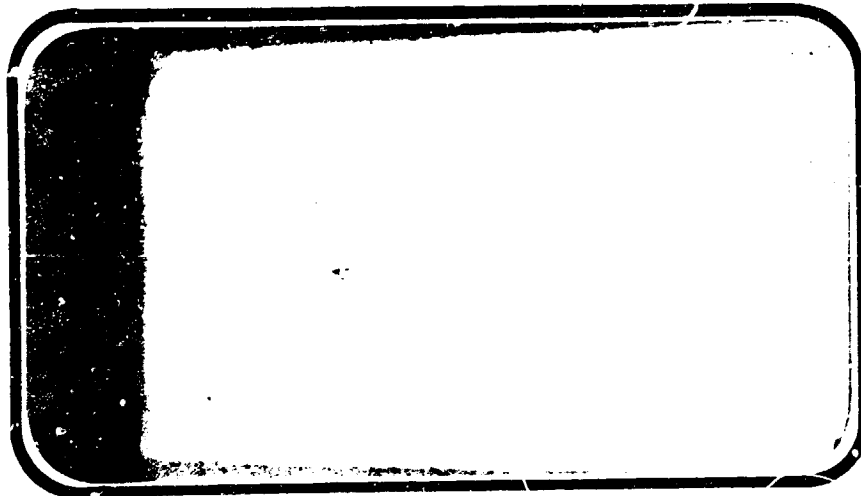




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THERMAL PROTECTION SYSTEM GAP HEATING
RATES OF THE ROCKWELL INTERNATIONAL
FLAT PLATE HEAT TRANSFER MODEL
(OH2A/OH2B)

By

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Prepared under NASA Contract Number NAS9-13247

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Houston, Texas

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ABSTRACT

This report presents heat transfer data for the Rockwell International Flat Plate Thermocouple Model. The model simulated the Space Shuttle Vehicle Thermal Protection System. Data were recorded for locations in and around various size gaps for various gap orientation configurations. The test was conducted at Mach 5.1 for free-stream Reynolds number per foot values from 0.5×10^6 to 1.5×10^6 .

* NASA Ames

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INTRODUCTION

The experimental investigation presented in this report was performed to obtain aerodynamic heating rate data in and around the gaps at the Thermal Protection System (TPS) block junctions. The wind tunnel model simulates the proposed TPS external surface of the shuttle orbiter. The thin skin stainless steel thermocouple model was used to provide a data base for heating rates of the various gap configurations. These variations consisted of the number of gaps, gap width, depth, spacing, intersection, edge misalignment, and orientation.

The test program was conducted in the Ames 3.5-Foot Hypersonic Wind Tunnel at a Mach number of 5.1 for free-stream Reynolds number/foot values from 0.5×10^6 to 1.5×10^6 . The model angle of attack, roll angle and yaw angle were 0° .

NOMENCLATURE

General

<u>Symbol</u>	<u>Description</u>
C	model material specific heat
c_p	specific heat of air stream (perfect gas value)
H	enthalpy
h	heat transfer coefficient
\dot{q}	heating rate
T	temperature
T/C	thermocouple
TPS	thermal protection system
t	time
W	model material density
α	angle of attack
β	angle of sideslip
ρ	air density
ϕ	roll angle

Subscripts

aw	adiabatic wall
i	initial value before model insertion into tunnel flow
PG	perfect gas (calorically and thermally perfect gas)
t	stagnation conditions

w wall
1 conditions upstream of shock
2 conditions downstream of shock

Model

b skin thickness
C model material specific heat
d gap depth
P.I.U. primary instrumentation unit (insert II), see
figure 4
s gap surface step
W model material density
w gap width

MODEL DESCRIPTION

The model is a 2-inch thick, 27-inch wide, 60-inch long flat stainless steel plate with a sharp 5° leading edge. Three total pressure and total temperature probes are located at 3 spanwise locations at the rear of the model. The basic flat plate is the structural carrier for 5 thermocouple (T/C) instrumented inserts simulating various TPS gap configurations. In addition to the thermocouple inserts there is 1 flat plate pressure insert. The inserts shown in figures 3 through 8 are described below:

<u>Insert</u>	<u>Description</u>
I	A smooth plate heat transfer insert with 3 rows of 25 thermocouples each for a total of 75.
II	A single transverse gap insert with the capability of varying the gap width from 0 to 0.2 inch. There are 3 gap depths of 0.4, 0.8 and 1.6 inches along the span of the gap with instrumentation modules located at the centerline of the 3 gap depth areas. A total of 90 thermocouples instrument this primary instrumentation unit (P.I.U.).
III	A multiple transverse gap insert capable of providing a total of 5 gaps with four 6-inch long modules instrumented with a total of 19 surface T/C's. The fifth gap is provided by using the P.I.U. (insert II) with its 90 T/C's for a total of 109 T/C's in the full 5 gap configuration. The P.I.U. has the capability of being placed at any of the chordwise gap locations. Filler blocks are provided to test any number of gaps up to 5.
IV	A longitudinal intersecting gap insert used in conjunction with the P.I.U. A total of 3 parallel chordwise gaps of 0.4, 0.8 and 1.6 inch depths intersect the transverse gap of the P.I.U. In addition to the 90 T/C's of the P.I.U. there are 4 instrumentation modules in the longitudinal gaps with a total of 35 T/C's.

- V A diagonal intersecting gap set up which will not use the P.I.U. Two orthogonal intersecting gaps of the same constant depth are instrumented with 4 modules with a total of 95 T/C's.
- VI A pressure instrumentation insert containing 3 rows of 8 each static pressure cells for a total of 24.

The P.I.U. used in insert I^r, III and IV has the capability of providing a surface step deflection between $-1/8$ inch and $+1/8$ inch by raising or lowering the aft wall section of the gap.

The model was constructed of 17-4 PH, 17-7 PH, and 15-5 PH stainless steel. The instrumented areas were machined to a nominal skin thickness of 0.015 inch on the surface and 0.007 inch in the gaps. Figures 3 through 6 describe each insert and the T/C instrumentation location.

TEST FACILITY

The NASA-Ames 3.5-Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psi, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft³ vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12 feet in diameter and 40 feet in length, arranged transversally to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +18 degrees, in a vertical plane, about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37 inches from tunnel centerline) until the tunnel test conditions are established, after which it is inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to 20 channels of tunnel parameters.

TESTING AND PROCEDURE

The carrier plate was sting mounted and set at 0° angle of attack, yaw, and roll throughout the test. The various inserts were lifted into place by a vacuum lift machine. The entire model was injected into the airflow by a quick insert mechanism when the air stream reached steady state conditions and retracted at the completion of data acquisition. Model injection and retraction times were about 0.8 second and the time on the flow center line was 3.3 seconds.

The model wall temperature data for each thermocouple, tunnel condition data, and the data for the model-mounted total temperature and pressure probes were recorded on magnetic tape at 0.07-second intervals from the beginning of injection to the end of retraction. Shadowgraphs were taken during selected runs.

The test program shown in table 1 was conducted at a free-stream Mach number of 5.1 at free-stream Reynolds number per foot values from 0.5×10^6 to 1.5×10^6 with a total temperature of 2000°R . Angle of attack, roll angle, and yaw angle were all 0° .

DATA REDUCTION

All test data were reduced at the NASA/Ames Research Center using the data-reduction techniques outlined below. The thermocouple data were reduced using the one dimensional thin-wall equation:

$$\dot{q} = WCb \frac{dT_w}{dt} = h (H_{aw} - H_w) \equiv hH_t \left(\frac{H_{aw}}{H_t} - \frac{H_w}{H_t} \right) \quad (1)$$

where: $C = C_0 + C_1 T_w + C_2 T_w^2$ for the T_w range in this test. (2)

Integration of equation (1) for $t = t_i$ to t and $T_w = T_{w_i}$ to T_w yields the linear equation:

$$f(T_w) = - \ln \left(\frac{T'_{aw} - T_w}{T'_{aw} - T_{w_i}} \right) - \left[\frac{C_1}{C'_{aw}} + \frac{C_2}{C'_{aw}} \left(T'_{aw} + \frac{T_w + T_{w_i}}{2} \right) \right] (T_w - T_{w_i})$$

$$= \frac{hc}{WC'_{aw} b} (t - t_i) \quad (3)$$

where it is defined that:

$$T'_{aw} \equiv \frac{H_{aw}}{c_p} \equiv \frac{H_{aw}}{H_t} \frac{H_t}{c_p} \geq (T_{aw})_{PG}$$

$$C'_{aw} \equiv C_0 + C_1 T'_{aw} + C_2 T'_{aw}{}^2$$

\neq specific heat at adiabatic wall temperature

The form of Eq (3) is $f(T_w) = mt + b$ where m is the slope and b is the intercept for a straight line.

The slope, m , of $f(T_w)$ vs t from Eq (3) is computed by a least-squares, straight-line fit over a finite time interval (approx 1 sec) after model reaches tunnel centerline where

$$\pi = \frac{hc_p}{WC'_{aw} b}$$

and the value of the heat-transfer coefficient, h , is then determined from:

$$h = \frac{WC'_{aw} b}{c_p} \quad (4)$$

Using this value of h , the heating rate is evaluated at the initial time, t_i , when the model is isothermal at the initial wall enthalpy, H_{wi}

$$\dot{q} = \dot{q}_i = h (H_{aw} - H_{wi}) \equiv hH_t \left(\frac{H_{aw}}{H_t} - \frac{H_{wi}}{H_t} \right) \quad (5)$$

where H_{aw}/H_t is the same value used to evaluate h . The resultant value of \dot{q} is independent of the value of H_{aw}/H_t used for both the h and \dot{q} evaluations.

The reference sphere heating is also evaluated at the initial wall enthalpy by the method of Fay and Riddell (ref. 2):

$$\dot{q}_s = h_s (H_t - H_{wi}) \equiv h_s H_t \left(1.0 - \frac{H_{wi}}{H_t} \right) \quad (6)$$

The model-to-sphere ratio of heat transfer coefficients is then determined from Eqs (5) and (6) as

$$\frac{h}{h_s} = \frac{\dot{q}_i}{\dot{q}_s} \left[\frac{1.0 - H_{wi}/H_t}{H_{aw}/H_t - H_{wi}/H_t} \right] \quad (7)$$

where \dot{q}_i is constant for all values of H_{aw}/H_t .

To determine h/h_s for various values of H_{aw}/H_t , the particular value of H_{aw}/H_t is substituted into Eq (7).

The Stanton number is defined as

$$St \equiv \frac{h}{\rho u} = \frac{\dot{q}_i}{\rho u (H_{2W} - H_{W_1})} \quad (8)$$

where for free-stream conditions, $\rho u = \rho_\infty V_\infty$.

The calculations of the model heating, reference sphere heating, and Reynolds number included the corrections of NACA report 1135 (ref. 3) for calorically imperfect, thermally perfect air. Keyes' equation for viscosity (see ref. 4) was also used for the sphere heating and Reynolds number computations.

DATA PRESENTATION

Tabulated heating results for the test program shown in table 1 are presented in numerical order by run number. The configuration numbers, I, II, III...VI, refer to the insert being tested. Only 75 thermocouple channels could be recorded at one time. Four of the inserts had more T/C's than the 75 available channels; therefore, it was necessary to connect a selected 75 T/C's for one run and another selected 75 for a different run on the same insert configuration. The dash number, II-1, II-2, III-5, III-5a, etc., refer to these various hook-up schemes. Each run tabulation is identified by a constant set number referring to the insert, the dash numbers, and, in the case of the multiple gap insert, the number of gaps.

Runs 1 to 37 were run during OH2A test from April 18 to 24 while runs 38 to 81 were accomplished during OH2B from May 25 to June 1, 1973. During the interim, insert II (P.I.U.) was modified as shown in figure 4. This modification is identified in the tabulated data by different constant set numbers and in the run schedule by II-1 and II-2.

The data reduction method utilizes the T_T values based on the 3 model-mounted, total-temperature probes and facility stagnation chamber total pressure. Thus, the heat transfer data is grouped by T/C's corresponding to each total temperature probe.

DATA TABULATION - Column Headings

<u>Symbol</u>	<u>Description</u>
CHAN	computer channel
CONSTANT SET	refers to particular T/C hookup run configuration
HAW/HT	ratio of adiabatic wall enthalpy to total enthalpy
H/HS(1.000)	ratio of model heat transfer coefficient to heat transfer coefficient of reference sphere for HAW/HT = 1.000
H/HS(0.907)	ratio of model heat transfer coefficient to heat transfer coefficient of reference sphere for HAW/HT = 0.907, turbulent
H/HS(0.874)	ratio of model heat transfer coefficient to heat transfer coefficient of reference sphere for HAW/HT = 0.874, laminar
HT	total enthalpy
HW/HT	ratio of wall enthalpy to total enthalpy at initial time
LENGTH	reference length
MACH	Mach number
PT	total pressure
Q	heat transfer rate at initial time
QS	heat transfer rate of reference sphere with 1-ft radius
REF 1	insert number 1,2,3,4,5,6
REF 2	dash number-plug hookup or number of gaps 1,2,3,4,5
REF 3	not used
RE/FT	Reynolds number per foot

REL	Reynolds number based on reference length
TT	total temperature
T/C	thermocouple
TW	wall temperature at initial time
TIME	initial time (before model insertion into flow) extrapolated from $f(T_w)$ vs. time
RS	reference sphere radius, 1 ft
ST(0.907)	Stanton number for HAW/HT = 0.907, turbulent
ST(0.874)	Stanton number for HAW/HT = 0.874, laminar

REFERENCES

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2. Fay, J. A.; and Riddell, F. R.: Theory of Stagnation Point Heat Transfer in Dissociated Air. J. Aeron. Sci., Vol. 25, No. 1, Feb. 1958, pp. 73-85.
3. Ames Research Staff: Equations, Tables, and Charts for Compressible Flow. NACA Rept. 1135, 1953.
4. Bertram, Mitchel H.: Comment on "Viscosity of Air." J. Spacecraft Rockets, Vol. 4, No. 2, Feb. 1967, pp. 287-288.

TABLE 1. - RUN SCHEDULE FOR OH2A AND OH2B TESTS, ARC 3.5-FT HWT

MACH 5.1 $T_R = 2000^\circ R$ $\alpha = \beta = \phi = 0^\circ$ Re/FT SCHEDULE: A = 0.47×10^6 ,

B = 0.81×10^6 , C = 1.14×10^6 , D = 1.48×10^6

DATA SET IDENTIFIED	RUN NO.	Re/FT SCHEDULE	CONFIG.	REF 1, 2, 3	CONSTANT SET	GAP WIDTH (w)	GAP DEPTH (d)	STEP (s)	NO. OF GAPS	L. E. NO.
	1	A	VI-1	610	1	0	0	0	0	1
	2	B								
	3	C								
	4	D								
	5	XXX	I-1	XXX DATA NOT USABLE	XXX	XXX	XXX	XXX	XXX	XXX
	6	A	II-1	210	211	0.200	.4/.8/1.6	0	1	
	7	B								
	8	C								
	9	D								
	10	A				0.100				
	11	B								
	12	C								
	13	D								
	14	A				0.050				
	15	B	XXX	XXX DATA NOT USABLE	XXX	XXX	XXX	XXX	XXX	XXX
	16	B	II-1	210	211	0.050	.4.8/1.6	0	1	
	17	C								
	18	D						+1/16		
	19	B								
	20					0.100				
	21					0.200				
	22					0.200		+ 1/8		
	23					0.050				
	24					0.100				

TABLE 1. - Continued.

DATA SET IDENTIFIED	RUN NO.	Re/FT SCHEDULE	CONFIG.	REF 1, 2, 3	CONSTANT SET	GAP WIDTH (w)	GAP DEPTH (d)	STEP (s)	NO. OF GAPS	L. E. NO.
	25	B	II-1	210	211	0.100	.4/.8/1.6	-1/16	1	1
	26	A	IV-2	400	421			0	1 x 3	
	27	B			421					
	28	D			422					
	29	A	IV-1	410	411					
	30	B			412					
	31	C			413					
	32	B			414			+1/16		
	33	A			411			+1/16		
	34	A	III-5	350	351 & 352			0	5	
	35	B			351 & 352					
	36	C			351 & 352					
	37	D			351 & 352					
OH2 B TEST										
	38	A	I-1	110	111	0	0	0	0	1
	39	B								
	40	C								
	41	D								
	42	A								
	43	B								
	44	C								
	45	D								
	46	A	V-1	510	511	0.100	0.800		1 x 1	2
	47	B								
	48	C								1

TABLE 1. - Continued.

DATA SET IDENTIFIED	RUN NO.	Re/FT SCHEDULE	CONFIG.	REF. 1, 2, 3	CONSTANT SET	GAP WIDTH (w)	GAP DEPTH (d)	STEP (s)	NO. OF GAPS	L. E. NO.
	49	D	V-1	510	511	0.100	0.800	0	1 x 1	1
	50	A	V-2	520	521					
	51	B								
	52	C								
	53	D								
	54	A	II-2	220	221	0.200	.4/.8/1.6		1	1
	55	B	II-2	220	221	0.200	.4/.8/1.6	0	1	1
	56	A				0.100				
	57	B								
	58	D				0.050				
	59	A				0.050				
	60	B								
	61	D				0.025				
	62	A				0.025				
	63	B								
	64	D								
	65	A				0.050		+1/16		
	66	B								
	67	D								
	68	A						+1/8		
	69	B								
	70	D								
	71	A						-1/6		
	72	B								
	73	D								
	74	A	III-5a	350	353, 354**	0.100		0	5	1
	75	B	III-5a		353, 354**	0.100	.4/.8/1.6	0	5	1

TABLE 1. - Concluded.

DATA SET IDENTIFIED	RUN NO.	Re/FT SCHEDULE	CONFIG.	REF. 1, 2, 3	CONSTANT SET	GAP WIDTH (w)	GAP DEPTH (d)	STEP (s)	NO. OF GAPS	L. E. NO.
	76	B	III-5a	350	353, 354**	0.100	.4/.8/1.6	0	5	1
	77	A	III-3	330	353, 354**	→	→	→	3	→
	78	B	→	→	353, 354**	→	→	→	→	→
	79	D	→	→	353, 354**	→	→	→	→	→
	80	B	III-2	320	353, 354**	→	→	→	2	→
	81	D	III-2	320	353, 354**	→	→	→	2	→

*DUE TO THE FACT THAT IT WAS NECESSARY TO HONE THE LEADING EDGE (L.E.) AFTER EACH RUN THE RADIUS AND LENGTH CHANGED SLIGHTLY. A SECOND L.E. WAS USED TO INVESTIGATE THIS EFFECT.

**CONSTANT SET 353 AND 352 REFERS ONLY TO INSERT III T/C'S 17-4 PH
 CONSTANT SET 354 AND 351 REFERS ONLY TO INSERT II T/C'S 17-7 PH

TABLE 2. THERMOCOUPLE LOCATIONS

INSEET I

T/C No.	x*	y	z	T/C No.	x*	y	z
1	14.003	+8.085	0	38	32.998	0	0
2	16.002	+8.085	0	39	34.512	0	0
3	18.000	+8.085	0	40	36.012	0	0
4	19.503	+8.085	0	41	37.508	0	0
5	20.999	+8.085	0	42	39.008	0	0
6	22.517	+8.085	0	43	40.520	0	0
7	24.003	+8.085	0	44	42.026	0	0
8	25.504	+8.085	0	45	43.515	0	0
9	26.994	+8.085	0	46	45.020	0	0
10	28.510	+8.085	0	47	46.523	0	0
11	30.016	+8.085	0	48	48.015	0	0
12	31.516	+8.085	0	49	49.518	0	0
13	33.016	+8.085	0	50	50.015	0	0
14	34.515	+8.085	0	51	13.984	-8.085	0
15	36.020	+8.085	0	52	15.990	-8.085	0
16	37.515	+8.085	0	53	18.007	-8.085	0
17	39.021	+8.085	0	54	19.500	-8.085	0
18	40.511	+8.085	0	55	21.011	-8.085	0
19	42.016	+8.085	0	56	22.500	-8.085	0
20	43.515	+8.085	0	57	24.003	-8.085	0
21	45.018	+8.085	0	58	25.504	-8.085	0
22	46.527	+8.085	0	59	27.006	-8.085	0
23	48.014	+8.085	0	60	28.508	-8.085	0
24	49.518	+8.085	0	61	30.002	-8.085	0
25	51.020	+8.085	0	62	31.504	-8.085	0
26	13.984	0	0	63	33.010	-8.085	0
27	15.980	0	0	64	34.511	-8.085	0
28	17.983	0	0	65	36.015	-8.085	0
29	19.485	0	0	66	37.500	-8.085	0
30	20.995	0	0	67	39.015	-8.085	0
31	22.479	0	0	68	40.516	-8.085	0
32	24.000	0	0	69	42.014	-8.085	0
33	25.477	0	0	70	43.508	-8.085	0
34	26.965	0	0	71	45.016	-8.085	0
35	28.500	0	0	72	46.508	-8.085	0
36	30.010	0	0	73	48.010	-8.085	0
37	31.508	0	0	74	49.510	-8.085	0
				75	51.010	-8.085	0

* Measured from model leading edge.

TABLE 2. - Continued.

INSERT II P.I.U. - OH2 A TEST

T/C No	x* _{II}	y	z	T/C No	x* _{II}	y	z
1	0	+8.085	-.295	39	- 0	-.125	-.050
2	0	+8.085	-.202	40	+0.020	0	-.020
3	0	+8.085	-.112	41	+0.066	-.125	0
4	0	+7.960	-.029	42	+0.095	0	0
5	+0.020	+8.085	-.020	43	+0.290	0	0
6	+0.050	+7.960	0	44	+0.494	0	0
7	+0.180	+8.085	0	45	+0.994	0	0
8	+0.296	+8.085	0	46	+1.491	0	0
9	+0.486	+8.085	0	47	+1.990	0	0
10	+0.993	+8.085	0	48	+2.992	0	0
11	+1.484	+8.085	0	49	+3.991	0	0
12	+1.997	+8.085	0	50	+4.995	0	0
13	+2.998	+8.085	0	51	0	-0.625	-.101
14	+3.998	+8.085	0	52	0	-0.625	-.185
15	+5.000	+8.083	0	53	0	-0.625	-.397
16	-0.050	+8.083	-.400	54	0	-0.625	-.595
17	-0.050	+7.458	-.400	55	-.050	-0.625	-.800
18	0	+7.458	-.300	56	0	-0.625	-.595
19	0	+7.458	-.200	57	0	-0.625	-.397
20	0	+7.458	-.100	58	0	-0.625	-.185
21	-1.000	0	0	59	0	-0.625	-.101
22	-0.500	0	0	60	+0.020	-0.625	-.020
23	-0.100	0	0	61	0	-1.225	-.102
24	-0.020	0	-.020	62	0	-1.225	-.202
25	0	0	-.105	63	0	-1.225	-.386
26	0	0	-.188	64	0	-1.225	-.580
27	0	0	-.295	65	-.050	-1.225	-.800
28	0	0	-.390	66	0	-1.225	-.580
29	0	0	-.480	67	0	-1.225	-.386
30	0	0	-.600	68	0	-1.225	-.202
31	-0.050	0	-.800	69	0	-1.225	-.102
32	0	0	-.695	70	+0.020	-1.225	-.020
33	0	0	-.594	71	0	-8.083	-1.358
34	0	0	-.480	72	0	-8.083	-1.187
35	0	0	-.390	73	0	-8.083	-.990
36	0	0	-.295	74	0	-8.083	-.791
37	0	0	-.188	75	0	-8.083	-.597
38	0	0	-.105	76	0	-8.083	-.488

TABLE 2. - Continued.

INSERT II P.I.U. - OH2 A TEST

T/C No	x_{II}^*	y	z	T/C No	x_{II}^*	y	z
77	0	-8.083	-.393	84	+4.499	-8.083	0
78	0	-8.083	-.292	85	+3.990	-8.083	0
79	0	-8.083	-.196	86	+1.502	-8.083	0
80	0	-8.083	-.096	87	+1.996	-8.083	0
81	+0.020	-8.083	-.020	88	+2.992	-8.083	0
82	+0.092	-8.083	0	89	+3.990	-8.083	0
83	+0.302	-8.083	0	90	+4.993	-8.083	0

* x_{II} measured from forward face of gap in closed gap configuration (T/C x dimension aft of gap forward face do not include gap width). Negative x_{II} = forward; positive = aft. Add x_{II} , gap width and x location of forward face of gap to determine distance from leading edge for T/C's aft of forward face.

TABLE 2. - Continued.

INSERT II P.I.U. - OH2 B TEST

T/C No	x* _{II}	y	z	T/C No	x* _{II}	y	z
1	0	+8.085	-.295	38	0	0	-0.105
2	0	+8.085	-.202	39	0	-0.125	-0.050
3	0	+8.085	-.112	40	+0.020	0	-0.020
4	0	+7.960	-.034	41	+0.065	-0.125	0
5	+0.020	+8.085	-.020	42	+0.095	0	0
6	+0.050	+7.960	0	43	+0.290	0	0
7	+0.180	+8.085	0	44	+0.494	0	0
8	+0.296	+8.085	0	45	+0.994	0	0
9	+0.486	+8.085	0	46	+1.491	0	0
10	+0.993	+8.085	0	47	+1.990	0	0
11	+1.484	+8.085	0	48	+2.992	0	0
12	+1.997	+8.085	0	49	+3.991	0	0
13	+2.998	+8.085	0	50	+4.995	0	0
14	+3.998	+8.085	0	51	-0.500	-0.625	0
15	+5.000	+8.083	0	52	0	-0.625	-0.101
16	-0.050	+8.083	-.400	53	0	-0.625	-0.185
17	-0.050	+7.458	-.400	54	0	-0.625	-0.397
18	0	0	-.300	55	0	-0.625	-0.595
19	0	0	-.200	56	-0.050	-0.625	-0.800
20	0	0	-.100	57	0	-0.625	-0.595
21	-1.000	0	0	58	0	-0.625	-0.397
22	-0.500	0	0	59	0	-0.625	-0.185
23	-0.100	0	0	60	0	-0.625	-0.101
24	-0.020	0	-.020	61	-0.500	-1.225	0
25	0	0	-.105	62	0	-1.225	-0.102
26	0	0	-.188	63	0	-1.225	-0.202
27	0	0	-.295	64	0	-1.225	-0.386
28	0	0	-.390	65	0	-1.225	-0.580
29	0	0	-.480	66	-0.050	-1.225	-0.800
30	0	0	-.600	67	0	-1.225	-0.580
31	-0.050	0	-.800	68	0	-1.225	-0.386
32	0	0	-.695	69	0	-1.225	-0.202
33	0	0	-.594	70	0	-1.225	-0.102
34	0	0	-.480	71	0	-8.083	-1.358
35	0	0	-.390	72	0	-8.083	-1.187
36	0	0	-.295	73	0	-8.083	-0.990
37	0	0	-.188	74	0	-8.083	-0.791

TABLE 2. - Continued.

INSERT II P.I.U. - OH2 B TEST

T/C No	x_{II}^*	y	z	T/C No	x_{II}^*	y	z
75	0	-8.083	-.597	83	+0.302	-8.083	0
76	0	-8.083	-.488	84	+0.499	-8.083	0
77	0	-8.083	-.393	85	+0.990	-8.083	0
78	0	-8.083	-.292	86	+1.502	-8.083	0
79	0	-8.083	-.196	87	+1.996	-8.083	0
80	0	-8.083	-.096	88	+2.992	-8.083	0
81	+0.020	-8.083	-.020	89	+3.990	-8.083	0
82	+0.092	-8.083	0	90	+4.993	-8.083	0

* x_{II} measured from forward face of gap in closed gap configuration (T/C x dimensions aft of gap forward face do not include gap width). Negative x_{II} = forward; positive = aft. Add x_{II} , gap width and x location of forward face of gap to determine distance from leading edge for T/C's aft of forward face.

TABLE 2. - Continued.

INSERT III

T/C No	x* _{III}	y	z
1	0.50	0	0
2	1.45	0	0
3	2.95	0	0
4	4.45	0	0
5	5.40	0	0
6	0.50	0	0
7	1.45	0	0
8	2.95	0	0
9	4.45	0	0
10	5.40	0	0
11	0.50	0	0
12	1.45	0	0
13	2.95	0	0
14	4.45	0	0
15	5.40	0	0
16	0.50	0	0
17	1.80	0	0
18	3.30	0	0
19	4.25	0	0

*x_{III} measured from forward edge of corresponding six-inch module. For locations of T/C's in P.I.U. see insert II OH2 A or OH2 B locations.

TABLE 2. - Continued.

INSERT IV

T/C No.	x^*_{IV}	y	z
1	6.000	0	0
2	6.000	0	45° radius
3	6.000	0	.1
4	6.000	0	.2
5	6.000	0	.3
6	6.000	0	.4
7	6.000	0	.5
8	6.000	0	.6
9	6.000	0	.7
10	6.000	0	.8
11	18.000	0	.0
12	18.000	C	45° radius
13	18.000	0	.1
14	18.000	0	.2
15	18.000	0	.3
16	18.000	0	.4
17	18.000	0	.5
18	18.000	0	.6
19	18.000	0	.7
20	18.000	0	.8
21	12.000	-8.085	0
22	12.000	-8.085	45° radius
23	12.000	-8.085	.1
24	12.000	-8.085	.2
25	12.000	-8.085	.3
26	12.000	-8.085	.4
27	12.000	-8.085	.6
28	12.000	-8.085	.8
29	12.000	-8.085	1.0
30	12.000	-8.085	1.4
31	12.000	+8.085	0
32	12.000	+8.085	.1
33	12.000	+8.085	.2
34	12.000	+8.085	.3
35	12.000	+8.085	.4

* x_{IV} measured from leading edge of insert which for this test was model station 12 inches.

TABLE 2. - Continued.

INSERT V

T/C No	x* _v	y	z	T/C No	x* _v	y	z
1	7.440	+5.000	0	38	21.945	+5.000	0
2	8.444	+5.000	0	39	22.945	+5.000	0
3	9.140	+5.000	0	40	23.545	+5.000	0
4	9.240	+5.000	-.100	41	13.171	-5.000	0
5	9.240	+5.000	-.200	42	14.171	-5.000	0
6	9.240	+5.000	-.400	43	14.955	-5.000	0
7	9.240	+5.000	-.600	44	15.055	-5.000	-.100
8	9.340	+5.000	-.800	45	15.055	-5.000	-.200
9	9.440	+5.000	-.600	46	15.055	-5.000	-.400
10	9.440	+5.000	-.400	47	15.055	-5.000	-.600
11	9.440	+5.000	-.300	48	15.113	-5.000	-.800
12	9.440	+5.000	-.200	49	15.171	-5.000	-.600
13	9.440	+5.000	-.100	50	15.171	-5.000	-.400
14	9.470	+5.000	-.017	51	15.171	-5.000	-.300
15	9.540	+5.000	-.0	52	15.171	-5.000	-.200
16	9.740	+5.000	0	53	15.171	-5.000	-.100
17	9.940	+5.000	0	54	15.186	-5.000	-.017
18	10.440	+5.000	0	55	15.271	-5.000	0
19	11.440	+5.000	0	56	15.471	-5.000	0
20	12.440	+5.000	0	57	15.671	-5.000	0
21	18.945	+5.000	0	58	16.171	-5.000	0
22	19.945	+5.000	0	59	17.171	-5.000	0
23	20.729	+5.000	0	60	18.171	-5.000	0
24	20.829	+5.000	-.100	61	16.428	-0.025	0
25	20.829	+5.000	-.200	62	17.428	-0.025	0
26	20.829	+5.000	-.400	63	17.986	-0.025	-.800
27	20.829	+5.000	-.600	64	18.044	-0.025	-.600
28	20.887	+5.000	-.800	65	18.044	-0.025	-.400
29	20.945	+5.000	-.600	66	18.044	-0.025	-.300
30	20.945	+5.000	-.400	67	18.044	-0.025	-.200
31	20.945	+5.000	-.300	68	18.044	-0.025	-.100
32	20.945	+5.000	-.200	69	18.059	-0.025	-.017
33	20.945	+5.000	-.100	70	18.144	-0.025	0
34	20.960	+5.000	-.017	71	18.344	-0.025	0
35	21.045	+5.000	0	72	18.544	-0.025	0
36	21.245	+5.000	0	73	19.044	-0.025	0
37	21.445	+5.000	0	74	20.044	-0.025	0
				75	21.044	-0.025	0

TABLE 2. - Concluded.

INSERT V

T/C No	x^*_V	y	z
76	17.524	-.925	-.300
77	17.524	-.925	-.200
78	17.524	-.925	-.100
79	17.539	-.925	-.017
80	17.624	-.925	0
81	17.824	-.925	0
82	18.024	-.925	0
83	18.524	-.925	0
84	19.524	-.925	0
85	20.524	-.925	0
86	18.563	+.875	-.300
87	18.563	+.875	-.200
88	18.563	+.875	-.100
89	18.578	+.875	-.017
90	18.663	+.875	0
91	18.863	+.875	0
92	19.063	+.875	0
93	19.563	+.875	0
94	20.563	+.875	0
95	21.563	+.875	0

* x_V measured from front face of insert which for this test was at model station 18.

TABLE 3. - PRESSURE TRANSDUCER LOCATIONS

INSERT VI

Transducer No	x*	y	z
1	16.672	+8.000	0
2	21.341	+8.001	0
3	25.997	+8.001	0
4	30.670	+8.000	0
5	35.334	+7.999	0
6	39.997	+8.000	0
7	44.667	+8.000	0
8	49.327	+8.000	0
9	16.677	+0.003	0
10	21.337	+0.003	0
11	26.001	+0.002	0
12	30.666	+0.002	0
13	35.330	+0.002	0
14	40.000	+0.002	0
15	44.655	+0.002	0
16	49.328	-0.002	0
17	16.671	-7.998	0
18	21.333	-7.997	0
19	26.000	-7.999	0
20	30.668	-7.999	0
21	35.333	-7.999	0
22	39.996	-7.999	0
23	44.658	-7.998	0
24	49.328	-7.998	0

* x measured from model leading edge

TABLE 4.

TEST :	NOMINAL TEST CONDITIONS		DATE :
OH2 (ARC 3.5 #158)			
MACH NUMBER	REYNOLDS NUMBER (per unit length)	Total PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Rankine)
5.1	$.47 \times 10^6/\text{ft}$	70	2000
5.1	$.81 \times 10^6/\text{ft}$	120	2000
5.1	$1.14 \times 10^6/\text{ft}$	170	2000
5.1	$1.48 \times 10^6/\text{ft}$	220	2000

BALANCE UTILIZED: none; thermocouples

CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF _____	_____	_____
SF _____	_____	_____
AF _____	_____	_____
PM _____	_____	_____
RM _____	_____	_____
YM _____	_____	_____

COMMENTS:

CARRIER PLATE

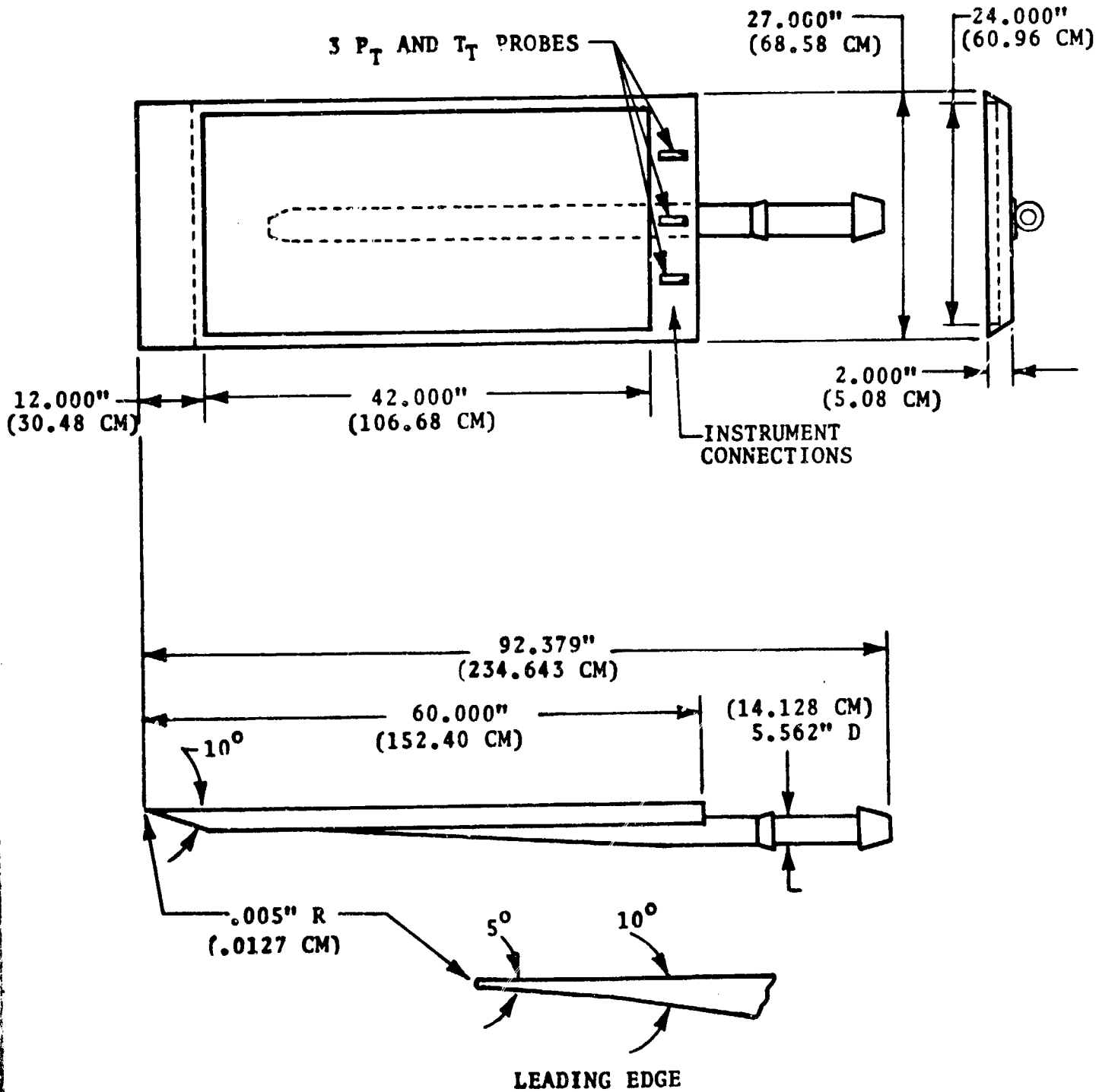
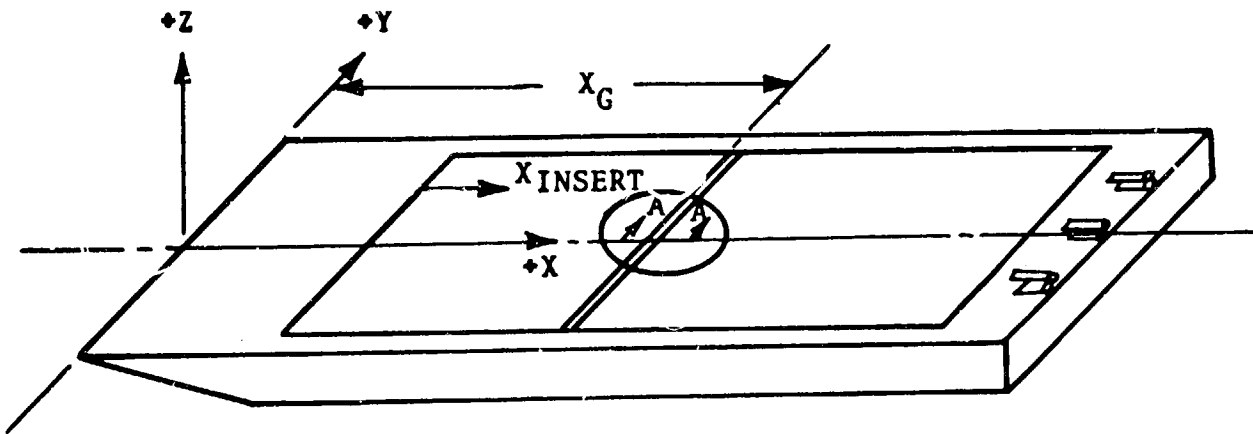


Figure 1. - CARRIER PLATE.

Figure 2. -- MODEL COORDINATE DEFINITION



Note: All dimensions in inches.

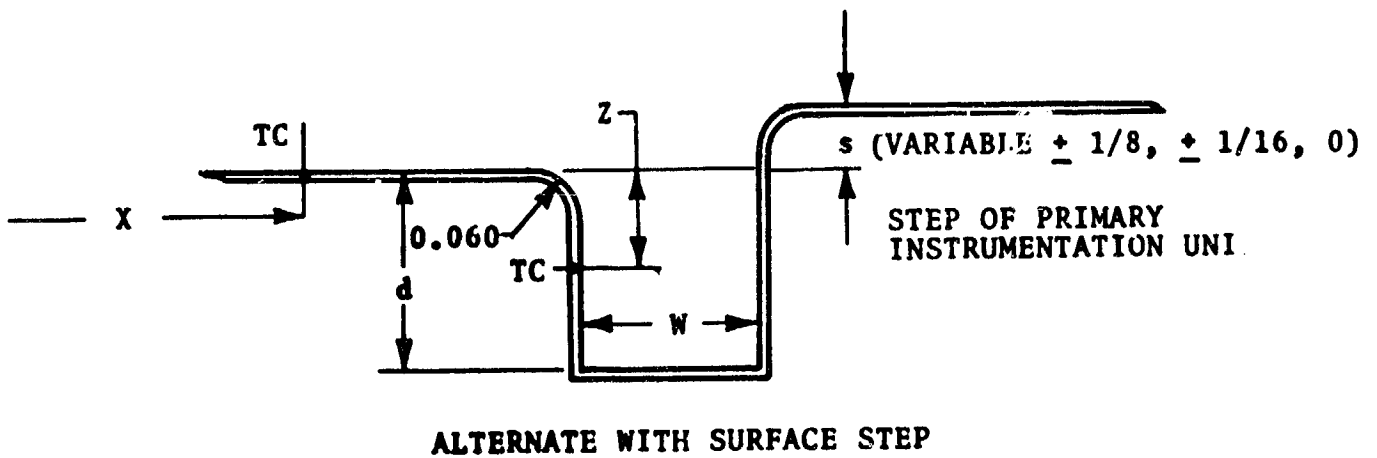
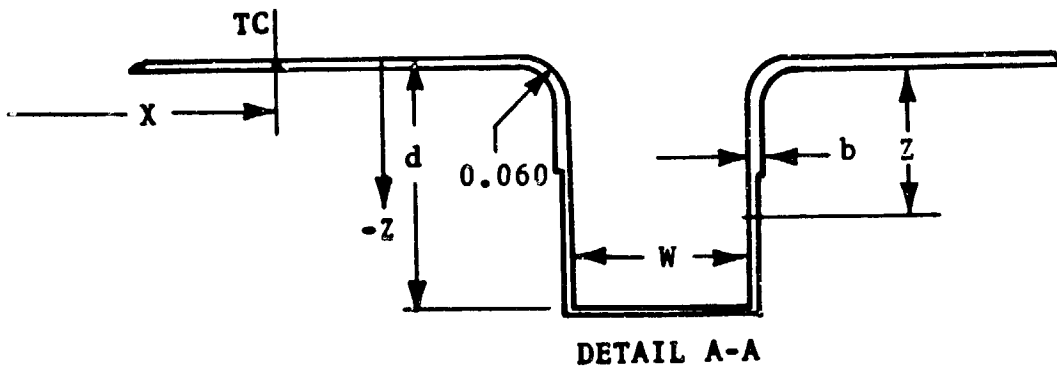
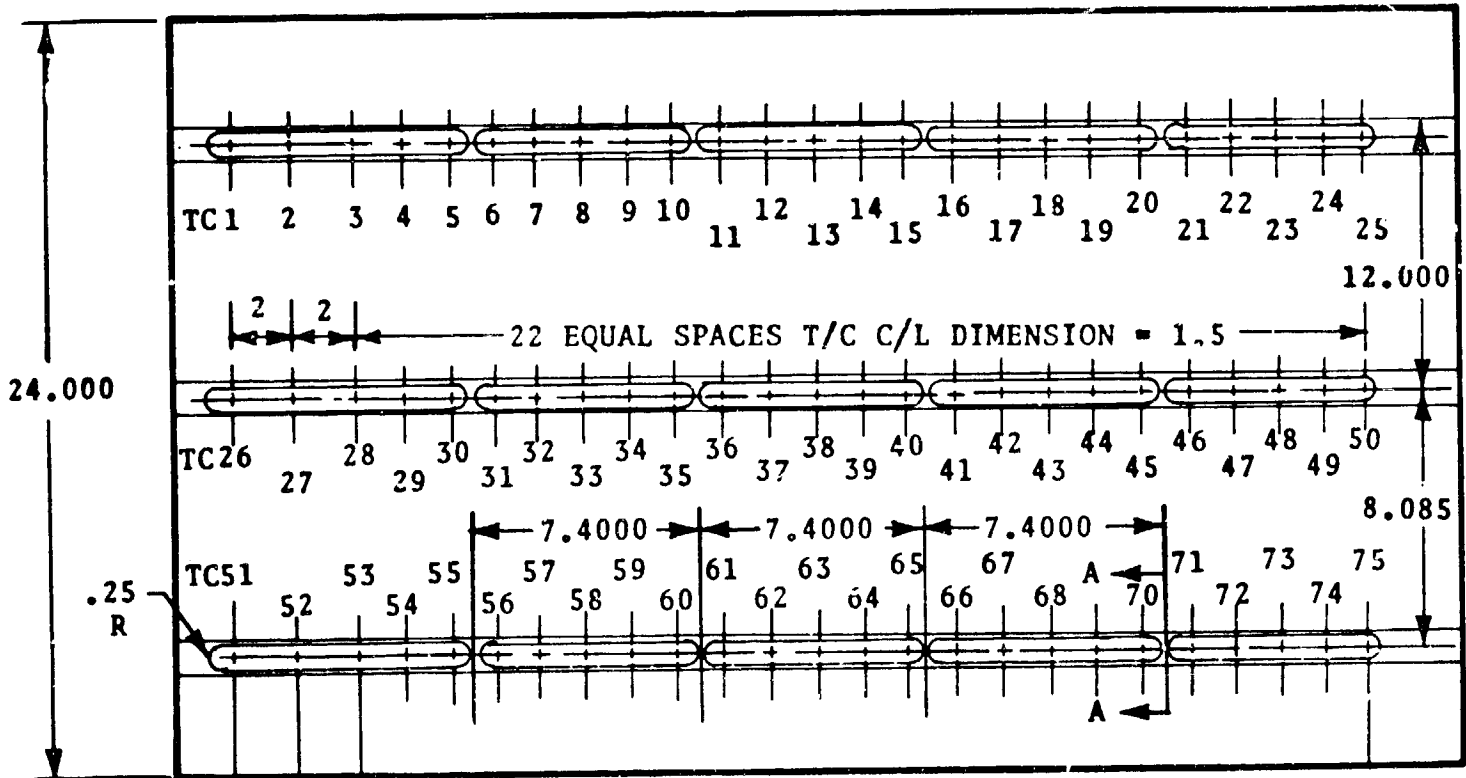


Figure 3. - INSERT NO. 1

$X_I = 0$
STA 12

SMOOTH PLATE HEAT TRANSFER

$X_I = 42.00$
STA 54



Note: All dimensions in inches.

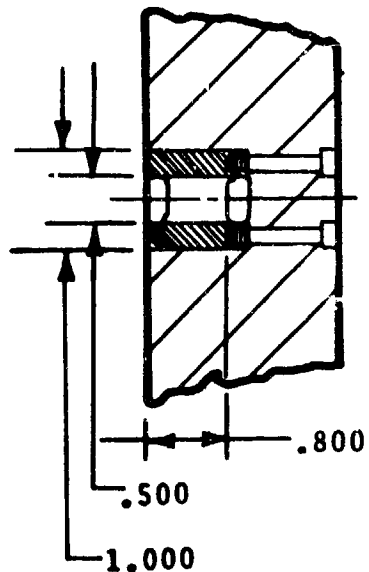
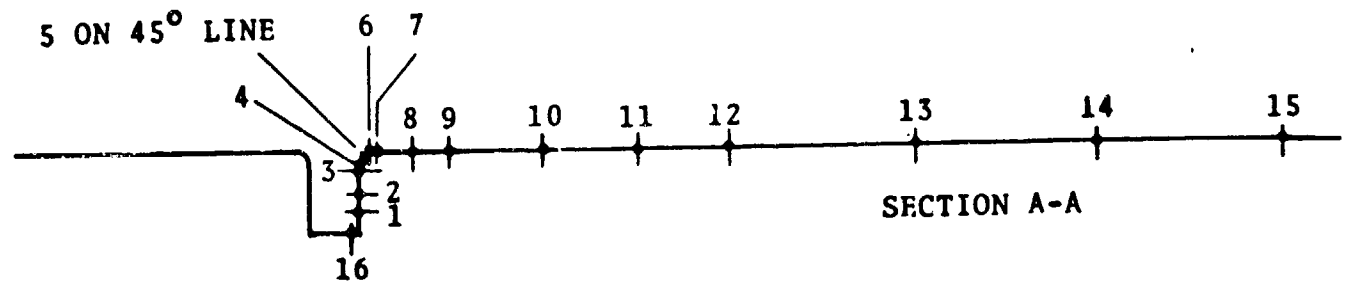
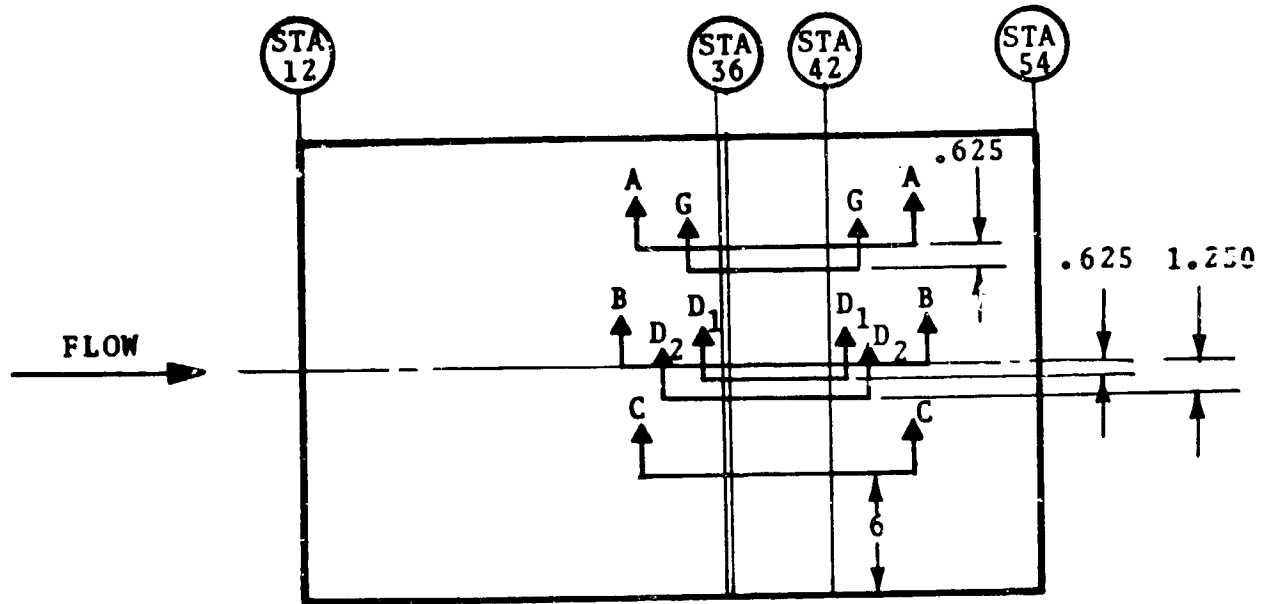


Figure 4. - INSERT NO. II
 SINGLE TRANSVERSE GAP
 (PRIMARY INSTRUMENTATION UNIT)



Note: All dimensions in inches.

