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**THERMAL PERFORMANCE TESTS OF
THE A-2H APOLLO EXTRAVEHICULAR MOBILITY UNIT**

Report Number 00.638

15 March 1965

VOLUME I

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Experiments II-a, II-b and II-c Test Report

"Space Environment Simulator Test Program"

Contract NAS 9-3414

THERMAL PERFORMANCE TESTS OF
THE A-2H APOLLO EXTRAVEHICULAR MOBILITY UNIT

Report Number 00.638

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VOLUME I

Submitted By

Astronautics Division

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FOREWORD

This report describes the results of Space Environment Simulator thermal performance tests of a prototype Apollo Extravehicular Mobility Unit (EMU). These tests were comprised of Experiments II-a, II-b and II-c which are three of twelve space suit thermal evaluation tests being performed by LTV Astronautics for the NASA Manned Spacecraft Center under Contract NAS 9-3414. The tests were performed in January, 1965 at the LTV facility in Dallas, Texas in accordance with approved test plans for the three experiments (LTV reports 00.529 and 00.551). Mr. J. C. Poradek of the NASA-MSC Systems Test Branch is the technical monitor for this contract.

This report is contained in two volumes. VOLUME I describes the three experiments and presents the results and analyses of the results. VOLUME II contains plots of temperature data measurements made during the three experiments.

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1.0 SUMMARY

Experiments II-a, II-b and II-c of NASA-MSC Contract NAS 9-3414 were performed to evaluate the performance and thermal response of an Apollo Extravehicular Mobility Unit (space suit) in space and lunar surface thermal environments. These experiments subjected a prototype Apollo EMU containing a thermal dummy to low pressure and simulated extreme thermal environments of space and the lunar surface. The principle objective of this series of tests was to determine the design adequacy of the prototype suit assembly for operation in the environmental conditions encountered in space and on the lunar surface. The specific test objectives were to determine:

- (1) Suit temperatures and pressures as a function of time, heat load, and position.
- (2) Net suit heat gain or loss as a function of time, heat load and position.
- (3) Net heat gain or loss through the visor.
- (4) Effects of suit contact with spacecraft surfaces.
- (5) Effect of suit overpressure relief valve release on the insulation by the thermal garment.
- (6) Severity of possible thermal garment rips or tears.
- (7) Suit gas leakage rates and overpressure relief valve characteristics.
- (8) Thermal adequacy of suit.

Simulation of the thermal and pressure environments during the tests included the following:

- (1) Astronaut body temperatures.
- (2) Deep space heat sink.
- (3) Solar heat flux.
- (4) Radiation from the lunar surface.
- (5) Hot and cold spacecraft surfaces.
- (6) Vacuum.
- (7) Portable Life Support System (PLSS).

Astronaut body temperatures and sensible metabolic heat output were simulated by a fiberglass and copper articulated dummy. The shell type construction of the dummy provides an outer layer of material which approximates the conductance of human skin. An electrical heater network covers

the interior of the dummy shell and the dummy surface temperatures are controlled by regulating the power to the heaters.

The radiation heat sink of space was simulated by the liquid nitrogen shroud surrounding the test section of the SES. The simulated solar heat flux was provided by a bank of Mercury-Xenon lamps installed at one surface of the test chamber. A chamber pressure of less than 5×10^{-4} mm Hg was maintained throughout the tests. Radiation from the lunar surface was approximated by a two-component simulator consisting of a vertical open cylindrical framework of 18 columns of infrared lamps acting as line sources plus a horizontal black anodized aluminum plate heated by electrical heaters. Control of the lunar simulation was accomplished by controlling the power to the infrared lamps and the electrical heaters. The simulated spacecraft surface was a section of aluminum structure which could be moved into contact with the suited dummy. The temperature of the structure was adjusted by controlling power to electrical resistance heaters attached to the structure.

The Apollo Extravehicular Mobility Unit (EMU) consists of a pressure garment assembly, an external thermal garment or coverall, and a Portable Life Support System (PLSS). The thermal garment completely covers the pressure suit except for the visor. It is constructed of superinsulation with a Dacron outerlayer and a nylon inner lining. Temperatures throughout the EMU were monitored by thermocouples attached to the dummy, inside and outside of the pressure garment, and inside and outside of the thermal garments. Visor and helmet temperatures as well as suit pressure and flow were also measured.

The results of this experiment show that the suit outer surface temperatures ranged from -230°F to $+250^{\circ}\text{F}$ at the cold and hot extremes of the test environment. The thermal garment was observed to "yellow" during these experiments, and its apparent absorptivity was observed to increase. Both the "yellowing" and change in absorptivity increased with exposure to the SES solar source and resulted in higher surface temperatures. The total suit heat leakage varied from 137 BTU/hr into the suit under maximum environmental heat loads to 135 BTU/hr out of the suit during a cold soak. The corresponding visor heat leakages were approximately 40-50 BTU/hr in and 50-60 BTU/hr out, respectively. The equivalent overall conductance varied from $0.0517 \text{ BTU/ft}^2\text{-hr-}^{\circ}\text{F}$ for high heat loads to $0.0131 \text{ BTU/ft}^2\text{-hr-}^{\circ}\text{F}$ for cold soak conditions.

Contact with either a hot or cold spacecraft surface did not produce any "hot spots" or "cold spots" on the dummy. Opening the overpressure relief valve imposed more severe conditions on the dummy and increased the heat leakage into the suit from 137 to 211 BTU/hr for maximum flux conditions. A microphone was installed in the left helmet earpiece to detect any increase in sound level in the helmet due to opening and closing of the suit overpressure relief valve. The data did not show any increase in sound level as a result of relief valve operation. Tearing the outer thermal garment created localized "hot spots" on the dummy.

The nominal suit pressure was 3.7 psia with an average pressure drop of 0.09 psi. During overpressurization the suit pressure was increased to approximately 5.6 psia maximum. Suit gas leakage varied from about 40 to 45 SCC/min during these experiments.

2.0 INTRODUCTION

Extravehicular operation in space or on the lunar surface requires protection of the astronaut from his environment. An extravehicular space suit provides protection from the near vacuum of space as well as protection from the extremes of the thermal environments. LTV Astronautics, in accordance with Contract NAS 9-3414, is engaged in a comprehensive un-manned test program to evaluate the performance of space crew equipment in a simulated space environment. The experimental test results from a series of three space suit thermal evaluation experiments conducted in the LTV Space Environment Simulator for the NASA Manned Spacecraft Center are presented in this report. These three experiments subjected a prototype Apollo Extravehicular Mobility Unit (EMU) containing a thermal dummy to the simulated low pressures and extreme temperature conditions of space and the lunar surface. These experiments were performed to evaluate the thermal performance of the suit under simulated space and lunar surface conditions.

3.0 TEST PROGRAM

3.1 TEST OBJECTIVES

The primary objective of Experiments IIa, IIb and IIc was to determine the performance and thermal response of the Apollo Extravehicular Mobility Unit during simulated extravehicular operations in space and on the lunar surface. The specific test objectives were to experimentally determine the following:

1. Suit temperatures and pressures as functions of time, environment (space or lunar surface), and suit orientation.
2. Suit net heat gain or loss as a function of time, environment (space or lunar surface) and suit orientation.
3. Net heat gain or loss through the suit visor.
4. Effects of contact with spacecraft surfaces.
5. Effect of suit overpressure relief valve operation.
6. Effect of interlayer tears.
7. Suit gas leakage rate and overpressure relief valve characteristics.
8. Thermal adequacy of suit.

3.2 DESCRIPTION OF TEST ARTICLE

The Apollo Extravehicular Mobility Unit consists basically of a pressure garment assembly, an external thermal garment or coverall and a portable life support system. The pressure garment assembly has a lightweight inner lining or comfort layer and an aluminized outer cover. Flexible, convoluted joints of single member construction are located at the shoulders, elbows and thighs. The thermal garment is donned over the pressure garment assembly and is made in two pieces: a parka with integral hood and thermal mittens and trousers with integral thermal boots. The thermal garment is constructed of superinsulation with a white Dacron outer cover and a nylon inner lining. The thermal garment completely covers the pressure garment assembly and portable life support system except for an opening at the helmet visor.

During these experiments the thermal dummy described in Section 3.3.2.1 was installed inside the pressure garment assembly to simulate manned occupancy. The dummy wore a conventional underwear garment to which thermocouples were attached as outlined in Section 3.4.1. To simulate the effects of

installation and operation of the portable life support system on suit thermal performance, a PLSS shell, in which a one kilowatt electrical heater was installed, was attached to the back of the suit.

3.3 TEST EQUIPMENT

3.3.1 TEST FACILITY

Experiments IIA, IIB and IIC were conducted in the LTV Space Environment Simulator (SES) shown in Figure 1. The SES test chamber is a horizontal cylinder with a clear working space ten feet in diameter by ten feet long. The SES provides simulated solar radiation and the vacuum and cold conditions of deep space. Lunar surface and other conditions are simulated by the specially designed and constructed equipment described in Section 3.3.2.

SES vacuum capability is provided by three 32-inch diffusion pumps backed by a diffusion ejector pump and a mechanical pump. The cold trap for the diffusion pumps is cooled by liquid nitrogen and also serves as a section of the cryowall. Figures 2 through 5 show chamber pressure versus time for each experiment. During overpressurization of the suit and release of the relief valve, the chamber pressure was maintained at a maximum of 5×10^{-4} mm Hg. by limiting the suit overpressure and resultant relief valve flow. With the relief closed, a chamber pressure of less than 4×10^{-5} mm Hg was maintained.

The heat sink conditions of space are simulated by a liquid nitrogen cooled, multifinned aluminum shroud covering the entire inner surface of the chamber except for the solar simulation entrance ports and viewing ports. The total uncooled wall area represented by these ports is less than 5% of the total shroud area. The inner surface of the shroud is finished with Minnesota Mining and Manufacturing Company series 101C-10 Black Velvet paint which has an absorptivity of approximately 0.98 in the solar spectrum.

Simulated solar radiation is supplied by twenty 2500 watt Mercury-Xenon high pressure DC arc lamps mounted outside the chamber and focused through quartz ports such that the mean flux over a six-foot plane near the center of the chamber is nearly uniform. The flux at the test plane is controllable over the range from 285 to 445, BTU/Hr. ft². Power is supplied to the solar simulator lamps by a regulated power supply capable of limiting power fluctuations to $\pm 1\%$ of the operating level.

The spectral distribution of flux from the SES solar simulator lamps is typical of Mercury-Xenon arc lamps. The spectral distribution of the lamps as installed has been measured and the results are reported in Reference 1. Table I is a tabulation of the spectral measurements obtained. The method used during the tests described in this report to compensate for the differences in the SES solar simulator spectrum and that of the sun is discussed in Section 3.6.1. The measured flux distribution at the test plane in the SES is shown in Figure 6. These measurements were obtained in a vacuum with a certified thermopile (Eppley Serial No. 5380) and a special calibration fixture for continuous horizontal scanning of the test plane at various locations along the vertical centerline.

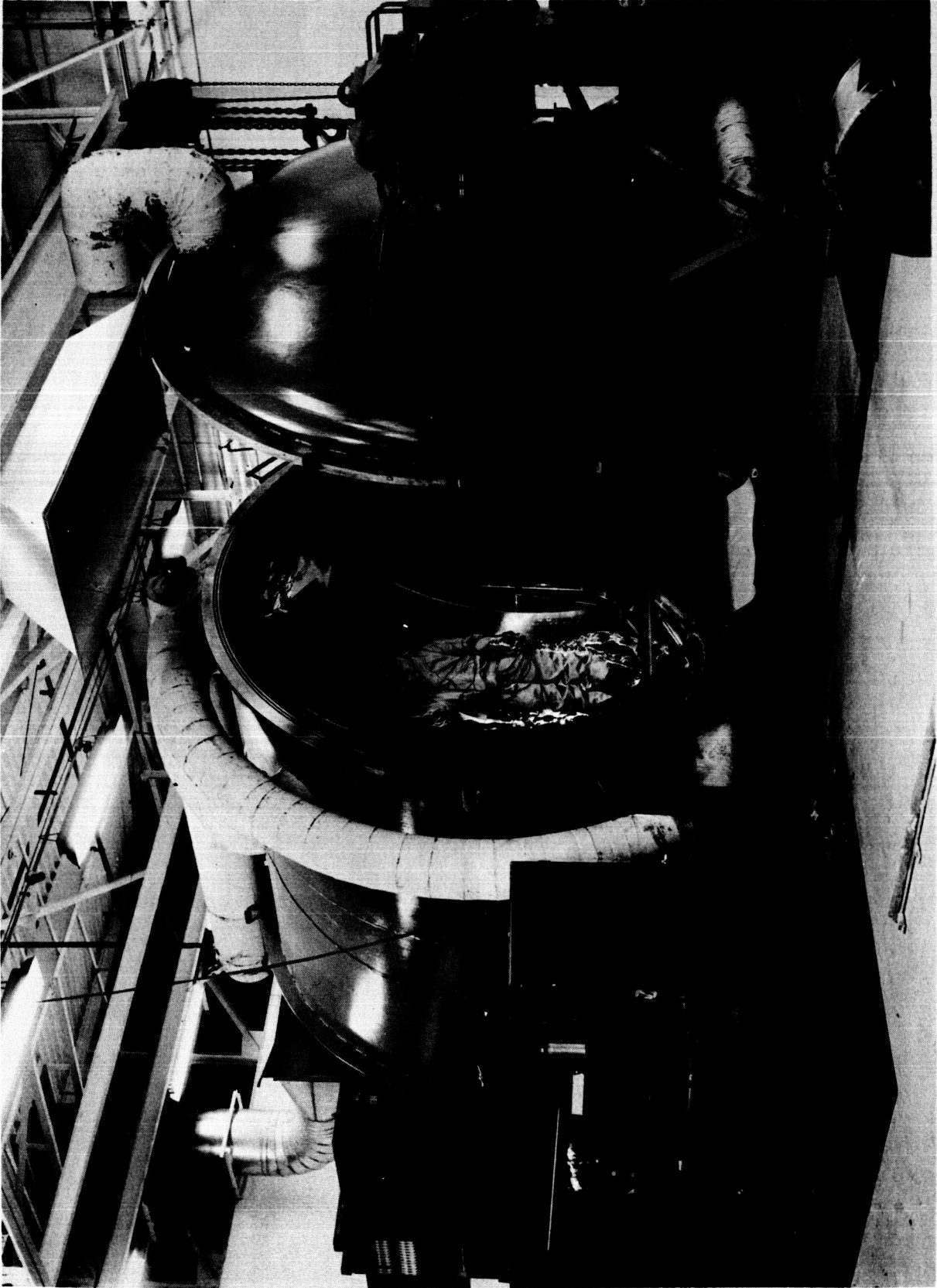


FIGURE 1 SPACE ENVIRONMENT SIMULATOR SHOWING EMU INSTALLED FOR EXPERIMENT II-A

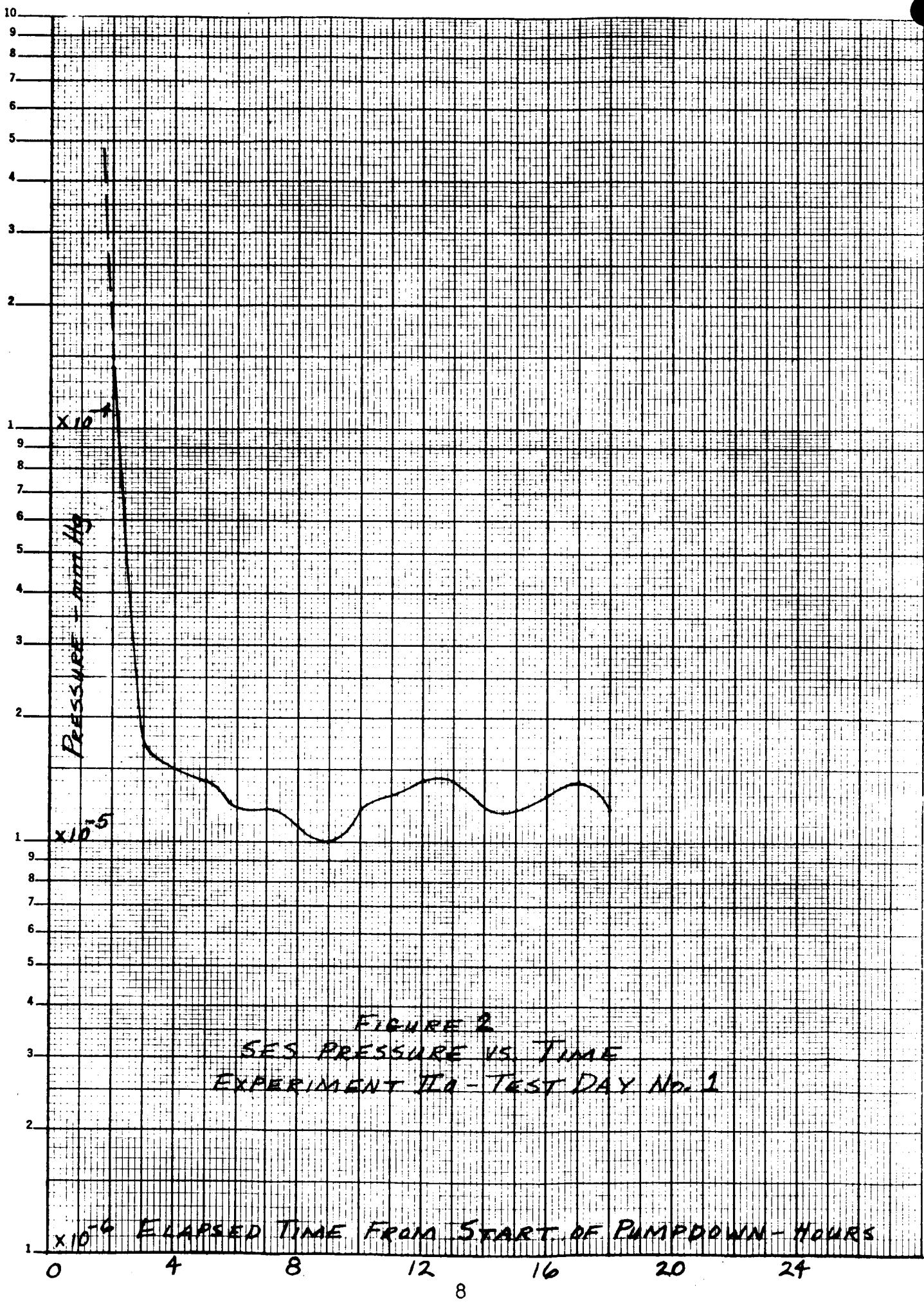


FIGURE 2
 SES PRESSURE VS. TIME
 EXPERIMENT IIA - TEST DAY No. 1

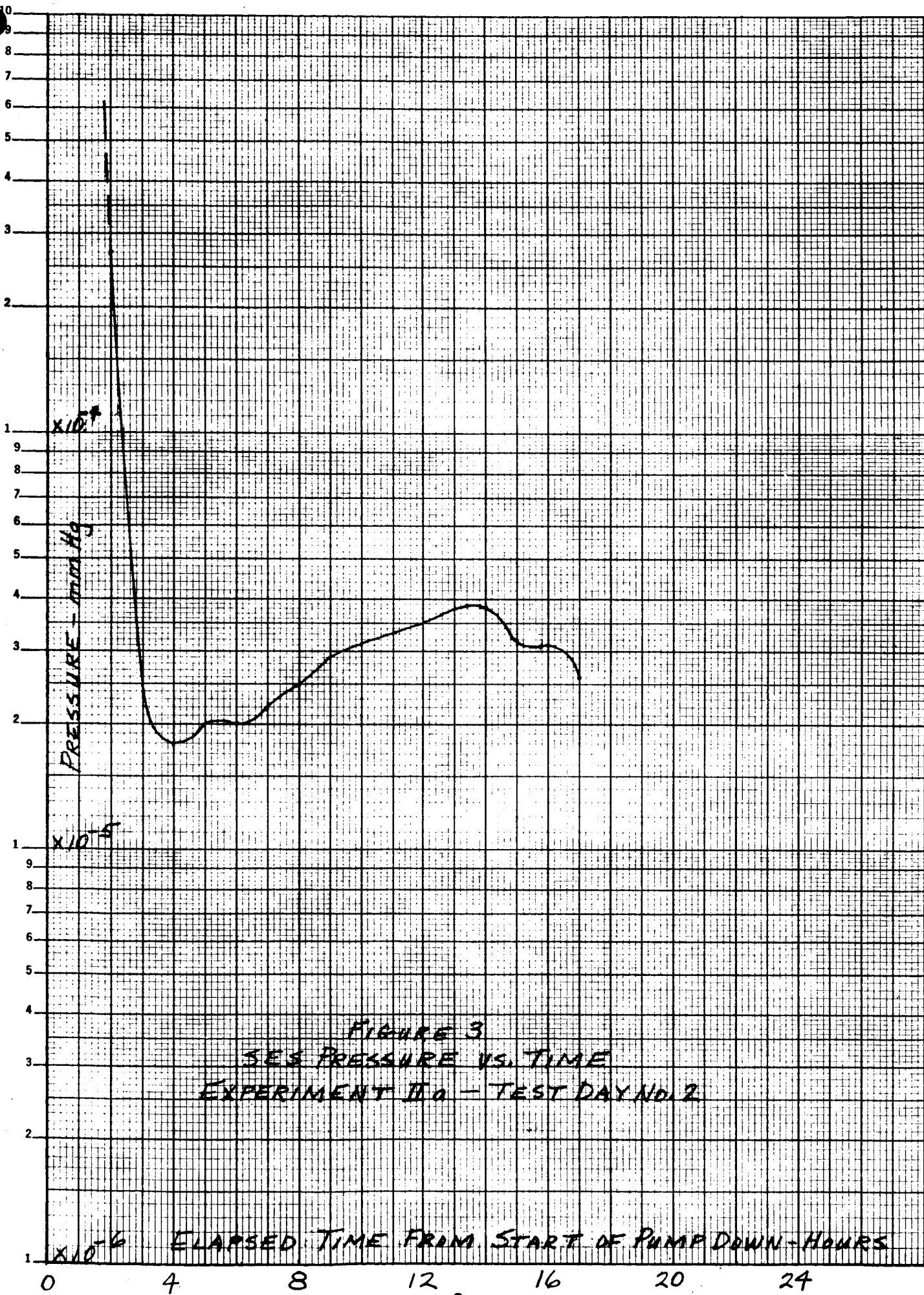


FIGURE 3
SEE PRESSURE VS. TIME
EXPERIMENT IIa - TEST DAY NO. 2

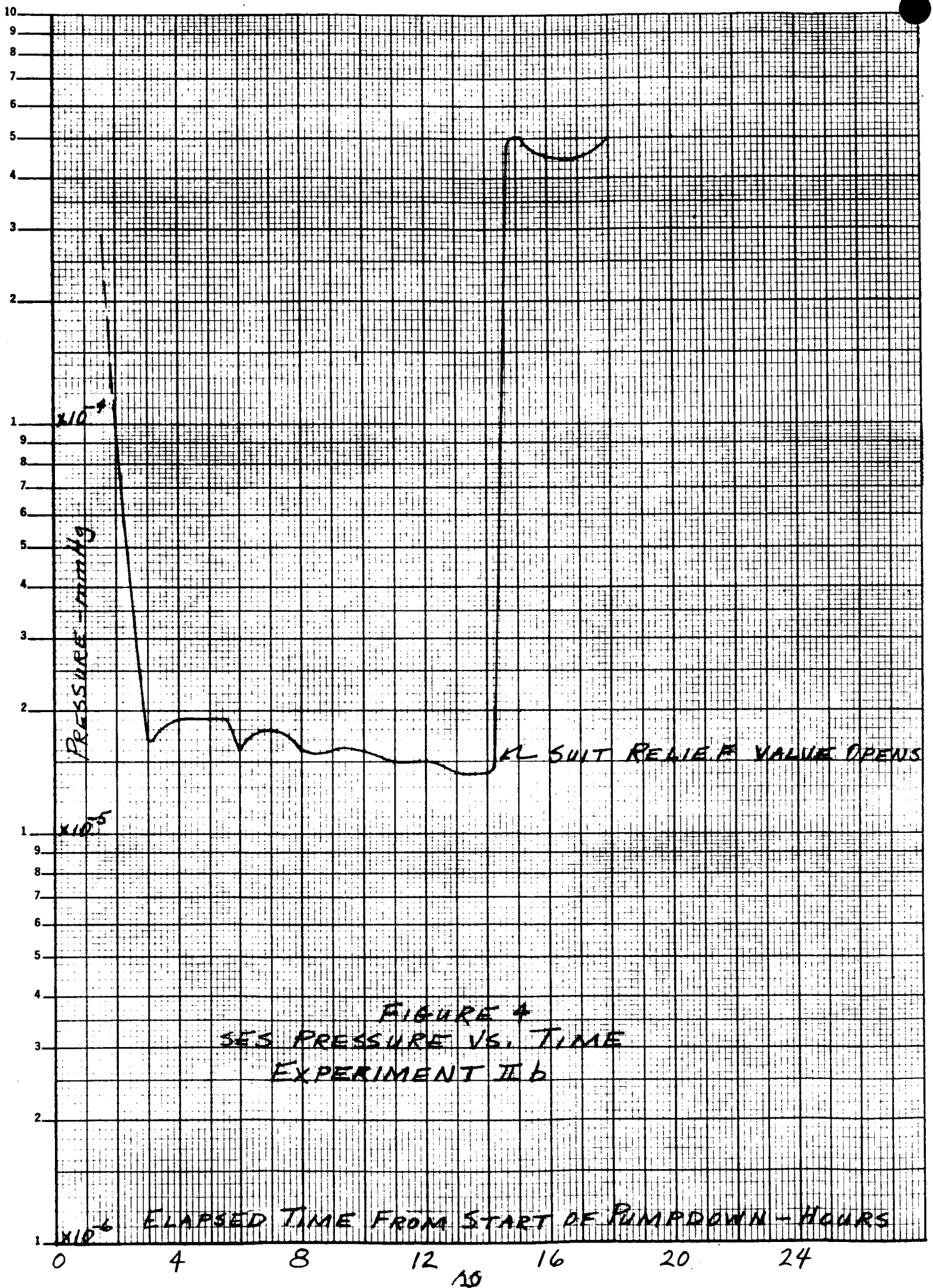


FIGURE 4
 SES PRESSURE VS. TIME
 EXPERIMENT II b

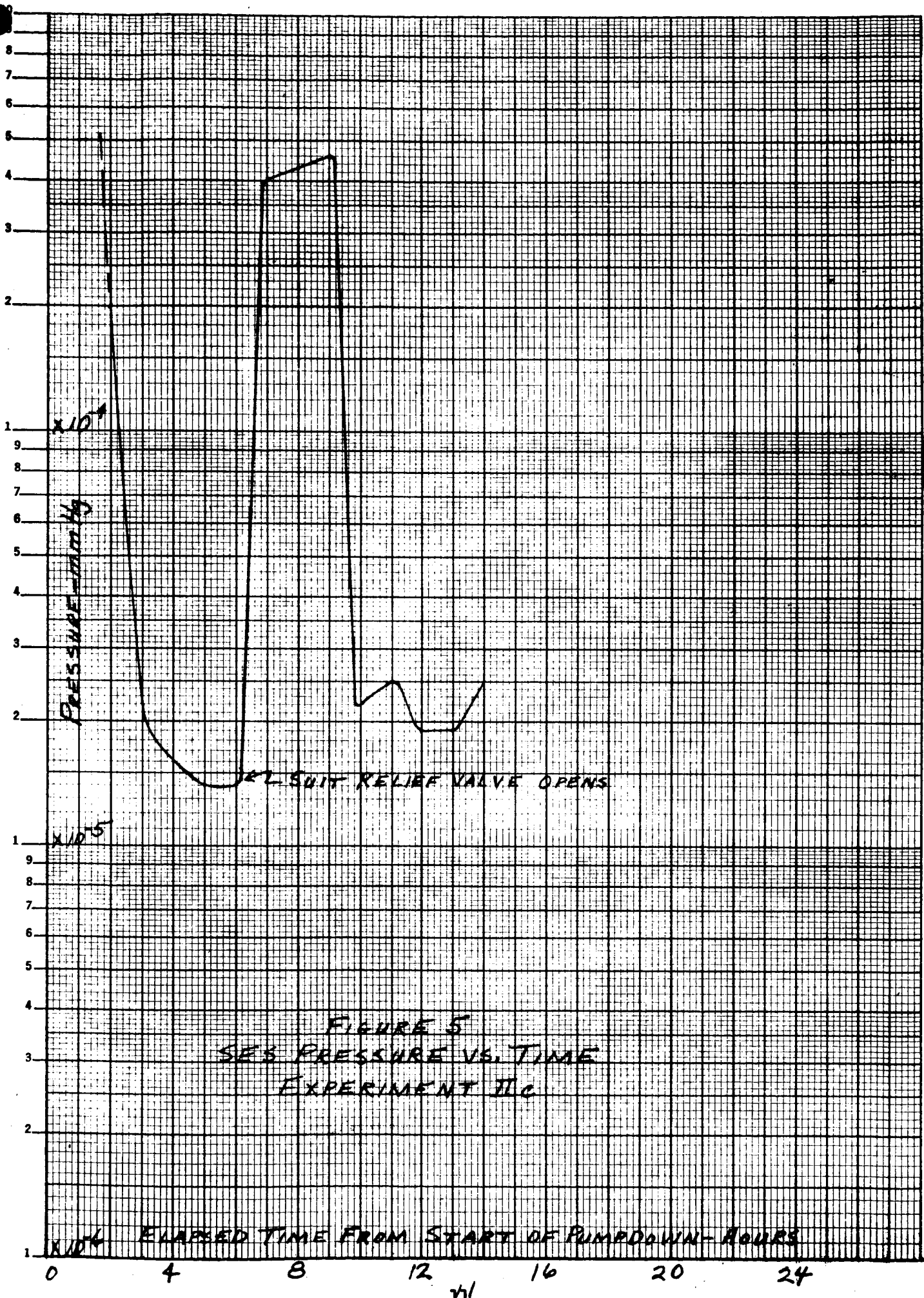


FIGURE 5
SES PRESSURE VS. TIME
EXPERIMENT IIc

ELAPSED TIME FROM START OF PUMPDOWN - HOURS

TABLE I

SPECTRAL ENERGY DISTRIBUTION OF 2.5 KVA MERCURY-XENON
(HANOVIA) SOURCES AS INSTALLED IN THE LTV SOLAR
SIMULATOR

Wavelength Band, Millimicrons	Energy in Band, Milliwatts/cm ²	Wavelength Band, Millimicrons	Energy in Band, Milliwatts/cm ²
- 260	(0.5)	560-570	0.2
260-270	1.0	570-580	2.7
270-280	1.5	580-590	2.2
280-290	1.7	590-600	0.2
290-300	2.0	600-610	0.1
300-310	2.5	610-620	0.6
310-320	2.6	620-630	0.1
320-330	0.4	630-640	0.1
330-340	1.2	640-650	0.1
340-350	0.2	650-660	0.1
350-360	0.4	660-670	0.1
360-370	3.6	670-680	1.1
370-380	3.5	680-690	0.4
380-390	0.3	690-700	0.1
390-400	0.2	700-750	0.5
400-410	1.7	750-800	0.4
410-420	0.2	800-850	0.7
420-430	0.3	850-900	1.0
430-440	3.4	900-950	0.9
440-450	0.2	950-1000	1.0
450-460	0.2	1000-1100	2.0
460-470	0.1	1100-1200	1.8
470-480	0.1	1200-1300	0.9
480-490	0.1	1300-1400	1.9
490-500	0.2	1400-1500	0.4
500-510	0.1	1500-1600	0.5
510-520	0.1	1600-1700	0.5
520-530	0.1	1700-1800	0.5
530-540	0.2	1800-1900	0.2
540-550	2.5	1900-2000	0.1
550-560	0.3		
		Total	49.8 %
		UV (380 mμ and below)	18.1 36
		VIS (380-750 mμ)	18.9 38
		NIR (above 750 mμ)	12.8 26

Source: Measurements by Dr. A. J. Drummond, Eppley Laboratories, Newport, Rhode Island

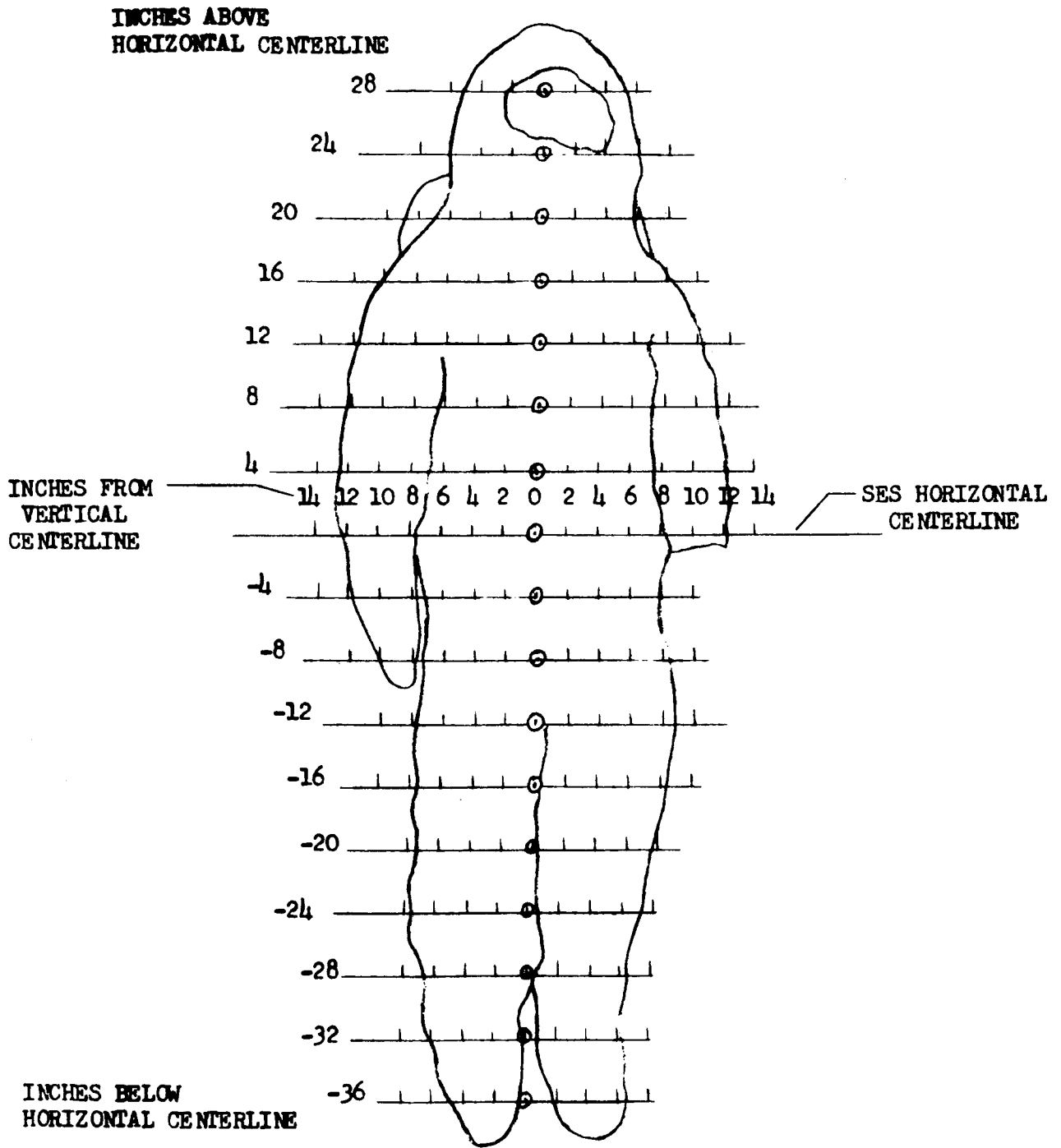


FIGURE 6a

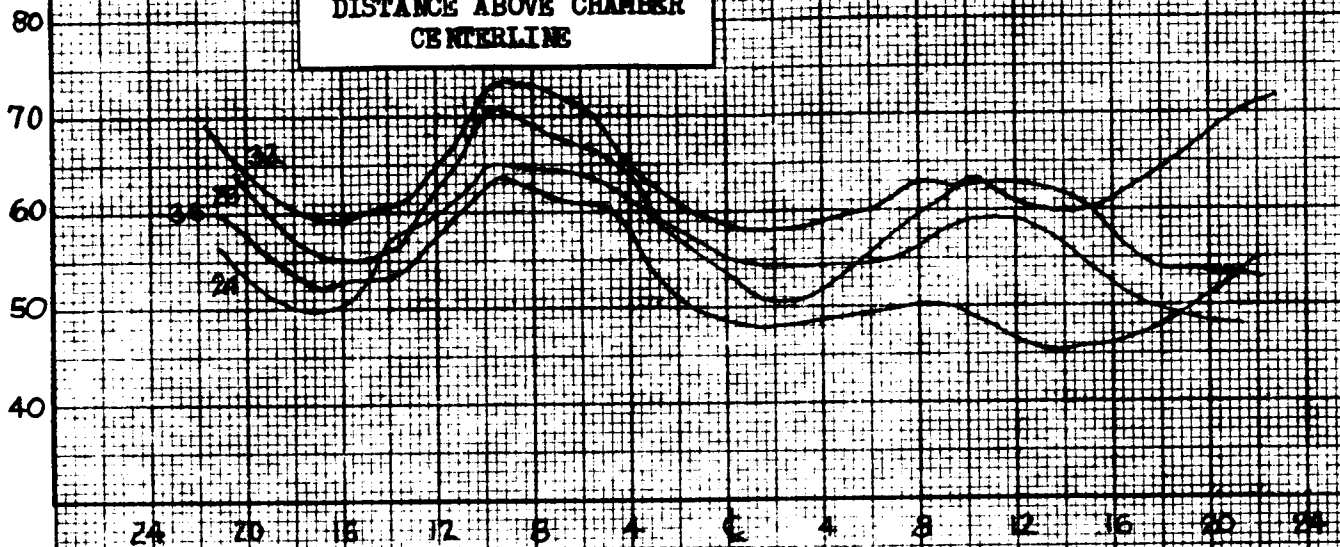
APOLLO EMU RELATIONSHIP TO
SOLAR SOURCE CALIBRATION

FIGURE 6b

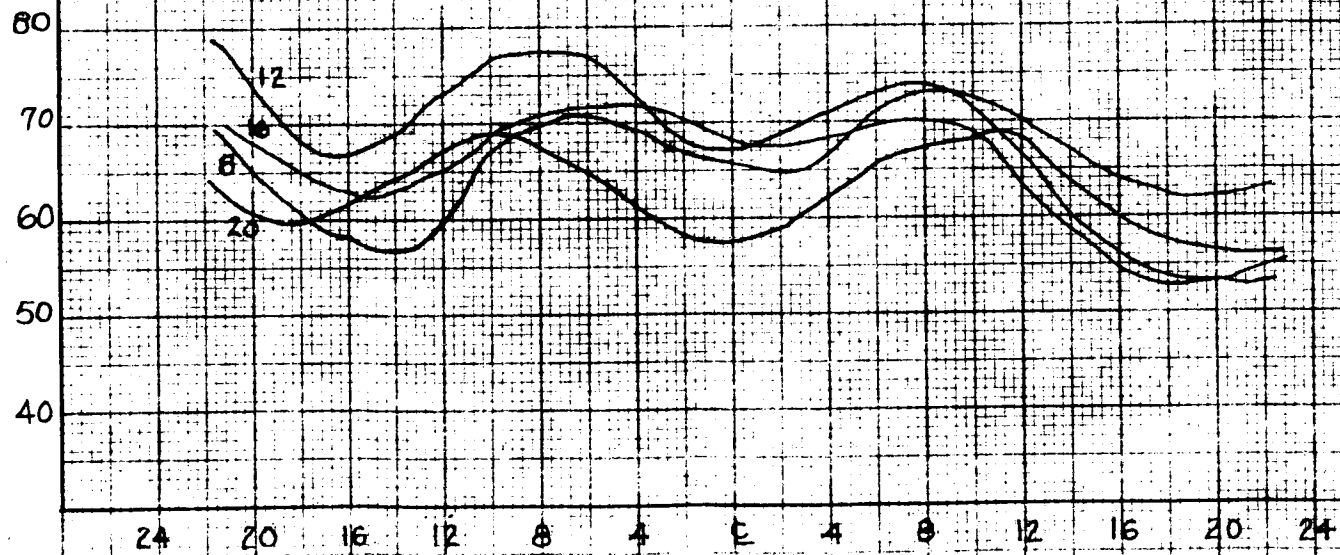
LTV SPACE ENVIRONMENT SIMULATOR
SOLAR FLUX DISTRIBUTION AT TEST
PLANE

DISTANCE ABOVE CHAMBER
CENTERLINE

PERCENT OF ONE SOLAR CONSTANT

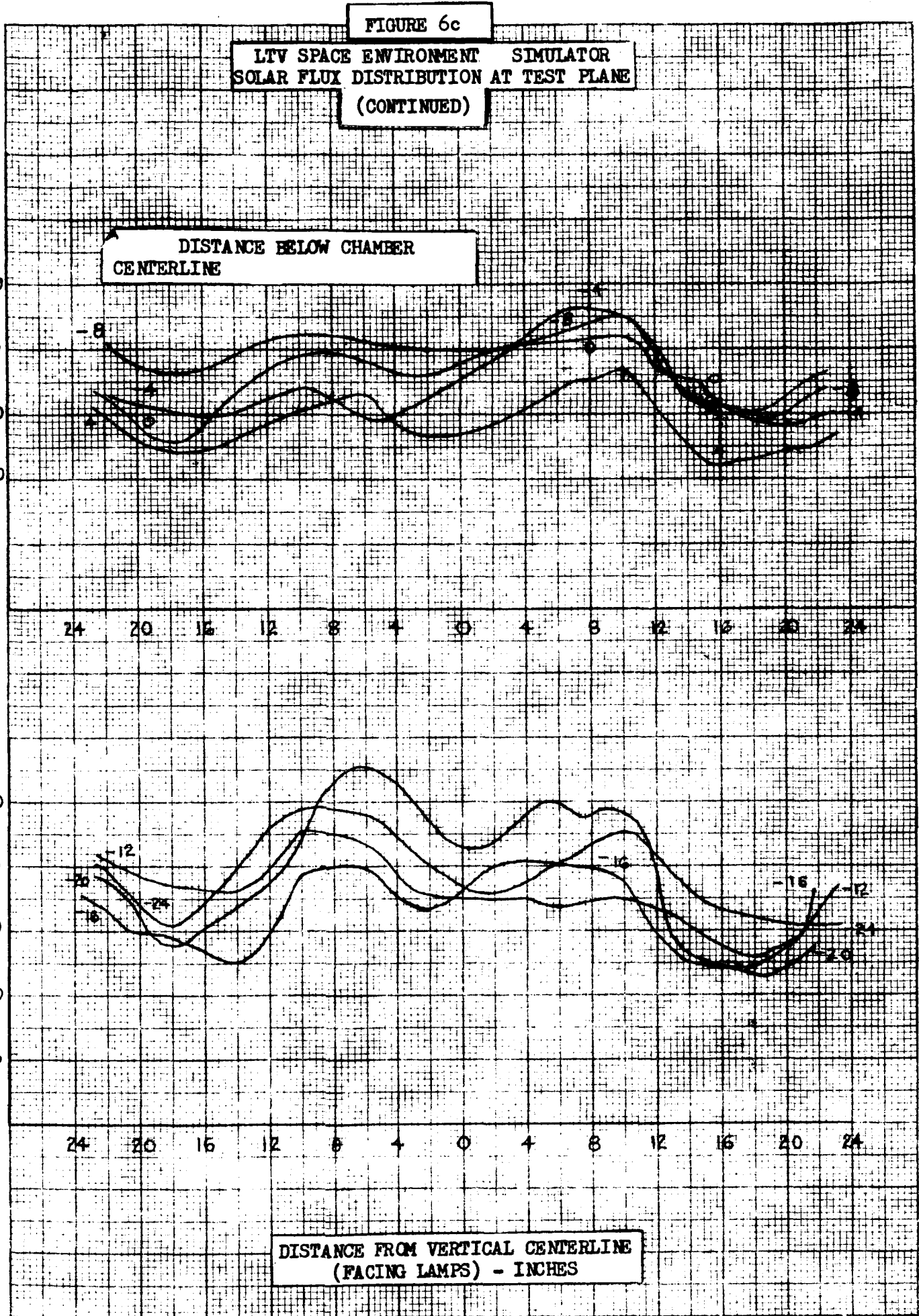


DISTANCE FROM VERTICAL CENTERLINE
(FACING LAMPS) - INCHES



K&E
KENNETH & EBERHART CO.
10 X 10 TO THE INCH 328-11

PERCENT OF ONE SOLAR CONSTANT



3.3.2 SPECIAL TEST EQUIPMENT

3.3.2.1 Thermal Dummy

The space suit used in these experiments was worn over a thermal dummy shown in Figures 7 and 8. The dummy was installed inside the pressure garment assembly to simulate astronaut skin temperatures, sensible metabolic heat and to force duplication of suit internal flow patterns.

The thermal dummy was manufactured by the Sierra Engineering Company of Sierra Madre, California. The dummy is constructed as a laminated shell with heater elements as follows: (1) an outer layer of polyester and fiberglass (approximately 50% polyester) approximately 0.110 inches thick; (2) a layer of copper approximately 0.0312 inches thick and (3) an inner layer of polyester and fiberglass approximately 0.050 inches thick. The dummy is constructed such that the conductance of the shell approximates the average conductance of human skin (7 BTU/hr ft² OF). The dummy conforms to a 15th percentile man with a height of 67 inches. Total dummy weight is approximately 57 lbs. Each body segment has an individual electrical resistance heater such that power can be supplied and controlled individually to each of the segments. The individual segment weights and the dummy heat capacity are presented in Appendix A.

3.3.2.2 Spacecraft Surface Simulator

The curved surface shown at the right of Figure 9 was used in the evaluation of the effects of direct contact between the extravehicular mobility unit and a spacecraft surface. The surface has the curvature of the Gemini spacecraft adapter section and can be actuated to move against the suit (Figure 10) or be retracted from it. The temperature of the simulated spacecraft surface is controlled by supplying electrical energy to attached electrical resistance heaters or by allowing the surface to cool by radiation to the SES cryowalls.

Movement of the spacecraft surface simulator is provided by the pneumatic actuator shown on Figure 11. The force exerted against the suit is determined by the amount of compression in a specially designed spring in the actuating mechanism. Prior to the beginning of testing the force required is preset into the actuating mechanism by bringing the spacecraft surface in contact with the suit and adjusting the amount of travel. The mechanism was adjusted prior to Experiment II-a such that the force exerted against the suit by the simulator was approximately fifteen pounds.

3.2.2.3 Lunar Surface Simulators

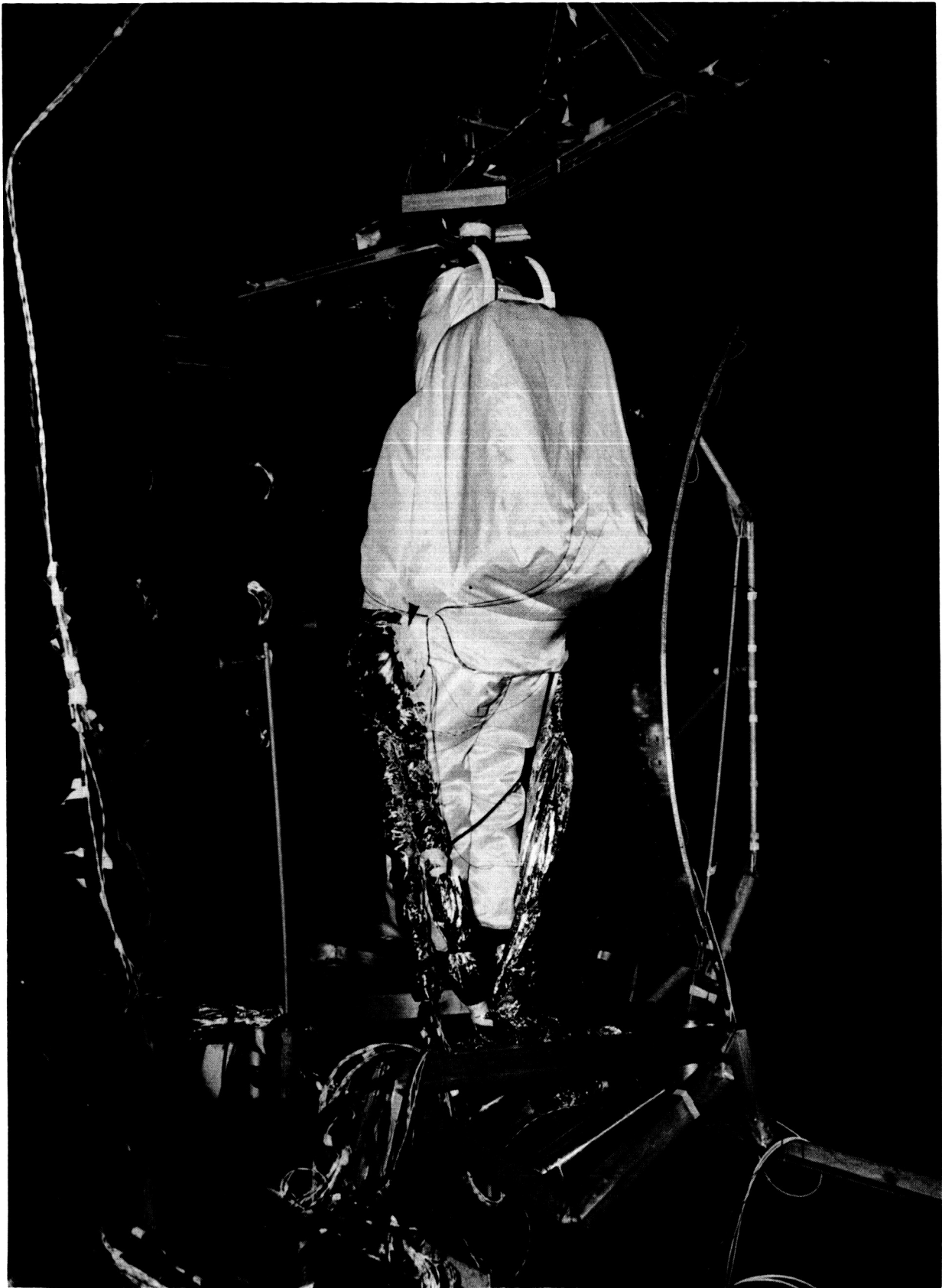
Lunar surface temperatures and fluxes were simulated by a two-component simulator shown on Figures 12 and 13. A horizontal surface under the feet of the suit simulated the temperature and fluxes emitted near the suit. An open-frame bank of tungsten filament lamps provided fluxes on the upper parts of the suit.



FIGURE 7 THERMAL DUMMY



FIGURE 8 THERMAL DUMMY PARTIALLY DISASSEMBLED SHOWING SECTIONS AND HEATERS



**FIGURE 9 TEST SETUP FOR EXPERIMENT II-A
SHOWING CURVED SPACECRAFT SURFACE SIMULATOR**



FIGURE 10 SPACECRAFT SURFACE SIMULATOR IN CONTACT WITH SPACE SUIT (EXP. II-A)

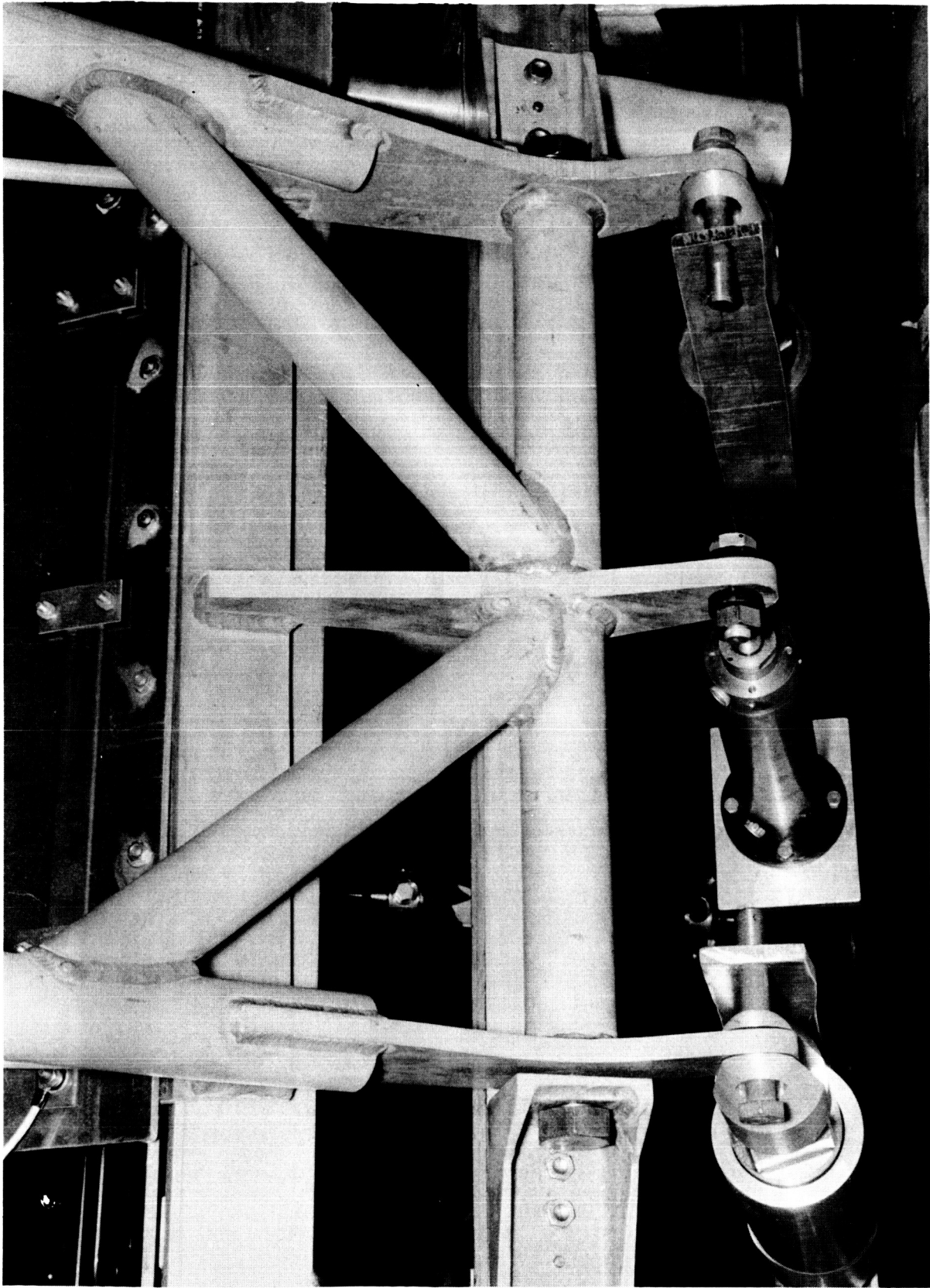


FIGURE 11 SPACECRAFT SIMULATOR ACTUATOR MECHANISM

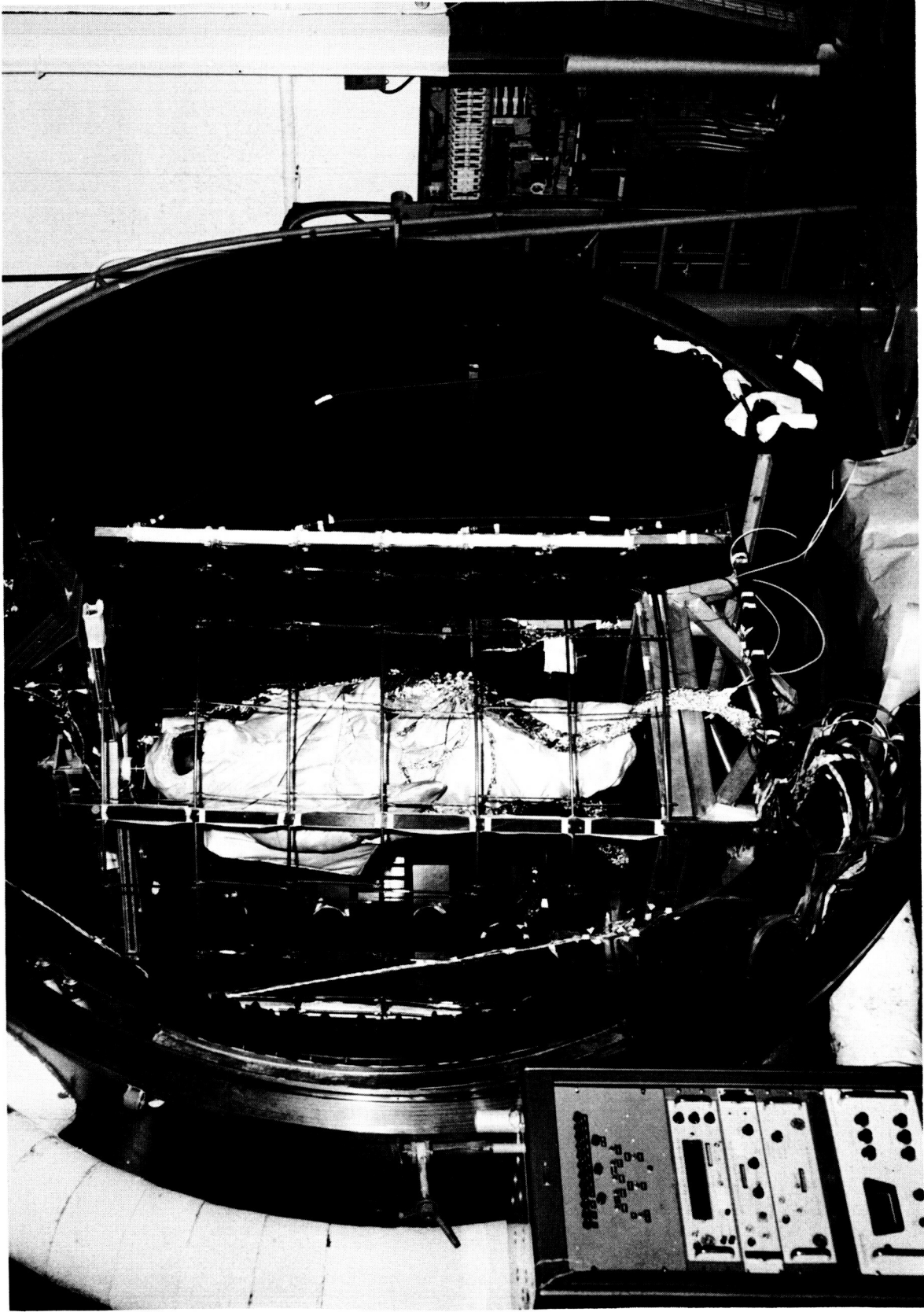


FIGURE 12 VERTICAL AND HORIZONTAL LUNAR SURFACE SIMULATORS INSTALLED IN SES

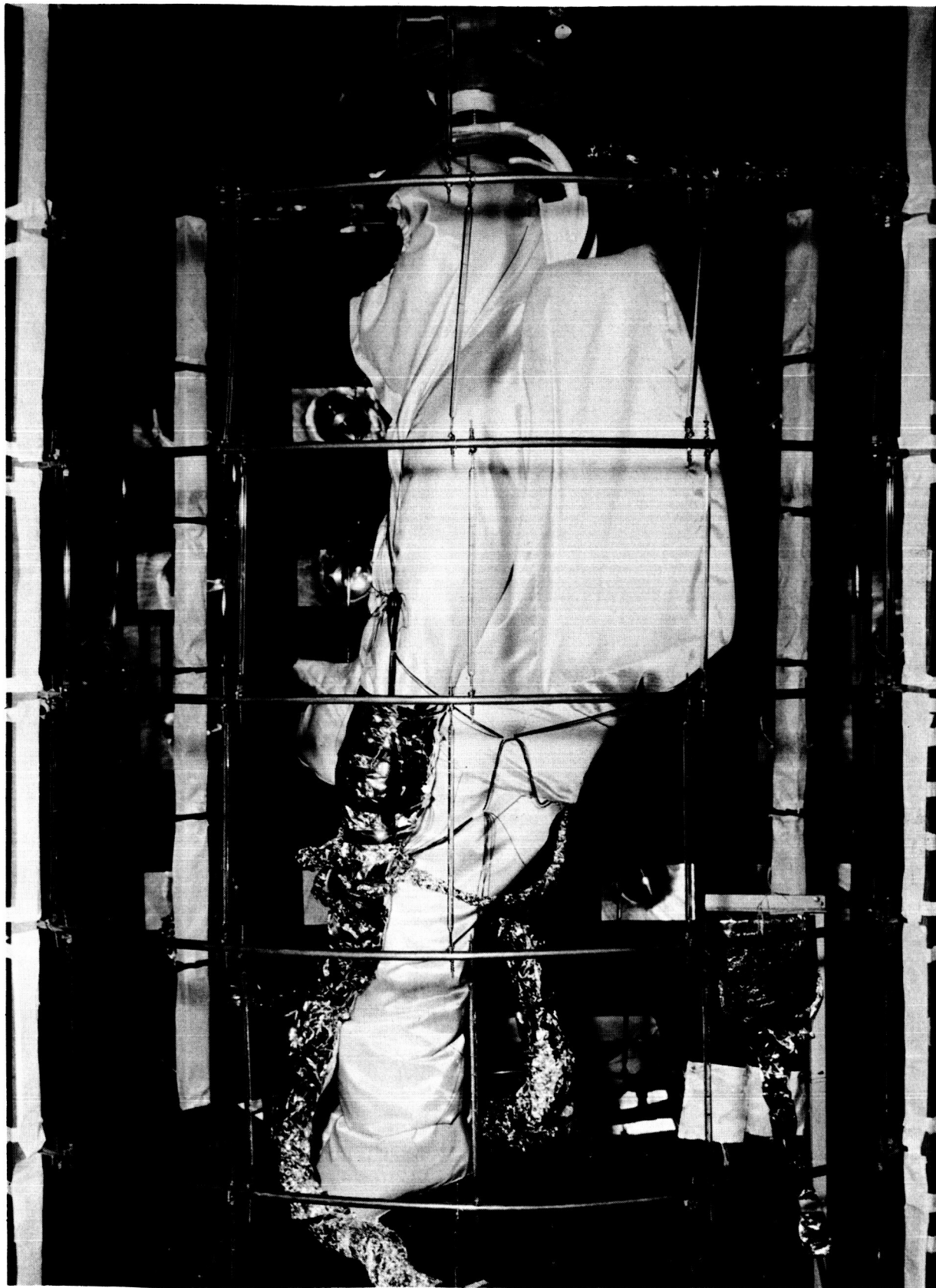


FIGURE 13 LUNAR SURFACE SIMULATOR AND APOLLO EMU

The vertical simulator is an open framework of tungsten filament lamps arranged in a cylinder six feet in diameter and six feet high, (Figure 12). The array was positioned to encircle the suit and provide most of the simulated lunar surface radiation on the suit. The lamps act as line sources while allowing the suit to view essentially all of the cryowall. The flux from the simulator was measured in vacuum using a hemispherical-view thermopile.

The horizontal lunar simulator consists of a black anodized aluminum plate attached to the test bed beneath the EMU (Figure 13). Electrical heaters are attached to the underside of the plate and were used to raise the plate temperature to approximately 250°F when required to simulate hot lunar surface conditions. A liquid nitrogen coil is attached to the back of the plate to cool it to approximately -250°F for cold lunar surface simulation.

Analyses of both simulators are presented in Appendix B. Lunar simulator variances from true lunar surface conditions are discussed in Section 3.6.2.

3.3.2.4 Solar Shutter

Simulation of such conditions as ingress or egress from a lunar cave required rapid "on-off" action of the solar flux. A solar shutter was employed to meet these requirements. The shutter is located outside the chamber and is constructed of vertical, water cooled aluminum strips which are attached to a frame that can be moved horizontally to either block or admit solar simulation to the entrance ports.

3.3.2.5 Suit Tear Actuator

An actuator was devised to remove tape from the suit and expose tears in the insulation during Experiment II-a. The tear actuator is shown schematically in Figure 14 and consists of an electric motor driven windlass located beneath the horizontal lunar simulator. Two cables are attached to the windlass and extended through two holes in the horizontal simulator plate to where they attach to the tape covering the tears in the thermal garment. Two tears were made: a vertical tear on the upper right leg and an inverted "V" tear on the upper left leg. Details of the tear geometry are given in Section 4.2.6. The tears were sealed with Minnesota Mining and Manufacturing Company fiberglass tape No. 361-3MCS during test point No. 1 of Experiment IIc. The tape was removed by energizing the low rpm electric motor causing the cables to wind up on the windlass, thus ripping off the tape.

3.3.2.6 Suit Rotation

Suit rotation was provided by the gear and rack drive mechanism shown in Figure 15 . The drive mechanism and EMU were supported by an overhead beam fastened to the top of the chamber as shown in Figure 9 . The suit could be rotated through an angle of approximately $\pm 190^\circ$. The simulated spacecraft surface was supported by the test bed frame shown in Figure 16 which fastened to rails in the bottom of the chamber.

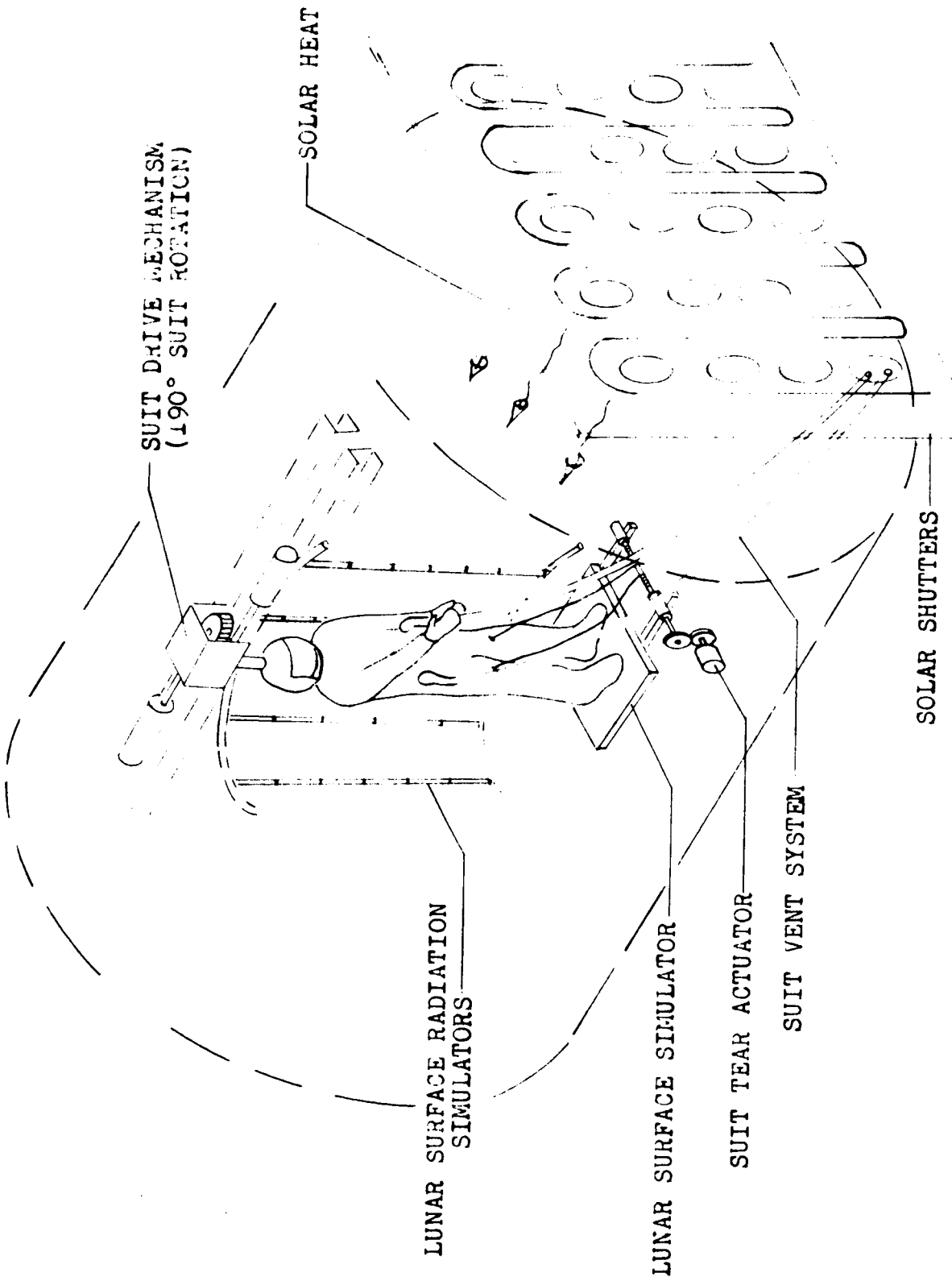


FIGURE 14 - TEST SETUP FOR EXPERIMENTS II-b AND II-c

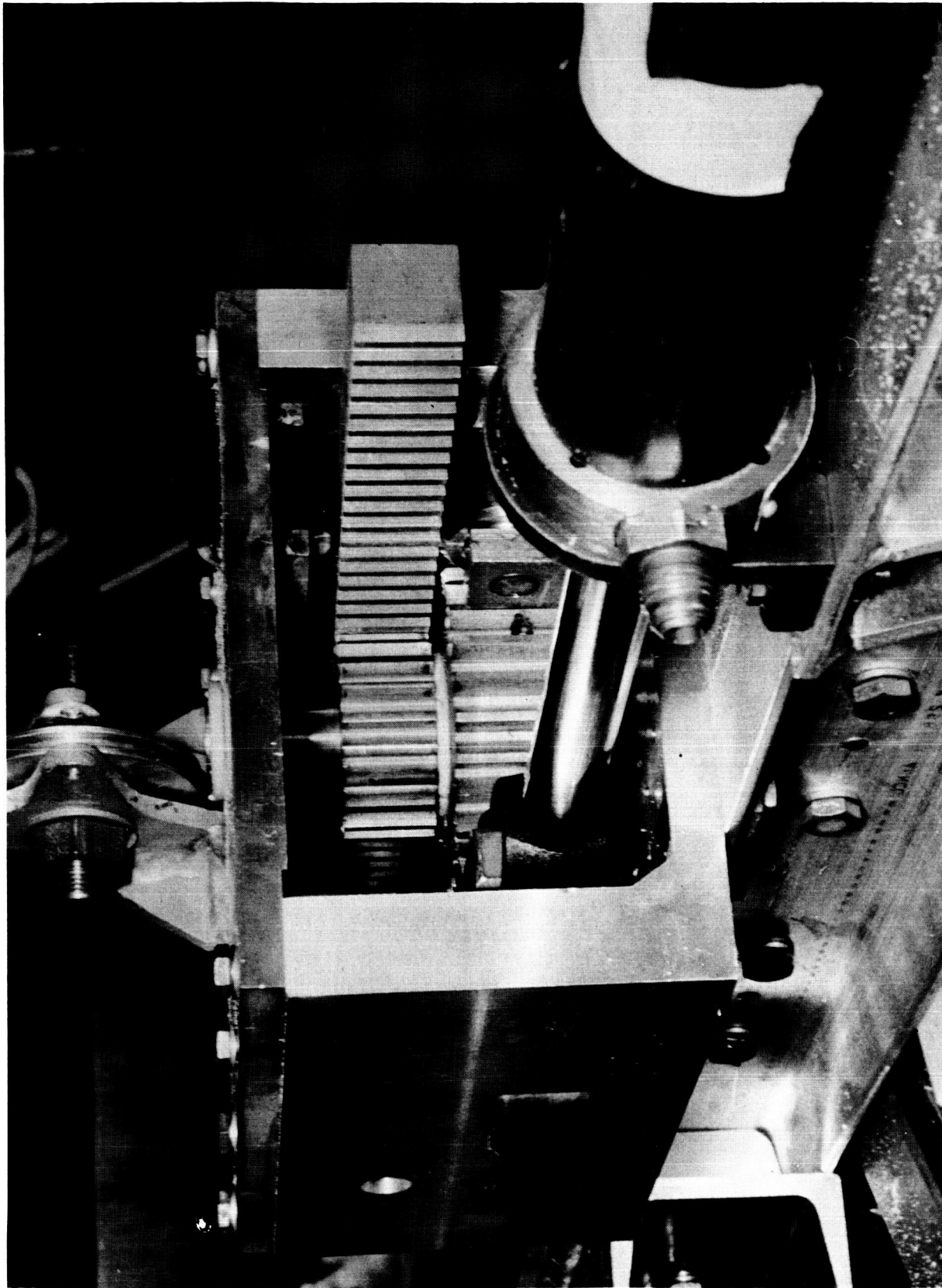


FIGURE 15 SUIT ROTATION MECHANISM

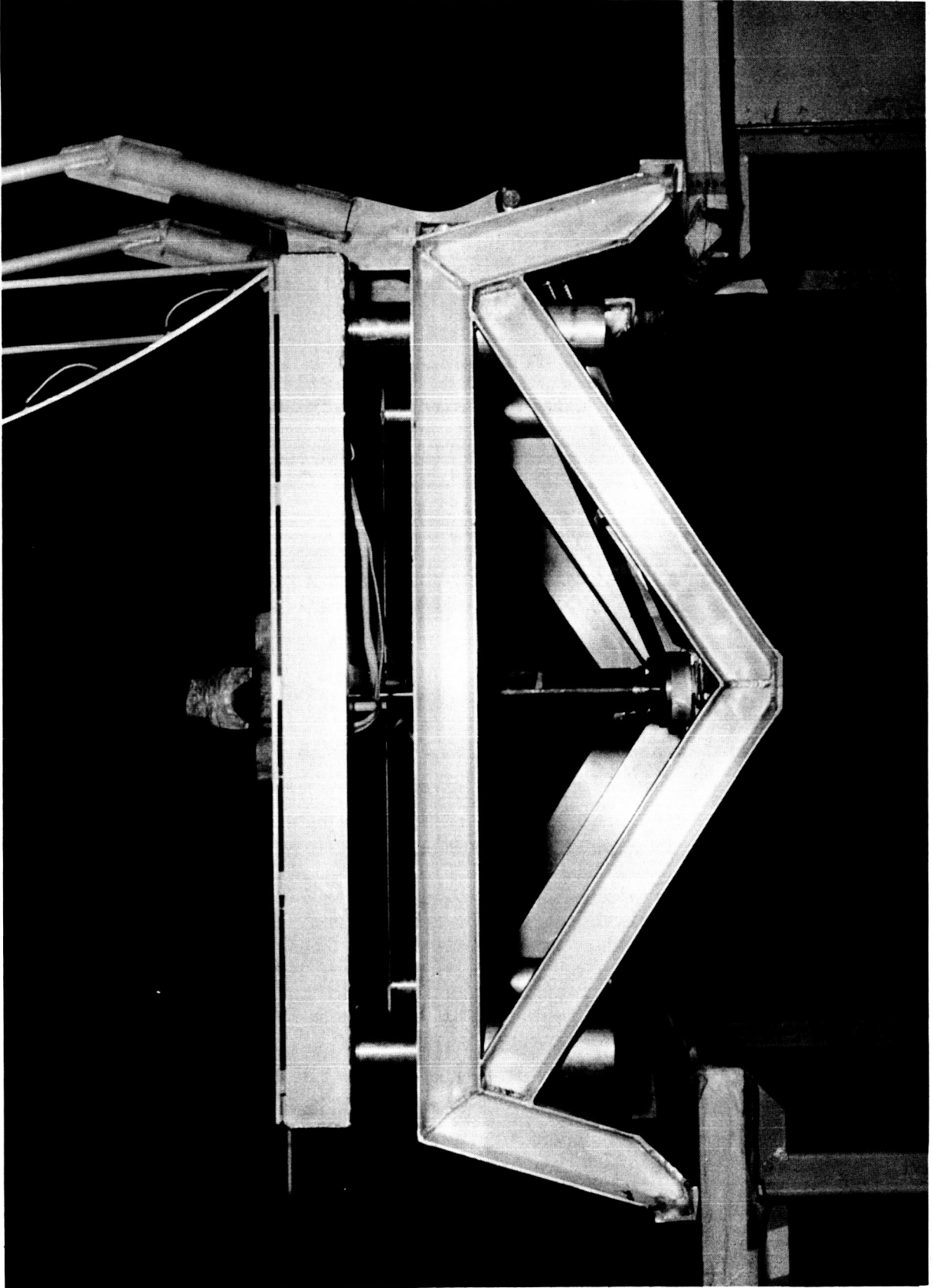


FIGURE 16 SUPPORT FOR SPACECRAFT SIMULATOR

3.3.2.7 Suit Gas Supply System

The closed loop suit gas supply system is shown schematically in Figure 17 . Oxygen was used for Experiments IIa and IIb and nitrogen was used for Experiment IIc.

Purging of the system was accomplished during pumpdown as follows:

1. Valves 1, 3, 5, 7, 8, 9, 10 and 11 are closed. Valves 2, 4, and 6 are open (see Figure 17).
2. Valve 5 is regulated during pumpdown to maintain a suit to chamber pressure differential of 3.7 psig.
3. Regulator A is set at 5 psig.
4. After the SES chamber pressure has decreased to 10 mm Hg or less, valve 5 is closed, valve 8 is opened, the vacuum pump is started and the suit pressure is regulated with valve 9.
5. The system is allowed to purge for two hours.

During conduct of an experiment the following procedures were employed to maintain the suit ventilation gas flow requirement of 11.5 ACFM at 3.7 psia and 70°F:

1. Valves 8 and 9 are closed. Valves 3 and 11 are open.
2. Automatic Regulator B is set at 3.7 psia and valve 1 is open.
3. Blower is started and the speed is regulated to give a suit flow of 11.5 ACFM.
4. Inlet temperature is controlled by regulating valve 10 to control the water flow to the heat exchanger and by regulating the voltage to the line heater.

Measurement of suit leakage requires closing off the suit return flow and measuring the flow rate required to maintain a suit pressure of 3.7 psia. The following is the procedure for measurement of suit leakage.

1. Blower was shut off and valves 2 and 3 were closed.
2. Valve 9 was regulated to maintain the suit pressure constant at 3.7 psia.
3. After the suit pressure had stabilized at 3.7 psia, suit leakage was measured with the suit leakage flowmeter (See Section 3.4.1 for flowmeter description).

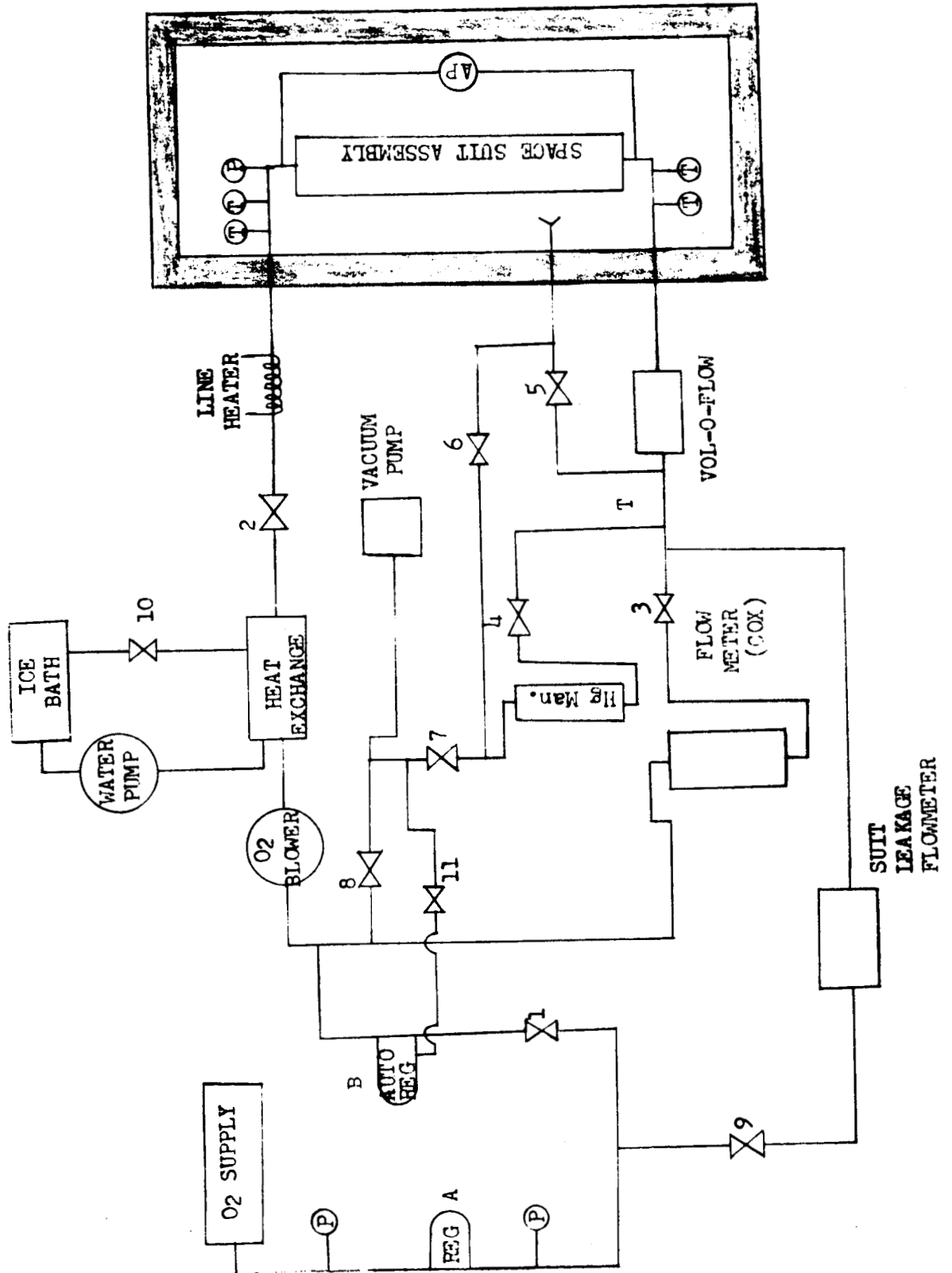


FIGURE 17
SUIT FLOW SYSTEM

4. To return the suit flow after the leakage had been measured, valve 9 was closed, valves 2 and 3 were opened and the blower started.

To return the suit to atmospheric pressure at the end of a test, valves 1 and 11 were closed and valve 9 was regulated to maintain a suit-to-chamber pressure of 3.7 psig as the chamber pressure was increased.

3.4 INSTRUMENTATION

Instrumentation was selected for Experiments II-a, II-b, and II-c which would:

(a) Provide the test data required to make the evaluations and analysis as stated in the test objectives in paragraph 3.1.

(b) Determine the degree to which the tests simulated the conditions specified by the test points.

(c) Monitor progress of the test and facility operation.

This section of the report describes the measurements that were made, data acquisition equipment, and recording techniques.

3.4.1 MEASUREMENTS ON SUIT AND THERMAL DUMMY

Temperatures - The Apollo space suit assembly and thermal dummy were instrumented for temperature measurements on the dummy surface, constant wear garment (underwear), inside and outside of the pressure suit, inside and outside of the thermal garment, portable life support system (PLSS) shell, and on the helmet. The measurement locations were selected to provide data on suit hot and cold spots, material performance, thermal dummy temperatures, suit thermal response, and the effects of mission and configuration variables.

Figure 18 and Table II present a complete list of the temperature measurements, thermocouple locations, and corresponding recorder channel numbers. The locations presented in Table II were coordinated with the NASA contract technical monitor.

All temperature measurements were made by copper-constantan thermocouples. All thermocouples, except two which were used for ventilation gas temperature measurements, were constructed of forty-gauge wire (0.003 in. diameter) and beaded by a resistance welder. The two gas stream thermocouples were made of twenty-four gauge wire. Forty-gauge wire was utilized for the thermocouples in order to minimize the measurement error due to thermal conduction along the wire to or from the junction.

The thermocouples located on metal surfaces inside the pressure suit were electrically welded to the metal surface, where possible. Where access of the welder to the metal surface was restricted, the thermocouples were mounted with Eastman 910 cement. Thermocouples located on the dummy surface were secured by Humiseal cement and those on the constant wear garment (underwear) were secured by Eastman 910 cement and fiberglass tape. The

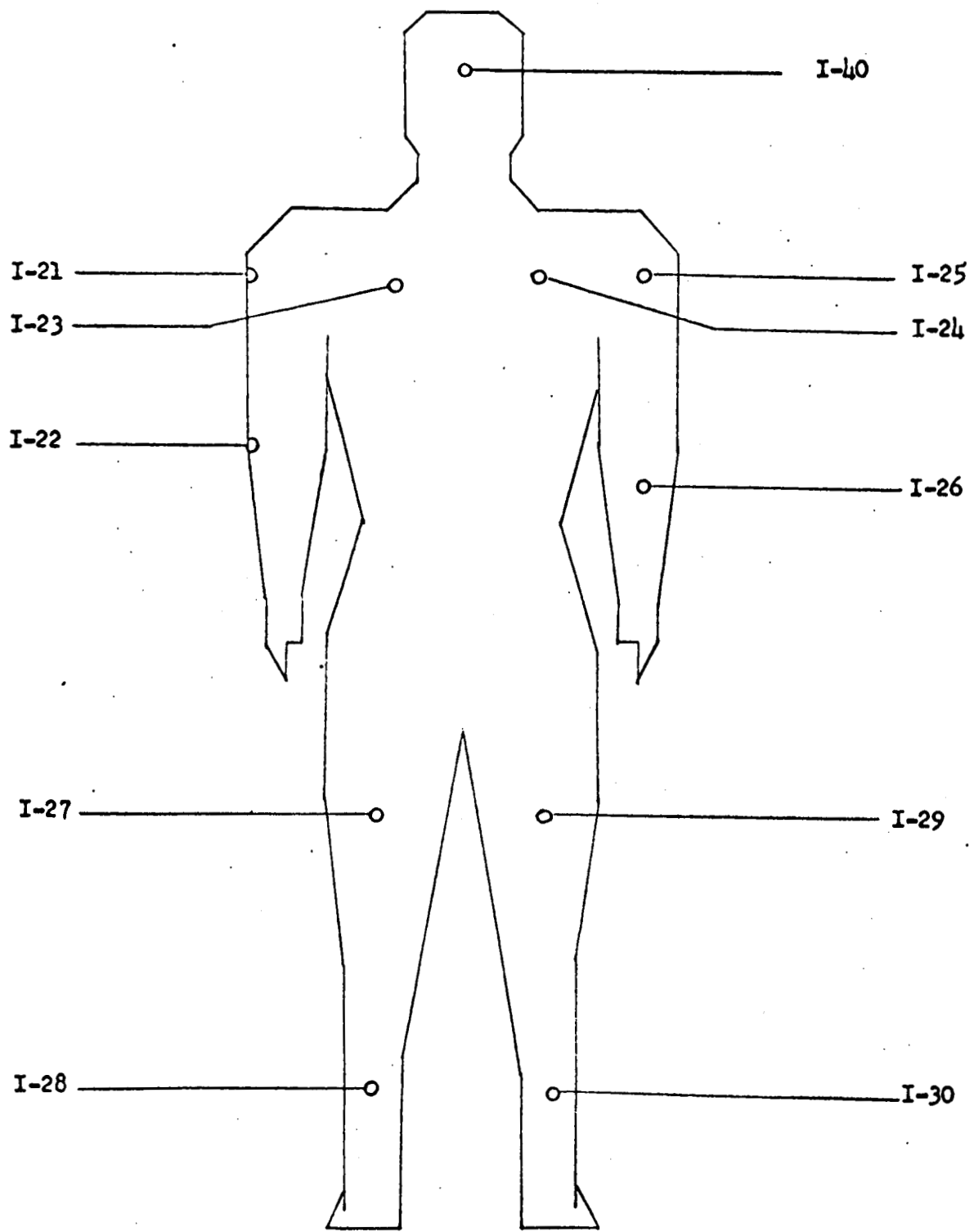


FIGURE 18 . THERMOCOUPLE LOCATIONS ON DUMMY FRONT SURFACE

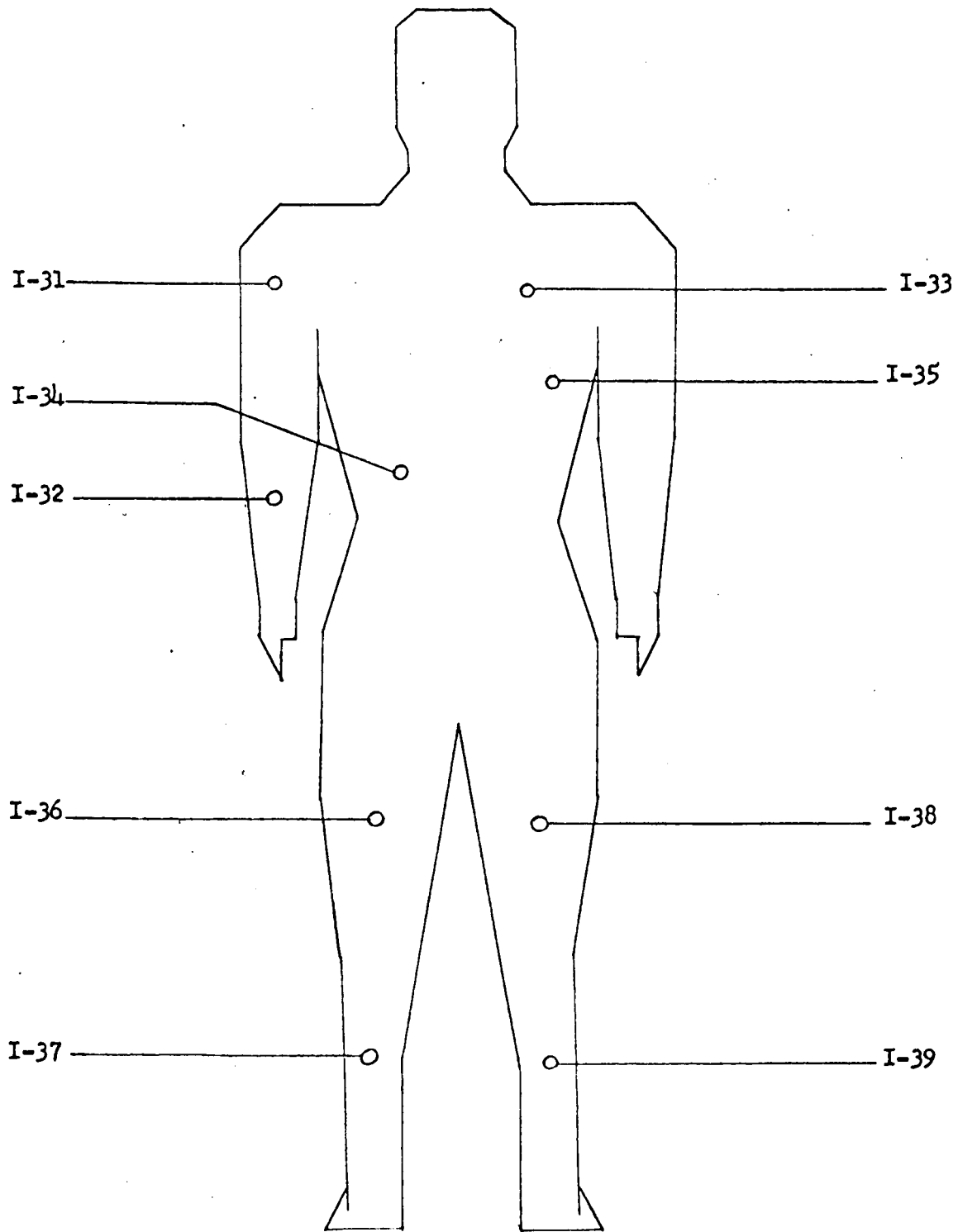


FIGURE 18a. THERMOCOUPLE LOCATIONS ON DUMMY BACK SURFACE

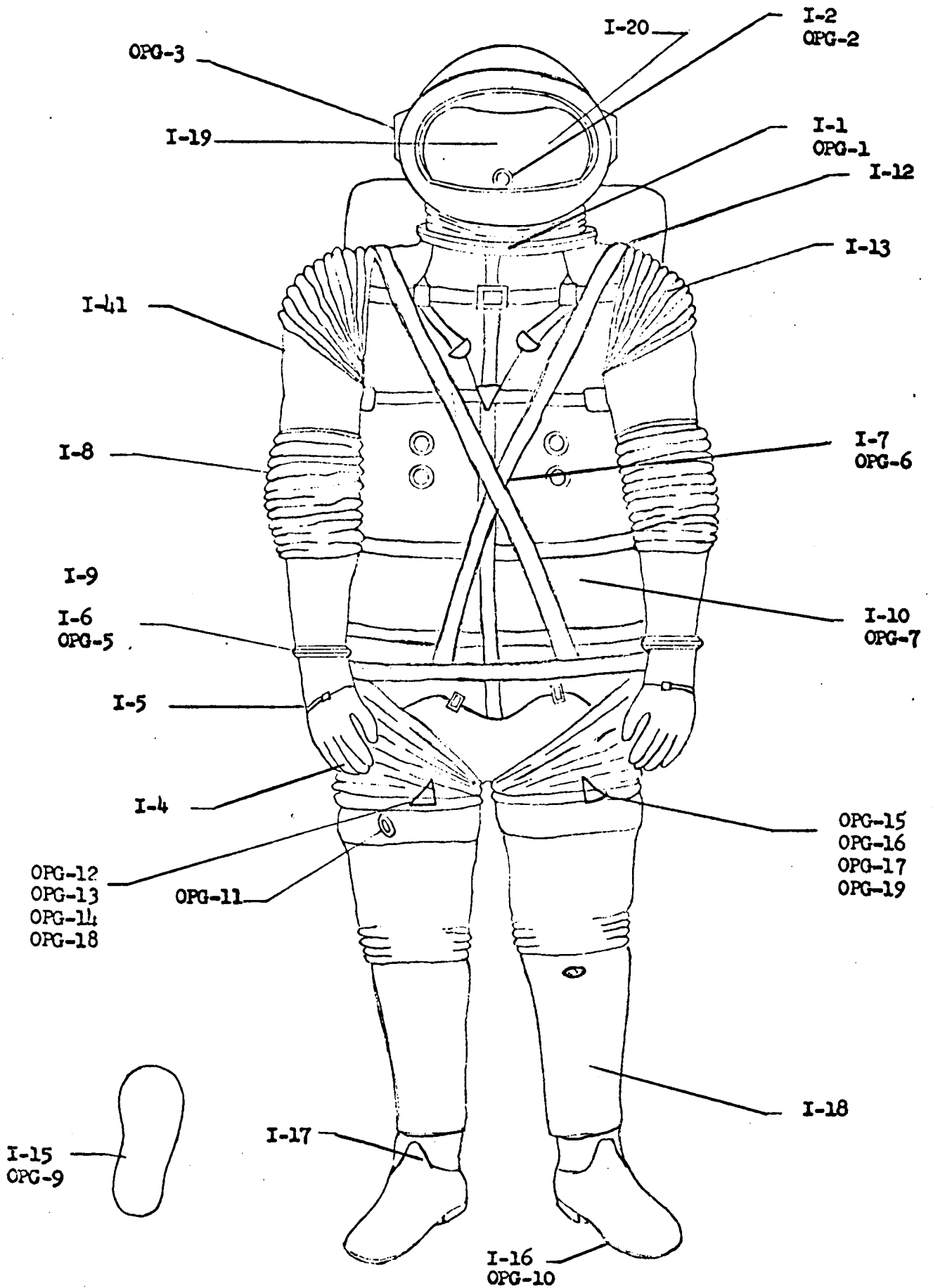


FIGURE 18b. THERMOCOUPLE LOCATIONS ON FRONT OF PRESSURE GARMENT

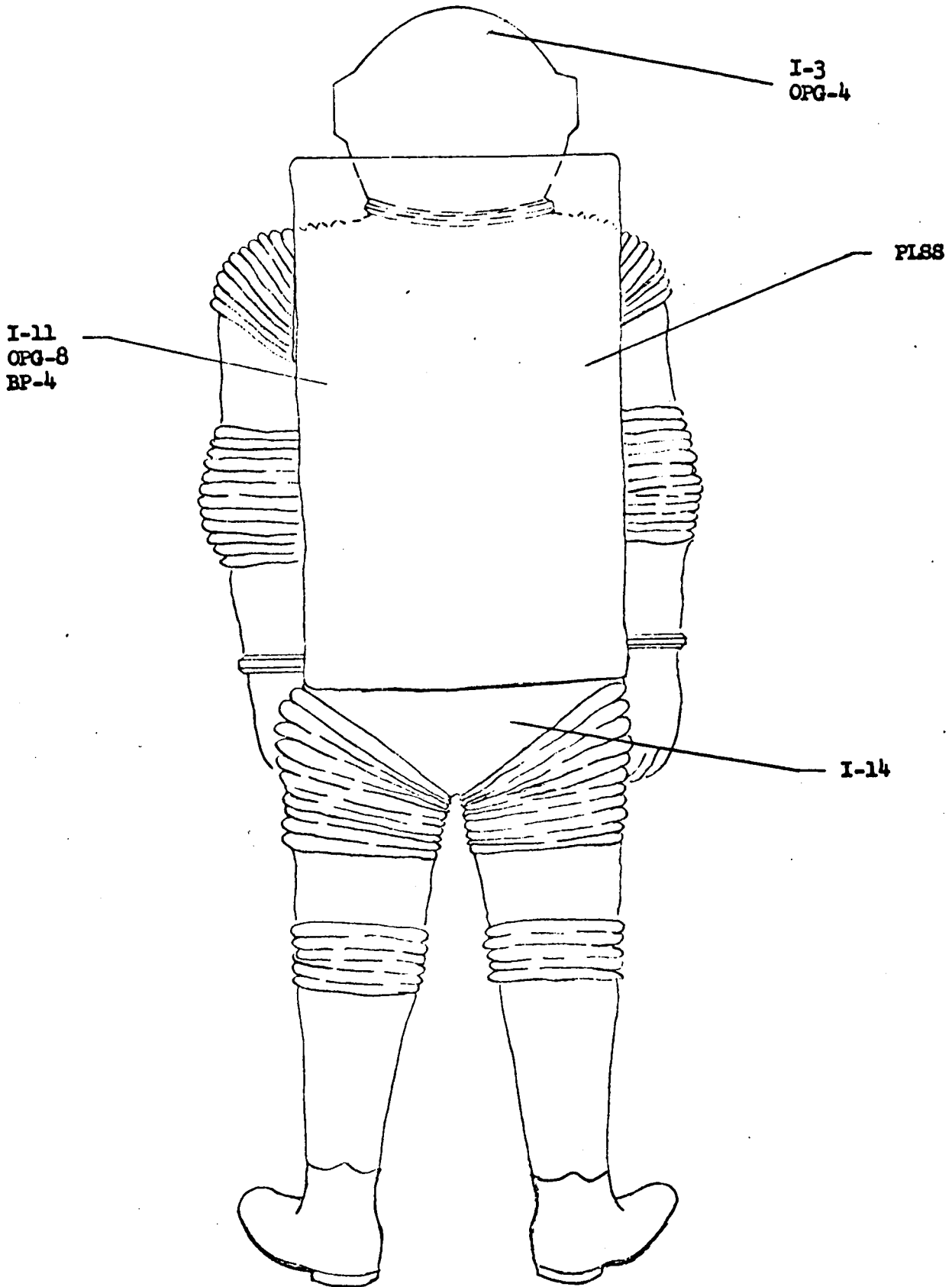


FIGURE 18c. THERMOCOUPLE LOCATIONS ON BACK OF PRESSURE GARMENT

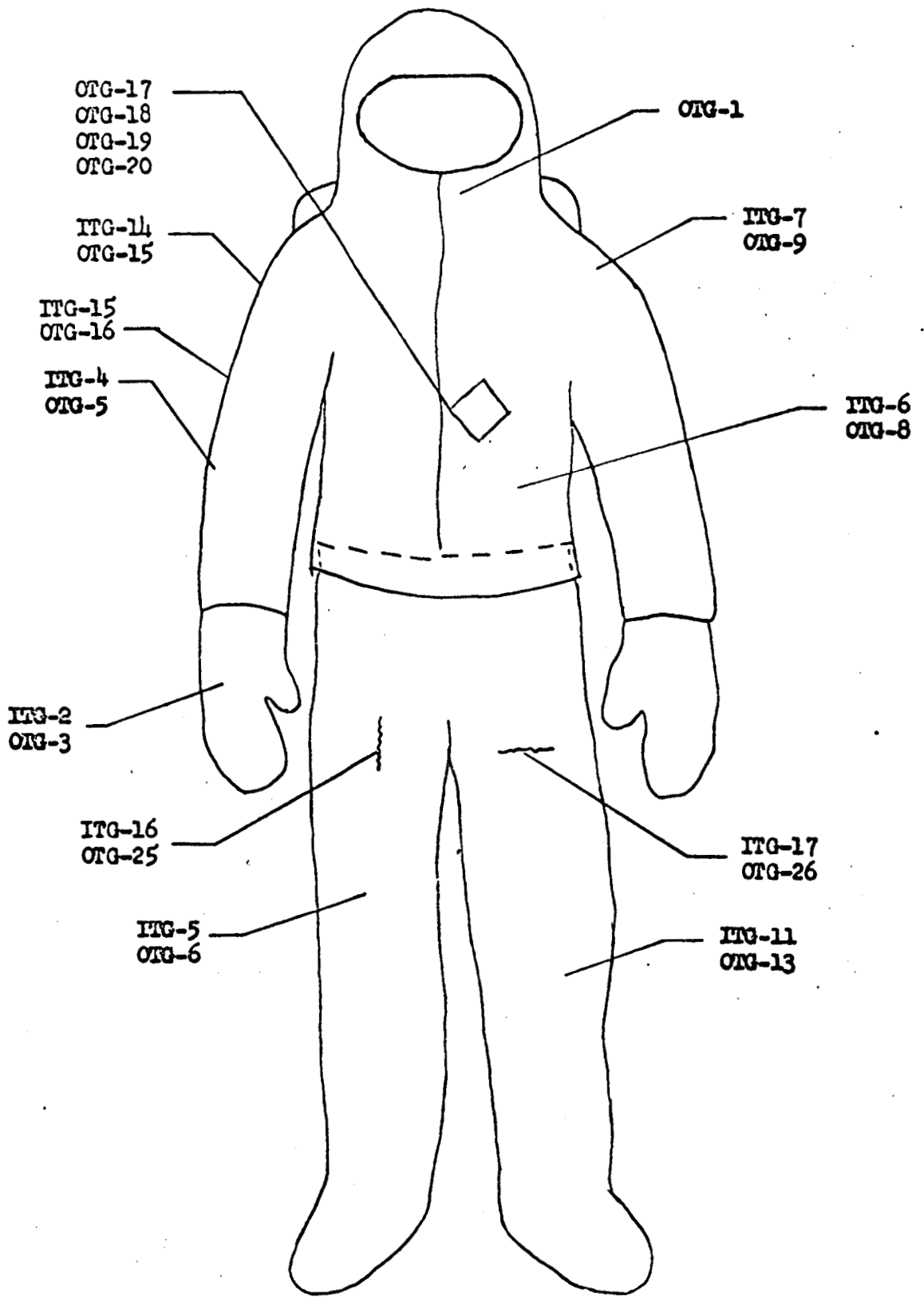


FIGURE 18d. THERMOCOUPLE LOCATIONS ON FRONT OF THERMAL GARMENT

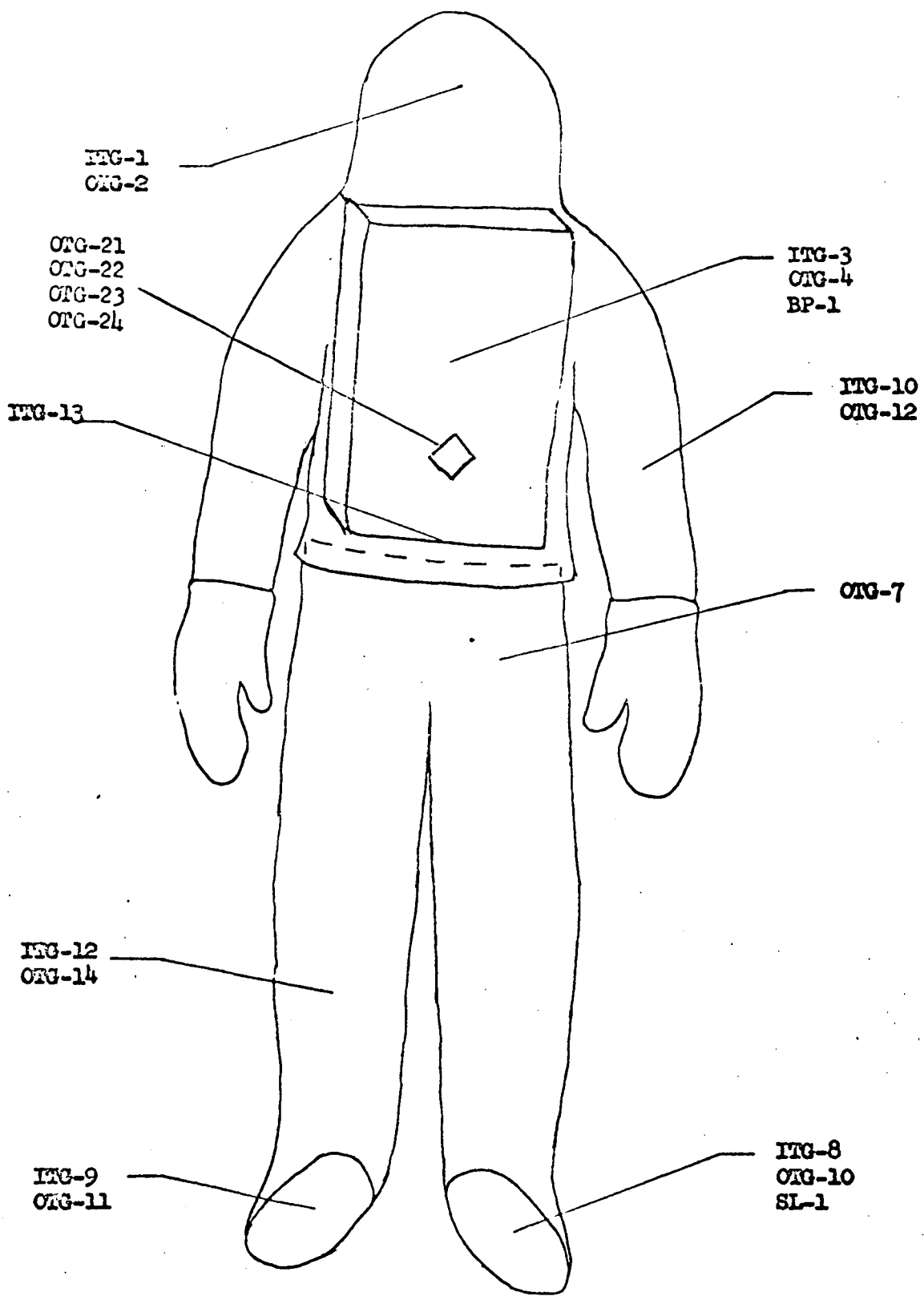


FIGURE 1^e. THERMOCOUPLE LOCATIONS ON BACK OF THERMAL GARMENT

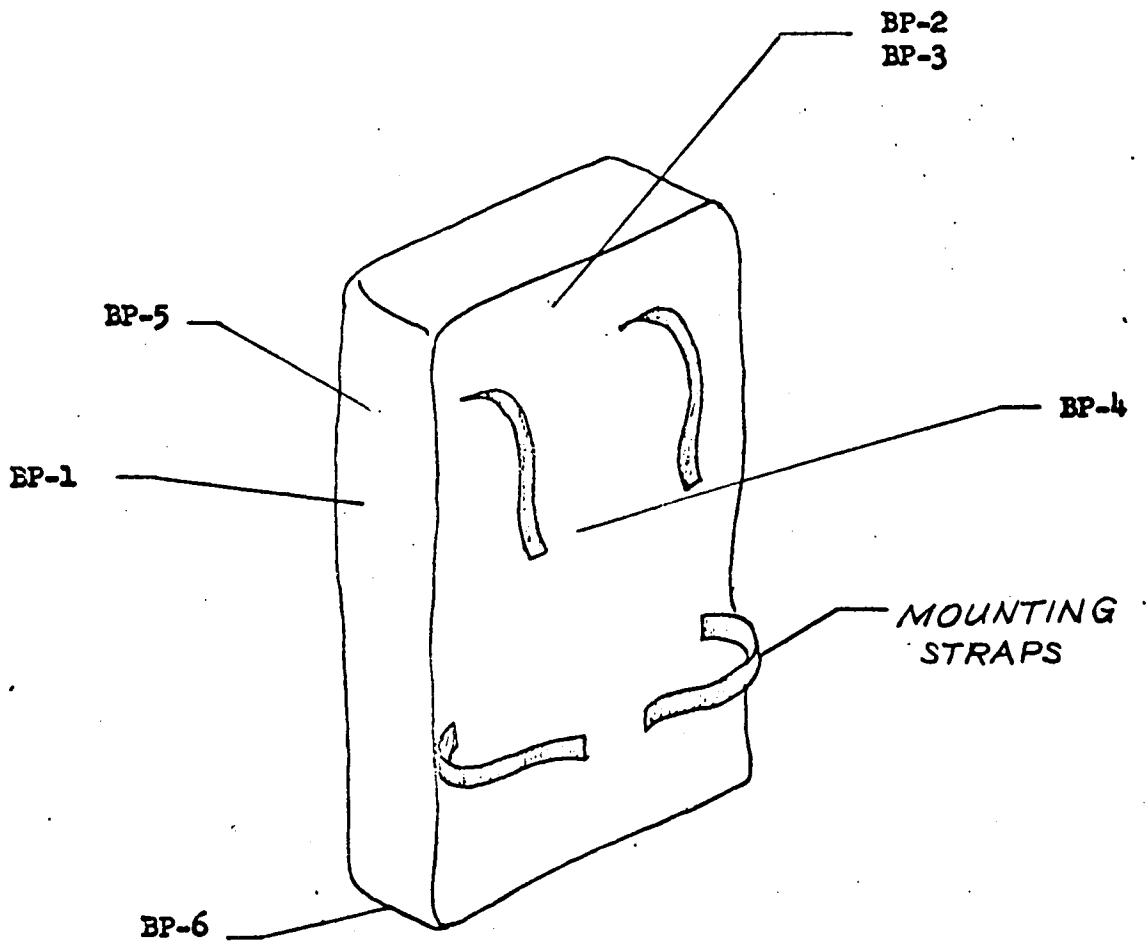


FIGURE 18f. THERMOCOUPLE LOCATIONS ON PLSS

TABLE II

EXPERIMENT II-a, II-b, AND II-c THERMOCOUPLE LOCATIONS

LOCATION CODE:

I - Inside Pressure Garment (On surface of metal parts of suit, where called for, and constant wear garment in fabric areas).

OPG - Outer Pressure Garment Layer

ITG - Inner Thermal Garment Layer

OTG - Outer Thermal Garment Layer

BP - Simulated Back Pack (PLSS)

SL - Special Locations

CHANNEL NO.		CODE	LOCATION AND REMARKS
<u>II-a</u>	<u>II-b,c</u>		
2	115	I-1	Inside front neck ring
3	2	I-2	Inside feeding port
4	3	I-3	Inside back of helmet
5	4	I-4	Right middle finger
6	5	I-5	Back of right hand, beneath adjustment buckle
7	6	I-6	Inside right wrist ring of pressure suit
8	7	I-7	Constant wear garment, beneath crossed PLSS harness straps
9	8	I-8	Constant wear garment, outer side of right elbow
10	9	I-9	Inside wrist ring of right glove
11	10	I-10	Constant wear garment, lower left torso where suit is not compressed by straps
12	11	I-11	Constant wear garment, left shoulder blade where pack rests on suit
13		I-12	Constant wear garment, left shoulder under PLSS shoulder strap

TABLE II (Continued)

EXPERIMENT II-a, II-b, AND II-c THERMOCOUPLE LOCATIONS

CHANNEL NO.		CODE	LOCATION AND REMARKS
<u>II-a</u>	<u>II-b,c</u>		
14	13	I-13	Constant wear garment, left shoulder
15	14	I-14	Constant wear garment, lower back torso below PLSS
16	15	I-15	Inner boot, right foot
17	16	I-16	Inner boot, left foot
18	17	I-17	Sock, right ankle
19	18	I-18	Constant wear garment, left front shin
20	19	I-19	Helmet pressure visor (center)
21	20	I-20	Helmet pressure visor (left side)
43	41	I-41	Constant wear garment, outside, upper right arm

The temperature measurements taken on the dummy surface were as follows: () - denotes brown recorder channel no.

22	(6)	I-21	Outer, right shoulder
23	(7)	I-22	Outer, right elbow
24	(8)	I-23	Upper, right chest
25	(9)	I-24	Upper, left chest
26		I-25	Front, left shoulder
27	(10)	I-26	Front, left forearm
28	(11)	I-27	Front, right thigh
29	(12)	I-28	Front, right shin
31	(13)	I-29	Front, left thigh
32	(14)	I-30	Front, left shin
33	(15)	I-31	Back, left shoulder

TABLE II (Continued)

EXPERIMENT II-a, II-b, AND II-c THERMOCOUPLE LOCATIONS

CHANNEL NO.		CODE	LOCATION AND REMARKS
<u>II-a</u>	<u>II-b,c</u>		
34	(16)	I-32	Back, left forearm
35	(17)	I-33	Upper, right back
36	(18)	I-34	Lower, left back
37	(19)	I-35	Back, right shoulder blade
38	(20)	I-36	Back, left thigh
39		I-37	Back, left calf
40	(21)	I-38	Back, right thigh
41	(22)	I-39	Back, right calf
42	(23)	I-40	Forehead of dummy
<p>The temperature measurements on the outer surface of the pressure suit were as follows:</p>			
44	42	OPG-1	Outside front neck ring
45	43	OPG-2	Outer surface feeding port
46	44	OPG-3	Head suspension adjustment knob (right side only)
47	45	OPG-4	Outside back of helmet
48	46	OPG-5	Outside right wrist ring
49	47	OPG-6	Outer suit surface, below crossed portion of PLSS harness
50	48	OPG-7	Outside lower torso, left side
51	49	OPG-8	Outside suit surface, left shoulder blade where PLSS rests on suit
52	50	OPG-9	Right sole of pressure boot
53	51	OPG-10	Left sole of pressure boot
54	52	OPG-11	Surface of bioinstrumentation plug

TABLE II (Continued)

EXPERIMENT II-a, II-b, AND II-c THERMOCOUPLE LOCATIONS

CHANNEL NO.		CODE	LOCATION AND REMARKS
<u>II-a</u>	<u>II-b, c</u>		
55	53	OPG-12	Right thigh, under center of vertical cut in thermal garment
56	54	OPG-13	Right thigh, 3 inches from vertical cut in thermal garment (toward outside of leg)
57	55	OPG-14	Right thigh, at top end of vertical cut in thermal garment
58	56	OPG-15	Left thigh, under center of horizontal cut in thermal garment
59	57	OPG-16	Left thigh, at outside end of horizontal cut in thermal garment
	58	OPG-17	Left thigh, 3 inches vertically up from center of horizontal cut in thermal garment
61	59	OPG-18	Right thigh, under outer layer of pressure garment, under cut in thermal garment
62	116	OPG-19	Left thigh, under outer layer of pressure garment, under cut in thermal garment
The temperature measurements on the inside layer of the thermal garment were as follows:			
63	61	ITG-1	Back of helmet pouch
64	62	ITG-2	Back of right glove, above adjusting strap
65	63	ITG-3	PLSS pouch next to inner temperature measurement location
66	64	ITG-4	Outer side, right elbow
67	65	ITG-5	Right thigh, above bioinstrumentation plug
68	66	ITG-6	Front, left, lower torso
69	67	ITG-7	Front, left shoulder
70	68	ITG-8	Bottom, inner right thermal garment sole
71	69	ITG-9	Bottom, inner left thermal garment sole

TABLE II (Continued)

EXPERIMENT II-a, II-b, AND II-c THERMOCOUPLE LOCATIONS

CHANNEL NO.		CODE	LOCATION AND REMARKS
<u>II-a</u>	<u>II-b, c</u>		
72	70	ITG-10	Back right elbow
73	71	ITG-11	Front left knee
74	72	ITG-12	Back left calf
75	73	ITG-13	PLSS pouch, lower left surface of pack
76	74	ITG-14	Outer upper right arm, (just below shoulder)
77	75	ITG-15	Outer, center, upper right arm (between ITG-4 and ITG-14)
78	76	ITG-16	Right thigh at edge of cut
79	77	ITG-17	Left thigh at edge of cut
The temperature measurements on the outer layer of the thermal suit were as follows:			
80	78	OTG-1	Front, above neck ring temperature location
81	79	OTG-2	Back of helmet pouch
82	80	OTG-3	Back of right hand, above adjusting strap
83	81	OTG-4	Back of PLSS pouch
84	82	OTG-5	Outer right elbow
85	83	OTG-6	Front right thigh, above bioinstrumentation plug
86	84	OTG-7	Back of thermal garment just below PLSS pouch
87	85	OTG-8	Front, left, lower torso
88	86	OTG-9	Left shoulder, front
89	87	OTG-10	Right, bottom sole of thermal boot
91	88	OTG-11	Bottom, left sole
92	89	OTG-12	Back right elbow

TABLE II (Continued)

EXPERIMENT II-a, II-b, AND II-c THERMOCOUPLE LOCATIONS

CHANNEL NO.		CODE	LOCATION AND REMARKS
<u>II-a</u>	<u>II-b,c</u>		
93	117	OTG-13	Front left knee
94	91	OTG-14	Back left calf
95	92	OTG-15	Outer, upper right arm (just below shoulder)
96	93	OTG-16	Outer, center, upper right arm (between OTG-5 and OTG-15)
97	94	OTG-17	Top of diamond pattern on chest
98	95	OTG-18	Right-hand side of diamond pattern on chest
99	96	OTG-19	Bottom of diamond pattern on chest
100	12	OTG-20	Left hand side of diamond pattern on chest
101	25	OTG-21	Top of diamond pattern on back
102	37	OTG-22	Left hand side of diamond pattern on back
103	21	OTG-23	Bottom of diamond pattern on back
104	22	OTG-24	Right-hand side of diamond pattern on back
105	23	OTG-25	Right thigh, near edge of cut
106	24	OTG-26	Left thigh, near edge

The temperature measurements taken on the simulated PLSS were as follows:

107	38	BP-1	Inside back wall
108	26	BP-2	Inside pack
109	27	BP-3	Heater block
110	28	BP-4	Inside front wall, upper portion where pack rests on suit
111	29	BP-5	Outer surface, back shell
112		BP-6	Outer surface of control knob

TABLE II (Continued)

EXPERIMENT II-a, II-b, AND II-c THERMOCOUPLE LOCATIONS

CHANNEL NO.	CODE	LOCATION AND REMARKS
<u>II-a</u>	<u>II-b,c</u>	
The special temperature measurements taken were as follows:		
113	40 SL-1	Bottom of walking boot
114	31 SL-2	Inlet gas temperature #1
115	32 SL-3	Inlet gas temperature #2
116	33 SL-4	Outlet gas temperature #1
117	34 SL-5	Outlet gas temperature #2
118	35 LS-1	Left side (facing lamps) of lunar surface simulator (spacecraft on II-a)
119	36 LS-2	Right side (facing lamps) of lunar surface simulator (spacecraft on II-a)

NOTES:

- (1) On Test II-a, the following thermocouples were not utilized: I-12, I-25, I-37, OPG-17, ITG-16, ITG-17, OTG-25, OTG-26, and BP-6. See Note (4).
- (2) On Test II-b, the following thermocouples were not utilized: I-2, OTG-19, OTG-25, OTG-26, ITG-16, and ITG-17. See Note (4).
- (3) On Test II-c, the following thermocouples were not utilized: I-2, OPG-11, OPG-16, (good on Test Point No. 1 only), OTG-10, and OTG-19. See Note (4).
- (4) These thermocouples either did not apply to this particular test or could not be used due to a malfunction. See Notes (1) through (3).

thermocouples located on the outside surface of the pressure suit were either sewn into the outer surface layer or secured by Eastman 910 cement.

The thermocouples located on the interior and exterior surfaces of the thermal garment were sewn into the nylon cloth layer and the bead positioned so as to be in physical contact with the nylon cloth. Those thermocouples located on the exterior surface of the thermal garment were painted with Vita-Var paint No. 15966, Formulation PV100 in order to reduce the error in the indicated temperature due to differences in the emittance and absorptance characteristics of the thermocouples and the nylon fabric to which they were attached.

The gas inlet and outlet temperature thermocouples were mounted in the inlet and outlet gas lines by Conax thermocouple glands. The thermocouples located on the helmet were secured by small patches of transparent scotch tape.

Pressures - Suit pressures were measured in order to control the test for operation at suit design pressure and as a matter of record. Suit inlet pressure was measured via a pressure transducer (Dynisco Model APT 25-10) mounted in a manifold in the oxygen inlet hose near the entrance of the suit. The temperature of the inlet oxygen was sufficiently high to maintain the transducer temperature within its specified temperature range of -65°F to $+300^{\circ}\text{F}$. Pressure in the helmet was measured by a transducer (Dynisco APT 25-10) cemented under the chin of the dummy with Densifoam cement. The temperature inside the helmet was within the specified operating temperature range of the transducer. The suit pressure drop transducer (Dynisco Model PT 14-05) was connected between the inlet gas manifold and the outlet gas manifold. A strip heater was installed on this transducer to maintain the temperature of the transducer within its specified operating temperature range of -65°F to $+300^{\circ}\text{F}$. Each of the exposed pressure transducers was wrapped with superinsulation to reduce radiant heat loss to the chamber walls.

The pressure transducers incorporate a miniature unbonded strain gauge in the configuration of a four active-arm resistive Wheatstone bridge. The output voltages of the three gauges were connected to a bridge balance box which served to zero the gauges at some reference pressure. The signals from the bridge balance box were recorded continuously by a Honeywell Elektronik 17 strip chart recorder. Figure 19 shows a block diagram of the suit pressure instrumentation system.

Suit Gas Flow - This measurement was made in order to determine that the gas flow rate through the suit was within the limits specified for the test conditions.

The gas flow rate measurement utilized a Cox type 12, series 106, volume flowmeter (range 1.77 to 23.0 SCFM) installed in the suit inlet line. The Cox flowmeter provided visual readout only.

Suit Leakage - Suit static leakage was measured at several points throughout the test series. Leakage was measured by a Hastings-Raydist, Model LF-1000, mass flowmeter with a range from 0 to 1000 SCCM. This meter provides both visual and electrical readout; however, only visual readout was utilized. The sensor for this system was installed in the suit gas feed system as shown in Figure 17.

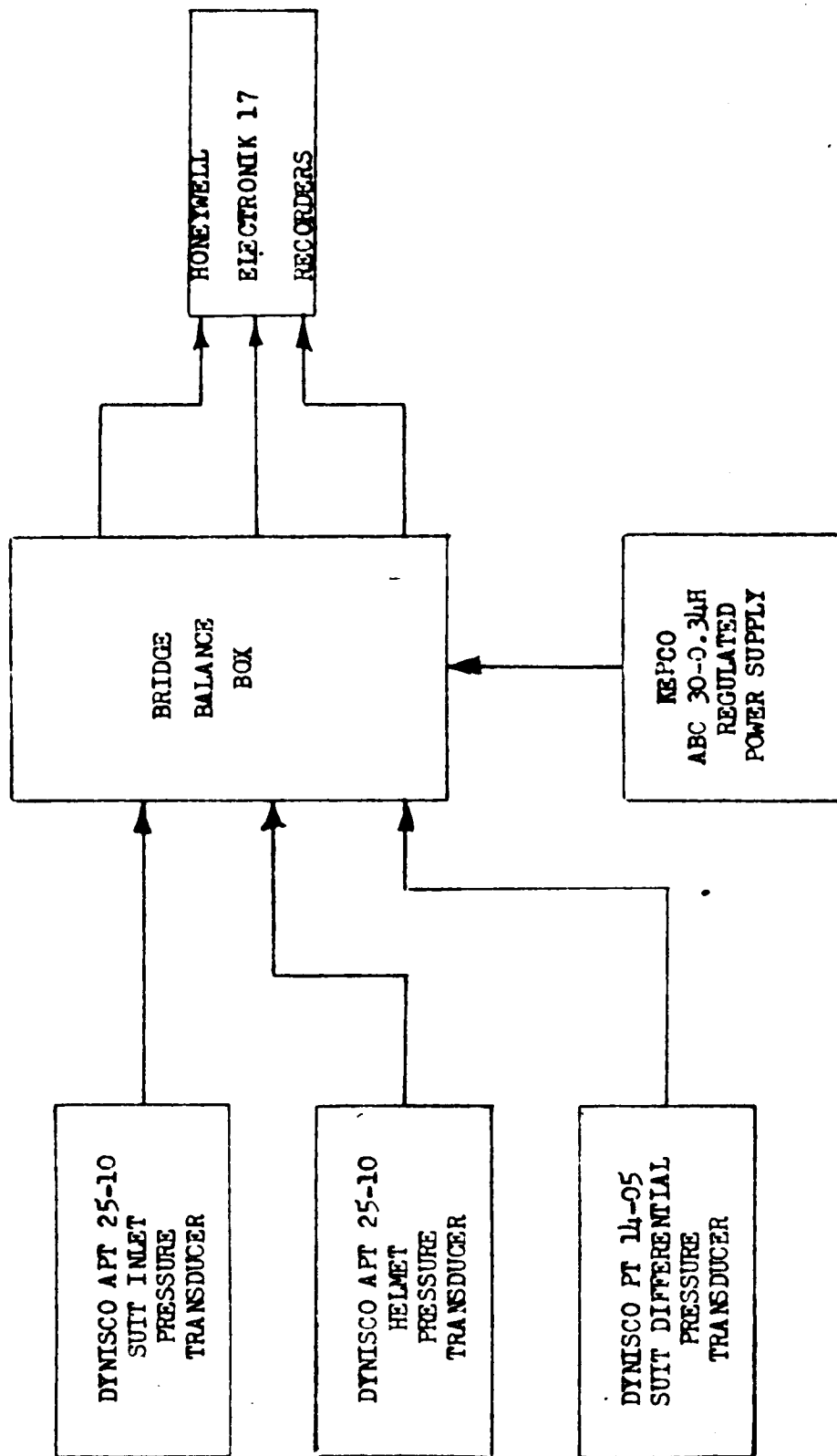


FIGURE 19 BLOCK DIAGRAM OF SUIT PRESSURE INSTRUMENTATION

In order to locate the general area of any leak which might have developed during the course of a test, a Consolidated Vacuum Co., Model PHG-026, six channel, cold cathode Phillips Ionization Gauge system with a pressure range from 1×10^{-7} to 0.5 mm Hg was installed at various locations about the suit. These gauges were coded and positioned as follows:

- P-1 Middle of chest, between suit and thermal garment.
- P-2 Middle of back, between suit and thermal garment.
- P-3 Right wrist disconnect bearing.
- P-4 Left wrist disconnect bearing.
- P-5 Helmet disconnect bearing.
- P-6 Right leg next to biomedical connector, between suit and thermal garment.

The use of a pressure gauge system to locate the general area of a leak was justified on the basis that a leak would produce a measureable increase in pressure in the local area of the leak.

Sound Level in Helmet - This measurement was made to provide an indication of the sound level in the helmet when the suit pressure relief valve is opened. An Astatic Model 332 crystal microphone was located under an earphone of the helmet at the dummy's ear. The output of the microphone was recorded on a Sony Model TC-200 tape recorder for later playback of the sound produced by opening of the suit pressure relief valve.

3.4.2 FACILITY INSTRUMENTATION

The SES data system monitors facility operation, collects data pertinent to the test, and facilitates recording of basic test data plus substantiating data. The recording devices utilized for acquisition of data included:

1. Recorders: Brown multipoint, 24 channel.
2. Digital Voltmeter: Cubic Model VR71P, 300 channel system with automatic sequential print out.

Instrumentation feed-throughs in the chamber walls accommodate the following:

1. 198 copper-constantan thermocouples.
2. 108 iron-constantan thermocouples.
3. 72 chromel-alumel thermocouples.

Feed-throughs are also provided for cooling water, gas flow and power into the chamber.

The following instrumentation is installed at the SES for measuring and recording SES chamber pressure:

1. CVC GMA-140 Magnavac (Range 760 mm to 10^{-3} mm Hg).
2. CVC GIC-100 Ionization gauge (Range 10^{-3} to 10^{-10} mm Hg).
3. CVC PHG-9 Phillips gauge (Range 0.5 to 10^{-3} mm Hg).
4. CVC GM 110 McLeod gauge (For vacuum calibration).

A CEC Model 24-120 mass spectrometer is used for vacuum leak detection.

3.4.3 DATA RECORDING AND REDUCTION

Data measurements made during the tests described in this report were recorded and processed by the methods discussed below.

(a) Suit and Dummy Temperatures were recorded as millivolt readings by the digital voltmeter system shown on Figure 20 or directly as temperatures on Brown multipoint recorders. Data channel number/recorder correlations are identified on Table II. Digital voltmeter and Brown recorder records were manually transcribed onto computer input data sheets. The data was subsequently computer processed, tabulated and plotted at NASA-MSC.

(b) Suit Pressure measurements (reference paragraph 3.4.1) were recorded on strip recorders.

(c) Suit Gas Flow measurement and recording methods are discussed in paragraph 3.4.1.

(d) Suit Leakage measurements were manually recorded.

(e) Helmet Noise was recorded as indicated in paragraph 3.4.1.

(f) Log Book - SES systems operation and the test procedure as accomplished were recorded by the test conductor in the facility log book and in the record test plan.

3.4.4 DATA ACCURACY

The following is a summary of estimated data accuracies.

- (a) Temperature: $\pm 3.11^{\circ}\text{F}$ (in range of -150°F to -75°F).
 $\pm 1.66^{\circ}\text{F}$ (in range of -75°F to $+200^{\circ}\text{F}$).

(Note: The temperature accuracies do not consider possible errors attributable to attachment methods. Attachment errors are discussed in Appendix D of this report.)

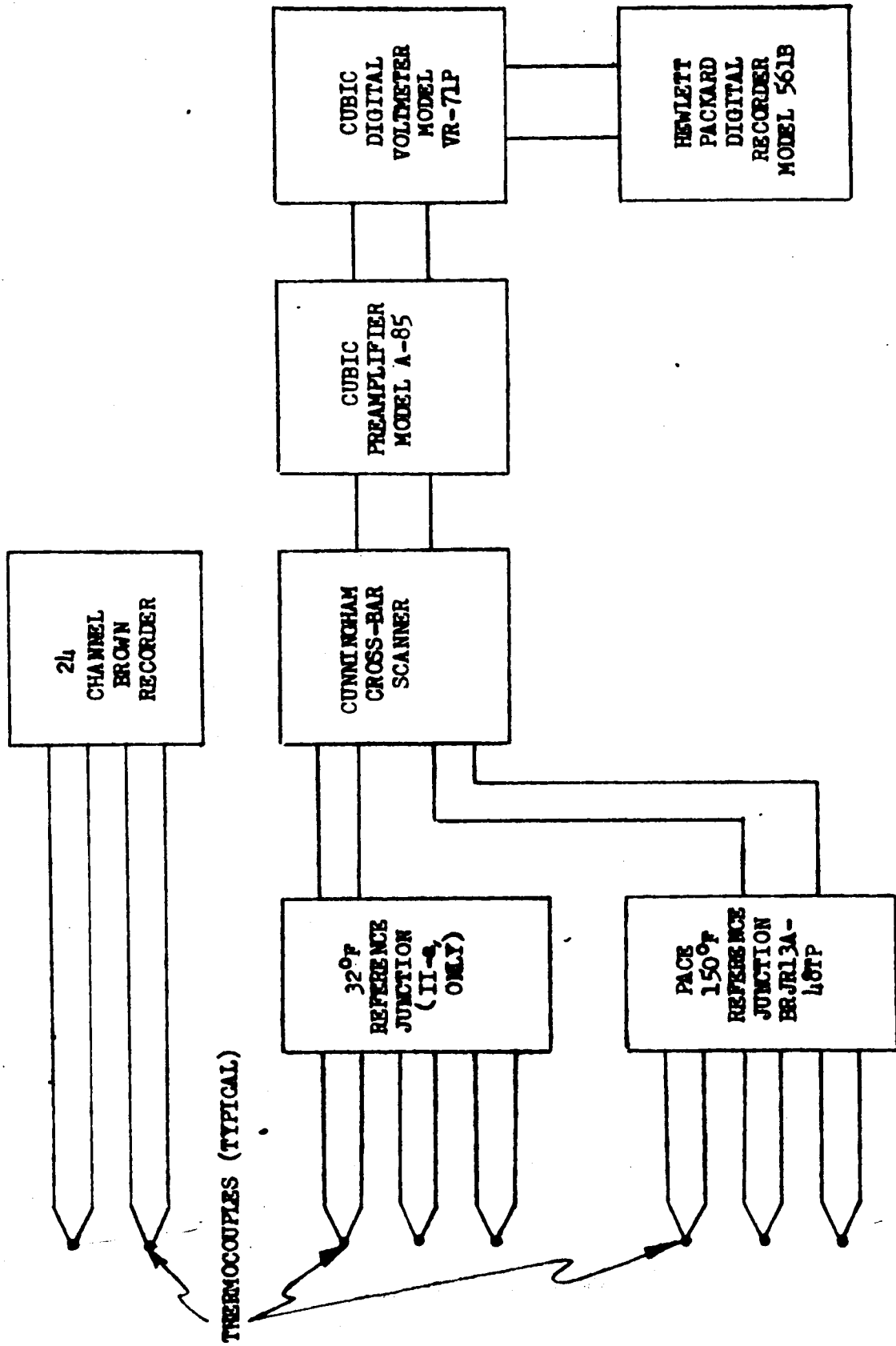


FIGURE 20 BLOCK DIAGRAM OF SUIT THERMOCOUPLE INSTRUMENTATION

- (b) Pressure: Suit inlet, ± 0.104 psia
 Suit helmet, ± 0.104 psia
 Suit pressure drop, ± 0.0025 psia
- (c) Gas Flow: Cox Rotameter, $\pm 1.05\%$ of indicated flow.
- (d) Suit Leakage: ± 24.5 SCCM
- (e) Leak Detector: Estimated $\pm 20\%$ qualitative measurement only.
- (f) Sound Level: No precise calibration, qualitative measurement only.

A derivation of the accuracies presented above and a discussion of thermocouple attachment errors are presented in Appendices C and D, respectively.

3.5 TEST PROCEDURES

Table III summarizes the tests performed during Experiments II-a, II-b and II-c. A brief description of each test point together with other pertinent information is given in the table.

3.6 TEST VARIANCES

The following paragraphs discuss significant variances in test conditions from true space or lunar conditions and an evaluation of their magnitudes and effects on the test results.

3.6.1 SOLAR ENERGY VARIANCES

The simulated solar radiation provided by the SES solar simulator lamps differs from the true solar in (1) spectral energy distribution, (2) spatial non-uniformity of flux level and (3) collimation. Spectral mismatch has the greatest potential effects on the test results because the absorptivity of the suit materials to SES lamp radiation is considerably higher than their absorptivity to true solar radiation. In order to reduce the effects of spectral differences, the SES solar lamps were operated during Experiments II-a, II-b and II-c such that the total solar energy absorbed by the suit materials was equal to the true solar energy that would be absorbed. This was accomplished by operating the lamps at a lower flux level such that, approximately,

$$\alpha_{SES} S_{SES} = \alpha_{solar} S_{solar}$$

where α is the product of absorptivity of the EMU thermal cover material to the incident flux "S." (Subscript "SES" indicates test conditions and "Solar" indicates space conditions with true solar). To arrive at a test solar flux level to meet this requirement, the spectral reflectance of the EMU thermal cover material (Figure 24) was integrated with the SES lamp energy spectrum (Table I) and with the true solar energy spectrum (by Johnson, Reference 2) to determine the material reflectivity (ρ).

SUMMARY OF

EXPERIMENT	SUIT CONFIGURATION	TEST POINT	TEST POINT DESCRIPTION
IIa Day No. 1 1/6/65 To 1/7/65	Prototype Apollo Extravehicular Mobility Unit with PLSS shell. Suit supported from helmet with clear pressure visor exposed. Right arm raised.	1	Cold soak (no incident radiation). Dummy surface temperature controlled with dummy heaters.
		2	Cold soak. Dummy surface temperature controlled with inlet gas.
		3	Simulated translunar extravehicular conditions (facing sun). Solar on at 0230
		4	Simulated translunar extravehicular conditions (back to sun). Solar on at 0545
IIa Day No. 2 1/7/65 To 1/8/65	(Ref. Figure 21)	1	Cold soak. Dummy surface temperature controlled with inlet gas.
		2	Cold spacecraft surface pressed against right side of cold suit. Surface/suit contact made at 0146
		3	Hot spacecraft surface pressed against right side of cold suit. Surface/suit contact made at 0439
		4	Deep Space extravehicular conditions (Right side to sun) Solar on at 0544
		5	Cold spacecraft surface pressed against right side of hot suit. Surface/suit contact made at 0850
		6	Simulated translunar extravehicular conditions (right side to sun). Solar on at 0951
		7	Hot spacecraft surface pressed against right side of hot suit. Suit/surface contact made at 1100
IIb 1/20/65 To 1/22/65	Same as IIa except right arm lowered (Ref. Figure 22)	1	Simulated hot lunar surface conditions. No solar radiation.
		2	Simulated hot lunar surface conditions with solar radiation.
		3	Transient cool down. Simulated ingress into lunar cave. Solar off at 1433

TABLE III

TEST CONDITIONS FOR EXPERIMENTS IIa, IIb AND IIc

	SOLAR LAMPS	SUIT ORIENTATION	SPACECRAFT SURFACE	LUNAR SIMULATOR (VERTICAL)	LUNAR SIMULATOR (HORIZONTAL)
d	Off		Unheated	Not Applicable	Not Applicable
re	Off		↑	↑	↑
	On	Facing Solar Lamps			
	On	Back To Solar Lamps	↓		
	Off		Unheated		
	Off	Right Side To Spacecraft	LN ₂ Cooled		
	Off	Right Side To Spacecraft	Heated		
	On	Right Side To Solar Lamps	Unheated		
	On	Right Side To Spacecraft	LN ₂ Cooled		
	On	Right Side To Solar Lamps	Heated	↓	↓
	On	Right Side To Spacecraft	Heated	Not Applicable	Not Applicable
	Off		Not Applicable	On	Heated
ons	On	Facing Solar Lamps	↑↓	On	Heated
	Off		Not Applicable	Off	LN ₂ Cooled

	PLSS HEATER	SUIT RELIEF VALVE	DUMMY HEATERS	TEST POINT DURATION
	Off	Closed	On	4 Hours (1800-2200)
	Off	↑	Off	3.75 Hours (2246-0230)
	Power Input On		↑	3.25 Hours (0230-0540)
	20-30 watts On			3 Hours (0540-0840)
	Off			4 Hours (2127-0140)
	↑			2.5 Hours (140-0320)
				1.00 Hours (0440-0540)
				3 Hours (0543-0840)
				1 Hour (0840-0940)
				1.15 Hours (0940-1050)
				1 Hour (1050-1200)
				2.5 Hours (2358 -0230)
	↓	↓	↓	3.3 Hours (1115-1433)
	Off	Closed	Off	0.5 Hours (1433-1503)

EXPER- IMENT	SUIT CONFIGURATION	TEST POINT	TEST POINT DES
IIb Cont'd		4	Simulated egress from lunar surface. Solar on at 1503
		5	Simulated hot lunar state condition).
		6	Simulated ingress in Solar off at 1837
		7	Simulated egress from lunar surface.
		8*	Simulated hot lunar (no solar radiation), partially open.
		9*	Simulated hot lunar Relief valve partiall
IIc 1/27/65	Same as IIb Except for Tears Made in Thermal Garment (Ref. Figure 23)	1	Simulated hot lunar state condition).
		2	Simulated hot lunar Vertical tear on upper
		3	Simulated hot lunar Inverted "V" tear on
		4	Simulated hot lunar No solar radiation.
		5	Simulated hot lunar Relief valve closed.
		6	Cold soak. Dummy sur controlled with inlet
		7	Simulated solar radia transient condition.
			*Test Point No. 9 was com

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TABLE III (CONTINUED)

SUMMARY OF TEST CONDITIONS FOR EXPERIMENTS IIa,

DESCRIPTION	SOLAR LAMPS	SUIT ORIENTATION	SPACECRAFT SURFACE	LUNAR SIMULATION (VERTICAL)
From cave to hot	On	Facing Solar Lamps	Not Applicable	On
Surface (steady)	On	Back to Solar Lamps	↑	On
to lunar cave.	Off	Back to Solar Lamps		Off
From cave to hot	On	Back to Solar Lamps	↑	On
Surface conditions, Relief valve	Off			↓
Surface conditions, fully open.	On	Facing Solar Lamps		On
Surface (steady)	On	Facing Solar Lamps	↑	
Surface conditions, right leg.	On	Facing Solar Lamps		
Surface conditions, upper left leg.	On	Facing Solar Lamps	↑	
Surface conditions.	Off			↓
Surface conditions.	On	Facing Solar Lamps		On
Surface temperature gas.	Off		↓	Off
Simulation (no lunar)	On	Facing Solar Lamps	Not Applicable	Off

Completed prior to Test Point No. 8

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I Ib AND I Ic

R TOR AL)	LUNAR SIMULATOR (HORIZONTAL)	PLSS HEATER	SUIT RELIEF VALVE	DUMMY HEATERS	TEST POINT DURATION
	Heated	Off	Closed	Off	0.5 Hours (1503-1533)
	Heated	↑	↑	↑	3 Hours (1533-1832)
	LN ₂ Cooled		↓		0.5 Hours (1835-1907)
	Heated		Closed		0.5 Hours (1907-1941)
	↕		Partially Open		3.33 Hours (2232-0200)
	Heated		↑		2.8 Hours (1941-
	↑		(Relief Valve Release at 1215)		3.5 Hours (0855-1230)
			↓		1 Hour (1230-1340)
			↓		10 Minutes (1340-1356)
			Partially Open		1 Hour (1355-1456)
	Heated		Closed		10 Minutes (1507-1517)
	Unheated	↓		↓	4.5 Hours (1516-1940)
	Unheated	Off	Closed	Off	0.5 Hours (1948-2022)

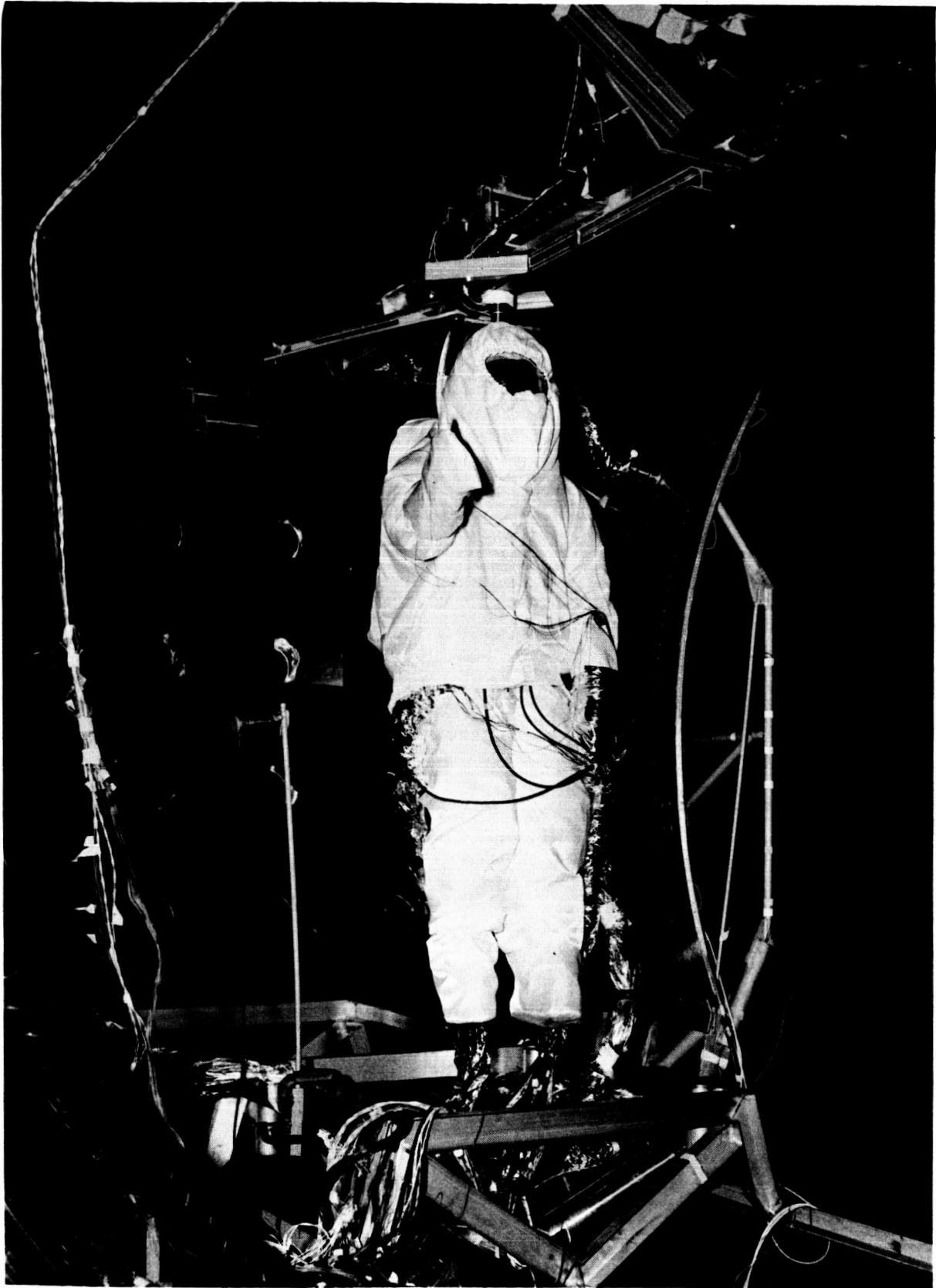


FIGURE 21 TEST SETUP FOR EXPERIMENT II-A

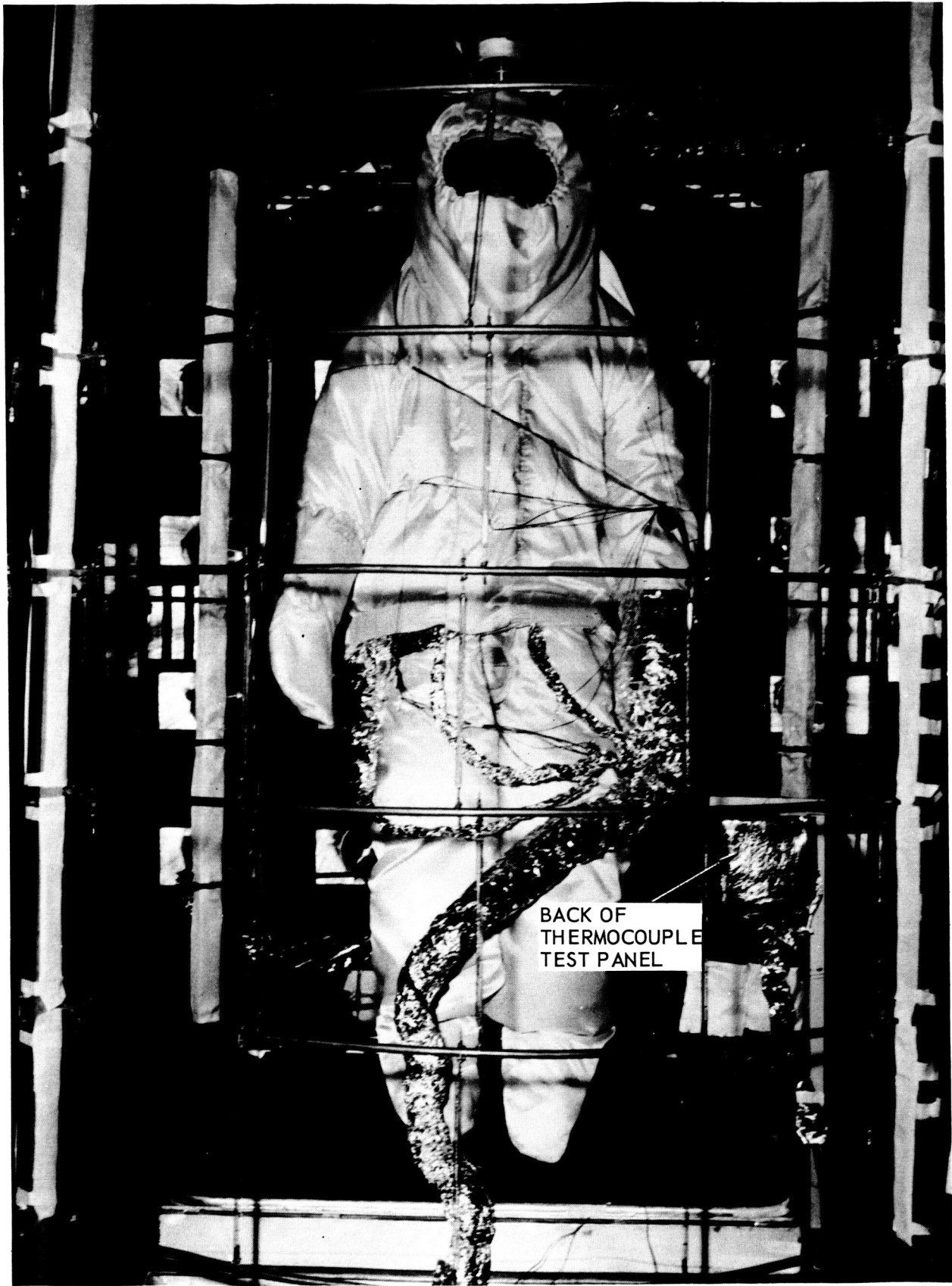
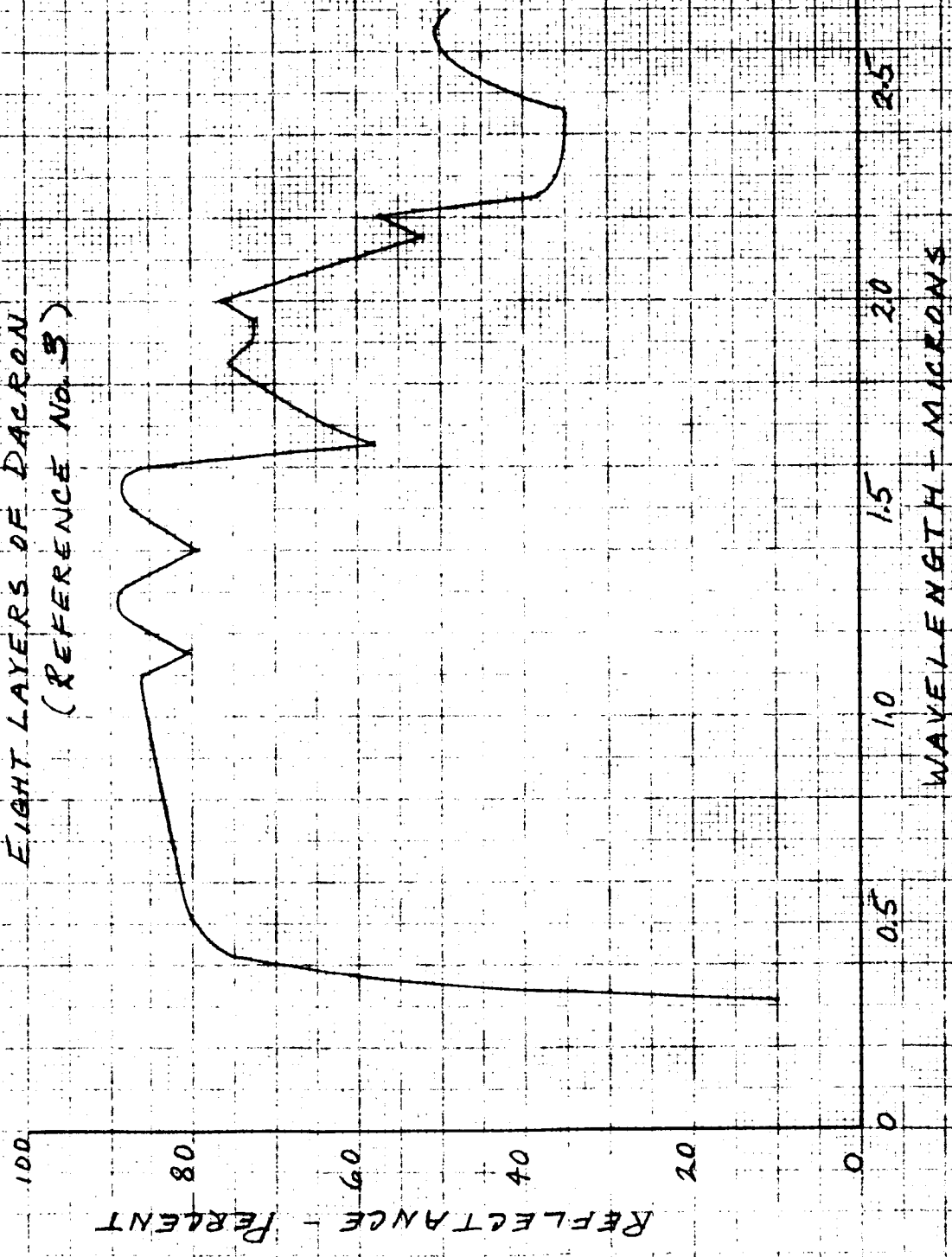


FIGURE 22 TEST SETUP FOR EXPERIMENT II-B



FIGURE 23 APOLLO EMU TEST SETUP FOR EXPERIMENT II-C

FIGURE 24
REFLECTANCE VS. WAVELENGTH FOR
EIGHT LAYERS OF DACRON
(REFERENCE No. 3)



$$\rho = \frac{\int \rho_{\lambda} E_{\lambda} d\lambda}{\int E_{\lambda} d\lambda}$$

The absorptivity was then determined by:

$$\alpha_{\text{SES}} = 1 - \rho_{\text{SES}}$$

or

$$\alpha_{\text{solar}} = 1 - \rho_{\text{solar}}$$

The computed values of absorptivity of the dacron thermal garment cover of the EMU are:

$$\alpha_{\text{SES}} = 0.400$$

$$\alpha_{\text{solar}} = 0.233$$

The required test flux level (to compensate for SES solar/true solar spectral differences) was then determined to be:

$$S_{\text{SES}} = \frac{\alpha_{\text{solar}}}{\alpha_{\text{SES}}} \times S_{\text{solar}} = \frac{.233}{.400} S_{\text{solar}}$$

$$= 58.5\% \text{ of one Solar Constant} = 256 \text{ BTU/hr-ft}^2$$

However, for stable operation, the SES lamps cannot be operated below a mean flux level of about 65% of the solar constant (288 BTU/hr-ft²). For that reason, the lamps were operated at 65% throughout the tests with the overall result that the mean $\alpha_{\text{SES}} S_{\text{SES}}$ product for the EMU under test was about 11% higher than desired. The corresponding increase in mean surface temperature (absolute values) on illuminated portions of the EMU was about 2.6% higher than would have been experienced under true solar illumination.

Another variance attributable to the SES solar source spectrum is the yellowing of surface materials. Yellowing of the EMU dacron cover is believed to result primarily from ultraviolet exposure. Since the SES lamps are richer than the sun in the ultraviolet, the one hours' exposure of materials to the SES lamps was equivalent to a longer exposure to true solar

(i.e., materials will yellow faster under SES lamp exposure than under solar exposure). However, to date no studies have been performed to determine the SES lamps' true solar exposure equivalent.

Figure 6 (paragraph 3.3.1) presented the actual test plane variations in SES solar flux. These variations are seen to range upward from about 58% to about 80%. From the discussion in the foregoing paragraph and recognizing that for the thermal garment outer layer temperature,

$$T \approx [\alpha_{SES} S_{SES}]^{1/4}$$

it is estimated that EMU test surface temperatures ranged from about the true solar value (58.5% SES solar flux required) up to approximately 8% higher than true solar illumination values.

