETAILED STATISTICAL SUMMARY FOR MARCH, 1976 (CON'T)

ACCOUNT = 7295561
CHANNEL = 2

INT	INTERVAL FROM TO	MEAN BTU/HR/SQ FT	MEAN W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
69	1701 1715	106.	333.	198.	623.	30	0.	10	31	1701 1715	69
70	1716 1730	80.	252.	157.	531.	30	0.	22	31	1716 1730	70
71	1731 1745	39.	124.	113.	400.	30	0.	1	31	1731 1745	71
72	1746 1800	9.	29.	44.	197.	30	0.	1	31	1746 1800	72
73	1801 1815	0.	0.	0.	1.	1	0.	2	31	1801 1815	73
74	1816 1830	0.	0.	0.	1.	5	0.	1	31	1816 1830	74
75	1831 1845	0.	0.	0.	1.	10	0.	1	31	1831 1845	75
76	1846 1900	0.	0.	0.	0.	1	0.	1	31	1846 1900	76
77	1901 1915	0.	0.	0.	1.	1	0.	3	31	1901 1915	77
78	1916 1930	0.	0.	0.	0.	1	0.	1	31	1916 1930	78
79	1931 1945	0.	0.	0.	1.	2	0.	1	31	1931 1945	79
80	1946 2000	0.	0.	0.	2.	22	0.	1	31	1946 2000	80
81	2001 2015	0.	0.	0.	2.	26	0.	1	31	2001 2015	81
82	2016 2030	0.	0.	1.	3.	5	0.	1	31	2016 2030	82
83	2031 2045	0.	0.	0.	1.	3	0.	1	31	2031 2045	83
84	2046 2100	0.	0.	0.	1.	11	0.	1	31	2046 2100	84
85	2101 2115	0.	0.	0.	1.	1	0.	2	31	2101 2115	85
86	2116 2130	0.	0.	0.	2.	13	0.	1	31	2116 2130	86
87	2131 2145	0.	0.	1.	2.	13	0.	1	31	2131 2145	87
88	2146 2200	0.	0.	0.	1.	8	0.	1	31	2146 2200	88
89	2201 2215	0.	0.	0.	2.	13	0.	1	31	2201 2215	89
90	2216 2230	0.	0.	1.	2.	17	0.	1	31	2216 2230	90
91	2231 2245	0.	0.	0.	1.	1	0.	2	31	2231 2245	91
92	2246 2300	0.	0.	0.	1.	1	0.	2	31	2246 2300	92
93	2301 2315	0.	0.	0.	1.	1	0.	3	31	2301 2315	93
94	2316 2330	0.	0.	0.	1.	3	0.	1	31	2316 2330	94
95	2331 2345	0.	0.	0.	1.	4	0.	1	31	2331 2345	95
96	2346 2400	0.	0.	0.	1.	2	0.	1	31	2346 2400	96

INT	INTERVAL FROM TO	MEAN BTU/HR/SQ FT	MEAN W/SQ M	STAND DEV	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
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MONTHLY STATISTICS