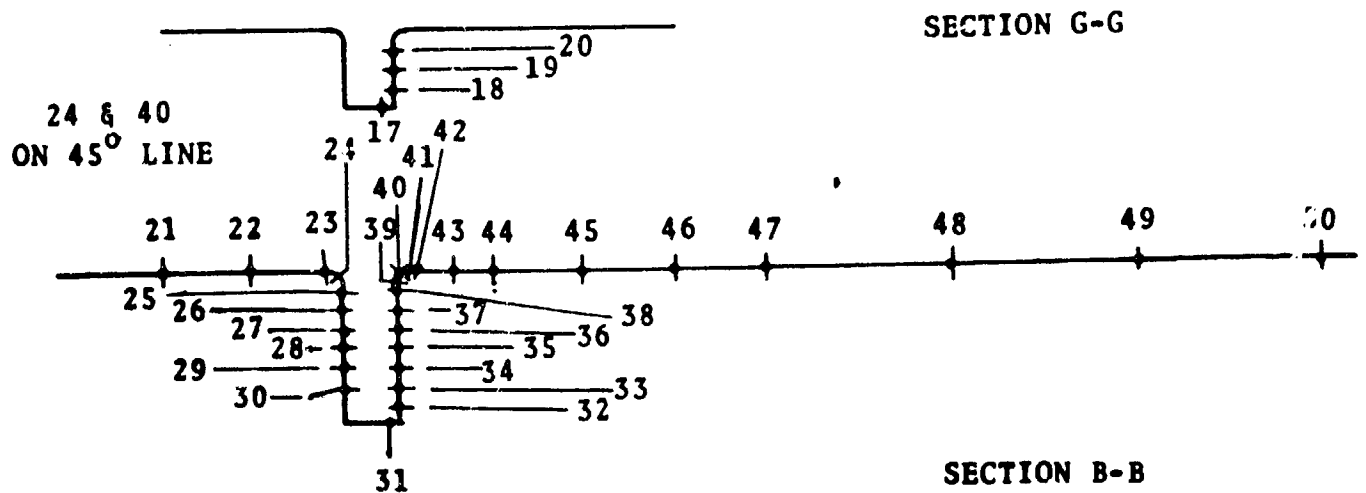


Figure 4 - INSERT NO. 11 (CONT'D)
SINGLE TRANSVERSE GAP
OH2 A TEST

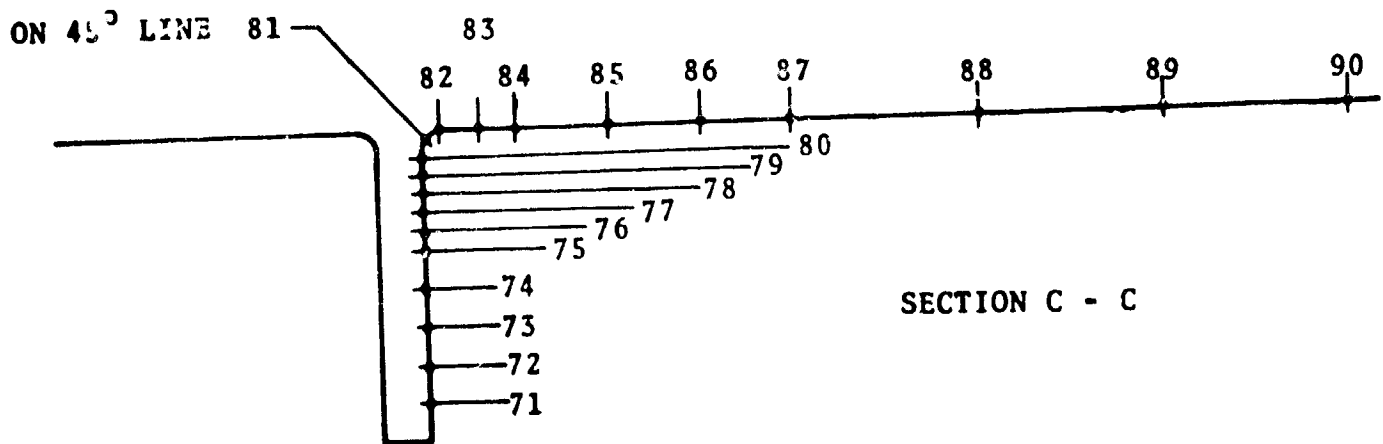
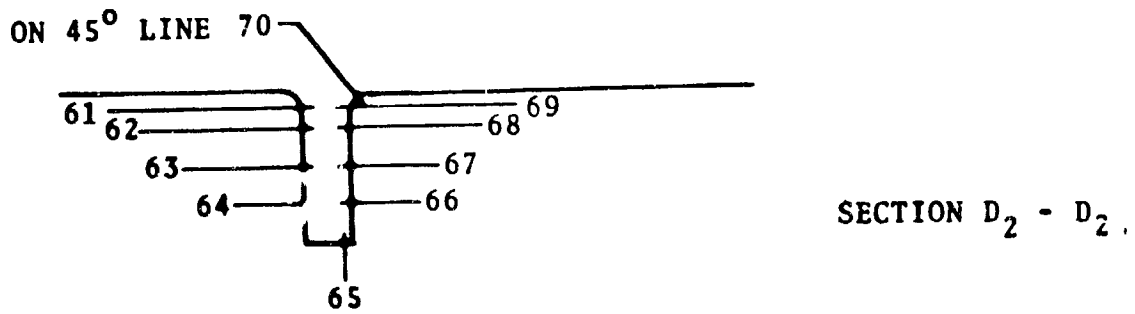
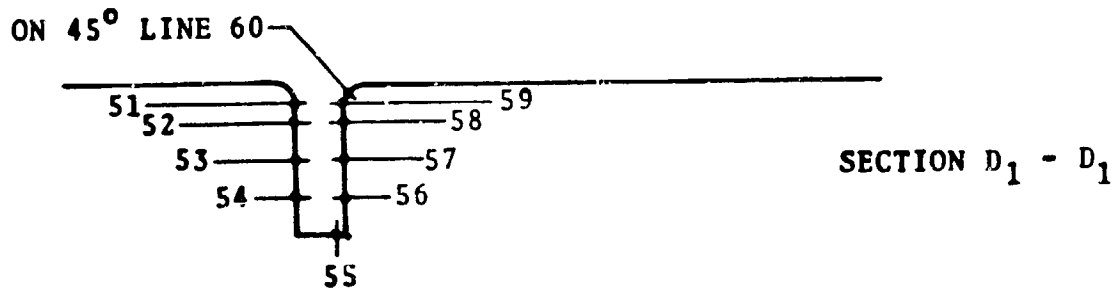


Figure 4. - INSERT NO. II (CONT'D)
 SINGLE TRANSVERSE GAP
 OH2 B TEST

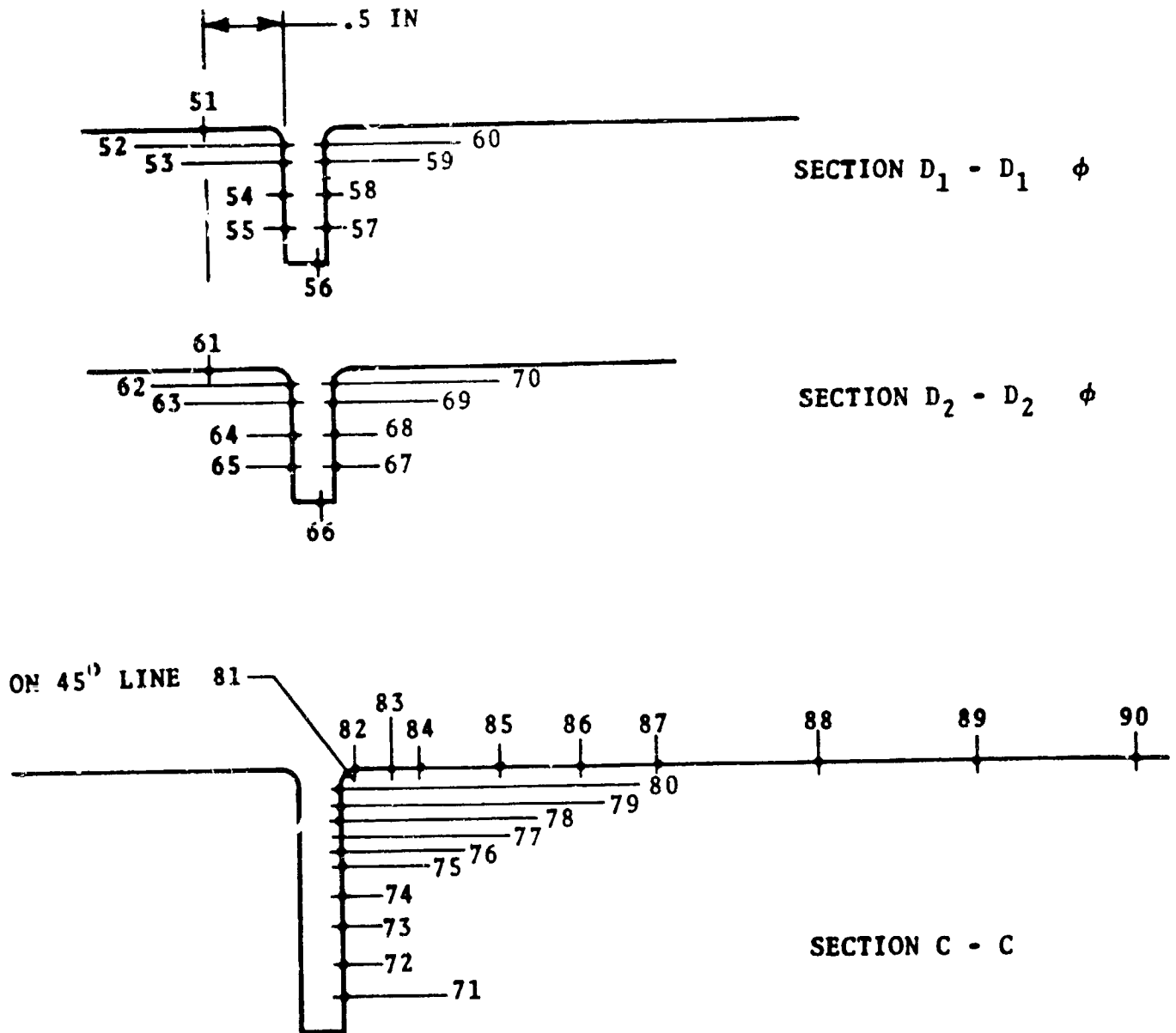
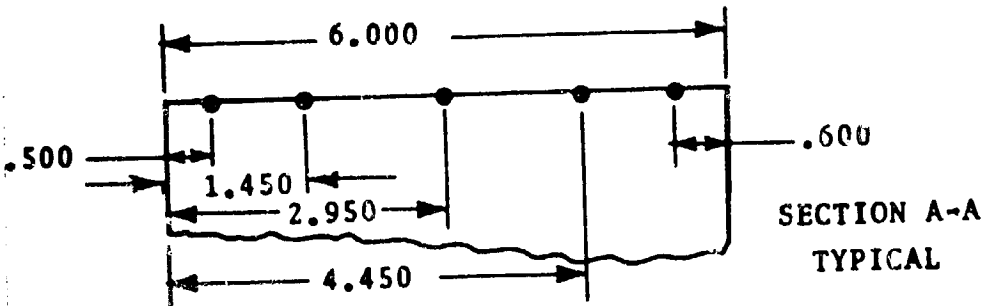
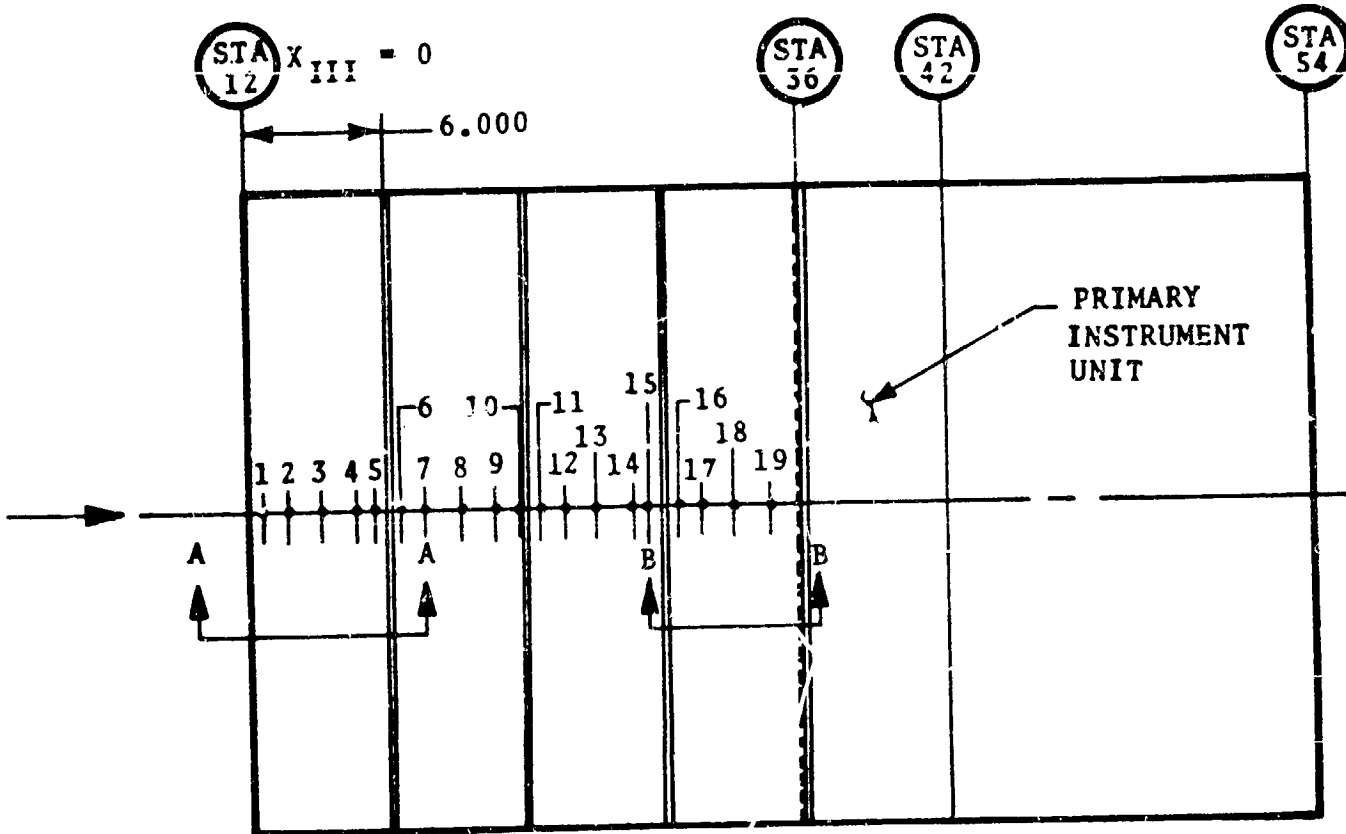


Figure 5. - INSERT NO. III
 MULTIPLE TRANSVERSE GAPS



Note: All dimensions in inches.

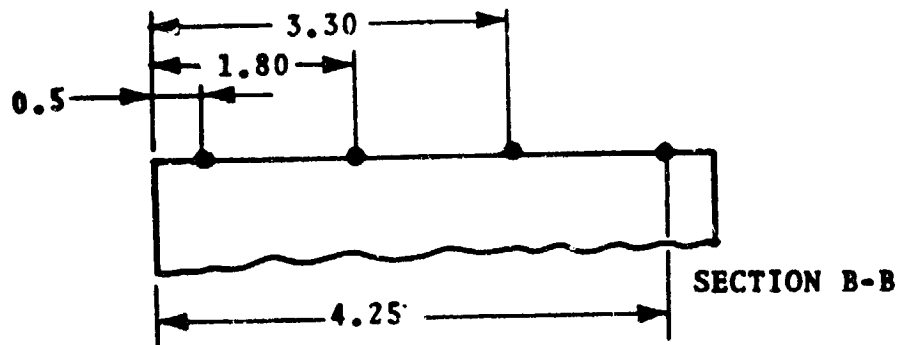
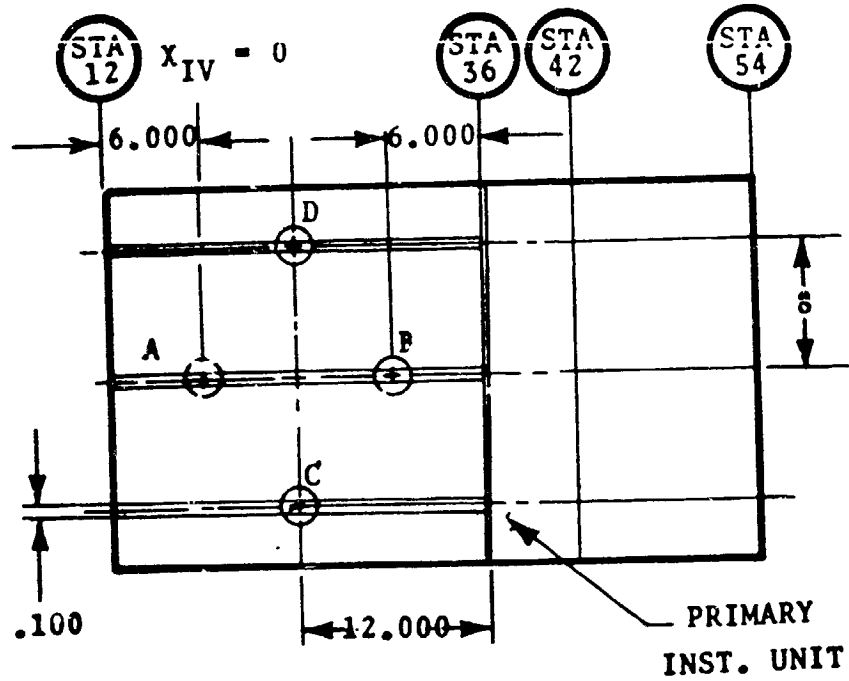


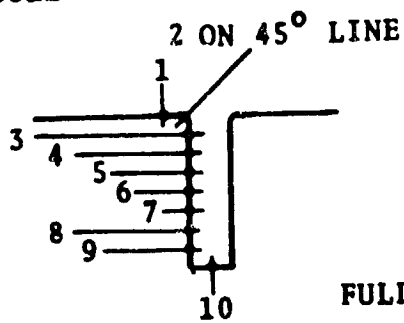
Figure 6. - INSERT NO. IV

LONGITUDINAL INTERSECTING GAPS

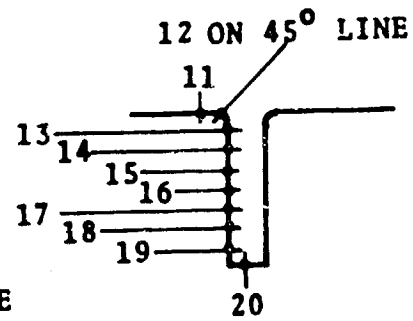


Note: All dimensions in inches.

MODULE A

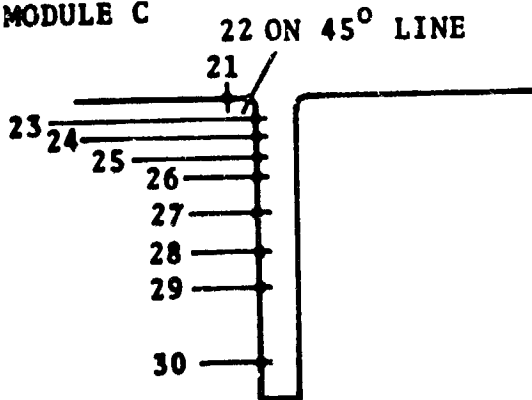


MODULE B



FULL SCALE

MODULE C



MODULE D

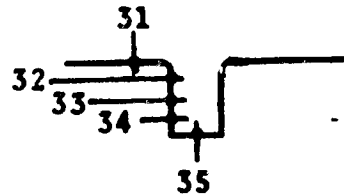
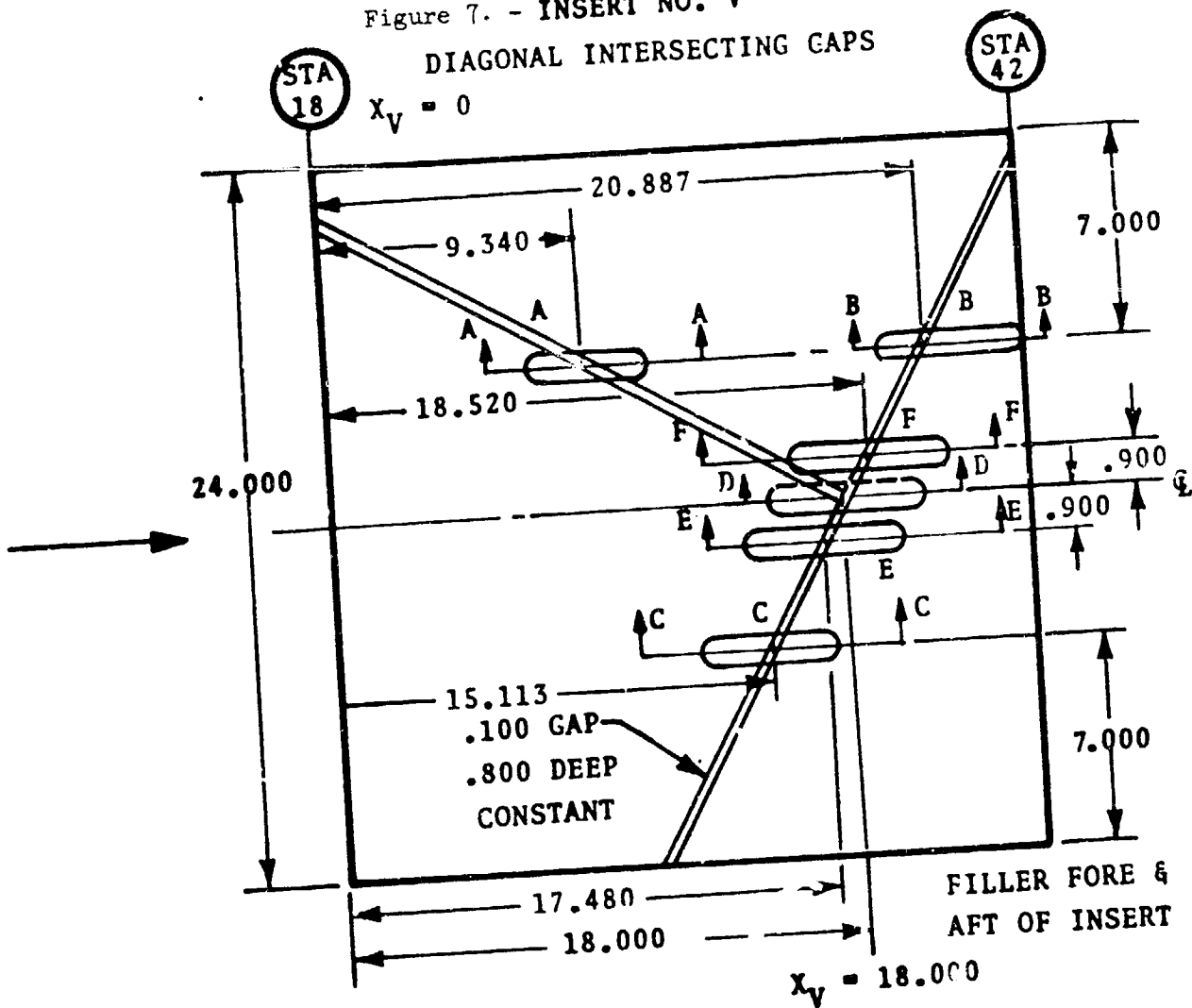


Figure 7. - INSERT NO. V
DIAGONAL INTERSECTING GAPS



Note: All dimensions in inches.

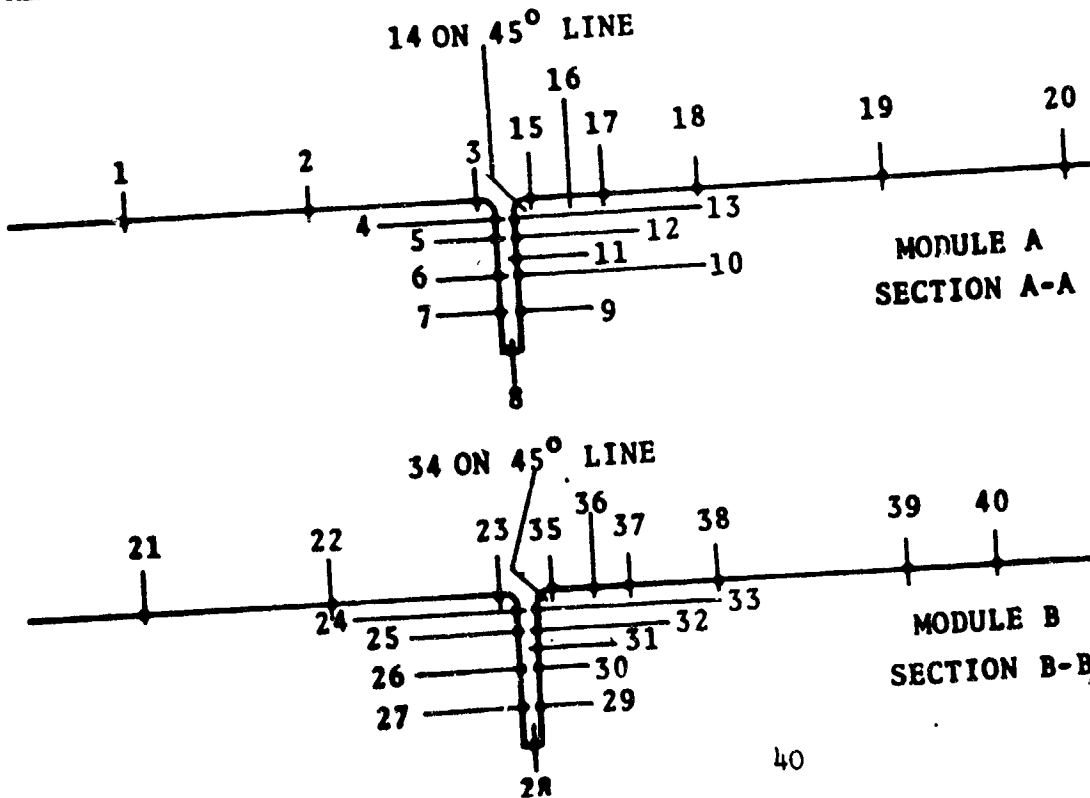


Figure 7. - INSERT NO. V (CONT'D)
DIAGONAL GAP

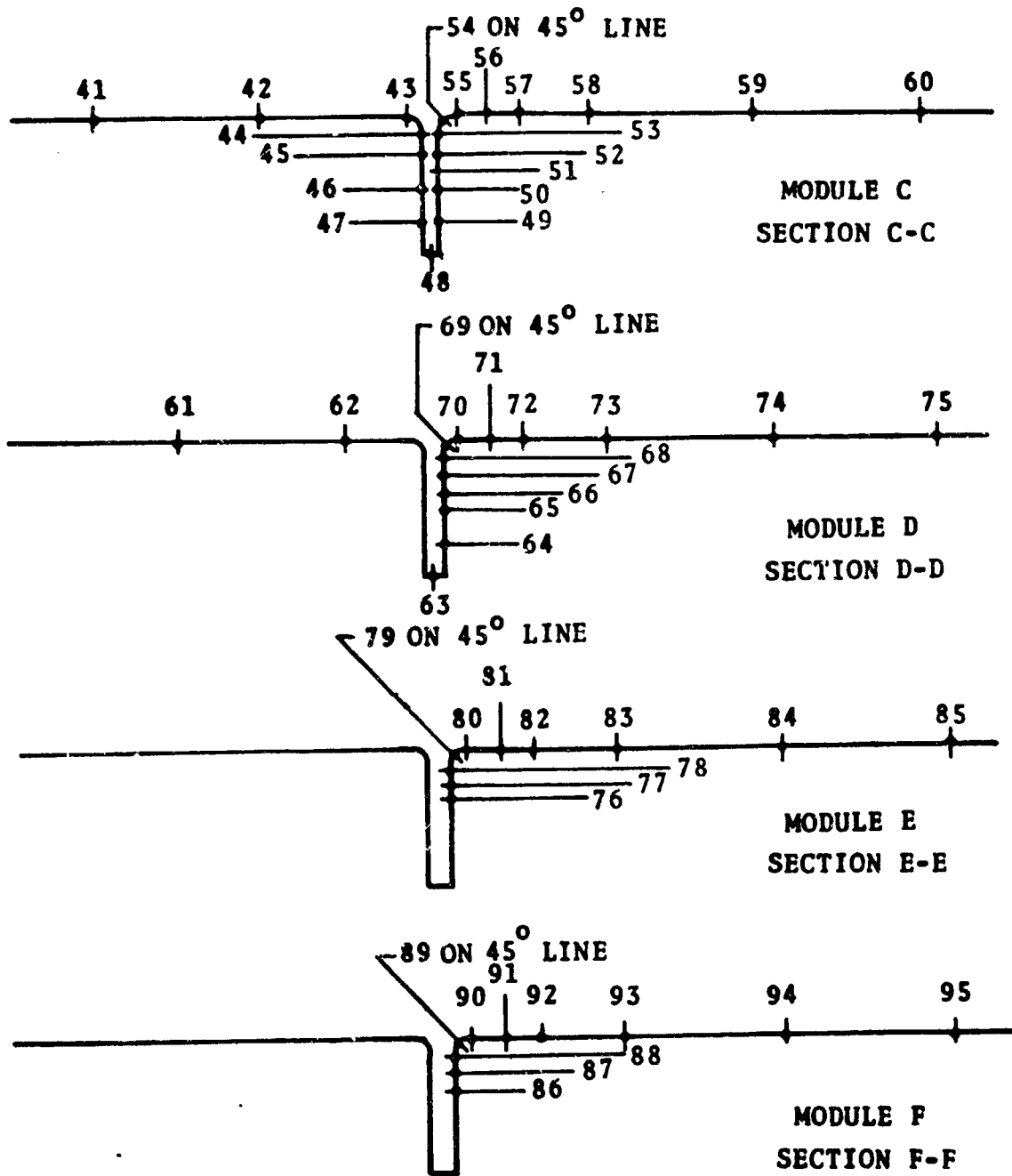
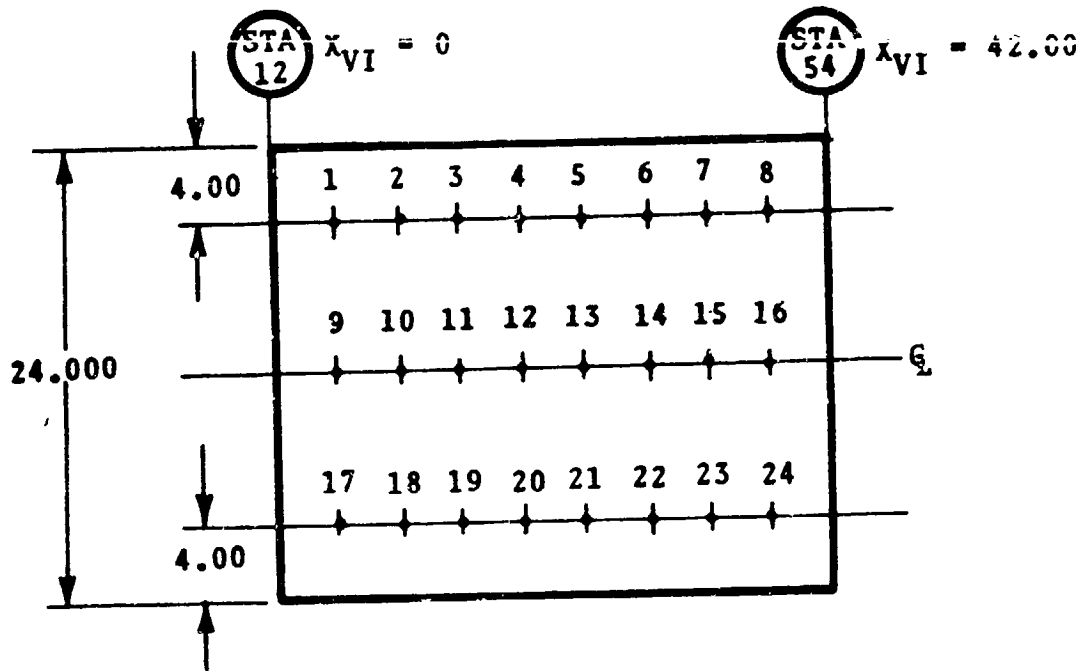


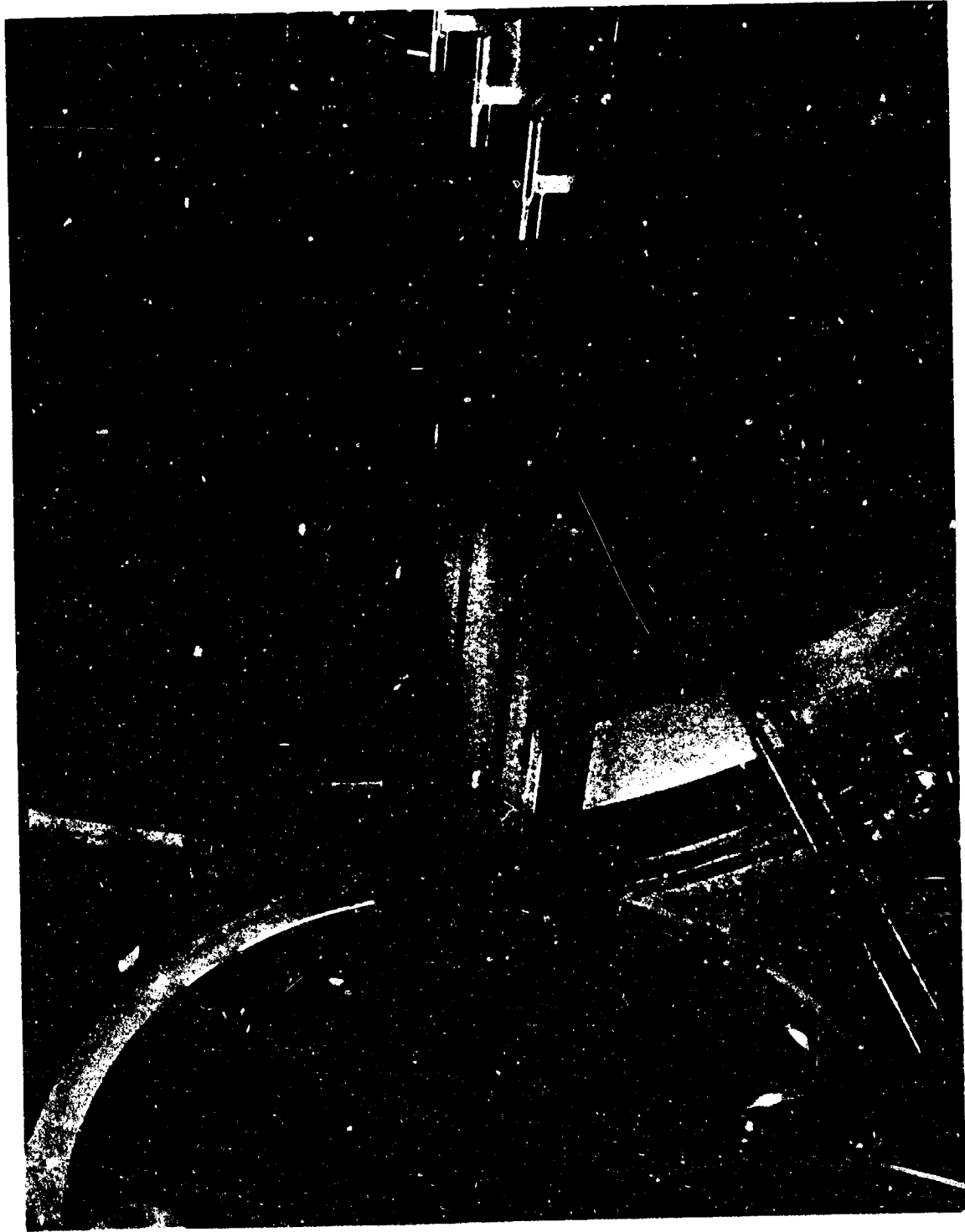
Figure 8. - INSERT NO. VI
PRESSURE INSERT



8 PRESSURE TRANSDUCERS PER LINE - 24 TOTAL
STATHEM 208 ABSOLUTE

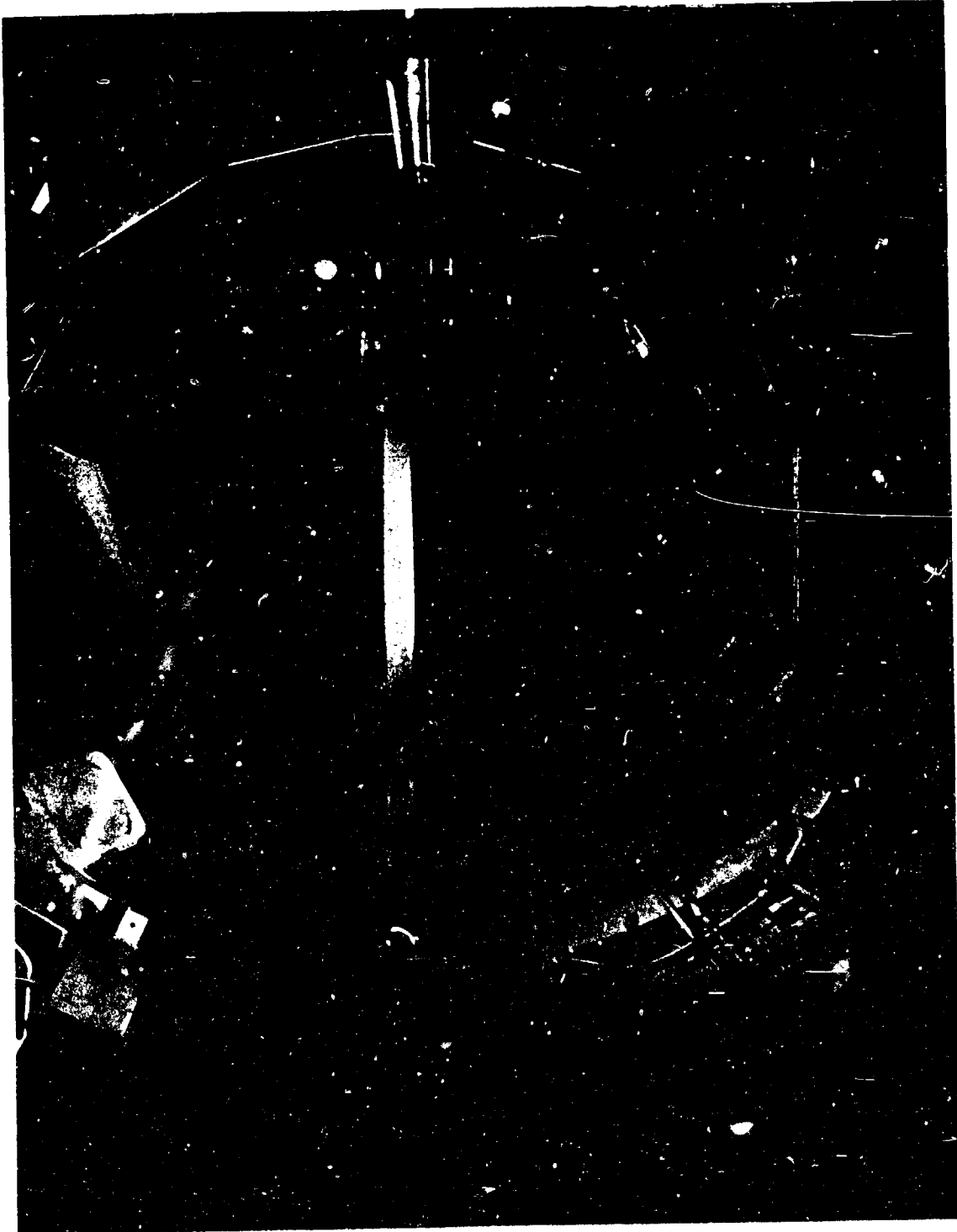
Note: All dimensions in inches.

TRANSDUCER	X INCHES	TRANSDUCER	X INCHES
1	16.672	13	35.330
2	21.341	14	40.000
3	25.997	15	44.655
4	30.670	16	49.328
5	35.334	17	16.671
6	39.997	18	21.333
7	44.667	19	26.000
8	49.327	20	30.668
9	16.677	21	35.333
10	21.337	22	39.996
11	26.001	23	44.658
12	30.665	24	49.328



(a) Rear view

Figure 9. - Model photograph.



(b) Side view

Figure 9. - Concluded.

TABULATED DATA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 6
 Commitment Set 211

MACH 5.10
 REL LENGTH(C6) 1.2095E 06
 REL LENGTH(C5) 1.2095E 06
 REL LENGTH(C6) 3.000
 REL LENGTH(C5) 3.000
 PT(ATM) 4.46
 PT(P51) 65.53
 T1(DEG K) 1171.5
 T1(DEG R) 2109.2
 RS(METER) 0.3048
 RS(FT) 1.0000
 HAM/HT 1.000
 HAM/HT 1.000
 HM/HT 534.66

CHAN	T/C	U/QS	F/H-S(I-L-C-C-O)	H/H-S(O.907)	H/H-S(O.874)	CHAN	T/C	HM/HT	O/QS	H/H-S(I.000)	H/H-S(O.907)	H/H-S(O.874)
1	1	C.0004	C.0004	0.0005	0.0005	11	11	0.242	0.0363	0.0363	0.0414	0.0435
2	2	C.0052	0.0052	0.0059	0.0062	12	12	0.242	0.0297	0.0297	0.0339	0.0356
3	3	C.0257	0.0257	0.0293	0.0309	13	13	0.242	0.0440	0.0440	0.0502	0.0528
4	4	C.0279	0.0279	0.0318	0.0335	14	14	0.242	0.0446	0.0446	0.0508	0.0535
5	5	C.0320	0.0320	0.0365	0.0384	15	15	0.242	0.0433	0.0433	0.0493	0.0519
6	6	C.0378	0.0378	0.0421	0.0453	16	16	0.241	0.0034	-0.0034	-0.0039	-0.0041
7	7	C.0475	0.0475	0.0541	0.0569	17	17	0.241	0.0047	-0.0047	-0.0054	-0.0056
8	8	C.0466	0.0466	0.0531	0.0559	18	18	0.241	0.0048	-0.0048	-0.0055	-0.0057
9	9	C.0420	0.0420	0.0479	0.0504	19	19	0.241	0.0044	-0.0044	-0.0050	-0.0052
10	10	C.0395	0.0395	0.0450	0.0473	20	20	0.241	0.0005	-0.0005	-0.0006	-0.0006

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACH RE/METER REL LENGTH(METER) PT(LATM) TT(DEG K) H' (JULE/KG) R(METER) HAN/HT TEST NO. 158
 5.10 1.3227E C6 1.2095E C6 4.46 1171.8 1-2433E C6 0.3048 1.CCO RUN NU. 6
 PACH RE/FT REL LENGTH(FT) PT(PSSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAN/HT
 5.10 4.0317E C5 1.2095E C6 3.000 65.53 2109.2 534.66 1.0000 1.300

CHAN	T/C	IN(DEC I)	TW(DEC R)	L(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTM/FT2-SEC)	S(I0.907)	ST(I0.874)	TIME(SEC)
1	1	298.4	537.2	0.004	0.003	8.656	7.627	2.3975E-06	2.5225E-06	-10.265
2	2	299.1	538.4	0.045	0.039	8.649	7.621	3.0577E-05	3.2173E-05	-1.063
3	3	299.7	539.5	0.222	0.196	8.642	7.615	1.5246E-04	1.6042E-04	-0.420
4	4	299.5	539.1	0.241	0.213	8.645	7.617	1.6556E-04	1.7419E-04	-0.849
5	5	299.7	539.4	0.277	0.244	8.643	7.616	1.8981E-04	1.9972E-04	-1.375
6	6	300.1	540.1	0.326	0.288	8.639	7.612	2.2389E-04	2.3559E-04	-1.212
7	7	299.7	539.4	0.410	0.361	8.643	7.616	2.8125E-04	2.9594E-04	-0.707
8	8	299.6	539.7	0.402	0.355	8.642	7.615	2.7602E-04	2.9043E-04	-0.457
9	9	299.2	538.8	0.364	0.320	8.647	7.619	2.4919E-04	2.6219E-04	-0.564
10	10	298.5	537.3	0.342	0.301	8.655	7.626	2.3389E-04	2.4604E-04	-0.636
11	11	299.7	539.4	0.314	0.276	8.643	7.616	2.1503E-04	2.2626E-04	-0.739
12	12	299.5	539.5	0.297	0.226	8.641	7.614	1.7603E-04	1.8322E-04	-1.045
13	13	299.2	538.5	0.381	0.335	8.648	7.620	2.6080E-04	2.7441E-04	-0.358
14	14	299.8	539.7	0.385	0.340	8.642	7.615	2.6427E-04	2.7807E-04	-0.298
15	15	299.4	538.9	0.374	0.330	8.646	7.618	2.5535E-04	2.6973E-04	-0.320
16	16	298.4	537.1	-0.029	-0.026	8.656	7.627	-2.0023E-05	-2.1060E-05	2.130
17	17	298.4	537.2	-0.041	-0.036	8.655	7.626	-2.7907E-05	-2.9362E-05	1.618
18	18	298.9	538.0	-0.041	-0.037	8.651	7.623	-2.8377E-05	-2.9858E-05	2.449
19	19	298.5	537.2	-0.038	-0.033	8.655	7.626	-2.5812E-05	-2.7158E-05	2.982
20	20	298.7	537.6	-0.004	-0.004	8.653	7.625	-3.0321E-06	-3.1022E-06	62.886

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1235E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 1-3463E C6 1-231CE C6 0.914 4.46 1159.7 1.2292E C6 0.3048 1.000 TEST NO. 158

MACH 5.10 4.1335E C5 1-231CE C6 3.000 65.53 2087.4 528.58 1.0000 1.0000 HAW/HT 1.000 RUN NO. 6

CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	F/HS(10.907)	H/HS(10.874)	CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(10.907)	H/HS(10.874)
21	61	C.245	C.CC91	0.0051	0.0104	0.0110	39	39	0.245	0.0303	C.C303	0.0345	0.0364
22	62	0.244	-C.CC01	-0.0001	-0.0001	-0.0001	40	40	0.245	0.0320	0.0320	0.0365	0.0384
23	63	0.244	-C.CC29	-0.0029	-0.0034	-0.0035	41	41	0.246	0.0641	0.0641	0.0731	0.0770
24	64	0.244	-C.CC14	-0.0014	-0.0016	-0.0017	42	42	0.246	0.0663	0.0663	0.0757	0.0797
25	65	0.048	C.CC00	0.0000	0.0000	0.0000	43	43	0.246	0.0572	0.0572	0.0652	0.0686
26	26	0.048	C.CC00	0.0000	0.0000	0.0000	44	44	0.246	0.0525	0.0525	0.0599	0.0630
27	27	C.048	-C.CC01	-0.0001	-0.0001	-0.0001	45	45	0.246	0.0523	0.0523	0.0597	0.0628
28	28	C.048	-C.CC01	-0.0001	-0.0001	-0.0001	46	46	0.246	0.0442	0.0442	0.0505	0.0531
29	29	0.243	-C.CC30	-0.0030	-0.0034	-0.0036	47	47	0.246	0.0502	0.0502	0.0573	0.0603
30	30	C.048	C.CC00	0.0000	0.0000	0.0000	48	48	0.245	0.0479	0.0479	0.0546	0.0575
31	31	0.243	-C.CC93	-0.0093	-0.0106	-0.0112	49	49	0.245	0.0456	0.0456	0.0565	0.0595
32	32	0.243	-C.CC30	-0.0030	-0.0148	-0.0156	50	50	0.245	0.0483	0.0483	0.0551	0.0580
33	33	C.244	-C.CC11	-0.0011	-0.0012	-0.0013	51	51	0.244	-0.0078	-0.0078	-0.0089	-0.0094
34	34	0.245	-C.CC09	-0.0009	-0.0010	-0.0010	52	52	0.244	-0.0062	-0.0062	-0.0071	-0.0074
35	35	C.244	-C.CC15	-0.0015	-0.0017	-0.0018	53	53	0.244	0.0009	0.0009	0.0011	0.0011
36	36	0.245	-C.CC01	-0.0001	-0.0002	-0.0002	54	54	0.245	0.0084	0.0084	0.0096	0.0101
37	37	0.245	C.CC61	0.0061	0.0065	0.0073	55	55	0.246	0.0317	0.0317	0.0332	0.0381
38	38	0.245	C.CC70	0.0070	0.0307	0.0324							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 6
 PACH RE/METER REL LENGTH(METER) PT(ATM) T(DEG K) FT(JOULE/KG) RS(METER) MAW/HT
 5.10 1.3463E C6 1.2310E 06 0.914 4.46 1.2292E 06 0.3048 1.000
 PACH RE/FT REL LENGTH(FT) P(TPSI) T(DEG R) HT(LBTL/LBM) MS(FT) MAW/HT
 5.10 4.1033E C6 1.2310E C6 3.000 65.53 2087.4 528.58 1.6000 1.000

CHAN	T/C	T(DEG K)	T(DEG R)	Q(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(LBTU/FT2-SEC)	ST(C-907)	ST(O-874)	TIME(SEC)
21	61	298.4	538.9	0.078	0.069	8.518	7.505	5.3711E-05	5.6527E-05	-1.681
22	62	258.8	537.8	-0.001	-0.001	8.524	7.511	-6.7311E-07	-7.0838E-07	73.462
23	63	258.8	537.5	-0.025	-0.022	8.523	7.510	-1.7338E-05	-1.8247E-05	2.690
24	64	298.4	537.1	-0.012	-0.010	8.528	7.514	-8.2082E-06	-8.6381E-06	2.590
25	65	258.8	537.1	0.000	0.000	10.893	5.599	0.0000E-39	0.0000E-39	*****
26	66	55.0	106.2	0.000	0.000	10.890	9.596	4.3332E-09	4.5054E-09	*****
27	67	55.0	106.2	-0.001	-0.001	10.893	9.598	-6.6279E-07	-6.8928E-07	*****
28	68	297.6	535.5	-0.001	-0.001	10.893	9.598	-6.0602E-07	-6.3024E-07	*****
29	69	297.6	535.6	-0.026	-0.023	8.536	7.521	-1.7605E-05	-1.8526E-05	2.012
30	70	58.8	105.8	0.000	0.000	10.895	9.600	1.4061E-07	1.4623E-07	*****
31	71	257.6	535.7	-0.080	-0.070	8.535	7.521	-5.4921E-05	-5.7794E-05	0.915
32	72	297.1	534.8	-0.111	-0.098	8.540	7.525	-7.6356E-05	-8.0347E-05	0.995
33	73	258.8	537.9	-0.009	-0.008	8.523	7.510	-6.5378E-06	-6.6699E-06	4.535
34	74	258.8	538.8	-0.007	-0.007	8.518	7.506	-5.1390E-06	-5.4083E-06	7.601
35	75	258.5	538.0	-0.012	-0.011	8.523	7.510	-8.6106E-06	-9.0618E-06	5.874
36	76	259.5	539.0	-0.001	-0.001	8.517	7.505	-8.2564E-07	-8.6894E-07	61.032
37	77	259.6	539.2	0.052	0.045	8.516	7.504	3.5644E-05	3.7513E-05	-1.598
38	78	255.8	539.6	0.230	0.202	8.514	7.502	1.5863E-04	1.6695E-04	-0.800
39	79	255.8	539.6	0.258	0.227	8.514	7.502	1.7820E-04	1.8755E-04	-1.266
40	80	259.8	539.7	0.272	0.240	8.514	7.502	1.8816E-04	1.9803E-04	-1.772
41	81	300.5	541.0	0.545	0.481	8.506	7.495	3.7730E-04	3.9712E-04	-0.450
42	82	301.0	541.9	0.564	0.497	8.502	7.491	3.9038E-04	4.1090E-04	-0.459
43	83	301.2	542.3	0.486	0.428	8.499	7.489	3.3634E-04	3.5402E-04	-0.397
44	84	301.2	542.3	0.446	0.373	8.495	7.489	3.0895E-04	3.2518E-04	-0.472
45	85	301.0	542.8	0.444	0.392	8.496	7.486	3.0773E-04	3.2391E-04	-0.175
46	86	300.5	541.0	0.376	0.332	8.506	7.495	2.6033E-04	2.7400E-04	-0.544
47	87	300.6	541.0	0.427	0.377	8.506	7.495	2.9564E-04	3.1117E-04	-0.383
48	88	300.3	540.5	0.408	0.359	8.509	7.498	2.8187E-04	2.9666E-04	-0.349
49	89	300.3	540.5	0.422	0.372	8.509	7.497	2.9157E-04	3.0687E-04	-0.294
50	90	255.5	535.8	0.411	0.363	8.513	7.501	2.8437E-04	2.9929E-04	-0.246
51	91	258.7	537.7	-0.067	-0.059	8.525	7.511	-4.6076E-05	-4.8437E-05	1.305
52	92	258.9	538.1	-0.053	-0.047	8.522	7.509	-3.6438E-05	-3.8347E-05	1.317
53	93	259.0	538.2	0.008	0.007	8.532	7.509	5.4808E-06	5.7680E-06	-3.606
54	94	300.1	540.1	0.072	0.063	8.511	7.499	4.9440E-05	5.2035E-05	-0.214
55	95	300.5	540.5	0.270	0.238	8.507	7.496	1.8562E-04	1.9642E-04	-0.432