The collimation angle of SES solar energy varies from 0° to 13° as a result of diverging projections of individual lamps. No quantitative estimates are made of the effects of collimation angle. However, the effects of this variance are estimated to be very small. This conclusion is based on observations made during Experiments II-b and II-c where a distinct shadow was seen to be projected onto the EMU by the 3/4-inch electrical conductors of the lunar vertical simulator. This observed shadow indicates that only a small amount of the total solar energy was incident at appreciable collimation angles.

3.6.2 LUNAR SURFACE SIMULATION VARIANCES

Hot Lunar Surface Flux Simulation

The thermal environment of the surface of the moon near the sub-solar point was simulated by the two-component simulator described in paragraph 3.3.2.3. The condition simulated was that of an astronaut standing on a plain or level surface. To arrive at a simulation objective, the following assumptions were made in determining the lunar surface fluxes that would be incident on an Apollo EMU on the surface of the moon.

- (a) Lunar noon (sun directly overhead)
- (b) Lunar albedo: 0.07 (Reference 4)
- (c) Steady state conditions
- (d) Surface is level to at least 50 feet from the suit
- (e) Upright EMU
- (f) Diffuse emission by the lunar surface
- (g) Incident solar flux: 442 BTU/hr-ft²

On the basis of these assumptions, the total hemispherical emission by the lunar surface is then $(1-.07) (442) = 412 \text{ BTU/hr-ft}^2$. Under these conditions, the lunar surface fluxes incident on portions of the EMU will be $412 \times F \text{ BTU/hr-ft}^2$ where F is the geometric form factor between an EMU surface and the plane lunar surface. Figure 25 is a summary of incident lunar surface fluxes on an Apollo EMU at lunar noon as a function of EMU surface orientation.

Figures 26 through 28 present a comparison of desired lunar fluxes on the EMU (based on the foregoing discussion) versus measured and computer values of fluxes actually provided by the test lunar simulators. (The methods by which the test flux values were arrived at are presented in Appendix B of this report). Figures 26 through 28 show close agreement with simulation objectives on vertical parts of the suit and less agreement on some parts of the suit facing upward or downward. The net or total heat incident on the entire suit, however, is in good agreement with simulation objectives.

Combined Simulated Lunar and Solar Fluxes

The total test environment can be compared with the total lunar surface environment by considering the sum of the lunar surface flux plus solar flux for both cases. (Values of both lunar and solar fluxes are discussed in the preceding paragraphs.) On the surface of the moon, maximum solar and maximum lunar radiation on a standing suit do not occur at the same time. Maximum total solar radiation intercepted by the suit will occur near sunup or sunset when the sun's rays are normal to the upright suit. Maximum lunar surface radiation on the suit will occur when the lunar surface is hottest, lunar noon with the sun's rays from overhead. Therefore, the two are never directly additive at their maximum values.

During Experiments IIb and IIc in the SES, however, maximum solar flux was intercepted by the test suit simultaneously with maximum lunar surface fluxes. Since both test fluxes have been measured and were directly additive, the total absorbed energy on the front of the suit (facing the solar) can be estimated.

$$\text{Absorbed SES Solar} = \alpha_{\text{SES}} S_{\text{SES}} = .40 \times 256 = 181 \text{ BTU/hr ft}^2$$

(Reference paragraph 3.6.1)

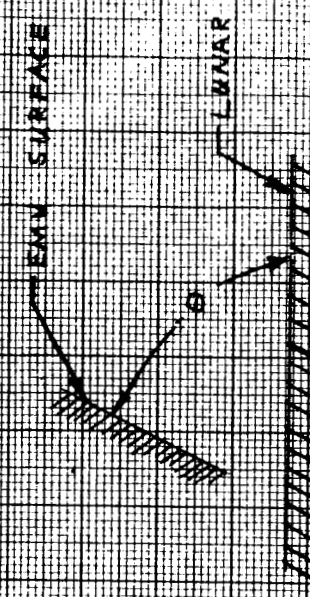
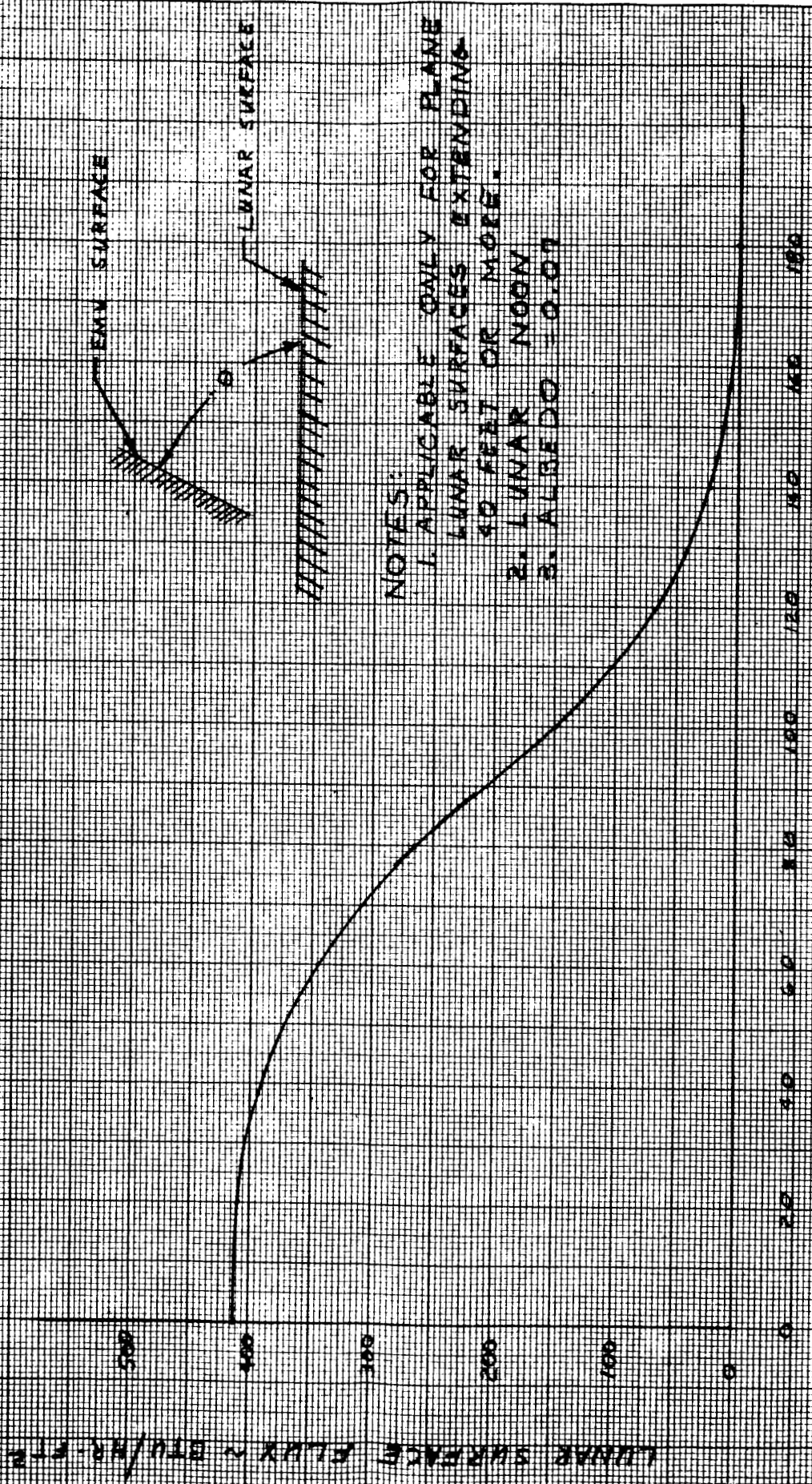
$$\text{Absorbed lunar flux} = .88 \times 206 = 181 \text{ BTU/hr ft}^2$$

(Based on thermal garment outer cover infrared emissivity and absorptivity = 0.88)

Then, the total energy absorbed from both sources by the suit facing the solar lamps was approximately 283 BTU/hr ft^2 . The corresponding value computed for a standing suit on a flat lunar surface is 212 BTU/hr ft^2 . The net result is that the test conditions were conservative for a suit on a lunar plain or relatively flat surface.

Although the test simulated the environment of a lunar plain, it is recognized that hills, crevices, etc. on the moon may present more severe environments. A discussion of the effects of such irregularities relative to the test environment is presented in Appendix B.

FIGURE 25
 PLANE LUNAR SURFACE FLUXES
 INCIDENT ON EMU



NOTES:
 1. APPLICABLE ONLY FOR PLANE LUNAR SURFACES EXTENDING 40 FEET OR MORE.
 2. LUNAR NOON
 3. ALBEDO = 0.07

EMU SURFACE DIRECTION WITH RESPECT TO LUNAR SURFACE, 0 DEGREES

FIGURE 26

TOTAL SIMULATED LUNAR SURFACE FLUXES ON FRONT OF THE APOLLO EMU (NOT INCLUDING SOLAR)

TOTAL, SUN IN LUNAR PLANE AT NOON

TOTAL FROM LUNAR SIMULATORS

NOTE: VERTICAL SIMULATOR TOTAL POWER IS 1.3 KW; HORIZONTAL SURFACE TEMPERATURES 220-230°F

CONTRIBUTION FROM HORIZONTAL SIMULATOR

VERTICAL DISTANCE ABOVE HORIZONTAL SIMULATOR SURFACE IN INCHES

INCIDENT FLUX ~ BTU/HR.FT²

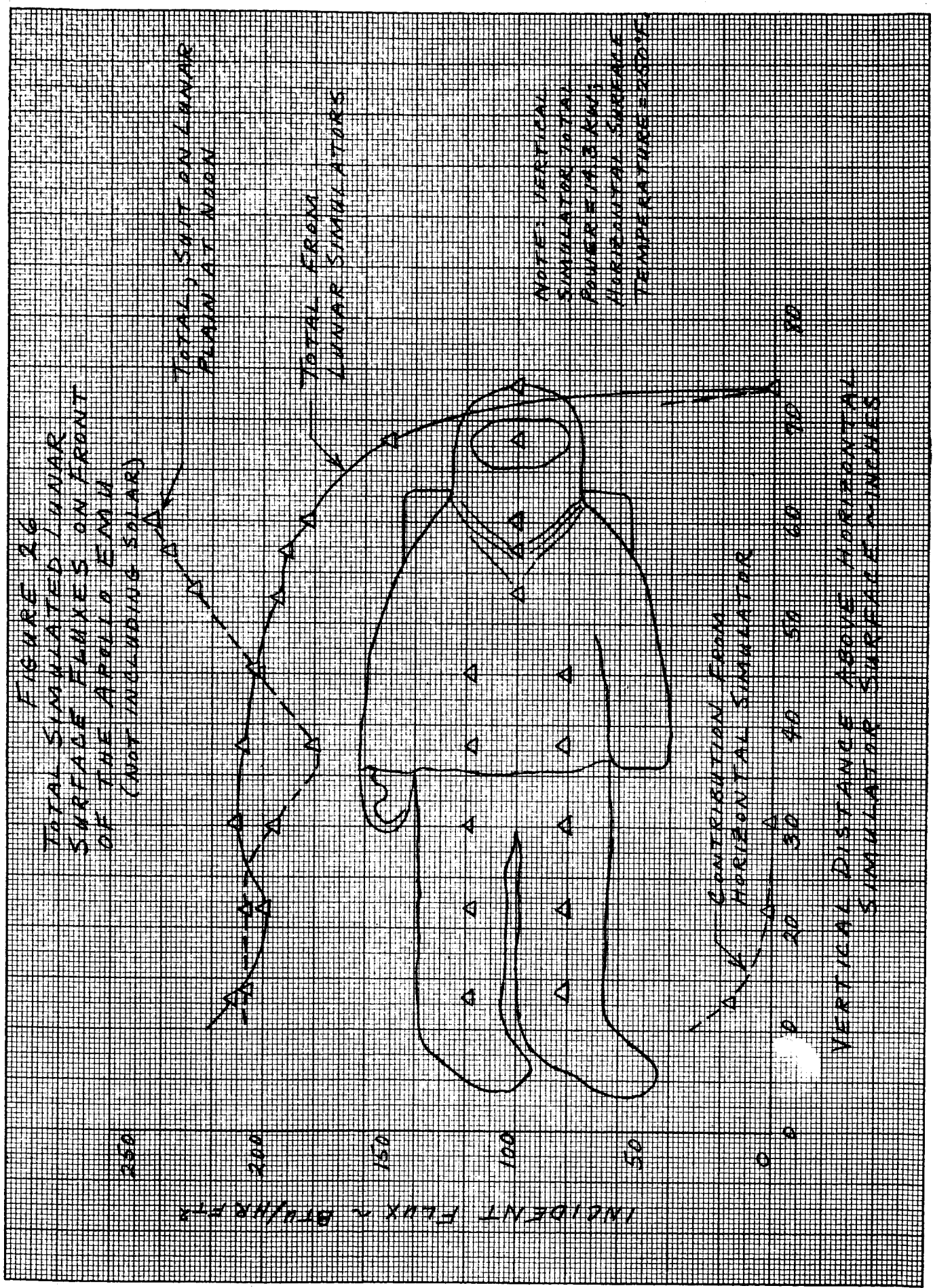
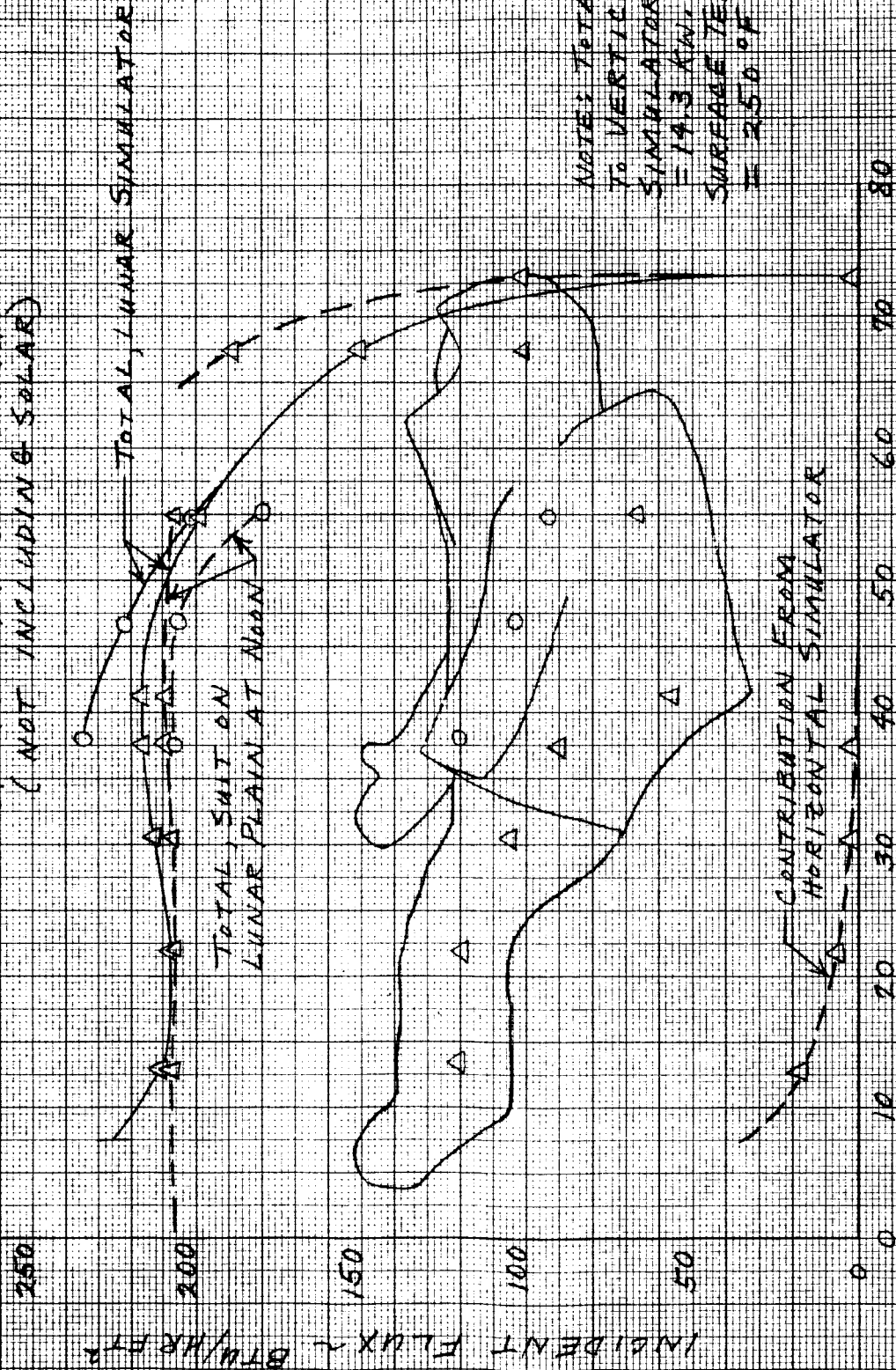


FIGURE 27
 TOTAL SIMULATED LUNAR
 SURFACE FLUXES ON SIDE
 OF THE APOLLO EMU
 (NOT INCLUDING SOLAR)

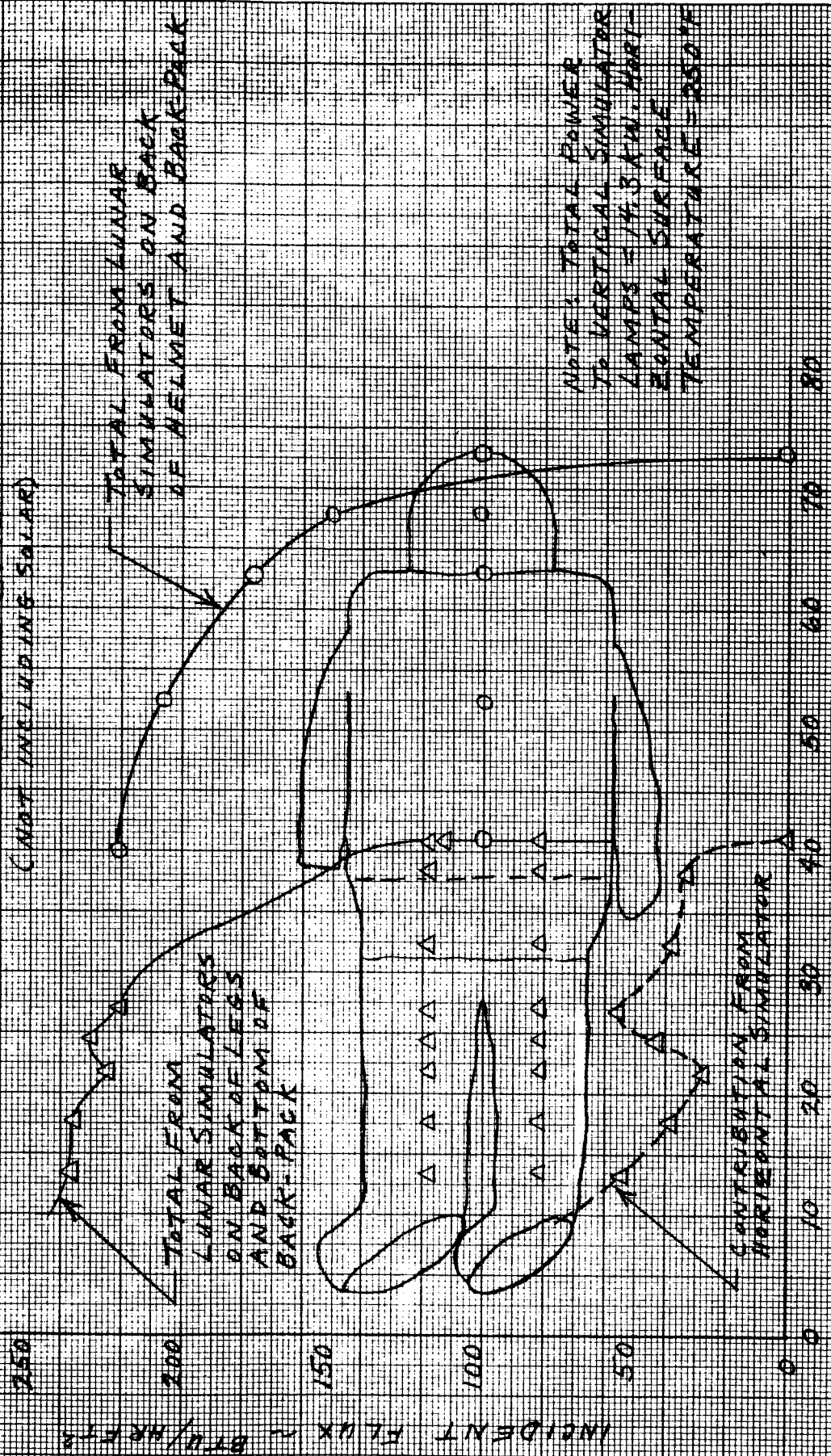


NOTES: TOTAL POWER
 TO VERTICAL LUNAR
 SIMULATOR LAMPS
 = 14.3 KW. HORIZONTAL
 SURFACE TEMPERATURE
 = 250 °F.

VERTICAL DISTANCE ABOVE HORIZONTAL
 SIMULATOR SURFACE - INCHES

FIGURE 18

TOTAL SIMULATED LUNAR SURFACE FLUXES ON BACK OF THE APOLLO EMU (NOT INCLUDING SALAR)



NOTE: TOTAL POWER TO VERTICAL SIMULATOR LAMPS = 14.3 A.W. HORIZONTAL SURFACE TEMPERATURE = 850°F

VERTICAL DISTANCE ABOVE HORIZONTAL SIMULATOR SURFACE IN INCHES

3.6.3 SES CHAMBER AND WALL VARIANCES

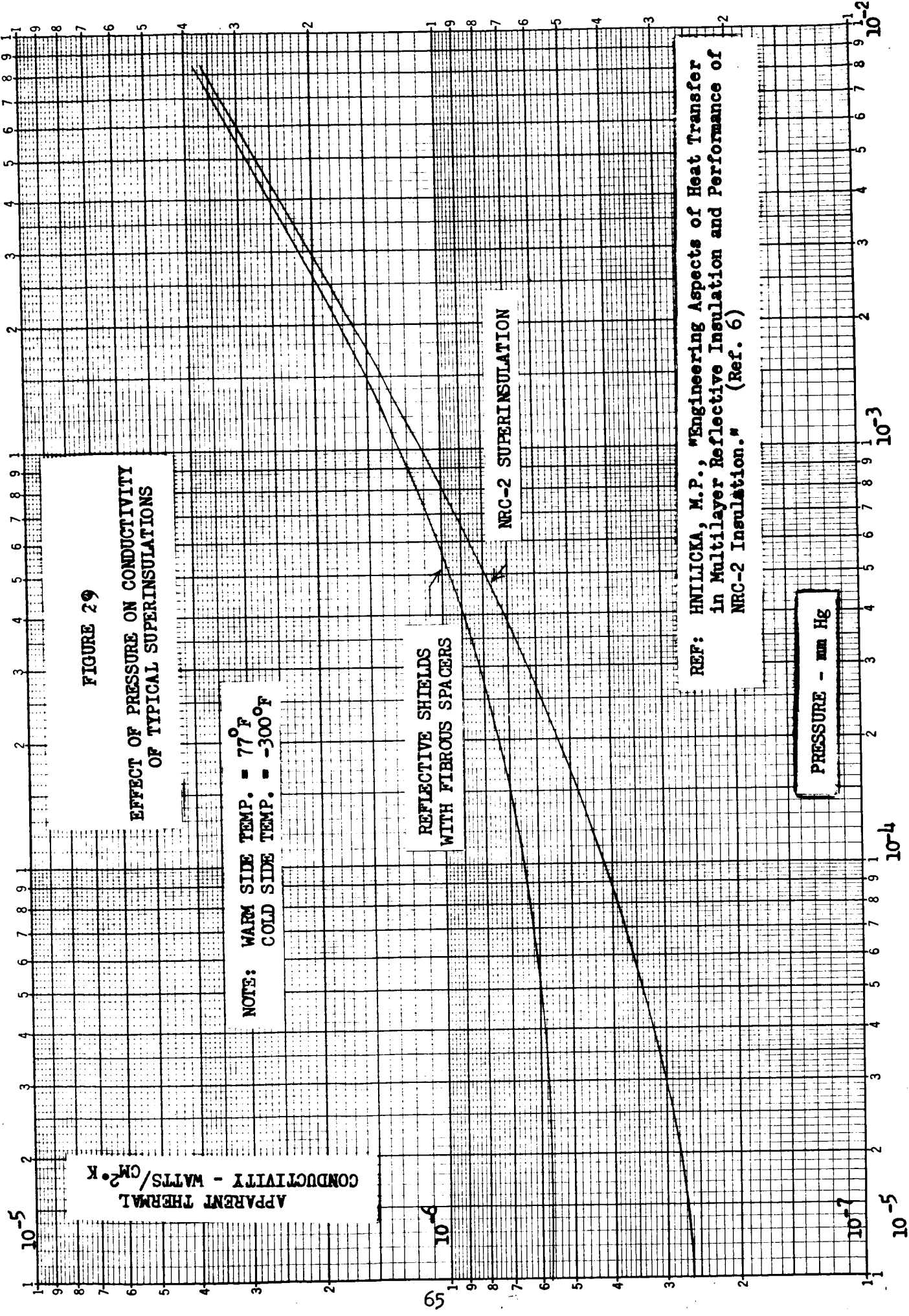
Variations due to the SES chamber and walls arise from (1) energy reflected from the walls onto the test article and (2) energy emitted by the solar simulation entrance ports.

The solar energy reflected from the rear wall was approximately 6.0 BTU/hr-ft². The fraction of this energy absorbed by the suit was the product of the interchange configuration factor and suit absorptance times the reflected energy or approximately 2.0 BTU/hr-ft².

When the solar lamps are operated, the quartz ports become hot as a result of absorbed flux and re-emit toward the test plane. The heat flux emitted by the ports has been measured as 30 BTU/hr-ft². This value drops to about 3.0 BTU/hr-ft² approximately two minutes after the lamps are turned off and the ports are allowed to cool.

3.6.4 SES PRESSURE VARIANCES

SES pressure during Experiments II-a, II-b and II-c is shown in Figures 2 through 5. With the suit relief valve closed a pressure of less than 4×10^{-5} mm Hg was maintained. During overpressurization of the suit, the suit pressure was regulated so that the flow through the relief valve did not drive the SES chamber pressure above approximately 5×10^{-4} mm Hg. This limit was set on the basis of Figure 29 which indicates that the thermal conductivity of typical superinsulations does not change appreciably below about 10^{-4} mm Hg. It is concluded that SES pressure did not perturb the test results.



4.0 RESULTS AND DISCUSSION

4.1 RESULTS

Tabulated temperature data for Experiments II-a, II-b and II-c are presented in Appendix E of this report. Plotted temperature data (all channels) are presented in Appendix G (Volume II of this Report). Appendix F Presents tabulations of other data (pressures and gas flow rates).

Tables IV and V present a summary tabulation of temperatures measured throughout the tests. The data presented on Tables IV and V are final values for steady state or near-steady state test points and is presented as a concise summary of steady state temperatures reached. Test points 3 and 5 of Experiment II-c were not included on Tables IV and V. These two test points were very short exposures of the torn thermal garment and a limited amount of transient data were measured. The data measured during test points 3 and 5, Experiment II-c are included in Appendix E.

4.2 DISCUSSION

4.2.1 SUIT TEMPERATURE AND PRESSURES

Apollo suit and thermal garment temperatures during cold soaks and exposure to solar radiation were comparable to corresponding measurements on the Gemini suit (Reference 5) under the same conditions. The thermal garment outer surface temperatures were approximately -210°F during cold soak and a maximum of approximately 110°F under exposure to direct solar radiation. Temperatures on the outside of the pressure suit (under the thermal garment) were above 60°F during cold soaks and generally less than body temperature under exposure to solar radiation.

The worst high temperature condition that the Apollo EMU was exposed to was that of combined hot lunar surface radiation plus solar radiation. For this condition, surface flux conditions at the lunar subsolar point were supplied and the solar radiation was directed horizontally onto the suit so that the fluxes were directly additive on the parts of the suit facing the solar. For these conditions, thermal garment surface temperatures up to 250°F were measured on the solar side of the EMU while, at the same time, the coolest parts of the thermal garment that were exposed to lunar radiation only were greater than 100°F. During the conditions of combined lunar and solar radiation exposure the outer layer of the pressure suit reached temperatures as high as 120°F. It should be pointed out, however, that 120°F was only about 10°F above the temperature of the dummy whose temperature had increased as a result of the net heat leak into the suit. If the dummy had been maintained at body temperature, it is expected that the outer surface of the pressure suit would have also been cooler.

Unheated dummy hands and feet were used for the Apollo EMU tests. During the tests the hands and feet were observed to reach much more extreme temperatures, both hot and cold, than did the rest of the dummy. This phenomenon with unheated hands and feet has been observed during other tests. Test temperatures of the dummy's hands and feet are not felt to be indicative of the response of human hands and feet under the same conditions. Better

T/C IDEN.	LOCATION AND REMARKS
I-1	Inside front neck ring
I-2	Inside feeding port
I-3	Inside back of helmet
I-4	Right middle finger
I-5	Back of right hand, beneath adjustment buckle
I-6	Inside right wrist ring of pressure suit
I-7	Constant wear garment, beneath crossed PLSS harness strap
I-8	Constant wear garment, outer side of right elbow
I-9	Inside wrist ring of right glove
I-10	Constant wear garment, lower left torso where suit is not
I-11	Constant wear garment, left shoulder blade where pack res
I-12	Constant wear garment, left shoulder under PLSS shoulder
I-13	Constant wear garment, left shoulder
I-14	Constant wear garment, lower back torso
I-15	Inner boot, right foot
I-16	Inner boot, left foot
I-17	Sock, right ankle
I-18	Constant wear garment, left front shin below PLSS
I-19	Helmet pressure visor (center)
I-20	Helmet pressure visor (left side)
I-21	Outer, right shoulder
I-22	Outer, right elbow
I-23	Upper, right chest
I-24	Upper, left chest
I-25	Front, left shoulder
I-26	Front, left forearm
I-27	Front, right thigh
I-28	Front, right shin
I-29	Front, left thigh
I-30	Front, left shin
I-31	Back, left shoulder
I-32	Back, left forearm

TABLE IV

SUMMARY OF TEST POINT FINAL TEMPERATURES

EXPERIMENT IIa

	CHANNEL NO.	IIa Day No. 1			
		1	2	3	4
	2	68	60	78	74
	3	58	46	74	56
	4	70	42	60	56
	5	-23	-47	-1	-30
	6	40	18	23	23
	7	62	46	64	42
e	8	70	60	78	74
	9	88	65	69	74
	10	61	46	43	42
compressed by straps	11	92	73	78	78
ts on suit	12	91	69	82	87
strap,	13	-	-	-	-
	14	-	64	78	74
	15	90	78	78	82
	16	36	23	24	29
	17	35	18	18	14
	18	65	51	56	60
	19	88	60	69	69
	20	50	37	78	42
	21	56	46	88	56
	22	72	69	74	78
	23	89	65	69	65
	24	92	69	78	78
	25	91	69	78	78
	26	-	-	-	-
	27	91	65	78	78
	28	93	78	78	78
	29	88	64	69	69
	31	94	74	78	78
	32	90	61	70	74
	33	94	61	74	78
	34	92	64	74	78

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IIa Day No. 2

1	2	3	4	5	6	7		
51	46	39	43	51	56	66		
9	-	118	122	121	118	121		
37	26	18	33	42	43	51		
-21	-41	-52	-11	-5	-1	4		
34	23	9	18	15	20	23		
47	42	28	32	33	37	37		
55	51	46	46	51	52	60		
60	56	51	60	60	63	65		
47	38	28	32	33	34	37		
65	57	51	46	51	56	56		
65	60	51	51	51	56	56		
-	-	-	-	-	-	-		
52	47	38	32	38	38	43		
66	65	60	60	60	61	61		
37	29	19	24	23	24	28		
38	33	23	10	9	9	5		
51	46	38	51	51	52	56		
50	47	39	34	37	42	42		
18	14	9	14	42	23	65		
37	33	28	33	65	39	74		
61	60	52	60	61	63	65		
56	51	46	56	57	60	61		
60	56	48	51	56	57	61		
60	56	46	46	51	53	56		
-	-	-	-	-	-	-		
51	46	37	29	37	37	42		
64	61	56	57	60	61	65		
56	51	43	52	56	60	61		
61	57	51	46	51	51	51		
51	46	42	34	37	39	42		
53	47	42	33	37	38	42		
51	46	37	33	33	37	38		



T/C IDEN.	LOCATION AND REMARKS
I-33	Upper, right back
I-34	Lower, left back
I-35	Back, right shoulder blade
I-36	Back, left thigh
I-37	Back, left calf
I-38	Back, right thigh
I-39	Back, right calf
I-40	Forehead of dummy
I-41	Constant wear garment, outside, upper right arm
OPG-1	Outside front neck ring
OPG-2	Outer surface feeding port
OPG-3	Head suspension adjustment knob (right side only)
OPG-4	Outside back of helmet
OPG-5	Outside right wrist ring
OPG-6	Outer suit surface, below crossed portion of PLSS J
OPG-7	Outside lower torso, left side
OPG-8	Outside suit surface, left shoulder blade where PL
OPG-9	Right sole of pressure boot
OPG-10	Left sole of pressure boot
OPG-11	Surface of bioinstrumentation plug
OPG-12	Right thigh, under center of vertical cut in thermal
OPG-13	Right thigh, 3 inches from vertical cut in thermal leg).
OPG-14	Right thigh, at top end of vertical cut in thermal
OPG-15	Left thigh, under center of horizontal cut in thermal
OPG-16	Left thigh, at outside end of horizontal cut in thermal
OPG-17	Left thigh, 3 inches vertically up from center of garment.
OPG-18	Right thigh, under outer layer of pressure garment garment.
OPG-19	Left thigh, under outer layer of pressure garment,

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TABLE IV (CONTINUED)

SUMMARY OF TEST POINT FINAL TEMPERATURES

EXPERIMENT IIa

	CHANNEL NO.	IIa Day No. 1			
		1	2	3	4
	35	92	74	82	87
	36	95	73	83	83
	37	93	78	83	87
	38	92	73	74	78
	39	-	-	-	-
	40	81	78	74	78
	41	89	65	69	69
	42	89	60	92	69
	43	92	69	74	74
	44	75	60	78	70
	45	56	46	74	51
	46	56	41	56	56
	47	28	8	24	47
	48	61	46	46	42
harness	49	75	60	82	74
	50	75	64	87	70
SS rests on suit	51	62	51	108	134
	52	10	-6	4	4
	53	7	-11	4	-10
	54	84	73	82	74
al garment	55	80	68	87	69
garment (toward outside of	56	80	69	87	74
garment	57	88	74	82	78
al garment	58	82	69	87	69
ermal garment	59	79	69	82	70
horizontal cut in thermal	(Bad)	-	-	-	-
under cut in thermal	61	-	73	87	74
under cut in thermal garment	62	83	69	82	70

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IIa Day No. 2

	1	2	3	4	5	6	7
	65	61	56	56	37	61	65
	65	61	56	52	53	56	60
	69	66	60	60	60	65	65
	60	57	51	46	46	51	51
	-	-	-	-	-	-	-
	65	60	56	56	57	60	61
	56	48	43	51	56	58	60
	46	42	33	42	69	51	86
	61	56	51	60	60	65	65
	51	43	37	42	49	52	60
	-1	-6	-11	-1	56	15	69
	33	24	18	23	29	37	42
	9	-1	-10	14	19	29	28
	46	38	28	32	32	37	37
	56	51	43	42	47	56	60
	56	51	46	42	51	56	65
	56	46	38	42	42	43	46
	18	9	0	10	9	14	14
	18	10	-1	-10	-9	-6	-6
	60	57	51	56	65	61	66
	60	56	51	56	69	60	70
	60	57	52	65	74	65	74
	65	61	56	57	65	61	65
	56	51	46	42	60	46	61
	56	51	46	39	56	44	60
	-	-	-	-	-	-	-
	60	60	52	56	65	60	69
	56	51	46	42	57	46	60



T/C IDEN.	LOCATION AND REMARKS
ITG-1	Back of helmet pouch
ITG-2	Back of right glove, above adjusting strap
ITG-3	PLSS pouch next to inner temperature measurement location
ITG-4	Outer side, right elbow
ITG-5	Right thigh, above bioinstrumentation plug
ITG-6	Front, left lower torso
ITG-7	Front, left shoulder
ITG-8	Bottom, inner right thermal garment sole
ITG-9	Bottom, inner left thermal garment sole
ITG-10	Back right elbow
ITG-11	Front left knee
ITG-12	Back left calf
ITG-13	PLSS pouch, lower left surface of pack
ITG-14	Outer upper right arm, (just below shoulder)
ITG-15	Outer, center, upper right arm (between ITG-4 and ITG-14)
ITG-16	Right thigh at edge of cut
ITG-17	Left thigh at edge of cut
BP-1	Inside back wall
BP-2	Inside pack
BP-3	Heater block
BP-4	Inside front wall, upper portion where pack rests on suit
BP-5	Outer surface, back shell
BP-6	Outer surface of control knob
SL-1	Bottom of walking boot
LS-1	Left side (facing lamps) of lunar surface simulator (space
LS-2	Right side (facing lamps) of lunar surface simulator (space

TABLE IV (CONTINUED)

SUMMARY OF TEST POINT FINAL TEMPERATURES

EXPERIMENT IIa

CHANNEL NO.	IIa Day No. 1				
	1	2	3	4	
63	-18	-42	-20	29	
64	-25	-52	0	-30	
65	36	23	166	209	
66	69	47	60	56	
67	77	65	92	65	
68	40	32	104	51	
69	72	51	78	60	
70	-7	-21	-6	-6	
71	-22	-37	-6	-30	
72	67	50	60	56	
73	68	50	95	56	
74	36	18	33	137	
75	33	19	170	217	
76	66	55	56	74	
77	71	51	60	65	
78	-	-	-	-	
79	-	-	-	-	
107	25	13	77	112	
108	8	13	55	78	
109	14	8	68	95	
110	-	-	-	-	
111	16	3	64	82	
112	-	-	-	-	
113	-106	114	57	74	
raft on IIa)	118	-29	-80	-37	-11
raft on IIa)	119	-23	-80	-37	-11

IIa Day No. 2

1	2	3	4	5	6	7
-30	-41	-51	4	0	10	4
-26	-46	-62	4	4	9	14
34	24	14	18	18	19	19
42	37	37	75	60	78	69
51	48	42	65	79	66	82
23	19	9	4	66	32	78
42	34	28	19	42	32	51
4	-4	-11	4	-1	9	4
9	0	-10	-15	-6	-14	-6
42	38	42	83	60	84	69
38	33	29	23	70	32	70
9	0	-6	0	0	14	9
33	23	9	15	14	19	18
46	34	67	82	48	82	88
43	38	47	74	52	75	78
-	-	-	-	-	-	-
-	-	-	-	-	-	-
37	27	13	18	18	18	18
37	27	15	21	20	19	19
41	32	19	27	24	27	25
-	-	-	-	-	-	-
37	27	13	19	19	23	23
-	-	-	-	-	-	-
-170	-178	-183	-132	-126	-21	-126
-222	-235	243	-222	-238	243	250
-228	-246	254	-230	-238	243	258



T/C IDENT.	LOCATION AND REMARKS
OTG-1	Front, above neck ring temperature location
OTG-2	Back of helmet pouch
OTG-3	Back of right hand, above adjusting strap
OTG-4	Back of PLSS pouch
OTG-5	Outer right elbow
OTG-6	Front right thigh, above bioinstrumentation plug
OTG-7	Back of thermal garment just below PLSS pouch
OTG-8	Front, left, lower torso
OTG-9	Left shoulder, front
OTG-10	Right, bottom sole of thermal boot
OTG-11	Bottom, left sole
OTG-12	Back right elbow
OTG-13	Front left knee
OTG-14	Back left calf
OTG-15	Outer, upper right arm (just below shoulder)
OTG-16	Outer, center, upper right arm (between OTG-5 and C
OTG-17	Top of diamond pattern on chest
OTG-18	Right-hand side of diamond pattern on chest
OTG-19	Bottom of diamond pattern on chest
OTG-20	Left hand side of diamond pattern of chest
OTG-21	Top of diamond pattern on back
OTG-22	Left hand side of diamond pattern on back
OTG-23	Bottom of diamond pattern on back
OTG-24	Right-hand side of diamond pattern on back
OTG-25	Right thigh, near edge of cut
OTG-26	Left thigh, near edge

IIa Day No. 2

	1	2	3	4	5	6	7
	-157	-162	-162	-114	100	-137	91
	-114	-120	-114	-66	94	-47	-89
	-205	-212	-198	46	32	43	60
	-229	-229	-228	-170	-221	-62	-221
	-188	-151	-31	119	-1	123	68
	-101	-101	-96	-15	162	-41	154
	-191	-219	-206	-137	-206	-78	-198
	-176	-191	-190	-198	88	-198	89
	-176	-170	-177	-185	52	-183	51
	-170	-177	-184	-143	-130	-136	-130
	-164	-170	-177	-151	-102	-151	-94
	-176	-164	-90	37	46	37	70
	-151	-151	-156	-124	125	-162	127
	-198	-198	-183	-114	-112	-73	-138
	-177	-120	-36	27	-52	19	33
	-182	-129	197	105	-100	117	182
	-205	-205	-206	-206	129	-204	138
	-	-	-	-	-	-	-
	-213	-213	-207	-85	103	-139	104
	-185	-192	-192	-190	78	-185	72
	-222	-222	-221	-151	-214	-52	-221
	-229	-230	-226	-148	-220	-21	-222
	-214	-214	-213	-145	-206	-30	-212
	-222	-222	-219	-151	-212	-42	-214
	-	-	-	-	-	-	-
	-	-	-	-	-	-	-



T/C IDENT.	LOCATION AND REMARKS
I-1	Inside front neck ring
I-2	Inside feeding port
I-3	Inside back of helmet
I-4	Right middle finger
I-5	Back of right hand, beneath adjustment buckle
I-6	Inside right wrist ring of pressure suit
I-7	Constant wear garment, beneath crossed PLSS harness straps
I-8	Constant wear garment, outer side of right elbow
I-9	Inside wrist ring of right glove
I-10	Constant wear garment, lower left torso where suit is not
I-11	Constant wear garment, left shoulder blade where pack rests
I-12	Constant wear garment, left shoulder under PLSS shoulder
I-13	Constant wear garment, left shoulder
I-14	Constant wear garment, lower back torso
I-15	Inner boot, right foot
I-16	Inner boot, left foot
I-17	Sock, right ankle
I-18	Constant wear garment, left front shin below PLSS
I-19	Helmet pressure visor (center)
I-20	Helmet pressure visor (left side)
I-21	Outer, right shoulder
I-22	Outer, right elbow
I-23	Upper, right chest
I-24	Upper, left chest
I-25	Front, left shoulder
I-26	Front, left forearm
I-27	Front, right thigh
I-28	Front, right shin
I-29	Front, left thigh
I-30	Front, left shin
I-31	Back, left shoulder
I-32	Back, left forearm

TABLE V

OF TEST POINT FINAL TEMPERATURES

EXPERIMENTS I Ib AND I Ic

(Test Points indicated by (*) were

	CHANNEL NO.	I Ib				
		1	2	3*	4*	5
	115	84	110	109	109	101
	2	-	-	-	-	-
	3	81	110	111	108	106
	4	106	143	123	117	134
	5	89	101	103	104	113
	6	88	96	98	97	105
	7	85	103	104	103	100
	8	88	96	97	95	102
	9	88	96	98	97	105
compressed by straps	10	87	100	102	102	103
s on suit	11	85	96	98	98	100
trap.	(Bad)	-	-	-	-	-
	13	88	104	104	104	107
	14	90	96	97	97	107
	15	97	117	121	122	141
	16	97	120	125	127	144
	17	95	112	113	113	129
	18	97	114	116	115	128
	19	80	134	81	129	91
	20	80	137	83	134	93
	B6	87	94	96	94	100
	B7	88	95	96	95	102
	B8	84	101	101	101	99
	B9	85	100	102	102	100
	(Bad)	-	-	-	-	-
	B10	89	106	105	104	110
	B11	90	100	100	100	109
	B12	95	113	115	113	124
	B13	91	101	101	101	111
	B14	96	113	115	113	128
	B15	87	100	102	101	106
	B16	89	104	105	102	110

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(short test points and not steady state)

IIc								
6*	7*	8	9	1	2	4	6	7
98	96	103	118	105	117	113	78	79
-	-	-	-	-	-	-	-	-
105	98	98	116	108	117	113	69	66
118	107	131	153	138	142	129	20	23
113	110	122	121	92	101	108	74	69
106	104	113	112	87	95	100	83	82
100	98	105	113	95	104	105	87	87
101	99	103	106	89	97	100	91	88
106	105	114	113	87	92	100	83	82
103	102	110	114	91	100	104	92	91
100	99	104	107	88	96	101	88	87
-	-	-	-	-	-	-	-	-
107	105	112	118	92	102	104	91	87
107	105	116	117	87	96	104	93	91
143	142	166	160	109	126	138	108	100
147	146	170	162	108	125	138	110	104
129	127	140	147	100	117	121	101	100
129	126	129	144	104	121	122	96	92
68	87	94	136	131	138	100	46	87
73	88	94	139	134	142	101	52	91
100	97	102	106	89	97	99	95	91
101	99	103	107	91	98	100	95	90
98	96	104	112	97	105	105	90	88
99	97	104	112	95	104	105	90	88
-	-	-	-	-	-	-	-	-
109	106	113	121	96	105	105	91	88
109	107	118	127	94	107	106	96	95
125	121	130	148	104	125	125	101	97
112	110	120	131	94	109	109	95	95
129	125	128	144	103	121	123	90	95
106	104	110	115	91	100	103	93	89
109	107	113	119	95	104	106	93	88

T/C IDEN.	LOCATION AND REMARKS
I-33	Upper, right back
I-34	Lower, left back
I-35	Back, right shoulder blade
I-36	Back, left thigh
I-37	Back, left calf
I-38	Back, right thigh
I-39	Back, right calf
I-40	Forehead of dummy
I-41	Constant wear garment, outside, upper right arm
OPG-1	Outside front neck ring
OPG-2	Outer surface feeding port
OPG-3	Head suspension adjustment knob (right side only)
OPG-4	Outside back of helmet
OPG-5	Outside right wrist ring
OPG-6	Outer suit surface, below crossed portion of PLSS
OPG-7	Outside lower torso, left side
OPG-8	Outside suit surface, left shoulder blade where PI
OPG-9	Right sole of pressure suit
OPG-10	Left sole of pressure boot
OPG-11	Surface of bioinstrumentation plug
OPG-12	Right thigh, under center of vertical cut in thermal
OPG-13	Right thigh, 3 inches from vertical cut in thermal leg)
OPG-14	Right thigh, at top end of vertical cut in thermal
OPG-15	Left thigh, under center of horizontal cut in thermal
OPG-16	Left thigh, at outside end of horizontal cut in thermal
OPG-17	Left thigh, 3 inches vertically up from center of garment.
OPG-18	Right thigh, under outer layer of pressure garment garment.
OPG-19	Left thigh, under outer layer of pressure garment.

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TABLE V (CONTINUED)

SUMMARY OF FINAL TEMPERATURES

EXPERIMENTS I Ib AND I Ic

(Test Points indicated by

	CHANNEL				
	NO.	1	2	3*	4*
	B17	84	94	96	96
	B18	86	95	96	97
	B19	84	93	95	95
	B20	92	99	100	100
	(Bad)	-	-	-	-
	B21	91	99	100	99
	B22	96	112	114	113
	B23	85	130	105	131
	41	88	96	97	96
	42	83	110	108	108
	43	79	124	109	110
	44	80	107	109	108
	45	72	95	95	90
	46	87	95	96	95
harness	47	91	112	113	111
	48	92	113	113	112
SS rests on suit	49	83	88	89	88
	50	138	152	144	140
	51	134	158	151	148
	52	92	110	106	107
al garment	53	94	123	103	117
garment (toward outside of	54	93	119	101	113
garment	55	91	105	103	102
mal garment	56	95	121	105	116
ermal garment	57	94	119	101	113
horizontal cut in thermal	58	95	121	104	116
under cut in thermal	59	94	115	104	110
under cut in thermal garment	116	95	117	105	112

(* were short test points and not steady state)

IIb					IIc				
5	6*	7*	8	9	1	2	4	6	7
97	97	96	102	105	90	98	101	90	87
100	100	99	106	108	87	96	101	94	91
97	97	96	102	105	87	95	99	91	88
114	113	112	120	127	91	105	109	96	93
-	-	-	-	-	-	-	-	-	-
112	110	110	120	127	91	104	108	97	94
127	126	123	131	147	104	123	126	101	96
99	90	94	100	139	132	136	112	83	101
101	101	98	102	107	91	100	100	91	87
100	97	94	102	118	105	117	111	76	78
92	84	81	95	128	122	129	108	56	65
103	100	96	98	113	104	113	113	61	60
117	108	101	87	102	93	101	100	25	23
104	104	103	112	110	84	92	97	82	78
105	104	100	110	123	104	115	111	87	87
107	106	103	114	129	104	117	113	87	91
102	103	101	101	104	82	91	95	69	65
172	157	150	185	190	158	173	170	69	65
173	161	152	186	193	162	178	177	75	70
109	108	107	121	153	-	-	-	-	-
110	104	107	121	166	154	169	121	56	113
110	104	106	118	157	129	138	113	87	92
107	107	105	117	134	134	138	110	87	95
114	109	112	124	164	126	150	131	9	161
115	108	110	120	159	134	-	-	-	-
114	108	110	123	165	129	147	117	82	95
109	106	107	121	156	138	143	114	82	100
114	110	111	123	162	129	150	130	46	79



T/C IDEN.	LOCATION AND REMARKS
OTG-1	Front, above neck ring temperature location
OTG-2	Back of helmet pouch
OTG-3	Back of right hand, above adjusting strap
OTG-4	Back of PLSS pouch
OTG-5	Outer right elbow
OTG-6	Front right thigh, above bioinstrumentation plug
OTG-7	Back of thermal garment just below PLSS pouch
OTG-8	Front, left, lower torso
OTG-9	Left shoulder, front
OTG-10	Right, bottom sole of thermal boot
OTG-11	Bottom, left sole
OTG-12	Back right elbow
OTG-13	Front left knee
OTG-14	Back left calf
OTG-15	Outer, upper right arm (just below shoulder)
OTG-16	Outer, center, upper right arm (between OTG-5 and OTG-15)
OTG-17	Top of diamond pattern on chest
OTG-18	Right-hand side of diamond pattern on chest
OTG-19	Bottom of diamond pattern on chest
OTG-20	Left hand side of diamond pattern of chest
OTG-21	Top of diamond pattern on back
OTG-22	Left hand side of diamond pattern on back
OTG-23	Bottom of diamond pattern on back
OTG-24	Right-hand side of diamond pattern on back
OTG-25	Right thigh, near edge of cut
OTG-26	Left thigh, near edge

T/C IDENT.	LOCATION AND REMARKS
ITG-1	Back of helmet pouch
ITG-2	Back of right glove, above adjusting strap
ITG-3	PLSS pouch next to inner temperature measurement loc
ITG-4	Outer side, right elbow
ITG-5	Right thigh, above bioinstrumentation plug
ITG-6	Front, left lower torso
ITG-7	Front, left shoulder
ITG-8	Bottom, inner right thermal garment sole
ITG-9	Bottom, inner left thermal garment sole
ITG-10	Back right elbow
ITG-11	Front left knee
ITG-12	Back left calf
ITG-13	PLSS pouch, lower left surface of pack
ITG-14	Outer upper right arm, (just below shoulder)
ITG-15	Outer, center, upper right arm (between ITG-4 and IT
ITG-16	Right thigh at edge of cut
ITG-17	Left thigh at edge of cut
BP-1	Inside back wall
BP-2	Inside pack
BP-3	Heater block
BP-4	Inside front wall, upper portion where pack rests or
BP-5	Outer surface, back shell
BP-6	Outer surface of control knob
SL-1	Bottom of walking boot
LS-1	Left side (facing lamps) of lunar surface simulator
LS-2	Right side (facing lamps) of lunar surface simulator

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TABLE V (CONTINUED)

SUMMARY OF FINAL TEMPERATURES

EXPERIMENTS IIB AND IIC

(Test Points indicated by

	CHANNEL	1	2	3	4
	NO.				
	61	65	82	69	66
	62	109	149	110	120
ation	63	87	88	84	85
	64	91	99	88	96
	65	95	129	99	124
	66	102	159	132	140
	67	87	117	106	110
	68	159	170	141	146
	69	154	174	146	154
	70	91	95	83	95
	71	102	156	117	147
	72	117	134	101	117
	73	89	91	84	86
	74	91	96	85	94
g-14)	75	91	96	88	96
	76	-	-	-	-
	77	-	-	-	-
	38	85	87	85	84
	26	87	88	88	85
	27	86	88	87	85
suit	28	85	88	87	86
	29	87	89	87	85
	(Bad)	-	-	-	-
	40	134	237	142	187
(spacecraft on IIa)	35	250	246	154	195
(spacecraft on IIa)	36	253	250	151	194

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(* were short test points and not steady state)

IIb					IIc				
5	6	7	8	9	1	2	4	6	7
123	106	95	75	89	83	91	87	-34	-36
136	105	106	131	157	146	148	128	4	14
121	112	116	107	110	87	95	100	51	46
115	96	108	106	110	96	101	104	74	74
114	102	111	123	170	138	154	117	87	104
123	110	109	124	170	150	158	126	65	82
104	98	98	109	131	110	121	108	74	82
183	152	154	186	201	181	188	181	46	46
183	154	156	193	202	177	186	182	60	61
110	91	104	104	107	95	100	102	66	65
132	121	126	131	197	162	187	127	87	101
209	165	179	138	152	129	134	134	52	46
126	113	119	109	113	91	97	101	51	44
110	94	104	104	106	93	100	101	69	69
117	97	111	106	109	95	101	104	78	74
-	-	-	-	-	135	154	118	70	105
-	-	-	-	-	146	150	117	61	100
116	113	111	104	108	82	91	95	53	51
117	115	112	107	110	85	95	100	56	51
115	113	110	105	108	84	92	97	56	51
108	108	105	102	106	83	91	95	60	57
119	115	114	107	110	87	95	100	56	51
-	-	-	-	-	-	-	-	-	-
247	138	199	239	242	247	244	238	-203	-164
247	155	196	250	248	253	257	247	-252	-260
251	150	197	252	250	254	250	249	-252	-261

test data could be obtained in the future, especially during suit cold soaks, by fitting heated hands and feet to the thermal dummy.

Helmet and glove o-ring sealing surfaces' minimum temperatures during suit cold soaks were 40°F or higher. These temperatures are about 10°F above the temperature at which wrist-disconnect o-ring leaks were experienced at LTV on a Gemini suit in February, 1964.

Temperatures as low as 15°F were measured inside the boots during cold soak and as high as 160°F during maximum incident flux conditions. Both these extremes are far beyond the threshold of pain. However, in light of the preceding discussion of the hands and feet, these temperatures are not considered realistic. Furthermore, informal information indicates that the boots on the test suit were not representative of what the final design will be.

No "hot" or "cold" spots on the inside of the suit are clearly indicated. However, it is felt that insufficient instrumentation was installed on the inside suit surfaces during these tests to gain any valid positive or negative indications. It is recommended that for future tests more instrumentation be placed on the interior suit surfaces, particularly on inside headware surfaces, such as helmet and wrist disconnect rings and other surfaces that extend to the outer suit surfaces. Temperatures as low as 40-50°F on the inner wrist disconnect ring and feeding port surfaces (measured during Experiment II-a) are indicative of the possibility of cold internal hardware surfaces.

Minimum measured temperatures of the clear Apollo helmet visor used on this test were on the order of 10°F, which is below the frost point. Maximum measured temperatures were 142°F with combined solar and lunar radiation on the front of the EMU.

Review of the data shows that dummy temperatures ranged far outside the range of normal body temperatures during various test points throughout this test series. Low dummy temperatures were the result of suit heat losses during cold soak conditions without the application of power to the dummy heaters. High dummy temperatures (120°F) were the result of heat leaks into the suit during maximum flux conditions. (No means were available for cooling the dummy under these conditions.) The thermal dummy exerts a considerable heat source or sink influence on the pressure suit. For this reason, allowances for high or low dummy temperatures may be in order in the evaluation of temperatures on the pressure suit.

Figures 30 and 31 present a plotted sampling of temperatures throughout the test series (Experiments II-a, II-b and II-c). The temperature channels shown on Figures 30 and 31 are representative of the transient response of the EMU and, to a lesser degree, are representative of the temperature levels measured on the dummy, PGA and thermal garment.

The thermal garment cover material (dacron) was clearly affected by exposure to the SES solar lamps. The dacron darkened to a yellow or yellowish brown with increasing exposure and was accompanied by an increase in temperature (i.e., the dacron temperature was higher under solar irradiation during Experiment II-c than during the earlier Experiment II-a). The fact that the darkening was due to exposure to the solar lamps is illustrated

FIGURE 30
TEMPERATURE HISTORY OF SUIT SURFACE,
DUMMY SURFACE, AND VENTILATION GAS,
EXPERIMENT, IIa, DAY No. 1

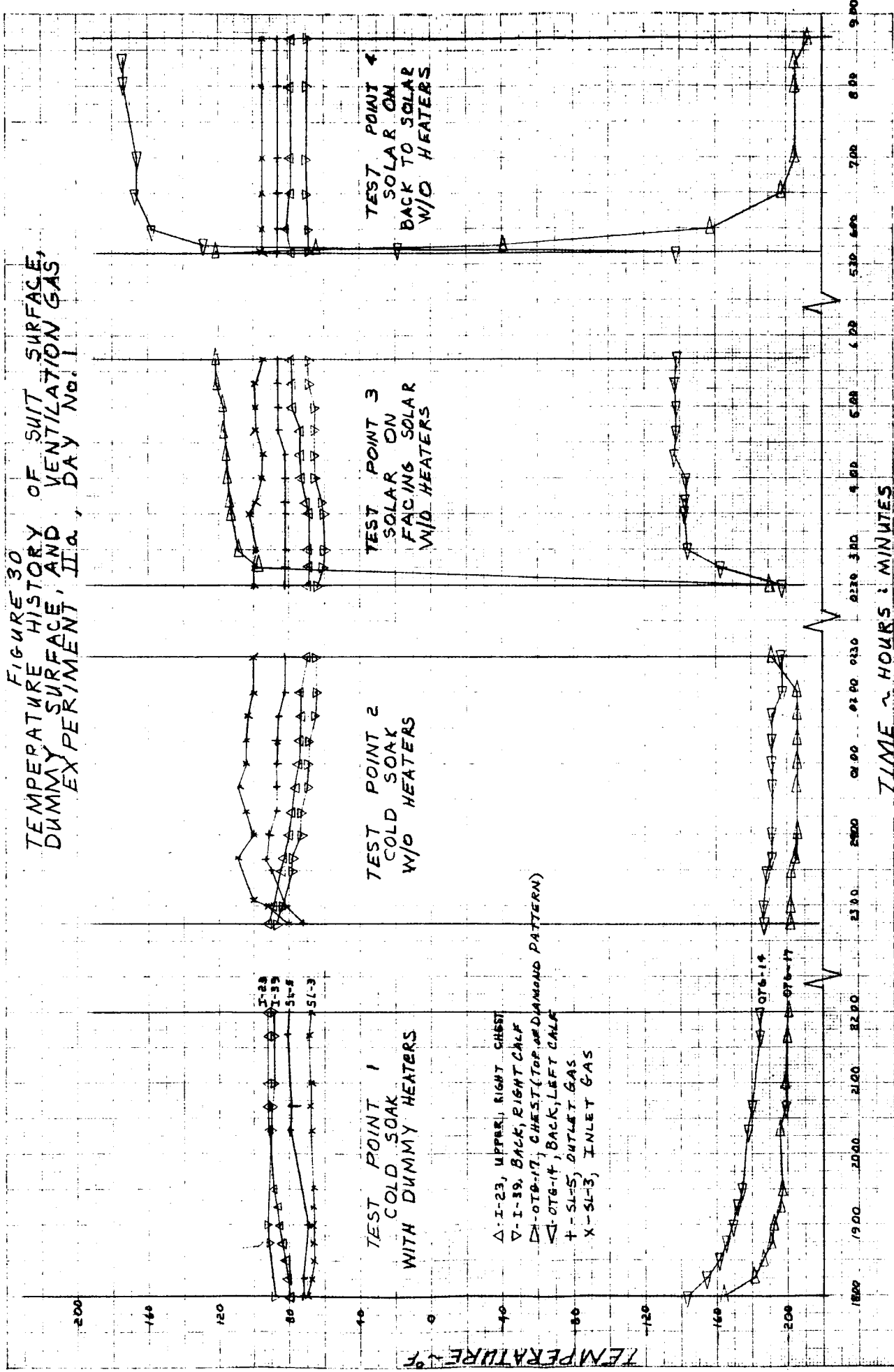


FIGURE 30 (CONT'D)
 TEMPERATURE HISTORY OF SUIT SURFACE
 DUMMY SURFACE AND VENTILATION GAS
 EXPERIMENT II a DAY No. 2

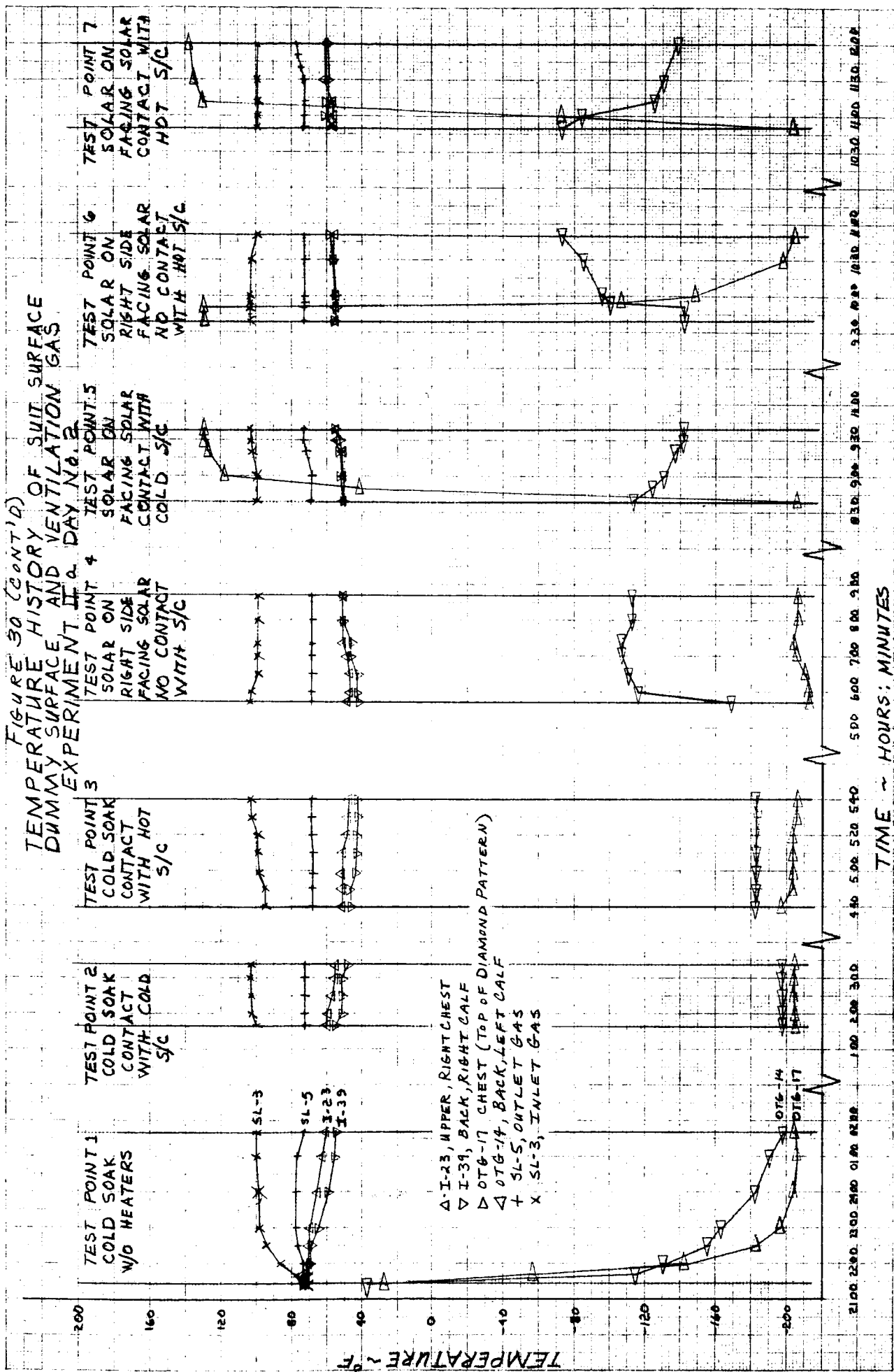


FIGURE 30 (CONT'D)
TEMPERATURE HISTORY OF SUIT SURFACE
DUMMY SURFACE AND VENTILATION GAS
EXPERIMENT IIb

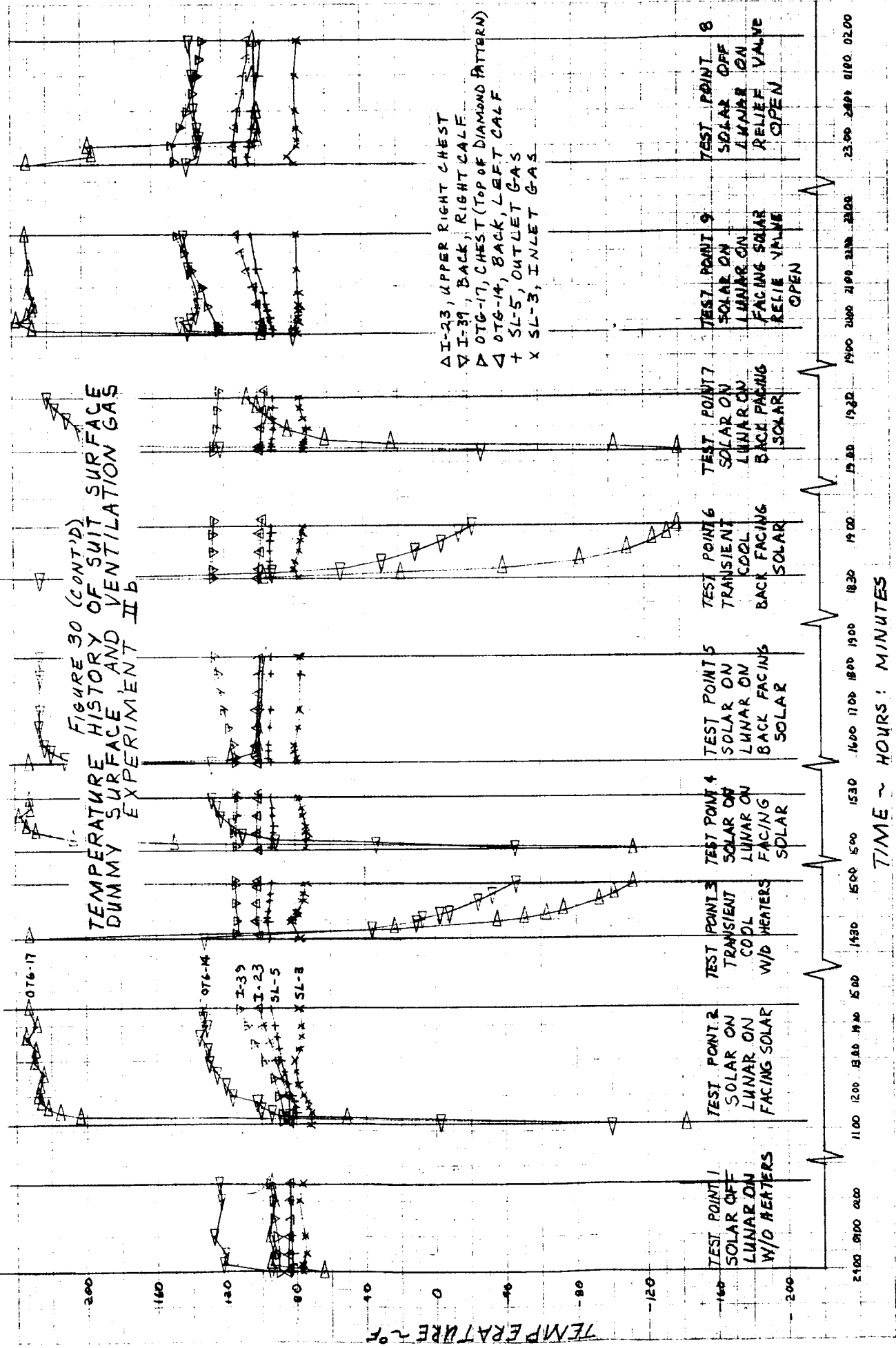
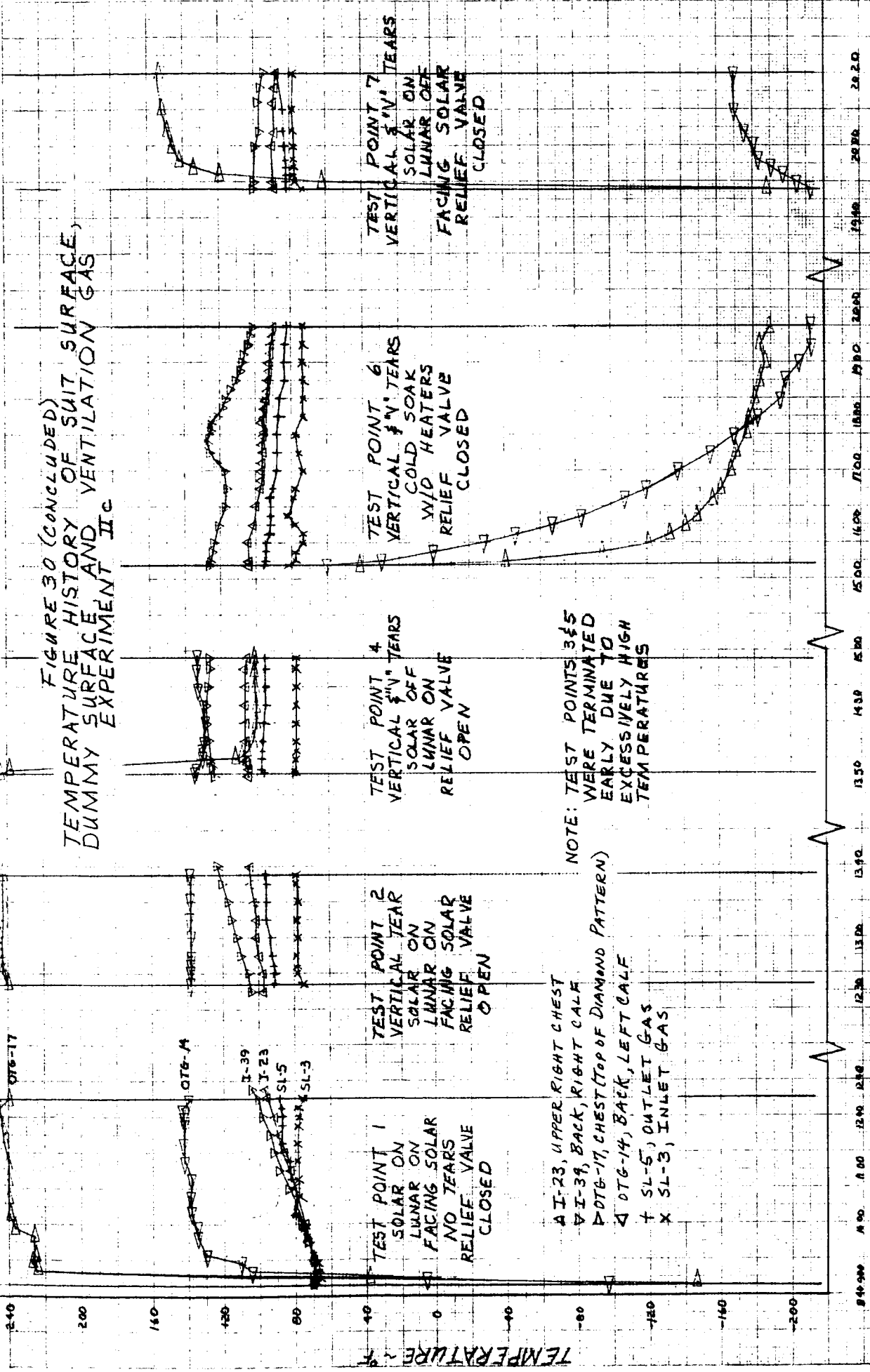


FIGURE 30 (CONCLUDED)
TEMPERATURE HISTORY OF SUIT SURFACE,
DUMMY SURFACE AND VENTILATION GAS
EXPERIMENT IIc



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FIGURE 31
TEMPERATURE OF FEET
AND RIGHT HAND
EXPERIMENT IIa, DAY No.1

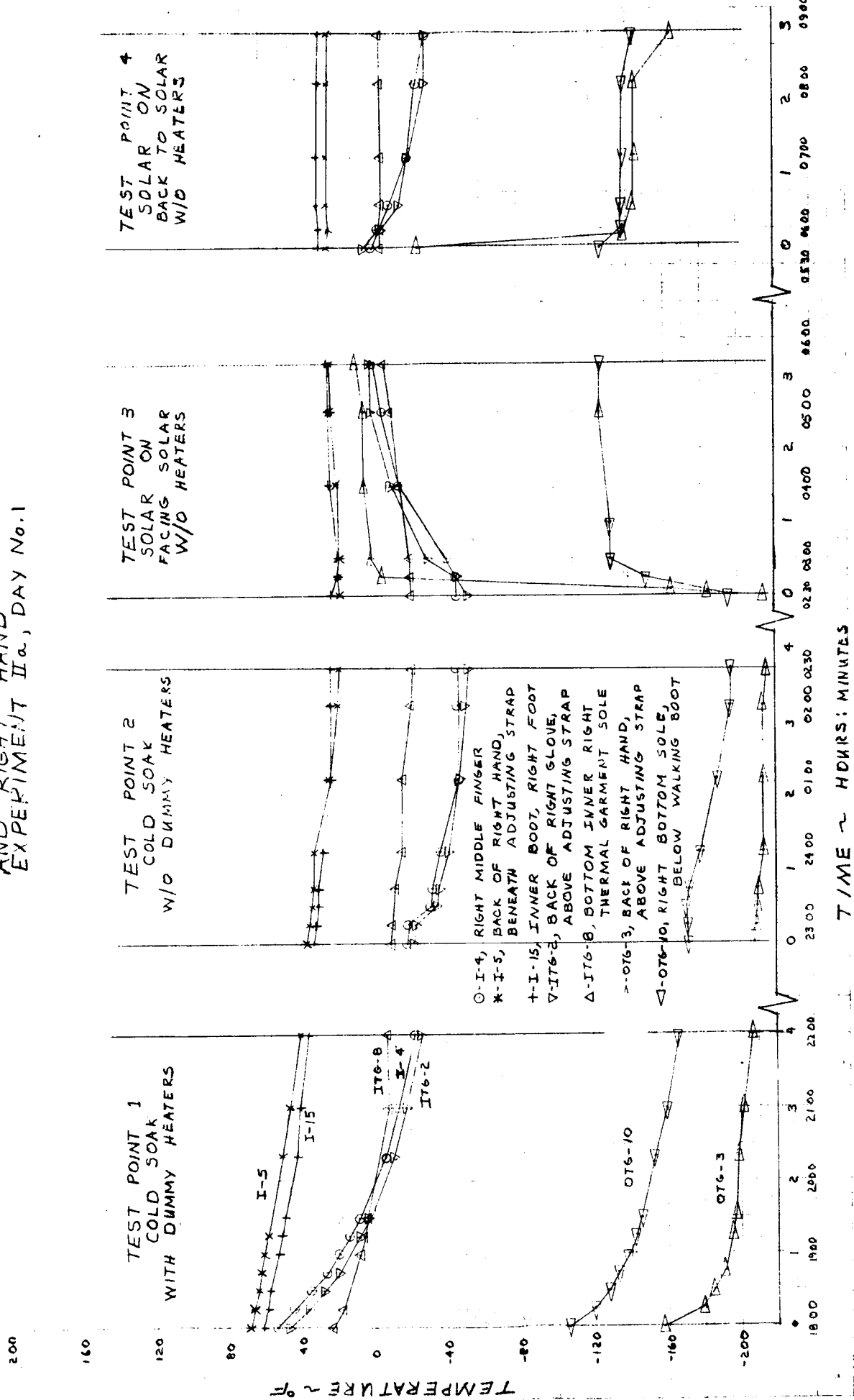


FIGURE 31 (CONT'D)
TEMPERATURE OF HAND
AND RIGHT FEET
EXPERIMENT II a, DAY No. 2

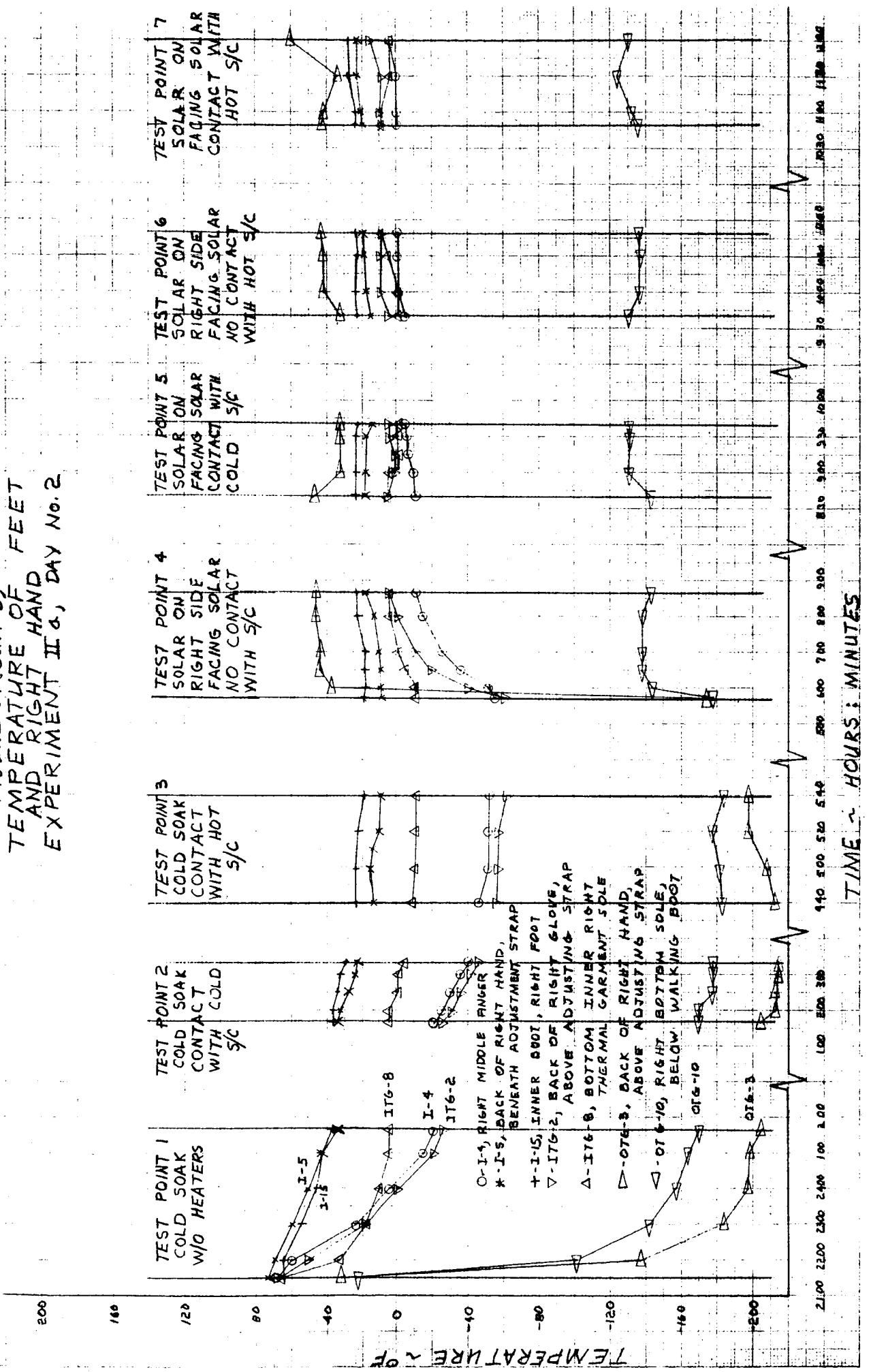
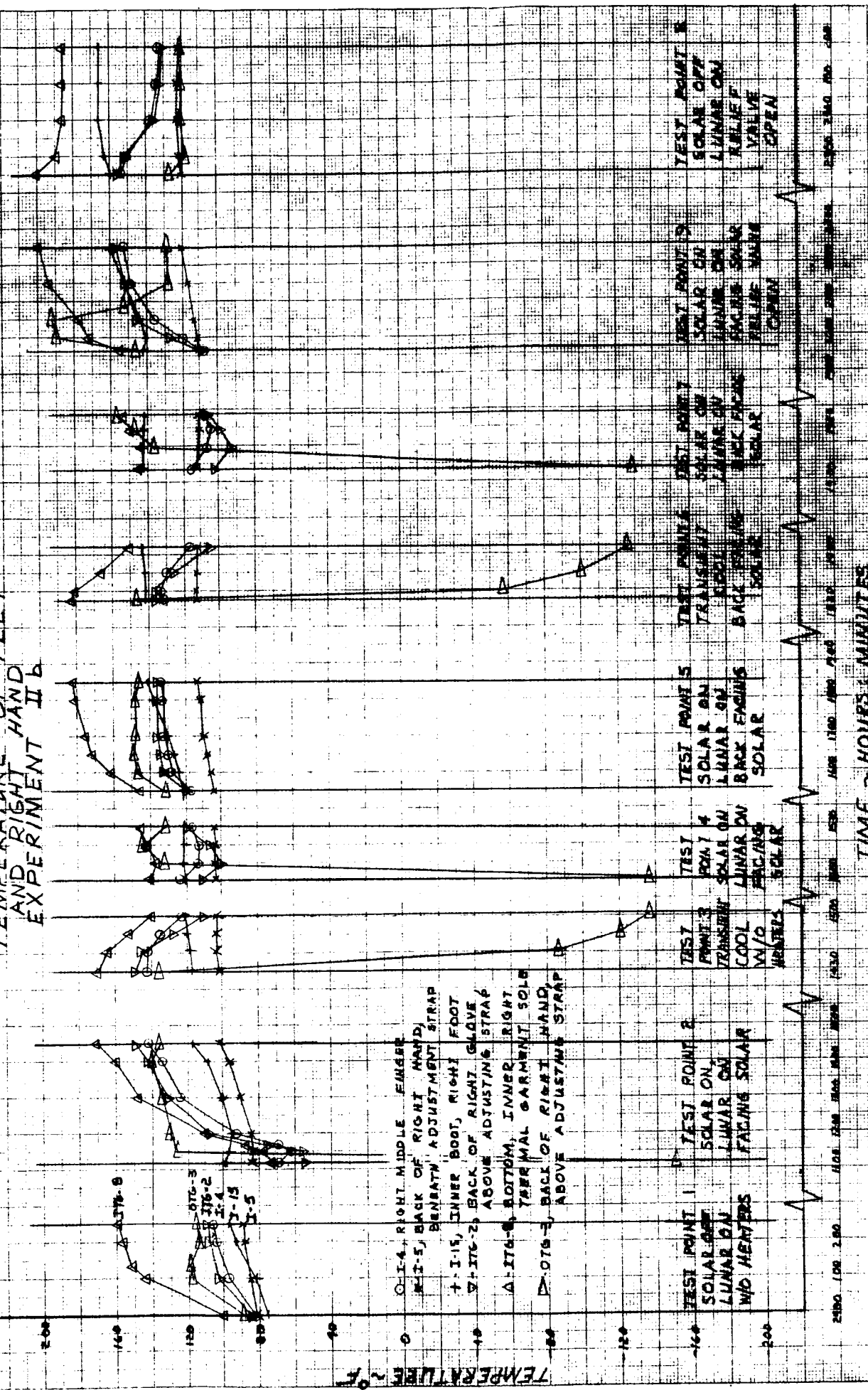


FIGURE 51 (CONT'D) TEMPERATURE OF FEET AND RIGHT HAND EXPERIMENT II B



O-I-4, RIGHT MIDDLE FINGER
 X-I-5, BACK OF RIGHT HAND,
 BENEATH ADJUSTMENT STRAP
 + I-15, INNER BOOT, RIGHT FOOT
 ∇-IT6-2, BACK OF RIGHT GLOVE
 ∇-IT6-3, ABOVE ADJUSTING STRAP
 Δ-IT6-4, BOTTOM, INNER RIGHT
 THERMAL GARMENT SOLE
 ▷-OT6-5, BACK OF RIGHT HAND,
 ABOVE ADJUSTING STRAP

TEST POINT 1
 SOLAR ON
 LUNAR ON
 W/O HEATERS

TEST POINT 2
 SOLAR ON
 LUNAR ON
 FACING SOLAR

TEST POINT 3
 TRANSIENT SOLAR ON
 COOL W/O HEATERS

TEST POINT 4
 SOLAR ON
 LUNAR ON
 FACING SOLAR

TEST POINT 5
 SOLAR ON
 LUNAR ON
 BACK FACING SOLAR

TEST POINT 6
 TRANSIENT SOLAR ON
 BACK FACING SOLAR

TEST POINT 7
 SOLAR ON
 LUNAR ON
 BACK FACING SOLAR

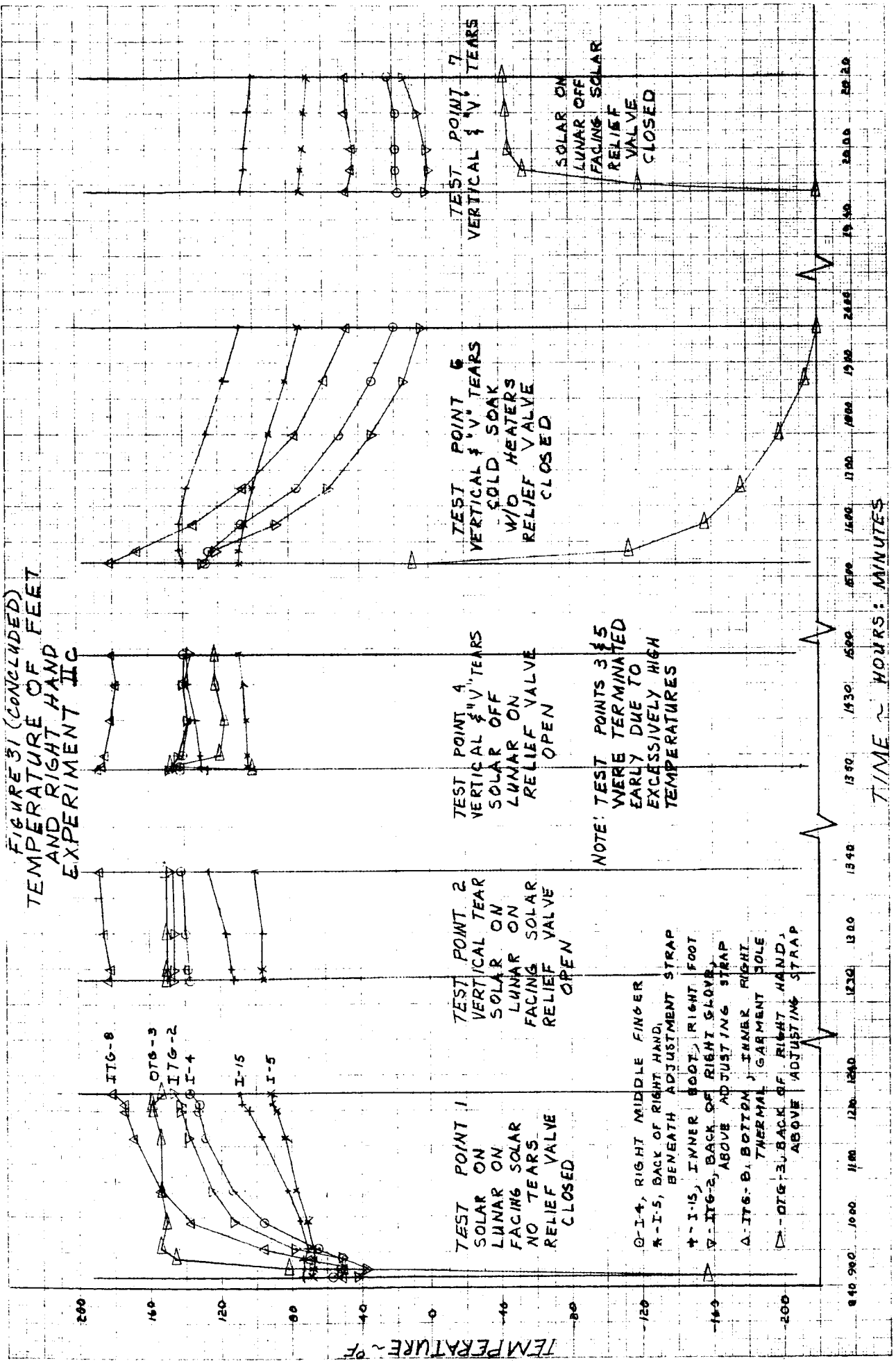
TEST POINT 8
 SOLAR ON
 LUNAR ON
 RELIEF VALVE OPEN

TEST POINT 9
 SOLAR ON
 LUNAR ON
 RELIEF VALVE OPEN

TEST POINT 10
 SOLAR ON
 LUNAR ON
 RELIEF VALVE OPEN

TIME - HOURS - MINUTES

FIGURE 31 (CONCLUDED)
TEMPERATURE OF FEET
AND RIGHT HAND
EXPERIMENT IIC



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by the observation that strips across the dacron were shaded by the vertical lunar simulator conductor members (3/4 in. in diameter) and did not darken nearly so much as did the unshaded bulk of the thermal garment. The increase in dacron temperatures as the test progressed provides the estimate of increase in SES solar absorptivity (α_{SES}) presented by Figure 32. The ratio of $\alpha_{SES}/\alpha_{SES_i}$ was determined by the following relation.

$$\alpha_{SES}/\alpha_{SES_i} = \left(\frac{T}{T_i}\right)^4$$

The pressure of the Apollo EMU was maintained at 3.7 psia throughout the test except for those test points where the relief valve was required to be open. For those test points, the suit pressure was increased above 5.5 psia to the point where the SES pressure was raised to 5×10^{-4} mm Hg. by the increased suit/valve leakage. The characteristics of the valve are discussed in paragraph 4.2.7.

The suit gas flow (oxygen) was maintained at near 11.5 cfm (at 3.7 psia) throughout the test, except during relief valve operation. Suit flow data and pressure data are presented in Appendix F of this report.

Table VI presents a tabulation of measured EMU outer surface temperatures versus computed outer surface temperatures in the true lunar environment. The temperatures presented by Table VI indicate the test conditions for Experiments II-b and II-c were conservative.

4.2.2 SUIT NET HEAT BALANCE

Determination of Heat Balance

The heat leakage into or out of the EMU can be determined by writing a heat balance for the pressure suit as follows:

$$Q_1 + Q_3 + Q_4 = Q_2$$

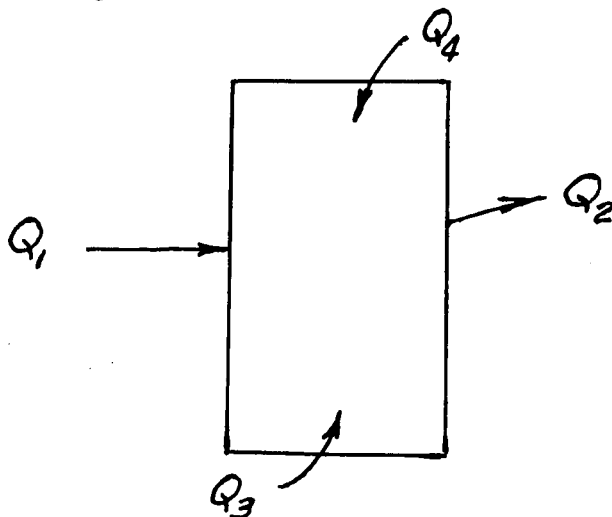
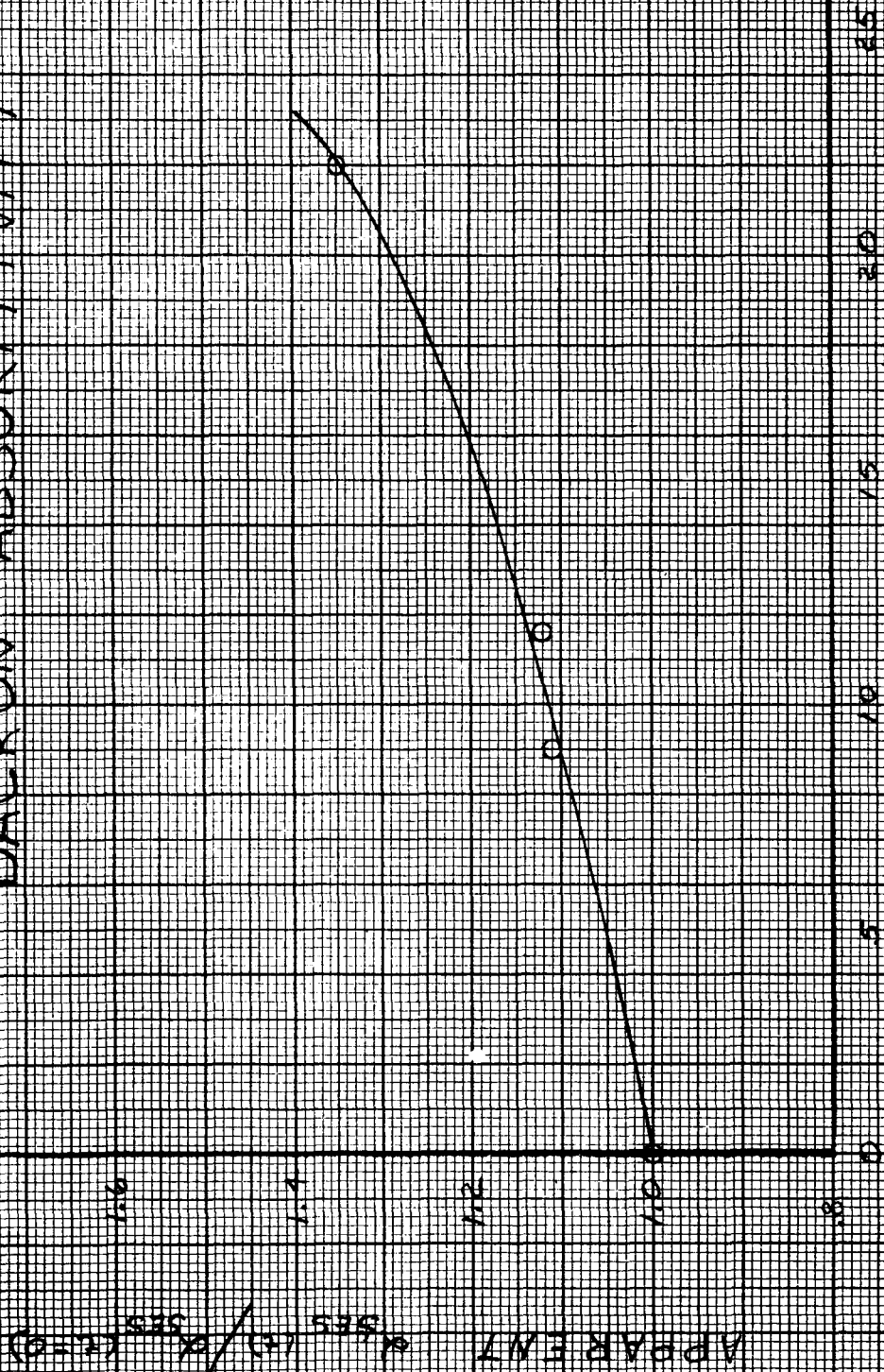


FIGURE 32

APPARENT EFFECT OF SES
SOLAR EXPOSURE ON
DACRON ABSORPTIVITY



CUMULATIVE EXPOSURE TO SES
SOLAR RADIATION, HOURS

1-1
R/C. 4-21-65

TABLE VI

MEASURED AND PREDICTED
OUTER THERMAL GARMENT MAXIMUM TEMPERATURES

<u>Condition</u>	<u>Measured SES</u>	<u>Predicted True Lunar</u>
Lunar Dark Side	-210°F	-200°F
Test Lunar Day*	220°F	195°F*
EMU on Flat Plane with Sun Overhead	--	135°F
Sun at 30°	--	148°F

* Test conditions vs. true lunar if equivalent test conditions existed on moon (i.e., horizontal sun's rays and maximum lunar surface temperature simultaneously).

where

Q_1 = Energy entering EMU via inlet gas, BTU/hr.

Q_2 = Heat removed by outlet gas, BTU/hr.

Q_3 = Net heat transferred to gas from thermal dummy, BTU/hr.

Q_4 = External heat leakage into or out of suit, BTU/hr.

then

$$Q_4 = Q_2 - Q_1 - Q_3$$

$$Q_4 = w_G c_{pG} t_o - w_G c_{pG} t_i - Q_3$$

$$Q_4 = w_G c_{pG} (t_o - t_i) - Q_3$$

where

w_G = Mass flow rate of ventilation gas, lb/hr.

c_{pG} = Constant pressure specific heat of ventilation gas, BTU/lb-°F.

t_o = Temperature of outlet gas, °F.

t_i = Temperature of inlet gas, °F.

The heat transferred to the ventilation gas from the dummy, Q_3 , can be determined by writing a heat balance for the dummy as follows:

$$Q_3 = Q_i - Q_s$$

where

Q_i = Heat input from dummy heaters, BTU/hr.

Q_s = Heat stored in dummy, BTU/hr.

then

$$Q_3 = 3.413P - w_D c_{pD} \left(\frac{dt}{dt} \right)_D$$

where

P = Power input to dummy heaters, watts, (one watt = 3.413 BTU/hr).

w_D = Total weight of dummy, lbs.

c_{pD} = Specific heat of dummy, BTU/lb-°F.

$\frac{dt}{d\tau}$ = Rate of change of dummy temperature, °F/hr.

The rate at which heat is stored in the dummy, Q_s , can also be expressed in terms of the sum of the heat stored in the eight individual dummy segments as follows:

$$w_D c_{pD} \left(\frac{dt}{d\tau}\right)_D = \sum w_s c_{pD} \left(\frac{dt}{d\tau}\right)_s$$

where

w_s = Weight of dummy segment, arm, torso, etc., lbs.

$\left(\frac{dt}{d\tau}\right)_s$ = Rate of change of segment temperature with respect to time, °F/hr.

Substituting this expression into the equation for Q_4 gives

$$Q_4 = w_G c_{pG} (t_o - t_i) - \left[3.413P - \sum w_s c_{pD} \left(\frac{dt}{d\tau}\right)_s \right]$$

$$Q_4 = w_G c_{pG} (t_o - t_i) - 3.413P + \sum w_s c_{pD} \left(\frac{dt}{d\tau}\right)_s$$

The analysis of the thermal dummy heat capacity is presented in Appendix A. Figure A1, Appendix A, can be used to determine the rate at which heat is stored in the individual heater segments if the change in temperature with respect to time of the segment is known. This latter quantity can be calculated from the plotted data included in Appendix G of this report (Volume II). Consider for example the net suit heat leakage test point No. 1, Day No. 1, Experiment II-a. First, the suit ventilation gas flow rate (for oxygen) is calculated from the appropriate suit flow data in Appendix by standard flowmeter equations as 12.1 lb/hr. Substitution into the equation for net suit heat leak, along with dummy stored heat, gives:

$$Q = w_G c_{pG} (t_o - t_i) - 3.413P + \sum w_s c_{pD} \left(\frac{dt}{d\tau}\right)_s$$

$$Q = 12.1 (0.2175) (81 - 68) - 3.413 (44) \\ + \left[-1 + 2 + 2 + 2 + 5 + 0 + 0 - 1 \quad -4 + 0 \right]$$

$$Q = 34 - 150 + 5$$

$$Q = -111 \text{ BTU/hr.}$$

The heat leakage for Test Point No. 2, Day No. 1, Experiment II-a, where the dummy heaters were not used and the dummy surface temperature was controlled with the inlet gas can be calculated in a similar manner as follows:

$$w = 28.4 (5.07) \sqrt{\frac{3.71}{539}}$$

$$w = 12.0 \text{ lbs/hr.}$$

then

$$Q = (12.0) (0.2175) (82 - 102) - 3.413 (0) + [-4 -17 -4 -6.5 -6.5 -1 -2 -4 -3 -14] = 114 \text{ BTU/hr.}$$

The order in which the dummy segment heat storage values are listed is as follows:

<u>Segment</u>	<u>Channel No.</u>
1. Right arm	22, 23
2. Torso	24, 25, 35, 36
3. Left arm	26, 27, 34
4. Upper right leg	28, 40
5. Upper left leg	31, 38
6. Lower Left leg	32, 39
7. Lower right leg	29, 41
8. Head	42
9. Right hand	6
10. Right and left feet	18

Data from the channels listed at the right were used to determine the change in temperature with respect to time ($dt/d\tau$) of the above segments

during Experiment II-a. For Experiments II-b and II-c the same dummy locations were used; however, the assigned channel numbers are different (Table II). The change in temperature with respect to time was assumed to be linear over approximately the last hour of the test point. Analysis has shown the dummy requires approximately one hour to respond to a step change of 5°F in surface temperature. For the half hour test points the change in temperature with respect to time was assumed to be linear over the entire test point. The effective change in temperature with respect to time of a segment was calculated by arithmetically averaging the change in temperature with respect to time of the various locations as denoted by the channel numbers previously listed. The rate of heat stored or lost from the dummy was then determined from Figure F1, Appendix A. Similarly, inlet and outlet ventilation gas temperatures and dummy heater power were averaged. These average values were used to compute the heat leakage.

Apollo EMU Heat Balance Data

Calculated net EMU heat leakage data for each experiment are presented in Tables VII through IX. In general, good agreement in heat leakage among the steady state test points was obtained. The heat leakage data for the half hour test points apply only to the transient condition.

Net EMU heat leakage during cold soak varied from -111 to -135 BTU/hr except for Test Point No. 6, Experiment II-c. However, steady state conditions had not been achieved in Test Point No. 6. The maximum heat leakage of -135 BTU/hr out of the suit during cold soak is in good agreement with previous results, Reference 5. The lower heat leakage out of the EMU compared to the Gemini Extravehicular Suit (Reference 6) is believed to be due primarily to the insulated helmet of the Apollo EMU. Using data from Reference 6 and assuming the helmet is a sphere nine inches in diameter, the heat loss from the uninsulated helmet is calculated as follows:

$$Q = \epsilon \sigma A T^4$$

$$Q = (0.9) (0.1713 \times 10^{-8}) (1.77) (406)^4$$

$$Q = 75 \text{ BTU/hr.}$$

where

ϵ = Emittance of helmet shell

σ = Stefan Boltzmann constant, BTU/hr-ft² °R⁴

A = Surface area of helmet, ft²

T = Temperature of helmet shell, °R

This heat loss added to the -135 BTU/hr during cold soak would give a total heat loss of approximately -210 BTU/hr for the Apollo EMU with an uninsulated helmet. This value is in good agreement with the Gemini extra-vehicular suit heat leakage during cold soak reported in Reference 6.

TABLE VII

EXPERIMENT II-a
CALCULATED NET EMU HEAT LEAKAGE

<u>Test Day No.</u>	<u>Test Point No.</u>	<u>Test Point Description⁽¹⁾</u>	<u>Heat Leakage⁽⁴⁾ BTU/hr</u>
1	1	Cold soak. No incident radiation. Dummy surface temperature controlled with dummy heaters. Relief valve closed. ⁽²⁾	-111
1	2	Cold soak. Dummy surface temperature controlled with inlet gas.	-114
1	3	Translunar extravehicular conditions. Solar on. EMU facing solar lamps. PLSS heater on.	+7
1	4	Translunar extravehicular conditions. Solar on. Back of EMU to solar lamps. PLSS heater on.	-31
2	1	Cold soak. Dummy surface temperature controlled with inlet gas.	-135
2	2	Cold spacecraft surface pressed against right side of cold EMU.	-134
2	3	Hot spacecraft surface pressed against right side of cold EMU.	-134
2	4	Translunar extravehicular conditions. Right side of EMU facing solar lamps.	-74
2	5	Cold spacecraft surface pressed against right side of hot EMU.	-24
2	6	Translunar extravehicular conditions. Right side of EMU facing solar lamps.	-61
2	7	Hot spacecraft surface pressed against right side of hot EMU.	-32 ⁽³⁾

(1) See Table III for additional information.

(2) Relief valve was closed during all of Experiment II-a.

(3) Estimated from transient data.

(4) (+) indicates heat leak into suit, (-) indicates heat leak out.

TABLE VIII
 EXPERIMENT II-b
CALCULATED NET EMU HEAT LEAKAGE

<u>Test Point No.</u>	<u>Test Point Description</u>	<u>Heat Leakage⁽²⁾ BTU/hr</u>
1	Hot lunar surface condition. Solar off, Relief valve closed.	+45
2	Hot lunar surface condition. Solar on. EMU facing solar lamps. Relief valve closed.	+133
3	Ingress into lunar cave. Relief valve closed.	+36 ⁽¹⁾
4	Egress from cave to hot lunar surface. Solar on. EMU facing solar lamps. Relief valve closed.	+75 ⁽¹⁾
5	Hot lunar surface condition. Solar on. Back of EMU to solar lamps. Relief valve closed.	+84
6	Ingress into lunar cave. Relief valve closed.	+14 ⁽¹⁾
7	Egress from cave to hot lunar surface. Solar on. Back of EMU to solar lamps. Relief valve closed.	+2 ⁽¹⁾
8	Hot lunar surface condition. Solar off. Relief valve open.	+51
9	Hot lunar surface condition. Solar on. EMU facing solar lamps. Relief valve open.	+192

(1) Estimated from transient data.

(2) (+) indicates heat leak into suit, (-) indicates heat leak out.

TABLE IX
 EXPERIMENT II-c
CALCULATED NET EMU HEAT LEAKAGE

<u>Test Point No.</u>	<u>Test Point Description</u>	<u>Heat Leakage⁽¹⁾ BTU/hr</u>
1	Hot lunar surface condition. Solar on. EMU facing solar lamps. Relief valve closed.	+137
2	Hot lunar surface condition. Solar on. EMU facing solar lamps. Relief valve open. Vertical tear on upper right thigh.(3)	+211
3	Hot lunar surface condition. Solar on. EMU facing solar lamps. Relief valve open. Inverted "V" tear on upper left thigh.(3)	*
4	Hot lunar surface condition. Solar off. Relief valve open.	+58
5	Hot lunar surface condition. Solar on. EMU facing solar lamps. Relief valve closed.	*
6	Cold soak. Dummy surface temperature controlled with inlet gas.	-57 ⁽²⁾
7	Solar on. Lunar off. EMU facing solar lamps. Relief valve closed.	-11 ⁽²⁾

*Not calculated. Test Point not of sufficient duration.

- (1) (+) indicates heat leak into suit, (-) indicates heat leak out of suit.
- (2) Tears through thermal garment remained open for remainder of experiment after each was opened.
- (3) Steady state conditions not reached.

Maximum heat leakage into the EMU was 211 BTU/hr with full simulation (solar plus lunar radiation) and the suit relief valve open. With the relief valve closed, this value dropped to approximately 130-140 BTU/hr due, apparently, to the decrease in suit conductance. Heat leakage into the suit with lunar surface radiation only and the relief valve closed was 45 BTU/hr (Test Point No. 1, Experiment II-b). This value increased to about 50-60 BTU/hr with the relief valve open. With solar radiation only the heat leakage was approximately 7 BTU/hr into the suit when facing the solar lamps. This value is also in good agreement with Gemini suit test data, Reference 6. Facing away from the solar lamps, a net heat loss from the suit of 31 BTU/hr was obtained. This difference (+7 to -31 BTU/hr) is primarily due to heat leakage through the visor which is discussed in Section 4.2.3.

The suit thermal conductance during cold soak can be estimated as follows (assuming the suit surface area is 25 ft²):

$$Q = U A \Delta t$$

where

Q = Heat leakage through suit, BTU/hr.

A = Surface area of suit, ft².

Δt = Temperature gradient through the suit, °F.

$$U = \frac{Q}{A \Delta t} = \frac{135}{25 (90 - (-200))}$$

$$U = \frac{135}{25 (290)}$$

$$U = 0.0186 \text{ BTU/hr-ft}^2 \text{ °F (cold)}$$

For the solar plus lunar radiation condition, the conductance is:

$$U = \frac{137}{25 (75)}$$

$$U = 0.0731 \text{ BTU/hr-ft}^2 \text{ °F (hot)}$$

Assuming the visor is responsible for approximately 40 BTU/hr in both cases, the actual suit conductance is:

$$U_{\text{cold}} = \frac{95}{25 (90 - (-200))} = 0.0131 \text{ BTU/hr-ft}^2 \text{ °F}$$

and

$$U_{\text{hot}} = \frac{97}{25 (75)} = 0.0517 \text{ BTU/hr-ft}^2 \text{ °F}$$

These conductance values are in general agreement with data given in Reference 7.

4.2.3 NET HEAT GAIN OR LOSS THROUGH VISOR

An indication of the heat gain through the visor due to simulated solar radiation alone can be obtained by comparing net suit heat leakage for test points with the suit facing the solar lamps and with the back to the lamps. The maximum heat gain would be expected with both solar and lunar radiation incident upon the suit; however, since the lunar simulator is symmetrical about the suit, the contribution of the lunar simulator radiation cannot be determined in this manner. A comparison of Test Point No. 2 (facing lamps) and Test Point No. 5 (back to lamps), Experiment II-b (Table VIII) shows a change in net EMU heat leakage from 133 to 84 BTU/hr or a difference of 49 BTU/hr. The net EMU heat leakage changes from +7 (Test Point No. 3, facing lamps) to -31 BTU/hr (Test Point No. 4, back to lamps) during Day No. 1 of Experiment II-a, Table VIII, indicating heat gain through the visor of 38 BTU/hr. These heat leakages are comparable to results reported in Reference 6.

Under combined solar and lunar radiation, visor and dummy face temperatures approached 140°F while in the solar only case the visor temperature was approximately 85°F and the dummy face temperature approximately 90°F. This temperature difference (140 compared to 90°F) would indicate a much larger heat gain for the solar plus lunar condition as compared with the solar only. The complexity of the heat transfer processes involved precludes an analytical determination of the heat gain from measured temperature data.

The heat loss from the visor during cold soak is calculated from the visor temperature. Analysis of measured visor temperatures during Test Point No. 1 of Day No. 1, Experiment II-a (Table VII), shows the visor temperature during cold soak is approximately 54°F when the dummy face temperature is maintained at about 90°F. Lower visor temperatures were recorded during the other cold soak test points; however, the dummy face temperature cannot be maintained in the 80 to 90°F range when the inlet gas is used to control the dummy surface temperature. Consequently, in these test points dummy face temperature as low as 46°F were measured with a corresponding visor temperature of 18°F. This lower temperature would result in less heat loss from the visor but does not yield a realistic value.

Assuming a visor surface area of 0.5 ft² and an emittance of 0.9, the heat loss from the visor at a temperature of 54°F can be calculated as follows:

$$Q = \epsilon \sigma AT^4$$

$$Q = (0.9) (0.1713 \times 10^{-8}) (0.5) (514)^4$$

$$Q = 54 \text{ BTU/hr}$$

These results show the maximum heat gain through the visor to be approximately 40 BTU/hr when facing the sun, while the maximum heat loss

through the visor is approximately 50-60 BTU/hr when facing deep space.

4.2.4 EFFECTS OF CONTACT WITH SPACECRAFT SURFACE

Suit contact with hot and cold spacecraft surfaces produced no measurable perturbations of temperatures in the area of contact. Figures 33 through 36 present recorded temperatures on the upper right arm (where contact with the spacecraft simulator was made), on the thermal garment and through to the dummy's arm. In general, it can be said that contact with the spacecraft simulator produced the following.

- (a) Temperatures inside the thermal garment and the outside of the pressure suit changed approximately 10°F.
- (b) No measurable temperature changes were seen on the dummy arm surfaces.

These observations are in general agreement with observations of a similar test conducted on a Gemini space suit (Reference 6).

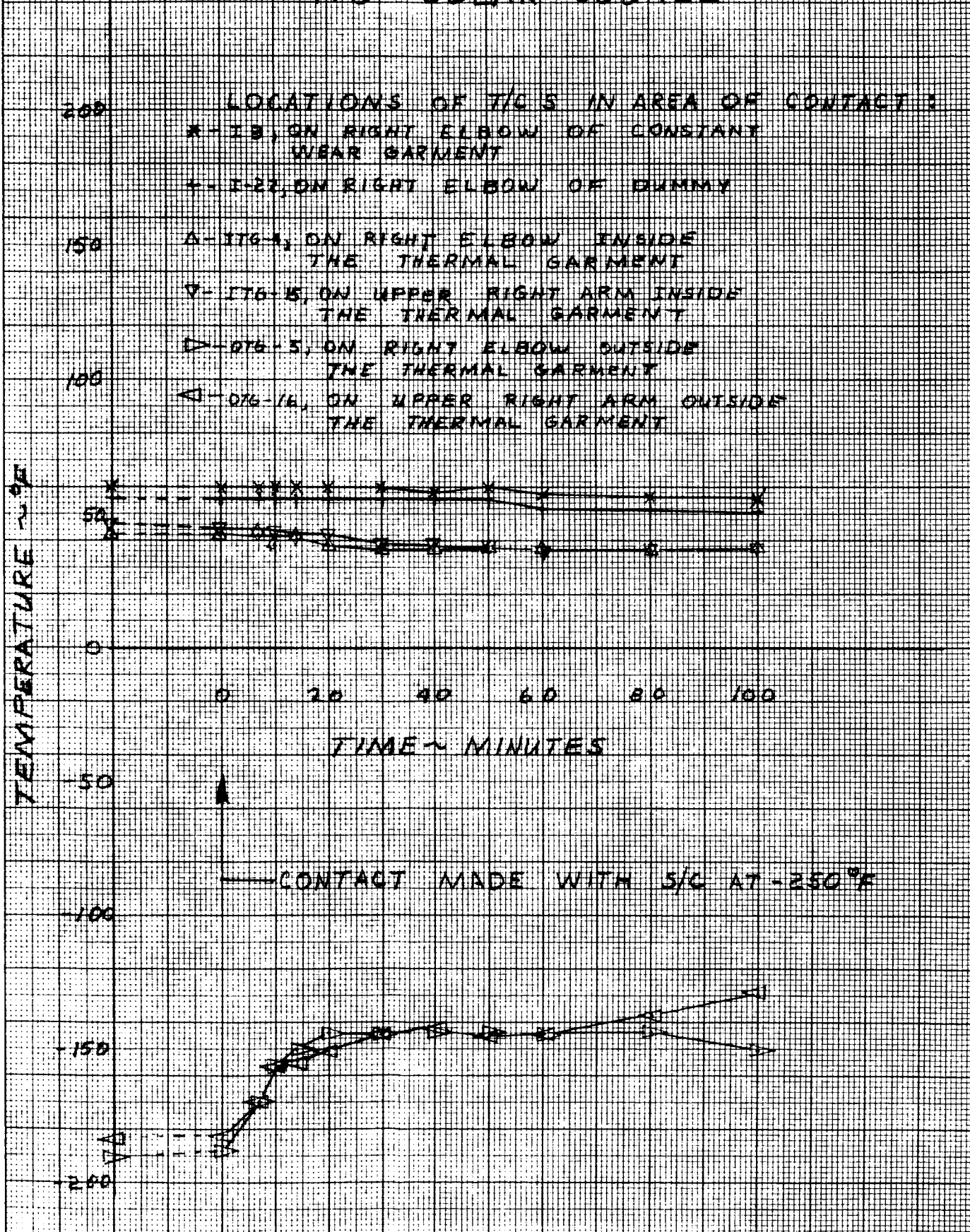
4.2.5 EFFECTS OF SUIT RELIEF VALVE OPERATION

Four tests were conducted during Experiments II-b and II-c in which the suit overpressure relief valve was actuated by increasing suit pressure to greater than 5.5 psig. When it was actuated, the relief valve (located on the left leg of the PGA) released gas into the area underneath the thermal garment.

Relief valve operation produced two obvious effects.

- (a) Temperature on the lower parts of the EMU were noticeably affected, especially on the left leg above the relief valve. Figures 37 and 38 present a history of the thermocouples in the areas affected following opening of the valve. Temperatures on the pressure garment and inside of the thermal garment began to rise (approximately 25°F increase). On both Figures 37 and 38, the outer thermal garment cover is seen to suddenly decrease in temperature. All these observations are indicative of an increase in heat transfer into the suit. The surface temperature of the thermal dummy increased after actuation of the valve; however, temperatures on other parts of the dummy were also increasing. Therefore, it is not easy to determine the reaction of the dummy specifically to the release of gas through the relief valve. (No suit cold soak tests were performed with the relief valve open).
- (b) The total heat leak into the suit increased when the relief valve was opened. Tables VIII and IX supply the following comparison of suit heat balance with the relief valve opened and closed (all conditions with both solar and lunar radiation).

FIGURE 33
EFFECT OF CONTACT WITH
COLD SPACECRAFT SURFACE,
NO SOLAR SOURCE



PHOTOGRAPHED BY THE GERMANY 46 1573
 10 X 10 TO THE CENTIMETER 25 X 25 CM
 KEUFFEL & ESSER CO.

FIGURE 34
EFFECT OF CONTACT WITH
HOT SPACECRAFT SURFACE,
NO SOLAR SOURCE

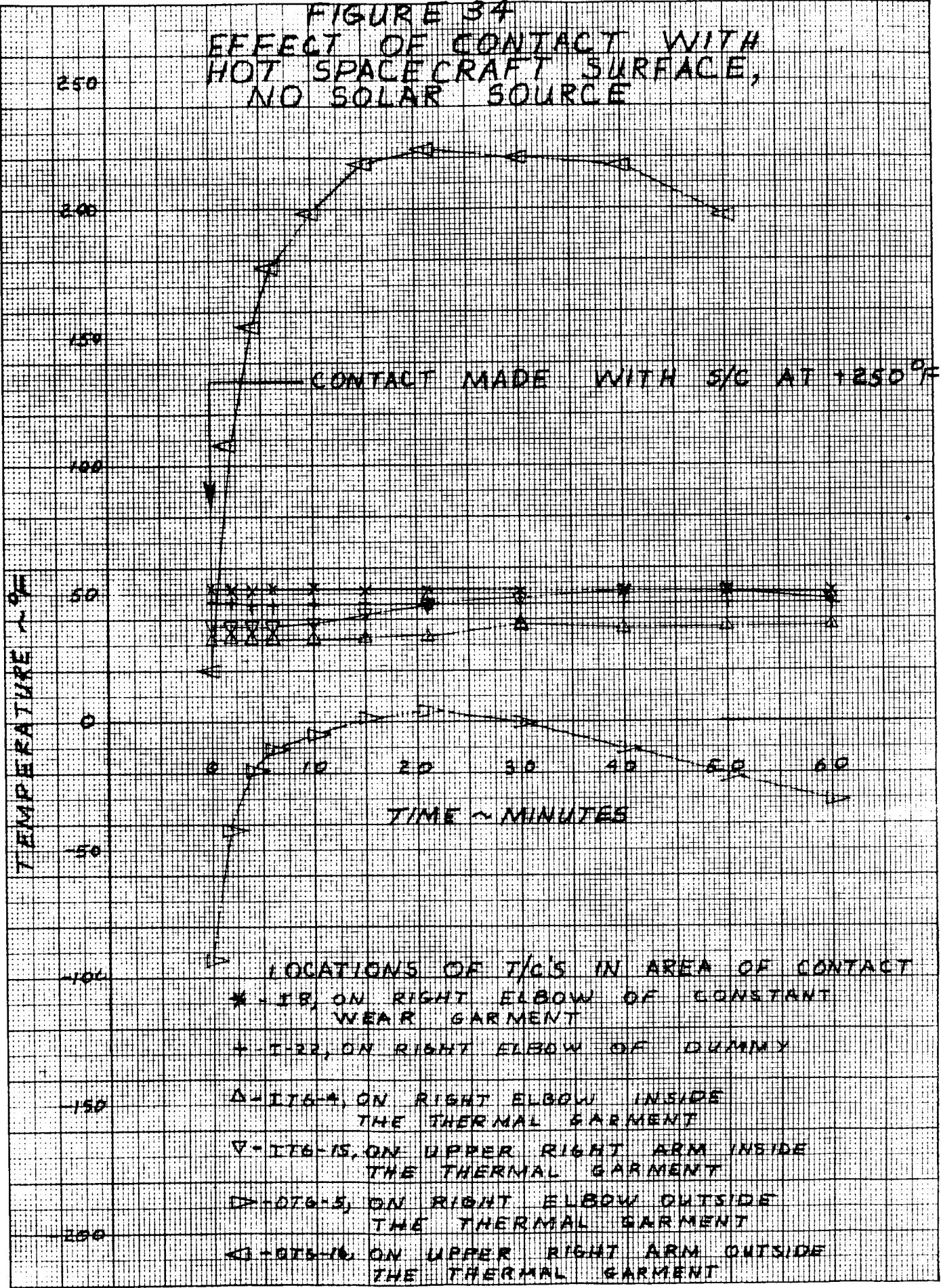
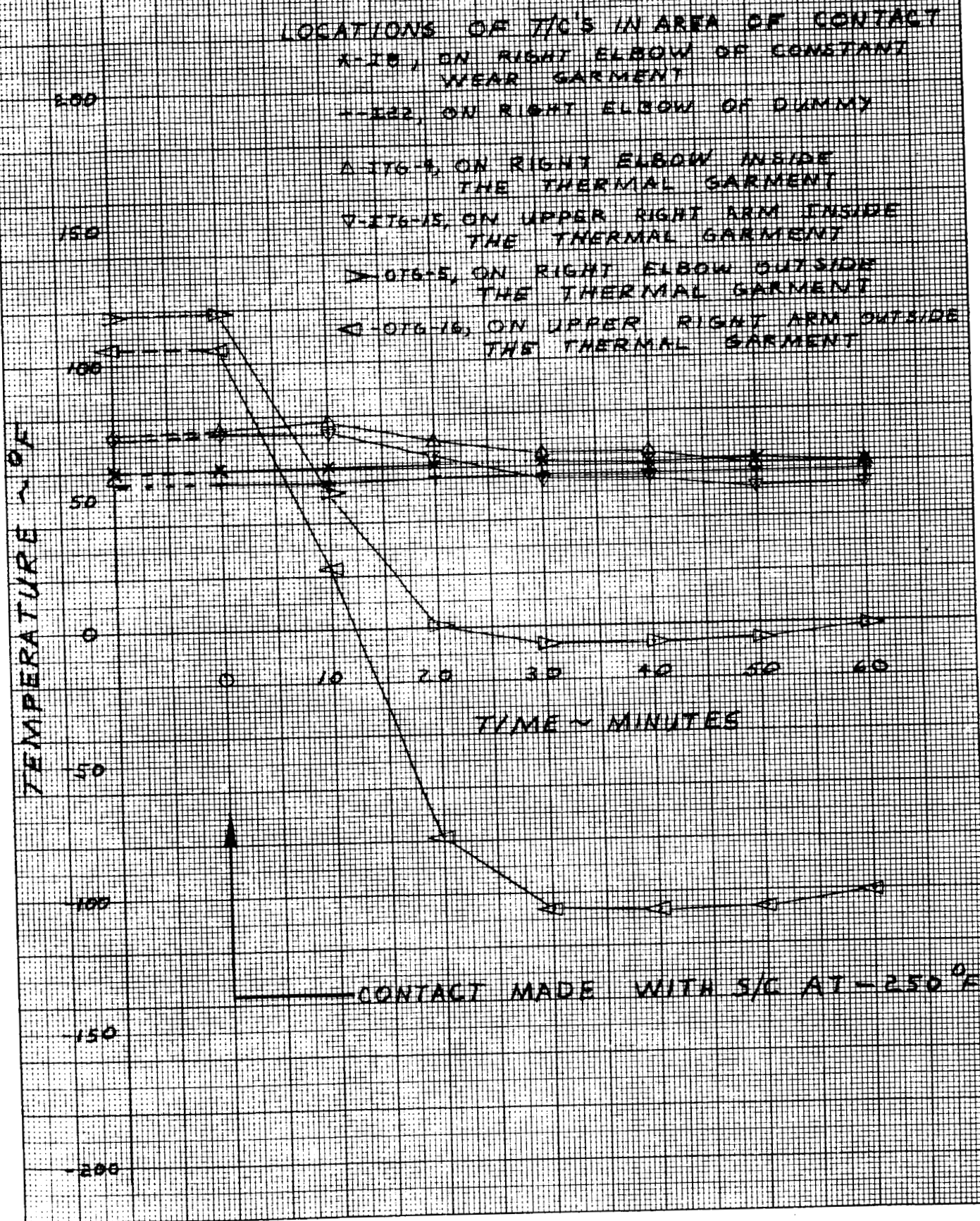
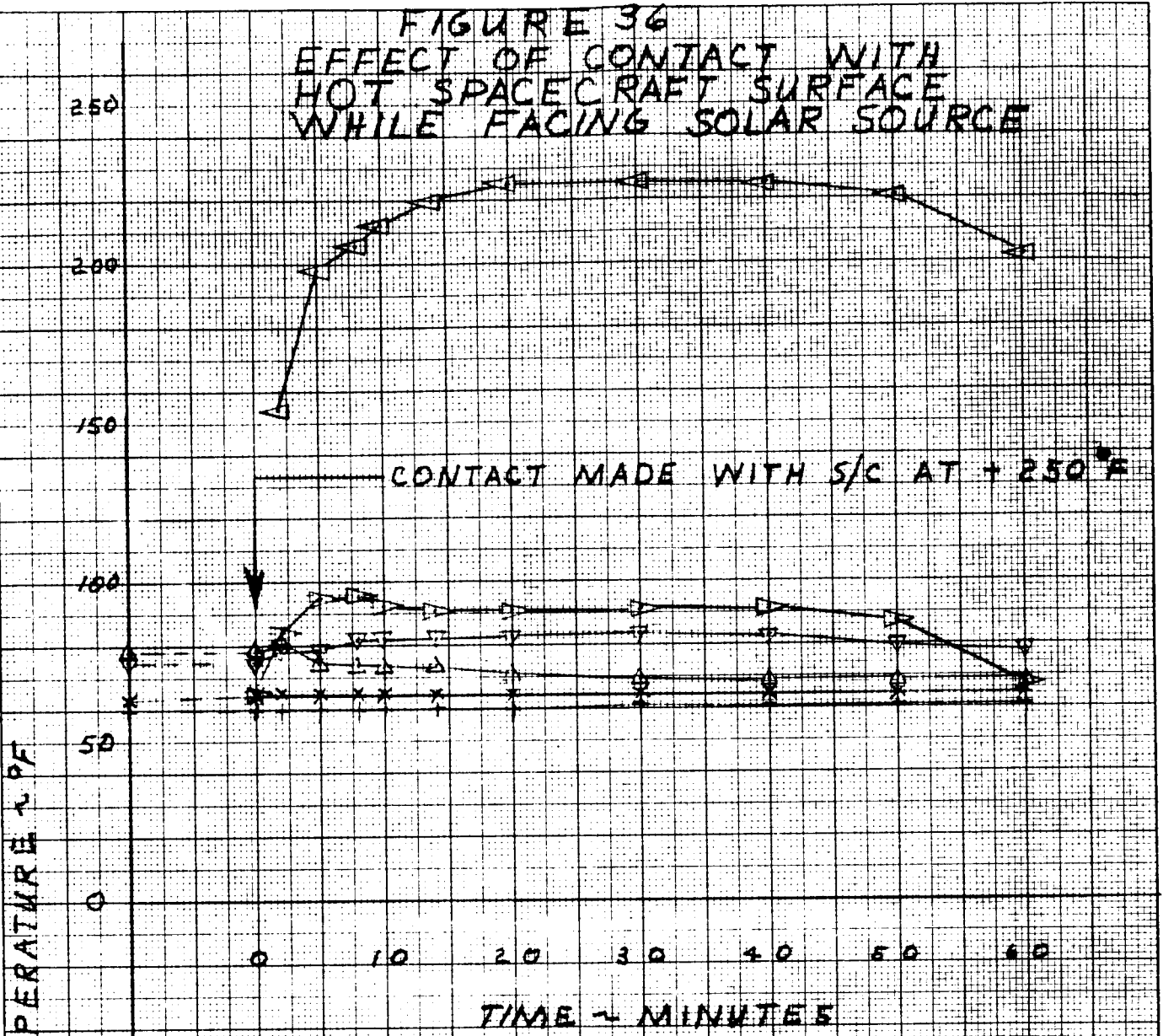


FIGURE 35 EFFECT OF CONTACT WITH COLD SPACE CRAFT SURFACE WHILE FACING SOLAR SOURCE



KEUFFEL & ESSER CO.
 10 X 10 TO THE CENTIMETER 46 1513
 1 1/4 X 2 1/2 CM MADE IN U.S.A.

FIGURE 36
EFFECT OF CONTACT WITH
HOT SPACECRAFT SURFACE
WHILE FACING SOLAR SOURCE



LOCATIONS OF T/C'S IN AREA OF CONTACT

- *-ITG, ON RIGHT ELBOW OF CONSTANT WEAR GARMENT
- +ITG, ON RIGHT ELBOW OF DUMMY
- Δ-ITG-4, ON RIGHT ELBOW INSIDE THE THERMAL GARMENT
- ◻-ITG-15, ON UPPER RIGHT ARM INSIDE THE THERMAL GARMENT
- ◊-DTG-5, ON RIGHT ELBOW OUTSIDE THE THERMAL GARMENT
- ◀-DTG-16, ON UPPER RIGHT ARM OUTSIDE THE THERMAL GARMENT

FIGURE 37

EFFECTS OF SUIT PRESSURE RELIEF VALVE OPERATION - AREA OF UPPER RIGHT LEG (EXP. II-C)

- Lunar Sim. On
- Solar On
- Suit Facing Solar
- Dummy Heaters Off

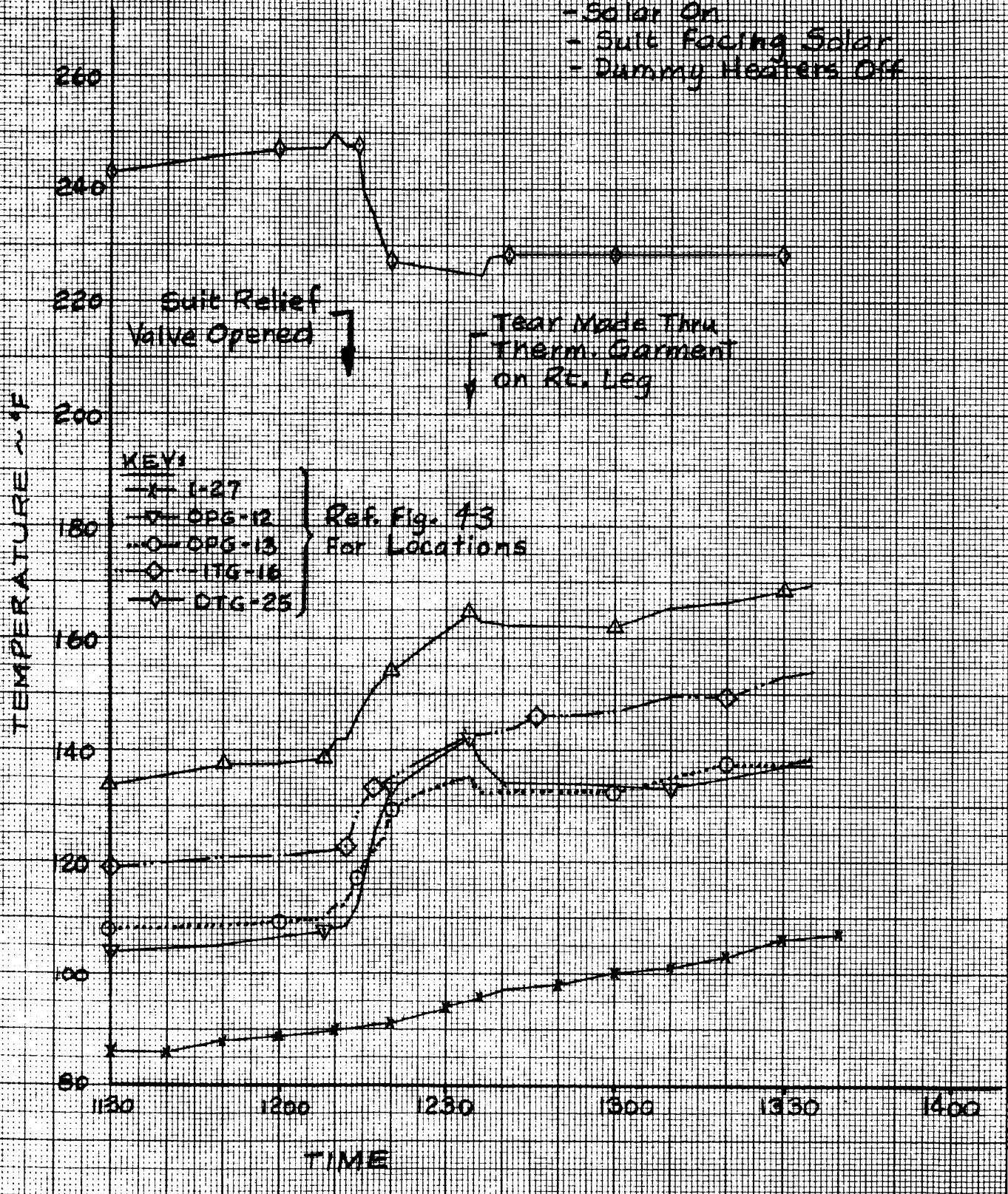
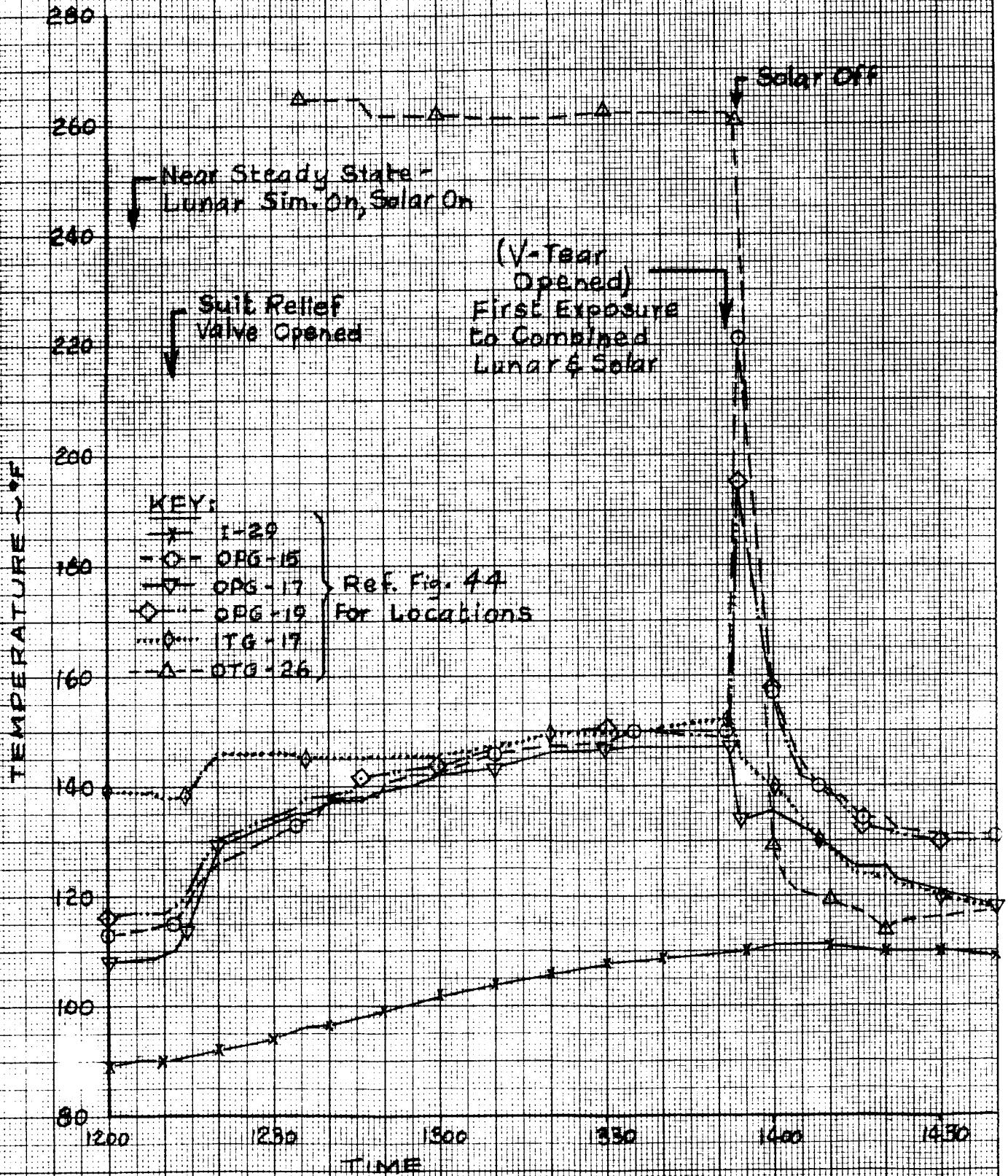


FIGURE 38
EFFECTS OF RELIEF VALVE OPERATION
ON T/C's ON UPPER LEFT LEG
(EXP. I-C)



Relief Valve Closed:

133 BTU/hr into suit (Test Point No. 2, Experiment II-b)

137 BTU/hr into suit (Test Point No. 1, Experiment II-c)

Relief Valve Open:

192 BTU/hr into suit (Test Point No. 9, Experiment II-b)

211 BTU/hr into suit (Test Point No. 2, Experiment II-c)

The increase in heat leaks into the suit is judged to be the result of introduction of gas conduction into the thermal garment insulation by the release of suit gas into the area underneath the insulation.

4.2.6 EFFECTS OF RIPS THROUGH THERMAL GARMENT

Two tears or rips were made through the EMU thermal garment to evaluate their effects. The tears were made on the upper thigh area: a six-inch vertical tear on the right thigh (Figure 39) and an inverted V-shaped tear on the left thigh (Figure 40). The EMU was then exposed to a combination of lunar surface conditions during Experiment II-c including extended outflowing of suit gas through the relief valve into the area underneath the thermal garment.

Analysis of the data indicates the following effects of the tears through the thermal garment.

(a) No gross effects on the overall EMU thermal balance are detected. For comparison, it is noted from Tables VIII and IX that the overall EMU heat balance for two otherwise identical conditions are nearly the same value before and after the tears were made (Experiment II-b, Test Point No. 1 versus Experiment II-c, Test Point No. 4: hot lunar surface conditions, no solar).

(b) Figures 41 and 42 in addition to Figure 38 show that the PGA materials exposed by the thermal garment tears underwent rapid and severe temperature increases during the two short exposures to combined solar and lunar surface radiation. It is interesting to note that the local thermal dummy surface temperature, however, did not respond immediately. This is judged to be due to diffusion by the inner PGA materials of the heat leak over a larger area, thus reducing the concentration of heat on the dummy.

The PGA materials exposed through the tears to lunar surface radiation only (no solar) were only about 15°F hotter than before the tears were made. (Compare thermocouples OPG-15 and 19 at 1200 hours on Figure 38 with OPG-15 and 19 at 1505 hours on Figure 42). The fact that the increase is small is probably attributable to the fact that none of the lunar simulator lamps shined directly into the tears.

(c) Consideration of what would happen to an uninsulated suit in the hot lunar environment leads to the conclusion that the heat input into



NOTE: ALUMINIZED MATERIAL IS INSULATION ON SUIT RETURN UMBILICAL

FIGURE 39 VERTICAL TEAR THROUGH THERMAL GARMENT ON RIGHT LEG (EXP. II-C)



NOTE: ALUMINIZED MATERIAL IS INSULATION ON INSTRUMENTATION LEADS AND INLET GAS LINE

FIGURE 40 INVERTED "V" TEAR THROUGH THERMAL GARMENT ON LEFT LEG (EXP. II-C)

FIGURE 41

EFFECT OF VERTICAL TEAR IN
RIGHT LEG OF THERMAL GARMENT

(Test Pt. 5, Exp. II-c)

- Facing Solar
- Relief Valve Closed
- Dummy Heaters off

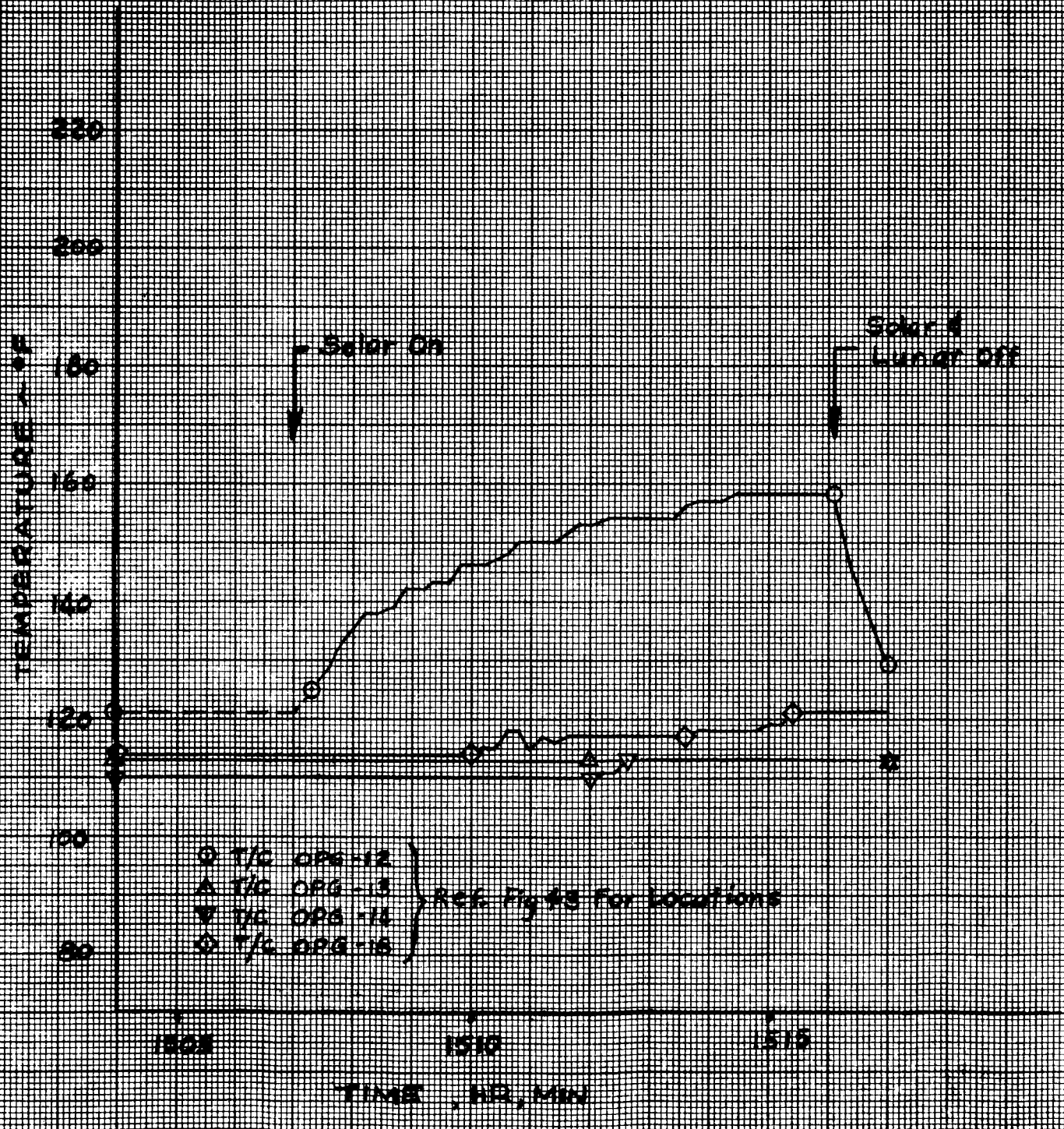


FIGURE 42

HISTORY OF THERMOCOUPLES EFFECTED
 BY SECOND EXPOSURE OF V-TEAR
 THRU THERMAL GARMENT TO COMBINED
 LUNAR & SOLAR RADIATION
 (Test Pt. 5, Exp. II-C)

- Suit Relief Valve Closed
- Lunar on prior to 1504

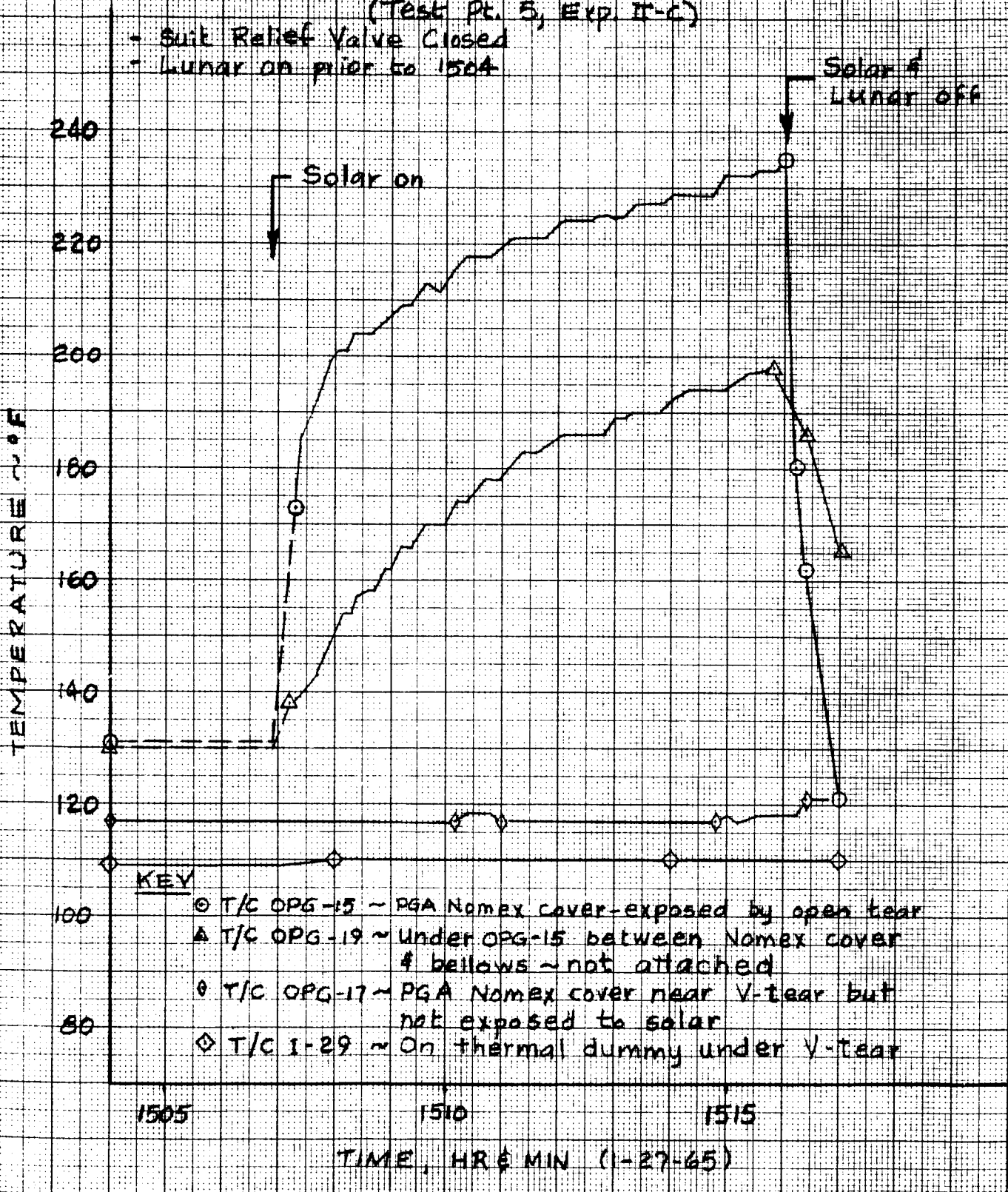


FIGURE 43

THERMOCOUPLE LOCATIONS RELATIVE TO VERTICAL TEAR THRU THERMAL GARMENT (ON RT. LEG)

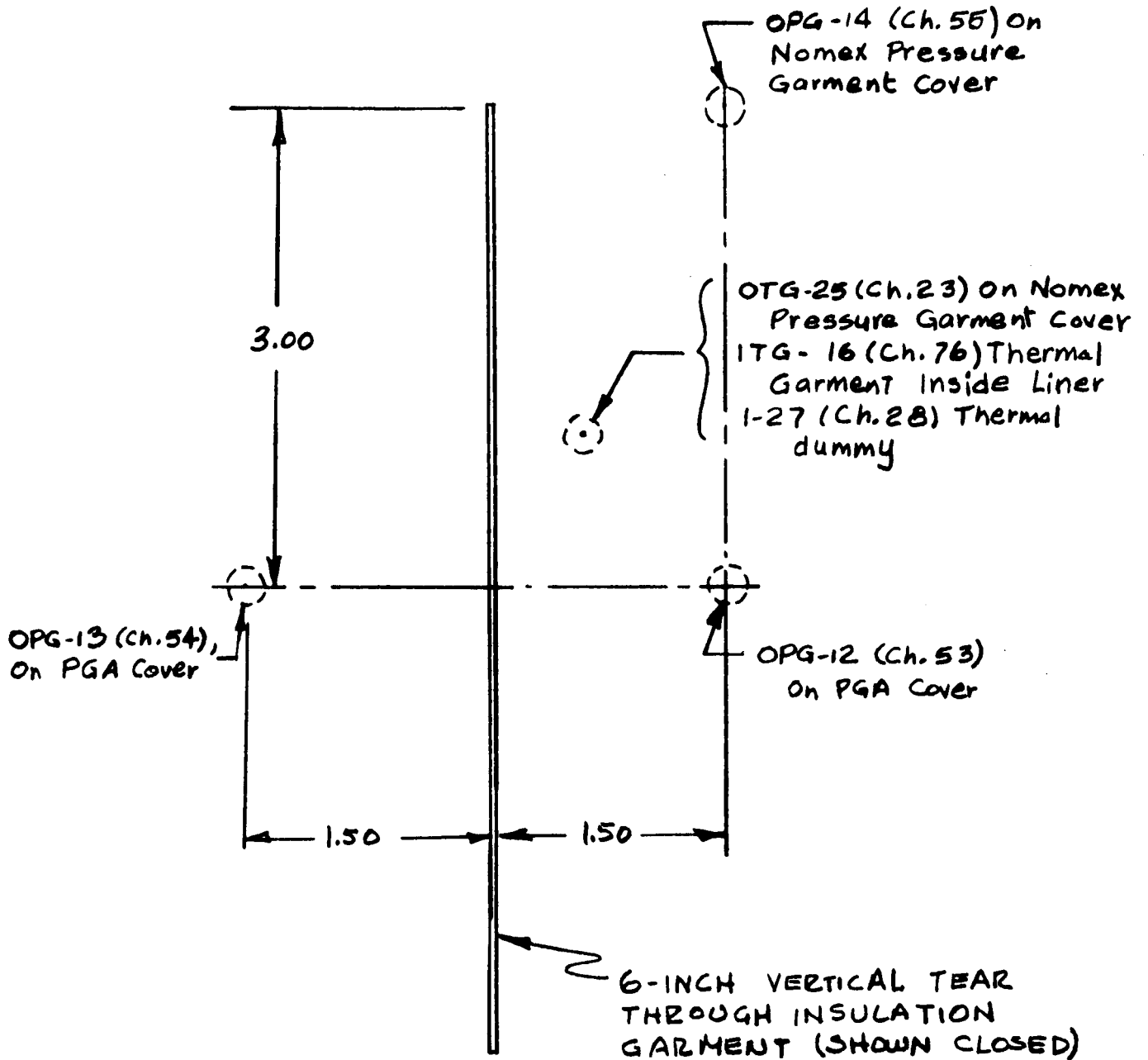
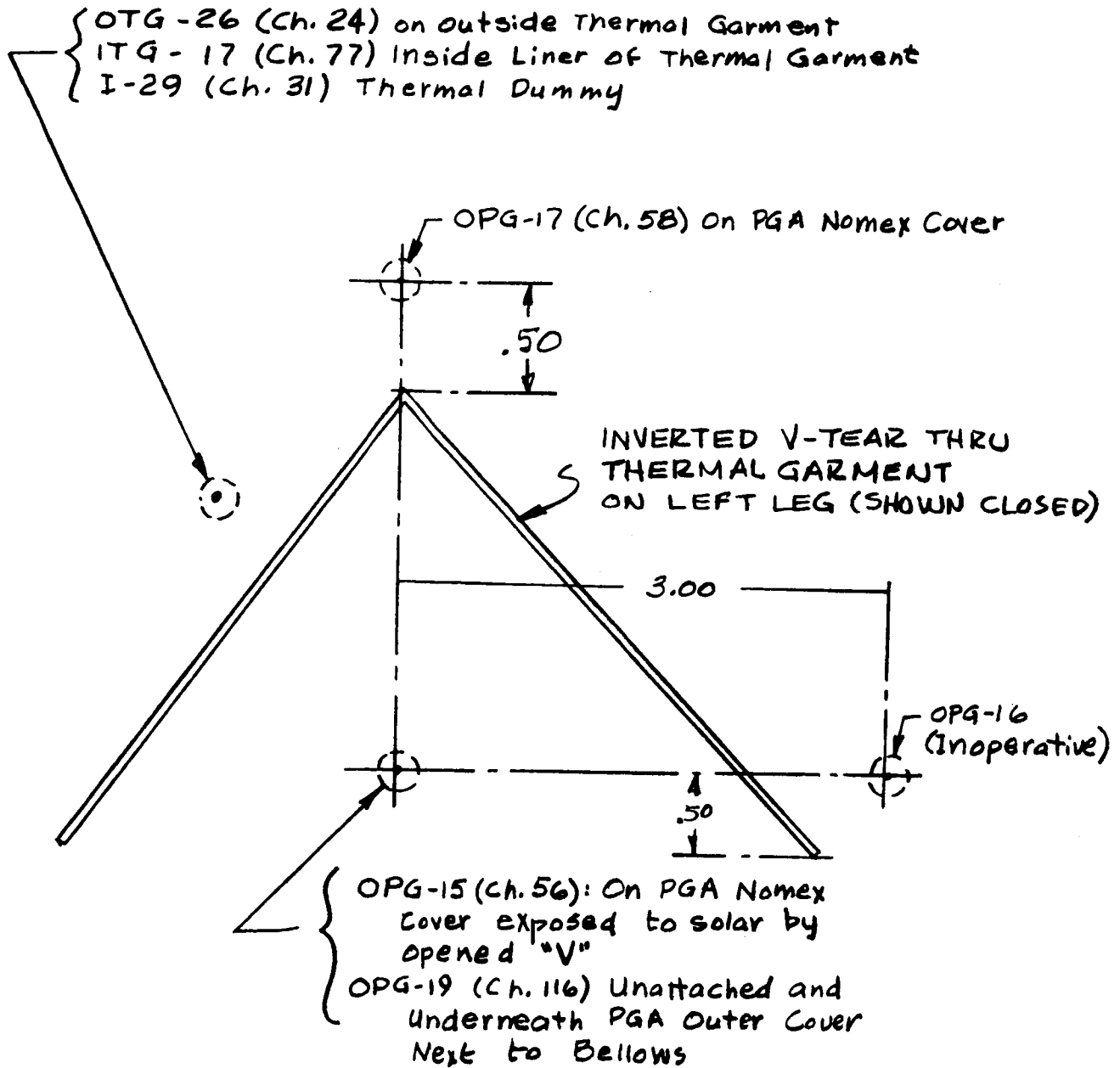


FIGURE 44

THERMOCOUPLE LOCATIONS RELATIVE TO V-TEAR THRU THERMAL GARMENT ON LEFT LEG



the suit would quickly become intolerable. If the temperatures shown on Figure 42 are indicative of what the entire uninsulated suit surface temperatures would be, the suit occupant's skin would undoubtedly surpass the threshold of pain as soon as the heat transient penetrated into the inner suit. These conclusions are somewhat borne out by results of an uninsulated Mercury space suit test reported in Reference 8.