MEAN = 7.20 KWH/SQ M , 2283. BTU/SQ FT

MAXIMUM FOR MONTH 1036. FROM 1131 TO 1145 FRI 12

TOTAL ENERGY FOR MONTH = 223.25 KWH/SQ M
= 70771. BTU/SQ FT

MINIMUM FOR MONTH 0. FROM 1 TO 15 MON 1

NUMBER OF OBSERVATIONS = 2976

MEAN DAILY SOLAR DURATION CURVE FOR MARCH, 1976
BARSTOW, CALIF. --DIRECT INSOL'TN --WATTS/ SQ METER

ACCOUNT = 7295561
CHANNEL = 2

WATTS/SQ M	HOURS	PERCENT HOURS	WATTS/SQ M	HOURS	PERCENT HOURS	WATTS/SQ M	HOURS	PERCENT HOURS
ABOVE 1210.	0.0	0.0	800.	0.25	1.0	390.	10.25	42.7
1200.	0.0	0.0	790.	0.50	2.1	380.	10.25	42.7
1190.	0.0	0.0	780.	1.00	4.2	370.	10.25	42.7
1180.	0.0	0.0	770.	1.25	5.2	360.	10.25	42.7
1170.	0.0	0.0	760.	2.00	8.3	350.	10.25	42.7
1160.	0.0	0.0	750.	2.25	9.4	340.	10.25	42.7
1150.	0.0	0.0	740.	2.75	11.5	330.	10.50	43.8
1140.	0.0	0.0	730.	3.25	13.5	320.	10.50	43.8
1130.	0.0	0.0	720.	4.50	18.8	310.	10.50	43.8
1120.	0.0	0.0	710.	4.75	19.8	300.	10.50	43.8
1110.	0.0	0.0	700.	6.00	25.0	290.	10.50	43.8
1100.	0.0	0.0	690.	6.25	26.0	280.	10.75	44.8
1090.	0.0	0.0	680.	6.50	27.1	270.	10.75	44.8
1080.	0.0	0.0	670.	6.50	27.1	260.	10.75	44.8
1070.	0.0	0.0	660.	6.75	28.1	250.	11.00	45.8
1060.	0.0	0.0	650.	6.75	28.1	240.	11.00	45.8
1050.	0.0	0.0	640.	7.00	29.2	230.	11.00	45.8
1040.	0.0	0.0	630.	7.50	31.3	220.	11.00	45.8
1030.	0.0	0.0	620.	7.75	32.3	210.	11.00	45.8
1020.	0.0	0.0	610.	8.00	33.3	200.	11.00	45.8
1010.	0.0	0.0	600.	8.25	34.4	190.	11.00	45.8
1000.	0.0	0.0	590.	8.25	34.4	180.	11.00	45.8
990.	0.0	0.0	580.	8.25	34.4	170.	11.00	45.8
980.	0.0	0.0	570.	8.25	34.4	160.	11.25	46.9
970.	0.0	0.0	560.	8.50	35.4	150.	11.25	46.9
960.	0.0	0.0	550.	8.50	35.4	140.	11.25	46.9
950.	0.0	0.0	540.	8.50	35.4	130.	11.25	46.9
940.	0.0	0.0	530.	8.75	36.5	120.	11.50	47.9
930.	0.0	0.0	520.	9.25	38.5	110.	11.50	47.9
920.	0.0	0.0	510.	9.25	38.5	100.	11.50	47.9
910.	0.0	0.0	500.	9.25	38.5	90.	11.50	47.9
900.	0.0	0.0	490.	9.25	38.5	80.	11.50	47.9
890.	0.0	0.0	480.	9.50	39.6	70.	11.50	47.9
880.	0.0	0.0	470.	9.50	39.6	60.	11.50	47.9
870.	0.0	0.0	460.	9.50	39.6	50.	11.75	49.0
860.	0.0	0.0	450.	9.75	40.6	40.	11.75	49.0
850.	0.0	0.0	440.	9.75	40.6	30.	11.75	49.0
840.	0.0	0.0	430.	9.75	40.6	20.	12.00	50.0
830.	0.0	0.0	420.	9.75	40.6	10.	12.25	51.0
820.	0.0	0.0	410.	10.00	41.7	0.	24.00	100.0
810.	0.0	0.0	400.	10.00	41.7			