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1375E-01 (SLUGS/FT2-SEC)
 PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
TEST NO. 158										RUN NO. 6					
PACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TI(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	158	RS(METER)	HAW/HT	1.000	TEST NO.	6
5.10	1.2227E C6	1.2095E C6	0.914	4.46	1171.8	1.2433E C6	0.3048	1.000	1.000	1.000	0.3048	1.000	1.000	1.000	1.000
PACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TI(CEG R)	FT(RTU/LBM)	RS(FT)	HAW/HT	1.0000	1.0000	RS(FT)	HAW/HT	1.0000	1.0000	1.0000
5.10	0.0317E C5	1.2095E C6	3.000	65.93	2109.2	594.66	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
CHAN	T/C	FW/FT	Q/GS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/GS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	0.0498	0.0498
56	71	0.242	0.0020	0.0023	0.0022	0.0023	66	81	0.244	0.0415	0.0415	0.0473	0.0473	0.0704	0.0704
57	72	0.241	0.0002	0.0002	0.0002	0.0002	67	82	0.244	0.0587	0.0587	0.0669	0.0669	0.0608	0.0608
58	73	0.242	0.0008	0.0009	0.0009	0.0009	68	83	0.244	0.0506	0.0506	0.0577	0.0577	0.0555	0.0555
59	74	0.242	0.0001	0.0002	0.0002	0.0002	69	84	0.245	0.0462	0.0462	0.0527	0.0527	0.0510	0.0510
60	75	0.242	-0.0014	-0.0016	-0.0016	-0.0016	70	85	0.245	0.0425	0.0425	0.0485	0.0485	0.0481	0.0481
61	76	0.242	-0.0057	-0.0059	-0.0059	-0.0059	71	86	0.245	0.0401	0.0401	0.0457	0.0457	0.0488	0.0488
62	77	0.242	-0.0041	-0.0047	-0.0047	-0.0047	72	87	0.246	0.0406	0.0406	0.0463	0.0463	0.0511	0.0511
63	78	0.242	-0.0101	-0.0115	-0.0115	-0.0115	73	88	0.246	0.0425	0.0425	0.0485	0.0485	0.0388	0.0388
64	79	0.243	-0.0134	-0.0153	-0.0153	-0.0153	74	89	0.246	0.0323	0.0323	0.0368	0.0368	0.0382	0.0382
65	80	0.243	0.0264	0.0302	0.0302	0.0302	75	90	0.246	0.0318	0.0318	0.0363	0.0363	0.0382	0.0382

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 1.2055F C6 REL LENGTH (PIETER) P(TIATM) Y(DEC K) FT(JOULE/KG) RS(METER) PAW/HT TEST NO. 158
 MACH 5.10 RE/FT 4.0317E C5 REL LENGTH(FT) 3.000 0.914 4.46 1171.8 1.2433E 06 0.3048 1.000 1.000
 4.0317E C5 1.2055E 06 3.000 65.53 2109.2 534.66 534.66 1.000 1.000

CHAN	T/C	TM(DEC K)	TM(DEC R)	LN(CM2)	C(BTU/FT2-SEC)	Q(S(W/CM2))	QS(BTU/FT2-SEC)	ST10.5071	ST10.874	TIME(SEC)
56	71	259.1	538.4	0.015	0.015	8.649	7.621	1.1576E-05	1.2180E-05	3.796
57	72	258.5	538.0	0.002	0.001	8.651	7.623	1.1163E-06	1.1746E-06	-11.446
58	73	259.2	538.7	0.007	0.006	8.647	7.619	4.6164E-06	4.8573E-06	-1.525
59	74	259.3	538.8	0.001	0.001	8.647	7.619	8.5633E-07	9.0135E-07	-25.024
60	75	259.6	539.6	-0.012	-0.011	8.642	7.615	-8.1915E-06	-8.6194E-06	4.708
61	76	259.5	539.8	-0.044	-0.039	8.641	7.614	-3.0475E-05	-3.2065E-05	2.511
62	77	255.7	535.5	-0.036	-0.032	8.642	7.615	-2.4559E-05	-2.5841E-05	3.245
63	78	260.0	539.9	-0.087	-0.077	8.640	7.613	-5.9701E-05	-6.2820E-05	2.159
64	79	260.2	540.4	-0.116	-0.102	8.638	7.611	-7.9556E-05	-8.3713E-05	2.073
65	80	261.0	541.9	0.228	0.201	8.630	7.604	1.5675E-04	1.6495E-04	-1.108
66	81	261.5	542.7	0.358	0.316	8.625	7.600	2.4614E-04	2.5903E-04	-1.320
67	82	261.5	543.5	0.506	0.446	8.621	7.596	3.4798E-04	3.6620E-04	-0.819
68	83	262.4	544.4	0.436	0.384	8.616	7.592	3.0008E-04	3.1580E-04	-0.947
69	84	262.8	545.0	0.398	0.351	8.612	7.589	2.7416E-04	2.8853E-04	-1.157
70	85	263.1	545.6	0.386	0.322	8.609	7.586	2.5188E-04	2.6509E-04	-1.420
71	86	263.4	546.1	0.345	0.304	8.607	7.584	2.3749E-04	2.4995E-04	-1.568
72	87	263.6	546.5	0.350	0.308	8.604	7.582	2.4089E-04	2.5364E-04	-1.592
73	88	264.5	548.1	0.366	0.322	8.596	7.574	2.5212E-04	2.6537E-04	-1.515
74	89	264.7	548.5	0.278	0.245	8.593	7.572	1.9147E-04	2.0153E-04	-2.573
75	90	264.2	547.5	0.274	0.241	8.599	7.577	1.8863E-04	1.9854E-04	-2.248

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1235E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 7
 HAW/HT 1.000
 HAW/HT CONSTANT 2.11
 HAW/HT 1.000

PACH	REL	Q/CS	H/HS(1.000)	H/HS(0.907)	F/HS(0.874)	CFAN	T/C	HW/HT	Q/AS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
5.10	2.466CE C6	2.2549E 06	0.914	8.21	1163.3	1.233E 06	0.3048	RS(LFT)	1.0000	0.0341	0.0287	0.0359
5.10	7.5182E C5	2.2549E C6	3.000	120.66	2093.9	530.37	1.0000	RS(LFT)	1.0000	0.0251	0.0434	0.0478
1	C.245	-C.C619	-0.0019	-0.0022	0.0061	11	11	0.248	0.0299	0.0299	0.0341	0.0359
2	C.246	C.C051	0.0051	0.0058	0.0061	12	12	0.248	0.0251	0.0251	0.0287	0.0302
3	C.247	C.0235	0.0235	0.0268	0.0282	13	13	0.247	0.0368	0.0398	0.0434	0.0478
4	C.247	0.0220	0.0220	0.0251	0.0264	14	14	0.248	0.0409	0.0409	0.0467	0.0491
5	0.248	C.C209	0.0209	0.0238	0.0251	15	15	0.247	0.0405	0.0405	0.0463	0.0487
6	0.248	C.C230	0.0230	0.0262	0.0276	16	16	0.245	-0.0034	-0.0044	-0.0050	-0.0053
7	C.248	C.0370	0.0370	0.0423	0.0445	17	17	0.245	-0.0062	-0.0062	-0.0071	-0.0074
8	0.248	0.0425	0.0425	0.0485	0.0511	18	18	0.246	-0.0049	-0.0049	-0.0056	-0.0058
9	0.248	C.C190	0.0390	0.0445	0.0468	19	19	0.246	-0.0062	-0.0062	-0.0070	-0.0074
10	10	C.0335	0.0335	0.0382	0.0403	20	20	0.247	-0.0083	-0.0083	-0.0095	-0.0100

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACH RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) TT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 2.446E C6 2.254E C6 0.914 8.21 1163.3 1.233E 06 0.3048 1.000 HAM/HT RUN NO. 7
 MACH REL LENGTH(FT) REL LENGTH(FT) PT(PSI) TT(DEG R) TT(BTU/LBM) RS(FT) HAM/HT
 5.10 7.514E C5 2.254E C6 3.000 120.66 2093.9 530.37 1.0000 1.000

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	300.9	541.5	-0.022	-0.020	11.590	10.212	-8.3105E-06	-8.7991E-06	0.636
2	2	302.6	544.7	0.059	0.052	11.566	10.192	2.2136E-05	2.3405E-05	0.601
3	3	303.7	546.7	0.271	0.239	11.581	10.178	1.0213E-04	1.0750E-04	0.187
4	4	303.8	546.8	0.254	0.224	11.590	10.177	9.5463E-05	1.0849E-04	-0.576
5	5	304.3	547.8	0.241	0.212	11.541	10.171	9.0771E-05	9.5855E-05	-2.024
6	6	305.1	549.1	0.265	0.234	11.533	10.163	9.9902E-05	1.0526E-04	-2.106
7	7	304.7	548.4	0.427	0.376	11.539	10.167	1.6096E-04	1.6945E-04	-0.886
8	8	305.0	549.1	0.490	0.432	11.534	10.163	1.8486E-04	1.9461E-04	-0.167
9	9	304.2	548.1	0.450	0.396	11.541	10.169	1.6943E-04	1.7836E-04	-0.208
10	10	303.1	546.2	0.387	0.341	11.555	10.181	1.4567E-04	1.5333E-04	-0.333
11	11	304.4	547.5	0.345	0.304	11.542	10.170	1.2985E-04	1.3670E-04	-0.527
12	12	305.8	548.6	0.290	0.255	11.537	10.166	1.0925E-04	1.1501E-04	-0.766
13	13	303.6	546.5	0.459	0.405	11.533	10.179	1.7284E-04	1.8194E-04	-0.192
14	14	304.1	547.3	0.472	0.416	11.547	10.174	1.7772E-04	1.8706E-04	-0.172
15	15	302.5	545.4	0.449	0.413	11.561	10.187	1.7624E-04	1.8551E-04	-0.268
16	16	300.4	540.6	-0.051	-0.045	11.596	10.218	-1.9131E-05	-2.0155E-05	0.924
17	17	300.5	540.9	-0.072	-0.069	11.594	10.216	-2.6520E-05	-2.8332E-05	0.753
18	18	301.7	543.1	-0.056	-0.050	11.578	10.202	-2.1146E-05	-2.2257E-05	0.918
19	19	301.5	543.4	-0.071	-0.063	11.576	10.200	-2.6811E-05	-2.8219E-05	0.713
20	20	302.6	545.0	-0.056	-0.049	11.564	10.189	-3.6295E-05	-3.8109E-05	2.472

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0803E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 5.10 2.4789E C4 2.2667E C6 3.000 120.66 2087.4 528.58
 RE/METER REL LENGTH(METER) P(ATM) T(C)EG K) P(T)Joule/KG) RS(METER) MAW/HT 1.000
 MACH 5.10 7.9595E C5 2.2667E C6 3.000 120.66 2087.4 528.58
 RE/FEET REL LENGTH(FT) P(P)SI) T(D)EG R) H(T)BU/LBP) RS(FT) MAW/HT 1.000

CHAN	T/C	INDEG K)	INDEG R)	Q(W/CM2)	G(LTU/FT2-EC)	Q(S(W/CM2)	Q(S(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
21	61	302.5	544.5	0.079	0.070	11.517	10.148	2.9757E-05	3.1323E-05	0.356
22	62	301.3	542.3	-0.009	-0.008	11.533	10.162	-3.4010E-06	-3.5798E-06	0.351
23	63	300.6	541.5	-0.023	-0.020	11.539	10.167	-8.6774E-06	-9.1832E-06	0.120
24	64	299.7	539.5	-0.029	-0.026	11.554	10.180	-1.0910E-05	-1.1482E-05	0.221
25		-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****
26	26	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****
27	27	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****
28	28	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****
29	29	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****
30	30	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****
31	31	298.9	538.0	-0.120	-0.106	11.565	10.190	-4.5065E-05	-4.7426E-05	0.593
32	32	298.8	537.8	-0.155	-0.137	11.566	10.192	-5.8128E-05	-6.1173E-05	0.655
33	33	300.5	541.6	-0.006	-0.005	11.538	10.166	-2.1399E-06	-2.2523E-06	0.868
34	34	301.8	543.2	-0.013	-0.012	11.526	10.156	-5.0056E-06	-5.2691E-06	0.536
35	35	302.5	542.7	-0.022	-0.020	11.530	10.160	-6.3929E-06	-6.8341E-06	0.343
36	36	302.6	544.7	0.016	0.014	11.519	10.146	6.0762E-06	6.3962E-06	0.962
37	37	303.3	546.0	0.087	0.077	11.505	10.138	3.2789E-05	3.4517E-05	0.562
38	38	304.0	547.1	0.317	0.280	11.497	10.130	1.1978E-04	1.2610E-04	0.217
39	39	304.8	548.8	0.249	0.219	11.499	10.132	9.3737E-05	9.8660E-05	0.200
40	40	304.8	548.6	0.212	0.187	11.486	10.121	8.0236E-05	8.4472E-05	0.2494
41	41	305.6	548.2	0.638	0.562	11.489	10.123	2.4096E-04	2.5368E-04	0.409
42	42	306.1	551.0	0.713	0.628	11.468	10.105	2.6955E-04	2.8381E-04	0.195
43	43	306.6	551.9	0.618	0.544	11.461	10.099	2.3379E-04	2.4616E-04	0.100
44	44	306.7	552.0	0.579	0.510	11.461	10.099	2.1917E-04	2.3077E-04	0.123
45	45	305.7	550.2	0.558	0.491	11.474	10.110	2.1079E-04	2.2193E-04	0.079
46	46	305.3	549.6	0.462	0.407	11.479	10.114	1.7461E-04	1.8383E-04	0.053
47	47	305.2	549.3	0.537	0.473	11.480	10.116	2.0301E-04	2.1373E-04	0.062
48	48	304.7	548.4	0.509	0.449	11.487	10.122	1.9228E-04	2.0244E-04	0.075
49	49	304.7	548.5	0.519	0.457	11.486	10.121	1.9581E-04	2.0615E-04	0.051
50	50	304.1	547.4	0.533	0.470	11.495	10.129	2.0111E-04	2.1172E-04	0.092
51	65	300.8	541.4	-0.091	-0.080	11.540	10.168	-3.4076E-05	-3.5866E-05	0.491
52	66	301.6	542.4	-0.117	-0.103	11.529	10.158	-4.4148E-05	-4.6470E-05	0.568
53	67	301.2	542.2	-0.005	-0.004	11.534	10.163	-1.9027E-06	-2.0027E-06	0.627
54	68	303.4	546.1	0.071	0.063	11.505	10.137	2.6871E-05	2.8287E-05	0.859
55	69	304.4	548.0	0.343	0.302	11.491	10.125	1.2957E-04	1.3641E-04	0.205

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0852E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACH 2.418E C6 2.211E C6 0.914 8.21 1176.8 1.2491E 06 1.000 HAW/MT TEST NO. 158
 MACP RE/FT REL LENGTH(FT) PI(PST) TT(DEG R) MT(LBU/LBM) RS(FT) HAW/MT RUN NO. 7
 5.10 7.37CIE C5 2.2110E 06 3.000 120.66 2118.2 597.15 1.0000 1.0000

CHAN	T/C	FN/FT	C/C5	F/H5(1.000)	F/H5(0.907)	F/H5(0.874)	CHAN	T/C	HM/MT	U/QS	H/H5(1.000)	H/H5(0.907)	H/H5(0.874)
56	71	C.242	-C.C010	-0.0010	-0.0012	-0.0012	66	81	0.246	0.0401	0.0401	0.0458	0.0432
57	72	C.242	-C.C623	-0.0023	-0.0026	-0.0027	67	82	0.247	0.0542	0.0542	0.0618	0.0631
58	73	0.242	-C.C623	-0.0033	-0.0038	-0.0040	68	83	0.248	0.0525	0.0525	0.0599	0.0631
59	74	0.243	-C.C014	-0.0014	-0.0016	-0.0016	69	84	0.248	0.0474	0.0474	0.0541	0.0570
60	75	0.243	-0.0042	-0.0042	-0.0047	-0.0050	70	85	0.249	0.0408	0.0408	0.0485	0.0490
61	76	C.244	-C.C659	-0.0059	-0.0067	-0.0071	71	86	0.250	0.0407	0.0407	0.0465	0.0490
62	77	0.244	-C.C660	-0.0060	-0.0065	-0.0072	72	87	0.250	0.0443	0.0443	0.0506	0.0533
63	78	C.245	-C.0127	-0.0127	-0.0144	-0.0152	73	88	0.251	0.0247	0.0247	0.0282	0.0297
64	79	C.245	-C.0182	-0.0182	-0.0207	-0.0218	74	89	0.252	0.0354	0.0354	0.0405	0.0426
65	80	C.246	C.0268	0.0268	0.0305	0.0321	75	90	0.251	0.0360	0.0360	0.0411	0.0432

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACH REPMETER REL LENGTH(METER) PT(ATM) TT(CEG K) HI(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 5-10 2-418CE C6 2-2110E C6 0-914 1176.8 1-2451E C6 0-3048 1-000 RUN NO. 7
 MACH REAFY REL LENGTH(FT) PI(PSI) TI(CEG P) HI(BTU/LBM) RS(FT) HAW/HT
 5-10 7-3791E C9 2-2110E C6 3-030 2118.2 537.15 1-0000 1-000

CHAN	T/C	IN(DEC K)	TW(DEC R)	C(W/CM2)	L(BTU/FT2-SEC)	CS(W/CM2)	GS(BTU/FT2-SEC)	SI(0.907)	ST(0.674)	TIME(SEC)
56	71	300.9	541.7	-0.012	-0.011	11.783	10.382	-4.5360E-06	-4.7720E-06	-1.837
57	72	301.1	542.0	-0.027	-0.024	11.780	10.380	-1.0040E-05	-1.0564E-05	-0.058
58	73	301.6	542.8	-0.039	-0.034	11.774	10.375	-1.4437E-05	-1.5192E-05	0.311
59	74	302.0	543.5	-0.016	-0.014	11.769	10.370	-6.0095E-06	-6.3237E-06	-0.468
60	75	302.7	544.8	-0.049	-0.043	11.760	10.362	-1.8194E-05	-1.9146E-05	0.839
61	76	303.2	545.9	-0.069	-0.061	11.751	10.355	-2.5751E-05	-2.7100E-05	0.883
62	77	303.5	546.3	-0.071	-0.062	11.749	10.352	-2.6367E-05	-2.7748E-05	0.883
63	78	304.2	547.5	-0.149	-0.131	11.739	10.344	-5.5465E-05	-5.8373E-05	1.023
64	79	305.2	548.6	-0.213	-0.188	11.721	10.337	-7.9647E-05	-8.3826E-05	1.058
65	80	305.3	549.6	0.314	0.276	11.724	10.330	1.1730E-04	1.2346E-04	0.089
66	81	306.5	551.8	0.470	0.414	11.708	10.316	1.7594E-04	1.8519E-04	-0.514
67	82	307.4	553.3	0.634	0.559	11.696	10.306	2.3759E-04	2.5010E-04	-0.308
68	83	308.3	554.9	0.814	0.741	11.684	10.295	2.3019E-04	2.4232E-04	-0.009
69	84	309.0	556.2	0.984	0.888	11.675	10.287	2.0785E-04	2.1881E-04	-0.088
70	85	309.3	557.5	0.475	0.419	11.665	10.278	1.7845E-04	1.8809E-04	-0.250
71	86	310.3	558.8	0.475	0.418	11.657	10.272	1.7859E-04	1.8803E-04	-0.195
72	87	310.8	559.5	0.516	0.455	11.650	10.265	1.9426E-04	2.0465E-04	-0.074
73	88	312.4	562.3	0.287	0.253	11.629	10.247	1.0834E-04	1.1410E-04	-1.111
74	89	313.4	564.1	0.412	0.363	11.616	10.235	1.5549E-04	1.6367E-04	-0.408
75	90	312.5	562.5	0.418	0.368	11.628	10.246	1.5769E-04	1.6604E-04	-0.345

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0619E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 3.6278E 06 REL 3.2173E 06 LENGTH(METER) 0.914 P(ATM) 11.87 TT(DEG K) 1151.8 HT(JOULE/KG) 1.2200E 06 RS(METER) 0.3048 HAM/HT 1.000 TEST NO. 158
 MACH 3.10 RE/FT 1.1058E 06 REL 3.3173E 06 LENGTH(FT) 3.000 P(PSIA) 474.50 TT(DEG R) 2073.3 HT(LB/IN/LBM) 524.64 RS(FT) 1.000 RUN NO. 8

CHAN	I/C	HM/HT	G/OS	H/HS(1.000)	H/HS(0.907)	H/HS(1.000)	H/HS(0.907)	G/OS	HM/HT	I/C	CHAN	I/C	HM/HT	G/OS	H/HS(1.000)	H/HS(0.907)	H/HS(1.000)	H/HS(0.907)	
1	1	C.249	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	0.252	0.0704	11	11	0.252	0.0704	0.0704	0.0704	0.0805	0.0805	0.0647	
2	2	0.250	0.0094	0.0094	0.0167	0.0113	0.0167	0.252	0.0706	12	12	0.252	0.0706	0.0706	0.0706	0.0807	0.0807	0.0849	
3	3	0.251	0.0398	0.0398	0.0435	0.0479	0.0435	0.252	0.1020	13	13	0.252	0.1020	0.1020	0.1162	0.1162	0.1162	0.1227	
4	4	C.251	0.0431	0.0431	0.0492	0.0518	0.0492	0.252	0.1132	14	14	0.252	0.1132	0.1132	0.1292	0.1292	0.1292	0.1361	
5	5	0.252	0.0503	0.0503	0.0574	0.0605	0.0574	0.251	0.1293	15	15	0.251	0.1293	0.1293	0.1476	0.1476	0.1476	0.1555	
6	6	C.252	0.0549	0.0549	0.0627	0.0660	0.0627	0.248	-0.0066	16	16	0.248	-0.0066	-0.0066	-0.0075	-0.0075	-0.0075	-0.0079	
7	7	0.252	0.0750	0.0750	0.0857	0.0902	0.0857	0.248	-0.0094	17	17	0.248	-0.0094	-0.0094	-0.0107	-0.0107	-0.0107	-0.0113	
8	8	0.252	0.0789	0.0789	0.0901	0.0949	0.0901	0.249	-0.0051	18	18	0.249	-0.0051	-0.0051	-0.0058	-0.0058	-0.0058	-0.0061	
9	9	C.252	0.0741	0.0741	0.0846	0.0891	0.0846	0.240	-0.0059	19	19	0.240	-0.0059	-0.0059	-0.0067	-0.0067	-0.0067	-0.0070	
10	10	C.251	0.0698	0.0698	0.0797	0.0839	0.0797	0.250	0.0060	20	20	0.250	0.0060	0.0060	0.0060	0.0060	0.0060	0.0060	0.0072

CONSTANT JOB 277

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA *** 14
 MACH 5.10 3.3173E 06 3.3173E 06 0.514 11.07 TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.1C 1.3258E 06 3.3173E 06 3.000 174.56 Q(SIM/CP2) Q(SIBTU/FT2-SEC) Q(SIBTU/FT2-SEC) ST(U.907) ST(U.874) TIME(SEC)
 1.000 1.000

CHAN	I/C	IM(DEC K)	IM(DEC R)	Q(M/CA2)	Q(RIU/FT2-SEC)	Q(SIM/CP2)	Q(SIBTU/FT2-SEC)	Q(SIBTU/FT2-SEC)	ST(U.907)	ST(U.874)	TIME(SEC)
1	1	301.9	543.4	-0.001	-0.001	13.726	12.094	-3.9597E-07	-4.1686E-07	-9.945	
2	2	303.8	546.9	0.129	0.114	13.695	12.067	3.3780E-05	3.5567E-05	1.035	
3	3	305.1	549.2	0.555	0.480	13.674	12.049	1.4299E-04	1.5057E-04	0.438	
4	4	305.1	549.1	0.589	0.519	13.674	12.049	1.5472E-04	1.6292E-04	0.008	
5	5	305.7	550.3	0.687	0.606	13.664	12.040	1.8057E-04	1.9014E-04	-0.642	
6	6	306.5	551.7	0.749	0.650	13.652	12.029	1.9709E-04	2.0751E-04	-0.752	
7	7	306.1	551.0	1.025	0.903	13.658	12.035	2.6534E-04	2.8363E-04	-0.356	
8	8	306.6	551.9	1.177	0.949	13.650	12.027	2.8315E-04	2.9818E-04	0.194	
9	9	306.2	551.2	1.112	0.891	13.656	12.033	2.6568E-04	2.7999E-04	0.208	
10	10	305.1	549.2	0.955	0.841	13.674	12.049	2.5061E-04	2.6388E-04	0.204	
11	11	306.1	550.9	0.962	0.848	13.659	12.035	2.5287E-04	2.6629E-04	0.160	
12	12	306.6	551.9	0.964	0.849	13.650	12.027	2.5353E-04	2.6699E-04	0.206	
13	13	305.5	550.0	1.394	1.229	13.667	12.042	3.6617E-04	3.8559E-04	0.406	
14	14	306.0	550.8	1.546	1.362	13.659	12.036	4.0617E-04	4.2771E-04	0.439	
15	15	305.0	549.0	1.768	1.558	13.676	12.050	4.6413E-04	4.8872E-04	0.460	
16	16	301.6	542.9	-0.091	-0.080	13.730	12.098	-2.3677E-05	-2.4925E-05	0.738	
17	17	301.3	543.2	-0.229	-0.114	13.728	12.096	-3.3679E-05	-3.5456E-05	0.658	
18	18	303.0	545.4	-0.052	-0.052	13.708	12.079	-1.8343E-05	-1.9315E-05	0.702	
19	19	303.2	545.7	-0.080	-0.071	13.705	12.076	-2.1018E-05	-2.2129E-05	0.376	
20	20	304.3	547.7	0.082	0.072	13.688	12.061	2.1554E-05	2.2695E-05	-0.837	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.0325E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	REF/METER	REL LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.		
5.10	3.5789E 06	3.2786E 06	0.914	1.087	1.2466E 06	C.3048	1.000	158		
MACH	REF/FT	REL LENGTH(FT)	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.		
5.10	1.0695E 06	3.2786E 06	3.700	2114.4	536.08	1.0000	1.000	8		
CHAN	T/C	HW/HT	Q/QS	M/H(SI)GCGJ	M/H(SI)GCGJ	H/PS(2.874)	U/GS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
21	61	0.245	0.0145	0.0165	0.0174	0.0174	0.0522	0.0522	0.0595	0.0627
22	62	0.244	0.0022	0.0025	0.0027	0.0027	0.0552	0.0552	0.0630	0.0663
23	63	0.244	0.0012	0.0014	0.0014	0.0014	0.0554	0.0554	0.1088	0.1145
24	64	0.243	-0.0002	-0.0002	-0.0002	-0.0002	0.1093	0.1093	0.1247	0.1313
25	65	0.243	0.0000	0.0000	0.0000	0.0000	0.0883	0.0883	0.1007	0.1061
26	26	0.243	0.0000	0.0000	0.0000	0.0000	0.0821	0.0821	0.0937	0.0986
27	27	0.243	0.0000	0.0000	0.0000	0.0000	0.0836	0.0836	0.0954	0.1005
28	28	0.243	0.0000	0.0000	0.0000	0.0000	0.0755	0.0755	0.0861	0.0906
29	29	0.242	-0.0002	-0.0002	-0.0002	-0.0002	0.0940	0.0940	0.1073	0.1129
30	30	0.243	0.0000	0.0000	0.0000	0.0000	0.0991	0.0991	0.1131	0.1190
31	31	0.242	-0.0115	-0.0131	-0.0137	-0.0137	0.1118	0.1118	0.1276	0.1343
32	32	0.242	-0.0134	-0.0153	-0.0161	-0.0161	0.1258	0.1258	0.1435	0.1511
33	33	0.243	0.0030	0.0034	0.0036	0.0036	-0.0094	-0.0094	-0.0108	-0.0113
34	34	0.244	0.0030	0.0034	0.0036	0.0036	-0.0110	-0.0110	-0.0126	-0.0132
35	35	0.244	0.0002	0.0002	0.0002	0.0002	0.0012	0.0012	0.0014	0.0014
36	36	0.245	0.0054	0.0061	0.0065	0.0065	0.0101	0.0101	0.0115	0.0121
37	37	0.246	0.0148	0.0169	0.0177	0.0177	0.0447	0.0447	0.0510	0.0537
38	38	0.246	0.0503	0.0524	0.0524	0.0524	0.0447	0.0447	0.0510	0.0537

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 3.5089E 06 3.2086E 06 3.700

REL LENGTH(METER) 0.914

RS(METER) 0.3048

TEST NO. 158

CHAN	I/C	IMDEG KJ	IMDEG R	QIW/CH2	QIBIU/FT2-SEC	QSIW/CH2	QS(BTU/FT2-SFC)	ST(0.907)	ST(0.874)	TIME(SEC)
21	61	304.4	547.9	0.004	0.180	14.280	12.406	5.2708E-05	5.5475E-05	0.752
22	62	303.0	545.4	0.031	0.228	14.102	12.426	8.1756E-06	8.5303E-06	-0.133
23	63	302.6	544.6	0.017	0.015	14.109	12.432	4.3789E-06	4.6082E-06	1.545
24	64	301.2	542.2	-0.002	-0.002	14.131	12.451	-6.3848E-07	-6.7185E-07	-23.658
25	25	-0.0	-0.0	*****	*****	*****	*****	-8.2399E-02	-8.2399E-02	0.000
26	26	-0.0	-0.0	*****	*****	*****	*****	-8.2399E-02	-8.2399E-02	0.000
27	27	-0.0	-0.0	*****	*****	*****	*****	-8.2399E-02	-8.2399E-02	0.000
28	28	-0.0	-0.0	*****	*****	*****	*****	-8.2399E-02	-8.2399E-02	0.000
29	29	300.8	541.4	-0.103	-0.002	14.138	12.457	-6.8711E-07	-7.2300E-07	-5.929
30	30	-0.0	-0.0	*****	*****	*****	*****	-8.2399E-02	-8.2399E-02	0.000
31	31	300.3	540.5	-0.162	-0.142	14.146	12.465	-4.1693E-05	-4.3866E-05	0.446
32	32	300.9	539.9	-0.190	-0.167	14.151	12.469	-4.8782E-05	-5.1328E-05	0.520
33	33	302.1	543.9	0.043	0.038	14.116	12.438	1.1603E-05	1.1575E-05	1.529
34	34	303.1	545.5	0.042	0.037	14.101	12.425	1.0867E-05	1.1437E-05	1.512
35	35	302.7	544.9	0.002	0.002	14.106	12.429	5.6642E-07	5.8977E-07	18.451
36	36	304.0	547.2	0.076	0.067	14.086	12.412	1.9582E-05	2.0610E-05	1.187
37	37	304.6	548.6	0.208	0.183	14.073	12.401	5.3777E-05	5.6501E-05	0.710
38	38	305.6	550.0	0.708	0.624	14.061	12.389	1.8316E-04	1.9279E-04	0.429
39	39	305.6	550.1	0.734	0.647	14.060	12.389	1.8993E-04	1.9989E-04	-0.228
40	40	305.4	551.6	0.776	0.684	14.047	12.377	2.0099E-04	2.1156E-04	-0.626
41	41	306.6	551.8	1.339	1.180	14.044	12.375	3.4765E-04	3.6531E-04	-0.135
42	42	308.0	556.5	1.532	1.350	14.021	12.354	3.9764E-04	4.1861E-04	0.074
43	43	308.6	555.4	1.237	1.090	14.012	12.347	3.2130E-04	3.3825E-04	0.292
44	44	308.6	555.5	1.150	1.014	14.012	12.346	2.9881E-04	3.1458E-04	0.288
45	45	307.8	554.0	1.173	1.033	14.026	12.358	3.0435E-04	3.2039E-04	0.284
46	46	307.4	553.3	1.059	0.933	14.031	12.364	2.7465E-04	2.8912E-04	0.291
47	47	307.4	553.3	1.319	1.162	14.032	12.364	3.4218E-04	3.6021E-04	0.309
48	48	306.9	552.5	1.391	1.226	14.039	12.370	3.6060E-04	3.7959E-04	0.369
49	49	307.0	552.5	1.370	1.203	14.038	12.370	4.0690E-04	4.2833E-04	0.363
50	50	308.3	551.3	1.767	1.557	14.050	12.390	4.5776E-04	4.8185E-04	0.396
51	65	302.5	544.4	-0.233	-0.217	14.111	12.433	-3.4348E-05	-3.6147E-05	0.349
52	66	303.4	546.1	-0.155	-0.137	14.096	12.421	-4.0128E-05	-4.2231E-05	0.254
53	67	302.9	545.2	0.217	0.215	14.104	12.427	4.3538E-06	4.5922E-06	2.407
54	68	305.5	549.9	0.442	0.425	14.062	12.390	3.6685E-05	3.8614E-05	0.936
55	69	306.8	552.2	0.628	0.553	14.041	12.372	1.6272E-04	1.7129E-04	0.350

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.9872E-01 (SLUGS/FT2-SEC)

PROBE NO. = 6

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(TATM)	TI(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	3.3899E 06	3.0997E 06	0.914	1.87	1198.7	1.2748E 06	0.3048	1.000	158
MACH	RE/FEI	REL	LENGTH(FE)	PI(PST)	TI(DEG R)	HT(BTU/LBM)	RS(FI)	HAW/HT	RUN NO.
5.10	1.0332E 06	2.0997E 06	3.000	174.56	2157.7	548.19	1.0000	1.000	8

CHAN	T/C	HM/HT	Q/AS	H/HS(1.000)	H/HS(0.907)	H/HS(0.876)	CHAN	T/C	HM/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.876)
56	71	0.239	-0.0019	-0.0019	-0.0022	-0.0023	66	81	0.245	0.0653	0.0653	0.0745	0.0784
57	72	0.240	-0.0027	-0.0027	-0.0031	-0.0032	67	82	0.245	0.0874	0.0874	0.0996	0.1049
58	73	0.240	-0.0041	-0.0041	-0.0047	-0.0050	68	83	0.246	0.0848	0.0848	0.0967	0.1018
59	74	0.241	-0.0025	-0.0025	-0.0028	-0.0030	69	84	0.246	0.0775	0.0775	0.0884	0.0930
60	75	0.241	-0.0033	-0.0033	-0.0038	-0.0040	70	85	0.247	0.0761	0.0761	0.0868	0.0914
61	76	0.242	-0.0035	-0.0035	-0.0043	-0.0046	71	86	0.247	0.0781	0.0781	0.0891	0.0938
62	77	0.242	-0.0065	-0.0065	-0.0075	-0.0078	72	87	0.248	0.0846	0.0846	0.0966	0.1017
63	78	0.242	-0.0105	-0.0105	-0.0120	-0.0126	73	88	0.249	0.0886	0.0886	0.1012	0.1065
64	79	0.243	-0.0126	-0.0126	-0.0144	-0.0151	74	89	0.250	0.0929	0.0929	0.1061	0.1117
65	80	0.243	0.0454	0.0454	0.0518	0.0545	75	90	0.250	0.1039	0.1039	0.1186	0.1249

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.1 2.0399E 06 3.0997E 06 3.0997E 06 3.0997E 06
 RE/METER 3.0997E 06 3.0997E 06 3.0997E 06 3.0997E 06
 LENGTH(METER) 1.96.7 1.2748E 06 1.2748E 06 1.2748E 06
 PT(ATM) 1.96.7 1.2748E 06 1.2748E 06 1.2748E 06
 HI(FT) 548.19 548.19 548.19 548.19
 HI(METER) 1.0000 1.0000 1.0000 1.0000
 TEST NO. 158
 RUN NO. 8

CHAN	T/C	IM(LB/EG K)	IM(LB/EG R)	C(W/GCM)	Q(BTU/FT ² -SEC)	QS(W/GCM)	QS(BTU/FT ² -SEC)	ST(I,907)	ST(O,874)	TIME(SEC)
66	71	3.37	546.6	-0.328	-0.324	14.576	12.782	-7.2585E-05	-7.4255E-06	-1.421
66	72	3.43	547.7	-0.339	-0.334	14.497	12.774	-9.8461E-06	-1.0409E-05	-0.590
66	73	3.49	548.8	-0.360	-0.353	14.487	12.765	-1.2291E-05	-1.6087E-05	0.037
66	74	3.54	549.9	-0.336	-0.332	14.478	12.757	-9.1819E-06	-9.6603E-06	-0.167
66	75	3.61	551.1	-0.348	-0.342	14.467	12.747	-1.2254E-05	-1.2894E-05	0.415
66	76	3.68	552.2	-0.379	-0.370	14.456	12.738	-2.0285E-05	-2.1344E-05	0.566
66	77	3.70	552.0	-0.394	-0.383	14.445	12.735	-2.4132E-05	-2.5392E-05	0.652
66	78	3.78	554.0	-0.452	-0.434	14.440	12.724	-3.8795E-05	-4.0822E-05	0.686
66	79	3.85	552.3	-0.484	-0.460	14.429	12.713	-4.6595E-05	-4.9037E-05	0.254
66	80	3.89	556.1	0.655	0.577	14.422	12.707	1.6772E-04	1.7650E-04	0.322
66	81	3.94	558.6	0.940	0.826	14.397	12.686	2.4111E-04	2.5375E-04	-0.132
66	82	3.94	560.4	1.256	1.107	14.383	12.673	3.2258E-04	3.3951E-04	0.169
66	83	3.21	561.9	1.218	1.073	14.370	12.662	3.1501E-04	3.2945E-04	0.111
66	84	3.28	563.1	1.112	0.980	14.359	12.652	2.8611E-04	3.0115E-04	0.092
66	85	3.35	564.4	1.091	0.962	14.347	12.642	2.8094E-04	2.9572E-04	0.115
66	86	3.41	565.4	1.120	0.987	14.338	12.634	2.8843E-04	3.0363E-04	0.164
66	87	3.45	566.1	1.213	1.069	14.332	12.629	3.1260E-04	3.2907E-04	0.176
66	88	3.61	569.2	1.268	1.117	14.306	12.606	3.2739E-04	3.4468E-04	0.069
66	89	3.75	571.4	1.327	1.170	14.284	12.587	3.4330E-04	3.6146E-04	0.090
66	90	3.72	570.9	1.485	1.309	14.289	12.591	3.8399E-04	4.0429E-04	

FREESTREAM DENSITY-VELOCITY PRODUCT = 2.9476E-01 (SLUGS/FT²-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER POFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 4.6327E C6 4.2910E 06 REL LENGTH(METER) 0.914 PT(ATM) 15.30 TT(DEF K) 1148.9 HT(JOULE/KG) 1.2167E C6 RS(METER) 0.3048 HAW/HT 1.000 TEST NO. 158
 MACH 5.10 1.4333E C6 4.2910E 06 REL LENGTH(FT) 3.000 P(PIPSI) 224.85 TT(DEF R) 2068.1 HAW/HT 1.000 RS(FT) 1.000 HAW/HT 1.000 RUN NO. 9
 CONSTANT SET 211

CHAN	T/C	HW/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CH#N	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	C.250	-C.0003	-C.0003	-0.0003	-0.0003	11	11	0.253	0.1507	0.1507	0.1721	0.1813
2	2	0.252	C.0135	C.0135	0.0163	0.0163	12	12	0.253	0.1458	0.1498	0.1712	0.1803
3	3	C.253	0.0756	0.0756	0.0864	0.0864	13	13	0.252	0.1898	0.1898	0.2168	0.2283
4	4	0.253	0.0921	0.1052	0.1108	0.1108	14	14	0.253	0.2028	0.2028	0.2316	0.2440
5	5	C.253	C.1205	0.1376	0.1450	0.1450	15	15	0.252	0.2277	0.2277	0.2600	0.2738
6	6	0.254	C.1312	0.1459	0.1579	0.1579	16	16	0.250	-0.0052	-0.0052	-0.0060	-0.0063
7	7	0.253	C.1595	0.1595	0.1822	0.1822	17	17	0.250	-0.0082	-0.0082	-0.0094	-0.0099
8	8	C.254	C.1516	0.1516	0.1732	0.1732	18	18	0.251	-0.0035	-0.0035	-0.0040	-0.0042
9	9	C.253	C.1430	0.1430	0.1633	0.1633	19	19	0.251	-0.0015	-0.0015	-0.0017	-0.0018
10	10	0.252	C.1390	C.1390	0.1587	0.1671	20	20	C.252	0.0404	0.0404	0.0461	0.0485

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 4.6927E C6 4.2910E C6 4.2910E C6 4.2910E C6 4.2910E C6

REL LENGTH (METER) 2.914

REL LENGTH (FT) 9.544

REL LENGTH (METER) 2.914

REL LENGTH (FT) 9.544

REL LENGTH (METER) 2.914

REL LENGTH (FT) 9.544

REL LENGTH (METER) 2.914

REL LENGTH (FT) 9.544

REL LENGTH (METER) 2.914

REL LENGTH (FT) 9.544

CHAN	T/C	TW(DEC K)	TW(DEC R)	Q(W/CM2)	Q(FTU/FT2-SEC)	CS(W/CM2)	CS(FTU/FT2-SEC)	RS(METER)	RS(JULE/KG)	RS(FT)	RS(LB/ALBM)	HAW/HT	HAW/HT	TEST NO.	RUN NO.	TIME(SEC)
1	1	303.4	546.1	-0.004	-0.004	15.495	13.653	-8.6401E-07	-9.0973E-07	0.3048	1.000	1.000	158	9	6.713	
2	2	305.1	549.2	0.184	0.184	15.463	13.625	4.2689E-05	4.4953E-05	0.3048	1.000	1.000	158	9	0.638	
3	3	306.8	551.4	1.029	1.029	15.441	13.605	2.3880E-04	2.5148E-04	0.3048	1.000	1.000	158	9	0.454	
4	4	308.5	553.6	1.874	1.874	15.419	13.586	1.2553E-03	1.3808E-03	0.3048	1.000	1.000	158	9	0.223	
5	5	310.2	555.8	2.719	2.719	15.397	13.567	6.4265E-04	6.8630E-04	0.3048	1.000	1.000	158	9	-0.110	
6	6	311.9	558.0	3.564	3.564	15.375	13.548	3.8045E-04	4.0067E-04	0.3048	1.000	1.000	158	9	-0.184	
7	7	313.6	560.2	4.409	4.409	15.353	13.529	2.1822E-03	2.3028E-03	0.3048	1.000	1.000	158	9	0.077	
8	8	315.3	562.4	5.254	5.254	15.331	13.510	1.2553E-03	1.3808E-03	0.3048	1.000	1.000	158	9	0.303	
9	9	317.0	564.6	6.099	6.099	15.309	13.491	6.8630E-04	7.2550E-04	0.3048	1.000	1.000	158	9	0.312	
10	10	318.7	566.8	6.944	6.944	15.287	13.472	4.0067E-04	4.2689E-04	0.3048	1.000	1.000	158	9	0.295	
11	11	320.4	569.0	7.789	7.789	15.265	13.453	2.3880E-04	2.5148E-04	0.3048	1.000	1.000	158	9	0.329	
12	12	322.1	571.2	8.634	8.634	15.243	13.434	1.3808E-03	1.4641E-03	0.3048	1.000	1.000	158	9	0.337	
13	13	323.8	573.4	9.479	9.479	15.221	13.415	7.2550E-04	7.6434E-04	0.3048	1.000	1.000	158	9	0.454	
14	14	325.5	575.6	10.324	10.324	15.199	13.396	4.0067E-04	4.2689E-04	0.3048	1.000	1.000	158	9	0.477	
15	15	327.2	577.8	11.169	11.169	15.177	13.377	2.3880E-04	2.5148E-04	0.3048	1.000	1.000	158	9	0.493	
16	16	328.9	580.0	12.014	12.014	15.155	13.358	1.3808E-03	1.4641E-03	0.3048	1.000	1.000	158	9	1.148	
17	17	330.6	582.2	12.859	12.859	15.133	13.339	7.2550E-04	7.6434E-04	0.3048	1.000	1.000	158	9	0.942	
18	18	332.3	584.4	13.704	13.704	15.111	13.320	4.0067E-04	4.2689E-04	0.3048	1.000	1.000	158	9	1.507	
19	19	334.0	586.6	14.549	14.549	15.089	13.301	2.3880E-04	2.5148E-04	0.3048	1.000	1.000	158	9	1.657	
20	20	335.7	588.8	15.394	15.394	15.067	13.282	1.3808E-03	1.4641E-03	0.3048	1.000	1.000	158	9	0.254	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.9135E-01 (SLUGS/FT2-SEC)

PRCBE AC.# 1

TEST NO. 158
RUN NO. 9

PRELIMINARY DATA ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
PT(ATM) 15.50
PT(PST) 224.85
PT(FT) 333.94

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAM/HT 1.000
RS(METER) 0.3048
RS(FT) 1.0000

MACH	RE/METER	REL LENGTH(METER)	REL LENGTH(FT)	REL LENGTH(FT)	REL LENGTH(FT)	PT(ATM)	PT(PST)	PT(FT)	CHAM	T/C	HM/HT	Q/QS	H/HS(1.000)	M/HS(0.907)	M/HS(0.874)
5.10	1.3862E C6	4.1586E 06	3.610	3.610	3.610	224.85	224.85	333.94	2100.7	41	0.249	0.1398	0.0916	0.0916	0.0964
21	0.246	C.CC48	0.0048	0.0055	0.0011	0.0011	0.0011	0.0011	39	39	0.249	0.0803	0.0803	0.0916	0.0964
22	0.246	C.CC48	0.0048	0.0055	0.0011	0.0011	0.0011	0.0011	40	40	0.249	0.0928	0.0928	0.1039	0.1115
23	0.246	C.CC09	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010	41	41	0.249	0.1398	0.1398	0.1596	0.1661
24	0.245	-C.CC08	-0.0008	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	42	42	0.250	0.1516	0.1516	0.1730	0.1822
25	0.245	C.CCC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	43	43	0.251	0.1176	0.1176	0.1343	0.1414
26	0.246	C.CCC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	44	44	0.250	0.1100	0.1100	0.1255	0.1322
27	0.246	C.CCC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	45	45	0.250	0.1122	0.1122	0.1281	0.1349
28	0.246	C.CCC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	46	46	0.249	0.1039	0.1039	0.1186	0.1248
29	0.245	C.CC34	0.0034	0.0039	0.0041	0.0041	0.0041	0.0041	47	47	0.249	0.1321	0.1321	0.1508	0.1588
30	0.244	C.CCC	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	48	48	0.249	0.1386	0.1386	0.1582	0.1666
31	0.244	-0.0094	-0.0094	-0.0107	-0.0113	-0.0113	-0.0113	-0.0113	49	49	0.249	0.1587	0.1587	0.1811	0.1906
32	0.244	-0.0058	-0.0058	-0.0111	-0.0117	-0.0117	-0.0117	-0.0117	50	50	0.248	0.1781	0.1781	0.2033	0.2140
33	0.246	C.CC53	0.0053	0.0060	0.0063	0.0063	0.0063	0.0063	51	51	0.246	-0.0098	-0.0098	-0.0112	-0.0117
34	0.247	C.CC39	0.0039	0.0045	0.0047	0.0047	0.0047	0.0047	52	52	0.247	-0.0119	-0.0119	-0.0136	-0.0143
35	0.247	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	53	53	0.247	0.0030	0.0030	0.0034	0.0036
36	0.248	C.CC57	0.0057	0.0065	0.0068	0.0068	0.0068	0.0068	54	54	0.248	0.0140	0.0140	0.0160	0.0169
37	0.248	C.C190	0.0190	0.0217	0.0229	0.0229	0.0229	0.0229	55	55	0.249	0.0682	0.0682	0.0778	0.0819
38	0.245	C.0689	0.0689	0.0787	0.0828	0.0828	0.0828	0.0828							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH RE/METER REL LENGTH(METER) PT(ATM) TT(DEC K) MT(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 5.10 4.5475E C6 4.1586E C6 0.914 15.30 1170.4 1.2417E 06 0.304 1.000 1.000 9
 PACH RE/FT REL LENGTH(FT) PT(PSI) TT(DEC R) M-LB(TU/LBP) RS(FT) HAW/HT RUN NO.
 5.10 1.3882E C6 4.1586E C6 224.85 224.85 2106.7 533.54 1.000 1.000 1.000

CHAN	T/C	TA(DEC K)	TA(DEC R)	Q(W/CM2)	Q(LB/TU/FT2-SEC)	CS(W/CM2)	CS(LB/TU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
21	61	306.1	551.0	0.437	0.385	15.865	13.979	8.814E-05	9.2785E-05	0.518
22	62	306.7	548.5	0.076	0.067	15.890	14.001	1.5204E-05	1.6088E-05	-0.216
23	63	306.5	548.1	0.014	0.012	15.894	14.805	2.8361E-06	2.9852E-06	-1.551
24	64	303.2	545.7	-0.013	-0.012	15.918	14.026	-2.6224E-05	-2.7600E-06	-3.061
25	25	C.C	C.C	*****	*****	*****	*****	*****	*****	*****
26	26	C.C	C.C	*****	*****	*****	*****	*****	*****	*****
27	27	C.C	C.C	*****	*****	*****	*****	*****	*****	*****
28	28	C.C	C.C	*****	*****	*****	*****	*****	*****	*****
29	29	302.7	544.8	0.055	0.048	15.927	14.034	1.0960E-05	1.1535E-05	1.035
30	30	C.C	C.C	*****	*****	*****	*****	*****	*****	*****
31	31	302.1	543.8	-0.150	-0.132	15.938	14.043	-3.0002E-05	-3.1575E-05	0.458
32	32	301.7	543.1	-0.156	-0.137	15.945	14.050	-3.1210E-05	-3.2845E-05	0.446
33	33	304.4	547.5	0.084	0.074	15.896	14.006	1.6909E-05	1.7798E-05	1.298
34	34	305.4	549.8	0.082	0.075	15.877	13.990	1.2494E-05	1.3152E-05	1.422
35	35	305.1	549.1	-0.000	-0.000	15.884	13.996	-1.5396E-10	-1.6256E-10	*****
36	36	308.3	551.3	0.090	0.080	15.861	13.976	1.8193E-05	1.9152E-05	1.110
37	37	308.5	552.5	0.302	0.266	15.850	13.966	6.0923E-05	6.4136E-05	0.845
38	38	307.8	553.7	1.092	0.962	15.837	13.955	2.2048E-04	2.3212E-04	0.417
39	39	307.3	553.2	1.272	1.120	15.842	13.959	2.5673E-04	2.7028E-04	-0.094
40	40	308.2	554.5	1.463	1.294	15.825	13.944	2.9677E-04	3.1245E-04	-0.302
41	41	308.1	554.6	2.213	1.950	15.828	13.946	4.4734E-04	4.7097E-04	-0.014
42	42	309.6	557.3	2.393	2.110	15.811	13.923	4.8484E-04	5.1050E-04	0.102
43	43	309.6	557.6	1.858	1.637	15.797	13.920	3.7635E-04	3.9627E-04	0.240
44	44	305.6	557.3	1.737	1.531	15.801	13.923	3.5177E-04	3.7040E-04	0.214
45	45	308.5	555.4	1.776	1.565	15.821	13.940	3.5902E-04	3.7799E-04	0.199
46	46	307.5	554.2	1.645	1.449	15.833	13.951	3.3230E-04	3.4984E-04	0.196
47	47	307.5	554.2	2.092	1.843	15.832	13.950	4.2261E-04	4.4492E-04	0.240
48	48	307.1	553.5	2.196	1.935	15.839	13.957	4.3347E-04	4.6887E-04	0.282
49	49	307.6	553.7	2.513	2.214	15.838	13.955	5.0749E-04	5.3427E-04	0.318
50	50	306.5	552.4	2.823	2.488	15.851	13.967	5.8969E-04	5.9973E-04	0.346
51	51	303.8	546.8	-0.156	-0.137	15.907	14.016	-3.1270E-05	-3.2913E-05	0.659
52	52	304.8	548.7	-0.189	-0.167	15.888	14.000	-3.8070E-05	-4.0072E-05	0.690
53	53	304.5	548.9	0.048	0.042	15.886	13.998	9.6671E-06	1.0176E-05	1.445
54	54	307.1	552.7	0.222	0.196	15.847	13.964	4.4860E-05	4.7226E-05	0.622
55	55	305.1	554.6	1.079	0.951	15.828	13.947	2.1813E-04	2.2965E-04	0.279

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.8586E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***												
#	REL	REL	REL	REL	REL	REL	REL	REL	REL			
ACH	RE/PETER	4.C250E C6	4.C250E C6	4.C250E C6	4.C250E C6	4.C250E C6	4.C250E C6	4.C250E C6	4.C250E C6			
5.10	1.3417E C6	4.0250E C6	4.0250E C6	4.0250E C6	4.0250E C6	4.0250E C6	4.0250E C6	4.0250E C6	4.0250E C6			
56	71	0.242	-0.0025	-0.0029	-0.0030	66	81	0.248	0.1179	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
57	72	0.243	-0.0027	-0.0031	-0.0033	67	82	0.248	0.1179	0.1345	0.1345	0.1416
58	73	0.242	-0.0039	-0.0044	-0.0046	68	83	0.248	0.1562	0.1703	0.1703	0.1877
59	74	0.244	-0.0017	-0.0020	-0.0021	69	84	0.249	0.1409	0.1608	0.1608	0.1693
60	75	0.244	-0.0021	-0.0024	-0.0025	70	85	0.249	0.1319	0.1505	0.1505	0.1585
61	76	0.245	-0.0034	-0.0035	-0.0041	71	86	0.249	0.1311	0.1487	0.1487	0.1574
62	77	0.245	-0.0074	-0.0084	-0.0089	72	87	0.249	0.1377	0.1571	0.1571	0.1654
63	78	0.246	-0.0104	-0.0119	-0.0125	73	88	0.250	0.1497	0.1709	0.1709	0.1799
64	79	0.246	-0.0090	-0.0102	-0.0108	74	89	0.251	0.1571	0.1793	0.1793	0.1888
65	80	0.247	0.0869	0.0923	0.0972	75	90	0.250	0.1746	0.1994	0.1994	0.2099
								0.250	0.1962	0.2240	0.2240	0.2358