4.2.7 SUIT GAS LEAKAGE AND OVERPRESSURE RELIEF VALVE CHARACTERISTICS

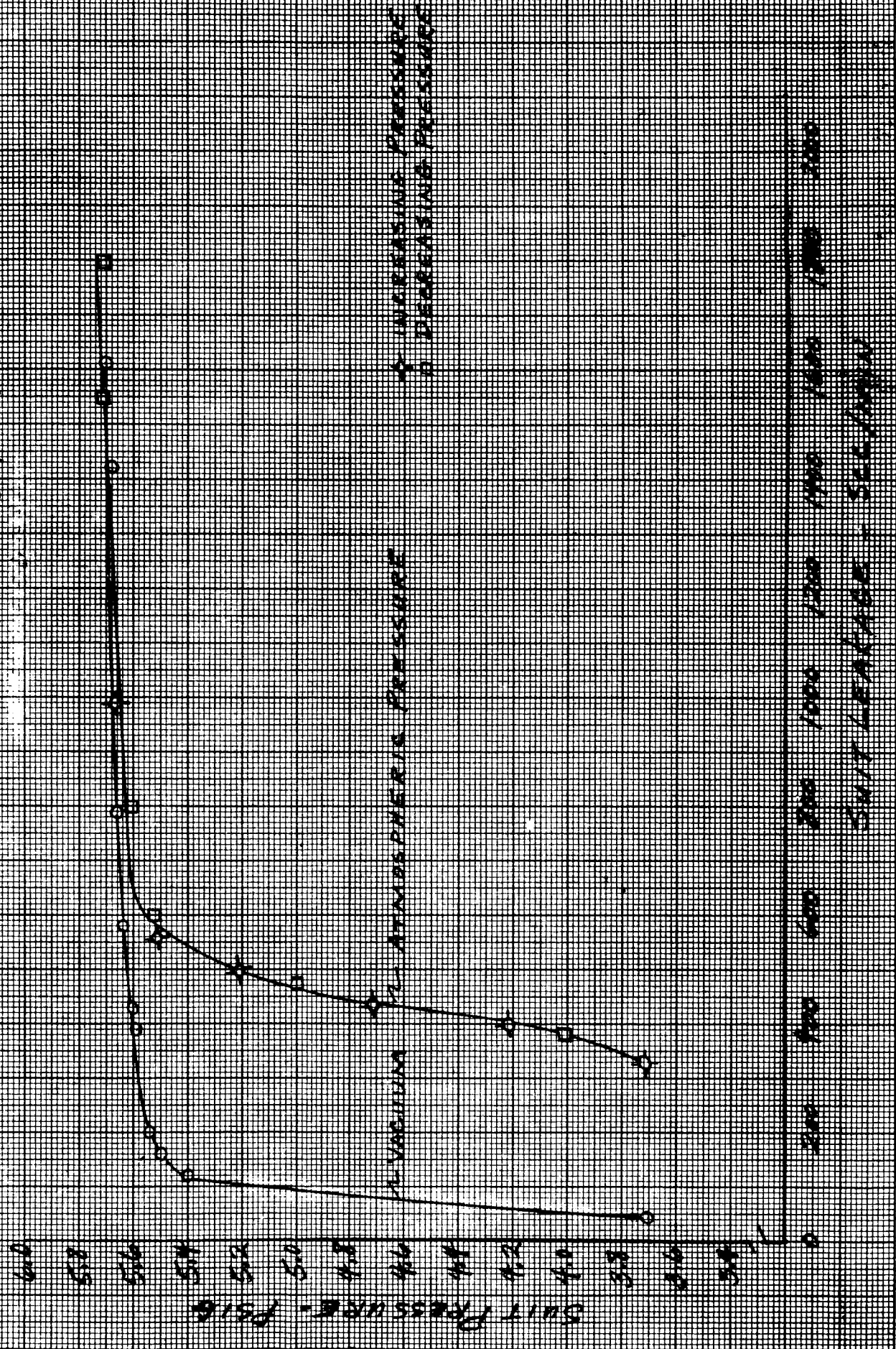
Suit leakage was measured periodically throughout the three experiments employing the procedure outlined in Section 3.3.2.7. The results are presented in Appendix F. In general, suit leakage varied from about 40 to 45 sec/min (air at 14.7 psia and 70°F).

Suit relief valve characteristics are shown in Figure 45. Data were taken at atmospheric pressure before pumpdown of the chamber and in vacuum. At atmospheric pressure, data were recorded for both increasing and decreasing suit pressure to determine possible hysteresis effects in the valve (Figure 45). The data show no significant difference, indicating repeatability of valve performance. The data show the suit leakage increases abruptly at approximately 5.4 psia and becomes practically independent of pressure. Reference 9 states that at atmospheric pressure the relief valve must open at or above 5.0 psig and be fully open at 6.0 psig.

4.2.8 SOUND LEVEL MEASUREMENTS IN HELMET

A microphone was installed on the left side of the dummy head such that the microphone fitted into the helmet earpiece. The primary purpose of the microphone was to determine if there was any appreciable increase in sound level due to opening or closing of the suit overpressure relief valve. This measurement was performed by comparing measured sound levels in the helmet against a source of known intensity. The data did not show any increase in sound level in the helmet due to operation of the relief valve.

FIGURE 15
 SUIT RELIEF VALVE CHARACTERISTICS



5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 CONCLUSIONS

The following conclusions are reached with regard to the thermal performance of the Apollo Extravehicular Mobility Unit (EMU). These conclusions are reached on the basis of data and observations from Experiments II-a, II-b and II-c.

1. Minimum EMU thermal garment temperatures in space will be approximately -200°F. On the surface of the moon, the EMU thermal garment cover temperature can be expected to reach 250°F or more during daylight operation.
2. Maximum heat leaks into the EMU were computed to be 133 BTU/hr for normal operation in simulated hot lunar surface conditions. This value increased to 192 BTU/hr when the suit relief valve opened and further to 211 BTU/hr with small tears in the thermal garment.
3. Maximum heat leaks out of the suit in simulated dark space operation were 135 BTU/hr.
4. Contact with simulated hot and cold spacecraft surfaced produced no more than negligible effects.
5. Opening of the suit relief valve produces an abrupt increase in heat transfer through the thermal garment.
6. Simulated tears through the thermal garment produced extreme temperature levels in the area of the tears.
7. The suit leakage during the tests was 40 to 45 sccm. Relief valve operation appeared to be normal.
8. Helmet visor temperature measurements indicate that the clear visor will probably fog.
9. The dacron thermal garment cover darkens after exposure to the solar. No post-test inspection of the thermal garment insulation materials was made.

5.2 RECOMMENDATIONS

1. It is felt that an investigation is warranted to determine the integrity of mylar film when the thermal garment cover exceeds 250°F.
2. It is recommended that heated hands and feet be fitted to the thermal dummy during future tests.
3. More thermocouples should be placed inside the suit in areas where hot or cold spots might possibly exist.
4. Worst anticipated conditions on the lunar surface should be studied further and better defined for future Apollo EMU tests.
5. The quality of the test data could be improved if a method of cooling the dummy to body temperature were incorporated. The water-cooled Apollo suit might solve this problem.

APPENDIX A

ANALYSIS OF THERMAL DUMMY HEAT CAPACITY



APPENDIX A

ANALYSIS OF THERMAL DUMMY HEAT CAPACITY

The rate at which energy is stored in or lost from the thermal dummy is a function of the dummy weight, specific heat and rate of change of temperature. The total weight of the dummy is approximately 57 pounds as stated in Section 3.3.2.1 where dummy construction details are described. However, since the dummy has eight individual heater circuits located in the right and left arms, upper and lower right and left legs, torso and head, the weight of these segments may be more significant if the whole dummy does not increase in temperature at a uniform rate. The weights of the various dummy segments are given in Table A I.

In these tests the left hand was removed to accommodate the instrumentation feed throughs.

The heat capacity of the dummy shell can be determined if the total weight of fiberglass and copper comprising the dummy shell are known, since the total weight of the dummy heated segments has been measured.

In Section 3.3.2.1 the thickness of the outer fiberglass layer was given as 0.11 inches and the inner layer as 0.050 inches. The thickness of the copper layer between the two fiberglass layers was given as 0.0312 inches. Assuming a dummy surface area of 17 square feet (Reference 10) and density of 0.061 lbs/in³ (Reference 11) the total weight of the fiberglass can be calculated as follows:

$$W_{FG} = A \times x \times \gamma$$

$$W_{FG} = (17.0) (144) (0.160) (0.061)$$

$$W_{FG} = 23.9 \text{ lbs.}$$

Where

A = Total surface area of dummy, ft².

x = Total thickness of both outer and inner layers of fiberglass, inches.

γ = Density of fiberglass perform mat and 50% polyester, lbs/in³.

TABLE AI
WEIGHT OF THERMAL
DUMMY SEGMENTS

<u>SEGMENT</u>	<u>WEIGHT, POUNDS</u>
Head	3.25
Torso	18.81
Right Arm	4.00
Left Arm	4.00
Upper Right Leg	7.00
Lower Right Leg	2.44
Upper Left Leg	6.69
Lower Left Leg	2.44
	<hr/>
Total Weight of Heated Segments	48.63
Unheated right hand	1.25
Unheated left hand	1.25
Unheated right foot	2.88
Unheated left foot	2.94
	<hr/>
Total Weight of Dummy	56.95 *

*Minus the Left Hand the dummy total weight is 55.7 lbs.
The left hand was not used.

The weight of copper can be calculated in the same manner as follows:

$$W_{cu} = A \times \delta$$

$$W_{cu} = (17.0) (144) (0.0312) (0.318)$$

$$W_{cu} = 24.3 \text{ lbs.}$$

The total weight of fiberglass and copper is then:

$$W_{Total} = 23.9 + 24.3 = 48.2 \text{ lbs.}$$

This calculated weight of 48.2 lbs. is 0.43 lbs. less than the measured total weight of the heated segments (48.63 lbs) given in Table A I. This difference is due mainly to variations in thickness of the fiberglass and copper layers over the surface of the dummy; therefore, the total weight of fiberglass and copper have been adjusted to 24.12 and 24.52 lbs., respectively, by equally distributing the difference.

The heat capacity of the laminate shell can now be calculated as follows:

$$(WC_p)_s = (WC_p)_{FG} + (WC_p)_{cu}$$

$$(WC_p)_s = (24.12) (0.33) + (24.52) (0.10)$$

$$(WC_p)_s = 7.95 + 2.45$$

$$(WC_p)_s = 10.4 \text{ Btu/}^\circ\text{F}$$

Where

$$(WC_p)_s = \text{Weight of dummy shell (Total weight of heated segments) times specific heat at constant pressure of shell } \frac{\text{Btu}}{^\circ\text{F}}$$

$$(WC_p)_{FG} = \text{Total weight of fiberglass times specific heat at constant pressure of fiberglass, Btu/}^\circ\text{F.}$$

$$(WC_p)_{cu} = \text{Total weight of copper times specific heat at constant pressure of copper, Btu/}^\circ\text{F.}$$

The specific heat at constant pressure of the laminate shell is then calculated as follows:

$$Cp_s = \frac{(WC_p)_{FG} + (WC_p)_{cu}}{W_s} = \frac{10.4}{48.64}$$

$$Cp_s = 0.214 \text{ Btu/lb } ^\circ\text{F}$$

The heat capacity of each heated segment of the dummy (head, torso, etc.) can now be determined by multiplying the specific heat of the shell by the respective segment weight. The rate at which heat is stored or lost for a segment is obtained by multiplying the heat capacity (WC_p) of the segment by the rate of change of the segment temperature. Assuming the rubber hand and feet to have a specific heat of 0.48 Btu/lb^oF, the rate at which heat is stored or lost for the hand and feet is calculated in the same manner.

The total heat capacity of the dummy can now be calculated as follows:

$$(WC_p)_D = (WC_p)_S + (WC_p)_{HF}$$

Where

$$(WC_p)_D = \text{Total weight of dummy times specific heat at constant pressure of dummy, Btu/}^{\circ}\text{F}$$

$$(WC_p)_{HF} = \text{Total weight of right hand and feet times specific heat at constant pressure of rubber, Btu/}^{\circ}\text{F}$$

$$(WC_p)_D = (10.4) + 7.07(0.48) = 10.443.4$$

$$(WC_p)_D = 13.8 \text{ Btu/}^{\circ}\text{F}$$

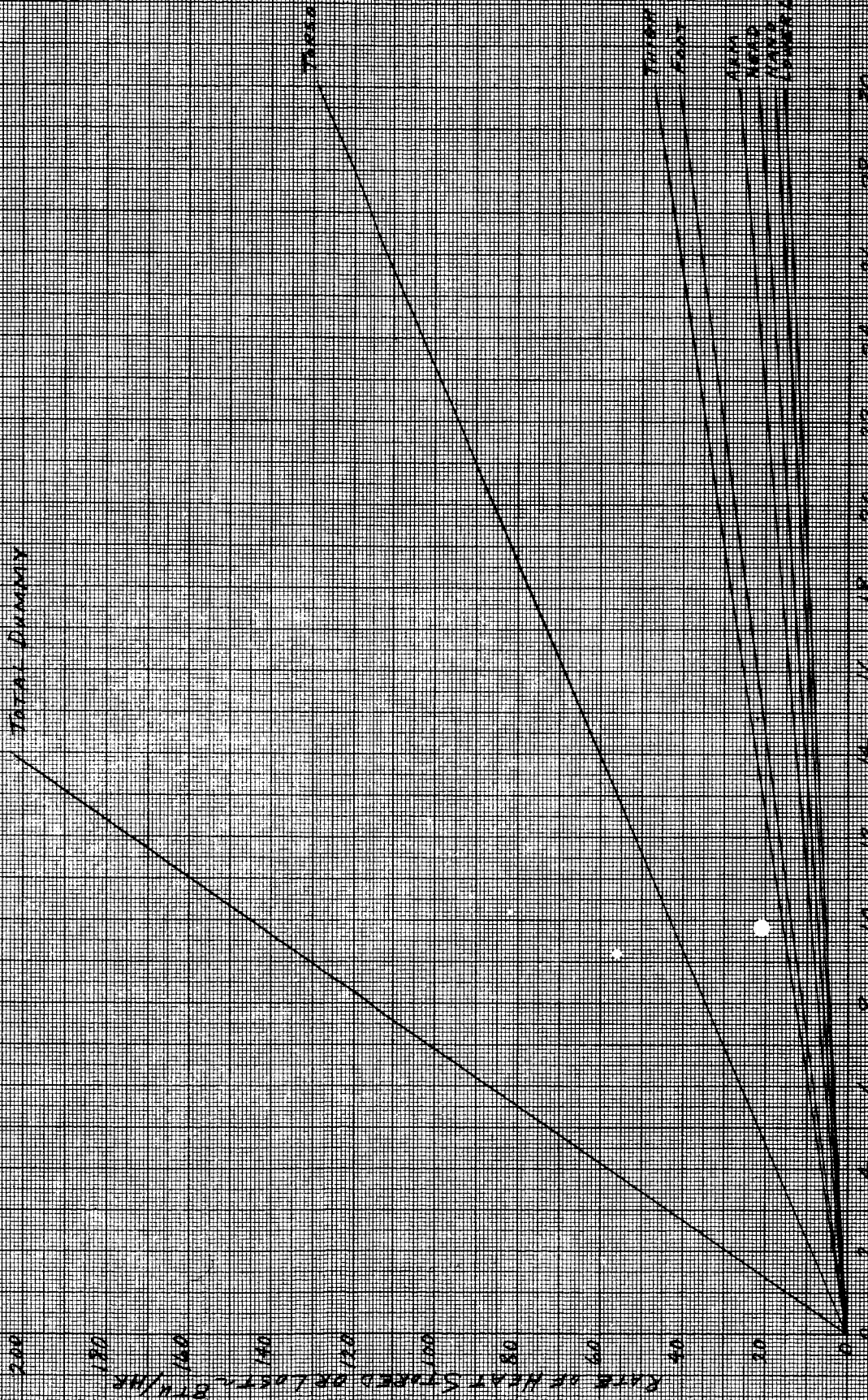
The effective specific heat of the dummy (shell plus unheated hand and feet) is then

$$C_{pD} = \frac{13.8}{55.7} = 0.248 \text{ Btu/lb}^{\circ}\text{F}$$

The results of these calculations are presented in Figure A1 which shows the rate at which heat is stored or lost for the various segments and the total dummy versus rate of temperature increase or decrease. If the heated segments are changing in temperature at different rates then the individual curves for the head, torso, etc. can be used to determine the rate at which heat is stored or lost for each segment and the total rate of heat stored or lost for the dummy can be obtained by adding the individual quantities. If the whole dummy is changing in temperature at a uniform rate, then the total rate of heat stored or lost from the dummy can be read directly from the upper curve.

FIGURE A1
THERMAL DUMMY HEAT CAPACITY
(UNHEATED HANDS/FEET)

Total Dummy



Rate of Temperature Increase or Decrease - °F/HR

APPENDIX B
ANALYSIS OF
ACTUAL AND SIMULATED LUNAR ENVIRONMENT

APPENDIX B

INTRODUCTION

This Appendix presents a discussion of the lunar thermal environment and its simulation during Experiments IIb and IIc. This Appendix also presents a discussion, analysis and calibration of the lunar surface simulators that were used to simulate the moon's hot side environment. Simulation objectives are compared with the actual fluxes that were provided during the tests.

A hardware description of the lunar simulator was presented in paragraph 3.3.2.3 of this report.

DISCUSSION

Actual Lunar Surface Environment

Lunar surface temperatures during the lunar night are generally conceded to be about -250°F . For this condition, no simulation other than the cryogenic cold wall of the SES was required during experiments IIb and IIc. Lunar surface fluxes and temperatures during the lunar day are severely high and reach a maximum of the order of 250°F near noon or the subsolar point. It is the high noon or maximum flux environment that required construction of a lunar surface flux simulator for Experiments IIb and IIc.

The design of the lunar surface flux simulator for Experiments IIb and IIc and the simulated flux values provided were based on the following values and assumptions:

- a. The lunar albedo (reflected sunlight) is 7% of the incident solar (Reference 14).
- b. Lunar surface conditions are those near lunar noon or subsolar point.
- c. Steady state or quasi-steady state temperatures. This can be safely assumed because of the moon's slow rotation and lack of an atmosphere.
- d. The Apollo EMU is standing or upright.
- e. Reflection and emission by the lunar surface are diffuse.
- f. Incident solar flux is 442 BTU/hr ft.^2 . The variation from this mean value is approximately 0.5%.

For the nominal design condition it was assumed that the Apollo EMU is standing on a lunar plain or nearly flat surface. (The effects of lunar surface irregularities is discussed later in this Appendix.) Since

quasi-steady state conditions are assumed, an energy balance can be written for the surface to determine the surface fluxes at noon.

$$q_{\text{emitted}} = q_{\text{absorbed}} \quad (q \text{ into surface} \approx 0)$$

$$q_{\text{emitted}} = (1 - \rho_s) S_{\text{solar}} \cos \theta = (1 - .07)(442)(1.0) = 412$$

where ρ_s is the solar reflectance (albedo) and θ is the sun's zenith angle (zero at the subsolar point). The emissivity of the lunar surface can be approximated by the following equality.

$$q_{\text{emitted}} = \epsilon T^4 = 412 \text{ BTU/hr ft.}^2$$

A maximum lunar surface temperature of 250°F (the value most often quoted in the literature) indicates by the above relationship that the moon's surface emissivity is about 0.93, or equal to its solar absorptivity.

The values of flux intercepted by an Apollo EMU standing on the lunar surface define the simulation objectives for Experiments IIB and IIC. Under the conditions described in the preceding paragraph, the lunar surface fluxes on the suit can be determined if the geometry of the suit surfaces is described. A quick approximation can be arrived at by permitting the suit or EMU to be approximated by an equivalent right cylinder. The lunar surface flux incident on the sides of the equivalent cylinder is

$$E = E_L F_A, \text{ BTU/hr ft.}^2$$

where F_A is the configuration factor between the sides of the cylinder and the surrounding lunar plain expressed by the ordinary relationship:

$$F_A = \int \frac{\cos \theta_1 \cos \theta_2 dA_{\text{surface}}}{\pi r^2}$$

The value of F_A between the sides of an equivalent cylinder and the flat lunar surface is one half (0.50). Then, the lunar surface flux incident on the suit (approximated by a cylinder) at noon is $0.50(412) = 206$ BTU/hr ft.² The actual suit, however, is not of regular geometry. The flux incident on the many different orientations of the segments of the actual suit can be determined by using the general form factor plot presented by Figure 25 of this report.

The preceding discussion is concerned with lunar surface radiation only. The complete energy balance on a suit on the moon includes incident albedo plus direct solar. The total intercepted energy for an elemental area will be as follows:

$$q_{\text{absorbed}} = \epsilon E_L F_A + \alpha_s E_A F_A + \alpha_s S \cos \phi$$

where

ϵ = emissivity

α_s = solar absorptivity

E_L = lunar surface emitted energy

E_A = lunar albedo

F_A = configuration factor between suit elemental area and lunar surface

ϕ = angle between suit surface normal and sun's rays.

The foregoing heat balance is used to arrive at the summary presented at the end of this Appendix and in paragraph 3.6.2 of this report.

Effects of Lunar Surface Roughness

The true lunar surface is known to be punctuated by craters, hills, mountains, etc. To gain an estimate of their effects, the case of an astronaut near a lunar hill or crater wall was considered. The assumed geometry of the hill is shown on Figure B1.

To perform the analysis, the surface was divided into "nodes" as shown on Figure B1 and a "radiosity" network established for solution by Oppenheim's "radiosity" analog. Radiosity networks are discussed by Eckert and Drake (Reference 12) and Oppenheim's analog is discussed in Reference 13. A brief discussion of the various techniques of calculation of radiant interchange between surfaces will be found in Reference 14.

For n surfaces receiving solar radiation directly and by reflections from each other, there are two governing equations.

$$\frac{Q_1}{A_1} = \sum_{k=1}^n F_{i-k} (B_i - B_k) + \sum_{k=1}^n F_{i-s} (B_{i-s} - B_{k-s})$$

$$\frac{Q_1}{A_1} = \frac{\epsilon_i}{1-\epsilon_i} (\sigma T_i^4 - B_i) + \frac{\alpha_{i-s}}{1-\alpha_{i-s}} (\sigma T_i^4 - B_{i-s}) - \frac{\alpha_{i-s}}{1-\alpha_{i-s}} \sigma T_i^4$$

where F is a view factor and B is the radiosity. The subscript s indicates solar radiation as distinct from infrared radiation. Q_1/A_1 represents the heat flux at the ith surface element which has an area A_1 . ϵ and α are the emittance and absorptance, respectively. σ is the Stefan-Boltzmann constant = 0.173×10^{-8} BTU/hr-ft² °R⁴. For this analysis it was assumed that both solar absorptivity and infrared emittance were 0.93, or (1 - .07). It was also assumed that there is negligible heat transfer by conduction into the moon.

For convenience the problem was solved in two steps. The first step was the determination of the amount of direct and reflected solar energy absorbed by each node. Since the surface is not black, there is some inter-reflection between surfaces. To determine these effects a radiosity network is shown in Figure B2. The amount of solar energy impinging on each surface is $S_A \cos \phi$ where S is the solar irradiation constant, A is the area of the element and ϕ is the angle between the surface normal and the rays of the sun. The view of each surface to space is represented by a $1/FA$ resistor to a sink which is assigned the value of $0^\circ R$. In order to determine the net amount of direct and reflected solar energy absorbed by the various nodes all surface node temperatures were set equal to zero and the network then solved by digital computer. The resulting Q in any given surface resistor was the net solar energy absorbed by that surface.

The second step in the solution was the solution of the same network (it is the same only because a gray surface was assumed). The values of absorbed energy computed in the first step were input to each surface node in this calculation. The network was then solved for the temperature of the various sections by using LITV's computer programmed with the thermal analyzer

FIGURE B1
DESCRIPTION OF LUNAR HILL

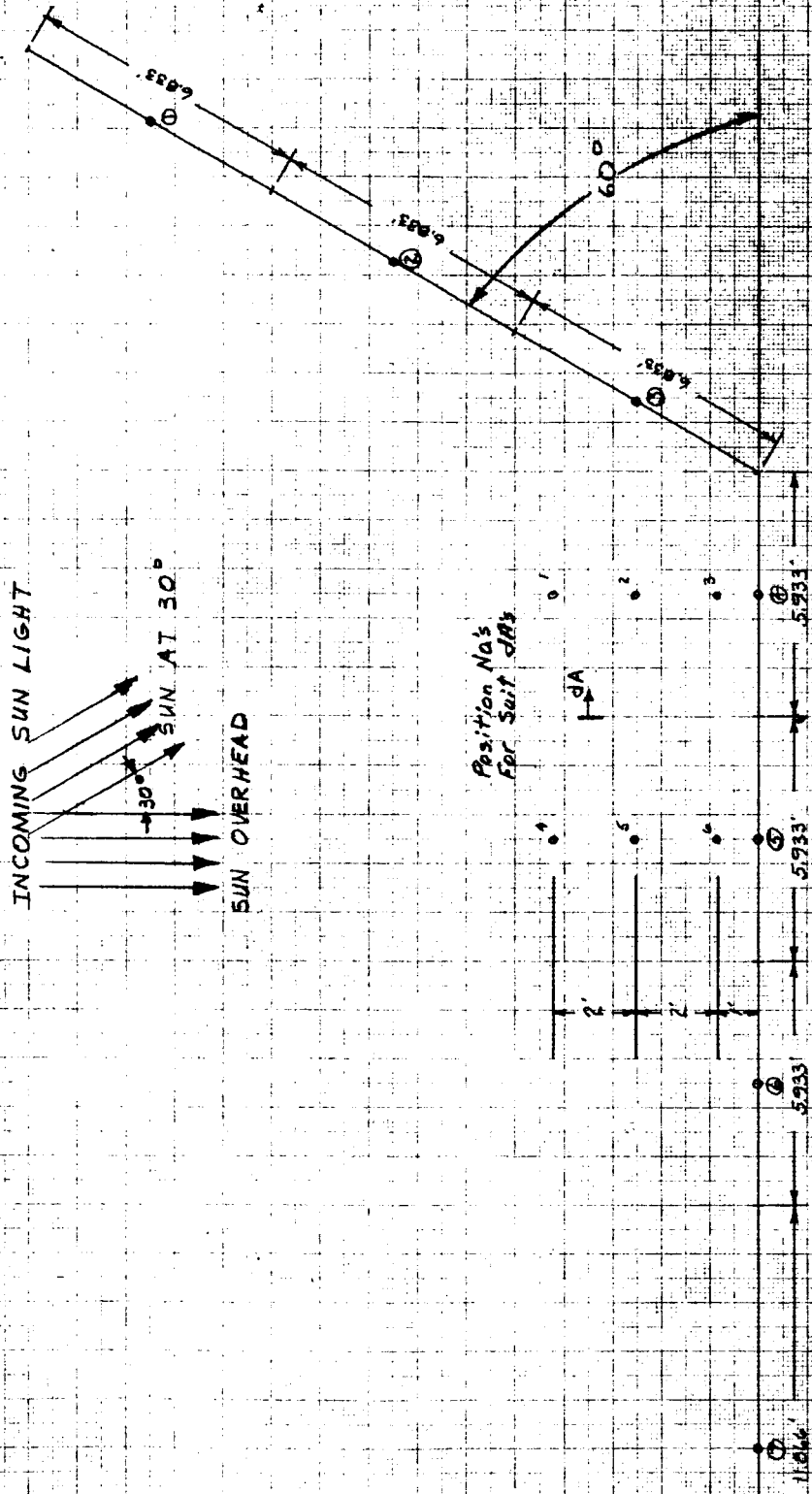
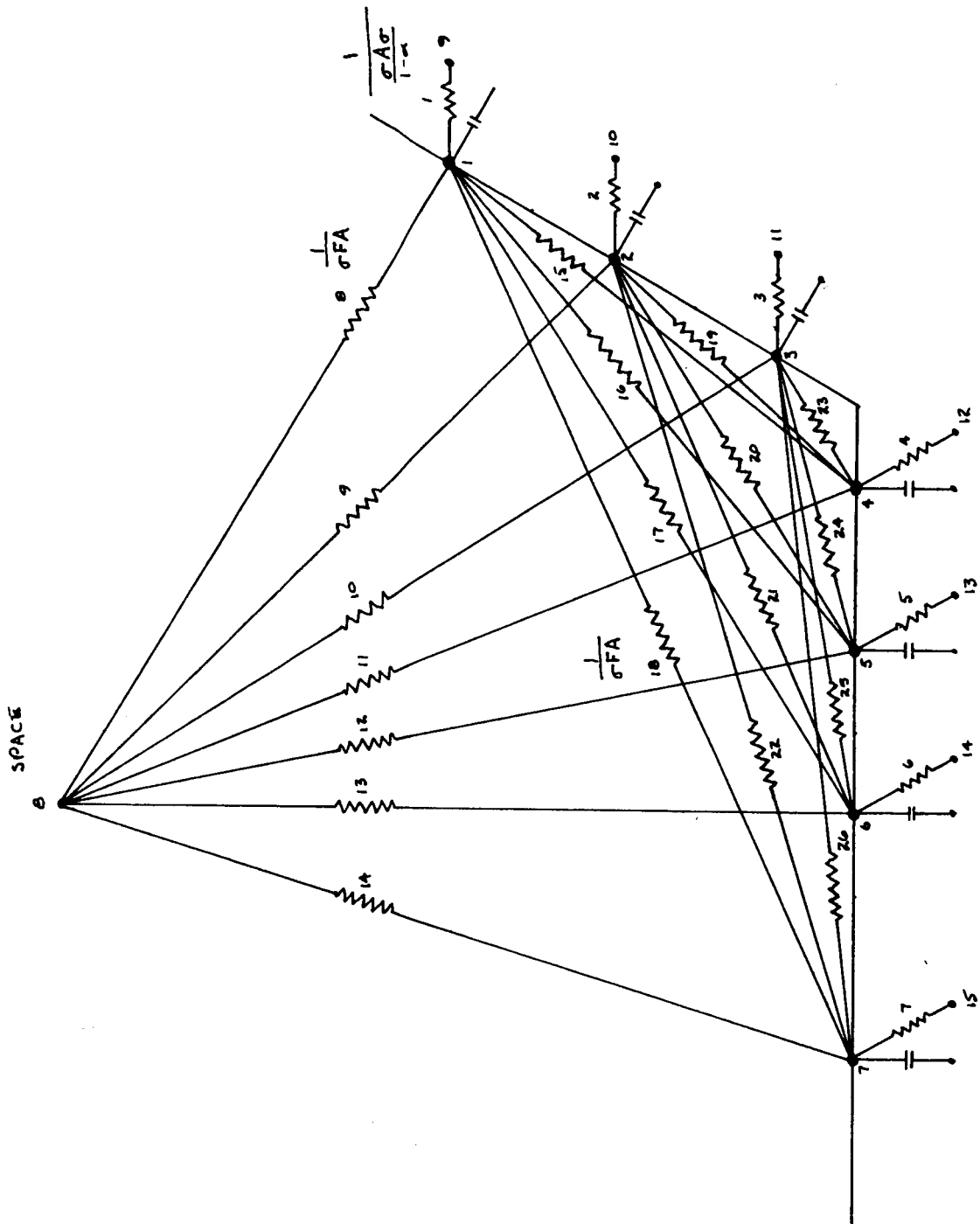


FIGURE B2

RADIOISOTOPY NETWORK



routine (Reference 15). Having determined the temperature profile of the hill the radiation emitted from each section was easily calculated.

Finally, the flux radiated from the hill to several elements of surface area located as indicated in Figure B1 was calculated. These infinitesimal elements of area are oriented so that their surface normals are perpendicular to the normal to the lunar plane and perpendicular to the line of intersection between the lunar plane and the lunar hill. The shape factors were determined graphically. The flux radiated onto these differential surface elements is given by

$$\frac{\Delta Q_i}{\Delta A_i} = \sigma \epsilon \sum_k F_{i-k} T_k^4$$

where the subscript i refers to the infinitesimal element area and the subscript k refers to the sections of the hill which see the element.

Table BI presents the results of the analysis of fluxes in the vicinity of the hill or crater wall on the moon. Table BI shows that the side of the suit facing the hill will be subjected to fluxes of over 350 BTU/hr ft.² This flux value can be contrasted with 206 BTU/hr ft.² for the same suit surfaces on a flat lunar plain. Both these numbers, however, are lunar surface radiation only and do not include solar. The sum totals of both lunar surface radiation and solar radiation are given in the summary at the end of this Appendix.

TABLE BI

FLUX AND TEMPERATURES NEAR ASSUMED LUNAR HILL

Flux radiated from lunar surface onto element of area dA which is vertical and facing the hill. (Reference Figure B1).

TOTAL FLUX

<u>Position of Element dA</u>	<u>Flux Sun Overhead (BTU/Ft²Hr)</u>	<u>Flux Sun 30° From Overhead (BTU/Ft² Hr)</u>
1	265	380
2	283	387
3	333	407
4	274	345
5	295	354
6	320	363

LUNAR SURFACE TEMPERATURE

<u>Position of Surface Node</u>	<u>Temp. Sun Overhead (°F)</u>	<u>Temp. Sun 30° From Overhead (°F)</u>
1	178	249
2	184	255
3	200	270
4	278	268
5	267	253
6	261	245
7	258	238

NOTE:

- (a) Lunar albedo = 0.07
- (b) Incident solar flux = 442 BTU/Hr-Ft²

Analysis and Calibration of Lunar Simulators

Lunar surface fluxes were simulated during Experiments IIb and IIc by a bank of infrared lamps around the test suit (Apollo EMU) plus a heated horizontal plate under the feet of the suit. The simulators are described in paragraph 3.2.2.3. The geometry and dimensions of both the infrared lamps and heated horizontal plate are given by Figures B3 through B6 of this Appendix.

The total heat flux on the test EMU from the lunar simulators was determined by calculating the flux from each of the two lunar simulators and adding them, including the reflection from the horizontal. The flux from the vertical simulator was evaluated by calculating the incident energy on a dA on the EMU from a dZ on one of the columns, integrating for the total for each of the columns, and summing for each of the sources seen. Since each column behaves as a line source radiator, the incident heat flux at a dA from a dZ of a lamp column is given by Reference 16 as:

$$(1) \quad dq_i = dq_i / dA = E_i / L \times dZ \cos \phi_i \times \frac{\cos \beta_i \cos \gamma_i dA}{2\pi (B_i^2 + Z_i^2)}$$

(A list of symbols is presented as Table B-11; also see Figure B3)

Now noting that:

$$(2) \quad \cos \phi_i = \frac{B_i}{B_i^2 + Z_i^2}; \quad \sin \phi_i = \frac{Z_i}{B_i^2 + Z_i^2}$$

$$(3) \quad \beta_i = \phi_i + \theta; \quad \cos \beta_i = \cos \phi_i \cos \theta - \sin \phi_i \sin \theta$$

Substitution of the above into equation (1) and integration yields the following:

$$(4) \quad q_i(v) = E_i F_i$$

where F_i is defined by

$$(5) \quad F_i = \frac{\cos \gamma_i}{4\pi L} \left\{ \cos \theta \left[\frac{Z_2}{B_i^2 + Z_i^2} - \frac{Z_1}{B_i^2 + Z_i^2} + \frac{1}{B_i} \left(\tan^{-1} \frac{Z_2}{B_i} - \tan^{-1} \frac{Z_1}{B_i} \right) \right] + \sin \theta \left[\frac{1}{B_i^2 + Z_2^2} - \frac{1}{B_i^2 + Z_1^2} \right] \right\}$$

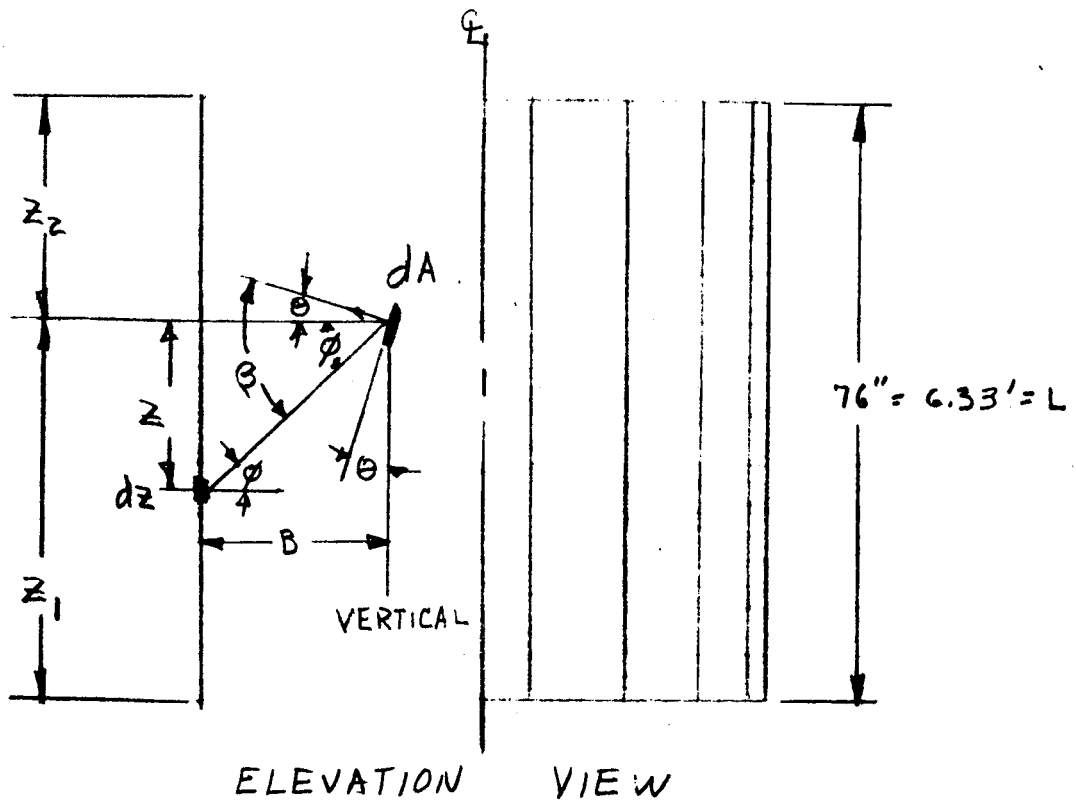
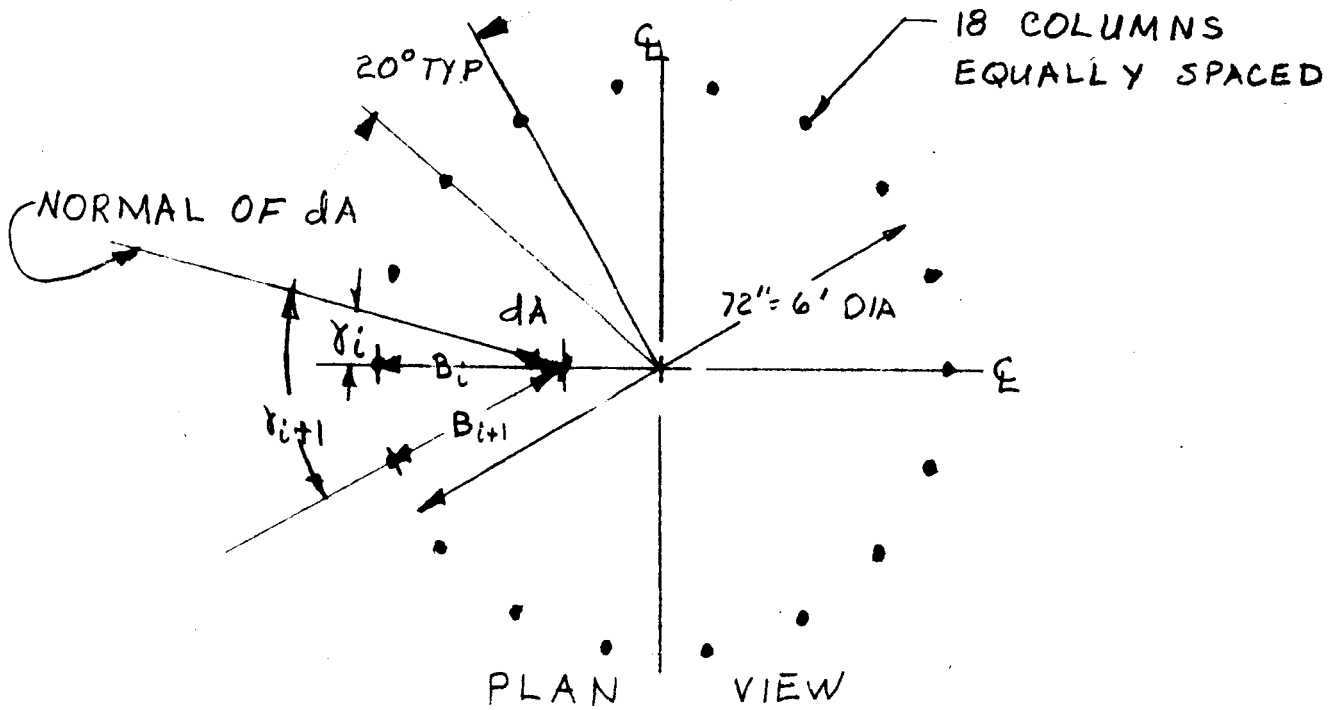
Since the power is equally distributed to all lamps, the power, E_i , to each column is 1/18th of the total, E_T . Substituting this fact and summing for each of the n visible lamp yields:

$$(6) \quad q_T(v) = \frac{E_T}{18} \sum_i^n F_i$$

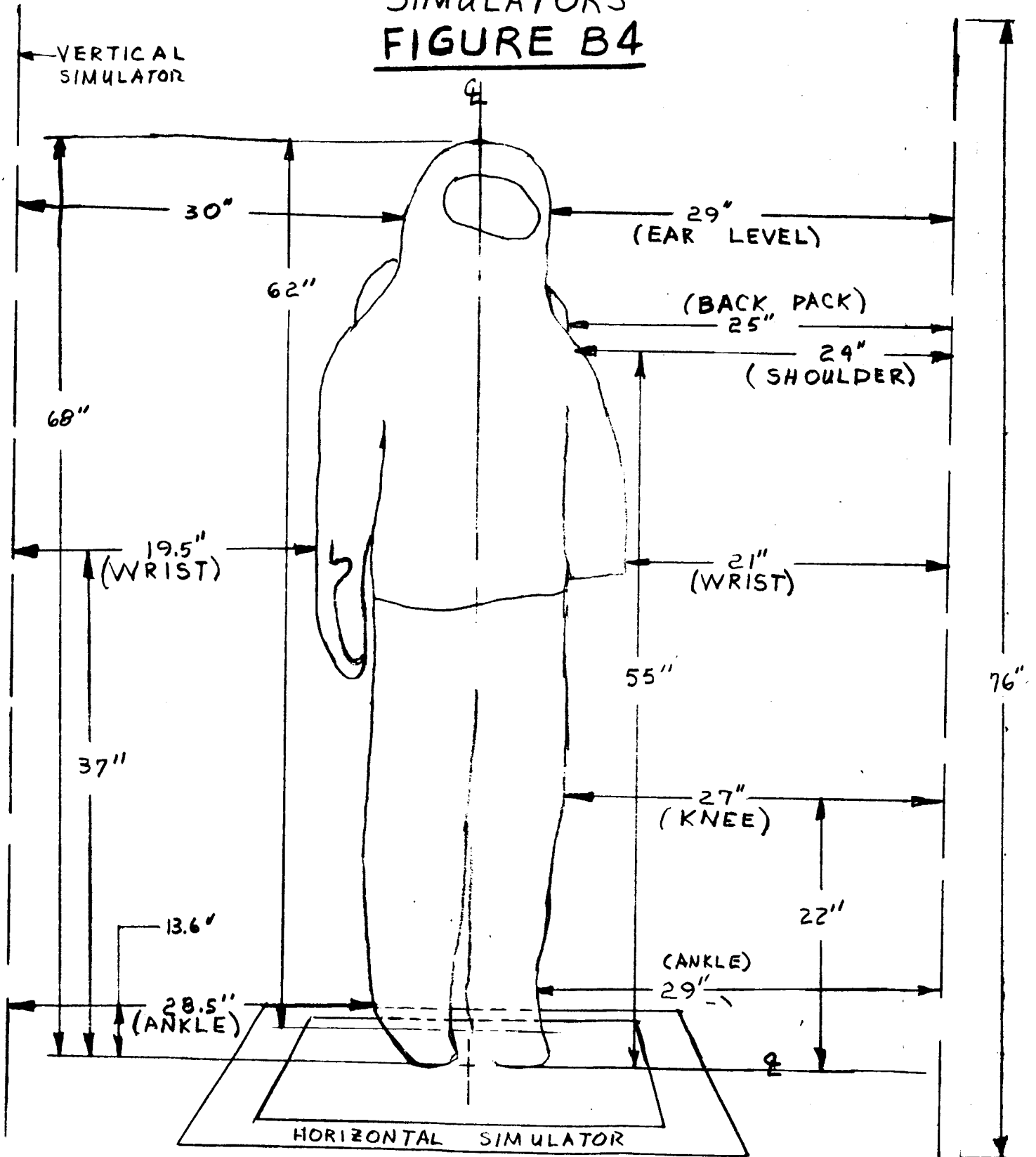
$\sum F_i$ was evaluated for a vertical dA at several different radii and elevations. The results are presented in Figures B7 and B8. The above results were compared with a calibration made with an Eppley calorimeter with a full hemisphere of view. The comparison is presented in Figures B8 and B9.

FIGURE B3
 ASSUMED GEOMETRY
 OF THE VERTICAL LUNAR SIMULATOR

NO SCALE

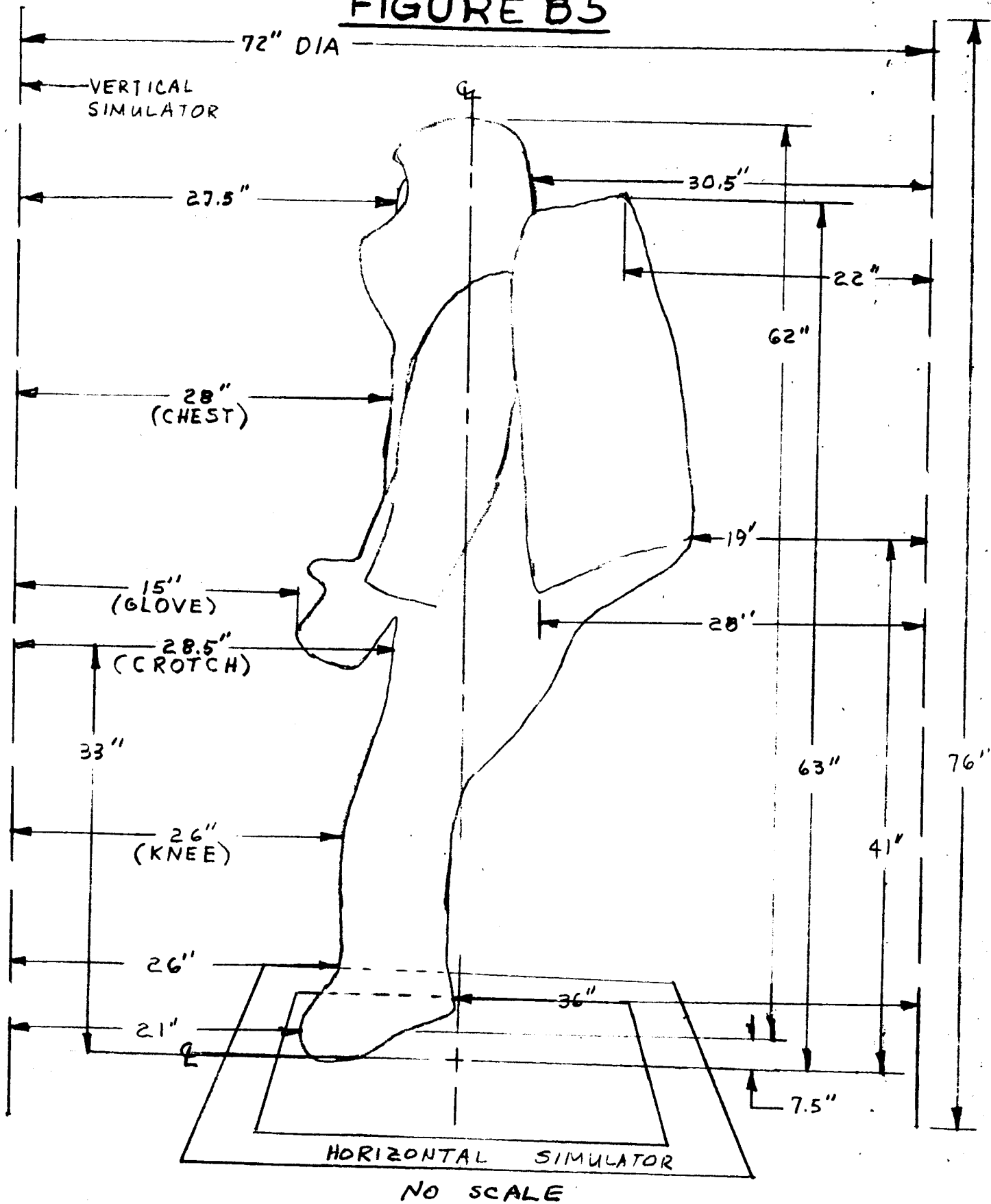


POSITION OF APOLLO EMU
RELATIVE TO THE LUNAR
SIMULATORS
FIGURE B4



NO SCALE

POSITION OF APOLLO EMU
 RELATIVE TO THE LUNAR
 SIMULATORS
FIGURE B5



LUNAR SURFACE SIMULATOR

PLAN VIEW
SCALE 1" = 10"

FIGURE B6

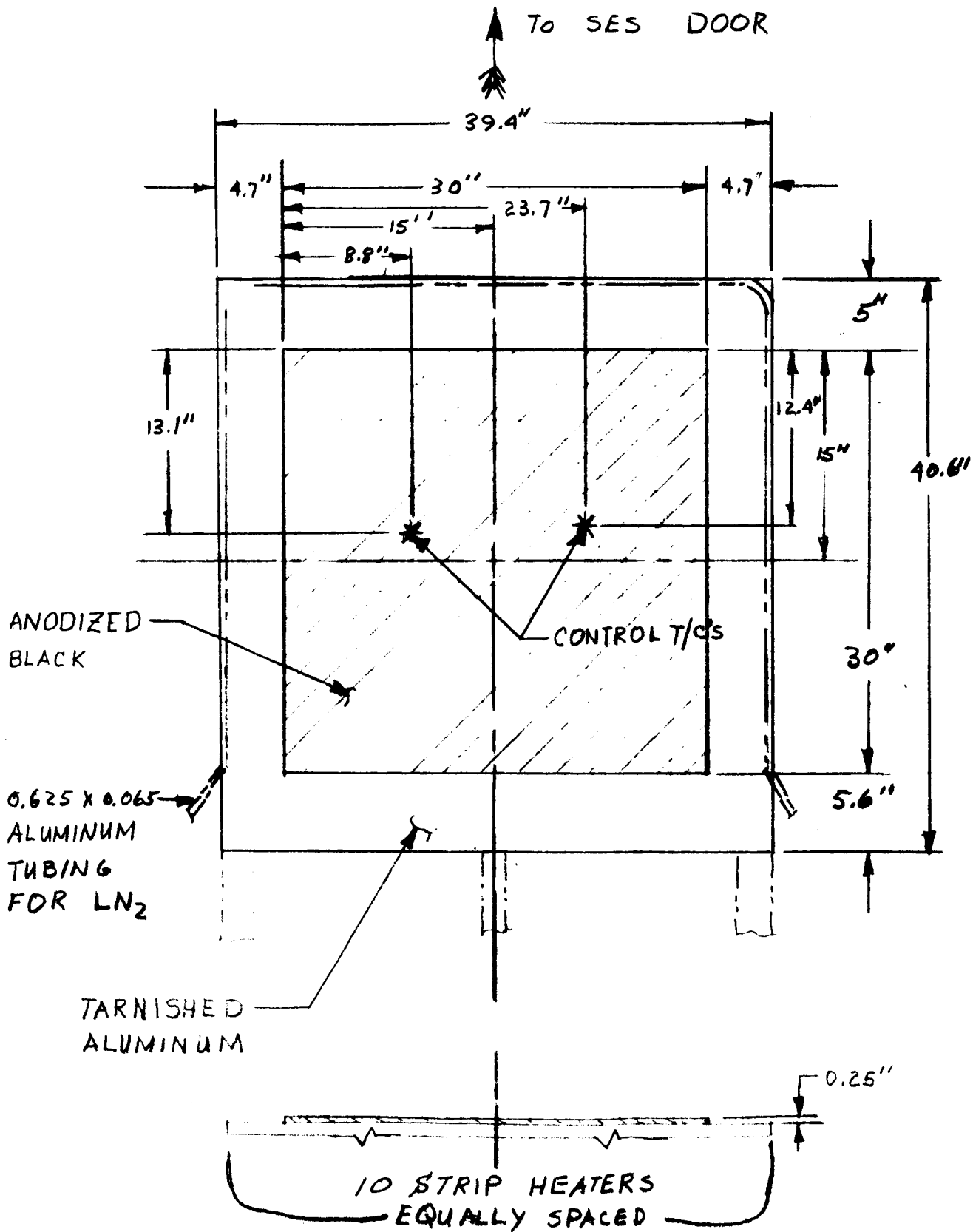


TABLE B II

LIST OF SYMBOLS

<u>SYMBOLS</u>	<u>DESCRIPTION</u>
A	Area - Ft ²
B _i	Radial distance from the i th column of lamps to the dA, Ft.
dA	Infinitesimal element of area on the Apollo EMU, Ft ² .
dQ ₁	Radiant energy incident on a point on the EMU from a point, dZ, on the column of lamps, BTU/Hr.
dq ₁	Radiant heat flux incident on a point on the EMU from a point dA, on the i th column of lamps, BTU/Hr. Ft ²
dZ	Infinitesimal length of a column, Ft.
E _i	Power radiated by the i th column of lamps, KW
E _T	Total power radiated by the vertical simulator, KW
F _i	Form - factor from the lamp to a point on the EMU dA, Ft ²
F _{x-dA}	View factor from area x to a point on the EMU, dA, (dimensionless)
K _θ	Fraction of the heat flux that incident on a vertical dA which is incident on dA at an angle θ.
L	Height of the vertical simulator, Ft.
n	Total number of visible lamps from a dA on the Apollo EMU
q	Heat flux, BTU/Hr Ft ²
q ₁ (v)	The heat flux incident on a dA from the lamp, BTU/Hr Ft ²
q _T (H)	Total heat flux incident on a dP on the Apollo EMU from the horizontal simulator, BTU/Hr Ft ²
q _T (LS)	Total heat flux incident on a dA on the Apollo EMU from the lunar simulation, BTU/Hr Ft ²
q _T (R)	Total heat flux which is reflected off the horizontal simulator onto a dA on the Apollo EMU, BTU/Hr Ft ²
q _T (V)	Total heat flux on a dA on the Apollo EMU from the vertical simulator, BTU/Hr Ft ²

TABLE B II (Continued)
DESCRIPTION

SYMBOL

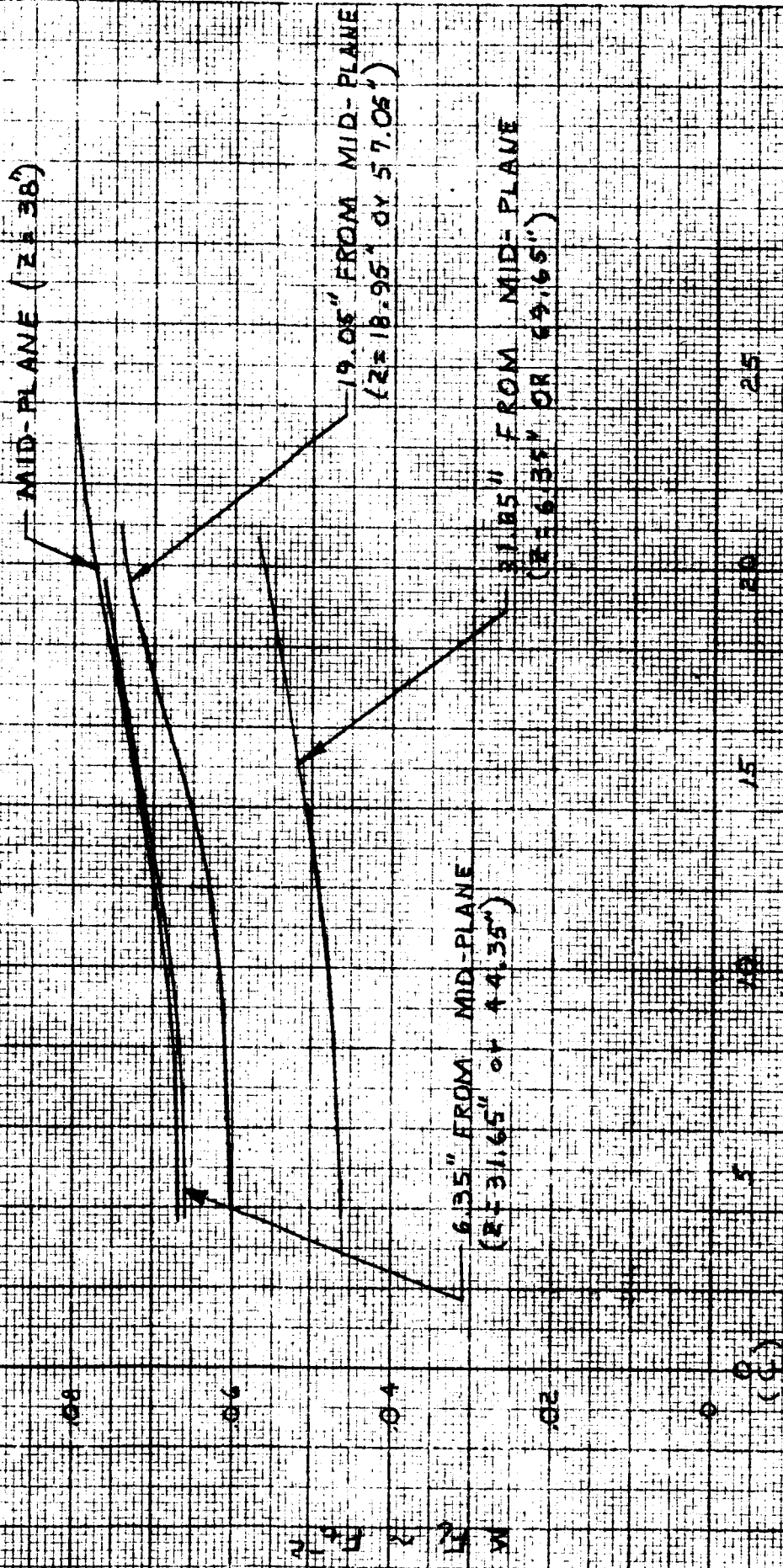
T	Temperature, °R
Z_1	Vertical distance from a dA on the EMU to a point on the column of lamps, Ft.
Z_1	Vertical distance from a dA on the EMU to the bottom of the vertical simulator, Ft.
Z_2	Vertical distance from a dA on the EMU to the top of the vertical simulator, Ft.
α_x	The grey body absorptance of surface X
β_i	The angle of a line connecting dA and dZ with the normal of dA in an elevation view.
γ_i	The angle of a line connected dA and dA with the normal of dA in a plane view.
ϵ	The grey body emittance of surface X.
θ	The angle of a dA with the vertical.
σ	The Stefan-Boltzmann constant, 0.173×10^{-8} BTU/Hr Ft ² °R ⁴
ϕ	The angle of a line connecting dA and dZ with the normal of dZ in an elevation view.

SUBSCRIPTS

i	One of the 18 columns of lamps.
u	The total horizontal simulator.
v	The outer unanodized aluminum portion of the horizontal simulator.
w	The inner black anodized aluminum portion of the horizontal simulator.

FIGURE B.7
HEAT FLUX FROM THE
VERTICAL LUNAR SIMULATOR

$$q_T (W) = \frac{E_1 - E_2}{18}$$



6.35" FROM MID-PLANE
(R = 31.65" or 44.35")

11.85" FROM MID-PLANE
(R = 6.35" or 49.65")

19.05" FROM MID-PLANE
(R = 18.95" or 57.05")

MID-PLANE (Z = 38")

0.10
0.08
0.06
0.04
0.02
0

q_T (W)

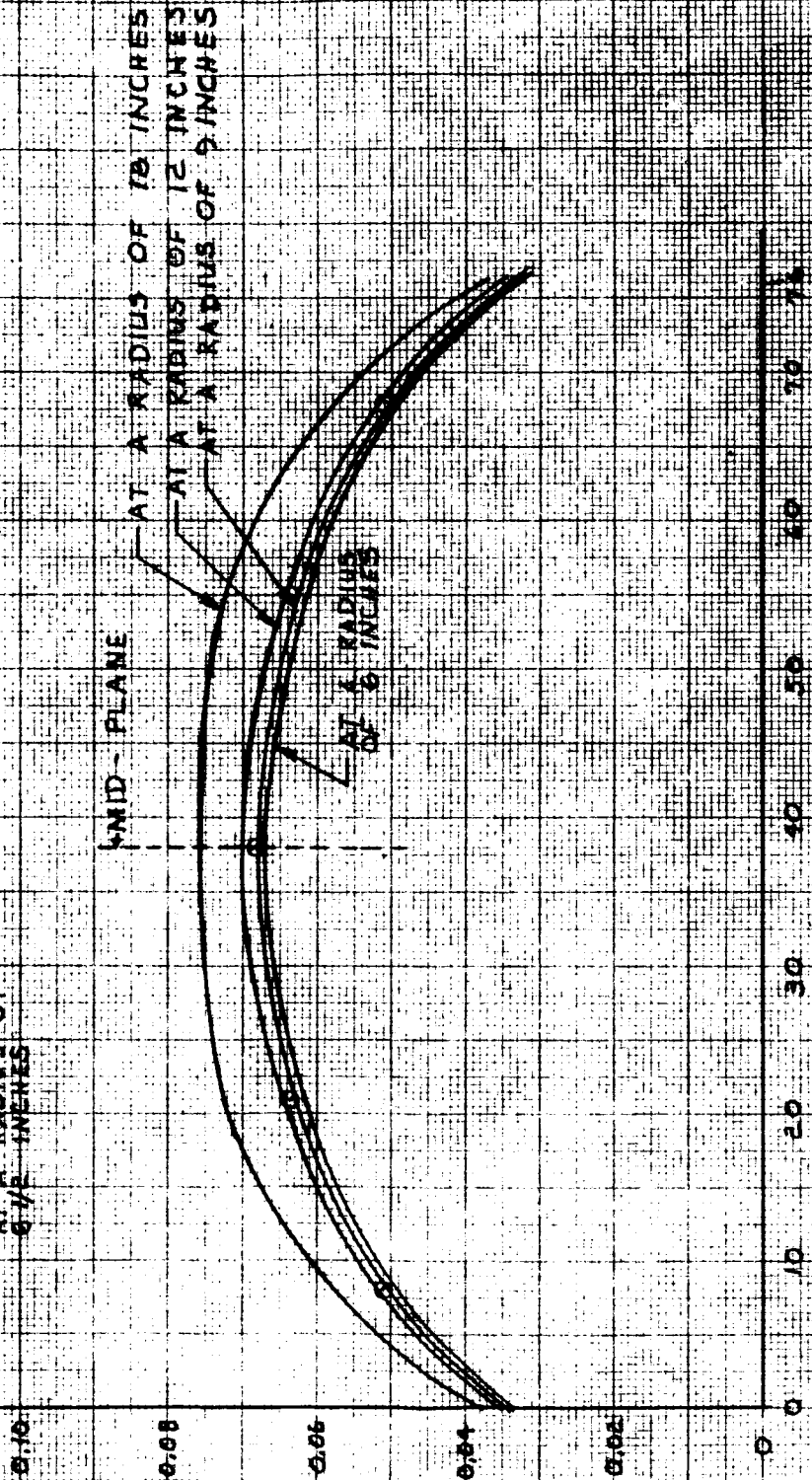
0 5 10 15 20 25

RADIAL DISTANCE FROM
VERTICAL OF THE VERTICAL
LUNAR SIMULATOR - INCHES

FIGURE 88
HEAT FLUX FROM THE
VERTICAL LUNAR SIMULATOR

$$q_T(V) = E_s \cdot \sigma \cdot F_s$$

O- CALIBRATION DATA
 AT A RADIUS OF
 6 1/2 INCHES



VERTICAL DISTANCE FROM THE
 HORIZONTAL LUNAR SIMULATOR INCHES

Since Figures B7 and B8 demonstrate that the heat flux on a vertical dA does not vary greatly for radii less than 15 inches and elevations within 15 inches of the mid-plane, the heat flux on a non-vertical dA may be calculated for this region by assuming that it is a constant, depending on the angle (θ) of the dA with the vertical, times the value of the heat flux for a vertical dA, i.e.:

$$(7) \quad q_T(v)|_{\theta} = K_{\theta} q_T(v)/dA_{\text{vertical}}$$

K_{θ} was evaluated at the vertical mid-plane and a radius of 9 inches; the results are presented in Figure B10.

The heat flux from the horizontal simulator was calculated by computing the flux at a dA on the EMU from a flat plate consisting of two regions with different emittances. The two regions are an outer region of bare aluminum (surface v) and an inner region of black anodized aluminum (surface w; surface u = surface v + surface w). From Reference 16 the heat flux at a dA from the horizontal simulator is given by:

$$(8) \quad q_T = \epsilon_v \sigma T_v^4 F_{v-dA} + \epsilon_w \sigma T_w^4 F_{w-dA}$$

But, since the horizontal simulator is assumed to be isothermal and

$$(9) \quad F_{u-dA} = F_{v-dA} + F_{w-dA}$$

then (8) may be written as

$$(10) \quad q_T(H) = \sigma T_u^4 [(\epsilon_w - \epsilon_v) F_{w-dA} + \epsilon_v F_{u-dA}]$$

The view factors F_{v-dA} and F_{u-dA} to several points on the EMU were evaluated by using LTV's computer programmed with the CONFAC I routine (Reference 17). The total flux on the Apollo EMU from the horizontal simulator was then calculated for a 250°F surface temperature and the results are presented on Figures 26, 27 and 28, paragraph 3.6.2.

The heat flux which is reflected from the horizontal simulator was calculated by first evaluating the average flux incident on the horizontal simulator. The results for an indicated power of 14.3 KW to the vertical simulator were:

$$(11a) \quad \bar{q}_v = 167 \text{ BTU/Hr-Ft}^2$$

$$(11b) \quad \bar{q}_w = 103 \text{ BTU/Hr-Ft}^2$$

The amount of this flux which is reflected to a dA on the EMU is given by

$$(12) \quad q_T(R) = (\rho_v \bar{q}_v F_{v-dA}) + (\rho_w \bar{q}_w F_{w-dA})$$

Now substituting the results of equations (9) and (11 a and b) into (12) yields:

$$(13) \quad q_T(R) = 128(F_{u-dA} - 0.879F_{w-dA}) \text{ BTU/Hr Ft}^2 \text{ where } F_{u-dA} \text{ and } F_{w-dA} \text{ are the view factors previously calculated for (10).}$$

FIGURE B9
 COMPARISON OF CALCULATED
 AND CALIBRATED HEAT FLUX FROM THE
 VERTICAL LUNAR SIMULATOR

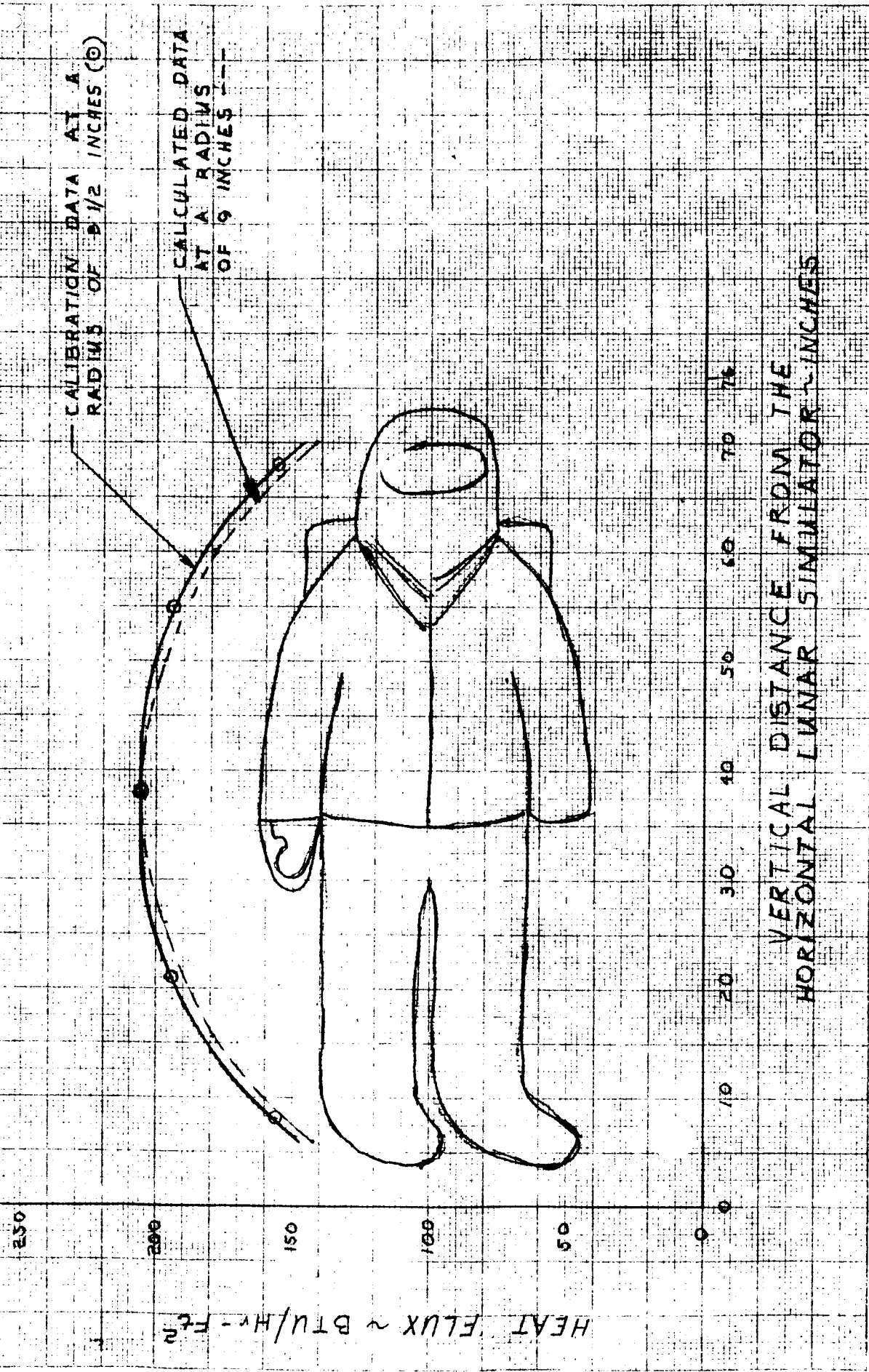
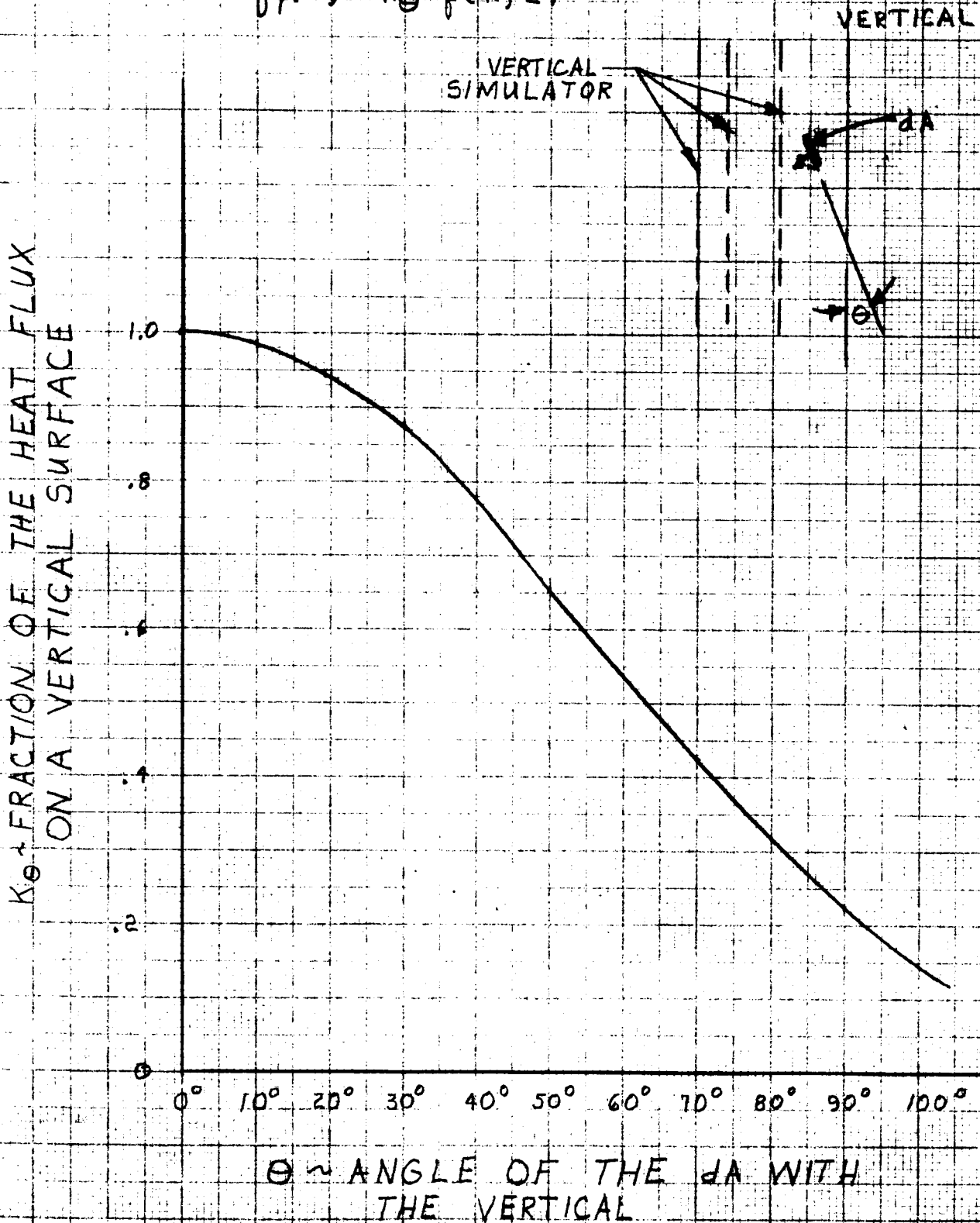


FIGURE B10
 VARIATION OF HEAT FLUX
 FROM THE VERTICAL SIMULATOR
 WITH THE ANGLE OF THE SURFACE
 $q_T(V) = K_{\theta} q(R, Z)$



The total heat flux from all lunar simulation is the sum of vertical, horizontal, and reflected fluxes, i.e.:

$$(14) \quad q_{(LS)} = q_{T(v)} + q_{T(H)} + q_{T(R)}$$

The above equation was evaluated for the indicated power of 14.3 KW to the vertical simulator and a surface temperature of 250°F on the horizontal simulator. The results are presented in Figures 26, 27 and 28, paragraph 3.6.2.

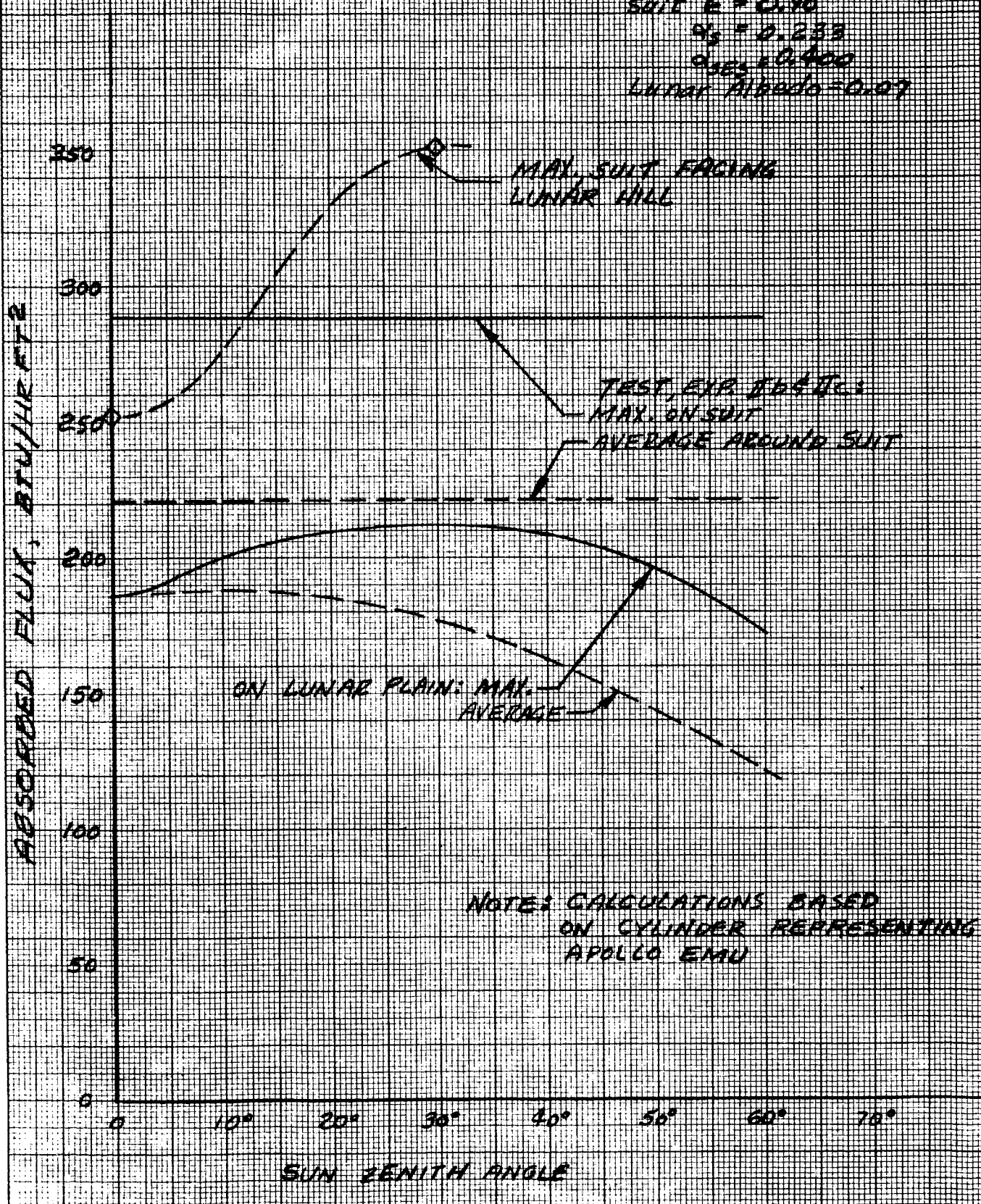
SUMMARY

Simulated lunar surface fluxes provided during Experiments IIb and IIc are compared with true lunar surface fluxes for the nominal case (suit on a lunar plain) on Figures 26, 27 and 28. These figures show good agreement between test flux values and simulation objectives.

Figure 11 presents a comparison of the total test environment (solar plus lunar surface radiation) and the two lunar surface environments discussed in this Appendix (lunar plain and near a crater wall). It is concluded that the total test environment was more severe than the nominal lunar environment and probably less severe than a true lunar worst case when considering the effects of lunar surface irregularities.

FIGURE B11
TEST AND TRUE TOTAL THERMAL
ENVIRONMENTS
(TOTAL ENERGY ABSORBED BY SUIT)

SUIT E = 0.90
 $\rho_s = 0.233$
 $\rho_{s2} = 0.400$
 Lunar Albedo = 0.07



APPENDIX C

INSTRUMENTATION MEASUREMENTS ACCURACIES

APPENDIX C

INSTRUMENTATION MEASUREMENT ACCURACIES

I. THERMOCOUPLE TEMPERATURE MEASUREMENTS

In this test, the most significant sources of possible temperature measurement errors were:

- (a) Copper-Constantan wire.
- (b) Reference junction.
- (c) Recording system.
- (d) Millivolt-temperature conversion.
- (e) Thermocouple attachment methods.

The contribution of each of these errors and the total measurement system accuracy is discussed below:

Copper-Constantan Wire: The accuracy of the copper-constantan thermocouple wire, used in this test, was specified by the manufacturer to be $\pm 1 \frac{1}{2}^{\circ}\text{F}$ in the range from -75°F to $+200^{\circ}\text{F}$ and $\pm 2\%$ in the range from -150°F to -75°F . The thermoelectric power of copper-constantan wire is 16 microvolts/ $^{\circ}\text{F}$ at -150°F , 18 microvolts/ $^{\circ}\text{F}$ at -75°F , and 26 microvolts/ $^{\circ}\text{F}$ at $+200^{\circ}\text{F}$. Thus it can be seen that the magnitude of the voltage errors corresponding to the temperature errors at -150°F , -75°F , and $+200^{\circ}\text{F}$ are ± 48 microvolts, ± 27 microvolts, and ± 39 microvolts, respectively. These voltage errors constitute the contribution of the test thermocouple wire to the overall error in temperature measurement over the ranges specified.

Reference Junction Errors: The manufacturer of the 150°F reference junction (Pace model BRJR13A-48TP) utilizes calibrated premium thermocouple wire accurate to $\pm 0.2^{\circ}\text{F}$ and further specifies that the temperature of the junction is maintained at $150^{\circ}\text{F} \pm 0.25^{\circ}\text{F}$.

The thermoelectric power of copper-constantan wire is 25 microvolts/ $^{\circ}\text{F}$ at $+150^{\circ}\text{F}$.

Thus, the total RMS voltage error of the reference junction can be calculated to be:

$$\pm(5^2 + 6.25^2)^{1/2} = \pm 8 \text{ microvolts}$$

This voltage error is constant over the entire range of temperatures measured and constitutes the contribution of the reference junction to the overall error in temperature measurement.

Recorder Errors: The manufacturer of the preamplifier (cubic model A-85) used in the recording system specifies the following:

- Gain accuracy: $\pm 0.01\%$ of setting.
- Gain stability: $\pm 0.01\%$ of setting.
- Linearity (d-c): $\pm 0.01\%$ of setting.
- Noise level: ± 2 microvolts referred to input.
- Drift: ± 2 microvolts per 500 hours of operation at constant ambient temperature, referred to input.

The manufacturer of the digital voltmeter (cubic model VR-71P) states that the accuracy of the voltmeter is $\pm 0.01\%$ of reading ± 1 digit.

These figures constitute the contribution of the recording system to the overall error in the temperature measurement.

Millivolt-Temperature Conversion Errors: The output of the recording system is a record of the voltage analogue of temperature. This voltage analogue must then be converted to temperature by reference to standard NBS voltage-temperature tables. This phase of the data reduction for this test was accomplished by an IBM 7094 computer at the NASA Manned Spacecraft Center at Houston, Texas. The accuracy capabilities of this computer are such that the voltage - temperature conversion was accomplished with no loss of accuracy, as far as a print-out record of each temperature for some voltage reading is concerned.

However, there was some additional loss in accuracy in the temperature vs. time plots produced by the automatic plotting system utilizing the computer data. This additional loss in accuracy was due to the plotting system accuracy of $\pm 0.02^\circ\text{F}$ and the scale resolution of each plot. In this plotting system, the scale resolution of each plot is a function of the maximum and minimum temperatures appearing on the plot. Thus, in general, each plot will have a different scale resolution and it is impossible to state an overall accuracy figure for all plots.

Thermocouple Attachment Methods: See Appendix D.

Total Measurement System Accuracy: In the previous discussions of each source of measurement error, it was shown that the magnitude of some errors was constant while the magnitudes of others varied over the range of temperature measurement, for this reason, the total measurement system accuracy at three different temperatures will be calculated. The three temperatures are -150°F , -75°F , and $+200^\circ\text{F}$. The significance of these particular temperatures is that the error of the test thermocouple wire is specified at these points, and, as will be shown later, the thermocouple wire error is the most significant error in the measurement system.

Since it is highly improbable that all sources of measurement error would be maximum and of the same effective polarity at the time of any particular measurement, an RMS summing procedure will be used.

The total measurement system accuracy at -150°F will be calculated first.

At -150°F , the error due to the thermocouple wire is $\pm 2\%$ of -150°F , or $\pm 3^\circ\text{F}$. The thermoelectric power of copper-constantan wire at -150°F is 16 microvolts/ $^\circ\text{F}$. Thus the voltage error of the thermocouple wire is ± 48 microvolts.

The error due to reference junction is ± 8 microvolts.

The error due to the noise level of the preamplifier is ± 2 microvolts.

The error due to the drift in the preamplifier is ± 2 microvolts.

The errors due to the gain accuracy, gain stability,

and gain linearity of the preamplifier are each specified to be $\pm 0.01\%$ of the gain setting. Thus, these three errors are a function of the gain setting and also the input voltage. The gain setting of the preamplifier was 1000. The input voltage at -150°F , as specified by standard NBS Tables, is -6.091 millivolts. Thus, the output error voltage of each of the three errors is:

$$\pm (.01\%)(1000)(-6.091) = \pm 0.6091 \text{ millivolts}$$

When this error voltage is adjusted for the gain factor of 1000, the resulting equivalent error is ± 0.0006 millivolts, or ± 0.6 microvolts, for each error. The RMS sum of these three errors is then:

$$\pm (0.6^2 + 0.6^2 + 0.6^2)^{1/2} = \pm 1.4 \text{ microvolts}$$

The error due to the digital voltmeter is specified to be $\pm 0.01\%$ of reading ± 1 digit. The digital voltmeter was operated on the full scale range of 99.99 volts. Thus, the reading on the voltmeter should be -6.09 volts. This follows from the facts that the thermocouple output voltage at -150°F is -6.091 millivolts, and that this voltage was sent through an amplifier with a gain of 1000. Thus, the percentage error of $\pm 0.01\%$ of reading results in an error of ± 0.0006 volts. When this error is adjusted for the gain factor of 1000, the resulting equivalent error is ± 0.6 microvolts.

The ± 1 digit error in the digital voltmeter results in an indicated error of ± 0.01 volts. When this error is adjusted for the gain factor of 1000, the resulting equivalent error is 10 microvolts.

The total measurement system voltage accuracy is then calculated by taking the RMS sum of each of the errors. This results in a voltage error of:

$$\pm (48^2 + 8^2 + 2^2 + 2^2 + 1.4^2 + 0.6^2 + 10^2)^{1/2} = \pm 49.8 \text{ microvolts}$$

The equivalent error in $^{\circ}\text{F}$ is calculated by:

$$\pm 49.8 \text{ microvolts} / 16 \text{ microvolts}/^{\circ}\text{F} = \pm 3.11^{\circ}\text{F} \text{ at } -150^{\circ}\text{F}.$$

Observation of the calculation of the accuracy figure for -150°F reveals that the only significant errors involved are the errors due to the thermocouple wire, the reference junction, and the ± 1 digit error in the digital voltmeter. This is due to the relative magnitudes of the errors and the nature of the RMS summing procedure. For this reason, only the three significant errors previously mentioned will be used to calculate the measurement system accuracies at -75°F and $+200^{\circ}\text{F}$.

At -75°F , the thermocouple wire has a specified accuracy of $\pm 1.1/2^{\circ}\text{F}$. The thermoelectric power at -75°F is 18 microvolts/ $^{\circ}\text{F}$. Thus the voltage error of the thermocouple wire at this temperature is ± 27 microvolts.

The voltage error of the reference junction is ± 8 microvolts.

The voltage error of the digital voltmeter is ± 10 microvolts.

The RMS sum of these errors is:

$$\pm (27^2 + 8^2 + 10^2)^{1/2} = \pm 29.9 \text{ microvolts}$$

The equivalent error in $^{\circ}\text{F}$ is then:

$$\pm 29.9 \text{ microvolts} / 18 \text{ microvolts}/^{\circ}\text{F} = \pm 1.66^{\circ}\text{F} \text{ at } -75^{\circ}\text{F}.$$

At $\pm 200^{\circ}\text{F}$, the thermocouple wire has a specified accuracy of $\pm 1-1/2^{\circ}\text{F}$. The thermoelectric power at $+200^{\circ}\text{F}$ is 26 microvolts/ $^{\circ}\text{F}$. Thus the voltage error of the thermocouple wire at this temperature is ± 39 microvolts.

The voltage error of the reference junction is ± 3 microvolts.

The voltage error of the digital voltmeter is ± 10 microvolts.

The RMS sum of these errors is:

$$\pm (39^2 + 3^2 + 10^2)^{1/2} = \pm 41.1 \text{ microvolts}$$

The equivalent error in $^{\circ}\text{F}$ is then:

$$\pm 41.1 \text{ microvolts} / 26 \text{ microvolts}/^{\circ}\text{F} = \pm 1.58^{\circ}\text{F} \text{ at } + 200^{\circ}\text{F}.$$

In summary then, it can be stated that the total temperature measurement system RMS accuracies over the specified ranges are:

$$\pm 3.11^{\circ}\text{F} \text{ from } -150^{\circ}\text{F} \text{ to } -75^{\circ}\text{F}$$

$$\pm 1.66^{\circ}\text{F} \text{ from } -75^{\circ}\text{F} \text{ to } +200^{\circ}\text{F}$$

II.

SUIT PRESSURE MEASUREMENT ACCURACIES

The suit inlet gas pressure, helmet pressure, and the pressure drop across the suit (inlet to outlet pressure) were measured by a system of pressure sensors described in paragraph 3.4.1. The following error analysis of these measurements is based on data from the manufacturer of the sensors and recorders.

The suit helmet pressure, suit inlet pressure, and suit pressure drop accuracies (in percent of full scale) are the same since the sensor accuracies and method of readout are identical. A root-mean-square sum of the performance characteristics of the sensors is given and then combined with the recorder accuracy. The manufacturer specified the following:

Maximum combined non-linearity and hysteresis	.75% FS (Full Scale)
Repeatability	0.10% FS
Temperature Drift	2% FS/ 100°F

Temperature effect on sensitivity 1% FS/100°F

When the operating temperature is within 20°F of the calibration temperature (approximately 75°F), the RMS sum of the percentage errors of the sensors is:

$$\pm \left((0.75\%)^2 + (0.1\%)^2 + (0.4\%)^2 + (0.2\%)^2 \right)^{1/2} = \pm 0.88\% \text{ of full scale}$$

The strip chart recorders provide a scale reading resolution of 0.5% of full scale and a scale linearity of 0.25% of full scale.

The RMS sum of the sensor and strip chart recorder errors is:

$$\pm \left((0.88\%)^2 + (0.5\%)^2 + (0.25\%)^2 \right)^{1/2} = \pm 1.04\% \text{ of full scale}$$

Full scale reading of the suit inlet and helmet pressure measurements is 10 psia. Thus, the absolute accuracy of those measurements is ± 0.104 psia.

Full scale reading of the suit pressure drop measurement is ± 0.25 psid. Thus, the absolute accuracy of this measurement is ± 0.0026 psid.

III.

SUIT GAS FLOW ACCURACY

The Cox model 12 volume flow meter has a manufacturer's stated accuracy of $\pm 1\%$ of indicated flow of air at standard conditions of 70°F and 14.7 psia. Correction factors must be applied to the flow meter scale readings since the flow meter was not operated under standard conditions. The corrections necessary to compute the ACFM from the indicated flow on the gauge are:

$$\text{ACFM} = \frac{(\text{Gauge Reading}) \sqrt{P_0/P} \sqrt{T/T_0}}{\sqrt{\rho/\rho_c}}$$

Where: $P_0 = 14.7$ psia

P = operating pressure

ρ_c = specific gravity of air = 1

ρ = specific gravity of oxygen = 1.10

$T_0 = 530^\circ \text{ R}$

T = temperature of flowing gas in $^\circ \text{ R}$

The major errors in the calculation of ACFM are due to the errors contributed by the flow meter and the mercury

manometer used to measure pressure at the flow meter. The ratio of the specific gravities of air and oxygen should not contribute any significant error since the value of these two quantities is known to a much higher accuracy than the other measurements. Due to the magnitude of the absolute temperatures involved and the high absolute accuracy of the Brown Recorder, the relative error contributed by the temperature measurement is considered to be negligible.

Thus, it can be seen that the significant contributions to the error in the computed value of ACFM are made by the flow meter and the mercury manometer.

The flowmeter has a relative error of $\pm 1\%$ of indicated flow. The resolution of the mercury manometer scale is ± 0.5 inches which is equivalent to ± 0.0245 psi. Thus, at the nominal suit pressure of 3.7 psia, the relative error of the mercury manometer is $\pm 0.662\%$.

These errors produce a total RMS error in the calculation of ACFM of:

$$\pm \left[(1\%)^2 + (0.662\%/2)^2 \right]^{1/2} = \pm 1.05\% \text{ of indicated}$$

flow at 3.7 psia.

Flow measurements made at higher suit pressures, such as during suit relief valve checks, would result in a smaller relative error since the relative error of the Mercury manometer reading would decrease with an increase in pressure.

IV.

SUIT LEAKAGE ACCURACY

Suit leakage was monitored by means of a Hastings Raydist IF-1000, 0-1000 SCCM, mass flow meter. The manufacturer states $\pm 2\%$ linearity over a pressure range from .01 psia to 250 psia and for gas temperatures up to 200^oF. Measurement repeatability is stated at $\pm 1\%$. The meter scale resolution is $\pm 1\%$.

The RMS sum of these errors is then:

$$\pm \left[(2\%)^2 + (1\%)^2 + (1\%)^2 \right]^{1/2} = \pm 2.45\%$$

of full scale indication which is 1000 SCCM. Thus, the absolute error in the suit leakage measurement is ± 24.5 SCCM.

V.

SOUND LEVEL ACCURACY

No statement of the sound level measurement accuracy can be made since there was no precise calibration made on the recording system. No quantitative results were required.

APPENDIX D
ERROR ANALYSIS OF THERMOCOUPLE
ATTACHMENT TECHNIQUES



APPENDIX D

ERROR ANALYSIS OF THERMOCOUPLE ATTACHMENT TECHNIQUES

OBJECTIVE

The objective of the thermocouple attachment test was to determine the effects of the solar lamps on the temperatures indicated by thermocouples used to measure the exterior surface temperature of the Apollo thermal garment.

PROCEDURE

During Experiments II-b and II-c a thermocouple test panel was mounted in the SES test chamber as shown by Figures D1 and D2. Eighteen 40-gage copper-constantan test thermocouples were mounted on the test panel by various techniques. The temperatures indicated by the test thermocouples were recorded on the same digital voltmeter recording system used to record the suit temperatures. These temperatures were then compared with respect to mounting method and test conditions.

TEST PANEL DESCRIPTION

The test panel was constructed as shown in Figure D3. The various layers were cemented together with Dow Corning No. 271 silicone adhesive. The left half of the HT-1 nylon was cemented to the aluminum plate as shown in Figure D4. Figure D4 also shows the location of the test thermocouples on the panel. Table D I is a description of the various methods used to mount the test thermocouples.

DATA PRESENTATION

Temperature data at three test conditions are presented in two forms. Table D II is a tabular presentation while Figure D5 is a presentation of the same data shown as a function of thermocouple location on the test panel.

The three test conditions are at or near the end of relatively long test points which would tend to provide steady state temperature conditions. The test conditions are as follows:

- (1) Cold Soak: At end of Test Point No. 6, Experiment II-c. Test Point duration, 4 hours and 23 minutes.
- (2) Lunar Simulator On: At end of Test Point No. 1, Experiment II-b. Test Point duration, 2 hours and 32 minutes.
- (3) Lunar Simulator and Solar Lamps On: Ten minutes before end of Test Point No. 2, Experiment II-b. Test Point duration, 3 hours and 19 minutes. Time of temperature data for this analysis was 3 hours and 9 minutes.

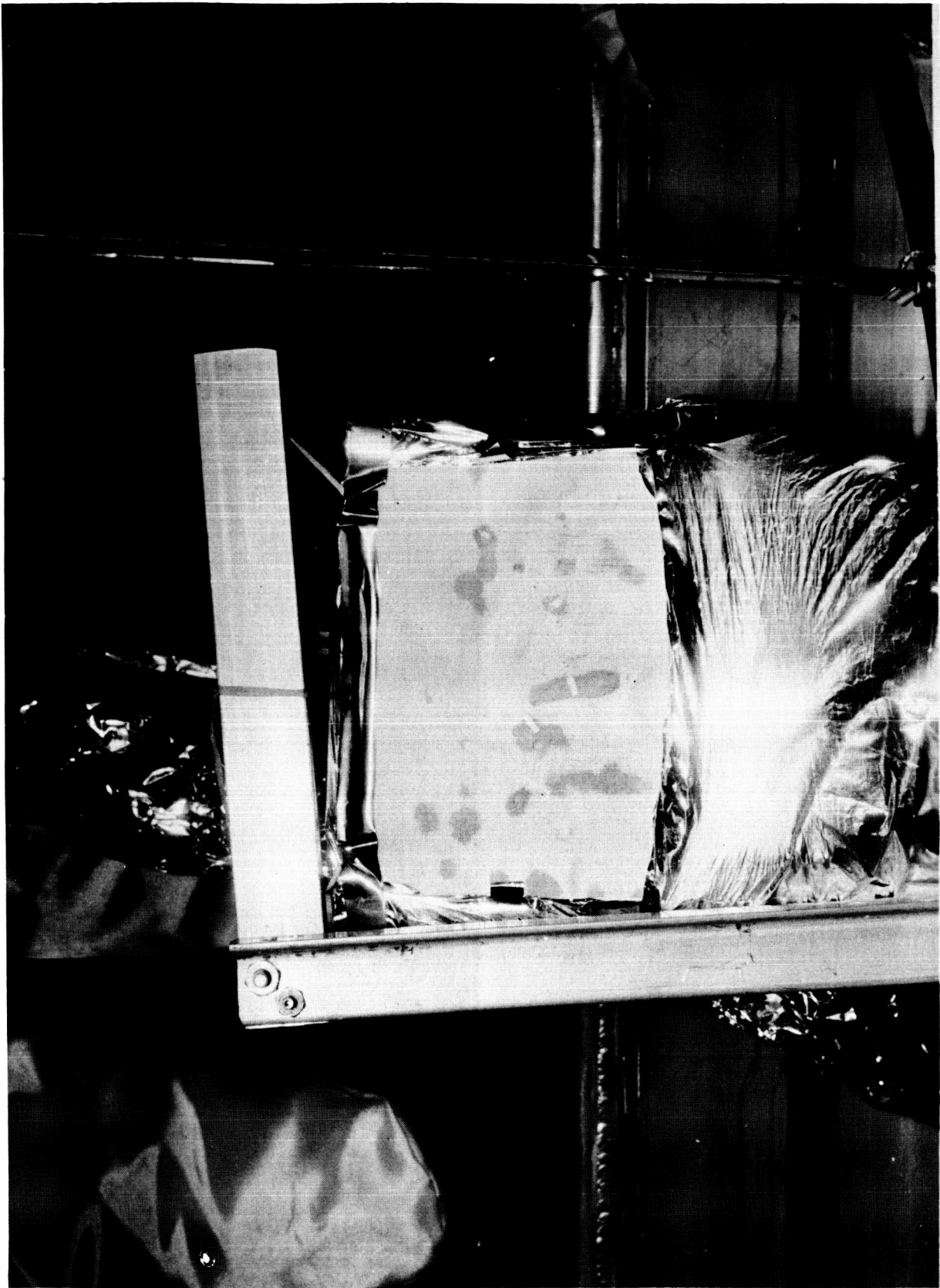


FIGURE D1 THERMOCOUPLE TEST PANEL



FIGURE D2 BACK OF THERMOCOUPLE TEST PANEL AS MOUNTED IN SES TEST CHAMBER

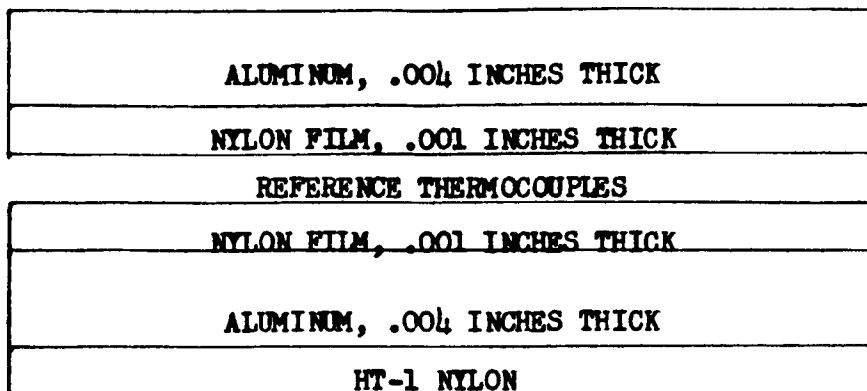


FIGURE D3 - THERMOCOUPLE TEST PANEL CROSS SECTION

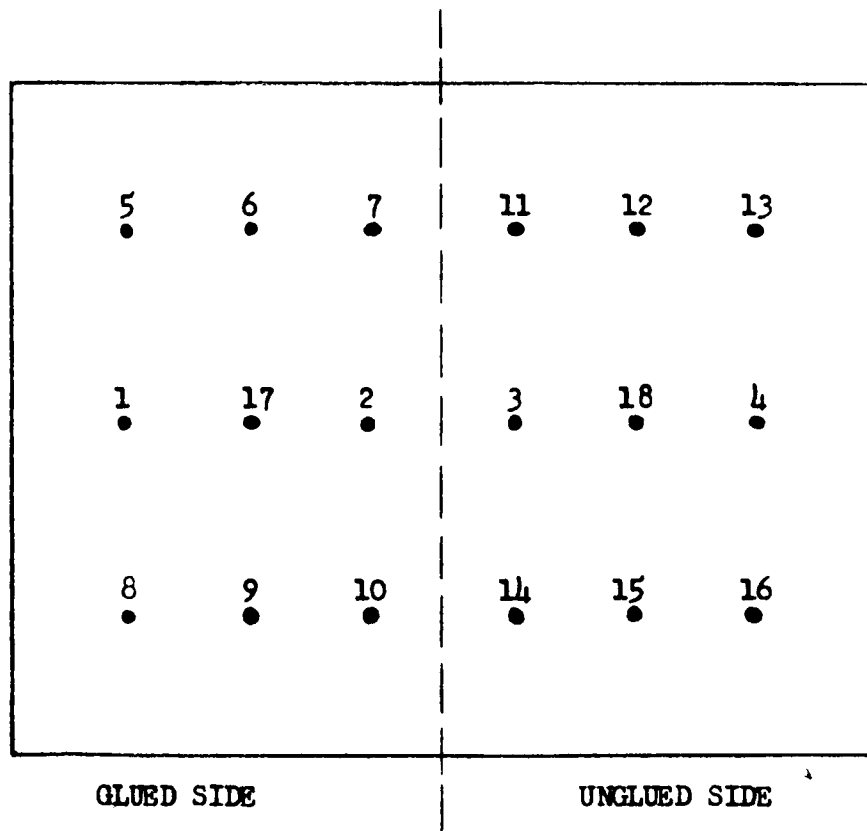


FIGURE D4 - THERMOCOUPLE LOCATIONS ON TEST PANEL

TABLE D I

THERMOCOUPLE MOUNTING METHODS

<u>Thermocouple Numbers</u>	<u>Mounting Method</u>
1, 2, 3, 4	Reference thermocouples, laminated between nylon films in interior of panel. (See Figures and).
5 and 10	Painted with Finch Paint Co., "Cat-A-Lac", flat white paint, woven into HT-1 nylon with bead stuck to back side of nylon with Eastman 910 on glued side of panel.
11 and 16	Same as No. 5 and No. 10 except mounted on unglued side of panel.
7 and 8	Unpainted, woven into HT-1 nylon with bead stuck to back side of nylon with Eastman 910 on glued side of panel.
13 and 14	Same as No. 7 and No. 8 except mounted on unglued side of panel.
9	Painted with "Cat-A-Lac" paint, unwoven, with bead stuck on back side of HT-1 nylon with Eastman 910 on glued side of panel.
15	Same as No. 9 except mounted on unglued side of panel.
6	Unpainted, unwoven, with bead stuck on back side of HT-1 nylon with Eastman 910 on glued side of panel.
12	Same as No. 6 except mounted on unglued side of panel.
17	Painted with "Cat-A-Lac" paint, with bead stuck on front side of HT-1 nylon with Eastman 910.
18	Same as No. 17 except mounted on unglued side of panel.

TABLE D II
 TEST THERMOCOUPLE TEMPERATURES
 AT THREE TEST CONDITIONS

THERMO- COUPLE NO.	DVM CHANNEL NO.	COLD SOAK, °F	LUNAR ON, °F	LUNAR SOLAR ON, °F
1	97	-95.38	125.19	217.90
2	98	-94.23	124.77	216.37
3	99	-94.23	123.94	214.07
4	100	-90.24	123.52	212.53
5	101	-101.75	127.28	223.25
6	102	-100.00	126.86	219.43
7	103	-95.96	125.19	217.52
8	104	-101.75	125.19	223.25
9	105	-123.75	129.37	231.23
10	106	-135.43	126.86	229.71
11	107	-150.60	121.00	206.74
12	108	-149.96	123.52	211.37
13	109	-144.22	122.26	216.37
14	110	-137.92	122.68	208.29
15	111	-144.22	122.26	212.91
16	112	-130.48	121.00	218.28
17	113	-101.75	126.45	221.72
18	114	-148.04	121.00	211.37

(5) -102	(6) -100	(7) -96	(11) -151	(12) -150	(13) -144
(1) -95	(17) -102	(2) -94	(3) -94	(18) -148	(4) -90
(8) -102	(9) -124	(10) -135	(14) -138	(15) -144	(16) -131

(A) TEST CONDITION: COLD SOAK

(5) 127	(6) 127	(7) 125	(11) 121	(12) 124	(13) 122
(1) 125	(17) 126	(2) 125	(3) 124	(18) 121	(4) 124
(8) 125	(9) 129	(10) 127	(14) 123	(15) 122	(16) 121

(B) TEST CONDITION: LUNAR ON

(5) 223	(6) 219	(7) 218	(11) 207	(12) 211	(13) 216
(1) 218	(17) 222	(2) 216	(3) 214	(18) 211	(4) 213
(8) 223	(9) 231	(10) 230	(14) 208	(15) 213	(16) 218

(C) TEST CONDITION: LUNAR AND SOLAR ON

FIGURE D5

TEST TEMPERATURES SHOWN AS LOCATED ON TEST PANEL

NOTE: Number in parenthesis is thermocouple number.

The complete time history of the test thermocouples for all test points is shown in Appendix G (Plotted Temperature Data). The digital volt-meter channel numbers corresponding to the test thermocouple numbers are shown as a part of Table D II.

ANALYSIS OF RESULTS

Comparison of the temperature readings of the various thermocouples should, ideally, be made at steady state temperature conditions. However, only one of the test conditions examined was at a condition approaching steady state. This was Test Point No. 1, Experiment II-b (lunar simulator on). The temperature versus time plots of the test thermocouples show that the test panel temperatures had not stabilized completely at the end of this test point. The other two test conditions, while even longer than Test Point No. 1, Experiment II-b show even more pronounced transient characteristics. However, no other test points providing more favorable conditions were available. The test points chosen were the most favorable considering the requirements of the presence or absence of solar or lunar simulation and time duration.

As shown in Figure D3, the reference thermocouples, numbers 1, 2, 3 and 4 are mounted between thin aluminum sheets. All other thermocouples, except numbers 17 and 18, are located on the back side of the HT-1 nylon. Thermocouple numbers 17 and 18 are mounted on the front side of the HT-1 nylon.

The cold soak condition, as shown in Table D II and Figure D5, is presented in order to provide information on the temperature indications during cold soak with no possible error due to incident radiant energy. The validity of these temperatures is compromised due to the fact that the temperatures had not stabilized which indicates that temperature gradients existed within the test panel.

Figure D5 and Table D II also show temperatures during the test condition of lunar surface simulation. Reference to the temperature plots in Appendix G shows that these temperatures are near steady state. Some rise in temperature is indicated but the rate of increase is slight. The temperatures on the panel show a significant difference between the glued and unglued side of the panel. However, the temperatures on each side show no significant difference when compared among themselves. That is, any particular temperature on the glued side shows no significant difference from any other temperature on the glued side. Also, any particular temperature on the unglued side shows no significant difference from any other temperature on the unglued side. It should be mentioned that the radiant energy source, during this test condition, was the infrared lamps of the lunar surface simulator which emit energy in the long wavelength region of the infrared spectrum.

The third test condition examined was a condition with both lunar surface simulation (infrared lamps) and solar lamps on. The temperature data were taken from the next-to-the-last data point in Test Point No. 2, Experiment II-b which was 10 minutes from the end of the test point. This data point was used instead of the last data point because the last data point had a "no reading" for one of the test thermocouples. The test temperatures are shown in Figure D5 and Table D II. Reference to the plotted data in Appendix G (Plotted Temperature Data) for this test point reveals that the

test panel had not yet temperature stabilized. The rate of change of temperature at the end of the test point, while not severe, may be of sufficient magnitude to affect the comparison of the test temperatures.

All of the temperatures on the glued side of the panel show good agreement except two, thermocouple numbers 9 and 10. Both these thermocouples read significantly higher than the reference thermocouples and the other thermocouples on the glued side of the panel. There is also a significant difference between the temperature indication of thermocouple numbers 5 and 10. These two thermocouples were mounted by the same method.

On the unglued side of the panel, the most significant differences are between thermocouples that are mounted by the same method. Thermocouple number 11 is significantly different from thermocouple number 16. These two thermocouples are mounted in the same manner. The same situation exists for thermocouple numbers 13 and 14. These differences between the identically mounted thermocouples are greater than the differences between the test thermocouples and the reference thermocouples. It is also noted here that the temperature of thermocouple numbers 17 (glued) and 18 (unglued), which are mounted on the outside of the HT-1 nylon, where the effect of the solar lamps should be greatest, show good agreement with the reference thermocouples on their respective side on the panel. As expected, thermocouple number 17, on the glued side, indicates slightly higher than its reference thermocouples. However, thermocouple number 18, on the unglued side, while still in good agreement, reads slightly lower than its reference thermocouples.

CONCLUSIONS

1. Eastman 910 cement is not a good cement for thermocouple attachment. The 910 cement on the test panel turned dark under solar irradiation.
2. Differences in test thermocouple readings were greatest during cold soak at very low temperatures. The differences could arise from any one or all of the following:
 - (a) The emissivity of darkened cements was higher than the HT-1 material, causing local cemented areas to become colder;
 - (b) The test panel was not at steady state conditions;
 - (c) The panel may not have been perfectly adiabatic (zero net heat transfer) in the direction normal to the panel surface.
3. Best agreement between all thermocouples was noted when the panel was exposed to infrared heat only. For this condition, $\alpha/\epsilon = 1.0$ for all the cements, paints and the HT-1.
4. Under solar irradiation, the greatest variation in test thermocouple readings from their nearest reference temperature was about 12°F.
5. The conclusions noted above are not entirely applicable to measurements on the Apollo EMU thermal garment since **none** of the test thermocouples were attached identically to those on the EMU. They were, however, similar.

6. Best overall agreement was obtained from thermocouples that were woven into the HT-1 with the bead stuck to the back side of the HT-1 and without Eastman 910 cement.

7. Estimated overall accuracy of Apollo EMU thermal garment measurements are:

- (a) Cold soak conditions: $\pm 15^{\circ}\text{F}$
- (b) Exposure to infrared radiation: $\pm 3^{\circ}\text{F}$
- (c) Exposure to SES solar radiation: $\pm 6^{\circ}\text{F}$

APPENDIX E

TABULATED TEMPERATURE DATA

EXPERIMENT II-a

Test Day No. 1

SIMULATED DEEP SPACE EXTRAVEHICULAR OPERATION

Note: Data analysis indicates that channels 97, 99, 100, 101, 102, 103, and 104 are unreliable for Test Day 1. Data for Test Day 2 should be used where applicable.

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, FIRST TEST DAY (1-6-65)
 TEST POINT NO. 1, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS ON

TIME		CHANNELS	TEMPERATURES - FAHRENHEIT															
18	0	2-12	71.74	68.17	74.86	54.19	68.17	69.96	75.30	78.84	69.52	77.95	79.72	79.72				
		13-23	-0.00	-0.00	76.63	60.99	60.99	65.04	86.31	42.73	58.28	81.92	79.72					
		24-29	79.28	78.40	-0.00	-0.90	78.40	87.62	81.04	81.04	77.51	-0.00	77.51	87.62				
		31-41	78.40	89.36	79.28	77.95	81.04	80.16	68.62	70.85	69.52	69.96	46.88					
		42-52	75.30	81.04	69.96	66.83	69.07	66.83	68.62	66.83	67.73	66.83	69.96	46.88				
		53-59	47.33	69.96	66.38	67.28	72.19	67.28	67.73	66.83	54.19	65.49	23.57	17.39				
		61-71	-0.00	69.07	54.64	46.88	63.24	62.79	62.79	63.24	-0.00	-112.33	-79.55	-157.08				
		72-82	62.79	60.54	42.73	60.54	61.89	64.14	-0.00	-0.00	-0.00	-112.33	-79.55	-157.08				
18	0	83-89	-189.80	-135.43	-49.75	-175.81	-158.39	-153.18	-106.43	-0.00	-0.00	-0.00	-0.00	-0.00				
		91-101	-110.55	-126.18	-132.95	-143.58	-139.80	-126.18	-164.99	-0.00	-0.00	-0.00	26.87	-0.00				
		102-112	-121.32	-41.87	-0.00	-0.00	-0.00	34.84	22.15	22.15	30.17	-0.00	26.87	-0.00				
		113-119	-0.00	101.90	70.41	73.52	73.08	57.37	57.37	57.37	-0.00	-0.00	-0.00	-0.00				
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
18	15	2-12	71.30	65.94	73.97	44.12	66.38	69.07	75.74	80.16	69.07	79.72	81.04					
		13-23	-0.00	-0.00	77.51	59.18	59.18	65.04	88.49	47.33	60.54	-0.00	-0.00	81.92				
		24-29	81.04	80.16	-0.00	-0.00	79.28	89.36	82.80	82.80	78.84	-0.00	-0.00	-0.00				
		31-41	79.72	91.97	81.04	79.28	81.92	81.92	68.17	70.85	69.07	69.07	40.88					
		42-52	76.63	83.24	69.07	63.69	67.28	62.34	68.17	68.17	70.85	69.07	69.07	40.88				
		53-59	41.35	70.41	65.94	67.28	72.63	67.73	66.83	66.83	49.17	63.24	17.39	1.96				
		61-71	-0.00	68.62	44.12	36.71	60.99	61.89	63.24	63.24	-0.00	-0.00	-90.81	-178.56				
		72-82	61.44	60.99	39.96	58.28	60.54	63.69	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
18	15	83-89	-205.04	-149.96	-62.02	-186.96	-171.71	-169.68	-119.51	-0.00	-0.00	-0.00	-0.00					
		91-101	-121.32	-137.30	-142.95	-150.48	-152.53	-137.92	-181.34	-0.00	-131.71	-59.89	-76.78					
		102-112	-0.00	-42.39	-128.63	-0.00	-0.00	33.44	20.25	20.25	24.04	-0.00	24.04	-0.00				
		113-119	-0.00	-0.00	68.17	-0.00	72.63	50.08	51.00	51.00	-0.00	-0.00	-0.00	-0.00				
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
18	30	2-12	71.74	63.24	73.52	34.84	64.14	68.62	76.63	81.92	68.17	81.04	82.36					
		13-23	-0.00	-0.00	78.40	57.37	56.92	-0.00	-0.00	88.93	48.25	60.54	-0.00	84.12				
		24-29	82.36	81.48	-0.00	-0.00	80.60	90.67	84.12	84.12	79.72	-0.00	-0.00	-0.00				
		31-41	80.60	92.41	92.80	80.60	83.24	83.68	84.12	84.12	79.72	-0.00	-0.00	-0.00				
		42-52	77.95	85.87	69.07	61.44	-0.00	57.82	-0.00	-0.00	70.41	68.62	68.17	36.24				
		53-59	36.71	70.85	66.38	67.73	73.08	68.17	67.28	67.28	70.41	68.62	68.17	36.24				
		61-71	-0.00	69.52	34.38	27.82	59.63	62.34	64.14	64.14	45.50	62.34	-0.00	-1.96				
		72-82	61.44	64.34	39.03	56.92	60.08	63.69	-0.00	-0.00	-0.00	-138.55	-97.11	-185.54				
18	30	83-89	-211.78	-154.48	-69.12	-194.01	-176.49	-172.39	-127.41	-0.00	-0.00	-0.00	-0.00					
		91-101	-128.63	-142.95	-148.00	-161.02	-155.78	-0.00	-186.25	-186.25	-0.00	-0.00	-0.00	-77.88				
		102-112	-0.00	-42.92	-131.71	-0.00	-0.00	33.91	22.15	22.15	29.70	-0.00	27.82	-0.00				
		113-119	-95.38	-0.00	57.28	-0.00	-0.00	43.65	43.65	43.65	-0.00	-0.00	-0.00	-0.00				
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, FIRST TEST DAY (1-6-65)
 TEST POINT NO. 1. SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS ON

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT																
18 45	2-12	71.74	61.44	-0.00	26.40	62.34	-0.00	77.51	83.68	67.28	82.80	83.68	83.68	83.68	83.68	83.68	83.68	83.68
	13-23	-0.00	-0.00	79.72	-0.00	55.10	65.04	89.80	47.33	59.18	88.49	47.33	47.33	47.33	47.33	47.33	47.33	47.33
	24-29	84.12	82.80	-0.00	81.48	81.92	91.10	85.87	81.04	-0.00	81.48	81.04	81.04	81.04	81.04	81.04	81.04	81.04
18 45	31-41	81.48	92.84	94.56	82.36	84.99	85.43	85.87	81.04	-0.00	81.48	81.04	81.04	81.04	81.04	81.04	81.04	81.04
	42-52	79.28	86.74	59.07	59.18	63.69	53.28	66.83	70.85	68.62	67.28	70.85	70.85	70.85	70.85	70.85	70.85	70.85
	53-59	32.51	71.30	56.83	68.17	73.97	69.07	67.73	43.19	62.34	-0.00	43.19	43.19	43.19	43.19	43.19	43.19	43.19
18 45	61-71	-286.54	70.41	25.46	20.25	57.82	62.79	-0.00	-0.00	-144.22	-102.33	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	72-82	61.89	63.24	38.10	55.10	60.54	65.04	-0.00	-0.00	-144.22	-102.33	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	83-89	-224.08	-157.08	-74.03	-198.39	-180.64	-174.44	-133.56	-0.00	-0.00	-61.51	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
18 45	91-101	-134.81	-146.76	-151.89	-166.33	-158.39	-146.76	-191.24	-0.00	-0.00	-61.51	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	102-112	-141.69	-47.11	-136.67	-0.00	-0.00	32.04	16.43	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	-0.00	69.07	56.83	73.97	-0.00	37.17	37.17	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
19 0	2-12	-0.00	60.08	71.30	19.77	60.54	67.28	78.40	84.99	66.83	84.12	84.99	84.99	84.99	84.99	84.99	84.99	84.99
	13-23	-0.00	-0.00	90.60	52.82	53.28	-0.00	89.36	47.33	51.45	89.80	47.33	47.33	47.33	47.33	47.33	47.33	47.33
	24-29	85.43	84.12	-0.00	-0.00	83.68	90.67	87.18	82.36	-0.00	-0.00	82.36	82.36	82.36	82.36	82.36	82.36	82.36
19 0	31-41	83.24	92.84	96.31	83.58	86.31	87.18	87.18	82.36	-0.00	-0.00	82.36	82.36	82.36	82.36	82.36	82.36	82.36
	42-52	80.16	88.93	69.07	57.82	62.34	48.71	65.94	70.85	69.07	66.83	70.85	70.85	70.85	70.85	70.85	70.85	70.85
	53-59	29.23	72.19	72.19	69.07	74.86	69.96	69.07	40.88	62.34	8.27	40.88	40.88	40.88	40.88	40.88	40.88	40.88
19 0	61-71	-0.00	71.30	17.87	60.54	9.23	63.69	66.83	-0.00	-146.12	-131.09	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	72-82	62.79	64.59	37.64	52.82	60.99	70.41	-0.00	-0.00	-146.12	-131.09	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	83-89	-217.88	-159.04	-75.68	-202.07	-181.34	-174.44	-138.55	-0.00	-0.00	-62.59	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
19 0	91-101	-139.80	-149.32	-153.18	-169.01	-160.36	-149.96	-191.96	-0.00	-0.00	-62.59	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	102-112	-0.00	-45.54	-0.00	-0.00	-0.00	-0.00	25.46	26.40	-0.00	21.20	26.40	26.40	26.40	26.40	26.40	26.40	26.40
	113-119	-0.00	69.07	56.83	74.86	69.52	30.63	30.63	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
19 15	2-12	-0.00	59.18	71.30	13.56	58.28	66.38	79.28	86.31	65.94	85.87	86.31	86.31	86.31	86.31	86.31	86.31	86.31
	13-23	-0.00	81.48	91.92	51.00	51.00	65.04	89.36	47.33	51.45	91.10	47.33	47.33	47.33	47.33	47.33	47.33	47.33
	24-29	86.31	86.31	-0.00	84.12	84.56	90.67	87.18	88.05	-0.00	-0.00	88.05	88.05	88.05	88.05	88.05	88.05	88.05
19 15	31-41	84.12	92.84	97.62	84.59	87.18	87.18	87.18	88.05	-0.00	-0.00	88.05	88.05	88.05	88.05	88.05	88.05	88.05
	42-52	81.04	90.23	59.52	56.46	60.99	44.58	44.58	70.85	69.07	65.94	70.85	70.85	70.85	70.85	70.85	70.85	70.85
	53-59	26.40	73.08	69.07	69.96	76.19	71.30	69.96	39.49	63.24	6.33	39.49	39.49	39.49	39.49	39.49	39.49	39.49
19 15	61-71	-0.00	72.63	-0.00	8.27	53.73	65.04	67.73	-0.00	-149.32	-110.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	72-82	63.69	65.49	37.17	51.00	61.44	67.28	-0.00	-0.00	-149.32	-110.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	83-89	-220.19	-161.68	-78.44	-204.29	-184.13	-175.81	-142.32	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
19 15	91-101	-142.32	-151.89	-155.78	-172.39	-162.34	-152.53	-195.47	-0.00	-140.43	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	102-112	-0.00	-47.11	-137.92	-0.00	-0.00	30.63	18.82	25.46	-0.00	24.99	25.46	25.46	25.46	25.46	25.46	25.46	25.46
	113-119	-105.84	68.62	66.83	75.30	74.41	24.99	24.51	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-6-65)
 TEST POINT NO. 1, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS ON

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																	
19	30	2-12	72.19	58.28	70.85	8.27	47.33	65.94	80.16	88.05	65.49	86.74	87.18						
		13-23	-0.00	-0.00	83.24	49.17	48.71	104.90	90.23	49.17	56.46	-0.00	90.67						
19	30	24-29	87.62	86.31	-0.00	-0.00	85.87	91.10											
		31-41	85.43	93.27	98.93	86.31	88.49	89.36	89.36	84.99	-0.00	-0.00	-0.00						
		42-52	82.80	91.54	69.52	55.55	59.63	40.88	-0.00	71.30	69.52	65.49	51.91						
19	30	53-59	24.64	74.41	59.96	70.85	77.51	72.19	70.85	38.10	64.14	4.39	-9.35						
		61-71	-0.00	73.52	4.88	2.93	51.45	-0.00	69.07	-0.00	-151.24	-109.96	-196.93						
		72-82	64.59	65.94	36.71	48.71	61.89	68.17	-0.00	-0.00									
		83-89	-221.74	-159.70	-0.00	-205.78	-171.04	-172.39	-145.49	-0.00	-141.69	-64.81	-0.00						
19	30	91-101	-146.76	-153.18	-156.43	-174.44	-159.70	-151.89	-196.93	-0.00	-0.00	-0.00	-0.00						
		102-112	-142.95	-47.11	-178.56	-0.00	-0.00	30.63	17.87	22.62	-0.00	-0.00	-0.00						
		113-119	-0.00	69.07	67.28	-17.83	-0.00	19.30	19.30	-0.00	-0.00	-0.00	-0.00						
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
20	20	2-12	70.41	57.82	-0.00	-5.89	50.54	65.49	82.36	88.93	-0.00	90.67	90.23						
		13-23	-0.00	-156.43	-0.00	43.19	44.58	65.94	88.49	47.33	56.01	71.74	91.54						
20	20	24-29	90.67	89.80	-0.00	-0.00	89.80	89.36											
		31-41	89.36	91.10	91.97	88.93	90.67	92.84	91.97	88.49	-0.00	-0.00	89.80						
		42-52	85.87	92.41	72.19	55.10	57.37	33.91	64.14	73.08	71.74	60.08	17.87						
20	20	53-59	17.39	78.84	74.86	74.96	83.68	75.74	74.41										
		61-71	-0.00	77.51	-0.00	-10.34	45.04	68.17	72.19	38.10	-0.00	-0.00	-14.32						
		72-82	-0.00	66.38	36.24	42.27	64.59	70.85	-0.00	-0.00	-0.00	-0.00	-198.39						
		83-89	-220.19	-207.27	-71.84	-0.00	-184.84	-161.02	-153.18	-0.00	-0.00	-0.00	-0.00						
20	20	91-101	-154.48	-153.18	-154.48	-177.87	-145.49	-146.12	-196.20	-0.00	-0.00	-61.51	-0.00						
		102-112	-164.33	-50.81	-136.05	-0.00	-0.00	29.70	-0.00	24.04	-0.00	22.15	-0.00						
		113-119	-0.00	70.41	67.73	-0.00	78.84	0.98	0.98	-0.00	-0.00	-0.00	-0.00						
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
20	40	2-12	86.49	57.82	69.96	-10.34	48.25	64.59	-0.00	88.93	63.69	91.54	90.67						
		13-23	-0.00	-0.00	88.02	42.73	42.27	65.94	88.05	48.71	55.55	71.74	91.10						
20	40	24-29	91.54	90.67	-0.00	-0.00	91.10	87.62											
		31-41	90.23	90.67	92.41	89.80	91.54	93.71	92.84	89.80	-0.00	-0.00	88.93						
		42-52	80.31	92.41	72.63	55.10	56.92	31.57	63.69	91.10	72.63	63.69	15.48						
20	40	53-59	15.60	80.60	76.63	76.63	85.43	77.51	75.30										
		61-71	-0.00	78.84	-12.33	-14.82	56.92	-0.00	74.41	39.03	68.62	-1.96	-16.32						
		72-82	67.28	66.83	36.24	39.96	-0.00	71.30	-0.00	-0.00	-151.89	-99.42	-201.33						
		83-89	-223.30	-153.83	-0.00	-209.52	-184.84	-161.02	-157.08	-0.00	-0.00	-0.00	-0.00						
20	40	91-101	-157.73	-155.78	-134.48	-179.94	-147.40	-148.68	-199.13	-0.00	-0.00	-64.81	-0.00						
		102-112	-139.17	-55.60	-0.00	-0.00	-0.00	27.35	21.20	21.20	-0.00	19.30	-0.00						
		113-119	-0.00	83.68	68.62	-209.52	78.84	-0.00	-4.41	-0.00	-0.00	-0.00	-0.00						
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 WAS 9-3414, EXP. II-A, FIRST TEST DAY (1-6-65)
 TEST POINT NO. 1, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS ON

TIME	CANNELS	TEMPERATURES - FARENHEIT											
21 0	2-12	75.74	58.28	59.52	-0.00	46.42	63.69	75.30	88.49	63.24	88.05	91.10	
	13-23	-0.00	-153.63	88.93	40.88	40.42	-0.00	87.62	49.17	56.01	-0.00	90.67	
21 0	24-29	91.97	91.10	-0.00	-0.00	91.97	88.49	92.84	90.67	-0.00	-0.00	88.49	
	31-41	91.54	90.57	93.27	90.23	91.97	94.57	63.24	-0.00	73.52	63.24	-0.00	
21 0	42-52	86.74	91.97	73.09	55.55	56.46	30.63	76.63	-0.00	-0.00	-0.00	-0.00	
	53-59	13.08	81.48	77.95	77.95	86.74	78.84	75.30	39.49	78.84	-7.86	-17.83	
	61-71	-190.52	80.16	-15.32	-17.83	41.35	69.07	-0.00	-0.00	-152.53	-0.00	-0.00	
	72-82	-0.00	67.28	36.24	38.10	65.94	71.30	-159.70	-0.00	-0.00	-0.00	-0.00	
21 0	83-89	-223.50	-157.08	-61.51	-210.27	-186.25	-163.66	-0.00	-0.00	-142.95	-64.81	-0.00	
	91-101	-161.02	-157.73	-156.43	-0.00	-150.60	-0.00	-199.13	-0.00	-0.00	20.72	-0.00	
	102-112	-142.95	-51.34	-139.80	-0.00	-0.00	-0.00	25.46	29.70	-0.00	-0.00	-0.00	
	113-119	-0.00	70.41	58.62	-0.00	-0.00	-0.00	-10.84	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
21 20	2-12	67.73	58.73	59.52	-17.33	44.12	63.24	70.85	88.49	62.79	92.84	91.10	
	13-23	-0.00	-247.50	89.36	39.49	38.57	65.49	87.62	50.08	55.55	-0.00	90.67	
21 20	24-29	92.41	91.10	-0.00	89.80	92.41	88.05	92.84	91.54	-0.00	-0.00	88.93	
	31-41	92.41	90.23	93.71	91.10	91.97	94.57	62.34	74.86	73.97	62.79	11.64	
21 20	42-52	85.87	91.97	73.97	56.01	56.46	29.23	77.95	74.86	-0.00	-0.00	-0.00	
	53-59	11.16	82.00	78.84	78.84	87.62	79.72	76.63	39.96	70.85	-4.41	-19.34	
	61-71	-187.03	81.48	-17.83	-20.85	39.49	-0.00	-0.00	-0.00	-151.89	-107.60	-203.55	
	72-82	81.04	67.28	36.24	36.24	66.38	71.30	-0.00	-0.00	-0.00	-0.00	-0.00	
21 20	83-89	-224.08	-161.68	-64.81	-211.03	-186.96	-167.67	-162.34	-0.00	-0.00	-0.00	-0.00	
	91-101	-163.66	-159.70	-158.39	-182.73	-156.43	-155.78	-199.86	14.04	-0.00	10.68	-0.00	
	102-112	-145.49	-50.81	-0.00	-0.00	-0.00	25.46	11.16	-0.00	-0.00	-0.00	-0.00	
	113-119	-0.00	70.41	68.62	-12.83	80.60	-17.33	-17.33	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
21 40	2-12	-0.00	59.18	69.96	-20.34	42.27	62.79	84.56	88.05	61.89	92.84	91.10	
	13-23	-0.00	-108.78	90.23	38.10	37.17	65.04	87.62	50.08	56.01	-0.00	90.23	
21 40	24-29	92.41	91.54	-0.00	90.23	93.27	88.05	92.84	92.41	-0.00	-0.00	88.49	
	31-41	95.27	90.23	94.14	91.54	91.54	94.57	61.89	74.86	74.41	62.34	-24.89	
21 40	42-52	88.05	91.54	74.41	56.01	56.01	28.29	78.84	74.86	-0.00	-0.00	-0.00	
	53-59	4.23	83.24	79.72	79.72	88.05	81.04	78.84	39.96	71.74	-5.89	-20.85	
	61-71	-0.00	82.80	-0.00	-23.88	37.64	-0.00	77.07	-0.00	-152.53	-112.93	-205.04	
	72-82	67.28	67.73	35.78	34.38	66.38	70.85	-0.00	-0.00	-0.00	-0.00	-0.00	
21 40	83-89	-224.86	-0.00	-0.00	-212.54	-186.96	-171.04	-164.99	-0.00	-0.00	-0.00	-0.00	
	91-101	-165.66	-161.02	-159.70	-184.13	-161.68	-159.70	-200.60	19.77	-141.69	-64.81	-0.00	
	102-112	-142.32	-52.40	-140.43	-0.00	-0.00	73.52	-0.00	-0.00	-0.00	17.87	-0.00	
	113-119	-0.00	69.96	68.62	-0.00	81.04	-24.39	-22.87	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-6-65)
 TEST POINT NO. 1, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS ON

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
22 0	2- 12	-0.00	59.18	59.96	-22.87	40.42	61.89	-0.00	87.62	60.99	-0.00	91.10	
	13- 23	-0.00	-108.19	90.23	36.24	35.31	65.04	87.62	50.54	56.92	-0.00	89.36	
22 0	24- 29	92.41	91.54	-0.00	90.67	93.27	88.05						
	31- 41	93.71	90.23	94.57	91.97	91.97	95.01	92.84	92.41	-0.00	-0.00	88.93	
	42- 52	86.93	91.10	74.86	56.46	56.46	27.82	61.44	75.30	74.86	61.44	8.27	
22 0	53- 59	7.30	84.12	80.16	79.72	88.05	81.92	79.28					
	61- 71	-257.04	83.24	-0.00	-26.42	36.24	-0.00	77.51	40.42	71.74	-6.88	-22.36	
	72- 82	66.83	67.73	35.78	33.44	66.38	70.41	-0.00	-0.00	-152.53	-0.00	-206.53	
	83- 89	-225.65	-168.34	-59.66	-213.30	-187.67	-172.39	-166.33					
22 0	91-101	-163.54	-162.34	-150.36	-185.54	-163.66	-161.68	-200.60	-0.00	-142.95	-0.00	-82.34	
	102-112	-146.76	-0.00	-0.00	-0.00	-0.00	23.57	8.27	14.52	-0.00	15.96	-0.00	
	113-119	-0.00	96.30	68.17	-0.00	80.60	-28.46	-0.00					
-0	201-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXS. II-A, FIRST TEST DAY (1-6-65 AND 1-7-65)
 TEST POINT NO. 2, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

22	46	2-12	78.40	57.92	69.96	-25.40	36.24	59.18	84.56	86.31	58.28	92.41	89.36
		13-23	9999.00	96.74	90.67	32.51	32.04	62.34	87.18	49.63	55.55	90.67	87.62
22	46	24-29	91.54	90.57	9999.00	9999.00	93.27	86.74					
		31-41	92.41	88.93	94.57	91.37	89.80	93.27	90.67	91.97	9999.00	9999.00	87.18
		42-52	86.74	89.80	75.74	53.55	56.46	26.40	58.73	76.19	75.30	60.54	4.88
22	46	53-59	3.90	82.43	81.48	81.48	89.80	81.48	80.60				
		61-71	86.31	84.12	-26.42	-32.54	32.51	67.73	78.84	40.42	73.08	-9.84	-25.40
		72-82	66.34	68.17	31.57	29.74	65.94	70.41	9999.00	9999.00	-152.53	-119.51	-208.02
		83-89	-226.43	-170.36	-73.48	-214.42	-188.38	-172.39	-171.71				
22	46	91-101	-172.39	-164.33	-162.34	-185.36	-167.00	-164.99	-202.07	9999.00	9999.00	9999.00	9999.00
		102-112	-176.49	9999.00	-142.32	9999.00	9999.00	9999.00	12.12	13.56	9999.00	15.96	9999.00
		113-120	9999.00	74.41	72.63	9999.00	80.16	-38.75	-38.23	9999.00			
22	49	2-12	78.40	57.82	69.52	-25.47	35.78	59.18	84.12	85.43	58.28	90.23	88.49
		13-23	9999.00	91.97	90.23	32.51	32.04	62.34	9999.00	49.17	55.55	89.36	86.74
		24-29	90.67	89.80	9999.00	9999.00	92.41	85.87					
22	49	31-41	91.54	88.49	92.84	90.23	89.36	92.41	89.80	91.54	9999.00	9999.00	9999.00
		42-52	84.99	83.49	75.74	53.55	56.46	25.93	58.28	75.74	75.30	60.08	4.88
		53-59	3.42	82.43	81.48	81.48	89.36	83.24	80.60				
22	49	61-71	9999.00	84.12	9999.00	-32.55	32.51	9999.00	78.84	40.88	73.08	-10.34	-25.91
		72-82	65.94	68.17	35.78	29.70	65.94	69.96	9999.00	9999.00	-179.25	-119.51	-208.02
		83-89	-226.43	9999.00	9999.00	-214.42	-188.38	-171.71	-171.71				
22	49	91-101	-172.39	-164.33	-162.34	-185.36	-167.00	-164.99	-202.07	9999.00	9999.00	-66.42	-79.55
		102-112	-144.85	-50.28	9999.00	9999.00	9999.00	22.15	10.68	9999.00	9999.00	9999.00	9999.00
		113-120	9999.00	9999.00	75.74	9999.00	80.60	-39.27	-39.27	9999.00			
22	52	2-12	78.40	57.92	69.97	-29.48	35.78	59.18	83.24	84.56	58.28	91.10	88.05
		13-23	9999.00	9999.00	89.35	32.51	31.57	61.89	85.43	48.25	54.64	88.93	85.87
		24-29	89.80	87.52	9999.00	9999.00	84.56						
22	52	31-41	91.10	87.18	91.54	89.36	88.05	91.54	88.93	90.23	9999.00	9999.00	85.43
		42-52	83.64	85.05	75.74	53.55	56.46	25.93	58.28	75.74	74.86	60.08	4.39
		53-59	3.42	82.43	81.48	81.48	89.36	82.80	80.60				
22	52	61-71	9999.00	84.12	-27.44	-32.55	9999.00	98.03	78.40	40.42	73.08	-10.34	-25.91
		72-82	65.94	68.52	35.78	29.23	88.05	69.52	9999.00	9999.00	-196.20	-107.60	-208.02
		83-89	-226.43	-171.04	-74.57	-215.58	-188.38	-172.39	-171.04				
22	52	91-101	-172.39	-164.33	-162.34	-187.67	-167.00	-164.99	-202.07	9999.00	-143.58	-66.96	9999.00
		102-112	-141.05	-51.97	46.95	9999.00	9999.00	21.67	12.12	12.12	9999.00	13.08	9999.00
		113-120	9999.00	95.01	76.84	80.60	9999.00	-39.79	9999.00	9999.00			
22	55	2-12	78.40	57.92	68.62	-29.48	35.31	59.18	82.80	84.12	57.82	90.67	87.18
		13-23	9999.00	9999.00	88.93	32.14	31.57	61.89	80.16	47.79	54.64	88.05	84.99
		24-29	89.80	88.49	9999.00	9999.00	91.10	84.12					
22	55	31-41	90.23	86.31	90.67	89.35	87.18	90.67	9999.00	90.23	9999.00	9999.00	85.43
		42-52	82.80	87.18	75.74	53.55	56.46	25.93	58.28	75.74	74.86	60.08	9999.00
		53-59	2.93	84.99	81.04	81.48	88.93	82.80	80.60				
22	55	61-71	9999.00	83.68	-27.44	-33.17	32.04	9999.00	78.40	40.42	73.52	-10.34	-25.91
		72-82	65.49	68.17	35.78	29.23	65.94	69.52	9999.00	9999.00	-119.51	-208.02	
		83-89	-227.22	-171.04	-75.12	-214.82	-189.09	-172.39	-171.04				
22	55	91-101	-172.39	-164.99	-162.34	-185.36	-167.00	-165.66	-201.33	9999.00	9999.00	9999.00	-84.58
		102-112	9999.00	-53.46	9999.00	9999.00	9999.00	23.57	10.20	15.48	9999.00	9999.00	9999.00
		113-120	9999.00	87.62	84.12	81.48	81.48	-40.31	-40.31	9999.00			

APO-L1 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-4, FIRST TEST DAY (1-6-65 AND 1-7-65)
 TEST POINT NO. 2, SOLAR OFF, LUNAR OFF,
 THERMAL JUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
22	58	77.95	57.82	67.73	-29.48	55.31	58.73	82.36	84.12	57.82	89.80	86.74	
		9999.00	9999.00	88.49	32.04	31.10	61.89	84.12	47.79	54.64	87.62	84.56	
22	58	58.49	88.05	9999.00	9999.00	90.23	83.68	87.62	89.36	9999.00	89.80	84.12	
		59.67	85.43	87.18	86.74	90.23	87.62	58.28	75.30	74.86	59.63	3.90	
22	58	81.64	86.74	75.74	55.55	26.01	25.93	80.16	40.88	73.08	-10.84	-27.95	
		2.93	84.99	81.04	88.49	82.36	80.16	77.95	9999.00	9999.00	-120.12	-208.02	
22	58	85.43	83.68	-27.44	-33.57	32.04	66.83	-171.71	9999.00	9999.00	-126.18	9999.00	
		65.49	67.73	35.31	28.76	65.49	69.07	-202.07	9999.00	9999.00	14.52	9999.00	
22	58	-227.22	-171.71	-74.57	-215.58	-188.38	-172.39	-171.71	9999.00	9999.00	-120.72	-208.77	
		-172.39	-163.65	-163.65	-185.36	-167.00	-165.66	-202.07	9999.00	9999.00	9999.00	9999.00	
		-145.43	-54.53	-147.40	9999.00	9999.00	21.67	8.75	10.20	9999.00	9999.00	9999.00	
		9999.00	85.24	88.05	82.36	-40.83	-40.83	-40.83	9999.00	9999.00	9999.00	9999.00	
23	0	77.95	57.82	9999.00	-29.99	54.64	58.73	81.92	83.68	57.82	89.80	86.31	
		9999.00	9999.00	88.49	31.57	31.10	61.89	88.05	47.33	53.73	87.18	83.68	
23	0	88.05	88.05	9999.00	9999.00	82.80	82.80	87.62	88.93	9999.00	9999.00	83.68	
		89.35	9999.00	9999.00	85.31	86.31	89.80	58.28	74.86	74.41	59.63	3.90	
23	0	80.67	85.87	75.74	55.55	56.01	25.46	80.16	40.42	9999.00	-10.84	-26.42	
		2.44	84.56	81.04	80.50	88.49	82.36	77.51	9999.00	9999.00	-120.72	-208.77	
23	0	9999.00	83.24	-27.95	-33.57	31.57	66.38	9999.00	9999.00	9999.00	9999.00	9999.00	
		65.64	67.73	34.84	28.76	65.49	68.62	-171.71	9999.00	9999.00	9999.00	9999.00	
23	0	-227.22	-171.71	-75.12	-215.58	-188.38	-173.07	-171.71	9999.00	9999.00	9999.00	9999.00	
		-172.39	-164.99	-163.65	-185.36	-167.00	-165.66	-202.07	9999.00	9999.00	9999.00	9999.00	
		-153.83	9999.00	9999.00	9999.00	9999.00	21.67	15.96	17.87	9999.00	9999.00	9999.00	
		-129.65	95.50	91.97	83.24	83.24	-41.87	-41.35	9999.00	9999.00	9999.00	9999.00	
23	3	77.95	57.82	9999.00	-30.50	9999.00	58.73	81.48	82.80	57.37	89.36	85.87	
		9999.00	9999.00	88.05	31.57	30.63	62.34	9999.00	46.88	53.28	86.74	83.24	
23	3	87.62	87.18	9999.00	9999.00	89.80	82.36	87.18	88.93	9999.00	9999.00	9999.00	
		88.93	84.99	87.62	85.43	86.31	89.36	57.82	9999.00	9999.00	9999.00	9999.00	
23	3	79.72	85.87	75.74	55.55	56.01	25.46	79.72	9999.00	9999.00	9999.00	9999.00	
		2.44	84.56	80.60	80.50	88.05	81.92	9999.00	9999.00	9999.00	9999.00	9999.00	
23	3	9999.00	83.24	-27.95	-34.10	31.57	9999.00	77.51	40.42	9999.00	-11.33	-26.93	
		65.64	67.73	34.84	28.76	65.49	68.17	9999.00	9999.00	9999.00	-120.72	-208.77	
23	3	-226.43	-171.71	-75.12	-215.58	-188.38	-172.39	-170.36	9999.00	9999.00	9999.00	9999.00	
		-171.71	-164.99	-163.65	-187.57	-167.00	-166.33	-202.07	9999.00	9999.00	9999.00	9999.00	
		-154.43	-57.20	9999.00	9999.00	9999.00	8.75	9999.00	9999.00	9999.00	9999.00	9999.00	
		9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	
23	6	9999.00	57.82	9999.00	-31.91	34.84	58.28	80.60	82.80	57.37	88.49	84.99	
		9999.00	9999.00	88.05	31.10	30.63	60.54	82.36	46.88	53.28	85.87	82.36	
23	6	86.74	86.31	9999.00	9999.00	9999.00	81.48	87.18	88.05	9999.00	9999.00	82.36	
		88.93	83.58	84.12	85.67	88.93	81.48	57.82	74.41	73.97	59.63	3.42	
23	6	78.64	84.99	75.30	55.10	55.55	24.99	79.72	40.42	72.63	-11.33	-26.93	
		1.95	84.12	80.15	87.62	81.92	65.94	77.07	9999.00	9999.00	-120.72	-208.77	
23	6	9999.00	9999.00	-28.45	-34.51	35.78	68.17	9999.00	9999.00	9999.00	9999.00	9999.00	
		64.59	67.28	9999.00	28.29	9999.00	68.17	9999.00	9999.00	9999.00	9999.00	9999.00	
23	6	-227.22	-171.71	-75.68	-215.58	-188.38	-173.07	-170.36	9999.00	9999.00	9999.00	9999.00	
		-171.71	-165.66	-163.65	-187.57	-167.00	-166.33	-202.07	9999.00	9999.00	9999.00	9999.00	
		-153.83	-57.74	9999.00	9999.00	9999.00	18.82	9999.00	9999.00	9999.00	9999.00	9999.00	
		9999.00	104.90	100.61	85.87	85.43	9999.00	-42.92	9999.00	9999.00	9999.00	9999.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-6-65 AND 1-7-65)
 TEST POINT NO. 2, SOLAR OFF, L.H.A.R. OFF,
 THERMAL JUMMY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TEMPERATURES - FAHRENHEIT

TIME	C-DAVN=LS	76.63	56.92	63.24	-32.09	33.44	57.82	9999.00	81.92	56.92	87.18	84.12
23 18	2- 12	9999.00	9999.00	86.05	30.63	29.70	61.44	80.16	53.73	52.82	84.99	80.60
23 18	13- 23	54.99	84.56	9999.00	9999.00	83.68	79.72	87.62	9999.00	9999.00	9999.00	80.16
23 18	24- 29	57.13	81.48	83.64	81.05	85.43	88.05	57.37	9999.00	73.52	59.18	9999.00
23 18	31- 41	76.19	83.58	74.86	54.44	54.64	24.04	78.84	9999.00	9999.00	9999.00	9999.00
23 18	42- 52	1.47	9999.00	79.29	79.28	86.31	80.60	75.74	40.42	71.30	9999.00	-27.95
23 18	53- 59	9999.00	81.92	-29.43	-35.44	9999.00	64.59	9999.00	9999.00	-186.25	-121.93	-208.77
23 18	71- 71	53.69	65.38	32.93	27.82	64.59	65.04	9999.00	9999.00	9999.00	9999.00	9999.00
23 18	72- 82	-228.01	-172.39	-76.23	-215.36	-189.09	-13.07	-1/1.04	9999.00	-183.43	-72.38	9999.00
23 18	83- 89	-171.71	-162.56	-164.33	-187.67	-167.67	-167.60	-202.07	9999.00	9999.00	9999.00	9999.00
23 18	91-101	-151.69	-56.13	-148.63	9999.00	9999.00	18.82	13.56	11.64	9999.00	7.78	9999.00
23 18	102-112	-95.33	114.56	9999.00	102.76	88.49	-45.54	-45.54	9999.00	9999.00	9999.00	9999.00
23 18	113-120	9999.00	56.46	60.99	-33.07	32.51	57.37	77.95	81.04	56.01	9999.00	83.68
23 28	2- 12	9999.00	9999.00	9999.00	30.63	29.23	60.99	78.40	45.04	51.91	9999.00	79.28
23 28	13- 23	84.12	83.58	9999.00	9999.00	82.36	77.95	88.05	85.87	9999.00	86.31	78.40
23 28	24- 29	86.31	73.40	81.04	79.44	85.43	87.18	56.46	73.08	72.63	59.63	1.96
23 28	31- 41	74.55	83.24	73.97	54.19	53.73	23.57	77.95	9999.00	9999.00	9999.00	9999.00
23 28	42- 52	0.49	82.30	78.84	79.44	85.43	80.16	40.88	40.88	69.96	-12.33	-27.95
23 28	53- 59	9999.00	98.46	-30.50	-35.16	30.17	63.24	9999.00	9999.00	9999.00	-122.54	-209.52
23 28	71- 71	62.79	62.49	32.04	27.35	9999.00	65.94	9999.00	9999.00	9999.00	9999.00	9999.00
23 28	72- 82	-228.01	-173.75	-78.99	9999.00	-189.80	-1/5.12	-172.39	9999.00	-148.04	-67.49	9999.00
23 28	83- 89	-173.75	-167.00	-164.99	-189.09	-169.01	-168.34	-202.81	9999.00	9999.00	9999.00	9999.00
23 28	91-101	-151.24	-52.50	9999.00	9999.00	9999.00	17.87	8.27	11.64	9999.00	5.36	9999.00
23 28	102-112	9999.00	114.24	192.73	91.04	90.23	-48.17	-48.17	9999.00	9999.00	9999.00	9999.00
23 40	2- 12	73.52	55.55	60.04	-35.64	32.51	55.55	77.95	78.40	55.10	86.31	81.92
23 40	13- 23	9999.00	75.94	86.31	27.42	27.35	59.63	77.51	45.96	50.54	81.92	77.95
23 40	24- 29	82.05	81.92	9999.00	73.97	86.74	77.51	86.74	86.74	9999.00	86.74	77.95
23 40	31- 41	86.74	77.95	77.95	77.95	66.74	86.74	55.55	73.08	73.08	60.08	-0.49
23 40	42- 52	73.52	81.92	73.03	51.45	51.45	23.09	77.95	9999.00	9999.00	9999.00	9999.00
23 40	53- 59	-1.45	81.92	77.51	77.51	83.24	77.95	9999.00	9999.00	9999.00	9999.00	9999.00
23 40	51- 71	81.92	77.95	-31.01	-35.68	27.35	59.63	73.08	41.35	68.62	-11.33	-31.01
23 40	72- 82	60.04	64.14	28.29	27.35	64.14	64.14	9999.00	9999.00	-151.24	-120.12	-206.53
23 40	83- 89	-229.67	-175.49	-79.55	-213.60	-191.96	-177.87	-176.49	9999.00	-132.95	-68.58	-74.57
23 40	91-101	-177.13	-162.58	-164.33	-191.76	-171.04	-170.36	-205.04	9999.00	9999.00	-1.46	9999.00
23 40	102-112	-144.85	-51.34	145.49	9999.00	9999.00	15.96	17.39	18.34	9999.00	-1.46	9999.00
23 40	113-120	-108.19	107.98	108.31	90.67	91.10	-51.87	-47.64	9999.00	9999.00	9999.00	9999.00
24 0	2- 12	9999.00	55.10	55.10	-55.68	32.04	55.10	77.51	77.51	55.10	81.92	81.92
24 0	13- 23	9999.00	77.51	86.31	27.35	27.35	59.63	73.08	41.81	55.10	81.92	73.52
24 0	24- 29	79.72	81.92	9999.00	73.52	86.74	73.08	86.31	81.92	9999.00	82.80	73.52
24 0	31- 41	82.55	73.97	73.97	73.97	82.36	86.31	55.10	73.08	73.08	59.63	-1.46
24 0	42- 52	69.07	77.95	73.52	50.54	50.54	18.34	77.51	9999.00	9999.00	9999.00	9999.00
24 0	53- 59	-1.45	75.84	77.51	81.92	81.92	77.51	73.08	41.35	64.14	-15.82	-31.01
24 0	51- 71	51.92	77.51	-31.53	-41.87	27.35	59.63	9999.00	9999.00	-157.08	-125.57	-213.30
24 0	72- 82	59.63	60.54	27.85	27.35	64.14	64.14	9999.00	9999.00	9999.00	9999.00	9999.00
24 0	83- 89	-229.60	-177.87	-79.55	-214.76	-191.96	-177.87	-177.87	9999.00	-139.17	-68.58	-74.57
24 0	91-101	-177.87	-171.04	-164.33	-191.76	-171.04	-171.04	-205.78	9999.00	9999.00	-11.33	9999.00
24 0	102-112	-144.85	-52.93	-164.33	9999.00	9999.00	12.60	7.78	7.78	9999.00	-11.33	9999.00
24 0	113-120	-108.19	99.32	99.75	85.31	90.23	-52.93	-52.93	9999.00	9999.00	9999.00	9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, FIRST TEST DAY (1-6-65 AND 1-7-65)
 TEST POINT NO. 2, SOLAR OFF, L INAR OFF,
 THERMAL JUMMY HEATERS OFF