INTERRUPTIONS

DETAILED DISTRIBUTION FOR MARCH, 1976

ACCOUNT = 7295561
CHANNEL = 2

BARSTOW, CALIF. --DIRECT INSOL'TN --WATTS/ SQ METER

LENGTH OF INTERR. (HOURS)	NUMBER OF INTERR.	LENGTH OF INTERR. (HOURS)	NUMBER OF INTERR.	LENGTH OF INTERR. (HOURS)	NUMBER OF INTERR.
.25	10	.25	0	.25	0
.50	8	.50	0	.50	0
.75	5	.75	0	.75	0
1.00	5	6.00	1	11.00	0
.25	2	.25	0	.25	0
.50	0	.50	0	.50	0
.75	2	.75	0	.75	0
2.00	1	7.00	0	12.00	0
.25	3	.25	0	.25	0
.50	0	.50	0	.50	0
.75	0	.75	0	.75	0
3.00	0	8.00	0	13.00	0
.25	0	.25	0	.25	0
.50	1	.50	0	.50	0
.75	0	.75	0	.75	0
4.00	0	9.00	0	14.00	0
.25	1	.25	0	.25	0
.50	0	.50	0	.50	0
.75	1	.75	0	.75	0
5.00	1	10.00	0	15.00	0

175

THE TOTAL NUMBER OF INTERRUPTIONS OF ANY LENGTH FOR THE MONTH 41

THE ANALYSIS WAS PERFORMED ON 2976 OF A POSSIBLE 2976 OBSERVATIONS FOR THE MONTH

NOTE: AN INTERRUPTION IS DEFINED AS THAT CONTINUOUS SPAN OF TIME, MEASURED IN 15-MINUTE INTERVALS, DURING WHICH THE INSOLATION FALLS BELOW FIFTY PERCENT OF THE MONTHLY MEAN VALUE FOR THE TIME INTERVAL UNDER CONSIDERATION. THE ANALYSIS IS PERFORMED ON THOSE TIME INTERVALS FOR WHICH THE MONTHLY MEAN EXCEEDS 400 W/SQ M. THIS IS NOT A CUMULATIVE DISTRIBUTION.

DRY BULB TEMPERATURE

MONTHLY DISTRIBUTION

DETAILED STATISTICAL SUMMARY FOR MARCH, 1976
 BARSTOW, CALIF. --DRY BULB TEMP. --DEGREES FAHR.

ACCOUNT = 7295561
 CHANNEL = 3

DAY	DATE	DAY OF YEAR	MEAN	STAND DEVIATION	MAXIMUM VALUE	TIME OF MAX	MINIMUM VALUE	TIME OF MIN	NUM OF OBSERV	DAY	DATE
MON	1	61	53.7	5.7	62.8	1101	41.5	2346	96	MON	1
TUE	2	62	44.0	5.4	53.3	1446	35.1	616	96	TUE	2
WED	3	63	39.8	4.0	47.0	1546	33.4	916	96	WED	3
THU	4	64	43.2	8.1	59.1	1516	30.1	601	96	THU	4
FRI	5	65	47.5	5.6	57.1	1346	39.9	531	96	FRI	5
SAT	6	66	50.5	6.9	63.0	1401	41.3	331	96	SAT	6
SUN	7	67	50.5	10.9	67.4	1601	34.9	531	96	SUN	7
MON	8	68	52.7	8.2	64.0	1516	37.9	616	96	MON	8
TUE	9	69	52.3	10.2	67.0	1401	36.8	601	96	TUE	9
WED	10	70	51.4	7.0	65.9	1331	42.4	516	96	WED	10
THU	11	71	55.2	7.5	69.6	1401	47.1	2346	96	THU	11
FRI	12	72	53.1	7.1	65.0	1346	43.0	2331	96	FRI	12
SAT	13	73	53.3	13.3	75.3	1431	33.5	531	96	SAT	13
SUN	14	74	59.0	11.7	79.4	1546	41.9	501	96	SUN	14
MON	15	75	59.8	11.1	75.9	1546	43.3	601	96	MON	15
TUE	16	76	61.3	10.0	76.8	1446	47.9	601	96	TUE	16
WED	17	77	66.9	12.5	86.4	1331	51.0	331	96	WED	17
THU	18	78	63.0	9.1	80.1	1401	51.5	601	96	THU	18
FRI	19	79	53.7	6.7	67.1	1446	44.3	2346	96	FRI	19
SAT	20	80	52.5	10.3	67.5	1601	35.4	601	96	SAT	20
SUN	21	81	57.6	13.6	76.4	1446	38.8	446	96	SUN	21
MON	22	82	61.9	13.8	82.1	1316	41.0	501	96	MON	22
TUE	23	83	65.1	9.6	81.0	1431	51.4	446	96	TUE	23
WED	24	84	64.2	12.4	84.4	1401	46.5	531	96	WED	24
THU	25	85	58.9	7.6	72.1	1331	47.3	616	96	THU	25
FRI	26	86	57.9	8.9	73.4	1631	42.3	546	96	FRI	26
SAT	27	87	55.3	6.3	66.8	1316	47.3	2346	96	SAT	27
SUN	28	88	53.1	7.1	65.3	1501	42.6	531	96	SUN	28
MON	29	89	56.1	9.8	70.5	1546	41.0	501	96	MON	29
TUE	30	90	58.1	9.4	72.1	1446	42.4	346	96	TUE	30
WED	31	91	62.4	13.6	83.0	1416	42.1	546	96	WED	31