TEST NO. 158
 RUN NO. 9
 HAW/HT 1.000
 RS(METER) 0.3048
 HAM/MT 1.0000
 RS(FT) 1.0000
 HAM/MT 1.0000

HT(JOULE/KG) 1.2582E 06
 HT(BTU/LBP) 545.34

TI(CEC K) 1193.1
 TI(DES R) 2147.5

PI(ATM) 15.30
 PI(PSI) 224.85

TI(CEC K) 1193.1
 TI(DES R) 2147.5

TI(CEC K) 1193.1
 TI(DES R) 2147.5

TI(CEC K) 1193.1
 TI(DES R) 2147.5

TI(CEC K) 1193.1
 TI(DES R) 2147.5

TI(CEC K) 1193.1
 TI(DES R) 2147.5

PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 9

RESEARCH CENTER MOFFETT FIELD CALIF. ***
 HAW/MT 1.000
 RS(METER) C.3048
 RS(LFT) 1.0000

ADMINISTRATION APES
 T(DEG N) 1193.1
 T(DEC N) 2147.5
 P(TIME) 224.85

REL LENGTH(M) 0.914
 REL LENGTH(FT) 3.000

PACH	REP/REYER	REL LENGTH(M)	REL LENGTH(FT)	IN(DEC R)	IN(DEC K)	IN(DEC R)	IN(DEC K)	CS(W/CM2)	CS(BTJ/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
5.10	4.401VE C6	4.0250E 06	0.914	3.000	224.85	0.914	3.000	16.312	14.373	-8.2261E-06	-8.6589E-06	-0.027
5.10	1.341VE C6	4.0250E 06	0.914	3.000	224.85	0.914	3.000	16.202	14.364	-9.2797E-06	-9.2797E-06	1.440
56	71	365.5	550.7	550.7	550.7	550.7	550.7	16.202	14.364	-8.8187E-06	-1.3157E-05	3.280
57	72	366.5	551.7	551.7	551.7	551.7	551.7	16.286	14.391	-1.2503E-05	-5.8861E-06	3.913
58	73	367.5	552.7	552.7	552.7	552.7	552.7	16.275	14.340	-3.5932E-06	-7.1203E-06	2.849
59	74	368.5	553.7	553.7	553.7	553.7	553.7	16.262	14.329	-6.7656E-06	-1.1695E-05	1.986
60	75	369.5	554.7	554.7	554.7	554.7	554.7	16.247	14.320	-1.1112E-05	-2.5191E-05	1.693
61	76	369.4	554.6	554.6	554.6	554.6	554.6	16.237	14.317	-3.3060E-05	-3.5688E-05	2.104
62	77	369.4	554.6	554.6	554.6	554.6	554.6	16.225	14.307	-2.9041E-05	-3.0567E-05	0.124
63	78	369.4	554.6	554.6	554.6	554.6	554.6	16.208	14.296	-2.6246E-04	2.7627E-04	-3.400
64	79	369.4	554.6	554.6	554.6	554.6	554.6	16.190	14.280	3.8235E-04	4.0249E-04	-0.178
65	80	369.4	554.6	554.6	554.6	554.6	554.6	16.179	14.265	5.0466E-04	5.3337E-04	0.011
66	81	369.4	554.6	554.6	554.6	554.6	554.6	16.171	14.255	4.5710E-04	4.8121E-04	-0.037
67	82	369.4	554.6	554.6	554.6	554.6	554.6	16.164	14.249	4.2778E-04	4.5035E-04	-0.068
68	83	369.4	554.6	554.6	554.6	554.6	554.6	16.159	14.243	4.2535E-04	4.4780E-04	-0.044
69	84	369.4	554.6	554.6	554.6	554.6	554.6	16.154	14.238	4.4634E-04	4.7012E-04	-0.004
70	85	369.4	554.6	554.6	554.6	554.6	554.6	16.151	14.234	4.8959E-04	5.1120E-04	-0.028
71	86	369.4	554.6	554.6	554.6	554.6	554.6	16.142	14.231	5.0955E-04	5.3650E-04	-0.060
72	87	369.4	554.6	554.6	554.6	554.6	554.6	16.132	14.214	5.6848E-04	6.7008E-04	-0.045
73	88	369.4	554.6	554.6	554.6	554.6	554.6	16.114	14.199	6.3641E-04	6.7008E-04	-0.045
74	89	369.4	554.6	554.6	554.6	554.6	554.6	16.126	14.209	6.3641E-04	6.7008E-04	-0.045
75	90	369.4	554.6	554.6	554.6	554.6	554.6	16.126	14.209	6.3641E-04	6.7008E-04	-0.045

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.8018E-01 (SLUGS/FT2-SEC)

PADE NG. 2 XRI= 77774 XR2= 71666 XRI4= 44331 XR3= 61060 XRS= 00000 XRD= 00000 XRT= 00000

SYSTEM STOP

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 1.6621E 06 1.5198E 06 0.914 4.92 1085.1 1.1427E 06 1.000 0.3048 1.000 1.000 1.000

MACH 5.10 5.0660E 05 1.5198E 06 3.200 72.32 1955.1 491.40 1.0000

RE/METER REL LENGTH(METER) P(TIATA) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158

RE/ET REL LENGTH(FT) P(TI PSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAM/HT RUN NO. 19

CHAN	T/C	HW/NT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.271	0.0007	0.0007	0.0008	0.0009	11	11	0.273	0.0545	0.0625	0.0660	0.0660
2	3	0.278	0.0051	0.0051	0.0059	0.0062	12	12	0.273	0.0562	0.0645	0.0680	0.0680
3	3	0.272	0.0239	0.0239	0.0274	0.0290	13	13	0.273	0.0525	0.0602	0.0635	0.0635
4	4	0.272	0.0290	0.0290	0.0332	0.0351	14	14	0.273	0.0515	0.0590	0.0623	0.0623
5	5	0.272	0.0342	0.0342	0.0392	0.0414	15	15	0.272	0.0548	0.0628	0.0663	0.0663
6	6	0.273	0.0385	0.0385	0.0441	0.0466	16	16	0.271	-0.0011	-0.0012	-0.0013	-0.0013
7	7	0.273	0.0460	0.0460	0.0528	0.0557	17	17	0.271	-0.0003	-0.0008	-0.0010	-0.0010
8	8	0.273	0.0566	0.0566	0.0649	0.0685	18	18	0.271	0.0007	0.0008	0.0009	0.0009
9	9	0.273	0.0555	0.0555	0.0636	0.0671	19	19	0.272	0.0042	0.0049	0.0051	0.0051
10	10	0.273	0.0515	0.0515	0.0591	0.0623	20	20	0.272	0.0228	0.0228	0.0261	0.0276

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	W (DEG K)	W (DEG R)	Q (M/CM2)	Q (BTU/FT2-SEC)	QS (M/CM2)	QS (BTU/FT2-SEC)	SI (IO, 907)	SI (IO, 874)	TIME (SEC)
1	1	308.7	555.7	0.006	0.005	8.023	7.070	3.8574E-06	4.0686E-06	0.504
2	2	309.2	556.5	0.041	0.036	8.018	7.065	2.7397E-05	2.8898E-05	0.770
3	3	309.5	557.2	0.192	0.189	8.015	7.062	1.2820E-04	1.3523E-04	0.496
4	4	309.7	557.5	0.232	0.205	8.013	7.060	1.5520E-04	1.6371E-04	0.222
5	5	309.7	557.4	0.274	0.242	8.013	7.061	1.8328E-04	1.9333E-04	-0.308
6	6	310.2	558.3	0.308	0.272	8.008	7.056	2.0618E-04	2.1149E-04	-0.401
7	7	310.3	558.5	0.369	0.325	8.007	7.055	2.4654E-04	2.6008E-04	-0.238
8	8	310.6	559.1	0.453	0.399	8.003	7.052	3.0321E-04	3.1986E-04	0.147
9	9	310.8	559.5	0.444	0.391	8.002	7.050	2.9703E-04	3.1334E-04	0.151
10	10	310.8	559.4	0.412	0.363	8.002	7.051	2.7594E-04	2.9110E-04	0.101
11	11	310.7	559.2	0.436	0.385	8.003	7.052	2.9203E-04	3.0806E-04	0.132
12	12	310.7	559.3	0.450	0.397	8.003	7.051	3.0122E-04	3.1776E-04	0.163
13	13	310.7	559.3	0.420	0.370	8.002	7.051	2.8121E-04	2.9666E-04	0.101
14	14	310.3	558.4	0.412	0.365	8.006	7.055	2.7565E-04	2.9078E-04	0.117
15	15	309.9	557.9	0.439	0.387	8.010	7.058	2.9337E-04	3.0947E-04	0.102
16	16	309.9	554.3	-0.009	-0.008	8.031	7.076	-5.7829E-06	-6.0991E-06	1.631
17	17	308.0	554.3	-0.007	-0.006	8.031	7.076	-4.4470E-06	-4.6903E-06	1.694
18	18	308.6	555.5	0.036	0.005	8.024	7.070	3.8908E-06	4.0933E-06	0.422
19	19	309.1	556.4	0.034	0.030	8.019	7.066	2.2689E-05	2.3932E-05	0.756
20	20	309.3	556.8	0.183	0.161	8.017	7.064	1.2201E-04	1.2870E-04	0.532

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3137E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	T1(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT													
5.10	1.5619E 06	1.4282E 06	0.914	1125.9	1.1899E 06	0.3048	1.000													
MACH	RE/FT	REL LENGTH(FT)	PT(PST)	T1(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT													
5.10	4.7607E 05	1.4282E 06	72.32	2026.6	511.69	1.0000	1.000													
CHAN	T/C	Q/Q5	H/HS(1.000)	H/HS(0.907)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	Q/Q5	HM/HT	T/C	CHAN	T/C	Q/Q5	H/HS(1.000)	H/HS(0.907)	H/HS(1.000)	H/HS(0.874)	Q/Q5	HM/HT	
21	61	0.261	0.0142	0.0163	0.0171	0.0171	0.0171	0.0438	0.262	39	39	39	0.0438	0.0438	0.0501	0.0501	0.0438	0.0438	0.262	0.0438
22	62	0.261	0.0022	0.0025	0.0027	0.0027	0.0027	0.0471	0.262	40	40	40	0.0471	0.0471	0.0539	0.0539	0.0471	0.0471	0.262	0.0471
23	63	0.261	-0.0010	-0.0012	-0.0012	-0.0012	-0.0012	0.0541	0.262	41	41	41	0.0541	0.0541	0.0619	0.0619	0.0541	0.0541	0.262	0.0541
24	64	0.261	0.0007	0.0008	0.0009	0.0009	0.0009	0.0603	0.262	42	42	42	0.0603	0.0603	0.0691	0.0691	0.0603	0.0603	0.262	0.0603
25	65	0.261	0.0000	0.0000	0.0000	0.0000	0.0000	0.0582	0.262	43	43	43	0.0582	0.0582	0.0666	0.0666	0.0582	0.0582	0.262	0.0582
26	26	0.261	0.0000	0.0000	0.0000	0.0000	0.0000	0.0548	0.262	44	44	44	0.0548	0.0548	0.0627	0.0627	0.0548	0.0548	0.262	0.0548
27	27	0.261	0.0000	0.0000	0.0000	0.0000	0.0000	0.0537	0.262	45	45	45	0.0537	0.0537	0.0615	0.0615	0.0537	0.0537	0.262	0.0537
28	28	0.261	0.0000	0.0000	0.0000	0.0000	0.0000	0.0473	0.262	46	46	46	0.0473	0.0473	0.0541	0.0541	0.0473	0.0473	0.262	0.0473
29	29	0.261	0.0001	0.0001	0.0001	0.0001	0.0001	0.0526	0.262	47	47	47	0.0526	0.0526	0.0602	0.0602	0.0526	0.0526	0.262	0.0526
30	30	0.260	0.0002	0.0002	0.0002	0.0002	0.0002	0.0528	0.262	48	48	48	0.0528	0.0528	0.0604	0.0604	0.0528	0.0528	0.262	0.0528
31	31	0.260	-0.0002	-0.0003	-0.0003	-0.0003	-0.0003	0.0504	0.262	49	49	49	0.0504	0.0504	0.0576	0.0576	0.0504	0.0504	0.262	0.0504
32	32	0.260	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	0.0503	0.262	50	50	50	0.0503	0.0503	0.0518	0.0518	0.0503	0.0503	0.262	0.0503
33	33	0.261	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	0.0016	0.260	51	51	51	0.0016	0.0016	-0.0002	-0.0002	0.0016	0.0016	0.260	0.0016
34	34	0.261	0.0007	0.0007	0.0007	0.0007	0.0007	-0.0001	0.261	52	52	52	-0.0001	-0.0001	-0.0002	-0.0002	-0.0001	-0.0001	0.261	-0.0001
35	35	0.261	0.0009	0.0009	0.0011	0.0011	0.0011	-0.0006	0.261	53	53	53	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	-0.0006	0.261	-0.0006
36	36	0.261	0.0025	0.0025	0.0029	0.0029	0.0029	0.0036	0.261	54	54	54	0.0036	0.0036	0.0041	0.0041	0.0036	0.0036	0.261	0.0036
37	37	0.262	0.0083	0.0083	0.0095	0.0095	0.0095	0.0223	0.262	55	55	55	0.0223	0.0223	0.0255	0.0255	0.0223	0.0223	0.262	0.0223
38	38	0.262	0.0292	0.0292	0.0334	0.0334	0.0334	0.0223	0.262	55	55	55	0.0223	0.0223	0.0255	0.0255	0.0223	0.0223	0.262	0.0223

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 1.5619E 06 1.4282E 06 0.914 4.92 1125.9 1.1899E 06 0.3048 1.000 HAM/HT 1.000 TEST NO. 158 RUN NO. 10

CHAN	T/C	TM(DEC R)	Q1M/CH2	Q1BTU/FT2-SEC	QS(M/CH2)	QS(BTU/FT2-SEC)	ST(I,907)	ST(O,874)	TIME(SEC)
21	61	309.7	0.120	0.106	8.466	7.459	7.807E-05	8.2294E-05	0.377
22	62	309.6	0.019	0.016	8.467	7.461	2.083E-05	1.2734E-05	0.474
23	63	309.0	-0.009	-0.008	8.473	7.466	-5.661E-06	-5.9663E-06	1.786
24	64	308.9	0.006	0.005	8.475	7.467	3.917E-06	4.1222E-06	-0.742
25	26	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
26	27	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	28	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	28	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	29	308.8	0.001	0.001	8.475	7.468	6.3624E-07	6.7047E-07	-1.561
30	30	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	31	308.3	-0.002	-0.002	8.480	7.472	-1.3254E-06	-1.3466E-06	1.233
32	32	308.6	-0.006	-0.005	8.478	7.470	-3.5693E-06	-3.7613E-06	1.556
33	33	308.7	-0.001	-0.001	8.476	7.469	-4.8843E-07	-5.1473E-07	2.831
34	34	309.1	0.006	0.005	8.472	7.465	4.0349E-06	4.2521E-06	0.560
35	35	309.2	0.008	0.007	8.471	7.464	5.1719E-06	5.4494E-06	0.532
36	36	309.5	0.021	0.019	8.468	7.461	1.3859E-05	1.4599E-05	0.687
37	37	309.9	0.070	0.062	8.464	7.458	4.5653E-05	4.8114E-05	0.703
38	38	310.3	0.247	0.216	8.460	7.455	1.6053E-04	1.6919E-04	0.467
39	39	310.1	0.371	0.327	8.462	7.456	2.4054E-04	2.5351E-04	0.211
40	40	310.6	0.598	0.531	8.456	7.451	2.5879E-04	2.7275E-04	-0.099
41	41	310.2	0.457	0.403	8.461	7.455	2.9191E-04	3.1291E-04	-0.166
42	42	310.8	0.510	0.450	8.455	7.450	3.3142E-04	3.4950E-04	-0.049
43	43	311.3	0.492	0.433	8.450	7.445	3.1966E-04	3.3691E-04	0.165
44	44	311.3	0.403	0.408	8.450	7.445	3.0106E-04	3.1732E-04	0.148
45	45	310.9	0.454	0.400	8.453	7.449	2.9514E-04	3.1107E-04	0.130
46	46	311.0	0.399	0.352	8.453	7.448	2.5954E-04	2.7354E-04	0.116
47	47	310.8	0.445	0.392	8.455	7.450	2.8888E-04	3.0446E-04	0.117
48	48	310.6	0.447	0.394	8.457	7.452	2.9009E-04	3.0573E-04	0.178
49	49	310.5	0.426	0.375	8.458	7.453	2.7660E-04	2.9152E-04	0.114
50	50	310.3	0.426	0.375	8.460	7.454	2.7642E-04	2.9132E-04	0.129
51	65	308.6	0.014	0.012	8.478	7.470	8.8295E-06	9.3044E-06	1.690
52	66	308.9	-0.001	-0.001	8.475	7.467	-7.4538E-07	-7.8548E-07	-0.172
53	67	308.7	-0.005	-0.004	8.476	7.469	-3.1141E-06	-3.2816E-06	0.476
54	68	309.7	0.031	0.027	8.466	7.460	1.9806E-05	2.0873E-05	0.523
55	69	310.1	0.188	0.166	8.462	7.456	1.2220E-04	1.2879E-04	0.333

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2781E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER

MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158

RUN NO. 10

MACH	K	REL	ER	RE/FT	R-L	REL	ER	RE/FT	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	PS(METER)	HAW/HT	RS(FT)	HAW/HT
5.10	1.53	E 06	1.3993E 06	0.914	4.92	1139.6	1.2058E 06	0.3048	0.3048	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
MACH	5.10	4.6644E 05	1.3993E 06	3.700	72.32	2051.3	518.53	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
CHAN	T/C	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	MM/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)			
56	71	0.257	-0.0026	-0.0030	-0.0031	66	81	0.260	0.0348	0.0348	0.0398	0.0419			
57	72	0.257	-0.0005	-0.0005	-0.0006	67	82	0.260	0.0481	0.0481	0.0550	0.0579			
58	73	0.257	-0.0034	-0.0039	-0.0041	68	83	0.261	0.0528	0.0528	0.0604	0.0636			
59	74	0.257	-0.0028	-0.0032	-0.0034	69	84	0.261	0.0517	0.0517	0.0592	0.0624			
60	75	0.258	-0.0015	-0.0017	-0.0018	70	85	0.262	0.0534	0.0534	0.0611	0.0644			
61	76	0.258	-0.0030	-0.0034	-0.0036	71	86	0.262	0.0493	0.0493	0.0564	0.0595			
62	77	0.258	-0.0016	-0.0018	-0.0019	72	87	0.262	0.0479	0.0479	0.0548	0.0577			
63	78	0.258	0.0004	0.0004	0.0005	73	88	0.263	0.0344	0.0344	0.0394	0.0415			
64	79	0.259	0.0054	0.0061	0.0065	74	89	0.264	0.0495	0.0495	0.0566	0.0597			
65	80	0.259	0.0252	0.0288	0.0304	75	90	0.263	0.0500	0.0500	0.0572	0.0603			

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 1.5333E 06 REL LENGTH(METER) PT(ATM) TT(DEC K) WT(JOULE/KG) PS(METER) HAM/HT TEST NO. 158
 MACH 5.10 RE/FT 4.6644E 05 REL LENGTH(FT) PT(PSI) TT(DEC R) MI(LBU/LBM) RS(FT) HAM/HT RUN NO. 10

CHAN	T/C	TW(DEC K)	TW(DEC R)	Q(W/CM2)	Q(10TU/FT2-SEC)	QS(W/CM2)	QS(18TU/FT2-SEC)	ST(10.907)	ST(10.874)	TIME(SEC)
56	71	308.4	555.0	-0.023	-0.020	8.632	7.605	-1.4474E-05	-1.5240E-05	1.016
57	72	308.4	555.2	-0.004	-0.004	8.631	7.605	-2.5567E-06	-2.6934E-06	-0.532
58	73	308.0	555.5	-0.029	-0.026	8.630	7.604	-1.8690E-05	-1.9680E-05	1.183
59	74	309.2	555.8	-0.124	-0.022	8.628	7.602	-1.5721E-05	-1.6562E-05	1.337
60	75	309.5	556.5	-0.013	-0.011	8.624	7.599	-8.2933E-06	-8.7372E-06	1.391
61	76	309.8	557.1	-0.026	-0.023	8.620	7.596	-1.6507E-05	-1.7391E-05	1.318
62	77	310.3	558.6	-0.114	-0.012	8.617	7.593	-8.6989E-06	-9.1650E-06	1.571
63	78	310.7	559.3	0.003	0.003	8.612	7.588	2.1395E-06	2.2542E-06	-0.800
64	79	311.2	560.2	0.046	0.041	8.608	7.584	2.9682E-05	3.1274E-05	0.842
65	80	312.0	561.6	0.217	0.191	8.603	7.580	1.3957E-04	1.4706E-04	0.396
66	81	312.5	562.6	0.299	0.264	8.595	7.573	1.9273E-04	2.0308E-04	-0.306
67	82	313.3	563.9	0.413	0.364	8.589	7.568	2.6614E-04	2.8045E-04	-0.242
68	83	313.8	564.8	0.453	0.399	8.581	7.561	2.9243E-04	3.0817E-04	0.034
69	84	314.2	565.8	0.444	0.391	8.576	7.557	2.8650E-04	3.0194E-04	0.053
70	85	314.4	565.9	0.423	0.404	8.571	7.553	2.9605E-04	3.1201E-04	0.128
71	86	314.7	566.4	0.410	0.372	8.570	7.551	2.7328E-04	2.8801E-04	0.065
72	87	315.8	568.4	0.295	0.361	8.567	7.548	2.6513E-04	2.7943E-04	0.009
73	88	316.4	569.5	0.423	0.260	8.556	7.539	1.9071E-04	2.0101E-04	-0.158
74	89	316.0	568.7	0.427	0.373	8.549	7.533	2.7401E-04	2.8882E-04	0.041
75	90	316.0	568.7	0.427	0.377	8.554	7.537	2.7683E-04	2.9178E-04	0.055

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2665E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
 REL LENGTH(METER) 2.4861E 06
 REL LENGTH(FT) 3.000
 PI(P/SI) 122.35

RE/METER 2.7188E 06
 REL LENGTH(FT) 3.000
 PI(P/SI) 122.35

RE/METER 2.7188E 06
 REL LENGTH(FT) 3.000
 PI(P/SI) 122.35

TEST NO. 158
 RUN NO. 11
 HAW/HT 1.000
 HAM/HT 1.000
 RS(METER) 0.3048
 RS(FT) 1.0000
 HT(JOULE/KG) 1.1681E 06
 HT(BTU/LBM) 502.29
 TT(DEG K) 1107.0
 TT(DEG R) 1992.6
 CHAN T/C

CHAN	T/C	HW/HT	G/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	G/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.267	0.0003	0.0006	0.0007	0.0007	11	11	0.269	0.0623	0.0623	0.0714	0.0753
2	2	0.268	0.0064	0.0074	0.0078	0.0078	12	12	0.269	0.0660	0.0660	0.0757	0.0798
3	3	0.268	0.0272	0.0312	0.0329	0.0329	13	13	0.269	0.0649	0.0649	0.0743	0.0784
4	4	0.268	0.0310	0.0356	0.0375	0.0375	14	14	0.269	0.0673	0.0673	0.0771	0.0813
5	5	0.262	0.0356	0.0408	0.0430	0.0430	15	15	0.268	0.0787	0.0787	0.0901	0.0950
6	6	0.269	0.0373	0.0427	0.0451	0.0451	16	16	0.266	-0.0004	-0.0004	-0.0009	-0.0010
7	7	0.269	0.0468	0.0536	0.0565	0.0565	17	17	0.266	-0.0008	-0.0008	-0.0008	-0.0008
8	8	0.269	0.0609	0.0698	0.0736	0.0736	18	18	0.267	0.0007	0.0007	0.0008	0.0008
9	9	0.270	0.0608	0.0696	0.0734	0.0734	19	19	0.267	0.0052	0.0052	0.0059	0.0063
10	10	0.269	0.0583	0.0669	0.0705	0.0705	20	20	0.268	0.0260	0.0260	0.0298	0.0315

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***																			
MACH		REL		TW(DEG K)		TW(DEG R)		Q(BTU/FT2-SEC)		QS(W/CM2)		OS(BTU/FT2-SEC)		ST(L/907)		TIME(SEC)			
5.10	2.718E 06	2.981E 06	0.914	8.32	1107.0	1.1681E 06	0.3048	RS(METER)	HAW/HT	1.000	RS(FT)	HAW/HT	1.000	TEST NO.	158	RS(METER)	HAW/HT		
5.10	8.2871E 05	2.4861E 06	3.000	122.35	1992.6	502.29	1.0000	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	1.000	RUN NO.	11	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	
1	310.4	558.7	0.306	0.005	10.730	9.455	2.3124E-06	2.4381E-06	10.730	9.455	2.3124E-06	2.4381E-06	10.730	9.455	2.3124E-06	2.4381E-06	10.730	9.455	2.3124E-06
2	311.2	560.1	0.069	0.061	10.719	9.445	2.6864E-05	2.8326E-05	10.719	9.445	2.6864E-05	2.8326E-05	10.719	9.445	2.6864E-05	2.8326E-05	10.719	9.445	2.6864E-05
3	311.7	561.1	0.291	0.257	10.712	9.439	1.1359E-04	1.1977E-04	10.712	9.439	1.1359E-04	1.1977E-04	10.712	9.439	1.1359E-04	1.1977E-04	10.712	9.439	1.1359E-04
4	312.0	561.7	0.332	0.293	10.708	9.435	1.2937E-04	1.3663E-04	10.708	9.435	1.2937E-04	1.3663E-04	10.708	9.435	1.2937E-04	1.3663E-04	10.708	9.435	1.2937E-04
5	312.1	561.8	0.381	0.336	10.707	9.434	1.4869E-04	1.5679E-04	10.707	9.434	1.4869E-04	1.5679E-04	10.707	9.434	1.4869E-04	1.5679E-04	10.707	9.434	1.4869E-04
6	312.7	562.8	0.399	0.352	10.699	9.427	1.5570E-04	1.6419E-04	10.699	9.427	1.5570E-04	1.6419E-04	10.699	9.427	1.5570E-04	1.6419E-04	10.699	9.427	1.5570E-04
7	312.8	563.0	0.501	0.441	10.698	9.425	1.9534E-04	2.0599E-04	10.698	9.425	1.9534E-04	2.0599E-04	10.698	9.425	1.9534E-04	2.0599E-04	10.698	9.425	1.9534E-04
8	313.3	564.0	0.551	0.574	10.690	9.420	2.5423E-04	2.6811E-04	10.690	9.420	2.5423E-04	2.6811E-04	10.690	9.420	2.5423E-04	2.6811E-04	10.690	9.420	2.5423E-04
9	313.5	564.5	0.549	0.572	10.688	9.417	2.5366E-04	2.6751E-04	10.688	9.417	2.5366E-04	2.6751E-04	10.688	9.417	2.5366E-04	2.6751E-04	10.688	9.417	2.5366E-04
10	313.4	564.1	0.524	0.550	10.690	9.419	2.4359E-04	2.5688E-04	10.690	9.419	2.4359E-04	2.5688E-04	10.690	9.419	2.4359E-04	2.5688E-04	10.690	9.419	2.4359E-04
11	313.3	564.0	0.665	0.587	10.691	9.420	2.6006E-04	2.7425E-04	10.691	9.420	2.6006E-04	2.7425E-04	10.691	9.420	2.6006E-04	2.7425E-04	10.691	9.420	2.6006E-04
12	313.4	564.0	0.706	0.622	10.690	9.419	2.7570E-04	2.9075E-04	10.690	9.419	2.7570E-04	2.9075E-04	10.690	9.419	2.7570E-04	2.9075E-04	10.690	9.419	2.7570E-04
13	313.3	563.9	0.793	0.611	10.691	9.420	2.7074E-04	2.8552E-04	10.691	9.420	2.7074E-04	2.8552E-04	10.691	9.420	2.7074E-04	2.8552E-04	10.691	9.420	2.7074E-04
14	312.8	563.0	0.720	0.634	10.698	9.426	2.8077E-04	2.9609E-04	10.698	9.426	2.8077E-04	2.9609E-04	10.698	9.426	2.8077E-04	2.9609E-04	10.698	9.426	2.8077E-04
15	312.2	561.9	0.842	0.742	10.706	9.434	3.2822E-04	3.4621E-04	10.706	9.434	3.2822E-04	3.4621E-04	10.706	9.434	3.2822E-04	3.4621E-04	10.706	9.434	3.2822E-04
16	308.3	556.7	-0.005	-0.004	10.745	9.468	-1.8605E-06	-1.9614E-06	10.745	9.468	-1.8605E-06	-1.9614E-06	10.745	9.468	-1.8605E-06	-1.9614E-06	10.745	9.468	-1.8605E-06
17	309.2	556.6	-0.009	-0.008	10.745	9.468	-3.3508E-06	-3.5326E-06	10.745	9.468	-3.3508E-06	-3.5326E-06	10.745	9.468	-3.3508E-06	-3.5326E-06	10.745	9.468	-3.3508E-06
18	310.2	558.4	0.008	0.007	10.732	9.457	2.9226E-06	3.0814E-06	10.732	9.457	2.9226E-06	3.0814E-06	10.732	9.457	2.9226E-06	3.0814E-06	10.732	9.457	2.9226E-06
19	310.9	559.6	0.056	0.049	10.723	9.448	2.1649E-05	2.2877E-05	10.723	9.448	2.1649E-05	2.2877E-05	10.723	9.448	2.1649E-05	2.2877E-05	10.723	9.448	2.1649E-05
20	311.3	560.	0.279	0.246	10.718	9.444	1.0871E-04	1.1462E-04	10.718	9.444	1.0871E-04	1.1462E-04	10.718	9.444	1.0871E-04	1.1462E-04	10.718	9.444	1.0871E-04

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1899E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 11

MACH 5.10 RE/METER 2.5616E 06 REL 2.3423E 06 H/HS(1.000) H/HS(0.907) H/HS(0.874)
 MACH 5.10 RE/FT 7.8076E 05 REL 3.000 LENGTH(FT) 3.000 H/HS(1.000) H/HS(0.907) H/HS(0.874)
 RS(METER) 0.3048 HAW/HT 1.000
 RS(FT) 1.0000 HAW/HT 1.000

CHAN	T/C	HW/HT	Q/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	PT(ATM)	TT(1.000)	TT(0.907)	TT(0.874)	HT(JOULE/KG)	RS(METER)	HAW/HT
21	61	0.258	0.0136	0.0156	0.0164	0.0164	0.0164	39	39	39	0.0429	0.0429	0.0517
22	62	0.258	0.0016	0.0018	0.0019	0.0019	0.0019	40	40	40	0.0497	0.0497	0.0599
23	63	0.257	0.0003	0.0003	0.0003	0.0003	0.0003	41	41	41	0.0530	0.0530	0.0638
24	64	0.257	0.0008	0.0009	0.0010	0.0010	0.0010	42	42	42	0.0628	0.0628	0.0718
25	25	0.257	0.0008	0.0008	0.0008	0.0008	0.0008	43	43	43	0.0605	0.0605	0.0692
26	26	0.257	0.0008	0.0008	0.0008	0.0008	0.0008	44	44	44	0.0566	0.0566	0.0648
27	27	0.257	0.0008	0.0008	0.0008	0.0008	0.0008	45	45	45	0.0559	0.0559	0.0639
28	28	0.257	0.0008	0.0008	0.0008	0.0008	0.0008	46	46	46	0.0490	0.0490	0.0591
29	29	0.257	0.0005	0.0006	0.0006	0.0006	0.0006	47	47	47	0.0557	0.0557	0.0671
30	30	0.256	0.0002	0.0003	0.0003	0.0003	0.0003	48	48	48	0.0558	0.0558	0.0638
31	31	0.256	-0.0012	-0.0014	-0.0014	-0.0014	-0.0014	49	49	49	0.0552	0.0552	0.0631
32	32	0.256	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	50	50	50	0.0576	0.0576	0.0658
33	33	0.257	0.0015	0.0017	0.0018	0.0018	0.0018	51	51	51	-0.0000	-0.0000	-0.0000
34	34	0.257	0.0009	0.0011	0.0011	0.0011	0.0011	52	52	52	-0.0003	-0.0003	-0.0004
35	35	0.257	0.0009	0.0009	0.0009	0.0009	0.0009	53	53	53	-0.0002	-0.0002	-0.0002
36	36	0.257	0.0030	0.0034	0.0036	0.0036	0.0036	54	54	54	0.0044	0.0044	0.0051
37	37	0.258	0.0091	0.0105	0.0110	0.0110	0.0110	55	55	55	0.0240	0.0240	0.0275
38	38	0.259	0.0319	0.0365	0.0384	0.0384	0.0384	56	56	56	0.0240	0.0240	0.0275

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER WOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
 RE VETER 2.5610E 06
 RE/FT 7.8076E 05
 REL LENGTH(METER) 0.914
 REL LENGTH(FT) 3.000
 P1(P/SI) 122.35
 P2(P/SI) 2064.2
 HT(BTU/LBM) 522.12
 RS(FT) 1.000
 HAM/HT 1.000
 HAM/HT 1.000
 TEST NO. 158
 RUN NO. 11

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q1(W/CM2)	Q1(BTU/FT2-SEC)	Q5(W/CM2)	Q5(BTU/FT2-SEC)	ST(0.907)	ST(10.674)	TIME(SEC)
21	61	311.9	561.3	0.154	0.135	11.285	9.943	5.8278E-05	6.1400E-05	0.280
22	62	311.6	560.8	0.018	0.010	11.288	9.946	6.7908E-06	7.1544E-06	0.270
23	63	310.6	559.0	0.302	0.303	11.302	9.959	1.1681E-06	1.2305E-06	0.266
24	64	310.2	558.4	0.309	0.308	11.307	9.963	3.4481E-06	3.6324E-06	0.487
25	26	-0.0	-0.0	.....	.....	.....	.....	3.0770E-02	3.1940E-02	0.000
26	27	-0.0	-0.0	.....	.....	.....	.....	3.0770E-02	3.1940E-02	0.000
27	27	-0.0	-0.0	.....	.....	.....	.....	3.0770E-02	3.1940E-02	0.000
28	28	-0.0	-0.0	.....	.....	.....	.....	3.0770E-02	3.1940E-02	0.000
29	29	310.3	558.5	0.306	0.305	11.306	9.962	2.1695E-06	2.2854E-06	0.221
30	30	-0.0	-0.0	.....	.....	.....	.....	3.0770E-02	3.1940E-02	0.000
31	31	309.4	556.9	0.002	0.002	11.317	9.972	1.0165E-06	1.0708E-06	1.779
32	32	309.9	557.8	-0.013	-0.012	11.311	9.967	-5.0531E-06	-5.3231E-06	1.482
33	33	310.1	558.2	-0.001	-0.001	11.308	9.964	-4.2676E-07	-4.4957E-07	3.323
34	34	310.7	559.3	0.017	0.015	11.300	9.957	6.5426E-06	6.8925E-06	0.682
35	35	311.0	559.7	0.311	0.309	11.297	9.954	4.0207E-06	4.2350E-06	0.192
36	36	311.4	560.6	0.333	0.329	11.290	9.948	1.2616E-05	1.3292E-05	0.386
37	37	312.1	561.8	0.103	0.091	11.281	9.940	3.9104E-05	4.1200E-05	0.639
38	38	312.6	562.8	0.359	0.317	11.274	9.934	1.3636E-04	1.4367E-04	0.449
39	39	312.4	562.2	0.484	0.426	11.278	9.937	1.8344E-04	1.9328E-04	0.074
40	40	313.3	563.9	0.560	0.493	11.266	9.926	4.1255E-04	2.2396E-04	0.110
41	41	312.3	562.2	0.597	0.526	11.278	9.938	2.2446E-04	2.3860E-04	0.317
42	42	313.2	563.8	0.707	0.623	11.266	9.927	2.6849E-04	2.8290E-04	0.115
43	43	313.8	564.8	0.681	0.600	11.259	9.920	2.5869E-04	2.7258E-04	0.147
44	44	313.8	564.9	0.637	0.562	11.258	9.920	2.4220E-04	2.5521E-04	0.130
45	45	313.3	563.9	0.529	0.555	11.265	9.926	2.3899E-04	2.5182E-04	0.109
46	46	313.1	563.6	0.552	0.487	11.267	9.928	2.0965E-04	2.2090E-04	0.101
47	47	312.9	563.3	0.628	0.553	11.270	9.930	2.3625E-04	2.5103E-04	0.085
48	48	312.5	562.6	0.629	0.554	11.275	9.935	2.3850E-04	2.5129E-04	0.127
49	49	312.5	562.5	0.622	0.548	11.276	9.936	2.3598E-04	2.4863E-04	0.077
50	50	312.2	561.9	0.549	0.572	11.280	9.939	2.4618E-04	2.5938E-04	0.095
51	65	309.4	557.0	-0.000	-0.000	11.317	9.972	-1.3384E-07	-1.4098E-07	-21.011
52	66	310.0	558.0	-0.004	-0.003	11.310	9.965	-1.4800E-06	-1.5591E-06	-0.506
53	67	310.1	558.2	-0.002	-0.002	11.308	9.964	-7.2233E-07	-7.6093E-07	-2.379
54	68	311.4	560.5	0.050	0.044	11.290	9.948	1.8907E-05	1.9919E-05	0.658
55	69	312.0	561.7	0.271	0.239	11.282	9.941	1.0273E-04	1.0924E-04	0.346

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1325E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	TEST NO.	RUN NO.
5.10	2.4875E (06)	2.2745E 06	0.914	0.914	8.32	1166.8	1.2375E 06	0.3048	0.0000	1.0000	1.0000	1.0000	11	11
MACH	RE/FT	REL	LENGTH(FT)	LENGTH(FT)	PT(ATM)	TI(DEG F)	HI(BTU/LBM)	RS(FT)	RS(FT)	RS(FT)	RS(FT)	RS(FT)		
5.10	7.5819E (5)	2.2745E 06	3.000	3.000	122.35	2100.3	532.15	1.0000	1.0000	1.0000	1.0000	1.0000		
CHAN	T/C	HW/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	
56	71	0.252	-0.0017	-0.0017	-0.0019	-0.0020	66	81	0.256	0.0298	0.0298	0.0341	0.0359	
57	72	0.252	-0.0011	-0.0011	-0.0013	-0.0013	67	82	0.257	0.0426	0.0426	0.0487	0.0513	
58	73	0.252	-0.0024	-0.0024	-0.0028	-0.0029	68	83	0.258	0.0498	0.0498	0.0570	0.0600	
59	74	0.252	-0.0020	-0.0020	-0.0023	-0.0024	69	84	0.259	0.0484	0.0484	0.0554	0.0583	
60	75	0.253	-0.0008	-0.0008	-0.0009	-0.0010	70	85	0.259	0.0509	0.0509	0.0582	0.0614	
61	76	0.253	-0.0021	-0.0021	-0.0024	-0.0025	71	86	0.260	0.0479	0.0479	0.0548	0.0578	
62	77	0.254	-0.0022	-0.0022	-0.0025	-0.0026	72	87	0.260	0.0468	0.0468	0.0535	0.0564	
63	78	0.254	-0.0000	-0.0000	-0.0000	-0.0000	73	88	0.261	0.0448	0.0448	0.0512	0.0540	
64	79	0.254	0.0034	0.0034	0.0039	0.0041	74	89	0.262	0.0514	0.0514	0.0588	0.0620	
65	80	0.256	0.0220	0.0220	0.0251	0.0264	75	90	0.262	0.0517	0.0517	0.0572	0.0624	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***														
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TI(DEG K)	TI(DEG X)	MI(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.	158	RS(FT)	HAM/MI	RUN NO.	11
5.10	7.5016E 06	2.2745E 06	0.914	8.32	1165.8	1.2375E 06	0.3048	1.000			1.000			
MACH	RE/FT	REL LENGTH(FT)	PI(PSI)	TI(DEG R)	TI(DEG R)	MI(LB/IN/LBM)	RS(FT)	HAM/MI						
5.10	7.5016E 05	2.2745E 06	132.34	2107.3	2107.3	532.15	1.000	1.000						
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(M/CM2)	QS(BTU/FT2-SEC)	SI(C.907)	SI(0.874)	TIME(SEC)				
56	71	310.0	558.1	-0.219	-0.017	11.598	10.220	-7.1635E-06	-7.5433E-06	0.711				
57	72	310.1	558.3	-0.213	-0.011	11.597	10.218	-4.8362E-06	-5.0926E-06	0.408				
58	73	310.4	558.7	-0.228	-0.025	11.593	10.215	-1.0436E-05	-1.0889E-05	0.948				
59	74	310.6	559.4	-0.223	-0.021	11.588	10.211	-0.7515E-06	-9.2160E-06	1.128				
60	75	311.4	560.4	-0.210	-0.008	11.580	10.204	-3.5719E-06	-3.7637E-06	1.100				
61	76	312.0	561.5	-0.224	-0.021	11.572	10.197	-8.9744E-06	-9.4482E-06	1.343				
62	77	312.4	562.4	-0.025	-0.022	11.566	10.191	-9.2511E-06	-9.8527E-06	1.471				
63	78	313.3	564.0	-0.000	0.000	11.554	10.181	-1.2232E-07	-1.2883E-07	28.780				
64	79	314.0	565.2	0.039	0.034	11.545	10.172	1.4849E-05	1.5429E-05	0.604				
65	80	315.0	566.9	0.253	0.223	11.532	10.161	5.5130E-05	1.0021E-04	0.276				
66	81	316.0	568.8	0.343	0.302	11.518	10.149	1.2908E-04	1.3594E-04	-0.610				
67	82	316.8	570.3	0.491	0.432	11.507	10.139	1.8459E-04	1.9447E-04	-0.310				
68	83	317.9	572.2	0.573	0.505	11.492	10.126	2.1582E-04	2.2738E-04	-0.090				
69	84	318.6	573.6	0.556	0.490	11.483	10.118	2.0966E-04	2.2090E-04	-0.092				
70	85	319.4	575.0	0.584	0.515	11.472	10.108	2.2059E-04	2.3243E-04	-0.105				
71	86	320.3	576.5	0.549	0.484	11.461	10.098	2.0759E-04	2.1874E-04	0.322				
72	87	320.2	576.3	0.536	0.472	11.452	10.100	2.0256E-04	2.1343E-04	-0.114				
73	88	322.1	579.8	0.512	0.451	11.436	10.077	1.9381E-04	2.0431E-04	0.089				
74	89	322.8	581.1	0.507	0.518	11.426	10.068	2.2272E-04	2.3473E-04	-0.093				
75	90	322.2	580.0	0.591	0.521	11.434	10.075	2.2401E-04	2.3609E-04	-0.146				

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1045E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 12
 MACH 5.10
 RE/METER 3.7923E 06
 REL LENGTH(METER) 0.914
 PIPS(I) 17.06
 LENGTH(FT) 3.000

TT(DEG K) 1120.1
 HT(JOULE/KG) 1.1832E 06
 RS(IEI) 0.3048
 HAM/HT 1.000
 HAM/HT 1.000

TT(DEG R) 2016.2
 MI(IMP/LBM) 508.80
 M/MS(1.000) 0.1331
 H/MS(0.907) 0.1525
 M/MS(0.874) 0.1608

PIPS(I) 17.06
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CHAN	T/C	MM/MT	Q/Q5	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	MM/MT	Q/Q5	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
1	1	0.265	0.0016	0.0018	0.0019	0.0019	11	11	0.268	0.1331	0.1331	0.1525	0.1608
2	2	0.266	0.0092	0.0105	0.0111	0.0111	12	12	0.268	0.1410	0.1410	0.1615	0.1703
3	3	0.266	0.0448	0.0448	0.0448	0.0448	13	13	0.268	0.1524	0.1524	0.1745	0.1840
4	4	0.266	0.0572	0.0655	0.0691	0.0691	14	14	0.267	0.1573	0.1573	0.1801	0.1899
5	5	0.267	0.0767	0.0878	0.0926	0.0926	15	15	0.267	0.1859	0.1859	0.2129	0.2245
6	6	0.267	0.0874	0.1001	0.1055	0.1055	16	16	0.264	-0.0002	-0.0002	-0.0002	-0.0002
7	7	0.267	0.1025	0.1174	0.1238	0.1238	17	17	0.264	-0.0002	-0.0002	-0.0002	-0.0002
8	8	0.268	0.1183	0.1355	0.1429	0.1429	18	18	0.265	0.0015	0.0015	0.0017	0.0018
9	9	0.268	0.1179	0.1350	0.1424	0.1424	19	19	0.265	0.0084	0.0084	0.0092	0.0097
10	10	0.268	0.1184	0.1356	0.1430	0.1430	20	20	0.266	0.0436	0.0436	0.0499	0.0528

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 3.7923E 06 3.4677E 06 3.500 1.7605 2016.2 506.60 1.000C 1.000
 MACH 5.20 1.1599E 06 3.4677E 06 3.500 1.7605 2016.2 506.60 1.000C 1.000

TEST NO. 158
 RUN NO. 12

RE/METER
 5.7923E 06
 1.1599E 06

REL
 3.4677E 06
 3.4677E 06

REL
 3.500
 3.500

REL
 1.7605
 1.7605

REL
 2016.2
 2016.2

REL
 506.60
 506.60

REL
 1.000C
 1.000C

REL
 1.000
 1.000

CHAM	T/C	TM(DEG K)	TM(DEG R)	Q1M/CM2	Q1BTU/FT2-SEC	Q5(M/CM2)	Q5(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	311.8	561.3	0.020	0.018	13.001	11.455	5.4906E-06	5.7890E-06	0.373
2	2	312.8	563.0	0.120	0.105	12.905	11.442	3.2495E-05	3.4258E-05	0.757
3	3	313.5	564.3	0.581	0.512	12.974	11.432	1.2800E-04	1.3655E-04	0.829
4	4	313.9	565.0	0.742	0.634	12.968	11.424	2.0190E-04	2.1287E-04	0.431
5	5	314.0	565.2	0.994	0.876	12.966	11.424	2.7047E-04	2.8516E-04	0.106
6	6	314.7	566.5	1.132	0.997	12.954	11.415	3.5927E-04	3.2503E-04	-0.006
7	7	314.9	566.8	1.327	1.169	12.951	11.412	3.6160E-04	3.8127E-04	0.101
8	8	315.6	568.1	1.531	1.349	12.940	11.402	4.1757E-04	4.4090E-04	0.395
9	9	315.9	568.5	1.525	1.343	12.936	11.398	4.1594E-04	4.3859E-04	0.372
10	10	315.7	568.2	1.532	1.350	12.939	11.401	4.1783E-04	4.4058E-04	0.391
11	11	315.6	568.1	1.723	1.518	12.940	11.402	4.6976E-04	4.9534E-04	0.416
12	12	315.6	568.1	1.824	1.607	12.940	11.402	4.9750E-04	5.2459E-04	0.431
13	13	315.5	567.9	1.972	1.737	12.942	11.404	5.3765E-04	5.6692E-04	0.474
14	14	315.9	568.9	2.037	1.795	12.951	11.411	5.5497E-04	5.8516E-04	0.505
15	15	316.3	569.7	2.409	2.123	12.941	11.420	6.5396E-04	6.7181E-04	0.531
16	16	316.6	570.0	-0.002	-0.002	13.021	11.473	-5.8335E-07	-6.1404E-07	0.772
17	17	310.6	559.1	-0.003	-0.002	13.020	11.473	-7.5334E-07	-7.9407E-07	0.442
18	18	312.7	561.1	0.019	0.017	13.002	11.457	5.1993E-06	5.4808E-06	0.194
19	19	312.6	562.6	0.105	0.092	12.989	11.445	2.8484E-05	3.0029E-05	0.798
20	20	310.1	563.6	0.565	0.496	12.980	11.437	1.5366E-04	1.6199E-04	0.658

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.0861E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA

TEST NO. 158
RUN NO. 12

MACH 5.10
MACH 5.10

RE/METER 3.5025E 06
RE/FT 1.0676E 06

REL LENGTH(METER) 0.914
REL LENGTH(FT) 3.000

PI(ATM) 11.84
PI(P/SI) 174.06

TI(DEG K) 1173.9
TI(DEG R) 2113.1

HT(JOULE/KG) 1.2458E 06
HT(BTU/LBM) 535.73

RS(METER) 0.3048
RS(FT) 1.0000

HAW/HT 1.000
HAW/HT 1.000

CHAN	T/C	H/MS(1.000)	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	Y/C	H/MS(1.000)	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
21	61	0.253	-0.0186	0.0212	0.0223	0.0223	39	0.254	0.0631	0.0721	0.0721	0.0760
22	62	0.253	0.0028	0.0032	0.0034	0.0034	40	0.255	0.0761	0.0869	0.0869	0.0915
23	63	0.252	0.0006	0.0007	0.0007	0.0007	41	0.254	0.0826	0.0943	0.0943	0.0993
24	64	0.252	0.0011	0.0012	0.0013	0.0013	42	0.255	0.0967	0.1105	0.1105	0.1164
25	26	0.252	0.0000	0.0000	0.0000	0.0000	43	0.255	0.0892	0.1020	0.1020	0.1074
26	26	0.252	0.0000	0.0000	0.0000	0.0000	44	0.255	0.0835	0.0954	0.0954	0.1005
27	27	0.252	0.0000	0.0000	0.0000	0.0000	45	0.255	0.0853	0.0975	0.0975	0.1026
28	28	0.252	0.0000	0.0000	0.0000	0.0000	46	0.255	0.0781	0.0893	0.0893	0.0940
29	29	0.252	0.0025	0.0029	0.0031	0.0031	47	0.255	0.0953	0.1089	0.1089	0.1147
30	30	0.251	0.0000	0.0000	0.0000	0.0000	48	0.254	0.1048	0.1197	0.1197	0.1261
31	31	0.251	-0.0000	-0.0001	-0.0001	-0.0001	49	0.254	0.1120	0.1279	0.1279	0.1348
32	32	0.251	0.0011	0.0012	0.0013	0.0013	50	0.254	0.1246	0.1423	0.1423	0.1499
33	33	0.251	0.0013	0.0015	0.0016	0.0016	51	0.251	0.0005	0.0006	0.0006	0.0006
34	34	0.254	0.0040	0.0045	0.0048	0.0048	52	0.251	-0.0004	-0.0004	-0.0004	-0.0005
35	35	0.252	0.0036	0.0044	0.0044	0.0044	53	0.252	0.0013	0.0015	0.0015	0.0216
36	36	0.253	0.0051	0.0059	0.0062	0.0062	54	0.253	0.0071	0.0081	0.0081	0.0085
37	37	0.253	0.0135	0.0154	0.0162	0.0162	55	0.254	0.0391	0.0446	0.0446	0.0470
38	38	0.254	0.0496	0.0566	0.0597	0.0597						

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 3.5225E C6 3.2027E 06 REL LENGTH(METER) PT(ATM) TT(DEG K) NT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.10 RE/FT 1.0676E 06 3.2027E 06 REL LENGTH(FT) P1(PSL) I1(DEG R) H1(BTU/LBM) RSLFT1 HAM/HT RUN NO. 12
 1.0676E 06 3.2027E 06 174.06 2113.1 535.73 1.0000 1.0000

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(M/CM2)	Q(BTU/FT2-SEC)	S(M/CM2)	QS(BTU/FT2-SEC)	ST(O.907)	ST(O.874)	TIME(SEC)
21	61	314.2	565.5	0.227	0.227	13.890	12.239	6.7699E-05	7.1298E-05	0.240
22	62	313.8	564.9	0.239	0.034	13.896	12.244	1.0219E-05	1.0762E-05	-0.121
23	63	312.6	562.6	0.308	0.007	13.216	12.262	2.2041E-06	2.3210E-06	-0.588
24	64	312.2	562.0	0.015	0.013	13.922	12.267	3.8325E-06	4.0249E-06	-0.363
25	26	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	27	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28	28	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29	29	312.1	561.8	0.035	0.031	13.923	12.268	9.2765E-05	9.7684E-06	0.635
30	30	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000
31	31	311.2	560.1	-0.001	-0.001	13.939	12.282	-1.6842E-07	-1.7733E-07	0.802
32	32	311.6	560.9	0.015	0.013	13.931	12.275	3.8432E-06	4.0469E-06	1.034
33	33	311.9	561.5	0.018	0.016	13.926	12.271	4.7069E-06	4.9565E-06	0.671
34	34	312.6	562.6	0.035	0.049	13.916	12.262	1.4519E-05	1.5289E-05	0.715
35	35	312.8	563.1	0.050	0.046	13.912	12.258	1.3111E-05	1.3807E-05	0.290
36	36	313.4	564.2	0.071	0.063	13.902	12.250	1.8718E-05	1.9712E-05	0.217
37	37	314.4	565.9	0.165	0.165	13.887	12.236	4.9162E-05	5.1776E-05	0.608
38	38	315.0	567.0	0.688	0.606	13.877	12.228	1.8073E-04	1.7032E-04	0.519
39	39	314.8	566.6	0.876	0.772	13.860	12.230	2.3015E-04	2.4239E-04	0.122
40	40	315.8	568.4	1.054	0.929	13.864	12.216	2.7726E-04	2.9203E-04	-0.061
41	41	316.8	566.6	1.146	1.010	13.880	12.230	3.0097E-04	3.1198E-04	-0.182
42	42	315.9	568.6	1.341	1.181	13.863	12.215	3.5254E-04	3.7132E-04	-0.091
43	43	316.7	570.0	1.236	1.089	13.850	12.204	3.2537E-04	3.4272E-04	0.212
44	44	316.8	570.2	1.156	1.019	13.849	12.203	3.0439E-04	3.2063E-04	0.194
45	45	316.2	569.2	1.182	1.041	13.857	12.210	3.1093E-04	3.2750E-04	0.187
46	46	316.1	568.9	1.083	0.954	13.860	12.212	2.8401E-04	2.9999E-04	0.193
47	47	315.9	568.7	1.322	1.145	13.862	12.214	3.4756E-04	3.6608E-04	0.217
48	48	315.5	567.9	1.453	1.281	13.869	12.220	3.8198E-04	4.0232E-04	0.339
49	49	315.5	567.9	1.553	1.369	13.869	12.221	4.0823E-04	4.2997E-04	0.283
50	50	315.1	567.2	1.728	1.523	13.875	12.226	4.5406E-04	4.7822E-04	0.315
51	51	311.3	560.3	0.007	0.006	13.936	12.280	1.6241E-06	1.9207E-06	3.214
52	52	312.0	561.5	-0.005	-0.005	13.926	12.271	-1.3771E-06	-1.4501E-06	-0.528
53	53	312.1	561.7	0.018	0.016	13.924	12.269	4.7618E-06	5.0143E-06	1.532
54	54	313.8	564.8	0.079	0.087	13.897	12.245	2.5857E-05	2.7231E-05	0.691
55	55	314	560.3	0.143	0.478	13.883	12.233	1.4244E-04	1.5002E-04	0.475

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9801E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	R(S/METER)	HAM/HT	TEST NO.				
5.10	3.3802E 06	3.0909E 06	0.314	11.64	1198.7	1.2748E 06	C.3048	1.000	158				
	REL	REL	LENGTH(FT)	PT(P/SI)	TT(DEG R)	H(LBTU/LBM)	RS(FI)	HAM/HT	RUN NO.				
	1.0303E 06	3.0909E 06	3.000	174.06	2157.7	548.19	1.0000	1.000	12				
CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAR	C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	71	0.246	0.0004	0.0005	0.0005	0.0005	66	64	0.252	0.0430	0.0430	0.0492	0.0518
57	72	0.246	0.0006	0.0007	0.0007	0.0007	67	82	0.253	0.0655	0.0655	0.0748	0.0788
58	73	0.247	0.0008	0.0009	0.0009	0.0009	68	83	0.254	0.0746	0.0746	0.0852	0.0898
59	74	0.247	-0.0003	-0.0003	-0.0003	-0.0003	69	84	0.255	0.0734	0.0734	0.0839	0.0884
60	75	0.248	0.0003	0.0004	0.0004	0.0004	70	85	0.255	0.0768	0.0768	0.0877	0.0924
61	76	0.248	0.0005	0.0006	0.0006	0.0006	71	86	0.256	0.0813	0.0813	0.0929	0.0978
62	77	0.248	0.0001	0.0001	0.0001	0.0001	72	87	0.256	0.0809	0.0809	0.0924	0.0974
63	78	0.249	0.0021	0.0024	0.0025	0.0025	73	88	0.257	0.0894	0.0894	0.1023	0.1077
64	79	0.250	0.0054	0.0052	0.0055	0.0055	74	89	0.259	0.1060	0.1060	0.1213	0.1278
65	80	0.251	0.0311	0.0355	0.0373	0.0373	75	90	0.259	0.1202	0.1202	0.1374	0.1448

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ANES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.0303E 06 REL TW(DEG K) 3.0909E 06 PT(ATM) 11.84 TT(DEG K) 1198.7 RS(METER) 0.3048 HAM/HT 1.000 TEST NO. 158
 MACH 5.10 1.0303E 06 REL LENGTH(METER) 3.000 PT(PSI) 174.06 TT(DEG R) 2157.7 MI(BTU/LBM) 548.19 RS(FT) 1.0000 HAM/HT 1.000 RUN NO. 12

CHAN	T/C	TM(DEG K)	TH(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	STI0.907)	STI0.874)	TIME(SEC)
56	71	312.5	562.5	0.766	0.005	14.344	12.639	1.5775E-06	1.6604E-06	4.596
57	72	312.6	562.7	0.009	0.008	14.341	12.637	2.2276E-06	2.3447E-06	3.060
58	73	312.9	563.5	0.011	0.010	14.337	12.633	2.9037E-06	3.0285E-06	2.563
59	74	313.3	563.9	-0.004	-0.003	14.331	12.627	-9.5500E-07	-1.0032E-06	-0.367
60	75	313.9	565.0	0.005	0.004	14.321	12.619	1.2596E-06	1.3260E-06	0.995
61	76	314.5	566.2	0.007	0.006	14.311	12.610	1.8241E-06	1.9203E-06	0.503
62	77	315.1	567.2	0.001	0.001	14.302	12.602	2.8104E-07	2.9589E-07	-10.422
63	78	316.3	569.3	0.030	0.027	14.283	12.586	7.7895E-06	8.2009E-06	0.288
64	79	317.3	571.1	0.077	0.068	14.267	12.571	1.9934E-05	2.0988E-05	0.366
65	80	318.7	573.6	0.442	0.390	14.245	12.552	1.1492E-04	1.2101E-04	0.168
66	81	320.2	576.3	0.612	0.539	14.220	12.530	1.5926E-04	1.6772E-04	-0.702
67	82	321.2	578.2	0.930	0.819	14.203	12.515	2.4229E-04	2.5516E-04	-0.477
68	83	322.5	580.5	1.058	0.932	14.183	12.497	2.7610E-04	2.9079E-04	-0.086
69	84	323.3	582.0	1.041	0.917	14.170	12.486	2.7183E-04	2.8631E-04	-0.686
70	85	324.2	583.5	1.097	0.959	14.156	12.473	2.8424E-04	2.9941E-04	-0.062
71	86	325.0	585.0	1.149	1.013	14.143	12.462	3.0082E-04	3.1689E-04	0.364
72	87	325.2	585.3	1.144	1.008	14.140	12.459	2.9939E-04	3.1538E-04	-0.081
73	88	326.6	587.9	1.263	1.113	14.117	12.439	3.3116E-04	3.4868E-04	0.092
74	89	328.3	590.9	1.494	1.317	14.091	12.416	3.9265E-04	4.1318E-04	-0.811
75	90	328.1	590.6	1.693	1.492	14.093	12.418	4.4491E-04	4.6877E-04	-0.005

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9322E-01 (SLUGS/FT2-SEC)

PROBE NO. 3

PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 13

CONSTANT 207.811

RS(METER) 0.3048
RS(LFT) 1.0000

HT(JOULE/KG) 1.1765E 06
HT(BTU/LBM) 505.91

TT(DEG K) 111.23
TT(DEG R) 205.7

PI(ATM) 15.17
PI(PSI) 222.93

REL LENGTH(C) 4.802E 06
REL LENGTH(FT) 3.000

REL RE/METER 4.896E 06
REL RE/FT 1.4934E 06

RESEARCH CENTER MUFFETT FIELD CALIF.