TIME CHANNELS	TEMPERATURES - FAHRENHEIT																
0 20	9999.01	55.10	55.10	-35.48	27.35	55.10	73.08	73.97	51.00	81.92	77.51	77.51	73.52	73.08	41.35	81.92	73.08
13-23	9999.01	73.08	86.31	27.35	59.63	59.63	73.08	41.35	50.54	77.51	73.52	73.52	73.52	73.08	41.35	77.51	73.08
24-29	77.95	77.51	9999.00	69.07	82.80	73.08	81.92	81.92	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
0 20	82.35	73.08	73.09	69.52	82.36	81.92	81.92	81.92	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
42-52	69.07	77.51	50.54	50.54	50.54	77.51	73.08	73.08	73.08	77.51	73.08	73.08	73.08	73.08	73.08	73.08	73.08
53-59	-1.45	77.51	73.97	77.51	81.92	77.51	73.08	37.64	64.14	-16.32	-31.53	-31.53	-31.53	73.08	-126.18	-213.30	-213.30
0 20	77.95	77.51	-36.69	-41.87	27.35	59.63	9999.00	9999.00	64.14	-16.32	-31.53	-31.53	-31.53	73.08	-126.18	-213.30	-213.30
72-82	59.63	59.63	27.35	23.57	60.54	59.63	9999.00	9999.00	64.14	-16.32	-31.53	-31.53	-31.53	73.08	-126.18	-213.30	-213.30
93-99	-229.60	-177.87	-82.90	-220.97	-191.96	-177.87	-177.87	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
0 20	-377.87	-171.04	-169.69	-191.96	-171.04	-171.04	-205.78	9999.00	-138.55	-58.28	-63.74	-63.74	-63.74	9999.00	-63.74	9999.00	9999.00
102-112	-132.95	-52.93	-158.39	9999.00	9999.00	17.39	8.27	12.60	9999.00	-6.38	9999.00	9999.00	9999.00	9999.00	-6.38	9999.00	9999.00
113-120	-108.19	104.04	104.04	86.74	86.74	-58.28	-58.28	9999.00	-58.28	-58.28	-58.28	-58.28	-58.28	9999.00	-58.28	9999.00	9999.00
0 40	69.07	9999.00	50.54	-41.35	27.35	50.54	68.62	73.08	50.54	-14.82	77.51	77.51	77.51	73.08	73.08	77.51	73.52
13-23	9999.00	69.52	86.31	27.35	22.62	56.46	69.07	41.35	50.54	75.74	73.52	73.52	73.52	73.08	41.35	77.51	73.08
24-29	76.19	77.51	9999.00	69.07	82.36	69.07	81.92	81.92	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
0 40	82.35	77.51	69.07	69.52	82.36	81.92	81.92	81.92	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
42-52	65.04	77.51	68.62	50.54	46.42	17.87	50.54	68.62	69.07	55.55	55.55	55.55	55.55	73.08	68.62	69.07	69.07
53-59	-6.39	77.51	73.08	77.51	81.92	73.08	73.08	37.64	59.63	-16.32	-31.53	-31.53	-31.53	73.08	-126.18	-213.30	-213.30
0 40	77.51	77.51	-36.69	-45.01	27.35	55.10	69.52	9999.00	-157.73	-126.18	-213.30	-213.30	-213.30	73.08	-126.18	-213.30	-213.30
72-82	55.55	59.63	23.09	23.09	59.63	59.63	9999.00	9999.00	59.63	-16.32	-31.53	-31.53	-31.53	73.08	-126.18	-213.30	-213.30
93-99	-229.60	-177.87	-84.02	-221.74	-191.96	-177.87	-177.87	9999.00	-126.18	-63.13	-69.12	-69.12	-69.12	9999.00	-63.13	9999.00	9999.00
0 40	-177.87	-171.04	-170.35	-191.96	-174.44	-171.04	-205.78	9999.00	-126.18	-63.13	-69.12	-69.12	-69.12	9999.00	-63.13	9999.00	9999.00
102-112	-139.17	-52.93	-151.89	9999.00	9999.00	22.15	7.78	7.78	9999.00	-6.38	9999.00	9999.00	9999.00	9999.00	-6.38	9999.00	9999.00
113-120	-108.19	107.89	107.89	86.74	86.74	-63.74	-63.74	9999.00	-63.74	-63.74	-63.74	-63.74	-63.74	9999.00	-63.74	9999.00	9999.00
1 0	65.04	50.54	50.54	-41.87	23.57	50.54	68.62	73.08	50.54	77.51	73.97	73.97	73.97	73.08	73.08	77.51	73.08
13-23	9999.00	68.52	81.92	23.57	22.62	55.10	68.62	41.35	50.54	74.41	69.52	69.52	69.52	73.08	41.35	77.51	73.08
24-29	74.41	73.08	9999.00	69.07	82.36	68.62	81.92	81.92	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
1 0	78.84	69.07	64.14	64.14	77.95	78.84	81.92	77.51	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
42-52	64.59	73.08	64.14	46.38	45.96	13.08	50.54	68.62	68.62	55.10	55.10	55.10	55.10	73.08	68.62	69.07	69.07
53-59	-6.53	77.51	73.08	73.97	81.92	73.08	73.08	36.71	59.63	-16.32	-31.53	-31.53	-31.53	73.08	-126.18	-213.30	-213.30
1 0	77.51	73.52	-40.83	-47.11	24.51	55.10	68.62	9999.00	-157.08	-120.12	-213.30	-213.30	-213.30	73.08	-120.12	-213.30	-213.30
72-82	55.10	52.10	22.62	22.62	59.63	56.01	9999.00	9999.00	59.63	-16.32	-31.53	-31.53	-31.53	73.08	-120.12	-213.30	-213.30
93-99	-229.60	-175.49	-84.02	-221.74	-191.96	-177.87	-177.87	9999.00	-132.95	-63.13	-69.58	-69.58	-69.58	9999.00	-63.13	9999.00	9999.00
1 0	-184.13	-171.04	-170.35	-191.96	-164.33	-171.04	-205.78	9999.00	-132.95	-63.13	-69.58	-69.58	-69.58	9999.00	-63.13	9999.00	9999.00
102-112	-138.55	-52.93	-164.33	9999.00	9999.00	18.82	13.08	12.60	9999.00	-6.38	9999.00	9999.00	9999.00	9999.00	-6.38	9999.00	9999.00
113-120	-120.12	103.61	104.04	84.12	86.74	-63.74	-63.74	9999.00	-63.74	-63.74	-63.74	-63.74	-63.74	9999.00	-63.74	9999.00	9999.00
1 20	64.59	50.54	46.42	-41.87	22.62	50.54	68.62	73.08	50.54	77.51	73.08	73.08	73.08	73.08	73.08	77.51	73.08
13-23	9999.00	68.62	81.92	22.62	22.62	55.10	65.49	41.35	50.54	73.08	69.07	69.07	69.07	73.08	41.35	77.51	73.08
24-29	73.52	73.08	9999.00	69.07	82.36	64.59	81.92	81.92	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
1 20	77.95	69.07	64.14	64.14	77.95	77.51	81.92	77.51	9999.00	81.92	73.52	73.52	73.52	73.08	81.92	59.63	-1.46
42-52	64.59	73.08	64.14	45.96	45.96	13.08	50.54	68.62	68.62	55.10	55.10	55.10	55.10	73.08	68.62	69.07	69.07
53-59	-6.53	74.86	73.08	73.97	81.92	73.08	73.08	36.71	55.55	-16.32	-36.68	-36.68	-36.68	73.08	-120.12	-213.30	-213.30
1 20	77.51	73.08	-41.87	-47.11	24.04	55.10	68.62	9999.00	-157.08	-120.12	-213.30	-213.30	-213.30	73.08	-120.12	-213.30	-213.30
72-82	55.10	55.10	22.62	22.62	59.63	55.10	9999.00	9999.00	55.55	-16.32	-36.68	-36.68	-36.68	73.08	-120.12	-213.30	-213.30
93-99	-229.60	-175.49	-85.14	-221.74	-191.96	-177.87	-177.87	9999.00	-126.18	-63.13	-69.58	-69.58	-69.58	9999.00	-63.13	9999.00	9999.00
1 20	-184.84	-171.04	-171.04	-191.96	-164.33	-171.04	-206.53	9999.00	-126.18	-63.13	-69.58	-69.58	-69.58	9999.00	-63.13	9999.00	9999.00
102-112	-132.95	-47.64	-151.89	9999.00	9999.00	17.87	13.08	13.08	9999.00	-1.46	9999.00	9999.00	9999.00	9999.00	-1.46	9999.00	9999.00
113-120	-108.19	103.61	104.04	82.90	86.74	-69.12	-69.12	9999.00	-69.12	-69.12	-69.12	-69.12	-69.12	9999.00	-69.12	9999.00	9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-6-65 AND 1-7-65)
 TEST POINT NO. 2, SOLAR OFF, LUNAR OFF,
 THERMAL JUMMY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

1	40	2-12	9999.00	50.54	45.96	-45.59	22.62	46.42	64.14	68.62	45.96	77.51	73.08
		13-23	9999.00	68.52	81.92	22.62	22.62	55.10	64.14	41.35	46.42	73.08	65.04
1	40	24-29	73.52	69.96	9999.00	69.07	82.36	64.59					
		31-41	77.95	64.14	64.14	77.51	77.51	77.51	77.51	77.51	9999.00	77.51	65.04
		42-52	64.59	73.08	60.08	45.96	42.27	13.08	45.96	64.14	68.62	55.10	-6.38
1	40	53-59	-6.38	73.52	73.08	73.08	77.51	69.96	69.07				
		61-71	73.52	73.08	-41.87	-49.75	9999.00	51.00	68.62	36.71	55.10	-20.34	-36.68
		72-82	51.45	55.10	18.34	22.62	55.55	55.10	9999.00	9999.00	-157.73	-120.12	-213.30
		83-89	-229.60	-175.12	-85.14	-221.74	-191.96	-171.04	-184.84				
1	40	91-101	-184.84	-171.04	-171.04	-191.96	-167.67	-171.04	-206.53	9999.00	-126.18	-52.93	-58.28
		102-112	-120.72	-47.54	-144.85	9999.00	9999.00	22.62	8.27	7.78	9999.00	3.42	9999.00
		113-120	9999.00	9999.00	103.19	81.92	85.87	-69.12	-73.48	9999.00			
2	0	2-12	9999.00	46.42	45.96	-47.11	19.30	45.96	64.14	68.62	45.96	73.08	73.08
		13-23	9999.00	64.14	81.92	22.62	17.87	55.10	64.14	37.17	46.42	73.08	64.59
		24-29	73.52	68.52	9999.00	65.49	77.95	64.14					
2	0	31-41	78.40	64.59	61.89	64.14	73.97	74.41	77.51	73.97	9999.00	77.51	64.59
		42-52	60.54	69.07	59.63	45.96	41.35	13.08	45.96	64.14	64.14	55.10	-8.36
		53-59	-11.33	73.08	68.62	73.08	77.51	68.62	68.62				
2	0	61-71	73.08	69.52	-41.87	-51.54	22.62	50.54	68.62	36.71	55.10	-20.85	-36.68
		72-82	50.54	50.54	17.87	22.62	55.10	55.10	9999.00	9999.00	-157.73	-120.12	-213.30
		83-89	-229.60	-176.49	-85.14	-221.74	-191.96	-176.49	-184.84				
2	0	91-101	-184.84	-171.04	-171.04	-199.39	-164.33	-171.04	-205.78	9999.00	-126.18	-52.93	-63.13
		102-112	-126.18	-47.54	-138.55	9999.00	9999.00	22.62	8.27	12.60	9999.00	-1.96	9999.00
		113-120	-102.33	9999.00	99.75	81.92	82.36	-74.57	-74.57	9999.00			
2	20	2-12	59.63	45.96	45.96	-47.11	17.87	45.96	59.63	65.94	45.96	73.08	69.07
		13-23	9999.00	64.59	77.51	22.62	17.87	51.91	61.44	36.71	45.96	68.62	64.59
		24-29	69.07	68.52	9999.00	65.49	77.95	64.14					
2	20	31-41	74.41	64.59	61.89	64.14	73.52	73.52	77.51	73.08	9999.00	77.51	64.59
		42-52	60.08	68.52	59.63	45.96	41.35	8.75	45.96	60.08	64.14	51.45	-6.38
		53-59	-11.33	73.08	68.62	73.08	77.51	68.62	68.62				
2	20	61-71	73.08	68.62	-41.87	-52.40	22.62	47.33	64.14	32.04	51.00	-21.35	-36.16
		72-82	50.54	50.54	17.87	22.62	55.10	50.54	9999.00	9999.00	-157.73	-120.12	-213.30
		83-89	-229.60	-177.87	-85.14	-221.74	-191.96	-177.18	-184.84				
2	20	91-101	-184.84	-171.04	-171.04	-199.39	-169.01	-171.04	-206.53	9999.00	-126.18	-62.59	-63.74
		102-112	-125.57	-47.54	-138.55	9999.00	9999.00	17.87	17.87	22.15	9999.00	-1.46	9999.00
		113-120	-102.91	99.32	99.75	81.92	82.36	-79.55	-79.55	9999.00			
2	30	2-12	59.63	45.96	42.27	-47.11	17.87	45.96	59.63	65.04	45.96	73.08	68.62
		13-23	9999.00	64.59	77.51	22.62	17.87	51.45	60.08	36.71	45.96	68.62	64.59
		24-29	69.07	68.52	9999.00	65.04	77.95	64.14					
2	30	31-41	73.97	61.44	61.44	64.14	73.52	73.08	77.51	73.08	9999.00	77.51	64.59
		42-52	60.08	68.52	59.63	45.96	41.35	8.27	45.96	59.63	64.14	51.00	-6.38
		53-59	-11.33	73.08	68.62	68.62	73.97	68.62	68.62				
2	30	61-71	73.08	68.62	-41.87	-52.40	22.62	46.88	64.59	32.04	50.54	-21.35	-36.68
		72-82	50.54	50.54	17.87	18.42	55.10	50.54	9999.00	9999.00	-151.24	-120.12	-205.78
		83-89	-229.60	-176.49	-77.88	-221.74	-184.13	-157.73	-184.84				
2	30	91-101	-184.84	-170.36	-157.73	-197.66	-167.67	-171.04	-191.24	9999.00	-120.12	-51.87	-58.28
		102-112	-119.51	-47.54	-145.49	9999.00	9999.00	13.08	13.08	8.27	9999.00	2.93	9999.00
		113-120	-113.52	9999.00	99.75	81.92	82.36	-80.11	-80.11	9999.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																
2	30	59.63	45.96	42.27	-47.11	17.87	45.96	59.63	65.04	45.96	73.08	68.62	68.62	68.62	68.62	68.62	68.62	68.62
	13-23	-0.00	64.59	77.51	22.62	17.87	51.45	60.08	36.71	45.96	68.62	68.62	68.62	68.62	68.62	68.62	68.62	68.62
2	30	69.07	68.62	-0.00	65.04	77.95	73.08	77.51	73.08	-0.00	77.51	64.59	64.59	64.59	64.59	64.59	64.59	64.59
	24-29	73.97	61.44	61.44	64.14	73.52	73.08	45.96	59.63	64.14	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00
2	30	60.08	68.62	59.63	45.96	41.35	8.27	45.96	73.08	-0.00	77.51	64.59	64.59	64.59	64.59	64.59	64.59	64.59
	31-41	-11.33	73.08	58.62	62.40	22.62	68.62	68.62	32.04	50.54	-21.35	-36.68	-36.68	-36.68	-36.68	-36.68	-36.68	-36.68
2	30	73.08	68.62	-41.87	-52.40	22.62	46.88	64.59	-0.00	-151.24	-120.12	-205.78	-205.78	-205.78	-205.78	-205.78	-205.78	-205.78
	42-52	50.54	50.54	17.87	18.82	55.10	50.54	-0.00	-0.00	-120.12	-51.87	-58.28	-58.28	-58.28	-58.28	-58.28	-58.28	-58.28
2	30	-229.60	-176.49	-77.88	-221.74	-184.13	-157.73	-184.84	-0.00	-0.00	2.93	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	53-59	-184.84	-170.36	-157.73	-197.46	-167.67	-171.04	-191.24	8.27	-0.00	2.93	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	30	-119.51	-47.64	-145.49	-0.00	-0.00	13.08	13.08	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	81-811	-113.52	-0.00	99.75	81.92	82.36	-80.11	-80.11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	30	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	32	60.08	46.42	42.73	-46.59	18.34	46.42	60.08	65.49	42.73	73.52	69.07	69.07	69.07	69.07	69.07	69.07	69.07
	13-23	-0.00	65.04	77.95	19.30	18.82	51.45	60.54	37.17	46.42	69.07	64.59	64.59	64.59	64.59	64.59	64.59	64.59
2	32	69.07	69.07	-0.00	65.04	73.52	73.52	77.95	73.52	-0.00	77.95	64.59	64.59	64.59	64.59	64.59	64.59	64.59
	24-29	73.52	61.44	64.59	64.59	73.52	8.75	46.42	60.08	64.59	51.45	-9.35	-9.35	-9.35	-9.35	-9.35	-9.35	-9.35
2	32	60.54	69.07	60.08	46.42	41.81	8.75	69.07	73.52	-0.00	77.95	64.59	64.59	64.59	64.59	64.59	64.59	64.59
	31-41	-10.84	71.30	69.07	69.96	74.41	69.07	69.07	60.08	64.59	51.45	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16
2	32	73.52	69.07	-41.35	-51.87	23.09	51.00	64.59	32.51	51.00	-20.34	-184.13	-184.13	-184.13	-184.13	-184.13	-184.13	-184.13
	42-52	-10.84	69.07	18.34	23.09	55.55	50.54	-0.00	-0.00	-143.58	-119.51	-184.13	-184.13	-184.13	-184.13	-184.13	-184.13	-184.13
2	32	51.00	51.00	66.42	-220.92	-169.01	-142.95	-183.43	-0.00	-0.00	-46.06	-51.87	-51.87	-51.87	-51.87	-51.87	-51.87	-51.87
	53-59	-228.80	-170.36	-66.42	-220.92	-163.00	-169.01	-170.36	-0.00	-107.60	-46.06	-51.87	-51.87	-51.87	-51.87	-51.87	-51.87	-51.87
2	32	-184.13	-163.66	-137.92	-190.57	-163.00	-169.01	-170.36	-0.00	-0.00	3.42	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	61-71	-125.57	-47.11	-132.33	-0.00	-0.00	13.08	15.00	13.08	-0.00	3.42	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	32	-107.60	99.75	99.32	82.36	81.92	-79.55	-79.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	72-82	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	34	60.08	46.42	42.73	-46.59	18.34	46.42	60.08	69.07	42.73	73.52	69.07	69.07	69.07	69.07	69.07	69.07	69.07
	13-23	-0.00	64.59	77.95	19.30	18.34	51.45	60.08	37.64	46.42	69.07	64.59	64.59	64.59	64.59	64.59	64.59	64.59
2	34	69.07	69.07	-0.00	64.59	77.95	73.52	77.95	73.97	-0.00	77.95	61.44	61.44	61.44	61.44	61.44	61.44	61.44
	24-29	73.52	60.99	64.59	64.59	73.52	8.75	43.19	60.08	64.59	51.00	-5.89	-5.89	-5.89	-5.89	-5.89	-5.89	-5.89
2	34	-10.84	73.52	69.07	69.96	74.41	69.07	69.07	60.08	64.59	51.00	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16
	31-41	-10.84	73.52	69.07	69.96	74.41	69.07	69.07	60.08	64.59	51.00	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16
2	34	73.52	69.07	-41.35	-51.87	23.09	47.33	64.59	32.51	51.00	-20.85	-163.66	-163.66	-163.66	-163.66	-163.66	-163.66	-163.66
	42-52	-10.84	73.52	69.07	69.96	74.41	69.07	69.07	60.08	64.59	51.00	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16
2	34	73.52	69.07	-41.35	-51.87	23.09	47.33	64.59	32.51	51.00	-20.85	-163.66	-163.66	-163.66	-163.66	-163.66	-163.66	-163.66
	53-59	-10.84	73.52	69.07	69.96	74.41	69.07	69.07	60.08	64.59	51.00	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16	-36.16
2	34	73.52	69.07	-41.35	-51.87	23.09	47.33	64.59	32.51	51.00	-20.85	-163.66	-163.66	-163.66	-163.66	-163.66	-163.66	-163.66
	61-71	-125.57	-47.11	-132.33	-0.00	-0.00	13.08	15.00	17.87	-0.00	-41.35	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11
2	34	-107.60	99.75	99.32	82.36	81.92	-79.55	-79.55	17.87	-0.00	-41.35	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11
	72-82	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	17.87	-0.00	-41.35	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11
2	34	-125.57	-47.11	-126.16	-0.00	-0.00	13.08	14.52	17.87	-0.00	-41.35	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11
	81-811	-102.33	99.75	99.32	79.28	81.92	-79.55	-79.55	17.87	-0.00	-41.35	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11	-47.11
2	34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
2 36	2-12	60.08	46.42	42.73	-46.59	18.34	46.42	60.08	65.04	41.81	73.52	69.52	69.52	69.52	69.52	69.52	69.52
	13-23	-0.00	64.59	77.95	23.09	18.34	51.45	60.08	38.10	46.42	69.52	69.52	64.59	64.59	64.59	64.59	64.59
	24-29	69.07	69.07	-0.00	64.59	77.95	64.59	77.95	73.97	-0.00	77.95	77.95	64.59	64.59	64.59	64.59	64.59
2 36	31-41	73.52	60.99	65.04	64.59	73.52	73.52	77.95	60.08	64.59	77.95	77.95	64.59	64.59	64.59	64.59	64.59
	42-52	64.59	69.07	60.08	46.42	41.81	41.81	46.42	60.08	64.59	64.59	64.59	64.59	64.59	64.59	64.59	64.59
	53-59	-10.84	73.52	69.07	69.52	74.41	69.07	69.52	69.07	64.59	69.07	69.07	64.59	64.59	64.59	64.59	64.59
2 36	61-71	73.52	69.07	-41.35	-51.87	23.09	46.88	65.04	32.51	51.00	-20.85	-20.85	-40.31	-40.31	-40.31	-40.31	-40.31
	72-82	51.00	51.00	18.34	23.09	55.55	51.00	-0.00	-0.00	-118.91	-119.51	-119.51	-143.58	-143.58	-143.58	-143.58	-143.58
	83-89	-228.80	-163.66	-31.01	-220.97	-131.09	-101.17	-177.18	-0.00	-62.59	-31.53	-31.53	-46.59	-46.59	-46.59	-46.59	-46.59
2 36	91-101	-170.36	-144.22	-78.99	-184.13	-156.43	-163.00	-107.60	-0.00	-0.00	-6.38	-6.38	-0.00	-0.00	-0.00	-0.00	-0.00
	102-112	-125.57	-47.11	-138.55	-0.00	-0.00	-0.00	15.00	13.08	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	-101.75	99.75	99.32	82.36	81.92	-79.55	-79.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2 38	2-12	60.08	46.88	42.73	-46.59	18.34	46.42	60.08	65.04	42.27	73.52	69.07	69.52	69.52	69.52	69.52	69.52
	13-23	-0.00	65.04	77.95	19.30	18.34	51.45	60.08	41.81	47.33	69.07	69.07	64.59	64.59	64.59	64.59	64.59
	24-29	69.07	69.07	-0.00	65.04	77.95	64.59	77.95	73.52	-0.00	74.41	74.41	64.59	64.59	64.59	64.59	64.59
2 38	31-41	73.52	64.59	64.59	64.59	73.52	73.52	77.95	60.08	64.59	77.95	77.95	64.59	64.59	64.59	64.59	64.59
	42-52	64.59	69.07	60.08	46.42	41.81	41.81	46.42	60.08	64.59	64.59	64.59	64.59	64.59	64.59	64.59	64.59
	53-59	-10.84	73.52	69.07	69.52	73.97	69.07	69.52	69.07	64.59	69.07	69.07	64.59	64.59	64.59	64.59	64.59
2 38	61-71	73.52	69.07	-41.35	-51.87	23.09	46.42	64.59	32.51	51.00	-20.85	-20.85	-36.16	-36.16	-36.16	-36.16	-36.16
	72-82	51.00	51.00	18.34	23.09	55.55	51.00	-0.00	-0.00	-101.75	-119.51	-119.51	-119.51	-119.51	-119.51	-119.51	-119.51
	83-89	-228.01	-157.08	-10.84	-220.97	-107.60	-71.84	-170.36	-0.00	-31.01	-11.33	-11.33	-46.59	-46.59	-46.59	-46.59	-46.59
2 38	91-101	-170.36	-125.57	-46.59	-183.43	-150.60	-157.08	-66.96	-0.00	-0.00	-6.38	-6.38	-0.00	-0.00	-0.00	-0.00	-0.00
	102-112	-125.57	-47.11	-131.71	-0.00	-0.00	15.00	16.43	14.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	-95.96	99.75	99.32	78.84	81.92	-79.55	-79.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2 40	2-12	60.08	46.42	42.73	-46.59	18.34	46.42	60.08	65.04	41.81	73.52	69.52	69.52	69.52	69.52	69.52	69.52
	13-23	-0.00	64.59	77.95	19.30	18.34	51.91	60.08	41.81	51.00	69.52	69.52	64.59	64.59	64.59	64.59	64.59
	24-29	69.07	69.07	-0.00	64.59	77.95	64.59	77.95	73.52	-0.00	74.41	74.41	64.59	64.59	64.59	64.59	64.59
2 40	31-41	73.52	61.44	64.59	64.59	73.52	73.52	77.95	60.08	64.59	77.95	77.95	64.59	64.59	64.59	64.59	64.59
	42-52	69.07	69.07	60.08	46.42	41.81	41.81	46.42	60.08	64.59	64.59	64.59	64.59	64.59	64.59	64.59	64.59
	53-59	-10.84	73.52	69.07	69.52	73.97	69.07	69.52	69.07	64.59	69.07	69.07	64.59	64.59	64.59	64.59	64.59
2 40	61-71	73.52	69.07	-41.35	-51.34	23.09	46.88	65.04	32.98	51.00	-20.85	-20.85	-40.31	-40.31	-40.31	-40.31	-40.31
	72-82	51.00	51.00	18.34	23.09	55.55	51.00	-0.00	-0.00	-51.87	-51.87	-51.87	-46.59	-46.59	-46.59	-46.59	-46.59
	83-89	-228.80	-143.58	-0.96	-220.97	-157.82	-176.49	-157.82	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2 40	91-101	-163.66	-89.10	-29.99	-176.49	-137.30	-149.96	-43.19	-0.00	-0.00	18.34	18.34	-0.00	-0.00	-0.00	-0.00	-0.00
	102-112	-119.51	-46.06	-126.18	-0.00	-0.00	-0.00	14.52	17.87	-0.00	-6.38	-6.38	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	-102.33	99.75	99.32	78.84	81.92	-79.55	-79.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
2	42	60.08	46.42	42.27	46.59	18.34	46.42	60.08	65.04	41.81	73.52	69.07	
	13-23	-0.00	64.59	77.95	19.30	18.34	51.45	60.08	45.96	51.00	69.52	64.59	
2	42	69.07	69.07	-0.00	65.04	77.95	64.59	78.40	73.52	-0.00	73.97	60.99	
	31-41	73.52	60.54	64.59	64.59	73.52	73.97	42.73	60.08	64.59	51.00	-9.84	
	42-52	69.07	69.07	60.08	46.42	41.81	8.75	69.07	69.07	69.07	69.07	69.07	
2	42	-10.84	73.52	69.07	69.52	23.57	46.42	64.59	32.98	51.00	-20.85	-39.79	
	61-71	73.52	69.07	-41.35	-51.34	51.91	51.00	-0.00	-0.00	-15.32	-119.51	-14.32	
	72-82	51.00	51.00	14.04	27.82	27.82	28.29	-157.08	-0.00	50.54	27.35	-46.59	
2	42	-228.01	-124.97	55.55	-219.42	27.82	28.29	83.24	-0.00	50.54	27.35	-46.59	
	83-89	-150.60	-51.87	37.64	-169.68	-125.57	-131.71	14.04	13.08	-0.00	-6.38	-0.00	
	102-112	-125.57	-47.11	-131.71	-0.00	-0.00	14.52	-79.55	-0.00	-0.00	-0.00	-0.00	
	113-119	-90.24	99.75	99.32	78.84	81.92	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
2	44	60.08	46.88	42.73	46.59	18.34	46.42	60.08	65.04	41.81	73.52	69.52	
	13-23	-0.00	64.59	77.95	18.82	18.82	51.45	60.08	46.42	55.55	69.07	60.08	
2	44	69.52	69.07	-0.00	65.04	77.95	64.59	77.95	73.52	-0.00	74.41	64.59	
	31-41	73.52	64.59	61.44	64.59	73.52	73.52	42.73	60.08	64.59	51.00	-9.84	
	42-52	69.52	69.07	60.08	46.42	41.81	8.75	69.07	69.07	69.07	69.07	69.07	
2	44	-10.84	73.52	69.07	69.96	27.82	46.42	65.49	37.17	51.00	-20.85	-39.79	
	53-59	73.52	69.07	-41.35	-46.59	51.91	51.00	-0.00	-0.00	3.90	-118.91	-5.89	
	61-71	51.00	55.55	13.56	27.82	41.81	37.64	-150.60	-0.00	55.10	32.04	-46.59	
2	44	-227.22	-113.52	77.95	-213.30	-125.57	92.84	17.87	22.62	-0.00	7.30	-0.00	
	72-82	51.00	55.55	13.56	27.82	41.81	37.64	-150.60	-0.00	-0.00	-0.00	-0.00	
	83-89	-137.92	-31.01	51.45	-163.00	-0.00	13.08	17.87	-0.00	-0.00	-0.00	-0.00	
	102-112	-119.51	-45.54	-138.55	-0.00	-0.00	13.08	-79.55	-0.00	-0.00	-0.00	-0.00	
	113-119	-85.14	99.75	99.32	78.84	81.92	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
2	46	60.08	46.88	42.73	46.59	18.34	42.73	60.08	64.59	41.81	73.52	69.52	
	13-23	-0.00	64.59	77.95	19.30	18.34	51.91	60.08	46.42	55.55	69.52	64.59	
2	46	69.07	69.07	-0.00	64.59	77.95	64.59	77.95	73.52	-0.00	73.97	60.99	
	24-29	73.52	60.08	64.59	64.59	73.52	73.52	42.73	60.08	64.59	51.00	-9.84	
	31-41	73.52	60.08	64.59	64.59	73.52	73.52	42.73	60.08	64.59	51.00	-9.84	
	42-52	69.07	69.07	60.08	46.42	41.81	8.75	69.07	69.07	69.07	69.07	69.07	
2	46	-10.84	73.52	69.07	73.52	23.57	46.42	69.52	37.17	51.00	-20.85	-39.79	
	53-59	73.52	69.07	-41.35	-46.59	51.91	51.00	-0.00	-0.00	18.82	-118.91	-5.40	
	61-71	51.00	51.00	14.04	27.82	27.82	28.29	-143.58	-0.00	50.08	32.04	-36.16	
2	46	-220.97	-107.60	13.56	32.51	51.45	51.00	96.74	-0.00	50.08	32.04	-36.16	
	72-82	51.00	60.08	13.56	32.51	51.45	51.00	96.74	-0.00	50.08	32.04	-36.16	
	83-89	-220.97	-107.60	91.10	-213.30	46.88	37.17	-143.58	17.87	-0.00	3.42	-0.00	
2	46	-137.30	-25.40	69.07	-157.08	-124.36	-119.51	17.87	17.87	-0.00	3.42	-0.00	
	91-101	137.30	-25.40	69.07	-157.08	-124.36	-119.51	17.87	17.87	-0.00	3.42	-0.00	
	102-112	-119.51	-45.54	-143.58	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	113-119	-84.58	99.75	99.32	78.84	81.92	-74.03	-79.55	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
2	47	2-12	60.08	46.42	42.73	-46.59	18.34	42.73	60.08	64.59	41.81	73.52	69.52	69.52	60.99	60.99	60.99
		13-23	-0.00	65.04	77.95	18.82	18.34	51.00	60.08	46.42	55.55	69.52	69.52	69.52	60.99	60.99	60.99
2	47	24-29	69.07	69.07	-0.00	64.59	77.95	64.59	60.08	73.52	-0.00	73.97	60.54	60.54	60.54	60.54	60.54
		31-41	73.52	-0.00	-0.00	64.59	73.52	73.52	78.40	73.52	-0.00	73.97	60.54	60.54	60.54	60.54	60.54
		42-52	73.52	69.07	60.08	46.42	41.81	8.75	42.27	60.08	64.59	51.00	-10.34	-10.34	-10.34	-10.34	-10.34
2	47	53-59	-10.84	73.52	73.52	73.52	28.29	69.07	69.07	41.81	51.00	-20.85	-36.16	-36.16	-36.16	-36.16	-36.16
		61-71	73.52	69.07	-41.35	41.35	28.29	46.42	73.52	-0.00	23.09	-118.91	-4.90	-4.90	-4.90	-4.90	-4.90
		72-82	47.79	64.59	13.56	32.51	51.00	51.00	-0.00	51.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	-220.97	-107.60	99.75	-213.30	51.00	38.10	-144.22	-0.00	61.44	32.04	-0.00	-0.00	-0.00	-0.00	-0.00
2	47	91-101	-131.71	-20.85	73.52	-150.60	-118.91	-119.51	99.75	-0.00	-0.00	8.27	-0.00	-0.00	-0.00	-0.00	-0.00
		102-112	-119.51	-41.87	-125.57	-0.00	-0.00	22.62	20.25	27.35	-0.00	8.27	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-78.99	99.75	99.32	78.84	81.92	-74.03	-74.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	49	2-12	60.08	46.88	42.73	-46.59	18.34	42.73	60.08	64.59	41.81	73.52	69.52	69.52	60.99	60.99	60.99
		13-23	-0.00	65.04	77.95	18.82	18.34	51.00	60.08	46.42	56.01	69.07	69.07	69.07	60.99	60.99	60.99
2	49	24-29	69.07	69.07	-0.00	64.59	77.95	64.59	60.08	73.52	-0.00	73.52	60.54	60.54	60.54	60.54	60.54
		31-41	73.52	60.08	60.08	64.59	73.52	73.52	74.41	73.52	-0.00	73.52	60.54	60.54	60.54	60.54	60.54
		42-52	73.52	69.07	50.08	46.42	41.81	8.75	42.27	60.08	64.59	51.00	-9.84	-9.84	-9.84	-9.84	-9.84
2	49	53-59	-10.84	73.52	73.52	73.52	32.51	46.42	69.07	46.42	51.00	-24.89	-36.16	-36.16	-36.16	-36.16	-36.16
		61-71	73.52	69.07	-41.35	41.35	32.51	46.42	77.95	-0.00	32.51	-118.91	-0.98	-0.98	-0.98	-0.98	-0.98
		72-82	51.00	69.07	13.56	37.17	51.00	51.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	49	83-89	-220.97	-101.75	108.31	-213.30	51.00	41.81	-137.30	-0.00	59.63	32.98	-0.00	-0.00	-0.00	-0.00	-0.00
		91-101	-130.48	-15.82	77.95	-150.60	-119.51	-118.91	99.75	-0.00	-0.00	8.27	-0.00	-0.00	-0.00	-0.00	-0.00
		102-112	-119.51	-47.11	-126.18	-0.00	-0.00	22.62	21.20	22.62	-0.00	8.27	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-0.00	100.18	99.32	78.84	81.92	-74.03	-74.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	51	2-12	60.08	47.33	42.73	-46.59	18.34	42.73	60.08	64.59	41.81	73.52	69.07	69.07	60.99	60.99	60.99
		13-23	-0.00	64.59	77.95	18.82	18.34	51.00	60.08	46.42	60.08	69.07	69.07	69.07	60.99	60.99	60.99
2	51	24-29	69.07	69.07	-0.00	65.04	77.95	64.59	60.08	73.52	-0.00	73.52	60.08	60.08	60.08	60.08	60.08
		31-41	73.52	60.08	60.08	64.59	73.52	73.52	77.95	73.52	-0.00	73.52	60.08	60.08	60.08	60.08	60.08
		42-52	73.52	69.07	60.08	46.42	41.81	8.75	42.27	60.08	64.59	51.00	-10.34	-10.34	-10.34	-10.34	-10.34
2	51	53-59	-10.84	73.52	73.52	74.41	32.98	46.42	69.07	46.42	51.45	-20.85	-36.16	-36.16	-36.16	-36.16	-36.16
		61-71	73.52	69.07	-41.35	41.35	32.98	46.42	82.36	-0.00	37.17	-118.91	-0.98	-0.98	-0.98	-0.98	-0.98
		72-82	51.00	69.07	9.71	41.81	51.00	51.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	-220.97	-101.75	112.55	-213.30	55.55	42.27	-137.30	-0.00	59.63	34.84	-0.00	-0.00	-0.00	-0.00	-0.00
2	51	91-101	-125.57	-13.33	82.56	-149.96	-118.91	-113.52	104.04	-0.00	-0.00	13.08	-0.00	-0.00	-0.00	-0.00	-0.00
		102-112	-107.60	-41.87	-120.12	-0.00	-0.00	27.35	14.52	22.62	-0.00	13.08	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-68.03	100.18	99.32	78.84	81.92	-74.03	-74.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME		TEMPERATURES - FARENHEIT															
CHANNELS																	
3	0	2-12	60.08	47.33	46.42	-41.35	18.34	42.27	60.99	64.59	41.81	73.52	69.07				
	13-23	-0.00	65.49	77.95	18.82	18.34	51.45	60.08	51.00	60.08	73.52	69.52	60.54				
	24-29	69.07	69.07	-0.00	65.49	74.86	64.59	73.52	74.41	73.52	-0.00	73.52	60.08				
	31-41	73.52	60.08	65.04	64.59	73.52	73.52	74.41	74.41	74.41	73.52	73.52	60.08				
	42-52	73.52	69.07	60.08	46.42	41.81	8.75	41.81	41.81	41.81	60.08	55.55	-10.34				
3	0	53-59	-10.84	73.52	77.95	78.40	73.52	78.40	73.52	86.74	55.55	-20.85	-31.01				
	61-71	73.97	73.52	-41.35	-31.01	47.79	48.71	86.74	86.74	-0.00	46.42	-118.31	-0.49				
	72-82	51.00	82.36	9.23	64.59	51.00	51.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	83-89	-220.97	-101.75	130.20	-213.30	56.01	41.81	-131.09	131.09	131.09	-0.00	32.04	-31.01				
	91-101	-119.51	-8.85	86.74	-144.22	-118.91	-113.52	108.31	108.31	108.31	-0.00	-0.00	-0.00				
3	10	102-112	-113.52	-41.87	-120.12	-0.00	-0.00	32.04	28.29	36.71	-0.00	-0.00	-0.00				
	113-119	-73.48	100.61	99.32	82.36	81.92	-74.03	-74.03	-74.03	-0.00	-0.00	-0.00	-0.00				
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
3	10	2-12	60.08	51.00	46.42	-36.16	18.34	41.81	65.04	64.59	41.81	73.52	69.52				
	13-23	-0.00	69.07	77.95	18.82	18.34	51.45	60.08	51.00	60.08	73.52	69.07	60.54				
	24-29	69.07	69.07	-0.00	65.49	74.86	64.59	73.52	74.41	73.52	-0.00	73.52	60.08				
	31-41	73.52	60.08	65.04	64.59	73.52	73.52	74.41	74.41	74.41	73.52	73.52	60.08				
	42-52	77.95	69.07	60.08	51.00	41.81	8.75	41.81	41.81	60.99	64.59	55.55	-5.89				
3	10	53-59	-10.84	77.95	78.40	82.36	74.41	77.95	77.95	60.99	64.59	55.55	-5.89				
	61-71	77.95	77.95	-41.35	-25.91	73.52	74.41	77.95	77.95	65.49	60.08	-20.34	-25.40				
	72-82	51.00	86.74	13.56	95.44	51.00	51.00	-0.00	-0.00	-0.00	51.45	-113.52	0.00				
	83-89	-220.97	-101.75	141.79	-212.54	60.08	46.42	-131.09	131.09	-0.00	-0.00	-0.00	-0.00				
	91-101	-119.51	-5.89	91.10	-144.22	-118.91	-113.52	109.16	109.16	-0.00	64.14	36.71	-31.01				
3	20	102-112	-107.60	-41.87	-119.51	-0.00	-0.00	45.50	27.35	36.24	-0.00	-0.00	-0.00				
	113-119	-68.03	104.04	103.61	82.36	81.92	-68.58	-72.93	-72.93	-0.00	-0.00	-0.00	-0.00				
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
3	20	2-12	60.54	55.55	46.42	-31.01	18.34	41.81	64.59	64.59	41.81	73.52	69.07				
	13-23	-0.00	69.52	77.95	18.82	18.34	51.91	60.08	51.00	60.08	73.52	69.07	60.54				
	24-29	69.07	69.07	-0.00	69.07	77.95	64.59	73.52	77.95	73.52	-0.00	73.52	60.08				
	31-41	73.52	60.08	64.59	64.59	73.52	73.52	74.41	74.41	77.95	73.97	73.52	60.08				
	42-52	77.95	69.07	60.08	51.45	41.81	9.23	41.81	41.81	64.59	69.07	60.08	-5.89				
3	20	53-59	-10.34	77.95	92.36	82.36	77.95	82.36	77.95	64.59	64.59	60.08	-5.89				
	61-71	77.95	77.95	-41.35	-20.85	99.75	51.45	91.54	91.54	73.52	64.59	-15.82	-20.85				
	72-82	51.45	87.62	18.34	125.19	60.08	51.45	-0.00	-0.00	-0.00	55.55	-113.52	-0.98				
	83-89	-213.30	-101.75	149.98	-205.04	60.08	46.42	-131.09	131.09	-0.00	-0.00	-0.00	-0.00				
	91-101	-119.51	-5.89	91.10	-144.22	-118.91	-113.52	110.01	110.01	-0.00	64.14	32.04	-0.00				
3	20	102-112	-113.52	-41.87	-124.97	-0.00	-0.00	64.14	40.42	50.54	-0.00	40.42	-0.00				
	113-119	-0.00	104.04	103.61	82.36	81.92	-68.58	-68.58	-68.58	-0.00	-0.00	-0.00	-0.00				
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																	
3	30	2-12	64.59	56.01	46.42	-25.91	18.34	42.27	65.04	64.59	41.81	73.52	69.96						
		13-23	-0.00	69.52	77.95	18.82	14.52	55.55	60.99	55.55	73.97	69.52	64.59						
		24-29	69.07	69.07	-0.00	69.07	78.40	64.59	73.52	73.97	-0.00	73.52	60.54						
3	30	31-41	73.52	60.08	64.59	64.59	73.52	42.27	41.81	64.59	69.07	64.59	-5.89						
		42-52	78.40	69.07	64.59	55.55	77.95	82.80	77.95	77.95	77.95	73.52	60.54						
		53-59	-9.84	77.95	83.24	83.24	77.95	82.80	77.95	77.95	77.95	73.52	60.54						
3	30	61-71	82.36	78.84	-40.51	-20.34	121.00	55.55	91.10	77.95	65.04	-15.82	-20.85						
		72-82	55.55	91.10	18.82	145.89	51.45	55.55	-0.00	-0.00	56.46	-112.93	-0.98						
		83-89	-213.30	-101.75	149.96	-205.78	60.08	46.88	-131.09	-0.00	-0.00	-0.00	-0.00						
3	30	91-101	-119.51	-5.89	95.44	-143.58	-119.51	-112.33	112.55	-0.00	64.14	36.71	-0.00						
		102-112	-95.96	-36.68	-113.52	-0.00	-0.00	68.17	41.35	50.08	-0.00	32.04	-0.00						
		113-119	-0.00	100.61	103.19	82.36	81.92	-68.03	-63.13	-0.00	-0.00	-0.00	-0.00						
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
3	40	2-12	64.59	60.08	47.33	-25.40	18.34	42.27	65.49	65.04	41.81	73.52	69.96						
		13-23	-0.00	69.52	77.95	18.82	14.04	55.55	64.59	64.59	77.95	69.52	64.59						
		24-29	69.52	69.07	-0.00	69.07	77.95	64.59	73.52	74.41	-0.00	73.52	60.99						
3	40	31-41	73.52	61.89	64.59	64.59	73.52	73.97	74.41	73.52	73.52	69.07	-5.89						
		42-52	82.36	69.07	65.04	56.01	42.73	13.56	41.81	65.49	73.52	69.07	-5.89						
		53-59	-5.89	77.95	82.80	86.74	78.40	82.36	77.95	77.95	73.52	69.07	-5.89						
3	40	61-71	82.36	82.36	-36.16	-15.82	137.67	55.55	91.54	82.36	69.07	-15.32	-15.82						
		72-82	55.55	91.10	23.09	162.15	51.00	55.55	-0.00	-0.00	60.08	-112.93	0.00						
		83-89	-205.04	-101.17	154.05	-205.78	64.59	46.42	-137.30	-0.00	60.08	-112.93	0.00						
3	40	91-101	-125.57	-5.89	95.44	-144.22	-118.91	-107.60	112.55	-0.00	68.62	36.71	-0.00						
		102-112	-101.75	-41.87	-114.12	-0.00	-0.00	72.63	50.54	58.73	-0.00	32.04	-0.00						
		113-119	-78.99	-0.00	99.32	82.36	81.92	-63.13	-63.13	-0.00	-0.00	-0.00	-0.00						
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
4	0	2-12	65.04	65.04	51.00	-15.82	18.82	42.73	69.07	65.49	41.81	73.52	73.52						
		13-23	-0.00	69.52	77.95	23.09	14.04	55.55	64.59	69.07	77.95	69.52	64.59						
		24-29	73.52	69.52	-0.00	69.07	78.40	64.59	73.52	73.97	-0.00	73.52	64.59						
4	0	31-41	73.52	65.04	65.04	65.49	73.97	73.52	77.95	73.97	-0.00	73.52	64.59						
		42-52	82.36	69.07	65.04	60.08	46.42	13.56	41.81	69.07	73.52	82.36	-5.40						
		53-59	-5.89	78.84	86.74	86.74	78.84	82.36	78.40	78.40	73.52	82.36	-5.40						
4	0	61-71	82.36	82.36	-36.16	-10.84	158.11	55.55	91.10	87.62	69.07	-15.32	-15.82						
		72-82	55.55	91.10	23.57	178.15	51.45	55.55	-0.00	-0.00	60.08	-107.60	3.90						
		83-89	-190.52	-100.00	158.11	-205.78	64.59	46.42	-144.22	-0.00	60.08	-107.60	3.90						
4	0	91-101	-125.57	-4.41	96.74	-144.52	-112.93	-107.60	113.82	-0.00	74.41	41.35	-23.37						
		102-112	-84.58	-31.01	-95.96	-0.00	-0.00	90.23	63.69	77.51	-0.00	54.19	-0.00						
		113-119	-78.99	95.44	95.01	82.36	81.92	-57.74	-57.74	-0.00	-0.00	-0.00	-0.00						
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT													
4	20	2-12	69.07	64.59	51.00	-14.82	18.34	42.73	69.52	69.07	41.35	73.52	73.97		
		13-23	-0.00	73.97	77.95	23.09	14.52	55.55	64.59	69.07	82.36	69.07	64.59		
4	20	24-29	73.52	73.52	-0.00	73.52	77.95	65.04	77.95	73.97	-0.00	73.52	63.24		
		31-41	73.52	64.59	69.52	69.07	77.95	73.97	77.95	73.52	77.95	91.10	-4.90		
4	20	42-52	86.74	69.07	69.52	46.42	18.34	42.73	42.27	73.52	77.95	73.52	77.95		
		53-59	-5.89	82.36	86.74	86.74	82.36	82.80	77.95	95.44	73.52	-14.82	-15.82		
4	20	61-71	82.80	82.36	-30.50	-5.89	166.17	55.55	91.10	-0.00	60.08	-107.60	3.90		
		72-82	55.55	91.97	27.82	174.17	51.91	51.91	-0.00	-0.00	73.08	41.35	-25.91		
4	20	83-89	-183.43	-95.96	158.11	-205.78	64.59	46.68	-130.48	-0.00	-0.00	41.35	-25.91		
		91-101	-119.51	-0.98	99.75	-137.30	-117.71	-107.60	114.66	68.62	-0.00	54.64	-0.00		
		102-112	-95.96	-36.68	-102.53	-0.00	-0.00	90.23	59.63	68.62	-0.00	54.64	-0.00		
		113-119	-68.58	95.44	95.01	82.36	81.92	-52.40	-56.67	-0.00	-0.00	-0.00	-0.00		
-0		801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
4	40	2-12	69.52	69.07	55.55	-10.34	23.09	46.42	73.52	69.07	41.81	73.97	77.95		
		13-23	-0.00	73.97	77.95	23.09	14.52	55.55	64.59	73.52	82.36	69.52	64.59		
4	40	24-29	73.52	73.52	-0.00	73.52	77.95	69.07	77.95	73.97	-0.00	73.52	64.59		
		31-41	73.52	64.59	69.07	69.52	77.95	-0.00	77.95	73.52	77.95	99.75	-0.98		
4	40	42-52	86.74	69.52	69.52	65.49	51.00	18.82	42.27	73.52	-0.00	73.52	77.95		
		53-59	-0.98	82.36	86.74	86.74	82.36	83.24	78.84	99.75	73.52	-10.84	-13.33		
4	40	61-71	83.24	82.36	-25.40	-5.89	169.38	55.55	91.10	-0.00	60.54	-107.01	3.90		
		72-82	55.55	95.44	28.29	177.75	55.55	55.55	-0.00	-0.00	-0.00	-0.00	-0.00		
4	40	83-89	-183.43	-95.96	152.13	-205.78	64.59	51.00	-124.97	-0.00	68.62	41.35	-31.01		
		91-101	-119.51	-0.98	99.75	-137.92	-113.52	-107.01	116.77	73.08	-0.00	54.19	-0.00		
		102-112	-90.81	-31.53	-90.24	-0.00	-0.00	-0.00	59.63	-0.00	-0.00	-0.00	-0.00		
		113-119	-68.58	95.44	99.32	82.36	85.87	-51.34	-52.40	-0.00	-0.00	-0.00	-0.00		
-0		801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
5	0	2-12	73.52	69.52	-0.00	-5.89	23.09	46.42	73.52	69.07	42.27	77.95	78.40		
		13-23	-0.00	73.52	77.95	23.57	18.34	55.55	65.04	73.52	86.74	69.96	64.59		
5	0	24-29	77.95	74.41	-0.00	73.97	77.95	69.07	69.07	73.52	-0.00	73.52	64.59		
		31-41	73.97	65.04	73.52	73.52	82.36	78.40	82.36	73.97	-0.00	73.52	64.59		
5	0	42-52	91.10	69.52	69.96	69.07	51.00	23.09	42.73	77.95	82.36	104.04	-0.98		
		53-59	-0.98	82.36	86.74	86.74	82.36	82.80	82.36	99.75	73.97	-10.34	-10.84		
5	0	61-71	86.74	82.36	-25.40	-0.98	166.17	55.55	91.10	-0.00	60.54	-107.01	3.90		
		72-82	55.55	95.44	28.29	170.18	55.55	55.55	-0.00	-0.00	73.08	41.35	-25.91		
5	0	83-89	-190.52	-95.96	152.15	-205.78	55.55	51.00	-124.97	-0.00	-0.00	54.64	-0.00		
		91-101	-119.51	-0.98	99.75	-137.92	-112.93	-107.60	116.77	-0.00	-0.00	54.64	-0.00		
		102-112	-85.14	-31.53	-101.75	-0.00	-0.00	-0.00	55.10	68.17	-0.00	54.64	-0.00		
		113-119	-68.03	99.75	99.32	86.74	86.31	-47.11	-47.11	-0.00	-0.00	-0.00	-0.00		
-0		801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00		

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 3, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUNNY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

5	20	2-12	73.97	73.52	50.08	-5.89	23.09	46.42	77.95	69.07	43.19	77.95	82.36
		13-23	-0.00	74.41	77.95	23.57	18.34	55.55	69.07	77.95	86.74	73.97	64.59
		24-29	77.95	77.95	-0.00	77.95	77.95	69.07	77.95	73.52	-0.00	74.41	69.07
5	20	31-41	73.52	65.04	73.52	73.52	82.36	77.95	46.42	77.95	82.36	108.31	3.90
		42-52	91.10	73.52	73.52	69.96	55.55	23.57	46.42	77.95	82.36	108.31	3.90
5	20	53-59	-0.98	82.36	86.74	86.74	82.36	86.74	104.04	104.04	77.95	-5.89	-10.34
		61-71	86.74	82.36	-20.85	-0.49	165.37	60.08	91.54	-0.00	64.59	-106.43	8.75
		72-82	56.46	95.44	32.51	166.17	55.55	56.01	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	-190.52	-95.96	156.17	-205.78	70.41	55.55	-124.97	-0.00	73.08	41.35	-25.91
5	20	91-101	-119.51	3.90	104.90	-137.30	-113.52	-101.75	121.42	-0.00	-0.00	54.64	-0.00
		102-112	-95.96	-36.68	-108.19	-0.00	-0.00	77.07	45.96	59.63	-0.00	-0.00	-0.00
		113-119	-62.59	-0.00	99.32	86.74	86.31	-41.87	-41.87	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	40	2-12	77.95	73.97	60.08	-0.98	23.09	46.42	77.95	69.07	43.19	78.40	82.36
		13-23	-0.00	78.40	77.95	24.04	18.34	56.46	69.07	77.95	87.62	73.97	69.07
		24-29	78.40	78.40	-0.00	77.95	77.95	69.07	77.95	73.97	-0.00	74.41	69.07
5	40	31-41	77.95	69.52	73.52	73.52	82.36	82.80	46.42	82.36	86.74	108.31	3.90
		42-52	91.54	73.52	78.40	73.52	55.55	24.04	46.42	82.36	86.74	108.31	3.90
5	40	53-59	3.90	82.36	86.74	86.74	82.36	87.18	104.47	104.47	77.95	-5.89	-5.89
		61-71	86.74	82.36	-20.34	0.49	166.17	60.08	91.54	-0.00	65.04	-101.75	8.75
		72-82	60.08	95.44	32.51	170.18	56.01	60.08	-0.00	-0.00	73.08	41.35	-25.91
		83-89	-196.52	-95.96	156.17	-205.78	70.41	55.55	-124.97	-0.00	-0.00	63.69	-0.00
5	40	91-101	-119.51	3.90	108.31	-137.92	-112.93	-101.75	121.42	68.17	-0.00	-0.00	-0.00
		102-112	-90.24	-36.68	-96.53	-0.00	-0.00	77.07	54.64	68.17	-0.00	-0.00	-0.00
		113-119	-57.20	95.44	95.01	86.74	86.31	-36.68	-36.68	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. 11-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
5	40	77.95	73.97	60.08	-0.98	23.09	46.42	77.95	69.07	43.19	78.40	82.36	
	13-23	-0.00	78.40	77.95	24.04	18.34	56.46	69.07	77.95	87.62	73.97	65.04	
5	40	77.95	78.40	77.95	77.95	77.95	69.07	82.80	73.97	-0.00	74.41	69.07	
	24-29	78.40	78.40	77.95	77.95	77.95	69.07	82.80	73.97	-0.00	74.41	69.07	
	31-41	77.95	69.52	73.52	73.52	82.36	82.36	82.80	82.36	86.74	108.31	3.90	
	42-52	91.54	73.52	78.40	73.52	55.55	24.04	46.42	82.36	86.74	108.31	3.90	
5	40	3.90	82.36	86.74	86.74	82.36	87.18	82.36	104.47	77.95	-5.89	-5.89	
	53-59	86.74	82.36	86.74	86.74	82.36	87.18	82.36	-0.00	65.04	-101.75	8.75	
	61-71	86.74	82.36	32.51	0.49	166.17	60.08	91.54	-0.00	77.95	-5.89	-5.89	
	72-82	86.08	95.44	-20.34	170.18	56.01	60.08	104.47	-0.00	65.04	-101.75	8.75	
5	40	-190.52	-95.96	166.17	-205.78	70.41	55.55	-124.97	-0.00	73.08	41.35	-25.91	
	83-89	-119.51	3.90	108.31	-137.92	-112.93	-101.75	121.42	-0.00	-0.00	63.69	-0.00	
	91-101	-90.24	-36.68	95.01	86.74	86.31	-36.68	54.64	68.17	-0.00	63.69	-0.00	
	102-112	-57.20	95.44	95.01	-0.00	-0.00	-0.00	77.07	-0.00	-0.00	-0.00	-0.00	
	113-119	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
5	42	77.95	74.41	60.08	-0.98	23.09	46.42	77.95	69.07	43.65	78.40	82.36	
	13-23	-0.00	78.40	77.95	27.82	18.34	56.46	69.07	77.95	91.10	73.97	65.04	
5	42	77.95	78.40	77.95	77.95	77.95	69.07	82.80	73.97	-0.00	77.95	69.07	
	24-29	77.95	69.52	74.41	73.97	82.36	82.36	82.80	73.97	-0.00	77.95	69.07	
	31-41	77.95	73.52	78.40	73.52	55.55	27.82	46.42	82.36	86.74	108.73	3.90	
	42-52	91.54	73.52	78.40	73.52	82.36	86.74	82.36	82.36	86.74	108.73	3.90	
5	42	3.90	82.36	86.74	86.74	82.36	86.74	82.36	108.31	77.95	-5.89	-0.85	
	53-59	86.74	82.36	86.74	86.74	82.36	86.74	82.36	-0.00	64.59	-101.75	8.75	
	61-71	86.74	82.80	-20.34	3.90	166.17	60.08	91.97	-0.00	-0.00	-0.00	-0.00	
	72-82	60.08	95.44	32.51	170.18	56.01	60.08	104.47	-0.00	63.69	32.04	-25.91	
	83-89	-190.52	-95.96	166.17	-205.78	69.96	55.55	-124.97	-0.00	-0.00	54.64	-0.00	
5	42	-119.51	1.47	104.90	-137.92	-112.93	-101.75	121.00	-0.00	-0.00	54.64	-0.00	
	102-112	-90.24	-0.00	-96.53	-0.00	-0.00	77.07	55.10	64.14	-0.00	-0.00	-0.00	
	113-119	-68.03	95.44	95.01	86.74	86.31	-36.68	-36.68	-0.00	-0.00	-0.00	-0.00	
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
5	44	77.95	77.95	50.08	-0.98	23.57	46.42	77.95	69.07	46.42	78.40	82.36	
	13-23	-0.00	77.95	77.95	27.82	18.34	60.08	69.07	77.95	91.10	73.97	65.04	
5	44	77.95	77.95	77.95	77.95	77.95	69.07	82.80	73.52	-0.00	77.95	69.07	
	24-29	78.40	69.52	74.41	73.97	82.80	82.36	82.80	73.52	-0.00	77.95	69.07	
	31-41	77.95	73.52	78.40	73.52	55.55	27.82	46.42	82.36	86.74	109.16	3.90	
	42-52	91.97	73.52	77.95	73.52	82.36	86.74	82.36	82.36	86.74	109.16	3.90	
5	44	3.90	82.36	86.74	86.74	82.36	86.74	82.36	104.90	77.95	-5.89	-8.85	
	53-59	86.74	82.36	86.74	86.74	82.36	86.74	82.36	-0.00	51.00	-62.59	-25.91	
	61-71	86.74	42.80	-20.34	3.90	166.17	60.08	91.97	-0.00	-0.00	-0.00	-0.00	
	72-82	60.08	95.44	32.51	170.18	56.01	60.08	104.90	-0.00	27.35	15.00	13.08	
	83-89	-95.96	-95.96	125.19	-84.02	18.34	0.00	-125.57	-0.00	-0.00	54.64	-0.00	
5	44	-125.57	-20.85	46.42	18.34	-84.02	-84.58	56.01	-0.00	-0.00	15.00	13.08	
	91-101	-107.60	-47.11	-51.34	-0.00	-0.00	90.23	64.14	73.08	-0.00	54.64	-0.00	
	102-112	-0.00	95.44	95.01	86.74	86.31	-36.68	-36.68	-0.00	-0.00	-0.00	-0.00	
	113-119	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME	CANNELS	TEMPERATURES - FAHRENHEIT															
5 46	2-12	77.95	74.41	50.08	-0.98	23.09	46.42	78.40	69.07	69.07	43.65	78.40	82.36				
	13-23	-0.00	77.95	77.95	27.82	18.34	60.08	69.07	69.07	69.07	86.74	73.97	64.59				
5 46	24-29	78.40	77.95	0.00	77.95	77.95	69.52	82.36	73.97	73.97	-0.00	77.95	69.07				
	31-41	77.95	69.07	77.95	74.41	82.36	82.80	46.42	-0.00	-0.00	86.74	109.16	3.90				
	42-52	86.74	73.52	77.95	73.52	55.55	27.82	46.42	82.36	82.36	86.74	109.16	3.90				
5 46	53-59	3.90	82.36	86.74	86.74	82.36	86.74	82.36	108.31	108.31	77.95	-5.89	-8.85				
	61-71	86.74	82.80	-21.34	3.90	162.15	60.08	91.97	-0.00	-0.00	-0.98	32.51	-90.24				
	72-82	60.08	99.75	32.51	-0.00	56.01	60.08	-0.00	-0.00	-0.00	-0.98	32.51	-90.24				
	83-89	73.52	-90.24	77.95	65.04	-68.03	-89.67	-137.30	-0.00	-0.00	-51.87	-19.84	17.87				
5 46	91-101	-137.30	-62.05	-36.16	129.37	-0.98	-25.91	-41.35	72.63	72.63	-0.00	64.14	-0.00				
	102-112	64.14	35.78	68.62	-0.00	-0.00	77.51	59.63	-0.00	-0.00	-0.00	64.14	-0.00				
	113-119	-0.00	95.44	95.01	86.74	86.31	-36.68	-36.68	-0.00	-0.00	-0.00	-0.00	-0.00				
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
5 48	2-12	77.95	77.95	60.08	-0.98	23.09	46.42	77.95	69.07	69.07	43.65	78.84	82.36				
	13-23	-0.00	77.95	77.95	27.82	18.34	60.08	69.07	69.07	69.07	82.36	73.52	65.04				
5 48	24-29	78.40	78.40	0.00	77.95	77.95	69.52	82.36	73.97	73.97	-0.00	77.95	69.07				
	31-41	77.95	69.52	74.86	77.95	82.80	82.36	46.42	-0.00	-0.00	86.74	112.55	3.90				
	42-52	82.80	73.52	78.40	73.52	55.55	27.82	46.42	82.36	82.36	86.74	112.55	3.90				
5 48	53-59	3.90	82.36	86.74	86.74	82.36	86.74	82.36	108.31	108.31	77.95	-5.89	-9.84				
	61-71	86.74	82.80	-20.34	3.90	165.37	60.08	91.10	-0.00	-0.00	-25.91	60.08	-113.52				
	72-82	60.08	95.44	37.17	169.78	56.01	60.08	-0.00	-0.00	-0.00	-0.00	60.08	-113.52				
5 48	83-89	86.74	-95.78	55.55	82.80	-101.17	-118.91	-137.30	-0.00	-0.00	-68.03	-29.48	32.04				
	91-101	-143.58	-78.99	-62.59	141.79	9.23	-15.32	-84.58	59.63	59.63	-0.00	54.64	-0.00				
	102-112	63.69	32.04	70.82	-0.00	-0.00	77.07	50.54	-0.00	-0.00	-0.00	-0.00	-0.00				
	113-119	-0.00	95.44	95.01	86.74	86.31	-36.68	-36.68	-0.00	-0.00	-0.00	-0.00	-0.00				
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
5 50	2-12	77.95	74.41	60.08	-0.98	23.09	46.42	77.95	69.07	69.07	43.65	78.84	82.36				
	13-23	-0.00	77.95	77.95	27.82	18.34	60.08	69.07	69.07	69.07	86.74	73.97	65.04				
5 50	24-29	78.84	78.40	0.00	77.95	77.95	69.52	82.36	73.97	73.97	-0.00	77.95	69.07				
	31-41	77.95	69.52	77.95	77.95	82.80	82.80	46.42	-0.00	-0.00	86.74	112.55	3.90				
	42-52	82.36	73.52	78.40	73.52	55.55	27.82	46.42	82.36	82.36	86.74	112.55	3.90				
5 50	53-59	3.90	82.36	86.74	86.74	82.36	82.36	82.36	104.04	104.04	77.95	-5.89	-10.84				
	61-71	86.74	82.36	-15.82	-0.98	166.17	60.08	87.18	-0.00	-0.00	-41.35	69.07	-124.97				
	72-82	60.08	91.10	46.88	-0.00	60.08	60.08	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	83-89	91.10	-95.96	37.17	91.10	-118.91	-131.71	-137.30	-0.00	-0.00	-84.58	-46.59	-0.00				
5 50	91-101	-144.22	-90.24	-78.99	146.71	13.56	-15.32	-107.60	64.14	64.14	-0.00	54.64	-0.00				
	102-112	63.69	36.24	73.08	-0.00	-0.00	77.07	50.08	-0.00	-0.00	-0.00	-0.00	-0.00				
	113-119	-74.03	95.44	95.01	86.74	86.31	-36.68	-36.68	-0.00	-0.00	-0.00	-0.00	-0.00				
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
5	52	78.40	77.95	50.08	-0.98	23.09	46.42	77.95	69.96	46.42	78.84	82.36	
		-0.00	77.95	77.95	27.82	18.34	60.08	69.07	55.55	77.95	73.52	65.04	
5	52	82.36	78.40	0.00	77.95	77.95	69.52	82.36	73.52	-0.00	77.95	69.07	
		77.95	69.52	74.86	74.41	82.80	82.36	46.42	-0.00	86.74	112.55	3.90	
5	52	3.90	82.36	83.24	86.74	82.36	82.80	77.95	100.18	77.95	-5.89	-10.84	
		86.74	82.36	-15.82	0.98	170.18	60.08	82.80	-0.00	-56.67	70.41	-131.09	
5	52	61.08	86.74	60.08	174.17	60.08	60.08	-0.00	-0.00	-90.24	-47.11	8.27	
		91.10	-95.96	27.82	91.97	-131.09	-142.95	-137.30	-0.00	-0.00	55.10	-0.00	
102-112		-149.32	-99.42	-90.24	149.98	13.56	-15.82	-125.57	72.19	-0.00	-0.00	-0.00	
113-119		68.62	36.71	68.62	-0.00	-0.00	77.07	59.63	-0.00	-0.00	-0.00	-0.00	
801-B11		-0.00	95.44	95.01	86.74	86.31	-36.68	-36.68	-0.00	-0.00	-0.00	-0.00	
812-B22		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
823-B24		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
5	54	77.95	74.41	60.08	-0.98	23.09	46.42	78.40	69.96	46.42	78.84	82.80	
		-0.00	77.95	77.95	24.04	18.82	60.08	69.07	55.55	77.95	73.97	65.04	
5	54	78.84	78.40	0.00	77.95	77.95	69.52	82.80	73.97	-0.00	77.95	69.07	
		75.30	69.07	77.95	77.95	82.80	82.80	46.42	-0.00	86.74	110.01	3.90	
5	54	82.36	73.52	77.95	82.36	56.01	27.82	77.95	99.75	77.95	-5.89	-10.84	
		3.90	82.36	82.36	82.36	82.36	82.36	82.36	-0.00	-62.59	73.52	-131.09	
5	54	86.74	82.36	-15.82	-0.98	170.18	56.01	82.36	-0.00	-0.00	-0.00	-0.00	
		60.08	79.28	73.52	174.17	60.54	60.08	-0.00	-0.00	-101.75	-41.87	-0.00	
83-89		92.41	-95.96	14.52	95.44	-137.92	-149.96	-131.71	68.62	-0.00	54.64	-0.00	
91-101		-150.60	-101.75	-95.96	154.05	18.34	-15.82	-137.30	-0.00	-0.00	-0.00	-0.00	
102-112		77.63	36.71	73.08	-0.00	-0.00	77.07	59.63	-0.00	-0.00	-0.00	-0.00	
113-119		-62.59	95.44	95.01	86.74	86.31	-35.64	-36.68	-0.00	-0.00	-0.00	-0.00	
801-B11		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
812-B22		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
823-B24		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
5	56	77.95	73.97	50.08	-0.98	23.09	46.42	77.95	69.52	46.42	79.28	82.80	
		-0.00	77.95	77.95	27.82	18.34	56.92	69.07	55.55	77.95	73.52	64.59	
5	56	78.84	78.40	0.00	77.95	77.95	69.52	82.80	73.52	-0.00	77.95	69.07	
		77.95	69.07	77.95	77.95	82.80	80.16	46.42	-0.00	86.74	112.55	3.90	
5	56	82.36	73.52	77.95	73.52	56.01	27.82	77.95	95.44	77.95	-5.89	-10.84	
		3.90	82.36	82.36	82.36	82.36	82.36	77.95	-0.00	-73.48	73.52	-137.30	
5	56	83.24	78.84	-15.82	-0.98	173.77	56.46	77.95	-0.00	-0.00	-0.00	-0.00	
		63.08	77.95	82.36	174.15	64.59	60.08	-0.00	-0.00	-0.00	-0.00	-0.00	
83-89		3.44	-101.17	4.39	99.75	-144.22	-150.60	-131.71	-0.00	-0.00	-0.00	-0.00	
91-101		-150.60	-107.60	-107.60	157.70	18.34	-15.32	-143.58	-0.00	-101.75	-52.40	22.62	
102-112		68.62	36.71	77.51	-0.00	-0.00	-0.00	50.54	63.24	-0.00	63.69	-0.00	
113-119		-74.03	95.44	95.01	86.74	86.31	-31.53	-36.68	-0.00	-0.00	-0.00	-0.00	
801-B11		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
812-B22		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
823-B24		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																	
5	58	2-12	77.95	73.52	60.08	-0.98	23.09	46.42	77.95	69.52	46.42	82.36	82.36	69.07	77.95	69.52	46.42	82.36	82.36
		13-23	-0.00	77.95	77.95	27.82	18.34	60.08	69.07	55.55	74.41	73.52	64.59						
		24-29	82.36	78.40	-0.00	77.95	77.95	69.52											
5	58	31-41	77.95	69.07	78.40	77.95	82.80	82.36	82.36	73.52	-0.00	77.95	69.07	77.95	73.52	-0.00	86.74	110.01	69.07
		42-52	78.84	73.52	77.95	73.52	56.01	27.82	46.42	-0.00	86.74	110.01	3.90						
		53-59	3.90	82.36	82.36	82.36	82.36	77.95	74.41	95.44	77.95	-15.32	-15.32						
5	58	61-71	82.80	77.95	-15.82	-5.89	174.17	55.55	74.41	-0.00	-78.44	73.52	-15.32						
		72-82	60.08	73.52	91.10	178.15	64.59	60.08	-0.00	-0.00	-78.44	73.52	-137.30						
		83-89	95.44	-101.17	0.98	99.75	-149.94	-150.60	-131.71	-0.00	-0.00	-0.00	-0.00						
5	58	91-101	-150.60	-112.93	-113.52	158.11	18.34	-15.32	-156.43	-0.00	-108.19	-57.20	-0.00						
		102-112	68.17	36.71	77.51	-0.00	90.23	64.14	73.08	-0.00	-0.00	-0.00	-0.00						
		113-119	-74.03	95.44	95.01	86.74	86.31	-31.53	-36.68	-0.00	-0.00	-0.00	-0.00						
-0		801-R11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-R22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-R24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
6	0	2-12	77.95	73.97	60.08	-4.90	23.09	46.42	77.95	69.52	46.42	82.36	82.80						
		13-23	-0.00	77.95	77.95	27.82	18.34	60.08	69.52	55.55	73.97	73.52	65.04						
		24-29	82.36	78.40	-0.00	77.95	77.95	69.52											
6	0	31-41	77.95	69.52	77.95	77.95	83.24	82.36	82.80	73.97	-0.00	77.95	69.07						
		42-52	78.40	73.52	77.95	73.52	56.46	28.29	46.42	-0.00	86.74	112.55	3.90						
		53-59	3.90	82.36	82.36	82.36	82.36	77.95	73.52	91.10	77.95	-5.89	-15.82						
6	0	61-71	82.36	77.95	-15.32	-5.89	174.17	55.55	73.52	-0.00	-84.02	74.41	-0.00						
		72-82	56.46	73.52	99.75	178.15	64.59	60.54	-0.00	-0.00	-84.02	74.41	-0.00						
		83-89	95.44	-101.17	5.89	99.75	-150.60	-157.08	-137.30	-0.00	-0.00	-0.00	-0.00						
6	0	91-101	-150.60	-113.52	-118.91	158.11	18.34	-15.32	-157.08	-0.00	-113.52	-47.11	22.62						
		102-112	63.69	36.71	73.08	-0.00	90.23	64.14	73.08	-0.00	-0.00	-0.00	-0.00						
		113-119	-0.00	95.44	95.01	86.74	86.31	-31.53	-36.68	-0.00	-0.00	-0.00	-0.00						
-0		801-R11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-R22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-R24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
6	2	2-12	77.95	73.52	60.08	-5.40	23.09	46.42	77.95	69.52	46.42	82.36	82.36						
		13-23	-0.00	77.95	77.95	27.82	18.34	60.08	69.07	55.55	73.52	73.52	65.04						
		24-29	82.36	78.40	-0.00	77.95	77.95	69.07											
6	2	31-41	77.95	69.07	77.95	77.95	83.24	82.36	82.36	73.52	-0.00	77.95	69.07						
		42-52	77.95	73.52	77.95	73.52	56.46	27.82	46.42	-0.00	86.74	112.55	3.90						
		53-59	3.90	79.28	78.40	77.95	82.36	74.41	73.52	91.10	77.95	-5.89	-15.82						
6	2	61-71	82.36	77.95	-14.82	-5.89	174.17	55.55	73.52	-0.00	-90.24	74.41	-137.30						
		72-82	56.46	69.07	104.04	178.15	60.54	60.54	-0.00	-0.00	-90.24	74.41	-137.30						
		83-89	95.44	-101.17	-15.82	101.04	-157.08	-157.08	-137.92	-0.00	-107.60	-57.20	27.35						
6	2	91-101	-150.60	-117.71	-119.51	161.34	18.34	-14.82	-163.66	-0.00	-107.60	-57.20	27.35						
		102-112	63.69	36.71	72.63	-0.00	-0.00	-0.00	59.18	68.62	-0.00	63.69	-0.00						
		113-119	-68.03	95.44	95.01	86.74	86.31	-31.53	-36.68	-0.00	-0.00	-0.00	-0.00						
-0		801-R11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		812-R22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						
		823-R24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00						

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF.

TEMPERATURES - FARENHEIT

TIME CHANNELS

6	5	2-12	77.95	73.52	60.08	-5.40	23.09	46.42	78.40	69.52	44.12	82.36	82.80
		13-23	-0.00	78.40	77.95	28.29	18.34	60.08	69.07	55.55	73.52	73.97	65.04
6	5	24-29	82.36	78.84	-0.00	77.95	77.95	69.52	82.36	73.97	-0.00	77.95	69.07
		31-41	77.95	69.07	78.40	77.95	86.74	82.36	46.42	-0.00	86.74	112.55	3.90
6	5	42-52	77.95	73.52	78.40	73.52	60.08	28.76	73.52	87.62	74.41	-5.89	-17.83
		53-59	3.90	82.36	77.95	77.95	82.36	73.97	69.96	-0.00	-95.96	75.74	-137.30
6	5	61-71	82.36	77.95	-10.84	-5.99	177.75	55.55	-0.00	-0.00	-0.00	-0.00	-0.00
		72-82	56.46	69.07	108.31	182.11	64.59	60.99	-0.00	-0.00	-0.00	-0.00	-0.00
6	5	83-89	96.30	-101.17	-20.65	104.04	-157.08	-137.30	-0.00	-0.00	-0.00	-0.00	-0.00
		91-101	-150.60	-119.51	-125.57	162.15	18.34	-10.34	-169.68	-0.00	-113.52	-51.87	-0.00
		102-112	68.62	36.71	77.51	-0.00	-0.00	77.07	59.63	68.62	-0.00	54.64	-0.00
		113-119	-0.00	95.44	95.01	86.74	86.31	-31.53	-36.16	-0.00	-0.00	-0.00	-0.00
	-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
6	10	2-12	77.95	73.52	60.08	-5.89	24.04	46.42	78.40	69.96	46.42	82.36	82.80
		13-23	-0.00	78.40	77.95	28.29	18.34	60.08	69.07	51.91	73.52	73.97	65.49
6	10	24-29	82.36	78.84	-0.00	77.95	77.95	69.52	82.80	74.41	-0.00	77.95	69.07
		31-41	77.95	69.07	77.95	77.95	86.74	82.80	46.42	82.36	82.80	112.55	3.90
6	10	42-52	77.95	73.52	78.40	69.96	60.08	32.51	73.52	83.24	73.97	-5.89	-19.34
		53-59	0.00	77.95	77.95	77.95	82.36	73.52	69.52	-0.00	-107.60	77.95	-143.58
6	10	61-71	82.36	73.52	-10.34	-10.84	178.15	55.55	-0.00	-0.00	-0.00	-0.00	-0.00
		72-82	56.01	65.04	121.00	185.06	69.07	64.59	-0.00	-0.00	-0.00	-0.00	-0.00
6	10	83-89	99.75	-101.17	-31.01	104.90	-163.66	-157.08	-137.92	-0.00	-0.00	-0.00	-0.00
		91-101	-150.60	-122.54	-136.67	165.77	18.34	-10.34	-177.18	-0.00	-125.57	-63.13	-0.00
		102-112	68.17	36.71	77.51	-0.00	-0.00	77.07	59.63	68.62	-0.00	55.10	-0.00
		113-119	-0.00	95.44	95.01	86.74	86.31	-31.53	-31.53	-0.00	-0.00	-0.00	-0.00
	-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
6	20	2-12	77.95	69.96	60.08	-10.34	24.04	46.42	77.95	69.96	46.42	82.36	83.24
		13-23	-0.00	77.95	77.95	28.76	18.34	60.08	69.07	51.00	73.52	73.97	64.59
6	20	24-29	82.36	78.40	-0.00	77.95	77.95	69.52	82.80	77.95	-0.00	77.95	69.07
		31-41	77.95	69.52	75.30	77.95	86.74	82.80	46.42	82.36	82.36	112.55	4.39
6	20	42-52	77.95	73.52	78.40	69.07	60.08	32.98	69.52	77.95	-0.00	77.95	69.07
		53-59	-0.49	77.95	73.52	73.52	82.36	69.52	69.52	-0.00	-0.00	-0.00	-0.00
6	20	61-71	77.95	73.52	-5.40	-15.82	182.11	55.55	65.04	77.95	73.52	-5.89	-20.85
		72-82	55.55	60.08	129.37	189.99	69.07	64.59	-0.00	-0.00	-118.91	78.84	-143.58
6	20	83-89	95.87	-101.17	-46.59	108.31	-175.81	-163.66	-137.30	-0.00	-0.00	-0.00	-0.00
		91-101	-150.60	-125.57	-144.22	166.17	18.82	-10.84	-190.52	-0.00	-132.33	-56.67	-0.00
		102-112	72.63	36.71	77.51	-0.00	-0.00	90.23	58.73	68.62	-0.00	59.18	-0.00
		113-119	-68.28	95.44	95.01	86.74	86.31	-26.42	-31.53	-0.00	-0.00	-0.00	-0.00
	-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
6 30	2-12	77.95	69.52	60.08	-10.84	23.57	46.42	77.95	73.52	43.65	82.36	86.74					
	13-23	-0.00	77.95	77.95	32.51	18.34	60.08	69.07	51.00	73.52	73.97	65.04					
	24-29	79.28	78.84	-0.00	77.95	77.95	69.52	83.24	77.95	-0.00	77.95	69.52					
	31-41	77.95	69.07	78.40	77.95	86.74	82.80	46.42	82.36	82.36	113.40	3.90					
6 30	42-52	77.95	73.52	77.95	69.07	60.08	37.17	69.07	73.52	69.07	77.95	69.52					
	53-59	-0.98	74.86	73.52	73.52	78.40	69.07	69.07	73.52	69.07	77.95	69.52					
	61-71	77.95	69.96	-0.98	-15.82	186.06	59.55	64.59	73.52	69.07	77.95	69.52					
	72-82	55.55	60.08	133.53	189.99	69.07	64.59	-0.00	-0.00	-125.57	79.28	-143.58					
6 30	83-89	96.30	-101.17	-57.20	108.31	-176.49	-163.00	-137.30	-0.00	-125.57	-56.67	32.04					
	91-101	-150.60	-125.57	-150.60	166.17	18.82	-13.82	-197.66	-0.00	-0.00	59.18	-0.00					
	102-112	77.07	41.35	82.80	-0.00	-0.00	85.87	63.69	73.08	-0.00	59.18	-0.00					
	113-119	-0.00	95.44	95.01	86.74	86.31	-26.42	-31.53	-0.00	-0.00	-0.00	-0.00					
6 40	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	2-12	77.95	69.07	60.08	-15.32	27.82	46.42	77.95	69.96	46.88	82.36	86.74					
6 40	13-23	-0.00	74.41	78.40	32.51	18.34	60.08	69.07	51.00	70.41	73.97	65.49					
	24-29	82.36	78.40	-0.00	77.95	77.95	69.07	86.74	77.95	-0.00	77.95	69.52					
	31-41	77.95	69.07	77.95	77.95	86.74	82.80	46.42	82.36	82.36	114.66	3.90					
	42-52	73.52	73.52	73.52	64.59	60.08	37.17	46.42	82.36	82.36	114.66	3.90					
6 40	53-59	-0.98	73.52	69.52	73.52	77.95	69.07	69.07	69.07	65.49	77.95	69.52					
	61-71	74.41	69.52	3.90	-20.85	189.20	55.55	64.59	69.07	65.49	77.95	69.52					
	72-82	55.55	55.55	133.53	193.91	69.07	64.59	-0.00	-0.00	-131.71	79.28	-143.58					
	83-89	96.74	-101.17	-66.96	108.73	-177.18	-163.56	-137.92	-0.00	-0.00	79.28	-143.58					
6 40	91-101	-156.43	-125.57	-157.08	166.17	18.82	-10.84	-197.66	-0.00	-132.33	-63.13	32.04					
	102-112	68.17	36.71	81.92	-0.00	-0.00	85.87	59.63	72.19	-0.00	54.64	-0.00					
	113-119	-68.03	95.44	95.01	86.74	86.31	-26.42	-26.42	-0.00	-0.00	-0.00	-0.00					
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
6 50	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	2-12	74.86	64.59	60.08	-15.82	24.04	46.42	77.95	69.96	46.88	82.36	86.74					
	13-23	-0.00	73.97	78.84	32.51	18.34	60.08	69.07	51.00	69.96	69.96	64.59					
6 50	24-29	82.36	77.95	-0.00	77.95	77.95	69.07	86.74	77.95	-0.00	77.95	69.52					
	31-41	78.40	69.07	77.95	77.95	86.74	82.36	46.42	82.36	79.28	116.77	3.90					
	42-52	73.52	73.52	73.52	64.59	56.46	37.64	46.42	82.36	79.28	116.77	3.90					
	53-59	-0.98	73.52	69.07	73.52	77.95	69.07	69.07	73.52	69.07	77.95	69.52					
6 50	61-71	73.97	69.07	8.75	-20.85	189.99	51.91	64.59	64.59	64.59	79.28	-144.22					
	72-82	55.55	55.55	133.53	197.81	69.52	64.59	-0.00	-0.00	-137.30	79.28	-144.22					
	83-89	96.74	-101.17	-71.84	112.55	-163.43	-163.66	-137.92	-0.00	-0.00	79.28	-144.22					
	91-101	-157.08	-125.57	-157.08	166.17	18.82	-0.00	-205.04	-0.00	-126.18	-63.13	-0.00					
6 50	102-112	77.07	41.35	77.51	-0.00	-0.00	-0.00	55.10	68.62	-0.00	59.18	-0.00					
	113-119	-68.58	95.44	95.01	86.74	86.31	-21.35	-26.42	-0.00	-0.00	-0.00	-0.00					
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
6 50	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	2-12	74.86	64.59	60.08	-15.82	24.04	46.42	77.95	69.96	46.88	82.36	86.74					
	13-23	-0.00	73.97	78.84	32.51	18.34	60.08	69.07	51.00	69.96	69.96	64.59					
	24-29	82.36	77.95	-0.00	77.95	77.95	69.07	86.74	77.95	-0.00	77.95	69.52					
6 50	31-41	78.40	69.07	77.95	77.95	86.74	82.36	46.42	82.36	79.28	116.77	3.90					
	42-52	73.52	73.52	73.52	64.59	56.46	37.64	46.42	82.36	79.28	116.77	3.90					
	53-59	-0.98	73.52	69.07	73.52	77.95	69.07	69.07	73.52	69.07	77.95	69.52					
	61-71	73.97	69.07	8.75	-20.85	189.99	51.91	64.59	64.59	64.59	79.28	-144.22					
6 50	72-82	55.55	55.55	133.53	197.81	69.52	64.59	-0.00	-0.00	-137.30	79.28	-144.22					
	83-89	96.74	-101.17	-71.84	112.55	-163.43	-163.66	-137.92	-0.00	-0.00	79.28	-144.22					
	91-101	-157.08	-125.57	-157.08	166.17	18.82	-0.00	-205.04	-0.00	-126.18	-63.13	-0.00					
	102-112	77.07	41.35	77.51	-0.00	-0.00	-0.00	55.10	68.62	-0.00	59.18	-0.00					
6 50	113-119	-68.58	95.44	95.01	86.74	86.31	-21.35	-26.42	-0.00	-0.00	-0.00	-0.00					
	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. II-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUVAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																
7	0	2-12	73.97	64.59	56.46	-20.34	24.04	46.42	74.86	73.52	46.42	82.36	86.74	73.52	51.00	69.52	82.36	86.74
		13-23	-0.00	73.52	82.36	28.76	18.34	60.08	69.07	51.00	60.08	73.52	64.59	69.52	77.95	69.07	73.52	64.59
		24-29	78.84	78.40	-0.00	77.95	77.95	82.36	86.74	77.95	82.36	86.74	77.95	77.95	82.36	86.74	77.95	77.95
		31-41	77.95	69.07	77.95	60.08	56.46	41.81	42.73	69.07	69.07	69.07	64.59	64.59	64.59	64.59	64.59	64.59
		42-52	73.52	73.52	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
		53-59	-0.98	73.52	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
		61-71	73.52	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
		72-82	55.55	55.55	133.94	-0.00	-0.00	64.59	-0.00	64.59	64.59	64.59	64.59	64.59	64.59	64.59	64.59	64.59
		83-89	95.44	-101.75	-73.48	109.31	-183.43	-163.66	-137.92	-0.00	-163.66	-137.92	-137.92	-137.92	-137.92	-137.92	-137.92	-137.92
		91-101	-157.08	125.57	-163.00	166.17	18.34	-15.82	-205.04	-0.00	-15.82	-205.04	-205.04	-205.04	-205.04	-205.04	-205.04	-205.04
		102-112	68.17	36.71	73.08	-0.00	-0.00	98.89	68.17	72.63	-0.00	-68.58	-0.00	-68.58	-0.00	-68.58	-0.00	-0.00
		113-119	-74.03	95.01	95.01	86.31	86.31	-21.35	-26.42	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7	20	2-12	-0.00	64.59	56.01	-20.95	23.57	46.42	74.41	73.52	46.42	82.36	86.74	73.52	51.00	69.07	82.36	86.74
		13-23	-0.00	73.52	82.36	27.82	15.48	60.08	69.07	51.00	60.08	73.52	64.59	69.07	77.95	69.07	73.52	64.59
		24-29	79.28	77.95	-0.00	77.95	77.95	82.36	83.24	77.95	82.36	86.74	77.95	77.95	82.36	86.74	77.95	77.95
		31-41	77.95	69.52	75.30	77.95	86.74	82.36	83.24	77.95	82.36	86.74	77.95	77.95	82.36	86.74	77.95	77.95
		42-52	73.52	73.52	71.85	60.08	56.01	41.81	42.73	69.07	69.07	69.07	64.59	64.59	64.59	64.59	64.59	64.59
		53-59	-5.89	71.30	69.07	73.52	77.95	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38
		61-71	73.52	69.07	18.34	-29.91	197.81	51.00	64.59	56.46	60.99	-5.89	-25.91	-143.58	83.24	-144.22	-144.22	-144.22
		72-82	55.55	55.55	133.53	201.70	73.52	64.59	-0.00	-0.00	-137.92	-68.03	-0.00	-68.03	-0.00	-68.03	-0.00	-0.00
		83-89	99.75	-101.17	-78.99	112.55	-183.43	-163.66	-137.92	-0.00	-137.92	-68.03	-0.00	-68.03	-0.00	-68.03	-0.00	-0.00
		91-101	-157.08	-125.57	-163.66	170.18	23.09	-10.64	-205.04	86.31	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		102-112	77.07	41.35	77.51	-0.00	-0.00	103.19	72.63	86.31	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-0.00	95.44	95.01	83.24	86.31	-16.32	-21.35	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7	40	2-12	-0.00	60.08	56.01	-25.40	23.57	46.42	73.52	73.52	46.42	82.36	86.74	73.52	46.42	69.07	82.36	86.74
		13-23	-0.00	73.52	82.36	27.82	18.34	60.08	69.07	46.42	60.08	73.52	64.59	69.07	77.95	69.07	73.52	64.59
		24-29	82.36	77.95	-0.00	77.95	77.95	82.36	86.74	77.95	82.36	86.74	77.95	77.95	82.36	86.74	77.95	77.95
		31-41	77.95	69.07	75.30	77.95	86.74	82.36	86.74	77.95	82.36	86.74	77.95	77.95	82.36	86.74	77.95	77.95
		42-52	73.52	73.52	73.52	60.08	55.55	46.42	42.27	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95
		53-59	-5.89	73.52	69.07	73.52	77.95	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
		61-71	73.52	69.07	23.09	-25.91	201.70	51.45	64.59	55.55	60.08	-5.89	-25.91	-149.32	86.74	-144.22	-144.22	-144.22
		72-82	55.55	55.55	137.67	-0.00	73.52	64.59	-0.00	-0.00	-137.92	-68.03	-0.00	-68.03	-0.00	-68.03	-0.00	-0.00
		83-89	104.04	-95.96	-78.99	116.77	-183.43	-163.66	-137.92	-0.00	-163.66	-137.92	-137.92	-137.92	-137.92	-137.92	-137.92	-137.92
		91-101	-157.08	-125.57	-163.66	174.17	23.09	-5.89	-205.04	-0.00	-5.89	-205.04	-205.04	-205.04	-205.04	-205.04	-205.04	-205.04
		102-112	82.87	41.35	90.67	-0.00	-0.00	103.19	64.14	77.51	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-62.59	95.44	95.01	82.80	86.31	-16.32	-20.34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS-9-3414, EXP. 11-A, FIRST TEST DAY (1-7-65)
 TEST POINT NO. 4, SOLAR ON, LUNAR OFF, FACING SOLAR
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
0	0	2-12	73.52	60.08	56.01	-25.40	23.09	42.73	73.52	73.52	73.52	41.81	82.36	86.74	86.74	86.74	86.74
		13-23	-0.00	73.52	92.36	27.82	18.34	60.08	69.52	46.42	55.55	55.55	77.95	65.04	65.04	65.04	65.04
0	0	24-29	78.40	78.40	-0.00	77.95	77.95	69.07	86.74	78.40	-0.00	86.74	77.95	69.07	69.07	69.07	69.07
		31-41	77.95	69.52	78.40	77.95	86.74	82.80	42.27	73.52	73.52	73.52	129.37	3.90	3.90	3.90	3.90
		42-52	69.96	73.97	69.07	55.55	55.55	46.42	69.52	73.52	73.52	73.52	129.37	3.90	3.90	3.90	3.90
0	0	53-59	-5.89	73.52	69.07	73.52	77.95	69.52	69.52	73.52	73.52	73.52	129.37	3.90	3.90	3.90	3.90
		61-71	73.52	69.52	23.57	-30.50	205.58	51.45	64.59	51.00	60.08	60.08	-5.89	-25.91	-25.91	-25.91	-25.91
		72-82	52.55	55.55	137.67	-0.00	73.52	64.59	-0.00	-0.00	-150.60	-150.60	86.74	-144.22	-144.22	-144.22	-144.22
		83-89	104.84	-101.17	-84.58	116.77	-183.43	-163.00	-137.30	-0.00	-137.92	-137.92	86.74	-144.22	-144.22	-144.22	-144.22
0	0	91-101	-156.43	-125.57	-159.68	173.77	18.34	-10.34	-205.04	-0.00	-137.92	-137.92	86.74	-144.22	-144.22	-144.22	-144.22
		102-112	85.87	41.35	86.31	-0.00	-0.00	107.46	68.62	86.31	-0.00	-0.00	77.07	-0.00	-0.00	-0.00	-0.00
		113-119	-0.00	95.44	95.01	82.80	86.31	-11.33	-16.32	-0.00	-0.00	-0.00	77.07	-0.00	-0.00	-0.00	-0.00
	-0	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
0	20	2-12	73.52	55.55	55.55	-29.99	23.09	41.81	73.52	73.52	73.52	41.81	78.40	86.74	86.74	86.74	86.74
		13-23	-0.00	73.52	92.36	27.82	13.56	60.08	69.07	41.81	51.91	51.91	74.41	65.04	65.04	65.04	65.04
		24-29	78.40	77.95	70.00	77.95	77.95	69.07	86.74	78.40	-0.00	-0.00	77.95	69.07	69.07	69.07	69.07
0	20	31-41	77.95	69.52	77.95	77.95	86.74	82.36	86.74	78.40	-0.00	-0.00	77.95	69.07	69.07	69.07	69.07
		42-52	69.07	73.97	69.52	55.55	55.55	46.42	41.81	73.52	73.52	73.52	129.78	3.90	3.90	3.90	3.90
		53-59	-5.89	73.52	59.07	73.52	77.95	69.07	69.52	51.00	60.08	60.08	-5.89	-29.99	-29.99	-29.99	-29.99
0	20	61-71	73.52	69.52	27.82	-30.50	209.45	51.45	64.59	-0.00	-150.60	-150.60	86.74	-144.22	-144.22	-144.22	-144.22
		72-82	55.55	55.55	137.67	2.3.30	73.52	64.59	-0.00	-0.00	-144.22	-144.22	86.74	-144.22	-144.22	-144.22	-144.22
		83-89	104.84	-100.58	-94.02	116.77	-183.43	-163.66	-137.92	-0.00	-144.22	-144.22	86.74	-144.22	-144.22	-144.22	-144.22
0	20	91-101	-157.08	-125.57	-169.01	174.17	23.09	-10.34	-205.04	-0.00	-144.22	-144.22	86.74	-144.22	-144.22	-144.22	-144.22
		102-112	85.87	45.96	95.87	-0.00	-0.00	111.70	77.51	95.01	-0.00	-0.00	81.92	-0.00	-0.00	-0.00	-0.00
		113-119	-73.48	95.87	95.01	82.80	86.31	-10.84	-11.33	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	-0	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
0	40	2-12	73.52	55.55	56.01	-30.50	23.09	41.81	73.52	73.52	73.52	41.81	78.40	86.74	86.74	86.74	86.74
		13-23	-0.00	73.52	92.36	27.82	13.56	60.08	69.07	41.81	55.55	55.55	77.95	65.04	65.04	65.04	65.04
		24-29	78.40	77.95	-0.00	77.95	77.95	69.07	86.74	78.40	-0.00	-0.00	77.95	69.07	69.07	69.07	69.07
0	40	31-41	77.95	69.52	78.40	77.95	86.74	82.80	42.27	73.52	73.52	73.52	129.37	3.90	3.90	3.90	3.90
		42-52	69.07	73.97	69.52	51.45	55.55	46.42	69.52	78.40	-0.00	-0.00	77.95	69.07	69.07	69.07	69.07
		53-59	-10.34	73.52	69.07	73.52	77.95	69.07	69.52	73.52	73.52	73.52	133.53	3.90	3.90	3.90	3.90
0	40	61-71	73.52	69.52	28.76	-30.50	209.45	55.55	64.59	51.00	60.08	60.08	-5.89	-30.50	-30.50	-30.50	-30.50
		72-82	55.55	55.55	137.67	217.14	73.52	64.59	-0.00	-0.00	-150.60	-150.60	86.74	-144.22	-144.22	-144.22	-144.22
		83-89	-0.00	-0.00	-84.58	-0.00	-190.52	-163.66	-143.58	-0.00	-137.92	-137.92	86.74	-144.22	-144.22	-144.22	-144.22
0	40	91-101	-157.08	-150.60	-170.36	-0.00	-0.00	-0.00	-212.54	-0.00	-137.92	-137.92	86.74	-144.22	-144.22	-144.22	-144.22
		102-112	-0.00	-0.00	81.92	-0.00	-0.00	-0.00	-0.00	95.01	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-78.99	-0.00	95.01	82.80	86.31	-6.38	-11.33	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	-0	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

EXPERIMENT II-a

Test Day No. 2

SPACECRAFT SIMULATION

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-A, SECOND TEST DAY (1-7-65 AND 1-8-65)
 TEST POINT NO. 1, SOLAR OFF, SPACECRAFT HEATERS OFF,
 THERMAL JUMMY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TIME CHANNELS	68.52	73.08	69.52	73.08	73.08	68.62	73.52	9999.00	69.07	73.08	73.08
21 27 2- 12	68.62	73.08	69.52	73.08	73.08	68.62	73.52	9999.00	69.07	73.08	73.08
13- 23	9999.00	73.08	64.59	64.14	64.59	69.52	64.14	68.62	73.52	73.52	73.52
24- 29	73.52	69.07	73.52	73.52	73.08	73.08	73.08	9999.00	73.08	73.08	73.52
21 27 31- 41	73.52	73.08	73.08	73.52	73.08	73.08	73.08	9999.00	73.08	73.08	73.52
42- 52	73.52	68.62	69.52	69.07	73.08	73.08	64.14	64.14	68.62	68.62	64.59
21 27 53- 59	64.14	73.08	73.08	73.08	73.08	73.08	64.59	64.59	64.14	64.14	32.04
21 27 61- 71	73.08	73.08	69.52	73.08	73.08	9999.00	9999.00	41.35	64.14	64.14	32.04
72- 82	73.08	69.07	73.08	73.08	73.08	22.62	22.62	27.35	26.87	26.87	46.42
21 27 83- 89	55.10	59.55	41.55	18.34	50.54	27.35	9999.00	27.35	69.07	69.07	9999.00
21 27 91-101	22.62	18.34	36.71	59.63	73.08	69.07	73.08	9999.00	69.07	69.07	9999.00
102-112	46.42	46.42	9999.00	9999.00	9999.00	82.36	82.36	82.36	82.36	82.36	9999.00
113-120	17.37	73.08	73.08	73.08	73.08	73.08	73.08	73.08	73.08	73.08	73.08
21 29 2- 12	69.07	68.62	73.08	73.08	73.08	68.62	73.08	68.62	73.08	73.08	73.08
13- 23	9999.00	73.08	64.59	64.14	64.59	73.08	59.63	68.62	73.08	73.08	73.52
24- 29	73.52	73.08	73.52	73.97	73.08	73.08	73.08	9999.00	73.08	73.08	73.52
21 29 51- 41	73.52	73.52	73.08	73.52	73.52	73.08	73.08	9999.00	73.08	73.08	73.52
42- 52	69.52	73.08	69.07	64.59	69.52	69.52	64.59	65.04	69.07	69.07	64.59
21 29 53- 59	64.59	73.52	73.52	73.52	73.52	69.52	64.59	65.04	69.07	69.07	64.59
21 29 61- 71	73.52	73.52	69.52	73.52	73.52	69.52	64.59	65.04	64.59	64.59	18.34
72- 82	73.52	69.07	73.52	73.52	73.52	9999.00	9999.00	37.17	55.55	55.55	18.34
21 29 83- 89	37.17	52.55	32.51	18.34	8.75	8.75	46.42	8.75	22.62	22.62	32.04
21 29 91-101	13.56	8.75	27.82	19.34	55.55	18.82	9999.00	-1.46	73.52	73.52	9999.00
102-112	32.04	36.71	9999.00	9999.00	9999.00	68.62	73.52	9999.00	73.52	73.52	9999.00
113-120	3.42	73.52	73.08	73.52	72.63	81.92	9999.00	81.92	81.92	81.92	9999.00
21 31 2- 12	69.07	69.07	73.52	73.52	73.52	69.07	73.52	69.07	69.07	69.07	73.52
13- 23	9999.00	73.52	65.14	64.59	64.59	73.97	60.08	64.59	77.95	77.95	73.52
24- 29	73.97	73.52	73.52	73.97	73.52	73.52	73.52	9999.00	73.52	73.52	73.52
21 31 51- 41	73.52	73.52	73.52	73.52	73.52	73.52	73.52	9999.00	73.52	73.52	73.52
42- 52	69.07	73.52	65.04	69.07	73.52	69.07	64.59	64.59	69.07	69.07	64.59
21 31 53- 59	64.59	73.52	73.52	73.52	73.52	73.52	64.59	69.07	60.08	60.08	60.08
21 31 61- 71	69.07	73.52	69.52	73.52	73.52	9999.00	9999.00	27.82	46.42	46.42	3.90
72- 82	73.52	69.07	73.52	73.52	73.52	9999.00	9999.00	27.82	46.42	46.42	3.90
21 31 83- 89	8.75	51.00	27.82	-0.98	37.64	-5.89	9999.00	-15.82	9.71	9.71	-1.46
21 31 91-101	-4.90	-2.40	18.34	46.88	73.52	8.75	9999.00	-15.82	9.71	9.71	-1.46
102-112	-1.45	-10.34	-6.39	9999.00	9999.00	68.62	73.08	9999.00	72.19	72.19	9999.00
113-120	-11.33	73.52	73.08	73.52	73.08	81.92	9999.00	81.92	81.92	81.92	9999.00
21 33 2- 12	69.52	69.07	69.52	73.52	73.52	69.07	73.52	69.07	73.52	73.52	73.52
13- 23	9999.00	73.52	65.14	64.59	64.59	69.96	55.55	64.59	74.41	74.41	73.52
24- 29	73.52	69.96	73.52	73.52	73.52	73.52	73.52	9999.00	73.52	73.52	73.52
21 33 51- 41	73.52	73.97	73.52	73.52	73.52	73.97	73.52	9999.00	73.52	73.52	73.52
42- 52	69.07	73.52	65.04	69.52	73.52	69.52	64.59	64.59	69.07	69.07	64.59
21 33 53- 59	64.59	73.52	69.96	69.96	70.41	69.96	69.52	69.96	69.07	69.07	64.59
21 33 61- 71	69.96	70.85	73.52	69.52	70.41	69.52	64.59	65.49	60.08	60.08	60.08
72- 82	73.52	69.07	70.41	73.52	73.52	9999.00	9999.00	18.34	27.82	27.82	-14.32
21 33 83- 89	-31.01	43.19	18.34	-41.35	-14.32	-24.39	9999.00	18.34	27.82	27.82	-14.32
21 33 91-101	-20.85	-15.82	3.90	-36.16	37.17	-4.90	9999.00	-31.53	-0.98	-0.98	-40.83
102-112	-36.63	-51.34	-51.87	9999.00	9999.00	68.62	73.08	9999.00	71.74	71.74	9999.00
113-120	-26.42	73.97	73.08	73.52	72.63	80.60	9999.00	80.60	80.60	80.60	9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-A, SECOND TEST DAY (1-7-65 AND 1-8-65)
 TEST POINT NO. 1, SOLAR OFF, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS

TEMPERATURES - FAHRENHEIT

21 35	2- 12	69.07	65.49	69.07	69.96	73.52	69.96	69.52	73.97	69.52	69.96	73.52
	13- 23	9999.00	73.52	73.52	65.04	64.59	65.94	70.41	55.55	61.44	73.97	73.52
	24- 29	73.97	73.52	9999.00	73.52	73.52	73.52					
21 35	31- 41	73.52	70.41	73.52	73.08	73.52	73.08	73.08	73.08	9999.00	73.08	70.41
	42- 52	69.52	73.52	68.62	64.14	69.52	73.08	69.07	64.14	64.59	69.52	64.14
	53- 59	64.14	69.96	69.52	69.96	69.96	69.96	69.07				
21 35	51- 71	69.52	73.08	73.08	65.49	65.49	69.52	68.62	64.14	65.04	55.10	57.37
	72- 82	73.08	69.52	64.59	69.52	73.08	73.08	9999.00	9999.00	8.27	13.08	-30.50
	83- 89	-68.53	36.71	8.27	-68.73	-26.42	17.87	-36.68	9999.00	-47.11	-14.32	-74.57
21 35	91-101	-36.63	-30.30	-6.39	-57.74	22.62	73.08	-16.32	73.08	9999.00	71.74	9999.00
	102-112	-69.12	-85.71	-85.71	9999.00	9999.00	68.62	68.62	73.08	9999.00	71.74	9999.00
	113-120	-42.39	73.97	76.19	73.08	73.52	77.95	77.95	9999.00			
21 36	2- 12	69.07	65.04	68.62	69.52	73.08	69.52	69.52	73.08	68.62	69.52	73.08
	13- 23	9999.00	73.08	73.52	64.59	64.14	65.49	69.96	50.54	59.63	73.52	73.52
	24- 29	73.52	69.52	9999.00	73.52	73.97	73.08					
21 36	31- 41	73.52	70.41	73.52	70.41	73.52	73.08	73.08	73.08	9999.00	73.08	70.41
	42- 52	69.07	73.52	69.07	60.99	69.07	73.08	69.07	64.14	64.14	69.07	64.14
	53- 59	64.14	69.96	69.07	69.96	69.96	69.52	69.07				
21 36	51- 71	69.52	69.96	69.96	65.49	69.96	69.52	69.07	64.14	65.04	55.10	56.01
	72- 82	69.96	65.49	64.14	69.52	73.08	73.08	9999.00	9999.00	-0.98	-0.98	-41.87
	83- 89	-94.81	27.35	0.00	-89.67	-40.31	8.75	-47.11	9999.00	-30.50	-24.89	-97.11
21 36	91-101	-46.59	-40.83	-16.32	-73.48	13.08	73.08	-30.50	73.08	-58.28	-24.89	-97.11
	102-112	-91.39	-108.19	-108.73	9999.00	9999.00	69.07	69.07	73.08	9999.00	71.74	9999.00
	113-120	-52.43	74.41	77.07	9999.00	73.52	77.95	77.95	9999.00			
21 38	2- 12	69.07	65.04	68.62	69.07	69.96	69.52	69.07	73.08	68.62	69.52	73.08
	13- 23	9999.00	73.08	73.08	64.59	64.14	65.04	69.52	50.54	59.63	73.52	73.52
	24- 29	73.52	69.52	9999.00	73.52	73.97	73.08					
21 38	31- 41	73.52	70.41	70.85	73.08	73.52	73.52	73.08	73.08	9999.00	73.08	73.52
	42- 52	69.07	73.08	68.62	59.63	69.52	69.96	69.07	64.14	64.14	69.07	64.14
	53- 59	60.99	69.96	69.07	68.52	69.52	69.52	68.62				
21 38	51- 71	69.52	69.52	69.52	64.14	69.07	69.52	68.62	60.08	65.04	50.54	55.10
	72- 82	69.52	65.04	64.14	69.07	73.08	73.08	9999.00	9999.00	-6.38	-9.84	-57.20
	83- 89	-107.60	22.52	-5.89	-101.17	-47.11	-0.98	-56.67	9999.00	-6.38	-9.84	-57.20
21 38	91-101	-52.40	-47.11	-26.42	-83.46	4.88	69.52	-40.31	9999.00	-69.12	-32.04	-108.78
	102-112	-102.91	-120.72	-125.57	9999.00	9999.00	69.07	69.07	73.52	9999.00	68.17	9999.00
	113-120	-58.23	77.51	76.63	73.52	73.08	77.51	77.51	9999.00			
21 40	2- 12	69.52	64.59	69.07	69.52	70.41	69.96	69.96	74.41	69.07	69.96	73.52
	13- 23	9999.00	73.52	73.52	65.04	64.59	65.94	69.96	47.79	60.08	74.41	73.52
	24- 29	73.52	70.41	9999.00	73.52	73.52	73.52					
21 40	31- 41	71.33	70.41	74.41	73.52	73.52	73.52	73.97	73.97	9999.00	73.52	70.41
	42- 52	69.07	73.97	69.52	60.08	69.96	70.41	69.52	65.04	65.04	69.52	61.44
	53- 59	60.54	70.41	69.07	69.96	70.41	69.07	69.07				
21 40	51- 71	69.96	69.96	69.52	64.59	69.52	69.07	65.94	60.08	65.49	51.00	55.55
	72- 82	69.52	65.04	60.08	69.52	70.41	70.41	9999.00	9999.00	-15.82	-15.82	-66.42
	83- 89	-118.31	13.34	-10.84	-107.60	-57.20	-9.35	-62.05	9999.00	-15.82	-15.82	-66.42
21 40	91-101	-57.20	-55.60	-31.01	-90.24	0.00	69.07	-46.59	9999.00	-77.88	-41.87	-119.51
	102-112	-114.12	-126.18	-132.33	9999.00	9999.00	68.62	68.62	71.74	9999.00	68.62	9999.00
	113-120	-62.59	77.95	77.07	73.97	73.08	77.51	77.51	9999.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-7-65 AND 1-8-65)
 TEST POINT NO. 1, SOLAR OFF, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

21 42	2- 12	69.52	60.99	69.07	69.07	70.41	69.96	69.07	74.41	69.52	69.96	73.52
	13- 23	9999.00	73.52	73.52	65.04	64.59	65.49	69.96	46.42	56.46	73.97	73.52
	24- 29	73.52	69.96	9999.00	73.52	73.52	70.41					
21 42	31- 41	73.52	69.96	73.52	73.52	73.52	73.52	73.52	73.97	9999.00	73.52	70.41
	42- 52	69.07	73.97	69.96	56.92	69.52	69.96	69.07	64.59	64.59	69.52	60.54
21 42	53- 59	60.54	69.96	69.07	69.07	70.41	69.07	69.07				
	61- 71	69.96	69.52	69.07	64.59	69.07	69.07	65.49	60.08	65.49	46.42	55.55
	72- 82	69.07	64.59	60.08	69.07	73.52	70.41	9999.00	9999.00	-25.40	-20.85	-73.48
	83- 89	-124.97	10.20	-15.82	-113.52	-68.03	-20.34	-67.49				
21 42	91-101	-62.59	-62.05	-41.35	-95.38	-5.40	69.07	-57.20	9999.00	-85.14	-52.40	-126.18
	102-112	-124.35	-137.30	-138.55	9999.00	9999.00	68.62	68.62	72.19	9999.00	68.62	9999.00
	113-120	-68.03	77.95	77.51	73.52	73.08	77.07	77.51	9999.00			
21 44	2- 12	69.96	60.08	69.07	69.07	70.41	69.96	69.07	73.97	69.07	69.96	73.52
	13- 23	9999.00	73.52	73.52	65.04	64.59	65.49	69.96	46.42	55.55	73.97	73.52
	24- 29	73.52	69.96	9999.00	73.52	73.52	70.41					
21 44	31- 41	73.52	69.96	73.08	73.52	73.52	73.52	73.52	73.97	9999.00	73.52	70.41
	42- 52	69.07	73.97	69.07	53.55	69.52	69.96	69.07	65.04	65.04	69.52	60.08
	53- 59	60.08	69.96	69.07	69.07	64.59	69.07	65.04	60.08	65.04	46.42	51.45
21 44	61- 71	69.52	69.52	69.07	68.62	73.08	69.52	9999.00	9999.00	-35.64	-26.42	-84.02
	72- 82	69.07	64.59	55.55	-124.97	-79.55	-31.53	-73.48				
	83- 89	-131.71	3.90	-20.85	-101.17	-15.32	69.07	-68.03	9999.00	-96.53	-63.13	-132.95
21 44	91-101	-68.03	-68.03	-51.34	-101.17	-15.32	69.07	-68.03	72.19	9999.00	69.07	9999.00
	102-112	-132.65	-143.58	-145.49	9999.00	9999.00	68.62	68.62	77.95	9999.00	69.07	9999.00
	113-120	-74.03	77.51	77.95	73.08	73.52	77.07	77.95	9999.00			
21 45	2- 12	69.52	59.63	68.62	69.52	69.52	69.52	69.52	73.08	68.62	69.52	73.08
	13- 23	9999.00	73.08	73.08	64.59	64.14	65.04	69.07	45.96	55.10	73.52	73.52
	24- 29	73.52	69.52	9999.00	73.52	73.52	69.96					
21 46	31- 41	73.52	73.52	73.08	73.08	73.52	73.08	73.08	73.08	9999.00	73.08	69.96
	42- 52	69.07	73.52	69.07	55.10	69.07	69.52	68.62	64.14	64.14	69.07	59.63
	53- 59	59.63	69.52	68.62	68.62	69.52	68.62	68.62	59.63	64.59	41.81	50.54
21 46	61- 71	69.07	68.52	68.62	59.53	68.62	68.62	64.59	9999.00	-41.87	-35.64	-90.81
	72- 82	68.62	64.14	55.10	68.52	73.08	69.07	9999.00	9999.00			
	83- 89	-137.92	-1.46	-26.42	-131.99	-90.81	-47.11	-78.44				
21 46	91-101	-72.93	-73.48	-57.74	-107.01	-21.35	65.04	-78.99	9999.00	108.19	74.57	-138.55
	102-112	-137.92	-145.49	-151.89	9999.00	9999.00	69.07	69.07	69.07	9999.00	70.41	9999.00
	113-120	-80.11	77.51	77.95	73.08	73.52	76.19	77.51	9999.00			
21 47	2- 12	69.07	56.01	68.62	65.04	69.52	69.52	69.07	73.08	68.62	69.52	73.08
	13- 23	9999.00	73.08	73.08	64.14	64.14	65.04	69.07	45.96	55.10	73.08	73.52
	24- 29	73.52	69.07	9999.00	73.52	73.52	69.52					
21 48	31- 41	73.52	69.96	73.08	73.08	73.52	73.08	73.52	73.52	9999.00	73.08	69.96
	42- 52	65.49	73.08	68.62	51.45	69.07	69.07	68.62	64.14	64.14	69.07	59.63
	53- 59	59.63	69.07	68.62	68.62	69.52	69.07	68.62	59.63	64.59	41.35	50.54
21 48	61- 71	69.07	68.52	68.62	59.53	68.62	68.62	64.59	9999.00	-52.40	40.83	-96.53
	72- 82	68.62	64.14	55.10	68.52	73.08	69.07	9999.00	9999.00			
	83- 89	-143.58	-6.38	-31.01	-135.67	-96.53	-57.74	-84.02				
21 48	91-101	-74.03	-78.44	-66.96	-108.19	-26.42	64.14	-90.81	9999.00	-120.72	-85.71	-144.85
	102-112	-144.22	-151.89	-157.73	9999.00	9999.00	69.07	69.07	71.74	9999.00	69.07	9999.00
	113-120	-85.14	77.95	77.95	73.08	73.52	73.52	76.63	9999.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-7-65 AND 1-8-65)
 TEST POINT NO. 1, SOLAR OFF, SPACECRAFT HEATERS OFF,
 THERMAL JUMMY HEATERS OFF

TIME	C-HANNELS	TEMPERATURES - FAHRENHEIT											
21	50	69.52	55.55	69.07	65.04	69.96	69.96	69.96	69.52	73.52	69.07	69.96	73.52
		9999.00	70.41	73.52	64.59	64.59	65.49	65.49	69.52	42.73	51.91	74.41	73.52
21	50	73.52	73.52	9999.00	73.52	73.52	70.41	73.52	73.52	73.52	9999.00	73.52	69.96
		71.30	69.96	73.52	73.52	73.52	73.52	73.52	69.07	65.04	65.49	69.52	56.01
21	50	65.49	73.52	69.52	51.10	69.07	69.07	69.07	69.07	69.07	65.04	69.52	69.96
		60.03	69.96	69.07	69.07	69.96	69.52	69.52	69.07	69.07	65.04	69.52	46.88
21	50	69.52	69.07	65.04	56.72	69.07	65.49	65.49	64.59	56.01	65.04	37.64	46.88
		69.07	60.54	51.00	65.49	73.52	69.07	69.07	9999.00	9999.00	-68.03	-46.59	-112.33
21	50	-150.60	-18.83	-41.35	-142.95	-113.52	-78.99	-78.99	-90.24	9999.00	-132.33	-102.33	-151.24
		-82.91	-84.58	-78.44	-117.71	-36.16	61.44	61.44	-107.01	9999.00	9999.00	68.62	9999.00
21	50	-112.12	-157.73	-164.33	9999.00	9999.00	68.62	68.62	70.85	70.85	9999.00	68.62	9999.00
		-90.24	82.36	81.04	73.52	73.08	73.08	73.08	73.08	9999.00	73.08	9999.00	9999.00
22	0	59.07	47.33	69.07	60.08	69.52	69.52	69.52	69.96	73.52	69.07	69.96	73.52
		9999.00	69.52	73.52	64.59	60.99	65.04	65.04	69.07	41.81	51.00	73.52	70.41
22	0	70.41	70.41	9999.00	69.96	73.52	69.52	69.52	69.52	73.52	9999.00	73.52	69.07
		73.52	69.07	73.52	70.41	73.52	73.52	73.52	69.07	65.04	65.04	69.52	51.91
22	0	64.59	73.52	69.07	41.81	69.07	69.07	69.07	69.07	69.07	65.04	69.52	69.07
		55.53	69.07	65.49	65.49	69.52	69.07	69.07	65.49	69.07	65.49	69.52	51.91
22	0	69.07	69.07	60.08	51.70	65.04	64.59	64.59	60.54	51.91	64.59	32.51	41.81
		64.59	60.08	41.81	64.59	69.96	69.07	69.07	9999.00	9999.00	-95.96	-62.59	-137.30
22	0	-170.36	-36.16	-57.20	-157.08	-143.58	-119.51	-119.51	-101.75	9999.00	-157.73	-132.33	-164.33
		-95.96	-101.75	-101.75	-131.19	-57.20	55.55	55.55	-143.58	9999.00	9999.00	67.73	9999.00
22	0	-171.04	-171.04	-177.87	9999.00	9999.00	67.28	67.28	67.73	68.62	9999.00	67.73	9999.00
		-107.60	86.74	86.31	73.52	73.08	68.62	68.62	68.62	9999.00	68.62	9999.00	9999.00
22	10	69.07	41.81	69.07	52.37	69.07	69.07	69.07	69.07	73.52	69.07	69.96	73.52
		9999.00	69.07	73.52	60.54	60.08	65.04	65.04	69.07	38.57	51.00	73.97	69.96
22	10	69.96	69.96	9999.00	69.07	73.52	69.07	69.07	69.07	69.96	9999.00	70.41	69.07
		70.41	69.07	69.96	69.52	73.52	73.52	73.52	74.41	69.96	64.59	69.07	47.79
22	10	64.59	73.52	69.07	33.44	65.49	64.59	64.59	64.59	64.59	64.59	69.07	47.79
		51.00	69.07	65.04	65.14	69.07	65.04	65.04	65.04	65.04	60.54	69.07	47.79
22	10	69.07	65.49	51.91	46.42	64.59	60.54	60.54	60.08	47.79	60.54	27.82	37.17
		64.59	55.46	37.17	60.08	69.07	65.49	65.49	9999.00	9999.00	-112.33	-78.99	9999.00
22	10	9999.00	-131.71	-72.38	-170.36	-157.08	-149.32	-149.32	-113.52	9999.00	-183.43	-155.78	-177.87
		-106.43	-119.51	-107.60	-142.95	-131.71	-118.31	-118.31	-103.00	9999.00	9999.00	64.14	9999.00
22	10	-184.84	-177.87	-190.52	9999.00	9999.00	64.14	64.14	64.14	64.14	9999.00	64.14	9999.00
		-113.52	91.10	90.23	73.97	73.08	64.14	64.14	64.14	9999.00	64.14	9999.00	9999.00
22	20	68.62	37.17	64.59	45.96	68.62	68.62	68.62	68.62	73.52	68.62	69.07	73.08
		9999.00	69.07	73.08	59.63	59.63	64.14	64.14	68.62	37.17	46.88	73.52	69.07
22	20	69.52	68.52	9999.00	69.07	73.52	68.62	68.62	68.62	69.52	9999.00	69.07	69.07
		69.96	69.52	68.62	68.52	73.52	73.52	73.52	73.52	69.52	9999.00	69.07	69.07
22	20	64.59	73.08	64.59	27.42	64.14	64.14	64.14	59.63	64.59	64.14	68.62	45.96
		50.54	69.07	65.04	65.14	69.07	65.04	65.04	64.59	64.59	64.14	68.62	45.96
22	20	69.07	65.04	46.42	41.91	60.99	60.08	60.08	60.08	46.42	60.08	23.57	37.17
		60.08	55.55	32.98	60.08	64.59	64.59	64.59	9999.00	9999.00	-125.57	-84.58	-170.36
22	20	-197.65	-119.51	-78.99	-176.49	-170.36	-163.66	-163.66	-119.51	9999.00	-125.57	-84.58	-170.36
		-112.93	-125.57	-124.97	-149.32	-101.75	-78.99	-78.99	-176.49	9999.00	-184.84	-170.36	-191.24
22	20	-199.13	-190.52	-199.13	9999.00	9999.00	64.14	64.14	64.14	64.14	9999.00	64.14	9999.00
		-125.57	95.44	90.67	77.95	73.08	59.63	59.63	59.63	59.63	59.63	59.63	59.63

APU-10 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-7-65 AND 1-8-65)
 TEST POINT NO. 1, SOLAR OFF, SPACECRAFT HEATERS OFF,
 THERMAL JUMMY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

22	30	2-12	68.62	32.04	64.59	41.35	64.14	65.49	69.07	73.08	65.04	69.07	73.08
		13-23	9999.00	68.52	73.08	59.53	59.63	64.59	65.49	36.71	46.88	73.08	69.07
		24-29	69.95	69.07	9999.00	69.07	70.41	68.62	73.52	69.52	9999.00	69.07	69.07
22	30	31-41	69.07	69.07	68.62	69.52	73.08	73.08	65.04	64.59	64.14	68.62	41.35
		42-52	60.54	73.08	65.04	23.57	64.14	56.46	65.04	42.27	56.01	22.62	32.04
		53-59	45.95	68.52	64.14	64.59	68.62	64.14	64.14	9999.00	-136.67	-90.24	-177.18
22	30	51-71	64.59	64.14	41.35	32.38	59.63	56.01	59.63	42.27	56.01	22.62	32.04
		72-82	59.63	53.35	28.76	56.46	64.59	60.08	9999.00	9999.00	-136.67	-90.24	-177.18
		83-89	-205.04	-137.92	-84.59	-182.73	-177.18	-175.12	-125.57	9999.00	9999.00	9999.00	9999.00
22	30	91-101	-118.31	-136.05	-129.85	-193.78	-131.71	-112.33	-183.43	9999.00	9999.00	-177.87	-199.13
		102-112	-206.53	-197.66	-206.53	9999.00	9999.00	59.63	62.34	64.14	9999.00	59.63	9999.00
		113-120	-131.71	99.97	95.01	77.45	77.07	55.10	55.10	9999.00	9999.00	55.10	9999.00
22	40	2-12	65.49	27.82	64.59	53.91	64.59	65.49	65.49	69.52	65.49	69.07	70.41
		13-23	9999.00	65.49	73.52	58.46	56.92	60.54	65.04	57.17	46.42	73.52	69.07
		24-29	69.07	69.07	9999.00	65.49	69.52	65.94	65.04	69.52	46.42	73.52	69.07
22	40	31-41	69.07	65.04	66.83	69.44	73.52	73.52	74.41	69.52	9999.00	69.07	65.04
		42-52	60.08	73.52	64.59	19.40	60.08	55.55	64.59	64.59	64.59	69.07	38.57
		53-59	42.73	63.94	64.59	64.59	69.07	64.59	64.59	41.81	55.55	18.82	28.76
22	40	51-71	65.49	64.59	32.51	27.82	60.08	60.08	60.08	9999.00	-143.58	-100.58	-182.73
		72-82	55.55	52.37	27.82	55.55	60.08	60.08	9999.00	9999.00	-143.58	-100.58	-182.73
		83-89	-212.54	-163.66	-94.23	-184.13	-184.13	-177.18	-131.71	9999.00	9999.00	9999.00	9999.00
22	40	91-101	-124.35	-144.22	-131.71	-161.68	-157.08	-149.96	-189.80	9999.00	-199.13	-182.73	-206.53
		102-112	-214.05	-203.78	-213.30	9999.00	9999.00	59.63	59.63	62.79	9999.00	59.63	9999.00
		113-120	-137.92	99.75	95.01	77.45	77.51	50.54	50.54	9999.00	9999.00	50.54	9999.00
23	0	2-12	65.04	23.09	60.08	24.24	60.08	64.59	65.49	69.07	64.59	69.07	70.41
		13-23	9999.00	64.59	73.52	53.35	55.55	60.08	64.59	33.44	46.42	73.52	66.83
		24-29	69.07	69.07	9999.00	65.04	69.52	65.04	65.04	69.52	46.42	73.52	66.83
23	0	31-41	69.07	64.59	65.94	65.04	73.52	73.52	74.41	69.52	9999.00	69.07	64.59
		42-52	57.37	69.52	64.59	13.56	56.01	46.42	64.59	64.59	60.99	65.04	37.17
		53-59	38.57	65.04	64.59	64.59	69.07	64.59	60.54	64.59	60.99	65.04	37.17
23	0	51-71	65.04	64.59	19.30	18.34	55.55	52.37	56.46	37.17	51.91	18.34	27.82
		72-82	55.55	51.00	23.57	52.37	56.01	55.55	9999.00	9999.00	-150.60	-101.17	-184.13
		83-89	-220.97	-170.36	-95.95	-190.52	-189.80	-175.81	-142.32	9999.00	-150.60	-101.17	-184.13
23	0	91-101	-131.09	-153.78	-137.92	-163.66	-157.08	-155.78	-196.93	9999.00	-205.04	-184.84	-213.30
		102-112	-221.74	-206.53	-214.05	9999.00	9999.00	57.37	57.82	59.63	9999.00	55.10	9999.00
		113-120	-144.85	99.75	98.03	77.45	77.51	41.35	41.35	9999.00	9999.00	41.35	9999.00
23	20	2-12	64.59	18.34	55.55	18.34	55.55	60.54	64.59	69.07	60.08	69.07	69.96
		13-23	9999.00	64.59	73.52	51.00	52.37	60.08	60.54	28.76	43.19	69.96	64.59
		24-29	69.07	69.07	9999.00	64.59	69.96	64.59	60.54	69.07	43.19	69.96	64.59
23	20	31-41	69.07	61.44	65.04	64.59	73.52	70.41	73.52	69.07	9999.00	69.07	64.59
		42-52	55.55	69.07	60.08	13.56	55.55	38.57	60.08	64.59	60.54	64.59	32.51
		53-59	37.17	65.04	60.99	64.59	65.94	60.54	60.08	64.59	60.54	64.59	32.51
23	20	51-71	65.04	61.44	9.71	9.73	51.91	51.00	56.01	32.98	51.00	13.56	23.09
		72-82	51.00	51.00	19.30	51.00	55.55	55.55	9999.00	9999.00	-155.78	-101.17	-189.80
		83-89	-220.97	-170.36	-101.17	-196.93	-190.52	-175.81	-144.22	9999.00	-155.78	-101.17	-189.80
23	20	91-101	-136.67	-157.08	-143.58	-170.36	-157.08	-157.08	-197.66	9999.00	-206.53	-191.24	-214.06
		102-112	-221.74	-213.30	-220.19	9999.00	9999.00	55.10	55.10	55.10	9999.00	55.10	9999.00
		113-120	-149.95	99.75	95.01	77.45	77.51	32.04	32.04	9999.00	9999.00	32.04	9999.00

APO-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 WAS 9-3414, EXP. II-A, SECOND TEST DAY (1-7-65 AND 1-8-65)
 TEST POINT NO. 1, SOLAR OFF, SPACECRAFT HEATERS OFF,
 THERMAL JUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
23	40	2-12	60.03	18.34	51.00	9.75	52.37	60.08	64.59	69.07	60.08	69.07	69.52
		13-23	9999.01	60.99	69.95	51.00	51.45	60.08	60.08	27.82	41.81	69.07	64.59
		24-29		65.49	9999.00	60.08	69.07	60.54					
23	40	31-41	65.94	60.08	64.59	60.34	73.52	69.96	73.52	65.94	9999.00	69.07	60.08
		42-52	55.55	69.07	60.03	9.75	51.00	32.98	60.08	64.59	60.54	64.59	27.82
		53-59	32.51	64.59	60.54	64.59	65.49	60.08	60.08				
23	40	51-71	64.59	60.54	3.90	3.90	51.00	51.00	51.00	32.51	51.00	13.56	23.09
		72-82	51.00	45.88	18.82	45.88	52.37	51.45	9999.00	9999.00	157.08	-101.75	-190.52
		83-89	-227.22	-177.18	-101.75	-197.56	-191.24	-150.60					
23	40	91-101	-142.95	-163.00	-144.22	-175.49	-163.00	-204.29	9999.00	9999.00	206.53	-191.96	-220.19
		102-112	-221.74	-214.06	-221.74	9999.00	9999.00	50.54	50.54	55.10	9999.00	50.54	9999.00
		113-120	-156.43	99.75	98.45	77.35	77.51	3.42	3.42	9999.00			
24	0	2-12	60.03	13.56	51.00	3.90	51.00	56.46	60.99	65.49	56.01	69.07	69.07
		13-23	9999.00	60.08	69.95	45.42	47.79	66.46	60.08	24.04	41.81	69.07	61.44
		24-29	65.49	65.49	9999.00	60.08	69.07	60.08					
24	0	31-41	64.59	60.08	60.54	60.36	70.41	69.07	73.52	65.49	9999.00	69.07	58.73
		42-52	52.37	69.07	56.45	9.75	46.42	28.29	55.55	60.99	60.08	60.08	27.82
		53-59	29.23	64.59	60.03	64.59	65.49	60.08	60.08				
24	0	51-71	64.59	60.08	-5.89	-0.98	47.33	46.42	55.55	28.76	46.88	9.71	18.34
		72-82	47.79	45.42	18.34	45.42	51.00	51.00	9999.00	9999.00	157.08	-105.84	-196.93
		83-89	-226.01	-183.43	-101.75	-205.78	-196.93	-177.18					
24	0	91-101	-148.63	-169.01	-149.95	-182.73	-169.01	-170.36	9999.00	9999.00	212.54	-191.96	-220.97
		102-112	-229.60	-214.06	-221.74	9999.00	9999.00	49.63	50.08	50.54	9999.00	49.63	9999.00
		113-120	-157.73	99.75	98.89	77.35	77.51	-68.58	-68.58	9999.00			
0	20	2-12	50.63	13.56	46.42	-4.90	46.42	55.55	60.08	65.04	55.55	65.04	69.07
		13-23	9999.00	60.08	69.52	45.42	40.88	55.55	55.55	23.09	41.81	69.07	60.08
		24-29	64.59	62.04	9999.00	56.46	69.52	60.08					
0	20	31-41	64.59	56.46	60.03	60.36	68.52	69.07	73.52	65.04	9999.00	65.04	60.08
		42-52	51.00	62.04	55.55	4.99	42.73	23.09	55.55	60.08	60.08	60.08	23.09
		53-59	27.82	64.59	60.03	60.39	65.04	60.08	60.08				
0	20	51-71	64.59	60.08	-10.84	-10.84	46.42	46.42	55.55	27.82	46.42	8.75	18.34
		72-82	46.42	46.42	13.55	41.81	51.00	51.00	9999.00	9999.00	157.08	-107.60	-197.66
		83-89	-228.80	-184.13	-101.75	-205.74	-198.39	-176.49					
0	20	91-101	-150.60	-170.36	-150.60	-184.13	-170.36	-176.49	9999.00	9999.00	214.06	-191.96	-221.74
		102-112	-229.60	-220.19	-221.74	9999.00	9999.00	49.63	49.63	49.63	9999.00	45.96	9999.00
		113-120	-163.65	99.75	99.32	77.35	77.51	-126.18	-131.09	9999.00			
0	40	2-12	9999.00	9.23	41.81	-10.34	42.73	55.55	60.08	64.59	52.37	64.59	65.49
		13-23	9999.00	55.46	69.07	41.41	46.42	55.55	55.55	23.09	38.10	65.04	60.08
		24-29	64.59	64.59	9999.00	55.55	69.07	56.92					
0	40	31-41	63.24	55.55	60.03	56.31	69.07	69.07	73.52	64.59	9999.00	64.59	56.01
		42-52	51.00	65.04	55.55	3.90	41.81	19.30	51.91	60.08	56.92	60.08	23.09
		53-59	24.04	64.59	60.03	60.54	64.59	60.08	56.46				
0	40	51-71	61.44	60.08	-15.82	-15.82	41.81	46.42	55.55	27.82	46.42	8.75	13.56
		72-82	46.42	42.27	13.55	41.81	51.00	47.33	9999.00	9999.00	162.34	-107.60	-197.66
		83-89	-228.80	-189.80	-101.75	-205.74	-198.39	-176.49					
0	40	91-101	-155.78	-175.12	-150.60	-189.80	-175.12	-177.18	9999.00	9999.00	212.54	-191.96	-221.74
		102-112	-229.60	-214.06	-221.74	9999.00	9999.00	45.96	45.96	45.96	9999.00	45.96	9999.00
		113-120	-163.65	99.75	99.75	74.96	77.07	-229.60	-237.65	9999.00			

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-A, SECOND TEST DAY (1-7-65 AND 1-8-65)
 TEST POINT NO. 1, SOLAR OFF, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF

TIME	C CHANNELS	TEMPERATURES - FAHRENHEIT											
1	0	2-12	55.55	9.75	41.81	-15.32	41.81	51.00	60.08	61.44	51.00	64.59	64.59
		15-23	9999.00	55.55	69.07	41.81	41.81	52.37	52.82	19.77	37.17	64.59	60.08
		24-29	61.89	60.08	9999.00	55.55	65.49	55.55					
1	0	31-41	64.59	55.55	56.01	55.55	69.07	69.07	69.52	64.59	9999.00	64.59	55.55
		42-52	47.79	64.59	51.00	3.90	32.98	14.04	51.00	60.08	56.46	55.55	19.30
		53-59	23.57	60.99	60.08	60.08	64.59	56.01	55.55				
1	0	51-71	60.54	60.08	-20.85	-20.85	41.81	42.27	52.37	23.57	42.27	4.39	13.56
		72-82	46.42	41.81	9.23	37.17	46.42	46.42	9999.00	9999.00	-162.34	-107.60	-198.39
		83-89	-228.80	-191.24	-101.75	-211.78	-196.93	-176.49	-163.66	9999.00	9999.00	9999.00	9999.00
1	0	91-101	-157.08	-175.91	-157.08	-191.24	-175.91	-177.18	-205.78	9999.00	9999.00	-184.84	-228.01
		102-112	-229.60	-218.65	-221.74	9999.00	9999.00	41.35	45.04	45.96	9999.00	41.35	9999.00
		113-120	-164.53	99.75	99.75	73.52	76.63	-229.60	-237.65	9999.00	9999.00	9999.00	9999.00
1	20	2-12	52.37	9.75	37.17	-20.84	37.17	51.00	56.01	60.54	48.25	64.59	64.59
		13-23	9999.00	55.55	69.07	37.54	41.81	51.00	51.45	18.34	37.17	64.59	56.01
		24-29	60.03	60.08	9999.00	51.31	65.04	55.55					
1	20	31-41	65.04	51.91	55.55	55.55	69.07	65.04	69.07	60.99	9999.00	64.59	55.55
		42-52	46.42	64.59	51.00	-0.49	37.17	13.56	51.00	56.46	56.46	55.55	18.82
		53-59	23.09	60.08	60.08	60.08	64.59	55.55	55.55				
1	20	51-71	60.03	56.46	-25.91	-25.40	37.17	41.81	51.00	23.09	41.81	3.90	9.71
		72-82	43.19	41.81	8.75	33.44	46.42	46.42	9999.00	9999.00	-163.00	-112.93	-198.39
		83-89	-228.80	-191.24	-101.75	-212.54	-198.39	-177.18	-170.36	9999.00	9999.00	9999.00	9999.00
1	20	91-101	-162.34	-175.91	-157.08	-191.24	-177.18	-184.13	-205.78	9999.00	9999.00	-189.09	-221.74
		102-112	-229.60	-220.19	-221.74	9999.00	9999.00	41.35	36.71	41.35	9999.00	41.35	9999.00
		113-120	-170.35	99.75	99.75	73.52	73.08	-221.74	-229.60	9999.00	9999.00	9999.00	9999.00
1	40	2-12	51.00	9999.00	37.17	-20.85	33.91	47.33	55.10	60.08	46.88	64.59	64.59
		13-23	9999.00	51.91	65.94	37.17	38.10	51.00	50.08	18.34	37.17	61.44	55.55
		24-29	60.03	60.08	9999.00	51.00	64.59	55.55					
1	40	31-41	60.54	51.00	52.82	51.45	65.04	64.59	69.07	60.08	9999.00	64.59	55.55
		42-52	46.42	60.54	51.00	-0.98	32.51	8.75	46.42	55.55	55.55	55.55	18.34
		53-59	18.34	60.08	60.08	60.08	64.59	55.55	55.55				
1	40	51-71	60.03	55.55	-30.50	-25.91	33.91	42.27	51.00	23.09	41.81	3.90	8.75
		72-82	41.81	37.64	8.75	32.51	46.42	43.19	9999.00	9999.00	-157.08	-113.52	-205.04
		83-89	-228.80	-189.38	-101.75	-191.24	-176.49	-176.49	-170.36	9999.00	9999.00	9999.00	9999.00
1	40	91-101	-163.65	-172.81	-150.60	-197.56	-177.18	-182.03	-205.04	9999.00	9999.00	-184.84	-221.74
		102-112	-229.60	-214.06	-221.74	9999.00	9999.00	36.71	36.71	41.35	9999.00	41.35	9999.00
		113-120	-169.63	100.61	99.75	73.52	73.08	-221.74	-228.80	9999.00	9999.00	9999.00	9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 2, SOLAR OFF, CONTACT WITH COLD SPACECRAFT,
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
1	40	51.00	-0.00	37.17	-20.85	33.91	47.33	55.10	60.08	46.88	64.59	60.08	18.34	37.17	61.44	64.59	55.55
	13-23	-0.00	51.91	65.94	37.17	38.10	51.00	50.08	18.34	37.17	61.44	60.08	18.34	37.17	61.44	64.59	55.55
	24-29	60.08	60.08	-0.00	51.00	64.59	55.55	50.08	18.34	37.17	61.44	60.08	18.34	37.17	61.44	64.59	55.55
1	40	60.54	51.00	52.82	51.45	65.04	64.59	69.07	60.08	-0.00	64.59	60.08	60.08	-0.00	64.59	55.55	55.55
	42-52	46.42	60.54	51.00	-0.98	32.51	6.75	46.42	55.55	55.55	55.55	60.08	55.55	55.55	55.55	55.55	18.34
1	40	18.34	60.08	60.08	60.08	33.91	42.27	55.55	23.09	41.81	3.90	23.09	23.09	41.81	3.90	3.90	8.75
	61-71	60.08	55.55	-30.50	-25.91	33.91	42.27	55.55	-0.00	-157.08	-113.52	-0.00	-0.00	-157.08	-113.52	-205.04	-205.04
	72-82	41.81	37.64	6.75	32.51	46.42	45.19	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	83-89	-228.80	-188.38	-101.75	-191.24	-176.49	-176.49	-170.36	-0.00	-213.30	-184.84	-0.00	-0.00	-213.30	-184.84	-221.74	-221.74
1	40	-163.66	-175.81	-150.60	-197.66	-177.18	-182.03	-205.04	41.35	-0.00	36.71	41.35	-0.00	-0.00	36.71	-0.00	-0.00
	102-112	-229.60	-214.06	-221.74	-0.00	-0.00	36.71	36.71	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	-169.68	100.61	99.75	73.52	73.08	-221.74	-228.60	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
1	45	51.00	-0.00	33.91	-25.40	33.44	46.88	55.55	60.08	46.42	61.44	60.08	18.82	37.17	64.59	64.59	55.55
	13-23	-0.00	52.37	65.94	37.17	37.64	51.00	51.45	18.82	37.17	64.59	60.08	18.82	37.17	64.59	64.59	55.55
	24-29	60.08	60.08	-0.00	51.00	64.59	55.55	50.08	18.82	37.17	64.59	60.08	18.82	37.17	64.59	64.59	55.55
1	45	60.54	51.45	55.55	51.00	65.49	64.59	69.07	60.08	-0.00	64.59	60.08	60.08	-0.00	64.59	51.91	51.91
	42-52	46.42	60.08	60.08	-0.98	32.51	8.75	46.42	55.55	55.55	55.55	60.08	55.55	55.55	55.55	18.34	18.34
	53-59	18.34	60.08	60.08	60.08	64.59	55.55	55.55	60.08	60.08	64.59	60.08	60.08	60.08	64.59	64.59	64.59
1	45	60.08	55.55	-30.50	-30.50	33.44	41.81	51.45	23.09	41.81	3.90	23.09	-0.00	-157.08	-113.52	-205.78	-205.78
	61-71	60.08	55.55	-30.50	-30.50	33.44	41.81	51.45	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	72-82	41.81	37.64	6.75	32.51	46.42	42.73	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	83-89	-228.01	-184.13	-101.75	-212.54	-191.24	-169.68	-169.68	-0.00	-206.53	-184.84	-0.00	-0.00	-206.53	-184.84	-220.97	-220.97
1	45	-163.66	-170.36	-150.60	-197.66	-175.81	-177.18	-205.04	41.35	-0.00	36.71	41.35	-0.00	-0.00	36.71	-0.00	-0.00
	102-112	-228.80	-214.06	-220.14	-0.00	-0.00	36.71	36.71	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	-170.36	161.47	99.75	74.41	73.08	-237.65	-243.41	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
1	47	51.45	-0.00	37.17	-24.89	33.44	46.88	55.55	60.08	46.42	64.59	60.08	18.34	37.17	65.04	64.59	55.55
	13-23	-0.00	51.45	69.07	37.17	37.64	51.00	51.00	18.34	37.17	65.04	60.08	18.34	37.17	65.04	64.59	55.55
	24-29	60.08	60.08	-0.00	51.00	64.59	55.55	50.08	18.34	37.17	65.04	60.08	18.34	37.17	65.04	64.59	55.55
1	47	60.04	51.45	55.55	51.00	65.04	64.59	69.07	60.08	-0.00	64.59	60.08	60.08	-0.00	64.59	55.55	55.55
	42-52	46.42	60.08	60.08	-0.98	32.51	6.75	46.42	55.55	55.55	55.55	60.08	55.55	55.55	55.55	55.55	18.34
1	47	18.34	60.08	60.08	60.08	64.59	55.55	55.55	23.09	41.81	3.90	23.09	23.09	41.81	3.90	3.90	8.75
	61-71	60.08	55.55	-30.50	-30.50	32.98	41.81	51.45	-0.00	-157.08	-113.52	-0.00	-0.00	-157.08	-113.52	-205.78	-205.78
	72-82	41.81	37.17	6.75	32.51	42.27	42.27	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	83-89	-228.01	-170.36	-101.75	-212.54	-191.24	-169.68	-170.36	-0.00	-206.53	-184.84	-0.00	-0.00	-206.53	-184.84	-221.74	-221.74
1	47	-163.66	-170.36	-150.60	-191.24	-143.58	-170.36	-204.29	-0.00	-206.53	-184.84	-0.00	-0.00	-206.53	-184.84	-221.74	-221.74
	102-112	-227.22	-214.06	-220.19	-0.00	-0.00	36.71	36.71	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	-170.36	104.04	99.75	74.41	73.08	-244.25	-251.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 MAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 2. SOLAR OFF. CONTACT WITH COLD SPACECRAFT.
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																			
1	49	2-12	51.00	-0.00	33.91	-24.89	32.98	46.88	55.55	60.08	46.42	60.99	64.59	13-23	51.45	51.45	10.34	37.17	61.44	55.55	
		13-23	-0.00	51.45	65.94	37.17	37.64	51.45	51.00	55.55	37.17	37.64	51.45	51.00	60.08	64.59	60.08	64.59	64.59	51.91	55.55
1	49	24-29	60.08	60.08	0.00	51.00	64.59	55.55	69.07	60.08	-0.00	60.99	64.59	31-41	51.00	64.59	55.55	55.55	51.91	55.55	55.55
		31-41	60.08	51.00	55.55	51.00	65.49	64.59	69.07	60.08	-0.00	60.99	64.59	42-52	51.00	64.59	55.55	55.55	51.91	55.55	55.55
1	49	53-59	18.34	60.08	60.08	60.08	64.59	55.55	55.55	60.08	64.59	55.55	55.55	61-71	60.08	64.59	55.55	55.55	51.91	55.55	55.55
		61-71	60.08	55.55	-30.50	-31.01	32.98	42.27	51.00	23.09	41.81	3.90	8.75	72-82	41.81	41.81	-0.00	-157.08	-113.52	-211.78	-211.78
1	49	83-89	-227.22	-163.66	-101.75	-212.54	-191.24	-169.01	-169.68	-0.00	-206.53	-109.09	-228.19	91-101	-163.00	-170.36	-131.71	-163.00	-204.29	-228.19	-228.19
		91-101	-163.00	-170.36	-150.60	-191.24	-131.71	-163.00	-204.29	-204.29	-206.53	-109.09	-228.19	102-112	-228.01	-214.06	-0.00	-0.00	36.71	36.71	-0.80
0		113-119	-170.36	101.04	102.33	73.97	73.08	-291.85	-254.43	-0.00	-0.00	-0.00	-0.00	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	2-12	51.00	-0.00	33.44	-25.40	46.88	55.55	60.99
1	50	13-23	-0.00	51.45	65.94	37.17	37.64	51.45	51.00	55.55	37.17	37.64	51.45	13-23	-0.00	51.45	65.94	37.17	46.88	55.55	60.99
		24-29	60.08	60.08	0.00	51.00	64.59	55.55	69.07	60.08	64.59	55.55	55.55	24-29	60.08	64.59	55.55	55.55	37.17	55.55	60.99
1	50	31-41	60.08	51.00	32.37	51.00	65.04	64.59	69.96	60.08	-0.00	64.59	64.59	31-41	60.08	51.00	32.37	51.00	69.96	60.08	64.59
		42-52	46.42	60.08	47.79	-0.98	32.51	6.75	46.42	55.55	55.55	55.55	55.55	42-52	46.42	60.08	47.79	-0.98	46.42	55.55	64.59
1	50	53-59	18.34	60.08	60.08	60.08	64.59	55.55	55.55	60.08	64.59	55.55	55.55	53-59	18.34	60.08	60.08	60.08	55.55	55.55	64.59
		61-71	60.08	55.55	-30.50	-31.01	32.98	39.49	51.45	23.09	41.81	3.90	8.75	61-71	60.08	55.55	-30.50	-31.01	32.98	39.49	51.45
		72-82	41.81	37.64	6.75	32.51	41.81	41.81	0.00	-0.00	-157.08	-113.52	-211.78	72-82	41.81	37.64	6.75	32.51	41.81	0.00	-0.00
1	50	83-89	-227.22	-157.08	-101.75	-212.54	-191.24	-170.36	-169.68	-0.00	-206.53	-104.84	-219.42	83-89	-227.22	-157.08	-101.75	-212.54	-191.24	-170.36	-169.68
		91-101	-162.34	-169.68	-150.60	-191.24	-125.57	-157.08	-204.29	-204.29	-206.53	-104.84	-219.42	91-101	-162.34	-169.68	-150.60	-191.24	-125.57	-157.08	-204.29
		102-112	-227.22	-213.30	-220.19	-0.00	-0.00	-0.00	-263.22	-263.22	-0.00	-0.00	-0.00	102-112	-227.22	-213.30	-220.19	-0.00	-0.00	-0.00	-0.00
0		113-119	-170.36	104.04	102.33	74.41	73.08	-260.55	-0.00	-0.00	-0.00	-0.00	-0.00	113-119	-170.36	104.04	102.33	74.41	73.08	-260.55	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
1	52	2-12	51.00	-0.00	33.44	-25.40	32.51	46.42	55.55	60.08	45.50	60.99	61.44	13-23	51.45	51.45	18.34	37.17	60.99	55.55	
		13-23	-0.00	51.45	65.94	37.17	37.64	51.45	51.00	55.55	37.17	37.64	51.45	13-23	-0.00	51.45	65.94	37.17	46.42	55.55	60.99
1	52	24-29	60.08	60.08	0.00	51.00	64.59	55.55	69.07	60.08	-0.00	60.99	64.59	24-29	60.08	64.59	55.55	55.55	51.91	55.55	55.55
		31-41	60.08	51.00	52.37	51.00	65.49	64.59	69.52	60.08	-0.00	60.99	64.59	31-41	60.08	51.00	52.37	51.00	69.52	60.08	64.59
		42-52	46.42	60.08	51.00	-0.98	32.51	6.75	46.42	55.55	55.55	55.55	55.55	42-52	46.42	60.08	51.00	-0.98	46.42	55.55	64.59
1	52	53-59	18.34	60.08	50.08	60.08	64.59	55.55	55.55	60.08	64.59	55.55	55.55	53-59	18.34	60.08	50.08	60.08	55.55	55.55	64.59
		61-71	60.08	55.55	-31.01	-31.01	32.51	39.03	50.54	23.09	41.81	3.90	8.75	61-71	60.08	55.55	-31.01	-31.01	32.51	39.03	50.54
		72-82	41.81	37.17	5.36	30.17	41.81	41.81	0.00	-0.00	-157.08	-113.52	-211.78	72-82	41.81	37.17	5.36	30.17	41.81	0.00	-0.00
1	52	83-89	-228.01	-155.13	-101.75	-213.30	-191.24	-170.36	-170.36	-0.00	-206.53	-104.84	-228.19	83-89	-228.01	-155.13	-101.75	-213.30	-191.24	-170.36	-170.36
		91-101	-163.66	-169.68	-150.60	-191.24	-127.41	-156.39	-204.29	-204.29	-206.53	-104.84	-228.19	91-101	-163.66	-169.68	-150.60	-191.24	-127.41	-156.39	-204.29
		102-112	-227.22	-213.30	-220.19	-0.00	-0.00	-0.00	-263.22	-263.22	-0.00	-0.00	-0.00	102-112	-227.22	-213.30	-220.19	-0.00	-0.00	-0.00	-0.00
0		113-119	-171.04	104.04	102.33	73.97	73.08	-260.55	-275.08	-275.08	-0.00	-0.00	-0.00	113-119	-171.04	104.04	102.33	73.97	73.08	-260.55	-275.08
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (11-8-65)
 TEST POINT NO. 2, SOLAR OFF, CONTACT WITH COLD SPACECRAFT,
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT													
1	54	2-12	51.45	-0.00	33.44	-25.40	32.51	46.42	55.55	60.08	46.42	60.99	60.99	60.99	60.99
		13-23	-0.00	51.91	65.94	37.17	38.10	51.00	51.00	18.62	34.38	60.99	60.99	60.99	55.55
1	54	24-29	60.08	60.08	-0.00	51.00	64.59	55.55	69.07	60.08	-0.00	64.59	64.59	64.59	51.91
		31-41	60.08	51.00	52.37	51.00	65.04	64.59	46.42	55.55	55.55	51.45	51.45	51.45	15.00
		42-52	46.42	60.08	47.79	-0.98	32.51	8.75	55.55	60.08	55.55	51.45	51.45	51.45	15.00
1	54	53-59	18.34	60.08	60.08	60.08	64.59	55.55	55.55	23.09	41.81	3.90	3.90	3.90	8.75
		61-71	60.08	55.55	-31.01	31.01	32.51	41.81	51.91	-0.00	-157.08	-113.52	-113.52	-113.52	-211.78
		72-82	41.81	37.17	5.36	32.51	41.81	41.81	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
1	54	83-89	-228.01	-150.60	-101.75	-212.54	-191.24	-169.68	-170.36	-0.00	-206.53	-184.84	-184.84	-184.84	-220.19
		91-101	-163.66	-169.01	-150.60	-196.20	-125.57	-155.78	-204.29	36.71	-0.00	36.24	36.24	36.24	-0.00
		102-112	-227.22	-213.30	-220.19	-0.00	-0.00	36.24	36.24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-170.36	104.04	102.76	74.41	73.08	-272.30	-278.84	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
1	56	2-12	51.00	-0.00	32.98	-25.91	32.51	46.42	55.55	58.73	46.42	60.54	60.54	60.54	60.99
		13-23	-0.00	51.91	65.49	37.17	37.17	51.00	49.17	18.34	33.91	60.99	60.99	60.99	55.55
1	56	24-29	60.08	56.92	-0.00	51.00	64.59	52.37	69.07	60.08	-0.00	64.59	64.59	64.59	51.45
		31-41	60.08	51.00	52.37	51.00	64.59	64.59	46.42	55.55	55.55	51.45	51.45	51.45	14.84
		42-52	46.42	60.08	47.33	-0.98	32.51	8.75	55.55	60.08	55.55	51.45	51.45	51.45	14.84
1	56	53-59	18.34	60.08	60.08	60.08	64.59	55.55	55.55	23.09	38.57	3.90	3.90	3.90	6.33
		61-71	60.08	55.55	-31.01	31.53	32.51	39.03	51.00	-0.00	-157.08	-113.52	-113.52	-113.52	-212.54
		72-82	41.81	37.17	4.88	32.51	41.81	41.81	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	-228.01	-150.60	-101.75	-212.54	-191.24	-170.36	-170.36	-0.00	-206.53	-184.84	-184.84	-184.84	-220.97
1	56	91-101	-163.66	-169.68	-150.60	-196.93	-125.57	-153.83	-205.04	36.71	-0.00	36.71	36.71	36.71	-0.00
		102-112	-227.22	-213.30	-220.19	-0.00	-0.00	36.24	36.24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-176.49	104.04	102.76	73.97	73.08	-272.30	-280.75	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
1	58	2-12	51.00	-0.00	32.98	-25.91	32.51	46.42	55.55	60.08	46.42	60.54	60.54	60.54	60.99
		13-23	-0.00	51.45	65.49	37.17	38.10	51.00	51.00	18.34	33.91	60.99	60.99	60.99	55.55
1	58	24-29	60.08	60.08	-0.00	51.00	64.59	55.55	69.52	60.08	-0.00	64.59	64.59	64.59	51.45
		31-41	60.08	51.00	51.51	51.00	65.04	64.59	46.42	55.55	55.55	51.00	51.00	51.00	14.52
		42-52	46.42	60.08	47.33	-0.98	32.51	8.75	55.55	60.08	55.55	51.00	51.00	51.00	14.52
1	58	53-59	18.34	60.08	60.08	60.08	64.59	55.55	55.55	23.09	38.57	3.90	3.90	3.90	6.75
		61-71	60.08	55.55	-31.01	31.01	32.51	41.81	51.45	-0.00	-157.08	-113.52	-113.52	-113.52	-212.54
		72-82	41.81	37.17	4.88	29.23	41.81	41.81	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	-228.80	-149.96	-101.75	-212.54	-191.24	-169.68	-170.36	-0.00	-206.53	-184.84	-184.84	-184.84	-220.97
1	58	91-101	-163.66	-169.01	-150.60	-191.24	-124.97	-150.60	-205.04	36.71	-0.00	36.24	36.24	36.24	-0.00
		102-112	-221.74	-214.06	-220.19	-0.00	-0.00	36.24	36.24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-177.18	104.04	103.61	73.52	73.08	-272.30	-281.70	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 2, SOLAR OFF, CONTACT WITH COLD SPACECRAFT,
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																
2	0	51.00	-0.00	32.51	-25.91	32.51	46.42	55.55	60.08	46.42	60.08	46.42	60.08	60.54	60.08	46.42	60.08	60.54
		-0.00	51.00	65.49	37.17	38.10	51.00	51.00	18.34	37.17	60.54	37.17	60.54	55.55	18.34	37.17	60.54	55.55
2	0	60.08	60.08	-0.00	51.00	64.59	55.55	69.52	60.08	-0.00	64.59	64.59	64.59	51.45	55.55	-0.00	64.59	51.45
		46.42	60.08	51.00	-0.98	32.51	8.75	46.42	55.55	51.00	8.75	46.42	55.55	55.55	55.55	55.55	51.00	14.04
2	0	18.34	60.08	60.08	60.08	64.59	55.55	55.55	23.09	41.81	3.90	8.75	55.55	0.75	-0.00	-157.08	-113.52	-212.54
		41.81	37.17	4.68	29.23	41.81	41.81	51.00	-0.00	41.81	3.90	8.75	55.55	0.75	-0.00	-157.08	-113.52	-212.54
2	0	-226.80	-144.22	-101.75	-212.54	-191.24	-169.68	-170.36	-0.00	-191.24	-169.68	-170.36	-170.36	-221.74	-206.53	-206.53	-164.84	-221.74
		-163.66	-169.68	-150.60	-197.66	-119.51	-150.60	-205.04	-0.00	-119.51	-150.60	-205.04	-205.04	-221.74	-206.53	-206.53	-164.84	-221.74
2	0	-221.74	-214.06	-220.97	-0.00	73.08	-272.30	-272.30	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-177.18	104.04	103.19	73.52	73.08	-272.30	-272.30	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	4	51.00	-0.00	32.51	-25.91	32.51	46.42	55.55	60.08	44.58	60.54	44.58	60.54	60.54	60.08	44.58	60.54	60.54
		-0.00	51.00	65.49	37.17	36.24	51.00	51.00	18.34	33.91	60.54	33.91	60.54	55.55	18.34	33.91	60.54	55.55
2	4	60.08	60.08	-0.00	51.00	64.59	52.37	69.07	60.08	-0.00	64.59	64.59	64.59	51.91	55.55	-0.00	64.59	51.91
		46.42	60.08	51.00	-0.98	32.51	4.88	46.42	55.55	55.55	4.88	46.42	55.55	55.55	55.55	55.55	51.00	14.04
2	4	18.34	60.08	60.08	60.08	64.59	55.55	55.55	23.09	38.10	0.00	8.75	55.55	0.75	-0.00	-157.08	-113.52	-212.54
		41.81	37.17	4.68	29.26	37.64	42.27	51.00	-0.00	38.10	0.00	8.75	55.55	0.75	-0.00	-157.08	-113.52	-212.54
2	4	-226.80	-144.22	-101.75	-212.54	-191.24	-169.68	-170.36	-0.00	-191.24	-169.68	-170.36	-170.36	-220.97	-206.53	-206.53	-164.84	-220.97
		-163.66	-169.68	-150.60	-196.93	-124.36	-149.96	-205.04	-0.00	-124.36	-149.96	-205.04	-205.04	-220.97	-206.53	-206.53	-164.84	-220.97
2	4	-228.01	-214.06	-220.97	-0.00	73.08	-272.30	-272.30	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-177.18	104.04	103.19	73.97	73.08	-272.30	-272.30	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
2	10	51.00	-0.00	32.51	-29.99	32.51	46.42	55.55	60.08	46.42	60.08	46.42	60.08	60.08	60.08	46.42	60.08	60.08
		-0.00	51.00	65.49	37.17	37.17	51.00	51.00	18.34	33.44	60.54	33.44	60.54	55.55	18.34	33.44	60.54	55.55
2	10	60.08	60.08	-0.00	51.00	64.59	51.91	69.52	60.08	-0.00	64.59	64.59	64.59	51.00	55.55	-0.00	64.59	51.00
		46.42	60.08	51.00	-0.98	32.51	3.90	46.42	55.55	55.55	3.90	46.42	55.55	55.55	55.55	55.55	51.00	14.04
2	10	18.34	60.08	60.08	60.08	64.59	55.55	55.55	19.77	37.64	-0.49	8.75	55.55	0.75	-0.00	-157.08	-113.52	-213.38
		41.61	37.17	3.90	27.82	37.17	37.17	51.00	-0.00	37.64	-0.49	8.75	55.55	0.75	-0.00	-157.08	-113.52	-213.38
2	10	-227.22	-144.22	-101.75	-212.54	-190.52	-170.36	-176.49	-0.00	-190.52	-170.36	-176.49	-176.49	-220.97	-206.53	-206.53	-164.84	-220.97
		-169.68	-168.34	-150.60	-196.93	-124.36	-143.58	-204.29	-0.00	-124.36	-143.58	-204.29	-204.29	-220.97	-206.53	-206.53	-164.84	-220.97
2	10	-227.22	-214.06	-220.97	-0.00	73.08	-271.38	-272.30	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-177.18	104.04	103.19	73.97	73.08	-271.38	-272.30	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 2. SOLAR OFF. CONTACT WITH COLD SPACECRAFT.
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FARENHEIT																
2	20	2-12	-0.00	-0.00	32.51	-31.01	28.76	46.42	52.37	57.62	46.42	60.08	60.08	60.06				
		13-23	-0.00	51.45	65.04	33.91	37.17	47.79	51.00	18.34	32.98	60.08	60.08	55.55				
2	20	24-29	60.08	56.01	-0.00	51.00	64.59	51.45										
		31-41	60.08	48.71	51.00	51.00	64.59	64.59	66.83	60.08	-0.00	60.99	60.99	51.45				
		42-52	42.73	60.08	46.42	-0.98	28.29	3.90	43.19	52.37	52.37	51.00	51.00	13.56				
		53-59	14.52	60.08	56.46	60.08	61.44	52.82	52.37									
2	20	61-71	60.08	55.55	-36.16	-36.16	29.70	38.10	51.00	19.30	37.17	-0.49	-0.49	4.60				
		72-82	41.61	37.17	3.90	27.82	37.17	37.17	-0.00	-0.00	-157.06	-113.52	-113.52	-212.54				
		83-89	-227.22	-144.22	-101.75	-218.65	-190.52	-169.01	-177.18	-0.00								
2	20	91-101	-169.68	-167.57	-150.60	-198.93	-119.51	-142.95	-204.29	-0.00	-213.30	-184.84	-184.84	-221.74				
		102-112	-227.22	-213.30	-221.74	-0.00	-0.00	32.04	32.04	36.71	-0.00	32.04	32.04	-0.00				
		113-119	-177.18	104.90	103.19	73.52	73.08	-263.22	-272.30	-0.00	-0.00	-0.00	-0.00	-0.00				
-0		B01-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		B12-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		B23-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
2	30	2-12	51.00	-0.00	30.17	-30.50	27.82	43.19	51.91	60.08	42.73	60.08	60.08	60.08				
		13-23	-0.00	51.00	64.59	33.91	37.17	47.33	47.33	18.34	32.51	60.08	60.08	55.55				
		24-29	56.92	55.55	-0.00	47.33	62.79	51.00										
2	30	31-41	58.73	51.00	51.00	47.79	64.59	64.59	69.07	60.08	-0.00	60.99	60.99	51.00				
		42-52	42.27	60.08	47.33	-0.98	27.82	3.90	42.27	51.45	51.45	51.00	51.00	13.56				
		53-59	13.56	60.08	56.01	60.08	61.44	52.37	51.91									
2	30	61-71	60.08	55.55	-36.16	-36.16	28.76	37.64	51.00	18.62	37.17	-0.98	-0.98	3.90				
		72-82	41.61	37.17	3.90	27.82	37.17	37.17	-0.00	-0.00	-157.06	-113.52	-113.52	-212.54				
		83-89	-227.22	-144.22	-101.75	-218.65	-190.52	-169.01	-177.18	-0.00								
2	30	91-101	-170.36	-163.00	-150.60	-198.39	-124.36	-145.49	-204.29	-0.00	-214.06	-184.84	-184.84	-221.74				
		102-112	-228.01	-214.06	-220.97	-0.00	-0.00	32.04	32.04	35.78	-0.00	32.04	32.04	-0.00				
		113-119	-177.67	104.04	103.19	73.52	73.08	-263.22	-269.54	-0.00	-0.00	-0.00	-0.00	-0.00				
-0		B01-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		B12-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		B23-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
2	40	2-12	-0.00	-0.00	29.23	-35.13	27.82	42.27	51.91	56.92	41.81	60.08	60.08	60.08				
		13-23	-0.00	51.00	64.59	32.98	33.44	47.33	46.88	14.52	32.51	60.08	60.08	52.37				
		24-29	56.46	56.01	-0.00	46.42	64.59	51.00										
2	40	31-41	60.08	47.79	51.00	47.33	64.59	65.04	65.94	60.08	-0.00	60.54	60.54	51.00				
		42-52	41.81	60.08	47.33	-0.98	27.82	3.90	41.81	51.00	51.00	51.00	51.00	13.56				
		53-59	13.56	60.08	56.01	60.08	60.99	51.91	51.45									
2	40	61-71	60.08	55.55	-40.31	-40.31	27.82	37.17	51.00	19.30	37.17	-0.98	-0.98	3.90				
		72-82	41.81	37.17	3.90	27.82	37.17	37.17	-0.00	-0.00	-157.06	-113.52	-113.52	-212.54				
		83-89	-227.22	-144.22	-101.75	-219.42	-191.24	-170.36	-177.18	-0.00								
2	40	91-101	-170.36	-163.06	-155.13	-196.93	-124.36	-143.58	-204.29	-0.00	-206.53	-191.96	-191.96	-220.97				
		102-112	-227.22	-214.06	-220.19	-0.00	-0.00	28.76	32.04	32.04	-0.00	32.04	32.04	-0.00				
		113-119	-177.18	104.04	103.61	74.41	73.08	-254.43	-263.22	-0.00	-0.00	-0.00	-0.00	-0.00				
-0		B01-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		B12-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		B23-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 2, SOLAR OFF, CONTACT WITH COLD SPACECRAFT,
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
3	0	2-12	-0.00	-0.00	27.82	-36.16	24.04	41.81	51.00	56.01	41.81	60.08	60.08	41.81	60.08	60.08	
		13-23	-0.00	46.88	64.59	32.51	32.51	46.42	46.42	13.56	32.51	58.28	51.45	32.51	58.28	51.45	
3	0	24-29	55.55	55.55	-0.00	46.42	61.44	51.00	65.49	57.37	-0.00	60.08	51.00	51.00	47.33	10.20	
		31-41	60.08	46.42	47.79	46.42	64.59	60.99	41.81	51.00	51.00	60.08	51.00	51.00	47.33	10.20	
		42-52	41.81	56.92	46.42	-4.90	27.82	-0.49	41.81	51.00	51.00	60.08	51.00	51.00	47.33	10.20	
3	0	53-59	13.56	60.08	55.55	60.08	60.54	51.91	51.00	18.82	37.17	-0.98	3.90	37.17	-0.98	3.90	
		61-71	60.08	52.37	-41.35	-41.35	27.82	37.17	51.00	-0.00	-157.08	-117.71	-213.30	-157.08	-117.71	-213.30	
		72-82	38.57	32.98	3.90	23.52	32.98	37.17	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		83-89	-228.01	-143.58	-101.75	-219.42	-191.24	-169.68	-177.18	-0.00	-211.78	-191.96	-220.19	-211.78	-191.96	-220.19	
3	0	91-101	-170.36	-169.01	-155.13	-196.93	-124.36	-137.30	-205.04	-0.00	-0.00	27.35	-0.00	-0.00	27.35	-0.00	
		102-112	-227.22	-214.06	-220.19	-0.00	-0.00	27.35	27.35	32.04	-0.00	27.35	-0.00	-0.00	27.35	-0.00	
		113-119	-183.43	104.04	103.61	73.52	73.08	-252.71	-254.43	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
3	20	2-12	46.42	-0.00	26.40	-40.43	23.09	41.81	51.00	55.55	38.10	56.92	60.08	38.10	56.92	60.08	
		13-23	-0.00	47.33	64.59	29.23	32.51	46.42	47.33	13.56	32.51	60.08	51.00	32.51	60.08	51.00	
		24-29	55.55	55.55	-0.00	46.42	60.99	51.00	65.49	56.92	-0.00	60.08	47.79	-0.00	60.08	47.79	
3	20	31-41	56.92	46.42	47.33	46.42	61.44	60.54	65.49	51.00	51.00	46.42	8.75	51.00	46.42	8.75	
		42-52	41.81	56.01	43.19	-5.89	24.04	-0.98	38.10	51.00	51.00	60.08	0.49	51.00	60.08	0.49	
		53-59	9.71	56.92	55.55	56.92	60.54	51.00	47.79	18.82	33.91	-4.41	-211.78	33.91	-4.41	-211.78	
3	20	61-71	60.08	51.45	-41.35	-46.06	33.57	37.17	47.79	-0.00	-161.68	-119.51	-211.78	-161.68	-119.51	-211.78	
		72-82	36.10	32.51	0.00	23.09	33.91	37.64	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		83-89	-228.80	-150.60	-101.17	-219.42	-191.24	-170.36	-177.18	-0.00	-212.54	-191.96	-221.74	-212.54	-191.96	-221.74	
3	20	91-101	-170.36	-163.66	-150.60	-198.39	-119.51	-128.63	-205.04	-0.00	-0.00	27.35	-0.00	-0.00	27.35	-0.00	
		102-112	-229.60	-214.06	-221.74	-0.00	-0.00	27.35	27.35	32.04	-0.00	27.35	-0.00	-0.00	27.35	-0.00	
		113-119	-177.87	104.04	102.76	73.52	73.08	-235.21	-245.92	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 3-SOLAR OFF, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																		
5	40	2-12	38.57	117.61	18.34	-51.87	8.75	28.29	46.42	51.00	27.82	51.00	51.00	27.82	51.00	51.00	27.82	51.00	51.00	
		13-23	-0.00	37.64	50.08	19.30	23.09	38.10	38.57	8.75	27.82	52.37	46.42	27.82	52.37	46.42	27.82	52.37	46.42	
5	40	24-29	47.79	45.96	-0.00	37.17	56.01	43.19	60.08	51.00	-0.00	55.55	60.08	-0.00	55.55	60.08	42.73	55.55	42.73	
		31-41	51.00	41.81	41.81	37.17	10.84	18.34	27.62	42.73	46.42	37.64	46.42	46.42	37.64	46.42	46.42	37.64	46.42	-0.49
		42-52	33.44	51.00	37.17	-10.84	18.34	-10.34	27.62	42.73	46.42	37.64	46.42	46.42	37.64	46.42	46.42	37.64	46.42	-0.49
5	40	53-59	-0.98	51.45	51.00	51.91	55.55	46.42	46.42	8.75	27.82	-10.84	-9.84	27.82	-10.84	-9.84	27.82	-10.84	-9.84	-9.84
		61-71	52.37	46.42	-50.81	-61.51	13.56	37.17	42.27	-0.00	-162.34	-113.52	-197.66	-162.34	-113.52	-197.66	-162.34	-113.52	-197.66	-197.66
		72-82	41.81	27.82	-5.89	8.75	67.28	47.33	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	-228.01	-31.01	-95.96	-205.78	-189.80	-177.18	-184.13	-0.00	-206.53	-191.96	-220.97	-206.53	-191.96	-220.97	-206.53	-191.96	-220.97	-220.97
5	40	91-101	-177.18	-90.24	-155.78	-183.43	-36.16	-0.00	-205.78	18.62	-0.00	13.08	-0.00	-0.00	13.08	-0.00	-0.00	-0.00	-0.00	-0.00
		102-112	-226.43	-213.30	-219.42	-0.00	-0.00	13.08	14.52	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-183.43	104.04	102.76	69.07	68.62	243.29	254.49	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		923-924	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 3, SOLAR OFF, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
5	10	2-12	41.81	121.00	19.77	-51.34	13.56	32.51	46.42	51.00	29.23	51.00	51.45				
		13-23	-0.00	41.81	60.08	23.09	23.09	41.81	42.27	8.75	27.82	52.37	46.42				
5	10	24-29	51.00	47.33	-0.00	38.57	56.92	46.42									
		31-41	52.37	41.81	42.27	38.57	55.55	55.55	60.08	52.37	-0.00	55.55	43.19				
		42-52	37.17	51.00	37.17	-9.84	16.34	-9.35	29.70	42.73	46.42	39.03	0.49				
5	10	53-59	3.90	55.55	51.00	55.55	56.46	46.42									
		61-71	55.55	46.42	-50.28	-57.20	13.56	37.64	46.42	13.56	28.29	-10.84	-5.89				
		72-82	38.57	27.82	-0.98	13.56	64.59	47.79	-0.00	-0.00	-157.08	-113.52	-197.66				
		83-89	-226.43	0.00	-95.38	-205.04	-184.13	-175.81	-177.18	-0.00							
5	10	91-101	-170.36	-89.67	-150.60	-182.73	-25.40	220.20	-203.55	-0.00	-206.53	-190.52	-219.42				
		102-112	-221.74	-211.78	-214.06	-0.00	-0.00	17.87	17.87	22.62	-0.00	17.87	-0.00				
		113-119	-177.87	99.75	99.32	69.07	68.17	238.78	249.65	-0.00	-0.00	-0.00	-0.00				
-0		R01-R11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		R12-R22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		R23-R24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
5	20	2-12	41.81	118.03	19.50	-51.47	9.71	32.51	46.42	51.00	28.76	51.00	51.00				
		13-23	-0.00	38.10	60.08	23.09	21.20	41.81	39.03	8.75	27.82	52.37	46.42				
5	20	24-29	48.25	46.42	-0.00	34.10	56.92	46.42									
		31-41	51.91	41.81	39.49	38.57	55.55	54.19	60.08	51.00	-0.00	55.55	42.73				
		42-52	33.91	51.00	36.71	-10.84	18.34	-9.84	28.76	42.73	46.42	38.57	0.49				
5	20	53-59	0.49	51.91	51.00	52.37	56.01	46.42									
		61-71	55.55	46.42	-50.81	-57.20	13.56	37.17	43.19	9.71	27.82	-10.84	-5.89				
		72-82	41.81	27.82	-4.41	10.20	65.94	51.00	-0.00	-0.00	-161.68	-113.52	-197.66				
		83-89	-226.43	-9.84	-95.96	-205.04	-184.13	-175.81	-177.18	-0.00							
5	20	91-101	-170.36	-89.10	-150.60	-182.73	-25.91	216.75	-203.55	-0.00	-206.53	-191.96	-219.42				
		102-112	-221.74	-212.54	-214.06	-0.00	-0.00	14.52	17.87	22.62	-0.00	17.87	-0.00				
		113-119	-177.87	100.18	99.32	65.94	68.62	243.29	250.76	-0.00	-0.00	-0.00	-0.00				
-0		R01-R11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		R12-R22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		R23-R24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
5	30	2-12	38.57	121.00	18.34	-51.37	8.75	28.76	46.42	51.00	27.82	51.00	51.00				
		13-23	-0.00	38.57	60.08	23.09	24.04	38.57	41.81	8.75	27.82	52.37	46.42				
5	30	24-29	47.79	46.42	-0.00	37.17	56.01	46.42									
		31-41	51.45	38.57	41.81	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	42.27				
		42-52	33.91	51.00	37.17	-10.34	18.34	-10.34	28.29	42.73	46.42	38.10	-0.49				
5	30	53-59	-0.49	51.45	51.00	51.91	55.55	44.12									
		61-71	52.37	46.42	-50.81	-57.20	13.56	37.17	42.73	9.23	27.82	-10.84	-5.89				
		72-82	41.81	27.82	-5.40	9.23	69.07	51.00	-0.00	-0.00	-162.34	-113.52	-197.66				
		83-89	-226.01	-21.55	-95.96	-205.78	-189.80	-177.18	-183.43	-0.00							
5	30	91-101	-177.18	-90.24	-155.13	-184.13	-25.91	197.03	-205.78	-0.00	-206.53	-191.96	-220.97				
		102-112	-221.74	-214.06	-219.42	-0.00	-0.00	14.04	17.87	19.30	-0.00	14.04	-0.00				
		113-119	-184.84	104.04	102.33	69.07	68.62	243.29	250.39	-0.00	-0.00	-0.00	-0.00				
-0		R01-R11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		R12-R22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
		R23-R24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 3, SOLAR OFF, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																
4	57	2-12	41.81	117.61	23.09	-50.81	13.56	32.51	46.42	51.00	32.51	51.91	51.45	32.51	46.42	51.91	51.45	
		13-23	-0.00	41.81	60.08	23.09	23.09	23.09	41.81	41.81	41.81	52.37	52.37	27.82	41.81	52.37	52.37	46.42
		24-29	49.17	47.79	-0.00	38.57	56.92	46.42	46.42	46.42	46.42	55.55	55.55	-0.00	60.08	55.55	55.55	46.42
4	57	31-41	55.55	41.81	41.81	41.81	56.01	55.55	60.08	52.37	52.37	41.81	41.81	46.42	32.51	41.81	41.81	3.90
		42-52	34.84	51.00	37.64	-9.84	18.34	18.34	32.51	43.19	43.19	46.42	46.42	46.42	46.42	46.42	46.42	3.90
		53-59	3.90	55.55	51.45	55.55	56.92	46.42	46.42	13.56	13.56	10.84	10.84	-157.08	-113.52	-113.52	-198.39	-5.89
4	57	61-71	55.55	47.33	-50.28	-57.20	15.00	32.51	43.19	-0.00	-0.00	-10.84	-10.84	-0.00	-0.00	-0.00	-0.00	-198.39
		72-82	37.17	27.82	-0.98	13.56	55.55	42.73	-0.00	42.73	42.73	-10.84	-10.84	-157.08	-113.52	-113.52	-198.39	-5.89
		83-89	-226.43	3.90	-95.96	-205.78	-188.38	-175.81	-183.43	-183.43	-183.43	-191.24	-191.24	-206.53	-191.24	-191.24	-219.42	-219.42
4	57	91-101	-177.18	-94.23	-150.60	-184.13	-25.91	220.96	-203.55	-203.55	-203.55	17.87	17.87	-0.00	17.87	17.87	-0.00	-0.00
		102-112	-221.74	-211.78	-214.06	-0.00	66.38	68.17	254.49	254.49	254.49	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-184.84	-0.00	-0.00	66.38	68.17	246.66	254.49	254.49	254.49	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	59	2-12	41.81	125.19	23.09	-51.34	13.56	32.51	46.42	51.00	30.17	51.91	51.91	30.17	46.42	51.91	51.91	
		13-23	-0.00	41.81	60.08	23.57	24.04	41.81	42.27	8.75	27.82	55.55	55.55	27.82	42.27	55.55	55.55	46.42
		24-29	51.00	47.79	-0.00	38.57	60.08	46.42	46.42	46.42	46.42	55.55	55.55	-0.00	60.08	55.55	55.55	43.65
4	59	31-41	52.82	42.73	42.27	41.81	56.01	56.01	32.51	43.19	46.42	41.81	41.81	46.42	32.51	41.81	41.81	3.90
		42-52	37.17	51.45	38.10	-9.84	18.82	18.82	46.42	43.19	46.42	46.42	46.42	46.42	46.42	46.42	46.42	3.90
		53-59	3.90	55.55	51.45	55.55	56.92	46.88	46.42	13.56	29.23	-10.34	-10.34	-157.08	-113.52	-113.52	-197.66	-5.89
4	59	61-71	55.55	46.88	-50.28	-57.20	15.00	33.44	43.65	-0.00	-0.00	-10.34	-10.34	-0.00	-0.00	-0.00	-0.00	-5.89
		72-82	37.17	27.82	-0.98	13.56	60.08	46.42	-0.00	43.65	43.65	-10.34	-10.34	-157.08	-113.52	-113.52	-197.66	-5.89
		83-89	-226.43	3.90	-95.38	-205.04	-188.38	-175.81	-182.03	-182.03	-182.03	-191.24	-191.24	-206.53	-191.24	-191.24	-219.42	-219.42
4	59	91-101	-175.81	-90.24	-150.60	-182.73	-25.40	220.96	-203.55	-203.55	-203.55	17.87	17.87	-0.00	17.87	17.87	-0.00	-0.00
		102-112	-221.74	-211.78	-214.06	-0.00	69.07	68.17	255.23	255.23	255.23	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-183.43	99.75	98.46	69.07	68.17	246.28	255.23	255.23	255.23	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	1	2-12	41.81	125.19	19.77	-51.34	13.56	32.51	46.88	51.45	32.51	51.45	51.45	32.51	46.88	51.45	51.45	
		13-23	-0.00	42.27	60.08	23.57	23.09	41.81	42.27	8.75	27.82	55.55	55.55	27.82	42.27	55.55	55.55	46.42
		24-29	51.00	47.79	-0.00	38.57	60.08	46.42	46.42	46.42	46.42	55.55	55.55	-0.00	60.08	55.55	55.55	43.65
5	1	31-41	52.37	41.81	41.81	41.81	56.01	55.55	60.08	52.37	52.37	41.81	41.81	46.42	32.51	41.81	41.81	3.90
		42-52	37.17	51.45	38.10	-9.84	18.34	18.34	46.42	43.19	46.42	46.42	46.42	46.42	46.42	46.42	46.42	3.90
		53-59	3.90	55.55	51.45	55.55	56.92	47.33	46.42	13.56	29.23	-10.84	-10.84	-157.08	-113.52	-113.52	-197.66	-5.89
5	1	61-71	55.55	46.88	-50.28	-57.20	14.52	33.44	46.42	-0.00	-0.00	-10.84	-10.84	-0.00	-0.00	-0.00	-0.00	-197.66
		72-82	37.17	27.82	-0.98	13.56	60.08	46.42	-0.00	46.42	46.42	-10.84	-10.84	-157.08	-113.52	-113.52	-197.66	-5.89
		83-89	-226.43	3.90	-95.38	-205.04	-187.67	-175.81	-177.18	-177.18	-177.18	-184.64	-184.64	-205.04	-184.64	-184.64	-219.42	-219.42
5	1	91-101	-170.36	-90.24	-150.60	-182.73	-24.89	223.63	-203.55	-203.55	-203.55	17.87	17.87	-0.00	17.87	17.87	-0.00	-0.00
		102-112	-221.74	-211.78	-214.06	-0.00	65.94	68.17	254.12	254.12	254.12	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-177.87	99.75	98.46	65.94	68.17	243.29	254.12	254.12	254.12	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 3. SOLAR OFF, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS	TEMPERATURES - FAHRENHEIT															
4 52	2-12	41.81	121.00	20.72	-50.28	13.56	32.51	46.42	50.54	32.51	52.37	51.91				
	13-23	-0.00	41.81	60.08	23.09	23.57	41.81	41.81	8.75	27.82	52.62	46.42				
	24-29	51.00	47.79	-0.00	41.81	60.08	46.42	59.63	52.37	-0.00	56.01	46.42				
4 52	31-41	55.55	41.81	41.81	41.81	56.46	55.55	32.51	43.65	46.42	41.81	3.90				
	42-52	37.17	51.45	38.10	-9.84	18.34	-5.89	46.42								
	53-59	3.90	55.55	51.45	55.55	56.92	46.42	46.42								
4 52	61-71	55.55	47.79	-50.28	-57.20	18.34	32.04	46.42	13.56	29.23	-10.34	-5.40				
	72-82	37.17	27.82	-0.98	13.56	51.00	38.57	-0.00	-0.00	-157.08	-113.52	-203.55				
	83-89	-220.97	-3.43	-95.96	-205.78	-188.38	-175.12	-183.43	-0.00	-208.77	-169.80	-219.42				
4 52	91-101	-177.14	-101.17	-150.60	-184.13	-34.61	204.81	-203.55	-0.00	-0.00	17.87	-0.00				
	102-112	-221.74	-211.03	-214.06	-0.00	-0.00	17.87	17.87	22.62	-0.00	17.87	-0.00				
	113-119	-182.73	96.74	98.03	65.94	68.17	239.53	249.65	-0.00	-0.00	-0.00	-0.00				
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
4 54	2-12	41.81	117.61	23.09	-50.81	13.56	32.51	46.42	51.00	32.51	51.91	51.91				
	13-23	-0.00	41.81	60.08	23.09	23.09	39.96	41.81	8.75	27.82	55.55	46.42				
	24-29	51.00	47.79	-0.00	41.81	60.08	46.42	60.08	52.37	-0.00	55.55	46.42				
4 54	31-41	55.55	42.73	41.81	41.81	56.46	55.55	60.08	46.42	46.42	41.81	3.90				
	42-52	37.17	51.45	38.10	-9.35	18.82	-5.89	32.51								
	53-59	3.90	55.55	51.45	55.55	56.92	46.42	46.42	13.56	32.51	-10.64	-5.89				
4 54	61-71	55.55	47.33	-50.28	-57.20	15.00	33.44	43.19	-0.00	-157.08	-113.52	-198.39				
	72-82	37.17	27.82	-0.98	13.56	51.45	41.81	-0.00	-0.00	-206.53	-169.80	-219.42				
	83-89	-226.43	-0.98	-95.96	-205.04	-184.13	-176.49	-182.73	22.62	-0.00	17.87	-0.00				
4 54	91-101	-177.14	-95.96	-150.60	-182.73	-31.01	213.30	-203.55	-0.00	-0.00	250.02	-0.00				
	102-112	-221.74	-211.03	-214.06	-0.00	-0.00	17.87	17.87	-0.00	-0.00	-0.00	-0.00				
	113-119	-184.13	96.74	96.30	69.07	68.17	245.91	250.02	-0.00	-0.00	-0.00	-0.00				
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
4 55	2-12	41.81	121.00	23.09	-50.28	13.56	32.51	47.33	51.00	32.51	51.91	51.91				
	13-23	-0.00	41.81	60.08	23.57	23.09	41.81	42.73	8.75	27.82	52.62	46.42				
	24-29	51.00	47.79	-0.00	38.57	60.08	46.42	60.08	52.37	-0.00	56.01	46.42				
4 55	31-41	55.55	41.81	42.27	41.81	56.01	56.01	60.08	46.42	46.42	41.81	3.90				
	42-52	37.17	51.45	38.10	-9.84	18.34	-5.89	32.51								
	53-59	3.90	55.55	51.45	55.55	56.92	46.42	46.42	13.56	29.23	-10.84	-6.88				
4 55	61-71	55.55	46.88	-50.28	-57.20	15.00	33.44	43.19	-0.00	-157.08	-113.52	-198.39				
	72-82	37.17	27.82	-0.98	13.56	55.55	42.27	-0.00	-0.00	-206.53	-190.52	-219.42				
	83-89	-226.43	0.49	-95.96	-205.04	-188.38	-177.18	-184.13	22.62	-0.00	17.87	-0.00				
4 55	91-101	-177.14	-95.96	-150.60	-183.43	-29.99	217.14	-203.55	-0.00	-0.00	17.87	-0.00				
	102-112	-221.74	-211.03	-214.06	-0.00	-0.00	17.87	17.87	-0.00	-0.00	-0.00	-0.00				
	113-119	-184.13	97.17	98.03	65.94	68.17	247.03	254.49	-0.00	-0.00	-0.00	-0.00				
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 3, SOLAR OFF, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT													
4	46	41.81	121.00	20.72	-46.59	13.56	32.98	46.42	51.91	31.10	52.37	52.37	52.37	52.37	52.37
		-0.00	41.81	60.08	23.57	24.04	40.42	42.27	6.75	27.62	52.82	52.82	46.42		
4	46	50.08	48.25	-0.00	41.81	60.08	46.42		55.55	-0.00	56.01	46.42	46.42	46.42	46.42
		55.55	41.81	41.81	41.81	56.46	55.55	59.63	46.42	46.42	41.81	41.81	41.81	41.81	41.81
4	46	37.17	51.91	38.10	-9.35	18.34	-5.89	32.51	13.56	29.70	-9.64	-9.64	-9.64	-9.64	-9.64
		3.90	55.55	51.45	55.55	57.37	46.88	46.42	13.56	-156.43	-113.52	-113.52	-204.29	-204.29	-204.29
4	46	55.55	47.79	-50.28	-56.67	18.34	32.51	43.19	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		33.44	27.82	-0.98	13.56	39.03	37.17	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	46	-220.97	-10.84	-95.96	-205.04	-184.13	-173.75	-183.43	-0.00	-206.53	-184.84	-184.84	-214.06	-214.06	-214.06
		-177.18	-112.33	-150.60	-184.13	-59.27	176.95	-197.66	23.89	-0.00	17.67	17.67	-0.00	-0.00	-0.00
4	46	-221.74	-206.53	-214.06	-0.00	-0.00	-0.00	16.34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-184.84	96.30	95.01	65.94	68.17	231.61	242.54	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	46	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	46	41.81	118.03	23.09	-50.28	13.56	32.51	46.42	51.00	32.51	52.37	52.37	52.37	52.37	52.37
		-0.00	41.81	60.08	23.09	23.09	41.81	41.81	6.75	27.62	52.62	52.62	46.42	46.42	46.42
4	46	51.00	48.25	-0.00	41.81	57.82	46.42		55.55	-0.00	56.01	44.12	44.12	44.12	44.12
		55.55	41.81	41.81	41.81	56.46	56.46	60.08	43.65	46.42	39.96	39.96	39.96	39.96	39.96
4	46	37.17	51.91	38.10	-9.35	18.34	-5.89	32.51	13.56	29.23	-9.64	-9.64	-9.64	-9.64	-9.64
		3.90	55.55	51.91	55.55	60.08	47.33	46.42	13.56	-157.06	-113.52	-113.52	-204.29	-204.29	-204.29
4	46	55.55	47.33	-50.28	-56.67	18.34	37.17	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		33.91	27.82	-0.98	13.56	42.73	37.17	-182.73	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	46	-220.97	-5.89	-95.96	-205.04	-184.13	-175.12	-182.73	-0.00	-206.53	-184.84	-184.84	-214.06	-214.06	-214.06
		-177.18	-107.60	-150.60	-184.13	-36.16	189.99	-198.39	22.62	-0.00	17.87	17.87	-0.00	-0.00	-0.00
4	46	-221.74	-206.53	-214.06	-0.00	-0.00	-0.00	18.34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-183.43	96.30	95.01	65.94	68.17	230.85	238.78	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	46	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	50	41.81	121.42	23.09	-50.28	13.56	32.51	47.33	51.91	32.51	52.37	52.37	52.37	52.37	52.37
		-0.00	41.81	60.08	23.57	23.57	42.73	41.81	6.75	27.62	55.55	55.55	46.42	46.42	46.42
4	50	51.00	51.00	-0.00	41.81	60.08	46.42		55.55	-0.00	56.01	46.42	46.42	46.42	46.42
		52.82	41.81	41.81	41.81	56.46	55.55	60.08	46.42	46.42	41.81	41.81	41.81	41.81	41.81
4	50	37.17	51.91	38.10	-9.35	18.34	-5.89	32.51	13.56	29.70	-9.64	-9.64	-9.64	-9.64	-9.64
		3.90	55.55	51.45	55.55	57.37	46.88	46.42	13.56	-157.06	-113.52	-113.52	-204.29	-204.29	-204.29
4	50	55.55	47.33	-50.28	-56.67	18.34	32.51	46.42	13.56	32.51	-10.34	-10.34	-10.34	-10.34	-10.34
		34.38	27.82	-0.98	13.56	46.42	38.10	-0.00	-0.00	-157.06	-113.52	-113.52	-204.29	-204.29	-204.29
4	50	-220.97	-5.40	-95.96	-204.29	-187.67	-175.61	-183.43	-0.00	-206.53	-189.09	-189.09	-214.06	-214.06	-214.06
		-177.18	-105.25	-150.60	-182.73	-36.16	197.81	-203.55	22.62	-0.00	17.87	17.87	-0.00	-0.00	-0.00
4	50	-221.74	-211.03	-214.06	-0.00	-0.00	-0.00	242.91	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-183.43	96.74	95.01	68.07	68.17	231.61	242.91	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	50	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 3. SOLAR OFF, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
4 40	2-12	41.81	121.42	23.09	-46.59	13.56	32.98	47.33	51.91	32.51	55.55	52.37
	13-23	-0.00	41.81	60.08	24.04	24.51	41.81	41.81	9.23	27.82	55.55	46.88
4 40	24-29	51.00	51.00	-0.00	41.81	57.82	46.42	60.08	55.55	-0.00	56.01	46.42
	31-41	55.55	41.81	41.81	41.81	56.92	56.46	32.51	46.42	46.42	41.81	3.90
	42-52	37.17	55.55	38.57	-5.89	18.82	-5.89	46.42				
4 40	53-59	3.90	55.55	51.91	55.55	60.08	46.42	43.65	13.56	29.70	-9.35	-5.40
	61-71	55.55	47.79	-46.59	-56.13	18.34	32.51	-0.00	-0.00	-148.68	-117.71	-211.78
	72-82	32.98	27.82	-0.98	13.56	37.17	-0.00	-0.00				
4 40	83-89	-213.30	-93.09	-95.96	-197.66	-177.18	-163.66	-182.73	-0.00	-211.03	-177.87	-206.53
	91-101	-177.18	-144.22	-150.60	-182.73	-90.24	19.77	-196.93	22.62	-0.00	18.34	-0.00
	102-112	-214.06	-199.13	-206.53	-0.00	-0.00	18.34	18.34			18.34	-0.00
	113-119	-184.84	95.87	95.01	65.94	68.17	245.91	253.37	-0.00	-0.00	-0.00	-0.00
0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00									
4 42	2-12	41.81	117.61	23.09	-46.59	13.56	32.51	45.96	51.45	32.51	55.55	52.37
	13-23	-0.00	40.42	60.08	23.57	24.51	41.81	41.81	8.75	27.82	53.28	46.88
4 42	24-29	51.00	48.25	-0.00	41.81	57.82	46.42	60.08	55.55	-0.00	56.01	46.42
	31-41	55.55	41.81	41.81	41.81	56.46	56.01	32.51	46.42	46.42	41.81	3.90
	42-52	37.17	51.91	41.81	-9.35	18.82	-5.89	46.42				
4 42	53-59	3.90	55.55	51.91	55.55	60.08	46.42	46.42	13.56	32.51	-9.84	-5.89
	61-71	55.55	47.79	-46.59	-56.13	18.34	32.51	46.42	-0.00	-150.60	-113.52	-205.78
	72-82	32.51	27.82	-0.98	13.56	37.17	-0.00	-0.00				
4 42	83-89	-214.42	-41.35	-95.96	-204.29	-182.73	-169.01	-182.73	-0.00	-206.53	-183.43	-213.30
	91-101	-177.18	-125.57	-150.60	-182.73	-54.53	108.31	-198.39	22.62	-0.00	18.34	-0.00
	102-112	-219.42	-205.78	-206.53	-0.00	-0.00	18.34	18.34			18.34	-0.00
	113-119	-183.43	95.87	95.01	65.94	68.62	239.16	250.76	-0.00	-0.00	-0.00	-0.00
0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00									
4 44	2-12	41.81	121.00	23.09	-46.59	13.56	32.51	46.42	51.00	32.51	55.55	52.37
	13-23	-0.00	42.27	60.08	24.04	24.04	41.81	42.27	9.23	27.82	55.55	46.42
4 44	24-29	51.00	51.00	-0.00	41.81	57.37	46.42	60.08	55.55	-0.00	56.01	46.42
	31-41	53.28	42.73	41.81	41.81	56.46	56.01	32.51	46.42	46.42	41.81	3.90
	42-52	37.17	51.91	38.57	-9.35	18.82	-5.89	46.42				
4 44	53-59	3.90	55.55	51.91	55.55	60.08	46.42	46.42	13.56	32.51	-9.84	-6.38
	61-71	55.55	47.79	-50.28	-56.13	18.34	33.44	43.65	-0.00	-150.60	-113.52	-205.04
	72-82	32.98	27.82	-0.98	13.56	37.17	-0.00	-0.00				
4 44	83-89	-220.97	-19.34	-95.96	-204.29	-184.13	-169.68	-183.43	-0.00	-206.53	-183.43	-214.06
	91-101	-177.18	-118.31	-150.60	-183.43	-41.35	154.05	-197.66	22.62	-0.00	17.87	-0.00
	102-112	-221.74	-206.53	-214.06	-0.00	-0.00	17.87	18.34			18.34	-0.00
	113-119	-183.43	96.80	95.01	65.94	68.17	235.01	243.29	-0.00	-0.00	-0.00	-0.00
0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00									

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4. SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT												
5	43	2-12	38.57	118.03	18.34	-55.60	8.75	27.82	42.73	51.00	27.82	51.00	51.00	51.00
		13-23	-0.00	38.10	60.08	19.30	19.77	38.10	38.57	8.75	27.82	52.37	46.42	46.42
		24-29	47.79	46.42	-0.00	37.17	55.55	42.73						
5	43	31-41	51.45	38.57	38.57	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	41.81	41.81
		42-52	33.44	51.00	37.17	-10.84	18.34	-10.84	27.82	42.73	43.65	38.10	-0.98	-0.98
		53-59	-0.98	51.45	51.00	51.45	55.55	43.65	46.42					
5	43	61-71	51.91	46.42	-51.34	-61.51	13.56	37.17	42.27	8.75	27.82	-10.84	-9.84	-9.84
		72-82	41.81	24.51	-5.89	8.75	65.94	47.33	-0.00	-0.00	-163.00	-107.60	-175.81	-175.81
		83-89	-134.19	-118.31	-100.00	-163.66	-198.39	-184.84	-177.18					
5	43	91-101	-177.18	-129.86	-175.81	-169.01	-125.57	-100.58	-213.30	-0.00	-219.42	-197.66	-120.12	-120.12
		102-112	-112.33	-108.19	-108.19	-0.00	-0.00	13.08	14.04	19.30	-0.00	13.08	-0.00	-0.00
		113-119	-182.73	104.04	103.19	69.07	68.62	242.54	250.76					
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	45	2-12	38.57	118.03	18.34	-55.60	8.75	27.82	43.65	51.00	27.82	51.00	51.00	51.00
		13-23	-0.00	37.17	60.08	19.30	19.77	38.10	38.10	8.75	27.82	52.37	46.42	46.42
		24-29	47.79	46.42	-0.00	37.17	55.55	42.73						
5	45	31-41	51.91	38.57	38.57	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	41.81	41.81
		42-52	33.44	51.00	37.17	-10.84	15.48	-10.34	27.82	43.19	46.42	37.64	-0.49	-0.49
		53-59	-0.98	51.45	51.00	51.91	55.55	43.65	46.42					
5	45	61-71	52.37	46.42	-50.81	-60.97	13.56	35.31	42.27	8.75	27.82	-10.84	-9.35	-9.35
		72-82	39.03	27.82	-5.40	8.75	64.59	46.42	-0.00	-0.00	-163.00	-101.75	-162.34	-162.34
		83-89	-106.43	-101.75	-95.96	-149.96	-203.55	-183.43	-177.18					
5	45	91-101	-176.49	-125.57	-176.49	-157.08	-107.60	-90.24	-220.97	-0.00	-214.06	-199.86	-85.14	-85.14
		102-112	-78.99	-74.03	-78.44	-0.00	-0.00	13.08	14.04	18.82	-0.00	13.08	-0.00	-0.00
		113-119	-177.87	104.04	103.19	66.93	68.62	235.39	245.91					
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	47	2-12	38.10	121.00	18.34	-55.60	8.75	27.82	43.65	51.00	27.82	51.00	51.00	51.00
		13-23	-0.00	37.17	60.08	19.30	19.77	38.10	38.10	8.75	27.82	52.37	46.42	46.42
		24-29	47.79	46.42	-0.00	37.17	55.55	42.73						
5	47	31-41	51.91	38.57	38.57	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	41.81	41.81
		42-52	33.44	51.00	37.17	-10.84	15.00	-10.84	27.82	42.73	43.65	37.64	-0.98	-0.98
		53-59	-0.98	51.45	51.00	51.91	55.55	43.65	46.42					
5	47	61-71	51.91	46.42	-50.81	-60.97	13.56	37.17	41.81	8.75	27.82	-10.84	-9.84	-9.84
		72-82	41.81	24.51	-5.89	8.75	64.59	46.42	-0.00	-0.00	-163.00	-100.58	-175.81	-175.81
		83-89	-95.96	-57.20	-90.24	-137.92	-205.04	-184.13	-170.36					
5	47	91-101	-175.12	-101.75	-175.12	-149.32	-72.38	-41.35	-220.97	-0.00	-199.13	-199.13	-74.57	-74.57
		102-112	-63.13	-61.51	-74.03	-0.00	-0.00	13.08	14.04	18.34	-0.00	13.08	-0.00	-0.00
		113-119	-170.36	104.04	103.19	69.07	68.62	227.44	235.39					
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4, SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
5	49	2-12	37.64	117.61	18.34	-55.60	8.75	27.82	43.19	51.00	27.82	51.00	51.00	27.82	51.00	51.00	51.00
		13-23	-0.00	37.17	50.08	18.82	19.77	37.64	38.10	8.75	27.82	51.00	51.00	27.82	51.00	51.00	46.42
		24-29	47.79	46.42	-0.00	37.17	55.55	42.73	60.08	51.00	-0.00	55.55	55.55	-0.00	55.55	55.55	41.81
		31-41	51.91	38.10	36.10	37.17	55.55	53.28	27.82	42.73	46.42	42.73	37.64	46.42	42.73	37.64	-0.98
		42-52	33.91	51.00	37.17	-10.84	15.00	-10.84	46.42	8.75	27.82	-14.32	-10.34	46.42	-0.00	-95.38	-14.82
		53-59	-0.58	51.45	51.00	51.91	55.55	46.42	42.27	6.75	27.82	-14.32	-10.34	46.42	-0.00	-95.38	-14.82
		61-71	51.91	46.42	-50.81	-59.89	13.56	37.17	42.27	6.75	27.82	-14.32	-10.34	46.42	-0.00	-95.38	-14.82
		72-82	41.81	24.51	-5.40	8.75	60.08	46.42	-0.00	-0.00	-163.66	-14.32	-10.34	46.42	-0.00	-95.38	-14.82
		83-89	-95.38	52.82	-78.44	-131.71	-205.78	-184.13	-163.66	-0.00	-144.65	-199.13	-68.58	-0.00	-0.00	-0.00	-0.00
		91-101	-170.36	-36.16	-163.66	-139.80	-15.82	51.45	-220.97	-0.00	-144.65	-199.13	-68.58	-0.00	-0.00	-0.00	-0.00
		102-112	-57.74	-55.60	-62.05	-0.00	-0.00	13.08	14.04	16.34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-157.73	104.04	103.19	69.07	68.62	219.43	227.82	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B01-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B12-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B23-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	51	2-12	38.10	117.61	18.34	-55.60	8.75	27.82	43.19	51.00	27.82	51.00	51.00	27.82	51.00	51.00	51.00
		13-23	-0.00	37.17	60.08	18.82	19.30	37.64	38.10	8.75	27.82	51.00	51.00	27.82	51.00	51.00	46.42
		24-29	47.79	46.42	-0.00	37.17	55.55	42.73	60.08	51.00	-0.00	55.55	55.55	-0.00	55.55	55.55	42.73
		31-41	51.91	38.10	36.10	37.17	55.55	53.28	27.82	42.73	46.42	42.73	37.64	46.42	42.73	37.64	-0.98
		42-52	37.17	51.00	37.17	-10.84	15.00	-10.84	46.42	6.75	27.82	-15.32	-9.84	46.42	-0.00	-90.24	24.99
		53-59	-0.98	51.00	51.00	51.91	55.55	43.19	43.19	6.75	27.82	-15.32	-9.84	46.42	-0.00	-90.24	24.99
		61-71	51.91	46.42	-50.81	-57.20	13.56	37.17	43.19	6.75	27.82	-15.32	-9.84	46.42	-0.00	-90.24	24.99
		72-82	41.81	24.51	-5.89	8.75	60.08	46.42	-0.00	-0.00	-163.66	-15.32	-9.84	46.42	-0.00	-90.24	24.99
		83-89	-94.81	96.30	-56.96	-124.97	-205.78	-186.96	-157.08	-0.00	-112.93	-196.93	-68.58	-0.00	-0.00	-0.00	-0.00
		91-101	-163.66	-0.49	-136.43	-129.46	8.75	80.16	-220.97	-0.00	-112.93	-196.93	-68.58	-0.00	-0.00	-0.00	-0.00
		102-112	-57.74	-52.40	-52.57	-0.00	-0.00	13.08	14.04	18.34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-149.96	104.04	102.76	69.07	68.62	209.06	216.75	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B01-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B12-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B23-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	53	2-12	37.64	118.03	18.34	-55.60	8.75	27.82	43.19	51.00	27.82	51.00	51.00	27.82	51.00	51.00	51.00
		13-23	-0.00	37.64	50.08	18.82	19.30	37.64	37.64	8.75	27.82	51.00	51.00	27.82	51.00	51.00	46.42
		24-29	47.79	45.50	-0.00	37.17	55.55	42.73	58.28	50.08	-0.00	55.55	55.55	-0.00	55.55	55.55	41.81
		31-41	51.00	38.10	38.10	37.17	55.55	53.28	27.82	42.73	46.42	42.73	37.17	46.42	42.73	37.17	-0.98
		42-52	37.17	51.00	37.17	-10.84	15.00	-10.84	46.42	6.75	27.82	-15.82	-10.34	46.42	-0.00	-84.58	32.51
		53-59	-0.98	51.00	51.00	51.91	55.55	43.19	43.19	6.75	27.82	-15.82	-10.34	46.42	-0.00	-84.58	32.51
		61-71	51.45	46.42	-50.81	-51.87	13.56	38.57	46.42	6.75	27.82	-15.82	-10.34	46.42	-0.00	-84.58	32.51
		72-82	46.42	24.04	-5.89	8.75	60.08	46.42	-0.00	-0.00	-163.66	-15.82	-10.34	46.42	-0.00	-84.58	32.51
		83-89	-95.96	100.61	-60.97	-119.51	-205.78	-186.96	-150.60	-0.00	-102.33	-191.96	-68.58	-0.00	-0.00	-0.00	-0.00
		91-101	-163.00	13.56	-150.60	-123.75	13.56	83.68	-218.65	-0.00	-102.33	-191.96	-68.58	-0.00	-0.00	-0.00	-0.00
		102-112	-50.24	-52.40	-53.13	-0.00	-0.00	13.08	13.56	17.87	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		113-119	-144.22	104.04	103.19	69.07	68.62	200.15	205.19	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B01-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B12-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		B23-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4. SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS†		TEMPERATURES - FAHRENHEIT												
5	55	37.64	117.61	18.34	-55.60	8.75	27.82	46.42	51.00	27.82	51.00	27.82	51.00	51.00
		-0.00	37.17	60.08	18.82	19.30	37.64	37.64	6.75	28.29	52.37	28.29	52.37	46.42
5	55	47.79	46.42	0.00	37.17	56.01	42.73							
		51.91	41.81	38.10	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	-0.00	55.55	41.81
		37.17	51.00	37.17	-10.84	15.00	-10.34	27.82	42.73	43.19	37.64	43.19	37.64	-0.98
5	55	-0.98	51.00	51.00	52.37	55.55	43.19	46.42	8.75	27.82	-15.32	-163.66	-84.58	34.38
		51.91	46.42	-50.28	-50.28	13.56	41.35	46.42	-0.00	-163.66				
		51.00	24.51	-5.40	8.75	64.59	47.33	-0.00						
5	55	-100.58	100.61	-51.34	-119.51	-204.29	-184.13	-149.32	-0.00	-149.32	-84.58	-163.66	-84.58	34.38
		-157.08	18.34	-143.58	-119.51	11.64	86.74	-212.54	-0.00	-96.53	-194.74	-96.53	-194.74	-73.48
		-63.13	-57.74	-87.49	-0.00	-0.00	13.08	13.56	18.34	-0.00	13.08	-0.00	13.08	-0.00
		-138.55	104.04	102.76	69.07	68.62	188.81	197.03	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	57	38.10	118.03	18.34	-55.60	8.75	27.82	43.19	51.00	27.82	51.00	27.82	51.00	51.00
		-0.00	37.17	60.08	18.82	19.30	37.64	37.64	9.23	28.29	52.37	28.29	52.37	46.42
		47.79	46.42	0.00	37.17	55.55	42.73							
5	57	51.91	38.10	38.10	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	-0.00	55.55	41.81
		37.17	51.00	37.17	-10.84	15.00	-10.84	27.82	42.27	42.73	37.17	42.73	37.17	-0.98
		-0.98	51.00	51.00	55.55	55.55	43.19	46.42	8.75	27.82	-15.82	-163.66	-84.58	37.17
5	57	51.45	46.42	-46.59	-47.11	13.56	46.42	51.00	-0.00	-163.66				
		55.55	24.04	-5.89	8.75	64.59	51.00	-0.00						
		-101.75	101.47	-46.06	-119.51	-205.04	-186.25	-144.22	-0.00	-95.96	-191.96	-95.96	-191.96	-74.03
5	57	-157.08	19.77	-137.92	-119.51	13.56	86.74	-213.30	17.87	-0.00	13.08	-0.00	13.08	-0.00
		-67.49	-61.51	-88.58	-0.00	-0.00	13.08	13.08	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-138.55	104.04	102.76	66.83	68.62	177.75	185.66	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	59	38.10	118.03	18.34	-51.87	8.75	27.82	43.19	51.00	27.82	51.00	27.82	51.00	51.00
		-0.00	37.17	60.08	18.34	18.82	37.64	37.64	9.23	28.29	52.37	28.29	52.37	46.42
		47.33	46.42	0.00	37.17	55.55	42.27							
5	59	51.00	38.57	38.10	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	-0.00	55.55	41.81
		37.17	51.00	37.17	-10.84	15.00	-9.84	27.82	42.27	43.19	37.17	43.19	37.17	-0.98
		-0.98	51.00	51.00	55.55	55.55	42.73	43.19	8.75	24.99	-15.32	-163.66	-84.58	37.17
5	59	-0.98	51.00	51.00	55.55	55.55	42.73	43.19	-0.00	-163.66				
		51.45	46.42	-46.59	-43.96	13.56	47.33	51.00	8.75	24.99	-15.32	-163.66	-84.58	37.17
		56.01	24.04	-5.89	9.23	65.04	51.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
5	59	-107.60	101.47	-41.35	-119.51	-205.04	-186.25	-143.58	-0.00	-94.81	-0.00	-0.00	-0.00	-0.00
		-157.08	23.09	-136.05	-118.31	13.56	86.74	-213.30	-0.00	-94.81	-0.00	-0.00	-0.00	-0.00
		-68.58	-63.13	-74.03	-0.00	-0.00	13.08	13.56	18.82	-0.00	13.08	-0.00	13.08	-0.00
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4, SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
6	0	38.10	118.03	18.34	-51.87	8.75	27.82	43.19	51.00	27.82	51.00	51.00	51.00
	13-23	-0.00	37.64	60.08	18.34	18.34	38.10	37.64	9.23	26.29	52.37	46.42	46.42
6	0	47.33	45.50	0.00	37.17	55.55	42.27	60.08	51.00	-0.00	55.55	42.73	42.73
	31-41	51.45	38.10	37.64	37.17	55.55	53.28	27.82	42.27	43.19	37.17	-0.98	-0.98
6	0	37.17	51.00	34.84	-9.84	14.52	-10.84	43.19	8.75	24.99	-14.82	-10.64	-10.64
	53-59	-0.98	51.00	51.00	55.55	55.55	43.19	48.19	-0.00	-163.00	-84.02	37.17	37.17
	61-71	51.45	46.42	-46.59	-41.35	13.56	51.00	52.82	-0.00	-0.00	-0.00	-0.00	-0.00
	72-82	60.08	24.04	-5.89	9.23	66.38	52.37	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	93-99	-111.74	101.90	-39.79	-118.91	-205.04	-184.13	-144.22	-0.00	-94.81	-191.24	-84.02	-84.02
6	0	-157.08	23.09	-131.71	-117.71	13.08	86.74	-213.30	-0.00	-0.00	13.08	-0.00	-0.00
	102-112	-74.03	-68.58	-77.68	-0.00	-0.00	13.08	13.56	18.34	-0.00	13.08	-0.00	-0.00
	113-119	-136.05	104.04	102.76	69.07	68.62	157.70	165.77	-0.00	-0.00	-0.00	-0.00	-0.00
	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
6	2	38.10	121.00	18.34	-51.87	8.75	27.82	43.19	51.45	27.82	51.00	51.00	51.00
	13-23	-0.00	36.71	50.08	18.34	18.82	38.10	37.64	9.23	26.29	52.37	46.42	46.42
6	2	47.33	45.04	0.00	37.17	55.55	42.27	60.08	51.00	-0.00	55.55	42.73	42.73
	31-41	51.45	37.64	37.64	37.17	55.55	55.55	27.82	42.27	42.73	37.64	-0.98	-0.98
	42-52	37.17	51.00	37.17	-10.34	14.52	-10.84	43.19	8.75	24.51	-10.84	-10.64	-10.64
6	2	51.45	51.00	51.00	55.55	55.55	43.19	43.19	-0.00	-163.66	-83.46	37.17	37.17
	53-59	-0.98	46.42	-46.59	-38.75	13.56	51.45	55.55	-0.00	-0.00	-0.00	-0.00	-0.00
	61-71	51.00	60.99	24.51	4.90	69.07	55.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	72-82	60.99	24.51	-4.90	9.71	-204.29	-183.43	-144.22	-0.00	-94.23	-191.24	-85.14	-85.14
	83-89	-113.52	104.04	36.16	-119.51	-204.29	-183.43	-144.22	-0.00	-0.00	-0.00	-0.00	-0.00
6	2	-155.78	24.51	-131.09	-117.11	13.56	86.74	-213.30	-0.00	-0.00	13.08	-0.00	-0.00
	102-112	-78.99	-72.38	-79.55	-0.00	-0.00	13.08	13.56	18.82	-0.00	13.08	-0.00	-0.00
	113-119	-136.67	104.04	102.76	66.93	68.62	149.16	153.65	-0.00	-0.00	-0.00	-0.00	-0.00
	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
6	4	37.64	118.03	17.67	-51.34	8.75	27.82	43.19	51.00	27.82	51.00	51.00	51.00
	13-23	-0.00	37.17	60.08	18.34	18.34	38.10	38.10	9.23	26.76	52.37	46.42	46.42
6	4	47.33	46.42	0.00	37.17	55.55	42.27	60.08	51.00	-0.00	55.55	41.81	41.81
	31-41	51.00	38.57	37.64	37.17	55.55	55.55	27.82	41.81	42.73	37.64	-0.98	-0.98
	42-52	37.17	51.00	37.17	-9.84	14.52	-10.84	43.19	-0.00	-0.00	-0.00	-0.00	-0.00
	53-59	-0.98	51.00	51.00	55.55	55.55	43.19	43.19	-119.51	-204.29	-184.13	-144.22	-144.22
6	4	-0.00	-163.00	-92.90	38.10	-118.31	104.04	-35.13	-153.13	24.99	-131.09	-117.11	-117.11
	72-82	149.98	149.98	149.98	149.98	149.98	149.98	149.98	69.07	68.62	137.25	145.07	145.07
	83-89	13.56	86.74	-213.30	-0.00	-90.81	-191.24	-90.81	149.98	149.98	149.98	149.98	149.98
6	4	18.82	-0.00	13.08	-0.00	-132.33	104.04	102.76	149.98	149.98	149.98	149.98	149.98
	102-112	-0.00	149.98	149.98	149.98	149.98	149.98	149.98	-0.00	-0.00	-0.00	-0.00	-0.00
	113-119	149.98	149.98	149.98	149.98	149.98	149.98	149.98	-0.00	-0.00	-0.00	-0.00	-0.00
	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4, SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
6	20	38.10	121.42	18.34	-41.35	8.75	27.82	42.73	52.37	27.82	51.00	51.00	51.00
		-0.00	35.78	60.06	18.34	18.34	39.49	37.17	9.71	26.76	52.82	52.82	46.88
6	20	47.33	46.42	-0.00	37.17	55.55	42.73	57.82	49.17	-0.00	55.55	55.55	41.61
		51.45	37.64	36.71	37.17	55.55	52.37	27.82	41.61	41.61	37.64	37.64	0.00
6	20	-0.98	51.91	51.00	60.08	55.55	42.73	42.73	8.75	24.04	-5.89	-10.84	39.03
		51.45	46.42	-40.83	-25.40	13.56	61.44	60.54	-0.00	-157.08	-78.99	-78.99	39.03
6	20	70.41	24.04	-0.98	13.56	70.41	60.54	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-125.57	104.04	-24.89	-119.51	-203.55	-186.25	-137.92	-0.00	-90.61	-191.96	-191.96	-104.06
6	20	-150.60	27.82	-130.48	-112.93	11.16	86.31	-211.78	-0.00	-0.00	14.04	14.04	-0.00
		-95.96	-89.67	-96.53	-0.00	-0.00	13.08	15.96	22.62	-0.00	-0.00	-0.00	-0.00
6	20	-132.33	104.04	102.76	69.07	68.62	112.13	116.35	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
6	30	38.57	125.19	19.77	-36.16	8.75	27.82	43.19	55.55	27.82	51.00	51.00	51.00
		-0.00	37.17	60.06	18.82	18.82	41.61	38.10	13.56	29.23	55.55	55.55	47.33
6	30	49.17	38.10	37.17	37.17	55.55	55.55	60.08	51.00	-0.00	55.55	55.55	42.27
		37.17	52.37	37.17	-5.89	15.00	-5.89	27.82	41.61	41.61	37.64	37.64	3.90
6	30	-4.41	52.37	51.45	60.08	55.55	42.73	42.27	8.75	23.57	-5.40	-10.34	41.61
		52.37	46.42	-36.16	-19.84	13.56	64.59	60.99	-0.00	-157.08	-78.99	-78.99	41.61
6	30	73.52	23.57	-0.49	13.56	69.07	64.59	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-131.09	105.75	-20.85	-119.51	-203.55	-186.25	-137.92	-0.00	-89.10	-191.24	-191.24	-108.19
6	30	-150.60	26.40	-125.57	-111.74	-24.39	51.45	-211.03	21.20	-0.00	14.52	14.52	-0.00
		-101.17	-95.38	-102.33	-0.00	-0.00	13.08	15.96	-0.00	-0.00	-0.00	-0.00	-0.00
6	40	-132.33	100.18	99.32	69.07	68.62	103.61	107.88	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
6	40	41.61	125.19	23.09	-35.13	9.23	27.82	43.19	55.55	25.46	48.25	48.25	51.00
		-0.00	37.17	60.06	19.30	18.82	42.27	37.17	13.56	32.51	55.55	55.55	51.00
6	40	47.79	46.42	-0.00	33.91	56.01	46.42	60.08	51.00	-0.00	55.55	55.55	43.19
		49.17	37.17	37.17	33.91	55.55	52.37	27.82	41.61	41.61	37.64	37.64	3.90
6	40	-4.90	55.55	51.45	60.08	55.55	41.61	41.61	8.75	24.99	-10.84	-10.84	39.03
		51.00	46.42	-46.59	-36.58	13.56	55.55	55.55	52.37	43.19	-31.01	-31.01	-15.82
6	40	64.59	23.57	4.90	9.71	69.07	55.55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		13.56	65.94	64.59	23.09	-4.90	-4.90	-10.84	-119.51	-198.39	-186.25	-186.25	-137.92
6	40	-0.00	-156.43	-77.88	39.03	-131.09	105.75	-19.84	-119.51	-198.39	-186.25	-186.25	-137.92
		149.98	149.98	149.98	149.98	149.98	149.98	149.98	-150.60	26.40	-125.57	-125.57	-119.55
6	40	-15.82	56.92	-205.76	-0.00	-90.24	-191.24	-111.15	-190.00	-191.00	-125.00	-125.00	-121.00
		-291.00	-0.00	-307.00	-0.00	-581.00	-120.00	-121.00	-0.00	-0.00	-0.00	-0.00	-0.00
6	40	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4, SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																
6	50	41.61	121.42	23.09	-31.01	9.71	28.29	42.73	54.64	27.82	47.79	51.00	51.00	51.00	51.00	51.00	51.00	51.00
		-0.00	37.17	60.08	18.34	15.48	42.73	35.78	13.56	32.51	55.55	51.00	51.00	51.00	51.00	51.00	51.00	51.00
6	50	47.79	46.42	-0.00	33.44	55.55	46.42	60.08	51.00	-0.00	55.55	46.42	46.42	46.42	46.42	46.42	46.42	46.42
		51.00	37.17	37.17	33.44	55.55	51.91	28.29	41.61	41.61	38.10	3.98	3.98	3.98	3.98	3.98	3.98	3.98
6	50	37.17	55.55	37.17	-5.89	15.00	-4.90	60.08	41.61	41.61	38.10	3.98	3.98	3.98	3.98	3.98	3.98	3.98
		52.82	51.91	51.91	60.08	55.55	41.61	41.61	6.75	23.09	-0.98	-10.64	-10.64	-10.64	-10.64	-10.64	-10.64	-10.64
		52.37	43.19	-25.91	-14.32	13.56	69.07	64.59	-0.00	-150.60	-76.78	41.61	41.61	41.61	41.61	41.61	41.61	41.61
		77.95	23.09	0.49	13.56	69.07	64.59	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-131.71	108.31	-19.34	-119.51	-198.39	-184.13	-141.06	-0.00	-89.67	-190.52	-108.19	-108.19	-108.19	-108.19	-108.19	-108.19	-108.19
6	50	-150.60	30.17	-125.57	-107.60	23.09	96.30	-205.04	-0.00	-0.00	15.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-102.33	-96.53	-107.60	-0.00	-0.00	13.56	17.87	22.62	-0.00	15.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-132.53	99.75	99.32	69.07	68.62	90.67	95.01	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7	0	-0.00	121.84	23.09	-25.91	10.20	28.29	42.73	55.55	27.82	47.79	51.00	51.00	51.00	51.00	51.00	51.00	51.00
		-0.00	34.38	50.08	18.34	15.00	46.42	35.78	13.56	32.51	55.55	51.00	51.00	51.00	51.00	51.00	51.00	51.00
		47.79	46.42	-0.00	33.44	55.55	46.42	60.08	51.00	-0.00	55.55	46.42	46.42	46.42	46.42	46.42	46.42	46.42
		51.00	37.17	34.84	33.44	55.55	51.91	27.82	41.61	41.61	38.10	4.39	4.39	4.39	4.39	4.39	4.39	4.39
		37.17	55.55	37.64	-5.89	18.34	-0.98	41.61	6.75	23.09	-0.98	-10.64	-10.64	-10.64	-10.64	-10.64	-10.64	-10.64
		53-59	55.55	51.91	60.54	55.55	41.61	64.59	8.75	23.09	-0.98	-10.64	-10.64	-10.64	-10.64	-10.64	-10.64	-10.64
		61-71	42.73	-20.85	-10.84	13.56	69.07	64.59	-0.00	-150.60	-73.48	41.61	41.61	41.61	41.61	41.61	41.61	41.61
		72-82	23.09	3.90	13.56	73.52	65.04	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	108.31	-15.82	-118.91	-198.39	-186.25	-137.92	-0.00	-89.67	-191.96	-111.74	-111.74	-111.74	-111.74	-111.74	-111.74	-111.74
		91-101	30.17	-124.97	-107.60	23.09	96.30	-205.78	22.62	-0.00	15.48	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-150.60	-100.00	-107.60	-0.00	-0.00	13.56	16.91	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-105.84	99.75	99.32	66.83	68.62	86.31	90.67	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-132.33	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
7	20	-0.00	125.19	27.82	-20.85	13.56	28.76	43.19	56.46	27.82	47.33	51.00	51.00	51.00	51.00	51.00	51.00	51.00
		-0.00	33.44	50.08	18.82	13.56	45.04	37.17	13.56	32.51	55.55	51.00	51.00	51.00	51.00	51.00	51.00	51.00
		51.00	46.42	-0.00	32.51	55.55	46.88	60.08	47.79	-0.00	55.55	46.42	46.42	46.42	46.42	46.42	46.42	46.42
		47.79	37.17	34.38	32.51	55.55	51.45	28.76	41.61	41.61	38.57	8.75	8.75	8.75	8.75	8.75	8.75	8.75
		38.10	55.55	38.57	-4.90	18.34	0.98	41.61	8.75	23.09	-0.98	-10.84	-10.84	-10.84	-10.84	-10.84	-10.84	-10.84
		-5.89	55.55	52.37	61.44	56.01	41.61	41.61	-0.00	-150.60	-71.84	41.61	41.61	41.61	41.61	41.61	41.61	41.61
		78.84	23.57	3.90	13.56	75.74	69.07	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-136.67	109.58	-15.82	-119.51	-198.39	-183.43	-141.69	-0.00	-89.10	-169.80	-114.12	-114.12	-114.12	-114.12	-114.12	-114.12	-114.12
		-150.60	30.63	-125.57	-107.60	21.67	96.30	-204.29	22.62	-0.00	17.87	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-108.19	-101.75	-108.19	-0.00	15.00	18.34	18.34	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-132.33	100.61	99.32	69.07	68.62	77.51	81.92	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4, SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
7 40	2-12	41.81	126.45	27.82	-19.84	13.56	32.51	46.42	60.08	28.29	46.88	51.00					
	13-23	-0.00	33.44	60.08	19.77	13.56	46.42	37.17	13.56	32.51	56.92	55.55					
7 40	24-29	51.00	46.42	-0.00	32.98	57.37	51.00										
	31-41	51.00	37.17	33.91	32.51	55.55	51.45	60.08	47.33	-0.00	55.55	47.33					
	42-52	41.81	56.01	41.81	-4.90	18.82	4.88	32.51	41.81	41.81	41.81	41.81					
7 40	53-59	-5.89	55.55	55.55	64.59	56.46	41.81	41.81	5.36	23.09	0.49	-10.84					
	61-71	55.55	41.81	-9.35	-4.90	18.34	73.52	64.59	-0.00	-150.60	-68.03	43.19					
	72-82	80.16	23.09	3.90	13.56	77.95	69.52	-0.00	-0.00								
	83-89	-150.60	113.40	-15.82	-124.97	-197.66	-184.13	-137.92	-0.00								
7 40	91-101	-150.60	32.51	-124.36	-111.74	23.09	99.75	-205.78	-0.00	-85.14	-184.84	-125.57					
	102-112	-119.51	-114.12	-124.36	-0.00	-0.00	17.87	19.77	24.04	-0.00	17.87	-0.00					
	113-119	-132.33	99.75	99.32	69.07	68.62	17.87	17.87	-0.00	-0.00	-0.00	-0.00					
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
6 0	2-12	42.27	121.84	28.76	-15.32	13.56	32.51	46.42	60.08	29.23	46.88	51.00					
	13-23	-0.00	32.51	60.08	32.09	13.56	47.33	37.17	13.56	32.51	60.08	55.55					
6 0	24-29	51.00	46.42	-0.00	32.51	56.46	51.00										
	31-41	46.88	37.17	33.91	32.51	55.55	51.91	60.08	47.33	-0.00	55.55	51.00					
	42-52	41.81	60.08	41.81	-0.98	19.77	8.75	32.51	41.81	41.81	41.81	41.81					
6 0	53-59	-5.89	55.55	55.55	64.59	56.92	41.81	41.81	4.88	23.09	3.90	-10.84					
	61-71	55.55	41.81	-4.41	-0.98	18.34	73.52	64.59	-0.00	-149.32	-68.03	46.42					
	72-82	82.36	23.57	3.90	14.04	79.28	73.52	-0.00	-0.00								
	83-89	-162.34	116.77	-15.82	-130.48	-184.13	-137.92	-205.78	-0.00	-84.02	-184.84	-141.06					
6 0	91-101	-150.60	37.17	-124.36	-112.93	27.82	104.04	20.25	27.35	-0.00	18.34	-0.00					
	102-112	-131.71	-129.86	-138.55	-0.00	-0.00	17.87	20.25	-0.00	-0.00	-0.00	-0.00					
	113-119	-132.33	99.75	99.32	69.07	68.62	-57.74	-57.74	-0.00	-0.00	-0.00	-0.00					
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
6 20	2-12	42.73	121.84	32.51	-10.84	14.04	32.51	46.42	60.08	32.51	46.42	51.00					
	13-23	-0.00	32.51	60.08	23.09	13.56	51.00	37.17	13.56	32.51	60.08	55.55					
6 20	24-29	51.00	46.42	-0.00	32.51	56.92	51.00										
	31-41	46.42	33.91	33.44	32.51	55.55	51.91	60.08	46.88	-0.00	55.55	49.63					
	42-52	41.81	60.08	41.81	-0.98	23.09	13.56	32.51	41.81	41.81	41.81	41.81					
6 20	53-59	-5.89	55.55	55.55	64.59	56.92	41.81	41.81	4.88	23.09	3.90	-10.84					
	61-71	55.55	41.81	0.49	0.49	18.34	73.97	64.59	-0.00	-144.22	-68.03	46.42					
	72-82	82.36	23.09	3.90	14.04	82.36	73.52	-0.00	-0.00								
	83-89	-169.01	117.61	-15.32	-136.05	-196.93	-184.13	-142.32	-0.00	-84.58	-184.84	-149.32					
6 20	91-101	-150.60	37.17	-124.97	-113.52	27.82	104.04	205.78	-0.00	-0.00	18.82	-0.00					
	102-112	-142.95	-138.55	-144.85	-0.00	-0.00	17.87	22.62	27.35	-0.00	18.82	-0.00					
	113-119	-132.33	99.75	99.32	69.07	68.62	-125.57	-126.18	-0.00	-0.00	-0.00	-0.00					
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00					

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 4, SOLAR ON, SPACECRAFT HEATERS OFF,
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT													
8	40	2-12	43.19	121.84	32.51	-10.84	18.34	32.51	46.42	60.08	32.51	46.42	51.00	51.00	
		13-23	-0.00	32.51	60.08	23.57	9.71	51.00	33.91	14.04	32.98	60.08	55.55	55.55	
8	40	24-29	51.00	46.42	-0.00	29.23	56.92	51.91	60.08	46.42	-0.00	55.55	51.00	51.00	
		31-41	46.42	33.91	33.44	32.51	56.01	51.91	32.51	41.81	41.81	41.81	10.20	10.20	
		42-52	41.81	60.08	41.81	-0.98	23.09	13.56	38.57	41.81	41.81	41.81	10.20	10.20	
		53-59	-9.84	55.55	55.55	64.59	57.37	41.81	38.57	41.81	41.81	41.81	10.20	10.20	
8	40	61-71	55.55	41.81	3.90	3.90	18.34	74.86	65.04	4.39	19.30	3.90	-15.32	-15.32	
		72-82	83.24	23.09	0.49	14.52	82.36	73.52	-0.00	-0.00	-143.58	-66.42	46.42	46.42	
		83-89	-170.36	119.29	-14.82	-136.67	-198.39	-184.84	-142.95	-0.00	-0.00	-66.42	46.42	46.42	
8	40	91-101	-150.60	37.17	-124.36	-113.52	26.87	104.90	-205.78	-0.00	-85.14	-189.80	-151.24	-151.24	
		102-112	-148.04	-144.85	-151.24	-0.00	-0.00	17.87	21.20	27.35	-0.00	19.30	-0.00	-0.00	
		113-119	-132.33	99.75	99.32	69.07	68.62	-221.74	-229.60	-0.00	-0.00	-0.00	-0.00	-0.00	
		801-R11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		812-R22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
		823-R24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 5, SOLAR ON, CONTACT WITH COLD SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
8 40	2-12	43.19	121.84	32.51	-10.84	18.34	32.51	46.42	60.08	32.51	46.42	51.00	51.00	32.51	46.42	60.08	51.00
	13-23	-0.00	32.51	60.08	23.57	9.71	51.00	33.91	14.04	32.98	33.91	32.98	32.98	32.98	32.98	32.98	32.98
	24-29	51.00	46.42	-0.00	29.23	56.92	51.91	60.08	46.42	-0.00	60.08	51.00	51.00	-0.00	55.55	41.81	51.00
8 40	31-41	46.42	33.91	33.44	32.51	56.01	51.91	60.08	46.42	-0.00	60.08	51.00	51.00	-0.00	55.55	41.81	51.00
	42-52	41.81	60.08	41.81	-0.98	23.09	13.56	32.51	41.81	41.81	38.57	38.57	38.57	41.81	41.81	41.81	10.20
	53-59	-9.84	55.55	55.55	64.59	57.37	41.81	38.57	41.81	41.81	38.57	38.57	38.57	41.81	41.81	41.81	10.20
8 40	61-71	55.55	41.81	3.90	3.90	18.34	74.86	65.04	4.39	19.30	3.90	3.90	3.90	19.30	3.90	3.90	-15.32
	72-82	83.24	23.09	0.49	14.52	82.36	73.52	-0.00	-0.00	-143.58	-66.42	-66.42	-66.42	-143.58	-66.42	-66.42	46.42
	83-89	-170.56	119.29	-14.82	-135.67	-198.39	-184.84	-142.95	-0.00	-85.14	-189.80	-151.24	-151.24	-85.14	-189.80	-151.24	-0.00
8 40	91-101	-150.60	37.17	-124.36	-113.52	26.87	104.90	-205.78	-0.00	27.35	-0.00	-0.00	-0.00	27.35	-0.00	19.30	-0.00
	102-112	-148.04	-144.85	-151.24	-0.00	-0.00	17.87	21.20	27.35	-0.00	19.30	-0.00	-0.00	-0.00	19.30	-0.00	-0.00
	113-119	-132.33	99.75	99.32	69.07	68.62	-221.74	-229.60	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
8 50	2-12	46.42	121.00	32.51	-10.94	18.34	32.51	46.42	60.54	32.51	46.42	51.00	51.00	32.51	46.42	60.08	51.00
	13-23	-0.00	32.51	60.08	23.09	9.23	52.00	32.98	18.34	37.17	32.98	32.98	32.98	32.98	32.98	32.98	32.98
	24-29	51.00	46.42	46.42	29.23	60.08	52.37	60.08	46.42	-0.00	60.08	51.00	51.00	-0.00	55.55	41.81	51.45
8 50	31-41	46.42	33.91	32.51	29.70	56.01	51.00	60.08	46.42	-0.00	60.08	51.00	51.00	-0.00	55.55	41.81	51.45
	42-52	47.33	60.08	41.81	3.90	23.09	14.52	32.51	41.81	41.81	38.57	38.57	38.57	41.81	41.81	41.81	13.56
	53-59	-10.34	55.55	55.55	64.59	57.37	38.57	38.57	41.81	41.81	38.57	38.57	38.57	41.81	41.81	41.81	13.56
8 50	61-71	55.55	41.81	5.36	3.90	18.34	77.95	65.04	4.68	19.30	4.39	4.39	4.39	19.30	4.39	4.39	-15.32
	72-82	83.68	23.09	0.49	18.34	82.80	73.97	-0.00	-0.00	-35.13	-72.93	-72.93	-72.93	-35.13	-72.93	-72.93	-0.00
	83-89	-189.80	52.37	91.10	-163.00	18.34	3.90	-136.67	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
8 50	91-101	-125.57	34.38	37.17	-124.36	-5.89	23.09	41.81	-0.00	71.74	3.42	-176.49	-176.49	71.74	3.42	-176.49	-0.00
	102-112	-177.18	-169.01	-176.49	-0.00	-0.00	18.34	22.62	27.35	-0.00	22.62	-0.00	-0.00	-0.00	22.62	-0.00	-0.00
	113-119	-131.71	99.75	99.32	69.07	68.62	-263.22	-271.38	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
9 0	2-12	46.42	122.26	33.91	-10.34	18.34	33.44	46.42	61.44	32.51	46.42	51.00	51.00	32.51	46.42	60.54	56.46
	13-23	-0.00	32.51	60.08	23.57	9.71	51.00	33.91	32.51	55.55	33.91	32.98	32.98	32.98	32.98	32.98	32.98
	24-29	51.00	46.88	-0.00	29.70	60.08	55.55	60.08	46.42	-0.00	60.08	51.00	51.00	-0.00	56.01	41.81	51.91
9 0	31-41	45.96	33.44	33.44	32.51	56.01	52.37	60.08	46.42	-0.00	60.08	51.00	51.00	-0.00	56.01	41.81	51.91
	42-52	56.52	60.08	45.96	19.30	24.51	18.34	32.98	41.81	41.81	38.57	38.57	38.57	41.81	41.81	41.81	13.56
	53-59	-9.84	56.46	50.08	69.07	60.08	46.88	46.42	46.42	46.42	38.57	38.57	38.57	41.81	41.81	41.81	13.56
9 0	61-71	56.46	43.65	8.75	0.49	18.34	69.96	74.41	27.62	23.09	3.90	-15.32	-15.32	23.09	3.90	3.90	32.51
	72-82	73.52	51.00	-0.98	15.00	69.07	64.59	-0.00	-0.00	79.28	-87.97	-87.97	-87.97	79.28	-87.97	-87.97	32.51
	83-89	-213.30	0.98	134.36	-196.93	82.36	51.00	-131.09	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
9 0	91-101	-101.17	46.42	105.75	-131.09	-46.06	-78.44	117.61	-0.00	96.74	68.62	-210.27	-210.27	96.74	68.62	-210.27	-0.00
	102-112	-214.05	-199.13	-206.53	-0.00	-0.00	18.82	21.20	27.35	-0.00	22.62	-0.00	-0.00	-0.00	22.62	-0.00	-0.00
	113-119	-137.30	99.75	99.32	69.07	68.62	-281.70	-281.70	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
-0	801-B11	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	812-B22	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
	823-B24	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 5, SOLAR ON, CONTACT WITH COLD SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
9	6	2-12	46.42	121.00	37.17	-9.35	18.34	33.44	46.42	61.44	32.51	46.88	51.00
		13-23	-0.00	33.44	60.08	23.09	8.75	51.00	33.91	33.91	56.92	60.54	56.46
9	6	24-29	51.00	46.42	-0.00	32.51	57.82	55.55	60.08	46.42	-0.00	56.01	52.37
		31-41	-0.00	33.91	32.51	29.70	56.01	51.45	32.98	41.81	41.81	41.81	10.20
		42-52	60.08	60.08	43.65	27.82	24.51	18.82	47.79	38.10	24.51	-0.49	-10.84
9	6	53-59	-9.84	60.08	60.99	69.07	60.08	51.00	77.95	-0.00	91.10	-69.67	32.51
		61-71	60.08	47.79	5.36	0.49	18.82	65.04	60.08	-0.00	-0.00	-0.00	-0.00
		72-82	67.28	60.08	-4.41	15.00	60.99	60.08	-0.00	-0.00	-0.00	-0.00	-0.00
		83-89	-219.42	-5.40	145.89	-196.93	84.56	51.00	-129.86	-0.00	99.32	73.08	-212.54
9	6	91-101	-100.58	46.42	116.77	-137.92	-46.59	-100.58	122.26	27.35	-0.00	20.25	-0.00
		102-112	-214.06	-202.81	-206.53	-0.00	-0.00	18.34	22.62	-0.00	-0.00	-0.00	-0.00
		113-119	-124.97	100.18	99.32	69.52	68.62	-271.38	-272.30	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
9	6	2-12	46.88	122.26	37.17	-8.85	18.34	33.91	46.42	61.44	32.51	46.88	51.00
		13-23	-0.00	32.98	60.08	23.57	9.23	51.45	33.91	34.38	60.08	60.54	60.08
		24-29	52.37	46.42	-0.00	32.51	60.08	55.55	60.08	46.42	-0.00	56.01	52.37
9	6	31-41	47.33	33.44	32.51	32.51	56.01	-0.00	60.08	41.81	42.73	41.81	9.71
		42-52	60.99	60.08	46.42	32.51	24.51	18.82	32.98	41.81	24.51	-0.98	-10.84
		53-59	-10.34	60.08	51.44	69.07	60.08	51.45	51.00	-0.00	91.10	-90.24	32.51
9	6	61-71	60.08	51.00	4.88	0.49	18.82	65.04	77.95	41.81	24.51	-0.98	-10.84
		72-82	65.94	60.08	4.41	14.52	60.08	56.92	-0.00	-0.00	91.10	-90.24	32.51
		83-89	-219.42	-5.89	147.12	-198.39	86.74	51.45	-129.86	-0.00	100.61	75.30	-213.30
9	6	91-101	-100.58	46.42	116.77	-136.67	-50.28	-101.75	123.52	27.35	-0.00	19.77	-0.00
		102-112	-214.06	-203.55	-206.53	-0.00	-0.00	18.82	22.62	-0.00	-0.00	-0.00	-0.00
		113-119	-126.18	100.61	99.32	69.52	68.62	-269.54	-271.38	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
9	10	2-12	46.88	122.26	37.17	-5.89	18.34	33.91	46.88	61.44	32.51	46.88	51.00
		13-23	-0.00	33.44	60.08	23.57	9.23	51.45	33.91	32.98	60.08	60.54	56.92
		24-29	51.91	47.79	-0.00	32.51	60.08	55.55	60.08	46.88	-0.00	55.55	52.37
9	10	31-41	46.88	33.91	33.44	32.51	56.46	52.37	60.08	46.88	-0.00	55.55	52.37
		42-52	61.44	60.54	46.42	32.98	27.82	18.34	33.44	41.81	43.19	41.81	9.71
		53-59	-9.84	60.08	64.59	69.52	60.08	52.37	51.00	43.19	27.82	-0.98	-10.84
9	10	61-71	60.08	51.00	4.88	0.49	18.34	64.59	77.95	-0.00	91.97	-90.24	30.63
		72-82	65.04	60.54	-4.41	14.52	60.08	56.01	-0.00	-0.00	100.61	75.74	-213.30
		83-89	-219.42	-5.89	149.57	-202.81	86.74	51.00	-130.48	-0.00	-0.00	19.77	-0.00
9	10	91-101	-100.00	46.42	117.61	-136.67	-50.81	-105.64	123.52	-0.00	100.61	75.74	-213.30
		102-112	-217.88	-203.55	-206.53	-0.00	-0.00	18.82	22.62	25.93	-0.00	19.77	-0.00
		113-119	-126.18	100.61	99.32	69.52	71.30	-263.22	-268.63	-0.00	-0.00	-0.00	-0.00
		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 5, SOLAR ON, CONTACT WITH COLD SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
9	13	46.88	122.26	37.17	-5.89	18.34	33.91	46.42	60.99	32.51	47.33	51.00	
	13-23	-0.00	33.91	60.08	23.57	8.75	51.00	34.38	33.44	60.08	60.54	56.92	
9	13	51.45	47.79	-0.00	32.51	60.08	55.55		46.88	-0.00	56.01	52.37	
	31-41	46.88	33.91	33.91	32.51	56.46	52.37	60.08	41.81	43.65	41.81	9.71	
	42-52	64.59	60.54	46.42	34.38	24.99	18.34	32.98					
9	13	-10.84	60.08	54.59	69.52	60.08	55.55	51.00	46.42	27.82	-0.98	-10.84	
	61-71	60.08	51.00	4.39	0.49	18.34	65.49	77.95	-0.00	95.44	-90.24	30.63	
	72-82	64.59	61.44	-4.41	14.52	56.92	55.55	-0.00					
	83-89	-219.42	-6.88	149.57	-203.55	85.43	51.00	-130.48	-0.00	100.18	75.74	-213.30	
9	13	-100.58	46.42	118.45	-136.67	-51.87	-107.60	125.19	-0.00	-0.00	19.30	-0.00	
	102-112	-217.88	-204.29	-206.53	-0.00	-0.00	18.82	22.62	27.35	-0.00			
	113-119	-126.18	100.61	99.32	69.52	71.30	-261.44	-263.22	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
9	15	46.88	121.00	37.17	-5.89	15.46	33.44	46.88	60.99	32.51	47.33	51.00	
	13-23	-0.00	33.91	60.08	23.09	8.27	51.00	34.38	33.91	60.08	60.54	56.92	
9	15	51.45	47.33	-0.00	32.51	60.08	55.55		46.42	-0.00	56.01	52.37	
	31-41	47.33	33.91	32.98	32.51	56.46	51.91	60.08	41.81	46.42	41.81	9.71	
	42-52	64.59	60.08	46.42	37.17	25.46	18.34	32.51					
9	15	-10.84	60.08	54.59	69.52	60.08	55.55	51.00	47.33	27.82	-0.98	-10.84	
	61-71	60.08	51.45	3.90	0.49	18.34	62.34	77.95	-0.00	95.44	-90.24	30.17	
	72-82	64.59	64.59	-4.41	14.04	55.55	55.55	-0.00					
	83-89	-220.19	-7.86	153.65	-204.29	85.43	51.45	-129.86	-0.00	99.32	76.19	-213.30	
9	15	-100.58	46.42	121.00	-137.92	-51.34	-107.01	125.19	-0.00	-0.00	19.77	-0.00	
	102-112	-218.65	-205.04	-207.27	-0.00	-0.00	18.34	22.62	27.35	-0.00			
	113-119	-126.18	101.04	99.32	69.96	71.74	-259.67	-262.33	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
9	18	46.88	122.26	37.17	-5.89	18.34	33.91	46.88	60.99	32.51	47.33	51.00	
	13-23	-0.00	34.38	60.08	23.57	8.75	51.00	37.64	37.17	60.08	60.99	56.92	
9	18	52.37	47.79	-0.00	32.51	60.08	55.55		46.42	-0.00	56.01	52.37	
	31-41	47.33	33.91	32.98	32.51	56.46	52.37	60.08	42.73	46.42	41.81	9.23	
	42-52	64.59	60.54	46.42	37.17	27.82	18.82	32.98					
9	18	-9.84	60.08	65.04	70.41	60.08	55.55	51.45	51.00	29.23	-0.98	-10.34	
	61-71	60.08	51.91	3.90	0.49	18.34	64.59	77.95	-0.00	95.44	-90.24	32.51	
	72-82	64.59	64.59	-0.98	14.04	55.55	55.55	-0.00					
	83-89	-220.19	-5.89	154.05	-203.55	86.74	51.91	-130.48	-0.00	100.18	76.19	-213.30	
9	18	-100.58	46.42	121.00	-137.92	-50.81	-106.43	125.19	-0.00	-0.00	19.77	-0.00	
	102-112	-218.65	-205.04	-206.53	-0.00	-0.00	18.34	22.62	24.99	-0.00			
	113-119	-126.18	101.04	101.90	69.96	71.74	-254.43	-260.55	-0.00	-0.00	-0.00	-0.00	
-0	801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	
	823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 5, SOLAR ON, CONTACT WITH COLD SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
9	20	2-12	46.88	122.60	37.17	-5.89	18.34	33.91	47.33	60.99	32.51	47.79	51.00
		13-23	-0.00	37.17	60.08	23.57	8.75	51.00	37.64	37.17	60.08	60.99	56.46
9	20	24-29	51.91	47.79	-0.00	32.51	60.08	55.55					
		31-41	47.33	34.84	32.98	32.51	56.46	52.37	60.08	46.42	-0.00	56.01	52.37
		42-52	64.59	60.08	46.42	37.64	27.82	18.82	32.98	43.19	46.42	41.81	9.23
9	20	53-59	-9.84	60.08	65.04	70.41	60.08	55.55	51.91	51.45	32.51	-0.98	-10.34
		61-71	60.54	52.37	3.90	0.49	18.34	64.59	77.95	-0.00	95.87	-90.24	32.51
		72-82	64.59	65.04	-0.98	14.04	55.55	55.55	-0.00				
9	20	83-89	-220.19	-5.89	157.30	-205.04	87.18	52.37	-131.09	-0.00			
		91-101	-100.58	46.88	121.42	-137.30	-51.34	-107.01	127.28	-0.00	103.61	77.51	-214.06
		102-112	-214.06	-205.04	-207.27	-0.00	-0.00	18.34	22.62	24.99	-0.00	19.30	-0.00
		113-119	-125.57	101.04	101.90	70.41	72.19	-253.57	-254.43	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
9	30	2-12	47.79	122.26	38.10	-5.89	18.34	33.91	51.00	60.99	33.44	51.00	51.00
		13-23	-0.00	37.17	60.08	23.57	8.75	51.00	38.10	38.57	60.99	60.99	56.92
9	30	24-29	55.55	51.00	-0.00	33.44	60.08	55.55					
		31-41	47.79	37.17	37.17	32.51	56.92	52.37	60.08	46.88	-0.00	56.46	53.28
		42-52	69.07	60.54	47.33	46.42	28.29	18.82	32.98	46.42	47.79	41.81	8.75
9	30	53-59	-9.35	61.44	65.94	73.52	60.99	57.37	55.55				
		61-71	65.04	55.55	3.90	3.90	18.34	60.08	78.40	60.08	37.17	-0.98	-5.89
		72-82	60.08	69.07	-0.98	13.56	51.00	51.91	-0.00	-0.00	99.75	-90.24	32.51
		83-89	-220.19	-4.90	160.94	-205.78	87.62	52.37	-131.09	-0.00			
9	30	91-101	-100.58	46.88	125.19	-142.32	-51.87	-106.43	129.37	-0.00	103.61	77.51	-214.06
		102-112	-219.42	-205.04	-206.53	-0.00	-0.00	17.87	19.77	23.57	-0.00	18.62	-0.00
		113-119	-126.18	104.04	102.76	73.52	73.08	-237.65	-237.65	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
9	40	2-12	51.00	121.00	41.81	-4.90	15.48	33.44	51.00	60.08	32.51	51.00	51.45
		13-23	-0.00	37.64	60.08	23.09	8.75	51.00	36.71	42.27	64.59	60.99	56.92
9	40	24-29	55.55	51.00	-0.00	37.17	60.08	55.55					
		31-41	51.00	37.17	37.17	32.98	37.17	52.82	60.08	46.42	-0.00	56.92	55.55
		42-52	69.07	60.08	48.71	55.55	29.23	18.82	32.51	47.33	51.00	41.81	8.75
9	40	53-59	-9.35	64.59	69.07	73.52	64.59	60.08	56.01				
		61-71	65.04	56.92	-0.49	3.90	18.34	60.08	78.84	65.94	41.81	-0.98	-5.89
		72-82	60.08	69.52	0.49	13.56	47.79	51.91	-0.00	-0.00	99.75	-93.66	32.51
		83-89	-220.97	-0.98	162.15	-205.78	88.05	51.91	-130.48	-0.00			
9	40	91-101	-101.75	46.42	125.19	-142.32	-51.87	-100.58	129.37	-0.00	102.76	77.51	-214.06
		102-112	-220.19	-205.78	-211.78	-0.00	-0.00	-0.00	-0.00	22.62	-0.00	18.34	-0.00
		113-119	-126.18	104.04	103.61	73.52	73.08	-237.65	-237.65	-0.00	-0.00	-0.00	-0.00
-0		801-811	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		812-822	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
		823-824	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EX5, 11-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 6, SOLAR ON, SPACECRAFT HEATERS ON
 THERM. DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT										
9 40	2-12	51.00	121.00	41.81	-4.90	15.48	33.44	51.00	60.08	32.51	51.00	51.45
	13-23	9999.00	37.64	60.08	23.09	8.75	51.00	36.71	42.27	64.59	60.99	56.92
9 40	24-29	55.55	51.00	9999.00	37.17	60.08	55.55					
	31-41	51.00	37.17	37.17	32.98	60.08	52.82	60.08	46.42	9999.00	56.92	55.55
	42-52	69.07	60.08	48.71	55.55	29.23	18.82	32.51	47.33	51.00	41.81	8.75
9 40	53-59	-9.35	64.59	69.07	73.52	64.59	60.08	56.01	65.94	41.81	-0.98	-5.89
	51-71	65.04	56.92	-0.49	3.90	18.34	60.08	78.84	9999.00	99.75	-93.66	32.51
	72-82	60.08	69.52	0.49	13.56	47.79	51.91	9999.00				
9 40	83-89	-220.97	-0.98	162.15	-205.78	88.05	51.91	-130.48	9999.00	102.76	77.51	-214.06
	91-101	-101.75	46.42	125.19	-142.52	-51.87	-100.58	129.37	22.62	9999.00	18.34	9999.00
	102-112	-220.19	-205.78	-211.78	9999.00	9999.00	9999.00	9999.00				
	113-120	-126.18	104.04	103.61	73.52	73.08	-237.65	-237.65	9999.00			
9 50	2-12	51.45	122.26	41.81	-0.98	18.34	33.91	51.00	60.54	32.51	51.00	51.91
	13-23	9999.00	38.10	60.08	23.09	8.75	51.00	37.64	44.12	65.49	60.99	56.92
9 50	24-29	55.55	51.00	9999.00	37.17	59.63	56.01					
	31-41	51.45	37.17	36.24	33.91	60.08	55.55	60.54	46.42	9999.00	56.92	55.55
	42-52	73.52	60.08	51.00	60.08	32.51	18.34	32.51	9999.00	55.55	41.81	8.75
9 50	53-59	-8.85	64.59	69.07	73.52	64.59	59.63	56.46	69.52	41.81	-0.98	-5.89
	51-71	64.59	60.08	-0.98	3.90	15.48	60.08	78.40	9999.00	99.75	-94.23	32.51
	72-82	60.08	70.85	3.90	13.56	46.42	51.91	9999.00				
9 50	83-89	-220.97	-3.92	162.15	-205.78	86.74	51.91	-130.48	9999.00	103.19	76.19	-214.06
	91-101	-101.75	42.73	125.19	-142.52	-60.43	-87.97	129.37	22.62	9999.00	17.87	9999.00
	102-112	-200.60	-191.96	-191.95	9999.00	9999.00	17.87	17.87				
	113-120	-129.85	104.04	103.61	73.52	73.08	-235.21	-236.83	9999.00			
9 52	2-12	51.45	125.19	41.81	-0.98	18.34	33.91	51.00	60.54	32.51	51.00	52.37
	13-23	9999.00	38.10	60.08	23.09	8.75	51.00	37.64	41.81	60.54	60.99	56.92
9 52	24-29	55.55	51.45	9999.00	37.17	60.08	56.01					
	31-41	49.17	37.17	38.10	33.91	60.08	55.55	60.54	46.88	9999.00	56.92	54.19
	42-52	65.49	60.54	51.00	55.55	32.51	19.30	32.98	9999.00	55.55	41.81	8.75
9 52	53-59	-5.89	64.59	69.07	73.52	64.59	60.08	56.46	70.41	42.27	-0.98	-5.89
	51-71	65.04	60.08	-0.98	4.88	15.00	60.08	78.84	9999.00	19.30	-77.33	37.17
	72-82	60.08	70.41	3.90	13.56	46.88	52.37	9999.00				
9 52	83-89	-182.03	104.04	77.95	-168.34	-57.20	-77.88	-136.05	9999.00	3.42	-0.98	-189.80
	91-101	-125.57	41.81	-5.89	-112.95	99.00	84.12	-20.34	22.62	9999.00	17.87	9999.00
	102-112	-161.02	-182.73	-184.84	9999.00	9999.00	17.87	18.34				
	113-120	-125.57	104.04	103.61	73.52	73.08	-229.60	-236.02	9999.00			
9 53	2-12	51.45	122.68	41.81	-0.98	18.34	33.91	51.91	60.54	32.51	51.00	52.37
	13-23	9999.00	39.57	60.08	24.14	8.75	51.00	38.57	33.91	52.82	60.99	56.92
9 53	24-29	55.55	51.00	9999.00	37.17	60.08	56.01					
	31-41	51.00	37.17	37.17	34.38	60.08	55.55	60.54	46.88	9999.00	56.92	55.55
	42-52	64.59	60.54	51.00	52.37	32.51	19.30	33.44	9999.00	55.55	41.81	8.75
9 53	53-59	-5.89	64.59	69.07	73.52	65.04	60.08	56.46	69.96	43.19	-0.98	-5.89
	51-71	65.94	60.08	-0.98	5.36	15.00	60.08	78.84	9999.00	-15.82	-67.49	38.57
	72-82	60.08	69.96	3.90	13.56	51.00	55.55	9999.00				
9 53	83-89	-157.08	113.82	55.55	-150.40	-106.43	-123.14	-137.30	9999.00	-83.46	-85.14	-175.81
	91-101	-136.05	39.49	-46.05	-106.43	8.75	99.75	-77.88	22.62	9999.00	17.87	9999.00
	102-112	-135.43	-164.33	-175.12	9999.00	9999.00	17.87	16.34				
	113-120	-124.97	104.04	103.61	74.41	73.08	-228.01	-229.60	9999.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 6, SOLAR ON, SPACECRAFT HEATERS ON
 THERM. DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT											
9 55	2- 12	51.91	125.19	41.81	-0.98	18.34	33.91	51.45	60.54	33.44	51.00	52.37	
	13- 23	9999.00	38.57	60.03	23.57	8.75	51.00	38.10	32.51	51.00	60.99	56.92	
9 55	24- 29	55.55	51.45	9999.00	37.17	60.08	56.01	60.99	46.88	9999.00	56.92	55.55	
	31- 41	51.00	38.10	37.17	37.17	60.08	55.55	33.44	9999.00	55.55	41.81	8.75	
9 55	42- 52	60.54	60.54	51.00	51.00	32.51	19.30	60.99	46.88	9999.00	56.92	8.75	
	53- 59	-5.89	64.59	69.07	73.52	64.59	60.08	56.01	69.07	43.19	-0.98	-5.89	
	71- 71	65.49	60.08	-0.98	3.36	15.00	60.08	78.40	9999.00	-36.16	-62.59	39.49	
	72- 82	61.89	69.07	3.90	13.56	52.37	55.55	9999.00	9999.00				
9 55	83- 89	-142.95	115.51	41.81	-135.67	-131.09	-144.22	-136.67	9999.00	-101.75	-105.84	-164.33	
	91-101	-137.92	37.54	-67.49	-101.17	9.71	104.04	-106.43	9999.00	22.62	17.87	9999.00	
	102-112	-130.48	9999.00	-164.33	9999.00	9999.00	17.87	17.87	22.62	9999.00	17.87	9999.00	
	113-120	-126.13	104.04	103.61	73.97	75.08	-214.06	-214.06	9999.00				
9 57	2- 12	51.91	125.19	41.81	-0.98	18.34	33.91	51.45	60.54	32.98	51.00	52.37	
	13- 23	9999.00	38.57	60.03	24.04	8.75	51.00	38.10	28.76	46.42	60.99	56.92	
9 57	24- 29	55.55	51.45	9999.00	37.17	60.08	56.46	60.99	47.33	9999.00	57.37	55.55	
	31- 41	49.63	37.54	38.10	37.17	60.08	55.55	33.44	9999.00	55.55	41.81	8.75	
9 57	42- 52	60.08	60.54	51.45	51.00	32.98	19.30	60.99	47.33	9999.00	57.37	55.55	
	53- 59	-5.89	64.59	69.07	73.52	65.04	60.08	55.55	69.07	43.19	-0.98	-5.89	
	71- 71	65.49	60.08	-0.98	9.75	15.00	60.08	77.95	9999.00	-55.06	-60.97	41.81	
	72- 82	64.59	64.59	3.90	13.56	56.01	56.92	9999.00	9999.00				
9 57	83- 89	-137.92	117.19	32.51	-131.71	-142.95	-155.78	-136.67	9999.00	-107.60	-119.51	-95.96	
	91-101	-142.32	37.54	-82.90	-100.00	11.16	104.04	-124.97	9999.00	22.62	17.87	9999.00	
	102-112	-117.71	-149.96	-157.08	9999.00	9999.00	17.87	17.87	22.62	9999.00	17.87	9999.00	
	113-120	-124.97	104.04	103.61	73.52	73.08	-196.20	-199.13	9999.00				
9 58	2- 12	51.91	121.42	42.27	-0.98	18.34	33.91	51.91	60.08	33.44	51.00	52.37	
	13- 23	9999.00	39.03	60.03	23.09	8.75	51.00	38.57	27.82	46.42	60.99	56.92	
9 58	24- 29	55.55	51.45	9999.00	37.17	59.63	56.46	60.99	46.88	9999.00	57.37	55.55	
	31- 41	51.00	37.54	37.17	37.17	60.08	55.55	32.51	9999.00	55.55	41.81	8.75	
9 58	42- 52	60.08	60.08	51.00	45.42	32.51	18.34	60.99	46.88	9999.00	57.37	55.55	
	53- 59	-5.89	64.59	65.94	70.41	64.59	56.92	55.55	65.49	43.19	-0.98	-5.89	
	71- 71	65.04	57.37	-0.98	5.33	15.00	62.34	74.86	9999.00	-66.42	-57.20	41.81	
	72- 82	66.38	60.99	3.90	13.56	60.08	60.08	9999.00	9999.00				
9 58	83- 89	-136.67	116.77	23.57	-130.48	-155.13	-162.34	-137.30	9999.00	-112.93	-126.16	-151.24	
	91-101	-144.22	36.24	-95.38	-95.96	13.56	104.04	-137.92	9999.00	22.62	18.34	9999.00	
	102-112	-113.52	-144.22	-151.24	9999.00	9999.00	17.87	17.87	22.62	9999.00	17.87	9999.00	
	113-120	-125.57	104.04	103.61	73.97	73.08	-171.04	-177.87	9999.00				
10 0	2- 12	52.37	125.19	42.27	-0.98	18.34	33.91	52.37	60.54	32.51	51.00	52.82	
	13- 23	9999.00	39.03	60.03	24.04	8.75	51.00	38.57	27.82	43.19	60.99	56.92	
10 0	24- 29	55.55	51.91	9999.00	37.17	60.08	56.46	61.44	47.33	9999.00	57.37	55.55	
	31- 41	49.63	38.10	38.10	37.17	60.08	55.55	33.44	9999.00	55.55	41.81	8.75	
10 0	42- 52	57.37	60.54	51.45	45.42	32.98	19.77	60.99	47.33	9999.00	57.37	55.55	
	53- 59	-5.89	64.59	65.94	70.41	65.04	56.92	55.55	64.59	43.65	-0.98	-5.89	
	71- 71	65.49	56.46	-0.98	9.75	18.34	64.59	74.41	9999.00	-73.48	-57.20	41.81	
	72- 82	69.07	60.08	4.39	13.56	64.59	68.54	9999.00	9999.00				
10 0	83- 89	-136.05	118.03	18.34	-124.97	-161.68	-168.34	-136.05	9999.00	-118.31	-136.67	-148.68	
	91-101	-143.58	37.17	-105.84	-95.96	13.56	108.73	-148.68	9999.00	22.62	17.87	9999.00	
	102-112	-108.19	-138.55	-149.32	9999.00	9999.00	17.87	17.87	22.62	9999.00	17.87	9999.00	
	113-120	-125.57	104.04	103.61	73.97	73.08	-151.24	-157.73	9999.00				

APOLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 6, SOLAR ON, SPACECRAFT HEATERS ON
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
10	2	52.37	122.26	42.27	-0.98	18.34	33.91	52.37	60.54	32.51	51.00	55.55					
		9999.00	39.03	60.08	37.17	60.08	51.00	39.03	27.82	42.73	60.99	56.92					
10	2	55.55	52.37	9999.00	37.17	60.08	56.46	61.44	47.79	9999.00	60.08	55.10					
		51.00	38.57	37.17	60.08	55.55	55.55	55.55	9999.00	55.55	41.81	8.75					
10	2	56.45	60.54	51.45	42.73	32.98	19.77	33.44	9999.00	55.55	41.81	8.75					
		-5.89	64.59	65.49	69.26	65.04	55.55	55.55	61.44	43.65	0.00	-5.89					
10	2	65.49	56.01	-0.49	9.75	15.48	65.04	73.52	61.44	43.65	0.00	-5.89					
		70.41	55.55	4.39	13.56	64.59	64.59	9999.00	9999.00	-83.46	-57.20	41.81					
10	2	-131.09	117.51	9.71	-124.36	-163.66	-169.68	-136.67	9999.00	9999.00	9999.00	9999.00					
		-144.22	37.17	-112.33	-95.96	13.56	109.16	-156.43	9999.00	9999.00	9999.00	9999.00					
10	2	-108.19	-136.67	-144.85	9999.00	9999.00	17.87	17.87	22.62	9999.00	17.87	9999.00					
		-126.19	104.04	103.61	73.52	73.08	-126.10	-132.33	9999.00	9999.00	9999.00	9999.00					
10	4	52.37	122.68	42.73	-0.98	18.34	33.91	52.37	60.54	32.51	51.45	55.55					
		9999.00	41.81	60.08	24.94	8.75	51.45	41.81	27.82	41.81	60.99	56.92					
10	4	56.01	52.37	9999.00	37.17	60.08	56.46	61.44	47.79	9999.00	60.08	55.10					
		49.63	38.57	38.10	37.17	60.08	56.01	52.98	9999.00	55.55	41.81	8.75					
10	4	56.45	60.54	52.37	41.81	32.98	19.77	32.98	60.08	43.19	0.49	-5.89					
		-5.89	64.59	65.49	69.26	65.04	56.01	52.82	9999.00	-90.24	-57.20	41.81					
10	4	65.49	55.55	-0.49	9.75	18.34	69.52	73.52	60.08	43.19	0.49	-5.89					
		73.52	55.55	5.35	13.56	65.94	65.04	9999.00	9999.00	-90.24	-57.20	41.81					
10	4	-130.49	118.87	4.88	-123.75	-170.36	-170.36	-137.30	9999.00	9999.00	9999.00	9999.00					
		-148.68	37.17	-118.31	-95.38	13.56	112.55	-161.68	9999.00	9999.00	9999.00	9999.00					
10	4	-105.64	-132.33	-142.95	9999.00	9999.00	17.87	18.34	22.62	9999.00	17.87	9999.00					
		-126.19	104.04	103.61	73.52	73.08	-102.33	-113.52	9999.00	9999.00	9999.00	9999.00					
10	6	52.37	121.84	42.73	-0.98	18.34	33.91	52.37	60.54	32.51	51.45	55.55					
		9999.00	38.57	60.08	23.57	8.75	51.00	41.81	27.82	41.81	60.99	56.92					
10	6	56.01	52.37	9999.00	37.44	60.08	56.92	61.44	47.79	9999.00	60.08	55.55					
		49.63	38.57	38.57	37.17	60.08	56.01	33.44	55.55	55.55	41.81	9.23					
10	6	55.55	60.54	52.37	39.57	32.98	19.77	33.44	9999.00	9999.00	60.08	55.55					
		-5.89	64.59	64.59	69.07	64.59	55.55	51.91	60.08	42.73	0.98	-5.89					
10	6	64.59	55.55	-0.99	8.75	15.48	69.07	73.52	60.08	42.73	0.98	-5.89					
		73.52	51.00	5.35	13.56	69.07	64.59	9999.00	9999.00	-95.38	-57.20	41.81					
10	6	-130.49	118.87	0.00	-123.75	-175.12	-176.49	-137.92	9999.00	9999.00	9999.00	9999.00					
		-149.32	35.24	-124.36	-94.81	13.56	110.43	-163.66	9999.00	9999.00	9999.00	9999.00					
10	6	-102.33	-130.48	-138.55	9999.00	9999.00	17.87	17.87	22.62	9999.00	17.87	9999.00					
		-125.57	104.04	103.61	73.52	73.08	-79.55	-90.81	9999.00	9999.00	9999.00	9999.00					
10	8	52.37	121.84	42.73	-0.98	18.34	33.91	52.37	60.08	32.51	51.45	55.55					
		9999.00	38.57	60.08	23.99	8.75	51.00	39.03	24.99	41.81	60.99	56.92					
10	8	55.55	52.37	9999.00	37.17	60.08	56.46	61.44	47.79	9999.00	60.08	55.55					
		51.00	39.57	37.64	37.17	60.08	55.55	32.98	55.55	55.55	41.81	9.23					
10	8	55.55	60.54	51.91	37.17	33.44	19.77	32.98	9999.00	9999.00	60.08	55.55					
		-5.89	64.59	64.59	69.07	65.04	55.55	51.45	60.08	42.73	3.90	-8.36					
10	8	65.04	55.55	0.00	9.71	18.34	69.96	70.41	56.46	42.73	3.90	-8.36					
		74.41	51.00	8.75	13.56	69.07	65.94	9999.00	9999.00	-101.75	-56.67	41.81					
10	8	-130.49	118.45	-0.99	-118.91	-175.81	-177.18	-137.92	9999.00	9999.00	9999.00	9999.00					
		-149.95	35.78	-129.85	-94.23	13.56	110.01	-169.01	9999.00	9999.00	9999.00	9999.00					
10	8	-101.75	-128.53	-137.92	9999.00	9999.00	17.87	17.87	22.62	9999.00	17.87	9999.00					
		-126.19	104.04	103.61	73.52	73.08	-57.74	-68.03	9999.00	9999.00	9999.00	9999.00					

APO-LD EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 6, SOLAR ON, SPACECRAFT HEATERS ON
 THERMAL DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

10 10	2- 12	52.37	121.84	42.75	-0.98	18.34	34.38	52.37	60.99	32.51	51.91	55.55
	13- 23	9999.00	38.57	60.08	24.94	8.75	51.00	41.81	24.99	41.81	60.99	56.92
10 10	24- 29	56.01	52.37	9999.00	37.17	60.08	56.92	61.44	47.79	9999.00	60.08	55.55
	31- 41	51.00	38.57	37.64	37.17	60.08	55.55	33.44	55.55	55.55	41.81	9.23
	42- 52	55.55	60.54	51.91	37.17	33.44	23.09	51.00	55.55	55.55	41.81	
	53- 59	-5.89	64.59	65.04	69.17	65.04	52.37	51.00	55.55	42.27	3.90	-5.89
10 10	51- 71	65.04	55.55	0.49	9.71	18.34	69.07	9999.00	9999.00	-105.64	-56.67	41.81
	72- 82	75.30	47.79	8.75	13.56	69.07	69.07	9999.00	9999.00	9999.00	9999.00	9999.00
	83- 89	-129.86	119.87	-0.99	-119.31	-177.18	-175.81	-137.92	9999.00	9999.00	9999.00	9999.00
10 10	91-101	-150.60	35.78	-130.48	-90.24	13.56	112.55	-175.12	9999.00	-126.18	-157.73	-142.95
	102-112	-100.00	-125.57	-132.33	9999.00	9999.00	17.87	18.34	22.62	9999.00	17.87	9999.00
	113-120	-125.57	104.04	103.61	73.97	73.08	-36.68	-47.11	9999.00	9999.00	9999.00	9999.00
10 20	2- 12	55.55	121.84	43.19	-0.98	18.34	34.38	52.82	61.44	33.44	51.91	55.55
	13- 23	9999.00	38.57	60.08	23.19	8.75	51.00	39.49	23.57	41.81	61.44	57.37
10 20	24- 29	56.01	52.37	9999.00	37.17	60.08	56.92	64.59	47.79	9999.00	60.08	56.01
	31- 41	55.55	39.49	38.10	37.17	60.08	55.55	33.44	55.55	55.55	41.81	10.20
	42- 52	55.55	60.54	51.91	28.29	33.91	23.09	47.79	47.79	47.79	41.81	
	53- 59	-5.89	64.59	61.44	69.17	64.59	51.00	69.07	47.79	41.81	3.90	-10.34
10 20	51- 71	64.59	51.00	3.90	9.75	18.34	73.52	9999.00	9999.00	-116.91	-55.06	41.81
	72- 82	78.84	41.81	8.75	13.56	73.52	70.41	9999.00	9999.00	9999.00	9999.00	9999.00
	83- 89	-116.31	119.03	-20.34	-111.74	-184.13	-177.18	-137.30	9999.00	-132.33	-171.04	-124.36
10 20	91-101	-150.60	34.84	-143.58	-90.24	13.56	112.55	-189.80	9999.00	9999.00	18.34	9999.00
	102-112	-87.40	-108.19	-118.31	9999.00	9999.00	17.87	18.34	22.62	9999.00	18.34	9999.00
	113-120	-125.57	104.04	103.61	73.52	73.08	64.14	55.10	9999.00	9999.00	9999.00	9999.00
10 30	2- 12	55.55	121.00	43.19	-0.98	19.30	37.17	52.82	61.89	33.44	52.37	55.55
	13- 23	9999.00	38.57	60.08	23.19	8.75	51.45	41.81	23.57	39.03	61.89	60.08
10 30	24- 29	56.46	55.55	9999.00	37.64	60.08	60.08	65.04	51.00	9999.00	60.08	56.46
	31- 41	51.00	41.81	38.10	37.17	60.54	55.55	33.91	55.55	55.55	41.81	13.56
	42- 52	52.37	60.99	52.37	24.14	37.17	23.57	46.42	41.81	37.17	4.39	-10.84
	53- 59	-5.89	61.44	60.54	65.94	64.59	46.42	69.52	41.81	37.17	4.39	-10.84
10 30	51- 71	60.54	47.33	5.36	9.23	18.34	73.52	9999.00	9999.00	-130.48	-51.87	41.81
	72- 82	82.35	37.64	10.20	15.00	77.95	73.52	9999.00	9999.00	9999.00	9999.00	9999.00
	83- 89	-95.95	121.00	-29.99	-95.96	-189.80	-182.73	-137.30	9999.00	-137.92	-177.87	-95.38
10 30	91-101	-150.60	36.24	-152.13	-84.58	15.00	113.82	-198.39	9999.00	9999.00	18.82	9999.00
	102-112	-62.05	-77.33	-85.14	9999.00	9999.00	17.87	17.87	23.57	9999.00	18.82	9999.00
	113-120	-126.18	104.04	102.76	73.52	73.08	166.57	160.94	9999.00	9999.00	9999.00	9999.00
10 40	2- 12	55.55	121.00	43.19	-0.98	19.77	37.17	52.37	64.59	33.44	55.55	55.55
	13- 23	9999.00	38.57	60.08	24.14	8.75	51.91	41.81	23.09	38.57	65.04	60.08
10 40	24- 29	56.45	55.55	9999.00	37.17	60.54	60.08	65.04	48.25	9999.00	60.08	60.08
	31- 41	51.00	41.81	38.10	37.17	60.08	56.46	33.91	55.55	55.55	41.81	13.56
	42- 52	52.82	61.44	51.91	23.19	37.17	23.57	46.42	41.81	37.17	5.36	-13.33
	53- 59	-5.89	60.99	60.08	65.94	64.59	46.42	65.94	37.17	33.91	5.36	-13.33
10 40	51- 71	60.08	46.42	8.75	9.23	18.34	78.40	9999.00	9999.00	-137.30	-51.34	41.81
	72- 82	82.80	33.91	13.56	18.14	78.84	74.41	9999.00	9999.00	9999.00	9999.00	9999.00
	83- 89	-72.93	121.00	-36.15	-83.46	-190.52	-182.73	-137.30	9999.00	-137.92	-183.43	-65.88
10 40	91-101	-150.60	36.24	-157.08	-78.99	18.82	113.82	-203.55	9999.00	9999.00	18.82	9999.00
	102-112	-35.13	-41.87	-56.67	9999.00	9999.00	17.87	17.87	24.04	9999.00	18.82	9999.00
	113-120	-126.18	104.04	102.76	73.52	73.08	231.61	228.20	9999.00	9999.00	9999.00	9999.00

A30-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 6, SOLAR ON, SPACECRAFT HEATERS ON
 THERMA - DUMMY HEATERS OFF, RIGHT SIDE FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
10	50	2-12	55.55	118.03	43.19	-0.98	19.77	37.17	52.37	62.79	33.91	55.55	55.55				
		13-23	9999.00	37.64	60.54	24.84	8.75	52.37	41.81	23.09	38.57	62.79	60.08				
		24-29	56.92	52.82	9999.00	37.17	60.54	60.08									
10	50	31-41	51.00	39.03	37.64	37.17	60.54	56.46	64.59	51.00	9999.00	60.08	57.82				
		42-52	51.00	64.59	52.37	14.52	37.17	27.82	37.17	55.55	55.55	42.73	13.56				
		53-59	-5.89	60.54	60.08	65.94	61.44	46.42	43.65								
10	50	61-71	60.08	46.42	10.20	8.75	19.30	77.95	65.94	32.51	32.51	6.75	-14.32				
		72-82	84.12	32.51	13.56	19.30	81.92	74.86	9999.00	9999.00	-137.30	-46.59	43.19				
		83-89	-61.51	122.68	-40.83	-77.88	-197.66	-183.43	-136.05								
10	50	91-101	-150.60	37.17	-162.34	-73.48	19.30	116.77	-204.29	9999.00	-138.55	-184.84	-52.40				
		102-112	-21.35	-30.50	-41.87	9999.00	9999.00	18.34	19.30	27.35	9999.00	22.62	9999.00				
		113-120	-124.97	101.04	99.32	73.97	73.08	243.29	243.29	9999.00							

ADOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 7, SOLAR ON, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

10	50	2-12	55.55	118.03	43.19	-0.98	20.25	37.17	52.37	62.79	33.91	55.55	55.55
		13-23	9999.00	37.64	60.54	24.74	8.75	52.37	41.81	23.09	38.57	62.79	60.08
		24-29	56.92	52.82	9999.00	37.17	60.54	60.08					
10	50	31-41	51.00	39.03	37.64	37.17	60.54	56.46	64.59	51.00	9999.00	60.08	57.82
		42-52	51.00	64.59	52.37	14.52	37.17	27.82	37.17	55.55	55.55	42.73	13.56
10	50	53-59	-5.89	60.54	60.08	65.74	61.44	46.42	43.65	32.51	32.51	8.75	-14.32
		51-71	60.08	46.42	10.20	8.75	19.30	77.95	65.94	9999.00	-137.30	-46.59	43.19
		72-82	84.12	32.51	13.56	19.30	81.92	74.86	9999.00	9999.00	9999.00	9999.00	9999.00
		83-89	-61.51	122.68	-40.83	-77.88	-197.66	-183.43	-136.05	9999.00	9999.00	-184.84	-52.40
10	50	91-101	-150.60	37.17	-162.34	-73.48	19.30	116.77	-204.29	27.35	9999.00	-184.84	-52.40
		102-112	-21.35	-30.50	-41.87	9999.00	9999.00	18.34	19.30	27.35	9999.00	22.62	9999.00
		113-120	-124.97	101.04	99.32	73.97	73.08	243.29	243.29	9999.00	9999.00	22.62	9999.00
11	0	2-12	55.55	118.03	43.65	-0.98	20.72	37.17	52.37	64.59	33.91	55.55	55.55
		13-23	9999.00	37.17	60.54	24.04	6.81	55.55	38.57	23.09	38.10	64.59	60.08
		24-29	56.92	55.55	9999.00	37.17	60.08	60.08					
11	0	31-41	51.00	39.03	37.64	37.17	60.54	56.01	62.79	51.00	9999.00	60.08	60.08
		42-52	51.00	64.59	51.91	13.56	37.17	25.46	37.17	55.55	55.55	42.73	13.56
		53-59	-5.89	60.08	60.08	65.04	60.99	42.73	42.73				
		51-71	60.03	46.42	13.56	8.75	19.77	77.95	65.94	29.23	32.51	8.75	-14.82
		72-82	86.74	29.23	13.56	19.30	82.36	75.30	9999.00	9999.00	-95.96	-51.87	41.81
		83-89	-77.88	64.59	27.82	-90.24	-98.27	-92.52	-131.71	9999.00	9999.00	-68.03	-78.99
11	0	91-101	-144.22	23.09	-73.48	-84.58	-12.33	9999.00	-72.93	27.35	9999.00	22.62	9999.00
		102-112	-68.03	-63.13	-74.03	9999.00	9999.00	18.34	19.77	27.35	9999.00	22.62	9999.00
		113-120	-124.35	100.18	99.32	74.41	73.08	253.37	254.49	9999.00	9999.00	22.62	9999.00
11	2	2-12	55.55	121.42	43.65	-0.98	23.09	37.17	52.37	64.59	33.91	55.55	55.55
		13-23	9999.00	38.10	60.54	24.51	8.75	55.55	38.57	20.23	46.08	65.04	60.08
		24-29	56.92	55.55	9999.00	37.17	60.54	60.08					
11	2	31-41	48.71	39.03	37.17	37.17	61.44	56.46	64.59	51.00	9999.00	60.08	60.08
		42-52	60.08	64.59	52.37	18.34	37.17	27.82	37.17	56.01	55.55	42.73	13.56
		53-59	-5.89	60.08	60.08	65.94	60.99	42.73	43.19				
		51-71	60.08	46.42	13.56	8.75	23.09	78.84	65.94	28.76	32.51	8.75	-14.82
		72-82	84.12	28.76	13.56	19.77	82.36	77.95	9999.00	9999.00	19.77	-66.96	27.82
		83-89	-150.60	84.12	101.47	-143.58	60.08	38.18	-129.86	9999.00	9999.00	41.35	-142.95
11	2	91-101	-123.75	56.01	65.94	-106.43	13.56	154.05	82.80	9999.00	86.31	41.35	-142.95
		102-112	-142.95	-132.33	-142.95	9999.00	9999.00	18.82	19.77	27.35	9999.00	22.62	9999.00
		113-120	-124.97	100.18	99.32	73.52	73.08	254.12	257.83	9999.00	9999.00	22.62	9999.00
11	3	2-12	55.55	121.42	43.65	-0.98	23.09	37.17	52.37	64.59	33.91	55.55	55.55
		13-23	9999.00	38.10	60.54	24.51	8.75	55.55	38.57	33.91	55.55	65.04	60.08
		24-29	56.92	55.55	9999.00	37.17	60.54	60.08					
11	3	31-41	48.71	38.57	38.10	37.17	60.99	56.46	64.59	51.00	9999.00	60.08	60.08
		42-52	64.59	64.59	52.37	19.77	37.17	27.82	37.17	55.55	55.55	42.73	13.56
		53-59	-5.89	60.08	60.08	65.94	61.44	43.19	42.73				
		51-71	60.08	46.42	13.56	8.75	23.09	77.95	68.07	29.23	32.51	8.75	-13.32
		72-82	82.35	32.51	13.56	23.09	82.36	78.48	9999.00	9999.00	55.55	-72.93	9999.00
		83-89	-176.49	95.44	116.77	-162.34	79.72	51.91	-129.86	9999.00	98.03	59.63	-171.04
11	3	91-101	-113.52	65.49	86.74	-112.93	13.56	184.87	112.59	9999.00	9999.00	22.62	9999.00
		102-112	-171.04	-163.00	-170.36	9999.00	9999.00	19.30	20.25	27.35	9999.00	22.62	9999.00
		113-120	-124.36	99.75	99.32	74.41	73.08	254.12	258.20	9999.00	9999.00	22.62	9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 7, SOLAR ON, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
11	5	55.55	121.42	43.65	-0.98	23.09	37.17	52.37	64.59	34.38	55.55	55.55	60.08	60.08	60.08	60.08	60.08
		9999.00	38.10	60.54	24.51	8.75	55.55	38.57	37.17	60.08	65.49	65.49	60.08	60.08	60.08	60.08	60.08
		56.92	55.55	9999.00	37.17	60.54	60.08	65.49	51.00	9999.00	55.55	55.55	60.08	60.08	60.08	60.08	60.08
11	5	51.00	38.57	37.64	37.17	60.99	56.46	65.49	64.59	51.00	60.08	60.08	60.08	60.08	60.08	60.08	60.08
		64.59	64.59	52.37	23.09	37.17	27.82	37.17	55.55	55.55	42.73	42.73	42.73	42.73	42.73	42.73	42.73
		5.89	60.08	60.08	65.94	61.44	43.19	42.73	32.51	32.51	5.85	5.85	5.85	5.85	5.85	5.85	5.85
11	5	61-71	60.08	13.56	8.75	23.09	74.86	69.96	9999.00	9999.00	77.88	77.88	77.88	77.88	77.88	77.88	77.88
		82.36	32.98	13.56	20.25	82.36	79.28	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		-190.52	95.44	125.19	-170.36	86.74	55.55	-129.29	32.51	32.51	66.83	66.83	66.83	66.83	66.83	66.83	66.83
11	5	91-101	69.07	100.61	-118.31	13.56	197.81	121.00	9999.00	9999.00	22.62	22.62	22.62	22.62	22.62	22.62	22.62
		-112.33	69.07	100.61	-118.31	13.56	197.81	121.00	9999.00	9999.00	22.62	22.62	22.62	22.62	22.62	22.62	22.62
		-184.84	-177.18	-163.43	9999.00	9999.00	19.38	22.62	27.35	27.35	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		-125.57	99.75	99.32	73.52	73.08	254.12	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
11	7	55.55	121.42	44.12	-0.98	23.09	37.17	52.37	64.59	37.17	55.55	55.55	60.08	60.08	60.08	60.08	60.08
		9999.00	38.10	60.54	24.51	8.75	55.55	38.57	37.17	60.08	65.04	65.04	60.08	60.08	60.08	60.08	60.08
		56.92	55.55	9999.00	37.17	60.99	60.08	64.59	51.00	9999.00	60.08	60.08	60.08	60.08	60.08	60.08	60.08
11	7	48.71	38.57	38.57	37.17	60.99	56.46	64.59	51.00	9999.00	43.19	43.19	43.19	43.19	43.19	43.19	43.19
		65.04	64.59	52.37	24.51	37.17	27.82	37.17	55.55	55.55	5.36	5.36	5.36	5.36	5.36	5.36	5.36
		5.89	60.08	60.08	65.94	61.44	46.48	46.48	33.44	33.44	-70.44	-70.44	-70.44	-70.44	-70.44	-70.44	-70.44
11	7	61-71	60.08	13.56	8.75	20.25	73.97	69.96	9999.00	9999.00	29.70	29.70	29.70	29.70	29.70	29.70	29.70
		78.68	46.42	13.56	19.77	9999.00	82.36	9999.00	9999.00	9999.00	99.32	99.32	99.32	99.32	99.32	99.32	99.32
		-203.55	95.44	127.28	-176.49	86.74	56.01	-124.97	9999.00	9999.00	68.62	68.62	68.62	68.62	68.62	68.62	68.62
11	7	91-101	73.52	109.16	-123.75	10.68	205.58	125.19	9999.00	9999.00	22.62	22.62	22.62	22.62	22.62	22.62	22.62
		-111.74	73.52	109.16	-123.75	10.68	205.58	125.19	9999.00	9999.00	22.62	22.62	22.62	22.62	22.62	22.62	22.62
		-198.39	-184.84	-191.96	9999.00	9999.00	19.38	20.25	27.35	27.35	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		-126.18	99.75	99.32	73.52	73.08	254.12	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
11	8	55.55	121.00	44.12	-0.98	23.09	37.17	52.37	63.69	37.17	55.55	55.55	60.08	60.08	60.08	60.08	60.08
		9999.00	37.17	60.99	24.51	6.33	55.55	38.57	41.81	61.44	65.49	65.49	60.08	60.08	60.08	60.08	60.08
		56.92	52.82	9999.00	37.17	60.99	60.08	64.59	51.00	9999.00	60.08	60.08	60.08	60.08	60.08	60.08	60.08
11	8	51.00	38.57	37.64	37.17	60.99	56.46	64.59	51.00	9999.00	43.19	43.19	43.19	43.19	43.19	43.19	43.19
		66.38	64.59	51.91	27.82	37.17	27.82	37.17	55.55	55.55	5.36	5.36	5.36	5.36	5.36	5.36	5.36
		5.89	60.08	60.08	65.07	61.44	47.33	46.42	37.17	37.17	4.88	4.88	4.88	4.88	4.88	4.88	4.88
11	8	61-71	60.08	13.56	8.75	23.09	73.52	73.52	9999.00	9999.00	86.74	86.74	86.74	86.74	86.74	86.74	86.74
		60.08	45.42	13.56	19.77	82.36	82.36	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		77.95	41.81	13.56	184.13	88.49	56.92	-124.36	37.17	37.17	73.08	73.08	73.08	73.08	73.08	73.08	73.08
11	8	91-101	73.52	113.82	-123.75	13.56	209.45	126.45	9999.00	9999.00	103.61	103.61	103.61	103.61	103.61	103.61	103.61
		-107.68	73.52	113.82	-123.75	13.56	209.45	126.45	9999.00	9999.00	103.61	103.61	103.61	103.61	103.61	103.61	103.61
		-204.29	-191.24	-197.66	9999.00	9999.00	19.38	22.62	27.35	27.35	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		-126.18	99.75	99.32	73.97	73.08	254.12	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
11	10	55.55	121.00	46.42	-0.98	23.09	37.17	52.37	64.59	34.38	55.55	55.55	60.08	60.08	60.08	60.08	60.08
		9999.00	38.57	60.99	24.51	8.75	55.55	38.57	42.27	64.59	65.04	65.04	60.08	60.08	60.08	60.08	60.08
		56.92	55.55	9999.00	37.17	60.99	60.08	64.59	51.00	9999.00	60.08	60.08	60.08	60.08	60.08	60.08	60.08
11	10	48.71	38.57	37.17	37.17	60.99	56.46	64.59	51.00	9999.00	43.19	43.19	43.19	43.19	43.19	43.19	43.19
		69.07	64.59	51.91	32.51	37.17	27.82	37.17	55.55	55.55	5.36	5.36	5.36	5.36	5.36	5.36	5.36
		5.89	60.08	60.08	69.07	60.99	47.33	46.42	37.17	37.17	4.39	4.39	4.39	4.39	4.39	4.39	4.39
11	10	61-71	60.08	13.56	8.75	23.09	73.52	73.52	9999.00	9999.00	91.10	91.10	91.10	91.10	91.10	91.10	91.10
		60.08	46.42	13.56	19.77	83.24	82.36	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		77.95	46.42	13.56	19.77	83.24	82.36	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
11	10	91-101	73.52	116.77	-124.36	13.56	213.30	129.37	9999.00	9999.00	102.76	102.76	102.76	102.76	102.76	102.76	102.76
		-187.60	73.52	116.77	-124.36	13.56	213.30	129.37	9999.00	9999.00	102.76	102.76	102.76	102.76	102.76	102.76	102.76
		-206.53	-191.96	-199.13	9999.00	9999.00	19.38	22.62	27.35	27.35	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		-124.97	99.75	99.32	74.41	73.08	254.12	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00

Apollo 13: EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 7, SOLAR ON, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME	CHANNELS	55.55	121.00	44.12	-0.98	23.09	37.17	52.82	64.59	37.17	55.55	37.17	55.55
11 12	2- 12	9999.00	38.57	60.99	24.99	8.75	55.55	38.57	43.19	64.59	65.04	64.59	55.55
	13- 23	57.37	55.55	9999.00	37.17	60.99	60.08						60.08
11 12	24- 29	51.00	38.57	38.57	37.17	60.99	56.46	64.59	51.00	9999.00	60.08	9999.00	58.28
	31- 41	69.07	64.59	52.37	32.51	37.17	27.82	37.17	56.01	55.55	43.19	55.55	13.56
11 12	42- 52	-8.85	60.54	62.37	69.07	61.44	47.79	47.33					
	53- 59	60.08	46.88	13.56	51.85	23.09	73.52	74.41	42.27	32.51	3.90	32.51	-14.82
	72- 82	77.93	47.79	13.56	19.77	84.12	82.08	-124.97	9999.00	91.54	-83.46	91.54	30.17
	93-- 89	-212.54	91.97	138.49	-189.09	91.10	60.08		9999.00				
11 12	91-101	-107.60	74.41	121.00	-125.57	13.56	217.14	129.37	9999.00	103.61	72.63	103.61	-206.53
	102-112	-206.53	-199.13	-199.13	9999.00	9999.00	19.30	22.62	27.35	9999.00	22.62	9999.00	9999.00
	113-120	-126.18	99.75	99.32	73.52	73.08	253.74	258.20	9999.00				
11 14	2- 12	55.55	121.42	44.58	-0.98	23.09	37.17	55.55	64.59	37.17	55.55	37.17	55.55
	13- 23	9999.00	38.10	60.99	27.82	8.75	55.55	38.57	46.42	64.59	65.49	64.59	60.08
	24- 29	57.37	55.55	9999.00	37.17	60.99	60.08						
11 14	31- 41	51.00	38.57	37.17	37.17	60.99	56.46	64.59	51.00	9999.00	60.08	9999.00	60.08
	42- 52	69.07	64.59	52.37	33.91	37.17	27.82	37.17	56.01	55.55	43.19	55.55	13.56
	53- 59	-5.89	60.99	64.59	69.07	61.44	51.00	47.79					
11 14	51- 71	60.08	47.79	13.56	51.36	19.77	73.52	74.41	46.42	32.51	3.90	32.51	-14.32
	72- 82	74.86	51.00	13.56	19.30	86.74	82.36	9999.00	9999.00	95.44	-84.02	95.44	32.51
	93- 89	-213.30	91.10	141.79	-191.24	91.10	60.08	-124.97					
11 14	91-101	-107.60	73.52	121.00	-124.97	13.56	220.20	129.37	9999.00	103.61	72.19	103.61	-206.53
	102-112	-213.30	-199.13	-205.04	9999.00	9999.00	19.30	22.62	27.35	9999.00	22.62	9999.00	9999.00
	113-120	-126.18	99.75	99.32	73.97	73.08	253.74	258.20	9999.00				
11 16	2- 12	55.55	121.42	46.42	-0.98	23.09	37.17	55.55	64.59	37.17	55.55	37.17	55.55
	13- 23	9999.00	38.57	60.99	24.99	8.75	55.55	38.57	46.42	65.04	64.59	65.04	60.08
	24- 29	57.37	55.55	9999.00	37.17	60.99	60.08						
11 16	31- 41	51.00	41.81	37.17	37.17	60.99	56.46	64.59	51.00	9999.00	60.08	9999.00	60.08
	42- 52	69.96	64.59	51.91	37.17	37.17	27.82	37.17	55.55	55.55	43.19	55.55	13.56
	53- 59	-9.35	60.99	64.59	69.07	61.44	51.00	51.00					
11 16	51- 71	60.08	51.00	13.56	51.36	19.77	73.52	74.41	46.88	32.51	3.90	32.51	-10.84
	72- 82	73.97	52.37	10.20	18.34	86.74	82.36	9999.00	9999.00	95.44	-84.02	95.44	32.51
	93- 89	-211.78	91.10	142.61	-190.52	91.10	60.08	-124.97					
11 16	91-101	-107.60	74.86	121.00	-124.97	13.56	220.96	130.20	9999.00	103.61	77.51	103.61	-211.78
	102-112	-214.06	-199.13	-206.53	9999.00	9999.00	19.30	20.72	27.35	9999.00	21.67	9999.00	9999.00
	113-120	-126.18	99.75	99.32	73.52	68.62	253.74	260.42	9999.00				
11 18	2- 12	55.55	121.00	46.42	-0.98	23.09	37.17	55.55	64.59	37.17	55.55	37.17	55.55
	13- 23	9999.00	38.10	60.54	27.82	8.75	55.55	38.57	46.42	65.49	64.59	65.49	60.08
	24- 29	60.08	53.55	9999.00	37.17	60.99	60.08						
11 18	31- 41	51.00	38.57	38.57	37.17	60.99	56.46	64.59	51.00	9999.00	60.08	9999.00	60.08
	42- 52	70.41	64.59	52.37	37.17	37.17	27.82	37.17	55.55	55.55	43.19	55.55	13.56
	53- 59	-9.35	60.99	64.59	69.07	61.44	51.91	51.00					
11 18	51- 71	60.99	51.00	10.68	51.36	19.77	70.85	75.30	51.00	32.98	3.90	32.98	-10.84
	72- 82	73.52	55.55	18.82	18.82	86.74	83.24	9999.00	9999.00	96.74	-84.02	96.74	32.51
	93- 89	-213.30	91.10	145.89	-191.24	91.10	60.08	-124.36					
11 18	91-101	-106.43	75.30	122.26	-130.48	13.56	223.63	130.62	9999.00	104.47	77.51	104.47	-212.54
	102-112	-214.06	-204.29	-206.53	9999.00	9999.00	19.30	22.62	27.35	9999.00	22.62	9999.00	9999.00
	113-120	-126.18	99.75	99.32	73.97	73.08	253.37	258.20	9999.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (11-8-65)
 TEST POINT NO. 7, SOLAR ON, CONTACT WITH HOT SPACECRAFT
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT												
11	20	55.55	121.42	45.04	-0.98	23.09	37.17	55.55	64.59	34.84	55.55	55.55	55.55	
		9999.00	38.57	60.99	27.82	8.75	55.55	47.33	47.33	66.38	64.59	64.59	64.59	
11	20	49.17	38.57	38.10	37.17	60.99	60.08	51.00	9999.00	9999.00	60.08	60.08	56.73	
		73.52	64.59	55.55	38.10	37.64	56.46	55.55	55.55	55.55	43.65	43.65	13.56	
11	20	61.44	61.44	10.20	5.36	64.59	52.37	51.45	9999.00	33.91	3.90	3.90	-10.84	
		73.52	56.46	10.20	18.82	19.77	70.09	9999.00	9999.00	99.78	-84.02	-84.02	32.51	
11	20	213.30	91.10	122.26	-190.52	67.18	82.80	9999.00	9999.00	103.61	77.51	77.51	-213.30	
		-105.84	75.74	125.19	-130.48	13.56	224.77	133.53	27.35	9999.00	22.62	22.62	9999.00	
11	20	214.06	-205.04	-206.53	9999.00	9999.00	19.77	22.62	27.35	9999.00	22.62	22.62	9999.00	
		-126.19	99.75	99.32	73.52	73.08	253.00	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	
11	30	55.55	121.84	46.42	-0.49	23.09	37.17	64.59	64.59	37.17	55.55	55.55	59.55	
		9999.00	42.27	60.54	27.82	8.75	55.55	56.46	56.46	69.07	65.04	65.04	68.99	
11	30	51.43	39.03	38.57	37.17	60.99	56.46	51.00	9999.00	9999.00	60.08	60.08	58.73	
		73.97	65.04	55.55	46.42	38.10	27.82	56.46	56.46	56.92	46.42	46.42	13.56	
11	30	65.04	65.04	9.23	8.75	19.77	69.52	60.08	9999.00	38.18	3.90	3.90	-10.34	
		70.85	64.59	9.71	18.82	91.10	83.68	9999.00	9999.00	184.84	-84.58	-84.58	33.44	
11	30	219.42	91.10	154.05	-198.39	93.27	60.08	9999.00	9999.00	107.88	81.92	81.92	-214.06	
		-101.75	77.95	129.37	-130.48	13.56	224.77	134.77	27.35	9999.00	22.62	22.62	9999.00	
11	30	219.42	-206.53	-206.53	9999.00	9999.00	19.38	22.62	27.35	9999.00	22.62	22.62	9999.00	
		-126.19	99.75	99.32	73.97	73.08	250.39	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	
11	40	56.01	121.84	47.33	0.49	23.09	37.17	64.59	64.59	37.17	55.55	55.55	56.01	
		9999.00	42.27	60.99	27.82	8.75	55.55	60.54	60.54	73.52	65.49	65.49	60.54	
11	40	50.09	42.27	41.81	37.17	61.44	56.92	51.00	9999.00	9999.00	60.08	60.08	60.08	
		77.95	65.04	55.55	56.92	41.81	27.82	60.08	60.08	60.08	46.42	46.42	13.56	
11	40	65.49	65.49	8.75	8.75	19.30	69.07	69.07	9999.00	42.73	3.90	3.90	-8.85	
		69.96	69.07	9.23	18.34	91.10	82.80	9999.00	9999.00	108.31	-88.53	-88.53	37.17	
11	40	220.97	91.10	158.11	-198.39	95.44	60.54	9999.00	9999.00	107.88	81.92	81.92	-214.06	
		-101.75	77.95	131.09	-131.09	15.00	224.77	137.67	27.35	9999.00	22.62	22.62	9999.00	
11	40	220.97	-206.53	-211.78	9999.00	9999.00	19.38	22.62	27.35	9999.00	22.62	22.62	9999.00	
		-125.57	99.75	99.32	73.97	74.41	250.39	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	
11	50	56.92	121.84	46.71	3.90	23.09	37.17	64.59	64.59	37.17	55.55	55.55	56.46	
		9999.00	42.73	60.99	27.82	8.75	55.55	64.59	64.59	73.52	65.04	65.04	68.99	
11	50	51.00	41.91	41.81	37.54	64.59	60.54	51.00	9999.00	9999.00	60.08	60.08	60.08	
		78.40	64.59	55.55	64.59	41.81	27.82	60.08	60.08	60.08	46.42	46.42	13.56	
11	50	65.94	65.04	5.35	8.75	18.34	69.52	73.52	9999.00	46.42	0.98	0.98	-5.89	
		69.07	60.08	8.75	19.34	91.10	79.28	82.36	9999.00	99.75	-89.10	-89.10	42.73	
11	50	220.97	86.74	157.30	-198.39	91.10	55.55	9999.00	9999.00	103.61	77.07	77.07	-214.06	
		-101.75	73.52	129.37	-131.09	23.09	220.96	133.53	27.35	9999.00	22.62	22.62	9999.00	
11	50	221.74	-206.53	-212.54	9999.00	9999.00	18.82	19.77	27.35	9999.00	22.62	22.62	9999.00	
		-126.19	99.75	99.32	74.41	76.63	250.39	258.20	9999.00	9999.00	9999.00	9999.00	9999.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-A, SECOND TEST DAY (1-8-65)
 TEST POINT NO. 7, SOLAR ON, CONTACT WITH HOT SPACECRAFT
 THERYA. DUNNY HEATERS OFF, FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																						
12	0	60.08	121.00	51.00	3.90	23.09	37.17	60.08	65.04	37.17	55.55	56.46	9999.00	42.73	61.44	27.92	5.36	55.55	41.81	64.59	64.59	60.54	60.99	
12	0	60.54	56.46	9999.00	41.91	64.59	60.54	65.04	51.00	9999.00	60.54	60.08	60.54	41.81	41.81	38.10	64.59	60.08	60.08	64.59	64.59	60.54	60.08	60.99
12	0	51.45	41.81	41.81	69.07	41.81	27.82	37.17	60.08	64.59	60.54	13.56	79.72	64.59	60.08	73.52	65.49	60.54	60.08	64.59	64.59	60.54	60.08	60.99
12	0	-5.89	65.94	69.96	73.52	65.49	60.54	60.08	77.95	51.00	3.90	-5.89	69.07	60.08	4.39	13.56	19.30	69.07	60.08	64.59	64.59	60.54	60.08	60.99
12	0	69.07	70.41	9.23	18.34	88.05	77.95	9999.00	9999.00	91.10	-09.10	-5.89	69.07	60.08	9.23	18.34	88.05	77.95	60.08	64.59	64.59	60.54	60.08	60.99
12	0	-220.97	67.73	154.05	199.39	88.93	51.00	-130.48	9999.00	91.10	-09.10	-5.89	69.07	60.08	9.23	18.34	88.05	77.95	60.08	64.59	64.59	60.54	60.08	60.99
12	0	-94.23	69.96	126.66	137.92	32.51	182.11	137.67	9999.00	103.61	71.74	-228.97	69.07	60.08	9.23	18.34	88.05	77.95	60.08	64.59	64.59	60.54	60.08	60.99
12	0	-221.74	-211.78	-214.06	9999.00	9999.00	18.34	19.30	24.51	9999.00	22.62	9999.00	69.07	60.08	9.23	18.34	88.05	77.95	60.08	64.59	64.59	60.54	60.08	60.99
12	0	-125.57	100.18	99.32	75.30	77.07	250.39	256.20	9999.00	9999.00	9999.00	9999.00	69.07	60.08	9.23	18.34	88.05	77.95	60.08	64.59	64.59	60.54	60.08	60.99

EXPERIMENT II-b
LUNAR SIMULATION
NO TEARS IN SUIT

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. NO. 11-3 (11-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT									
23	58	9999.00	83.58	81.92	84.56	85.43	88.49	84.58	87.62	85.87	65.49
		87.62	85.49	75.50	86.51	91.97	75.74	76.63	73.97	73.52	9999.00
23	58	9999.00	74.86	80.50	81.04	80.60	80.60	79.72	82.36	9999.00	88.49
		77.07	77.51	83.68	212.14	218.28	75.74	81.48	79.28	79.28	88.49
23	58	9999.00	83.24	77.51	83.24	84.56	85.43	100.10	92.44	84.05	92.41
		88.49	83.05	87.23	88.49	89.50	88.49	9999.00	88.49	84.59	76.63
23	58	9999.00	85.58	89.49	85.80	85.43	76.19	87.62	86.74	86.51	90.67
		92.41	80.50	88.05	9999.00	9999.00	178.51	91.10	90.67	90.67	88.93
23	58	9999.00	74.41	19.77	9999.00	188.02	178.51	87.62	86.74	86.51	90.67
		94.14	52.37	60.99	9999.00	9999.00	88.05	91.10	90.67	90.67	88.93
0	0	9999.00	89.30	85.43	71.74	149.98	149.98	84.56	87.62	85.87	67.73
		87.62	83.58	82.55	84.56	85.43	88.05	84.56	87.62	85.87	67.73
0	0	9999.00	83.24	83.24	81.04	80.60	75.74	76.63	80.60	80.60	9999.00
		77.07	77.07	83.68	81.04	80.60	75.74	76.63	80.60	80.60	9999.00
0	0	9999.00	83.05	87.62	88.49	89.50	88.49	88.49	88.49	88.49	88.49
		88.49	83.05	87.62	88.49	89.50	88.49	88.49	88.49	88.49	88.49
0	0	9999.00	84.12	79.72	84.56	85.43	103.19	97.60	103.58	84.56	95.44
		92.41	80.50	86.49	84.56	85.43	18.52	97.60	103.58	84.56	95.44
0	0	9999.00	91.97	85.68	9999.00	196.64	99.99.00	90.23	88.49	88.49	97.17
		111.71	69.96	91.97	9999.00	114.66	114.66	103.47	103.61	103.61	101.47
0	0	9999.00	92.44	96.30	89.80	149.98	149.98	84.56	87.62	85.87	67.73
		95.87	104.34	85.43	89.80	149.98	149.98	84.56	87.62	85.87	67.73
0	2	9999.00	85.58	82.80	84.56	85.43	88.05	84.56	87.62	85.87	67.73
		87.62	83.49	75.74	86.51	91.97	77.92	77.92	97.15	99.52	9999.00
0	2	9999.00	101.04	80.60	81.04	80.60	80.60	79.72	9999.00	209.06	88.05
		77.07	77.07	83.68	225.16	230.35	11.90	81.48	84.56	81.04	88.49
0	2	9999.00	73.40	82.80	83.68	84.56	88.49	106.10	97.75	88.49	92.41
		84.12	83.05	87.62	77.77	83.68	88.49	27.82	116.35	91.54	101.04
0	2	9999.00	84.56	79.72	89.49	85.87	85.43	92.84	91.54	90.67	100.61
		93.71	80.50	88.49	9999.00	9999.00	85.87	108.51	107.46	107.46	104.90
0	2	9999.00	93.46	90.23	9999.00	203.26	121.00	84.56	87.62	85.87	67.73
		117.19	75.30	97.17	86.74	9999.00	93.27	84.56	87.62	85.87	67.73
0	2	9999.00	95.03	99.52	102.33	107.46	130.01	84.56	87.62	85.87	67.73
		98.45	107.88	85.43	95.01	149.98	149.98	84.56	87.62	85.87	67.73
0	4	9999.00	83.58	82.80	84.56	85.43	88.05	84.56	87.62	85.87	67.73
		87.62	83.49	75.74	86.51	91.97	77.92	77.92	97.15	99.52	9999.00
0	4	9999.00	102.76	80.60	81.04	80.60	80.60	79.72	9999.00	209.06	88.05
		76.63	75.53	83.68	231.23	237.27	13.61	81.48	84.56	81.04	88.49
0	4	9999.00	77.95	82.80	83.68	84.56	88.49	109.10	102.76	88.49	93.27
		88.93	83.49	87.62	75.53	83.68	88.49	29.23	117.19	91.97	101.47
0	4	9999.00	84.99	80.15	83.68	84.56	88.49	84.56	87.62	85.87	67.73
		94.57	81.04	88.49	9999.00	9999.00	85.87	84.56	87.62	85.87	67.73
0	4	9999.00	100.18	91.10	9999.00	209.06	125.19	84.56	87.62	85.87	67.73
		119.29	75.74	97.60	87.62	9999.00	95.87	84.56	87.62	85.87	67.73
0	4	9999.00	102.33	101.47	104.04	108.73	111.29	84.56	87.62	85.87	67.73
		100.61	107.88	85.43	95.01	149.98	149.98	84.56	87.62	85.87	67.73

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. NO. 11-3 (11-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL JUMMY HEATERS OFF

TIME CHANNELS	TEMPERATURES - FAHRENHEIT										
0 6	9999.00	83.56	82.80	82.36	84.99	85.43	80.05	84.26	87.18	85.67	91.10
13-23	87.62	85.49	75.74	75.19	86.74	91.54	78.84	78.84	102.33	101.47	9999.00
0 6	9999.00	103.51	80.60	85.50	81.04	80.60	104.04	79.72	9999.00	220.96	88.05
11-41	76.63	75.53	83.68	83.24	236.90	242.54	85.87	81.48	87.18	82.80	88.49
42-52	84.12	77.39	82.80	75.63	83.68	84.56	88.49				
0 6	88.93	83.49	87.62	90.47	88.93	90.23	88.49				
51-71	67.29	82.43	80.60	83.23	90.67	86.74	85.43	112.13	105.32	88.93	93.27
72-82	95.67	81.48	88.93	83.23	9999.00	9999.00	100.18	29.70	117.19	91.54	101.47
83-89	102.75	100.51	91.10	59.33	9999.00	214.07	127.28	97.17	95.87	94.57	104.04
0 6	120.13	72.30	97.60	91.30	87.18	9999.00	97.60	110.86	109.58	110.01	107.46
112-112	104.04	101.90	103.19	111.28	105.32	109.58	112.13	0.00			
113-120	102.33	110.01	85.43	90.23	56.30	149.98	149.98				
0 8	9999.00	83.24	83.24	81.32	84.56	84.99	88.05	84.56	87.62	85.87	91.10
13-23	87.62	83.05	75.74	75.19	86.74	91.54	78.84	79.28	101.90	100.61	9999.00
24-29	9999.00	102.33	80.60	80.60	51.04	81.04					
0 6	9999.00	75.53	83.64	83.24	235.91	245.91	103.19	79.72	9999.00	225.16	88.05
42-52	83.68	77.39	82.80	75.19	83.24	84.56	85.87	81.48	88.93	84.12	88.49
53-59	89.35	83.23	87.62	91.10	88.93	90.23	88.93				
0 8	66.83	85.43	80.60	83.26	91.54	87.18	85.43	115.07	107.88	89.36	94.14
72-82	97.17	81.48	88.93	83.23	9999.00	9999.00	100.61	29.23	9999.00	91.10	101.04
83-89	102.75	100.51	91.10	59.33	9999.00	217.90	129.37				
0 8	120.13	72.30	96.74	91.30	86.74	9999.00	99.75	100.61	97.60	96.30	105.75
112-112	105.32	103.51	104.47	112.55	106.66	110.43	112.97	113.40	116.43	110.86	105.31
113-120	104.04	113.56	85.43	90.23	77.17	149.98	149.98	0.00			
0 10	9999.00	83.24	83.64	81.32	84.99	84.99	88.05	84.56	87.18	85.87	91.10
13-23	87.62	83.99	75.74	75.19	86.31	91.97	79.25	79.28	101.90	100.61	9999.00
24-29	9999.00	102.76	81.04	83.60	81.04	81.04					
0 10	76.19	75.19	83.24	83.24	241.74	247.41	103.61	79.72	9999.00	9999.00	88.05
42-52	84.12	78.40	82.35	75.19	83.64	84.56	85.87	81.48	90.23	85.43	88.49
53-59	89.60	83.23	87.62	91.10	89.35	90.67	88.93				
0 10	66.83	87.18	80.60	83.26	91.54	87.18	85.87	117.61	116.01	89.80	94.57
72-82	98.69	82.36	89.35	83.76	9999.00	9999.00	101.90	29.70	117.61	92.41	101.90
83-89	104.04	101.90	92.41	59.33	9999.00	220.20	130.62				
0 10	122.25	72.74	96.03	92.61	86.05	9999.00	100.18	101.47	99.32	96.03	107.46
112-112	107.45	102.32	105.72	113.24	108.31	112.13	114.24	112.97	117.13	112.55	109.58
113-120	105.75	112.35	9999.00	90.23	98.46	149.98	149.98	0.00			
0 12	9999.00	83.24	84.56	82.36	84.59	85.43	86.05	84.56	87.18	85.43	93.27
13-23	87.62	83.49	76.19	75.19	86.74	91.54	79.25	79.72	104.04	102.76	9999.00
24-29	9999.00	104.90	81.04	81.04	81.04	81.48					
0 12	76.19	75.19	83.64	83.24	9999.00	247.78	105.32	80.16	9999.00	228.96	88.05
42-52	84.12	78.40	82.80	75.19	83.64	84.56	85.87	81.48	91.97	86.74	88.93
53-59	89.60	83.26	87.62	91.10	89.80	91.10	88.93				
0 12	66.83	83.49	81.04	83.26	91.97	87.62	85.87	120.13	112.55	89.80	95.01
72-82	100.13	82.36	89.80	83.26	9999.00	9999.00	104.04	30.63	118.87	93.71	103.19
83-89	105.75	103.51	93.71	48.42	9999.00	222.11	132.70				
0 12	123.10	75.53	98.45	94.44	89.80	9999.00	103.19	102.33	101.04	99.75	109.16
112-112	108.73	107.03	107.45	112.93	104.58	113.40	115.51	114.24	112.97	113.40	110.86
113-120	107.03	113.40	85.43	90.23	97.75	149.98	149.98	0.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-2 (11-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL TUMMY HEATERS OFF

TIME CHANNELS

TEMPERATURES - FAHRENHEIT

0	14	2-12	82.80	84.99	82.60	84.99	84.99	86.05	84.56	87.62	85.43	93.71
		13-23	88.49	76.19	75.63	86.74	91.54	79.28	79.72	104.47	103.19	9999.00
		24-29	9999.00	81.04	81.34	81.04	81.48					
0	14	31-41	75.74	83.24	83.24	242.16	247.03	115.75	80.16	9999.00	229.33	88.05
		42-52	84.12	82.80	75.74	83.68	84.99	86.51	81.48	95.27	87.62	88.49
		53-59	90.23	87.62	91.34	89.80	90.67	88.53				
		60-66	66.34	81.04	95.23	92.41	86.05	104.47	122.26	114.24	90.23	95.44
		67-72	101.47	49.60	89.70	9999.00	9999.00	104.47	30.53	118.87	93.71	102.76
		73-79	105.75	94.14	59.76	9999.00	222.87	133.53	104.04	102.76	101.47	110.01
		80-86	123.52	99.32	94.14	89.80	9999.00	104.47	104.04	102.76	101.47	110.01
		87-93	110.43	108.73	116.77	110.66	113.82	116.35	115.09	113.82	114.24	111.70
		94-100	108.31	84.99	93.47	99.75	149.98	149.98	0.00			
		101-107	114.24									
		108-114										
		115-120										
0	16	2-12	82.80	85.43	82.60	84.99	84.99	86.05	84.56	87.18	85.43	94.57
		13-23	85.49	76.63	75.63	86.74	91.10	79.28	79.72	104.90	104.04	9999.00
		24-29	9999.00	81.04	81.34	81.04	81.92					
0	16	31-41	75.74	83.24	83.24	241.51	246.28	116.18	80.16	9999.00	229.33	88.05
		42-52	83.68	82.56	75.74	83.68	84.99	86.74	81.04	95.01	88.93	88.93
		53-59	90.23	89.80	91.34	90.23	91.10	89.56				
		60-66	66.34	81.48	90.23	92.84	88.49	85.87	124.55	116.35	90.67	95.87
		67-72	102.75	90.23	90.23	9999.00	9999.00	105.32	31.10	119.29	94.14	103.19
		73-79	106.60	94.57	47.62	9999.00	222.87	134.77				
		80-86	123.52	99.32	95.11	90.23	9999.00	115.75	105.32	104.04	102.76	111.28
		87-93	111.70	109.16	114.24	114.24	114.24	116.77	115.09	114.24	114.66	112.13
		94-100	109.53	110.01	114.24	114.24	149.98	149.98	0.00			
		101-107										
		108-114										
		115-120										
0	18	2-12	82.80	86.51	82.60	84.99	84.99	87.62	84.56	87.18	85.43	94.57
		13-23	85.49	76.63	75.63	87.18	91.97	79.72	79.72	105.32	104.04	9999.00
		24-29	9999.00	81.48	81.34	81.04	81.92					
0	18	31-41	75.74	83.24	83.24	240.28	244.79	116.18	80.16	9999.00	228.58	87.62
		42-52	83.68	82.56	75.74	83.68	84.99	86.51	81.04	96.50	90.23	88.93
		53-59	90.23	89.80	91.34	90.23	91.54	89.56				
		60-66	65.94	81.48	90.23	92.84	88.93	85.87	126.03	116.03	91.10	95.87
		67-72	104.04	90.23	90.23	9999.00	9999.00	105.32	31.10	119.29	94.57	103.19
		73-79	106.60	94.57	59.76	9999.00	222.49	135.60				
		80-86	123.52	98.89	92.44	90.23	9999.00	107.03	106.18	104.90	104.04	112.13
		87-93	112.55	110.45	114.24	114.24	115.09	117.61	115.93	115.09	115.09	112.55
		94-100	110.85	112.09	91.10	100.61	149.98	149.98	0.00			
		101-107										
		108-114										
		115-120										
0	20	2-12	82.80	87.18	82.60	84.99	84.99	87.62	84.56	87.18	85.43	95.44
		13-23	85.49	76.63	77.07	87.18	91.97	79.72	79.72	105.75	104.47	9999.00
		24-29	9999.00	81.48	81.48	81.04	82.56					
0	20	31-41	75.74	83.24	82.80	259.16	242.91	117.03	80.16	9999.00	227.82	87.62
		42-52	84.12	82.56	75.74	83.68	85.43	86.51	81.04	97.60	91.10	88.93
		53-59	90.23	89.80	91.34	90.23	91.54	89.56				
		60-66	66.34	81.48	90.23	93.27	89.36	85.87	127.28	119.29	91.10	95.87
		67-72	104.90	90.23	90.23	9999.00	9999.00	105.75	31.10	119.29	95.01	103.19
		73-79	107.45	95.44	59.76	9999.00	221.72	136.43				
		80-86	123.52	99.32	95.11	90.23	9999.00	117.45	107.03	106.18	104.90	113.40
		87-93	113.40	111.70	114.24	114.24	115.09	118.03	116.35	115.51	115.93	113.40
		94-100	111.70	112.09	91.10	101.04	149.98	149.98	0.00			
		101-107										
		108-114										
		115-120										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS-3-3414, EXP. NO. 11-9 (1-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL JUMMY HEATERS OFF