DAY	DATE	DAY OF YEAR	MEAN	STAND DEVIATION	MAXIMUM VALUE	TIME OF MAX	MINIMUM VALUE	TIME OF MIN	NUM OF OBSERV	DAY	DATE
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MONTHLY STATISTICS

MEAN = 55.3

STAND DEVIATION = 11.4

NUMBER OF OBSERVATIONS = 2976

MAXIMUM FOR MONTH 86.4 ON WED 17 AT 1331 HOURS

MINIMUM FOR MONTH 30.1 ON THU 4 AT 601 HOURS

DAILY PROFILE

DETAILED STATISTICAL SUMMARY FOR MARCH, 1976
 BARSTOW, CALIF. --DRY BULB TEMP. --DEGREES FAHR.

ACCOUNT = 7295561
 CHANNEL = 3

INT NUM	INTERVAL FROM TO	MEAN	STANDARD DEVIATION	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
1	1 15	48.7	5.7	60.5	18	36.9	4	31	1 15	1
2	16 30	48.3	5.6	59.8	18	37.0	4	31	16 30	2
3	31 45	48.0	5.5	58.6	18	37.0	4	31	31 45	3
4	46 100	47.7	5.7	58.0	18	36.5	3	31	46 100	4
5	101 115	47.4	5.7	57.9	18	35.3	3	31	101 115	5
6	116 130	47.1	5.6	57.9	18	36.0	3	31	116 130	6
7	131 145	46.8	5.6	57.4	23	36.6	4	31	131 145	7
8	146 200	46.7	5.5	56.9	23	36.5	4	31	146 200	8
9	201 215	46.5	5.4	56.8	18	36.4	4	31	201 215	9
10	216 230	46.1	5.4	56.6	18	35.8	4	31	216 230	10
11	231 245	45.9	5.5	57.1	23	35.5	4	31	231 245	11
12	246 300	45.6	5.6	57.5	23	35.4	4	31	246 300	12
13	301 315	45.4	5.6	56.9	23	34.6	4	31	301 315	13
14	316 330	45.1	5.6	56.6	23	34.5	4	31	316 330	14
15	331 345	44.8	5.5	56.4	23	33.9	4	31	331 345	15
16	346 400	44.5	5.6	56.1	23	33.1	4	31	346 400	16
17	401 415	44.3	5.5	54.4	23	32.6	4	31	401 415	17
18	416 430	44.1	5.4	53.0	18	32.5	4	31	416 430	18
19	431 445	43.9	5.4	52.3	18	32.1	4	31	431 445	19
20	446 500	43.6	5.4	52.0	18	31.6	4	31	446 500	20
21	501 515	43.4	5.5	52.5	18	31.8	4	31	501 515	21
22	516 530	43.3	5.6	53.5	23	31.5	4	31	516 530	22
23	531 545	43.2	5.7	53.6	23	30.9	4	31	531 545	23
24	546 600	43.1	5.8	53.8	23	30.4	4	31	546 600	24
25	601 615	43.0	5.9	53.5	23	30.1	4	31	601 615	25
26	616 630	43.4	6.0	54.4	23	30.3	4	31	616 630	26
27	631 645	44.0	6.2	55.0	23	30.4	4	31	631 645	27
28	646 700	44.9	6.1	56.4	23	31.5	4	31	646 700	28
29	701 715	45.8	6.1	58.9	23	32.6	4	31	701 715	29
30	716 730	46.9	6.1	60.0	23	34.0	4	31	716 730	30
31	731 745	47.9	6.0	59.6	23	35.4	4	31	731 745	31
32	746 800	49.1	6.0	62.3	23	37.0	4	31	746 800	32