ADMINISTRATION AMES

CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.268	0.0024	0.0027	0.0029	0.0029	11	0.272	0.2608	0.2608	0.2993	0.3154
2	2	0.269	0.0139	0.0160	0.0168	0.0168	12	0.272	0.2584	0.2584	0.2963	0.3125
3	3	0.270	0.0812	0.0931	0.0982	0.0982	13	0.272	0.2733	0.2733	0.3133	0.3305
4	4	0.270	0.1162	0.1332	0.1405	0.1405	14	0.271	0.2545	0.2545	0.2927	0.3076
5	5	0.270	0.1684	0.1930	0.2035	0.2035	15	0.270	0.2880	0.2880	0.3300	0.3481
6	6	0.271	0.2000	0.2292	0.2418	0.2418	16	0.266	0.0007	0.0007	0.0008	0.0008
7	7	0.271	0.2288	0.2622	0.2766	0.2766	17	0.266	0.0006	0.0006	0.0007	0.0008
8	8	0.272	0.2417	0.2771	0.2923	0.2923	18	0.268	0.0035	0.0035	0.0040	0.0042
9	9	0.272	0.2348	0.2592	0.2840	0.2840	19	0.269	0.0125	0.0125	0.0143	0.0151
10	10	0.272	0.2283	0.2623	0.2767	0.2767	20	0.269	0.0807	0.0807	0.0925	0.0976

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.899E 06 4.480E 06 4.480E 06 4.480E 06
 REL LENGTH (METER) 0.914 15.17 1114.3 1.175E 06
 PT (ATH) 222.93 2005.7 505.91 1.0000
 RS(METER) 0.3048 1.000
 HAW/HT 1.000
 TEST NO. 158
 RUN NO. 13

CHAN	T/C	TW(DEC KI)	TW(DEC R)	Q(W/CM2)	Q(8TU/FT2-SEC)	Q(NW/CM2)	QS(8TU/FT2-SEC)	ST(0.907)	ST(0.874)	TI4E(SEC)
1	1	313.5	564.3	0.035	0.031	14.569	12.837	7.4391E-06	7.8440E-06	0.414
2	2	315.0	567.0	0.203	0.179	14.542	12.814	4.3329E-05	4.5692E-05	0.827
3	3	316.0	568.8	1.180	1.040	14.524	12.798	2.5624E-04	2.5624E-04	0.745
4	4	316.5	569.8	1.687	1.486	14.514	12.789	3.6113E-04	3.8087E-04	0.616
5	5	316.6	569.8	2.444	2.153	14.514	12.789	5.2328E-04	5.5188E-04	0.382
6	6	317.6	571.7	2.898	2.554	14.495	12.772	6.2146E-04	6.5248E-04	0.278
7	7	317.7	571.9	3.215	2.921	14.492	12.770	7.1098E-04	7.4990E-04	0.361
8	8	318.6	573.5	3.499	3.083	14.476	12.757	7.5148E-04	7.9236E-04	0.514
9	9	318.9	574.1	3.398	2.994	14.471	12.757	7.2582E-04	7.6984E-04	0.517
10	10	318.6	573.4	3.313	2.919	14.477	12.757	7.1122E-04	7.5020E-04	0.516
11	11	318.5	573.3	3.776	3.327	14.470	12.757	8.1053E-04	8.5495E-04	0.537
12	12	318.6	573.5	3.741	3.296	14.476	12.756	8.0318E-04	8.4721E-04	0.546
13	13	318.3	573.0	3.958	3.487	14.482	12.761	8.4939E-04	8.9593E-04	0.551
14	14	317.6	571.7	3.688	3.250	14.495	12.772	7.9082E-04	8.3411E-04	0.546
15	15	316.5	569.7	4.180	3.683	14.515	12.790	8.9493E-04	9.4384E-04	0.561
16	16	311.8	561.2	0.010	0.009	14.601	12.865	2.0905E-08	2.2040E-05	0.549
17	17	311.7	561.1	0.009	0.008	14.601	12.866	1.9473E-08	2.0550E-06	0.518
18	18	315.5	564.2	0.051	0.045	14.570	12.838	1.0848E-05	1.1438E-05	0.736
19	19	314.6	566.3	0.182	0.160	14.549	12.820	3.0871E-05	4.0990E-05	0.850
20	20	315.3	567.5	1.174	1.034	14.537	12.809	2.6508E-04	2.6454E-04	0.766

FREE-STREAM DENSITY-VELOCITY PROPERTY = 3.9707E-01 (SLUGS/FT2-SEC)

PROB NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 4.5792E 06 REL LENGTH(METER) PT(ATM) TT(DEC K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.10 REL KE/FT 4.1230E 06 REL LENGTH(FT) PT(PSI) TT(DEC R) HT(BTU/LBM) RS(FI) HAM/HT RUN NO. 13
 5.10 .3743E 06 4.1230E 06 22.93 2106.7 533.94 1.0000 1.0000

CHAN	T/C	TM(DEC K)	TM(DEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(G.907)	ST(G.874)	TIME(SEC)
21	61	316.7	570.1	0.575	0.595	15.604	13.749	1.3916E-04	1.4659E-04	0.459
22	62	316.4	569.6	0.120	0.105	15.609	13.754	2.4611E-05	2.5925E-05	0.280
23	63	314.7	566.4	0.037	0.033	15.641	13.782	7.6191E-06	8.0250E-06	0.101
24	64	314.0	565.3	0.051	0.045	15.653	13.792	1.0506E-05	1.1065E-05	0.375
25	26	-0.0	-0.0	*****	*****	*****	*****	1.6777E-02	1.7410E-02	0.000
26	27	-0.0	-0.0	*****	*****	*****	*****	1.6777E-02	1.7410E-02	0.000
27	27	-0.0	-0.0	*****	*****	*****	*****	1.6777E-02	1.7410E-02	0.000
28	28	-0.0	-0.0	*****	*****	*****	*****	1.6777E-02	1.7410E-02	0.000
29	29	314.0	565.3	0.123	0.109	15.653	13.792	2.5284E-05	2.6630E-05	0.000
30	30	-0.0	-0.0	*****	*****	*****	*****	4.7215E-03	1.7410E-02	0.000
31	31	312.7	562.8	0.318	0.016	15.678	13.814	3.7837E-06	3.9847E-06	1.030
32	32	313.4	564.2	0.049	0.043	15.664	13.802	9.5955E-06	1.0527E-05	0.636
33	33	314.0	565.3	0.110	0.097	15.653	13.792	2.2510E-05	2.3709E-05	0.765
34	34	315.0	566.9	0.204	0.180	15.636	13.777	4.1925E-05	4.4159E-05	0.672
35	35	315.4	567.6	0.195	0.172	15.628	13.771	4.0083E-05	4.2221E-05	0.519
36	36	316.2	569.1	0.236	0.208	15.614	13.758	4.8484E-05	5.1372E-05	0.506
37	37	317.4	571.3	0.448	0.295	15.592	13.739	9.2341E-05	9.7278E-05	0.721
38	38	318.3	572.9	1.806	1.591	15.575	13.724	3.7283E-04	3.9279E-04	0.680
39	39	317.8	572.0	3.605	2.296	15.585	13.732	5.3745E-04	5.6619E-04	0.596
40	40	319.2	574.6	3.082	2.716	15.558	13.709	6.3693E-04	6.7106E-04	0.219
41	41	317.5	571.5	3.453	3.042	15.590	13.737	7.1202E-04	7.5009E-04	0.141
42	42	319.0	574.2	3.729	3.286	15.563	13.713	7.7046E-04	8.1174E-04	0.240
43	43	319.8	575.7	3.342	2.681	15.547	13.699	6.2920E-04	6.6295E-04	0.377
44	44	319.9	575.8	2.860	2.520	15.546	13.698	5.9151E-04	6.2324E-04	0.360
45	45	319.1	574.3	2.990	2.635	15.561	13.712	6.1787E-04	6.5097E-04	0.364
46	46	318.7	573.6	2.808	2.474	15.569	13.718	5.7995E-04	6.1101E-04	0.373
47	47	318.5	573.3	3.570	3.145	15.572	13.721	7.3704E-04	7.7650E-04	0.405
48	48	-0.0	-0.0	*****	*****	*****	*****	1.6777E-02	1.7410E-02	0.000
49	49	317.8	572.1	3.853	3.295	15.583	13.731	7.9494E-04	8.3746E-04	0.421
50	50	317.1	570.9	4.104	3.516	15.596	13.742	8.4587E-04	8.9108E-04	0.431
51	65	312.4	562.4	0.705	0.004	15.682	13.818	1.0452E-06	1.1008E-06	3.684
52	66	313.5	566.4	0.701	-0.001	15.662	13.800	-2.3522E-07	-2.4773E-07	2.278
53	67	313.7	564.7	0.722	0.020	15.659	13.797	4.5781E-06	4.8217E-06	-0.048
54	67	315.9	568.6	0.222	0.196	15.619	13.763	4.5768E-05	4.8210E-05	0.660
55	69	316.9	570.5	1.316	1.160	15.600	13.746	2.7121E-04	2.8570E-04	0.587

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.8256E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***												
MACH	RE/METER	REL LENGTH	REL LENGTH	PT(ATM)	PT(PSI)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H R (0.907)	M/HS(0.874)
5.10	4.3291E 06	3.9585E 06	0.914	15.17	222.93	66	81	0.255	0.1155	0.1155	0.1320	0.1390
5.10	3.3195E 06	3.9585E 06	3.300	0.914	222.93	67	82	0.256	0.1688	0.1688	0.1930	0.2033
						68	83	0.257	0.1833	0.1833	0.2095	0.2207
						69	84	0.258	0.1762	0.1762	0.2015	0.2123
						70	85	0.259	0.1795	0.1795	0.2053	0.2163
						71	86	0.260	0.1839	0.1839	0.2104	0.2217
						72	87	0.261	0.1992	0.1992	0.2279	0.2402
						73	88	0.262	0.1955	0.1955	0.2237	0.2357
						74	89	0.264	0.2301	0.2301	0.2634	0.2777
						75	90	0.263	0.2697	0.2697	0.3087	0.3253

TEST NO. 158
RUN NO. 13

RSTIMETER) 0.3046
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

TT(DEG K) 1198.7
HAM/HT 1.000

TI(DEG R) 2157.7
HAM/HT 1.000

MI(LBU/LBM) 548.19
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

TT(DEG K) 1198.7
HAM/HT 1.000

TI(DEG R) 2157.7
HAM/HT 1.000

MI(LBU/LBM) 548.19
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

TT(DEG K) 1198.7
HAM/HT 1.000

TI(DEG R) 2157.7
HAM/HT 1.000

MI(LBU/LBM) 548.19
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

TT(DEG K) 1198.7
HAM/HT 1.000

TI(DEG R) 2157.7
HAM/HT 1.000

MI(LBU/LBM) 548.19
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

TT(DEG K) 1198.7
HAM/HT 1.000

TI(DEG R) 2157.7
HAM/HT 1.000

MI(LBU/LBM) 548.19
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

TT(DEG K) 1198.7
HAM/HT 1.000

TI(DEG R) 2157.7
HAM/HT 1.000

MI(LBU/LBM) 548.19
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

TT(DEG K) 1198.7
HAM/HT 1.000

TI(DEG R) 2157.7
HAM/HT 1.000

MI(LBU/LBM) 548.19
HAM/HT 1.000

RS(FI) 1.000
HAM/HT 1.000

HT(JOULE/KG) 1.2748E 06
HAM/HT 1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.3291E 06 3.9585E 06 0.914 15.17 1.598.7 1.2748E 06 0.3C48 1.000 158
 MACH 5.10 1.3195E 06 3.9585E 06 3.700 222.93 2157.7 348.19 1.0000 1.000 13
 REL LENGTH(METER) P(TIATM) T(TIDEG K) H(TIUCULE/AG) R(S(METER) HAM/HT
 REL LENGTH(FT) P(TIPSI) T(TIDEG R) H(TIUCULE/LBM) R(S(FT) HAM/HT

CHAN	T/C	TIME(SEC)	US(BTU/FT2-SEC)	US(W/CM2)	US(BTU/FT2-SEC)	SI(U.907)	SI(U.874)	TIME(SEC)
56	71	313.9	565.0	16.207	14.291	-1.6536E-06	-1.7406E-06	-1.215
57	72	314.0	565.2	16.206	14.279	-3.5482E-06	-3.2007E-06	0.201
58	73	314.5	566.1	16.196	14.271	-1.5959E-06	-1.1154E-06	-1.061
59	74	315.1	567.2	16.185	14.261	-1.0598E-06	-1.1157E-06	0.803
60	75	316.0	568.9	16.168	14.246	6.489CF-07	6.8316E-07	-1.347
61	76	317.1	570.7	16.150	14.230	3.2756E-06	3.4488E-06	-0.021
62	77	317.8	572.0	16.136	14.218	1.7687E-06	1.8623E-06	-2.345
63	78	319.2	574.6	16.111	14.196	1.5621E-05	1.1183E-05	0.030
64	79	320.6	577.1	16.085	14.173	4.2053E-05	4.4797E-05	0.609
65	80	322.2	579.7	16.056	14.148	2.5869E-04	2.7116E-04	0.340
66	81	323.8	582.9	16.027	14.122	3.7782E-04	3.9797E-04	-0.346
67	82	325.1	585.3	16.003	14.101	5.5224E-04	5.8174E-04	-0.215
68	83	326.8	588.2	15.973	14.075	5.9958E-04	6.3167E-04	0.118
69	84	327.9	590.2	15.953	14.057	5.7684E-04	6.0754E-04	0.103
70	85	329.3	592.7	15.928	14.034	5.8734E-04	6.1888E-04	0.100
71	86	330.5	594.9	15.906	14.015	5.0182E-04	6.3429E-04	0.490
72	87	330.8	595.5	15.900	14.010	6.5202E-04	6.8710E-04	0.143
73	88	333.1	599.5	15.859	13.974	6.3977E-04	6.7429E-04	0.143
74	89	335.1	603.2	15.822	13.941	7.5342E-04	7.9418E-04	0.160
75	90	334.3	601.7	15.837	13.954	8.8282E-04	8.3053E-04	0.216

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7554E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

CT

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.7433E 00 1.5945E 06 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) HAM/HT TEST NO. 188
 MACH 5.10 5.3151E 05 1.5945E 06 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) HAM/HT RUN NO. 14
 C.314 5.49 1.089.1 1.1474E 06 C.3038 1.000
 76.35 1967.4 493.40 1.0000 1.0000

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(M/CM2)	Q(BTU/FT2-SEC)	Q(SI/CM2)	QS(BTU/FT2-S-C)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	313.5	563.9	0.012	0.011	8.242	7.5910E-06	8.0509E-06	8.0509E-06	0.896
2	2	313.7	564.6	0.036	0.032	8.237	2.2790E-05	2.4044E-05	2.4044E-05	0.801
3	3	314.0	565.2	0.166	0.147	8.234	1.3560E-04	1.4174E-04	1.4174E-04	0.513
4	4	314.2	565.5	0.211	0.186	8.232	1.3423E-04	1.4159E-04	1.4159E-04	0.291
5	5	314.1	565.4	0.255	0.224	8.232	1.6167E-04	1.7058E-04	1.7058E-04	-7.235
6	6	314.6	566.3	0.301	0.265	8.227	1.4109E-04	2.0163E-04	2.0163E-04	-0.348
7	7	314.7	66.5	0.361	0.318	8.226	2.2925E-04	2.4189E-04	2.4189E-04	-0.272
8	8	315.2	567.4	0.462	0.407	8.221	2.9351E-04	3.0971E-04	3.0971E-04	0.064
9	9	315.4	567.7	0.451	0.397	8.219	7.347	3.0370E-04	3.0370E-04	0.053
10	10	315.4	567.8	0.438	0.386	8.219	7.24	2.9378E-04	2.9378E-04	0.064
11	11	315.4	567.8	0.459	0.405	8.218	7.24	3.0823E-04	3.0823E-04	0.056
12	12	315.5	567.8	0.474	0.418	8.218	7.24	3.1817E-04	3.1817E-04	0.081
13	13	315.5	567.9	0.447	0.394	8.218	7.24	2.9996E-04	2.9996E-04	0.039
14	14	315.2	567.3	0.425	0.374	8.221	7.244	2.8509E-04	2.8509E-04	0.040
15	15	314.9	568.9	0.455	0.401	8.224	7.244	3.0523E-04	3.0523E-04	-0.004
16	16	312.7	562.8	0.003	0.003	8.248	7.267	1.8700E-06	1.9728E-06	0.819
17	17	312.8	563.0	-0.006	-0.005	8.247	7.266	-3.6915E-06	-3.6915E-06	1.831
18	18	313.3	564.0	0.004	0.003	8.241	7.261	2.3645E-06	2.4313E-06	0.034
19	19	313.7	564.7	0.027	0.024	8.236	7.257	1.7020E-05	1.7957E-05	0.766
20	20	314.0	565.2	0.156	0.137	8.234	7.255	9.8859E-05	1.0430E-04	0.551

FREC-STREAM DENSITY-VELOCITY PRODUCT = 1.3832E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.					
5.10	1.4679E 06	5.19	1143.9	1.2108E 06	C.3048	1.000	158					
MACH	REL LENGTH(FT)	PI(PST)	TI(DEG R)	HT(TTU/LBM)	RS(LF)	HAW/HT	RUN NO.					
5.10	1.4579E 06	76.35	2059.0	520.69	1.0000	1.000	14					
CHAN	T/C	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/MS(1.000)	H/MS(C.907)	H/MS(0.874)
41	61	0.262	0.0169	0.0192	0.0203	39	39	0.262	0.0364	0.0364	0.0416	0.0439
42	62	0.262	0.0016	0.0018	0.0019	40	40	0.262	0.0425	0.0425	0.0486	0.0512
43	63	0.261	0.0006	0.0007	0.0008	41	41	0.262	0.0479	0.0479	0.0548	0.0578
44	64	0.261	0.0026	0.0030	0.0031	42	42	0.262	0.0547	0.0547	0.0626	0.0660
45	26	0.261	0.0000	0.0000	0.0000	43	43	0.263	0.0584	0.0584	0.0669	0.0705
46	27	0.261	0.0000	0.0000	0.0000	44	44	0.263	0.0556	0.0556	0.0636	0.0670
47	28	0.261	0.0000	0.0000	0.0000	45	45	0.263	0.0550	0.0550	0.0630	0.0664
48	29	0.261	0.0000	0.0000	0.0000	46	46	0.263	0.0488	0.0488	0.0558	0.0588
49	30	0.261	0.0000	0.0000	0.0000	47	47	0.263	0.0558	0.0558	0.0639	0.0673
50	31	0.261	0.0003	0.0003	0.0003	48	48	0.263	0.0525	0.0525	0.0601	0.0633
51	32	0.261	0.0005	0.0006	0.0006	49	49	0.263	0.0533	0.0533	0.0610	0.0643
52	33	0.261	0.0002	0.0002	0.0002	50	50	0.261	0.0004	0.0004	0.0005	0.0005
53	34	0.261	0.0026	0.0029	0.0031	51	51	0.261	0.0001	0.0001	0.0001	0.0001
54	35	0.261	0.0003	0.0004	0.0004	52	52	0.261	0.0000	0.0000	0.0000	0.0000
55	36	0.261	0.0013	0.0015	0.0016	53	53	0.262	0.0036	0.0036	0.0042	0.0044
56	37	0.262	0.0063	0.0072	0.0076	54	54	0.262	0.0198	0.0198	0.0227	0.0239
57	38	0.262	0.0063	0.0072	0.0076	55	55	0.262	0.0198	0.0198	0.0227	0.0239
58	38	0.262	0.0229	0.0262	0.0276	56	56	0.262	0.0198	0.0198	0.0227	0.0239

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.10 REL 1.4679E 06 PT(ATM) 5.19 TT(DEG K) 1143.9 HT(JOULE/KG) 1.21C8E 06 HAM/HT 1.000 TEST NO. 158
 MACH 5.10 REL 1.4679E 06 PT(PSI) 76.35 TT(DEG R) 2059.0 HT(TBU/LBM) 525.59 HAM/HT 1.000 RUN NO. 14
 MACH 5.10 REL 1.4679E 06 PT(P) 0.000 TT(DEG C) 3747.0 HT(TBU/LBM) 525.59 HAM/HT 1.000

CHAN	T/C	TIME(SEC)	REL	Q(W/CM2)	Q(FTU/FT2-SEC)	Q(LIN/CM2)	Q(S(TBU/FT2-SEC)	Q(S(TBU/FT2-SEC)	Q(S(TBU/FT2-SEC)	Q(S(TBU/FT2-SEC)	TIME(SEC)
21	01	316.0	568.9	0.149	0.131	8.837	7.787	4.5937E-05	3.5842E-05	0.548	
22	02	315.7	568.3	0.14	0.12	8.841	7.790	8.319E-04	8.2979E-06	0.485	
23	03	315.2	567.4	0.106	0.005	8.846	7.794	3.3714E-06	1.5530E-06	1.015	
24	04	315.1	567.2	0.023	0.070	8.847	7.795	1.3443E-05	1.4694E-05	0.441	
25	05	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
26	06	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
27	07	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
28	08	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
29	09	314.6	566.4	-0.000	-0.000	8.852	7.800	-1.5478E-07	-1.2623E-07	9.092	
30	10	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
31	11	314.3	565.8	0.002	0.002	8.855	7.803	1.5046E-06	1.5855E-06	0.915	
32	12	314.4	565.9	-0.005	-0.004	8.854	7.802	-4.8346E-06	-1.9872E-06	1.151	
33	13	314.5	566.0	-0.002	-0.001	8.854	7.803	-9.8121E-07	-1.0340E-06	2.469	
34	14	314.8	566.6	0.023	0.020	8.851	7.799	1.3843E-05	1.4588E-05	0.749	
35	15	314.8	566.7	0.003	0.003	8.850	7.798	1.8860E-06	1.9876E-06	-0.205	
36	16	315.1	567.2	0.011	0.010	8.847	7.796	6.9689E-06	7.3443E-06	0.506	
37	17	315.4	567.8	0.056	0.043	8.843	7.792	3.4207E-05	3.6054E-05	0.751	
38	18	315.7	568.3	0.102	0.178	8.841	7.790	1.2378E-04	1.3045E-04	0.468	
39	19	315.6	568.2	0.122	0.283	8.841	7.790	1.9666E-04	2.0726E-04	0.103	
40	20	315.1	569.1	0.175	0.331	8.836	7.786	2.2966E-04	2.4205E-04	0.012	
41	21	315.9	568.6	0.424	0.472	8.839	7.788	2.5912E-04	2.7310E-04	-0.217	
42	22	316.4	569.5	0.483	0.426	8.833	7.783	2.9582E-04	3.1179E-04	-0.166	
43	23	316.9	570.4	0.516	0.454	8.828	7.779	3.1585E-04	3.3290E-04	0.009	
44	24	317.0	570.6	0.490	0.432	8.827	7.778	3.0041E-04	3.1664E-04	0.078	
45	25	316.8	570.2	0.486	0.428	8.829	7.780	2.9751E-04	3.1357E-04	0.048	
46	26	316.9	570.4	0.430	0.379	8.828	7.779	2.6361E-04	2.7785E-04	0.048	
47	27	316.8	570.2	0.493	0.454	8.829	7.780	3.0186E-04	3.1815E-04	0.074	
48	28	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
49	29	316.7	570.0	0.463	0.408	8.831	7.781	2.8376E-04	2.9908E-04	0.013	
50	30	316.6	569.9	0.471	0.415	8.831	7.782	2.8443E-04	3.0399E-04	0.076	
51	31	315.0	567.1	-0.004	-0.003	8.848	7.796	-2.2186E-06	-2.3360E-06	0.768	
52	32	315.2	567.3	0.001	0.001	8.846	7.795	3.4920E-07	3.6801E-07	4.315	
53	33	315.2	567.3	0.000	0.000	8.846	7.795	5.9408E-08	1.0476E-07	35.401	
54	34	316.0	568.8	0.032	0.028	8.837	7.787	1.9642E-05	2.0701E-05	0.911	
55	35	316.4	569.6	0.175	0.154	8.833	7.783	1.0710E-04	1.1288E-04	0.457	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3333E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	REL LENGTH(METER)	PI(ATM)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	MAM/HT	TEST NO.
5.10	1.4223E 06	0.519	1165.4	1.2358E 06	0.3248	1.000	14
MACH	REL LENGTH(FT)	PI(P/SI)	TT(DEC R)	HT(BTU/LBM)	RS(FT)	MAM/HT	RUN NO.
5.10	4.741E 05	1.4223E 06	2097.7	531.44	1.0000	1.000	

CHAN	T/C	Q/QS	M/HS(1.000)	M/HS(0.907)	M/HS(1.000)	M/HS(0.907)	M/HS(1.000)	M/HS(0.874)
56	71	0.0003	-0.0003	-0.0004	0.0004	0.0004	0.0281	0.0321
57	72	0.0004	-0.0004	-0.0005	0.0005	0.0005	0.0403	0.0461
58	73	0.0000	-0.0000	-0.0000	0.0000	0.0000	0.0495	0.0567
59	74	0.0016	-0.0016	-0.0019	0.0019	0.0019	0.0514	0.0588
60	75	0.0001	-0.0001	-0.0001	0.0001	0.0001	0.0532	0.0609
61	76	0.0005	-0.0005	-0.0007	0.0007	0.0007	0.0533	0.0609
62	77	0.0016	-0.0016	-0.0019	0.0019	0.0019	0.0468	0.0564
63	78	0.0001	-0.0001	-0.0001	0.0001	0.0001	0.0489	0.0559
64	79	0.0038	0.0038	0.0044	0.0046	0.0046	0.0542	0.0654
65	80	0.0191	0.0191	0.0218	0.0230	0.0230	0.0516	0.0622

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.5555E 05 1.4222E 06 0.914 0.919 1167.4 1.2358E 06 0.3048 1.0000 TEST NO. 158
 MACH 5.10 4.7410E 05 1.4222E 06 3.130 76.35 2097.7 531.44 1.0011 1.0000 RUN NO. 14

CHAM	T/C	TM(DEC K)	REL LENGTH(METER)	PT(ATH)	TT(DEC R)	MT(JOULE/KG)	PS(METER)	MS(FT)	HA(M/MT)	ST(10.074)	TIME(SEC)
54	71	316.9	570.5	-0.303	9.072	7.994	-1.7742E-06	-1.7742E-06	-1.8762E-03	-0.778	
57	72	316.9	570.5	-0.304	9.073	7.994	-1.7742E-06	-1.7742E-06	-2.2437E-04	-0.179	
58	73	317.0	570.6	-0.300	9.072	7.994	-1.2510E-07	-1.2510E-07	-1.3401E-07	-26.531	
59	74	317.1	570.9	-0.315	9.070	7.992	-8.8436E-08	-8.8436E-08	-9.3171E-06	1.187	
60	5	317.3	571.2	-0.301	9.068	7.990	-6.2137E-07	-6.2137E-07	-6.4423E-07	-0.999	
61	4	317.5	571.6	-0.305	9.044	7.988	-2.4585E-06	-2.4585E-06	-2.1165E-06	0.792	
62	7	317.8	572.3	-0.313	9.063	7.986	-8.4127E-06	-8.4127E-06	-9.2850E-06	1.341	
63	18	318.2	572.8	0.301	9.059	7.982	4.5866E-07	4.5866E-07	9.8725E-07	-0.999	
64	75	318.5	573.3	0.331	9.056	7.979	4.1678E-05	4.1678E-05	2.2209E-05	0.821	
65	80	319.1	574.4	-0.152	9.050	7.974	1.7459E-04	1.7459E-04	1.1021E-04	0.370	
66	81	319.8	575.6	0.224	9.042	7.968	1.5390E-04	1.5390E-04	1.6217E-04	-0.393	
67	82	320.3	576.8	0.364	9.036	7.962	2.2698E-04	2.2698E-04	2.3287E-04	-0.456	
68	83	321.1	578.0	0.447	9.028	7.955	2.7134E-04	2.7134E-04	2.8794E-04	-0.104	
69	84	321.5	578.7	0.464	9.024	7.952	2.8172E-04	2.8172E-04	2.8489E-04	-0.033	
70	85	321.8	579.3	0.482	9.021	7.949	4.9170E-04	4.9170E-04	3.0742E-04	0.014	
71	86	321.9	579.5	0.480	9.019	7.947	2.9184E-04	2.9184E-04	3.0757E-04	0.052	
72	87	322.2	580.3	0.422	9.016	7.945	4.5490E-04	4.5490E-04	2.7633E-04	-0.120	
73	88	323.1	581.7	0.440	9.007	7.936	2.8773E-04	2.8773E-04	2.8219E-04	0.025	
74	89	323.7	582.7	0.488	9.000	7.930	2.9708E-04	2.9708E-04	3.1319E-04	0.031	
75	90	323.9	583.0	0.464	8.999	7.929	2.8259E-04	2.8259E-04	2.9786E-04	-0.027	

FREL-STREAM DENSITY-VELOCITY PRODUCT = 1.3149E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER ROFFETT FIELD CALIF. PRELIMINARY DATA
 MACH 5.10 2.6741E 06 2.4451E 06 0.314 8.21 1109.2 1.176E 06 3.304 1.000 TEST NO. 150
 MACH 5.10 8.1507E 05 2.4451E 05 3.304 1.000 1.000 1.000 RUN NO. 14
 REL LENGTH(MFT) REL LENGTH(MFT) PT(PSI) PT(PSI) MFT(BU/LEM) MFT(BU/LEM) MFT(BU/LEM) MFT(BU/LEM)

CHAN	T/C	T(DEC K)	T(DEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	G(SIM/CM2)	Q(SIBTU/FT2-SEC)	ST(0.907)	ST(0.875)	TIME(SEC)
1	1	302.2	543.9	0.007	0.006	10.799	9.516	2.4303E-06	2.8141E-06	9.678
2	2	303.0	545.3	0.053	0.046	10.789	9.507	2.5603E-05	2.1668E-05	0.854
3	3	303.2	546.4	0.229	0.220	10.781	9.500	1.1005E-04	1.0627E-04	0.599
4	4	308.6	546.6	0.305	0.289	10.780	9.499	1.5051E-04	1.2545E-04	0.304
5	5	304.1	547.3	0.369	0.376	10.775	9.494	1.4417E-04	1.5193E-04	-0.301
6	6	314.5	548.1	0.395	0.349	10.769	9.489	1.5441E-04	1.6272E-04	-0.575
7	7	314.5	548.6	0.486	0.428	10.765	9.486	1.8591E-04	2.0014E-04	-0.456
8	8	305.4	549.0	0.474	0.594	10.756	9.478	2.6353E-04	2.7774E-04	0.030
9	9	305.8	550.4	0.476	0.595	10.752	9.474	2.6268E-04	2.7852E-04	0.048
10	10	375.7	550.3	0.590	0.564	10.752	9.474	2.5017E-04	2.6366E-04	0.016
11	11	351.7	550.3	0.703	0.620	10.752	9.474	2.7503E-04	2.8993E-04	0.034
12	12	305.8	550.4	0.743	0.655	10.751	9.473	2.9073E-04	3.0642E-04	0.091
13	13	305.2	550.4	0.739	0.655	10.752	9.473	2.8405E-04	3.0665E-04	0.071
14	14	305.2	549.3	0.758	0.668	10.752	9.474	2.9642E-04	3.1240E-04	0.143
15	15	304.5	548.1	0.911	0.803	10.749	9.469	3.5548E-04	3.7481E-04	0.201
16	16	301.9	541.9	0.901	0.803	10.819	9.529	2.3215E-04	2.4459E-04	2.149
17	17	300.9	541.6	0.901	0.801	10.817	9.531	3.2073E-07	3.3791E-07	0.596
18	18	302.0	543.6	0.106	0.006	10.802	9.518	2.4779E-06	2.6109E-06	0.644
19	19	302.8	545.1	0.039	0.034	10.791	9.509	1.5192E-05	1.6008E-05	0.322
20	20	303.2	545.7	0.040	0.012	10.784	9.504	9.3625E-05	9.8657E-05	0.603

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1574E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 7.6924E 05 2.3077E 06 3.000 150.73 2066.2 522.66
 RE/METER 4 0.0149 0.0170 0.0179
 LENGTH(METER) PTIATH 1167.9 1.2134E 06 0.3048
 RE/FT 2.3077E 06 3.000 150.73 2066.2 522.66
 LENGTH(FT) PTI(PSI) TT(DEC R) MILIBTU(LBM) MAM/HT 1.000
 RE/METER 4 0.0149 0.0170 0.0179
 LENGTH(METER) PTIATH 1167.9 1.2134E 06 0.3048
 RE/FT 2.3077E 06 3.000 150.73 2066.2 522.66
 LENGTH(FT) PTI(PSI) TT(DEC R) MILIBTU(LBM) MAM/HT 1.000

CHAN	T/C	MM/HT	G/US	4/MS(1.000)	H/MS(0.907)	M/MS(0.874)	R/GS	MM/HT	R/GS	H/MS(1.000)	H/MS(0.907)	M/MS(0.874)
30	30	0.250	-0.0000	-0.0000	-0.0000	-0.0000	0.253	0.0602	0.0602	0.0602	0.0602	0.0602
31	31	0.249	0.0025	0.0005	0.0006	0.0006	0.253	0.0624	0.0624	0.0624	0.0624	0.0624
32	32	0.249	0.0070	0.0000	0.0001	0.0001	0.252	0.0678	0.0678	0.0678	0.0678	0.0678
33	33	0.250	0.0000	0.0000	0.0001	0.0001	0.249	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001
34	34	0.250	0.0018	0.0010	0.0020	0.0021	0.250	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
35	35	0.251	-0.0002	-0.0002	-0.0002	-0.0002	0.250	0.0004	0.0004	0.0004	0.0004	0.0004
36	36	0.251	0.0024	0.0024	0.0027	0.0029	0.251	0.0026	0.0026	0.0026	0.0026	0.0026
37	37	0.252	0.0075	0.0075	0.0085	0.0090	0.252	0.0177	0.0177	0.0177	0.0177	0.0177
38	38	0.252	0.0271	0.0271	0.0309	0.0323	0.252	0.0177	0.0177	0.0177	0.0177	0.0177

TEST NO. 158
 RUN NO. 16

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center Moffett Field Calif. *** PRELIMINARY DATA ***
 MACH 5.10 7.6924E 05 2.3077E 06 3.00
 REAMETER REL LENGTH (FT) 2.3077E 06 3.00
 TEST NO. 158
 RUN NO. 16

CHAN	TYPE	TIME (SEC)	TIME (M)	TIME (CM)	W (M/CM)	W (IN/CM)	W (BTU/FTZ-SEC)	Q (IN/CM)	Q (BTU/FTZ-SEC)	US (BTU/FTZ-SEC)	SI (10-907)	SI (10-874)	TIME (SEC)
21	61	304.6	548.3	0.169	0.149	11.322	9.976	6.4118E-05	6.7510E-05	0.430	0.430	6.7510E-05	
22	62	304.0	547.2	0.024	0.022	11.330	9.983	9.3382E-06	9.8014E-06	0.737	0.737	9.8014E-06	
23	63	303.0	545.4	0.020	0.017	11.344	9.995	7.5235E-06	7.8479E-06	0.875	0.875	7.8479E-06	
24	64	302.8	545.0	0.024	0.021	11.347	9.998	9.2125E-06	9.5498E-06	0.266	0.266	9.5498E-06	
25	-0.0	-0.0	-0.0
26	-0.0	-0.0	-0.0
27	-0.0	-0.0	-0.0
28	-0.0	-0.0	-0.0
29	3 2.5	303.2	544.5	-0.000	-0.000	11.350	10.001	1.8544E-08	1.9522E-08	76.565	76.565	1.9522E-08	
30	-0.0	-0.0	-0.0
31	301.6	542.9	0.066	0.065	11.362	10.012	9.977	2.1946E-06	2.3126E-06	1.671	1.671	2.3126E-06	
32	301.9	543.5	0.101	0.099	11.358	10.008	9.970	1.4263E-07	2.0281E-07	4.100	4.100	2.0281E-07	
33	302.4	544.3	0.101	0.100	11.352	10.003	9.973	2.5522E-07	2.1639E-07	0.712	0.712	2.1639E-07	
34	302.8	545.1	0.120	0.118	11.346	9.997	9.971	7.6088E-06	8.0093E-06	0.579	0.579	8.0093E-06	
35	303.2	545.7	-0.002	-0.002	11.341	9.993	9.971	8.4369E-07	8.9045E-07	4.710	4.710	8.9045E-07	
36	303.7	546.7	0.027	0.024	11.334	9.987	9.977	1.0452E-05	1.0795E-05	0.800	0.800	1.0795E-05	
37	304.5	548.1	0.085	0.075	11.323	9.977	9.977	3.2401E-05	3.3909E-05	0.712	0.712	3.3909E-05	
38	305.1	549.3	0.306	0.270	11.315	9.970	9.970	1.1652E-04	1.2270E-04	0.476	0.476	1.2270E-04	
39	304.9	548.8	0.441	0.369	11.318	9.973	9.973	1.6777E-04	1.7667E-04	0.140	0.140	1.7667E-04	
40	305.6	550.0	0.521	0.459	11.309	9.985	9.985	1.9838E-04	2.0891E-04	-0.015	-0.015	2.0891E-04	
41	305.1	549.1	0.567	0.500	11.316	9.971	9.971	2.1589E-04	2.2735E-04	-0.319	-0.319	2.2735E-04	
42	306.1	550.9	0.667	0.588	11.302	9.959	9.959	2.5416E-04	2.6767E-04	-0.200	-0.200	2.6767E-04	
43	306.9	552.4	0.592	0.610	11.292	9.950	9.950	2.5391E-04	2.7795E-04	0.035	0.035	2.7795E-04	
44	307.0	552.6	0.658	0.580	11.290	9.946	9.946	2.5684E-04	2.8418E-04	0.019	0.019	2.8418E-04	
45	305.2	549.3	0.668	0.589	11.315	9.970	9.970	2.5423E-04	2.6772E-04	0.110	0.110	2.6772E-04	
46	306.1	551.4	0.593	0.522	11.299	9.954	9.954	2.2591E-04	2.3794E-04	0.093	0.093	2.3794E-04	
47	306.3	551.3	0.598	0.522	11.300	9.957	9.957	2.8208E-04	2.7601E-04	0.034	0.034	2.7601E-04	
48	305.8	550.5	0.680	0.599	11.306	9.962	9.962	2.5058E-04	2.7281E-04	0.031	0.031	2.7281E-04	
49	305.7	550.3	0.706	0.622	11.307	9.963	9.963	2.6876E-04	2.8304E-04	0.014	0.014	2.8304E-04	
50	305.3	549.5	0.767	0.676	11.313	9.968	9.968	2.9203E-04	3.0753E-04	0.122	0.122	3.0753E-04	
51	301.9	543.4	-0.001	-0.001	11.358	10.008	10.008	-3.8279E-07	-4.0722E-07	-4.425	-4.425	-4.0722E-07	
52	302.4	544.3	-0.003	-0.002	11.352	10.002	10.002	-1.0362E-06	-1.1120E-06	-1.118	-1.118	-1.1120E-06	
53	302.5	544.5	0.204	0.204	11.350	10.001	10.001	1.5837E-05	1.6675E-05	5.078	5.078	1.6675E-05	
54	304.0	547.3	0.330	0.326	11.330	9.983	9.983	1.7372E-05	1.8159E-05	0.812	0.812	1.8159E-05	
55	304.8	548.6	0.300	0.276	11.320	9.974	9.974	7.4163E-05	8.0202E-05	0.268	0.268	8.0202E-05	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1029E-1 (SLUGS/FTZ-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH	K/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JOULE/KG)	PS(METER)	M/W/MT	TEST NO.	1958	M/W/MT	PS(METER)	M/W/MT	TEST NO.	1958
5.10	44262E 06	2.2192E 06	0.914	3.21	1174.5	1.2466E 06	0.3348	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
MACH	PC/FT	REL	LENGTH(FT)	PT(PST)	TT(DEC R)	HT(BTU/LBM)	PS(FT)	M/W/MT	TEST NO.	1958	M/W/MT	PS(FT)	M/W/MT	TEST NO.	1958
5.10	7.3973E 06	2.2192E 06	3.000	23.73	2114.4	536.08	1.0000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
CHAN	T/C	C/Q5	H/MS(1.000)	H/PS(1.907)	H/MS(1.874)	T/C	H/MT	G/SS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	G/SS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
56	71	-0.0016	-0.0016	-0.0018	-0.0019	66	81	0.249	0.0285	0.0325	0.0343	0.0285	0.0325	0.0343	0.0343
57	72	-0.0001	-0.0001	-0.0001	-0.0001	67	82	0.250	0.0420	0.0480	0.0505	0.0420	0.0480	0.0505	0.0505
58	73	-0.0021	-0.0021	-0.0024	-0.0026	68	83	0.249	0.0519	0.0592	0.0623	0.0519	0.0592	0.0623	0.0623
59	74	-0.0014	-0.0014	-0.0016	-0.0017	69	84	0.242	0.0535	0.0611	0.0643	0.0535	0.0611	0.0643	0.0643
60	75	-0.0012	-0.0012	-0.0014	-0.0015	70	85	0.243	0.0548	0.0626	0.0659	0.0548	0.0626	0.0659	0.0659
61	76	-0.0011	-0.0011	-0.0012	-0.0013	71	86	0.243	0.0546	0.0623	0.0656	0.0546	0.0623	0.0656	0.0656
62	77	-0.0011	-0.0011	-0.0011	-0.0011	72	87	0.243	0.0527	0.0602	0.0634	0.0527	0.0602	0.0634	0.0634
63	78	-0.0002	-0.0002	-0.0002	-0.0002	73	88	0.254	0.0572	0.0655	0.0688	0.0572	0.0655	0.0688	0.0688
64	79	0.0037	0.0037	0.0042	0.0044	74	89	0.255	0.0593	0.0677	0.0713	0.0593	0.0677	0.0713	0.0713
65	80	0.0182	0.0182	0.0208	0.0219	75	90	0.255	0.0610	0.0697	0.0735	0.0610	0.0697	0.0735	0.0735

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 Tm(DEG K) 302.7 R/L LENGTH(METER) 0.214 PT(ATM) 8.21 TT(DEG K) 1174.6 HT(JOULE/KG) 1.2466E 06 HAM/HT 1.000
 MACH 5.10 Tm(DEG K) 302.7 R/L LENGTH(FT) 3.00 PT(PSI) 120.73 TT(DEG K) 2114.4 HT(LB/FT) 536.08 HAM/HT 1.000

CHAN	T/C	Tm(DEG K)	Tm(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(L-907)	ST(C-874)	TIME(SEC)
56	71	302.7	544.9	-0.718	-0.016	11.752	10.337	-6.9831E-06	-7.2435E-05	0.673
57	72	302.6	544.6	-0.701	-0.001	11.734	10.339	-3.6318E-07	-3.8220E-07	-1.250
58	73	302.9	545.2	-0.725	-0.022	11.730	10.335	-9.3666E-06	-9.8573E-06	1.004
59	74	303.2	545.7	-0.717	-0.015	11.725	10.332	-6.2588E-06	-6.5868E-06	0.917
60	75	303.7	546.7	-0.714	-0.013	11.718	10.325	-5.117E-06	-5.695E-06	1.219
61	76	304.3	547.7	-0.712	-0.011	11.711	10.319	-4.6572E-06	-4.9015E-06	1.203
62	77	304.7	548.5	-0.713	-0.012	11.705	10.314	-4.9596E-06	-5.2500E-06	1.188
63	78	305.4	549.7	-0.702	-0.002	11.696	10.306	-7.1749E-07	-7.5519E-07	3.093
64	79	306.5	551.7	0.743	0.038	11.681	10.292	1.5996E-05	1.6838E-05	0.924
65	80	307.6	553.7	0.713	0.017	11.667	10.280	7.9789E-05	8.3994E-05	0.319
66	81	308.8	555.9	0.732	0.293	11.650	10.265	1.2480E-04	1.3139E-04	-1.303
67	82	310.0	558.0	0.489	0.431	11.635	10.252	1.8396E-04	1.9368E-04	-0.411
68	83	310.4	556.9	0.504	0.532	11.643	10.259	2.2704E-04	2.3903E-04	0.317
69	84	312.4	562.2	0.621	0.547	11.603	10.224	2.3419E-04	2.4660E-04	0.003
70	85	313.2	563.7	0.635	0.560	11.592	10.214	2.3984E-04	2.5257E-04	0.024
71	86	313.4	564.2	0.632	0.557	11.588	10.211	2.3887E-04	2.5156E-04	0.014
72	87	314.0	565.1	0.610	0.538	11.581	10.205	2.3079E-04	2.4305E-04	-0.030
73	88	315.6	568.0	0.561	0.582	11.560	10.186	2.5035E-04	2.6366E-04	0.102
74	89	316.2	569.1	0.585	0.603	11.552	10.179	2.5952E-04	2.7335E-04	-0.009
75	90	316.0	568.9	0.705	0.621	11.554	10.180	2.6732E-04	2.8157E-04	-0.032

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0661E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.1C REL LE(FT)(METER) 0.914 PT(ATM) 11.57 TT(DEG K) 1.854 HIT(JOULE/KG) RS(METER) 1.000 TEST NO. 158
 MACH 5.1C REL LE(RT)(METER) 3.5724E 06 PT(PSI) 170.08 TT(DEG R) 1933.8 HT(BTU/LBML) RS(FT) 1.000 RUN NO. 17
 MACH 5.1C REL LE(FT)(FT) 3.300 LE(FT)(FT) 3.300 HT(BTU/LBML) RS(FT) 1.000
 MACH 5.1C REL LE(RT)(FT) 3.5724E 06 LE(RT)(FT) 3.5724E 06 HT(BTU/LBML) RS(FT) 1.000
 MACH 5.1C REL LE(FT)(METER) 0.914 PT(ATM) 11.57 TT(DEG K) 1.854 HIT(JOULE/KG) RS(METER) 1.000
 MACH 5.1C REL LE(RT)(METER) 3.5724E 06 PT(PSI) 170.08 TT(DEG R) 1933.8 HT(BTU/LBML) RS(FT) 1.000
 MACH 5.1C REL LE(FT)(FT) 3.300 LE(FT)(FT) 3.300 HT(BTU/LBML) RS(FT) 1.000
 MACH 5.1C REL LE(RT)(FT) 3.5724E 06 LE(RT)(FT) 3.5724E 06 HT(BTU/LBML) RS(FT) 1.000