TIME CHANNELS	TEMPERATURES - FAHRENHEIT									
0 30	2- 12	89.80	82.80	84.99	84.56	87.62	84.76	86.74	84.99	92.84
	13- 23	77.95	77.95	87.18	91.54	79.28	79.72	104.04	101.90	9999.00
0 30	24- 29	82.35	81.92	81.48	82.80					
	31- 41	82.80	83.24	235.39	239.53	104.47	81.04	9999.00	224.39	87.62
	42- 52	82.35	74.41	83.68	86.31	87.18	81.04	103.19	96.74	89.36
0 30	53- 59	88.05	92.84	90.67	92.41	90.23				
	01- 11	82.35	91.10	93.27	91.10	86.31	131.49	124.35	91.10	96.74
	12- 22	91.10	91.10	9999.00	9999.00	104.90	29.23	115.51	92.41	97.60
0 30	23- 33	92.84	57.64	9999.00	219.43	136.01				
	34- 44	92.84	53.71	88.49	9999.00	112.13	111.28	110.01	108.31	115.51
	45- 55	113.82	121.00	115.93	115.09	117.61	116.35	115.51	115.93	113.82
	56- 66	84.99	91.54	99.75	149.98	149.98	0.00			
0 40	2- 12	93.27	83.48	84.99	84.56	87.62	84.99	86.74	84.56	95.44
	13- 23	79.28	79.28	88.05	91.97	79.72	79.72	106.18	104.47	9999.00
0 40	24- 29	82.80	82.36	81.45	83.24					
	31- 41	82.80	82.80	239.51	244.79	106.60	81.04	9999.00	227.82	87.18
	42- 52	81.44	75.77	83.68	87.18	86.49	81.04	108.31	101.90	89.36
0 40	53- 59	88.05	92.84	91.10	92.84	90.67				
	01- 11	82.80	91.10	93.71	93.27	86.74	135.18	128.53	91.10	97.60
	12- 22	91.10	91.10	9999.00	9999.00	107.03	30.63	118.03	95.44	99.75
0 40	23- 33	95.44	39.49	9999.00	222.87	137.67				
	34- 44	95.44	95.44	90.23	9999.00	115.09	114.24	113.40	112.55	121.00
	45- 55	117.61	124.45	119.71	114.24	120.58	119.29	118.87	119.29	116.77
0 50	56- 66	84.56	92.41	101.90	149.98	149.98	0.00			
0 50	2- 12	95.44	84.12	85.43	84.56	87.62	85.43	86.74	84.56	94.57
	13- 23	80.60	80.60	86.49	92.41	79.72	80.16	105.32	104.04	9999.00
0 50	24- 29	83.24	82.80	82.36	83.68					
	31- 41	92.80	82.46	247.41	252.26	105.75	81.48	9999.00	234.26	87.62
	42- 52	81.04	73.52	84.12	88.05	89.36	81.48	112.55	105.75	89.80
0 50	53- 59	88.49	93.27	91.97	93.27	91.10				
	01- 11	83.68	91.74	94.14	95.44	87.18	139.32	132.28	91.10	98.46
	12- 22	91.10	91.10	9999.00	9999.00	106.60	30.17	117.19	94.14	98.89
0 50	23- 33	94.57	39.76	9999.00	228.20	137.67				
	34- 44	94.57	95.47	90.23	9999.00	116.77	116.35	115.51	114.66	121.00
	45- 55	119.29	125.15	121.42	119.29	121.64	120.56	120.13	120.13	118.45
1 0	56- 66	84.56	92.84	101.04	149.98	149.98	0.00			
1 0	2- 12	97.17	84.56	85.87	84.56	87.62	85.87	86.74	84.56	95.44
	13- 23	82.35	82.80	89.36	92.84	80.16	60.16	105.75	104.47	9999.00
1 0	24- 29	83.68	83.68	82.36	84.12					
	31- 41	82.80	82.80	254.49	259.31	106.18	82.36	9999.00	240.66	87.62
	42- 52	81.04	73.52	84.56	88.93	90.23	81.48	116.77	109.58	90.23
1 0	53- 59	88.93	93.71	92.41	93.27	91.10				
	01- 11	83.68	91.54	94.14	96.30	86.74	143.84	136.43	91.10	98.89
	12- 22	91.10	91.10	9999.00	9999.00	107.03	30.17	117.19	94.14	99.75
1 0	23- 33	95.44	39.76	9999.00	234.63	138.08				
	34- 44	95.44	95.44	84.80	9999.00	119.29	118.45	117.61	116.77	123.10
	45- 55	121.00	125.15	123.52	121.00	123.10	122.68	121.00	121.64	119.71
1 0	56- 66	84.56	92.41	101.47	149.98	149.98	0.00			

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. II-3 (11-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL JUMMY HEATEKS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT												
1	20	9999.00	81.04	100.13	85.47	86.74	84.12	87.62	86.31	86.74	84.12	86.74	84.12	86.30
	13-23	87.13	88.93	85.43	85.43	91.10	93.71	80.16	80.16	106.60	104.90	106.60	96.30	
	24-29	9999.00	108.31	84.56	84.12	82.80	84.99						9999.00	
1	20	76.63	75.63	82.80	82.80	258.57	264.11	107.03	82.60	9999.00	247.03	87.62	87.62	
	31-41	83.24	78.40	80.60	73.52	84.99	91.10	91.10	82.36	125.19	117.61	91.10	91.10	
	42-52	92.64	91.97	89.35	94.14	92.64	94.14	91.97						
1	20	65.94	105.32	84.56	91.97	95.44	98.46	87.18	152.43	144.25	91.10	100.18	100.18	
	53-59	115.93	87.18	91.10	91.10	9999.00	9999.00	108.31	31.10	116.87	95.44	100.18	100.18	
	72-82	109.15	108.31	95.87	59.49	9999.00	258.40	158.90						
	83-89	130.20	71.74	96.74	97.17	91.10	9999.00	122.68	121.84	121.00	120.58	126.86	126.86	
1	20	126.03	123.94	124.35	130.20	127.29	123.10	125.19	123.94	123.94	123.94	122.26	122.26	
	102-112	125.19	123.10	124.35	130.20	127.29	123.10	125.19	0.00					
	113-120	125.19	123.10	124.35	93.27	102.76	149.98	149.98						
1	40	9999.00	81.04	102.75	85.74	86.74	84.56	88.05	86.74	86.74	84.56	86.74	84.56	
	2-12	87.62	89.36	89.35	85.93	91.97	95.44	79.72	80.16	101.90	100.18	9999.00	9999.00	
	13-23	9999.00	103.19	85.43	84.99	83.68	85.87							
1	40	78.40	77.95	83.64	83.68	251.68	256.34	112.33	83.24	9999.00	239.53	87.62	87.62	
	31-41	83.24	79.26	80.60	72.53	85.43	90.23	91.54	82.36	130.62	123.94	91.10	91.10	
	42-52	93.27	92.41	89.80	94.57	93.27	94.57	92.41						
1	40	65.49	107.03	85.43	91.54	95.44	100.16	87.18	155.27	148.35	91.10	100.61	100.61	
	53-59	116.77	88.05	91.10	91.10	9999.00	9999.00	104.04	28.29	9999.00	90.67	95.87	95.87	
	72-82	104.91	104.04	91.54	56.24	9999.00	231.99	9999.00						
	83-89	125.19	67.28	91.54	92.41	86.74	9999.00	123.10	122.26	121.84	121.00	125.19	125.19	
1	40	125.19	123.22	123.52	128.12	125.61	120.58	122.26	121.00	121.00	121.00	120.13	120.13	
	102-112	124.77	120.13	84.56	93.71	98.89	149.98	149.98	0.00					
	113-120													
2	0	9999.00	81.04	104.04	83.25	87.18	84.56	88.05	87.18	87.18	84.56	87.18	84.56	
	2-12	88.05	89.36	92.84	92.41	92.84	95.87	80.16	80.16	102.33	100.61	9999.00	9999.00	
	13-23	9999.00	104.04	85.87	85.43	84.12	86.31							
2	0	78.84	74.84	84.12	84.12	247.78	252.26	102.76	83.68	9999.00	235.39	87.62	87.62	
	31-41	83.24	75.84	80.60	72.53	86.74	90.67	91.97	82.80	133.94	128.12	91.10	91.10	
	42-52	93.27	92.41	89.80	95.44	93.27	95.01	92.84						
2	0	65.04	105.31	85.43	91.10	95.44	101.04	87.18	156.49	150.39	91.10	101.47	101.47	
	53-59	116.35	83.05	91.10	91.10	9999.00	9999.00	104.04	29.23	113.82	91.10	95.87	95.87	
	72-82	105.32	103.19	91.97	57.17	9999.00	228.58	134.77						
	83-89	124.35	67.28	91.97	92.84	86.74	9999.00	123.10	122.68	122.26	121.84	125.19	125.19	
2	0	125.19	123.22	123.94	128.12	125.19	120.13	122.26	121.00	121.00	121.00	120.13	120.13	
	102-112	124.77	120.13	84.12	93.71	98.89	149.98	149.98	0.00					
	113-120													
2	20	9999.00	81.04	105.32	83.25	87.62	84.56	88.05	87.62	87.62	84.56	87.62	84.56	
	2-12	88.05	89.80	95.87	95.44	94.14	97.17	79.72	80.16	101.90	100.61	9999.00	9999.00	
	13-23	9999.00	104.04	86.74	85.87	84.56	86.74							
2	20	77.95	77.95	84.12	84.12	248.15	253.00	102.76	64.58	9999.00	235.77	9999.00	9999.00	
	31-41	83.24	79.28	80.15	72.53	86.74	91.10	92.41	83.68	136.84	131.45	91.97	91.97	
	42-52	93.71	92.84	91.10	95.44	93.71	95.44	93.71						
2	20	65.49	105.31	86.31	91.54	95.44	101.90	87.18	158.11	152.43	91.10	101.90	101.90	
	53-59	116.77	85.93	91.10	91.10	9999.00	9999.00	104.04	32.51	9999.00	91.10	96.30	96.30	
	72-82	105.32	104.04	91.97	57.44	9999.00	229.33	134.77						
	83-89	125.19	67.28	92.41	93.27	86.74	9999.00	124.35	123.52	123.10	122.68	126.45	126.45	
2	20	126.03	124.35	124.77	125.53	126.45	120.58	122.26	121.00	121.84	121.84	121.00	121.00	
	102-112	125.19	120.13	84.56	94.57	99.75	149.98	149.98	0.00					
	113-120													

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. NO. 11-3 (1-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS	TEMPERATURES - FAHRENHEIT											
2 30	2- 12	9999.00	81.04	105.75	89.16	88.05	84.56	88.05	87.18	84.99	88.05	92.84
	13- 23	88.05	89.80	97.17	97.17	95.44	96.74	80.16	103.19	101.47	80.16	9999.00
2 30	24- 29	9999.00	104.47	86.74	85.51	84.56	86.74	84.56	9999.00	236.14	84.56	88.49
	31- 41	77.51	77.07	84.12	83.58	249.27	253.37	104.04	9999.00	133.53	92.41	91.97
	42- 52	83.24	73.84	80.16	72.19	86.74	91.10	93.71	138.08	83.24	83.24	88.49
	53- 59	93.71	92.84	91.10	95.44	93.71	95.44	93.71	9999.00	159.32	159.32	102.33
2 30	51- 71	65.04	109.73	86.74	91.10	95.44	102.33	87.18	115.09	91.10	35.31	96.74
	72- 82	116.77	88.93	91.10	91.10	9999.00	9999.00	104.47	9999.00	91.10	91.10	102.33
	83- 89	105.75	104.04	92.84	39.03	9999.00	230.47	135.18	115.09	91.97	35.31	96.74
2 30	91-101	125.19	69.07	92.84	93.71	87.62	9999.00	125.19	123.94	123.52	124.77	127.28
	102-112	126.85	125.19	125.19	129.37	126.86	121.00	173.52	122.68	122.26	122.26	121.00
	113-120	126.45	121.00	84.12	54.57	9999.00	149.96	149.98	122.26	122.26	0.00	121.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-9 (1-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL JUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT														
		9599.00	9999.00	76.00	9999.00	9999.00	87.00	87.00	85.00	85.00	87.00	87.00	85.00	87.00	88.00	88.00
24 0	H11-H11	90.00	89.00	91.00	85.00	87.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	88.00	90.00
	H12-H22	84.00	-0.00													
	B23-B24															
0 10	H11-H11	90.00	89.00	91.00	85.00	87.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00	86.00	90.00
	H12-H22	84.00	-0.00													
	B23-B24															
0 20	H11-H11	90.00	89.00	91.00	85.00	87.00	86.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00	86.00	90.00
	H12-H22	85.00	-0.00													
	B23-B24															
0 30	H11-H11	90.00	89.00	91.00	85.00	87.00	87.00	84.00	84.00	84.00	84.00	84.00	84.00	84.00	86.00	90.00
	H12-H22	85.00	-0.00													
	B23-B24															
0 40	H11-H11	90.00	89.00	91.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	90.00
	H12-H22	85.00	-0.00													
	B23-B24															
0 50	H11-H11	91.00	90.00	92.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	91.00
	H12-H22	85.00	-0.00													
	B23-B24															
1 0	H11-H11	91.00	90.00	92.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	91.00
	H12-H22	84.00	-0.00													
	B23-B24															
1 10	H11-H11	92.00	91.00	93.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	92.00
	H12-H22	85.00	-0.00													
	B23-B24															
1 20	H11-H11	92.00	91.00	93.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	92.00
	H12-H22	85.00	-0.00													
	B23-B24															
1 30	H11-H11	93.00	92.00	94.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	93.00
	H12-H22	85.00	-0.00													
	B23-B24															
1 40	H11-H11	93.00	92.00	94.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	93.00
	H12-H22	85.00	-0.00													
	B23-B24															
1 50	H11-H11	94.00	93.00	95.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	94.00
	H12-H22	85.00	-0.00													
	B23-B24															
2 0	H11-H11	94.00	93.00	95.00	85.00	87.00	86.00	83.00	83.00	83.00	83.00	83.00	83.00	83.00	86.00	94.00
	H12-H22	85.00	-0.00													
	B23-B24															

APOLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-3 (1-21-65)
 TEST POINT NO. 1, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL JUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
2 10	B01-B11	9999.00	9999.00	75.00	9999.00	9999.00	86.00	88.00	83.00	84.00	88.00	90.00	
	B12-B22	94.00	91.00	95.00	87.00	88.00	83.00	85.00	83.00	91.00	90.00	95.00	
	B23-B24	85.00	-0.00										
2 20	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	87.00	88.00	84.00	85.00	89.00	90.00	
	B12-B22	95.00	91.00	95.00	87.00	89.00	84.00	85.00	84.00	92.00	91.00	95.00	
	B23-B24	85.00	-0.00										
2 30	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	87.00	88.00	84.00	85.00	89.00	90.00	
	B12-B22	95.00	91.00	96.00	87.00	89.00	84.00	86.00	84.00	92.00	91.00	96.00	
	B23-B24	85.00	-0.00										

APOLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-B (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT											
11 11	2- 12	9999.00	84.12	69.07	84.56	85.87	84.56	83.68	85.87	87.62	86.31	-137.30	
	13- 23	85.43	88.49	98.89	100.51	92.84	89.80	57.82	92.84	-173.07	-176.49	9999.00	
	24- 29	9999.00	-167.67	81.04	80.60	81.92	80.16		81.92				
11 11	31- 41	72.19	72.19	81.92	82.36	42.27	43.19	-167.00	80.60	9999.00	31.57	84.12	
	42- 52	82.80	73.97	82.35	77.51	84.56	82.80	83.68	81.92	84.99	87.18	85.87	
	53- 59	82.35	82.80	86.31	84.56	82.80	83.24	84.56					
11 11	51- 71	62.34	55.10	77.95	73.52	79.28	72.63	78.40	73.08	75.74	69.96	79.72	
	72- 82	63.69	75.74	74.85	74.96	9999.00	9999.00	-109.37	-86.83	-149.96	-179.94	-139.17	
	85- 89	-109.95	-137.30	-148.04	-122.53	9999.00	30.17	-53.46					
11 11	91-101	-99.42	-161.68	-164.99	-142.75	-155.78	9999.00	9999.00	9.23	11.16	13.08	-7.86	
	102-112	1.95	-0.49	-7.85	-35.54	-48.69	-58.81	-56.13	-53.46	-45.01	-51.34	-41.35	
	113-120	-7.37	-55.06	84.56	85.43	-114.72	9999.00	9999.00	9999.00				
11 14	2- 12	9999.00	84.12	67.73	84.56	85.87	84.56	83.68	85.87	87.18	85.87	-139.17	
	13- 23	85.43	88.49	98.46	100.51	92.84	89.80	57.37	92.84	-173.75	-177.87	9999.00	
	24- 29	9999.00	-167.57	80.60	80.16	81.48	79.72		81.48				
11 14	31- 41	71.74	72.19	82.35	81.92	40.42	41.35	-167.67	80.16	9999.00	30.63	84.12	
	42- 52	82.35	73.08	81.92	75.53	84.56	82.80	83.68	81.92	84.56	86.74	85.87	
	53- 59	82.35	82.36	86.31	84.56	82.80	82.80	84.56					
11 14	51- 71	60.54	53.28	77.51	73.18	78.84	72.19	77.51	71.74	75.30	69.52	79.28	
	72- 82	62.72	75.30	74.41	74.41	9999.00	9999.00	-81.78	-80.66	-115.31	-141.69	-105.84	
	83- 89	-66.42	-108.78	-104.08	-118.31	9999.00	32.51	-48.17					
11 14	91-101	-74.57	-129.36	-126.80	-99.42	-90.24	9999.00	9999.00	9999.00	10.68	12.12	2.93	
	102-112	6.33	9999.00	4.39	-7.37	-15.82	-28.97	-26.42	-23.37	-19.34	-23.37	-14.32	
	113-120	5.35	-24.39	84.12	84.99	-62.59	9999.00	9999.00	9999.00				
11 16	2- 12	9999.00	83.58	66.39	84.12	85.43	84.12	83.68	85.87	87.18	85.87	-69.66	
	13- 23	84.99	88.05	98.45	100.18	92.41	89.36	60.54	92.41	-95.38	-90.24	9999.00	
	24- 29	9999.00	-89.23	80.60	79.72	81.04	79.72		81.04				
11 16	31- 41	71.74	71.74	81.48	81.48	40.42	41.35	-77.88	79.72	9999.00	35.31	83.68	
	42- 52	81.92	72.19	81.04	75.74	84.12	82.36	83.24	81.48	83.68	86.31	85.43	
	53- 59	81.43	81.92	85.87	84.12	82.36	82.36	84.12					
11 16	51- 71	58.73	51.45	76.63	72.19	78.40	71.30	77.95	70.41	74.41	68.62	78.84	
	72- 82	61.44	74.36	73.97	73.97	9999.00	9999.00	-23.37	-60.43	-39.79	-58.81	-40.83	
	83- 89	2.93	-50.28	-24.39	-47.54	9999.00	37.17	-34.61					
11 16	91-101	-29.97	-68.58	-54.53	-29.39	-9.84	9999.00	12.60	13.56	13.56	14.04	15.48	
	102-112	13.04	14.52	18.82	24.14	23.09	8.75	9.71	12.60	12.12	11.64	17.39	
	113-120	18.82	11.16	83.68	84.99	-10.34	9999.00	9999.00	9999.00				
11 18	2- 12	9999.00	83.24	65.04	84.12	85.43	84.12	83.24	85.87	87.18	85.43	9999.00	
	13- 23	84.99	87.62	98.03	100.18	92.41	89.36	65.94	92.41	-30.50	-24.39	9999.00	
	24- 29	9999.00	-25.91	80.15	79.72	81.04	79.72		81.04				
11 18	31- 41	71.30	71.30	81.48	81.48	41.81	42.73	-19.34	79.28	9999.00	39.03	83.68	
	42- 52	81.92	71.74	81.04	75.30	84.12	82.36	83.24	81.04	83.68	85.87	85.43	
	53- 59	81.92	81.92	85.87	84.12	82.36	82.36	84.12					
11 18	51- 71	57.37	49.53	76.63	72.19	78.40	71.30	77.07	70.41	73.97	68.62	78.84	
	72- 82	60.54	74.96	73.97	73.52	9999.00	9999.00	32.98	-42.92	9.23	-15.32	-6.88	
	83- 89	79.72	-17.33	42.27	7.30	9999.00	40.88	-17.83					
11 18	91-101	-2.94	-32.04	-15.82	51.45	81.48	9999.00	22.15	22.62	21.20	20.72	42.73	
	102-112	28.75	32.51	48.25	74.41	76.63	57.37	55.55	59.63	55.55	56.46	61.89	
	113-120	45.95	57.57	83.68	84.99	32.98	9999.00	9999.00	9999.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-8 (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, FACING SOLAR

TIME CHANNELS

TEMPERATURES - FAHRENHEIT

11 20	2-12	9999.00	83.24	64.59	84.12	85.43	84.12	83.24	85.43	87.18	85.43	48.25
	13-23	84.55	88.05	98.03	100.18	92.41	88.49	72.63	74.41	-3.92	0.49	9999.00
11 20	24-29	9999.00	0.00	80.16	78.84	80.60	78.84					
	31-41	70.85	71.30	81.04	81.74	44.12	45.04	2.44	79.28	9999.00	42.27	83.24
	42-52	81.45	71.30	80.60	74.96	83.68	82.36	83.24	81.04	82.80	85.43	85.43
11 20	53-59	81.92	82.36	85.43	84.12	82.36	82.36	83.68				
	51-71	56.01	48.25	76.19	71.74	78.84	70.85	77.07	70.41	73.97	69.07	79.28
	72-82	59.13	74.41	73.52	73.52	9999.00	9999.00	87.62	-23.88	61.44	31.57	37.64
11 20	83-89	128.95	25.93	107.03	61.44	9999.00	52.82	12.12	34.84	32.04	30.17	65.04
	91-101	41.35	15.96	37.17	128.95	164.56	9999.00	34.38	96.30	87.62	94.14	95.87
	102-112	50.54	51.45	71.74	108.73	110.43	94.57	80.16	9999.00			
	113-120	65.04	96.74	83.68	84.56	88.93	9999.00	9999.00				
11 22	2-12	9999.00	82.80	63.24	83.68	85.43	83.68	82.80	85.43	87.18	85.43	148.76
	13-23	84.55	88.05	98.03	99.75	91.97	88.93	84.56	86.74	69.96	76.19	9999.00
11 22	24-29	9999.00	77.07	79.72	79.94	80.60	78.84					
	31-41	70.85	71.30	81.04	81.74	50.08	51.45	80.16	79.28	9999.00	58.73	83.24
	42-52	81.45	71.30	80.60	73.97	83.68	82.36	82.80	80.60	82.80	84.99	85.43
11 22	53-59	83.24	82.50	85.43	84.56	82.36	82.36	84.12				
	51-71	54.64	47.79	75.74	72.19	80.16	70.85	77.07	70.41	74.86	69.96	81.48
	72-82	58.29	73.97	73.52	73.98	9999.00	9999.00	152.43	6.81	111.28	77.95	79.28
11 22	83-89	208.29	225.16	176.16	109.73	9999.00	64.14	50.54				
	91-101	76.19	59.63	77.95	193.52	210.99	9999.00	54.19	54.64	50.08	46.42	96.74
	102-112	61.89	77.07	104.04	148.52	146.71	133.53	133.53	137.25	126.86	134.36	134.36
	113-120	97.17	135.84	83.24	84.99	132.70	9999.00	9999.00				
11 24	2-12	9999.00	82.80	62.34	83.68	84.99	83.68	82.80	85.43	86.74	84.99	178.54
	13-23	84.55	87.62	97.60	99.75	91.97	88.93	93.27	95.87	91.10	93.27	9999.00
11 24	24-29	9999.00	94.57	79.28	78.40	80.16	78.40					
	31-41	70.85	71.30	80.60	80.60	57.37	58.28	94.57	78.84	9999.00	65.49	83.24
	42-52	81.45	71.30	80.15	73.52	83.68	82.36	82.80	80.60	82.36	84.99	84.99
11 24	53-59	84.55	84.12	85.43	83.43	83.68	83.68	84.12				
	51-71	53.73	47.79	75.74	72.53	84.56	72.19	77.51	71.74	76.19	71.74	86.31
	72-82	57.82	73.97	73.97	73.97	9999.00	9999.00	171.78	9999.00	119.29	84.56	87.62
11 24	83-89	223.63	77.95	184.49	115.55	9999.00	70.41	76.19				
	91-101	83.68	62.34	84.99	204.42	215.22	9999.00	69.96	70.41	65.04	60.99	109.16
	102-112	84.12	91.10	114.65	154.95	150.39	139.32	141.79	144.66	135.18	142.61	141.38
	113-120	107.45	144.66	83.24	85.43	154.46	9999.00	9999.00				
11 26	2-12	9999.00	82.36	61.89	83.24	84.99	83.68	82.80	84.99	86.74	84.99	186.84
	13-23	84.55	87.62	97.60	99.75	91.10	88.49	97.17	101.04	95.87	96.74	9999.00
11 26	24-29	9999.00	98.03	78.84	77.95	79.72	77.95					
	31-41	70.85	71.30	80.15	80.60	64.14	65.04	98.03	78.40	9999.00	71.30	82.80
	42-52	81.04	71.74	80.15	72.53	83.68	81.92	83.24	80.16	82.80	84.99	85.43
11 26	53-59	87.62	86.74	84.99	87.62	85.43	84.99	84.56				
	51-71	53.28	48.71	75.30	73.97	90.67	75.30	78.84	73.97	78.40	74.41	93.71
	72-82	58.73	73.97	75.30	74.96	9999.00	9999.00	182.11	22.62	9999.00	87.62	91.54
11 26	83-89	229.71	82.80	187.24	119.29	9999.00	76.19	95.01				
	91-101	88.05	65.49	88.05	209.10	217.90	9999.00	83.68	83.68	77.95	73.52	117.61
	102-112	91.10	102.33	122.25	158.92	154.05	144.66	146.71	149.57	140.14	147.53	146.71
	113-120	115.93	149.16	83.24	85.74	152.83	9999.00	9999.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EX. NO. 11-B (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HJT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME	C CHANNELS	TEMPERATURES - FAHRENHEIT												
11 28	2-12	9999.00	82.36	61.89	63.24	84.56	83.68	82.80	84.99	86.74	84.99	82.80	84.99	190.38
	13-23	84.55	87.62	97.17	98.89	91.97	88.93	99.75	104.04	97.60	98.03	99.75	98.03	9999.00
	24-29	9999.00	99.75	78.84	78.40	79.72	77.95	77.95	78.40	9999.00	9999.00	98.89	77.07	82.80
	31-41	70.85	71.30	80.15	80.16	70.85	71.74	82.36	80.16	82.80	84.99	83.24	84.99	85.87
	42-52	81.43	81.43	80.15	80.16	82.36	82.36	85.43	82.36	80.16	82.80	85.43	82.36	85.87
	53-59	90.23	89.36	84.99	89.80	87.62	86.74	85.43	84.99	80.16	82.80	85.43	84.99	85.87
11 28	51-71	52.37	51.71	75.74	75.30	95.87	79.28	79.28	75.74	80.60	75.74	79.28	75.74	100.18
	72-82	60.99	74.86	76.19	76.19	9999.00	9999.00	189.60	24.99	123.94	189.60	24.99	88.93	93.27
	83-89	233.88	85.43	189.20	121.42	9999.00	81.92	108.73	95.01	89.80	84.99	108.73	84.99	127.28
	91-101	90.67	66.93	89.80	212.91	220.20	9999.00	95.87	154.46	145.48	152.43	160.13	152.43	152.02
	102-112	100.61	112.13	130.20	163.76	158.92	148.76	160.13	154.46	145.48	152.43	160.13	152.43	152.02
	113-120	123.52	154.05	83.24	87.52	158.11	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
11 30	2-12	9999.00	81.48	62.34	82.90	84.56	83.24	82.36	84.56	86.31	84.56	82.36	84.56	193.91
	13-23	84.55	87.62	97.17	99.82	91.10	88.49	101.47	106.60	101.04	101.04	101.47	101.04	9999.00
	24-29	9999.00	102.33	78.40	77.95	79.28	77.51	77.51	79.28	9999.00	9999.00	102.33	77.51	82.36
	31-41	71.30	71.30	80.16	80.16	77.95	79.28	83.24	79.72	83.24	84.99	83.24	84.99	86.31
	42-52	81.04	72.63	79.72	71.30	83.24	81.92	83.24	81.92	79.72	83.24	83.24	84.99	86.31
	53-59	92.41	91.54	84.99	91.54	89.36	88.49	86.74	86.74	84.99	83.24	86.74	84.99	86.31
11 30	51-71	52.37	55.55	76.19	75.53	99.75	83.24	80.60	77.51	82.80	77.07	80.60	77.07	104.90
	72-82	64.14	75.30	77.51	77.17	9999.00	9999.00	9999.00	27.35	126.45	91.54	9999.00	91.54	99.44
	83-89	236.14	88.93	190.77	123.10	9999.00	87.62	119.29	87.62	119.29	91.54	119.29	91.54	99.44
	91-101	94.14	69.52	92.41	215.22	220.96	9999.00	106.18	105.32	99.75	95.44	106.18	95.44	134.77
	102-112	112.55	120.58	136.84	167.77	163.76	152.83	156.49	159.32	149.57	156.89	156.49	156.89	156.89
	113-120	130.62	158.51	83.24	88.73	162.15	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
11 32	2-12	9999.00	81.04	63.24	83.24	84.56	83.24	81.92	84.56	86.31	84.56	81.92	84.56	197.03
	13-23	84.55	87.62	96.74	98.89	91.10	88.05	102.33	108.31	103.19	103.19	102.33	103.19	9999.00
	24-29	9999.00	104.47	78.84	77.95	79.28	77.95	77.95	79.28	9999.00	9999.00	104.47	77.95	82.36
	31-41	71.30	71.30	80.16	80.16	84.99	86.31	104.04	77.95	83.24	85.43	104.04	85.43	86.31
	42-52	81.43	73.52	80.15	70.85	82.80	82.36	83.68	79.72	83.24	85.43	83.68	85.43	86.31
	53-59	94.14	93.27	84.99	93.27	91.10	90.23	87.62	79.72	83.24	85.43	87.62	85.43	86.31
11 32	51-71	51.91	59.18	76.63	77.51	102.76	85.87	81.92	79.72	84.99	78.84	81.92	78.84	108.73
	72-82	66.83	75.74	78.84	79.40	9999.00	9999.00	198.98	29.23	9999.00	93.27	198.98	93.27	96.74
	83-89	238.78	91.10	191.95	124.45	9999.00	93.27	127.70	93.27	127.70	93.27	127.70	93.27	96.74
	91-101	95.87	69.96	93.27	217.14	222.49	9999.00	115.09	114.24	108.31	104.04	115.09	104.04	140.96
	102-112	119.29	127.70	9999.00	171.48	167.77	155.68	159.73	162.15	153.24	160.53	162.15	160.53	160.53
	113-120	136.84	161.34	83.24	90.33	163.36	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
11 34	2-12	9999.00	81.04	64.59	82.90	84.12	83.24	82.36	84.56	85.87	84.12	82.36	84.12	196.64
	13-23	84.55	87.18	96.74	98.89	91.54	88.49	104.04	109.58	9999.00	101.04	104.04	101.04	9999.00
	24-29	9999.00	9999.00	78.40	77.95	79.28	77.95	77.95	79.28	9999.00	9999.00	77.95	77.95	82.36
	31-41	9999.00	71.74	80.16	80.16	92.41	93.71	101.47	77.95	84.12	85.87	101.47	85.87	87.18
	42-52	81.43	74.41	79.72	70.41	9999.00	81.92	84.12	79.28	84.12	85.87	84.12	85.87	87.18
	53-59	95.44	95.01	84.99	94.57	92.84	91.97	88.93	81.92	79.28	85.87	88.93	79.28	87.18
11 34	51-71	51.91	63.69	77.51	79.44	104.90	88.93	82.80	81.48	86.74	79.28	82.80	79.28	111.70
	72-82	70.41	75.63	79.72	79.28	9999.00	9999.00	200.15	28.29	124.77	89.80	200.15	89.80	94.14
	83-89	238.40	88.93	190.77	123.10	9999.00	97.60	132.70	97.60	124.77	89.80	132.70	89.80	94.14
	91-101	93.71	67.28	89.80	217.90	221.72	9999.00	122.68	121.42	116.35	112.13	122.68	112.13	146.30
	102-112	126.45	134.36	147.12	174.17	170.98	157.70	162.15	164.56	155.68	162.95	162.15	164.56	163.36
	113-120	141.79	163.76	83.24	91.54	163.36	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00

A0-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-9 (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HZI LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, FACING SOLAR

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT															
11 40	2- 12	9999.00	80.50	69.52	82.90	83.68	83.24	82.36	84.12	85.87	84.12	84.12	198.98				
	13- 23	84.99	86.74	96.30	98.46	91.54	88.49	106.18	111.70	101.47	101.04	9999.00					
11 40	24- 29	9999.00	102.33	78.40	77.35	78.40	78.40										
	31- 41	72.63	73.52	80.60	80.60	114.24	116.77	101.90	77.07	9999.00	112.55	82.36					
	42- 52	82.35	77.07	79.72	69.17	82.36	82.36	84.56	78.84	85.43	86.74	88.49					
11 40	53- 59	98.89	98.03	85.87	98.73	96.74	96.30	91.97									
	51- 71	51.91	75.74	78.40	81.04	109.16	95.87	86.74	86.74	92.41	81.48	117.61					
	72- 82	80.15	78.84	81.49	82.36	9999.00	9999.00	204.81	30.17	126.03	90.67	95.01					
11 40	83- 89	240.65	92.94	191.95	125.19	9999.00	114.66	143.84									
	91-101	99.75	68.17	91.10	220.36	222.87	9999.00	140.96	139.32	134.36	9999.00	160.53					
	102-112	144.25	149.16	160.53	183.39	9999.00	164.96	170.18	172.57	164.16	170.18	171.78					
	113-120	155.27	170.98	83.68	95.11	166.17	9999.00	9999.00	9999.00								
11 50	2- 12	9999.00	81.04	82.80	83.68	84.12	84.12	82.36	84.56	85.87	83.68	204.03					
	13- 23	9999.00	86.74	95.44	97.50	92.41	89.36	110.01	115.51	105.32	104.47	9999.00					
11 50	24- 29	9999.00	106.18	78.84	79.40	79.28	79.72										
	31- 41	74.85	74.41	82.35	81.88	165.77	169.78	106.18	78.40	9999.00	156.89	82.80					
	42- 52	84.12	83.24	79.72	67.73	82.80	84.12	86.74	78.84	89.80	91.10	91.97					
11 50	53- 59	104.04	102.76	88.05	102.76	101.04	102.33	96.30									
	51- 71	53.29	95.87	80.16	84.12	113.40	106.60	91.10	98.46	103.19	84.12	124.77					
	72- 82	93.27	81.04	84.12	84.36	9999.00	9999.00	211.76	33.91	131.03	94.57	99.75					
11 50	83- 89	246.29	100.18	196.64	129.37	9999.00	156.08	156.49									
	91-101	112.97	71.74	95.44	226.30	227.44	9999.00	164.96	163.36	158.92	155.27	180.13					
	102-112	168.13	178.54	179.34	198.39	196.25	178.15	183.29	185.66	178.15	183.69	185.66					
	113-120	175.35	183.59	9999.00	99.75	172.17	9999.00	9999.00	9999.00								
12 0	2- 12	9999.00	82.36	93.27	84.12	84.56	84.56	83.24	84.56	85.87	83.68	204.81					
	13- 23	86.74	86.74	95.44	97.50	93.27	91.10	112.55	117.61	104.04	103.19	9999.00					
12 0	24- 29	9999.00	104.47	79.72	79.72	79.28	81.04										
	31- 41	75.74	75.74	82.80	82.80	196.25	200.15	104.47	78.84	9999.00	187.24	9999.00					
	42- 52	86.31	89.93	80.16	67.73	83.24	86.74	89.80	79.28	95.87	96.30	94.14					
12 0	53- 59	107.03	105.32	90.23	105.75	104.04	105.75	99.32									
	51- 71	55.10	107.46	81.04	85.97	115.93	114.24	95.01	110.01	113.40	86.31	129.37					
	72- 82	101.47	82.36	85.43	85.31	9999.00	9999.00	212.91	34.84	130.62	93.27	98.46					
12 0	83- 89	248.15	101.47	197.03	129.37	9999.00	184.87	159.73									
	91-101	117.61	70.41	93.71	227.92	228.58	9999.00	177.75	175.76	172.17	168.98	190.77					
	102-112	180.92	182.11	189.99	205.97	204.81	183.69	189.99	191.95	184.87	189.99	192.73					
	113-120	186.05	189.99	86.74	101.90	173.37	9999.00	9999.00	9999.00								
12 10	2- 12	9999.00	83.24	101.47	84.39	85.43	85.87	84.12	85.43	86.31	83.68	204.81					
	13- 23	87.62	87.18	95.44	98.13	95.44	92.41	115.09	119.71	104.04	104.04	9999.00					
12 10	24- 29	9999.00	104.90	80.60	80.16	79.72	81.48										
	31- 41	77.07	77.07	83.68	83.68	206.74	210.22	104.90	79.28	9999.00	197.81	84.12					
	42- 52	88.05	94.14	81.04	69.17	84.12	88.93	91.97	79.28	101.47	101.90	95.87					
12 10	53- 59	109.16	107.03	92.41	107.46	105.75	107.88	101.04									
	51- 71	57.37	115.09	81.04	87.18	117.19	120.13	97.60	118.87	122.26	87.18	132.28					
	72- 82	107.03	83.24	85.87	87.18	9999.00	9999.00	213.30	35.78	130.62	93.27	98.46					
12 10	83- 89	247.41	102.33	196.25	128.35	9999.00	9999.00	161.34									
	91-101	320.13	70.85	93.71	227.44	227.44	9999.00	186.06	183.69	180.13	177.35	197.03					
	102-112	188.42	189.91	195.86	210.22	209.06	167.24	193.12	195.08	188.42	193.52	196.64					
	113-120	192.73	192.73	88.05	104.14	174.17	9999.00	9999.00	9999.00								

APOLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. NO. II-8 (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME	CHANNELS	9999.00	85.43	108.31	85.87	86.74	84.99	86.31	87.18	84.56	202.87
12 20	2- 12	9999.00	85.43	108.31	85.87	86.74	84.99	86.31	87.18	84.56	202.87
	13- 23	88.49	87.62	95.87	95.46	94.14	116.77	121.42	101.47	101.04	9999.00
	24- 29	9999.00	9999.00	81.49	81.04	82.36					
12 20	31- 41	78.40	73.84	85.43	84.99	219.05	102.33	79.72	9999.00	9999.00	84.99
	42- 52	89.80	98.46	82.80	63.96	91.97	94.57	80.16	107.88	107.88	97.60
	53- 59	110.85	9999.00	93.71	109.73	109.16	103.19				
12 20	51- 71	60.08	121.00	81.92	88.49	117.61	100.18	126.45	129.37	9999.00	134.77
	72- 82	112.53	9999.00	86.74	88.05	9999.00	211.76	9999.00	128.53	91.10	96.74
	83- 89	246.65	101.04	195.08	127.70	9999.00	204.03				
12 20	91-101	121.00	69.07	91.97	225.92	9999.00	191.17	189.20	185.66	183.29	201.31
	102-112	193.52	193.12	200.54	212.14	210.99	195.08	197.42	189.99	195.08	199.37
	113-120	197.03	194.59	9999.00	105.32	174.17	9999.00	9999.00	9999.00		
12 40	2- 12	9999.00	89.36	117.61	88.05	89.36	86.74	87.62	88.93	85.87	202.87
	13- 23	91.10	89.93	98.03	101.04	97.60	120.13	124.35	102.76	102.33	9999.00
	24- 29	9999.00	104.04	82.80	82.36	83.24					
12 40	31- 41	80.15	80.50	88.05	87.52	240.66	104.04	81.04	9999.00	226.30	87.18
	42- 52	93.71	105.75	85.87	74.41	95.87	98.46	81.48	118.03	118.45	100.61
	53- 59	113.40	110.43	96.30	110.86	111.28	105.32				
12 40	51- 71	64.59	128.53	82.80	90.57	134.77	104.04	138.08	141.79	90.67	138.90
	72- 82	117.19	84.99	88.05	89.30	9999.00	211.76	35.31	129.78	91.97	98.03
	83- 89	246.65	104.04	195.08	127.70	9999.00	161.74				
12 40	91-101	126.85	69.96	127.84	225.54	9999.00	198.98	196.25	193.52	191.17	207.13
	102-112	200.93	200.15	206.35	215.87	215.60	193.12	201.31	194.69	199.37	203.26
	113-120	203.64	198.59	93.27	107.46	175.36	9999.00	9999.00	9999.00		
13 0	2- 12	9999.00	93.71	124.35	88.93	92.41	88.49	88.93	91.10	87.62	207.13
	13- 23	93.27	89.80	101.04	104.14	101.04	123.52	128.12	9999.00	105.32	9999.00
	24- 29	9999.00	107.03	83.68	83.58	83.68					
13 0	31- 41	79.72	80.60	90.23	89.36	244.41	107.03	81.92	9999.00	230.85	9999.00
	42- 52	97.17	110.43	89.80	78.34	99.75	101.90	82.80	127.70	128.53	102.76
	53- 59	115.51	112.55	9999.00	113.40	113.82	107.46				
13 0	51- 71	68.17	131.45	83.68	92.41	141.79	106.60	147.53	151.20	9999.00	142.61
	72- 82	121.42	85.87	89.80	91.54	9999.00	214.83	37.64	133.94	95.44	101.04
	83- 89	251.14	9999.00	198.98	131.13	9999.00	163.56				
13 0	91-101	130.62	72.19	195.87	229.53	9999.00	204.42	202.48	198.98	197.42	212.53
	102-112	206.74	205.58	211.75	221.72	220.58	203.26	206.35	199.76	204.42	208.67
	113-120	209.05	205.26	97.17	109.16	179.34	9999.00	9999.00	9999.00		
13 20	2- 12	9999.00	97.50	129.79	92.54	94.57	90.23	90.67	92.84	89.36	207.13
	13- 23	95.87	91.10	104.04	107.46	104.04	126.03	130.20	105.75	105.32	9999.00
	24- 29	9999.00	107.03	84.99	84.56	85.43					
13 20	31- 41	77.07	77.95	90.67	90.23	243.66	9999.00	83.24	9999.00	231.99	90.67
	42- 52	100.19	114.56	94.14	82.80	102.33	104.47	84.12	135.60	137.25	104.47
	53- 59	117.19	113.82	101.47	115.19	115.51	109.16				
13 20	51- 71	71.74	138.08	84.56	94.14	147.12	108.73	154.86	158.51	9999.00	146.30
	72- 82	125.19	87.18	91.10	93.27	9999.00	215.22	9999.00	133.11	94.57	100.61
	83- 89	251.14	107.03	9999.00	131.13	9999.00	165.77				
13 20	91-101	130.20	71.30	95.44	229.53	9999.00	209.45	207.51	205.19	202.87	216.37
	102-112	211.37	209.45	215.93	224.11	222.87	200.15	207.90	201.70	206.35	210.60
	113-120	213.63	204.42	9999.00	111.28	180.52	9999.00	9999.00	9999.00		

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-8 (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, FACING SOLAR

TIME	C CHANNELS	TEMPERATURES - FAHRENHEIT
13 40	2-12	9999.00 101.47 134.35 95.44 92.41 97.17 91.97 91.97 94.57 91.54 210.99
	13-23	98.03 92.41 107.88 110.86 9999.00 107.03 128.95 132.70 111.70 110.86 9999.00
13 40	24-29	9999.00 112.97 85.87 85.47 86.31 9999.00 9999.00 84.12 9999.00 238.03 9999.00
	31-41	76.19 77.07 91.97 91.10 247.03 105.75 107.46 85.43 142.20 144.25 9999.00
	42-52	103.61 118.03 9999.00 87.18 90.67 105.75 107.46 85.43 142.20 144.25 9999.00
13 40	53-59	119.29 115.51 101.90 115.77 115.09 117.19 110.43 160.13 164.16 95.44 149.16
	61-71	75.30 142.20 85.87 95.44 124.77 151.61 111.28 42.73 140.55 101.04 107.03
	72-82	127.70 83.05 92.84 95.11 9999.00 219.43 169.78 212.14 209.06 207.51 220.58
13 40	83-99	255.60 9999.00 204.81 135.18 9999.00 234.63 169.78 212.14 209.06 207.51 220.58
	91-101	136.84 78.40 101.90 233.18 233.50 9999.00 213.68 213.30 206.74 210.99 215.60
	102-112	215.60 214.07 220.58 228.36 227.82 205.19 210.22 213.30 206.74 210.99 215.60
	113-120	218.28 209.83 9999.00 112.37 185.27 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
14 0	2-12	9999.00 105.32 138.49 98.13 93.71 99.75 93.27 93.71 96.74 93.27 208.67
	13-23	100.18 93.71 111.28 114.56 108.73 110.01 130.20 134.36 105.75 105.32 9999.00
14 0	24-29	9999.00 107.03 87.18 87.18 86.74 87.62 9999.00 84.99 9999.00 236.14 93.71
	31-41	9999.00 77.07 93.27 92.41 245.54 248.53 110.01 9999.00 147.94 151.20 108.31
	42-52	106.18 121.00 102.33 90.47 92.41 108.73 110.01 9999.00 147.94 151.20 108.31
14 0	53-59	121.00 117.19 9999.00 115.45 116.77 118.87 112.55 165.37 169.38 9999.00 152.43
	61-71	9999.00 145.89 87.18 97.17 126.45 154.86 113.82 39.03 134.77 95.44 101.47
	72-82	131.03 89.36 94.57 95.74 9999.00 232.37 167.37 214.45 212.14 210.60 220.96
14 0	83-89	253.37 108.31 201.31 132.28 9999.00 232.37 167.37 214.45 212.14 210.60 220.96
	91-101	132.28 72.53 96.30 229.58 230.47 9999.00 216.37 212.53 206.35 210.22 215.60
	102-112	217.91 215.60 221.34 228.58 227.44 204.42 209.06 212.53 206.35 210.22 215.60
	113-120	219.81 209.06 9999.00 115.19 182.90 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
14 20	2-12	9999.00 108.31 141.38 100.18 95.44 101.47 95.01 95.01 98.46 95.44 210.99
	13-23	102.33 94.57 114.65 119.45 110.86 112.97 132.28 136.43 108.31 107.88 9999.00
14 20	24-29	9999.00 109.58 88.05 88.15 87.62 88.49 9999.00 85.87 9999.00 235.39 95.44
	31-41	76.63 77.95 94.57 93.71 244.41 247.41 9999.00 88.05 152.02 155.68 109.58
	42-52	108.73 123.10 105.75 94.14 93.71 110.86 112.13 88.05 152.02 155.68 109.58
14 20	53-59	122.25 119.45 104.90 120.13 118.03 120.58 113.82 167.77 172.57 9999.00 154.86
	61-71	81.04 147.94 88.05 98.46 127.70 157.30 115.93 40.42 138.08 98.46 104.47
	72-82	132.29 90.23 95.44 97.50 9999.00 9999.00 9999.00 40.42 138.08 98.46 104.47
14 20	83-89	256.34 9999.00 204.42 134.77 9999.00 231.99 167.77 216.37 214.07 212.53 223.25
	91-101	134.35 75.74 99.32 234.26 233.88 9999.00 217.90 216.37 208.29 212.91 218.28
	102-112	219.43 217.52 223.25 231.35 229.71 206.74 211.37 216.37 208.29 212.91 218.28
	113-120	221.72 211.37 9999.00 116.15 185.66 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
14 30	2-12	9999.00 109.58 142.61 101.47 95.87 102.76 95.87 95.87 99.75 95.87 211.76
	13-23	103.61 95.87 116.77 120.15 112.13 114.24 133.53 137.67 108.73 108.31 9999.00
14 30	24-29	9999.00 109.58 88.49 88.49 88.49 88.93 9999.00 86.74 9999.00 237.27 96.30
	31-41	76.63 77.95 94.57 95.44 245.91 249.65 9999.00 88.49 9999.00 158.11 110.43
	42-52	110.01 124.35 107.45 95.44 94.57 112.13 113.40 88.49 9999.00 158.11 110.43
14 30	53-59	123.10 118.87 9999.00 121.42 119.29 121.42 114.66 169.78 174.17 9999.00 156.49
	61-71	82.35 149.16 88.49 99.52 128.95 158.51 117.19 40.42 136.01 96.74 102.76
	72-82	133.53 91.10 96.30 98.46 9999.00 9999.00 218.28 40.42 136.01 96.74 102.76
14 30	83-89	254.85 9999.00 202.48 133.53 9999.00 233.50 169.38 217.90 215.22 214.07 224.01
	91-101	133.11 74.41 97.60 232.74 231.99 9999.00 218.67 217.90 215.22 214.07 224.01
	102-112	9999.00 218.57 224.39 230.45 229.71 206.74 210.99 214.83 208.29 212.14 217.90
	113-120	222.49 210.99 110.43 117.19 184.87 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00

APO-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. II-B (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, FACING SOLAR

TIME		C-CHANNELS	TEMPERATURES - FAHRENHEIT									
11 15	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	84.00	83.00	85.00	85.00	84.00	87.00
	B12-B22	88.00	88.00	89.00	85.00	84.00	84.00	86.00	84.00	87.00	87.00	87.00
	B23-B24	82.00	-0.00									
11 20	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	83.00	82.00	85.00	85.00	83.00	87.00
	B12-B22	88.00	88.00	88.00	84.00	83.00	83.00	85.00	84.00	87.00	87.00	87.00
	B23-B24	91.00	-0.00									
11 30	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	82.00	82.00	84.00	84.00	83.00	86.00
	B12-B22	88.00	87.00	88.00	83.00	83.00	83.00	85.00	83.00	87.00	87.00	87.00
	B23-B24	101.00	-0.00									
11 40	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	82.00	82.00	85.00	85.00	84.00	87.00
	B12-B22	88.00	88.00	88.00	83.00	83.00	83.00	85.00	83.00	86.00	86.00	87.00
	B23-B24	106.00	-0.00									
11 50	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	82.00	82.00	85.00	84.00	86.00	88.00
	B12-B22	89.00	88.00	89.00	83.00	84.00	82.00	84.00	82.00	87.00	87.00	88.00
	B23-B24	109.00	-0.00									
12 0	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	83.00	83.00	86.00	86.00	87.00	88.00
	B12-B22	90.00	89.00	90.00	84.00	85.00	82.00	84.00	83.00	87.00	88.00	89.00
	B23-B24	111.00	-0.00									
12 10	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	84.00	84.00	86.00	86.00	89.00	90.00
	B12-B22	92.00	90.00	91.00	84.00	86.00	84.00	84.00	84.00	88.00	88.00	90.00
	B23-B24	114.00	-0.00									
12 20	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	84.00	85.00	87.00	87.00	90.00	90.00
	B12-B22	93.00	91.00	93.00	86.00	88.00	84.00	84.00	84.00	89.00	89.00	91.00
	B23-B24	116.00	-0.00									
12 30	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	85.00	86.00	88.00	88.00	91.00	91.00
	B12-B22	94.00	92.00	94.00	87.00	90.00	85.00	85.00	84.00	90.00	90.00	93.00
	B23-B24	118.00	-0.00									
12 40	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	86.00	87.00	89.00	88.00	93.00	91.00
	B12-B22	96.00	92.00	96.00	88.00	90.00	85.00	85.00	85.00	90.00	90.00	94.00
	B23-B24	120.00	-0.00									
12 50	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	87.00	88.00	91.00	90.00	94.00	92.00
	B12-B22	98.00	93.00	98.00	89.00	92.00	86.00	86.00	85.00	91.00	91.00	96.00
	B23-B24	122.00	-0.00									
13 0	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	88.00	89.00	92.00	90.00	95.00	93.00
	B12-B22	99.00	94.00	99.00	90.00	93.00	87.00	87.00	87.00	92.00	92.00	98.00
	B23-B24	124.00	-0.00									
13 10	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	88.00	89.00	93.00	92.00	96.00	93.00
	B12-B22	101.00	95.00	101.00	91.00	94.00	88.00	88.00	87.00	92.00	92.00	100.00
	B23-B24	126.00	-0.00									

APOLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-8 (1-21-65)
 TEST POINT NO. 2, SOLAR ON, HOT LUNAR SURFACE,
 THERMA. DUMMY HEATERS OFF, FACING SOLAR

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT										
13 20	B11-B11	9999.00	9999.00	78.00	9999.00	9999.00	89.00	90.00	94.00	93.00	98.00	95.00
	B12-B22	102.00	95.00	102.00	92.00	95.00	89.00	89.00	88.00	93.00	93.00	101.00
	B23-B24	127.00	-0.00									
13 30	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	90.00	91.00	95.00	94.00	100.00	96.00
	B12-B22	104.00	95.00	104.00	93.00	97.00	90.00	90.00	88.00	94.00	94.00	103.00
	B23-B24	128.00	-0.00									
13 40	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	91.00	91.00	96.00	95.00	100.00	96.00
	B12-B22	105.00	97.00	105.00	94.00	98.00	90.00	90.00	89.00	95.00	95.00	104.00
	B23-B24	130.00	-0.00									
13 50	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	91.00	92.00	97.00	96.00	101.00	97.00
	B12-B22	107.00	98.00	106.00	95.00	99.00	91.00	91.00	90.00	96.00	96.00	106.00
	B23-B24	131.00	-0.00									
14 0	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	92.00	93.00	98.00	97.00	103.00	97.00
	B12-B22	108.00	98.00	107.00	96.00	101.00	92.00	92.00	90.00	96.00	96.00	107.00
	B23-B24	132.00	-0.00									
14 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	93.00	94.00	100.00	98.00	103.00	98.00
	B12-B22	109.00	99.00	109.00	97.00	101.00	93.00	92.00	91.00	97.00	97.00	108.00
	B23-B24	133.00	-0.00									
14 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	94.00	94.00	100.00	99.00	105.00	99.00
	B12-B22	111.00	100.00	110.00	99.00	102.00	93.00	94.00	92.00	98.00	98.00	110.00
	B23-B24	135.00	-0.00									
14 30	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	94.00	95.00	101.00	100.00	105.00	100.00
	B12-B22	112.00	100.00	112.00	99.00	103.00	94.00	94.00	92.00	99.00	99.00	111.00
	B23-B24	136.00	-0.00									
14 33	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	94.00	95.00	101.00	100.00	106.00	100.00
	B12-B22	113.00	101.00	113.00	100.00	104.00	94.00	95.00	93.00	99.00	99.00	112.00
	B23-B24	136.00	-0.00									

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. II-B (11-21-65)
 TEST POINT NO. 3, SOAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

14	30	2-12	9999.00	109.58	142.61	101.47	95.87	102.76	95.87	95.87	99.75	95.87	211.76
		13-23	103.61	95.87	116.77	120.13	112.13	114.24	133.53	137.67	108.73	108.31	9999.00
		24-29	9999.00	109.58	88.49	88.19	88.49	88.93	9999.00	86.74	9999.00	237.27	96.30
14	30	31-41	76.65	77.95	95.44	94.57	245.91	249.65	113.40	-250.14	9999.00	158.11	110.43
		42-52	110.01	124.35	107.45	95.44	94.57	112.13	113.40	9999.00	9999.00	158.11	110.43
		53-59	123.10	119.87	9999.00	121.42	119.29	121.42	114.66	169.78	174.17	9999.00	156.49
14	30	61-71	82.35	149.16	88.49	99.32	128.95	158.51	117.19	40.42	136.01	96.74	102.76
		72-82	133.53	91.10	96.30	98.46	9999.00	9999.00	218.28	218.28	218.28	218.28	218.28
		83-89	254.85	9999.00	202.43	133.53	9999.00	233.50	169.38	217.90	215.22	214.07	224.01
14	30	91-101	133.11	74.41	97.60	232.74	231.99	9999.00	218.67	214.83	208.29	212.14	217.90
		102-112	9999.00	219.57	224.39	230.85	229.71	206.74	210.99	0.00	0.00	0.00	0.00
		113-120	222.49	210.99	110.43	117.19	188.87	149.98	149.98	96.30	100.18	96.30	209.45
14	33	2-12	9999.00	110.01	143.02	101.90	96.30	102.76	95.44	137.67	107.03	106.18	9999.00
		13-23	103.61	95.87	117.19	120.13	112.55	114.66	133.53	137.67	107.03	106.18	9999.00
		24-29	9999.00	103.31	88.93	88.49	88.49	88.93	94.57	86.74	9999.00	233.88	96.30
14	33	31-41	77.07	77.95	94.57	94.57	246.66	249.27	113.82	88.93	154.86	158.92	110.86
		42-52	110.43	124.77	107.89	95.37	94.57	112.55	113.82	170.18	174.97	98.89	156.49
		53-59	123.52	119.29	105.75	121.42	119.29	121.84	115.09	15.48	58.73	26.87	38.57
14	33	61-71	82.80	149.16	88.49	99.75	129.37	158.92	116.77	200.93	201.31	203.26	9999.00
		72-82	133.94	91.10	96.30	98.46	9999.00	9999.00	143.84	126.86	127.70	128.53	133.11
		83-89	128.53	53.28	72.19	33.44	9999.00	223.63	145.89	0.00	0.00	0.00	0.00
14	33	91-101	77.07	9999.00	21.67	105.75	58.73	9999.00	203.26	200.93	201.31	203.26	9999.00
		102-112	203.25	187.24	174.57	145.17	151.20	133.53	125.61	126.86	127.70	128.53	133.11
		113-120	183.29	120.13	110.43	117.19	81.48	149.98	149.98	0.00	0.00	0.00	0.00
14	35	2-12	9999.00	110.43	143.43	101.90	96.30	103.19	95.87	96.30	100.18	96.30	46.88
		13-23	103.61	95.87	117.19	121.70	112.55	114.66	113.40	118.45	-10.34	-19.34	9999.00
		24-29	9999.00	-15.92	88.93	88.49	88.49	88.93	-21.35	86.74	9999.00	223.63	96.30
14	35	31-41	77.07	77.51	95.01	95.11	240.66	244.41	113.82	88.93	154.86	158.92	110.86
		42-52	110.43	124.35	108.51	96.30	95.01	112.97	113.82	169.78	174.17	98.03	153.65
		53-59	122.25	118.45	105.75	121.70	118.45	121.42	115.09	-22.36	-21.35	-55.60	-33.07
14	35	61-71	82.35	149.16	88.05	99.32	128.12	158.51	117.19	183.69	185.27	188.42	159.32
		72-82	133.94	91.10	96.30	98.46	9999.00	9999.00	72.63	96.74	97.60	96.30	108.31
		83-89	50.03	-7.86	-14.32	-45.11	9999.00	215.98	111.70	0.00	0.00	0.00	0.00
14	35	91-101	35.73	-62.05	-51.87	23.57	-23.88	9999.00	186.06	183.69	185.27	188.42	159.32
		102-112	184.43	169.78	154.45	117.51	126.45	102.76	104.04	96.74	97.60	96.30	108.31
		113-120	164.56	88.93	110.43	117.19	25.46	149.98	149.98	0.00	0.00	0.00	0.00
14	37	2-12	9999.00	110.86	143.43	102.33	96.30	102.76	96.30	96.74	100.18	96.74	-6.88
		13-23	104.04	95.87	117.61	121.42	112.55	115.09	98.89	104.04	-64.27	-71.84	9999.00
		24-29	9999.00	-67.49	88.93	88.49	88.49	88.93	-67.49	86.74	9999.00	217.90	96.74
14	37	31-41	82.35	82.36	96.74	95.30	235.01	238.78	114.24	88.93	154.86	159.32	110.86
		42-52	110.43	123.52	108.51	96.30	95.44	112.97	114.66	167.71	172.17	96.30	149.16
		53-59	119.29	116.77	105.75	119.71	116.77	120.13	114.66	-39.79	-55.60	-91.38	-65.34
14	37	61-71	82.35	149.35	88.49	99.46	124.77	157.30	116.77	171.38	173.77	176.95	145.89
		72-82	132.70	91.10	95.44	98.33	9999.00	210.60	86.74	83.68	84.12	82.80	95.44
		83-89	16.91	-33.58	-48.17	-77.33	9999.00	210.60	173.37	171.38	173.77	176.95	145.89
14	37	91-101	20.72	-91.95	-84.02	-13.32	-55.60	9999.00	91.04	83.68	84.12	82.80	95.44
		102-112	165.77	157.30	141.38	104.14	113.40	82.80	91.04	83.68	84.12	82.80	95.44
		113-120	152.02	75.74	110.43	116.77	0.00	149.98	149.98	0.00	0.00	0.00	0.00

A30-LJ EXTRAVENICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-8 (1-21-65)
 TEST POINT NO. 3, SOLAR OFF, L/JNAR OFF,
 THERMAL DUMMY HEATERS OFF

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT											
14 39	2- 12	9999.00	111.28	143.02	102.33	96.74	102.33	96.74	100.18	96.74	100.18	96.74	-31.01
	13- 23	104.04	95.44	118.03	121.94	112.97	115.93	88.49	93.71	-89.67	-95.96	9999.00	
	24- 29	9999.00	-92.52	88.93	88.49	88.49	88.93						
	31- 41	82.80	82.36	97.17	96.74	229.33	232.74	-90.24	86.74	9999.00	212.53	96.74	
	42- 52	110.85	123.10	108.73	96.30	95.44	112.97	114.66	88.93	154.05	158.92	110.86	
	53- 59	117.61	115.09	105.75	118.30	115.51	118.45	113.82	165.77	170.18	95.44	145.07	
	51- 71	82.35	147.12	88.05	97.60	121.42	155.68	115.93	-49.75	-74.57	-112.33	-82.90	
	72- 82	130.62	90.23	94.57	97.17	9999.00	9999.00	13.56	160.53	163.36	166.97	135.18	
	93- 89	-2.94	-49.17	-67.49	-94.23	9999.00	204.81	67.73	73.52	73.97	72.63	85.43	
	91-101	11.15	-110.55	-101.75	-35.13	-72.93	9999.00	162.15	0.00				
	102-112	148.35	145.89	131.03	93.71	102.33	67.73	70.41					
	113-120	140.55	65.49	110.43	115.93	-17.33	149.98	149.98					
14 41	2- 12	9999.00	111.28	142.61	102.76	96.74	102.33	96.74	100.61	96.74	100.61	96.74	-48.69
	13- 23	104.04	95.44	118.45	121.94	112.97	116.77	81.04	85.43	-106.43	-113.52	9999.00	
	24- 29	9999.00	-110.55	88.93	88.49	88.49	88.93						
	31- 41	82.80	82.36	95.44	95.97	223.63	227.06	9999.00	86.74	9999.00	207.13	97.17	
	42- 52	110.43	122.26	108.31	96.30	95.44	112.97	114.66	88.93	154.05	158.92	110.43	
	53- 59	115.51	113.40	105.75	116.77	113.82	117.19	112.97	163.76	167.77	93.27	140.55	
	51- 71	81.04	145.07	88.05	96.74	118.03	134.05	115.09	-56.67	-86.27	-125.57	-94.81	
	72- 82	128.12	89.80	93.27	96.74	9999.00	9999.00	52.82	151.20	153.65	157.30	126.03	
	93- 89	-16.82	-59.35	-78.99	-105.84	9999.00	199.37	52.82	64.59	65.49	64.59	77.07	
	91-101	7.30	-121.93	-115.91	-51.87	-98.84	9999.00	152.02	0.00				
	102-112	140.95	137.25	121.84	84.56	92.41	58.73	61.89					
	113-120	130.62	57.37	110.01	115.99	-28.46	149.98	149.98					
14 43	2- 12	9999.00	111.70	141.79	102.76	96.74	103.19	96.74	100.61	96.74	100.61	96.74	-62.05
	13- 23	103.61	95.87	118.45	122.58	113.40	116.77	88.49	92.41	-120.72	-125.57	9999.00	
	24- 29	9999.00	-121.93	88.93	88.49	88.49	88.93						
	31- 41	78.84	79.28	95.87	95.97	217.52	219.81	-117.71	86.74	9999.00	200.93	97.17	
	42- 52	110.43	121.42	108.73	96.74	95.44	113.40	114.66	89.36	153.24	158.11	110.43	
	53- 59	113.62	112.13	105.75	115.51	112.55	115.93	112.13	161.34	165.77	92.41	137.25	
	51- 71	80.60	142.20	88.05	95.44	115.09	151.61	114.24	-61.51	-95.96	-135.43	-103.50	
	72- 82	124.77	89.36	92.41	95.71	9999.00	9999.00	37.64	141.38	144.25	147.94	116.35	
	93- 89	-27.44	-67.49	-88.53	-114.72	9999.00	193.12	57.64	56.01	57.37	56.01	69.52	
	91-101	-2.94	-131.71	-126.19	-64.27	-94.23	9999.00	141.79	0.00				
	102-112	128.53	127.70	112.55	75.30	82.36	48.71	53.28					
	113-120	121.01	9999.00	110.43	113.82	-38.23	149.98	149.98					
14 45	2- 12	9999.00	111.28	140.55	103.19	97.17	103.61	96.74	100.61	97.17	100.61	96.74	-72.38
	13- 23	104.04	96.30	118.87	123.10	113.40	116.77	89.36	92.84	-130.48	-134.81	9999.00	
	24- 29	9999.00	-131.09	88.93	88.49	88.49	88.93						
	31- 41	77.95	78.54	95.87	95.87	210.60	212.14	-126.80	86.74	9999.00	193.91	97.17	
	42- 52	110.43	120.13	108.73	96.74	95.87	113.82	114.66	89.36	152.43	157.70	110.01	
	53- 59	112.13	110.43	105.75	113.82	111.28	114.24	110.86	158.92	163.36	90.67	133.94	
	51- 71	79.23	138.90	87.62	94.57	112.13	149.16	112.97	-65.34	-104.08	-143.58	-111.15	
	72- 82	122.25	89.93	91.10	94.57	9999.00	9999.00	-32.04	133.11	135.60	139.32	107.88	
	93- 89	-36.15	-75.12	-95.95	-121.32	9999.00	187.24	24.99	48.71	50.08	48.25	61.89	
	91-101	-8.85	-137.92	-133.56	-73.48	-101.75	9999.00	133.53	0.00				
	102-112	119.71	119.29	104.47	66.83	73.08	40.42	45.50					
	113-120	112.13	42.27	110.43	112.52	-45.01	149.98	149.98					

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A30-LD EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-B (1-21-65)
 TEST POINT NO. 3, SO. AR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT											
14 47	2-12	9999.00	111.28	138.90	103.19	96.74	103.61	96.74	97.17	101.04	97.60	97.60	-80.11
	13-23	9999.00	96.74	119.29	123.10	113.40	116.35	88.49	90.67	-137.92	-141.69	9999.00	
	24-29	9999.00	-137.92	88.93	88.49	88.49	88.93						
14 47	31-41	77.07	77.95	95.44	95.87	203.26	204.03	-132.95	86.74	9999.00	187.63	97.60	
	42-52	110.43	118.87	108.73	95.30	95.87	113.82	114.24	89.36	151.61	157.30	109.58	
	53-59	110.43	108.73	105.32	112.55	109.58	112.55	110.01	156.49	161.34	89.36	130.62	
14 47	51-71	178.47	135.50	87.18	93.27	109.16	147.12	112.55	-68.03	-111.15	-148.04	-116.51	
	72-82	118.87	88.49	90.23	93.71	9999.00	9999.00	-41.35	124.77	127.70	131.45	100.18	
	83-89	-43.95	-80.56	-101.75	-126.18	9999.00	180.52	15.00	41.81	45.19	41.81	55.10	
14 47	91-101	-14.32	-143.58	-139.80	-81.78	-109.37	9999.00	125.19	0.00				
	102-112	111.70	111.70	96.74	59.18	63.69	32.98	38.57					
	113-120	104.04	35.78	110.43	111.28	-52.93	149.98	149.98					
14 49	2-12	9999.00	111.70	136.84	103.19	97.17	103.61	96.74	97.60	101.04	97.60	-85.71	
	13-23	104.04	96.74	119.71	123.52	113.40	116.35	86.74	89.36	-143.58	-146.12	9999.00	
	24-29	9999.00	-143.58	88.93	88.49	88.49	88.49						
14 49	31-41	76.19	77.07	95.44	95.44	196.25	196.25	-138.55	86.74	9999.00	180.92	97.60	
	42-52	110.01	118.03	108.73	95.30	95.87	113.82	109.16	89.36	150.80	156.49	109.16	
	53-59	109.15	107.46	105.32	111.28	108.31	110.86	109.16	154.05	158.92	88.05	128.12	
14 49	51-71	77.67	131.86	86.74	92.41	107.46	144.66	111.28	-70.75	-115.91	-153.18	-120.72	
	72-82	115.93	87.52	88.93	92.84	9999.00	9999.00	-49.22	117.61	120.58	123.94	92.84	
	83-89	-50.24	-85.71	-107.60	-129.36	9999.00	1/4.17	5.36	34.84	36.71	34.84	48.71	
14 49	91-101	-19.84	-145.76	9999.00	-87.40	-114.12	9999.00	117.61	0.00				
	102-112	107.83	104.47	90.23	52.47	55.55	25.93	52.04					
	113-120	96.74	29.23	110.01	110.11	-58.28	149.98	149.98					
14 51	2-12	9999.00	111.70	134.77	103.19	97.17	103.61	96.74	97.17	101.47	97.60	-91.38	
	13-23	103.61	96.74	120.13	123.74	113.40	116.35	85.43	88.05	-147.40	-150.60	9999.00	
	24-29	9999.00	-145.76	88.49	89.25	88.49	88.05						
14 51	31-41	75.74	75.19	95.01	95.44	189.60	188.42	-142.95	86.31	9999.00	174.17	9999.00	
	42-52	109.53	116.35	108.73	95.30	95.87	113.82	113.82	89.36	9999.00	155.68	108.73	
	53-59	9999.00	105.18	104.90	110.01	106.18	109.16	9999.00	152.02	156.89	87.18	125.61	
14 51	51-71	75.74	128.12	86.74	91.10	105.32	142.61	110.43	-72.93	-120.72	-157.08	-124.97	
	72-82	112.97	87.18	88.49	91.54	9999.00	9999.00	-57.20	111.28	113.82	116.77	86.74	
	83-89	-56.13	-90.24	-112.33	-132.95	9999.00	167.77	-3.92	29.23	31.10	29.23	43.19	
14 51	91-101	-24.69	-149.96	-147.40	-93.19	-118.91	9999.00	110.86	0.00				
	102-112	102.33	93.03	83.68	45.96	46.88	19.77	25.93					
	113-120	90.23	24.04	109.53	109.16	-62.59	149.98	149.98					
14 53	2-12	9999.00	111.70	132.29	103.19	97.60	103.61	96.74	97.60	101.47	98.03	-95.96	
	13-23	104.04	96.74	120.58	123.74	112.97	116.77	84.56	86.74	-150.60	-154.48	9999.00	
	24-29	9999.00	-149.96	88.49	87.52	88.49	88.05						
14 53	31-41	75.53	75.19	95.01	95.44	182.11	180.92	-146.12	86.31	9999.00	167.37	97.60	
	42-52	109.53	114.56	108.73	95.87	95.87	113.40	107.46	89.36	148.35	154.86	108.31	
	53-59	106.60	104.90	104.74	109.16	105.75	107.88	107.46	9999.00	154.86	9999.00	123.94	
14 53	51-71	74.41	124.35	85.87	90.47	104.04	140.55	109.58	-75.12	-124.36	-160.36	-127.41	
	72-82	110.43	85.74	87.62	90.57	9999.00	9999.00	-63.13	104.90	107.46	110.86	80.60	
	83-89	-60.43	-94.81	-115.91	-135.45	9999.00	161.34	-11.33	24.04	25.46	23.57	38.10	
14 53	91-101	-29.48	-153.18	-151.24	-97.69	-122.54	9999.00	104.47	104.90	107.46	110.86	80.60	
	102-112	95.87	91.97	77.95	39.49	39.03	14.52	20.25	24.04	25.46	23.57	38.10	
	113-120	84.12	19.82	109.53	109.31	-66.42	149.98	149.98	0.00				

A0.LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. II-B (1-21-65)
 TEST POINT NO. 3, SOLAR OFF, LUNAR OFF,
 THERMAL GUNNY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
14 55	2- 12	9999.00	111.28	130.20	103.19	97.60	103.61	96.74	97.60	101.47	98.03	-100.00	
	13- 23	103.61	96.74	120.59	124.35	112.97	116.35	83.68	85.43	-154.48	-157.08	9999.00	
	24- 29	9999.00	-153.18	88.05	87.52	88.05	87.62		85.87	9999.00	160.94	97.17	
14 55	31- 41	74.86	75.74	95.01	95.01	174.97	172.97	-149.32	89.36	147.12	154.05	107.46	
	42- 52	109.16	113.40	108.73	95.87	95.87	113.40	112.97					
	53- 59	105.73	104.04	104.04	107.98	104.47	106.60	106.18	147.53	152.43	85.43	121.84	
14 55	61- 71	73.52	120.58	85.43	89.80	102.33	138.49	108.73	-77.33	-127.41	-163.00	-130.48	
	72- 82	107.89	85.87	86.74	89.80	9999.00	9999.00	-68.58	99.32	101.90	104.90	74.86	
	83- 89	-64.27	-99.42	-118.91	-137.92	9999.00	154.86	-18.33	18.82	20.72	18.82	32.51	
14 55	91-101	-33.58	-155.13	-154.48	-102.33	-126.18	9999.00	98.46	0.00				
	102-112	89.80	85.31	72.63	33.91	31.57	8.75	15.48					
	113-120	78.40	14.04	109.58	107.46	-69.66	149.98	149.98					
14 57	2- 12	9999.00	111.28	127.70	103.19	97.60	103.61	96.74	97.60	101.47	98.03	-103.50	
	13- 23	103.61	96.74	121.00	124.77	113.40	116.35	82.36	84.56	-157.08	-160.36	9999.00	
	24- 29	9999.00	-154.48	88.05	87.18	88.05	87.18		85.87	9999.00	154.05	97.17	
14 57	31- 41	74.41	75.30	94.57	94.57	167.77	165.77	-152.53	89.36	146.30	153.24	107.03	
	42- 52	108.73	111.70	108.73	95.44	95.44	113.40	112.97					
	53- 59	104.47	102.76	104.04	107.98	103.61	105.32	105.32	145.07	150.80	84.56	120.13	
14 57	61- 71	71.74	116.77	84.99	88.93	101.04	136.43	107.46	-78.99	-131.09	-166.33	-132.95	
	72- 82	105.32	85.43	86.31	89.36	9999.00	9999.00	-73.48	93.71	96.30	98.89	69.96	
	83- 89	-68.03	-103.90	-121.93	-139.17	9999.00	148.35	-24.89	13.56	15.96	14.04	27.82	
14 57	91-101	-38.23	-157.73	-157.08	-105.84	-129.86	9999.00	92.84	0.00				
	102-112	84.12	81.04	67.73	28.76	24.99	3.90	10.20					
	113-120	73.03	9.23	109.16	105.18	-72.38	149.98	149.98					
14 59	2- 12	9999.00	111.28	125.19	103.19	97.60	103.61	96.74	97.60	101.90	98.46	-108.19	
	13- 23	103.61	97.17	121.00	124.77	112.97	116.35	81.48	83.68	-160.36	-163.00	9999.00	
	24- 29	9999.00	-155.78	88.05	86.74	88.05	87.18		85.43	9999.00	147.53	96.74	
14 59	31- 41	73.97	74.86	94.14	94.57	160.94	158.11	-154.48	89.36	145.07	152.43	106.60	
	42- 52	108.31	110.43	108.73	95.44	95.87	113.40	112.55					
	53- 59	103.61	101.90	103.61	105.18	102.33	104.47	104.47	143.02	148.35	84.12	118.45	
14 59	61- 71	70.41	113.40	84.95	88.49	99.75	134.36	106.60	-80.11	-133.56	-168.34	-134.81	
	72- 82	103.19	84.99	85.43	89.49	9999.00	9999.00	-78.44	88.93	91.10	93.27	65.04	
	83- 89	-71.29	-107.60	-124.35	-141.06	9999.00	142.20	-30.50	9.23	11.16	9.71	23.09	
14 59	91-101	-42.39	-159.70	-159.70	-110.55	-131.71	9999.00	88.05	0.00				
	102-112	79.72	76.19	62.79	24.04	18.82	-0.49	6.33					
	113-120	68.17	5.36	109.16	105.75	-75.12	149.98	149.98					
15 1	2- 12	9999.00	111.28	123.10	103.19	97.60	103.61	96.74	97.60	101.90	98.46	-111.74	
	13- 23	103.61	97.17	121.42	125.19	112.55	115.93	80.60	82.80	-162.34	-165.66	9999.00	
	24- 29	9999.00	-158.39	87.62	86.74	87.62	86.74		85.43	9999.00	141.38	97.17	
15 1	31- 41	73.97	74.41	94.14	94.14	154.05	151.20	-157.08	89.36	143.84	151.20	106.18	
	42- 52	108.31	108.73	9999.00	95.44	95.87	112.97	112.55					
	53- 59	102.75	100.61	103.19	105.18	101.47	103.61	104.04	140.55	146.30	83.24	117.19	
15 1	61- 71	69.07	110.01	84.12	87.52	98.89	132.28	105.75	-81.78	-136.05	-172.39	-137.30	
	72- 82	100.61	84.12	84.99	88.15	9999.00	9999.00	-81.78	84.12	86.31	89.36	60.54	
	83- 89	-73.49	-111.15	-126.80	-142.32	9999.00	136.43	-34.61	5.36	7.78	5.85	19.30	
15 1	91-101	-46.05	-161.58	-161.65	-113.52	-134.81	9999.00	82.80	84.12	86.31	89.36	60.54	
	102-112	74.85	71.74	58.73	19.77	13.56	-4.90	1.96					
	113-120	63.69	1.47	108.73	104.90	-76.78	149.98	149.98					

A20-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-B (1-21-65)
 TEST POINT NO. 3, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
		9999.00	9999.00	79.00	9999.00	9999.00	94.00	95.00	101.00	100.00	106.00	100.00	
14 33	B01-B11	113.00	101.00	113.00	100.00	104.00	94.00	95.00	93.00	99.00	106.00	100.00	
	B12-B22	136.00	-0.00								99.00	112.00	
	B23-B24												
14 40	B01-B11	9999.00	9999.00	78.00	9999.00	9999.00	95.00	96.00	102.00	101.00	106.00	100.00	
	B12-B22	114.00	101.00	114.00	100.00	104.00	95.00	95.00	94.00	99.00	99.00	113.00	
	B23-B24	121.00	-0.00										
14 50	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	97.00	102.00	102.00	107.00	100.00	
	B12-B22	115.00	101.00	114.00	101.00	105.00	96.00	96.00	94.00	100.00	100.00	114.00	
	B23-B24	110.00	-0.00										
15 0	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	96.00	102.00	102.00	106.00	100.00	
	B12-B22	115.00	101.00	114.00	102.00	105.00	97.00	97.00	95.00	100.00	100.00	114.00	
	B23-B24	107.00	-0.00										
15 3	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	96.00	101.00	102.00	105.00	100.00	
	B12-B22	115.00	101.00	115.00	102.00	105.00	96.00	96.00	95.00	100.00	100.00	114.00	
	B23-B24	105.00	-0.00										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-9 (1-21-65)
 TEST POINT NO. 4, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT													
15	1	9999.00	111.28	123.10	103.19	97.60	103.61	96.74	101.90	97.60	101.90	98.46	-111.74	98.46	9999.00
		103.61	97.17	121.42	125.19	112.55	115.93	80.60	162.34	86.74	101.90	-165.66	9999.00		
15	1	9999.00	-158.39	87.62	86.74	86.74									
		77.95	74.41	94.14	94.14	154.05	151.20	-157.08	9999.00	141.38	97.17	97.17	106.18		
		108.31	109.73	9999.00	95.11	95.87	112.97	104.04	143.84	151.20	106.18				
		102.75	100.51	103.19	105.32	101.47	103.61	104.04							
15	1	69.07	110.01	84.12	87.52	98.89	132.28	105.75	146.30	83.24	117.19				
		100.61	84.12	84.99	88.05	9999.00	9999.00	-81.78	-172.39	-137.30					
15	1	-73.48	-111.15	-126.80	-142.32	9999.00	136.43	-34.61							
		-46.05	-161.58	-161.68	-113.52	-134.81	9999.00	83.68							
		74.85	71.74	58.73	19.77	13.56	-4.90	1.96							
		63.69	1.47	108.73	104.90	-76.78	149.98	149.98							
15	4	9999.00	110.56	120.58	103.19	97.60	103.19	96.30	101.90	97.60	101.90	98.46	9999.00		
		103.61	97.17	121.42	125.61	112.55	115.93	84.56	-149.96	87.18	-148.68	9999.00			
		9999.00	-142.32	88.93	86.31	87.62	86.74								
15	4	73.52	73.97	94.57	94.14	148.35	145.07	-122.54	9999.00	140.55	96.74				
		107.88	107.98	108.31	94.57	95.87	112.97	112.13	88.93	9999.00	149.57	105.32			
		101.90	100.18	102.76	104.47	101.04	102.76	103.19							
15	4	67.29	107.03	84.12	87.18	97.60	130.62	105.32	144.25	138.49	144.25	82.80	115.93		
		98.89	83.68	84.56	87.52	9999.00	9999.00	93.71	-49.22	-49.22	7.30	-46.06	-24.39		
		166.57	-20.34	130.62	54.19	9999.00	143.84	-4.90							
15	4	32.51	-42.39	-25.91	149.16	153.24	9999.00	100.61	102.33	102.33	100.61	100.18	123.10		
		110.01	109.16	132.28	158.92	154.05	130.20	134.36	141.38	141.38	133.53	136.84	144.66		
		124.77	139.32	108.73	104.90	113.40	9999.00	9999.00	9999.00	9999.00					
15	6	9999.00	110.43	118.03	103.19	97.60	103.19	96.30	101.90	97.60	101.90	98.46	155.68		
		103.61	97.17	121.84	125.61	112.55	115.51	103.19	35.78	104.90	35.78	49.17	9999.00		
		9999.00	48.25	87.18	85.87	87.18	85.87								
15	6	73.52	73.97	94.14	93.71	147.53	143.84	59.18	9999.00	84.99	9999.00	147.94	96.74		
		107.45	107.03	108.31	94.14	95.87	112.55	111.70	88.93	88.93	141.38	149.16	105.32		
		101.90	99.75	102.33	104.04	100.18	101.90	102.76							
15	6	65.94	104.04	83.24	85.74	98.03	129.37	104.47	143.43	137.25	143.43	82.80	115.51		
		96.74	83.24	84.12	87.18	9999.00	9999.00	162.15	0.00	0.00	109.16	71.30	74.41		
		224.01	66.83	186.45	112.55	9999.00	149.57	43.19							
15	6	91.10	47.79	72.19	207.13	221.72	9999.00	117.19	118.87	118.87	115.93	113.82	143.02		
		121.00	127.70	151.61	183.29	177.35	158.92	162.15	167.37	167.37	160.53	164.56	166.97		
		141.79	165.17	108.73	103.61	161.34	9999.00	9999.00	9999.00	9999.00					
15	8	9999.00	110.43	115.93	103.19	97.60	103.19	96.30	101.90	97.60	101.90	98.46	190.77		
		103.19	97.17	121.84	125.61	112.55	115.51	113.40	91.97	115.09	91.97	96.30	9999.00		
		9999.00	97.17	86.74	85.43	87.18	85.87								
15	8	73.08	73.52	94.14	93.71	148.76	144.66	98.46	9999.00	84.56	9999.00	150.80	96.74		
		107.03	105.18	108.31	93.71	95.87	112.55	111.28	88.93	88.93	140.55	148.76	104.47		
		103.61	100.51	101.90	104.47	101.04	102.33	102.33							
15	8	65.04	101.47	83.24	86.74	101.04	128.12	104.47	143.84	137.25	143.84	83.68	118.87		
		95.01	82.36	84.56	86.74	9999.00	9999.00	184.87	20.72	20.72	128.53	91.10	94.57		
		239.53	87.52	197.03	123.94	9999.00	152.43	79.72							
15	8	104.90	66.83	91.10	222.49	228.58	9999.00	130.62	131.86	131.86	128.12	125.19	154.86		
		134.77	140.14	162.15	191.56	184.87	167.77	170.98	175.36	175.36	169.38	173.77	174.97		
		152.83	174.97	108.31	103.61	176.95	9999.00	9999.00	9999.00	9999.00					

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-9 (1-21-65)
 TEST POINT NO. 4, SOLAR ON, HOT LUNAR SURFACE,
 THERMA-DUMMY HEATERS OFF, FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
15	18	2-12	9999.00	108.73	111.70	103.19	97.17	102.76	95.44	97.60	101.90	98.46	213.30
		13-23	103.19	97.17	122.26	126.45	112.13	114.66	126.03	130.62	115.51	115.51	9999.00
		24-29	9999.00	117.61	85.43	84.56	86.31	84.56					
15	18	31-41	74.41	74.96	93.71	93.27	166.17	164.56	117.19	83.68	9999.00	165.77	95.87
		42-52	107.03	106.60	108.31	92.41	95.44	111.70	110.86	88.49	139.32	147.12	104.90
		53-59	111.70	109.31	101.04	110.43	108.31	108.73	105.32				
15	18	61-71	64.59	104.90	83.24	92.41	117.61	132.70	107.03	141.38	148.76	91.97	138.90
		72-82	103.61	83.68	90.23	91.97	9999.00	9999.00	215.98	39.03	143.02	105.32	110.01
		83-89	257.45	9999.00	208.29	135.18	9999.00	168.18	152.02				
15	18	91-101	121.42	81.92	106.18	235.14	237.27	9999.00	173.37	172.57	168.98	166.17	188.81
		102-112	177.35	179.54	191.95	211.76	207.90	186.84	192.34	196.25	189.60	194.30	196.64
		113-120	186.05	194.59	9999.00	107.93	192.34	9999.00	9999.00	9999.00			
15	20	2-12	9999.00	108.73	112.13	103.19	97.17	102.76	95.44	97.60	101.90	98.46	214.83
		13-23	103.19	97.17	122.26	126.45	112.13	114.66	127.28	131.86	117.19	117.19	9999.00
		24-29	9999.00	118.87	85.43	84.56	86.74	84.99					
15	20	31-41	74.85	75.74	93.71	93.27	172.97	170.18	118.45	83.68	9999.00	169.78	95.87
		42-52	107.03	107.03	108.73	91.97	95.44	111.28	110.86	88.49	139.32	147.12	105.32
		53-59	112.97	109.58	101.04	111.70	109.16	110.43	106.18				
15	20	61-71	64.59	107.03	83.69	92.94	118.87	133.94	107.46	142.20	149.57	92.84	140.96
		72-82	106.18	84.12	91.10	92.41	9999.00	9999.00	218.28	40.42	143.84	106.18	110.86
		83-89	258.29	9999.00	208.67	136.71	9999.00	171.78	157.70				
15	20	91-101	123.10	82.90	107.03	237.27	238.40	9999.00	178.94	178.15	174.17	171.78	193.12
		102-112	180.52	183.29	195.86	214.45	210.60	189.60	195.08	199.37	192.34	197.03	199.37
		113-120	190.77	197.03	107.46	108.31	193.12	9999.00	9999.00	9999.00			
15	22	2-12	9999.00	109.31	112.55	103.19	97.17	102.76	95.44	97.60	102.33	98.46	215.98
		13-23	103.61	97.17	122.26	126.45	112.13	114.66	128.12	132.70	118.45	118.45	9999.00
		24-29	9999.00	120.58	85.43	84.56	86.31	84.99					
15	22	31-41	75.30	75.74	93.71	93.27	178.15	175.36	119.71	83.68	9999.00	174.17	95.87
		42-52	107.03	107.46	108.31	91.97	95.44	111.28	110.86	88.49	139.32	147.12	105.75
		53-59	113.82	110.01	101.47	112.55	110.43	111.70	107.03				
15	22	61-71	64.59	109.58	84.12	93.71	120.58	135.60	108.31	143.02	150.80	93.71	142.61
		72-82	108.73	84.56	92.41	93.71	9999.00	9999.00	220.58	42.73	145.48	107.88	112.13
		83-89	260.05	111.70	209.83	137.25	9999.00	175.76	162.15				
15	22	91-101	123.52	82.36	106.18	237.27	237.27	9999.00	183.69	182.50	179.34	176.56	196.25
		102-112	185.27	187.24	198.59	215.22	211.76	189.99	195.47	199.37	192.73	197.03	200.15
		113-120	193.52	197.03	108.31	109.58	9999.00	9999.00	9999.00	9999.00			
15	24	2-12	9999.00	109.31	113.82	103.19	97.17	102.76	95.44	97.17	102.33	98.46	211.37
		13-23	103.19	96.74	122.26	126.45	111.70	114.24	128.12	133.11	109.58	108.73	9999.00
		24-29	9999.00	110.01	85.43	84.99	86.31	84.99					
15	24	31-41	75.74	76.63	94.14	93.27	182.50	180.52	109.16	83.68	9999.00	176.16	95.87
		42-52	107.03	109.31	108.73	91.54	95.44	111.28	111.28	88.05	139.73	146.71	105.75
		53-59	114.65	111.70	101.47	113.92	111.28	112.97	107.46				
15	24	61-71	64.59	112.55	84.56	94.57	122.26	136.84	109.16	143.84	151.61	9999.00	144.25
		72-82	111.29	84.99	93.27	94.57	9999.00	9999.00	214.83	37.64	132.28	94.57	100.18
		83-89	253.74	101.47	201.31	131.93	9999.00	177.75	160.13				
15	24	91-101	115.93	72.19	95.44	231.61	231.61	9999.00	186.45	185.27	182.11	9999.00	197.81
		102-112	188.81	188.81	199.37	213.58	210.99	187.63	193.91	197.81	190.77	195.47	199.37
		113-120	195.47	195.08	9999.00	110.45	186.84	9999.00	9999.00	9999.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-9 (1-21-65)
 TEST POINT NO. 4, SOLAR ON, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, FACING SOLAR

TIME	C CHANNELS	TEMPERATURES - FAHRENHEIT											
15 26	2-12	9999.00	108.31	114.65	103.61	97.17	103.19	95.44	97.17	102.33	98.46	208.67	
	13-23	104.04	96.74	122.26	126.45	112.13	114.24	128.12	132.70	104.47	104.04	9999.00	
15 26	24-29	9999.00	105.75	85.43	84.99	86.31	84.99		83.68	9999.00	179.73	95.87	
	31-41	76.63	76.63	94.14	93.27	187.24	185.27	105.75	88.05	139.73	147.12	106.18	
15 26	42-52	107.45	108.73	108.31	91.10	95.44	111.28	111.28	145.07	152.43	95.01	145.48	
	53-59	115.51	112.13	101.90	114.66	112.55	113.82	108.31	37.17	130.62	93.27	98.89	
15 26	61-71	65.04	115.09	84.56	95.44	123.10	138.08	109.58	188.02	184.87	182.90	199.76	
	72-82	113.40	85.43	93.71	95.01	9999.00	9999.00	214.83	191.95	191.95	196.64	200.54	
15 26	83-89	253.74	100.61	201.31	150.62	9999.00	180.92	159.73	9999.00	9999.00	9999.00	9999.00	
	91-101	115.93	70.85	94.14	231.61	231.61	9999.00	189.60	188.02	184.87	182.90	199.76	
15 26	102-112	191.17	191.56	200.93	214.83	212.14	188.81	195.08	198.98	191.95	196.64	200.54	
	113-120	197.81	196.25	108.31	110.86	186.45	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	
15 28	2-12	9999.00	108.31	115.93	103.61	97.17	103.19	95.44	97.17	102.33	98.46	208.67	
	13-23	104.04	96.74	122.26	126.45	112.13	114.24	128.12	133.11	104.47	104.04	9999.00	
15 28	24-29	9999.00	105.75	85.43	84.99	86.31	85.43		83.68	9999.00	183.29	95.87	
	31-41	77.07	77.51	94.57	93.71	191.17	189.60	105.75	88.05	140.14	147.53	106.60	
15 28	42-52	107.45	109.16	108.31	90.67	95.44	111.28	111.28	145.48	153.24	95.44	145.89	
	53-59	116.35	112.97	101.90	115.09	112.97	114.66	108.73	38.10	131.03	93.27	99.32	
15 28	61-71	65.49	117.51	84.56	95.44	123.52	138.90	110.01	145.48	153.24	95.44	145.89	
	72-82	115.09	85.87	94.14	95.44	9999.00	9999.00	214.83	145.48	153.24	95.44	145.89	
15 28	83-89	253.37	101.04	201.31	151.03	9999.00	184.08	160.53	190.77	187.63	185.66	202.09	
	91-101	117.19	71.30	94.57	231.61	231.61	9999.00	191.95	190.77	187.63	185.66	202.09	
15 28	102-112	193.91	193.91	203.26	216.37	214.07	189.99	196.64	200.54	193.52	198.59	202.09	
	113-120	200.15	197.81	108.73	111.73	186.84	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	
15 30	2-12	9999.00	107.88	117.19	103.61	97.17	103.19	95.44	97.17	102.33	98.46	209.06	
	13-23	104.04	96.74	122.26	126.45	112.55	114.66	128.53	133.53	104.47	104.47	9999.00	
15 30	24-29	9999.00	105.18	85.43	84.99	86.31	85.43		83.68	9999.00	186.84	95.87	
	31-41	77.51	77.95	94.57	93.71	195.08	193.91	106.18	88.05	140.14	147.53	106.60	
15 30	42-52	107.88	109.58	108.31	90.23	95.44	111.28	111.70	146.30	154.05	95.44	146.71	
	53-59	116.77	113.40	102.33	115.51	113.40	115.51	109.58	39.49	131.86	94.14	99.75	
15 30	61-71	65.94	120.13	84.99	96.30	124.35	140.14	110.43	146.30	154.05	95.44	146.71	
	72-82	116.77	85.31	94.14	95.87	9999.00	9999.00	215.60	39.49	131.86	94.14	99.75	
15 30	83-89	254.12	101.90	201.70	131.36	9999.00	187.63	161.34	193.12	189.99	188.02	204.03	
	91-101	118.45	71.74	94.57	231.99	231.99	9999.00	194.69	202.09	194.69	200.15	203.26	
15 30	102-112	195.85	196.25	205.58	217.90	215.22	191.56	198.20	202.09	194.69	200.15	203.26	
	113-120	202.09	199.98	108.73	112.13	187.24	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EX5, 11-9 (1-21-65)
 TEST POINT NO. 4, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, FACING SOLAR

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
15 3	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	96.00	101.00	102.00	105.00	100.00
	B12-B22	115.00	101.00	115.00	102.00	105.00	96.00	96.00	95.00	100.00	100.00	114.00
	B23-B24	105.00	-0.00									
15 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	96.00	102.00	102.00	105.00	100.00
	B12-B22	114.00	101.00	114.00	101.00	104.00	97.00	97.00	95.00	100.00	100.00	114.00
	B23-B24	123.00	-0.00									
15 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	95.00	95.00	102.00	102.00	104.00	100.00
	B12-B22	113.00	100.00	113.00	101.00	103.00	96.00	97.00	95.00	99.00	99.00	113.00
	B23-B24	129.00	-0.00									
15 30	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	95.00	95.00	101.00	102.00	104.00	100.00
	B12-B22	113.00	101.00	113.00	101.00	102.00	97.00	97.00	95.00	99.00	99.00	113.00
	B23-B24	130.00	-0.00									
15 33	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	94.00	95.00	101.00	102.00	104.00	100.00
	B12-B22	113.00	101.00	113.00	101.00	102.00	96.00	97.00	95.00	100.00	99.00	113.00
	B23-B24	131.00	-0.00									

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 3-3414, EXS. 11-3 (1-21-65)
 TEST POINT NO. 5, SOLAR ON, 40T LUNAR SURFACE,
 THERYA - DUMMY THERISTERS OFF, BACK FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT														
15	30	9999.00	107.98	117.19	103.61	97.17	103.19	95.44	97.17	102.33	98.46	209.06				
	15-23	104.04	96.74	122.25	126.86	112.55	114.66	128.53	133.53	104.47	104.47	9999.00				
15	30	9999.00	105.18	85.43	89.99	86.31	85.43									
	15-23	77.51	77.95	94.57	93.71	195.08	193.91	106.18	83.68	9999.00	186.84	9999.00				
	42-52	107.83	109.28	108.31	90.23	95.44	111.28	111.70	88.05	140.14	147.53	106.60				
15	30	116.77	113.40	102.33	115.51	113.40	115.51	109.58								
	15-23	65.94	120.13	84.99	95.30	124.35	140.14	110.43	146.30	154.05	95.44	146.71				
	42-52	116.77	85.31	94.14	95.87	9999.00	9999.00	215.60	39.49	131.86	94.14	99.75				
15	30	254.12	101.90	201.70	151.86	9999.00	187.63	161.34								
	15-23	118.45	71.74	94.57	231.99	231.99	9999.00	194.69	193.12	189.99	188.02	203.26				
	42-52	195.85	195.25	205.59	217.90	215.22	191.56	198.20	202.09	194.69	200.15	203.26				
	113-120	202.09	198.98	108.73	112.55	187.24	9999.00	9999.00	9999.00							
15	32	9999.00	107.88	118.45	103.61	96.74	103.19	95.44	97.17	102.33	98.46	209.45				
	15-23	104.04	96.74	122.68	126.86	112.55	114.66	128.53	133.53	104.90	104.90	9999.00				
15	32	9999.00	105.18	85.43	89.99	86.31	85.87									
	15-23	77.95	77.95	94.57	94.14	198.98	198.20	106.18	84.12	9999.00	190.38	95.87				
	42-52	108.31	110.43	107.83	90.67	95.44	111.28	111.70	88.05	140.55	147.94	107.03				
15	32	117.19	113.82	102.75	115.35	113.82	115.93	109.58								
	15-23	65.94	122.26	84.99	95.80	124.77	140.96	111.28	147.12	154.86	95.87	147.53				
	42-52	118.03	86.74	94.57	96.80	9999.00	9999.00	216.37	40.88	131.86	94.14	99.75				
15	32	254.49	192.33	202.09	152.28	9999.00	190.77	162.15								
	15-23	119.71	71.74	95.01	232.37	232.37	9999.00	196.25	195.47	192.34	189.99	205.97				
	42-52	198.59	198.20	207.13	219.43	217.14	193.12	199.37	203.26	195.86	200.93	204.81				
	113-120	204.03	200.54	108.73	112.55	176.16	9999.00	9999.00	9999.00							
15	34	9999.00	107.88	119.71	104.04	97.17	103.19	95.44	97.17	102.33	98.46	161.74				
	15-23	104.04	96.74	122.68	126.86	112.55	114.24	123.94	128.53	185.66	189.99	9999.00				
15	34	9999.00	191.17	85.43	85.43	86.31	85.87									
	15-23	78.40	79.40	94.14	94.14	202.87	202.87	191.95	84.12	9999.00	203.64	95.87				
	42-52	108.31	110.86	108.31	90.23	95.01	111.28	111.70	88.05	9999.00	147.94	107.46				
15	34	117.61	113.82	102.75	115.77	114.24	116.77	110.43								
	15-23	66.83	123.94	85.43	95.74	125.61	141.79	111.70	148.35	155.68	96.30	146.71				
	42-52	119.29	86.74	95.01	95.80	9999.00	9999.00	159.32	119.29	145.89	182.11	131.45				
15	34	155.27	204.81	115.51	62.84	9999.00	206.74	170.98								
	15-23	204.42	149.57	171.39	134.86	9999.00	9999.00	198.98	197.81	194.69	192.73	208.29				
	42-52	200.54	200.93	209.45	221.72	220.20	195.86	416.29	204.42	199.37	203.64	206.35				
	113-120	206.35	202.48	108.73	113.40	133.11	9999.00	9999.00	9999.00							
15	36	9999.00	107.88	121.00	104.04	97.17	103.19	95.44	97.17	102.33	98.46	119.29				
	15-23	104.04	97.17	122.68	126.86	112.97	114.24	112.97	117.61	206.74	207.90	9999.00				
15	36	9999.00	217.14	85.87	85.43	86.31	85.87									
	15-23	78.84	78.84	94.57	94.57	207.13	207.90	214.83	84.12	9999.00	207.90	95.87				
	42-52	108.31	111.28	108.31	90.23	92.41	111.28	111.70	88.05	141.38	148.35	107.46				
15	36	116.77	113.82	103.19	115.77	114.24	116.77	110.43								
	15-23	67.23	125.03	85.87	97.17	124.77	142.20	112.13	149.57	156.08	9999.00	145.48				
	42-52	121.84	87.18	95.44	97.17	9999.00	141.79	146.30	140.14	146.30	186.45	135.18				
15	36	138.90	215.60	106.60	52.37	9999.00	211.37	174.17								
	15-23	210.99	157.30	177.75	115.77	98.89	9999.00	201.31	200.15	196.64	194.69	210.22				
	42-52	202.87	202.48	210.99	222.97	220.96	197.03	417.29	205.97	200.54	204.81	207.51				
	113-120	208.29	204.03	108.73	113.40	125.19	9999.00	9999.00	9999.00							

APO-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-B (1-21-65)
 TEST PJNT NO. 5, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, BACK FACING SOLAR

TIME	CCHANNELS	TEMPERATURES - FAHRENHEIT										
15 38	2- 12	9999.00	107.88	122.26	104.04	97.17	103.19	95.44	97.17	102.33	98.46	111.70
	13- 23	104.04	97.17	122.68	126.96	112.97	114.66	107.88	111.70	209.45	209.45	9999.00
	24- 29	9999.00	219.05	85.87	85.43	86.74	86.31					
	31- 41	78.84	79.28	95.01	94.57	211.37	212.53	216.37	84.56	9999.00	212.14	9999.00
15 38	42- 52	108.73	111.28	108.31	116.35	95.44	111.70	112.13	88.05	141.79	148.76	107.88
	53- 59	115.51	112.97	103.19	116.35	113.40	116.35	110.86	150.80	156.89	97.60	143.02
	61- 71	68.17	127.28	87.19	98.46	123.10	141.79	112.13	145.07	146.71	187.63	136.01
	72- 82	126.85	89.36	95.87	98.99	9999.00	9999.00	133.94	174.97			
15 38	83- 89	132.70	218.57	104.47	48.63	9999.00	215.22	203.26	201.70	198.59	196.25	211.76
	91-101	213.30	158.51	178.94	110.86	96.30	9999.00	203.26	207.13	201.70	205.97	208.67
	102-112	204.42	204.42	212.91	224.01	222.49	198.59	203.64	9999.00			
	113-120	210.22	204.81	108.73	113.40	121.84	9999.00	9999.00				
15 40	2- 12	9999.00	107.88	123.10	104.04	97.17	103.61	95.44	97.60	102.33	98.46	108.31
	13- 23	104.04	97.17	122.68	126.96	113.40	114.66	105.32	109.16	9999.00	210.99	9999.00
	24- 29	9999.00	220.58	85.87	85.97	86.31	87.18					
	31- 41	79.28	79.28	9999.00	95.01	215.22	216.75	217.52	84.56	9999.00	215.60	95.87
15 40	42- 52	108.73	111.28	108.31	91.10	95.44	111.70	112.13	88.05	142.20	149.16	107.88
	53- 59	114.24	112.13	104.04	115.51	112.97	115.51	110.43	152.02	157.70	9999.00	140.55
	61- 71	69.07	128.95	89.80	99.75	121.00	141.38	111.70	146.71	146.71	188.42	136.43
	72- 82	134.77	92.41	97.17	100.61	9999.00	9999.00	129.37				
15 40	83- 89	129.37	220.96	103.19	47.79	9999.00	219.05	175.36	203.26	200.15	198.59	212.91
	91-101	214.83	159.32	179.73	9999.00	94.57	9999.00	204.81	207.51	202.48	206.74	209.45
	102-112	206.74	205.58	214.07	224.77	223.25	198.98	204.82	9999.00			
	113-120	210.99	205.58	109.16	112.97	118.87	9999.00	9999.00				
15 42	2- 12	9999.00	107.88	124.35	104.04	97.17	103.61	95.87	97.60	102.33	98.46	105.32
	13- 23	104.04	97.17	122.68	127.28	113.40	114.66	104.04	106.18	212.53	210.60	9999.00
	24- 29	9999.00	220.20	86.74	86.31	86.74	88.05					
	31- 41	79.28	79.72	96.74	95.01	219.05	220.96	217.14	84.56	9999.00	219.05	95.87
15 42	42- 52	108.73	111.28	108.31	91.97	95.44	111.70	112.13	88.05	142.61	149.98	107.88
	53- 59	113.40	111.28	104.04	114.56	112.13	114.66	110.01	153.24	158.11	99.75	136.08
	61- 71	70.41	129.78	91.97	101.04	119.29	140.55	111.70	147.12	145.48	188.42	135.18
	72- 82	142.61	95.01	98.03	102.35	9999.00	9999.00	124.77				
15 42	83- 89	125.19	222.49	100.61	44.58	9999.00	222.49	174.17	204.42	200.93	199.76	214.07
	91-101	215.22	158.92	178.94	104.47	91.97	9999.00	206.35	207.51	202.48	206.74	209.45
	102-112	207.90	206.74	214.45	224.77	223.63	199.37	204.42	9999.00			
	113-120	211.75	205.19	106.73	112.55	116.77	9999.00	9999.00				
15 44	2- 12	9999.00	107.88	125.19	104.04	97.17	103.19	95.44	97.60	102.33	98.46	103.19
	13- 23	104.04	97.17	122.68	127.28	113.82	114.66	102.76	104.90	213.30	210.60	9999.00
	24- 29	9999.00	220.58	86.74	85.74	86.74	89.36					
	31- 41	79.72	79.72	173.77	95.01	222.11	224.39	217.52	85.87	9999.00	222.49	95.44
15 44	42- 52	108.73	110.86	108.31	92.41	95.87	111.70	112.13	88.49	143.43	149.98	107.88
	53- 59	112.55	110.43	104.04	114.24	111.70	114.24	110.01	154.05	158.92	100.18	136.43
	61- 71	72.19	131.03	93.71	102.33	118.03	139.73	111.28	147.12	145.48	188.42	135.18
	72- 82	149.98	97.17	98.89	104.04	9999.00	9999.00	122.26				
15 44	83- 89	123.52	223.25	99.75	43.55	9999.00	225.16	173.37	205.58	202.87	200.93	214.83
	91-101	215.93	158.92	178.94	103.19	91.10	9999.00	207.13	208.67	203.26	207.13	210.99
	102-112	209.05	207.90	215.60	225.92	224.39	200.15	205.19	9999.00			
	113-120	213.68	206.74	109.16	112.55	115.93	9999.00	9999.00				

A30-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-9 (1-21-65)
 TEST POINT NO. 5, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, BACK FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME	CHANNELS	9999.00	104.47	103.61	95.87	97.60	102.33	98.46	101.90
15 46	2- 12	107.88	125.61	104.47	97.60	103.61	102.33	98.46	101.90
	13- 23	97.17	123.10	127.28	113.82	114.66	214.07	212.14	9999.00
15 46	24- 29	222.11	87.62	87.52	90.67	90.67	9999.00	225.54	96.30
	31- 41	79.72	181.71	95.44	225.54	228.20	88.49	143.84	107.88
	42- 52	108.73	110.96	92.94	95.87	112.13	88.49	150.39	107.88
15 46	53- 59	111.73	110.01	104.04	110.86	113.40	155.27	100.61	134.36
	61- 71	73.52	131.45	103.51	116.77	138.90	147.53	189.20	136.01
	72- 82	157.31	98.89	105.32	9999.00	9999.00	204.03	201.70	215.98
	83- 89	122.69	225.54	100.19	9999.00	228.20	205.64	207.90	211.37
15 46	91-101	217.52	159.32	102.53	91.10	9999.00	206.74	201.70	215.98
	102-112	210.22	209.06	225.30	224.77	200.93	209.45	207.90	211.37
	113-120	214.45	207.13	111.28	115.51	9999.00	9999.00	207.90	211.37
15 48	2- 12	107.46	126.03	104.47	97.60	103.61	102.33	98.46	101.47
	13- 23	97.17	123.10	127.28	114.24	114.66	214.83	212.14	9999.00
15 48	24- 29	222.11	87.62	87.52	91.97	91.97	9999.00	228.20	95.44
	31- 41	79.72	181.71	95.44	225.54	228.20	88.49	151.20	107.46
	42- 52	108.73	110.43	93.27	95.87	111.70	88.49	144.25	107.46
15 48	53- 59	110.85	109.16	104.04	112.55	112.55	156.08	101.04	133.11
	61- 71	74.85	131.36	104.47	115.09	138.08	147.94	189.99	136.43
	72- 82	163.35	100.18	105.40	9999.00	9999.00	208.29	202.87	217.14
	83- 89	122.25	227.06	42.73	9999.00	230.85	210.60	209.45	212.53
15 48	91-101	219.05	160.53	101.90	91.10	9999.00	204.81	209.45	212.53
	102-112	211.37	210.22	227.44	226.30	416.29	9999.00	209.45	212.53
	113-120	215.22	207.90	110.96	115.09	9999.00	9999.00	209.45	212.53
15 50	2- 12	107.46	126.45	104.47	97.60	103.19	102.33	98.46	101.47
	13- 23	97.17	123.10	127.70	114.24	114.66	215.98	213.30	9999.00
15 50	24- 29	224.01	88.49	89.49	87.62	92.84	9999.00	230.85	95.87
	31- 41	79.72	80.16	95.44	231.23	234.26	88.05	151.61	107.46
	42- 52	108.73	110.43	94.14	96.30	112.13	88.49	145.07	107.46
15 50	53- 59	110.43	108.73	112.55	110.01	112.13	157.30	101.47	131.45
	61- 71	76.19	132.28	103.32	114.24	137.67	148.35	189.99	136.84
	72- 82	168.53	101.47	107.46	9999.00	9999.00	206.35	204.42	218.28
	83- 89	121.84	227.44	43.19	9999.00	233.50	210.99	210.22	213.30
15 50	91-101	219.81	160.53	101.90	91.10	9999.00	205.58	204.42	218.28
	102-112	212.14	210.99	225.20	226.68	202.87	9999.00	210.22	213.30
	113-120	216.37	209.06	110.43	115.51	9999.00	9999.00	210.22	213.30
15 52	2- 12	107.46	126.85	104.47	97.60	103.19	102.33	98.46	101.47
	13- 23	97.17	123.10	127.70	114.24	114.66	216.37	214.07	9999.00
15 52	24- 29	225.16	89.35	89.35	87.62	93.71	9999.00	233.50	95.87
	31- 41	80.16	188.02	95.44	233.88	237.27	88.93	152.02	107.46
	42- 52	108.31	109.58	94.57	96.30	112.13	88.93	145.89	107.46
15 52	53- 59	110.01	104.04	111.70	109.58	111.28	158.11	101.90	130.62
	61- 71	77.95	132.70	103.75	113.40	136.43	149.16	191.17	137.67
	72- 82	173.37	101.47	108.31	9999.00	9999.00	207.13	205.58	213.30
	83- 89	121.84	229.33	43.19	9999.00	236.14	210.22	205.58	219.43
15 52	91-101	221.84	161.34	101.90	91.10	9999.00	212.14	210.60	214.07
	102-112	213.30	211.76	229.33	227.82	203.64	9999.00	210.60	214.07
	113-120	217.52	209.45	110.43	115.51	9999.00	9999.00	210.60	214.07

APO-112 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-B (1-21-65)
 TEST POINT NO. 5, SOLAR ON, HOT LUNAR SURFACE,
 THERMA DUMMY HEATERS OFF, BACK FACING SOLAR

TIME	C CHANNELS	TEMPERATURES - FARENHEIT																		
15	54	9999.00	107.03	127.28	104.90	97.60	103.19	95.87	98.03	102.33	98.03	101.47	9999.00	102.33	98.03	101.47	9999.00	102.33	98.03	101.47
		102.33	97.17	123.52	128.12	114.66	114.66	100.18	101.47	216.75	214.45	9999.00	89.80	9999.00	236.14	95.87	88.93	146.30	152.43	107.03
15	54	9999.00	225.92	89.80	89.80	88.05	94.57	221.34	89.80	9999.00	236.14	95.87	9999.00	9999.00	236.14	95.87	9999.00	9999.00	236.14	95.87
		80.16	80.16	186.45	95.44	236.52	239.91	111.28	88.93	146.30	152.43	107.03	108.31	109.58	108.31	111.28	108.31	108.31	108.31	108.31
15	54	109.59	107.88	104.04	111.28	109.16	110.86	108.31	159.32	162.95	102.33	129.78	98.89	98.89	149.16	137.67	9999.00	9999.00	118.03	191.17
		132.70	132.70	98.89	106.60	112.55	136.01	110.01	149.16	147.53	191.17	137.67	177.35	104.04	9999.00	9999.00	121.42	229.33	236.40	172.97
15	54	121.42	229.33	100.18	43.19	9999.00	236.40	172.97	210.99	208.29	206.35	228.20	221.72	160.94	180.92	212.53	214.45	213.30	209.06	211.37
		214.45	213.30	220.20	229.33	228.20	204.03	209.06	9999.00	9999.00	9999.00	214.45	218.29	209.83	108.73	9999.00				
16	0	9999.00	106.60	128.12	105.32	98.03	103.19	96.74	98.03	102.33	98.46	100.18	9999.00	106.60	128.12	105.32	9999.00	106.60	128.12	105.32
		103.61	97.60	123.94	128.12	115.51	115.09	98.89	100.18	215.98	215.22	9999.00	9999.00	225.92	91.97	96.74	9999.00	225.92	91.97	96.74
16	0	79.72	79.72	176.95	95.44	242.54	246.28	222.11	91.54	9999.00	242.16	96.30	108.31	108.31	97.17	96.74	186.84	106.18	103.61	106.60
		108.31	108.31	108.31	97.17	96.74	111.28	111.28	89.36	148.35	154.05	106.60	108.31	106.60	103.61	107.03	83.24	133.11	100.61	107.98
16	0	83.24	133.11	100.61	107.98	110.86	134.36	108.73	162.15	165.37	103.61	127.70	186.84	106.18	103.61	116.35	149.57	147.53	191.56	137.67
		120.13	231.61	99.75	42.27	9999.00	244.41	172.57	149.57	147.53	191.56	137.67	223.63	161.74	181.32	214.83	217.14	215.22	222.11	210.60
16	0	217.14	215.22	222.11	230.95	229.33	205.19	210.60	9999.00	9999.00	9999.00	217.14	220.20	211.37	108.73	9999.00				
		220.20	211.37	108.73	108.73	114.66	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	106.18	128.95	105.75	9999.00	106.18	128.95	105.75
16	10	9999.00	106.18	128.95	105.75	98.46	102.76	97.17	98.46	102.33	98.46	102.33	9999.00	106.18	128.95	105.75	9999.00	106.18	128.95	105.75
		104.04	98.99	124.77	129.37	116.77	115.93	98.03	99.32	217.90	217.14	9999.00	9999.00	228.58	95.01	99.75	9999.00	228.58	95.01	99.75
16	10	78.40	79.84	158.92	95.44	246.66	250.39	224.01	94.14	9999.00	246.66	96.74	107.45	106.18	107.88	110.86	107.45	106.18	107.88	110.86
		107.45	106.18	107.88	100.18	97.17	111.28	110.86	90.23	151.61	156.49	106.18	107.45	105.75	103.19	106.18	107.45	105.75	103.19	106.18
16	10	107.45	105.75	103.19	109.16	108.31	108.73	106.18	166.17	168.98	104.90	126.03	90.23	133.53	103.19	118.87	195.85	108.73	104.90	118.87
		190.23	133.53	103.19	109.16	109.58	131.86	107.88	151.20	152.43	193.91	140.96	123.52	234.26	104.47	174.97	226.30	163.76	184.09	174.97
16	10	226.30	163.76	184.09	104.47	95.44	9999.00	218.28	217.14	214.07	212.53	224.39	220.20	219.28	224.77	213.30	220.20	219.28	224.77	213.30
		222.87	214.45	108.31	108.31	118.45	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	106.18	129.78	106.18	9999.00	106.18	129.78	106.18
16	20	9999.00	106.18	129.78	106.18	99.32	102.76	98.03	99.32	102.76	98.89	106.18	9999.00	106.18	129.78	106.18	9999.00	106.18	129.78	106.18
		104.04	100.18	126.03	130.52	117.61	117.61	97.60	99.32	222.87	220.96	9999.00	9999.00	231.99	97.60	96.74	9999.00	231.99	97.60	96.74
16	20	77.51	77.95	145.48	94.57	249.65	253.00	227.06	96.30	9999.00	249.27	97.17	77.51	77.95	145.48	94.57	77.51	77.95	145.48	94.57
		106.60	104.47	107.45	102.76	98.03	110.86	110.43	91.10	154.86	158.92	105.75	107.03	105.32	103.19	108.73	107.03	105.32	103.19	108.73
16	20	107.03	105.32	103.19	109.16	108.73	108.73	105.75	170.18	172.17	106.60	126.03	96.30	134.36	105.32	113.92	201.31	111.28	106.19	113.92
		201.31	111.28	106.19	113.92	9999.00	250.39	178.54	153.65	154.46	196.64	143.02	126.03	235.77	107.03	48.25	126.03	235.77	107.03	48.25
16	20	126.03	235.77	107.03	48.25	9999.00	250.39	178.54	220.20	217.14	215.60	227.44	228.53	165.17	186.05	106.60	228.53	165.17	186.05	106.60
		223.25	220.96	227.82	236.52	235.01	210.99	215.60	219.05	213.68	217.90	228.96	225.92	216.75	107.46	108.31	225.92	216.75	107.46	108.31

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-B (1-21-65)
 TEST PJVIT NO. 5, SOLAR ON, HOT LUNAR SURFACE,
 THERYA - DUMMY HEATERS OFF, BACK FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME	C CHANNELS	9999.00	106.18	130.62	107.03	99.75	102.33	98.03	99.75	102.76	98.89	101.04
16 30	2- 12	9999.00	106.18	130.62	107.03	99.75	102.33	98.03	99.75	102.76	98.89	101.04
	13- 23	104.04	100.61	126.86	131.45	118.87	117.61	96.74	98.03	219.43	218.67	9999.00
16 30	24- 29	9999.00	229.71	99.75	98.46	93.27	252.63	224.77	98.03	9999.00	248.53	97.60
	31- 41	77.07	77.51	147.53	94.57	249.27	110.01	110.01	92.41	157.30	160.94	105.32
	42- 52	106.15	102.76	107.45	104.90	98.03	110.01	105.75	172.17	174.17	107.03	125.61
16 30	53- 59	106.60	105.32	103.19	108.73	108.73	108.73	106.60	152.43	149.57	193.91	138.90
	51- 71	100.61	135.18	106.60	111.28	110.01	129.37	106.60	9999.00	218.28	429.26	227.44
	72- 82	203.64	112.55	107.45	114.24	9999.00	9999.00	116.35	175.36	212.53	216.75	220.20
16 30	83- 89	121.00	233.88	101.04	43.65	9999.00	249.27	175.36	9999.00	218.28	429.26	227.44
	91-101	226.30	162.95	182.11	101.04	91.10	9999.00	222.11	9999.00	218.28	429.26	227.44
	102-112	224.01	221.34	227.44	235.19	233.88	209.83	214.07	217.90	212.53	216.75	220.20
	113-120	226.30	215.22	107.03	107.46	115.51	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
16 40	2- 12	9999.00	106.18	131.03	107.46	100.18	102.33	98.89	100.18	102.76	99.32	100.18
	13- 23	104.90	101.47	128.53	132.70	120.13	118.87	95.44	97.47	219.81	219.05	9999.00
16 40	24- 29	9999.00	230.09	101.90	100.61	95.01	105.32	225.16	100.18	9999.00	247.03	98.46
	31- 41	76.19	76.19	131.45	94.14	9999.00	250.76	109.58	93.71	159.73	162.95	105.32
	42- 52	105.32	101.04	107.03	107.46	98.89	109.58	105.75	173.77	175.36	107.46	125.61
16 40	53- 59	106.60	105.75	103.61	109.16	109.16	108.73	105.75	153.24	149.57	194.69	139.32
	51- 71	105.75	135.60	108.73	111.70	110.01	127.70	105.75	9999.00	9999.00	9999.00	9999.00
	72- 82	205.19	114.24	108.31	115.09	9999.00	9999.00	115.09	174.57	219.05	217.90	228.58
16 40	83- 89	120.13	234.26	101.04	43.65	9999.00	248.15	222.87	221.72	219.05	217.90	228.58
	91-101	226.69	163.76	182.50	100.61	91.10	9999.00	214.83	218.28	212.91	217.14	9999.00
	102-112	224.77	222.11	228.58	236.52	235.01	210.60	9999.00	9999.00	9999.00	9999.00	9999.00
	113-120	227.05	215.60	106.18	108.31	115.09	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
17 0	2- 12	9999.00	106.60	131.85	108.75	101.47	101.90	99.75	101.47	102.76	99.75	98.03
	13- 23	105.32	102.76	131.03	133.18	122.26	121.42	94.14	95.87	218.28	218.67	9999.00
17 0	24- 29	9999.00	229.33	105.32	104.04	98.03	108.31	224.39	104.04	9999.00	246.28	98.89
	31- 41	76.63	77.07	141.39	93.71	246.66	250.02	109.16	95.44	162.95	165.77	105.75
	42- 52	104.04	98.46	106.18	110.46	100.18	108.73	106.18	176.16	177.35	108.31	126.45
17 0	53- 59	107.03	106.18	104.04	109.58	110.01	110.01	104.90	153.65	147.53	193.91	137.67
	51- 71	111.70	135.60	111.28	112.55	110.43	126.03	104.90	222.49	220.20	218.67	228.58
	72- 82	206.74	117.19	108.73	115.93	9999.00	9999.00	112.55	218.28	212.53	216.75	220.58
17 0	83- 89	117.61	233.50	98.89	41.91	9999.00	247.03	172.17	9999.00	9999.00	9999.00	9999.00
	91-101	225.54	162.95	181.32	98.13	88.49	9999.00	224.01	222.49	220.20	218.67	228.58
	102-112	225.54	222.49	228.95	233.77	234.63	210.22	214.07	218.28	212.53	216.75	220.58
	113-120	227.44	215.22	104.90	109.16	112.55	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
17 20	2- 12	9999.00	107.03	132.29	109.58	102.33	101.47	100.18	102.33	102.76	99.75	98.03
	13- 23	105.32	104.04	133.53	137.61	123.94	123.10	93.27	95.01	219.43	219.43	9999.00
17 20	24- 29	9999.00	230.85	108.31	107.03	101.04	111.28	224.77	107.03	9999.00	246.28	99.75
	31- 41	77.51	77.95	149.99	94.14	247.03	250.76	108.73	97.60	165.77	167.77	106.60
	42- 52	102.75	96.74	105.32	113.40	101.04	107.46	107.03	178.15	178.94	108.73	127.70
17 20	53- 59	107.89	107.03	104.90	110.46	111.28	110.86	107.03	154.46	147.12	193.91	137.67
	51- 71	116.35	136.01	113.82	113.40	111.28	124.77	104.47	223.25	220.96	219.81	228.96
	72- 82	207.90	119.29	109.15	115.77	9999.00	9999.00	112.13	217.90	212.91	216.75	220.58
	83- 89	116.77	232.37	98.46	42.27	9999.00	247.03	172.17	9999.00	9999.00	9999.00	9999.00
17 20	91-101	225.15	162.95	180.92	97.60	88.05	9999.00	224.39	223.25	220.96	219.81	228.96
	102-112	225.92	223.25	229.71	236.14	234.63	210.22	214.07	217.90	212.91	216.75	220.58
	113-120	228.20	214.83	104.04	110.43	112.55	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00

APOLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-3 (1-21-65)
 TEST POINT NO. 5, SOLAR ON, HOT LUNAR SURFACE,
 THERYA - DUMMY HEATERS OFF, BACK FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																
17	40	9999.00	106.50	132.70	110.43	103.19	101.04	100.61	103.19	102.76	99.75	95.44						
		105.75	104.47	136.01	139.73	125.61	124.77	91.97	125.61	216.75	218.28	9999.00						
17	40	9999.00	229.33	110.86	109.58	103.19	113.82	223.63	250.39	9999.00	245.91	99.75						
		77.51	147.12	93.71	246.66	108.31	98.89	108.31	167.77	169.38	107.03							
		101.90	95.01	104.47	115.09	101.90	106.60	107.88	111.70	111.70	108.73	128.95						
		108.31	107.88	105.75	111.70	111.70	123.52	104.04	154.05	145.48	193.12	136.43						
17	40	118.87	132.50	116.35	113.40	111.70	9999.00	110.01	223.25	220.96	219.81	231.23						
		207.90	121.84	109.58	116.77	9999.00	246.66	170.58	224.39	212.53	216.75	220.58						
		115.51	232.37	97.17	41.35	9999.00	86.74	9999.00	214.07	217.90								
17	40	224.01	161.74	179.73	95.87	86.74	9999.00	224.39	214.07	217.90								
		225.92	223.25	229.33	236.14	234.63	209.83	214.07	9999.00	9999.00								
		228.20	214.83	102.76	111.28	111.28	9999.00	9999.00	101.47	104.04	99.75	97.60						
18	0	9999.00	105.18	133.11	111.28	104.04	100.61	101.47	104.04	102.76	99.75	97.60						
		106.18	105.32	138.08	141.79	127.28	125.61	91.54	93.27	219.05	220.20	9999.00						
18	0	9999.00	231.61	113.40	112.13	105.32	116.35	225.54	112.13	9999.00	245.91	100.18						
		76.63	77.07	149.98	93.71	247.03	250.76	107.46	100.61	169.38	170.58	107.88						
		100.61	93.71	104.04	115.93	102.76	105.75	108.31	104.04	180.92	109.16	130.20						
		108.73	105.31	106.18	112.55	112.97	112.55	104.04	180.92	181.32	109.16	130.20						
18	0	121.03	136.01	118.45	113.82	112.55	9999.00	112.13	156.08	147.94	195.08	138.08						
		208.29	123.52	109.58	116.77	9999.00	247.41	171.78	224.01	221.72	220.96	229.71						
		117.19	234.26	99.75	43.19	9999.00	88.93	9999.00	225.54	214.07	217.90	221.72						
18	0	225.54	163.76	181.71	98.73	88.93	9999.00	225.54	214.83	214.07								
		227.44	224.39	230.85	237.27	235.77	210.99	214.83	9999.00	9999.00								
		229.71	213.60	101.47	112.55	112.97	9999.00	9999.00	101.90	104.90	99.75	96.30						
18	20	9999.00	105.18	133.53	112.13	104.90	100.61	101.90	104.90	102.76	99.75	96.30						
		106.60	105.18	140.14	143.43	128.53	127.28	91.10	92.84	218.28	219.43	9999.00						
18	20	9999.00	230.09	115.51	113.82	107.03	118.45	224.39	114.24	9999.00	246.66	100.61						
		76.63	77.07	148.75	93.71	247.03	251.14	107.46	101.90	170.98	171.78	108.73						
		100.13	92.84	102.76	116.77	103.61	104.90	108.73	182.11	182.50	109.58	131.45						
		109.58	109.16	107.03	113.82	113.82	113.40	103.61	155.68	145.89	193.91	136.43						
18	20	122.63	136.43	120.59	114.24	113.40	9999.00	110.43	224.77	222.49	221.34	229.71						
		209.45	125.61	110.01	117.19	9999.00	247.41	171.38	218.28	212.91	217.14	220.96						
		115.51	233.50	97.17	41.81	9999.00	86.74	9999.00	9999.00	9999.00								
18	20	224.01	162.55	180.13	96.30	87.62	9999.00	225.92	214.07	214.07								
		227.44	224.01	230.47	235.90	236.14	210.22	214.07	9999.00	9999.00								
		229.33	213.22	101.04	113.40	111.28	9999.00	9999.00	101.90	105.32	99.75	96.30						
18	30	9999.00	105.18	133.53	112.55	105.32	100.18	101.90	105.32	102.76	99.75	96.30						
		107.03	106.50	140.95	144.25	129.37	128.12	91.10	92.84	218.28	219.43	9999.00						
18	30	9999.00	230.09	116.77	115.09	108.31	119.29	224.39	115.51	9999.00	246.66	101.04						
		76.63	76.53	148.76	93.71	247.03	251.14	107.46	102.33	171.78	172.57	108.73						
		99.75	92.41	102.76	117.19	104.04	104.90	109.16	182.90	183.29	110.01	131.86						
		110.01	109.58	107.45	114.24	114.66	113.82	104.04	155.68	145.48	193.91	136.43						
18	30	123.17	136.43	121.42	114.56	113.82	9999.00	110.43	224.77	222.49	221.34	229.71						
		209.45	126.45	110.43	117.19	9999.00	247.41	170.58	218.28	212.91	217.14	220.96						
		115.51	234.26	96.74	41.81	9999.00	86.74	9999.00	9999.00	9999.00								
18	30	224.01	162.55	180.13	96.30	86.74	9999.00	225.92	214.45	213.30	217.52	230.09						
		227.82	224.39	230.85	237.27	236.14	210.99	214.45	9999.00	9999.00								
		229.71	213.22	101.04	113.52	111.28	9999.00	9999.00	101.90	105.32	99.75	96.30						

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-9 (1-21-65)
 TEST POINT NO. 5, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, BACK FACING SOLAR

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
15 33	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	94.00	95.00	101.00	102.00	104.00	100.00	
	B12-B22	113.00	101.00	113.00	101.00	102.00	96.00	97.00	95.00	100.00	99.00	113.00	
	B23-B24	-0.00											
15 40	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	95.00	95.00	102.00	102.00	105.00	101.00	
	B12-B22	114.00	101.00	113.00	101.00	103.00	96.00	97.00	95.00	100.00	100.00	113.00	
	B23-B24	-0.00											
15 50	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	95.00	96.00	102.00	102.00	106.00	100.00	
	B12-B22	114.00	102.00	114.00	101.00	104.00	96.00	97.00	96.00	101.00	101.00	114.00	
	B23-B24	-0.00											
16 0	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	95.00	97.00	102.00	102.00	105.00	101.00	
	B12-B22	114.00	102.00	114.00	101.00	105.00	97.00	97.00	96.00	102.00	102.00	115.00	
	B23-B24	-0.00											
16 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	97.00	102.00	101.00	105.00	101.00	
	B12-B22	114.00	102.00	115.00	102.00	105.00	97.00	98.00	96.00	103.00	103.00	116.00	
	B23-B24	-0.00											
16 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	98.00	101.00	101.00	105.00	102.00	
	B12-B22	115.00	103.00	116.00	102.00	106.00	97.00	98.00	96.00	104.00	104.00	117.00	
	B23-B24	-0.00											
16 30	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	96.00	99.00	101.00	101.00	106.00	103.00	
	B12-B22	115.00	104.00	117.00	102.00	106.00	97.00	98.00	96.00	105.00	105.00	118.00	
	B23-B24	-0.00											
16 40	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	97.00	100.00	101.00	101.00	106.00	103.00	
	B12-B22	117.00	105.00	118.00	103.00	107.00	97.00	98.00	96.00	106.00	106.00	119.00	
	B23-B24	-0.00											
16 50	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	100.00	101.00	101.00	107.00	103.00	
	B12-B22	117.00	105.00	119.00	103.00	107.00	97.00	99.00	96.00	107.00	106.00	120.00	
	B23-B24	-0.00											
17 0	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	100.00	101.00	101.00	107.00	104.00	
	B12-B22	119.00	106.00	121.00	104.00	107.00	97.00	99.00	96.00	108.00	107.00	121.00	
	B23-B24	-0.00											
17 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	100.00	101.00	100.00	107.00	105.00	
	B12-B22	119.00	106.00	122.00	104.00	108.00	97.00	100.00	96.00	109.00	108.00	122.00	
	B23-B24	-0.00											
17 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	100.00	101.00	100.00	108.00	106.00	
	B12-B22	120.00	107.00	122.00	105.00	108.00	97.00	99.00	97.00	110.00	109.00	123.00	
	B23-B24	-0.00											
17 30	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	99.00	101.00	100.00	100.00	108.00	106.00	
	B12-B22	121.00	108.00	123.00	105.00	108.00	97.00	99.00	97.00	110.00	109.00	123.00	
	B23-B24	-0.00											

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-9 (1-21-65)
 TEST POINT NO. 5, SOLAR ON, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, BACK FACING SOLAR

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
17 40	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	99.00	101.00	100.00	100.00	100.00	108.00	106.00
	B12-B22	121.00	108.00	124.00	105.00	109.00	97.00	100.00	97.00	111.00	110.00	110.00	124.00
	B23-B24	101.00	-0.00										
17 50	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	99.00	101.00	100.00	100.00	100.00	108.00	107.00
	B12-B22	122.00	109.00	125.00	105.00	109.00	97.00	99.00	96.00	112.00	110.00	110.00	124.00
	B23-B24	100.00	-0.00										
18 0	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	99.00	102.00	100.00	100.00	100.00	109.00	107.00
	B12-B22	122.00	110.00	125.00	105.00	109.00	97.00	99.00	96.00	112.00	110.00	110.00	125.00
	B23-B24	100.00	-0.00										
18 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	102.00	100.00	100.00	100.00	109.00	107.00
	B12-B22	123.00	110.00	126.00	105.00	110.00	97.00	100.00	97.00	113.00	111.00	111.00	125.00
	B23-B24	100.00	-0.00										
18 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	102.00	100.00	100.00	100.00	109.00	108.00
	B12-B22	123.00	111.00	127.00	106.00	110.00	97.00	100.00	97.00	113.00	111.00	111.00	125.00
	B23-B24	100.00	-0.00										
18 32	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	102.00	99.00	100.00	100.00	110.00	109.00
	B12-B22	124.00	111.00	128.00	106.00	110.00	97.00	100.00	97.00	114.00	112.00	112.00	127.00
	B23-B24	99.00	-0.00										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-9 (1-21-65)
 TEST POINT NO. 6, SOLAR OFF, LUNAR OFF,
 THERMAL GUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
18 35	2- 12	9999.00	106.18	133.53	112.55	105.32	100.18	101.90	105.32	102.76	99.75	96.30
	13- 23	107.03	106.60	141.79	144.56	129.78	128.53	90.67	92.41	218.28	219.43	9999.00
	24- 29	9999.00	230.09	117.19	115.51	108.31	119.71					
18 35	31- 41	76.63	77.07	139.32	93.71	247.03	250.76	224.77	115.93	9999.00	246.66	101.04
	42- 52	99.75	92.41	101.90	117.19	104.04	104.90	107.03	102.76	172.17	172.57	108.73
	53- 59	110.01	109.58	107.46	114.24	114.66	114.24	109.58				
18 35	51- 71	123.52	136.43	121.84	114.56	113.82	122.26	110.43	183.29	183.29	109.58	132.28
	72- 82	209.45	126.86	110.43	117.51	9999.00	9999.00	110.43	156.49	146.30	194.69	136.84
	83- 89	115.93	235.39	97.60	42.27	9999.00	247.41	171.38				
18 35	91-101	224.77	163.36	180.92	96.74	87.62	9999.00	226.30	224.77	222.87	221.72	228.58
	102-112	228.59	224.77	230.85	237.65	236.52	210.99	214.83	218.67	213.30	217.14	220.96
	113-120	230.09	215.60	100.61	113.82	111.70	149.98	149.98	0.00			
18 38	2- 12	9999.00	106.18	133.53	112.97	105.32	100.18	101.90	105.75	102.76	99.75	76.63
	13- 23	107.03	107.03	141.79	144.56	130.20	128.53	89.36	91.54	159.73	122.68	9999.00
	24- 29	9999.00	126.86	117.19	115.93	108.31	120.13					
18 38	31- 41	76.63	77.07	128.12	93.71	245.16	248.90	97.17	115.93	9999.00	233.12	101.04
	42- 52	99.75	91.97	102.33	117.19	104.04	104.47	107.03	102.76	172.57	172.97	108.73
	53- 59	110.01	109.58	107.46	114.24	114.66	114.24	109.58				
18 38	51- 71	123.52	136.43	121.84	114.56	113.82	122.26	103.61	183.29	183.29	109.58	132.28
	72- 82	209.45	127.28	110.43	117.19	9999.00	9999.00	52.37	57.37	31.57	29.70	19.77
	83- 89	44.53	73.52	4.39	-25.40	9999.00	224.01	131.86				
18 38	91-101	92.41	3.90	15.00	18.82	-13.82	9999.00	204.81	202.48	203.26	206.35	176.56
	102-112	189.20	186.45	171.38	135.18	144.25	118.45	110.86	112.97	115.09	114.24	114.66
	113-120	179.73	147.12	100.61	113.82	19.77	149.98	149.98	0.00			
18 40	2- 12	9999.00	105.75	133.53	112.97	105.32	100.18	102.33	105.32	102.76	99.75	-20.85
	13- 23	106.60	106.18	141.79	145.07	130.20	129.37	73.08	77.95	284.98	-18.83	9999.00
	24- 29	9999.00	-8.36	117.19	115.93	108.73	120.13					
18 40	31- 41	80.15	79.72	96.74	94.14	237.65	241.04	-22.36	115.93	9999.00	224.01	101.04
	42- 52	99.32	91.54	102.33	116.77	104.04	104.47	107.03	102.76	171.38	172.57	109.16
	53- 59	109.58	109.16	107.88	114.24	114.24	113.82	109.58				
18 40	51- 71	123.10	136.01	121.84	113.82	113.40	122.26	103.61	180.92	181.71	108.31	131.86
	72- 82	207.13	126.86	109.58	115.93	9999.00	9999.00	2.93	6.33	-37.20	-44.49	-43.96
	83- 89	-10.34	12.50	-82.05	-78.99	9999.00	215.60	90.67				
18 40	91-101	52.37	-65.34	-56.13	-39.79	-75.68	9999.00	186.06	184.08	186.06	189.60	156.49
	102-112	178.94	168.58	151.20	111.28	121.00	126.03	85.87	88.93	90.23	131.45	102.33
	113-120	160.94	80.60	100.61	113.82	-24.89	149.98	149.98	0.00			
18 42	2- 12	9999.00	105.75	133.53	112.97	105.75	100.18	102.76	105.75	102.76	99.75	-54.53
	13- 23	106.18	106.18	142.20	145.48	130.62	129.37	62.79	68.17	312.66	-55.60	9999.00
	24- 29	9999.00	-43.96	117.61	115.93	108.73	120.13					
18 42	31- 41	80.60	80.16	101.04	94.57	231.61	234.26	-56.67	116.35	9999.00	217.90	101.04
	42- 52	99.32	91.10	101.90	115.35	104.47	104.47	107.03	103.19	171.38	172.17	109.16
	53- 59	109.15	108.73	107.46	113.82	113.82	113.40	109.16				
18 42	51- 71	121.84	134.77	121.00	112.15	112.55	121.42	103.19	178.15	179.34	106.18	130.62
	72- 82	201.79	125.61	108.31	114.24	9999.00	9999.00	-22.87	-11.33	-63.74	-71.29	-68.03
	83- 89	-31.01	-7.86	-85.71	-98.27	9999.00	209.06	66.83				
18 42	91-101	38.57	-89.10	-81.78	-66.96	-97.69	9999.00	173.37	172.17	174.97	178.15	144.25
	102-112	157.30	156.49	139.73	98.89	108.31	69.52	73.52	77.95	78.84	77.95	91.54
	113-120	151.20	69.96	100.19	113.82	-42.39	149.98	149.98	0.00			

APO L J EXTRAVENICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-9 (1-21-65)
 TEST POINT NO. 6, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT														
		105.75	102.76	105.75	102.76	105.75	99.75	102.76	105.75	102.76	105.75	99.75	102.76			
18 44	2-12	9999.00	105.32	132.70	112.55	105.75	99.75	102.76	105.75	99.75	102.76	105.75	99.75	102.76	99.75	-73.48
	13-23	106.19	106.60	142.20	145.48	130.20	129.37	64.59	130.20	129.37	64.59	130.20	129.37	64.59	74.57	9999.00
18 44	24-29	9999.00	-62.05	117.61	115.93	108.73	119.71	-75.12	225.54	227.82	-75.12	225.54	227.82	-75.12	211.37	101.04
	31-41	79.29	78.84	96.30	93.71	104.04	104.47	106.60	104.04	104.47	106.60	104.04	104.47	106.60	171.38	108.73
	42-52	98.89	90.23	101.90	115.93	113.40	112.97	109.16	113.40	112.97	109.16	113.40	112.97	109.16	177.35	129.37
18 44	53-59	108.73	108.31	107.46	113.40	110.43	121.00	102.76	110.43	121.00	102.76	110.43	121.00	102.76	104.47	129.37
	61-71	120.58	133.53	120.58	110.01	9999.00	9999.00	-37.71	9999.00	9999.00	-37.71	9999.00	9999.00	-37.71	-84.58	-82.34
	72-82	195.47	125.19	106.60	112.55	9999.00	202.87	49.63	9999.00	202.87	49.63	9999.00	202.87	49.63	168.18	134.36
18 44	83-89	-45.01	-21.86	-100.00	-110.55	9999.00	9999.00	162.95	9999.00	9999.00	162.95	9999.00	9999.00	162.95	69.07	82.36
	91-101	29.23	-103.50	-95.95	-83.46	-112.33	9999.00	60.08	96.74	60.08	60.08	96.74	60.08	60.08	69.96	82.36
18 44	102-112	146.71	145.89	130.20	88.93	96.74	60.08	55.55	96.74	60.08	55.55	96.74	60.08	55.55	69.96	82.36
	113-120	161.34	60.99	100.18	113.40	-55.06	149.98	149.98	-55.06	149.98	149.98	-55.06	149.98	149.98	0.00	82.36
18 46	2-12	9999.00	105.75	132.28	112.97	105.75	100.18	102.76	105.75	100.18	102.76	105.75	100.18	102.76	99.75	-85.14
	13-23	106.60	107.03	142.61	145.99	130.62	130.20	69.96	130.62	130.20	69.96	130.62	130.20	69.96	335.63	9999.00
18 46	24-29	9999.00	-74.03	117.61	115.93	108.73	119.71	-86.27	219.05	220.20	-86.27	219.05	220.20	-86.27	204.81	101.47
	31-41	78.40	78.84	94.14	94.14	104.47	104.47	107.03	104.47	104.47	107.03	104.47	104.47	107.03	170.98	109.16
	42-52	98.89	89.80	101.90	115.09	112.97	112.97	109.16	112.97	112.97	109.16	112.97	112.97	109.16	168.98	109.16
18 46	53-59	108.31	108.31	107.88	112.97	112.97	112.97	109.16	112.97	112.97	109.16	112.97	112.97	109.16	174.97	128.53
	61-71	118.87	131.45	119.71	108.73	120.13	120.13	102.33	120.13	120.13	102.33	120.13	120.13	102.33	-87.40	-90.24
	72-82	188.81	123.52	104.90	110.01	9999.00	9999.00	-49.22	9999.00	9999.00	-49.22	9999.00	9999.00	-49.22	102.76	128.53
18 46	83-89	-55.60	-31.01	-111.74	-117.71	9999.00	195.47	34.38	9999.00	195.47	34.38	9999.00	195.47	34.38	-94.23	-90.24
	91-101	22.15	-114.72	-105.84	-94.23	-122.54	9999.00	152.43	-122.54	9999.00	152.43	-122.54	9999.00	152.43	158.92	125.19
18 46	102-112	137.25	137.25	121.00	79.72	86.31	51.45	56.46	86.31	51.45	56.46	86.31	51.45	56.46	61.89	74.86
	113-120	170.59	53.28	100.18	112.97	-64.27	149.98	149.98	-64.27	149.98	149.98	-64.27	149.98	149.98	60.54	74.86
18 48	2-12	9999.00	105.75	131.03	112.97	105.75	100.18	102.33	105.75	100.18	102.33	105.75	100.18	102.33	100.18	-94.23
	13-23	106.60	107.03	142.61	145.99	130.62	130.20	71.30	130.62	130.20	71.30	130.62	130.20	71.30	341.23	9999.00
18 48	24-29	9999.00	-83.46	117.61	115.51	108.73	118.87	-91.38	108.73	118.87	-91.38	108.73	118.87	-91.38	197.42	101.47
	31-41	77.95	77.95	92.84	94.14	104.47	104.47	106.60	94.14	104.47	106.60	94.14	104.47	106.60	170.18	108.73
	42-52	98.45	89.36	101.47	114.24	104.47	104.47	108.73	104.47	104.47	108.73	104.47	104.47	108.73	168.58	108.73
	53-59	107.45	107.03	107.88	112.13	112.13	112.13	108.73	112.13	112.13	108.73	112.13	112.13	108.73	9999.00	101.47
18 48	61-71	117.19	129.37	118.45	106.18	108.31	118.87	101.90	108.31	118.87	101.90	108.31	118.87	101.90	101.04	127.28
	72-82	181.71	122.26	103.19	108.31	9999.00	9999.00	-58.81	9999.00	9999.00	-58.81	9999.00	9999.00	-58.81	-94.81	-98.27
	83-89	-63.13	-39.27	-118.31	-123.14	9999.00	188.81	22.15	9999.00	188.81	22.15	9999.00	188.81	22.15	-101.75	-98.27
18 48	91-101	15.95	-121.93	-115.31	-103.50	-129.86	9999.00	143.43	-129.86	9999.00	143.43	-129.86	9999.00	143.43	145.89	116.35
	102-112	128.12	128.95	112.55	71.30	76.19	43.65	49.17	76.19	43.65	49.17	76.19	43.65	49.17	54.19	67.73
	113-120	178.54	46.42	99.75	112.55	-70.75	149.98	149.98	-70.75	149.98	149.98	-70.75	149.98	149.98	53.28	67.73
18 50	2-12	9999.00	105.75	130.20	112.97	105.75	100.18	102.33	105.75	100.18	102.33	105.75	100.18	102.33	100.18	-101.75
	13-23	107.03	107.46	142.61	145.99	130.20	129.78	71.30	130.20	129.78	71.30	130.20	129.78	71.30	345.76	9999.00
18 50	24-29	9999.00	-69.10	117.19	115.51	108.73	118.45	-101.75	108.73	118.45	-101.75	108.73	118.45	-101.75	189.99	9999.00
	31-41	77.07	77.07	91.97	94.14	205.19	204.42	106.60	205.19	204.42	106.60	205.19	204.42	106.60	167.37	108.73
	42-52	98.45	89.33	101.47	113.82	104.90	104.47	108.73	104.90	104.47	108.73	104.90	104.47	108.73	168.98	108.73
	53-59	107.03	107.03	107.88	112.13	111.70	111.70	108.73	111.70	111.70	108.73	111.70	111.70	108.73	9999.00	108.73
18 50	61-71	115.51	126.45	118.03	104.90	107.46	118.03	101.47	107.46	118.03	101.47	107.46	118.03	101.47	170.18	126.45
	72-82	174.17	121.00	101.90	106.18	9999.00	9999.00	-66.42	9999.00	9999.00	-66.42	9999.00	9999.00	-66.42	-108.78	-103.50
	83-89	-68.59	-46.06	-124.35	-126.80	9999.00	181.71	12.12	9999.00	181.71	12.12	9999.00	181.71	12.12	138.49	109.16
18 50	91-101	10.20	-126.80	-120.72	-110.55	-134.81	9999.00	135.60	-134.81	9999.00	135.60	-134.81	9999.00	135.60	48.25	60.99
	102-112	117.61	121.00	105.75	64.14	66.83	36.24	42.27	66.83	36.24	42.27	66.83	36.24	42.27	46.88	60.99
	113-120	186.05	40.42	100.18	112.55	-76.78	149.98	149.98	-76.78	149.98	149.98	-76.78	149.98	149.98	0.00	60.99

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-B (1-21-65)
 TEST POINT NO. 6, SOLAR OFF-5 LUNAR OFF, 2
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
18 52	2- 12	9999.00	105.75	128.95	112.97	106.18	100.18	102.33	106.18	103.19	100.18	-106.43
	13- 23	107.03	107.46	143.02	146.30	130.20	130.20	71.30	75.30	348.89	-107.60	9999.00
	24- 29	9999.00	-95.38	117.19	115.09	108.73	118.03					
	31- 41	76.19	77.07	93.71	93.71	197.81	196.25	-108.19	115.51	9999.00	182.11	101.47
	42- 52	98.45	88.05	101.04	112.97	104.47	104.04	106.60	104.04	165.77	168.18	108.73
18 52	53- 59	106.60	106.18	107.88	111.28	110.86	111.28	108.31	164.16	167.77	98.03	129.61
	61- 71	112.97	123.52	117.19	103.19	106.18	117.19	101.04	-37.71	-104.67	-113.52	-108.19
	72- 82	167.37	119.71	100.18	104.47	9999.00	9999.00	-72.93				
	83- 89	-74.03	-52.40	-129.25	-130.48	9999.00	174.17	2.44				
	91-101	4.89	-131.09	-124.97	-117.11	-139.80	9999.00	127.70	128.12	130.62	134.36	101.47
18 54	102-112	112.55	113.82	98.03	56.92	57.37	29.23	35.78	39.96	41.81	40.42	63.69
	113-120	192.73	33.91	99.75	112.13	-81.22	149.98	149.98	0.00			
	2- 12	9999.00	105.75	126.86	112.97	106.18	100.18	101.90	106.18	103.19	100.18	-112.93
	13- 23	107.03	107.46	143.02	146.30	129.78	129.78	70.41	74.86	352.71	-112.93	9999.00
	24- 29	9999.00	-101.75	116.77	114.66	108.73	117.61					
18 54	31- 41	75.74	76.19	92.41	93.71	190.77	188.81	-112.93	115.09	9999.00	174.97	101.47
	42- 52	98.03	87.18	100.61	112.55	104.47	104.04	104.47	104.04	164.56	166.97	108.73
	53- 59	106.13	105.75	107.46	110.96	110.43	110.43	107.88	161.74	165.37	96.74	124.77
	61- 71	110.85	120.58	116.35	101.47	105.32	115.93	100.61	-40.31	-109.96	-117.71	-112.33
	72- 82	160.94	118.45	99.32	102.76	9999.00	9999.00	-78.44				
18 54	83- 89	-78.44	-58.28	-132.95	-132.75	9999.00	166.97	-5.89				
	91-101	-0.98	-134.81	-129.86	-121.62	-143.58	9999.00	120.58	121.00	123.94	127.28	95.01
	102-112	105.75	107.46	92.41	51.90	49.17	23.09	29.70	33.91	35.78	34.38	48.71
	113-120	198.59	28.76	99.75	111.70	-84.02	149.98	149.98	0.00			
	2- 12	9999.00	105.75	125.61	112.97	106.18	99.75	101.90	106.18	103.19	100.18	-117.11
18 56	13- 23	107.03	107.46	143.02	146.71	129.37	129.78	69.96	74.41	355.14	-116.51	9999.00
	24- 29	9999.00	-105.84	116.35	114.66	108.73	116.77					
	31- 41	75.30	75.74	93.27	93.71	183.69	180.52	-116.51	114.66	9999.00	166.97	101.47
	42- 52	98.03	87.18	101.04	111.70	104.90	104.04	106.60	104.04	162.95	166.17	108.73
	53- 59	105.75	105.32	107.88	110.43	110.01	110.01	107.88	158.92	162.95	95.44	123.94
18 56	61- 71	108.73	117.19	115.51	100.61	114.66	114.66	100.18	-42.39	-114.12	-120.72	-115.31
	72- 82	154.85	117.19	98.03	101.74	9999.00	9999.00	-83.46				
	83- 89	-81.79	-62.59	-131.71	-134.18	9999.00	159.32	-13.82	114.66	117.19	120.58	88.93
	91-101	-5.40	-137.92	-132.95	-125.57	-145.49	9999.00	113.82	28.76	30.63	29.70	43.65
	102-112	99.32	101.04	86.74	45.94	41.81	17.87	24.51	0.00			
18 58	113-120	204.42	23.57	99.75	111.28	-86.83	149.98	149.98	0.00			
	2- 12	9999.00	105.32	123.52	112.97	106.18	100.18	101.90	106.18	103.19	100.18	-120.72
	13- 23	107.03	107.46	143.43	146.71	129.37	129.78	69.96	73.97	357.21	-119.51	9999.00
	24- 29	9999.00	-109.96	116.35	113.82	108.73	116.35					
	31- 41	74.85	75.30	92.84	93.27	178.16	172.57	-119.51	114.24	9999.00	159.73	101.04
18 58	42- 52	97.60	86.31	100.61	110.43	104.47	104.04	106.18	103.61	161.74	164.96	108.31
	53- 59	105.32	104.90	107.46	110.91	109.16	109.58	107.46	156.08	160.53	94.57	123.10
	61- 71	106.60	114.24	114.66	99.32	100.04	113.82	99.75	-45.01	-117.71	-123.75	-117.71
	72- 82	150.80	115.93	96.74	99.75	9999.00	9999.00	-86.83				
	83- 89	-84.02	-67.49	-139.17	-136.57	9999.00	152.02	-20.34	108.73	111.28	114.24	83.68
18 58	91-101	-10.84	-139.80	-136.05	-129.25	-148.68	9999.00	107.88	23.57	25.46	24.04	38.57
	102-112	93.27	95.44	81.04	39.49	34.38	12.12	18.82	0.00			
	113-120	209.43	18.34	98.89	110.43	-90.24	149.98	149.98				

APULD EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-9 (1-21-65)
 TEST POINT NO. 6, SOLAR OFF, L/JNAR OFF,
 THERMAL DUMMY HEATERS OFF