INT NUM	INTERVAL FROM TO	MEAN	STANDARD DEVIATION	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
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DETAILED STATISTICAL SUMMARY FOR MARCH, 1976 (CON'T)

ACCOUNT = 7295561
CHANNEL = 3

INT NUM	INTERVAL FROM TO	MEAN	STANDARD DEVIATION	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
33	801 815	50.5	6.0	63.8	23	38.4	4	31	801 815	33
34	816 830	51.7	6.2	65.0	23	38.9	4	31	816 830	34
35	831 845	52.8	6.3	66.4	18	39.4	3	31	831 845	35
36	846 900	54.2	6.5	67.4	18	39.6	3	31	846 900	36
37	901 915	55.4	6.7	67.9	18	40.3	3	31	901 915	37
38	916 930	56.2	7.6	69.3	18	33.4	3	31	916 930	38
39	931 945	57.4	7.0	69.8	18	40.8	3	31	931 945	39
40	946 1000	58.5	7.3	72.1	17	41.3	3	31	946 1000	40
41	1001 1015	59.6	7.5	73.3	17	41.6	3	31	1001 1015	41
42	1016 1030	60.5	7.5	73.8	17	42.5	3	31	1016 1030	42
43	1031 1045	61.3	7.7	74.6	17	43.3	3	31	1031 1045	43
44	1046 1100	62.1	7.9	75.6	17	44.4	3	31	1046 1100	44
45	1101 1115	62.9	8.0	76.8	17	44.5	3	31	1101 1115	45
46	1116 1130	63.6	8.1	77.6	17	44.6	3	31	1116 1130	46
47	1131 1145	64.1	8.2	78.5	17	44.4	3	31	1131 1145	47
48	1146 1200	64.9	8.6	80.5	17	43.6	3	31	1146 1200	48
49	1201 1215	65.4	8.8	81.6	17	43.8	3	31	1201 1215	49
50	1216 1230	65.8	8.6	80.1	17	44.9	3	31	1216 1230	50
51	1231 1245	66.4	8.9	82.0	17	45.0	3	31	1231 1245	51
52	1246 1300	67.0	8.9	83.9	17	45.1	3	31	1246 1300	52
53	1301 1315	67.5	9.1	84.5	17	45.3	3	31	1301 1315	53
54	1316 1330	67.8	9.6	86.0	17	44.6	3	31	1316 1330	54
55	1331 1345	68.2	9.5	86.4	17	44.6	3	31	1331 1345	55
56	1346 1400	68.6	9.4	85.4	17	44.9	3	31	1346 1400	56
57	1401 1415	68.8	9.5	84.8	17	44.9	3	31	1401 1415	57
58	1416 1430	69.0	9.2	84.4	24	45.6	3	31	1416 1430	58
59	1431 1445	69.2	9.1	84.8	17	46.4	3	31	1431 1445	59
60	1446 1500	69.2	9.2	85.6	17	46.1	3	31	1446 1500	60
61	1501 1515	69.1	9.3	84.8	17	45.6	3	31	1501 1515	61
62	1516 1530	69.1	9.3	86.4	17	46.1	3	31	1516 1530	62
63	1531 1545	68.8	9.2	85.8	17	46.8	3	31	1531 1545	63
64	1546 1600	68.6	9.4	86.4	17	47.0	3	31	1546 1600	64
65	1601 1615	68.0	9.4	84.8	17	45.6	3	31	1601 1615	65
66	1616 1630	67.7	9.2	84.1	17	45.9	3	31	1616 1630	66
67	1631 1645	67.2	9.2	83.9	17	45.9	3	31	1631 1645	67
68	1646 1700	66.3	9.3	82.9	17	45.1	3	31	1646 1700	68
INT NUM	INTERVAL FROM TO	MEAN	STANDARD DEVIATION	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM

DETAILED STATISTICAL SUMMARY FOR MARCH, 1976 (CON'T)

ACCOUNT = 7295561
CHANNEL = 3

INT NUM	INTERVAL FROM TO	MEAN	STANDARD DEVIATION	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM
69	1701 1715	65.4	9.4	82.4	17	44.5	3	31	1701 1715	69
70	1716 1730	64.6	9.3	81.3	17	43.9	3	31	1716 1730	70
71	1731 1745	63.5	9.2	79.9	17	43.6	3	31	1731 1745	71
72	1746 1800	62.4	9.0	78.3	17	43.1	3	31	1746 1800	72
73	1801 1815	61.4	8.7	76.8	17	42.6	3	31	1801 1815	73
74	1816 1830	60.5	8.5	75.6	17	41.5	3	31	1816 1830	74
75	1831 1845	59.6	8.2	74.0	17	40.6	3	31	1831 1845	75
76	1846 1900	58.6	7.9	72.0	17	39.9	3	31	1846 1900	76
77	1901 1915	57.8	7.7	72.0	17	39.4	3	31	1901 1915	77
78	1916 1930	57.1	7.5	71.4	17	38.9	3	31	1916 1930	78
79	1931 1945	56.5	7.4	71.3	17	38.5	3	31	1931 1945	79
80	1946 2000	56.0	7.4	70.4	17	38.4	3	31	1946 2000	80
81	2001 2015	55.4	7.4	70.4	17	37.8	3	31	2001 2015	81
82	2016 2030	54.9	7.3	69.3	17	37.9	3	31	2016 2030	82
83	2031 2045	54.4	7.0	68.3	22	38.0	3	31	2031 2045	83
84	2046 2100	53.9	6.9	67.0	22	37.9	3	31	2046 2100	84
85	2101 2115	53.4	6.8	67.1	17	37.4	3	31	2101 2115	85
86	2116 2130	53.0	6.8	67.1	17	37.3	3	31	2116 2130	86
87	2131 2145	52.6	6.6	65.9	17	37.4	3	31	2131 2145	87
88	2146 2200	52.1	6.4	64.5	17	37.1	3	31	2146 2200	88
89	2201 2215	51.6	6.2	62.8	22	37.5	3	31	2201 2215	89
90	2216 2230	51.2	6.2	62.4	17	37.5	3	31	2216 2230	90
91	2231 2245	50.8	6.3	62.6	17	37.0	3	31	2231 2245	91
92	2246 2300	50.4	6.3	61.8	31	36.6	3	31	2246 2300	92
93	2301 2315	50.0	6.0	61.3	17	36.6	3	31	2301 2315	93
94	2316 2330	49.7	5.9	60.9	17	37.0	3	31	2316 2330	94
95	2331 2345	49.4	5.9	61.6	17	36.9	3	31	2331 2345	95
96	2346 2400	49.0	5.7	61.3	17	37.0	3	31	2346 2400	96
INT NUM	INTERVAL FROM TO	MEAN	STANDARD DEVIATION	MAXIMUM VALUE	DAY OF MAX	MINIMUM VALUE	DAY OF MIN	NUM OF OBSERV	INTERVAL FROM TO	INT NUM

MONTHLY STATISTICS

MEAN = 55.3

STAND DEVIATION = 11.4

MAXIMUM FOR MONTH 86.4 FROM 1331 TO 1345 WED 17

MINIMUM FOR MONTH 30.1 FROM 601 TO 615 THU 4

NUMBER OF OBSERVATIONS = 2976