CHAN	T/C	H/HT	U/QS	M/MS(1.000)	F/MS(0.907)	M/MS(0.874)	CHAN	T/C	H/HT	U/QS	F/MS(1.000)	M/MS(0.907)	H/MS(0.874)
1	1	0.258	0.0011	0.0041	0.0013	0.0013	11	11	0.273	0.0751	0.0751	0.0862	0.0909
2	2	0.263	0.0065	0.0065	0.0075	0.0079	12	12	0.273	0.0806	0.0806	0.0924	0.0975
3	3	0.270	0.0273	0.0273	0.0313	0.0330	13	13	0.273	0.0809	0.0809	0.0927	0.0976
4	4	0.270	0.0319	0.0319	0.0366	0.0386	14	14	0.272	0.0830	0.0830	0.0952	0.1004
5	5	0.271	0.0379	0.0379	0.0434	0.0458	15	15	0.272	0.1003	0.1003	0.1150	0.1212
6	6	0.271	0.0391	0.0391	0.0448	0.0472	16	16	0.267	0.0701	0.0701	0.0801	0.0901
7	7	0.272	0.0489	0.0489	0.0561	0.0592	17	17	0.267	0.0005	0.0005	0.0006	0.0006
8	8	0.273	0.0698	0.0698	0.0802	0.0844	18	18	0.268	0.0008	0.0008	0.0009	0.0010
9	9	0.273	0.0697	0.0697	0.0802	0.0844	19	19	0.265	0.0050	0.0050	0.0058	0.0061
10	10	0.272	0.0671	0.0671	0.0769	0.0811	20	20	0.270	0.0255	0.0255	0.0292	0.0308

CONSTANT JET 211

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 3.9068E 06 3.5724E 06 0.914 11.57 1785.4 1.1432E 06 0.3048 1.000 17
 MACH 5.10 .01908E 06 3.5724E 06 3.000 17.508 1953.8 491.59 1.000 1.000

CHAN	T/C	TM(DEC K)	TM(DEC R)	U(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(10.874)	TIME(SEC)
1	1	302.5	549.8	0.014	0.012	12.362	10.892	3.4967E-04	4.1090E-06	0.873
2	2	306.7	552.0	0.020	0.071	12.342	10.875	2.2747E-05	2.3982E-05	0.874
3	3	307.5	553.5	0.037	0.297	12.329	10.854	9.5414E-05	1.0063E-04	0.874
4	4	307.8	554.1	0.093	0.846	12.324	10.850	1.1137E-04	1.1746E-04	0.874
5	5	308.4	555.0	0.467	3.411	12.316	10.852	1.3433E-04	1.3957E-04	0.874
6	6	308.9	556.0	0.481	3.424	12.307	10.844	1.3645E-04	1.4392E-04	0.874
7	7	309.2	556.3	0.552	3.530	12.303	10.841	1.7865E-04	1.8022E-04	0.874
8	8	310.3	558.3	0.853	5.756	12.294	10.826	2.4363E-04	2.5721E-04	0.874
9	9	310.6	559.1	0.850	5.725	12.280	10.821	2.4360E-04	2.5698E-04	0.874
10	10	310.6	559.1	0.824	5.726	12.281	10.821	2.4360E-04	2.5721E-04	0.874
11	11	310.7	559.3	0.923	6.013	12.275	10.819	2.8143E-04	2.7686E-04	0.874
12	12	310.9	559.6	0.989	6.371	12.270	10.817	2.8143E-04	2.7686E-04	0.874
13	13	310.7	559.2	0.993	6.875	12.270	10.820	4.9244E-04	2.9794E-04	0.874
14	14	309.9	557.9	1.120	7.899	12.271	10.830	4.8996E-04	3.0587E-04	0.874
15	15	309.2	556.5	1.234	8.087	12.303	10.841	3.6195E-04	3.6937E-04	0.874
16	16	304.1	547.3	-0.001	-0.001	12.384	10.912	-1.1324E-07	-2.2484E-07	1.958
17	17	303.9	547.1	-0.007	-0.004	12.380	10.913	-1.4937E-06	-1.9398E-06	1.511
18	18	305.3	549.6	0.100	0.004	12.364	10.894	2.4005E-06	2.9626E-06	0.711
19	19	306.2	551.2	0.062	0.058	12.350	10.887	1.7559E-06	1.8516E-06	0.662
20	20	306.9	552.4	0.115	0.277	12.339	10.872	8.9320E-06	9.3890E-06	0.591

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.0890E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AEROSPACE RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 R./METER 3.379 06 R.L. LENGTH(FT) 3.000 H/MS(1.000) M/MS(10.907) H/MS(0.874) TEST NO. 158
 MACH 5.10 R./METER 3.379 06 R.L. LENGTH(FT) 3.000 H/MS(1.000) M/MS(10.907) H/MS(0.874) RUN NO. 17
 MACH 5.10 R./METER 3.379 06 R.L. LENGTH(FT) 3.000 H/MS(1.000) M/MS(10.907) H/MS(0.874) RS(METER) C.3048
 MACH 5.10 R./METER 3.379 06 R.L. LENGTH(FT) 3.000 H/MS(1.000) M/MS(10.907) H/MS(0.874) RS(FT) 1.000
 MACH 5.10 R./METER 3.379 06 R.L. LENGTH(FT) 3.000 H/MS(1.000) M/MS(10.907) H/MS(0.874) HAW/HT 1.000

CHAN	T/C	M/HT	Q/US	H/MS(1.000)	H/MS(10.907)	H/MS(0.874)	CHAN	T/C	M/HT	Q/US	H/MS(1.000)	H/MS(10.907)	H/MS(0.874)
21	61	0.261	0.0152	0.0374	0.0183	0.0322	39	39	0.261	0.0322	0.0368	0.0383	
22	62	0.262	0.0025	0.0028	0.0030	0.0370	40	40	0.262	0.0370	0.0424	0.0447	
23	63	0.263	0.0008	0.0009	0.0009	0.0326	41	41	0.263	0.0326	0.0423	0.0477	
24	64	0.259	0.0024	0.0027	0.0029	0.0485	42	42	0.262	0.0485	0.0555	0.0583	
25	26	0.0000	0.0000	0.0000	0.0000	0.0551	43	43	0.263	0.0551	0.0630	0.0664	
26	26	0.0000	0.0000	0.0000	0.0000	0.0512	44	44	0.263	0.0512	0.0586	0.0617	
27	27	0.0000	0.0000	0.0000	0.0000	0.0536	45	45	0.256	0.0536	0.0612	0.0645	
28	28	0.0000	0.0000	0.0000	0.0000	0.0441	46	46	0.262	0.0441	0.0505	0.0532	
29	29	0.259	0.0006	0.0007	0.0008	0.0519	47	47	0.262	0.0519	0.0592	0.0629	
30	30	0.0000	0.0000	0.0000	0.0000	0.0102	48	48	0.266	0.0102	0.0116	0.0129	
31	31	0.258	0.0001	0.0001	0.0001	0.0498	49	49	0.262	0.0498	0.0569	0.0600	
32	32	0.275	0.0013	0.0015	0.0016	0.0520	50	50	0.262	0.0520	0.0595	0.0627	
33	33	0.259	0.0003	0.0003	0.0003	0.0000	51	45	0.258	0.0000	-0.0000	-0.0000	
34	34	0.259	0.0030	0.0035	0.0037	0.0001	52	66	0.259	0.0001	0.0001	0.0001	
35	35	0.260	0.0005	0.0005	0.0006	0.0008	53	67	0.258	0.0008	-0.0009	-0.0009	
36	36	0.260	0.0018	0.0021	0.0022	0.0048	54	68	0.260	0.0048	0.0055	0.0058	
37	37	0.261	0.0081	0.0093	0.0098	0.0000	55	69	0.0000	0.0000	0.0000	0.0000	
38	38	0.262	0.0287	0.0328	0.0346	0.0000	55	69	0.0000	0.0000	0.0000	0.0000	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***														
MACH		RE/METER	REL	TM(DEC K)	TM(DEC R)	U(W/CM2)	U(BTU/FT2-SEC)	OS(W/CM2)	QS(W/CM2)	US(BTU/FT2-SEC)	STIO(.874)	TIME(SEC)	TEST NO.	153
5.13		3.695E 06	3.3791E 06	C-914	C-914	170.08	112.9	112.9	112.9	112.9	112.9	112.9	1.000	17
MACH		RE/FT	REL	TM(DEC K)	TM(DEC R)	U(W/CM2)	U(BTU/FT2-SEC)	OS(W/CM2)	QS(W/CM2)	US(BTU/FT2-SEC)	STIO(.874)	TIME(SEC)	TEST NO.	17
5.13		1.1264E 06	3.3791E 06	C-914	C-914	170.08	112.9	112.9	112.9	112.9	112.9	112.9	1.000	17
21	61	308.4	555.2	0.197	0.173	12.936	11.398	12.936	11.398	5.4266E-05	5.7189E-05	0.321	1.000	17
22	62	307.6	553.7	0.132	0.028	12.949	11.410	12.949	11.410	9.9819E-06	9.3597E-06	0.653	1.000	17
23	63	306.3	551.7	0.110	0.009	12.969	11.428	12.969	11.428	2.7090E-06	2.8545E-06	1.495	1.000	17
24	64	305.9	550.6	0.031	0.027	12.976	11.634	12.976	11.634	8.5027E-06	8.9590E-06	0.421	1.000	17
25	26	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.000	17
26	27	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.000	17
27	28	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.000	17
28	29	305.7	550.3	0.108	0.007	12.978	11.436	12.978	11.436	2.2481E-06	2.3687E-06	1.010	1.000	17
29	30	304.5	548.1	0.001	0.001	12.997	11.452	12.997	11.452	3.5636E-07	3.7545E-07	3.295	1.000	17
30	31	304.5	548.1	0.116	0.015	12.680	11.173	12.680	11.173	4.0449E-06	4.2099E-06	7.938	1.000	17
31	32	304.6	549.6	0.004	0.003	12.985	11.441	12.985	11.441	1.0098E-06	1.0650E-06	1.584	1.000	17
32	33	305.3	550.8	0.070	0.035	12.974	11.432	12.974	11.432	1.0884E-05	1.1468E-05	0.791	1.000	17
33	34	306.0	551.7	0.006	0.026	12.967	11.425	12.967	11.425	1.7283E-06	1.8212E-06	0.409	1.000	17
34	35	307.2	552.9	0.023	0.021	12.940	11.416	12.940	11.416	6.4360E-06	6.7820E-06	0.430	1.000	17
35	36	308.2	554.7	0.005	0.032	12.940	11.402	12.940	11.402	2.8916E-05	3.0473E-05	3.339	1.000	17
36	37	308.2	555.8	0.071	0.037	12.930	11.398	12.930	11.398	1.0240E-04	1.0792E-04	0.308	1.000	17
37	38	308.4	555.2	0.416	0.367	12.936	11.383	12.936	11.383	1.1498E-04	1.2116E-04	0.620	1.000	17
38	39	309.5	557.1	0.479	0.422	12.919	11.406	12.919	11.406	1.3233E-04	1.3947E-04	0.876	1.000	17
39	40	309.5	556.2	0.512	0.451	12.944	11.406	12.944	11.406	1.4136E-04	1.4897E-04	0.619	1.000	17
40	41	309.3	556.7	0.627	0.553	12.922	11.374	12.922	11.374	1.7332E-04	1.8267E-04	0.118	1.000	17
41	42	310.2	558.3	0.711	0.626	12.908	11.374	12.908	11.374	1.9670E-04	2.0732E-04	0.216	1.000	17
42	43	310.4	558.7	0.560	0.582	12.905	11.371	12.905	11.371	1.8483E-04	1.9279E-04	0.118	1.000	17
43	44	302.5	544.5	0.698	0.615	13.030	11.481	13.030	11.481	1.9118E-04	2.0140E-04	0.216	1.000	17
44	45	302.5	544.5	0.548	0.488	12.910	11.381	12.910	11.381	1.7300E-04	1.8267E-04	0.216	1.000	17
45	46	302.5	544.5	0.548	0.488	12.910	11.381	12.910	11.381	1.7300E-04	1.8267E-04	0.216	1.000	17
46	47	302.5	544.5	0.548	0.488	12.910	11.381	12.910	11.381	1.7300E-04	1.8267E-04	0.216	1.000	17
47	48	302.5	544.5	0.548	0.488	12.910	11.381	12.910	11.381	1.7300E-04	1.8267E-04	0.216	1.000	17
48	49	309.2	556.5	0.643	0.567	12.924	11.388	12.924	11.388	1.7773E-04	1.8731E-04	0.256	1.000	17
49	50	309.2	556.5	0.643	0.567	12.924	11.388	12.924	11.388	1.7773E-04	1.8731E-04	0.256	1.000	17
50	51	304.5	548.1	0.500	0.400	12.998	11.453	12.998	11.453	1.3599E-08	-1.4749E-08	8.489	1.000	17
51	52	305.1	549.3	0.501	0.401	12.988	11.444	12.988	11.444	3.8934E-07	4.1021E-07	0.195	1.000	17
52	53	304.8	548.7	0.210	0.209	12.992	11.448	12.992	11.448	2.8024E-06	-2.9526E-06	0.195	1.000	17
53	54	307.0	552.6	0.063	0.055	12.958	11.418	12.958	11.418	1.7310E-05	1.8240E-05	0.434	1.000	17
54	55	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.000	17

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.02140E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER TUFTT FIELD CALIF. *** PRELIMINARY DATA ***										
MAC	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(IN/LE/KG)	RS(METER)	MAW/HT	TEST NO.	158	
5.1	3.2493	0.914	11.57	1148.2	1.219E 06	0.3046	1.000	RUN NO.	17	
MACH	R	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(FTU/LBM)	RS(FT)	MAW/HT			
0.10	3.2493	3.000	170.28	2066.8	922.84	1.0000	1.000			
CMAN	T/C	U/US	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	Q/QS	HM/HT	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
56	71	-0.0020	-0.0020	-0.0024	-0.0024	0.274	0.259	0.0274	0.0274	0.0313
57	72	-0.0014	-0.0014	-0.0016	-0.0017	0.0406	0.260	0.0406	0.0406	0.0489
58	73	-0.0018	-0.0018	-0.0021	-0.0022	0.0484	0.260	0.0484	0.0484	0.0554
59	74	-0.0016	-0.0016	-0.0018	-0.0019	0.0477	0.262	0.0477	0.0477	0.0573
60	75	-0.0003	-0.0003	-0.0004	-0.0004	0.0479	0.263	0.0479	0.0479	0.0548
61	76	-0.0008	-0.0008	-0.0010	-0.0010	0.0476	0.263	0.0476	0.0476	0.0545
62	77	-0.0014	-0.0014	-0.0016	-0.0017	0.0490	0.264	0.0490	0.0490	0.0574
63	78	0.0002	0.0002	0.0003	0.0003	0.0438	0.266	0.0438	0.0438	0.0501
64	79	0.0030	0.0030	0.0035	0.0036	0.0524	0.267	0.0524	0.0524	0.0600
65	80	0.0172	0.0172	0.0177	0.0207	0.0554	0.267	0.0554	0.0554	0.0669

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RC/421ER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.	
5.13	3.5535E 06	3.2493E 06	C.914	13.57	1148.2	1.2158E 06	0.3048	1.000	17	
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.	
5.13	3.0831E 05	3.2493E 06	3.300	170.08	2066.8	522.84	1.3003	1.000		
CHAN	TC	TT(DEG K)	TT(DEG R)	Q(W/CM2)	Q(BT/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.907)	ST(O.974)	TIME(SEC)
56	71	368.4	551.5	-0.226	-0.023	13.416	11.821	-7.1063E-06	-7.4840E-06	0.765
57	72	368.4	551.6	-0.119	-0.017	13.416	11.821	-5.7780E-06	-5.3479E-06	0.725
58	73	368.6	551.9	-0.124	-0.021	13.413	11.818	-6.5816E-06	-6.9315E-06	0.854
59	74	367.2	553.0	-0.222	-0.019	13.403	11.810	-5.8384E-06	-6.1491E-06	1.040
60	75	367.7	553.9	-0.204	-0.004	13.395	11.803	-1.1971E-06	-1.2608E-06	-0.001
61	76	368.5	555.3	-0.211	-0.010	13.382	11.792	-3.7818E-06	-3.2461E-06	0.893
62	77	369.0	556.2	-0.219	-0.017	13.374	11.785	-5.1879E-06	-5.4646E-06	1.211
63	78	370.1	558.1	0.103	0.003	13.358	11.770	8.1555E-07	8.5910E-07	0.447
64	79	370.9	559.6	0.240	0.036	13.345	11.759	1.3991E-05	1.1578E-05	0.734
65	80	372.0	561.6	0.390	0.202	13.327	11.743	6.2536E-05	6.3865E-05	0.139
66	81	373.6	564.5	0.364	0.321	13.302	11.721	9.9437E-05	1.0477E-04	-0.558
67	82	374.9	568.9	0.339	0.475	13.281	11.702	1.4731E-04	1.5523E-04	-0.346
68	83	374.4	565.9	0.643	0.567	13.290	11.710	1.7582E-04	1.8266E-04	0.176
69	84	377.5	571.4	0.631	0.556	13.241	11.667	1.7322E-04	1.8256E-04	-0.214
70	85	378.6	573.5	0.633	0.558	13.224	11.651	1.7396E-04	1.8336E-04	-0.211
71	86	379.0	574.2	0.629	0.554	13.217	11.646	1.7295E-04	1.8229E-04	-0.200
72	87	379.6	575.2	0.547	0.570	13.208	11.638	1.7784E-04	1.8746E-04	-0.158
73	88	321.6	579.0	0.577	0.508	13.175	11.609	1.5902E-04	1.6764E-04	-0.273
74	89	323.0	581.4	0.689	0.608	13.153	11.589	1.9049E-04	2.0064E-04	-0.206
75	90	323.9	581.2	0.729	0.642	13.155	11.592	2.0130E-04	2.1232E-04	-0.204

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9617E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ***

TEST NO. 158

MACH 5.10 REL LENGTH(METER) 4.503E 06 REL LENGTH(FT) 3.75C M/HS(1.000) M/HS(0.907) M/HS(0.874) H/HT Q/QS HW/HT T/C CHAN T/C H/HS(1.000) H/HS(0.907) H/HS(0.874)

CHAN	T/C	H/HT	Q/QS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)	HW/HT	T/C	CHAN	T/C	HW/HT	Q/QS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)
1	1	0.265	0.010	0.0010	0.0012	0.0012	0.270	11	11	0.2476	0.2476	0.2476	0.2476	0.2837	0.2992
2	2	0.265	0.0087	0.0087	0.0100	0.0103	0.270	12	12	0.2432	0.2432	0.2432	0.2432	0.2787	0.2939
3	3	0.267	0.0562	0.0562	0.0644	0.0679	0.270	13	13	0.2630	0.2630	0.2630	0.2630	0.3014	0.3179
4	4	0.267	0.0836	0.0836	0.0958	0.1010	0.269	14	14	0.2427	0.2427	0.2427	0.2427	0.2781	0.2932
5	5	0.268	0.1277	0.1277	0.1462	0.1542	0.268	15	15	0.2790	0.2790	0.2790	0.2790	0.3197	0.3371
6	6	0.268	0.1587	0.1587	0.1818	0.1918	0.264	16	16	0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
7	7	0.269	0.1851	0.1851	0.2121	0.2236	0.264	17	17	0.0002	-0.0002	-0.0002	-0.0002	-0.0002	-0.0002
8	8	0.270	0.2135	0.2135	0.2446	0.2579	0.265	18	18	0.0014	0.0014	0.0014	0.0014	0.0016	0.0017
9	9	0.270	0.2142	0.2142	0.2454	0.2589	0.266	19	19	0.0076	0.0076	0.0076	0.0076	0.0087	0.0092
10	10	0.270	0.2109	0.2109	0.2416	0.2548	0.266	20	20	0.0561	0.0561	0.0561	0.0561	0.0643	0.0671

CONSTANT SET 211

1.000

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER REL LENGTH(METE/FT) PT(ATM) TT(DEG K) MI(JOULE/KG) RS(METER) HAM/MT TEST NO. 158
 4.9240E 06 4.5030E 06 15.07 1106.6 1.1676E 06 0.3046 1.000 RUN NO. 18
 MACH 5.10 RE/FT REL LENGTH(FT) PT(PSI) TT(DEG N) MI(BTU/LBM) RS(LF) HAM/MT
 1.5010E 06 4.5030E 06 22.48 1992.0 502.11 1.0000 1.000

CHAN	T/C	TT(DEG K)	TT(DEG R)	QIM/CM2	QIBTU/FT2-SEC	QSIM/CM2	QSIBTU/FT2-SEC	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	308.2	554.7	0.013	0.013	14.470	12.750	3.1478E-06	3.3104E-06	0.747
2	2	309.5	557.0	0.126	0.111	14.446	12.729	2.6999E-05	2.8405E-05	0.914
3	3	310.4	558.7	0.811	0.715	14.430	12.715	1.7435E-04	1.8383E-04	0.752
4	4	310.7	559.3	1.206	1.063	14.424	12.709	2.5929E-04	2.7339E-04	0.678
5	5	311.2	560.2	1.840	1.622	14.414	12.701	3.9598E-04	4.1753E-04	0.413
6	6	311.9	561.4	2.286	2.014	14.403	12.691	4.9234E-04	5.1917E-04	0.332
7	7	312.2	562.0	2.665	2.348	14.396	12.685	5.7416E-04	6.0546E-04	0.371
8	8	313.4	564.1	3.069	2.704	14.376	12.667	6.6215E-04	6.9830E-04	0.521
9	9	313.8	564.9	3.077	2.711	14.368	12.660	6.5443E-04	7.0073E-04	0.539
10	10	313.8	564.8	3.730	2.670	14.369	12.661	6.5414E-04	6.8987E-04	0.539
11	11	313.9	564.9	3.557	3.134	14.367	12.659	7.6798E-04	8.0994E-04	0.560
12	12	313.9	565.0	3.493	3.078	14.366	12.658	7.5440E-04	7.9562E-04	0.573
13	13	313.7	564.6	3.780	3.330	14.370	12.662	8.1593E-04	8.6049E-04	0.576
14	14	312.9	563.3	3.491	3.076	14.384	12.674	7.5277E-04	7.9304E-04	0.576
15	15	312.1	561.7	4.018	3.540	14.400	12.688	8.6544E-04	9.1269E-04	0.579
16	16	306.6	551.9	-0.004	-0.003	14.488	12.775	-8.3045E-07	-8.7534E-07	1.348
17	17	306.5	551.6	-0.003	-0.002	14.503	12.777	-5.7339E-07	-6.0439E-07	1.821
18	18	308.0	554.4	0.021	0.018	14.472	12.752	4.4364E-06	4.6760E-06	0.927
19	19	309.1	556.3	0.110	0.097	14.453	12.735	2.3694E-05	2.4900E-05	0.991
20	20	309.8	557.6	0.811	0.714	14.441	12.724	1.7407E-04	1.8353E-04	0.838

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.9653E-C1 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER REL LE 10TH(METEFT) PT(ATM) TT(DEG K) HI(JOULE/KG) RS(METER) HAM/HT TEST NG. 1:58
 4.6273E 06 4.2312E 06 6.914 15.07 1148.2 1.2158E C6 0.3048 1.000 RUN NO. 18
 MACH 5.10 RE/FT REL LE 10TH(FT) PI(PST) TT(DEG R) HI(BTU/LBM) RS(FT) HAM/HT
 1.4104E 06 4.2312E 06 3.000 221.48 2066.8 522.84 1.0000 1.000

CHAN	T/C	H/HT	G/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	H/HT	G/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
21	61	0.257	0.0357	0.0001	0.0001	0.0430	39	39	0.258	0.1354	0.1354	0.1549	0.1631
22	62	0.257	0.0060	0.0000	0.0000	0.0072	40	40	0.259	0.1665	0.1665	0.1904	0.2006
23	63	0.256	-0.0003	-0.0003	-0.0003	-0.0003	41	41	0.258	0.1974	0.1974	0.2257	0.2377
24	64	0.256	0.0044	0.0044	0.0050	0.0053	42	42	0.259	0.2188	0.2188	0.2502	0.2636
25	26	0.256	0.0000	0.0000	0.0000	0.0000	43	43	0.260	0.1898	0.1898	0.2159	0.2275
26	26	0.256	0.0000	0.0000	0.0000	0.0000	44	44	0.260	0.1877	0.1877	0.2067	0.2178
27	27	0.256	0.0000	0.0000	0.0000	0.0000	45	45	0.253	0.1916	0.1916	0.2188	0.2305
28	28	0.256	0.0000	0.0000	0.0000	0.0000	46	46	0.259	0.1774	0.1774	0.2029	0.2138
29	29	0.255	0.0015	0.0015	0.0017	0.0018	47	47	0.259	0.2270	0.2270	0.2596	0.2735
30	30	0.254	0.0000	0.0000	0.0000	0.0000	48	48	0.259	0.2378	0.2378	0.2720	0.2865
31	31	0.254	-0.0001	0.0001	0.0001	0.0001	49	49	0.259	0.2378	0.2378	0.2720	0.2865
32	32	0.255	0.0000	0.0000	0.0000	0.0000	50	50	0.258	0.2593	0.2593	0.2965	0.3124
33	33	0.255	0.0005	0.0005	0.0005	0.0006	51	51	0.254	-0.0013	-0.0013	-0.0014	-0.0015
34	34	0.256	-0.0018	-0.0018	-0.0021	-0.0022	52	52	0.255	-0.0013	-0.0013	-0.0015	-0.0016
35	35	0.256	0.0035	0.0035	0.0035	0.0042	53	53	0.255	-0.0012	-0.0012	-0.0014	-0.0015
36	36	0.257	0.0073	0.0073	0.0083	0.0088	54	54	0.257	0.0108	0.0108	0.0123	0.0130
37	37	0.258	0.0209	0.0209	0.0239	0.0251	55	55	0.258	-0.0620	-0.0620	-0.0709	-0.0747
38	38	0.258	0.0910	0.0910	0.1040	0.1096							

MACH 5.10
 MACH 5.10
 MACH 5.10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 RE/METER 4.2312E 06 REL 4.2312E 06
 RE/FT 3.30C
 RE/FT 3.30C

PT(ATM) 15.07
 PT(PSI) 221.48
 PS(METER) 0.3046
 RS(LFT) 1.0000

TT(1000) 1148.2
 TT(1000) 2066.8
 TT(1000) 1.0000

HMI(JOULE/KG) 1.2158E 06
 HMI(BTU/LBM) 522.84
 HAM/HT 1.0000

TEST NO. 158 70
 RUN NO. 18

CHAN	T/C	TM(1000) K)	TM(1000) R)	Q(W/CM2)	Q(BTU/FT2-SEC)	US(W/CM2)	US(BTU/FT2-SEC)	SI(10.874)	SI(10.907)	TIME(SEC)
21	61	311.6	560.8	0.543	0.479	15.216	13.407	1.1358E-04	1.1966E-04	0.417
22	62	311.9	559.7	0.591	0.081	15.227	13.417	1.9089E-05	2.0110E-05	0.614
23	63	319.9	557.8	-0.004	-0.004	15.247	13.434	-9.9013E-07	-9.3766E-07	0.713
24	64	319.4	556.9	0.067	0.059	15.256	13.442	1.3953E-05	1.4698E-05	0.371
25	26	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
26	26	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
27	27	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
28	28	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
29	29	319.0	556.1	0.023	0.020	15.263	13.449	4.7970E-06	5.0528E-06	0.714
30	30	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
31	31	307.6	553.8	0.001	0.001	15.287	13.470	3.3420E-07	3.5410E-07	7.111
32	32	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
33	33	318.6	555.5	0.107	0.006	15.269	13.454	1.5030E-04	1.5831E-04	0.611
34	34	309.4	556.9	-0.027	-0.024	15.255	13.442	-5.7158E-06	-6.0208E-06	2.917
35	35	309.8	557.6	0.053	0.047	15.248	13.435	1.1114E-05	1.1707E-05	0.274
36	36	310.6	559.0	0.111	0.098	15.234	13.423	2.3152E-05	2.4389E-05	0.617
37	37	311.7	561.1	0.118	0.280	15.213	13.405	6.2397E-05	6.9952E-05	0.719
38	38	312.5	562.5	1.383	1.218	15.199	13.392	2.8942E-04	3.0491E-04	0.706
39	39	312.2	561.9	2.059	1.815	15.205	13.398	4.2090E-04	4.5398E-04	0.415
40	40	313.3	564.0	2.528	2.227	15.184	13.380	5.2869E-04	5.5810E-04	0.276
41	41	311.8	561.3	3.003	2.646	15.211	13.403	6.2796E-04	6.6158E-04	0.130
42	42	313.3	563.9	3.323	2.928	15.185	13.380	6.9624E-04	7.3359E-04	0.266
43	43	314.3	565.8	2.863	2.522	15.166	13.363	6.7061E-04	6.3267E-04	0.398
44	44	314.6	566.2	2.740	2.415	15.162	13.359	5.7512E-04	6.0602E-04	0.337
45	45	308.6	551.9	2.932	2.584	15.305	13.486	6.0923E-04	6.4162E-04	0.534
46	46	313.7	564.7	2.693	2.373	15.177	13.373	5.6486E-04	5.9486E-04	0.404
47	47	313.6	564.5	3.446	3.036	15.179	13.375	7.2228E-04	7.6104E-04	0.424
48	48	-0.0	-0.0	.....	.....	.....	.....	.....	.....	.....
49	49	313.2	563.7	3.012	2.683	15.187	13.382	7.5671E-04	7.9730E-04	0.439
50	50	312.7	562.9	3.940	3.472	15.195	13.389	9.2493E-04	9.6914E-04	0.455
51	51	307.8	554.1	-0.019	-0.017	15.284	13.467	-4.0204E-06	-4.2344E-06	0.413
52	66	308.6	555.5	-0.020	-0.017	15.269	13.454	-4.1037E-06	-4.3225E-06	0.158
53	67	308.4	555.1	-0.019	-0.017	15.273	13.458	-3.9369E-06	-4.1467E-06	-0.130
54	68	310.7	559.3	0.164	0.145	15.232	13.421	3.4250E-05	3.6081E-05	0.976
55	69	312.9	563.2	-0.042	-0.030	15.193	13.387	-1.9728E-04	-2.0785E-04	2.074

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.8567E-1 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 REL/METER 4.0668E 06 REL LENGTH(FT) 3.000 H/MS(0.907) M/MS(0.907) M/MS(0.874) TEST NO. 158

REL LENGTH(FT) 3.000 H/MS(0.907) M/MS(0.907) M/MS(0.874) RUN NO. 18

REL LENGTH(FT) 3.000 H/MS(0.907) M/MS(0.907) M/MS(0.874)

CHAN	T/C	HM/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
56	71	0.250	-0.0008	-0.0008	-0.0009	-0.0009	66	81	0.257	0.1258	0.1058	0.1209	0.1274
57	72	0.250	-0.0008	-0.0008	-0.0009	-0.0009	67	82	0.258	0.1592	0.1592	0.1820	0.1917
58	73	0.250	-0.0012	-0.0012	-0.0013	-0.0014	68	83	0.258	0.1750	0.1750	0.2001	0.2108
59	74	0.251	-0.0001	0.0001	0.0001	0.0001	69	84	0.260	0.1775	0.1775	0.2033	0.2139
60	75	0.251	0.0004	0.0004	0.0004	0.0004	70	85	0.261	0.1822	0.1822	0.2084	0.2196
61	76	0.252	0.0003	0.0003	0.0004	0.0004	71	86	0.262	0.1875	0.1875	0.2145	0.2261
62	77	0.252	0.0001	0.0001	0.0002	0.0002	72	87	0.262	0.2007	0.2007	0.2296	0.2420
63	78	0.252	0.0017	0.0017	0.0020	0.0021	73	88	0.264	0.2001	0.2001	0.2290	0.2414
64	79	0.254	0.0081	0.0081	0.0092	0.0097	74	89	0.265	0.2311	0.2311	0.2646	0.2789
65	80	0.255	0.0659	0.0659	0.0754	0.0794	75	90	0.265	0.2703	0.2703	0.3095	0.3262

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 RE/METER 4.476E 06 LENGTH(METER) P(TIATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT 1.000
 MACH 5.10 RE/FT 1.3556E 06 LENGTH(FT) P(TPSI) TT(DEG R) HT(BTU/LBH) RS(FT) HAM/HT 1.000

CHAN	T/C	TWIDEG KI	TWIDEG R	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
56	71	310.5	558.9	-0.912	-0.011	15.762	13.889	-2.4803E-06	-2.6115E-06	-1.063
57	72	310.4	558.8	-0.912	-0.011	15.764	13.890	-2.4476E-06	-2.5770E-06	-0.961
58	73	310.7	559.3	-0.919	-0.016	15.759	13.886	-3.5042E-06	-4.0253E-06	0.036
59	74	311.3	560.4	0.901	0.001	15.747	13.876	1.9853E-07	2.0904E-07	20.217
60	75	312.0	561.5	0.906	0.005	15.736	13.865	1.2026E-06	1.2663E-06	2.757
61	76	312.6	563.0	0.905	0.004	15.721	13.852	9.9799E-07	1.0528E-06	2.908
62	77	313.4	564.1	0.902	0.002	15.711	13.843	4.5920E-07	4.8358E-07	4.472
63	78	314.6	566.3	0.927	0.024	15.688	13.824	5.6031E-06	5.9010E-06	0.812
64	79	315.8	568.4	0.927	0.024	15.667	13.805	2.9159E-05	2.7554E-05	0.814
65	80	317.3	571.1	1.931	0.909	15.640	13.781	2.1333E-04	2.2471E-04	0.500
66	81	319.1	574.4	1.651	1.455	15.607	13.752	3.4221E-04	3.6251E-04	-0.117
67	82	320.6	577.0	2.480	2.185	15.582	13.728	5.1500E-04	5.4259E-04	0.110
68	83	320.2	576.4	2.728	2.404	15.586	13.734	5.6631E-04	5.9664E-04	0.494
69	84	323.5	582.3	2.755	2.428	15.528	13.682	5.7431E-04	6.0520E-04	0.137
70	85	325.6	586.3	2.825	2.489	15.507	13.664	5.9563E-04	6.2139E-04	0.114
71	86	329.0	589.0	2.906	2.561	15.501	13.658	6.6866E-04	6.3957E-04	0.147
72	87	325.6	586.1	3.108	2.738	15.489	13.648	6.4951E-04	6.8454E-04	0.172
73	88	327.3	589.2	3.793	2.725	15.458	13.621	6.4768E-04	6.8270E-04	0.207
74	89	328.6	591.9	3.567	3.143	15.431	13.597	7.4840E-04	7.8893E-04	0.227
75	90	329.1	592.4	4.170	3.674	15.426	13.593	8.7529E-04	9.2272E-04	0.243

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.788E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 19
 CONSTANT SEPT 21/

REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT
 2.5039E 06 0.914 8.14 1147.5 1.2150E 06 0.3048 1.000
 REL LENGTH(FT) PT(PSI) TT(DEG R) FT(LBTL/LBM) RS(FT) HAM/HT
 7.8318E 05 2.2895E 06 3.000 119.72 2065.5 522.48 1.0000 1.000

MACH 5.10
 MACH 5.10

REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT
 2.5039E 06 0.914 8.14 1147.5 1.2150E 06 0.3048 1.000
 REL LENGTH(FT) PT(PSI) TT(DEG R) FT(LBTL/LBM) RS(FT) HAM/HT
 7.8318E 05 2.2895E 06 3.000 119.72 2065.5 522.48 1.0000 1.000

CHAN	T/C	H/W/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
1	1	C.256	C.CC9	0.0058	0.0112	0.0118	14	14	0.258	0.0728	0.0728	0.0832	0.0877
2	2	C.257	C.C296	0.0339	0.0357	0.0357	15	15	0.257	0.0841	0.0841	0.0961	0.1012
3	3	C.257	C.0E38	0.0838	0.0958	0.1009	16	16	0.255	0.0024	0.0024	0.0028	0.0029
4	4	C.257	C.0748	0.0748	0.0855	0.0900	17	17	0.255	0.0013	0.0013	0.0015	0.0015
5	5	C.258	C.0787	0.0787	0.0900	0.0948	18	18	0.256	0.0092	0.0092	0.0105	0.0111
6	6	C.258	C.0841	0.0841	0.0962	0.1013	19	19	0.256	0.0257	0.0257	0.0293	0.0309
7	7	C.258	C.1151	0.1151	0.1316	0.1386	20	20	0.257	0.0772	0.0772	0.0883	0.0930
8	8	C.259	C.1050	0.1050	0.1200	0.1265	21	21	0.258	0.0242	0.0242	0.0277	0.0282
9	9	C.255	C.C903	0.0903	0.1032	0.1069	22	22	0.257	0.0066	0.0066	0.0098	0.0103
10	10	C.255	C.C755	0.0755	0.0863	0.0909	23	23	0.257	0.0027	0.0027	0.0030	0.0032
11	11	C.253	C.C760	0.0760	0.0869	0.0916	24	24	0.257	0.0013	0.0013	0.0015	0.0015
12	12	C.258	C.0779	0.0779	0.0891	0.0938	25	25	0.257	0.0013	0.0013	0.0015	0.0015
13	13	C.258	C.C735	0.0735	0.0842	0.0885			*****	*****	*****	*****	*****

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CENTER RESEARCH MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH REP/METER REL LENGTH(METER) PT(ATM) TT(CEG K) HT(JOULE/KG) RS(METER) PAM/HT TEST NO. 158
 5.10 2.5035E C5 2.2855E C6 C.914 3.14 1147.5 1.2150E 06 0.3048 1.000 1.000
 PACH RE/FT REL LENGTH(FT) P(P(SI)) TT(DEC R) HT(LB/LBM) RS(FT) HAM/HT RUN NO. 19
 5.10 7.6318E C5 2.2895E C6 3.000 119.72 2065.5 522.48 1.0000 1.000

CHAN	T/C	TM(CEG K)	TM(DEC R)	Q(W/CM2)	Q(LBTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(U.907)	ST(O.874)	TIME(SEC)
1	1	309.6	537.2	0.109	0.096	11.203	9.872	4.2243E-05	4.4498E-05	0.143
2	2	313.5	558.9	0.331	0.292	11.191	9.861	1.2808E-04	1.3493E-04	0.442
3	3	311.2	560.2	0.937	0.826	11.181	9.852	5.5249E-04	5.8188E-04	0.910
4	4	311.4	550.5	0.836	0.736	11.179	9.851	3.2330E-04	3.4060E-04	-0.593
5	5	311.9	561.3	0.879	0.775	11.173	9.845	3.6044E-04	3.5868E-04	-1.287
6	6	312.3	562.2	0.939	0.827	11.165	9.839	3.6375E-04	3.8323E-04	-1.081
7	7	312.5	562.6	1.285	1.132	11.164	9.837	4.9771E-04	5.2439E-04	-0.240
8	8	313.0	563.4	1.171	1.032	11.157	9.831	4.5602E-04	4.7837E-04	0.193
9	9	313.1	563.7	1.007	0.887	11.156	9.830	3.9049E-04	4.1143E-04	0.149
10	10	312.8	563.1	0.842	0.742	11.160	9.834	3.2640E-04	3.4390E-04	0.170
11	11	312.7	562.8	0.848	0.747	11.162	9.835	3.2873E-04	3.4634E-04	0.151
12	12	312.7	562.8	0.869	0.766	11.162	9.836	3.3690E-04	3.5497E-04	0.205
13	13	312.5	562.5	0.821	0.723	11.164	9.837	3.1790E-04	3.3494E-04	0.140
14	14	311.5	561.5	0.813	0.717	11.172	9.844	3.1487E-04	3.3173E-04	0.202
15	15	311.5	560.6	0.940	0.828	11.178	9.849	3.6360E-04	3.8306E-04	0.214
16	16	308.2	554.9	0.027	0.024	11.220	9.887	1.0525E-05	1.1086E-05	0.217
17	17	308.1	554.6	0.014	0.013	11.223	9.889	5.5604E-06	5.8567E-06	0.148
18	18	309.4	556.9	0.103	0.091	11.206	9.874	3.9857E-05	4.1984E-05	0.147
19	19	310.2	558.5	0.287	0.253	11.194	9.863	1.1093E-04	1.1684E-04	0.453
20	20	310.9	559.0	0.864	0.761	11.186	9.856	3.3393E-04	3.5179E-04	0.014
21	21	311.2	561.2	0.771	0.731	11.174	9.846	1.0488E-04	1.1050E-04	-0.214
22	22	311.3	560.7	0.096	0.085	11.178	9.849	3.7158E-05	3.9146E-05	0.013
23	23	310.5	559.0	0.030	0.026	11.190	9.860	1.1499E-05	1.2114E-05	-0.145
24	24	310.4	558.8	0.014	0.013	11.192	9.862	5.5351E-06	5.8310E-06	-0.167
25	25	-0.0	-0.0	*****	*****	*****	*****	3.1447E-02	3.2624E-02	0.040

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0857E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LE (GTH(METER))	PT(ATM)	YI(CEG K)	FT(JULF/KG)	RS(METER)	PAW/HT	TEST NO.
5.10	2.3627E C6	2.1604E C5	C.914	3.14	1187.4	1.2616E 06	0.3048	1.000	158
MACH	RE/FT	REL	LENGTH(FT)	PT(PSSI)	YI(CEG R)	MT(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.
5.10	7.2215E C5	2.1604E C6	3.000	119.72	2137.3	542.50	1.0000	1.000	19

CHAN	T/C	FW/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	F/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	M/HS(1.000)	H/HS(0.907)	H/HS(0.874)
26	39	0.247	0.0011	0.0013	0.0014	0.0014	39	39	0.249	0.0710	0.0810	0.0853	
27	40	0.246	-0.0002	-0.0003	-0.0003	-0.0003	40	40	0.250	0.0831	0.0949	0.0959	
28	41	0.247	0.0011	0.0013	0.0014	0.0014	41	41	0.249	0.0983	0.1122	0.1181	
29	42	0.247	0.0011	0.0013	0.0014	0.0014	42	42	0.250	0.1121	0.1280	0.1348	
30	43	0.246	-0.0002	-0.0003	-0.0003	-0.0003	43	43	0.251	0.0938	0.1071	0.1128	
31	44	0.246	-0.0002	-0.0003	-0.0003	-0.0003	44	44	0.251	0.0811	0.0926	0.0975	
32	45	0.247	0.0011	0.0013	0.0014	0.0014	45	45	0.244	0.0692	0.0789	0.0830	
33	46	0.247	0.0011	0.0013	0.0014	0.0014	46	46	0.250	0.0603	0.0689	0.0725	
34	47	0.247	0.0011	0.0013	0.0014	0.0014	47	47	0.250	0.0369	0.0763	0.0804	
35	48	0.248	0.0045	0.0052	0.0055	0.0055	48	48	0.250	0.0640	0.0731	0.0769	
36	49	0.248	0.0045	0.0052	0.0055	0.0055	49	49	0.250	0.0640	0.0731	0.0769	
37	50	0.249	0.0217	0.0248	0.0261	0.0261	50	50	0.249	0.0657	0.0750	0.0789	
38	50	0.249	0.0693	0.0791	0.0833	0.0833	50	50	0.249	0.0657	0.0750	0.0789	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER HCFEFT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 2.1627E 06 REL LENGTH(METER) PT(ATN) YI(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.10 RE/FT 7.2015E 06 REL LENGTH(FT) 119.72 YI(DEG R) FT(LBU/LBM) RS(FT) HAM/HT RUN NO. 19
 MACH 5.10 RE/FT 7.2015E 06 REL LENGTH(FT) 119.72 YI(DEG R) FT(LBU/LBM) RS(FT) HAM/HT 1.0000

CHAN	T/C	TM(DEC R)	U(W/CM2)	L(BTU/FT2-SEC)	CS(W/CM2)	QS(BTU/FT2-SEC)	SI(C.907)	SI(0.874)	TIME(SEC)
26	-0.0	-0.0	*****	*****	*****	*****	3.1000E-02	3.2300E-02	0.000
27	-0.0	-0.0	*****	*****	*****	*****	3.1000E-02	3.2300E-02	0.000
28	-0.0	-0.0	*****	*****	*****	*****	3.1000E-02	3.2300E-02	0.000
29	310.1	558.2	0.013	0.012	11.766	10.367	4.9839E-06	5.2462E-06	-2.328
30	-0.0	-0.0	*****	*****	*****	*****	3.1000E-02	3.2300E-02	0.000
31	309.3	556.8	-0.003	-0.002	11.777	10.377	-9.7179E-07	-1.0229E-06	3.511
32	-0.0	-0.0	*****	*****	*****	*****	3.1000E-02	3.2300E-02	0.000
33	310.0	558.1	0.019	0.017	11.767	10.368	7.0859E-06	7.4587E-06	-0.946
34	310.6	559.0	0.044	0.038	11.760	10.362	1.6398E-05	1.7262E-05	-0.444
35	311.0	559.8	0.053	0.047	11.755	10.357	2.0145E-05	2.1206E-05	-0.985
36	311.7	561.0	0.099	0.087	11.745	10.349	3.7253E-05	3.9217E-05	-0.500
37	312.7	562.8	0.254	0.224	11.732	10.338	5.6095E-05	1.0117E-04	0.089
38	313.4	564.1	0.813	0.716	11.723	10.329	3.0717E-04	3.2340E-04	0.000
39	313.2	563.7	0.832	0.733	11.725	10.332	3.1431E-04	3.3092E-04	-0.663
40	314.1	565.4	0.973	0.858	11.713	10.321	3.6818E-04	3.8555E-04	-0.699
41	313.4	564.1	1.152	1.015	11.722	10.329	4.3533E-04	4.533E-04	-0.403
42	314.5	566.1	1.313	1.157	11.708	10.316	4.9683E-04	5.2312E-04	-0.128
43	315.1	567.1	1.097	0.967	11.700	10.309	4.1559E-04	4.3760E-04	0.203
44	315.0	567.0	0.949	0.836	11.701	10.310	3.5355E-04	3.7838E-04	0.181
45	308.8	552.2	0.817	0.720	11.810	10.406	3.0640E-04	3.2245E-04	0.509
46	314.0	565.3	0.706	0.623	11.714	10.321	2.6721E-04	2.8134E-04	0.152
47	313.9	565.0	0.783	0.690	11.716	10.323	2.9620E-04	3.1186E-04	0.139
48	-0.0	-0.0	*****	*****	*****	*****	3.1000E-02	3.2300E-02	0.000
49	313.5	564.2	0.750	0.661	11.722	10.328	2.8343E-04	2.9862E-04	0.142
50	313.2	563.8	0.770	0.679	11.725	10.331	2.9095E-04	3.0632E-04	0.137

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0317E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIC I AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.2624E C6 2.0671E C6 0.914 9.14 1211.7 1.5-COE C6 C.3048 1-COO TEST NO. 158
 MACH 5.10 6.9588E C5 2.0871E C6 3.000 119.72 2181.1 554.75 1.0000 1.0000 MAW/MT 1.0000
 PT(ATM) TT(DEC KI) FT(LJULF/KG) RS(METER) PAM/MT
 PT(PSI) TT(DEC KI) MI(NTU/LBP) RS(FT) MAW/MT
 C(SIM/CM2) (SIBTU/FT2-SEC) ST(C.907) ST(O.874) TIME(SEC)

CHAN	T/C	TR(DEC KI)	TR(DEC R)	C(M/CP2)	C(FTU/FT2-SEC)	(SIBTU/FT2-SEC)	ST(C.907)	ST(O.874)	TIME(SEC)
51	85	309.7	557.4	-0.011	-0.010	10.678	-4.0172E-06	-4.2267E-06	1.119
52	86	310.3	558.5	0.010	0.009	10.671	3.7548E-06	3.9928E-06	-0.138
53	87	310.4	558.8	0.042	0.055	12.109	2.3101E-05	2.4907E-05	0.239
54	88	312.2	562.1	0.237	0.209	12.084	8.8070E-05	9.2677E-05	0.382
55	89	313.2	563.8	0.902	0.795	12.072	10.637	3.5355E-04	0.198
56	71	310.4	558.7	0.016	0.014	12.110	10.670	6.2544E-06	1.872
57	72	310.2	558.5	0.017	0.015	12.111	10.671	6.7198E-06	1.652
58	72	310.6	559.0	0.012	0.011	12.107	10.668	4.8274E-06	1.362
59	74	310.5	559.7	0.031	0.027	12.102	10.666	1.2050E-05	1.236
60	75	311.6	560.8	0.328	0.325	12.094	10.656	1.0899E-05	0.392
61	76	312.2	561.9	3.061	0.053	12.088	10.649	2.2543E-05	0.535
62	77	312.6	563.0	0.067	0.059	12.078	10.642	2.4760E-05	0.242
63	78	314.0	565.2	0.123	0.108	12.061	10.628	4.8161E-05	0.233
64	79	315.1	567.1	0.203	0.179	12.047	10.615	7.5625E-05	0.209
65	80	316.5	569.8	0.789	0.694	12.027	10.598	2.9444E-04	0.022
66	81	318.2	572.7	1.014	0.694	12.006	10.579	3.7979E-04	-0.489
67	82	319.2	574.6	1.301	1.146	11.591	10.566	4.8759E-04	-0.112
68	83	318.1	572.6	1.030	0.908	12.007	10.579	3.8574E-04	0.404
69	84	320.8	577.4	0.917	0.808	11.971	10.548	3.4447E-04	0.044
70	85	321.2	578.2	0.802	0.707	11.965	10.543	3.0132E-04	0.013
71	84	321.2	578.4	0.746	0.663	11.963	10.541	2.8046E-04	0.016
72	87	321.5	579.4	0.752	0.663	11.954	10.535	2.8294E-04	0.059
73	88	323.1	581.5	0.701	0.618	11.941	10.521	2.6396E-04	0.019
74	89	324.1	583.4	0.773	0.681	11.927	10.509	2.9163E-04	0.014
75	90	324.0	583.2	0.628	0.729	11.928	10.511	3.1204E-04	0.023

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.9998E-01 (SLUGS/FT2-SEC)

PROBE NO. 3

PRELIMINARY DATA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. ***
 PACH 35/PIETER REL LENGTH(PETER) FT(ATM) TT(CEG K) PT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 2.6225E C6 2.32C1E C6 0.914 8.22 1127.3 1.1916E C6 0.3042 1.000 RUN NO. 20
 PACH REFFT REL LENGTH(FT) PT(PSI) TT(CEG R) H(TBM/LP) RS(FT) HAM/MI CONSTANT 107 211
 5.10 7.9336E C5 2.32C1E C6 3.000 120.78 2029.2 512.41 1.0000 1.000

CHAN	T/C	H/W/T	C/L/S	F/MS(1.000)	M/MS(0.907)	H/MS(0.874)	CHN	T/C	H/W/T	Q/C/S	M/MS(1.000)	M/MS(0.907)	M/MS(0.874)
1	1	C.262	C.CC8	C.C086	0.0055	0.C104	14	14	C.264	0.0594	0.C594	0.C080	0.0716
2	2	C.263	C.C154	C.C194	C.C222	G.0234	15	15	0.264	0.0677	0.0677	0.0774	0.0816
3	3	C.264	C.0587	C.0587	0.C672	0.0708	16	16	0.262	0.0037	0.0037	0.0042	0.0045
4	4	C.264	C.C660	C.0860	0.0795	C.0796	17	17	0.262	0.0037	0.0037	0.0042	0.0045
5	5	0.264	C.0761	0.C761	0.0871	0.0918	18	18	0.263	0.0093	0.0093	0.0107	0.0113
6	6	C.265	C.0830	C.C830	0.C95C	0.1001	19	19	0.263	0.0192	0.0192	0.0220	0.0232
7	7	C.265	C.0885	C.0889	0.1018	0.1073	20	20	0.264	0.0598	0.0598	0.0604	0.0721
8	8	C.265	C.C849	0.0845	0.0972	0.1024	21	61	0.264	0.0156	C.0156	0.0179	0.0189
9	9	C.265	C.C753	C.C753	0.0862	0.0908	22	62	0.263	0.0061	0.0061	0.0070	0.0074
10	10	C.265	C.C632	C.C632	0.C724	0.0763	23	63	0.263	0.0032	0.0032	0.0037	0.0039
11	11	C.265	C.C638	C.C638	C.C731	0.0770	24	64	0.262	0.0015	0.C015	0.0017	0.0018
12	12	0.265	C.0656	C.C656	C.0751	0.0792	25	64	0.262	0.0015	0.C015	0.0017	0.0018
13	13	0.265	C.C614	C.C614	0.C7C2	0.0741			0.262	0.0015	0.C015	0.0017	0.0018

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA ***

PACH RE/METER REL LENGTH(METER) P(TIATM) T(IDEG K) F(TJGULE/KG) RS(METER) HAM/HT TEST NO. 158
 5-10 2-6C25E C6 2-3801E C6 C-914 3-22 1127.3 1-1916E C6 0-3048 1-000 1-000 RUN NO. 20
 MACH RE/FT REL LENGTH(IN) P(PSI) T(IDEG R) F(LB/LBM) R(SIET) HAM/HT
 5-10 7-5234E C5 2-3801E C6 3-000 120.78 2059.2 1-000C 1-000