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
19 0	2-12	9999.00	105.32	121.84	112.55	106.18	99.75	101.47	106.18	102.76	100.18	-123.75					
	13-23	106.60	107.03	143.43	146.71	128.95	129.78	69.52	73.08	358.59	-122.54	9999.00					
19 0	24-29	9999.00	-113.52	115.51	113.40	108.31	115.51										
	31-41	74.85	74.96	93.71	93.27	168.98	164.96	-123.14	113.82	9999.00	152.02	101.04					
	42-52	97.17	82.43	100.18	109.58	104.47	103.61	106.18	103.61	160.13	163.36	108.31					
19 0	53-59	104.47	104.47	107.03	109.58	108.73	108.73	107.03	153.65	158.11	93.27	122.26					
	61-71	104.47	111.28	113.82	98.03	103.61	112.55	99.32	-47.11	-120.72	-126.18	-120.12					
	72-82	156.03	115.09	95.87	98.46	9999.00	9999.00	-90.81									
	83-89	-86.83	-71.84	-141.06	-137.92	9999.00	145.07	-25.91									
19 0	91-101	-15.32	-142.32	-137.92	-132.95	-151.24	9999.00	102.33	103.19	105.75	108.73	78.84					
	102-112	97.62	89.90	76.19	34.38	28.76	8.27	14.52	18.82	21.20	19.77	33.91					
	113-120	214.07	14.04	98.89	110.43	-92.52	149.98	149.98	0.00								
19 2	2-12	9999.00	104.90	119.71	112.55	106.18	99.75	101.47	106.18	103.19	100.18	-126.18					
	13-23	106.60	107.03	143.43	145.71	128.95	129.78	69.07	73.08	359.97	-125.57	9999.00					
19 2	24-29	9999.00	-115.91	115.09	112.97	108.31	115.09										
	31-41	74.41	74.96	93.27	93.27	162.15	158.11	-125.57	113.40	9999.00	144.66	101.04					
	42-52	97.17	84.56	100.18	109.73	104.47	104.04	105.75	103.19	158.51	162.15	108.31					
19 2	53-59	104.47	104.04	107.03	109.58	108.73	108.73	106.60	151.20	156.08	92.41	121.84					
	61-71	101.90	109.73	113.40	97.17	102.76	111.28	98.46	-48.69	-123.14	-128.02	-121.93					
	72-82	160.53	113.82	94.57	97.60	9999.00	9999.00	-94.23									
	83-89	-89.17	-75.12	9999.00	-139.17	9999.00	138.49	-31.01									
19 2	91-101	-19.84	-143.58	-140.43	-135.43	-153.83	9999.00	96.74	97.60	100.18	103.61	73.52					
	102-112	82.35	84.56	71.30	30.17	23.09	3.90	10.20	14.52	16.91	15.00	29.23					
	113-120	218.25	9.71	98.89	110.91	-94.81	149.98	149.98	0.00								
19 4	2-12	9999.07	104.90	117.61	112.52	106.18	99.75	101.04	106.18	102.76	100.18	-128.63					
	13-23	106.60	107.03	143.43	147.12	128.53	129.37	68.17	72.63	361.35	-127.41	9999.00					
19 4	24-29	9999.07	-115.91	114.66	112.55	108.31	114.66										
	31-41	73.97	74.41	91.97	92.84	154.86	150.80	-128.02	112.97	9999.00	137.67	100.61					
	42-52	96.74	83.58	99.75	107.98	174.47	103.61	105.75	103.19	156.89	160.94	107.88					
19 4	53-59	104.04	103.61	107.03	109.16	108.31	108.31	106.18									
	61-71	100.18	105.32	112.55	95.97	102.33	110.01	98.03	151.61	154.05	91.10	121.00					
	72-82	164.56	112.97	93.71	96.74	9999.00	9999.00	-97.11	-51.87	-126.18	-130.48	-123.75					
	83-89	-91.33	-78.99	-144.32	-140.43	9999.00	131.86	-35.13									
19 4	91-101	-23.37	-144.22	-142.32	-139.55	-155.78	9999.00	91.97	92.84	95.44	98.46	69.07					
	102-112	77.95	80.16	67.28	25.93	17.87	-0.49	6.33	10.68	13.08	11.16	25.46					
	113-120	222.11	5.33	98.45	109.58	-96.53	149.98	149.98	0.00								

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-9 (1-21-65)
 TEST POINT NO. 6, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT												
18 35	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	103.00	100.00	100.00	100.00	100.00	110.00	108.00
	B12-B22	124.00	111.00	128.00	105.00	111.00	97.00	100.00	97.00	97.00	114.00	112.00	112.00	127.00
	B23-B24	99.00	-0.00											
18 40	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	100.00	102.00	100.00	100.00	100.00	110.00	108.00	
	B12-B22	125.00	112.00	129.00	105.00	110.00	97.00	100.00	97.00	114.00	112.00	112.00	127.00	
	B23-B24	96.00	-0.00											
18 50	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	102.00	99.00	99.00	99.00	110.00	109.00	
	B12-B22	125.00	112.00	130.00	106.00	110.00	98.00	100.00	97.00	114.00	112.00	112.00	127.00	
	B23-B24	93.00	-0.00											
19 0	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	101.00	99.00	99.00	99.00	109.00	109.00	
	B12-B22	125.00	112.00	129.00	106.00	110.00	98.00	100.00	97.00	113.00	111.00	111.00	127.00	
	B23-B24	91.00	-0.00											
19 7	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	101.00	98.00	99.00	99.00	109.00	109.00	
	B12-B22	125.00	112.00	129.00	106.00	109.00	97.00	100.00	97.00	113.00	110.00	110.00	126.00	
	B23-B24	90.00	-0.00											

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-B (1-21-65)
 TEST POINT NO. 7, SOLAR DN., HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, BACK FACING SOLAR

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT											
19 7	2-12	9999.00	104.47	115.51	112.13	105.75	99.32	101.04	106.18	102.76	100.18	-131.09	
	13-23	106.18	107.03	143.43	147.12	128.12	128.95	67.73	71.74	-127.41	-129.86	9999.00	
	24-29	9999.00	-121.32	114.24	112.13	107.88	113.82	-130.48	112.13	9999.00	130.20	100.61	
19 7	31-41	73.97	73.97	91.10	92.41	147.53	143.02	105.32	103.19	155.27	159.73	107.46	
	42-52	96.31	83.24	99.75	107.03	104.47	103.19	105.32	103.19	155.27	159.73	107.46	
	53-59	104.04	103.19	107.03	108.73	107.46	108.31	106.18	145.89	151.61	90.23	121.00	
19 7	61-71	97.17	102.33	111.70	95.44	101.90	109.16	97.60	-52.93	-129.25	-132.33	-125.57	
	72-82	130.62	112.55	92.84	95.44	9999.00	9999.00	-101.75	88.05	90.23	93.27	63.69	
	83-89	-94.23	-81.78	-146.76	-141.06	9999.00	124.77	-40.31	6.33	9.23	7.30	21.20	
19 7	91-101	-27.44	-146.12	-144.22	-140.43	-158.39	9999.00	86.74	9999.00	9999.00	9999.00	9999.00	
	102-112	73.08	75.30	62.34	21.67	12.60	-4.41	1.96	9999.00	9999.00	9999.00	9999.00	
	113-120	67.28	1.47	98.46	110.71	-98.84	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	
19 9	2-12	9999.00	104.04	113.40	112.13	105.75	99.75	100.61	106.18	102.76	100.18	-128.63	
	13-23	106.18	107.03	143.43	147.12	127.70	128.95	67.73	71.74	-11.33	22.62	9999.00	
	24-29	9999.00	34.84	113.82	111.70	107.46	112.97	69.96	111.70	9999.00	132.70	100.18	
19 9	31-41	73.97	73.97	91.54	92.41	140.96	136.43	105.32	102.76	153.65	158.11	107.46	
	42-52	95.87	82.36	98.89	105.75	104.04	102.76	105.32	102.76	153.65	158.11	107.46	
	53-59	103.19	102.76	106.60	108.31	107.46	107.46	97.17	143.02	148.76	89.36	119.71	
19 9	61-71	95.01	99.75	110.86	94.14	101.47	107.88	-78.44	61.89	-22.36	79.72	-6.88	
	72-82	126.85	110.86	91.97	94.57	9999.00	9999.00	-20.85	101.90	101.04	101.47	115.09	
	83-89	-64.27	127.28	-98.84	-110.55	9999.00	139.73	100.61	124.35	116.35	119.71	131.45	
19 9	91-101	121.84	56.92	64.14	-102.91	-101.75	9999.00	115.51	9999.00	9999.00	9999.00	9999.00	
	102-112	105.75	104.04	123.52	143.43	141.38	109.58	9999.00	106.18	102.76	102.76	99.75	
	113-120	120.53	121.84	98.03	109.16	-33.07	9999.00	9999.00	106.18	102.76	102.76	99.75	
19 11	2-12	9999.00	104.04	111.28	111.70	105.75	99.32	100.18	74.41	163.76	181.32	9999.00	
	13-23	106.18	106.60	143.43	147.12	127.70	128.53	71.74	111.28	9999.00	142.20	100.18	
	24-29	9999.00	188.81	113.40	110.86	107.03	112.55	193.52	102.76	152.02	156.89	107.03	
19 11	31-41	73.52	73.97	92.41	92.41	138.49	135.18	104.90	102.76	152.02	156.89	107.03	
	42-52	95.87	82.36	98.46	104.90	104.04	102.76	105.32	141.38	147.12	144.25	147.12	
	53-59	103.19	102.76	106.18	109.31	106.60	107.03	96.74	147.53	145.89	152.02	102.76	
19 11	61-71	92.84	96.74	110.43	93.71	101.04	106.60	21.67	106.18	102.76	102.76	99.75	
	72-82	147.53	146.30	91.54	94.14	9999.00	9999.00	39.49	120.58	118.03	116.35	143.43	
	83-89	48.71	201.31	51.00	-4.41	9999.00	152.02	160.94	166.17	160.53	164.16	165.37	
19 11	91-101	185.65	139.73	156.89	24.74	46.42	9999.00	9999.00	106.18	102.76	102.76	99.75	
	102-112	120.53	128.12	152.83	185.56	179.34	158.11	9999.00	105.75	102.76	102.76	99.75	
	113-120	143.43	165.77	97.60	108.73	63.69	9999.00	9999.00	78.40	199.76	208.29	9999.00	
19 13	2-12	9999.00	103.19	109.58	111.28	105.75	98.89	100.18	110.86	9999.00	145.07	99.75	
	13-23	106.18	106.60	143.43	145.71	127.28	128.12	77.95	102.33	151.20	155.68	107.03	
	24-29	9999.00	215.50	112.97	110.43	106.60	112.13	212.91	102.33	151.20	155.68	107.03	
19 13	31-41	73.52	73.52	92.41	91.97	139.73	136.01	104.90	141.38	147.12	89.80	118.45	
	42-52	95.44	81.48	98.03	104.04	104.04	102.33	104.90	138.08	128.12	182.11	121.00	
	53-59	102.75	102.33	106.18	109.31	106.18	106.60	96.30	131.11	129.37	127.70	154.05	
19 13	61-71	91.10	95.01	109.58	94.14	100.61	105.75	57.37	133.11	129.37	127.70	154.05	
	72-82	123.10	110.01	109.58	94.14	100.61	105.75	131.86	174.17	168.98	172.97	173.37	
	83-89	82.35	214.07	79.28	94.57	9999.00	154.05	9999.00	9999.00	9999.00	9999.00	9999.00	
19 13	91-101	193.91	152.02	168.99	61.49	69.07	9999.00	169.38	9999.00	9999.00	9999.00	9999.00	
	102-112	133.11	140.14	162.95	193.12	186.84	166.17	169.38	9999.00	9999.00	9999.00	9999.00	
	113-120	154.05	173.77	97.60	108.73	82.80	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	

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APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-3 (1-21-65)
 TEST POINT NO. 7, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, BACK FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

19 15	2- 12	9999.00	102.76	108.31	111.28	105.32	98.89	99.75	105.75	102.76	99.75	70.41
	13- 23	105.75	106.18	143.02	146.71	126.86	128.12	80.16	81.04	207.13	213.30	9999.00
	24- 29	9999.00	221.72	112.55	110.01	106.18	111.28					
19 15	31- 41	73.52	73.52	91.97	91.54	141.79	138.08	217.90	110.43	9999.00	147.94	99.75
	42- 52	95.44	81.04	98.03	104.34	104.04	102.33	104.47	101.90	150.39	155.27	106.60
	53- 59	103.19	102.33	105.11	105.75	106.18	104.98	104.98				
19 15	61- 71	90.23	93.27	110.01	95.44	101.04	105.32	95.87	141.79	147.12	91.97	118.45
	72- 82	125.61	110.01	92.41	95.44	9999.00	9999.00	70.41	143.02	131.86	184.87	174.17
	83- 89	92.41	218.28	84.56	29.73	9999.00	156.89	101.47				
19 15	91-101	197.42	155.27	171.78	72.19	73.97	9999.00	141.79	142.61	139.32	136.43	162.95
	102-112	143.43	149.16	169.78	197.91	191.56	170.18	173.77	178.15	173.37	177.35	177.35
	113-120	162.15	178.15	97.17	108.31	90.23	9999.00	9999.00	9999.00			
19 17	2- 12	9999.00	102.33	106.60	111.28	105.32	98.46	99.75	105.32	102.33	99.75	76.63
	13- 23	105.75	106.18	143.02	146.71	126.86	127.70	82.36	82.80	209.45	215.22	9999.00
	24- 29	9999.00	223.53	111.70	109.58	106.18	111.28					
19 17	31- 41	73.52	73.52	91.97	91.10	144.66	141.79	218.67	110.01	9999.00	152.43	99.75
	42- 52	95.44	80.16	97.60	103.19	104.04	101.90	104.47	101.90	149.16	154.05	106.60
	53- 59	104.04	102.76	105.75	108.11	106.18	106.60	104.90				
19 17	61- 71	89.80	92.41	110.43	96.74	102.33	104.90	95.87	142.61	147.53	93.27	118.87
	72- 82	130.62	110.86	93.71	97.60	9999.00	9999.00	78.84	145.07	134.36	186.84	127.28
	83- 89	97.60	221.72	87.18	32.14	9999.00	160.13	116.77				
19 17	91-101	199.75	157.30	174.17	79.28	76.19	9999.00	150.80	151.20	147.53	145.48	169.38
	102-112	152.43	157.30	176.55	201.11	191.95	174.17	177.75	182.11	177.35	181.32	182.11
	113-120	169.53	181.32	96.74	108.31	94.57	9999.00	9999.00	9999.00			
19 19	2- 12	9999.00	101.90	105.75	110.96	105.32	98.46	99.75	105.32	102.33	99.75	80.60
	13- 23	105.75	105.18	143.02	146.71	126.86	127.28	82.36	83.68	211.76	216.75	9999.00
	24- 29	9999.00	225.92	111.70	109.58	105.75	111.28					
19 19	31- 41	73.52	73.52	91.10	91.10	148.35	145.07	220.96	110.01	9999.00	156.08	99.75
	42- 52	95.01	80.60	97.60	102.76	102.76	101.90	104.04	101.47	148.76	154.05	106.60
	53- 59	134.04	103.19	105.32	108.31	106.60	106.60	104.90				
19 19	51- 71	89.80	92.84	110.85	98.46	104.04	104.90	95.87	143.43	148.35	95.44	120.13
	72- 82	136.43	111.70	95.44	99.75	9999.00	9999.00	84.99	146.30	136.01	188.42	129.37
	83- 89	101.47	224.01	89.80	33.91	9999.00	163.76	127.70				
19 19	91-101	201.70	158.92	175.76	83.24	78.84	9999.00	158.92	158.11	154.86	152.83	176.16
	102-112	160.13	164.56	181.71	204.42	199.37	177.35	180.92	185.66	180.52	184.48	185.66
	113-120	175.35	184.87	96.74	108.31	98.46	9999.00	9999.00	9999.00			
19 21	2- 12	9999.00	101.47	104.47	110.43	104.90	98.46	99.75	105.32	101.90	99.75	84.12
	13- 23	105.32	105.75	142.61	146.71	126.86	126.86	82.80	84.12	213.30	219.05	9999.00
	24- 29	9999.00	227.92	111.28	109.16	105.75	111.28					
19 21	31- 41	73.52	73.52	91.10	91.10	152.83	150.39	222.87	109.58	9999.00	160.13	99.75
	42- 52	94.57	80.16	97.60	102.76	103.61	101.47	104.47	101.47	148.76	153.65	106.60
	53- 59	104.47	104.04	105.32	108.73	107.03	107.03	104.90				
19 21	51- 71	89.80	93.27	111.70	100.18	104.90	104.90	95.87	144.66	149.16	96.30	121.00
	72- 82	142.61	112.55	96.74	101.47	9999.00	9999.00	91.10	148.35	139.73	190.77	131.86
	83- 89	105.75	227.44	93.27	36.71	9999.00	167.37	136.84				
19 21	91-101	204.81	161.34	178.15	87.18	82.36	9999.00	165.37	165.37	161.74	159.32	181.71
	102-112	166.97	170.98	186.45	208.29	203.26	181.32	185.27	189.20	184.48	188.42	189.60
	113-120	180.92	188.42	96.74	108.73	102.33	9999.00	9999.00	9999.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. 11-B (1-21-65)
 TEST POINT NO. 7, SOLAR ON, HOT LUNAR SURFACE,
 THERMA DUMMY HEATERS OFF, BACK FACING SOLAR

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
19 23	2- 12	9999.00	101.04	104.47	110.96	104.90	98.46	98.89	105.32	102.33	99.75	88.05	
	13- 23	105.32	143.02	146.71	126.86	126.86	126.86	83.68	84.99	215.98	220.96	9999.00	
	24- 29	9999.00	229.33	111.28	109.16	105.75	111.70						
	31- 41	73.52	73.97	91.54	91.10	157.70	154.46	224.39	110.01	9999.00	164.16	98.89	
	42- 52	94.57	80.60	97.32	102.33	103.19	101.47	105.32	101.47	148.35	152.83	106.60	
19 23	53- 59	104.90	104.04	105.32	109.16	107.88	107.46	105.32	145.89	149.57	97.60	121.84	
	61- 71	90.23	94.14	112.13	101.47	106.18	105.32	95.87	149.57	141.79	192.34	133.94	
	72- 82	148.35	113.82	98.03	103.61	9999.00	9999.00	95.87					
	83- 89	108.73	229.33	95.87	38.57	9999.00	171.38	144.25					
	91-101	206.74	162.55	179.73	89.80	84.56	9999.00	172.17	171.38	168.18	165.37	186.84	
19 23	102-112	173.77	176.16	190.77	210.99	206.74	183.69	188.42	192.34	186.84	191.56	192.73	
	113-120	185.65	191.17	96.74	108.73	105.32	9999.00	9999.00	9999.00				
	2- 12	9999.00	100.61	104.04	110.43	104.90	98.03	98.89	105.32	102.33	99.75	91.10	
	13- 23	105.32	105.75	142.61	145.30	126.86	126.86	85.87	85.87	217.52	222.49	9999.00	
	24- 29	9999.00	231.23	111.29	109.16	105.32	112.13						
19 25	31- 41	73.97	73.97	91.10	91.10	162.15	159.73	225.92	110.01	9999.00	168.58	98.89	
	42- 52	94.57	80.16	97.17	101.90	103.19	101.47	104.04	101.04	148.35	152.43	106.18	
	53- 59	105.32	104.47	105.32	102.58	108.31	108.31	105.32					
	61- 71	90.67	95.87	112.97	102.76	107.03	105.75	96.30	146.71	150.39	98.89	122.68	
	72- 82	154.05	114.66	99.75	104.90	9999.00	9999.00	96.89	150.80	143.02	193.52	135.18	
19 25	83- 89	110.85	230.95	97.17	39.49	9999.00	175.36	150.39					
	91-101	208.67	163.76	180.92	92.41	86.31	9999.00	177.35	176.56	173.37	170.98	191.17	
	102-112	178.94	181.71	195.09	214.07	209.45	186.06	191.17	195.08	189.60	193.91	195.47	
	113-120	189.99	193.52	96.30	109.16	107.03	9999.00	9999.00	9999.00				
	2- 12	9999.00	100.18	104.04	110.43	104.90	98.03	98.89	105.32	102.33	99.32	92.84	
19 27	13- 23	105.32	105.75	142.61	145.30	126.86	126.45	84.56	86.31	218.28	222.49	9999.00	
	24- 29	9999.00	231.61	111.29	109.58	105.32	112.55						
	31- 41	74.41	74.86	91.10	91.10	167.37	164.96	225.92	110.01	9999.00	172.57	98.46	
	42- 52	94.14	80.16	97.17	101.90	103.19	101.04	104.04	101.04	148.35	152.43	106.18	
	53- 59	105.75	104.47	105.32	110.91	108.73	108.73	105.75					
19 27	61- 71	91.10	97.17	113.40	104.04	108.31	106.18	96.30	147.53	151.20	99.75	123.10	
	72- 82	159.32	115.51	100.18	106.18	9999.00	9999.00	101.90	151.20	144.25	193.91	136.01	
	83- 89	112.97	231.99	98.89	40.98	9999.00	179.34	154.46					
	91-101	210.22	164.56	182.11	93.71	87.62	9999.00	182.11	181.71	178.15	176.16	195.08	
	102-112	183.69	186.06	198.59	216.37	212.53	188.42	193.91	197.81	192.73	196.25	198.59	
19 29	113-120	193.91	196.25	96.30	109.58	108.73	9999.00	9999.00	9999.00				
	2- 12	9999.00	100.18	104.47	110.43	104.90	98.03	98.89	104.90	102.33	98.89	95.01	
	13- 23	105.32	105.75	142.61	145.30	126.86	126.45	84.99	86.74	220.58	224.77	9999.00	
	24- 29	9999.00	233.88	111.29	109.58	105.32	112.55						
	31- 41	74.85	74.86	91.10	91.10	172.17	170.58	228.20	110.43	9999.00	177.35	98.46	
19 29	42- 52	94.14	80.16	96.74	101.47	103.19	101.04	104.04	101.04	148.35	152.43	106.18	
	53- 59	106.18	104.90	105.32	110.91	108.73	108.73	105.75					
	61- 71	91.97	98.89	114.24	104.90	108.73	106.60	96.30	148.76	152.02	100.61	123.94	
	72- 82	163.75	116.35	101.47	107.98	9999.00	9999.00	106.18	152.83	147.53	196.64	138.90	
	83- 89	116.77	235.01	102.33	43.65	9999.00	184.08	159.73					
19 29	91-101	213.30	166.57	184.49	97.60	91.10	9999.00	186.84	185.66	182.90	180.92	199.37	
	102-112	188.02	189.99	202.48	219.05	215.98	191.95	197.03	200.93	195.08	200.15	201.31	
	113-120	198.59	199.37	96.30	109.58	112.13	9999.00	9999.00	9999.00				
	2- 12	9999.00	100.18	104.47	110.43	104.90	98.03	98.89	104.90	102.33	98.89	95.01	
	13- 23	105.32	105.75	142.61	145.30	126.86	126.45	84.99	86.74	220.58	224.77	9999.00	

A20-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-3 (1-21-65)
 TEST POINT NO. 7, SOLAR ON, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, BACK FACING SOLAR

TEMPERATURES - FAHRENHEIT

TIME	C-CHANNELS	9999.00	99.75	104.90	110.43	104.47	98.03	98.89	104.90	101.90	98.89	98.03	98.03
19 31	2- 12	9999.00	99.75	104.90	110.43	104.47	98.03	98.89	104.90	101.90	98.89	98.03	98.03
	13- 23	105.32	105.75	142.20	146.30	127.28	126.03	85.43	87.18	222.11	225.92	9999.00	9999.00
	24- 29	9999.00	235.01	111.29	109.58	105.32	112.97						
19 31	31- 41	75.30	75.30	91.10	91.10	177.35	176.16	229.33	110.43	9999.00	182.11	98.46	98.46
	42- 52	94.14	80.16	96.74	101.47	102.76	100.61	103.61	100.61	148.76	152.02	106.18	106.18
	53- 59	106.19	103.32	105.32	110.43	109.16	109.16	106.18	150.39	152.83	101.47	124.35	124.35
19 31	61- 71	92.41	100.61	114.66	103.75	109.16	107.03	96.74	154.05	149.57	197.81	140.55	140.55
	72- 82	168.19	117.19	102.33	108.73	9999.00	9999.00	108.73					
	83- 89	118.45	237.27	104.47	45.04	9999.00	188.42	163.76					
19 31	91-101	215.60	165.18	186.45	100.18	94.14	9999.00	191.17	189.99	186.84	184.48	202.87	202.87
	102-112	192.34	194.30	205.97	221.72	218.67	194.69	200.15	204.03	198.98	202.87	204.81	204.81
	113-120	202.09	202.48	96.30	110.01	114.66	9999.00	9999.00	9999.00				
19 33	2- 12	9999.00	99.75	105.32	110.43	104.47	97.60	98.89	104.90	101.90	98.89	101.47	101.47
	13- 23	104.90	103.32	142.20	146.30	127.28	126.03	85.87	87.62	224.39	228.20	9999.00	9999.00
	24- 29	9999.00	237.27	111.28	110.01	105.32	113.40						
19 33	31- 41	75.30	75.74	91.54	91.10	182.90	182.11	231.23	110.86	9999.00	187.24	98.46	98.46
	42- 52	94.14	80.60	96.74	101.47	102.76	100.61	103.61	100.61	148.76	152.02	106.18	106.18
	53- 59	106.60	103.75	105.32	110.46	109.58	109.58	106.18	151.20	153.65	102.33	125.19	125.19
19 33	61- 71	93.27	102.76	115.09	106.50	110.01	107.46	97.17	155.27	153.24	200.15	143.43	143.43
	72- 82	172.17	118.03	103.19	109.58	9999.00	9999.00	112.97					
	83- 89	122.25	239.16	108.31	48.25	9999.00	193.52	168.18					
19 33	91-101	217.97	169.78	188.02	103.61	97.17	9999.00	194.69	193.52	190.77	188.42	206.74	206.74
	102-112	196.23	197.81	209.06	224.01	220.96	197.81	203.26	206.74	201.70	205.58	207.13	207.13
	113-120	205.53	205.19	95.87	110.43	117.61	9999.00	9999.00	9999.00				
19 35	2- 12	9999.00	95.89	106.18	110.43	104.47	97.60	98.89	104.90	101.90	98.89	104.47	104.47
	13- 23	104.90	103.32	142.20	145.89	127.28	125.61	86.74	88.05	226.30	230.09	9999.00	9999.00
	24- 29	9999.00	239.16	111.70	110.01	105.32	113.82						
19 35	31- 41	75.74	75.74	91.10	90.67	189.20	189.20	233.50	110.86	9999.00	192.73	98.03	98.03
	42- 52	94.14	80.60	96.30	101.04	102.76	100.61	103.19	100.61	149.16	152.02	107.03	107.03
	53- 59	107.03	103.32	105.32	111.28	110.01	110.01	106.60	152.43	154.46	102.76	125.19	125.19
19 35	61- 71	93.71	104.47	115.51	107.46	110.43	108.31	97.17	156.49	155.27	201.31	145.07	145.07
	72- 82	175.75	118.45	104.04	110.43	9999.00	9999.00	115.93					
	83- 89	124.77	241.04	109.59	49.53	9999.00	198.59	171.78					
19 35	91-101	219.81	170.98	189.60	105.75	98.89	9999.00	198.98	197.81	193.91	191.95	209.45	209.45
	102-112	200.15	201.31	211.75	225.30	223.25	199.76	205.19	209.06	203.64	207.51	209.45	209.45
	113-120	208.29	207.13	95.87	110.43	117.71	9999.00	9999.00	9999.00				
19 37	2- 12	9999.00	95.46	107.03	110.43	104.47	97.60	98.89	104.90	101.90	98.89	106.18	106.18
	13- 23	104.90	103.32	142.20	145.89	127.28	125.61	86.74	88.49	226.68	230.09	9999.00	9999.00
	24- 29	9999.00	239.16	111.70	110.43	105.32	114.24						
19 37	31- 41	76.19	75.74	91.10	91.10	196.25	197.03	233.12	111.28	9999.00	198.98	98.03	98.03
	42- 52	94.14	81.04	96.30	101.04	102.76	100.18	103.19	100.61	149.57	152.02	107.03	107.03
	53- 59	107.03	106.18	105.32	111.70	110.43	110.43	106.60	153.65	155.68	104.04	125.61	125.61
19 37	61- 71	94.57	106.18	116.35	109.31	110.86	108.73	97.60	157.30	156.49	202.48	146.30	146.30
	72- 82	179.34	119.29	104.47	111.28	9999.00	9999.00	117.61					
	83- 89	126.03	242.16	110.86	49.71	9999.00	204.42	174.17					
19 37	91-101	220.53	170.98	189.20	105.75	97.60	9999.00	201.70	200.54	197.03	195.08	211.76	211.76
	102-112	203.25	203.54	213.30	225.58	224.01	200.15	205.58	208.67	203.64	208.29	209.06	209.06
	113-120	209.45	205.74	95.87	110.46	116.77	9999.00	9999.00	9999.00				

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APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-3 (1-21-65)
 TEST POINT NO. 7, SOLAR ON, HOT LUNAR SURFACE,
 THERMA DUMMY HEATERS OFF, BACK FACING SOLAR

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
		9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
19 7	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	101.00	98.00	99.00	109.00	109.00	109.00
	B12-B22	125.00	112.00	129.00	106.00	109.00	97.00	100.00	97.00	113.00	110.00	126.00	
	B23-B24	90.00	-0.00										
19 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	100.00	100.00	98.00	99.00	108.00	109.00	
	B12-B22	125.00	111.00	128.00	106.00	109.00	97.00	100.00	97.00	112.00	110.00	126.00	
	B23-B24	90.00	-0.00										
19 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	99.00	98.00	98.00	107.00	108.00	
	B12-B22	123.00	110.00	127.00	105.00	107.00	96.00	100.00	96.00	112.00	109.00	124.00	
	B23-B24	93.00	-0.00										
19 30	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	99.00	97.00	98.00	106.00	107.00	
	B12-B22	122.00	110.00	126.00	105.00	107.00	96.00	100.00	96.00	112.00	110.00	124.00	
	B23-B24	93.00	-0.00										
19 41	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	97.00	99.00	96.00	97.00	106.00	107.00	
	B12-B22	121.00	110.00	125.00	104.00	107.00	96.00	99.00	96.00	112.00	110.00	123.00	
	B23-B24	94.00	-0.00										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-B (1-21-65 AND 1-22-65)
 TEST POINT NO. 8, SO AR OFF, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
22 32	2- 12	9999.00	112.93	153.65	121.00	112.13	113.82	105.75	112.55	114.24	108.31	214.07					
	13- 23	118.03	115.77	159.73	162.15	147.94	144.66	136.01	138.90	108.31	106.60	9999.00					
22 32	24- 29	9999.00	107.46	110.01	109.31	105.75	110.43	105.32	108.31	9999.00	241.41	107.03					
	31- 41	76.19	77.95	295.11	103.51	247.78	249.27	129.37	104.04	189.99	193.12	153.24					
22 32	42- 52	118.03	127.70	112.97	102.33	110.86	123.10	156.49	200.54	201.70	107.46	197.42					
	53- 59	166.97	157.70	134.77	163.76	159.32	166.17	222.87	40.42	127.28	95.44	100.18					
22 32	61- 71	88.93	156.89	110.01	109.58	170.18	131.86	170.98	224.77	222.87	221.72	229.71					
	72- 82	152.02	112.55	105.75	109.16	9999.00	9999.00	226.30	218.28	211.37	216.37	220.58					
22 32	93- 89	236.14	9999.00	9999.00	127.70	9999.00	234.63	170.98	0.00								
	91-101	140.55	71.74	91.97	230.47	228.58	9999.00	226.30	224.77	222.87	221.72	229.71					
22 32	102-112	227.44	224.39	230.47	236.90	235.39	209.06	213.68	218.28	211.37	216.37	220.58					
	113-120	229.71	214.07	118.03	160.53	197.81	149.98	149.98	0.00								
22 35	2- 12	9999.00	116.77	153.65	121.00	112.55	113.82	106.18	112.97	114.24	108.31	182.90					
	13- 23	118.03	115.77	160.53	162.95	147.94	145.07	132.70	135.18	105.75	104.04	9999.00					
22 35	24- 29	9999.00	104.90	110.01	108.31	105.75	110.43	103.19	108.31	9999.00	239.53	107.03					
	31- 41	76.19	77.07	282.07	104.04	247.03	248.90	129.37	104.04	189.99	193.52	153.65					
22 35	42- 52	118.45	129.12	113.40	102.35	110.86	123.10	156.49	200.54	201.70	108.31	193.12					
	53- 59	165.37	156.08	134.77	162.95	158.11	164.96	164.16	38.10	118.87	93.27	97.60					
22 35	61- 71	89.80	157.30	110.01	109.58	167.77	170.18	131.86	210.99	211.37	212.53	197.81					
	72- 82	152.02	112.55	106.18	109.16	9999.00	9999.00	212.91	163.76	165.37	164.56	168.58					
22 35	93- 89	145.07	9999.00	118.03	60.54	233.50	159.32	149.98	0.00								
	91-101	136.01	67.07	88.49	162.92	109.58	9999.00	212.91	210.99	211.37	212.53	197.81					
22 35	102-112	212.53	203.26	195.03	215.28	221.72	165.77	162.15	163.76	165.37	164.56	168.58					
	113-120	200.54	160.13	118.03	160.13	131.86	149.98	149.98	0.00								
22 37	2- 12	9999.00	115.77	154.05	121.00	112.55	114.24	106.18	112.97	114.66	108.31	180.92					
	13- 23	118.03	115.77	160.53	163.36	148.35	145.89	121.00	123.94	104.47	102.76	9999.00					
22 37	24- 29	9999.00	104.04	110.01	108.73	105.32	110.43	101.90	108.31	9999.00	237.65	107.03					
	31- 41	76.63	77.95	248.90	104.04	245.91	247.41	129.37	104.04	189.99	193.52	152.83					
22 37	42- 52	118.45	127.70	113.40	102.76	110.86	123.52	153.24	198.59	200.93	107.46	184.08					
	53- 59	160.13	152.02	133.94	159.73	154.05	159.73	141.79	36.24	117.19	91.97	95.87					
22 37	61- 71	89.35	157.30	109.15	109.58	160.94	165.37	151.03	203.64	204.03	205.58	191.17					
	72- 82	151.61	111.70	105.32	108.73	9999.00	9999.00	157.30	158.92	160.53	158.92	163.36					
22 37	93- 89	129.37	104.90	104.47	46.42	9999.00	234.63	152.43	0.00								
	91-101	134.77	67.28	88.05	184.08	98.03	9999.00	205.19	203.64	204.03	205.58	191.17					
22 37	102-112	205.19	195.25	188.42	174.17	176.95	159.73	157.30	158.92	160.53	158.92	163.36					
	113-120	193.12	154.86	118.45	156.08	118.87	149.98	149.98	0.00								
22 40	2- 12	9999.00	115.77	153.65	121.42	112.55	114.24	106.60	112.97	114.66	108.31	189.99					
	13- 23	118.03	117.19	160.94	163.36	148.35	145.07	116.77	118.45	104.04	102.76	9999.00					
22 40	24- 29	9999.00	104.04	110.01	109.73	106.18	110.43	101.90	107.88	9999.00	9999.00	107.03					
	31- 41	77.95	78.40	9999.00	104.04	244.79	247.03	129.37	104.04	189.99	193.12	151.61					
22 40	42- 52	118.87	127.70	113.82	102.76	110.28	123.52	149.16	197.42	200.15	107.46	178.94					
	53- 59	156.49	148.35	133.53	157.30	150.39	155.68	131.86	35.78	116.77	91.97	95.44					
22 40	61- 71	89.35	156.89	109.15	109.58	156.08	163.76	130.62	197.42	200.15	107.46	178.94					
	72- 82	151.20	111.28	105.32	108.73	9999.00	9999.00	131.86	35.78	116.77	91.97	95.44					
22 40	93- 89	125.61	103.32	102.33	43.19	9999.00	231.99	147.94	197.42	197.81	199.76	185.66					
	91-101	134.77	67.28	88.05	191.17	95.44	9999.00	198.98	197.42	197.81	199.76	185.66					
22 40	102-112	197.81	189.99	183.29	169.78	172.57	152.43	153.65	155.27	156.89	155.68	159.73					
	113-120	187.63	152.02	118.45	153.65	114.24	149.98	149.98	0.00								

APO-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-8 (1-21-65 AND 1-22-65)
 TEST POINT NO. 8, SOLAR OFF, HSI LUNAR SURFACE,
 THERM. DUMMY THERMISTERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT												
22 42	2- 12	9999.00	117.19	154.05	121.42	112.55	114.24	107.03	113.40	115.09	106.31	193.91		
	13- 23	118.45	117.19	161.34	163.76	148.76	145.89	113.40	114.66	104.04	102.76	9999.00		
	24- 29	9999.00	104.04	110.01	108.73	106.18	110.01							
22 42	31- 41	82.36	81.92	232.37	104.47	244.04	245.91	101.90	108.31	9999.00	234.63	108.31		
	42- 52	118.87	127.28	113.82	103.19	111.28	123.94	129.37	104.04	190.77	193.12	150.80		
	53- 59	153.65	145.89	132.28	155.27	147.12	152.43	146.71						
22 42	51- 71	89.35	156.49	109.16	109.16	152.83	162.15	129.78	195.86	199.37	107.03	175.36		
	72- 82	151.20	111.28	105.32	108.73	9999.00	9999.00	126.03	35.31	116.35	91.97	95.44		
	83- 89	123.52	104.90	101.04	41.81	9999.00	231.61	145.89						
22 42	91-101	134.35	67.73	88.49	193.52	94.14	9999.00	193.12	193.12	193.12	193.91	181.32		
	102-112	191.56	185.66	179.34	167.37	169.78	149.57	151.61	152.83	154.05	153.24	156.89		
	113-120	183.69	149.57	118.45	151.61	112.97	149.98	149.98	0.00					
22 44	2- 12	9999.00	117.19	154.05	121.84	112.97	114.24	108.31	113.40	115.51	108.31	195.47		
	13- 23	118.45	116.77	161.34	164.16	148.76	146.30	110.86	111.70	105.32	104.47	9999.00		
	24- 29	9999.00	104.90	110.01	108.73	106.18	110.01							
22 44	31- 41	83.24	83.24	230.09	104.90	243.66	245.54	104.04	107.46	9999.00	233.88	108.31		
	42- 52	118.45	126.96	114.24	103.19	111.28	123.94	129.37	104.47	189.99	192.73	149.57		
	53- 59	151.20	143.02	131.45	153.24	145.89	150.80	144.25						
22 44	51- 71	89.35	156.08	109.16	109.16	150.39	160.94	129.37	193.91	197.81	108.31	172.17		
	72- 82	151.61	110.86	105.32	108.73	9999.00	9999.00	123.94	37.17	118.03	93.71	97.60		
	83- 89	123.52	106.60	101.90	42.27	9999.00	230.85	143.84						
22 44	91-101	135.18	69.07	90.23	193.52	95.44	9999.00	188.81	188.42	189.20	189.99	178.15		
	102-112	187.24	182.11	176.16	165.37	167.37	148.76	149.57	151.61	153.24	151.61	155.27		
	113-120	180.13	148.76	118.45	149.16	112.55	149.98	149.98	0.00					
22 46	2- 12	9999.00	117.19	153.65	121.42	112.55	114.66	108.31	113.40	115.09	107.88	195.86		
	13- 23	118.87	117.19	161.74	164.16	149.16	146.71	112.55	112.97	106.60	105.32	9999.00		
	24- 29	9999.00	106.18	109.58	108.73	106.18	110.01							
22 46	31- 41	78.40	79.28	224.01	104.04	242.54	245.16	104.47	107.46	9999.00	233.50	108.31		
	42- 52	118.45	126.03	114.24	104.04	111.28	123.94	129.37	104.47	189.99	192.73	147.94		
	53- 59	148.76	140.96	131.03	151.51	143.43	153.24	142.61						
22 46	51- 71	88.93	155.68	108.73	109.16	152.83	159.73	128.12	193.52	197.81	108.31	170.18		
	72- 82	151.61	110.86	105.32	108.31	9999.00	9999.00	122.26	37.17	118.87	95.44	98.03		
	83- 89	122.69	107.46	102.33	42.73	9999.00	229.71	142.20						
22 46	91-101	135.18	69.96	91.10	192.73	95.44	9999.00	184.87	184.48	185.27	186.06	174.17		
	102-112	184.03	178.94	172.97	163.36	164.56	147.12	148.35	149.57	151.61	149.57	153.24		
	113-120	176.55	147.12	118.45	147.53	112.55	149.98	149.98	0.00					
22 47	2- 12	9999.00	117.19	153.24	121.84	112.97	114.66	107.46	113.40	115.51	108.73	196.64		
	13- 23	118.45	117.19	161.74	164.16	149.57	146.71	111.70	112.55	106.60	105.32	9999.00		
	24- 29	9999.00	106.60	109.58	108.73	106.18	109.58							
22 47	31- 41	77.95	77.95	215.60	104.47	242.16	244.79	104.04	107.03	9999.00	233.12	108.31		
	42- 52	118.03	125.61	114.66	104.04	111.28	123.94	128.12	104.47	192.34	192.34	147.12		
	53- 59	147.12	139.32	130.62	149.57	141.79	154.86	141.79						
22 47	51- 71	88.93	154.05	108.73	109.58	145.89	158.11	127.28	192.73	197.03	108.31	167.77		
	72- 82	151.20	110.86	105.32	108.73	9999.00	9999.00	119.71	36.24	118.03	94.14	97.60		
	83- 89	121.00	106.60	101.90	41.81	9999.00	229.71	140.14						
22 47	91-101	133.94	69.52	89.80	193.91	93.27	9999.00	181.32	180.52	181.71	182.90	171.78		
	102-112	180.13	175.76	169.78	161.34	162.15	145.07	145.89	147.53	149.16	147.53	151.20		
	113-120	173.37	145.07	118.45	145.99	111.70	149.98	149.98	0.00					

A20-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-B (1-21-65 AND 1-22-65)
 TEST POINT NO. 8, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS		TEMPERATURES - FAHRENHEIT													
22	49	9999.00	117.19	152.43	121.94	112.97	114.24	107.46	113.40	115.51	109.16	197.61			
		118.45	117.19	162.15	164.36	9999.00	146.71	111.28	112.55	106.18	104.47	9999.00			
22	49	9999.00	106.18	109.58	108.31	106.18	109.58	104.04	107.03	9999.00	232.37	108.31			
		77.07	77.95	208.67	104.04	241.41	244.41	128.12	104.90	189.99	192.34	146.30			
22	49	118.45	125.19	114.66	104.04	111.70	123.94	140.14	191.95	196.64	108.31	165.37			
		145.89	137.67	131.03	147.34	140.96	156.49	126.86	35.78	117.61	93.71	97.17			
22	49	88.93	153.65	108.73	109.58	156.08	157.70	118.03	178.15	178.15	179.73	168.98			
		152.02	111.28	105.75	109.16	9999.00	9999.00	178.49	145.48	147.53	145.89	149.16			
22	49	121.00	106.18	101.47	41.91	9999.00	227.82	138.15	0.00	0.00	0.00	0.00			
		133.53	69.07	89.36	194.59	92.41	9999.00	178.15	175.36	175.76	176.56	166.17			
22	49	177.35	172.17	159.32	160.13	143.43	144.25	143.02	144.25	145.89	144.66	147.94			
		170.93	143.43	118.45	144.56	111.70	149.98	149.98	0.00	0.00	0.00	0.00			
22	51	9999.00	117.19	152.02	122.26	113.40	114.24	107.46	113.82	115.51	109.16	197.61			
		118.45	117.61	162.15	164.36	149.16	146.30	110.43	110.86	105.75	104.04	9999.00			
22	51	9999.00	105.75	109.58	108.31	106.18	109.58	103.19	107.03	9999.00	231.99	107.46			
		76.63	77.95	9999.00	104.04	241.04	243.66	128.12	104.90	189.99	191.95	145.89			
22	51	118.03	124.35	114.65	104.04	111.70	124.35	139.73	191.95	196.64	108.31	162.95			
		143.43	136.01	131.45	146.30	139.32	157.70	116.77	36.24	117.61	94.14	97.17			
22	51	88.93	152.83	109.58	109.58	157.70	156.08	126.45	175.36	175.76	176.56	166.17			
		151.61	111.70	106.18	109.16	9999.00	9999.00	137.67	144.25	145.89	144.66	147.94			
22	51	120.13	106.18	101.90	42.27	9999.00	227.06	174.97	0.00	0.00	0.00	0.00			
		133.53	69.07	89.36	195.47	92.84	9999.00	143.02	113.82	115.51	109.16	198.59			
22	51	174.17	169.78	165.77	157.30	158.11	141.79	149.98	110.01	105.75	104.47	9999.00			
		168.53	142.61	118.03	143.43	112.55	149.98	107.46	107.46	109.58	109.58	108.31			
22	53	9999.00	117.19	151.20	122.26	113.40	114.66	107.46	113.82	115.51	109.16	198.59			
		118.03	117.61	162.15	164.36	148.76	145.89	109.58	110.01	105.75	104.47	9999.00			
22	53	9999.00	105.75	109.58	108.31	105.75	109.58	104.04	107.46	9999.00	231.61	108.31			
		76.19	77.07	204.81	104.04	240.66	242.54	128.12	104.90	189.99	191.95	144.25			
22	53	118.03	123.52	114.65	77.95	111.70	124.35	138.49	191.17	196.25	108.31	160.94			
		141.79	134.77	131.45	145.97	137.67	159.32	116.77	37.17	118.03	95.44	97.60			
22	53	88.93	152.02	109.58	109.58	159.73	154.05	125.61	172.97	173.37	174.17	164.56			
		151.20	111.70	106.18	109.16	9999.00	9999.00	136.01	143.43	145.07	143.84	145.89			
22	53	120.13	106.60	102.33	43.19	9999.00	226.68	172.97	0.00	0.00	0.00	0.00			
		133.94	69.52	89.80	195.47	92.84	9999.00	141.79	113.82	115.93	109.58	198.98			
22	53	168.19	167.77	163.76	156.98	156.49	141.38	149.98	109.58	105.75	104.47	9999.00			
		166.17	141.38	118.03	142.20	112.55	149.98	104.04	107.46	9999.00	230.47	108.31			
22	55	9999.00	117.19	150.39	122.26	113.40	114.66	107.46	113.82	115.93	109.58	198.98			
		118.45	117.61	162.15	164.36	148.76	145.89	109.16	109.58	105.75	104.47	9999.00			
22	55	9999.00	105.75	109.58	108.31	106.18	110.01	104.04	107.46	9999.00	230.47	108.31			
		76.19	77.07	202.87	104.04	239.91	242.54	128.12	104.47	189.99	191.56	143.43			
22	55	118.03	123.10	114.65	104.04	112.55	124.35	137.67	189.99	195.86	108.31	158.92			
		140.55	133.53	131.03	143.43	136.84	160.13	125.19	37.17	118.03	94.57	97.17			
22	55	88.93	150.90	109.58	109.58	160.94	152.43	114.66	189.99	195.86	108.31	158.92			
		150.39	111.70	106.18	109.58	9999.00	9999.00	134.77	170.18	170.18	172.17	162.95			
22	55	119.29	106.18	101.90	42.75	9999.00	225.92	170.18	141.79	144.25	141.79	145.07			
		133.53	69.07	89.36	195.25	92.41	9999.00	140.96	170.18	170.18	172.17	162.95			
22	55	169.38	165.37	161.74	154.86	154.86	140.14	149.98	141.79	144.25	141.79	145.07			
		164.55	140.55	118.03	140.96	111.70	149.98	149.98	0.00	0.00	0.00	0.00			

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-B (1-21-65 AND 1-22-65)
 TEST POINT NO. 8, SOLAR OFF, HJT LUNAR SURFACE,
 THERMA. DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS		TEMPERATURES - FAHRENHEIT												
23	0	9999.00	116.77	151.20	122.26	113.40	114.24	107.03	113.82	115.93	109.58	199.37		
	13-23	118.03	118.03	162.95	165.37	148.76	145.07	108.31	108.73	106.18	104.47	9999.00		
23	0	9999.00	106.18	109.58	108.31	105.75	110.01	104.04	107.46	9999.00	230.47	108.31		
	31-41	75.74	76.63	196.64	103.19	239.53	241.79	127.70	104.90	189.99	191.17	141.79		
	42-52	117.61	121.42	114.66	104.04	112.13	124.35	135.60						
	53-59	138.09	131.45	129.78	141.79	134.77	162.15	123.52	189.60	195.00	100.31	155.68		
23	0	88.49	151.61	109.16	109.58	163.36	151.20	113.82	37.17	118.45	95.44	97.60		
	72-82	151.61	111.70	106.60	109.16	9999.00	9999.00	113.82						
	83-89	118.45	106.60	101.90	42.73	9999.00	225.54	133.53						
23	0	133.53	69.07	89.80	196.54	91.97	9999.00	166.17	166.17	166.97	167.77	159.73		
	91-101	165.37	162.15	158.11	152.93	153.24	138.49	139.32	140.55	141.79	140.96	143.43		
	102-112	161.34	138.90	118.03	138.49	110.43	149.98	149.98	0.00					
	113-120	9999.00	116.35	145.89	122.68	113.40	114.24	107.03	113.82	116.77	109.58	95.87		
23	10	118.03	118.87	164.16	165.17	147.53	143.02	105.75	106.18	105.32	104.04	9999.00		
	13-23	9999.00	105.32	109.58	108.31	105.32	109.58							
23	10	75.30	76.19	183.69	102.76	239.91	242.54	103.19	107.03	9999.00	230.09	107.46		
	31-41	116.77	117.19	114.66	103.19	112.55	123.52	126.45	104.47	189.20	189.99	137.67		
	42-52	133.53	126.86	126.86	136.94	130.82	133.53	131.86						
23	10	87.62	143.84	109.16	109.58	132.28	143.02	121.00	187.63	193.52	108.31	148.35		
	72-82	146.30	111.70	106.60	109.16	9999.00	9999.00	110.01	36.24	117.19	93.71	96.74		
	83-89	115.51	105.32	100.18	41.91	9999.00	224.77	131.03						
23	10	132.70	69.07	88.93	98.46	89.80	9999.00	158.11	158.51	158.11	159.73	152.83		
	91-101	158.11	154.05	152.43	147.94	147.53	134.77	135.18	136.01	137.67	136.84	138.49		
	102-112	154.05	134.36	117.19	134.77	107.46	149.98	149.98	0.00					
	113-120	9999.00	115.09	143.02	122.68	113.82	113.82	107.03	114.24	115.93	109.58	93.71		
23	20	117.61	118.87	164.56	166.97	146.71	141.79	104.04	104.47	104.04	102.33	9999.00		
	13-23	9999.00	104.04	109.58	107.46	105.32	109.58							
23	20	75.74	76.19	174.97	102.33	241.04	243.29	101.90	106.60	9999.00	230.47	107.03		
	31-41	115.51	114.24	114.24	102.76	112.13	122.68	125.61	104.04	188.81	189.20	133.94		
	42-52	130.62	125.19	125.19	134.36	128.12	131.03	128.78						
23	20	87.19	140.96	108.73	109.73	130.20	139.32	118.87	186.06	192.73	107.03	144.25		
	53-59	144.25	111.28	106.60	109.16	9999.00	9999.00	108.31	35.31	116.35	93.27	96.30		
	72-82	113.82	105.32	99.75	41.91	9999.00	225.54	129.37						
	83-89	132.28	67.73	88.05	97.17	89.36	9999.00	153.65	154.05	154.05	154.05	149.16		
23	20	153.24	150.80	148.76	145.48	145.07	132.70	133.11	133.53	136.01	134.36	136.43		
	91-101	149.57	133.11	116.77	132.28	106.18	149.98	149.98	0.00					
	102-112	9999.00	113.82	140.96	123.10	113.82	113.40	106.60	114.24	116.77	109.58	94.57		
	113-120	117.61	118.87	165.37	167.37	145.89	140.14	102.33	104.04	105.32	104.04	9999.00		
23	30	9999.00	105.75	109.58	107.46	105.32	109.58							
	31-41	76.19	76.63	168.98	101.90	242.16	245.16	104.04	106.60	9999.00	231.61	107.03		
	42-52	114.65	111.70	113.82	101.90	112.55	121.84	124.77	104.04	188.02	188.42	131.86		
23	30	128.95	123.94	123.94	132.28	126.45	129.37	128.53						
	53-59	85.87	139.90	108.73	108.73	128.95	136.43	117.19	186.06	192.34	107.03	141.79		
	72-82	143.43	111.28	107.03	108.73	9999.00	9999.00	109.16	35.78	118.03	94.57	97.60		
	83-89	114.24	106.18	100.19	41.91	9999.00	226.68	130.62						
23	30	133.53	69.52	89.80	98.46	90.23	9999.00	151.20	150.80	151.20	151.61	146.71		
	91-101	149.57	147.94	146.71	144.25	143.43	131.86	131.86	133.11	135.18	133.53	135.18		
	102-112	148.35	132.28	115.09	130.62	106.18	149.98	149.98	0.00					
	113-120	9999.00	113.82	140.96	123.10	113.82	113.40	106.60	114.24	116.77	109.58	94.57		
23	30	117.61	118.87	165.37	167.37	145.89	140.14	102.33	104.04	105.32	104.04	9999.00		
	13-23	9999.00	105.75	109.58	107.46	105.32	109.58							
23	30	76.19	76.63	168.98	101.90	242.16	245.16	104.04	106.60	9999.00	231.61	107.03		
	31-41	114.65	111.70	113.82	101.90	112.55	121.84	124.77	104.04	188.02	188.42	131.86		
23	30	128.95	123.94	123.94	132.28	126.45	129.37	128.53						
	53-59	85.87	139.90	108.73	108.73	128.95	136.43	117.19	186.06	192.34	107.03	141.79		
	72-82	143.43	111.28	107.03	108.73	9999.00	9999.00	109.16	35.78	118.03	94.57	97.60		
	83-89	114.24	106.18	100.19	41.91	9999.00	226.68	130.62						
23	30	133.53	69.52	89.80	98.46	90.23	9999.00	151.20	150.80	151.20	151.61	146.71		
	91-101	149.57	147.94	146.71	144.25	143.43	131.86	131.86	133.11	135.18	133.53	135.18		
	102-112	148.35	132.28	115.09	130.62	106.18	149.98	149.98	0.00					
	113-120	9999.00	113.82	140.96	123.10	113.82	113.40	106.60	114.24	116.77	109.58	94.57		

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-B (1-21-65 AND 1-22-65)
 TEST POINT NO. 8, SOLAR OFF, H.T. LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS		TEMPERATURES - FAHRENHEIT																							
23	40	9999.00	112.97	139.32	123.52	113.82	112.97	106.18	114.66	115.93	109.58	92.84	9999.00	117.19	118.87	165.77	167.77	145.07	138.90	101.90	102.33	104.04	109.58	92.84	
23	40	9999.00	104.04	109.16	107.46	104.90	109.16	101.90	106.18	104.04	109.58	106.60	9999.00	76.19	76.63	163.76	101.90	242.91	245.91	123.52	104.04	187.63	187.63	129.78	
23	40	9999.00	113.40	109.16	112.97	100.61	112.55	121.00	106.18	104.04	109.58	106.60	9999.00	127.70	122.68	122.68	131.03	125.61	128.53	127.28	185.66	191.98	106.60	139.73	
23	40	9999.00	84.99	137.25	108.73	108.73	9999.00	9999.00	106.18	104.04	109.58	106.60	9999.00	143.02	111.28	107.03	108.73	9999.00	9999.00	129.37	34.84	116.35	93.27	96.30	
23	40	9999.00	112.55	105.32	98.89	40.98	9999.00	227.06	106.18	104.04	109.58	106.60	9999.00	133.11	68.17	88.49	97.17	88.93	9999.00	149.76	148.35	148.35	149.16	144.66	
23	40	9999.00	147.94	145.89	144.66	142.51	141.79	130.20	131.86	133.53	131.86	133.53	9999.00	147.94	145.89	144.66	142.51	141.79	130.20	130.62	131.86	133.53	131.86	133.53	
24	0	9999.00	145.89	130.62	129.37	104.90	149.98	149.98	0.00	0.00	0.00	0.00	9999.00	109.58	109.58	136.84	123.52	113.82	111.70	105.75	114.24	115.09	108.73	96.30	
24	0	9999.00	116.35	118.45	166.17	168.58	143.84	136.01	100.18	100.61	106.18	9999.00	9999.00	116.35	118.45	166.17	168.58	143.84	136.01	100.18	100.61	106.18	9999.00	96.30	
24	0	9999.00	76.63	77.07	152.02	101.04	244.79	247.41	105.75	105.75	186.84	187.24	9999.00	76.63	77.07	152.02	101.04	244.79	247.41	105.75	105.75	186.84	187.24	127.28	
24	0	9999.00	111.28	105.75	110.43	97.50	112.13	118.87	121.84	103.61	187.24	127.28	9999.00	125.61	121.00	121.42	128.53	123.52	126.45	125.61	114.24	185.66	191.56	135.18	
24	0	9999.00	82.80	135.18	108.31	108.31	122.68	130.62	114.24	185.66	191.56	135.18	9999.00	82.80	135.18	108.31	108.31	122.68	130.62	114.24	185.66	191.56	135.18	99.75	
24	0	9999.00	115.09	108.31	102.33	46.42	9999.00	228.58	130.20	145.89	145.89	144.25	9999.00	115.09	108.31	102.33	46.42	9999.00	228.58	130.20	145.89	145.89	144.25	134.36	
24	0	9999.00	135.60	71.74	92.84	93.27	9999.00	93.27	145.89	133.53	135.18	134.36	9999.00	135.60	71.74	92.84	93.27	9999.00	93.27	145.89	133.53	135.18	134.36	134.36	
24	0	9999.00	145.89	144.25	143.84	143.43	142.20	132.70	132.28	133.53	135.18	134.36	9999.00	145.89	144.25	143.84	143.43	142.20	132.70	132.28	133.53	135.18	134.36	134.36	
24	0	9999.00	145.07	132.70	112.55	127.28	108.31	149.98	0.00	0.00	0.00	0.00	9999.00	145.07	132.70	112.55	127.28	108.31	149.98	0.00	0.00	0.00	0.00	0.00	0.00
0	20	9999.00	107.03	134.77	123.10	113.82	110.43	105.32	114.24	114.24	107.88	96.30	9999.00	107.03	134.77	123.10	113.82	110.43	105.32	114.24	114.24	107.88	96.30	96.30	
0	20	9999.00	115.51	118.03	166.17	168.58	142.61	133.94	98.89	98.89	107.03	9999.00	9999.00	115.51	118.03	166.17	168.58	142.61	133.94	98.89	98.89	107.03	9999.00	96.30	
0	20	9999.00	76.63	76.63	153.24	100.18	246.28	249.27	105.75	105.32	235.39	105.32	9999.00	76.63	76.63	153.24	100.18	246.28	249.27	105.75	105.32	235.39	105.32	125.19	
0	20	9999.00	109.16	102.76	108.31	95.44	112.55	116.77	120.13	103.19	185.66	125.19	9999.00	109.16	102.76	108.31	95.44	112.55	116.77	120.13	103.19	185.66	125.19	125.19	
0	20	9999.00	125.19	120.58	120.13	127.70	123.10	126.03	124.77	185.66	191.56	135.60	9999.00	125.19	120.58	120.13	127.70	123.10	126.03	124.77	185.66	191.56	135.60	135.60	
0	20	9999.00	81.04	133.53	108.31	108.31	126.03	129.37	113.40	185.66	191.56	135.60	9999.00	81.04	133.53	108.31	108.31	126.03	129.37	113.40	185.66	191.56	135.60	135.60	
0	20	9999.00	140.96	110.43	106.18	107.98	9999.00	9999.00	110.01	36.24	120.13	99.75	9999.00	140.96	110.43	106.18	107.98	9999.00	9999.00	110.01	36.24	120.13	99.75	99.75	
0	20	9999.00	113.82	108.73	101.04	42.27	9999.00	230.47	144.25	144.25	144.25	142.20	9999.00	113.82	108.73	101.04	42.27	9999.00	230.47	144.25	144.25	144.25	142.20	142.20	
0	20	9999.00	136.01	70.85	92.41	99.75	92.41	9999.00	144.66	131.45	131.86	132.28	9999.00	136.01	70.85	92.41	99.75	92.41	9999.00	144.66	131.45	131.86	132.28	132.28	
0	20	9999.00	144.25	142.61	141.79	141.79	140.96	130.20	130.62	131.45	131.86	132.28	9999.00	144.25	142.61	141.79	141.79	140.96	130.20	130.62	131.45	131.86	132.28	132.28	
0	20	9999.00	143.43	130.62	110.01	126.45	106.18	149.98	0.00	0.00	0.00	0.00	9999.00	143.43	130.62	110.01	126.45	106.18	149.98	0.00	0.00	0.00	0.00	0.00	0.00
0	40	9999.00	104.90	133.94	123.10	113.82	109.58	104.90	114.24	113.82	107.46	94.57	9999.00	104.90	133.94	123.10	113.82	109.58	104.90	114.24	113.82	107.46	94.57	94.57	
0	40	9999.00	114.65	117.61	166.17	168.58	142.20	132.28	97.17	97.60	105.32	9999.00	9999.00	114.65	117.61	166.17	168.58	142.20	132.28	97.17	97.60	105.32	9999.00	9999.00	
0	40	9999.00	76.19	76.63	154.46	99.75	247.03	249.65	104.47	105.32	236.14	104.90	9999.00	76.19	76.63	154.46	99.75	247.03	249.65	104.47	105.32	236.14	104.90	104.90	
0	40	9999.00	107.45	100.61	105.75	92.84	112.55	115.51	118.87	102.76	185.66	124.35	9999.00	107.45	100.61	105.75	92.84	112.55	115.51	118.87	102.76	185.66	124.35	124.35	
0	40	9999.00	123.94	120.13	119.29	126.96	122.26	125.19	123.94	185.27	191.56	134.36	9999.00	123.94	120.13	119.29	126.96	122.26	125.19	123.94	185.27	191.56	134.36	134.36	
0	40	9999.00	79.28	133.53	107.88	107.46	125.61	127.28	112.55	34.84	118.87	98.46	9999.00	79.28	133.53	107.88	107.46	125.61	127.28	112.55	34.84	118.87	98.46	98.46	
0	40	9999.00	140.14	110.01	105.75	107.46	9999.00	9999.00	108.73	185.27	191.56	134.36	9999.00	140.14	110.01	105.75	107.46	9999.00	9999.00	108.73	185.27	191.56	134.36	134.36	
0	40	9999.00	112.55	108.31	99.75	41.91	9999.00	231.23	132.28	142.61	142.61	140.96	9999.00	112.55	108.31	99.75	41.91	9999.00	231.23	132.28	142.61	142.61	140.96	140.96	
0	40	9999.00	135.60	69.96	91.10	98.46	91.10	9999.00	142.61	130.20	131.86	130.62	9999.00	135.60	69.96	91.10	98.46	91.10	9999.00	142.61	130.20	131.86	130.62	130.62	
0	40	9999.00	142.61	141.38	140.55	140.55	139.32	128.95	129.37	130.20	131.86	130.62	9999.00	142.61	141.38	140.55	140.55	139.32	128.95	129.37	130.20	131.86	130.62	130.62	
0	40	9999.00	141.79	129.37	108.73	125.51	104.90	149.98	0.00	0.00	0.00	0.00	9999.00	141.79	129.37	108.73	125.51	104.90	149.98	0.00	0.00	0.00	0.00	0.00	0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-8 (1-21-65 AND 1-22-65)
 TEST POINT NO. 8, SOLAR OFF, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TEMPERATURES - FAHRENHEIT

TIME CHANNELS	9999.00	102.76	133.11	122.68	113.82	108.31	104.04	114.24	110.01	106.60	96.30	104.04	114.24	110.01	106.60	96.30
1 0	113.82	117.19	166.17	168.98	140.55	131.03	96.30	96.74	108.73	107.46	9999.00	104.04	114.24	110.01	106.60	96.30
1 0	9999.00	108.73	108.31	106.18	103.61	108.31	106.60	105.32	9999.00	237.27	104.04	106.60	105.32	9999.00	237.27	104.04
1 0	106.18	99.75	104.04	90.67	112.13	114.24	117.61	102.33	185.27	186.45	123.52	117.61	102.33	185.27	186.45	123.52
1 0	123.52	119.29	118.45	125.61	124.77	126.03	123.52	185.66	191.95	105.32	133.53	123.52	185.66	191.95	105.32	133.53
1 0	139.32	109.58	105.32	107.03	124.77	126.03	111.28	36.24	121.00	97.60	100.18	111.28	36.24	121.00	97.60	100.18
1 0	113.82	109.58	101.47	42.73	9999.00	232.37	133.53	141.38	141.38	141.38	140.55	141.79	141.38	141.38	141.38	140.55
1 0	137.25	71.50	92.84	100.18	92.84	9999.00	141.79	130.62	132.28	130.62	131.03	141.79	130.62	132.28	130.62	131.03
1 0	141.38	140.55	140.14	140.96	139.73	129.37	149.98	0.00	0.00	0.00	0.00	149.98	0.00	0.00	0.00	0.00
1 0	141.38	130.20	107.03	125.19	106.18	149.98	149.98	114.24	111.70	105.75	98.44	104.04	114.24	111.70	105.75	98.44
1 20	9999.00	101.04	132.28	122.26	113.40	107.46	104.04	114.24	111.70	105.75	98.44	104.04	114.24	111.70	105.75	98.44
1 20	112.97	116.77	166.17	169.38	140.55	129.78	95.01	95.44	107.46	105.75	9999.00	95.01	95.44	107.46	105.75	9999.00
1 20	9999.00	107.46	107.46	105.75	103.19	107.88	105.32	104.90	9999.00	237.65	104.04	105.32	104.90	9999.00	237.65	104.04
1 20	76.19	76.19	150.39	98.46	248.90	251.51	116.35	101.47	185.27	186.06	122.26	116.35	101.47	185.27	186.06	122.26
1 20	104.47	97.60	101.47	88.93	111.70	112.55	122.68	185.66	191.95	104.90	131.86	122.68	185.66	191.95	104.90	131.86
1 20	122.26	118.45	117.61	125.19	120.58	123.52	110.01	34.84	119.29	95.87	98.89	110.01	34.84	119.29	95.87	98.89
1 20	177.07	131.86	107.03	106.60	123.94	125.19	108.31	140.14	139.73	139.73	129.37	108.31	140.14	139.73	139.73	129.37
1 20	138.49	109.16	104.90	106.18	9999.00	9999.00	132.28	129.37	131.03	129.37	129.37	132.28	129.37	131.03	129.37	129.37
1 20	112.13	108.31	99.75	42.27	9999.00	9999.00	140.55	0.00	0.00	0.00	0.00	140.55	0.00	0.00	0.00	0.00
1 20	136.43	69.96	91.54	98.89	91.10	9999.00	128.53	129.37	131.03	129.37	129.37	128.53	129.37	131.03	129.37	129.37
1 20	140.55	139.32	138.90	139.73	138.49	128.53	149.98	0.00	0.00	0.00	0.00	149.98	0.00	0.00	0.00	0.00
1 20	140.14	128.95	105.32	123.94	104.90	149.98	149.98	113.82	110.86	104.90	95.44	102.76	113.82	110.86	104.90	95.44
1 40	9999.00	99.75	131.45	121.94	113.40	106.18	94.14	94.57	108.31	106.18	9999.00	94.14	94.57	108.31	106.18	9999.00
1 40	112.55	116.77	166.17	169.38	139.73	129.37	107.46	104.47	9999.00	238.03	103.19	105.32	104.47	9999.00	238.03	103.19
1 40	9999.00	108.31	107.03	105.32	102.76	107.46	105.09	101.47	184.87	186.45	121.84	105.09	101.47	184.87	186.45	121.84
1 40	75.74	76.19	154.05	98.03	249.27	252.26	111.70	185.66	192.34	104.47	131.45	111.70	185.66	192.34	104.47	131.45
1 40	102.76	96.30	99.75	87.52	111.70	111.70	121.84	34.84	119.71	96.30	99.75	121.84	34.84	119.71	96.30	99.75
1 40	121.84	118.03	117.19	124.35	120.13	123.10	109.58	185.66	192.34	104.47	131.45	109.58	185.66	192.34	104.47	131.45
1 40	76.19	131.45	107.03	106.18	123.10	123.94	108.73	140.14	139.73	138.90	138.90	108.73	140.14	139.73	138.90	138.90
1 40	138.49	109.16	104.47	105.75	9999.00	9999.00	132.70	129.37	130.62	129.37	129.37	132.70	129.37	130.62	129.37	129.37
1 40	112.55	108.73	100.18	41.81	9999.00	233.12	139.73	139.32	138.90	138.90	138.90	139.73	139.32	138.90	138.90	138.90
1 40	136.84	70.41	91.54	98.89	91.54	9999.00	128.53	129.37	130.62	129.37	129.37	128.53	129.37	130.62	129.37	129.37
1 40	139.73	138.49	137.67	139.73	137.67	128.53	149.98	0.00	0.00	0.00	0.00	149.98	0.00	0.00	0.00	0.00
1 40	139.32	128.53	104.04	123.52	104.47	149.98	149.98	113.82	110.43	104.47	96.74	102.76	113.82	110.43	104.47	96.74
2 0	9999.00	98.03	131.45	121.94	113.40	105.32	93.71	93.71	109.16	108.31	9999.00	93.71	93.71	109.16	108.31	9999.00
2 0	112.55	115.93	166.17	169.78	139.32	128.53	107.46	104.47	9999.00	239.16	102.33	107.46	104.47	9999.00	239.16	102.33
2 0	9999.00	109.16	107.03	105.32	102.76	107.46	107.03	101.04	185.27	186.06	121.42	107.03	101.04	185.27	186.06	121.42
2 0	76.19	76.19	156.08	97.60	250.02	252.63	114.24	186.06	192.73	104.47	131.45	114.24	186.06	192.73	104.47	131.45
2 0	101.90	95.44	98.03	86.74	111.70	110.01	121.42	35.78	121.42	98.03	100.61	121.42	35.78	121.42	98.03	100.61
2 0	121.42	116.77	116.77	123.94	119.71	123.10	108.73	186.06	192.73	104.47	131.45	108.73	186.06	192.73	104.47	131.45
2 0	75.30	131.03	107.03	106.18	123.10	123.52	110.43	140.14	139.73	138.90	138.90	110.43	140.14	139.73	138.90	138.90
2 0	138.49	109.16	104.47	105.75	9999.00	9999.00	134.36	129.37	131.45	129.37	129.37	134.36	129.37	131.45	129.37	129.37
2 0	113.40	110.01	101.47	42.27	9999.00	234.26	139.73	139.32	138.90	138.90	138.90	139.73	139.32	138.90	138.90	138.90
2 0	138.05	71.74	93.27	100.61	92.84	9999.00	149.98	129.37	131.45	129.37	129.37	149.98	129.37	131.45	129.37	129.37
2 0	139.73	138.90	138.90	140.55	138.90	129.37	149.98	0.00	0.00	0.00	0.00	149.98	0.00	0.00	0.00	0.00
2 0	139.73	129.78	102.76	123.10	105.75	149.98	149.98	113.82	110.43	104.47	96.74	102.76	113.82	110.43	104.47	96.74

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. NO. 11-8 (1-21-65 AND 1-22-65)
 TEST POINT NO. 8, SOLAR OFF, HJT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

		TEMPERATURES - FAHRENHEIT										
TIME	C CHANNELS											
0 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	105.00	106.00	109.00	110.00	116.00	122.00
	B12-B22	137.00	125.00	135.00	115.00	117.00	106.00	110.00	105.00	125.00	125.00	138.00
	B23-B24	108.00	-0.00									
0 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	105.00	106.00	108.00	110.00	116.00	121.00
	B12-B22	136.00	124.00	134.00	113.00	117.00	106.00	110.00	105.00	124.00	124.00	137.00
	B23-B24	107.00	-0.00									
0 30	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	104.00	106.00	107.00	109.00	116.00	121.00
	B12-B22	136.00	123.00	133.00	113.00	116.00	105.00	110.00	105.00	124.00	123.00	136.00
	B23-B24	107.00	-0.00									
0 40	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	104.00	105.00	107.00	109.00	115.00	121.00
	B12-B22	135.00	123.00	132.00	113.00	116.00	105.00	109.00	105.00	123.00	123.00	136.00
	B23-B24	105.00	-0.00									
0 50	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	104.00	105.00	107.00	108.00	115.00	121.00
	B12-B22	134.00	122.00	131.00	113.00	116.00	105.00	109.00	104.00	123.00	123.00	139.00
	B23-B24	105.00	-0.00									
1 0	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	104.00	105.00	107.00	108.00	115.00	120.00
	B12-B22	133.00	122.00	131.00	112.00	115.00	104.00	108.00	104.00	123.00	123.00	134.00
	B23-B24	104.00	-0.00									
1 10	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	103.00	105.00	105.00	107.00	114.00	120.00
	B12-B22	132.00	121.00	130.00	112.00	115.00	104.00	108.00	103.00	122.00	122.00	133.00
	B23-B24	103.00	-0.00									
1 20	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	103.00	105.00	105.00	106.00	114.00	120.00
	B12-B22	131.00	121.00	130.00	111.00	115.00	103.00	107.00	103.00	122.00	121.00	133.00
	B23-B24	102.00	-0.00									
1 30	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	103.00	105.00	104.00	106.00	113.00	119.00
	B12-B22	131.00	121.00	129.00	111.00	114.00	103.00	108.00	103.00	122.00	121.00	132.00
	B23-B24	102.00	-0.00									
1 40	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	102.00	104.00	104.00	105.00	113.00	118.00
	B12-B22	131.00	121.00	129.00	111.00	114.00	102.00	107.00	102.00	121.00	121.00	132.00
	B23-B24	101.00	-0.00									
1 50	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	102.00	104.00	104.00	105.00	113.00	118.00
	B12-B22	130.00	120.00	128.00	110.00	113.00	102.00	107.00	102.00	121.00	121.00	132.00
	B23-B24	100.00	-0.00									
2 0	B01-B11	9999.00	9999.00	79.00	9999.00	9999.00	102.00	103.00	104.00	104.00	113.00	118.00
	B12-B22	130.00	120.00	128.00	110.00	113.00	102.00	106.00	102.00	120.00	120.00	131.00
	B23-B24	100.00	-0.00									
22 35	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	106.00	107.00	112.00	112.00	121.00	127.00
	B12-B22	148.00	131.00	144.00	115.00	119.00	105.00	108.00	105.00	127.00	127.00	147.00
	B23-B24	139.00	-0.00									

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-B (1-21-65)
 TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
19 39	2- 12	9999.00	98.46	108.31	110.43	104.47	97.60	98.89	104.90	101.90	98.89	98.89	
	13- 23	104.90	105.75	142.20	145.89	127.70	125.61	86.74	88.49	219.01	224.01	9999.00	
	24- 29	9999.00	233.12	9999.00	110.43	105.32	114.66						
19 39	31- 41	76.19	76.63	91.54	91.10	204.81	206.74	227.06	111.70	9999.00	205.19	98.03	
	42- 52	94.14	81.48	95.87	101.04	102.76	100.18	103.00	100.61	149.57	152.43	107.03	
	53- 59	108.31	106.60	105.32	112.13	110.86	110.86	9999.00	155.27	156.89	104.47	126.45	
19 39	51- 71	95.87	108.73	116.77	108.73	111.70	109.16	97.60	152.83	145.89	194.69	137.67	
	72- 82	183.29	120.13	9999.00	111.70	9999.00	9999.00	110.01					
	83- 89	116.77	237.27	99.75	41.81	9999.00	210.22	170.98	202.48	199.37	197.81	212.14	
19 39	91-101	78.40	164.56	182.11	97.17	88.05	9999.00	204.03	207.51	202.48	206.74	209.45	
	102-112	205.19	204.81	214.07	225.16	223.25	198.20	203.64	207.51	202.48	206.74	209.45	
	113-120	211.37	205.19	95.87	111.28	111.28	149.98	149.98	0.00				
19 47	2- 12	9999.00	97.17	111.28	110.43	104.47	98.03	99.75	104.90	101.47	98.46	104.90	
	13- 23	104.04	105.32	141.79	145.89	128.95	126.03	108.73	109.58	116.77	113.40	9999.00	
	24- 29	9999.00	121.42	112.55	111.70	105.75	115.93						
19 47	31- 41	77.95	77.95	92.41	91.10	229.33	231.99	118.87	112.55	9999.00	217.14	98.03	
	42- 52	94.14	82.36	95.44	100.51	102.76	100.18	102.76	100.61	151.61	153.65	107.46	
	53- 59	110.01	108.73	105.32	113.40	112.13	112.55	107.88	162.15	162.15	105.32	130.20	
19 47	51- 71	98.45	114.66	117.61	109.16	114.66	110.86	98.89	163.76	163.76	101.47	102.76	
	72- 82	189.20	121.42	105.75	111.70	9999.00	9999.00	183.69	209.45	206.35	204.42	220.58	
	83- 89	254.12	125.19	200.15	114.66	9999.00	215.98	158.92	212.14	206.74	210.22	213.68	
19 47	91-101	139.73	78.84	98.03	228.20	220.20	9999.00	210.60	212.14	206.74	210.22	213.68	
	102-112	222.14	210.99	219.05	229.33	227.06	203.64	208.29	212.14	206.74	210.22	213.68	
	113-120	217.14	209.06	95.87	112.13	183.69	149.98	149.98	0.00				
19 49	2- 12	9999.00	97.17	112.55	110.43	104.47	97.60	99.32	104.47	101.47	98.46	189.60	
	13- 23	104.47	105.75	141.79	145.89	128.95	126.03	110.01	112.97	117.61	112.97	9999.00	
	24- 29	9999.00	120.13	113.40	111.70	105.75	115.93						
19 49	31- 41	77.95	78.40	92.41	91.54	233.88	236.14	115.93	112.55	9999.00	222.11	98.46	
	42- 52	94.14	82.80	95.44	100.18	102.76	99.75	102.76	101.04	152.43	154.05	107.88	
	53- 59	112.13	110.43	105.75	114.24	113.82	113.40	108.31	163.36	164.16	9999.00	133.94	
19 49	51- 71	98.45	116.77	117.19	108.73	117.61	112.55	99.75	51.91	9999.00	99.75	101.04	
	72- 82	187.24	121.00	9999.00	110.43	9999.00	9999.00	182.11					
	83- 89	255.97	121.00	9999.00	111.70	9999.00	230.20	156.89	210.22	207.51	205.97	218.28	
19 49	91-101	138.08	75.30	94.14	228.58	213.30	9999.00	211.37	212.14	206.35	210.22	213.68	
	102-112	213.30	212.14	219.43	228.58	226.68	203.64	208.67	212.14	206.35	210.22	213.68	
	113-120	217.90	209.45	95.87	112.97	185.66	149.98	149.98	0.00				
19 51	2- 12	9999.00	97.17	113.40	110.43	104.47	97.60	99.32	104.47	101.47	98.46	186.84	
	13- 23	9999.00	106.18	141.79	145.48	128.95	126.03	111.28	114.24	115.93	110.86	9999.00	
	24- 29	9999.00	118.03	113.40	111.70	105.75	115.93						
19 51	31- 41	77.95	77.95	92.84	91.97	237.65	239.53	113.82	112.55	9999.00	227.06	98.03	
	42- 52	94.14	83.24	95.44	99.75	103.19	99.75	103.19	101.04	152.83	154.86	108.31	
	53- 59	113.82	112.55	105.75	115.51	114.66	114.66	108.73	163.76	166.17	104.90	138.08	
19 51	51- 71	98.45	118.03	117.19	108.31	120.58	114.24	100.18	48.71	169.78	99.75	101.47	
	72- 82	184.87	121.00	104.90	109.58	9999.00	9999.00	180.92	210.99	208.29	206.74	219.05	
	83- 89	253.00	119.71	9999.00	111.70	9999.00	224.39	157.30	212.53	206.74	210.99	214.07	
19 51	91-101	138.90	76.19	92.41	231.61	212.53	9999.00	212.53	212.53	206.74	210.99	214.07	
	102-112	214.07	212.14	220.20	229.33	227.06	204.03	208.67	212.53	206.74	210.99	214.07	
	113-120	218.29	209.45	9999.00	116.77	186.06	149.98	149.98	0.00				

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-B (1-21-65)
 TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS		TEMPERATURES - FARENHEIT											
19 53	2-12	9999.00	97.17	114.66	110.86	104.47	97.60	98.46	104.47	101.47	104.47	98.46	181.32
	13-23	104.90	106.18	141.79	145.48	128.95	126.03	111.70	114.24	115.09	114.24	111.28	9999.00
	24-29	9999.00	118.03	113.62	110.86	105.75	116.35						
19 53	31-41	76.63	77.07	118.45	92.41	240.28	242.16	113.40	112.97	9999.00	230.47	98.03	
	42-52	94.14	84.56	95.01	99.32	100.18	103.19	101.04	101.04	153.65	155.68	109.58	
	53-59	121.84	118.87	106.60	123.52	121.84	121.00	112.55	165.77	168.98	104.90	157.70	
19 53	61-71	98.46	119.71	118.03	107.46	134.77	118.03	101.04	47.79	178.15	9999.00	103.61	
	72-82	183.29	121.00	104.90	109.16	9999.00	9999.00	179.34	212.53	209.45	208.29	220.58	
	83-89	246.28	119.71	198.98	111.28	9999.00	227.82	157.30	214.07	208.67	212.91	207.90	
19 53	91-101	140.55	77.95	94.14	233.50	214.83	9999.00	213.68	0.00				
	102-112	215.22	214.07	220.58	230.95	228.96	205.19	210.60					
	113-120	219.81	211.37	9999.00	119.29	187.63	149.98	149.98					
19 55	2-12	9999.00	97.17	115.93	110.43	104.47	97.60	98.89	104.90	101.47	98.46	180.13	
	13-23	9999.00	106.18	141.38	145.48	128.53	126.03	112.55	114.24	115.51	113.82	9999.00	
	24-29	9999.00	119.29	113.82	111.70	106.18	115.93						
19 55	31-41	76.63	76.63	117.19	9999.00	243.66	245.16	116.35	112.97	9999.00	234.26	9999.00	
	42-52	94.57	85.87	95.01	98.99	103.19	100.18	103.61	101.04	154.46	156.49	110.91	
	53-59	118.87	116.35	106.60	120.58	119.29	120.58	112.97	166.17	170.18	104.47	158.80	
19 55	61-71	98.03	121.42	116.77	106.50	131.03	118.87	101.90	46.88	9999.00	101.47	105.32	
	72-82	176.15	119.71	104.47	107.88	9999.00	9999.00	178.15					
	83-89	249.65	119.71	199.37	111.28	9999.00	231.61	158.11					
19 55	91-101	140.14	79.28	95.87	234.53	214.83	9999.00	214.45	213.30	210.22	209.06	228.58	
	102-112	216.37	214.83	221.72	231.61	229.71	206.35	211.37	214.83	209.06	213.68	215.60	
	113-120	220.58	212.53	96.30	119.29	187.63	149.98	149.98	0.00				
19 57	2-12	9999.00	97.17	117.19	110.43	104.47	97.60	98.46	104.90	101.47	98.46	177.35	
	13-23	105.75	106.18	141.79	145.48	128.53	126.03	112.97	114.24	114.66	113.40	9999.00	
	24-29	9999.00	119.45	113.82	111.70	106.18	115.93						
19 57	31-41	76.19	76.63	195.08	92.41	245.54	247.03	117.19	112.55	9999.00	237.27	97.60	
	42-52	95.01	86.74	95.01	98.46	103.19	100.18	104.04	101.04	155.27	157.30	110.86	
	53-59	121.00	118.03	107.03	122.26	121.00	122.26	113.82	167.77	172.17	104.47	154.86	
19 57	61-71	98.03	123.52	116.35	106.18	133.53	120.58	102.76	46.42	186.06	101.90	106.60	
	72-82	172.17	118.87	104.04	107.03	9999.00	9999.00	177.35					
	83-89	248.53	119.71	9999.00	111.28	9999.00	234.63	158.51					
19 57	91-101	140.55	80.16	97.60	235.77	216.75	9999.00	215.60	214.07	211.76	210.22	222.49	
	102-112	217.52	216.37	222.87	232.37	230.47	207.13	212.53	216.37	210.22	214.45	217.14	
	113-120	220.95	213.69	96.30	121.42	185.66	149.98	149.98	0.00				
19 59	2-12	9999.00	97.17	118.45	110.86	104.47	98.03	98.46	104.90	101.47	98.46	175.76	
	13-23	105.75	106.60	141.79	145.48	128.53	126.45	113.82	113.82	115.09	114.24	9999.00	
	24-29	9999.00	118.87	113.82	111.70	106.18	115.51						
19 59	31-41	76.19	76.19	232.37	92.94	247.41	248.90	119.29	112.55	9999.00	239.91	98.46	
	42-52	95.44	88.05	95.01	98.03	103.19	100.18	104.47	101.04	156.08	158.11	111.70	
	53-59	125.19	121.84	108.31	126.96	124.77	126.83	115.93					
19 59	61-71	97.60	125.61	115.93	105.75	139.73	123.10	103.61	170.18	174.97	104.47	165.37	
	72-82	168.98	119.87	104.04	106.18	9999.00	9999.00	178.95	47.33	189.99	104.04	109.58	
	83-89	241.79	9999.00	200.15	112.13	9999.00	237.27	159.32					
19 59	91-101	142.61	82.90	100.18	236.14	219.81	9999.00	217.14	215.60	212.91	211.37	223.63	
	102-112	218.28	217.14	224.01	233.50	231.99	208.29	214.07	217.52	211.37	216.37	218.28	
	113-120	222.49	215.22	96.74	125.61	183.69	149.98	149.98	0.00				

APO-LJ-EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES

NAS 9-3414, EXP. 11-8 (1-21-65)

TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS		TEMPERATURES - FAHRENHEIT										
20	1	9999.00	97.17	119.71	110.86	104.90	98.03	98.46	104.90	101.47	98.46	175.36
	13- 23	106.18	106.60	141.79	145.48	126.53	126.45	114.24	114.24	117.19	116.77	9999.00
20	1	9999.00	120.58	113.82	111.28	106.18	115.51	121.42	112.55	9999.00	241.79	9999.00
	31- 41	75.74	76.19	242.16	92.84	9999.00	250.76	104.47	101.04	157.30	159.32	113.40
	42- 52	95.44	89.36	95.01	97.60	103.19	100.18	104.47	172.17	177.35	104.90	170.18
20	1	128.95	123.52	108.73	188.95	126.45	129.37	104.47	47.79	9999.00	105.32	111.70
	61- 71	97.60	127.28	115.93	105.32	143.84	126.03	104.47	216.75	214.07	212.53	224.39
	72- 82	164.96	118.45	103.61	105.75	9999.00	9999.00	176.56	218.67	211.76	217.14	219.05
	83- 89	235.77	121.84	200.15	112.55	9999.00	238.78	159.73	0.00			
20	1	91-101	143.43	84.12	287.27	223.25	9999.00	217.90	216.75	214.07	212.53	224.39
	102-112	219.81	218.28	224.77	234.63	232.37	209.06	214.83	218.67	211.76	217.14	219.05
	113-120	223.63	215.98	96.74	128.95	181.32	149.98	149.98	0.00			
20	3	9999.00	97.60	121.00	110.86	104.90	98.03	98.46	104.90	101.47	98.46	173.37
	13- 23	9999.00	106.60	141.79	145.89	128.95	126.45	114.66	114.24	117.61	116.35	9999.00
20	3	9999.00	120.13	114.24	110.86	106.18	115.51	121.00	112.97	9999.00	243.66	98.46
	31- 41	75.74	76.19	240.66	92.84	251.14	252.26	104.90	102.04	158.11	160.53	115.09
	42- 52	95.87	90.67	95.01	97.17	103.19	100.61	104.90	174.17	179.73	104.90	172.17
20	3	131.03	124.77	109.58	130.62	127.28	132.78	122.26	47.33	192.34	104.47	112.97
	61- 71	97.60	129.37	115.93	105.32	146.30	128.53	105.75	237.14	214.83	212.91	224.77
	72- 82	160.94	118.03	103.19	105.75	9999.00	9999.00	174.17	239.05	212.14	217.14	219.81
	83- 89	228.20	121.00	198.20	111.28	9999.00	240.28	159.32	0.00			
20	3	91-101	143.02	84.12	236.90	224.39	9999.00	218.67	237.14	214.83	212.91	224.77
	102-112	220.58	219.05	225.54	234.63	232.74	209.45	215.22	239.05	212.14	217.14	219.81
	113-120	224.01	215.98	97.17	131.03	180.13	149.98	149.98	0.00			
20	5	9999.00	97.60	122.68	110.86	104.90	98.46	98.46	105.32	101.47	98.46	169.38
	13- 23	106.18	107.03	141.79	145.89	129.37	126.86	115.09	113.82	114.66	112.55	9999.00
20	5	9999.00	116.35	113.82	110.86	106.18	115.51	115.93	112.55	9999.00	244.79	98.46
	31- 41	75.74	76.19	224.01	93.27	252.26	253.37	105.32	101.47	159.73	161.74	116.35
	42- 52	96.30	91.97	95.01	97.17	103.61	101.04	105.32	175.76	181.71	9999.00	173.37
20	5	132.28	125.19	110.43	131.45	128.12	134.77	123.94	44.12	188.81	9999.00	109.58
	61- 71	97.17	131.45	115.51	105.32	147.94	130.20	106.60				
	72- 82	157.70	118.03	103.19	105.32	9999.00	9999.00	169.38				
	83- 89	9999.00	115.93	193.52	107.88	9999.00	241.04	156.08				
20	5	91-101	138.90	79.28	232.37	220.96	9999.00	218.67	217.52	214.83	213.30	224.39
	102-112	220.58	218.67	224.77	232.37	230.85	207.13	212.53	216.75	209.45	214.83	217.90
	113-120	223.25	213.30	97.17	132.28	176.95	149.98	149.98	0.00			
20	7	9999.00	97.60	123.94	110.86	104.90	98.46	98.46	105.32	101.47	98.46	162.95
	13- 23	106.18	107.03	141.79	145.89	129.37	127.28	114.66	113.40	110.86	108.31	9999.00
20	7	9999.00	112.13	113.82	110.43	106.18	115.09	112.55	112.13	9999.00	245.54	98.89
	31- 41	75.74	75.74	222.49	93.27	252.63	253.37	105.75	101.47	160.94	162.95	117.61
	42- 52	96.74	9999.00	9999.00	96.74	103.61	101.04	105.75	177.75	183.69	105.75	173.36
20	7	132.70	125.61	111.28	132.70	129.37	136.43	125.61	43.19	188.48	97.17	110.43
	61- 71	97.17	133.11	115.51	105.32	149.98	131.86	107.46				
	72- 82	154.86	117.61	103.19	105.32	9999.00	9999.00	166.57				
	83- 89	197.81	114.66	191.95	106.18	9999.00	241.04	154.05				
20	7	91-101	137.67	78.40	231.23	221.34	9999.00	219.05	217.90	215.22	214.07	224.39
	102-112	220.58	218.67	224.77	232.37	230.85	206.74	212.14	216.75	209.06	214.45	217.90
	113-120	223.25	213.30	97.60	133.53	176.16	149.98	149.98	0.00			

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APOLLO EKTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-B (1-21-65)
 TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT														
20 10	2- 12	9999.00	98.03	125.19	111.28	104.90	98.89	90.46	109.32	101.47	98.89	160.13				
	13- 23	106.60	107.03	141.79	145.89	129.78	127.28	114.66	112.97	110.43	107.03	9999.00				
	24- 29	9999.00	110.86	113.82	110.43	106.18	115.09									
	31- 41	75.74	75.74	219.43	93.27	252.63	252.63	111.28	112.55	9999.00	245.91	98.89				
	42- 52	96.74	94.14	95.01	96.74	103.61	101.47	106.18	101.47	161.74	164.16	118.45				
20 10	53- 59	132.70	126.03	112.55	133.53	129.37	138.08	126.86								
	61- 71	97.17	134.77	115.09	103.32	151.20	133.53	108.31	179.34	184.87	105.75	176.95				
	72- 82	152.02	117.61	102.76	104.90	9999.00	9999.00	164.96	43.19	188.42	97.17	9999.00				
	83- 89	192.34	9999.00	190.38	105.32	9999.00	241.04	151.61								
	91-101	136.84	78.84	94.14	230.00	221.34	9999.00	219.05	217.90	215.22	214.07	224.39				
20 10	102-112	9999.00	218.67	224.77	232.74	230.85	206.74	212.53	216.37	209.45	214.83	218.28				
	113-120	224.01	213.30	98.03	134.77	176.95	149.98	149.98	0.00							
	2- 12	9999.00	99.75	131.03	112.55	105.32	99.75	98.89	105.75	101.90	98.89	152.02				
	13- 23	107.03	107.46	142.61	146.30	131.86	128.53	115.93	112.55	112.55	107.46	9999.00				
	24- 29	9999.00	110.43	113.82	110.43	106.18	114.66									
20 20	31- 41	75.30	75.74	241.79	94.14	250.02	249.65	110.43	111.70	9999.00	244.41	99.75				
	42- 52	98.89	98.89	95.87	95.87	104.47	102.76	108.31	101.47	167.37	170.18	123.10				
	53- 59	133.94	131.86	115.51	137.25	131.45	140.96	129.37								
	61- 71	96.74	141.38	113.82	105.32	154.86	135.60	110.43	183.69	190.38	107.46	180.52				
	72- 82	143.84	116.35	101.90	104.47	9999.00	9999.00	159.32	42.73	190.38	97.60	118.45				
20 20	83- 89	183.29	113.82	188.42	104.47	9999.00	240.66	151.20								
	91-101	135.18	82.36	95.44	228.58	223.63	9999.00	220.58	219.43	216.75	215.60	225.54				
	102-112	222.11	220.20	226.30	233.88	232.37	207.98	213.50	217.52	210.22	215.60	219.43				
	113-120	224.77	213.68	99.75	137.57	180.92	149.98	149.98	0.00							
	2- 12	9999.00	100.61	135.60	112.97	106.18	101.04	99.32	106.60	102.76	99.32	147.53				
20 30	13- 23	107.45	108.31	143.84	147.94	133.94	129.78	117.61	112.97	114.66	109.58	9999.00				
	24- 29	9999.00	112.55	113.82	110.43	106.60	113.82									
	31- 41	75.30	75.74	245.54	95.44	248.15	247.41	110.43	111.28	9999.00	242.54	100.61				
	42- 52	101.04	103.19	96.74	95.87	104.90	104.90	110.41	101.90	171.38	174.57	126.03				
	53- 59	135.60	136.01	117.19	138.90	132.28	142.20	131.03								
20 30	61- 71	96.30	145.48	113.82	105.75	156.89	137.67	112.13	186.84	193.91	109.16	182.50				
	72- 82	141.79	115.51	101.47	104.04	9999.00	9999.00	156.08	41.81	191.95	98.89	122.26				
	83- 89	189.60	9999.00	186.06	103.61	149.98	238.78	150.80								
	91-101	133.94	86.74	95.44	226.58	224.01	9999.00	221.72	220.58	218.28	217.14	227.06				
	102-112	223.63	220.96	227.06	234.53	233.12	208.29	214.07	218.28	210.99	216.37	220.20				
20 40	113-120	226.30	214.45	9999.00	139.32	182.11	149.98	149.98	0.00							
	2- 12	9999.00	101.90	139.32	113.82	107.03	101.90	100.18	107.03	103.61	99.75	145.89				
	13- 23	108.31	108.73	145.07	149.16	136.01	131.03	119.29	114.24	116.77	111.28	9999.00				
	24- 29	9999.00	113.82	113.40	110.43	107.03	113.82									
	31- 41	75.74	76.19	249.65	95.87	246.66	246.66	111.70	110.86	9999.00	241.79	101.04				
20 40	42- 52	101.90	106.18	97.00	96.30	105.32	106.18	111.28	101.90	174.97	178.15	128.53				
	53- 59	137.67	138.90	118.43	140.55	133.11	143.02	132.28								
	61- 71	96.74	148.35	113.40	106.50	158.51	138.90	113.40	189.20	196.64	110.43	183.69				
	72- 82	141.79	115.51	101.47	104.47	9999.00	9999.00	9999.00	41.81	9999.00	100.61	126.03				
	83- 89	9999.00	9999.00	186.06	103.61	9999.00	237.65	150.39								
20 40	91-101	133.94	89.36	97.60	226.30	224.39	9999.00	222.45	221.72	219.43	218.67	227.82				
	102-112	224.77	222.11	228.20	236.14	233.88	209.45	214.85	218.67	211.76	217.14	220.58				
	113-120	227.44	215.60	102.76	140.55	183.29	149.98	149.98	0.00							
	2- 12	9999.00	100.61	135.60	112.97	106.18	101.04	99.32	106.60	102.76	99.32	147.53				
	13- 23	107.45	108.31	143.84	147.94	133.94	129.78	117.61	112.97	114.66	109.58	9999.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-B (1-21-65)
 TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
20	50	9999.00	103.19	141.79	115.09	107.46	102.76	100.61	107.88	104.04	100.18	188.02	
		108.73	109.16	146.30	150.39	137.67	131.86	121.84	123.94	109.16	105.32	9999.00	
20	50	9999.00	108.73	112.97	110.43	107.03	113.40		110.86	9999.00	240.66	101.90	
		9999.00	76.19	285.34	96.30	245.16	245.16	107.88	102.33	176.56	180.52	131.45	
20	50	104.04	108.73	98.89	96.74	107.46	107.46	112.55	190.77	196.64	108.31	186.84	
		145.89	145.07	119.71	143.84	136.84	146.71	136.43	43.65	152.02	93.71	99.32	
		96.74	150.39	112.97	107.03	162.15	142.61	114.24	221.72	219.43	218.67	227.44	
		141.79	115.09	101.90	104.90	9999.00	9999.00	195.47	217.14	210.22	214.83	218.67	
20	50	238.03	109.16	200.15	117.19	9999.00	231.23	155.27	0.00				
		134.35	73.08	91.10	230.95	225.92	9999.00	223.25					
		224.39	222.11	227.82	235.01	233.88	207.90	212.91					
		227.05	212.91	9999.00	143.94	189.20	149.98	149.98					
21	10	9999.00	106.18	145.89	115.93	108.73	105.32	101.90	109.16	106.18	101.47	231.76	
		110.43	110.43	149.16	153.24	140.14	135.18	127.70	131.03	105.32	105.32	9999.00	
21	10	9999.00	106.60	112.55	108.58	107.03	112.55		110.01	9999.00	235.77	103.19	
		75.74	76.63	303.01	98.03	241.79	242.91	104.47	102.76	179.73	184.08	138.49	
21	10	107.45	114.66	101.47	98.03	107.46	110.86	116.77	192.73	195.47	105.32	189.99	
		155.68	150.39	125.61	192.43	148.76	156.08	147.12	40.88	129.37	95.44	99.75	
		94.14	150.90	112.13	106.50	162.95	155.27	120.13	221.72	219.81	218.67	227.06	
		143.84	114.24	102.76	105.32	9999.00	9999.00	220.20	217.14	210.22	214.83	218.67	
21	10	235.77	104.47	204.03	127.28	9999.00	229.33	168.98	0.00				
		137.67	71.74	91.54	230.99	228.58	9999.00	223.25					
		224.39	222.11	227.82	234.53	233.50	207.51	211.76					
		227.05	212.53	107.45	151.51	196.25	149.98	149.98					
21	30	9999.00	108.73	147.94	115.77	109.58	107.46	102.76	110.01	107.88	102.76	212.14	
		112.55	111.70	152.02	153.27	141.79	137.67	129.78	132.70	106.18	105.32	9999.00	
21	30	9999.00	106.18	111.70	108.73	106.18	112.13		109.16	9999.00	237.27	104.04	
		76.19	77.07	305.16	99.75	243.29	245.54	104.47	102.76	182.11	186.06	142.20	
21	30	110.01	119.97	104.47	98.89	108.51	113.82	119.71	194.30	196.64	105.32	192.34	
		160.13	152.02	129.37	155.08	152.83	159.73	151.20	40.42	128.12	95.44	99.75	
		91.97	152.43	111.28	107.03	164.56	160.94	123.94	222.49	219.81	218.67	227.82	
		145.89	113.40	103.19	106.18	9999.00	9999.00	221.34	217.52	210.22	214.83	219.05	
		236.14	9999.00	204.42	127.70	9999.00	230.47	169.38	0.00				
21	30	138.90	71.74	91.97	230.99	229.33	9999.00	223.25					
		224.77	222.49	228.20	235.01	233.88	207.90	212.14					
		227.44	212.53	110.01	155.27	197.03	149.98	149.98					
21	50	9999.00	111.28	149.98	115.03	110.43	109.16	104.04	110.86	9999.00	104.47	212.14	
		114.24	113.40	154.05	157.70	143.84	140.14	131.86	134.77	106.18	105.32	9999.00	
21	50	9999.00	105.75	111.28	108.73	106.18	111.28		108.73	9999.00	239.91	104.90	
		76.19	77.95	306.59	101.04	246.66	248.15	104.04	103.19	185.27	188.42	146.30	
21	50	112.97	122.68	107.46	100.18	108.73	117.19	123.10	196.64	198.59	105.75	193.91	
		162.15	154.05	131.03	9999.00	155.27	162.15	153.24	40.42	127.28	95.44	99.75	
		90.67	154.05	110.43	109.31	166.17	164.96	127.28	222.87	220.96	220.20	228.20	
		147.94	112.97	104.04	107.03	9999.00	9999.00	221.72	217.90	210.60	214.83	219.43	
		236.14	9999.00	204.81	127.70	9999.00	233.12	169.38	0.00				
21	50	139.73	71.30	91.10	230.47	229.33	9999.00	224.39					
		225.92	222.87	228.59	235.39	234.26	207.90	213.30					
		227.82	212.91	112.97	158.11	197.42	149.98	149.98					

A0-LL3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-B (1-21-65)
 TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS		TEMPERATURES - FAHRENHEIT															
22 10	2- 12	9999.00	113.82	151.61	119.29	111.28	111.28	104.90	111.70	111.70	106.18	211.37					
	13- 23	116.77	115.09	157.30	160.13	145.89	142.20	133.53	136.43	105.32	104.04	9999.00					
22 10	24- 29	9999.00	104.90	110.43	109.73	105.75	110.86										
	31- 41	76.19	77.95	306.95	101.90	248.15	249.65	103.19	108.31	9999.00	241.04	105.75					
	42- 52	115.51	125.61	110.43	101.47	109.58	120.13	126.03	104.04	187.63	190.77	150.39					
22 10	53- 59	163.76	155.27	132.70	161.34	156.89	163.36	154.05									
	61- 71	89.80	155.27	110.01	109.73	167.77	167.77	129.37	197.81	200.15	106.18	195.08					
	72- 82	149.57	112.55	104.90	108.31	9999.00	9999.00	221.72	39.96	126.45	94.57	99.75					
22 10	83- 89	236.14	9999.00	204.42	127.28	9999.00	233.88	168.58									
	91-101	140.14	70.85	91.10	230.09	228.58	9999.00	224.39	224.01	220.96	220.58	9999.00					
	102-112	225.92	223.25	229.33	235.77	234.63	208.67	213.30	218.28	9999.00	215.22	220.58					
	113-120	228.59	213.30	115.09	159.73	197.03	149.98	149.98	0.00								
22 30	2- 12	9999.00	115.93	153.24	121.00	112.55	113.40	105.75	112.97	113.82	107.46	215.22					
	13- 23	118.03	116.77	159.73	162.15	147.12	144.25	136.01	138.90	109.16	108.73	9999.00					
22 30	24- 29	9999.00	108.73	110.43	109.31	105.75	110.43										
	31- 41	76.19	77.07	302.29	103.19	248.15	249.65	107.03	108.31	9999.00	242.16	107.03					
	42- 52	118.03	127.70	112.55	102.33	110.43	122.68	128.53	104.04	189.99	192.73	152.83					
22 30	53- 59	166.17	157.30	134.36	163.76	158.92	165.77	156.49									
	61- 71	89.35	156.89	110.01	109.58	170.18	170.18	131.45	200.54	201.78	107.46	197.42					
	72- 82	151.61	112.55	105.75	109.73	9999.00	9999.00	224.01	41.81	129.37	97.60	181.90					
22 30	83- 89	238.03	9999.00	206.74	129.37	9999.00	235.01	171.78									
	91-101	141.79	73.52	93.71	232.37	230.85	9999.00	226.30	224.77	222.87	221.72	238.09					
	102-112	227.44	224.77	230.85	237.65	236.52	210.22	214.83	219.05	212.14	217.14	228.96					
	113-120	230.09	214.83	117.61	161.74	200.54	149.98	149.98	0.00								

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-B (1-21-65)
 TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
 THERM. DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
		1	2	3	4	5	6	7	8	9	10	
19 41	801-B11	9999.00	9999.00	79.00	9999.00	9999.00	97.00	99.00	96.00	97.00	106.00	107.00
	812-B22	121.00	110.00	125.00	104.00	107.00	96.00	99.00	96.00	112.00	110.00	123.00
	823-B24	94.00	-0.00									
19 50	801-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	99.00	97.00	98.00	106.00	106.00
	812-B22	122.00	111.00	126.00	104.00	107.00	96.00	99.00	96.00	112.00	110.00	124.00
	823-B24	109.00	-0.00									
20 0	801-B11	9999.00	9999.00	79.00	9999.00	9999.00	98.00	100.00	97.00	98.00	107.00	109.00
	812-B22	122.00	112.00	126.00	105.00	108.00	96.00	99.00	96.00	113.00	111.00	124.00
	823-B24	111.00	-0.00									
20 10	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	98.00	100.00	98.00	98.00	108.00	110.00
	812-B22	123.00	114.00	127.00	105.00	108.00	96.00	99.00	96.00	114.00	112.00	125.00
	823-B24	112.00	-0.00									
20 20	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	99.00	99.00	99.00	99.00	109.00	112.00
	812-B22	126.00	116.00	128.00	105.00	108.00	96.00	99.00	96.00	115.00	112.00	124.00
	823-B24	113.00	-0.00									
20 30	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	99.00	100.00	99.00	99.00	110.00	113.00
	812-B22	128.00	117.00	129.00	105.00	109.00	96.00	99.00	96.00	115.00	113.00	124.00
	823-B24	115.00	-0.00									
20 40	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	100.00	101.00	100.00	100.00	110.00	113.00
	812-B22	130.00	118.00	130.00	106.00	109.00	97.00	100.00	97.00	116.00	114.00	130.00
	823-B24	116.00	-0.00									
20 50	801-B11	9999.00	9999.00	9999.00	9999.00	9999.00	100.00	102.00	101.00	101.00	111.00	113.00
	812-B22	132.00	119.00	131.00	105.00	110.00	97.00	100.00	97.00	117.00	116.00	132.00
	823-B24	121.00	-0.00									
21 0	801-B11	9999.00	9999.00	9999.00	9999.00	9999.00	101.00	102.00	101.00	102.00	112.00	117.00
	812-B22	135.00	120.00	132.00	107.00	110.00	98.00	101.00	98.00	118.00	117.00	133.00
	823-B24	125.00	-0.00									
21 10	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	102.00	102.00	103.00	103.00	113.00	118.00
	812-B22	136.00	122.00	133.00	108.00	111.00	99.00	102.00	98.00	119.00	118.00	135.00
	823-B24	127.00	-0.00									
21 20	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	102.00	103.00	104.00	104.00	114.00	120.00
	812-B22	138.00	123.00	135.00	109.00	112.00	99.00	102.00	99.00	120.00	119.00	137.00
	823-B24	129.00	-0.00									
21 30	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	103.00	104.00	105.00	105.00	115.00	121.00
	812-B22	139.00	125.00	136.00	109.00	113.00	100.00	103.00	100.00	121.00	120.00	138.00
	823-B24	131.00	-0.00									
21 40	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	103.00	104.00	107.00	107.00	116.00	121.00
	812-B22	141.00	126.00	138.00	110.00	114.00	101.00	104.00	100.00	122.00	121.00	140.00
	823-B24	133.00	-0.00									

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-B (1-21-65)
 TEST POINT NO. 9, SOLAR ON, FACING SOLAR, HOT LUNAR SURFACE,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
21 50	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	104.00	103.00	107.00	107.00	117.00	123.00
	812-B22	142.00	127.00	139.00	111.00	115.00	102.00	105.00	101.00	123.00	122.00	141.00
	823-B24	134.00	-0.00									
22 0	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	104.00	105.00	108.00	108.00	118.00	124.00
	812-B22	144.00	128.00	140.00	112.00	115.00	103.00	105.00	102.00	124.00	123.00	142.00
	823-B24	135.00	-0.00									
22 10	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	105.00	105.00	109.00	109.00	118.00	124.00
	812-B22	144.00	129.00	141.00	113.00	115.00	104.00	106.00	103.00	125.00	124.00	143.00
	823-B24	136.00	-0.00									
22 20	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	105.00	106.00	110.00	110.00	120.00	125.00
	812-B22	145.00	130.00	142.00	114.00	117.00	104.00	107.00	104.00	125.00	125.00	145.00
	823-B24	137.00	-0.00									
22 30	801-B11	9999.00	9999.00	80.00	9999.00	9999.00	106.00	107.00	111.00	111.00	120.00	126.00
	812-B22	146.00	130.00	144.00	115.00	118.00	105.00	108.00	104.00	127.00	126.00	146.00
	823-B24	139.00	-0.00									
22 35	801-B11	9999.00	9999.00	81.00	9999.00	9999.00	106.00	107.00	112.00	112.00	121.00	127.00
	812-B22	148.00	131.00	144.00	115.00	119.00	105.00	108.00	105.00	127.00	127.00	147.00
	823-B24	139.00	-0.00									

EXPERIMENT II-c

LUNAR SIMULATION

VERTICAL TEAR IN RIGHT LEG

"V" TEAR IN LEFT LEG

Note: Test Points 3 and 5 were terminated early due to excessively high temperatures on the pressure suit. The temperature data that was taken for Test Point 3 are present at the first of test point 4. The Brown recorder data for Test Point 5, are presented as Test Point 5, but the Digital Voltmeter data are presented at the start of Test Point 6.

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME CHANNELS		TEMPERATURES - FAHRENHEIT										
9	1	9999.00	69.96	51.91	69.62	70.41	69.52	69.52	70.41	71.30	70.85	46.42
		69.52	72.63	73.52	73.97	70.85	71.30	60.08	62.34	10.20	11.16	58.28
		77.93	9999.00	65.94	65.49	67.28	65.04					
9	1	66.83	67.28	69.96	69.96	52.37	54.64	18.34	65.49	9999.00	51.91	69.52
		67.73	59.18	68.17	63.59	69.07	67.28	66.83	67.28	63.69	64.59	9999.00
		64.14	66.38	66.83	63.69	66.38	65.04					
9	1	47.33	36.71	61.89	56.92	63.69	56.46	62.34	51.00	58.28	53.73	62.79
		46.42	60.54	58.73	58.28	61.44	51.45	87.62	-18.33	81.48	37.17	38.10
		65.94	28.76	117.61	9999.00	9999.00	56.92	13.08				
9	1	45.50	18.82	38.57	136.84	152.02	9999.00	29.70	30.17	28.29	26.40	67.73
		9999.00	42.73	72.19	121.00	123.10	123.42	110.86	109.16	116.77	107.88	104.47
		62.34	111.70	69.96	63.69	144.66	149.98	149.98	0.00			
9	3	9999.00	69.96	51.00	68.52	70.41	69.52	69.07	70.41	71.30	71.30	124.77
		69.96	72.19	73.08	73.52	70.41	70.85	73.08	74.41	77.51	80.16	138.90
		160.94	9999.00	65.94	65.04	66.83	64.59					
9	3	67.28	66.83	69.52	69.52	63.24	66.38	89.36	65.49	9999.00	70.85	69.52
		67.73	59.18	67.73	62.79	68.62	67.28	66.83	67.28	63.69	64.14	9999.00
		70.41	65.94	66.83	65.49	64.59	66.38	65.49				
9	3	46.42	36.24	61.44	56.92	66.83	56.92	62.34	51.91	58.73	55.55	65.04
		45.04	60.54	59.18	57.92	65.94	53.28	149.16	11.16	130.20	82.36	78.40
		178.54	69.52	187.63	123.94	9999.00	-286.54	53.73				
9	3	80.60	56.01	78.40	203.26	205.19	9999.00	48.25	49.17	46.42	43.19	96.74
		70.41	66.83	102.33	158.11	155.68	157.30	145.07	142.61	150.80	141.79	136.84
		68.93	142.89	69.52	65.49	180.13	149.98	149.98	0.00			
9	5	9999.00	69.52	50.54	68.17	70.41	69.52	69.07	70.41	71.30	70.85	168.98
		69.96	72.19	73.08	73.52	70.41	70.85	84.99	84.99	99.75	98.03	189.60
		222.87	104.04	65.49	64.59	66.83	64.14					
9	5	66.83	66.83	69.52	69.52	75.74	79.28	104.04	64.59	9999.00	83.24	69.07
		67.73	59.18	67.73	62.34	68.62	67.28	67.28	66.83	63.69	64.59	9999.00
		79.28	67.28	67.73	67.73	66.38	66.83	66.38				
9	5	45.50	36.24	61.44	58.26	69.07	59.18	62.79	54.64	60.08	58.28	70.41
		44.12	60.54	60.09	59.16	70.41	56.46	166.97	22.15	141.79	89.80	87.62
		215.22	80.60	197.81	132.26	9999.00	80.60	81.48				
9	5	91.10	65.04	86.31	215.75	210.99	9999.00	66.83	67.28	62.34	69.07	112.55
		81.48	82.90	116.77	168.18	160.53	166.97	155.68	153.24	161.34	153.24	146.71
		103.61	155.49	69.52	67.73	191.17	149.98	149.98	0.00			
9	7	9999.00	69.07	49.63	68.17	69.96	69.07	68.62	69.96	71.30	70.85	177.35
		69.52	72.19	73.08	73.97	70.41	70.85	91.97	91.54	104.90	101.90	210.60
		249.27	9999.00	65.49	64.59	66.83	64.59					
9	7	67.28	66.83	69.96	69.52	89.36	93.71	107.46	64.59	9999.00	93.27	69.07
		67.73	60.08	67.73	61.89	68.62	67.28	67.73	66.83	64.59	64.59	9999.00
		86.74	69.52	69.07	70.41	68.62	67.28	68.62				
9	7	44.59	38.10	62.34	60.54	75.74	63.24	63.69	58.73	62.34	60.99	78.40
		45.04	60.99	62.34	60.54	76.19	60.99	177.75	26.40	143.43	91.97	90.23
		229.71	85.87	200.15	134.36	9999.00	91.10	100.61				
9	7	95.87	67.73	88.05	219.43	211.76	9999.00	81.92	81.92	77.95	73.97	123.10
		100.61	96.74	126.03	171.78	162.15	170.58	160.53	158.11	165.77	157.70	152.43
		114.65	160.94	69.52	71.30	199.37	149.98	149.98	0.00			

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ADOLLO EXTRAVENICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-C (1-27-65)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME	CHANNELS	TEMPERATURES - FARENHEIT											
		1	2	3	4	5	6	7	8	9	10		
9 9	2-12	9999.00	69.07	49.63	67.73	69.96	69.07	69.07	69.07	71.30	69.96	70.85	180.92
	13-23	69.07	72.19	73.08	73.52	70.41	70.41	95.44	95.44	106.60	103.61	222.49	
	24-29	263.38	109.58	65.04	64.59	9999.00	64.14						
	31-41	67.28	67.73	69.52	69.52	104.47	109.16	108.73	108.73	9999.00	104.47	69.07	
	42-52	67.28	58.73	67.73	61.44	68.17	67.28	68.17	68.17	64.59	65.04	9999.00	
9 9	53-59	91.97	71.74	70.85	73.52	71.30	69.07	69.07					
	51-71	44.12	41.81	62.79	61.89	82.80	68.62	65.04	65.04	65.04	63.69	84.56	
	72-82	47.33	61.89	64.14	62.34	81.04	66.83	183.69	183.69	143.84	93.27	91.97	
	83-89	235.77	89.36	203.64	136.01	9999.00	101.47	113.82					
	91-101	101.90	69.07	89.80	222.49	213.30	9999.00	93.27	95.01	91.10	86.74	132.28	
9 11	102-112	112.55	109.73	134.35	175.76	165.77	174.17	164.56	162.95	170.18	162.95	157.70	
	113-120	124.35	162.37	69.52	74.41	201.70	149.98	149.98	0.00				
	2-12	9999.00	69.07	51.00	67.28	69.07	69.07	67.73	67.73	70.41	70.41	183.69	
	13-23	69.07	71.30	72.19	73.52	69.96	69.96	97.17	97.17	108.31	104.04	228.58	
	24-29	269.64	110.43	64.59	64.59	65.49	64.59						
9 11	31-41	66.83	66.83	69.07	69.07	119.29	125.19	109.16	64.59	9999.00	116.77	69.07	
	42-52	66.83	60.54	66.83	60.08	67.28	66.83	69.52	65.49	65.04	64.59	9999.00	
	53-59	95.44	73.52	73.52	75.74	73.97	69.52	73.52					
	51-71	43.19	46.42	64.59	64.59	86.74	73.97	65.49	65.94	66.83	64.59	88.93	
	72-82	51.00	62.34	65.49	64.59	84.56	71.30	188.42	29.70	145.89	95.44	92.41	
9 11	83-89	239.15	91.97	201.70	137.57	9999.00	112.55	121.84					
	91-101	104.04	69.96	91.10	224.39	215.22	9999.00	106.60	106.18	102.33	96.30	140.96	
	102-112	121.00	118.87	141.79	180.13	169.78	178.15	169.78	168.18	174.17	166.17	162.15	
	113-120	133.53	170.18	69.07	77.95	204.42	149.98	149.98	0.00				
	2-12	9999.00	69.07	51.00	67.28	69.07	69.07	67.73	67.73	70.41	70.41	186.06	
9 13	13-23	69.07	70.85	73.52	73.52	69.52	69.52	99.75	99.75	108.31	109.32	231.99	
	24-29	273.31	112.55	64.59	64.59	65.04	64.59						
	31-41	69.07	69.07	69.07	69.07	135.18	140.14	110.43	65.04	9999.00	126.86	69.07	
	42-52	66.83	60.99	66.83	60.06	67.28	66.83	69.07	65.49	65.49	65.94	9999.00	
	53-59	98.03	74.86	73.52	77.95	75.30	70.41	74.41	74.41				
9 13	51-71	43.19	51.00	64.59	64.59	91.10	77.95	66.83	70.41	69.52	66.38	92.41	
	72-82	53.28	64.59	66.83	65.49	88.05	77.95	189.99	32.51	145.89	95.44	95.44	
	83-89	239.91	95.44	204.03	137.67	9999.00	123.10	129.37					
	91-101	108.31	70.41	91.54	224.77	215.22	9999.00	115.51	115.09	111.28	102.76	145.89	
	102-112	129.37	127.28	147.94	182.11	172.97	180.13	172.97	170.18	178.15	170.18	166.17	
9 15	113-120	140.14	172.97	69.07	78.84	204.42	149.98	149.98	0.00				
	2-12	9999.00	69.07	52.37	67.28	69.07	69.07	69.07	69.07	70.41	69.96	186.06	
	13-23	69.07	70.85	73.52	73.52	70.41	70.85	99.75	101.47	108.31	109.32	232.37	
	24-29	275.87	112.55	64.59	64.59	65.94	64.59						
	31-41	69.07	69.07	69.07	69.52	153.65	158.11	109.58	65.04	9999.00	139.73	69.07	
9 15	42-52	69.07	61.44	66.83	60.08	69.07	66.83	69.96	65.49	65.94	65.94	9999.00	
	53-59	100.18	77.95	75.30	80.16	77.95	71.74	77.95					
	51-71	43.19	56.01	65.49	65.94	91.97	80.16	69.07	73.97	73.52	69.07	95.44	
	72-82	56.92	64.59	69.07	66.38	91.10	82.36	193.52	32.51	145.89	95.44	93.27	
	83-89	241.79	95.174	204.03	137.57	9999.00	134.77	133.94	123.52				
9 15	91-101	110.43	69.96	91.10	227.82	216.37	9999.00	123.52	123.10	119.29	115.09	153.65	
	102-112	137.67	135.60	153.24	186.06	177.35	184.48	176.16	174.17	180.52	173.77	170.18	
	113-120	145.89	176.16	69.07	82.36	205.19	149.98	149.98	0.00				

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APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
		9999.00	69.07	64.59	68.17	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
9 25	2- 12	9999.00	69.07	64.59	68.17	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
	13- 23	69.95	71.30	71.30	73.52	70.85	70.85	70.85	70.85	70.85	70.85	70.85	70.85	70.85	70.85	70.85	70.85
	24- 29	282.80	116.77	65.04	65.94	65.94	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38	66.38
9 25	31- 41	70.41	69.96	69.96	69.96	213.30	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20
	42- 52	69.07	66.83	66.83	57.82	67.28	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
	53- 59	108.31	83.68	82.35	87.52	86.74	78.84	78.84	78.84	78.84	78.84	78.84	78.84	78.84	78.84	78.84	78.84
9 25	61- 71	44.12	78.80	67.28	70.85	100.18	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10
	72- 82	73.52	69.07	73.52	71.30	99.75	100.61	100.61	100.61	100.61	100.61	100.61	100.61	100.61	100.61	100.61	100.61
	83- 89	247.41	109.58	209.45	141.79	9999.00	188.81	188.81	188.81	188.81	188.81	188.81	188.81	188.81	188.81	188.81	188.81
9 25	91-101	129.37	74.96	95.87	235.39	220.96	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
	102-112	166.17	162.15	174.17	200.93	193.91	197.81	197.81	197.81	197.81	197.81	197.81	197.81	197.81	197.81	197.81	197.81
	113-120	170.18	189.99	70.41	88.93	208.67	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98
9 35	2- 12	9999.00	69.07	77.95	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
	13- 23	70.41	71.30	71.30	72.19	72.19	72.19	72.19	72.19	72.19	72.19	72.19	72.19	72.19	72.19	72.19	72.19
	24- 29	280.25	112.55	66.83	66.83	65.94	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07	69.07
9 35	31- 41	73.52	72.19	71.74	71.30	245.54	249.65	249.65	249.65	249.65	249.65	249.65	249.65	249.65	249.65	249.65	249.65
	42- 52	71.30	73.52	66.83	57.82	68.17	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30
	53- 59	113.82	91.10	86.74	93.27	91.10	84.99	84.99	84.99	84.99	84.99	84.99	84.99	84.99	84.99	84.99	84.99
9 35	61- 71	46.89	96.30	69.52	73.97	104.47	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60	97.60
	72- 82	88.05	70.85	73.97	74.41	104.90	114.24	114.24	114.24	114.24	114.24	114.24	114.24	114.24	114.24	114.24	114.24
	83- 89	243.65	112.55	205.59	137.57	9999.00	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20	220.20
9 35	91-101	133.94	71.30	91.97	232.37	217.14	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
	102-112	184.08	180.52	188.42	203.58	201.31	201.70	201.70	201.70	201.70	201.70	201.70	201.70	201.70	201.70	201.70	201.70
	113-120	186.05	195.25	73.52	95.44	205.58	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98
9 45	2- 12	9999.00	70.41	88.49	70.41	70.41	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30	71.30
	13- 23	73.52	71.74	73.52	73.52	73.97	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41	74.41
	24- 29	280.61	112.97	69.07	69.07	66.83	69.96	69.96	69.96	69.96	69.96	69.96	69.96	69.96	69.96	69.96	69.96
9 45	31- 41	74.85	73.97	73.52	73.52	243.66	246.66	246.66	246.66	246.66	246.66	246.66	246.66	246.66	246.66	246.66	246.66
	42- 52	73.52	80.16	69.07	57.82	69.07	73.97	73.97	73.97	73.97	73.97	73.97	73.97	73.97	73.97	73.97	73.97
	53- 59	117.61	92.84	91.10	95.30	95.44	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10	91.10
9 45	61- 71	51.00	105.50	70.85	77.95	106.18	104.04	104.04	104.04	104.04	104.04	104.04	104.04	104.04	104.04	104.04	104.04
	72- 82	96.30	73.52	75.30	77.95	108.31	121.00	121.00	121.00	121.00	121.00	121.00	121.00	121.00	121.00	121.00	121.00
	83- 89	245.54	113.40	208.29	138.98	9999.00	224.39	224.39	224.39	224.39	224.39	224.39	224.39	224.39	224.39	224.39	224.39
9 45	91-101	135.13	73.52	93.27	235.77	219.43	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
	102-112	193.91	189.99	197.81	212.91	211.37	207.90	207.90	207.90	207.90	207.90	207.90	207.90	207.90	207.90	207.90	207.90
	113-120	197.42	200.54	73.97	97.50	205.58	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98
9 55	2- 12	9999.00	73.52	95.44	71.30	70.85	73.52	73.52	73.52	73.52	73.52	73.52	73.52	73.52	73.52	73.52	73.52
	13- 23	73.52	74.85	74.85	74.41	76.63	76.63	76.63	76.63	76.63	76.63	76.63	76.63	76.63	76.63	76.63	76.63
	24- 29	282.07	114.24	70.41	70.41	69.07	71.74	71.74	71.74	71.74	71.74	71.74	71.74	71.74	71.74	71.74	71.74
9 55	31- 41	76.63	75.19	75.74	75.30	242.16	243.66	243.66	243.66	243.66	243.66	243.66	243.66	243.66	243.66	243.66	243.66
	42- 52	75.30	84.56	69.07	60.00	69.52	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95	77.95
	53- 59	121.00	95.44	91.10	99.75	96.30	91.54	91.54	91.54	91.54	91.54	91.54	91.54	91.54	91.54	91.54	91.54
9 55	61- 71	51.45	112.55	73.52	77.95	108.31	108.31	108.31	108.31	108.31	108.31	108.31	108.31	108.31	108.31	108.31	108.31
	72- 82	101.04	73.52	77.95	77.95	108.31	125.19	125.19	125.19	125.19	125.19	125.19	125.19	125.19	125.19	125.19	125.19
	83- 89	246.65	113.82	209.06	138.49	9999.00	223.25	223.25	223.25	223.25	223.25	223.25	223.25	223.25	223.25	223.25	223.25
9 55	91-101	134.77	73.52	95.44	236.14	219.81	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
	102-112	197.81	197.42	201.70	215.75	215.60	209.45	209.45	209.45	209.45	209.45	209.45	209.45	209.45	209.45	209.45	209.45
	113-120	201.70	204.03	77.95	99.75	208.29	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98	149.98

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT														
10 10	2- 12	9999.00	77.95	104.47	73.52	73.52	74.86	73.97	73.52	73.52	73.52	117.61	73.52	73.52	196.25	
	13- 23	74.85	77.95	77.95	77.95	78.40	78.84	116.77	78.40	78.40	108.31	112.55	108.31	112.55	239.91	
	24- 29	284.25	113.82	73.52	71.30	69.96	73.52		69.96	69.96		69.07	112.55	109.16	9999.00	
10 10	31- 41	77.95	77.95	77.95	77.95	249.65	251.14	112.55	249.65	249.65	239.91	112.55	239.91	74.41		
	42- 52	79.28	92.41	73.52	64.59	9999.00	79.28	82.36	9999.00	9999.00	109.16	82.36	109.16	9999.00		
	53- 59	125.19	99.75	95.44	101.04	99.75	95.44	99.75	95.44	95.44	99.75	145.89	133.53	78.40	125.19	
10 10	51- 71	26.45	121.00	73.52	82.36	109.16	112.55	88.05	109.16	109.16	205.58	37.17	152.02	96.30	99.75	
	72- 82	9999.00	77.95	79.72	79.72	112.55	129.37	205.58	112.55	112.55	197.81	200.93	197.81	197.03	9999.00	
	83- 89	247.41	116.77	209.45	141.79	9999.00	228.20	161.34	9999.00	9999.00	216.37	209.45	216.37	209.06	209.45	
10 10	91-101	138.04	73.52	95.44	939.91	223.25	9999.00	201.70	223.25	223.25	209.45	209.45	216.37	209.06	209.45	
	102-112	205.53	204.81	209.45	223.25	220.96	213.30	209.45	220.96	220.96	213.30	209.45	216.37	209.06	209.45	
	113-120	209.45	208.67	78.84	104.04	208.67	149.98	149.98	208.67	208.67	149.98	0.00	149.98	0.00	0.00	
10 30	2- 12	9999.00	82.36	112.97	77.75	74.41	77.95	77.95	74.41	74.41	75.30	74.41	75.30	74.41	197.42	
	13- 23	77.95	75.30	82.36	82.36	82.36	83.24	121.00	82.36	82.36	108.31	121.84	108.31	243.29		
	24- 29	287.52	114.24	73.97	73.52	74.86	74.86		73.52	73.52		73.52	9999.00	243.29	77.95	
10 30	31- 41	77.95	77.95	79.28	78.94	249.65	251.14	112.55	249.65	249.65	121.84	70.85	123.10	121.84	9999.00	
	42- 52	83.24	99.75	77.95	69.07	73.52	83.24	86.74	73.52	73.52	123.10	70.85	123.10	9999.00		
	53- 59	129.37	100.61	97.17	104.04	104.04	99.75	104.04	104.04	104.04	154.05	154.05	143.43	83.24	126.03	
10 30	61- 71	61.44	125.19	75.30	82.80	112.55	118.03	91.54	112.55	112.55	208.67	38.57	154.05	97.17	99.75	
	72- 82	112.55	77.95	82.36	82.36	112.97	131.45	208.67	112.97	112.97	204.42	208.67	205.58	204.42	219.05	
	83- 89	250.59	116.77	212.14	141.79	9999.00	231.61	162.15	9999.00	9999.00	213.30	213.30	219.43	212.53	213.30	
10 30	91-101	138.49	74.41	95.44	939.91	224.01	9999.00	209.45	224.01	224.01	213.30	213.30	219.43	212.53	213.30	
	102-112	213.50	211.37	216.37	227.06	224.77	217.14	149.98	224.77	224.77	149.98	0.00	149.98	0.00	0.00	
	113-120	216.37	211.76	83.24	104.04	208.67	149.98	149.98	208.67	208.67	149.98	0.00	149.98	0.00	0.00	
10 50	2- 12	9999.00	86.74	121.00	78.40	77.95	82.36	79.28	77.95	77.95	78.40	77.95	78.40	77.95	197.03	
	13- 23	82.36	77.95	87.18	86.74	86.74	87.18	125.19	86.74	86.74	108.31	125.19	108.31	243.29		
	24- 29	286.43	113.82	77.95	77.95	73.97	77.95		73.97	73.97		73.52	9999.00	239.91	79.72	
10 50	31- 41	77.95	79.94	82.36	82.36	246.28	247.41	112.55	246.28	246.28	131.03	73.52	131.86	131.03	9999.00	
	42- 52	87.62	105.32	82.36	73.52	75.30	87.18	91.10	82.36	82.36	158.11	73.52	131.86	131.03	9999.00	
	53- 59	130.20	104.04	99.75	108.31	104.90	101.04	105.32	104.90	104.90	149.57	158.11	149.57	86.74	129.78	
10 50	51- 71	66.53	130.20	77.95	85.74	113.82	123.10	95.44	113.82	113.82	208.29	41.81	154.05	96.30	99.75	
	72- 82	116.77	79.72	82.36	85.74	116.77	133.53	208.29	116.77	116.77	208.29	41.81	154.05	96.30	99.75	
	83- 89	250.02	115.77	211.75	141.38	9999.00	228.58	162.15	9999.00	9999.00	212.91	212.91	209.45	208.67	220.58	
10 50	91-101	137.67	73.52	95.44	939.91	220.96	9999.00	213.30	220.96	220.96	212.91	212.91	220.58	213.30	215.60	
	102-112	217.14	214.83	217.14	228.58	228.20	219.43	149.98	228.20	228.20	212.91	212.91	220.58	213.30	215.60	
	113-120	219.61	212.53	110.65	103.31	209.45	149.98	149.98	209.45	209.45	149.98	0.00	149.98	0.00	0.00	
11 10	2- 12	9999.00	91.54	125.19	82.36	78.40	84.12	82.36	78.40	78.40	82.36	77.95	82.36	79.72	197.61	
	13- 23	82.67	78.84	92.41	91.10	88.05	91.10	126.45	88.05	88.05	109.16	129.37	112.55	109.16	243.66	
	24- 29	287.52	115.77	77.95	77.95	77.95	78.40		77.95	77.95		75.30	9999.00	243.66	82.36	
11 10	31- 41	78.84	79.28	83.68	83.24	250.76	251.14	113.40	250.76	250.76	138.49	75.30	138.49	138.49	9999.00	
	42- 52	91.54	110.01	86.74	78.40	77.95	91.10	92.41	77.95	77.95	157.70	75.30	138.49	138.49	9999.00	
	53- 59	133.53	102.32	101.47	108.31	108.31	104.04	108.31	108.31	108.31	164.96	164.96	157.70	87.18	133.53	
11 10	51- 71	70.41	133.53	78.40	87.18	115.09	129.37	99.75	115.09	115.09	209.45	41.81	154.05	99.75	99.75	
	72- 82	117.19	82.36	84.12	86.74	116.77	135.18	209.45	116.77	116.77	209.45	41.81	154.05	99.75	99.75	
	83- 89	251.14	117.19	212.91	142.20	9999.00	232.37	162.15	9999.00	9999.00	213.30	213.30	224.01	212.53	213.30	
11 10	91-101	141.79	74.41	95.44	939.91	223.63	9999.00	216.37	223.63	223.63	215.98	215.98	224.01	212.53	224.77	
	102-112	219.61	217.14	220.96	231.53	230.85	220.96	216.37	230.85	230.85	215.98	215.98	224.01	212.53	224.77	
	113-120	223.63	215.60	91.54	109.16	211.76	149.98	149.98	211.76	211.76	149.98	0.00	149.98	0.00	0.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 WAS 9-2414, EXP. 11-5 (1-27-55)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
		9999.00	90.74	82.56	129.57	84.12	84.12	50.16	87.18	82.36	82.00	82.36	197.81	131.05	112.55	109.16	243.66
11	30	2-12	95.30	129.57	84.12	84.12	50.16	87.18	82.36	82.00	82.36	197.81	131.05	112.55	109.16	243.66	
		13-23	82.56	97.17	95.30	91.54	95.44	95.44	82.36								
		24-29	115.77	79.25	79.25	76.40	82.36										
11	30	31-41	76.40	73.44	85.74	251.14	251.14	251.14	77.95	9999.00	246.28	86.74	77.95	145.89	145.89	9999.00	
		42-52	95.44	91.10	83.24	79.28	95.44	95.44									
		53-59	134.55	104.04	113.45	108.73	105.32	109.58									
11	30	61-71	74.41	80.15	91.10	117.19	131.83	106.61	169.38	162.15	91.10	137.67	100.18	154.05	99.75	100.18	
		72-82	121.00	82.56	86.74	89.37	118.03	137.67	43.65	154.05	99.75	100.18					
		83-89	251.14	213.50	143.55	9999.00	234.63	164.56	219.45	217.14	215.98	227.06	220.58	224.77	218.67	220.58	
11	30	91-101	141.79	96.59	242.54	224.77	9999.00	220.58	219.45	217.14	215.98	227.06	220.58	224.77	218.67	220.58	
		102-112	224.77	219.51	252.57	252.57	224.77	224.77	219.45	217.14	215.98	227.06	220.58	224.77	218.67	220.58	
		113-120	224.77	215.75	112.55	215.30	149.98	149.98	0.00								
11	50	2-12	9999.00	109.16	85.74	133.53	82.36	91.10	82.36	86.74	86.74	197.81	133.53	113.40	112.55	246.28	
		13-23	58.65	82.56	100.41	100.41	95.44	97.60	82.36								
		24-29	287.63	117.19	82.56	79.72	82.36										
11	50	31-41	77.95	77.95	86.74	259.76	259.76	251.14	78.84	9999.00	245.91	86.74	78.84	149.57	152.43	9999.00	
		42-52	99.75	117.19	95.44	87.18	82.36	97.17	78.84	149.57	152.43	9999.00					
		53-59	137.67	104.75	105.32	112.55	110.43	108.31									
11	50	61-71	77.95	137.67	82.56	118.87	134.36	104.04	172.57	166.17	91.10	137.67	101.47	156.49	99.75	101.47	
		72-82	121.00	87.62	91.10	121.00	138.08	209.45	46.42	156.49	99.75	101.47					
		83-89	253.57	213.50	143.55	9999.00	232.37	165.37	220.96	219.61	217.14	228.58	219.61	227.44	219.61	220.58	
11	50	91-101	141.79	96.74	243.29	224.77	9999.00	220.96	219.61	227.44	219.61	228.58	219.61	227.44	219.61	220.58	
		102-112	224.77	224.77	234.53	234.53	224.77	224.77	219.45	219.45	219.45	228.58	219.45	227.44	219.45	220.58	
		113-120	227.06	217.14	112.55	215.30	149.98	149.98	0.00								
12	0	2-12	9999.00	104.04	85.45	135.23	82.36	91.10	82.36	86.74	86.74	200.93	134.77	116.77	112.55	247.41	
		13-23	91.10	82.56	104.04	104.04	95.87	99.75	82.36								
		24-29	291.51	121.00	82.56	82.56	82.56	82.56									
12	0	31-41	77.95	77.95	87.18	251.14	251.14	254.12	79.72	9999.00	247.41	87.62	79.72	154.05	154.05	9999.00	
		42-52	99.75	115.45	99.75	91.10	82.36	99.75	79.72	154.05	154.05	9999.00					
		53-59	137.67	104.10	9999.00	112.55	112.55	108.31									
12	0	61-71	79.25	141.79	82.56	121.00	137.67	104.47	174.17	168.58	91.97	139.32	101.04	158.11	101.04	104.04	
		72-82	125.14	86.74	91.10	121.00	138.90	209.45	47.35	158.11	101.04	104.04					
		83-89	254.06	217.14	145.71	9999.00	236.14	166.17	223.63	220.96	220.20	230.85	220.58	220.58	220.58	223.63	
12	0	91-101	145.71	75.40	243.56	227.44	9999.00	224.39	223.63	220.96	220.20	230.85	220.58	220.58	220.58	223.63	
		102-112	224.77	224.39	235.77	236.14	227.06	227.06	220.96	220.58	220.58	223.63	220.58	220.58	220.58	223.63	
		113-120	228.58	228.58	100.61	115.42	149.98	149.98	0.00								
12	8	2-12	9999.00	104.04	91.10	134.55	85.68	92.41	83.68	87.18	86.74	200.54	135.60	116.77	113.82	247.41	
		13-23	91.10	85.24	104.75	104.75	96.74	99.75	83.24								
		24-29	296.74	121.00	82.56	82.56	82.56	83.24									
12	8	31-41	77.95	77.95	87.18	255.74	254.46	254.46	82.36	9999.00	247.41	88.49	80.60	154.05	156.89	9999.00	
		42-52	99.75	121.00	99.75	91.10	82.56	99.75	82.36	154.05	154.05	9999.00					
		53-59	138.49	111.00	113.45	112.55	108.73	112.55									
12	8	61-71	82.56	141.79	92.54	121.42	137.67	105.32	174.17	170.18	93.27	141.79	100.18	158.11	104.04	104.90	
		72-82	125.14	85.74	91.10	121.42	139.32	212.53	51.00	158.11	104.04	104.90					
		83-89	253.57	216.75	145.71	9999.00	236.14	169.38	224.39	223.25	220.58	231.61	220.58	220.58	220.58	224.77	
12	8	91-101	145.84	74.28	243.56	228.20	9999.00	224.77	224.39	223.25	220.58	231.61	220.58	220.58	220.58	224.77	
		102-112	227.44	224.77	235.14	235.14	227.06	227.06	220.96	220.58	220.58	231.61	220.58	220.58	220.58	224.77	
		113-120	253.65	228.96	114.24	114.24	149.98	149.98	0.00								

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 1, SOLAR DN, FACING SOLAR, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TEMPERATURES - FAHRENHEIT

TIME	CHANNLS	104.04	134.77	91.10	83.68	95.44	87.62	83.66	87.18	86.74	201.70
12 10	2- 12	999.00	104.47	134.77	91.10	83.68	95.44	87.62	83.66	87.18	201.70
	13- 23	91.10	83.68	104.47	134.77	91.10	83.68	95.44	135.18	116.77	113.82
	24- 29	291.14	121.00	82.80	82.80	82.80	82.80	82.80	82.80	82.80	82.80
12 10	31- 41	75.33	77.95	87.62	87.62	253.74	254.49	117.61	82.36	999.00	88.49
	42- 52	154.04	121.00	99.75	82.80	100.18	100.18	100.18	82.36	156.49	9999.00
	53- 59	141.79	112.55	113.82	112.55	109.58	109.58	112.97	176.16	176.18	137.67
12 10	51- 71	82.80	142.20	83.68	95.44	138.49	138.49	105.75	51.00	158.11	104.47
	72- 82	121.84	84.12	91.10	121.84	138.90	138.90	213.50	224.77	223.63	231.61
	83- 89	249.65	121.84	217.14	149.98	236.14	236.14	168.98	220.96	220.96	224.01
12 10	91-101	143.43	99.75	243.56	243.56	999.00	999.00	224.77	220.96	228.58	224.01
	102-112	227.06	228.58	235.14	235.14	227.44	227.44	220.96	0.00	228.58	224.01
	113-120	230.85	220.20	104.04	114.56	215.60	149.98	149.98	83.68	87.62	197.81
12 12	2- 12	999.00	104.47	134.77	91.10	84.12	95.44	88.05	134.36	116.77	247.41
	13- 23	91.10	83.68	104.47	134.77	91.10	83.68	95.44	82.36	999.00	88.49
	24- 29	291.14	121.00	82.80	82.80	82.80	82.80	82.80	82.36	156.89	158.11
12 12	31- 41	75.33	77.95	87.62	87.62	253.74	254.49	117.61	82.36	999.00	88.49
	42- 52	104.04	121.00	100.18	91.10	100.61	100.61	100.61	82.36	156.89	9999.00
	53- 59	141.79	112.55	113.82	113.82	110.01	113.40	113.40	176.56	170.18	141.79
12 12	51- 71	82.80	142.51	83.68	95.44	138.90	138.90	212.53	51.00	157.70	101.04
	72- 82	125.19	85.74	91.10	122.26	138.90	138.90	212.53	224.77	224.01	220.96
	83- 89	246.65	121.42	147.12	999.00	236.14	236.14	169.58	220.96	228.58	224.77
12 12	91-101	143.02	80.16	243.56	243.56	999.00	999.00	224.77	220.96	228.58	224.77
	102-112	227.44	228.58	235.14	235.14	227.82	227.82	220.96	0.00	228.58	224.77
	113-120	231.61	220.20	104.04	115.77	216.37	149.98	149.98	83.68	88.05	200.15
12 14	2- 12	999.00	104.47	134.77	91.10	84.12	95.44	88.05	133.94	116.77	247.41
	13- 23	91.10	83.68	104.47	134.77	91.10	83.68	95.44	82.36	999.00	88.49
	24- 29	291.14	121.00	82.80	82.80	82.80	82.80	82.80	82.36	157.50	158.11
12 14	31- 41	74.41	77.95	87.62	87.62	253.74	254.49	117.19	82.36	999.00	88.49
	42- 52	104.04	121.00	100.61	91.10	101.04	101.04	101.04	82.36	157.50	9999.00
	53- 59	145.89	115.77	112.55	113.82	113.40	113.40	116.77	177.75	172.57	95.44
12 14	51- 71	82.80	143.02	95.44	130.20	141.79	141.79	108.31	48.25	156.08	100.18
	72- 82	130.21	85.74	91.10	129.37	138.49	138.49	213.50	224.77	224.01	220.96
	83- 89	226.54	121.42	150.49	999.00	236.14	236.14	168.98	224.77	228.58	224.77
12 14	91-101	142.20	77.95	247.41	247.41	999.00	999.00	220.96	220.96	228.58	224.77
	102-112	227.44	228.58	235.14	235.14	227.82	227.82	220.96	0.00	228.58	224.77
	113-120	231.25	220.96	104.04	119.45	215.50	149.98	149.98	84.12	88.05	200.15
12 15	2- 12	999.00	104.47	134.77	91.10	84.12	95.44	88.05	133.53	114.24	239.91
	13- 23	91.10	83.68	104.47	134.77	91.10	83.68	95.44	82.36	999.00	88.49
	24- 29	284.25	117.51	82.80	82.80	82.80	82.80	82.80	82.36	158.11	158.11
12 15	31- 41	74.41	72.50	88.05	87.62	253.74	254.49	116.77	82.36	999.00	88.49
	42- 52	104.04	121.00	101.04	91.10	101.47	101.47	101.47	82.36	158.11	9999.00
	53- 59	146.71	121.00	117.61	121.00	117.19	117.19	122.26	178.15	173.77	95.44
12 15	51- 71	82.80	143.43	85.44	95.44	145.89	145.89	108.31	48.25	154.05	101.04
	72- 82	133.55	87.62	91.10	130.62	141.79	141.79	212.14	224.77	224.39	223.63
	83- 89	217.14	999.00	217.14	999.00	236.14	236.14	166.17	224.77	228.58	224.77
12 15	91-101	141.79	77.95	245.28	245.28	999.00	999.00	220.96	220.96	228.58	224.77
	102-112	227.44	228.58	235.14	235.14	227.44	227.44	220.96	0.00	228.58	224.77
	113-120	231.61	220.20	104.04	122.26	212.14	149.98	149.98	84.12	88.05	200.15

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT
12 17	2- 12	9999.00 102.75 137.67 91.10 86.74 95.44 86.05 86.74 88.05 87.62 197.81
	13- 23	91.11 86.74 108.31 109.31 99.75 101.47 133.53 133.53 113.40 112.55 235.01
	24- 29	267.80 115.77 83.69 83.24 82.80 84.56 82.36 82.36 9999.00 247.41 91.10
12 17	31- 41	74.41 74.36 88.05 88.15 254.12 254.86 116.77 116.77 158.11 158.11 9999.00
	42- 52	104.04 121.42 101.47 92.41 85.68 104.04 104.04 104.04 158.11 158.11 9999.00
	53- 59	150.39 122.58 125.19 122.26 129.37 122.26 129.37 122.26 158.11 158.11 9999.00
12 17	61- 71	82.35 143.84 86.74 93.44 137.67 147.94 108.73 108.73 174.17 174.17 162.15
	72- 82	131.05 83.05 92.41 95.44 133.53 142.61 209.45 209.45 154.05 154.05 101.04
	83- 89	212.91 9999.00 213.30 145.89 9999.00 235.39 165.37 165.37 224.39 224.39 231.23
12 17	91-101	141.79 77.95 96.30 243.56 224.77 9999.00 224.77 224.77 227.82 227.82 220.96
	102-112	227.44 224.77 228.58 235.39 224.77 224.77 219.81 219.81 227.82 227.82 220.96
	113-120	229.71 217.43 104.04 125.39 208.67 149.98 149.98 149.98 227.82 227.82 220.96
12 19	2- 12	9999.00 103.31 137.67 91.10 86.74 95.44 88.93 86.74 88.93 88.49 196.64
	13- 23	91.97 86.74 108.73 109.31 99.75 104.04 133.53 133.53 112.55 112.55 228.58
	24- 29	258.57 115.77 84.12 83.48 82.80 86.74 82.36 82.36 9999.00 247.41 91.10
12 19	31- 41	73.97 73.30 88.49 89.75 253.74 254.86 116.77 116.77 158.11 160.94 9999.00
	42- 52	104.47 121.94 104.04 95.44 85.68 104.04 104.04 104.04 158.11 160.94 9999.00
	53- 59	153.24 127.19 129.37 125.19 133.53 125.61 133.53 133.53 158.11 160.94 9999.00
12 19	61- 71	82.35 142.89 86.74 95.44 137.67 149.57 109.58 109.58 174.17 174.17 161.74
	72- 82	133.20 84.49 92.84 93.44 133.94 145.89 209.45 209.45 154.05 154.05 100.61
	83- 89	211.75 119.29 213.30 145.89 9999.00 235.01 162.15 162.15 224.01 224.01 230.85
12 19	91-101	141.79 74.36 95.44 242.16 224.77 9999.00 224.77 224.77 228.20 228.20 220.96
	102-112	227.05 224.77 228.58 235.39 224.77 224.77 219.81 219.81 228.20 228.20 220.96
	113-120	228.58 217.14 104.47 125.39 208.67 149.98 149.98 149.98 228.20 228.20 220.96
12 20	2- 12	9999.00 103.31 137.67 91.10 86.74 95.44 88.93 86.74 88.93 88.49 196.64
	13- 23	91.97 86.74 109.15 109.31 99.75 104.04 131.45 133.53 112.55 109.58 227.44
	24- 29	254.49 115.77 84.56 83.48 82.80 86.74 82.36 82.36 9999.00 247.41 91.10
12 20	31- 41	73.97 73.30 88.49 89.47 253.37 254.12 113.82 113.82 158.11 161.74 9999.00
	42- 52	104.91 121.84 104.04 92.41 84.12 104.04 104.04 104.04 158.11 161.74 9999.00
	53- 59	154.05 129.37 133.53 125.39 9999.00 129.37 137.67 137.67 158.11 161.74 9999.00
12 20	61- 71	82.35 142.89 86.74 95.44 138.08 149.57 110.01 110.01 176.56 176.56 162.15
	72- 82	129.37 91.10 92.84 93.44 133.18 145.89 208.67 208.67 152.83 152.83 100.18
	83- 89	209.45 117.19 209.45 143.02 9999.00 234.63 161.74 161.74 223.63 223.63 228.58
12 20	91-101	138.91 74.41 95.44 239.41 224.01 9999.00 224.77 224.77 227.06 227.06 220.96
	102-112	224.77 224.77 228.20 235.39 224.77 224.77 219.43 219.43 227.06 227.06 220.96
	113-120	224.54 217.14 104.90 129.37 205.58 149.98 149.98 149.98 227.06 227.06 220.96

APO-13 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-C (1-27-65)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERM. DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT																
		1	2	3	4	5	6	7	8	9	10	11	12					
8 55	B01-B11	9999.00	9999.00	73.00	9999.00	9999.00	69.00	68.00	70.00	70.00	70.00	68.00	70.00	70.00	70.00	68.00	70.00	70.00
	B12-B22	70.00	70.00	70.00	69.00	69.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	71.00	71.00	70.00
	B23-B24	66.00	-0.00															70.00
9 0	B01-B11	9999.00	9999.00	73.00	9999.00	9999.00	69.00	68.00	70.00	70.00	70.00	68.00	70.00	70.00	69.00	68.00	71.00	70.00
	B12-B22	70.00	70.00	70.00	69.00	68.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	71.00	71.00	70.00	70.00
	B23-B24	72.00	-0.00															70.00
9 10	B01-B11	9999.00	9999.00	74.00	9999.00	9999.00	68.00	68.00	69.00	69.00	69.00	68.00	69.00	69.00	69.00	67.00	70.00	71.00
	B12-B22	69.00	70.00	70.00	68.00	68.00	69.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	69.00
	B23-B24	97.00	-0.00															69.00
9 20	B01-B11	9999.00	9999.00	74.00	9999.00	9999.00	68.00	68.00	69.00	69.00	69.00	68.00	69.00	69.00	69.00	68.00	70.00	71.00
	B12-B22	70.00	70.00	70.00	68.00	68.00	69.00	70.00	70.00	70.00	69.00	70.00	69.00	69.00	70.00	70.00	70.00	70.00
	B23-B24	95.00	-0.00															70.00
9 30	B01-B11	9999.00	9999.00	75.00	9999.00	9999.00	68.00	68.00	69.00	69.00	69.00	68.00	69.00	69.00	69.00	68.00	70.00	72.00
	B12-B22	71.00	71.00	70.00	68.00	69.00	69.00	70.00	70.00	70.00	68.00	70.00	69.00	69.00	71.00	71.00	71.00	70.00
	B23-B24	97.00	-0.00															70.00
9 40	B01-B11	9999.00	9999.00	75.00	9999.00	9999.00	70.00	70.00	70.00	70.00	72.00	70.00	70.00	70.00	70.00	73.00	73.00	73.00
	B12-B22	73.00	73.00	72.00	70.00	71.00	70.00	70.00	70.00	70.00	72.00	70.00	70.00	70.00	72.00	72.00	72.00	72.00
	B23-B24	100.00	-0.00															72.00
9 50	B01-B11	9999.00	9999.00	75.00	9999.00	9999.00	71.00	72.00	72.00	72.00	73.00	71.00	71.00	71.00	71.00	74.00	73.00	74.00
	B12-B22	74.00	74.00	74.00	71.00	72.00	70.00	72.00	72.00	73.00	71.00	71.00	71.00	71.00	73.00	73.00	73.00	74.00
	B23-B24	103.00	-0.00															74.00
10 0	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	72.00	73.00	73.00	74.00	74.00	71.00	71.00	72.00	73.00	75.00	75.00	76.00
	B12-B22	76.00	75.00	75.00	72.00	74.00	71.00	71.00	72.00	72.00	74.00	71.00	71.00	72.00	74.00	74.00	74.00	75.00
	B23-B24	106.00	-0.00															75.00
10 10	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	73.00	74.00	74.00	75.00	75.00	72.00	72.00	73.00	74.00	77.00	76.00	76.00
	B12-B22	78.00	77.00	77.00	73.00	75.00	72.00	72.00	72.00	72.00	74.00	72.00	72.00	72.00	75.00	75.00	75.00	77.00
	B23-B24	109.00	-0.00															77.00
10 20	B01-B11	9999.00	9999.00	76.00	9999.00	9999.00	74.00	75.00	75.00	76.00	76.00	73.00	73.00	74.00	75.00	79.00	78.00	78.00
	B12-B22	80.00	77.00	79.00	74.00	77.00	73.00	73.00	74.00	74.00	76.00	73.00	73.00	74.00	76.00	76.00	76.00	79.00
	B23-B24	112.00	-0.00															79.00
10 30	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	76.00	77.00	77.00	78.00	78.00	74.00	74.00	75.00	77.00	81.00	81.00	79.00
	B12-B22	83.00	79.00	81.00	75.00	78.00	75.00	75.00	75.00	75.00	76.00	74.00	74.00	75.00	77.00	77.00	78.00	82.00
	B23-B24	115.00	-0.00															82.00
10 40	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	77.00	78.00	78.00	79.00	79.00	75.00	75.00	76.00	79.00	82.00	80.00	80.00
	B12-B22	84.00	80.00	83.00	76.00	81.00	76.00	75.00	76.00	76.00	76.00	75.00	75.00	76.00	79.00	79.00	79.00	83.00
	B23-B24	117.00	-0.00															83.00
10 50	B01-B11	9999.00	9999.00	77.00	9999.00	9999.00	79.00	80.00	80.00	82.00	82.00	76.00	76.00	77.00	80.00	84.00	84.00	81.00
	B12-B22	86.00	81.00	85.00	78.00	81.00	77.00	76.00	76.00	76.00	76.00	76.00	76.00	76.00	79.00	80.00	80.00	85.00
	B23-B24	119.00	-0.00															85.00

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 1, SOLAR ON, FACING SOLAR, LUNAR ON,
 THERMA. DUMMY HEATERS OFF, RELIEF VALVE CLOSED, NO TEARS

TIME	C-CHANNELS	TEMPERATURES - FARENHEIT												
		9999.07	9999.00	78.00	9999.00	9999.00	60.00	81.00	83.00	81.00	85.00	81.00	82.00	82.00
11 0	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	60.00	81.00	83.00	81.00	85.00	81.00	82.00	82.00
	B12-B22	88.00	82.00	87.00	79.00	83.00	78.00	78.00	78.00	78.00	81.00	81.00	81.00	85.00
	B23-B24	121.00	-0.00											
11 10	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	82.00	82.00	85.00	82.00	87.00	82.00	82.00	84.00
	B12-B22	90.00	83.00	89.00	81.00	85.00	80.00	78.00	79.00	78.00	82.00	82.00	82.00	89.00
	B23-B24	123.00	-0.00											
11 20	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	83.00	83.00	87.00	83.00	88.00	85.00	86.00	85.00
	B12-B22	91.00	85.00	91.00	83.00	86.00	81.00	79.00	80.00	79.00	83.00	83.00	83.00	91.00
	B23-B24	125.00	-0.00											
11 30	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	83.00	85.00	88.00	85.00	90.00	86.00	84.00	86.00
	B12-B22	93.00	86.00	92.00	84.00	87.00	82.00	81.00	82.00	81.00	84.00	84.00	84.00	92.00
	B23-B24	127.00	-0.00											
11 40	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	85.00	85.00	89.00	85.00	91.00	88.00	85.00	86.00
	B12-B22	95.00	85.00	94.00	84.00	89.00	83.00	82.00	82.00	82.00	85.00	85.00	85.00	94.00
	B23-B24	128.00	-0.00											
11 50	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	86.00	87.00	91.00	87.00	92.00	89.00	86.00	88.00
	B12-B22	97.00	85.00	96.00	85.00	90.00	85.00	83.00	83.00	83.00	86.00	86.00	86.00	96.00
	B23-B24	130.00	-0.00											
12 0	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	87.00	87.00	92.00	87.00	93.00	90.00	87.00	89.00
	B12-B22	98.00	89.00	97.00	87.00	91.00	86.00	83.00	85.00	83.00	88.00	87.00	88.00	98.00
	B23-B24	132.00	-0.00											
12 10	B11-B11	9999.07	9999.00	78.00	9999.00	9999.00	88.00	89.00	93.00	89.00	94.00	92.00	89.00	90.00
	B12-B22	100.00	90.00	99.00	89.00	92.00	87.00	85.00	86.00	86.00	89.00	88.00	89.00	99.00
	B23-B24	133.00	-0.00											
12 20	B11-B11	9999.07	9999.00	79.00	9999.00	9999.00	89.00	89.00	95.00	89.00	95.00	93.00	90.00	91.00
	B12-B22	102.00	91.00	100.00	90.00	93.00	89.00	85.00	86.00	86.00	90.00	90.00	90.00	100.00
	B23-B24	132.00	-0.00											
12 30	B11-B11	9999.07	9999.00	80.00	9999.00	9999.00	89.00	91.00	97.00	91.00	96.00	95.00	91.00	94.00
	B12-B22	104.00	94.00	103.00	91.00	95.00	90.00	87.00	87.00	87.00	91.00	91.00	91.00	104.00
	B23-B24	132.00	-0.00											