CHAN	T/C	T(IDEG K)	T(IDEG R)	C(M/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	S(TIC-907)	ST(I0-874)	TIME(SEC)
1	1	211.4	560.4	0.094	0.083	10.935	9.639	3.6059E-05	3.8637E-05	0.012
2	2	212.4	562.4	0.212	0.167	10.925	9.626	8.2419E-05	8.6873E-05	0.212
3	3	213.1	563.6	0.641	0.565	10.916	9.618	2.4949E-04	2.6320E-04	0.613
4	4	213.5	564.4	0.720	0.634	10.910	9.613	2.8062E-04	2.9581E-04	-0.213
5	5	213.8	564.8	0.830	0.731	10.907	9.611	3.2370E-04	3.4122E-04	-0.544
6	6	214.2	565.8	0.904	0.797	10.902	9.606	3.5298E-04	3.7210E-04	-0.463
7	7	214.2	565.6	0.969	0.854	10.901	9.606	3.7877E-04	3.9876E-04	-0.258
8	8	214.7	566.5	0.925	0.815	10.894	9.599	3.6109E-04	3.8067E-04	0.092
9	9	214.8	566.6	0.820	0.722	10.894	9.599	3.2019E-04	3.3755E-04	0.094
10	10	214.4	566.0	0.589	0.607	10.890	9.603	2.6893E-04	2.8351E-04	0.007
11	11	214.5	566.2	0.696	0.613	10.897	9.602	2.7162E-04	2.8635E-04	0.015
12	12	214.6	566.3	0.715	0.630	10.894	9.601	2.7904E-04	2.9414E-04	0.110
13	13	214.3	565.8	0.669	0.589	10.900	9.604	2.6106E-04	2.7521E-04	0.091
14	14	213.8	564.8	0.648	0.571	10.907	9.611	2.5281E-04	2.6828E-04	0.073
15	15	213.3	563.5	0.738	0.651	10.913	9.616	2.8783E-04	3.0340E-04	0.074
16	16	210.7	558.6	0.041	0.036	10.953	9.631	1.5891E-05	1.6709E-05	-0.012
17	17	210.5	558.9	0.040	0.036	10.951	9.629	1.5724E-05	1.6572E-05	0.002
18	18	211.5	560.7	0.102	0.090	10.936	9.636	3.9722E-05	4.1866E-05	0.107
19	19	212.1	561.9	0.210	0.185	10.929	9.629	8.1661E-05	8.6072E-05	0.357
20	20	212.7	562.8	0.683	0.575	9.922	9.622	2.5423E-04	2.6797E-04	0.046
21	21	212.5	563.2	0.171	0.150	9.919	9.621	6.6546E-05	7.0138E-05	-0.207
22	22	212.6	563.6	0.067	0.0	10.923	9.625	2.6113E-05	2.7524E-05	-0.415
23	23	211.7	561.0	0.035	0.1	10.935	9.626	1.3756E-05	1.4498E-05	-0.115
24	24	211.4	560.5	0.017	0.15	10.939	9.639	6.5024E-06	6.8532E-06	0.012
25	25	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1325E-01 (SLUGS/FT2-SEC)

PROBE NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER PUFFETT FIELD CALIF. *** PRELIMINARY DATA ***												
MACH	REL	Q/QS	H/H(1.000)	M/H(0.907)	F/F(0.874)	CHAN	T/C	M/H(HT)	Q/QS	M/H(1.000)	M/H(0.907)	M/H(0.874)
5.10	2.5100E C6	2.2952E C6	3.000	0.914	8.22	1151.8	1.2200E 06	0.3048	0.3048	1.000	1.000	1.000
MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TI(DEC K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	RUM NO.		
5.10	7.8500E C6	2.2952E C6	3.000	120.78	2073.3	524.64	1.0000	1.000	158	20		
26	0.0000	0.0000	0.0000	0.0000	39	39	0.0495	0.0566	0.0596			
27	0.0000	0.0000	0.0000	0.0000	40	40	0.0678	0.0775	0.0817			
28	0.0000	0.0000	0.0000	0.0000	41	41	0.0692	0.0791	0.0832			
29	0.0014	0.0014	0.0016	0.0016	42	42	0.0841	0.0841	0.0962			0.1014
30	0.0000	0.0000	0.0000	0.0000	43	43	0.0763	0.0873	0.0920			0.0920
31	-0.0000	-0.0000	-0.0000	-0.0000	44	44	0.0682	0.0780	0.0822			0.0822
32	-0.0406	-0.0406	-0.0491	-0.0491	45	45	0.0579	0.0662	0.0697			0.0697
33	0.0001	0.0001	0.0001	0.0001	46	46	0.0514	0.0588	0.0619			0.0619
34	0.0007	0.0007	0.0007	0.0007	47	47	0.0571	0.0653	0.0688			0.0688
35	0.0022	0.0022	0.0026	0.0026	48	48	0.0524	0.0599	0.0631			0.0631
36	0.0049	0.0049	0.0056	0.0056	49	49	0.0524	0.0599	0.0623			0.0623
37	0.0124	0.0124	0.0142	0.0142	50	50	0.0545	0.0623	0.0656			0.0656
38	0.0442	0.0442	0.0506	0.0506	50	50	0.0545	0.0623	0.0656			0.0656

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

WACH DE/METER REL LENGTH(METER) P(TIATM) TT(DEC KI) HT(JOULE/KG) PS(METER) HAM/HT TEST NO. 158
 5.10 2.51CC C6 2.292E C6 0.914 8.22 1151.8 1-220E C6 0.3048 1-CCO 1-CCO RUN NO. 20
 PACH RE/FT REL LENGTH(FT) P(TI PSI) TT(DEC R) MI(BTU/LBM) RS(FT) HAM/RT
 5.10 7.650E C5 2.2552E C6 3-CCO 120.70 2073.3 574.64 1.0000 1.0000

CHAN	T/C	Tm(DEC KI)	Tm(DEC R)	(L/M/CM2)	(BTU/FT2-SEC)	CS(M/CM2)	(S(FTU/FT2-SEC)	SI(0.907)	SI(0.874)	TIME(SEC)
26	26	-C.C	-C.C	0.0000	0.0000	0.0000	0.0000	3.330E-02	3.330E-02	0.090
27	27	-C.C	-C.C	0.0000	0.0000	0.0000	0.0000	3.330E-02	3.330E-02	0.090
28	28	-C.C	-C.C	0.0000	0.0000	0.0000	0.0000	3.330E-02	3.330E-02	0.090
29	29	313.4	560.5	0.015	0.014	11.289	9.947	5.818E-06	6.1961E-03	-0.562
30	30	-C.C	-C.C	0.0000	0.0000	0.0000	0.0000	3.330E-02	3.330E-02	0.090
31	31	310.6	559.1	-0.000	-0.000	11.301	9.958	-1.2308E-07	-1.2308E-07	19.987
32	32	310.2	562.4	-0.449	-0.396	11.054	9.740	-1.7561E-04	-1.8522E-04	0.633
33	33	311.2	560.2	0.001	0.001	11.292	9.950	2.4654E-07	2.5973E-07	-44.524
34	34	311.5	561.3	0.007	0.006	11.284	9.943	2.6688E-06	2.8114E-06	-5.004
35	35	312.2	562.0	0.025	0.022	11.279	9.938	9.0904E-06	1.0209E-05	-1.028
36	36	312.5	563.1	0.035	0.048	11.271	9.941	2.1054E-05	2.2181E-05	-0.132
37	37	312.8	564.8	0.140	0.123	11.258	9.920	5.3578E-05	5.6450E-05	0.157
38	38	314.3	565.7	0.498	0.439	11.252	9.914	1.9107E-04	2.0132E-04	0.074
39	39	314.5	565.3	0.557	0.491	11.255	9.917	2.1377E-04	2.2223E-04	-0.429
40	40	315.0	567.0	0.762	0.672	11.242	9.906	2.9278E-04	3.0929E-04	-0.317
41	41	312.5	565.0	0.779	0.688	11.257	9.919	2.9868E-04	3.1467E-04	-0.451
42	42	314.5	566.8	0.946	0.833	11.243	9.907	3.6323E-04	3.8279E-04	-0.168
43	43	315.4	567.8	0.857	0.735	11.236	9.901	3.2554E-04	3.4724E-04	0.117
44	44	315.4	567.6	0.786	0.675	11.237	9.901	2.7454E-04	3.1036E-04	0.114
45	45	307.5	553.5	0.657	0.579	11.342	9.994	2.5003E-04	2.6332E-04	0.406
46	46	314.5	564.1	0.578	0.519	11.249	9.912	2.2188E-04	2.3378E-04	0.095
47	47	314.3	565.8	0.643	0.561	11.251	9.914	2.4667E-04	2.5990E-04	0.093
48	48	-C.C	-C.C	0.0000	0.0000	0.0000	0.0000	3.330E-02	3.330E-02	0.090
49	49	314.1	565.3	0.589	0.519	11.254	9.917	2.2606E-04	2.3818E-04	0.075
50	50	313.8	564.9	0.613	0.549	11.258	9.920	2.3521E-04	2.4782E-04	0.111

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0981E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

AERONAUTICAL AERIALISTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***												
MACH	R./PIETER	REL	LENGTH (PETER)	PT (ATM)	TTL (EE K)	HT (Joule/Kg)	RS (METER)	HAM/HT	TEST NO.			
5.10	2.4228E C6	2.2227E C6	0.914	8.22	1170.4	1.2417E 06	0.3048	1.300	158			
MACH	RE/FT	REL	LENGTH (IFT)	PT (PSI)	TTL (DEG R)	HT (GTL/LRP)	RS (FT)	HAM/HT	RUN NO.			
5.10	7.4456E C5	2.2237E C6	3.000	120.78	2106.7	533.54	1.0000	1.000	20			
CHAN	T/C	Q/QS	H/MS(1.000)	H/MS(0.907)	H/PS(0.874)	CFAN	T/C	HM/HT	U/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
51	65	C.CCC3	0.0003	0.0003	0.0003	64	79	0.255	0.0133	0.0133	0.0151	0.0150
52	66	C.CC12	0.0012	0.0013	0.0014	65	80	0.255	0.0463	0.0463	0.0530	0.0558
53	67	C.CC24	0.0024	0.0027	0.0029	66	81	0.256	0.0552	0.0552	0.0635	0.0668
54	68	C.C147	0.0147	0.0168	0.0177	67	82	0.257	0.0751	0.0751	0.0859	0.0905
55	69	C.0533	0.0533	0.0609	0.0641	68	83	0.256	0.0724	0.0724	0.0827	0.0871
56	70	-C.CC11	-0.0011	-0.0013	-0.0014	69	84	0.258	0.0642	0.0642	0.0735	0.0774
57	71	-C.CC07	-0.0007	-0.0009	-0.0009	70	85	0.259	0.0561	0.0561	0.0642	0.0676
58	72	-C.CC09	-0.0009	-0.0010	-0.0011	71	86	0.260	0.0531	0.0531	0.0607	0.0640
59	73	C.CC02	0.0002	0.0003	0.0003	72	87	0.260	0.0528	0.0528	0.0604	0.0636
60	74	C.C612	0.0012	0.0014	0.0015	73	88	0.262	0.0479	0.0479	0.0548	0.0578
61	75	C.CC22	0.0022	0.0025	0.0026	74	89	0.263	0.0530	0.0530	0.0607	0.0639
62	76	C.CC41	0.0041	0.0047	0.0049	75	90	0.263	0.0534	0.0534	0.0611	0.0644
63	77	C.CC64	0.0064	0.0072	0.0073							
63	78	0.254	C.CC64	0.0064	0.0073							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARMS RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 2.4428E C6 2.2337E C6 C.914 R-22 TT(DEC K) H(IJULLE/KG) RS(METER) MAM/MT TEST NO. 158
 PACH 7.4458E C5 2.2337E C6 3.000 LENGTH(PETER) PT(BYP) TT(DEC K) H(IJULLE/KG) RS(METER) MAM/MT RUN NO. 20
 REL LENGTH(C6) 2.2337E C6 C.914 R-22 TT(DEC K) H(IJULLE/KG) RS(METER) MAM/MT
 REL LENGTH(PT) 120.78 TT(DEC K) H(IJULLE/KG) RS(METER) MAM/MT
 REL LENGTH(C6) 2.2337E C6 3.000 LENGTH(PT) 120.78 TT(DEC K) H(IJULLE/KG) RS(METER) MAM/MT
 REL LENGTH(C6) 2.2337E C6 3.000 LENGTH(PT) 120.78 TT(DEC K) H(IJULLE/KG) RS(METER) MAM/MT

CHAN	T/C	TM(DEC K)	TM(DEC R)	W(CP2)	(BTU/FT2-SEC)	CS(M/CM2)	CS(FTM/FT2-SEC)	ST(C-07)	ST(C-074)	TIME(SEC)
51	65	310.6	555.1	0.003	0.003	11.567	10.192	1.2608E-06	5.3268E-06	0.583
52	66	311.3	560.3	0.013	0.012	11.558	10.184	5.0818E-06	5.3313E-06	-0.380
53	67	311.2	560.2	0.028	0.025	11.559	10.185	1.0503E-05	1.1060E-05	-1.098
54	68	313.0	563.4	0.169	0.149	11.535	10.164	6.4136E-05	6.7545E-05	0.299
55	69	313.7	564.7	0.414	0.541	11.526	10.156	2.3273E-04	2.4511E-04	0.023
56	71	311.2	560.1	-0.013	-0.012	11.559	10.185	-4.9716E-06	-5.2346E-06	1.720
57	72	311.4	560.5	-0.009	-0.008	11.556	10.183	-3.2675E-06	-3.4409E-06	4.070
58	73	311.6	560.9	-0.010	-0.009	11.554	10.180	-3.8156E-06	-4.0181E-06	4.584
59	74	312.0	561.7	0.003	0.002	11.548	10.175	9.9488E-07	1.0477E-06	-14.999
60	75	312.4	562.4	0.014	0.012	11.542	10.170	5.3200E-06	5.6026E-06	-3.179
61	76	313.0	563.5	0.025	0.022	11.534	10.163	9.4309E-06	9.9322E-06	-2.282
62	77	313.4	564.1	0.047	0.042	11.530	10.159	1.7895E-05	1.8846E-05	-0.175
63	78	314.3	565.8	0.074	0.065	11.517	10.148	2.8054E-05	2.9547E-05	-0.307
64	79	314.7	566.5	0.153	0.134	11.512	10.144	5.7889E-05	6.0973E-05	0.201
65	80	315.7	568.3	0.533	0.470	11.498	10.132	2.0240E-04	2.1220E-04	-0.148
66	81	316.5	570.5	0.637	0.562	11.482	10.117	2.4247E-04	2.5542E-04	-0.285
67	82	317.8	572.0	0.862	0.759	11.471	10.108	3.2819E-04	3.4574E-04	-0.536
68	83	316.5	565.8	0.831	0.733	11.488	10.122	3.1611E-04	3.3299E-04	0.169
69	84	319.4	574.9	0.736	0.648	11.449	10.088	2.8066E-04	2.9570E-04	-0.107
70	85	320.7	577.2	0.641	0.565	11.432	10.074	2.4509E-04	2.5825E-04	-0.135
71	86	321.2	578.1	0.607	0.535	11.426	10.068	2.3203E-04	2.4450E-04	-0.102
72	87	321.8	579.2	0.602	0.531	11.418	10.061	2.3055E-04	2.4295E-04	-0.359
73	88	323.4	582.1	0.546	0.481	11.396	10.042	2.0941E-04	2.2069E-04	-0.169
74	89	324.6	584.3	0.603	0.532	11.380	10.027	2.3165E-04	2.4416E-04	-0.079
75	90	324.5	584.2	0.608	0.535	11.381	10.028	2.3331E-04	2.4590E-04	-0.097

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0726E-01 (SLUGS/FT2-SEC)

PROBE AC. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH	REL	W/VS	M/VS(1.000)	M/VS(0.907)	M/VS(0.874)	CHAN	T/C	F/M/HT	Q/L5	M/VS(1.000)	M/VS(0.907)	M/VS(0.874)	
5.10	7.6459E C5	2.2536E C6	3.000	119.30	2059.0	520.69				1.0000	1.000		
	RE/METER	REL LENGTH(METER)	PI(ATM)	TI(DEC K)	PI(JOULE/KG)					RS(METER)	MAM/HT	TEST NO. 158	
	2.50E C6	2.2536E C6	C.914	3.12	1143.9	1.108E C6				0.3048	1.000	RUN NO. 21	
	RE/FT	REL LENGTH(FT)	PI(PSI)	TI(DEC R)	PI(10/LRP)					RS(FT)	MAM/HT	CONTRACT NO. 211	
	7.6459E C5	2.2536E C6	3.000	119.30	2059.0	520.69				1.0000	1.000		
CHAN	T/C	F/M/HT	W/VS	M/VS(1.000)	M/VS(0.907)	M/VS(0.874)	CHAN	T/C	F/M/HT	Q/L5	M/VS(1.000)	M/VS(0.907)	M/VS(0.874)
1	1	C.257	C.0123	C.0141	C.0148	14	14	0.259	0.0381	0.0561	0.0642	0.0676	
2	2	C.258	C.0313	C.0357	0.0377	15	15	0.258	0.0623	0.0623	0.0712	0.0750	
3	3	C.255	C.0658	C.0752	0.0793	16	16	0.256	0.0035	0.0035	0.0040	0.0042	
4	4	C.255	C.0514	0.0588	0.0619	17	17	0.256	0.0044	0.0044	0.0051	0.0051	
5	5	C.255	C.0474	0.0542	0.0572	18	18	0.257	0.0121	0.0121	0.0138	0.0146	
6	6	C.260	C.0628	C.0714	0.0756	19	19	0.258	0.0267	0.0267	0.0305	0.0321	
7	7	C.259	C.0311	C.0354	0.0374	20	20	0.258	0.0591	0.0591	0.0676	0.0711	
8	8	C.260	C.0539	0.1074	0.1132	21	21	0.258	0.0202	0.0202	0.0231	0.0243	
9	9	C.260	C.0811	0.0927	0.0977	22	22	0.258	0.0089	0.0089	0.0101	0.0107	
10	10	C.255	C.0669	C.0765	C.0806	23	23	0.257	0.0100	0.0100	0.0114	0.0120	
11	11	C.255	C.0653	0.0747	0.0787	24	24	0.256	0.0043	0.0043	0.0049	0.0052	
12	12	C.259	C.0670	0.0767	C.0808	25	25	C.000	*****	*****	*****	*****	
13	13	C.255	C.0591	0.0676	0.0712								

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 5.10 2.5C83E C6 REL LENGTH(PETER) PT(ATM) TT(CEG K) WT(JOULE/KG) RS(METER) HAW/HT TEST NC. 5805
 MBCM 7.8453E C5 2.2536E C6 0.914 8.12 1143.9 1.2108E C6 0.3048 1.000 RUN NO. 21
 F.10 7.8453E C5 2.2536E C6 119.30 2059.0 520.69 1.0000 1.000 HAW/HT

CHAN	T/C	Tk(CEG K)	Tk(CEG R)	G(W/CM2)	W(BTU/FT2-SEC)	QSI(W/CM2)	CS(BTU/FT2-SEC)	ST(0.874)	TIME(SEC)
1	1	310.2	558.5	C.137	C.121	11.123	9.801	5.3221E-05	5.6070E-05
2	2	311.5	560.6	C.347	C.306	11.106	9.786	1.3516E-04	1.4240E-04
3	3	312.2	562.2	C.730	C.643	11.096	9.777	2.8443E-04	2.9969E-04
4	4	312.8	563.0	C.570	C.502	11.090	9.772	2.2226E-04	2.3619E-04
5	5	312.8	563.0	C.463	C.463	11.090	9.771	2.0506E-04	2.1607E-04
6	6	313.4	564.1	C.696	C.613	11.082	9.765	2.7137E-04	2.8596E-04
7	7	311.8	561.3	C.345	C.304	11.102	9.782	1.3432E-04	1.4152E-04
8	8	313.5	564.2	C.441	C.417	11.081	9.764	4.0610E-04	4.2792E-04
9	9	313.4	564.0	C.899	C.792	11.082	9.765	3.5058E-04	3.6942E-04
10	10	312.8	562.7	C.742	C.654	11.092	9.773	2.8913E-04	3.0466E-04
11	11	312.5	562.6	C.725	C.639	11.093	9.774	2.8245E-04	2.9761E-04
12	12	312.6	562.6	C.744	C.655	11.092	9.774	2.8590E-04	3.0546E-04
13	13	312.3	562.2	C.656	C.578	11.096	9.777	2.5562E-04	2.6934E-04
14	14	311.8	561.3	C.623	C.549	11.103	9.783	2.4274E-04	2.5576E-04
15	15	311.6	559.8	C.692	C.610	11.114	9.793	2.6916E-04	2.8358E-04
16	16	308.8	555.5	C.039	C.034	11.145	9.820	1.5021E-05	1.5823E-05
17	17	308.7	555.7	C.049	C.043	11.144	9.819	1.9123E-05	2.0144E-05
18	18	310.2	558.3	C.135	C.119	11.124	9.802	5.2335E-05	5.5136E-05
19	19	311.1	560.0	C.296	C.261	11.112	9.791	1.1526E-04	1.2144E-04
20	20	311.6	560.9	C.656	C.578	11.105	9.785	2.5546E-04	2.6916E-04
21	21	311.3	560.3	C.224	C.198	11.110	9.789	8.7360E-05	9.2041E-05
22	22	310.7	559.3	C.099	C.087	11.117	9.796	3.8320E-05	4.0371E-05
23	23	305.5	557.2	C.111	C.098	11.133	9.809	4.3134E-05	4.5440E-05
24	24	308.5	555.5	C.048	C.042	11.142	9.817	1.8568E-05	1.9560E-05
25	25	C.C	0 C	*****	*****	*****	*****	*****	*****

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0833E-01 (SLUGS/FT2-SEC)

PRCBE NC. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.5C56E C6 2.2511E C6 0.914 8.12 1144.6 1.2117E C6 0.3048 1.000 HAM/HT TEST NO. 158
 MACH 5.10 7.6372E C5 2.2911E C6 3.000 119.30 2060.3 521.05 1.0000 1.0000 HAM/HT RUN NO. 21

CHAN	I/C	TW(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(DEG K)	ST(DEG R)	TIME(SEC)
26	26	0.0	0.0	*****	*****	*****	*****	3.2770E-02	3.2770E-02	0.000
27	27	C.C	C.C	*****	*****	*****	*****	3.2770E-02	3.2770E-02	0.000
28	28	C.C	C.C	*****	*****	*****	*****	3.2770E-02	3.2770E-02	0.000
29	29	62.8	113.1	0.000	0.000	14.432	12.717	4.6375E-09	4.8237E-09	*****
30	30	0.0	0.0	*****	*****	*****	*****	3.2770E-02	3.2770E-02	0.000
31	31	308.4	555.0	0.032	0.021	11.159	9.832	1.2399E-05	1.3061E-05	0.261
32	32	305.3	556.7	0.061	0.053	11.147	9.822	2.3483E-05	2.4738E-05	0.486
33	33	309.9	557.9	0.057	0.051	11.138	9.814	2.2309E-05	2.3502E-05	0.419
34	34	310.8	559.4	0.072	0.063	11.126	9.804	2.8008E-05	2.9508E-05	0.773
35	35	311.4	560.5	0.107	0.094	11.119	9.797	4.1442E-05	4.3662E-05	0.720
36	36	312.2	562.0	0.158	0.139	11.107	9.787	6.1394E-05	6.4687E-05	0.444
37	37	313.2	563.8	0.327	0.288	11.094	9.776	1.2735E-04	1.3419E-04	0.248
38	38	313.5	565.0	1.002	0.883	11.085	9.767	3.9093E-04	4.1195E-04	0.089
39	39	313.1	563.6	1.074	0.947	11.096	9.777	4.1886E-04	4.4135E-04	-0.449
40	40	314.2	566.1	1.137	1.001	11.077	9.760	4.4889E-04	4.6778E-04	-0.548
41	41	312.9	563.2	1.337	1.178	11.099	9.779	5.2117E-04	5.4915E-04	-0.230
42	42	314.3	565.7	1.417	1.248	11.080	9.763	5.5322E-04	5.8298E-04	-0.020
43	43	314.6	566.3	1.109	0.978	11.076	9.759	4.3339E-04	4.5671E-04	0.369
44	44	314.2	565.6	0.931	0.820	11.081	9.764	3.6348E-04	3.8303E-04	0.362
45	45	311.5	560.6	0.830	0.732	11.117	9.796	3.2309E-04	3.4040E-04	0.104
46	46	312.4	562.4	0.683	0.602	11.104	9.784	2.6804E-04	2.8031E-04	0.342
47	47	312.2	562.0	0.765	0.674	11.107	9.787	2.9801E-04	3.1399E-04	0.327
48	48	311.7	561.1	0.712	0.627	11.114	9.793	2.7692E-04	2.9176E-04	0.340
49	49	311.6	560.8	0.726	0.639	11.116	9.795	2.8239E-04	2.9752E-04	0.344
50	50	311.0	559.9	0.762	0.671	11.123	9.801	2.9611E-04	3.1197E-04	0.327

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0823E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	T(DEC K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	2.434E C6	2.2434E C6	0.914	8.12	1159.0	1.2283E 06	0.3048	1.000	158
MACH	REL	LENGTH(F)	PL(PST)	T(DEC R)	FT(FT/LB)	RS(FT)	PAM/HT	RUN NO.	
5.10	7.4716E C5	2.2434E C6	3.000	119.30	2086.1	528.22	1.0000		

CHAN	T/C	H/W/HT	W/QS	H/W/HT	T/C	CHAN	T/C	H/W/HT	W/QS	H/W/HT	T/C
51	65	C.0029	C.0029	C.0035	64	79	0.258	0.0136	0.0136	0.0156	0.0164
52	66	-C.0121	-C.0121	-0.0145	65	80	C.258	0.0478	0.0478	C.0546	0.0575
53	67	C.0062	C.0062	0.0075	66	81	C.259	0.0385	0.0385	0.0440	0.0463
54	68	C.0238	0.0238	0.0286	67	82	0.259	0.0752	0.0752	0.0860	0.0906
55	69	C.0825	0.0825	0.0993	68	83	0.259	0.0732	0.0732	0.0837	0.0882
56	70	-C.0004	-C.0004	-0.0005	69	84	C.259	0.0628	0.0628	0.0719	0.0737
57	71	C.0014	C.0014	0.0016	70	85	0.260	0.0569	0.0569	0.0651	0.0686
58	72	C.0034	0.0034	0.0041	71	86	C.260	0.0569	0.0569	0.0651	0.0686
59	73	C.0040	0.0040	0.0048	72	87	C.250	0.0531	0.0531	0.0608	0.0640
60	74	C.0045	0.0045	0.0045	73	88	0.261	0.0522	0.0522	0.0597	0.0629
61	75	C.0038	C.0038	0.0045	74	89	0.262	0.0571	0.0571	0.0653	0.0688
62	76	C.0056	0.0056	0.0058	75	90	0.261	0.0602	0.0602	C.0602	0.0725
63	77	C.0059	0.0059	0.0067							
64	78	C.0098	0.0098	0.0112							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.4234E C6 2.2434E C6 C.914 8.12 1159.0 1.2289E C6 C.3C48 1.0000
 MACH 5.10 7.4778E C5 2.2434E C6 3.000 119.30 2086.1 528.22
 RS(METER) PT(ATM) TT(DEG K) TT(JOULE/KG) RS(METER) HAM/HT TEST NC. 158
 C.3C48 1.0000
 RS(FT) HAM/HT TEST NC. 21
 1.0000

CH#N	T/C	TA(DEC K)	TA(DEC R)	C(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(10.874)	ST(10.907)	ST(10.874)	TIME(SEC)
51	65	300.1	554.6	0.032	0.029	11.366	10.015	1.3235E-05	1.2568E-05	1.3235E-05	1.292
52	66	309.1	556.8	-0.121	-0.121	11.250	10.001	-5.5664E-05	-5.5664E-05	-5.5664E-05	1.638
53	67	309.7	557.4	0.062	0.062	11.346	9.977	2.8561E-05	2.7119E-05	2.8561E-05	0.967
54	68	311.6	558.1	0.279	0.257	11.321	9.975	1.0520E-04	1.0367E-04	1.0520E-04	0.435
55	69	312.3	558.1	0.933	0.822	11.311	9.966	3.5978E-04	3.5978E-04	3.5978E-04	0.136
56	70	308.8	555.4	-0.004	-0.004	11.360	10.010	-1.6333E-06	-1.6333E-06	-1.6333E-06	-4.571
57	71	308.8	555.4	0.015	0.014	11.343	9.994	5.8971E-06	5.8971E-06	5.8971E-06	-2.119
58	72	308.8	557.8	0.039	0.034	11.328	9.981	1.4946E-05	1.4946E-05	1.4946E-05	-0.524
59	73	311.7	559.8	0.045	0.040	11.318	9.973	1.7333E-05	1.7333E-05	1.7333E-05	-0.659
60	74	312.6	561.1	0.042	0.037	11.307	9.962	1.6387E-05	1.6387E-05	1.6387E-05	-0.799
61	75	313.3	562.7	0.064	0.056	11.298	9.955	2.4552E-05	2.4552E-05	2.4552E-05	-0.065
62	76	313.3	563.5	0.067	0.059	11.292	9.949	2.7441E-05	2.7441E-05	2.7441E-05	-0.174
63	77	314.5	564.7	0.111	0.097	11.282	9.941	4.2744E-05	4.2744E-05	4.2744E-05	-0.160
64	78	315.0	566.0	0.153	0.135	11.274	9.934	5.9412E-05	5.9412E-05	5.9412E-05	-0.568
65	79	315.5	567.0	0.538	0.474	11.268	9.928	2.0846E-04	2.0846E-04	2.0846E-04	-0.930
66	80	316.2	568.0	0.847	0.746	11.258	9.920	1.6790E-04	1.6790E-04	1.6790E-04	-2.921
67	81	316.5	569.2	0.847	0.746	11.255	9.917	3.2634E-04	3.2634E-04	3.2634E-04	-0.792
68	82	316.5	569.7	0.824	0.726	11.255	9.917	3.1948E-04	3.1948E-04	3.1948E-04	-0.138
69	83	317.1	570.5	0.707	0.623	11.246	9.910	2.7425E-04	2.7425E-04	2.7425E-04	-0.073
70	84	317.7	571.8	0.640	0.564	11.239	9.904	2.4842E-04	2.4842E-04	2.4842E-04	-0.037
71	85	318.5	573.2	0.639	0.563	11.229	9.894	2.4854E-04	2.4854E-04	2.4854E-04	0.386
72	86	318.3	573.0	0.597	0.528	11.231	9.896	2.3190E-04	2.3190E-04	2.3190E-04	-0.062
73	87	319.7	575.5	0.585	0.516	11.212	9.879	2.2790E-04	2.2790E-04	2.2790E-04	-0.066
74	88	320.6	577.1	0.639	0.563	11.200	9.869	2.4914E-04	2.4914E-04	2.4914E-04	-0.225
75	89	319.4	574.9	0.675	0.595	11.217	9.883	2.6263E-04	2.6263E-04	2.6263E-04	-0.323

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0626E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 22
 CONSTANT SET 21

HAW/HT 1.000
 HAW/NT 1.000
 RS(METER) C.3048
 RS(FT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF.
 TT(DEC K) 1153.2
 TT(DEC R) 2075.8
 HT(LB/IN) 525.35

REL LENGTH(METER) PT(ATM) 8.08
 REL LENGTH(FT) PT(PSI) 118.73
 REL LENGTH(METER) 3.000
 REL LENGTH(FT) 3.000

REL LENGTH(METER) 2.2516E C6
 REL LENGTH(FT) 2.2516E C6

CHAN	T/C	H/W/FT	Q/QS	F/F5(1.000)	M/HS(0.907)	M/HS(0.874)	CHAN	T/C	F/W/HT	L/QS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)
1	1	C.254	C.0270	C.0270	0.0308	0.0325	14	14	C.256	0.0519	0.0519	0.0593	0.0625
2	2	C.256	C.0411	C.0411	0.0470	0.0495	15	15	0.255	0.0588	0.0588	0.0672	0.0708
3	3	0.256	C.0682	0.0682	0.0780	0.0821	16	16	0.253	0.0038	0.0044	0.0044	0.0046
4	4	C.257	C.0415	0.0415	0.0475	0.0500	17	17	C.253	0.0041	C.0041	C.0047	0.0050
5	5	C.257	C.0682	C.0682	0.0775	0.0821	18	18	0.254	0.0240	0.0240	0.0275	0.0289
6	6	C.257	C.0186	C.0786	0.0899	0.0947	19	19	C.255	0.0359	0.0359	0.0410	0.0432
7	7	C.257	C.1414	0.1414	0.1616	0.1702	20	20	0.256	0.0552	0.0552	0.0631	0.0665
8	8	C.257	C.1075	0.1075	0.1225	0.1295	21	61	0.255	0.0266	C.0266	C.0304	0.0320
9	9	C.257	C.0865	C.0865	0.0993	0.1046	22	62	C.254	0.0266	C.0266	0.0204	0.0321
10	10	C.256	C.0675	0.0675	0.0771	0.0812	23	63	0.253	0.0271	0.0271	0.0309	0.0326
11	11	0.256	C.0642	0.0642	0.0732	0.0773	24	64	0.253	0.0106	0.0106	0.0122	0.0128
12	12	C.256	C.0642	0.0642	0.0734	0.0773	25	25	0.253	0.0106	0.0106	0.0122	0.0128
13	13	0.256	C.0551	0.0551	0.0630	0.0664			0.253	0.0106	0.0106	0.0122	0.0128

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH RE/METER REL LENGTH(METER) PT(ATM) TT(SEC K) FT(LB/LB/KG) RS(ETER) FAW/HT TEST NO. 158
 5.10 2.4624E C6 2.2516E C6 0.514 9.08 1153.2 1.2217E 06 C.3048 1.0000 RUN NO. 22
 MACH RE/FT REL LENGTH(FT) PI(PSI) TT(DEC R) FT(LB/LB) RS(FT) HAW/HT
 5.10 7.5053E C5 2.2516E 06 3.000 119.73 2075.8 525.35 1.0000

CHAN	T/C	TM(DEC K)	TM(DEC R)	Q(W/CM2)	G(BTU/FT2-SEC)	CS(W/CM2)	LS(BTU/FT2-SEC)	STIO(907)	STIO(874)	TIME(SEC)
1	1	309.6	557.2	0.303	0.267	11.239	9.903	1.1765E-04	1.2391E-04	-0.649
2	2	311.1	559.5	0.461	0.406	11.219	9.885	1.7518E-04	1.8874E-04	-0.798
3	3	312.0	561.6	0.765	0.674	11.207	9.875	2.9733E-04	3.1322E-04	-2.286
4	4	312.5	562.5	0.465	0.410	11.200	9.868	1.8104E-04	1.9072E-04	-5.364
5	5	312.6	562.7	0.763	0.673	11.198	9.867	2.9705E-04	3.1294E-04	-3.361
6	6	313.2	563.7	0.880	0.775	11.191	9.861	3.4274E-04	3.6109E-04	-0.352
7	7	313.0	563.5	1.582	1.394	11.193	9.862	6.1612E-04	6.4509E-04	0.110
8	8	312.0	563.5	1.203	1.060	11.193	9.862	4.6953E-04	4.9361E-04	0.068
9	9	312.6	563.0	0.973	0.857	11.196	9.866	3.7860E-04	3.9886E-04	0.011
10	10	311.8	561.2	0.756	0.667	11.209	9.877	2.9400E-04	3.0981E-04	-0.019
11	11	311.6	560.5	0.719	0.634	11.212	9.879	2.7960E-04	2.9459E-04	0.040
12	12	311.6	560.8	0.720	0.634	11.212	9.879	2.7981E-04	2.9476E-04	0.040
13	13	311.4	560.5	0.618	0.545	11.215	9.882	1.4026E-04	2.5309E-04	-0.065
14	14	310.8	559.5	0.582	0.513	11.222	9.888	2.2615E-04	2.3822E-04	-0.043
15	15	310.2	558.6	0.661	0.582	11.229	9.894	2.5642E-04	2.7009E-04	-0.011
16	16	307.7	553.8	0.043	0.038	11.264	9.925	1.6710E-05	1.7598E-05	-9.731
17	17	207.5	554.1	0.046	0.041	11.261	9.923	1.7976E-05	1.8931E-05	-9.186
18	18	205.5	557.1	0.270	0.238	11.239	9.903	1.0469E-04	1.1027E-04	-0.816
19	19	310.7	559.2	0.403	0.355	11.224	9.890	1.5632E-04	1.6445E-04	-0.901
20	20	311.4	560.5	0.619	0.546	11.215	9.882	2.4065E-04	2.5350E-04	-2.929
21	21	310.7	559.2	0.298	0.263	11.224	9.890	1.1578E-04	1.2196E-04	-0.142
22	22	309.4	556.8	0.300	0.264	11.242	9.905	1.1611E-04	1.2229E-04	-0.450
23	23	308.2	554.7	0.305	0.269	11.257	9.919	1.1803E-04	1.2430E-04	-0.290
24	24	307.4	553.3	0.120	0.106	11.268	9.929	4.6389E-05	4.8853E-05	-0.265
25	25	-C.C	-C.O	*****	*****	*****	*****	*****	*****	*****

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0607E-01 (SLUGS/FT2-SEC)

FCRE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/FEET	REL	F/MS(I.CC0)	F/MS(O.907)	F/MS(O.874)	CHAN	T/C	M/MT	Q/QS	H/MS(I.000)	H/MS(O.997)	H/MS(O.874)	TEST NO.	RUN NO.
5.10	2.415CE C4	2.211SE C5	0.514	9.08	1165.4	39	39	0.254	0.1401	0.1401	0.1600	0.1600	158	22
MACH	REL/FT	REL	LENGTH(FT)	PT(P/S)	TT(DEG R)	TT(DEG K)	PT(JOULE/KG)	RS(METER)	RS(FT)	HAM/MT	HAM/MT	HAM/MT		
5.10	7.373IE C5	2.2119E C6	3.000	118.73	2097.7	41	41	0.254	0.1727	0.1727	0.1973	0.1973		
						42	42	C.255	0.1827	0.1827	0.2088	0.2199		
						43	43	C.255	0.1231	0.1231	0.1406	0.1481		
						44	44	0.255	0.1002	0.1002	0.1145	0.1206		
						45	45	0.0110	C.0832	C.0832	0.0951	0.1001		
						46	46	0.0132	0.0672	0.0672	0.0768	0.0809		
						47	47	0.0157	0.0701	0.0701	0.0801	0.0844		
						48	48	0.0205	0.0635	0.0635	0.0726	0.0764		
						49	49	0.0277	0.0613	0.0613	C.0701	0.0738		
						50	50	0.0503	0.0627	0.0627	C.0716	0.0754		
								0.1467						
								0.1284						
								0.1284						
								0.1284						

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRIMARY DATA ***
 MACH 5.10 RE/METER 2.4193E C6 REL 2.2119E C6 LENGTH(METER) PT(ATM) T1(DEG K) MT(JOULE/KG) AS(METER) HAM/HT (EST NO.) 158
 PACH 5.10 7.3731E C5 2.2119E C6 3.000 118.73 2097.7 533.44 RS(FT) HAM/HT 1.000 RUN NO. 22
 2.4193E C6 3.914 8.08 1165.4 1.2358E C6 0.3048 1.000
 7.3731E C5 3.000 118.73 2097.7 533.44 1.0000 1.000

CHAN	T/C	T(DEG K)	T(DEG R)	W(CM/CM2)	G(LBTU/FT2-SEC)	CS(W/CM2)	CS(RTU/FT2-SEC)	CS(HTU/FT2-SEC)	ST(10.874)	TIME(SEC)
26	-C.C	-C.C	-C.C	*****	*****	*****	*****	*****	3.235E-02	0.000
27	-C.C	-C.C	-C.C	*****	*****	*****	*****	*****	3.235E-02	0.000
28	-C.C	-C.C	-C.C	*****	*****	*****	*****	*****	3.235E-02	0.000
29	-C.C	-C.C	-C.C	*****	*****	*****	*****	*****	3.235E-02	0.000
30	-C.C	-C.C	-C.C	*****	*****	*****	*****	*****	3.235E-02	0.000
31	2C7.2	552.5	552.5	0.054	0.047	11.443	10.083	2.0532E-05	2.1617E-05	-3.393
32	3C8.C	554.4	554.4	0.105	0.092	11.432	10.074	4.0224E-05	4.2352E-05	-1.494
33	2C8.E	555.5	555.5	0.125	0.110	11.424	10.066	4.8127E-05	5.0676E-05	-1.411
34	3C5.5	557.1	557.1	0.157	0.139	11.412	10.056	6.0305E-05	6.3713E-05	-0.933
35	21C.2	558.3	558.3	0.205	0.181	11.404	10.048	7.8947E-05	8.3136E-05	-0.786
36	211.1	560.C	560.C	0.276	0.243	11.391	10.037	1.0636E-04	1.1201E-04	-0.777
37	312.4	562.3	562.3	0.500	0.441	11.374	10.022	1.9319E-04	2.0347E-04	-0.463
38	213.2	563.8	563.8	1.459	1.285	11.363	10.012	5.6355E-04	5.9357E-04	-0.404
39	212.7	562.8	562.8	1.593	1.404	11.370	10.019	6.1504E-04	6.4778E-04	-0.694
40	214.C	565.2	565.2	1.803	1.589	11.353	10.003	6.9733E-04	7.3452E-04	-0.540
41	212.5	562.4	562.4	1.964	1.730	11.373	10.021	7.5809E-04	7.9493E-04	-0.231
42	213.7	564.6	564.6	2.075	1.820	11.357	10.007	8.0216E-04	8.4492E-04	0.038
43	213.7	564.7	564.7	1.398	1.232	11.356	10.006	5.4041E-04	5.6922E-04	0.249
44	213.3	563.9	563.9	1.139	1.003	11.363	10.012	4.6365E-04	4.8365E-04	0.203
45	211.5	561.4	561.4	0.947	0.835	11.381	10.028	3.6541E-04	3.8484E-04	0.176
46	211.5	560.6	560.6	0.766	0.675	11.387	10.035	2.9521E-04	3.1090E-04	0.155
47	211.3	560.3	560.3	0.799	0.704	11.389	10.035	3.0786E-04	3.2422E-04	0.145
48	210.8	559.4	559.4	0.724	0.638	11.396	10.041	2.7806E-04	2.9367E-04	0.144
49	210.7	559.2	559.2	0.699	0.616	11.397	10.042	2.6528E-04	2.8358E-04	0.107
50	210.3	558.6	558.6	0.714	0.629	11.402	10.047	2.7503E-04	2.8963E-04	0.114

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0442E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACH REVMETER REL LENGTH(METER) PI(ATM) TI(DEC K) HT (Joule/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 2.3600 C5 2.1500 C5 0.914 8.08 1182.5 1.2580 C6 0.3048 1.000 HAM/HT RUN NO. 22
 PACH REVMETER REL LENGTH(FT) PI(PST) TI(DEC R) H(BTU/LBM) RS(FI) HAM/HT
 5.10 7.1532 C5 2.1500 C6 3.000 119.73 2128.4 340.01 1.0000 1.000

CPAN	T/C	HW/HT	C/S	H/HS(1.000)	H/HS(10.907)	F/HS(10.874)	CHAM	T/C	MW/HT	Q/QS	H/HS(1.000)	H/HS(10.907)	H/HS(10.874)
51	65	C.246	C.0122	C.0140	C.0147	64	79	0.254	0.0367	0.0420	0.0420	0.0442	
52	66	C.246	C.0151	C.0173	C.0182	65	80	0.254	0.1221	0.1395	0.1395	0.1469	
53	67	C.247	C.0209	0.0238	0.0251	66	81	0.255	0.1364	0.1558	0.1558	0.1611	
54	68	C.245	C.0316	0.0389	0.0420	67	82	0.255	0.1608	0.1837	0.1837	0.1935	
55	69	C.250	C.0320	0.0335	0.0356	68	83	0.254	0.1144	0.1307	0.1307	0.1376	
56	71	C.247	C.0347	0.0353	0.0356	69	84	0.254	0.0907	0.1036	0.1036	0.1091	
57	72	C.250	C.0165	0.0188	0.0198	70	85	0.255	0.0734	0.0838	0.0838	0.0883	
58	72	C.251	C.0148	0.0169	0.0178	71	86	0.255	0.0661	0.0756	0.0756	0.0796	
59	74	C.252	C.0147	0.0168	0.0177	72	87	0.255	0.0636	0.0726	0.0726	0.0765	
60	75	C.253	C.0140	0.0160	0.0168	73	88	0.256	0.0562	0.0642	0.0642	0.0676	
61	76	C.253	C.0157	0.0180	0.0189	74	89	0.257	0.0614	0.0702	0.0702	0.0740	
62	77	C.253	C.0193	0.0210	0.0221	75	90	0.257	0.0626	0.0716	0.0716	0.0754	
63	78	0.254	C.0257	0.0294	0.0309								

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 5.10 2.36CE C6 2.158CE C6 0.914 8.08 1182.5 1.2558E C6 0.3048 1.000
 PACH 5.10 7.1532E C5 2.1580E C6 3.060 118.73 2128.4 540.01 1.0000 1.0000
 REL LENGTH(METER) PI(ATM) TI(DEG K) HT(JULLE/KG) RS(METER) MAM/HT
 REL LENGTH(FT) PI(PSI) TI(DEG R) HT(LB/FT) RS(FT) MAM/HT
 2.1580E C6 2.1580E C6 3.060 118.73 2128.4 540.01 1.0000 1.0000

CFAN	T/C	TI(DEG K)	TI(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(G-907)	ST(O-874)	TIME(SEC)
51	65	307.0	552.6	0.143	0.126	11.638	10.299	5.4300E-05	5.7152E-05	-0.321
52	64	308.1	554.5	0.177	0.156	11.674	10.287	6.7107E-05	7.0636E-05	-0.366
53	67	308.5	555.0	0.244	0.215	11.668	10.281	9.2596E-05	9.7468E-05	-0.524
54	68	311.0	555.8	0.600	0.529	11.635	10.252	2.2875E-04	2.4082E-04	-0.006
55	69	312.0	551.7	1.766	1.556	11.622	10.240	6.7410E-04	7.0973E-04	-0.067
56	71	308.5	555.3	0.055	0.048	11.668	10.281	2.0737E-05	2.1828E-05	-4.320
57	72	312.0	561.0	0.159	0.169	11.622	10.240	7.3017E-05	7.6876E-05	-1.055
58	73	313.8	564.5	0.171	0.151	11.598	10.219	6.5505E-05	6.8975E-05	-1.221
59	74	318.5	566.8	0.170	0.180	11.584	10.207	6.5191E-05	6.8649E-05	-1.024
60	75	315.7	568.2	0.162	0.143	11.573	10.197	6.2124E-05	6.5423E-05	-1.043
61	76	316.2	569.2	0.182	0.160	11.566	10.191	6.9830E-05	7.3540E-05	-0.834
62	77	316.6	569.8	0.212	0.187	11.561	10.187	8.1377E-05	8.5703E-05	-0.646
63	78	317.2	571.0	0.257	0.262	11.553	10.179	1.1412E-04	1.2019E-04	-0.497
64	79	317.5	571.6	0.424	0.374	11.549	10.176	1.6303E-04	1.7171E-04	-0.424
65	80	317.8	572.1	1.410	1.242	11.545	10.172	5.5180E-04	5.7054E-04	-0.401
66	81	318.5	573.3	1.573	1.386	11.536	10.165	6.0511E-04	6.3789E-04	-0.748
67	82	318.4	573.0	1.855	1.635	11.538	10.166	7.1344E-04	7.5145E-04	-0.167
68	83	317.5	572.2	1.320	1.163	11.544	10.172	5.0749E-04	5.3451E-04	0.086
69	84	317.8	572.1	1.347	0.922	11.545	10.172	4.0225E-04	4.2366E-04	0.029
70	85	318.2	572.8	0.841	0.746	11.540	10.168	3.2557E-04	3.4291E-04	-0.001
71	86	318.4	573.2	0.763	0.672	11.537	10.166	2.9350E-04	3.0914E-04	0.025
72	87	319.1	574.3	0.733	0.646	11.528	10.158	2.8210E-04	2.9715E-04	0.046
73	88	320.5	576.9	0.646	0.569	11.509	10.141	2.4920E-04	2.6251E-04	0.037
74	89	321.7	579.1	0.706	0.622	11.493	10.127	2.7269E-04	2.8728E-04	0.026
75	90	321.1	578.0	0.720	0.635	11.501	10.134	2.7788E-04	2.9274E-04	0.026

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0215E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

*** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 23
 CONSTANT 307211

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF.
 PACH 5.10 2.5258E C6 2.3096E C6 3.000 120.26 8.18 1144.6 1.2117E 06 0.3048 1.000
 REL LENGTH(METER) PI(ATM) TT(DEG K) WT(JOULE/KG) RS(METER) HAW/HT
 MACH 5.10 7.6588E C5 2.3096E C6 3.000 120.26 8.18 1144.6 1.2117E 06 0.3048 1.000
 REL LENGTH(FT) PI(PST) TT(DEG R) WT(LB/LBP) RS(FT) HAW/HT

CHAN	T/C	HM/HT	L/QS	M/HS(1.000)	W/HS(0.907)	F/HS(0.874)	CHAN	T/C	HM/HT	L/QS	M/HS(1.000)	H/MS(0.907)	H/MS(0.874)
1	1	0.257	C.0112	0.0112	0.0128	0.0135	11	11	0.259	0.0605	0.0685	0.0783	0.0125
2	2	C.258	C.04C5	0.04C5	0.0464	0.0488	12	12	0.259	0.0679	0.0679	0.0777	0.0118
3	3	C.259	C.0846	0.0846	0.0967	C.1019	13	13	0.259	0.0607	0.0694	0.0697	0.0731
4	4	0.259	C.0748	0.0748	0.0855	0.0901	14	14	0.259	0.0576	0.0659	0.0659	0.0694
5	5	0.259	C.0887	0.0887	0.1014	0.1069	15	15	0.258	0.0649	0.0649	0.0742	0.0782
6	6	C.26C	C.1124	C.1124	0.1285	0.1354	16	16	0.255	0.0041	0.0041	0.0047	0.0049
7	7	C.26C	C.1504	C.1504	0.1721	0.1813	17	17	0.255	0.0023	0.0023	0.0026	0.0027
8	8	C.26C	C.1139	0.1139	0.1303	0.1373	18	18	0.257	0.0104	0.0104	0.0119	0.0125
9	9	0.260	C.0924	0.0924	0.1057	0.1113	19	19	0.258	0.0324	0.0324	0.0370	0.0390
10	10	0.255	C.0718	0.0718	0.0821	0.0865	20	20	0.258	0.0738	0.0735	0.0843	0.0889

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 23

HAW/HT 1.000
 HAW/HT 1.000

RS(METER) 0.3048
 RS(FT) 1.0000

PT(ATM) 0.318
 PT(PSSI) 1.2117E-06

TI(CEG K) 1144.6
 TI(CEG K) 1.2117E-06

Q(W/CM2) 3.000
 Q(W/CM2) 2060.3

REL LENGTH(METER) 0.914
 REL LENGTH(FT) 3.000

TI(CEG K) 2.3098E-06
 TI(CEG K) 2.3098E-06

REL LENGTH(METER) 0.914
 REL LENGTH(FT) 3.000

CP-AM	T/C	TM(CEG K)	TM(CEG R)	Q(W/CM2)	C(8TU/FT2-SEC)	QS(W/CM2)	CS(8TU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	209.8	557.6	0.125	0.110	11.185	9.855	4.8238E-05	5.0817E-05	-2.608
2	2	211.2	560.1	0.453	0.399	11.166	9.839	1.7467E-04	1.8402E-04	-0.500
3	3	212.2	561.9	0.943	0.831	11.153	9.827	3.6429E-04	3.8303E-04	-1.331
4	4	212.7	562.8	0.834	0.735	11.146	9.821	3.2224E-04	3.3954E-04	-2.079
5	5	213.0	563.3	0.988	0.871	11.142	9.818	3.8209E-04	4.0260E-04	-2.153
6	6	213.5	564.3	1.251	1.103	11.135	9.811	4.8419E-04	5.1021E-04	-1.119
7	7	213.6	564.5	1.675	1.476	11.134	9.810	6.4819E-04	6.8303E-04	-0.247
8	8	213.5	565.0	1.268	1.117	11.130	9.807	4.9098E-04	5.1737E-04	0.144
9	9	212.8	564.8	1.028	0.906	11.131	9.808	3.9803E-04	4.1942E-04	0.101
10	10	213.0	563.5	0.300	0.705	11.141	9.817	3.0528E-04	3.2589E-04	0.045
11	11	212.5	563.1	0.763	0.672	11.144	9.819	2.9501E-04	3.1084E-04	0.015
12	12	212.8	563.1	0.757	0.667	11.144	9.819	2.9262E-04	3.0833E-04	0.058
13	13	212.8	562.7	0.676	0.596	11.147	9.822	2.6131E-04	2.7533E-04	-0.001
14	14	212.0	561.7	0.643	0.566	11.155	9.829	2.4819E-04	2.6150E-04	0.028
15	15	211.5	560.7	0.725	0.639	11.162	9.835	2.7968E-04	2.9467E-04	0.044
16	16	209.1	554.5	0.046	0.040	11.208	9.875	1.7564E-05	1.8501E-05	-1.699
17	17	207.8	554.1	0.025	0.022	11.211	9.878	9.7705E-06	1.0292E-05	-2.646
18	18	209.5	557.2	0.115	0.102	11.188	9.856	4.4757E-05	4.7150E-05	-2.732
19	19	210.8	559.4	0.362	0.319	11.171	9.844	1.3950E-04	1.4697E-04	-0.726
20	20	211.6	560.8	0.823	0.725	11.161	9.834	3.1778E-04	3.3482E-04	-1.438