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 2, VERTICAL TANK, SOLAR ON, FACING SOLAR,
 LUNAR ON, THERM- DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT
12 34	2- 12	9999.00 109.73 137.67 95.44 86.74 97.17 91.10 86.74 91.10 189.99
	13- 23	95.44 85.74 112.55 112.55 104.04 108.31 131.03 133.53 108.31 224.77
	24- 29	254.12 112.55 86.74 85.74 84.56 87.62 112.55 83.68 9999.00 246.28
12 34	31- 41	74.41 75.30 91.10 91.10 251.14 253.00 112.55 83.24 162.15 91.10
	42- 52	108.31 125.19 104.90 95.44 86.74 105.75 108.31 108.31 165.77 9999.00
	53- 59	164.55 135.18 141.79 133.53 9999.00 135.18 146.71 182.11 178.15 95.44
12 34	51- 71	86.74 142.39 87.62 95.44 143.43 149.57 112.55 46.42 149.57 95.44
	72- 82	126.65 91.10 95.44 95.74 141.79 146.30 205.58 224.01 220.96 228.58
	83- 89	209.45 112.09 208.67 143.43 9999.00 232.37 156.49 216.75 226.68 220.58
12 34	91-101	137.67 73.52 91.54 232.37 224.39 9999.00 224.77 224.01 220.96 228.58
	102-112	224.77 224.01 227.82 234.63 234.63 224.39 217.14 216.75 226.68 217.14
	113-120	228.58 215.75 108.31 133.53 209.45 9999.00 9999.00 9999.00 9999.00 9999.00
12 36	2- 12	9999.00 109.16 137.67 95.44 86.74 97.17 91.10 86.74 91.54 192.73
	13- 23	95.44 87.18 112.97 112.55 104.04 108.31 131.45 133.53 108.31 224.77
	24- 29	265.22 112.55 86.74 85.74 80.74 87.62 112.55 84.12 9999.00 246.28
12 36	31- 41	74.65 77.95 91.10 91.10 251.14 251.14 112.55 83.68 162.15 91.54
	42- 52	108.31 123.52 105.32 95.44 86.74 108.31 108.31 108.31 166.17 9999.00
	53- 59	162.15 133.53 137.67 134.36 9999.00 135.18 143.43 182.11 178.15 95.44
12 36	51- 71	86.74 142.39 87.62 97.17 142.61 149.57 112.97 46.42 149.57 95.44
	72- 82	126.65 91.10 95.44 95.74 141.79 145.89 205.58 224.39 223.25 228.58
	83- 89	228.58 112.09 212.53 143.49 9999.00 232.37 156.49 219.43 227.44 219.81
12 36	91-101	137.67 73.52 91.54 243.29 224.77 9999.00 224.77 224.39 227.44 219.81
	102-112	227.05 224.39 228.27 235.71 235.71 224.77 217.14 219.43 227.44 219.81
	113-120	228.58 217.14 108.31 137.67 209.45 9999.00 9999.00 9999.00 9999.00 9999.00
12 38	2- 12	9999.00 109.16 136.08 95.44 87.18 97.60 91.10 86.74 91.54 193.52
	13- 23	95.44 87.62 113.40 112.55 104.04 108.31 131.86 133.53 108.31 227.82
	24- 29	264.85 112.55 86.74 85.74 84.56 88.05 112.55 84.12 9999.00 246.28
12 38	31- 41	75.59 77.95 91.10 91.10 250.76 251.14 112.55 83.68 164.56 91.97
	42- 52	108.31 125.19 105.32 95.44 86.74 108.31 108.31 108.31 166.17 9999.00
	53- 59	162.15 133.53 135.19 135.18 9999.00 136.01 141.79 182.11 178.15 95.44
12 38	51- 71	86.74 142.39 88.05 97.17 143.02 149.57 113.40 46.42 149.57 95.87
	72- 82	126.65 91.10 95.44 95.74 141.79 145.89 205.58 224.39 223.25 228.58
	83- 89	228.58 112.09 212.14 143.49 9999.00 232.37 156.89 217.14 219.43 220.58
12 38	91-101	137.67 73.52 91.54 242.31 224.77 9999.00 224.77 224.39 223.25 228.58
	102-112	227.05 224.39 228.29 234.63 234.63 224.77 217.14 217.14 219.43 220.58
	113-120	228.58 217.14 108.31 137.67 209.45 9999.00 9999.00 9999.00 9999.00 9999.00
12 40	2- 12	9999.00 109.58 138.49 95.44 87.18 99.75 91.10 87.18 91.97 193.52
	13- 23	95.44 88.05 113.82 112.55 104.04 108.31 133.53 133.53 108.31 227.82
	24- 29	264.82 112.55 87.18 85.74 86.74 88.05 112.55 84.56 9999.00 245.91
12 40	31- 41	77.95 77.95 91.10 91.10 251.14 251.14 112.55 84.12 164.96 91.97
	42- 52	108.73 125.19 105.75 95.87 86.74 108.31 108.31 108.31 166.17 9999.00
	53- 59	162.15 133.53 133.94 137.67 9999.00 136.84 139.32 181.71 178.15 95.87
12 40	51- 71	86.74 145.89 88.05 97.17 143.84 149.57 113.82 46.42 149.57 96.30
	72- 82	126.65 91.54 95.44 97.17 142.61 145.89 208.29 224.39 223.63 228.58
	83- 89	228.58 115.09 212.91 145.89 9999.00 232.37 157.30 219.43 227.82 220.96
12 40	91-101	137.67 73.52 91.97 243.66 224.77 9999.00 224.77 224.39 223.63 228.58
	102-112	227.44 224.39 228.58 235.01 235.01 224.77 219.43 219.43 227.82 220.96
	113-120	228.58 217.14 108.31 137.67 209.45 9999.00 9999.00 9999.00 9999.00 9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES

VAS 9-3414, EXP. II-2 (1-27-65)

TEST POINT NO. 2, VERTICAL TANK, SOLAR ON, RACING SOLAR,
LUNAR DN, THERMA- DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME CHANNELS

TEMPERATURES - FAHRENHEIT

12	42	9999.00	109.58	138.09	95.44	87.62	99.75	91.10	87.18	92.41	91.10	193.91
		95.44	89.49	114.24	112.97	104.47	108.31	133.53	133.53	109.16	108.31	228.58
12	42	264.43	112.95	87.62	85.74	86.74	88.49					
		77.95	91.10	91.10	250.76	251.14	251.14	112.55	84.56	9999.00	245.91	92.41
		108.73	122.14	108.51	95.70	86.74	108.31	108.73	84.12	164.56	166.17	9999.00
		162.15	133.53	133.53	137.67	9999.00	137.25	138.49				
12	42	86.74	142.89	88.49	99.75	145.89	149.57	113.82	182.11	180.52	95.87	170.18
		126.85	91.54	95.44	97.17	145.43	145.89	207.90	46.42	149.57	96.74	99.75
		228.58	114.24	212.53	145.89	9999.00	232.37	157.70				
12	42	137.67	73.92	92.84	243.99	224.77	9999.00	224.77	224.77	223.63	220.96	230.85
		227.44	224.77	228.58	235.19	236.14	224.77	219.81	219.43	228.20	219.81	223.25
		228.53	217.14	108.73	138.90	211.76	9999.00	9999.00	9999.00			
12	44	9999.00	110.01	138.49	95.44	87.62	99.75	91.10	87.62	91.97	91.10	193.91
		95.44	89.49	114.66	113.40	104.90	108.73	133.53	133.53	110.01	108.31	228.58
12	44	265.22	112.55	87.62	85.74	86.74	88.49					
		77.95	91.54	91.10	251.14	251.14	251.14	112.55	86.74	9999.00	245.91	92.41
		109.15	125.19	108.51	95.70	86.74	108.31	109.16	84.56	165.77	166.17	9999.00
		162.15	133.53	133.53	137.67	9999.00	137.67	137.67				
12	44	86.74	145.89	88.49	99.75	145.89	149.57	114.24	182.11	180.92	96.30	170.18
		129.37	91.97	95.44	97.60	145.84	145.89	208.67	46.88	149.57	97.17	99.75
		228.58	114.24	213.30	145.89	9999.00	232.37	158.11				
12	44	137.67	73.92	93.27	243.56	227.06	9999.00	224.77	224.77	224.01	223.25	230.85
		227.62	224.77	228.58	235.77	235.77	224.77	219.81	220.58	228.20	219.81	223.25
		230.85	217.14	108.73	138.90	211.76	9999.00	9999.00	9999.00			
12	46	9999.00	112.55	138.49	95.44	88.05	99.75	91.54	88.05	93.27	91.10	193.91
		95.44	91.10	115.09	113.92	105.32	109.16	133.53	133.94	110.01	108.31	228.58
12	46	264.43	112.97	88.05	85.74	86.74	88.93					
		77.95	91.97	91.54	250.76	251.14	251.14	112.55	86.74	9999.00	245.91	92.41
		109.53	125.19	108.51	95.74	86.74	108.31	109.58	84.56	165.77	168.98	9999.00
		162.15	133.53	133.53	138.49	9999.00	137.67	137.67				
12	46	86.74	142.89	88.93	99.75	145.89	152.43	116.77	182.11	181.32	96.30	170.18
		129.37	91.97	9999.00	99.75	145.89	145.89	208.29	46.88	149.57	96.30	99.75
		228.58	112.09	213.30	145.89	9999.00	232.37	157.70				
12	46	137.67	73.92	92.41	243.56	224.77	9999.00	224.77	224.77	224.01	223.25	231.23
		228.27	224.77	228.58	235.14	236.14	224.77	220.20	219.81	228.20	220.96	220.96
		230.85	219.43	109.15	141.79	211.76	9999.00	9999.00	9999.00			
12	48	9999.00	112.55	138.49	95.44	88.05	99.75	91.54	88.05	95.44	91.54	193.91
		95.67	91.10	116.77	114.24	105.75	109.58	133.53	133.94	109.16	108.31	228.20
12	48	262.27	112.55	88.05	87.18	86.74	91.10					
		77.95	78.84	91.97	91.97	251.14	251.14	112.55	86.74	9999.00	243.66	92.84
		109.53	125.19	108.51	95.74	86.74	108.31	110.01	86.74	166.17	169.38	9999.00
		162.15	133.53	133.53	138.49	9999.00	138.90	137.67				
12	48	86.74	142.89	91.10	99.75	145.89	152.43	116.77	184.48	181.71	96.74	172.57
		129.37	92.41	95.44	99.75	145.89	145.89	208.29	46.88	149.57	96.30	99.75
		228.58	112.09	213.30	145.89	9999.00	232.37	158.11				
12	48	137.67	73.92	92.41	243.56	224.77	9999.00	224.77	224.77	224.39	223.63	230.85
		227.62	224.77	228.58	235.39	236.14	224.77	219.43	219.43	228.20	220.20	220.96
		230.85	219.05	109.53	141.79	211.37	9999.00	9999.00	9999.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-2 (1-27-59)
 TEST POINT NO. 2, VERTICAL LEAD, SOLAR ON, FACING SOLAR,
 LUNAR JET, THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT
12 50	2- 12	9999.07 112.25 138.90 95.44 86.05 99.75 91.97 86.05 95.44 91.54 193.91
	13- 23	96.57 91.10 116.77 115.77 108.31 110.01 133.53 134.36 109.16 108.31 228.58
12 50	24- 29	262.27 112.25 86.49 87.16 86.74 91.10 86.74 86.74 9999.00 243.66 93.27
	31- 41	77.95 73.84 92.41 92.41 250.76 251.14 112.55 86.74 166.17 169.78 9999.00
12 50	42- 52	110.01 122.19 108.31 97.17 87.18 108.31 112.55 86.74 166.17 169.78 9999.00
	53- 59	162.15 133.23 135.53 139.73 9999.00 139.32 116.77 184.48 181.32 223.63 230.85
12 50	61- 71	86.74 142.89 91.10 99.75 145.89 145.89 116.77 46.88 149.57 96.30 99.75
	72- 82	129.57 92.41 95.44 99.75 9999.00 232.37 157.70 224.77 224.39 223.63 230.85
12 50	83- 89	228.58 115.09 212.91 145.89 9999.00 232.37 157.70 224.77 224.39 223.63 230.85
	91-101	137.67 73.52 91.97 243.56 224.77 9999.00 224.77 224.77 224.77 224.77 223.25
12 50	102-112	228.27 224.77 228.58 235.77 235.77 224.77 219.43 220.20 228.20 219.81 223.25
	113-120	230.85 219.05 109.58 141.79 211.76 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
12 52	2- 12	9999.00 112.25 138.90 95.44 86.49 99.75 91.97 86.49 95.44 91.97 193.91
	13- 23	96.57 91.10 116.77 115.77 108.31 110.43 133.53 134.36 109.58 108.31 228.58
12 52	24- 29	262.27 112.25 86.49 87.52 86.74 91.10 86.74 86.74 9999.00 243.66 95.44
	31- 41	77.95 75.84 92.41 92.41 250.76 251.14 112.55 86.74 166.17 170.18 9999.00
12 52	42- 52	110.43 125.19 108.31 97.58 87.18 108.73 110.43 86.74 166.17 170.18 9999.00
	53- 59	162.15 133.23 135.53 141.79 9999.00 139.73 137.67 184.87 182.11 96.74 173.77
12 52	61- 71	86.74 145.89 91.10 99.75 146.71 153.24 116.77 46.88 149.57 96.74 99.75
	72- 82	129.57 92.84 95.44 99.75 145.89 145.89 207.90 224.77 224.39 223.63 230.85
12 52	83- 89	228.58 114.24 212.91 145.89 9999.00 232.37 158.11 224.77 224.39 223.63 230.85
	91-101	137.67 73.52 92.41 243.56 224.77 9999.00 224.77 219.81 228.20 220.58 220.96
12 52	102-112	228.27 224.77 228.58 235.77 235.77 224.77 220.20 219.81 228.20 220.58 220.96
	113-120	230.85 219.05 110.01 141.79 211.76 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
12 54	2- 12	9999.07 112.25 138.90 95.44 86.49 99.75 92.41 88.49 95.44 92.41 193.91
	13- 23	96.74 91.10 116.77 115.77 108.31 110.86 133.53 133.94 109.58 108.31 228.58
12 54	24- 29	261.90 112.25 91.10 87.52 86.74 91.10 86.74 86.74 9999.00 243.66 95.44
	31- 41	77.95 75.40 92.84 92.61 250.39 251.14 112.55 86.74 166.17 170.18 9999.00
12 54	42- 52	112.25 122.19 108.31 99.75 87.62 109.16 112.55 86.74 166.17 170.18 9999.00
	53- 59	162.15 133.23 135.53 141.79 9999.00 140.14 137.67 184.87 182.11 96.74 174.17
12 54	61- 71	86.74 145.89 91.10 99.75 146.71 153.24 116.77 46.88 149.57 95.87 99.75
	72- 82	129.57 92.84 95.44 99.75 145.89 145.89 207.90 224.77 224.39 223.63 230.85
12 54	83- 89	228.58 113.52 212.91 145.89 9999.00 232.37 158.11 224.77 224.39 223.63 230.85
	91-101	137.67 73.52 92.41 243.56 224.77 9999.00 224.77 219.81 228.20 220.58 223.25
12 54	102-112	228.27 224.77 228.58 235.77 235.77 224.77 219.81 219.81 228.20 220.58 223.25
	113-120	230.85 217.14 110.01 142.23 211.76 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
13 0	2- 12	9999.07 112.25 139.32 95.44 86.93 99.75 92.84 91.10 95.44 92.41 193.91
	13- 23	96.74 91.10 117.19 115.77 108.31 112.55 133.53 134.77 109.58 108.31 228.58
13 0	24- 29	262.27 112.25 91.10 89.75 86.74 91.10 86.74 86.74 9999.00 243.66 95.44
	31- 41	77.95 77.25 92.84 92.84 250.39 250.76 112.55 86.74 166.17 170.18 9999.00
13 0	42- 52	112.25 125.19 108.31 99.75 87.62 109.16 112.55 86.74 166.17 170.18 9999.00
	53- 59	162.15 133.23 135.53 141.79 9999.00 141.79 137.67 184.87 182.11 97.17 174.17
13 0	61- 71	86.74 145.89 91.10 99.75 147.12 153.65 116.77 47.33 149.57 99.75 99.75
	72- 82	129.57 93.27 95.44 99.75 146.71 145.89 208.67 224.77 224.39 223.63 230.85
13 0	83- 89	230.85 115.77 215.30 145.89 9999.00 232.37 158.11 224.77 224.39 223.63 230.85
	91-101	137.67 73.52 93.27 243.56 227.06 9999.00 224.77 219.81 228.20 220.58 223.63
13 0	102-112	228.27 224.77 228.58 235.77 235.77 224.77 220.58 219.81 228.20 220.58 223.63
	113-120	231.23 219.43 112.55 142.51 212.53 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00

A30-L) EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 2, VERTICAL TANK, SOLAR ON, FACING SOLAR,
 LUNAR ON, THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TEMPERATURES - FAHRENHEIT

TIME CHANNELS

13	10	2- 12	9999.00	112.97	141.79	99.75	91.10	101.47	95.44	91.10	96.74	95.44	192.34
		13- 23	99.75	92.41	121.00	121.70	112.55	116.77	135.18	137.67	108.31	105.32	228.58
		24- 29	261.55	112.55	91.10	91.10	88.05	91.54					
		31- 41	77.95	77.95	95.44	95.44	249.65	251.14	112.55	87.62	9999.00	243.66	95.44
		42- 52	112.55	125.03	110.01	99.75	88.93	112.55	113.82	87.18	170.18	174.17	9999.00
		53- 59	165.37	152.18	133.53	145.89	9999.00	143.02	138.90				
		61- 71	87.15	145.30	91.54	99.75	149.57	154.05	117.61	186.06	184.87	99.32	176.95
		72- 82	130.23	92.44	95.87	99.75	149.57	147.12	205.58	46.42	147.53	95.44	97.17
		83- 89	228.58	113.82	211.75	145.89	9999.00	231.99	157.30				
		91-101	137.67	73.52	91.10	243.29	224.77	9999.00	227.06	224.77	224.77	224.39	231.23
		102-112	228.58	224.77	228.58	235.14	236.14	224.77	219.43	219.43	228.58	219.81	223.25
		113-120	231.23	217.05	112.55	145.89	209.45	9999.00	9999.00	9999.00			
		2- 12	9999.00	113.82	141.79	99.75	91.10	104.04	95.44	91.10	99.75	95.44	193.12
		13- 23	100.13	92.44	122.68	121.84	112.97	117.61	137.67	138.90	109.16	108.31	228.58
		24- 29	261.55	112.55	91.54	91.10	91.10	92.41					
		31- 41	77.95	77.95	95.44	95.44	249.27	250.39	112.55	88.49	9999.00	243.66	96.30
		42- 52	113.82	127.28	112.55	100.15	91.10	112.55	116.77	88.49	170.18	174.17	9999.00
		53- 59	166.17	137.57	135.18	145.89	9999.00	145.89	141.79				
		61- 71	88.05	145.71	92.41	100.51	153.24	156.89	121.00	186.06	186.06	99.75	178.15
		72- 82	133.53	92.44	96.74	100.51	149.57	149.57	205.58	46.88	149.57	96.30	99.75
		83- 89	228.58	113.82	212.53	145.89	9999.00	231.99	158.11				
		91-101	137.67	73.52	91.97	243.29	224.77	9999.00	227.44	226.68	224.77	224.77	231.23
		102-112	228.58	224.77	228.58	235.59	235.77	224.77	219.43	220.20	228.20	219.81	220.96
		113-120	231.23	217.05	113.40	147.12	209.45	9999.00	9999.00	9999.00			
		2- 12	9999.00	114.56	141.79	100.18	91.97	104.04	96.30	91.97	99.75	96.30	193.12
		13- 23	101.04	95.44	125.19	125.19	116.77	121.00	137.67	141.79	108.31	105.75	228.58
		24- 29	262.27	112.55	92.41	91.54	91.10	95.44					
		31- 41	77.95	77.95	95.44	95.44	247.41	249.65	112.55	91.10	9999.00	243.66	97.60
		42- 52	116.77	129.37	112.55	100.51	91.10	113.82	116.77	91.10	172.57	177.35	9999.00
		53- 59	168.58	137.57	137.67	147.53	9999.00	146.30	142.20				
		61- 71	88.49	147.12	93.27	101.74	154.05	157.70	121.00	186.06	186.06	99.75	181.32
		72- 82	133.53	96.30	99.75	101.04	153.24	149.57	205.58	46.42	147.53	95.44	99.75
		83- 89	228.58	113.82	212.14	145.89	9999.00	231.61	157.30				
		91-101	135.63	73.52	91.54	243.29	224.39	9999.00	227.44	226.68	224.77	224.77	231.61
		102-112	228.58	224.77	228.58	235.77	235.77	224.77	219.43	220.20	228.20	219.81	220.96
		113-120	231.23	217.14	114.66	149.57	209.45	9999.00	9999.00	9999.00			
		2- 12	9999.00	116.77	141.79	100.51	92.84	104.47	96.74	92.41	100.18	96.74	192.73
		13- 23	101.90	95.87	125.61	125.19	116.77	121.00	138.08	141.79	108.31	105.75	228.58
		24- 29	262.27	112.55	95.44	91.37	91.10	95.44					
		31- 41	77.95	78.84	95.87	95.87	247.41	250.02	112.55	91.10	9999.00	243.66	99.75
		42- 52	116.77	129.37	112.55	100.51	91.54	114.66	117.19	91.10	173.57	178.15	9999.00
		53- 59	169.58	138.49	137.67	149.57	9999.00	147.12	143.02				
		61- 71	91.10	147.53	95.44	101.47	154.05	158.11	121.00	188.42	186.06	100.18	182.11
		72- 82	133.94	96.74	99.75	101.47	154.05	149.57	205.58	46.42	149.57	95.44	99.75
		83- 89	228.58	113.82	212.14	145.89	9999.00	231.61	157.70				
		91-101	137.67	73.52	91.54	243.29	224.77	9999.00	227.44	227.44	224.77	224.77	231.61
		102-112	228.58	224.77	228.58	235.77	235.77	224.77	219.43	220.20	228.20	219.81	220.96
		113-120	231.61	217.14	116.77	149.57	209.45	9999.00	9999.00	9999.00			

APO-LJ EXTRAVASCULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 2, VERTICAL TEAR, SOLAR ON, FACING SOLAR,
 LUNAR ON, THERMA. DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	C CHANNELS	TEMPERATURES - FAHRENHEIT											
12 30	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	89.00	91.00	97.00	95.00	96.00	94.00	
	B12-B22	104.00	94.00	103.00	91.00	95.00	90.00	87.00	87.00	91.00	91.00	104.00	
	B23-B24	132.00	-0.00										
12 36	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	90.00	91.00	97.00	95.00	97.00	96.00	
	B12-B22	106.00	96.00	104.00	92.00	95.00	90.00	88.00	88.00	92.00	93.00	104.00	
	B23-B24	132.00	-0.00										
12 40	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	91.00	91.00	97.00	96.00	98.00	97.00	
	B12-B22	107.00	97.00	105.00	92.00	96.00	90.00	89.00	89.00	94.00	94.00	106.00	
	B23-B24	133.00	-0.00										
12 50	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	91.00	92.00	100.00	97.00	98.00	98.00	
	B12-B22	110.00	99.00	108.00	93.00	92.00	92.00	90.00	90.00	95.00	96.00	109.00	
	B23-B24	134.00	-0.00										
13 0	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	93.00	93.00	101.00	99.00	100.00	100.00	
	B12-B22	113.00	102.00	110.00	95.00	98.00	93.00	91.00	91.00	96.00	98.00	112.00	
	B23-B24	135.00	-0.00										
13 10	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	94.00	94.00	101.00	100.00	101.00	101.00	
	B12-B22	116.00	104.00	113.00	95.00	100.00	94.00	93.00	93.00	100.00	100.00	115.00	
	B23-B24	137.00	-0.00										
13 20	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	90.00	91.00	102.00	101.00	102.00	103.00	
	B12-B22	119.00	105.00	116.00	98.00	101.00	96.00	93.00	93.00	101.00	101.00	117.00	
	B23-B24	138.00	-0.00										
13 30	B01-B11	9999.00	9999.00	80.00	9999.00	9999.00	91.00	92.00	104.00	102.00	104.00	106.00	
	B12-B22	123.00	103.00	118.00	98.00	102.00	97.00	95.00	95.00	103.00	102.00	120.00	
	B23-B24	139.00	-0.00										
13 40	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	97.00	98.00	105.00	104.00	105.00	107.00	
	B12-B22	125.00	109.00	121.00	100.00	104.00	98.00	96.00	95.00	105.00	104.00	123.00	
	B23-B24	136.00	-0.00										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 4, VERTICAL + V TEARS, SOLAR OFF, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
13	52	9999.00	115.77	142.20	101.04	92.84	104.47	97.17	92.84	100.18	97.17	192.34	
	13-23	104.04	92.87	126.45	125.51	116.77	121.42	138.08	141.79	108.31	105.32	228.58	
	24-29	262.27	112.25	95.44	91.37	88.49	95.44						
13	52	77.95	78.40	95.87	95.50	247.41	250.02	69.07	91.10	9999.00	243.66	99.75	
	41-41	116.77	129.37	112.97	101.47	91.97	116.77	117.61	91.10	173.77	178.15	9999.00	
	42-52	159.78	138.90	137.67	149.57	9999.00	147.12	143.02					
13	52	91.13	147.25	95.44	101.30	154.05	158.11	121.00	188.42	186.06	100.18	182.11	
	71-71	133.94	97.17	99.75	101.30	154.05	152.43	205.58	46.42	101.04	95.44	99.75	
	82-82	228.58	70.41	212.14	143.89	9999.00	231.61	157.30					
13	52	135.61	73.52	91.10	243.56	224.77	9999.00	227.82	227.06	224.77	224.77	231.61	
	91-101	228.58	224.77	228.58	233.77	236.14	224.77	219.81	220.20	228.20	219.81	220.96	
	102-112	231.61	213.57	73.52	149.57	209.45	149.98	149.98	0.00				
	113-120												
13	54	9999.00	117.19	141.79	106.04	95.44	106.18	99.75	95.44	102.76	99.75	186.84	
	12-12	104.04	98.46	130.20	129.37	120.13	123.94	133.11	133.94	108.31	104.90	215.60	
	13-23	260.05	110.83	95.44	94.14	92.84	95.44						
13	54	77.95	78.84	96.74	95.74	244.79	246.66	110.01	91.97	9999.00	239.53	100.18	
	41-41	116.77	127.28	114.66	102.76	91.97	116.77	116.77	91.97	173.37	178.54	9999.00	
	42-52	160.53	131.03	128.12	220.96	9999.00	133.53	133.94					
13	54	89.55	144.25	95.44	102.76	144.25	148.35	118.45	185.27	186.06	101.47	173.77	
	51-71	134.35	98.46	99.75	102.76	144.25	140.55	199.37	44.58	146.71	95.44	97.60	
	82-82	227.44	9999.00	210.22	143.89	9999.00	227.82	148.76					
13	54	134.35	70.85	91.10	233.03	224.39	9999.00	209.45	209.45	208.29	207.51	217.14	
	91-101	211.75	210.60	217.14	227.82	227.06	218.28	210.99	210.99	220.96	211.76	214.45	
	102-112	217.14	211.76	73.52	193.86	212.53	149.98	149.98	0.00				
	113-120												
14	0	9999.00	117.51	140.55	104.34	95.44	106.60	99.75	95.44	104.04	99.75	108.31	
	2-12	104.04	99.75	131.03	130.52	121.00	125.19	117.19	119.71	108.31	104.47	118.87	
	13-23	129.37	104.58	95.44	94.14	93.27	95.87						
14	0	77.95	77.25	97.17	97.17	244.04	245.91	109.58	92.41	9999.00	237.65	100.18	
	41-41	116.77	126.45	115.51	103.19	94.14	116.35	117.61	92.41	171.78	178.94	9999.00	
	42-52	142.20	131.03	128.12	157.30	9999.00	135.60	134.36					
14	0	89.55	143.43	95.44	103.19	138.90	149.16	118.87	185.27	186.06	101.47	158.11	
	51-71	134.77	98.89	99.75	103.19	139.73	139.73	125.19	42.27	119.29	93.71	95.44	
	72-82	119.29	110.01	108.31	48.22	9999.00	224.77	138.08					
14	0	130.62	67.28	89.35	112.13	93.71	9999.00	191.95	191.17	191.95	193.52	180.92	
	83-89	184.08	183.59	176.95	161.74	164.96	153.24	157.30	157.30	156.89	157.30	159.32	
	91-101	181.52	179.34	174.17	159.75	162.15	151.61	155.27	0.00				
	102-112	177.35	153.55	116.77	193.11	106.18	149.98	149.98					
	113-120												
14	2	9999.00	117.51	140.55	104.34	95.44	107.03	99.75	95.44	104.04	100.18	101.90	
	2-12	104.04	99.75	131.45	131.03	121.00	125.19	112.97	115.51	107.03	104.04	114.66	
	13-23	123.94	109.16	95.87	94.57	93.27	96.30						
14	2	77.95	78.84	97.17	97.17	243.66	245.54	109.58	92.41	9999.00	236.14	100.18	
	41-41	116.77	126.03	115.51	104.34	94.57	116.35	117.19	92.41	173.77	178.94	9999.00	
	42-52	138.90	129.37	126.03	151.51	9999.00	135.18	131.86					
14	2	89.35	143.02	95.87	103.19	135.60	147.12	118.03	184.87	184.87	101.47	152.83	
	51-71	134.77	99.75	99.75	104.34	136.01	138.08	119.29	41.81	119.71	94.14	95.87	
	72-82	117.19	110.43	107.03	45.88	9999.00	224.77	134.77					
14	2	131.03	67.28	89.35	108.31	92.41	9999.00	187.24	186.06	187.63	189.60	176.95	
	83-89	181.52	179.34	174.17	159.75	162.15	151.61	155.27	155.27	155.27	155.27	157.30	
	91-101	177.35	153.55	116.77	191.51	104.04	149.98	149.98	0.00				
	102-112												
	113-120												

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-C (1-27-55)
 TEST POINT NO. 4, VERTICAL + V BEARS, SOLAR OFF, LUNAR ON,
 THERMAL JUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
14 4	2- 12	9999.00	117.61	140.55	104.94	95.87	107.03	99.75	95.87	104.04	100.18	99.75
	13- 23	104.47	99.75	131.85	131.45	121.00	125.19	110.86	112.55	108.31	104.04	112.55
	24- 29	121.42	110.01	95.87	95.44	93.27	96.30					
14 4	31- 41	77.92	73.40	97.17	97.17	243.29	244.79	109.58	92.41	9999.00	236.14	100.61
	42- 52	116.77	125.51	115.51	104.94	95.44	116.35	117.19	92.84	173.37	178.15	9999.00
	53- 59	136.43	125.56	125.94	145.50	9999.00	133.53	129.78				
14 4	51- 71	89.55	142.51	95.87	104.94	132.70	144.66	117.19	183.69	184.48	101.90	149.57
	72- 82	134.77	93.46	99.75	104.94	133.11	135.60	115.93	41.81	119.29	94.14	95.87
	83- 89	115.93	110.01	105.75	45.42	9999.00	224.77	132.28				
14 4	91-101	130.62	67.28	89.55	105.32	91.10	9999.00	183.29	182.11	184.08	185.66	173.77
	102-112	177.75	175.16	170.13	157.50	159.32	149.57	153.65	153.24	153.24	153.24	155.27
	113-120	174.17	152.02	116.77	145.71	102.76	149.98	149.98	0.00			
14 6	2- 12	9999.00	117.61	140.14	104.47	95.87	107.03	99.75	95.87	104.04	100.18	98.03
	13- 23	104.47	109.18	132.28	131.45	121.00	125.19	109.58	110.86	108.31	104.47	111.70
	24- 29	121.00	110.01	95.87	95.44	93.71	96.30					
14 6	31- 41	76.63	77.95	97.17	97.17	242.91	244.79	109.58	92.84	9999.00	235.77	100.61
	42- 52	116.77	122.19	115.51	104.94	94.57	115.93	116.77	92.84	173.37	178.15	9999.00
	53- 59	134.35	122.19	122.25	143.92	9999.00	132.28	127.70				
14 6	51- 71	89.55	142.20	95.87	104.94	130.20	143.02	116.77	183.69	184.48	101.90	146.71
	72- 82	134.35	99.75	99.75	104.94	130.62	133.53	113.40	41.81	119.29	94.14	95.87
	83- 89	115.09	110.01	105.32	46.42	9999.00	224.01	130.62				
14 6	91-101	130.62	67.28	89.55	104.94	91.10	9999.00	179.73	179.34	180.13	181.71	170.18
	102-112	173.77	172.97	168.13	153.68	157.30	148.35	152.02	151.61	152.02	152.02	153.24
	113-120	171.73	150.39	116.77	143.45	101.90	149.98	149.98	0.00			
14 8	2- 12	9999.00	117.61	139.73	104.47	95.87	107.03	99.75	95.87	104.04	100.18	97.17
	13- 23	104.47	99.75	133.53	131.45	121.42	125.19	108.31	109.58	108.31	104.04	110.01
	24- 29	119.71	109.58	95.87	95.44	93.27	96.30					
14 8	31- 41	76.63	73.40	97.17	97.17	242.54	244.41	109.58	92.84	9999.00	235.39	100.61
	42- 52	116.77	124.35	116.77	104.94	95.44	115.93	116.77	92.84	173.37	178.54	9999.00
	53- 59	133.53	123.52	121.00	140.55	9999.00	131.03	126.45				
14 8	51- 71	89.55	141.79	96.30	104.94	128.12	141.79	116.77	182.90	183.69	101.90	144.66
	72- 82	134.35	99.75	99.75	104.94	128.53	131.86	112.13	41.81	118.87	95.44	95.44
	83- 89	113.62	109.58	104.04	46.42	9999.00	224.01	129.37				
14 8	91-101	129.73	65.33	88.93	104.94	88.93	9999.00	177.35	176.56	177.75	180.52	168.98
	102-112	170.14	170.18	166.17	154.75	154.05	145.89	150.39	150.39	150.39	150.39	152.43
	113-120	170.13	149.37	116.77	141.79	101.04	149.98	149.98	0.00			
14 10	2- 12	9999.00	117.19	138.90	104.94	95.44	108.31	99.75	95.44	104.04	100.18	95.87
	13- 23	104.04	99.75	133.53	131.45	121.00	125.19	108.31	108.73	108.31	104.04	109.16
	24- 29	118.67	109.58	95.44	95.44	93.27	96.30					
14 10	31- 41	77.92	77.95	96.30	95.74	242.54	243.66	109.16	92.41	9999.00	235.77	100.18
	42- 52	116.77	123.10	116.77	104.94	95.44	115.51	116.77	92.84	173.77	178.15	9999.00
	53- 59	131.03	121.54	118.87	139.78	9999.00	129.37	125.19				
14 10	51- 71	88.49	141.79	95.44	104.94	126.45	139.78	116.77	182.11	182.11	101.47	142.61
	72- 82	133.94	99.75	99.75	104.94	126.45	129.78	112.55	41.81	118.45	95.44	95.44
	83- 89	113.40	109.16	104.04	45.42	9999.00	224.01	129.37				
14 10	91-101	129.73	65.33	88.93	101.90	88.49	9999.00	174.17	173.77	174.17	177.75	166.17
	102-112	169.73	163.98	164.55	153.24	154.05	145.89	149.57	149.57	149.57	149.57	150.39
	113-120	166.17	143.76	116.77	138.49	100.61	149.98	149.98	0.00			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-5 (1-27-55)
 TEST POINT NO. 4, VERTICAL + V TEARS, SOLAR OFF, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
14 12	2- 12	9999.00	115.77	138.08	104.04	95.87	108.31	99.75	95.44	104.04	100.18	95.44	95.44
	13- 23	104.04	99.75	133.53	133.53	121.00	125.19	108.31	108.31	108.31	104.04	108.31	108.31
	24- 29	118.03	109.16	95.87	95.44	93.27	96.30						
14 12	31- 41	77.95	77.95	96.30	96.30	242.54	243.66	109.16	92.41	9999.00	235.39	100.18	9999.00
	42- 52	116.77	121.84	116.77	104.04	95.44	114.66	116.77	92.84	173.37	178.15	9999.00	
	53- 59	129.78	121.00	118.03	137.67	9999.00	129.37	123.10					
14 12	61- 71	88.49	139.32	95.44	104.04	125.19	138.08	114.24	182.11	182.11	101.47	141.79	95.44
	72- 82	133.53	99.75	99.75	104.04	125.19	129.37	109.58	41.81	118.45	95.44	95.44	
	83- 89	113.40	109.58	104.04	46.42	9999.00	223.63	127.28					
14 12	91-101	129.73	69.07	88.93	101.47	88.49	9999.00	172.57	172.17	172.97	174.17	164.96	149.57
	102-112	166.17	165.17	162.15	152.02	153.24	145.48	149.57	148.35	148.76	148.76	149.57	
	113-120	165.77	147.94	116.77	137.67	100.18	149.98	149.98	0.00				
14 14	2- 12	9999.00	117.19	137.67	104.04	95.87	108.31	99.75	95.87	104.04	100.18	95.44	95.44
	13- 23	104.04	99.75	133.53	133.53	121.00	125.19	108.31	108.31	108.31	104.04	108.31	108.31
	24- 29	117.61	109.16	95.87	95.44	95.44	96.30						
14 14	31- 41	77.95	77.95	96.30	96.30	242.16	243.66	108.73	92.41	9999.00	235.01	100.18	9999.00
	42- 52	116.77	121.84	116.77	104.04	95.44	116.77	114.66	92.84	173.37	178.15	9999.00	
	53- 59	129.37	119.87	116.77	133.18	9999.00	126.45	122.26					
14 14	61- 71	88.49	139.32	95.87	104.04	125.19	137.67	113.82	182.11	182.11	101.47	141.79	95.44
	72- 82	133.53	99.75	99.75	104.04	125.19	126.86	108.31	41.81	118.03	93.27	95.44	
	83- 89	112.55	109.16	104.04	43.55	9999.00	223.25	126.45					
14 14	91-101	129.37	66.38	88.49	100.61	87.62	9999.00	170.18	170.18	170.18	172.97	162.15	148.35
	102-112	165.37	164.56	161.34	150.39	150.39	144.25	145.89	145.89	145.89	145.89	145.89	
	113-120	164.15	145.89	116.77	153.50	99.75	149.98	149.98	0.00				
14 16	2- 12	9999.00	116.77	137.67	104.47	95.87	108.31	99.75	95.87	104.04	100.18	95.44	95.44
	13- 23	104.04	100.18	133.53	133.53	121.00	125.19	105.32	106.18	108.31	104.04	108.31	108.31
	24- 29	116.77	109.31	95.87	95.44	95.44	96.30						
14 16	31- 41	75.74	77.95	96.30	95.30	241.79	243.66	108.31	92.41	9999.00	234.63	100.18	9999.00
	42- 52	116.77	121.00	116.77	104.04	95.44	114.66	114.24	92.84	173.37	178.15	9999.00	
	53- 59	129.37	118.45	116.77	133.53	9999.00	125.61	121.00					
14 16	61- 71	88.05	137.57	95.87	104.04	122.26	137.67	113.40	185.27	182.11	101.47	138.49	93.27
	72- 82	133.53	99.75	99.75	104.04	125.19	125.61	108.31	39.49	116.77	91.54	93.27	
	83- 89	110.43	108.31	101.04	42.73	9999.00	220.96	125.19					
14 16	91-101	129.57	65.04	86.74	99.75	86.74	9999.00	168.18	9999.00	169.38	170.18	161.34	145.89
	102-112	162.15	162.15	158.11	149.76	149.57	141.79	145.48	145.48	145.89	145.89	145.89	
	113-120	161.74	145.07	116.77	133.94	99.75	149.98	149.98	0.00				
14 18	2- 12	9999.00	116.77	137.67	104.47	96.30	108.31	99.75	95.87	104.04	100.61	91.97	91.97
	13- 23	104.04	100.18	133.53	133.53	121.42	125.19	104.90	105.32	104.90	101.04	105.32	105.32
	24- 29	114.65	109.31	95.87	95.44	95.44	96.30						
14 18	31- 41	75.74	77.95	95.87	95.87	241.79	243.29	108.31	92.84	9999.00	232.37	100.18	9999.00
	42- 52	115.09	121.00	116.77	104.04	95.44	116.77	114.24	92.84	9999.00	178.15	9999.00	
	53- 59	126.45	117.61	116.77	133.53	9999.00	125.19	121.00					
14 18	61- 71	88.05	137.57	95.87	104.04	121.84	135.18	112.97	182.11	182.11	101.04	137.67	92.84
	72- 82	133.53	99.75	99.75	104.04	122.26	125.19	105.32	39.03	9999.00	91.10	92.84	
	83- 89	110.01	109.31	100.61	41.81	9999.00	220.96	125.19					
14 18	91-101	129.57	65.04	86.74	99.75	86.74	9999.00	166.17	165.77	166.17	168.98	158.11	145.89
	102-112	160.94	160.94	157.70	145.89	148.35	141.38	145.07	144.25	144.66	144.66	145.89	
	113-120	160.53	143.84	116.77	133.53	99.75	149.98	149.98	0.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 4, VERTICAL + V TEARS, SOLAR OFF, LUNAR ON,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT
14 20	2- 12	9999.00 116.77 137.67 104.47 96.30 108.31 99.75 95.67 104.04 100.61 91.54
	13- 23	104.04 100.18 133.94 133.53 121.00 125.19 104.04 105.32 104.90 101.47 104.47
	24- 29	114.24 105.31 96.30 95.44 95.44 96.74
14 20	31- 41	75.74 77.95 95.87 239.91 243.29 108.31 92.84 9999.00 232.37 100.18
	42- 52	116.77 121.00 116.77 104.04 95.44 114.66 114.24 93.27 172.97 178.15 9999.00
	53- 59	126.03 117.19 133.53 9999.00 125.19 119.71 112.55
14 20	51- 71	88.03 137.57 96.30 104.04 121.00 134.36 112.55 181.32 182.11 101.04 137.67
	72- 82	133.53 99.75 99.75 104.04 121.42 123.52 104.90 39.03 116.77 91.54 93.27
	83- 89	110.43 108.31 101.04 42.27 9999.00 220.96 125.19
14 20	91-101	129.37 62.49 86.74 99.75 86.74 9999.00 164.56 164.96 166.17 166.17 158.11
	102-112	158.11 158.11 156.49 145.89 145.89 140.96 144.25 141.79 144.25 144.25 145.07
	113-120	158.11 141.79 116.77 133.53 99.75 149.98 149.98 0.00
14 22	2- 12	9999.00 116.77 135.60 104.90 96.30 108.31 99.75 96.30 104.04 100.61 91.97
	13- 23	104.04 100.51 133.94 133.53 121.42 125.19 104.04 104.90 105.75 104.04 105.75
	24- 29	115.09 109.31 96.30 95.44 95.44 96.74
14 22	31- 41	75.53 77.95 95.87 239.53 243.66 108.31 92.84 9999.00 232.37 100.18
	42- 52	114.65 118.57 116.77 104.04 95.44 114.66 113.82 93.27 172.57 178.15 9999.00
	53- 59	125.19 116.77 113.82 131.45 9999.00 122.68 118.87
14 22	51- 71	88.03 137.57 96.30 104.04 121.00 133.53 112.55 181.32 182.11 101.04 135.18
	72- 82	133.53 99.75 99.75 104.04 121.00 122.26 105.32 41.81 117.19 92.84 95.44
	83- 89	110.43 108.31 101.04 43.19 9999.00 220.96 125.19
14 22	91-101	129.37 66.38 87.62 99.75 86.74 9999.00 162.15 162.15 166.17 166.17 157.70
	102-112	158.11 158.11 154.05 145.89 145.89 141.38 144.25 141.79 144.25 144.25 144.66
	113-120	158.11 141.79 116.77 133.53 99.75 149.98 149.98 0.00
14 30	2- 12	9999.00 115.77 133.53 105.52 96.74 108.31 99.75 96.74 104.47 101.04 91.97
	13- 23	104.04 101.04 135.60 134.77 121.42 125.19 104.04 104.04 108.31 104.04 105.75
	24- 29	116.77 109.16 96.74 95.44 95.44 97.17
14 30	31- 41	75.74 77.95 95.44 239.91 243.29 108.31 95.44 9999.00 232.37 100.18
	42- 52	113.82 116.77 116.77 104.04 95.44 113.82 112.97 95.44 170.18 177.75 9999.00
	53- 59	123.10 114.24 112.55 131.45 9999.00 121.00 116.77
14 30	51- 71	87.13 133.53 96.74 104.04 118.45 130.62 110.01 180.52 181.71 101.47 133.53
	72- 82	133.53 99.75 100.13 104.04 119.29 121.00 104.47 39.49 117.19 92.84 95.44
	83- 89	110.01 108.73 101.47 42.73 9999.00 220.96 125.19
14 30	91-101	129.37 63.94 87.62 99.75 86.74 9999.00 158.11 158.11 160.53 160.53 153.65
	102-112	154.05 154.05 150.39 144.25 143.84 137.67 141.79 141.79 141.79 141.79 141.79
	113-120	154.05 141.79 114.24 130.20 99.75 149.98 149.98 0.00
14 40	2- 12	9999.00 113.92 130.62 105.75 97.60 106.18 99.75 97.17 104.47 101.04 95.44
	13- 23	104.04 101.90 137.67 137.67 121.42 123.10 101.47 104.04 112.55 108.31 108.31
	24- 29	116.45 112.97 97.60 95.44 95.44 97.60
14 40	31- 41	77.95 77.95 95.44 243.66 245.91 112.55 95.44 9999.00 235.77 99.75
	42- 52	112.55 116.77 101.90 95.87 112.55 112.55 112.55 95.44 170.18 176.95 9999.00
	53- 59	122.25 112.55 110.85 131.45 9999.00 118.03 115.09
14 40	51- 71	86.74 129.78 97.60 104.04 117.19 129.37 108.31 178.15 181.32 101.47 129.37
	72- 82	133.53 100.51 101.04 121.00 117.61 108.31 41.81 121.84 97.17 99.75
	83- 89	113.40 112.55 105.75 45.42 9999.00 224.01 129.37
14 40	91-101	133.53 69.96 92.41 101.47 91.10 9999.00 154.05 154.05 154.05 154.05 150.39
	102-112	150.39 149.57 144.25 141.79 140.14 141.79 141.79 141.79 141.79 141.79 141.79
	113-120	152.43 141.79 112.97 130.52 101.47 149.98 149.98 0.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 4, VERTICAL + V FEARS, SOLAR OFF, LUNAR ON,
 THERMA. BUNNY HEATERS OFF, RELIEF VALVE OPEN

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT											
14 50	2- 12	9999.00	112.55	129.37	106.18	97.60	105.32	99.75	97.60	104.47	101.04	95.44	
	13- 23	104.04	104.04	137.67	137.67	121.42	122.26	100.61	101.04	112.55	108.31	108.31	
14 50	24- 29	118.03	113.40	99.75	96.30	95.44	99.75	112.55	95.44	9999.00	236.14	99.75	
	31- 41	77.95	77.95	95.44	95.44	243.66	247.41	112.55	95.44	170.18	176.95	9999.00	
14 50	42- 52	112.55	109.58	113.82	101.74	96.30	112.55	114.66	180.52	181.32	101.90	129.37	
	53- 59	121.42	112.55	110.43	131.73	9999.00	117.19	114.66	42.27	122.26	97.60	99.75	
14 50	51- /1	86.74	129.37	99.75	104.74	116.77	126.86	108.31	153.24	154.05	154.05	150.39	
	72- 82	133.53	101.04	101.47	104.74	118.45	116.77	108.31	141.79	141.79	141.79	141.79	
14 50	83- 89	112.55	112.55	105.75	47.33	9999.00	224.77	129.37	0.00	0.00	0.00	0.00	
	91-101	133.53	70.41	92.41	101.47	91.10	9999.00	153.24	153.24	154.05	154.05	150.39	
14 57	102-112	149.57	149.57	148.76	141.79	141.79	140.14	141.79	141.79	141.79	141.79	141.79	
	113-120	150.39	141.79	112.55	130.20	101.90	149.98	149.98	99.75	104.47	101.47	95.44	
14 57	2- 12	9999.00	112.55	129.37	108.31	99.75	105.32	99.75	99.75	104.47	101.47	95.44	
	13- 23	104.04	104.04	138.49	139.78	121.42	122.26	99.75	100.61	110.86	108.31	108.31	
14 57	24- 29	118.03	112.97	99.75	95.74	95.44	99.75	112.55	95.44	9999.00	238.40	99.75	
	31- 41	77.95	77.95	95.44	95.44	246.66	249.27	112.55	95.44	170.18	176.95	9999.00	
14 57	42- 52	110.85	108.31	112.97	100.18	96.74	110.86	113.82	180.52	181.71	101.90	126.86	
	53- 59	121.00	112.55	110.43	130.52	9999.00	116.77	113.82	41.81	121.42	96.74	99.75	
14 57	51- /1	86.74	127.70	99.75	104.74	116.77	125.61	108.31	180.52	181.71	101.90	126.86	
	72- 82	133.53	101.47	101.47	104.74	118.03	116.77	108.31	41.81	121.42	96.74	99.75	
14 57	83- 89	112.55	112.97	105.32	46.42	9999.00	224.77	129.37	152.02	152.83	153.65	149.57	
	91-101	133.53	69.52	92.41	101.79	91.10	9999.00	152.02	152.02	152.83	153.65	149.57	
14 57	102-112	149.15	148.76	147.94	141.79	141.79	137.67	141.38	140.96	141.38	141.38	140.55	
	113-120	150.39	141.38	112.55	129.78	101.04	149.98	149.98	0.00	0.00	0.00	0.00	

A20-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 4, VERTICAL + / TEARS, SOLAR OFF, LUNAR ON,
 THERM. DUMMY HEATERS OFF, RELIEF VALVE OPEN

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT										
13 55	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	98.00	99.00	105.00	104.00	106.00	107.00
	B12-B22	127.00	110.00	123.00	101.00	105.00	99.00	98.00	97.00	112.00	111.00	125.00
	B23-B24	132.00	-0.00									
13 57	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	106.00	104.00	106.00	107.00
	B12-B22	127.00	110.00	123.00	101.00	105.00	99.00	97.00	97.00	107.00	106.00	126.00
	B23-B24	131.00	-0.00									
14 0	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	106.00	105.00	106.00	108.00
	B12-B22	127.00	111.00	123.00	101.00	105.00	100.00	98.00	98.00	108.00	107.00	126.00
	B23-B24	128.00	-0.00									
14 10	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	100.00	100.00	106.00	105.00	106.00	108.00
	B12-B22	128.00	111.00	124.00	102.00	106.00	100.00	98.00	97.00	108.00	108.00	127.00
	B23-B24	122.00	-0.00									
14 20	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	100.00	100.00	106.00	105.00	106.00	108.00
	B12-B22	128.00	110.00	124.00	102.00	106.00	101.00	100.00	99.00	108.00	108.00	128.00
	B23-B24	119.00	-0.00									
14 30	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	100.00	100.00	106.00	105.00	106.00	107.00
	B12-B22	127.00	110.00	123.00	103.00	106.00	101.00	100.00	98.00	109.00	108.00	128.00
	B23-B24	117.00	-0.00									
14 40	B01-B11	9999.00	9999.00	82.00	9999.00	9999.00	99.00	100.00	106.00	105.00	106.00	107.00
	B12-B22	126.00	109.00	123.00	103.00	106.00	101.00	100.00	99.00	109.00	108.00	127.00
	B23-B24	114.00	-0.00									
14 50	B01-B11	9999.00	9999.00	82.00	9999.00	9999.00	99.00	100.00	106.00	105.00	106.00	106.00
	B12-B22	125.00	109.00	123.00	103.00	106.00	101.00	100.00	99.00	109.00	108.00	126.00
	B23-B24	113.00	-0.00									
14 56	B01-B11	9999.00	9999.00	82.00	9999.00	9999.00	99.00	100.00	105.00	105.00	105.00	106.00
	B12-B22	125.00	109.00	123.00	103.00	106.00	101.00	101.00	99.00	109.00	108.00	126.00
	B23-B24	112.00	-0.00									

APOLLO EXTRAVEHICULAR SUIT TEST

EXPERIMENT II-C

TEST DAY NO. 1

TEST POINT NO 5

DATE 1-27-65

TEMPERATURE °F

Chan. No.	TIME OF DAY									
	°F		Chan. No.	°F		Chan. No.	°F		Chan. No.	°F
1	—		31	78		61	85		91	134
2	—		32	78		62	127		92	69
3	113		33	95		63	100		93	91
4	127		34	95		64	104		94	100
5	9999		35	247		65	117		95	91
6	100		36	250		66	125		96	—
7	105		37	9999		67	108		97	150
8	100		38	95		68	181		98	150
9	100		39	—		69	182		99	150
10	104		40	239		70	102		100	153
11	101		41	100		71	127		101	149
12	95		42	110		72	134		102	148
13	104		43	108		73	102		103	148
14	104		44	113		74	102		104	146
15	139		45	100		75	104		105	142
16	139		46	97		76	118		106	142
17	122		47	110		77	117		107	138
18	122		48	113		78	106		108	141
19	100		49	95		79	42		109	141
20	100		50	170		80	121		110	141
21	110		51	178		81	97		111	141
22	108		52	—		82	100		112	140
23	108		53	121		83	113		113	149
24	117		54	113		84	113		114	141
25	113		55	110		85	105		115	113
26	100		56	131		86	46		116	130
27	97		57	—		87	—		117	100
28	95		58	117		88	227			
29	100		59	114		89	129			
30	—		60	—		90	—			

APOLLO EXTRAVEHICULAR SUIT TEST

EXPERIMENT II-C

TEST DAY NO. 1

TEST POINT NO 5

DATE 1-27-65

TEMPERATURE °F

Chan. No.	TIME OF DAY											
	1507.2	7.3	7.4	7.6	7.7	7.8	7.9	1508.0	8.1	8.2	8.3	
53		125	9999	129	131	132	134	134	136	138	138	
54		113	113	113	113	113	113	113	113	113	113	
55		110	110	110	110	110	110	110	110	110	110	
56		173	185	189	192	196	198	200	201	201	202	
58		117	117	117	117	117	117	117	117	117	117	
59		114	114	114	114	114	114	114	114	114	114	
116		138	140	142	143	146	9999	150	152	154	154	
	1508.4	8.6	8.7	8.8	8.9	1509.0	9.1	9.2	9.3	9.4	9.6	
53	138	139	139	140	142	142	142	142	143	143	144	
54	113	113	113	113	113	113	113	113	113	113	113	
55	110	110	110	110	110	110	110	110	110	110	110	
56	204	204	204	205	206	206	208	209	209	209	212	
58	117	117	117	117	117	117	117	117	117	117	117	
59	114	114	114	114	114	114	114	114	114	114	114	
116	157	158	158	161	162	162	165	166	166	166	169	
	1509.7	9.8	9.9	1510.0	10.1	10.2	10.3	10.4	10.6	10.7	10.8	
53	144	146	146	146		146		147	148		150	
54	113	113	113	113		113		113	113		113	
55	110	110	110	110		110		110	110		110	
56	213	212	212	213		216		217	217		217	
58	117	117	117	117		117		118	118		118	
59	114	114	114	114		115		115	118		118	
116	170	170	170	170		174		174	177		178	

APOLLO EXTRAVEHICULAR SUIT TEST

EXPERIMENT II-C

TEST DAY NO. 1

TEST POINT NO 5

DATE 1-27-65

TEMPERATURE °F

Chan. No.	TIME OF DAY										
	1510.9	1511.0	11.1	11.2	11.3	11.4	11.6	11.7	11.8	11.9	1512.0
53		150		150		150	152		153		153
54		113		110		113	9999		113		113
55		110		110		110	110		110		110
56		219		221		221	221		221		223
58		117		117		117	117		117		117
59		115		117		116	117		117		117
116		178		181		182	182		184		185
	1512.1	12.2	12.3	12.4	12.6	12.7	12.8	12.9	1513.0	13.1	13.2
53		154		154	154		154		154		154
54		113		113	113		113		113		113
55		111		111	113		113		113		113
56		224		224	224		225		225		225
58		117		117	117		117		117		117
59		117		117	117		117		117		117
116		186		186	186		186		189		189
	1513.3	13.4	13.6	13.7	13.8	13.9	1514.0	14.1	14.2	14.3	14.4
53		154	156		157		157		157		158
54		113	113		113		113		113		113
55		113	113		113		113		113		113
56		227	227		228		228		228		228
58		117	117		117		117		117		117
59		117	117		118		118		118		118
116		190	190		190		192		193		194

APOLLO EXTRAVEHICULAR SUIT TEST

EXPERIMENT II-C

TEST DAY NO. 1

TEST POINT NO 5

DATE 1-27-65

TEMPERATURE °F

Chan. No.	TIME OF DAY 1517									
	°F		Chan. No.	°F		Chan. No.	°F		Chan. No.	°F
1	—		31	82		61	83		91	60
2	—		32	82		62	129		92	-34
3	109		33	95		63	100		93	-26
4	127		34	95		64	104		94	42
5	9999		35	247		65	122		95	-6
6	100		36	250		66	129		96	—
7	104		37	9999		67	108		97	166
8	100		38	95		68	181		98	166
9	100		39	—		69	182		99	166
10	104		40	235		70	101		100	170
11	101		41	100		71	138		101	142
12	83		42	109		72	131		102	161
13	104		43	108		73	100		103	154
14	104		44	113		74	100		104	138
15	140		45	100		75	104		105	100
16	142		46	97		76	127		106	104
17	122		47	110		77	126		107	80
18	121		48	113		78	70		108	87
19	121		49	95		79	-10		109	88
20	125		50	170		80	9		110	88
21	125		51	177		81	-26		111	88
22	24		52	—		82	-9		112	97
23	78		53	129		83	42		113	144
24	95		54	113		84	30		114	82
25	29		55	114		85	9999		115	110
26	100		56	121		86	-24		116	165
27	98		57	—		87	—		117	19
28	96		58	121		88	221			
29	100		59	121		89	100			
30	—		60	—		90	—			

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 5, VERTICAL + V TEAMS, SOLAR ON, FACING SOLAR,
 - JVAR ON, THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
15 0	B11-B11	9999.00	9999.00	82.00	9999.00	9999.00	99.00	100.00	105.00	105.00	105.00	107.00	
	B12-B22	125.00	109.00	122.00	103.00	106.00	101.00	100.00	99.00	109.00	109.00	126.00	
	B23-B24	111.00	-0.00										
15 4	B11-B11	9999.00	9999.00	82.00	9999.00	9999.00	99.00	100.00	105.00	105.00	105.00	107.00	
	B12-B22	125.00	109.00	122.00	103.00	106.00	101.00	100.00	99.00	109.00	109.00	125.00	
	B23-B24	111.00	-0.00										
15 6	B11-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	105.00	105.00	105.00	107.00	
	B12-B22	124.00	109.00	122.00	103.00	105.00	100.00	100.00	99.00	109.00	108.00	125.00	
	B23-B24	111.00	-0.00										
15 7	B11-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	105.00	104.00	105.00	107.00	
	B12-B22	124.00	109.00	122.00	102.00	105.00	101.00	101.00	99.00	109.00	109.00	125.00	
	B23-B24	111.00	-0.00										
15 8	B11-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	105.00	105.00	105.00	107.00	
	B12-B22	124.00	110.00	121.00	103.00	106.00	101.00	101.00	99.00	109.00	109.00	125.00	
	B23-B24	116.00	-0.00										
15 10	B11-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	105.00	105.00	105.00	107.00	
	B12-B22	124.00	113.00	121.00	103.00	105.00	100.00	100.00	98.00	109.00	109.00	125.00	
	B23-B24	121.00	-0.00										
15 12	B11-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	105.00	105.00	105.00	107.00	
	B12-B22	124.00	110.00	121.00	103.00	105.00	100.00	100.00	98.00	109.00	109.00	125.00	
	B23-B24	126.00	-0.00										
15 14	B11-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	104.00	104.00	105.00	108.00	
	B12-B22	124.00	110.00	121.00	103.00	106.00	100.00	100.00	99.00	109.00	108.00	125.00	
	B23-B24	129.00	-0.00										
15 16	B11-B11	9999.00	9999.00	81.00	9999.00	9999.00	99.00	100.00	104.00	104.00	105.00	108.00	
	B12-B22	124.00	113.00	122.00	103.00	106.00	100.00	100.00	99.00	109.00	108.00	125.00	
	B23-B24	128.00	-0.00										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-5414, EXP. II-C (1-27-55)
 TEST POINT NO. 6, VERTICAL + TEARS, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
15 17	2-12	9999.00	109.16	126.85	108.31	99.75	104.04	100.18	104.47	99.75	101.04	83.24
	13-23	104.04	104.04	139.73	141.79	121.84	121.42	121.00	37.17	125.19	24.04	77.95
15 17	24-29	95.44	29.23	99.75	97.50	96.30	99.75					
	31-41	82.35	82.36	95.44	95.44	246.65	250.39	18.34	9999.00	95.44	234.63	99.75
	42-52	109.15	109.31	112.55	99.75	97.17	109.58	112.55	170.18	95.44	177.35	9999.00
15 17	53-59	129.37	112.55	113.82	121.42	9999.00	121.00	121.00				
	61-71	83.24	129.37	99.75	104.74	122.26	129.37	108.31	181.32	181.32	101.47	137.67
	72-82	131.03	100.51	100.61	104.74	126.86	126.45	69.96	-9.84	-9.84	-25.91	-8.85
	83-89	41.81	29.70	15.00	-24.39	9999.00	220.96	100.61				
15 17	91-101	60.03	-34.10	-25.91	41.81	-5.89	9999.00	166.17	166.17	166.17	169.78	141.79
	102-112	160.94	153.55	137.67	99.75	104.04	79.72	86.74	88.49	88.49	88.05	96.74
	113-120	144.25	82.36	109.58	165.37	19.30	9999.00	9999.00	9999.00	9999.00		
15 19	2-12	9999.00	109.16	126.85	108.31	99.75	104.47	100.18	104.47	99.75	101.04	5.85
	13-23	104.04	104.04	141.79	141.79	121.84	121.84	104.04	-36.16	108.73	-49.22	18.34
	24-29	18.82	-39.79	99.75	99.75	95.87	99.75					
15 19	31-41	77.95	78.40	95.44	95.44	243.29	245.91	-46.59	9999.00	95.44	228.58	99.75
	42-52	109.15	109.31	112.55	99.75	97.17	109.58	112.55	170.18	95.87	177.35	9999.00
	53-59	116.77	113.40	113.82	99.75	9999.00	121.00	121.00				
15 19	61-71	82.80	129.37	99.75	104.04	122.68	129.37	108.73	182.11	178.15	99.75	137.67
	72-82	133.53	100.18	100.18	104.04	123.10	126.45	23.09	-41.35	-34.61	-76.23	-46.59
	83-89	0.49	-0.98	-36.16	-68.03	9999.00	216.37	69.07				
15 19	91-101	39.03	-72.93	-72.93	-10.34	-50.28	9999.00	157.30	157.30	156.08	158.11	129.37
	102-112	152.02	158.11	125.19	82.36	82.36	60.08	69.07	70.41	73.52	70.41	82.36
	113-120	132.71	64.59	109.58	141.79	-19.34	9999.00	9999.00	9999.00	9999.00		
15 20	2-12	9999.00	109.16	127.29	108.31	99.75	104.47	100.18	104.47	99.75	101.04	-29.99
	13-23	104.04	104.04	141.79	141.79	122.26	121.84	92.41	-76.78	99.75	-84.58	-10.84
	24-29	-15.82	-73.48	99.75	97.50	96.30	99.75					
15 20	31-41	77.95	77.95	95.44	95.44	238.78	239.91	-82.34	9999.00	95.44	224.01	99.75
	42-52	109.15	108.31	111.28	97.50	97.60	109.58	110.86	170.18	95.87	177.35	9999.00
	53-59	108.31	113.40	113.40	85.74	9999.00	121.00	118.03				
15 20	61-71	82.80	129.37	99.75	101.04	122.26	129.37	108.73	181.32	178.15	99.75	135.18
	72-82	131.45	100.51	99.75	101.47	121.00	125.19	-5.89	-68.03	-46.59	-101.75	-68.03
	83-89	-20.34	-15.82	-62.59	-94.23	9999.00	211.76	46.42				
15 20	91-101	28.75	-95.96	-95.96	-41.85	-73.48	9999.00	145.89	148.35	145.89	150.39	120.58
	102-112	141.58	133.53	116.77	69.96	69.07	52.82	56.92	60.08	61.44	60.08	73.52
	113-120	123.52	52.55	109.58	125.41	-41.35	9999.00	9999.00	9999.00	9999.00		
15 22	2-12	9999.00	108.73	127.28	108.31	99.75	104.47	100.18	104.47	99.75	101.47	-51.34
	13-23	104.47	104.04	141.79	141.79	122.26	121.84	86.74	-99.42	95.44	-105.84	-26.93
	24-29	-36.15	-95.96	99.75	99.75	96.30	99.75					
15 22	31-41	77.95	77.95	95.44	95.44	234.26	235.39	-101.75	9999.00	95.44	219.43	99.75
	42-52	109.15	106.18	112.55	97.17	97.60	109.58	112.55	170.18	95.87	176.56	9999.00
	53-59	104.04	113.40	112.55	74.41	9999.00	121.00	116.77				
15 22	61-71	82.35	129.37	97.17	99.75	121.00	129.37	108.31	178.15	174.17	95.87	133.53
	72-82	130.20	100.18	99.75	100.51	116.77	123.52	-23.88	-84.58	-56.67	-119.51	-82.34
	83-89	-31.01	-28.46	-78.99	-107.50	9999.00	205.58	27.82				
15 22	91-101	20.25	-111.15	-112.93	-59.89	9999.00	9999.00	137.67	140.55	138.90	141.79	112.55
	102-112	133.11	125.19	108.31	61.99	57.82	41.81	51.00	51.91	55.55	51.91	65.04
	113-120	115.93	45.42	109.58	114.24	-56.67	9999.00	9999.00	9999.00	9999.00		

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 6, VERTICAL + V TEARS, SOLAR OFF, LUNAR OFF,
 THERM_ DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT												
15 24	2- 12	9999.00	108.73	126.86	108.31	99.75	104.47	100.18	99.75	104.47	101.47	104.47	101.47	-66.42
	13- 23	104.47	104.04	141.79	141.79	122.26	121.84	82.80	91.10	121.84	-112.33	-118.31	-118.31	-36.16
15 24	24- 29	-49.22	-110.55	99.75	99.75	96.30	99.75		95.44	228.20	9999.00	213.30	100.18	9999.00
	31- 41	77.95	77.95	95.44	95.44	228.58	228.20	-113.52	95.44	109.58	170.18	176.16	176.16	9999.00
	42- 52	108.73	105.75	112.55	96.74	99.75	119.29	114.24	95.87	112.55				
	53- 59	99.75	112.97	112.55	66.38	9999.00	119.29	114.24	173.37	177.75	95.44	95.44	131.03	131.03
15 24	51- 71	82.35	125.96	96.74	99.75	121.00	126.86	108.31	-62.05	126.86	-95.96	-131.09	-90.24	-90.24
	72- 82	129.37	99.75	96.74	99.75	112.97	121.42	-38.75	173.37	121.42				
	83- 89	-41.35	-36.16	-90.24	-117.71	9999.00	201.70	13.56	-62.05	201.70				
15 24	91-101	14.04	-119.51	-123.75	-73.48	-95.96	9999.00	131.86	131.45	133.11	136.43	136.43	104.04	104.04
	102-112	121.09	116.77	102.33	53.55	51.00	32.51	41.81	46.42	46.42	46.42	46.42	58.73	58.73
	113-120	108.31	39.49	109.58	108.31	-67.49	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
15 26	2- 12	9999.00	103.73	126.45	108.31	99.75	104.47	100.18	99.75	104.47	101.47	104.47	101.47	-76.78
	13- 23	104.47	104.04	141.79	141.79	122.26	121.84	80.16	86.74	121.84	-123.14	-125.57	-125.57	-45.54
15 26	24- 29	-57.20	-119.51	99.75	97.50	96.30	99.75		95.44	222.87	9999.00	209.45	99.75	99.75
	31- 41	75.30	75.19	95.44	95.44	222.87	222.87	-123.75	95.44	109.58	169.38	174.17	174.17	9999.00
	42- 52	108.73	105.32	110.43	96.74	99.75	109.58	112.55	95.44	112.55				
	53- 59	95.44	112.35	110.01	60.08	9999.00	118.45	112.55	95.44	118.45				
15 26	51- 71	80.15	125.51	96.74	97.17	117.19	125.61	108.31	170.18	125.61	92.41	92.41	129.37	129.37
	72- 82	126.45	99.75	95.44	99.75	110.01	118.87	-49.75	-66.42	118.87	-101.75	-137.92	-137.92	-95.96
	83- 89	-46.59	-41.35	-100.58	-124.36	9999.00	197.42	-0.98	124.77	197.42				
15 26	91-101	9.23	-125.57	-131.71	-83.46	-106.43	9999.00	124.77	124.77	124.77	129.37	129.37	96.74	96.74
	102-112	108.31	111.70	95.44	51.00	41.81	27.82	37.17	41.81	27.82	39.49	39.49	52.82	52.82
	113-120	99.75	33.44	109.15	99.75	-78.44	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
15 28	2- 12	9999.00	103.73	126.03	108.31	99.75	104.47	100.18	99.75	104.47	101.04	104.47	101.04	-83.46
	13- 23	104.47	104.04	141.79	141.79	122.26	121.84	78.40	84.12	121.84	-131.71	-135.43	-135.43	-51.87
15 28	24- 29	-65.83	-125.57	98.46	97.17	96.30	99.75		95.44	215.98	9999.00	9999.00	9999.00	99.75
	31- 41	75.37	72.74	95.44	95.44	215.98	215.98	-123.75	95.44	109.58	168.58	174.17	174.17	9999.00
	42- 52	108.73	104.90	110.01	95.30	99.75	109.58	110.01	95.87	109.58				
	53- 59	92.41	112.35	109.58	53.55	9999.00	117.61	112.55	168.98	117.61				
15 28	51- 71	78.84	125.19	95.87	95.30	116.77	125.19	108.31	168.98	125.19	91.10	91.10	126.86	126.86
	72- 82	125.19	99.75	95.44	97.17	108.31	116.77	-56.13	-68.03	116.77	-107.60	-144.22	-144.22	-101.75
	83- 89	-51.87	-49.75	-107.01	-130.48	9999.00	192.34	-10.34	116.77	192.34				
15 28	91-101	3.90	-131.09	-137.92	-90.24	-112.93	9999.00	116.77	116.77	120.13	123.10	123.10	91.10	91.10
	102-112	107.45	104.04	88.05	43.65	37.17	20.72	29.23	34.38	33.91	33.44	33.44	47.33	47.33
	113-120	95.44	27.92	109.15	95.44	-87.40	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
15 30	2- 12	9999.00	103.31	125.19	108.31	99.75	104.47	99.75	99.75	104.47	101.47	104.47	101.47	-90.24
	13- 23	104.04	104.04	141.79	141.79	121.84	121.84	77.95	82.36	121.84	-136.67	-137.92	-137.92	-56.67
15 30	24- 29	-72.93	-131.71	99.75	97.17	96.30	97.60		95.44	208.29	9999.00	197.81	197.81	99.75
	31- 41	74.85	77.95	95.44	95.44	209.45	209.45	-137.30	95.44	109.58	166.17	174.17	174.17	9999.00
	42- 52	108.31	104.04	109.58	95.44	99.75	109.16	109.58	95.44	109.16				
	53- 59	91.10	112.55	108.31	51.00	9999.00	116.77	109.16	95.44	116.77				
15 30	51- 71	77.95	121.84	95.44	95.44	114.24	122.68	108.31	166.17	122.68	91.10	91.10	125.19	125.19
	72- 82	122.25	99.75	93.27	95.87	104.47	113.82	-62.59	-72.38	113.82	-113.52	-150.60	-150.60	-107.01
	83- 89	-56.67	-55.60	-112.33	-134.10	9999.00	186.06	-20.34	112.55	186.06				
15 30	91-101	-0.93	-137.30	-142.32	-95.36	-117.71	9999.00	112.13	112.55	112.55	116.77	116.77	84.56	84.56
	102-112	103.19	99.75	82.80	38.57	29.23	15.48	24.04	29.23	28.76	28.29	28.29	42.27	42.27
	113-120	88.49	23.09	109.15	91.10	-93.66	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-C (1-27-55)
 TEST POINT NO. 6, VERTICAL + TEARS, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
15 32	2- 12	9999.00	105.31	125.19	108.31	99.75	104.47	99.75	99.75	104.47	101.04	-95.96	
	13- 23	104.04	141.79	141.79	141.79	121.84	121.42	77.95	82.36	-142.32	-144.22	-60.97	
	24- 29	-76.78	-137.30	98.03	95.74	95.87	97.17						
15 32	31- 41	74.41	75.30	95.44	95.44	204.03	201.70	-141.69	95.44	9999.00	193.91	99.75	
	42- 52	108.31	104.04	109.58	95.44	99.75	109.16	109.58	95.87	166.17	173.37	9999.00	
	53- 59	88.05	112.55	108.31	45.42	9999.00	115.09	108.31					
15 32	51- 71	77.95	121.00	95.44	95.44	112.55	121.00	105.75	164.96	170.18	88.49	125.19	
	72- 82	121.00	97.17	92.41	95.44	104.04	112.55	-68.03	-73.48	-116.91	-155.13	-110.55	
	83- 89	-60.43	-57.20	-117.11	-137.30	9999.00	181.32	-28.97					
15 32	91-101	-5.40	-141.59	-142.95	-101.75	-121.93	9999.00	104.04	106.60	108.31	111.28	78.84	
	102-112	92.84	92.41	77.95	33.91	24.51	10.68	19.30	23.57	24.04	23.09	37.64	
	113-120	83.24	13.34	108.31	86.74	-95.96	9999.00	9999.00	9999.00				
15 34	2- 12	9999.00	108.31	123.10	108.31	99.75	104.04	99.75	99.75	104.47	101.04	-100.58	
	13- 23	104.04	104.04	141.79	141.79	121.84	121.42	74.86	79.72	-142.95	-149.96	-64.27	
	24- 29	-78.99	-143.58	97.60	95.74	95.87	96.74						
15 34	31- 41	73.97	74.86	95.44	95.44	197.03	193.91	-144.22	95.44	9999.00	188.42	99.75	
	42- 52	108.31	104.04	109.15	95.44	99.75	109.16	109.16	95.87	165.77	172.97	9999.00	
	53- 59	86.74	109.58	108.31	42.27	9999.00	113.82	168.31					
15 34	51- 71	75.30	117.19	95.44	92.41	112.55	121.00	104.90	162.15	170.18	87.18	122.68	
	72- 82	117.61	96.30	91.10	95.44	100.18	108.73	-72.93	-76.78	-123.75	-157.08	-113.52	
	83- 89	-62.59	-62.59	-119.51	-137.92	9999.00	174.17	-35.64					
15 34	91-101	-10.84	-143.58	-150.60	-107.50	-125.57	9999.00	99.75	99.75	103.61	106.60	73.97	
	102-112	86.74	87.52	73.52	29.70	19.77	8.75	13.56	18.82	19.77	19.30	32.51	
	113-120	78.41	13.56	108.31	82.90	-101.75	9999.00	9999.00	9999.00				
15 36	2- 12	9999.00	108.31	121.42	108.31	99.75	104.04	99.75	99.75	104.47	101.04	-105.84	
	13- 23	104.04	104.04	141.79	141.79	121.42	121.42	73.97	78.84	-149.96	-150.60	-66.96	
	24- 29	-83.46	-143.58	97.60	95.30	95.87	96.74						
15 36	31- 41	73.52	74.86	95.44	95.44	189.99	188.42	-149.32	95.44	9999.00	182.11	99.75	
	42- 52	108.31	101.47	108.73	95.44	99.75	108.73	108.73	95.44	164.96	170.18	9999.00	
	53- 59	86.74	108.73	105.75	41.41	9999.00	112.97	105.75					
15 36	51- 71	73.97	115.09	95.44	91.54	110.01	118.45	104.47	160.94	168.98	86.74	121.42	
	72- 82	116.77	95.97	91.10	92.84	99.75	108.31	-77.88	-78.44	-125.57	-161.68	-115.91	
	83- 89	-65.83	-68.03	-123.75	-142.32	9999.00	170.18	-41.35					
15 36	91-101	-15.32	-147.40	-153.83	-111.74	-129.25	9999.00	95.44	95.44	96.74	99.75	69.07	
	102-112	83.63	82.80	69.07	27.42	15.00	3.90	10.20	14.52	15.48	15.00	28.76	
	113-120	73.97	9.71	108.31	82.36	-105.84	9999.00	9999.00	9999.00				
15 38	2- 12	9999.00	108.31	121.00	108.31	99.75	104.04	99.75	99.75	104.47	101.04	-107.01	
	13- 23	104.04	104.04	141.79	141.79	121.42	121.00	73.52	77.95	-150.60	-156.43	-70.20	
	24- 29	-89.10	-149.96	97.17	95.87	95.44	96.30						
15 38	31- 41	73.52	74.41	95.44	95.44	184.48	180.92	-150.60	94.14	9999.00	176.95	99.75	
	42- 52	108.31	100.51	108.31	95.44	99.75	108.31	108.31	95.44	162.15	170.18	9999.00	
	53- 59	83.24	108.31	104.90	37.54	9999.00	112.55	104.47					
15 38	51- 71	73.52	112.55	95.44	91.10	108.31	117.19	104.04	158.11	166.17	86.74	121.00	
	72- 82	113.40	95.44	91.10	91.97	96.74	104.04	-82.90	-80.66	-129.86	-163.66	-118.91	
	83- 89	-68.03	-72.38	-125.57	-144.22	9999.00	164.96	-46.59					
15 38	91-101	-19.84	-149.96	-156.43	-115.31	-130.48	9999.00	91.10	91.10	91.97	95.44	65.04	
	102-112	82.35	77.95	64.59	23.19	13.56	-0.98	5.85	10.68	13.56	10.20	24.99	
	113-120	69.52	5.85	108.31	78.40	-111.15	9999.00	9999.00	9999.00				

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 WAS 9-3414, EXP. 11-C (1-27-55)
 TEST POINT NO. 6, VERTICAL + V TEARS, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	C-HANNELS	TEMPERATURES - FAHRENHEIT															
15	40	9999.07	109.31	117.61	109.31	99.75	104.04	99.75	104.04	99.75	104.47	101.04	9999.00	99.75	104.47	101.04	9999.00
		104.04	141.79	141.79	141.79	121.00	121.00	121.00	121.00	71.74	-157.08	-161.02	-73.48	77.95	-157.08	-161.02	-73.48
		-94.61	-155.13	96.74	95.44	95.44	95.44	95.44	95.44	-157.08	93.71	9999.00	165.37	93.71	9999.00	165.37	99.75
15	40	73.52	75.97	95.44	95.44	172.57	168.18	108.31	108.31	108.31	161.74	169.38	9999.00	95.44	161.74	169.38	9999.00
		108.31	99.75	108.31	33.91	9999.00	109.58	104.04	104.04	154.05	162.15	83.68	118.45	154.05	162.15	83.68	118.45
15	40	82.55	109.31	104.04	91.10	108.31	115.09	104.04	104.04	-83.46	-135.43	-169.01	-122.54	-83.46	-135.43	-169.01	-122.54
		69.96	109.58	95.44	88.05	91.10	95.44	100.18	56.13	82.36	83.68	86.74	56.92	82.36	83.68	86.74	56.92
15	40	-71.84	-78.99	-131.09	-144.22	9999.00	154.05	82.36	82.36	3.90	4.88	18.34	56.92	82.36	83.68	86.74	56.92
		-28.97	-150.50	-161.68	-121.32	-136.67	9999.00	-8.36	-0.98	9999.00	9999.00	9999.00	18.34	3.90	4.88	18.34	56.92
		73.52	69.96	57.37	15.43	5.90	-8.36	-0.98	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		61.89	-0.98	108.31	74.86	-117.11	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
15	50	9999.00	105.32	109.59	105.18	99.75	104.04	99.75	104.04	99.75	104.04	100.61	-124.36	99.75	104.04	100.61	-124.36
		104.04	104.04	141.79	141.79	121.00	121.00	121.00	121.00	69.07	-167.67	-170.36	-82.34	73.97	-167.67	-170.36	-82.34
		-109.25	-163.00	95.44	93.27	93.27	95.44	95.44	95.44	-163.00	91.97	9999.00	137.67	91.97	9999.00	137.67	99.75
15	50	73.97	75.97	92.84	92.84	141.79	155.18	106.18	106.18	106.18	156.08	164.16	9999.00	95.44	156.08	164.16	9999.00
		104.47	95.44	106.18	91.10	97.60	108.31	99.75	99.75	145.89	156.49	82.36	115.09	95.44	156.08	164.16	9999.00
		77.95	104.04	101.47	29.23	9999.00	105.75	99.75	99.75	145.89	156.49	82.36	115.09	95.44	156.08	164.16	9999.00
15	50	64.59	97.17	91.10	86.74	87.52	91.10	91.97	91.97	-101.75	-144.22	-177.18	-129.86	-89.67	-144.22	-177.18	-129.86
		101.47	91.10	86.74	87.52	91.10	91.97	91.97	91.97	-101.75	-144.22	-177.18	-129.86	-89.67	-144.22	-177.18	-129.86
		-78.44	-95.96	-137.58	-150.63	9999.00	125.61	-71.84	-71.84	64.59	65.49	69.07	41.81	64.59	65.49	69.07	41.81
15	50	-46.59	-157.08	-170.36	-132.35	-144.22	9999.00	64.59	64.59	-10.84	-10.34	-10.84	3.90	-10.84	-10.34	-10.84	3.90
		51.00	52.82	41.81	1.47	-10.84	-23.88	-18.33	-18.33	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		46.42	-17.92	105.75	69.52	-125.57	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
16	0	9999.07	104.04	100.61	104.96	99.75	101.47	96.74	96.74	96.74	104.04	100.18	-135.43	99.75	104.04	100.18	-135.43
		101.99	104.04	141.79	141.79	121.00	118.03	65.94	65.94	71.30	-174.44	-177.18	-87.97	71.30	-174.44	-177.18	-87.97
		-113.52	-170.36	92.41	91.10	91.97	91.10	91.10	91.10	89.80	9999.00	105.32	97.17	89.80	9999.00	105.32	97.17
16	0	78.40	78.40	92.84	92.41	108.31	101.90	-174.44	-174.44	92.84	9999.00	105.32	97.17	92.84	9999.00	105.32	97.17
		104.04	85.93	104.04	85.74	97.17	105.32	104.47	104.47	92.84	9999.00	105.32	97.17	92.84	9999.00	105.32	97.17
		73.52	100.18	99.75	24.51	9999.00	104.04	96.30	96.30	134.36	145.89	77.95	112.55	134.36	145.89	77.95	112.55
16	0	55.55	85.74	87.62	82.80	100.61	104.47	96.30	96.30	-95.96	-156.43	-183.43	-136.05	-95.96	-156.43	-183.43	-136.05
		95.44	89.05	89.05	85.74	86.74	86.74	86.74	86.74	-95.96	-156.43	-183.43	-136.05	-95.96	-156.43	-183.43	-136.05
		-84.02	-112.95	-143.58	-155.43	9999.00	95.44	-83.46	-83.46	46.88	48.25	51.00	24.04	46.88	48.25	51.00	24.04
16	0	-68.03	-163.00	-175.81	-142.32	-155.13	9999.00	46.42	46.42	-25.91	-25.40	-28.46	-10.84	-25.91	-25.40	-28.46	-10.84
		33.91	37.17	27.82	-10.84	-24.89	-36.16	-31.01	-31.01	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		29.23	-30.50	104.04	65.74	-137.92	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
16	10	9999.00	99.75	95.44	104.04	99.75	100.61	95.87	95.87	99.75	104.04	99.75	-137.92	99.75	104.04	99.75	-137.92
		100.61	104.04	141.79	141.79	118.03	116.77	64.59	64.59	69.07	-175.81	-182.03	-90.24	69.07	-175.81	-182.03	-90.24
		-118.91	-175.12	91.10	91.10	82.36	77.95	-176.49	-176.49	88.05	9999.00	82.80	95.87	88.05	9999.00	82.80	95.87
16	10	82.36	82.36	93.27	92.41	82.36	77.95	104.04	104.04	91.54	141.79	152.02	9999.00	91.54	141.79	152.02	9999.00
		100.18	86.74	101.04	82.36	96.74	104.04	95.44	95.44	126.86	139.49	75.74	109.16	126.86	139.49	75.74	109.16
		73.52	99.75	23.09	9999.00	99.75	99.75	95.44	95.44	-100.00	-163.00	-189.09	-140.43	-100.00	-163.00	-189.09	-140.43
16	10	51.00	77.95	86.74	83.24	86.74	82.36	73.52	73.52	34.84	37.17	39.49	13.56	34.84	37.17	39.49	13.56
		98.49	86.74	82.36	83.24	86.74	82.36	73.52	73.52	34.84	37.17	39.49	13.56	34.84	37.17	39.49	13.56
		-87.40	-123.75	-150.60	-157.08	9999.00	73.52	-90.24	-90.24	-36.16	-36.16	-44.49	-23.37	-36.16	-36.16	-44.49	-23.37
16	10	-84.02	-167.57	-182.03	-148.04	-160.36	9999.00	44.49	44.49	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		23.09	27.82	15.48	-20.85	-34.10	-46.59	-44.49	-44.49	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		18.82	-41.35	101.90	64.59	-143.58	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-5414, EXP. II-C (1-27-55)
 TEST POINT NO. 6, VERTICAL + V FEARS, SOLAR OFF, LUNAR OFF,
 THERVA. DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TEMPERATURES - FAHRENHEIT

TIME	CHANNELS	9999.00	95.27	82.35	101.90	96.74	99.75	93.71	97.11/	101.90	99.75	-149.32
16 30	2- 12	9999.00	95.27	82.35	101.90	96.74	99.75	93.71	97.11/	101.90	99.75	-149.32
	13- 23	99.75	101.90	138.49	139.73	116.77	114.24	60.08	65.94	-183.43	-188.38	-95.96
	24- 29	-128.63	-182.03	85.87	84.56	86.74	84.56					
16 30	31- 41	79.23	79.28	92.41	92.41	33.91	29.23	-183.43	84.12	9999.00	37.17	95.44
	42- 52	95.44	77.95	95.44	73.52	95.44	100.61	100.18	88.93	129.78	138.08	9999.00
	53- 59	69.07	92.44	95.44	19.30	9999.00	95.44	91.54				
16 30	51- 71	37.17	64.59	82.35	77.95	96.74	93.27	91.10	112.55	125.19	73.52	104.90
	72- 82	79.23	82.36	78.40	79.72	82.36	74.86	-129.86	-107.60	-175.12	-196.20	-147.40
	83- 89	-93.65	-142.95	-162.34	-163.56	9999.00	28.76	-101.17				
16 30	91-101	-107.60	-174.44	-191.24	-157.08	-169.01	9999.00	13.56	13.56	15.00	18.34	-5.89
	102-112	3.91	4.88	-3.92	-39.79	-51.87	-66.42	-62.59	-57.20	-51.87	-57.20	-41.35
	113-120	-0.93	-60.97	9999.00	60.08	-150.60	9999.00	9999.00	9999.00	9999.00		
16 40	2- 12	9999.00	91.10	74.85	100.61	95.87	97.17	92.84	96.74	101.04	99.75	-150.60
	13- 23	97.60	101.47	137.67	139.49	116.77	114.24	60.08	64.59	-189.09	-191.24	-99.42
	24- 29	-131.71	-184.13	83.68	82.80	86.74	82.36					
16 40	31- 41	77.95	77.95	91.10	91.10	14.52	10.20	-189.09	82.36	9999.00	18.82	93.27
	42- 52	95.44	74.41	92.41	69.07	95.44	99.75	99.75	87.62	125.19	133.53	9999.00
	53- 59	66.33	95.44	95.44	18.34	9999.00	95.44	91.10				
16 40	51- 71	29.23	56.92	79.23	75.74	95.44	91.10	87.18	105.32	118.03	70.85	104.04
	72- 82	77.95	77.95	77.95	78.40	82.36	73.52	-134.81	-112.93	-177.18	-198.39	-149.96
	83- 89	-95.95	-150.60	-161.69	-167.67	9999.00	10.20	-101.75				
16 40	91-101	-119.51	-177.18	-191.24	-161.60	-170.36	9999.00	3.90	4.88	8.75	9.23	-14.82
	102-112	-5.89	-0.98	-10.84	-45.00	-57.20	-73.48	-71.84	-65.88	-60.97	-65.34	-49.75
	113-120	-9.53	-68.03	95.44	60.08	-155.78	9999.00	9999.00	9999.00			
17 0	2- 12	9999.00	85.74	65.04	97.60	95.44	95.44	92.41	95.44	100.18	96.30	-156.43
	13- 23	96.30	101.04	133.94	135.60	112.97	114.66	55.55	60.99	-191.24	-195.47	-101.75
	24- 29	-137.50	-189.09	79.72	78.40	82.36	78.40					
17 0	31- 41	73.52	73.52	88.49	88.49	-20.34	-20.34	-191.24	77.95	9999.00	-14.32	93.27
	42- 52	91.10	69.07	86.74	60.08	92.84	96.74	96.74	86.74	114.66	122.68	9999.00
	53- 59	65.04	92.84	95.44	15.00	9999.00	92.41	88.93				
17 0	51- 71	38.34	45.98	74.85	73.97	95.44	84.99	84.12	95.44	108.31	69.07	100.61
	72- 82	71.51	73.97	74.85	77.95	79.28	70.41	-136.67	-119.51	-188.38	-202.81	-153.83
	83- 89	-99.42	-163.00	-163.65	-169.60	9999.00	-19.84	-107.60				
17 0	91-101	-137.92	-181.34	-198.39	-167.00	-177.18	9999.00	-10.84	-10.84	-8.85	-5.89	-28.46
	102-112	-20.34	-12.52	-25.91	-57.20	-71.84	-84.58	-84.58	-78.44	-73.48	-77.88	-62.59
	113-120	-23.83	-73.99	91.97	56.46	-161.02	9999.00	9999.00	9999.00			
17 20	2- 12	9999.00	82.36	56.92	95.44	92.84	95.44	96.74	95.44	100.61	96.74	-161.02
	13- 23	98.03	104.04	130.62	133.53	112.55	122.26	55.55	60.08	-197.66	-198.39	-105.25
	24- 29	-140.43	-191.24	75.74	74.40	78.84	74.41					
17 20	31- 41	77.95	75.74	88.49	88.05	-51.87	-55.60	-196.20	74.41	9999.00	-41.35	96.74
	42- 52	86.74	62.94	82.35	51.45	91.54	95.44	95.44	82.36	108.31	113.82	9999.00
	53- 59	64.59	91.97	95.44	14.52	9999.00	91.97	91.10				
17 20	51- 71	8.75	33.57	73.52	74.46	95.44	82.36	82.36	84.56	99.75	69.07	100.61
	72- 82	70.41	69.96	73.52	78.40	79.28	70.41	-142.52	-125.57	-195.47	-205.78	-157.08
	83- 89	-101.75	-172.12	-170.36	-174.44	9999.00	-46.59	-112.33				
17 20	91-101	-155.73	-184.13	-203.55	-170.36	-182.03	9999.00	-24.89	-24.89	-20.85	-20.85	-40.83
	102-112	-31.01	-31.01	-36.15	-68.03	-82.34	-95.96	-95.96	-89.67	-84.58	-90.24	-73.48
	113-120	-36.15	-93.09	88.93	56.46	-162.34	9999.00	9999.00	9999.00			

APOLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 6, VERTICAL + V TEARS, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT															
17 40	2- 12	9999.00	78.84	51.00	91.54	91.54	95.44	97.17	91.97	100.18	95.87	-161.68					
	13- 23	98.45	104.04	127.28	129.37	112.55	122.68	52.82	60.08	-198.39	-204.29	-107.60					
17 40	24- 29	-143.58	-197.56	72.63	73.52	75.30	71.30										
	31- 41	77.95	77.95	88.49	88.05	-90.24	-94.23	-202.81	70.85	9999.00	-71.84	96.74					
	42- 52	84.12	64.59	77.95	45.42	91.10	93.27	95.44	82.36	99.75	106.18	9999.00					
17 40	53- 59	65.49	92.41	95.44	14.04	9999.00	91.97	91.10									
	51- 71	0.49	32.51	68.17	77.95	95.44	77.95	82.36	77.95	91.10	70.85	104.04					
	72- 82	70.41	66.83	73.97	80.60	79.72	69.96	-148.04	-131.71	-198.39	-211.03	-157.08					
17 40	83- 89	-101.75	-184.13	-175.81	-177.18	9999.00	-77.33	-113.52	-35.13	-35.13	-33.07	-51.87					
	91-101	-169.01	-189.38	-204.29	-175.81	-184.13	9999.00	-36.16	-101.75	-95.96	-100.58	-84.02					
	102-112	-45.01	-40.83	-49.75	-78.99	-89.67	-107.01	-107.60	9999.00	9999.00							
	113-120	-46.59	-101.75	86.74	55.55	-157.67	9999.00	9999.00									
18 0	2- 12	9999.00	77.95	43.19	88.49	91.10	92.84	95.87	91.10	99.75	95.44	-167.67					
	13- 23	97.17	100.61	125.19	125.61	110.86	116.77	51.45	57.82	-205.04	-205.78	-109.37					
18 0	24- 29	-142.95	-202.07	69.07	69.07	73.52	69.07										
	31- 41	73.52	73.52	87.19	85.74	-129.86	-129.86	-205.04	67.75	9999.00	-101.17	95.44					
	42- 52	82.35	60.54	73.52	41.81	88.93	91.97	92.84	77.95	91.97	99.75	9999.00					
18 0	53- 59	64.59	91.97	93.27	13.56	9999.00	91.10	88.93									
	51- 71	-5.89	25.46	64.59	77.95	95.44	75.30	80.16	69.96	83.24	70.85	104.04					
	72- 82	69.07	64.59	73.52	80.16	78.84	69.07	-150.60	-137.30	-205.78	-213.30	-161.68					
18 0	83- 89	-105.25	-191.24	-179.25	-177.18	9999.00	-107.01	-118.31	-46.59	-46.59	-45.01	-62.59					
	91-101	-182.73	-191.24	-210.27	-177.18	-189.09	9999.00	-47.11	-111.74	-105.25	-107.60	-95.96					
	102-112	-56.13	-51.97	-60.43	-87.97	-101.17	-116.51	-118.31	9999.00	9999.00							
	113-120	-57.29	-112.93	86.74	55.55	-169.01	9999.00	9999.00									
18 20	2- 12	9999.00	75.30	37.64	85.74	88.93	91.54	95.44	91.10	97.60	92.84	-168.34					
	13- 23	95.44	99.75	121.00	122.58	109.16	110.01	51.00	56.46	-204.29	-210.27	-111.15					
18 20	24- 29	-144.22	-205.04	65.94	63.74	69.96	65.04										
	31- 41	73.52	73.52	86.74	86.74	-167.00	-161.68	-210.27	9999.00	9999.00	-129.86	95.44					
	42- 52	82.35	60.08	70.41	57.17	87.62	91.10	91.97	75.74	86.74	93.27	9999.00					
18 20	53- 59	62.34	91.10	91.10	13.56	9999.00	88.49	87.18									
	51- 71	-14.32	19.77	61.44	77.95	92.41	73.52	78.84	65.04	77.95	70.41	99.75					
	72- 82	64.59	60.08	73.52	79.28	77.95	66.83	-150.60	-141.69	-210.27	-217.11	-163.66					
18 20	83- 89	-107.60	-198.39	-182.03	-182.03	9999.00	-136.67	-119.51	-57.20	-57.20	-55.60	-71.84					
	91-101	-194.74	-191.24	-213.30	-181.54	-191.24	9999.00	-57.20	-119.51	-113.52	-118.31	-101.75					
	102-112	-66.42	-62.59	-70.20	-95.96	-107.60	-124.97	-125.57	9999.00	9999.00							
	113-120	-68.03	-119.51	83.68	53.28	-174.44	9999.00	9999.00									
18 40	2- 12	9999.00	73.52	32.51	82.36	87.18	91.10	95.44	87.18	95.87	91.10	-169.01					
	13- 23	95.44	99.75	116.77	121.00	108.31	105.32	48.71	55.55	-210.27	-213.30	-112.33					
18 40	24- 29	-149.95	-203.55	64.59	61.89	69.07	61.89										
	31- 41	73.52	73.52	84.56	83.58	-197.66	-191.24	-212.54	61.44	9999.00	-156.43	93.27					
	42- 52	79.23	57.37	69.07	52.98	86.74	88.93	91.10	73.52	82.36	88.05	9999.00					
18 40	53- 59	60.54	88.49	91.10	10.20	9999.00	86.74	86.74									
	51- 71	-19.84	14.52	60.08	75.30	91.10	70.85	77.95	60.08	73.52	69.52	96.30					
	72- 82	60.99	57.37	73.52	78.40	74.86	65.04	-155.13	-144.22	-213.30	-219.42	-163.66					
18 40	83- 89	-107.60	-205.04	-184.13	-184.13	9999.00	-157.08	-119.51	-68.03	-68.03	-66.42	-78.99					
	91-101	-197.65	-196.20	-212.54	-184.13	-191.24	9999.00	-66.96	-125.57	-119.51	-125.57	-112.33					
	102-112	-73.48	-73.48	-77.88	-101.75	-113.52	-131.71	-131.71	9999.00	9999.00							
	113-120	-77.89	-129.25	82.36	51.45	-175.81	9999.00	9999.00									

APU-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-C (11-27-65)
 TEST POINT NO. 6, VERTICAL + V TEARS, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
19 0	2-12	9999.07	71.30	27.82	79.28	86.74	88.49	92.84	86.74	95.44	91.10	-170.36	
	13-23	92.84	95.30	112.97	115.77	105.32	104.04	47.33	55.55	-211.78	-213.30	-113.52	
19 0	24-29	-150.60	-202.78	60.08	60.08	64.59	60.08	-213.30	58.28	9999.00	-175.61	92.84	
	31-41	74.85	73.97	84.55	84.12	-220.19	-213.30	91.10	73.52	76.19	83.68	9999.00	
	42-52	77.95	56.46	65.04	30.17	84.56	88.05	83.68	55.55	69.07	69.07	93.27	
19 0	53-59	60.03	86.74	87.62	9.23	9999.00	84.56	77.95	55.55	-213.30	-220.97	-167.00	
	61-71	-24.39	10.20	55.55	73.97	88.49	69.07	77.95	-149.32	-213.30	-220.97	-167.00	
	72-82	57.82	53.55	70.85	77.95	73.52	64.59	-155.79	-78.44	-77.33	-75.68	-89.10	
19 0	83-89	-110.53	-202.78	-184.13	-184.13	9999.00	-175.12	-123.14	-135.43	-128.63	-134.18	-119.51	
	91-101	-205.73	-197.66	-217.11	-185.25	-195.47	9999.00	-77.33	-141.06	-135.43	-134.18	-119.51	
	102-112	-84.02	-82.34	-87.40	-110.53	-123.75	-137.92	-141.06	9999.00	9999.00	9999.00	9999.00	
	113-120	-84.13	-135.05	80.60	51.00	-175.81	9999.00	9999.00	84.56	95.44	88.93	-174.44	
19 20	2-12	9999.00	69.07	23.57	76.53	84.56	87.62	92.41	53.28	-213.30	-213.30	-115.91	
	13-23	91.17	93.44	109.58	112.55	104.04	99.75	46.88	55.55	9999.00	-189.09	91.97	
19 20	24-29	-150.60	-202.78	57.37	56.92	64.59	56.46	-213.30	55.55	9999.00	-189.09	91.97	
	31-41	73.52	73.52	83.69	83.68	-236.83	-235.21	88.05	69.96	73.52	79.28	9999.00	
	42-52	77.95	55.55	64.59	27.82	83.24	86.74	88.05	51.00	64.59	69.07	91.10	
19 20	53-59	60.03	86.74	86.74	9.75	9999.00	82.80	82.36	-150.60	-220.19	-220.97	-168.34	
	61-71	-29.48	5.85	52.82	73.52	86.74	66.83	74.86	51.00	64.59	69.07	91.10	
	72-82	55.55	51.45	69.95	77.95	73.52	61.89	-157.09	-84.58	-84.58	-84.58	-95.96	
19 20	83-89	-112.33	-211.03	-188.33	-184.13	9999.00	-189.80	-124.36	-142.32	-131.71	-137.92	-125.57	
	91-101	-212.54	-193.39	-218.65	-184.13	-198.39	9999.00	-84.58	9999.00	9999.00	9999.00	9999.00	
	102-112	-90.24	-89.10	-95.38	-117.71	-129.25	-144.22	-147.40	82.80	92.41	87.62	-175.81	
	113-120	-94.81	-142.32	79.28	48.25	-177.18	9999.00	9999.00	51.91	-213.30	-213.30	-117.11	
19 40	2-12	9999.00	69.07	19.77	73.97	82.80	86.74	91.10	82.80	92.41	87.62	-175.81	
	13-23	91.10	93.27	108.31	110.01	101.04	96.30	46.42	51.91	-213.30	-213.30	-117.11	
19 40	24-29	-153.83	-202.78	55.55	55.55	60.54	55.55	-213.30	53.28	9999.00	-203.55	91.10	
	31-41	73.52	73.52	82.36	82.36	-251.85	-251.85	86.74	69.07	69.07	75.74	9999.00	
	42-52	75.74	55.55	60.99	24.99	82.36	86.74	86.74	53.28	9999.00	-203.55	91.10	
19 40	53-59	56.45	86.74	86.74	9.75	9999.00	82.36	82.36	69.07	69.07	75.74	9999.00	
	61-71	-33.58	3.90	51.00	73.52	96.74	65.49	73.52	46.42	60.54	66.38	87.18	
	72-82	51.91	51.00	69.07	77.95	70.41	60.54	-157.08	-155.78	-220.97	-220.97	-169.68	
19 40	83-89	-113.52	-211.78	-189.09	-184.13	9999.00	-197.66	-125.57	-94.23	-94.23	-90.24	-101.75	
	91-101	-211.73	-193.39	-220.19	-189.19	-196.93	9999.00	-95.38	-144.22	-137.92	-144.22	-130.48	
	102-112	-100.00	-92.96	-101.75	-123.75	-135.43	-150.60	-149.96	9999.00	9999.00	9999.00	9999.00	
	113-120	-101.75	-148.04	77.95	46.42	-177.18	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EX3, II-C (1-27-65)
 TEST POINT NO. 6, VERTICAL + V TEARS, SOLAR OFF, LUNAR OFF,
 THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
15 16	B01-B11	9999.00	9999.00	81.00	9999.10	9999.00	99.00	100.00	104.00	104.00	105.00	108.00	
	B12-B22	124.00	110.00	122.00	103.10	106.00	100.00	100.00	99.00	109.00	108.00	125.00	
	B23-B24	128.00	-0.00										
15 18	B01-B11	9999.00	9999.00	81.00	9999.10	9999.00	99.00	100.00	104.00	104.00	105.00	108.00	
	B12-B22	124.00	110.00	121.00	103.10	106.00	100.00	100.00	98.00	109.00	108.00	125.00	
	B23-B24	122.00	-0.00										
15 20	B01-B11	9999.00	9999.00	81.00	9999.10	9999.00	99.00	100.00	104.00	104.00	105.00	108.00	
	B12-B22	124.00	111.00	122.00	103.10	106.00	100.00	100.00	99.00	109.00	108.00	125.00	
	B23-B24	117.00	-0.00										
15 30	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	100.00	100.00	105.00	105.00	106.00	108.00	
	B12-B22	123.00	110.00	121.00	103.10	106.00	100.00	101.00	99.00	109.00	108.00	124.00	
	B23-B24	106.00	-0.00										
15 40	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	99.00	99.00	104.00	104.00	105.00	107.00	
	B12-B22	123.00	107.00	121.00	103.10	105.00	100.00	101.00	99.00	109.00	108.00	123.00	
	B23-B24	101.00	-0.00										
15 50	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	99.00	98.00	102.00	103.00	103.00	106.00	
	B12-B22	121.00	108.00	120.00	102.10	104.00	100.00	101.00	99.00	107.00	107.00	121.00	
	B23-B24	98.00	-0.00										
16 0	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	98.00	98.00	101.00	102.00	102.00	105.00	
	B12-B22	120.00	106.00	119.00	101.10	103.00	99.00	100.00	98.00	106.00	106.00	121.00	
	B23-B24	96.00	-0.00										
16 10	B01-B11	9999.00	9999.00	83.00	9999.10	9999.00	96.00	95.00	101.00	101.00	100.00	105.00	
	B12-B22	118.00	105.00	117.00	100.10	100.00	98.00	100.00	98.00	106.00	105.00	119.00	
	B23-B24	93.00	-0.00										
16 20	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	95.00	94.00	100.00	100.00	99.00	103.00	
	B12-B22	117.00	104.00	115.00	99.10	99.00	98.00	100.00	97.00	105.00	105.00	117.00	
	B23-B24	91.00	-0.00										
16 30	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	94.00	93.00	98.00	99.00	97.00	102.00	
	B12-B22	115.00	103.00	114.00	98.10	98.00	97.00	99.00	97.00	104.00	104.00	116.00	
	B23-B24	89.00	-0.00										
16 40	B01-B11	9999.00	9999.00	81.00	9999.10	9999.00	94.00	93.00	97.00	98.00	96.00	103.00	
	B12-B22	116.00	103.00	114.00	97.10	97.00	97.00	99.00	96.00	104.00	104.00	116.00	
	B23-B24	87.00	-0.00										
16 50	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	94.00	92.00	96.00	97.00	96.00	102.00	
	B12-B22	116.00	102.00	114.00	97.10	97.00	96.00	99.00	96.00	103.00	103.00	116.00	
	B23-B24	86.00	-0.00										
17 0	B01-B11	9999.00	9999.00	82.00	9999.10	9999.00	94.00	92.00	96.00	96.00	95.00	102.00	
	B12-B22	116.00	102.00	115.00	97.10	96.00	95.00	98.00	95.00	103.00	104.00	117.00	
	B23-B24	86.00	-0.00										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. 11-C (1-27-55)
 TEST POINT NO. 6, VERTICAL + V TEARS, SOLAR OFF, LUNAR OFF,
 THERM. DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME CHANNELS		TEMPERATURES - FAHRENHEIT											
17 10	801-811	9999.00	9999.00	81.00	9999.00	9999.00	96.00	95.00	96.00	97.00	97.00	103.00	
	812-822	116.00	103.00	115.00	99.00	98.00	96.00	99.00	96.00	104.00	104.00	121.00	
	823-824	86.00	-0.00										
17 20	801-811	9999.00	9999.00	81.00	9999.00	9999.00	98.00	97.00	96.00	97.00	98.00	104.00	
	812-822	125.00	104.00	124.00	100.00	100.00	96.00	100.00	96.00	105.00	105.00	125.00	
	823-824	86.00	-0.00										
17 30	801-811	9999.00	9999.00	81.00	9999.00	9999.00	99.00	97.00	96.00	96.00	99.00	104.00	
	812-822	126.00	105.00	126.00	101.00	101.00	96.00	100.00	97.00	106.00	106.00	127.00	
	823-824	86.00	-0.00										
17 40	801-811	9999.00	9999.00	81.00	9999.00	9999.00	98.00	97.00	95.00	96.00	97.00	104.00	
	812-822	126.00	104.00	124.00	99.00	99.00	95.00	99.00	96.00	105.00	105.00	126.00	
	823-824	86.00	-0.00										
17 45	801-811	9999.00	9999.00	80.00	9999.00	9999.00	98.00	97.00	94.00	94.00	97.00	104.00	
	812-822	124.00	103.00	123.00	98.00	98.00	94.00	99.00	95.00	105.00	105.00	125.00	
	823-824	86.00	-0.00										
17 54	801-811	9999.00	9999.00	83.00	9999.00	9999.00	100.00	100.00	96.00	97.00	99.00	105.00	
	812-822	123.00	105.00	122.00	101.00	101.00	97.00	101.00	98.00	96.00	97.00	125.00	
	823-824	89.00	-0.00										
18 0	801-811	9999.00	9999.00	83.00	9999.00	9999.00	100.00	100.00	95.00	97.00	99.00	105.00	
	812-822	120.00	104.00	120.00	101.00	101.00	96.00	101.00	98.00	106.00	106.00	122.00	
	823-824	89.00	-0.00										
18 10	801-811	9999.00	9999.00	83.00	9999.00	9999.00	99.00	99.00	95.00	96.00	98.00	103.00	
	812-822	117.00	102.00	115.00	100.00	100.00	95.00	100.00	96.00	104.00	105.00	118.00	
	823-824	88.00	-0.00										
18 20	801-811	9999.00	9999.00	83.00	9999.00	9999.00	99.00	99.00	94.00	95.00	97.00	102.00	
	812-822	114.00	101.00	113.00	99.00	99.00	94.00	99.00	96.00	102.00	103.00	116.00	
	823-824	88.00	-0.00										
18 30	801-811	9999.00	9999.00	83.00	9999.00	9999.00	98.00	98.00	93.00	94.00	96.00	101.00	
	812-822	112.00	100.00	110.00	98.00	98.00	94.00	99.00	95.00	101.00	103.00	113.00	
	823-824	87.00	-0.00										
18 40	801-811	9999.00	9999.00	83.00	9999.00	9999.00	98.00	97.00	93.00	94.00	96.00	100.00	
	812-822	110.00	100.00	108.00	97.00	97.00	93.00	98.00	94.00	100.00	101.00	111.00	
	823-824	86.00	-0.00										
18 50	801-811	9999.00	9999.00	83.00	9999.00	9999.00	98.00	97.00	92.00	93.00	95.00	100.00	
	812-822	109.00	99.00	107.00	97.00	97.00	93.00	97.00	94.00	100.00	101.00	109.00	
	823-824	86.00	-0.00										
19 0	801-811	9999.00	9999.00	83.00	9999.00	9999.00	97.00	96.00	92.00	92.00	94.00	99.00	
	812-822	107.00	98.00	105.00	96.00	96.00	93.00	97.00	94.00	99.00	100.00	107.00	
	823-824	85.00	-0.00										

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 6, VERTICAL + V TEARS, SOLAR OFF, LUNAR OFF,
 THERM. DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT											
19 10	B01-B11	999.00	999.00	83.00	999.00	999.00	97.00	97.00	92.00	93.00	94.00	99.00	
	B12-B22	106.00	97.00	104.00	96.00	93.00	97.00	97.00	94.00	99.00	100.00	106.00	
	B23-B24	85.00	-0.00										
19 20	B01-B11	999.00	999.00	83.00	999.00	999.00	96.00	96.00	91.00	91.00	93.00	98.00	
	B12-B22	104.00	96.00	102.00	95.00	91.00	96.00	96.00	93.00	97.00	98.00	104.00	
	B23-B24	85.00	-0.00										
19 30	B01-B11	999.00	999.00	83.00	999.00	999.00	95.00	95.00	90.00	91.00	92.00	96.00	
	B12-B22	102.00	95.00	100.00	94.00	94.00	95.00	95.00	92.00	96.00	98.00	103.00	
	B23-B24	84.00	-0.00										
19 40	B01-B11	999.00	999.00	83.00	999.00	999.00	95.00	95.00	90.00	90.00	91.00	96.00	
	B12-B22	101.00	95.00	99.00	93.00	93.00	94.00	94.00	91.00	96.00	97.00	101.00	
	B23-B24	83.00	-0.00										

APOLLO EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 VAS 9-3414, EXP. II-C (1-27-67)
 TEST POINT NO. 7, VERTICAL + V TEARS, SOLAR ON, FACING SOLAR,
 LUNAR JET, THERMAL DUMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	C CHANNELS	TEMPERATURES - FAHRENHEIT
19 56	2- 12	9999.00 65.94 18.34 72.19 82.36 86.74 91.10 82.36 91.54 86.74 60.08
	13- 23	91.10 104.04 108.31 99.75 95.44 95.44 73.52 78.84 204.29 -205.04 116.35
19 56	24- 29	158.11 -196.93 52.82 52.37 60.08 51.45
	31- 41	78.40 77.95 82.80 82.30 -259.67 -260.55 -205.78 51.00 9999.00 -182.73 91.10
	42- 52	74.41 55.55 60.08 23.09 80.16 84.12 86.74 66.83 65.04 73.52 9999.00
	53- 59	92.41 83.58 86.74 133.53 9999.00 82.36 84.12
19 56	51- 71	-36.15 -0.98 51.00 73.52 86.74 65.04 73.52 42.73 60.08 65.49 86.74
	72- 82	51.00 46.88 69.07 75.30 82.36 66.83 69.52 -149.32 -50.81 -211.03 -156.43
	83- 89	138.90 -198.39 96.30 60.08 9999.00 -169.01 -78.99
19 56	91-101	-182.73 -170.36 -198.39 141.79 116.77 9999.00 -40.83 -41.35 -46.59 -50.28 -0.98
	102-112	-25.91 -31.01 -0.98 69.07 82.36 52.37 37.17 41.81 46.42 41.81 37.17
	113-120	-10.84 38.57 77.95 112.55 121.00 9999.00 9999.00
19 58	2- 12	9999.00 65.94 18.34 71.74 82.36 86.74 91.10 82.36 91.54 86.74 65.04
	13- 23	91.10 104.04 108.31 99.75 95.44 95.44 75.74 82.36 202.81 -205.04 118.45
19 58	24- 29	162.15 -198.39 52.37 51.91 60.08 51.45
	31- 41	78.84 78.40 83.24 82.80 -259.67 -259.67 -203.55 51.00 9999.00 -177.18 91.10
	42- 52	74.41 55.55 60.08 23.09 80.16 84.12 86.74 66.83 64.59 73.52 9999.00
	53- 59	95.87 83.58 86.74 157.67 9999.00 82.36 86.74
19 58	51- 71	-36.15 -0.98 47.79 73.52 86.74 65.94 73.52 42.27 60.08 65.49 87.18
	72- 82	51.00 46.42 69.07 74.86 86.74 69.52 74.41 -144.22 -46.59 -211.78 -155.13
	83- 89	141.79 -198.39 99.75 60.08 9999.00 -169.01 -68.03
19 58	91-101	-183.43 -170.36 -197.66 142.51 116.77 9999.00 -31.01 -31.01 -38.75 -41.35 3.90
	102-112	-19.34 -20.85 5.35 71.30 86.74 55.55 41.81 44.12 51.00 41.81 41.81
	113-120	-0.93 41.81 77.95 121.00 125.19 9999.00 9999.00
20 0	2- 12	9999.00 65.94 18.34 71.70 82.36 86.74 91.10 82.36 91.10 86.74 69.07
	13- 23	91.10 104.04 108.31 99.75 95.44 95.44 77.95 83.68 -198.39 -203.55 121.00
20 0	24- 29	162.15 -196.20 52.37 51.91 60.08 51.00
	31- 41	79.28 77.95 83.24 82.80 -259.67 -259.67 -202.81 51.00 9999.00 -175.12 91.10
	42- 52	74.41 55.55 60.08 23.09 82.36 84.12 86.74 66.83 65.49 73.52 9999.00
	53- 59	99.75 84.56 87.62 142.51 9999.00 82.36 87.62
20 0	51- 71	-36.15 -0.49 47.79 71.74 88.05 69.07 74.86 42.73 60.08 65.04 91.10
	72- 82	51.00 45.42 67.28 74.86 87.62 73.52 79.28 -148.04 -46.59 -211.03 -153.18
	83- 89	142.61 -196.93 99.75 60.08 9999.00 -168.34 -57.74
20 0	91-101	-190.64 -169.58 -196.93 145.89 118.03 9999.00 -23.88 -23.88 -29.48 -31.01 10.68
	102-112	-10.34 -14.32 13.55 74.36 87.62 56.92 42.73 47.33 52.37 46.42 43.19
	113-120	4.59 43.65 77.95 125.19 125.161 9999.00 9999.00
20 2	2- 12	9999.00 65.94 18.34 71.30 82.36 86.74 91.10 82.36 91.10 86.74 70.41
	13- 23	88.93 92.41 104.04 108.31 99.75 95.44 95.44 78.40 -198.39 -203.55 122.26
20 2	24- 29	165.77 -195.47 52.37 51.91 60.08 51.00
	31- 41	79.23 78.40 83.68 83.24 -258.79 -260.55 -212.07 51.00 9999.00 -174.44 90.23
	42- 52	74.85 56.01 60.08 23.09 80.16 84.12 86.74 66.83 64.59 71.74 9999.00
	53- 59	101.04 86.74 88.93 145.89 9999.00 82.80 88.93
20 2	51- 71	-36.15 0.00 47.79 73.52 91.10 69.07 74.86 42.73 60.08 65.49 91.10
	72- 82	48.25 46.42 69.07 74.86 91.10 75.74 82.80 -143.58 -46.59 -211.03 -150.60
	83- 89	143.43 -195.20 100.18 60.54 9999.00 -167.67 -49.75
20 2	91-101	-175.81 -163.34 -196.93 147.12 121.00 9999.00 -15.82 -15.82 -20.85 -24.89 18.34
	102-112	-0.99 -5.89 18.82 77.95 91.10 60.08 46.42 51.00 55.55 47.33 46.88
	113-120	10.69 46.42 77.95 129.37 129.37 9999.00 9999.00

APO-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 7, VERTICAL + V TEARS, SOLAR ON, FACING SOLAR,
 LUNAR OFF, THERMAL DUMPY HEATERS OFF, RELIEF VALVE CLOSED

TIME	C-CHANNELS	TEMPERATURES - FAHRENHEIT														
20	4	9999.00	65.94	18.34	70.95	82.36	86.74	91.10	82.36	91.54	86.74	73.52	82.36	91.10	86.74	73.52
		91.10	91.97	104.04	109.31	99.75	95.44	79.28	86.74	-196.93	-202.81	123.94	86.74	79.28	86.74	123.94
20	4	166.17	-191.24	51.91	51.45	60.08	51.00	-202.07	51.00	9999.00	-170.36	91.10	51.00	9999.00	73.52	9999.00
		79.23	78.84	83.24	83.58	-258.79	-260.55	87.18	-260.55	64.59	-170.36	91.10	66.38	87.18	73.52	9999.00
20	4	74.85	56.46	60.09	23.99	79.72	84.12	91.10	84.12	91.10	84.12	92.84	91.10	91.10	64.59	92.84
		104.04	86.74	91.10	149.57	9999.00	70.85	77.95	70.85	60.08	64.59	92.84	-144.22	77.95	-205.04	-150.60
20	4	-36.15	0.49	47.79	71.30	91.54	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74
		47.79	46.42	69.07	74.46	92.41	78.84	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74
20	4	145.89	-190.52	101.04	61.44	9999.00	-163.00	-43.44	9999.00	-14.82	-15.82	23.09	-10.84	-9.35	-15.82	23.09
		-175.12	-168.34	-197.65	147.34	121.00	9999.00	9.35	9999.00	56.92	51.00	51.00	51.91	46.88	51.00	51.00
20	4	3.90	-0.49	23.57	80.16	91.54	60.99	46.88	60.99	56.92	51.00	51.00	51.91	46.88	51.00	51.00
		18.34	47.79	77.95	153.53	129.37	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
20	6	9999.00	65.94	18.34	70.85	82.36	86.74	91.10	82.36	91.10	86.74	75.74	82.36	91.10	86.74	75.74
		91.10	91.97	104.04	106.18	99.75	93.27	82.36	86.74	91.10	86.74	125.61	82.36	91.10	86.74	125.61
20	6	168.98	-194.74	51.91	51.00	60.08	51.00	-198.39	-260.55	9999.00	-170.36	91.10	60.08	9999.00	73.52	9999.00
		79.72	78.84	84.12	83.48	-257.91	-260.55	87.18	-260.55	65.04	-170.36	91.10	66.38	87.18	73.52	9999.00
20	6	74.85	60.08	60.09	23.99	79.72	84.56	91.97	84.56	91.97	84.56	95.44	91.97	91.97	64.59	95.44
		108.31	87.18	91.54	154.05	9999.00	73.52	77.95	73.52	60.08	64.59	95.44	-144.22	77.95	-205.04	-150.60
20	6	-36.15	3.90	47.33	73.52	95.44	86.74	91.10	86.74	91.10	86.74	86.74	86.74	91.10	86.74	86.74
		46.88	46.42	69.07	74.41	96.30	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74	86.74
20	6	145.89	-190.52	104.04	64.59	9999.00	-163.00	-34.61	9999.00	3.90	-4.90	32.51	3.90	-0.98	-4.90	32.51
		-175.81	-163.66	-196.93	149.57	121.00	9999.00	3.90	9999.00	56.01	60.99	55.55	56.01	60.99	55.55	55.55
20	6	15.00	11.16	33.44	84.12	95.44	64.59	51.00	64.59	56.01	60.99	55.55	56.01	60.99	55.55	55.55
		27.82	51.45	77.95	158.08	129.37	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
20	8	9999.00	65.94	18.34	70.41	82.36	86.74	91.10	82.36	91.10	86.74	77.95	82.36	91.10	86.74	77.95
		91.10	91.97	104.04	105.75	99.75	92.84	82.36	86.74	91.10	86.74	126.03	82.36	91.10	86.74	126.03
20	8	170.13	-191.24	51.00	51.00	60.08	51.00	-198.39	-259.67	9999.00	-169.68	91.10	60.08	9999.00	73.52	9999.00
		79.23	78.40	86.74	83.24	-258.79	-259.67	87.62	-259.67	65.04	-169.68	91.10	66.38	87.62	73.52	9999.00
20	8	75.30	60.08	60.09	23.99	79.72	84.56	95.44	84.56	95.44	84.56	95.44	95.44	95.44	64.59	96.74
		108.31	88.05	92.41	155.49	9999.00	88.05	77.95	88.05	60.08	64.59	96.74	-143.58	77.95	-205.04	-150.60
20	8	-36.15	3.90	46.88	71.30	95.44	75.30	91.10	75.30	60.08	64.59	96.74	46.42	60.08	64.59	96.74
		46.88	46.42	67.28	74.41	99.75	86.74	91.10	86.74	60.08	64.59	96.74	-143.58	60.08	64.59	96.74
20	8	146.71	-191.24	104.04	64.59	9999.00	-162.34	-31.01	9999.00	8.75	0.49	37.17	8.75	3.90	0.49	37.17
		-169.68	-163.66	-196.20	153.24	121.42	9999.00	8.75	9999.00	64.59	55.55	57.37	64.59	64.59	55.55	57.37
20	8	19.77	18.34	37.17	86.74	96.74	65.49	52.82	65.49	64.59	55.55	57.37	64.59	64.59	55.55	57.37
		32.51	55.55	77.95	141.79	130.20	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
20	10	9999.00	65.94	18.34	70.41	82.36	86.74	91.10	82.36	91.10	86.74	77.95	82.36	91.10	86.74	77.95
		88.93	91.97	101.90	105.32	99.75	92.84	82.36	86.74	91.10	86.74	126.45	82.36	91.10	86.74	126.45
20	10	170.13	-191.24	51.00	51.00	60.08	51.00	-198.39	-258.79	9999.00	-169.01	91.10	60.08	9999.00	73.52	9999.00
		79.23	78.40	84.12	83.68	-258.79	-260.55	87.18	-258.79	65.04	-169.01	91.10	66.38	87.18	73.52	9999.00
20	10	75.30	60.08	60.09	23.99	79.72	84.56	95.44	84.56	95.44	84.56	95.44	95.44	95.44	64.59	96.74
		108.31	88.05	92.41	157.50	9999.00	88.05	77.95	88.05	60.08	64.59	96.74	-142.95	77.95	-205.04	-150.60
20	10	-36.15	4.88	46.88	70.55	96.30	77.95	91.10	77.95	60.08	64.59	96.74	46.42	60.08	64.59	96.74
		46.42	46.42	67.28	74.41	99.75	86.74	91.10	86.74	60.08	64.59	96.74	-142.95	60.08	64.59	96.74
20	10	146.32	-191.24	104.04	64.59	9999.00	-162.34	-25.91	9999.00	13.56	5.36	41.81	13.56	8.75	5.36	41.81
		-169.68	-163.66	-196.93	152.93	121.42	9999.00	13.56	9999.00	60.08	64.59	60.08	60.08	64.59	60.08	60.08
20	10	24.04	20.25	41.81	88.05	99.75	66.38	55.55	66.38	64.59	55.55	60.08	64.59	64.59	55.55	60.08
		37.17	55.55	77.95	141.79	130.62	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00

A30-L3 EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (11-27-65)
 TEST POINT NO. 7, VERTICAL + V TEARS, SOLAR ON, FACING SOLAR,
 LUNAR OFF, THERMAL DJMYY HEATERS OFF, RELIEF VALVE CLOSED

TIME CHANNELS		TEMPERATURES - FAHRENHEIT														
20	20	2-12	9999.00	65.94	23.09	69.07	82.36	86.74	87.62	82.36	91.10	86.74	82.36	91.10	86.74	82.36
		13-23	87.19	91.10	99.75	104.04	99.75	91.54	86.74	91.10	-197.66	-198.39	91.10	-197.66	-198.39	82.36
20	20	24-29	170.13	-190.52	51.00	51.00	56.92	51.00	-198.39	51.00	9999.00	-163.66	51.00	9999.00	-163.66	86.74
		31-41	77.95	77.95	86.74	85.74	-259.67	-261.44	91.10	64.59	64.59	70.41	64.59	64.59	70.41	9999.00
		42-52	77.95	65.04	60.08	23.19	77.95	86.74	99.75	91.10	9999.00	99.75	91.10	9999.00	99.75	9999.00
20	20	53-59	112.55	91.97	95.44	161.34	9999.00	95.44	99.75	46.42	60.99	64.59	46.42	60.99	64.59	101.47
		61-71	-36.15	13.56	46.42	73.52	104.04	82.36	82.36	96.74	-43.96	-205.04	96.74	-43.96	-205.04	-150.60
		72-82	46.42	44.12	69.07	73.52	104.90	100.18	96.74	-19.34	33.91	28.29	33.91	32.51	28.29	57.82
		83-89	149.57	-191.24	104.47	64.59	9999.00	-161.68	37.17	64.59	69.07	65.04	64.59	69.07	65.04	69.52
20	20	91-101	-169.01	-163.66	-195.47	154.05	125.19	9999.00	64.59	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00
		102-112	46.42	41.81	60.08	96.30	104.04	73.52	64.59	64.59	73.52	65.04	64.59	73.52	65.04	69.52
		113-120	55.53	64.59	78.84	146.30	133.53	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00	9999.00

A20-LJ EXTRAVEHICULAR MOBILITY UNIT TEMPERATURES
 NAS 9-3414, EXP. II-C (1-27-65)
 TEST POINT NO. 7, VERTICAL + V TEARS, SOLAR ON, FACING SOLAR,
 LUNAR OFF, THERMAL DJMMY HEATERS OFF, RELIEF VALVE CLOSED

TIME	CHANNELS	TEMPERATURES - FAHRENHEIT										
19 48	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	94.00	94.00	89.00	90.00	90.00	95.00
	B12-B22	100.00	94.00	98.00	93.00	93.00	89.00	94.00	90.00	94.00	96.00	100.00
	B23-B24	83.00	9999.00									
19 50	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	95.00	95.00	89.00	90.00	90.00	96.00
	B12-B22	100.00	93.00	97.00	92.00	92.00	89.00	94.00	90.00	94.00	96.00	100.00
	B23-B24	89.00	9999.00									
19 52	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	95.00	94.00	89.00	90.00	90.00	95.00
	B12-B22	100.00	93.00	98.00	93.00	92.00	90.00	94.00	91.00	95.00	96.00	100.00
	B23-B24	91.00	9999.00									
19 54	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	95.00	95.00	89.00	90.00	90.00	95.00
	B12-B22	99.00	94.00	97.00	93.00	92.00	90.00	94.00	90.00	94.00	95.00	100.00
	B23-B24	95.00	9999.00									
19 56	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	95.00	94.00	89.00	90.00	90.00	95.00
	B12-B22	99.00	93.00	97.00	93.00	92.00	89.00	94.00	91.00	94.00	96.00	100.00
	B23-B24	98.00	9999.00									
19 58	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	95.00	94.00	89.00	90.00	90.00	95.00
	B12-B22	99.00	94.00	97.00	93.00	92.00	90.00	94.00	91.00	94.00	96.00	99.00
	B23-B24	99.00	9999.00									
20 0	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	95.00	94.00	90.00	90.00	91.00	95.00
	B12-B22	99.00	94.00	97.00	93.00	92.00	89.00	94.00	91.00	94.00	96.00	99.00
	B23-B24	100.00	9999.00									
20 4	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	94.00	93.00	88.00	89.00	90.00	95.00
	B12-B22	98.00	94.00	95.00	92.00	91.00	89.00	93.00	90.00	93.00	95.00	97.00
	B23-B24	101.00	9999.00									
20 8	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	94.00	94.00	89.00	89.00	90.00	95.00
	B12-B22	98.00	94.00	96.00	92.00	91.00	90.00	93.00	91.00	93.00	95.00	98.00
	B23-B24	103.00	9999.00									
20 12	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	95.00	94.00	89.00	89.00	90.00	94.00
	B12-B22	97.00	94.00	95.00	91.00	91.00	89.00	93.00	90.00	93.00	95.00	97.00
	B23-B24	103.00	9999.00									
20 16	B01-B11	9999.00	9999.00	83.00	9999.00	9999.00	93.00	92.00	88.00	88.00	88.00	95.00
	B12-B22	97.00	94.00	95.00	90.00	90.00	88.00	92.00	90.00	93.00	94.00	96.00
	B23-B24	103.00	9999.00									
20 20	B01-B11	9999.00	9999.00	81.00	9999.00	9999.00	91.00	89.00	87.00	87.00	87.00	94.00
	B12-B22	95.00	94.00	94.00	88.00	87.00	87.00	90.00	88.00	92.00	93.00	95.00
	B23-B24	102.00	9999.00									
20 22	B01-B11	9999.00	9999.00	82.00	9999.00	9999.00	91.00	90.00	88.00	88.00	88.00	95.00
	B12-B22	97.00	95.00	95.00	89.00	88.00	87.00	91.00	88.00	93.00	94.00	96.00
	B23-B24	101.00	9999.00									



APPENDIX F
MEASURED PRESSURE AND
GAS FLOWRATE DATA
EXPERIMENTS IIa, IIb, and IIc



APPENDIX F

MEASURED PRESSURE AND GAS FLOWRATE
DATA - EXPERIMENTS II-a, II-b AND II-c

The tables of this appendix present pressure and suit gas flow-rate data measured during Experiments II-a, II-b and II-c.

Table F I: Ionization gauge measurements of pressures external to and near the suit plus between the PGA and thermal garment.

Table F II: EMU suit gas (GO₂) flowrate data.

Table F III: Record of electrical power to the thermal dummy during Experiment II-a, Day No. 1, Test Point No. 1. Power was not supplied to the dummy heaters at any other time during the tests.

Table F IV: Record of suit inlet pressure, pressure in the helmet and pressure differential between the suit inlet and outlet.

TABLE FI
SUITS EXTERNAL PRESSURE SCAN
APOLLO EXTRAVEHICULAR MOBILITY UNIT
EXPERIMENT IIa, DAY NO. 1
DATE: 1-6-65 and 1-7-65
(PRESSURE - mm Hg)*

Page 1 of 2

TIME	P-1 MIDDLE CHEST	P-2 LOWER BACK	P-3 RIGHT WRIST	P-4 LEFT WRIST	P-5 HELMET	P-6 RIGHT LEG	REMARKS
1730	1 (-3)	5 (-3)	2 (-5)	5 (-4)	2.5(-5)	8 (-3)	P-4 Fluctuating
Start	II a						
1800	1 (-3)	3 (-3)	2 (-5)	2.1(-5)	2.4(-5)	9 (-3)	P-4 Steady
1830	9 (-4)	3 (-3)	2 (-5)	1.8(-5)	2 (-5)	4 (-3)	
1900	9 (-4)	3 (-3)	1.5(-5)	1.5(-5)	1.7(-5)	3 (-3)	
1930	9 (-4)	3 (-3)	1.7(-5)	1.7(-5)	2 (-5)	4 (-3)	
2000	1 (-3)	4 (-3)	3 (-4)	2.5(-4)	2.7(-4)	4 (-3)	
2030	8 (-4)	3 (-3)	1.5(-5)	2 (-5)	1.5(-5)	3 (-3)	
2100	8 (-4)	3 (-3)	1.5(-5)	1.8(-5)	1.8(-5)	3 (-3)	
2130	8 (-4)	3 (-3)	1.5(-5)	1.7(-5)	2 (-5)	3 (-3)	
2200	8 (-4)	3 (-3)	1.4(-5)	1.7(-5)	1.8(-5)	2 (-3)	
2230	8 (-4)	3 (-3)	1.3(-5)	1.5(-5)	1.7(-5)	2 (-3)	
2300	8 (-4)	3 (-3)	1.5(-5)	1.7(-5)	2 (-5)	2 (-3)	
2330	8 (-4)	3 (-3)	1.3(-5)	1.7(-5)	1.8(-5)	2 (-3)	
2400	7 (-4)	3 (-3)	1.2(-5)	1.6(-5)	1.7(-5)	2 (-3)	
0030	8 (-4)	3 (-3)	1.5(-5)	1.7(-5)	1.8(-5)	2 (-3)	
0100	8 (-4)	3 (-3)	1.5(-5)	1.8(-5)	1.9(-5)	2 (-3)	
0130	8 (-4)	3 (-3)	1.6(-5)	1.9(-5)	1.9(-5)	2 (-3)	
0200	8 (-4)	3 (-3)	1.6(-5)	2 (-5)	2 (-5)	2 (-3)	
0230	9 (-4)	3 (-3)	1.7(-5)	2 (-5)	2.1(-5)	2 (-3)	
0300	1 (-3)	5 (-3)	2 (-5)	2.2(-5)	2.2(-5)	3 (-3)	
0330	1 (-3)	5 (-3)	2 (-5)	2.3(-5)	2.3(-5)	4 (-3)	
0400	1 (-3)	6 (-3)	1.9(-5)	2.3(-5)	2.4(-5)	4.5(-3)	
0430	1 (-3)	6 (-3)	1.8(-5)	2.2(-5)	2.4(-5)	4 (-3)	
0500	1 (-3)	5 (-3)	1.8(-5)	2.1(-5)	2.3(-5)	4 (-3)	

* (x) denotes 10^x , i.e., 1.5 (-2) = 1.5×10^{-2}

TABLE FI (CONT'D)

SUIT EXTERNAL PRESSURE SCAN
 APOLLO EXTRAVEHICULAR MOBILITY UNIT
 EXPERIMENT IIa, DAY NO. 2
 DATE: 1-7-65 and 1-8-65
 (Pressure - mmHg)*

TIME	P-1 MIDDLE CHEST	P-2 LOWER BACK	P-3 RIGHT WRIST	P-4 LEFT WRIST	P-5 HELMET	P-6 RIGHT LEG	REMARKS
2100	2 (-3)	2.5 (-3)	3.5 (-4)	7 (-4)	3.5 (-4)	3 (-2)	
2130	2 (-3)	5 (-3)	3 (-5)	7 (-4)	3 (-5)	1 (-2)	
2200	1.5 (-3)	5 (-3)	2.7 (-5)	4 (-5)	4 (-5)	5 (-3)	
2230	1 (-3)	3 (-3)	2.2 (-5)	3.3 (-5)	3.3 (-5)	4.5 (-3)	
2300	1 (-3)	2 (-3)	2 (-5)	2.2 (-5)	2.5 (-5)	4 (-3)	
2330	1 (-3)	2 (-3)	2 (-5)	2.2 (-5)	2.5 (-5)	3 (-3)	
0000	1 (-3)	2 (-3)	2 (-5)	2.3 (-5)	2.6 (-5)	3 (-3)	
0030	1 (-3)	2 (-3)	2 (-5)	2.5 (-5)	2.5 (-5)	3 (-3)	
0100	1 (-3)	2 (-3)	2.2 (-5)	2.8 (-5)	3 (-5)	4 (-3)	
0130	1 (-3)	2 (-3)	2.5 (-5)	3 (-5)	3 (-5)	4 (-3)	
0150	1 (-3)	2 (-3)	2.4 (-5)	3 (-5)	3 (-5)	4 (-3)	
0200	1 (-3)	2 (-3)	2.6 (-5)	3 (-5)	3 (-5)	4 (-3)	
0230	1 (-3)	2 (-3)	2.8 (-5)	3.1 (-5)	3.2 (-5)	4 (-3)	
0300	1.5 (-3)	2 (-3)	2.8 (-5)	3.5 (-5)	3.2 (-5)	4.5 (-3)	
0330	1 (-3)	2.5 (-3)	3 (-5)	3.7 (-5)	3.6 (-5)	5 (-3)	
0400	1.5 (-3)	4 (-3)	3.2 (-5)	4.2 (-5)	4.2 (-5)	5 (-3)	
0430	1.5 (-3)	4 (-3)	3.2 (-5)	4.2 (-5)	4.1 (-5)	5 (-3)	
0439							Rotated 180° - No change
0500	2 (-3)	4 (-3)	3.8 (-5)	4.3 (-5)	4.3 (-5)	5 (-3)	Noted, P-5 monitored.
0530	2 (-3)	4.5 (-3)	3.8 (-5)	4.5 (-5)	4.5 (-5)	5 (-3)	
0540	2 (-3)	4.5 (-3)	3.8 (-5)	6.8 (-5)	4.5 (-5)	5 (-3)	90° rotation
0600	2 (-3)	5 (-3)	4 (-5)	7.2 (-5)	4.5 (-5)	7 (-3)	
0630	3 (-3)	5 (-3)	4 (-5)	7.3 (-5)	5 (-5)	8 (-3)	
0700	3 (-3)	5 (-3)	4.5 (-5)	7.5 (-5)	4.5 (-5)	8 (-3)	
0730	3 (-3)	5 (-3)	4.6 (-5)	8 (-5)	4.8 (-5)	8 (-3)	
0800	3 (-3)	5 (-3)	5 (-3)	8.5 (-5)	4.7 (-5)	8 (-3)	

* (x) denotes 10^x, i.e., 1.5 (-2) = 1.5 x 10⁻²

TABLE FI (CONT'D)

SUIT EXTERNAL PRESSURE SCAN
 APOLLO EXTRAVEHICULAR MOBILITY UNIT
 EXPERIMENT IIa, DAY NO. 2
 DATE: 1-7-65 and 1-8-65
 (Pressure - mmHg)*

TIME	P-1 MIDDLE CHEST	P-2 LOWER BACK	P-3 RIGHT WRIST	P-4 LEFT WRIST	P-5 HELMET	P-6 RIGHT LEG	REMARKS
0830	3 (-3)	5 (-3)	5 (-5)	9 (-5)	5 (-5)	9 (-3)	Rotate suit 90° - Press. Hot Space Craft Against Suit Prior to turning suit After turning suit Prior to touch by S/C Turned 180° (now facing back wall) Lamps off, suit circulation - 0
0850	3 (-3)	5 (-3)	4.8(-5)	9 (-5)	4.8(-5)	9 (-3)	
	3 (-3)	5 (-3)	4.8(-5)	5.5(-5)	4.8 (-5)	9 (-3)	
0900	3 (-3)	5 (-3)	4.7(-5)	5.5(-5)	5 (-5)	1 (-2)	
0930	2 (-3)	5 (-3)	4.3(-5)	5 (-5)	4 (-5)	9 (-3)	
0948	2 (-3)	5 (-3)	4.6(-5)	4 (-5)	4 (-5)	9 (-3)	
0950	2 (-3)	5 (-3)	4 (-5)	6.8(-5)	4.1(-5)	9 (-3)	
1000	2 (-3)	5 (-3)	3.8(-5)	6.8(-5)	4.1 (-5)	8 (-3)	
1030	2 (-3)	5 (-3)	3.8(-5)	6.8(-5)	4.1 (-5)	6 (-3)	
1100	2 (-3)	5 (-3)	3.8(-5)	6.8(-5)	4.2 (+5)	6 (-3)	
1105	2 (-3)	4 (-3)	3.8(-5)	4.6(-5)	4.2 (-5)	6 (-3)	
1130	2 (-3)	4 (-3)	3.1(-5)	4.2(-5)	4 (-5)	6 (-3)	
1200	2 (-3)	4 (-3)	2.1(-5)	3.8(-5)	3.6(-5)	5 (-3)	
1205	2 (-3)	4 (-3)	2.4(-5)	3.2(-5)	3.2(-5)	4 (-3)	

* (x) denotes 10^x, i.e., 1.5 (-2) = 1.5 x 10⁻²

TABLE FI (CONT'D)

SUIT EXTERNAL PRESSURE SCAN
 APOLLO EXTRAVEHICULAR MOBILITY UNIT
 EXPERIMENT II b
 DATE: 1-21-65
 (PRESSURE - mm Hg)*

TIME	P-1 MIDDLE CHEST	P-2 LOWER BACK				P-6 RIGHT LEG	REMARKS
0000	7.6(-4)	3 (-3)				3.5(-3)	Window leak
0030	7.4(-4)	3 (-3)				3.5(-3)	
0100	7.5(-4)	3 (-3)				3.5(-3)	
0130	7.9(-4)	3 (-3)				3.6(-3)	
0200	7.5(-4)	2 (-3)				4 (-3)	
0230	7.8(-4)	2 (-3)				3 (-3)	
0300	9 (-4)	3 (-3)				5 (-3)	
1120	8 (-4)					3 (-3)	
1140	9 (-4)					3 (-3)	
1200	9 (-4)					4 (-3)	

* (x) denotes 10^x, i.e., 1.5 (-2) = 1.5 x 10⁻²

TABLE FI (CONCLUDED)

SUIT EXTERNAL PRESSURE SCAN
APOLLO EXTRAVEHICULAR MOBILITY UNIT

EXPERIMENT IIc

DATE: 1-27-65

(PRESSURE - mm Hg)*

TIME	MIDDLE CHEST	LOWER BACK	RIGHT LEG	TIME	MIDDLE CHEST	LOWER BACK	RIGHT LEG
0835	2 (-2)	2 (-3)	1 (-2)	1350	7.5(-2)	1.1(-1)	
0856	2 (-2)	2 (-3)	6 (-3)	1355	7 (-2)	1.1(-1)	
0930	3 (-2)	2 (-3)	1 (-2)	1400		1 (-1)	
1000	2 (-2)	2 (-3)	1 (-2)	1430		1 (-1)	
1030	1 (-2)	2 (-3)	1 (-2)	1500		1 (-1)	
1100	1 (-2)	2 (-3)	1 (-2)	1600	7 (-3)	1 (-3)	5 (-3)
1130	1 (-2)	2 (-3)	1 (-2)	1630	1 (-2)	1 (-3)	3 (-3)
1200	1 (-2)	2 (-3)	7 (-3)	1700	1 (-2)	2 (-3)	3 (-3)
1215	5 (-2)	4 (-3)		1730	8 (-3)	1 (-3)	3 (-3)
1225		8 (-3)		1800	7 (-3)	1 (-3)	3 (-3)
1230		8 (-3)		1830	7 (-3)	1 (-3)	3 (-3)
1235		8 (-3)		1900	7 (-3)	1 (-3)	3 (-3)
1240		8 (-3)		1930	7 (-3)	1 (-3)	3 (-3)
1245		8 (-3)		1950	7 (-3)	1 (-3)	3 (-3)
1250		8 (-3)		2000	7 (-3)	1 (-3)	3 (-3)
1255		8 (-3)		2030	7 (-3)	1 (-3)	3 (-3)
1300		8 (-3)					
1305		8 (-3)					
1310		8 (-3)					
1315		8 (-3)					
1320		8 (-3)					
1325		8 (-3)					
1330	3 (-1)	8 (-3)					
1335	3 (-1)	1.4(-1)					
1340	7.5(-2)	1.1(-1)					
1345	7.5(-2)	1.1(-1)					

* (x) denotes 10^x , i.e., 1.5 (-2) = 1.5×10^{-2}

TABLE FII
 SUIT FLOW SYSTEM
 APOLLO EXTRAVEHICULAR MOBILITY UNIT
 EXPERIMENT IIA
 TEST DAY NO. 1 DATE: 1-6-65 and 1 7-65

ROTAMETER

ROTAMETER

TIME	PRESSURE PSIA	TEMP. OF	INDICATED FLOW SCFM	SUIT LEAKAGE SCCM	RELATIVE HUMIDITY %	TIME	PRESSURE PSIA	TEMP. OF	FLOW SCFM	SUIT LEAKAGE SCCM	RELATIVE HUMIDITY %
1800	3.78	82	5.14			0730	3.71	78	5.05		36
1830	3.70	82	5.10			0800	3.72	79	5.05		32
1900	3.70	82	5.14			0830	3.70	79	5.05		32
1930	3.75	81	5.15								
2030	3.65	81	5.25								
2100	3.65	81	5.25								
2130	3.72	81	5.20								
2200	3.70	80	5.15								
2300	3.70	79	5.20								
2330	3.62	79	5.20	45							
2400	3.70	80	5.10								
0030	3.69	80	5.05								
0100	3.69	79	5.06								
0130	3.68	80	5.07								
0200	3.70	79	5.09								
0230	3.71	79	5.07								
0300	3.71	78	5.06								
0330	3.72	79	5.06		43						
0400	3.71	78	5.08								
0430	3.72	78	5.07								
0500	3.72	78	5.05		42						
0530	3.72	78	5.07		44						
0545	3.72	78	5.05		44						
0600	3.72	78	5.06		41						
0630	3.72	78	5.06		35						
0700	3.71	79	5.06		39						

TABLE FII (CONT'D)

SUIT FLOW SYSTEM
 APOLLO EXTRAVEHICULAR MOBILITY UNIT
 EXPERIMENT IIa
 TEST DAY No. 2 DATE: 1-7-65 and 1-8-65

Rotameter						Rotameter					
Time	Pressure PSIA	Temp °F	Indicated Flow SCFM	Suit Leakage SCCM	Relative Humidity %	Time	Pressure PSIA	Temp °F	Flow SCFM	Suit Leakage SCCM	Relative Humidity %
2200	3.80	77	5.20			0950	3.72	79.6	5.21		
2230	3.50	77	5.24			1000	3.75	79.6	5.21		30
2300	3.41	77	5.20			1030	3.72	79.3	5.15		
2330	3.50	77.5	5.20			1050	3.71	79.6	5.12		
2400	3.45	77.5	5.15			1100	3.71	79.6	5.12		
0030	3.50	77.5	5.21		30	1130	3.71	79.6	5.12		
0100	3.65	78	5.19		29	1155	3.71	80.0	5.12		
0130	3.67	77	5.17		29						
0200	3.67	77.5	5.17		29						
0230	3.66	77	5.17		28						
0300	3.63	77	5.17		27						
0330	3.63	77	5.15		27						
0400	3.65	77	5.17		27						
0430	3.68	76	5.18		27						
0500	3.69	76	5.17		27						
0530	3.68	76	5.16		27						
0545	3.68	76	5.17								
0600	3.68	76.5	5.17		27						
0630	3.68	76.5	5.16								
0700	3.68	77.1	5.17		27						
0730	3.70	77	5.17		27						
0800	3.70	78	5.17		27						
0830	3.70	79	5.17		27						
0850	3.71	79	5.19		29						
0900	3.70	79	5.17		29						
0930	3.73	79.6	5.21								

TABLE FII (CONT'D)

SUIT FLOW SYSTEM
 APOLLO EXTRAVEHICULAR MOBILITY UNIT
 EXPERIMENT IIb

DATE: 1-21-65 and 1-22-65

ROTAMETER					ROTAMETER				
TIME	PRESSURE PSIA	TEMP. OF	INDICATED FLOW SCFM	SUIT LEAKAGE SCCM	TIME	PRESSURE PSIA	TEMP. OF	INDICATED FLOW SCFM	SUIT LEAKAGE SCCM
0000	3.7	76	5.5		1800	3.7	79.2	5.85	
0030	3.7	74	5.55		1830	3.7	79.2	5.82	
0100	3.7	74	5.63		1840	--	--	--	45
0130	3.6	76	5.55		1900	3.7	79.1	5.73	
0200	3.69	77.5	5.68		1930	3.7	73.5	5.70	
0230	3.69	76	5.80		1945	--	--	--	45
0250	--	--	--	40	2030	5.5	80	6.80	
0300	3.7	75.5	5.79		2100	5.52	80	6.60	
0330	3.7	77.	5.77		2130	5.52	80	6.60	
1045	3.7	75.5	5.8		2200	5.52	80	6.6	
1100	3.69	76	5.8		2230	5.52	81	6.62	
1115	3.69	76	5.75		2245	--	--	--	45
1135	3.69	76.2	5.75		2300	5.50	80	6.5	
1200	3.71	76.9	5.76		2330	5.48	79.5	6.5	
1230	3.71	77.5	5.73		2400	5.48	79.5	6.44	
1300	3.71	78	5.70		0030	5.56	79.5	6.49	
1330	3.71	78	5.82		0100	5.47	79.5	6.48	
1400	3.71	78.1	5.81		0130	5.48	79	6.50	
1430	3.70	78.8	5.76		0200	5.48	79	6.50	
1440	--	--	--	45					
1500	3.70	79.1	5.68						
1530	3.70	79	5.65						
1600	3.70	79.8	5.76						
1630	3.70	79.2	5.77						
1700	3.7	79.2	5.75						
1730	3.72	79.4	5.75						

TABLE FII (CONCLUDED)

SUIT FLOW SYSTEM
 APOLLO EXTRAVEHICULAR MOBILITY UNIT
 EXPERIMENT IIC DATE: 1-27-65

ROTAMETER

TIME	PRESSURE PSIA	TEMP. OF °F	INDICATED FLOW SCFM	SUIT LEAKAGE SCCM	REMARKS
0830	3.71	73.5	5.15		
0855	3.71	13.6	5.15		
0930	3.71	74.9	5.10		
1000	3.70	76.0	5.08		
1012	--	--	--	40	
1030	3.71	76.1	5.11		
1100	3.70	77.5	5.02		
1130	3.71	77.6	5.00		
1200	3.71	77.8	4.90		Started overpressure at 1214
1230	5.50	80.0	6.57		
1300	5.55	80.0	6.57		
1330	5.60	80.5	5.05		
1400	5.60	81.0	5.05		
1430	5.60	81.0	5.10		
1500	5.60	81.8	5.10		
1530	3.6	82	6.0		
1600	3.62	82.5	6.1		
1630	3.62	81.5	6.02		
1700	3.62	81.2	5.9		
1730	3.62	81	6.2		
1800	3.62	83.5	6.25		
1830	3.62	83.2	6.25		
1900	3.62	83	6.25		
1930	3.62	83	6.28		
2000	3.62	83.5	6.25		
2030	3.62	80	6.4		

TABLE FIV

SUIT PRESSURE DATA FOR
EXPERIMENTS IIa, IIb AND IIc

II-a, Day No. 1

	<u>Helmet (psia)</u>	<u>Suit-In (psia)</u>	<u>P (psid)</u>
Max.	4.60	4.80	.090
Nom.	3.65	3.80	.076
Min.	2.95	3.55	.069

II-a, Day No. 2

Max.	3.90	3.95	.080
Nom.	3.75	3.80	.080
Min.	3.30	3.72	.075

II-b, Test Points 1 thru 7
(No Suit Overpressure Applied)

Max.	3.70	3.74	.103
Nom.	3.55	3.70	.098
Min.	3.50	3.60	.085

II-b, Test Points 8 and 9
(Suit Overpressure Applied, Relief Valve Partially Open)

Max.	5.50	5.63	.148
Nom.	5.30	5.60	.123
Min.	5.18	5.40	.121

II-c
(No Overpressure Applied, Relief Valve Closed)

Max.	3.75	3.80	.080
Nom.	3.65	3.76	.078
Min.	3.55	3.73	.075

TABLE FIV (CONCLUDED)

Suit Pressure Data For
Experiments II-a, b, c. (cont'd)

	<u>Helmet</u> (psia)	<u>Suit-In</u> (psia) <u>II-c</u>	<u>P</u> (psid)
	(Overpressure Applied, Relief Valve Partially Open)		
Max.	5.35	5.74	.113
Nom.	5.35	5.68	.113
Min.	5.31	5.68	.110

		<u>II-c</u>	
	(Overpressure Applied, Relief Valve Open)		
Max.	5.35	5.72	.072
Nom.	5.25	5.68	.069
Min.	5.10	5.52	.069

		<u>II-c</u>	
	(No Overpressure Applied, Relief Valve Closed)		
Max.	3.65	3.72	.113
Nom.	3.55	3.72	.111
Min.	3.35	3.71	.102

REFERENCES

1. Drummond, A. J., "Examination of Spectral Energy Distribution of Mercury-Xenon Lamps," The Eppley Laboratory, Inc., 27 June 1962.
2. Johnson, E. S., "The Solar Constant," U. S. Naval Research Laboratory, Journal of Meteorology, Vol. II, No. 6, December 1954.
3. Poradek, J. C., "Measurement of Solar Reflectance and Transmittance on HT-1 Nylon and on Dacron Noncoated Fabrics," Report No. MSC-IN-64-EC 41-3, December 3, 1963 to January 15, 1964.
4. Kiess and Lassovzsky, The Known Physical Characteristics of the Moon and Planets, ARDC-TR-58-41, ASTIA Doc. No. AD 115-617, July 1958.
5. Goodnight, F. H., "Thermal Tests of a Prototype Gemini Extravehicular System," Report No. 00.478, LTV Astronautics Division, 6 August 1964.
6. Pearson, R. O., Mouritsen, T. E., and Goodnight, F. H., "Performance and Thermal Response of the Gemini Extravehicular Space Suit - Experiment I-b," Report No. 00.573, LTV Astronautics Division, 23 December 1964.
7. Latham, D. M. and Welsh, J. D., "Comparative Evaluation of Thermal Protective Materials for Space Suit Assemblies," LTV Astronautics Division Report No. 00.235, Contract NAS 9-1163, May 31, 1963.
8. Knezek and French, "Space Suit Thermal Test Program," Contract NAS 9-461, Report No. 00.79, Astronautics Division, 2 September 1962.
9. "Reference Guide for the Model A-4H Apollo Training Suit," Hamilton Standard Division of United Aircraft Corporation Report No. SS 7008, 1 September 1964.
10. Wilcox, Orland, W., "Technical Proposal No. 347-900," Sierra Engineering Company, May 26, 1964.
11. "Mechanical and Physical Properties of Some Plastics," Space/Aeronautics R and D Technical Handbook, 1962-1963.
12. E.R.G. Eckert and R. M. Drake, Jr., Heat and Mass Transfer, McGraw-Hill, New York, 1959.
13. A. K. Oppenheim, "Radiation Analysis by the Network Method," Trans. A.S.M.E. 78, 1956, pp. 725-735.
14. E. M. Sparrow, "On the Calculation of Radiant Interchange Between Surfaces".
15. "Thermal Network Analyzer Program," Lockheed Aircraft Corporation Technical Memorandum TM 59-24-1, Sunnyvale, California, April 28, 1961.

REFERENCES (Continued)

16. Krieth, Principles of Heat Transfer, Internation Textbook Company, Scranton, Pa., 1961.
17. "A General Computer Program for the Determination of Radiant Interchange Configuration Factors", ASD-TN-61-101, March 1963.