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0991E-01 (SLUGS/FT2-SEC)

PROBE NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.3503E C6 2.1857E C6 3.000 120.26 2128.6 545.01 1.0000
 RE/METER REL C/GCS H/H/S(1.000) F/H/S(0.907) I/F/S(0.874) CHAN T/C HW/HT Q/QS H/H/S(1.000) H/H/S(0.907) H/H/S(0.874)
 LENGTH(METER) PT(ATM) TT(DEG X) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.10 2.3503E C6 2.1857E C6 3.000 120.26 2128.6 545.01 1.0000 0.3048 1.000 HAM/HT RUN NO. 23
 REL C/GCS H/H/S(1.000) F/H/S(0.907) I/F/S(0.874) CHAN T/C HW/HT Q/QS H/H/S(1.000) H/H/S(0.907) H/H/S(0.874)
 LENGTH(FT) PI(PSI) TT(DEG R) HT(LB/LBM) RS(FT) HAM/HT TEST NO. 158
 MACH 5.10 7.2856E C5 2.1857E C6 3.000 120.26 2128.6 545.01 1.0000 0.3048 1.000 HAM/HT RUN NO. 23

CHAN	T/C	FW/HT	C/GCS	H/H/S(1.000)	F/H/S(0.907)	I/F/S(0.874)	CHAN	T/C	HW/HT	Q/QS	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
21	81	C.249	C.0313	C.0313	C.0357	C.0376	39	39	0.251	0.1498	0.1710	0.1710	0.1801
22	62	C.248	C.0171	C.0171	C.0195	C.0206	40	40	0.252	0.1580	C.1804	C.1804	0.1900
23	62	C.247	C.0074	C.0074	0.0085	0.0089	41	41	0.251	0.1727	0.1972	0.1972	0.2077
24	84	0.247	C.0017	C.0017	0.0019	0.0020	42	42	0.252	0.1760	0.2010	0.2010	0.2116
25	26	*****	*****	*****	*****	*****	43	43	0.252	0.1218	0.1391	0.1391	0.1464
26	26	*****	*****	*****	*****	*****	44	44	0.252	0.0992	0.1133	0.1133	0.1193
27	27	*****	*****	*****	*****	*****	45	45	0.251	0.0829	0.0947	0.0947	0.0997
28	28	*****	*****	*****	*****	*****	46	46	0.251	0.0658	0.0751	0.0751	0.0791
29	29	*****	*****	*****	*****	*****	47	47	0.250	0.0713	0.0814	0.0814	0.0857
30	30	*****	*****	*****	*****	*****	48	48	0.250	0.0634	0.0723	0.0723	0.0762
31	31	0.247	C.0011	C.0011	0.0012	0.0013	49	49	0.250	0.0624	0.0712	0.0712	0.0750
32	32	0.247	C.0021	C.0021	0.0024	0.0025	50	50	0.250	0.0640	0.0731	0.0731	0.0770
33	33	C.247	C.0053	C.0053	C.0061	0.0064	51	65	0.247	0.0022	0.0025	0.0025	0.0027
34	34	C.248	C.0092	0.0092	0.0105	0.0111	52	66	0.247	0.0065	0.0074	0.0074	0.0078
35	35	C.248	C.0146	0.0146	0.0167	0.0176	53	67	0.248	0.0180	0.0206	0.0206	0.0216
36	34	0.249	C.0234	0.0234	0.0267	0.0282	54	68	0.250	0.0447	0.0457	0.0457	0.0457
37	37	C.250	C.0432	0.0432	C.0493	C.0519	55	69	0.251	0.1434	0.1637	0.1637	0.1724
38	38	0.251	C.1239	0.1239	0.1414	C.1489							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACF REYNOLDS REL LENGTH(METER) PT(ATM) TT(DEG K) WT(JOLLE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 2.3903E C6 2.1857E C6 0.914 8.18 1182.5 1.2558E C6 0.3046 1.000
 MACH RE/ET REL LENGTH(FT) FT(PSI) TT(CEC R) FT(LB) RS(LF) HAM/HT RUN NO. 23
 5.10 7.2856E C6 2.1857E C6 3.000 120.26 2128.4 540.01 1.0000 1.0000

CPAN	T/C	TIME(K)	TT(CEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	GS(W/CM2)	Q(STU/FT2-SEC)	GT(BTU/FT2-SEC)	ST(G.907)	ST(0.874)	TIME(SEC)
21	61	311.7	551.1	0.366	C.323	11.700	10.309	1.3793E-04	1.4521E-04	1.3793E-04	1.4521E-04	-3.034
22	62	310.4	558.7	0.201	0.177	11.718	10.325	7.5417E-05	7.9394E-05	7.5417E-05	7.9394E-05	-0.141
23	63	309.3	559.8	0.087	0.077	11.732	10.337	3.2708E-05	3.4430E-05	3.2708E-05	3.4430E-05	-0.340
24	64	308.8	559.9	0.020	0.018	11.739	10.343	7.4694E-06	7.8625E-06	7.4694E-06	7.8625E-06	-0.963
25	25	-C.C	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
26	26	-C.C	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
27	27	-C.C	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
28	28	-C.C	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
29	29	-C.C	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
30	30	-C.C	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
31	31	308.2	554.8	0.013	0.011	11.747	10.351	4.7278E-06	4.9764E-06	4.7278E-06	4.9764E-06	-1.445
32	32	308.7	555.7	0.025	0.022	11.740	10.345	9.3066E-06	9.7963E-06	9.3066E-06	9.7963E-06	-2.574
33	33	305.1	556.5	0.062	0.055	11.735	10.340	2.3434E-05	2.4668E-05	2.3434E-05	2.4668E-05	-1.102
34	34	309.5	557.9	0.108	0.095	11.724	10.330	4.0690E-05	4.2835E-05	4.0690E-05	4.2835E-05	-0.951
35	35	310.5	559.0	0.172	0.151	11.716	10.323	6.4508E-05	6.7911E-05	6.4508E-05	6.7911E-05	-0.835
36	36	311.5	560.7	0.274	0.242	11.703	10.312	1.0325E-04	1.0870E-04	1.0325E-04	1.0870E-04	-0.514
37	37	312.6	563.2	0.504	0.444	11.684	10.295	1.9025E-04	2.0031E-04	1.9025E-04	2.0031E-04	-0.126
38	38	313.6	564.9	1.446	1.274	11.672	10.285	5.4591E-04	5.7483E-04	5.4591E-04	5.7483E-04	-0.156
39	39	313.5	564.4	1.749	1.541	11.676	10.288	6.6026E-04	6.9522E-04	6.6026E-04	6.9522E-04	-0.357
40	40	314.8	566.7	1.842	1.623	11.659	10.273	6.9649E-04	7.3343E-04	6.9649E-04	7.3343E-04	-0.392
41	41	313.6	564.6	2.017	1.777	11.675	10.287	7.6129E-04	8.0160E-04	7.6129E-04	8.0160E-04	-0.138
42	42	314.5	566.9	2.092	1.806	11.657	10.272	7.7568E-04	8.1683E-04	7.7568E-04	8.1683E-04	0.051
43	43	315.3	567.5	1.419	1.250	11.653	10.268	5.3670E-04	5.6518E-04	5.3670E-04	5.6518E-04	0.255
44	44	314.5	566.9	1.156	1.019	11.657	10.271	4.3725E-04	4.6044E-04	4.3725E-04	4.6044E-04	0.203
45	45	313.7	564.6	0.968	0.853	11.674	10.286	3.6545E-04	3.8480E-04	3.6545E-04	3.8480E-04	0.172
46	46	313.4	563.0	0.768	0.677	11.678	10.290	2.8995E-04	3.0530E-04	2.8995E-04	3.0530E-04	0.139
47	47	313.2	563.7	0.833	0.734	11.681	10.292	3.1422E-04	3.3085E-04	3.1422E-04	3.3085E-04	0.162
48	48	312.7	562.9	0.741	0.653	11.687	10.298	2.7926E-04	2.9403E-04	2.7926E-04	2.9403E-04	0.148
49	49	312.6	562.7	0.729	0.643	11.689	10.299	2.7497E-04	2.8952E-04	2.7497E-04	2.8952E-04	0.144
50	50	312.4	562.2	0.749	0.660	11.692	10.302	2.8223E-04	2.9715E-04	2.8223E-04	2.9715E-04	0.159
51	65	308.4	555.2	0.026	0.023	11.744	10.348	9.7355E-06	1.0148E-05	9.7355E-06	1.0148E-05	0.868
52	66	305.2	556.5	0.077	0.067	11.734	10.340	2.8725E-05	3.0238E-05	2.8725E-05	3.0238E-05	-0.061
53	67	305.6	557.2	0.211	0.186	11.729	10.335	7.9393E-05	8.3576E-05	7.9393E-05	8.3576E-05	-0.060
54	68	312.1	561.8	0.523	0.460	11.695	10.305	1.9689E-04	2.0730E-04	1.9689E-04	2.0730E-04	0.063
55	55	313.3	563.9	1.675	1.476	11.679	10.291	6.3200E-04	6.6545E-04	6.3200E-04	6.6545E-04	0.003

FREE-STREAM DENSITY-VELOCITY PRODUCT * 2.0474E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 REWMETER REL LENGTH(METER) P(ATM) T(DEG K) HT(JOULE/KG) RS(METER) HAW/HT 1.000
 5.10 2.358E 06 2.1121E 06 0.514 8.18 1202.5 1.2839E 06 0.3048 1.000
 MACH REL LENGTH(FT) PI(PSI) T(DEG R) HT(BTU/LBM) RS(FT) HAW/HT 1.000
 5.10 7.0404E 05 2.1121E 06 3.000 120.26 2171.6 552.09 1.0000

CHAN	T/C	PM/HT	C/CS	H/HS(1.000)	F/PS(0.907)	F/PS(10.874)	CFAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	71	C.242	-C.C010	-0.0012	-0.0012	-0.0012	66	81	0.249	0.1242	0.1242	0.1418	0.1493
57	72	C.241	-C.C002	-0.0002	-0.0003	-0.0003	67	82	0.250	0.1442	0.1442	0.1646	0.1733
58	73	C.242	-C.C006	-0.0006	-0.0007	-0.0007	68	83	0.249	0.1016	0.1016	0.1159	0.1221
59	74	C.242	-C.C009	-0.0009	-0.0011	-0.0011	69	84	0.251	0.0889	0.0889	0.1015	0.1069
60	75	C.243	C.0018	0.0018	0.0021	0.0021	70	85	0.251	0.0757	0.0757	0.0864	0.0910
61	76	0.243	C.C033	0.0033	0.0039	0.0039	71	86	0.251	0.0660	0.0660	0.0753	0.0793
62	77	0.244	C.C063	0.0063	0.0078	0.0078	72	87	0.251	0.0601	0.0601	0.0686	0.0722
63	78	0.245	C.0167	C.C167	0.0190	0.0200	73	88	0.252	0.0534	0.0534	0.0610	0.0642
64	79	0.247	C.0288	C.0288	0.0328	0.0345	74	89	0.253	0.0631	0.0631	0.0721	0.0759
65	80	0.248	C.1043	0.1043	0.1190	0.1253	75	90	0.253	0.0634	0.0634	0.0724	0.0762

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.3056E C6 2.1121E C5 2.1121E C6 7.0404E C5
 RE/METER REL LENGTH(METER) PI(ATM) TI(DEG K) HT(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 MACH 5.10 7.0404E C5 2.1121E C6 2.1121E C6 7.0404E C5 2.1121E C6 7.0404E C5 2.1121E C6 7.0404E C5
 RE/FT REL LENGTH(FT) PI(PST) TI(CEG R) FT(BI/LBM) RS(FT) HAW/HT RUN NO. 23

CHAN	T/C	TI(CEG K)	TI(CEG R)	Q(LW/CM2)	Q(RTU/FT2-SEC)	QS(W/CM2)	CS(B(U)/FT2-SEC)	ST(I(0.907))	ST(O.874)	TIME(SEC)
56	71	308.8	555.8	-0.013	-0.011	12.083	10.647	-4.6321E-06	-4.8811E-06	0.910
57	72	309.7	555.6	-0.003	-0.002	12.085	10.648	-1.0894E-05	-1.0894E-05	2.968
58	73	308.9	556.1	-0.007	-0.006	12.081	10.645	-2.7284E-06	-2.8708E-06	2.488
59	74	309.4	556.9	-0.011	-0.009	12.075	10.640	-3.9633E-06	-4.1703E-06	3.787
60	75	310.2	558.4	0.021	0.019	12.063	10.630	7.8309E-06	8.2403E-06	-1.880
61	76	311.2	560.1	0.039	0.035	12.051	10.618	1.4631E-05	1.5397E-05	-1.849
62	77	312.0	561.6	0.082	0.072	12.040	10.608	3.0419E-05	3.2013E-05	-0.957
63	78	313.6	564.5	0.201	0.177	12.018	10.590	7.4591E-05	7.8507E-05	-0.327
64	79	315.2	567.3	0.345	0.304	11.998	10.572	1.2858E-04	1.3533E-04	-0.150
65	80	317.0	570.7	1.248	1.100	11.972	10.549	4.6624E-04	4.9082E-04	-0.216
66	81	319.7	573.7	1.484	1.308	11.950	10.530	5.5448E-04	5.8483E-04	-0.581
67	82	319.5	575.2	1.721	1.517	11.939	10.520	6.4474E-04	6.7883E-04	-0.126
68	83	318.0	572.4	1.215	1.071	11.960	10.538	4.5425E-04	4.7823E-04	0.403
69	84	320.3	576.5	1.061	0.935	11.929	10.511	3.9774E-04	4.1879E-04	0.062
70	85	320.6	577.0	0.902	0.795	11.926	10.508	3.3838E-04	3.5629E-04	0.057
71	86	320.6	577.2	0.787	0.693	11.924	10.507	2.9515E-04	3.1078E-04	0.056
72	87	321.1	577.9	0.716	0.631	11.919	10.502	2.6877E-04	2.8301E-04	-0.068
73	88	322.5	580.4	0.635	0.560	11.900	10.486	2.3833E-04	2.5150E-04	-0.133
74	89	323.7	582.7	0.750	0.661	11.883	10.470	2.8228E-04	2.9129E-04	-0.052
75	90	323.3	582.0	0.753	0.664	11.888	10.475	2.8351E-04	2.9858E-04	-0.133

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0157E-01 (SLUGS/FT2-SEC)

PROBE NO. J 3

*** PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF.

TEST HG. 158
RUN NO. 24
CONSTANT SET 2/1

MACH	RE/PIETER	REL	LENGTH(PIETER)	PT(ATM)	TT(DEC K)	PT(JCULE/KG)	RS(METER)	HAW/HT	TEST HG.
5.10	2.5C45E C6	2.29C2E C6	0.914	8.18	1150.4	1.2183E 06	0.3048	1.000	158
MACH	RE/FT	REL	LENGTH(FT)	PT(P/SI)	TT(DEC R)	MT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	7.6338E C5	2.2902E C6	3.000	120.26	2070.7	523.92	1.0000	1.000	24

CHAN	T/C	H/W/PT	Q/QS	H/MS(1.000)	H/HS(0.907)	H/MS(0.874)	CHAN	T/C	H/W/PT	Q/QS	H/MS(1.000)	H/HS(0.907)	H/MS(0.874)
1	1	0.257	0.0194	0.0194	0.0222	0.0234	11	11	0.258	0.0677	0.0677	0.0774	0.0816
2	2	0.258	0.0445	0.0445	0.0505	0.0536	12	12	0.258	0.0685	0.0685	0.0783	0.0825
3	3	0.258	0.0736	0.0736	0.0842	0.0887	13	13	0.258	0.0607	0.0607	0.0695	0.0732
4	4	0.259	0.0924	0.0924	0.0999	0.0932	14	14	0.258	0.0585	0.0585	0.0669	0.0704
5	5	0.259	0.0738	0.0738	0.0843	0.0889	15	15	0.257	0.0666	0.0666	0.0761	0.0802
6	6	0.259	0.0924	0.0924	0.1057	0.1114	16	16	0.255	0.0009	0.0009	0.0010	0.0011
7	7	0.259	0.1474	0.1474	0.1686	0.1777	17	17	0.255	0.0006	0.0006	0.0007	0.0008
8	8	0.259	0.1111	0.1111	0.1271	0.1339	18	18	0.257	0.0193	0.0193	0.0221	0.2233
9	9	0.259	0.0901	0.0901	0.1030	0.1085	19	19	0.257	0.0395	0.0395	0.0491	0.0475
10	10	0.259	0.0769	0.0769	0.0811	0.0855	20	20	0.258	0.0655	0.0655	0.0749	0.0789

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.5045E C6 2.2902E C6 0.914 8.18 1150.4 1.2183E C6 0.3048 1.000
 RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 MACH 5.10 7.6338E C5 2.2902E C6 3.000 120.26 2070.7 523.92 1.0000 1.000
 RE/FT REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LPM) RS(FT) HAW/HT RUN NO. 24

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	S(W/CM2)	S(BTU/FT2-SEC)	ST(C.907)	ST(I0.874)	TIME(SEC)
1	1	311.2	560.2	0.218	0.192	11.247	9.910	8.3829E-05	8.8310E-05	-1.205
2	2	312.4	562.3	0.500	0.441	11.232	9.897	1.9244E-04	2.0274E-04	-0.370
3	3	313.2	563.7	0.826	0.728	11.221	9.888	3.1835E-04	3.3540E-04	-1.830
4	4	313.6	564.5	0.588	0.518	11.216	9.883	2.2667E-04	2.3082E-04	-3.656
5	5	313.7	564.7	0.827	0.729	11.214	9.881	3.1887E-04	3.3597E-04	-2.865
6	6	314.3	565.7	1.036	0.713	11.207	9.875	3.9963E-04	4.2107E-04	-1.623
7	7	314.2	565.6	1.653	1.426	11.208	9.875	6.3753E-04	6.7174E-04	-0.247
8	8	314.4	565.5	1.245	1.097	11.205	9.874	4.8034E-04	5.0633E-04	0.154
9	9	314.3	565.7	1.009	0.889	11.207	9.875	3.8937E-04	4.1027E-04	0.108
10	10	313.6	564.5	0.796	0.701	11.215	9.882	3.0667E-04	3.2311E-04	0.067
11	11	313.5	564.2	0.760	0.669	11.218	9.884	2.9282E-04	3.0852E-04	0.044
12	12	313.5	564.3	0.768	0.677	11.218	9.884	2.9617E-04	3.1204E-04	0.118
13	13	313.3	564.0	0.582	0.601	11.220	9.886	2.6264E-04	2.7571E-04	0.047
14	14	312.8	563.1	0.657	0.579	11.226	9.892	2.5285E-04	2.6540E-04	0.087
15	15	312.3	562.1	0.748	0.659	11.233	9.898	2.8796E-04	3.0337E-04	0.115
16	16	309.7	557.5	0.010	0.009	11.267	9.928	3.9677E-06	4.1793E-06	-31.478
17	17	309.5	557.9	0.007	0.006	11.265	9.926	2.7050E-06	2.8494E-06	-43.804
18	18	311.2	560.2	0.217	0.191	11.247	9.910	8.3507E-05	8.7970E-05	-1.114
19	19	312.2	562.0	0.443	0.391	11.234	9.899	1.7065E-04	1.7979E-04	-0.411
20	20	312.8	563.0	0.735	0.648	11.227	9.892	2.8308E-04	2.9824E-04	-1.927

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0911E-01 (SLUGS/FT2-SEC)

PROBE NC. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
 RE/METER 2.4112E C6
 REL 2.2048E C6
 RE/FT 7.3452E C5

PT(ATM) .018
 PT(PST) 120.26
 LENGTH(METER) 3.914
 LENGTH(FT) 3.000

TI(DEC K) 1176.4
 TI(DEC R) 2117.6
 HT(JOULE/KG) 1.2487E C6
 HT(FTU/LBM) 536.97

R(METER) 0.3048
 R(SI) 1.0000
 HAM/HT 1.0000
 HAM/HT 1.0000

TEST NO. 158
 RUN NO. 24

CHAN	T/C	H/W/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	61	0.251	C.0627	0.0627	0.0715	0.0753	39	39	0.253	0.1337	0.1337	0.1527	0.1608
22	62	0.251	C.0227	0.0227	0.0259	0.0273	40	40	0.253	0.1515	0.1515	0.1731	0.1823
23	63	0.250	C.0151	0.0151	0.0173	0.0182	41	41	0.253	0.1674	0.1674	0.1911	0.2013
24	64	0.250	C.0052	0.0052	0.0059	0.0062	42	42	0.253	0.1758	0.1758	0.2089	0.2116
25	65	0.250	0.0000	0.0000	0.0000	0.0000	43	43	0.254	0.1159	0.1159	0.1370	0.1442
26	66	0.250	0.0000	0.0000	0.0000	0.0000	44	44	0.254	0.0985	0.0985	0.1125	0.1185
27	67	0.250	0.0000	0.0000	0.0000	0.0000	45	45	0.253	0.0824	0.0824	0.0941	0.0991
28	68	0.250	0.0000	0.0000	0.0000	0.0000	46	46	0.253	0.0659	0.0659	0.0753	0.0792
29	69	0.250	0.0000	0.0000	0.0000	0.0000	47	47	0.252	0.0691	0.0691	0.0789	0.0831
30	70	0.250	0.0000	0.0000	0.0000	0.0000	48	48	0.252	0.0626	0.0626	0.0715	0.0753
31	71	0.245	C.0026	0.0026	0.0030	0.0031	49	49	0.252	0.010	0.010	0.0697	0.0734
32	72	0.250	C.0070	0.0070	0.0080	0.0084	50	50	0.252	0.0614	0.0614	0.0701	0.0738
33	73	0.250	C.0094	0.0094	0.0107	0.0113	51	65	0.250	0.0049	0.0049	0.0056	0.0059
34	74	0.251	C.0127	0.0127	0.0145	0.0153	52	66	0.250	0.0100	0.0100	0.0114	0.0120
35	75	0.251	C.0164	0.0164	0.0187	0.0197	53	67	0.250	0.0221	0.0221	0.0252	0.0266
36	76	0.252	C.0220	0.0220	0.0251	0.0265	54	68	0.252	0.0453	0.0453	0.0517	0.0544
37	77	0.252	C.0395	0.0395	0.0451	0.0475	55	69	0.253	0.1453	0.1453	0.1659	0.1747
38	78	0.253	C.1157	0.1157	0.1322	0.1392							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 5.10 2.4112E C6 2.2043E C6 0.914 8.18 1176.4 1.2487E C6 1.000 1.000 1.000 1.000 1.000 1.000

MACH 5.10 7.3452E C5 2.2048E C6 3.000 120.26 2117.6 536.97 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000

CHAN	T/C	TN(DEC K)	TN(DEC R)	REL	Q(LW/CM2)	G(BTU/FT2-SEC)	CS(W/CM2)	QS(BTU/FT2-SEC)	RS(METER)	ST(0.874)	TIME(SEC)
21	61	312.4	562.4	0.641	0.225	10.225	2.7516E-04	2.8976E-04	0.3048	1.000	-0.215
22	62	311.5	561.5	0.263	11.611	10.231	9.9618E-05	1.0489E-04	0.3048	1.000	-0.332
23	63	311.1	560.1	0.176	11.622	10.240	6.8361E-05	6.9872E-05	0.3048	1.000	-0.220
24	64	310.7	559.2	0.060	11.628	10.246	2.2789E-05	2.3994E-05	0.3048	1.000	-0.709
25	26	-0.0	-0.0	*****	*****	*****	*****	*****	0.3048	1.000	0.000
26	26	-0.0	-0.0	*****	*****	*****	*****	*****	0.3048	1.000	0.000
27	27	-0.0	-0.0	*****	*****	*****	*****	*****	0.3048	1.000	0.000
28	28	-0.0	-0.0	*****	*****	*****	*****	*****	0.3048	1.000	0.000
29	29	-0.0	-0.0	*****	*****	*****	*****	*****	0.3048	1.000	0.000
30	28	-0.0	-0.0	*****	*****	*****	*****	*****	0.3048	1.000	0.000
31	31	310.1	558.3	0.030	11.635	10.252	1.1490E-05	1.2097E-05	0.3048	1.000	-2.423
32	32	310.7	559.2	0.082	11.628	10.246	3.0796E-05	3.2425E-05	0.3048	1.000	-1.463
33	33	311.0	559.7	0.109	11.624	10.242	4.1215E-05	4.3396E-05	0.3048	1.000	-1.374
34	34	311.6	560.8	0.147	11.616	10.235	5.5754E-05	5.8705E-05	0.3048	1.000	-1.219
35	35	312.0	561.6	0.190	11.610	10.230	7.1984E-05	7.5797E-05	0.3048	1.000	-1.026
36	36	312.7	562.9	0.255	11.600	10.221	9.5639E-05	1.0176E-04	0.3048	1.000	-0.748
37	37	313.7	564.7	0.457	11.587	10.210	1.7326E-04	1.8246E-04	0.3048	1.000	-0.359
38	38	314.4	566.0	1.340	11.578	10.201	5.0819E-04	5.3519E-04	0.3048	1.000	-0.361
39	39	314.1	565.4	1.549	11.582	1.205	5.8719E-04	6.1832E-04	0.3048	1.000	-0.605
40	40	315.2	567.3	1.753	11.568	1.193	6.6555E-04	7.0094E-04	0.3048	1.000	-0.500
41	41	314.1	565.3	1.938	11.583	10.206	7.3496E-04	7.7399E-04	0.3048	1.000	-0.182
42	42	315.2	567.3	2.034	11.568	10.193	7.7233E-04	8.1340E-04	0.3048	1.000	0.059
43	43	315.5	567.8	1.386	11.564	10.189	5.2457E-04	5.5458E-04	0.3048	1.000	0.262
44	44	315.2	567.4	1.139	11.567	10.192	4.3260E-04	4.5561E-04	0.3048	1.000	0.222
45	45	314.2	565.6	0.954	11.581	10.204	3.6175E-04	3.8097E-04	0.3048	1.000	0.195
46	46	313.5	565.1	0.763	11.584	10.207	2.8936E-04	3.0473E-04	0.3048	1.000	0.170
47	47	313.8	564.8	0.800	11.587	10.209	3.0338E-04	3.1948E-04	0.3048	1.000	0.152
48	48	313.4	564.2	0.726	11.591	10.213	2.7503E-04	2.8962E-04	0.3048	1.000	0.160
49	49	313.4	564.0	0.707	11.592	10.214	2.6798E-04	2.8220E-04	0.3048	1.000	0.144
50	50	313.1	563.6	0.711	11.596	10.217	2.6941E-04	2.8370E-04	0.3048	1.000	0.138
51	51	310.3	558.6	0.057	11.632	10.250	2.1531E-05	2.2669E-05	0.3048	1.000	0.009
52	52	311.1	560.0	0.116	11.622	10.241	4.3744E-05	4.6058E-05	0.3048	1.000	-0.768
53	53	311.2	560.1	0.257	11.621	10.240	9.7063E-05	1.0220E-04	0.3048	1.000	-0.243
54	54	313.1	563.6	0.525	11.595	10.217	1.9874E-04	2.0928E-04	0.3048	1.000	0.049
55	55	314.0	565.1	1.683	11.584	10.207	6.3804E-04	6.7192E-04	0.3048	1.000	-0.020

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0555E-01 (SLUGS/FT2-SEC)

PRCBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH		RE/METER	REL LENGTH(MET R)	PT(ATM)	TI(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.			
5.10		2.3389E C6	2.1387E C6	8.18	1197.7	1.2735E C6	0.3048	1.0000	158			
MACH		RE/FT	REL LENGTH(FT)	PT(PSI)	TI(DEG R)	HT(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.			
5.10		7.1288E C5	2.1387E C6	120.26	2155.9	547.65	1.0000	1.0000	24			
CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHRN	Y/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	71	C.0046	0.0046	0.0053	0.0055	66	81	0.248	0.0978	0.0978	0.1116	0.1174
57	72	C.0126	C.0126	0.0143	0.0151	67	82	0.249	0.1325	0.1325	0.1512	0.1592
58	73	C.0137	C.0137	0.0156	0.0164	68	83	0.248	0.1031	0.1031	0.1177	0.1239
59	74	C.0123	0.0123	0.0141	0.0148	69	84	0.250	0.0862	0.0862	0.0984	0.1036
60	75	C.0123	0.0123	0.0140	0.0147	70	85	0.251	0.0735	0.0735	0.0839	0.0883
61	76	C.0128	0.0128	0.0146	0.0154	71	86	0.251	0.0671	0.0671	0.0766	0.0807
62	77	C.0122	0.0122	0.0139	0.0146	72	87	0.252	0.0628	0.0628	0.0717	0.0755
63	78	C.0176	0.0176	0.0200	0.0211	73	88	0.253	0.0593	0.0593	0.0677	0.0713
64	75	C.0266	0.0266	0.0304	0.0320	74	89	0.254	0.0640	0.0640	0.0731	0.0770
65	80	C.0908	C.0908	0.1036	0.1090	75	90	0.254	0.0672	0.0672	0.0768	0.0809

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.285E C6 2.1387E 06 0.914 8.18 1197.7 1.2735E 06 0.3048 1.000 1.000
 MACH RE/FT REL LENGTH(MFT) PI(PSI) TI(CEG K) FT(8TU/L0M) RS(FT) HAM/HT RUN NO. 24
 5.10 7.1288E C5 2.1387E 06 3.000 120.26 2155.8 547.65 1.000C 1.000

CHAM	T/C	TN(DEC K)	TN(LEG R)	Q(W/CM2)	C(8TU/FT2-SEC)	C5(W/CM2)	C5(8TU/FT2-SEC)	CS(8TU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
56	71	310.4	558.8	0.055	0.048	11.935	10.516	2.0482E-05	2.1557E-05	-1.753	
57	72	310.5	558.5	0.150	0.132	11.934	10.515	5.5527E-05	5.8861E-05	-0.627	
58	73	310.5	559.6	0.163	0.144	11.929	10.511	6.0812E-05	6.4004E-05	-0.533	
59	74	311.2	560.1	0.147	0.130	11.925	10.507	5.4802E-05	5.7679E-05	-0.804	
60	75	311.6	561.0	0.146	0.129	11.919	10.502	5.4496E-05	5.7359E-05	-0.959	
61	76	312.1	561.8	0.153	0.134	11.912	10.496	5.6961E-05	5.9955E-05	-1.081	
62	77	312.4	562.4	0.145	0.128	11.906	10.493	5.4104E-05	5.6949E-05	-1.337	
63	78	313.1	563.6	0.209	0.184	11.899	10.485	7.8107E-05	8.2217E-05	-0.839	
64	79	313.6	564.5	0.317	0.279	11.893	10.479	1.1842E-04	1.2465E-04	-0.535	
65	80	314.1	565.3	1.079	0.951	11.886	10.473	4.0365E-04	4.2492E-04	-0.621	
66	81	314.5	566.9	1.161	1.023	11.875	10.463	4.3477E-04	4.5771E-04	-1.199	
67	82	315.5	567.8	1.573	1.386	11.868	10.457	5.8935E-04	6.2046E-04	-0.313	
68	83	316.1	565.4	1.216	1.080	11.886	10.473	4.5855E-04	4.8271E-04	0.395	
69	84	316.8	570.3	1.022	0.900	11.850	10.441	3.8354E-04	4.0962E-04	-0.002	
70	85	317.8	572.0	0.870	0.766	11.837	10.430	3.2683E-04	3.4413E-04	0.002	
71	86	318.5	573.3	0.794	0.699	11.827	10.421	2.9856E-04	3.1438E-04	0.117	
72	87	319.0	574.3	0.742	0.654	11.820	10.415	2.7927E-04	2.9408E-04	0.008	
73	88	320.4	576.8	0.700	0.617	11.801	10.399	2.6379E-04	2.7780E-04	0.029	
74	89	321.7	579.0	0.755	0.665	11.785	10.384	2.8490E-04	3.0006E-04	0.014	
75	90	321.5	578.7	0.793	0.698	11.787	10.386	2.9921E-04	3.1512E-04	0.034	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0272E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 2.6052E C6 2.3258E C6 C.914 8.24 1128.1 1.1924E 06 C.3048 1.000 RUN NO. 25
 MACH RE/FT REL LENGTH(FT) REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAM/HT
 5.10 7.9520E C5 2.3358E C6 3.000 121.20 2030.5 512.77 1.0000 1.000

CPAN	T/C	T(DEG K)	T(DEG R)	U(W/CM2)	C(LBU/FT2-SEC)	C(S(W/CM2)	CS(BTU/FT2-SEC)	SI(10.907)	ST(10.874)	TIME(SEC)
1	1	210.2	558.4	0.006	0.005	10.984	9.678	2.3213E-06	2.4463E-06	1.025
2	2	210.5	559.6	0.019	0.017	10.975	9.671	7.4805E-06	7.8837E-06	0.751
3	3	211.4	560.4	0.088	0.078	10.969	9.665	3.4148E-05	3.5990E-05	0.515
4	4	211.6	560.9	0.120	0.106	10.966	9.662	4.6467E-05	4.8975E-05	0.369
5	5	211.7	561.1	0.161	0.142	10.964	9.661	6.2388E-05	6.5755E-05	0.020
6	6	212.2	562.0	0.188	0.166	10.958	9.655	7.3072E-05	7.7018E-05	-0.139
7	7	212.3	562.2	0.233	0.205	10.956	9.654	9.0255E-05	9.5256E-05	-0.217
8	8	213.0	563.5	0.387	0.341	10.947	9.645	1.5014E-04	1.5826E-04	-0.099
9	9	213.4	564.2	0.431	0.379	10.941	9.641	1.6718E-04	1.7623E-04	-0.130
10	10	213.6	564.4	0.433	0.382	10.939	9.639	1.6822E-04	1.7732E-04	-0.201
11	11	213.7	564.6	0.488	0.430	10.938	9.638	1.8949E-04	1.9974E-04	-0.175
12	12	213.7	564.7	0.535	0.472	10.937	9.637	2.0788E-04	2.1914E-04	-0.087
13	13	213.6	564.5	0.510	0.449	10.939	9.639	1.9806E-04	2.0778E-04	-0.150
14	14	213.1	563.5	0.459	0.404	10.946	9.645	1.7803E-04	1.8766E-04	-0.188
15	15	212.5	562.4	0.346	0.305	10.954	9.652	1.3454E-04	1.4160E-04	-0.605
16	16	309.3	556.7	-0.005	-0.004	10.997	9.690	-1.7668E-06	-1.8618E-06	1.343
17	17	309.4	557.0	-0.005	-0.005	10.995	9.688	-2.0248E-06	-2.1338E-06	1.319
18	18	210.2	558.4	0.006	0.006	10.984	9.679	2.4217E-06	2.5521E-06	0.900
19	19	210.8	559.4	0.012	0.011	10.977	9.672	4.8006E-06	5.0593E-06	0.491
20	20	211.0	559.9	0.084	0.074	10.973	9.669	3.2366E-05	3.4111E-05	0.554

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1390E-01 (SLUGS/FT2-SEC)

PROBE NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 7.6172E C5 2.2851E 06 3.000 121.20 2082.9 527.32
 RE/METER 2.4551E C6 2.2951E C6 0.914 8.24 1157.2 1.2263E C6 0.3049
 RE/FT 7.6172E C5 2.2851E 06 3.000 121.20 2082.9 527.32
 PT(ATM) 8.24 1157.2 1.2263E C6 0.3049
 PT(PSI) 121.20 2082.9 527.32
 RS(METER) 0.3049
 RS(FT) 1.0000
 HAM/HT 1.0000
 HAM/HT 1.0000
 TEST NO. 159
 RUN NO. 25

CHAN	T/C	H/FT	Q/CS	H/PSI(CCO)	H/MSI(507)	H/MSI(874)	CH-AN	T/C	H/FT	Q/US	H/PSI(000)	H/MS(0.907)	H/MS(0.874)
21	61	0.257	C.0187	0.0187	0.0214	0.0225	39	39	0.256	0.0130	0.0149	0.0157	
22	62	0.256	C.0022	0.0022	0.0025	0.0027	40	40	0.256	0.0141	0.0162	0.0170	
23	63	0.255	C.CCC0	0.0005	0.0011	0.0011	41	41	0.256	0.0219	0.0231	0.0249	
24	64	0.254	C.CC01	0.0002	0.0002	0.0002	42	42	0.257	0.0240	0.0275	0.0289	
25	65	0.253	0.0000	0.0000	0.0000	0.0000	43	43	0.257	0.0354	0.0405	0.0424	
26	26	0.252	0.0000	0.0000	0.0000	0.0000	44	44	0.257	0.0379	0.0433	0.0456	
27	27	0.251	0.0000	0.0000	0.0000	0.0000	45	45	0.257	0.0419	0.0479	0.0504	
28	28	0.250	0.0000	0.0000	0.0000	0.0000	46	46	0.257	0.0378	0.0432	0.0455	
29	29	0.249	0.0000	0.0000	0.0000	0.0000	47	47	0.257	0.0478	0.0546	0.0573	
30	30	0.248	0.0000	0.0000	0.0000	0.0000	48	48	0.257	0.0464	0.0531	0.0559	
31	31	0.247	C.CC01	0.0001	0.0001	0.0001	49	49	0.257	0.0422	0.0483	0.0508	
32	32	0.246	C.CC14	-0.0014	-0.0016	-0.0017	50	50	0.257	0.0272	0.0311	0.0328	
33	33	0.245	C.CC02	0.0002	0.0002	0.0002	51	51	0.254	0.0006	0.0007	0.0008	
34	34	0.244	C.CC15	0.0015	0.0017	0.0018	52	52	0.254	-0.0006	-0.0007	-0.0008	
35	35	0.243	C.CC01	0.0001	0.0001	0.0002	53	53	0.254	-0.0014	-0.0016	-0.0017	
36	36	0.242	C.CC10	0.0010	0.0011	0.0012	54	54	0.255	0.0003	0.0004	0.0004	
37	37	0.241	C.CC19	0.0019	0.0022	0.0023	55	55	0.256	0.0059	0.0067	0.0071	
38	38	0.240	C.CC74	0.0074	0.0085	0.0090							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.4551E C6 2.2851E C6 0.914 1157.2 1.2263E C6 0.3048 1.0000
 MACH 5.10 7.6172E C6 2.2851E C6 3.000 121.20 2082.9 527.32 1.0000 1.0000
 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(LDULE/KG) RS(METER) HAW/HT TEST NO. 158
 REL LENGTH(FT) FT(PSI) TT(DEC RJ) FT(LBU/LBM) RS(FT) HAW/HT RUN NO. 25

CPAN	T/C	TW(DEC K)	TW(DEC R)	G(W/CM2)	Q(TBU/FT2-SEC)	CS(W/CM2)	CS(M/CP2)	CS(TBU/FT2-SEC)	ST(C.907)	ST(C.874)	TIME(SEC)
21	61	313.4	564.1	0.213	0.187	11.360	10.010	8.0502E-05	8.5227E-05	0.503	
22	62	312.6	562.6	0.025	0.022	11.371	10.020	9.5379E-06	1.0047E-05	0.467	
23	63	311.2	560.3	0.011	0.009	11.389	10.035	3.9981E-06	4.2112E-06	0.991	
24	64	310.8	559.0	0.002	0.002	11.398	10.043	7.3176E-07	7.7074E-07	1.644	
25	25	-C.C	-C.C	*****	*****	*****	*****	3.0075E-02	3.2144E-02	0.000	
26	26	-C.C	-C.C	*****	*****	*****	*****	3.0075E-02	3.2144E-02	0.000	
27	27	-C.C	-C.C	*****	*****	*****	*****	3.0075E-02	3.2144E-02	0.000	
28	28	-C.C	-C.C	*****	*****	*****	*****	3.0075E-02	3.2144E-02	0.000	
29	29	-C.C	-C.C	*****	*****	*****	*****	3.0075E-02	3.2144E-02	0.000	
30	30	-C.C	-C.C	*****	*****	*****	*****	3.0075E-02	3.2144E-02	0.000	
31	31	309.9	557.9	0.001	0.001	11.407	10.051	4.8915E-07	5.1517E-07	3.129	
32	32	310.3	556.5	-0.016	-0.014	11.402	10.047	-5.3600E-06	-6.2773E-06	1.050	
33	33	310.4	558.8	0.002	0.002	11.400	10.045	7.5421E-07	7.9437E-07	1.329	
34	34	310.9	555.6	0.017	0.015	11.394	10.039	6.4358E-06	6.7707E-06	0.657	
35	35	311.1	559.9	0.001	0.001	11.391	10.037	5.4592E-07	5.7502E-07	-2.186	
36	36	311.5	560.8	0.011	0.010	11.385	10.032	4.2426E-06	4.6688E-06	0.774	
37	37	312.1	561.8	0.022	0.020	11.378	10.025	8.4257E-06	8.8754E-06	0.540	
38	38	312.6	562.7	0.085	0.075	11.371	10.019	3.2211E-05	3.3932E-05	0.369	
39	39	312.4	562.3	0.148	0.130	11.374	10.022	5.6246E-05	5.9249E-05	0.262	
40	40	313.1	563.6	0.161	0.142	11.364	10.013	6.1115E-05	6.4381E-05	0.019	
41	41	312.4	562.4	0.249	0.220	11.373	10.021	9.4852E-05	9.9916E-05	0.018	
42	42	313.3	563.9	0.273	0.241	11.361	10.011	1.0392E-04	1.0948E-04	-0.129	
43	43	314.1	565.4	0.402	0.354	11.350	10.001	1.5314E-04	1.6134E-04	0.034	
44	44	314.4	565.9	0.430	0.378	11.347	5.998	1.6270E-04	1.7246E-04	-0.026	
45	45	314.1	565.4	0.475	0.429	11.350	10.001	1.8116E-04	1.9085E-04	-0.063	
46	46	314.2	565.5	0.429	0.378	11.350	10.001	1.6356E-04	1.7231E-04	-0.081	
47	47	314.2	565.5	0.542	0.478	11.350	10.001	2.0661E-04	2.1766E-04	-0.004	
48	48	313.9	565.0	0.327	0.285	11.354	10.004	2.0084E-04	2.1158E-04	-0.005	
49	49	313.7	564.7	0.480	0.423	11.356	10.006	1.8260E-04	1.9237E-04	-0.087	
50	50	313.4	564.1	0.309	0.273	11.360	10.010	1.1779E-04	1.2408E-04	-0.404	
51	65	310.0	558.1	0.007	0.006	11.405	10.049	2.7051E-06	2.8491E-06	2.235	
52	66	310.5	559.0	-0.007	-0.006	11.398	10.044	-2.7508E-06	-2.8973E-06	0.214	
53	67	310.4	558.8	-0.016	-0.014	11.400	10.045	-6.0405E-06	-6.3622E-06	0.484	
54	68	311.7	561.0	0.003	0.003	11.383	10.030	1.3268E-06	1.3976E-06	0.005	
55	69	312.3	562.1	0.067	0.059	11.376	10.023	2.5523E-05	2.6886E-05	0.470	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0980E-01 (SLUGS/FT2-SEC)

PROBE AC. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 REL LENGTH(METER) 2.2186E C6
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 2.2186E C6
 REL LENGTH(FT) 3.000

RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 25
 HAW/HT 1.000
 HAW/HT 1.000
 RSIFT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 25
 HAW/HT 1.000
 HAW/HT 1.000
 RSIFT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 25
 HAW/HT 1.000
 HAW/HT 1.000
 RSIFT) 1.0000

CHAN	T/C	H/W/HT	Q/QS	F/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
56	71	0.249	-0.0614	-0.0014	-0.0017	-0.0017	0.0085	0.0097	0.0102
57	72	0.245	-0.0607	-0.0008	-0.0008	-0.0008	0.0147	0.0168	0.0177
58	73	0.245	-0.0622	-0.0022	-0.0026	-0.0026	0.0298	0.0360	0.0358
59	74	0.250	-0.0621	-0.0021	-0.0026	-0.0026	0.0344	0.0393	0.0414
60	75	0.250	-0.0604	-0.0004	-0.0004	-0.0004	0.0376	0.0430	0.0453
61	76	0.251	-0.0617	-0.0017	-0.0020	-0.0020	0.0400	0.0458	0.0482
62	77	0.251	-0.0609	-0.0009	-0.0011	-0.0011	0.0408	0.0467	0.0492
63	78	0.252	-0.0609	-0.0009	-0.0011	-0.0011	0.0470	0.0537	0.0566
64	79	0.252	0.0606	0.0006	0.0007	0.0007	0.0420	0.0481	0.0507
65	80	0.253	0.0640	0.0040	0.0046	0.0046	0.0263	0.0301	0.0317

CHAN	T/C	H/W/HT	Q/QS	F/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
66	81	0.254	0.0085	0.0085	0.0085	0.0085	0.0085	0.0097	0.0102
67	82	0.255	0.0147	0.0147	0.0147	0.0147	0.0147	0.0168	0.0177
68	83	0.254	0.0298	0.0298	0.0298	0.0298	0.0298	0.0360	0.0358
69	84	0.256	0.0344	0.0344	0.0344	0.0344	0.0344	0.0393	0.0414
70	85	0.257	0.0376	0.0376	0.0376	0.0376	0.0376	0.0430	0.0453
71	86	0.257	0.0400	0.0400	0.0400	0.0400	0.0400	0.0458	0.0482
72	87	0.257	0.0408	0.0408	0.0408	0.0408	0.0408	0.0467	0.0492
73	88	0.258	0.0470	0.0470	0.0470	0.0470	0.0470	0.0537	0.0566
74	89	0.259	0.0420	0.0420	0.0420	0.0420	0.0420	0.0481	0.0507
75	90	0.259	0.0263	0.0263	0.0263	0.0263	0.0263	0.0301	0.0317

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACH RE/METER REL LENGTH(METER) PT(ATM) TT(EG K) FT(JCULE/KG) RS(METER) PAM/HT TEST NO. 158
 5-10 2.426E C6 2.218E C6 8.24 1177.5 1.250E 06 0.3048 1.000 RUN NO. 25
 PACH RE/FT REL LENGTH(FT) PT(PSI) VT(DEG R) HI(FT/LBM) RS(FT) HAM/HT
 5-10 7.395E C5 2.218E 06 121.20 2119.5 537.51 1.0000 1.000

CHPN	T/C	TW(EG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	U(LW/CM2)	CS(BTU/FT2-SEC)	ST(0.5CT)	ST(0.874)	TIME(SEC)
56	71	305.5	557.9	-0.017	-0.015	11.658	10.308	-6.3371E-06	-5.6717E-06	0.736
57	72	305.5	537.9	-0.008	-0.007	11.699	10.308	-2.8766E-06	-3.0285E-06	0.164
58	73	310.2	538.4	-0.025	-0.022	11.695	10.304	-9.5267E-06	-1.0041E-05	1.085
59	74	310.2	559.0	-0.025	-0.022	11.690	10.300	-9.3172E-06	-9.8096E-06	1.278
60	75	311.2	560.1	-0.004	-0.004	11.682	10.293	-1.6102E-06	-1.6551E-06	0.797
61	76	311.8	561.2	-0.019	-0.017	11.674	10.286	-7.2740E-06	-7.6590E-06	1.352
62	77	312.2	562.0	-0.011	-0.009	11.668	10.281	-3.9434E-06	-4.1522E-06	1.430
63	78	313.1	563.7	-0.011	-0.010	11.655	10.270	-4.1487E-06	-4.3686E-06	1.553
64	79	313.8	564.9	0.007	0.006	11.646	10.262	2.4614E-06	2.5920E-06	0.405
65	80	314.8	566.7	0.047	0.041	11.633	10.250	1.7529E-05	1.8460E-05	0.212
66	81	316.0	568.7	0.059	0.027	11.618	10.237	3.7289E-05	3.9273E-05	-0.368
67	82	316.5	570.4	0.171	0.150	11.605	10.226	6.4375E-05	6.7805E-05	-0.653
68	83	316.1	569.0	0.346	0.305	11.616	10.235	1.3042E-04	1.3737E-04	0.208
69	84	319.0	574.1	0.398	0.351	11.577	10.201	1.5064E-04	1.5868E-04	-0.145
70	85	315.7	575.4	0.435	0.383	11.568	10.193	1.6461E-04	1.7341E-04	-0.139
71	86	315.8	575.7	0.463	0.408	11.566	10.191	1.7535E-04	1.8473E-04	-0.107
72	87	320.2	576.5	0.472	0.416	11.560	10.186	1.7875E-04	1.8832E-04	-0.146
73	88	321.4	578.5	0.543	0.478	11.545	10.173	2.0585E-04	2.1688E-04	0.103
74	89	322.4	580.3	0.465	0.427	11.531	10.161	1.8418E-04	1.9406E-04	-0.210
75	90	321.5	579.4	0.304	0.268	11.539	10.167	1.1533E-04	1.2152E-04	-0.514

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0702E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 26

CONSTANT SET 42/

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. ***		RESEARCH CENTER MCFEET FIELD CALIF. ***		PRELIMINARY DATA ***								
MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	RS(FT)	HAW/HT	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
5.10	1.5392E 06	1.4080E 06	0.914	1074.0	1.1300E 06	C.3048	1.0000	C.3048	1.0000	0.1155	0.1325	0.1393
5.1	4.5944E 05	1.4081E 06	65.86	1933.2	485.94	1.0000	1.0000	1.0000	1.0000	0.1155	0.1325	0.1393
CHAN	T/C	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	PW/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	431	0.0797	0.0914	0.0965	11	206	0.275	0.1155	0.1155	0.1155	0.1325	0.1393
2	432	0.0377	0.0432	0.0456	12	207	0.276	0.1649	0.1649	0.1649	0.1892	0.1996
3	433	0.0076	0.0087	0.0092	13	208	0.276	0.1321	0.1321	0.1321	0.1516	0.1600
4	434	0.0011	0.0013	0.0013	14	209	0.276	0.1171	0.1171	0.1171	0.1343	0.1417
5	435	-0.0000	-0.0000	-0.0000	15	210	0.276	0.1026	0.1026	0.1026	0.1177	0.1242
6	201	0.0073	0.0084	0.0089	16	216	0.274	0.0016	0.0016	0.0016	0.0018	0.0019
7	202	0.0280	0.0321	0.0339	17	217	0.274	0.0019	0.0019	0.0019	0.0011	0.0011
8	203	0.1036	0.1190	0.1256	18	218	0.274	0.0030	0.0030	0.0030	0.0034	0.0036
9	204	0.1038	0.1191	0.1257	19	219	0.274	0.0074	0.0074	0.0074	0.0085	0.0090
10	205	0.1515	0.1738	0.1834	20	220	0.275	0.0246	0.0246	0.0246	0.0282	0.0297

TEST NO. 158
RUN NO. 26

PRELIMINARY DATA ***
HAW/HT 1.000
RS(METER) 7.3748
RS(FT) 1.000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HT(JOULE/KG) 1.1300E-06
HT(FTU/LBM) 485.94

SPACE ADMINISTRATION AMES
TT(DEG K) 1074.0
TT(DEG R) 1935.2

PI(ATM) 4.48
PI(PSI) 65.86

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
REL LENGTH(METER) 0.514
REL LENGTH(FT) 3.000

REL TW(DFG K) 3.000
REL TW(DFG R) 3.000

CHAR.	T/C	TW(DFG K)	TW(DFG R)	Q (M/CM2)	Q (BTU/FT2-SEC)	Q (SIW/CM2)	QS (BTU/FT2-SEC)	ST (C.907)	ST (O.874)	TIME (SEC)
1	431	309.4	556.8	0.529	7.533	6.638	4.4419E-04	4.6866E-04	0.329	
2	432	308.7	555.7	0.584	7.539	6.643	2.5982E-04	2.2137E-04	0.495	
3	433	308.4	555.2	0.657	7.542	6.646	4.2389E-05	4.4721E-05	0.567	
4	434	308.0	554.4	0.708	7.547	6.650	0.1074E-06	6.4432E-06	-0.274	
5	435	307.4	553.3	-0.000	7.553	6.655	-4.1127E-08	-4.3386E-08	26.018	
6	201	308.6	555.5	0.649	7.541	6.645	4.0944E-05	4.3197E-05	0.483	
7	202	309.1	556.3	0.711	7.538	6.640	1.5569E-04	1.6448E-04	0.059	
8	203	309.4	556.9	0.782	7.533	6.638	5.7815E-04	6.1000E-04	0.136	
9	204	309.6	557.2	0.872	7.531	6.636	5.7855E-04	6.1044E-04	0.316	
10	205	309.7	557.5	1.142	7.529	6.634	8.4437E-04	8.9091E-04	0.002	
11	206	310.0	557.9	0.869	7.527	6.633	9.1504E-04	9.6971E-04	0.234	
12	207	310.0	558.0	1.241	7.527	6.632	8.4342E-04	8.7890E-04	0.332	
13	208	310.4	558.7	0.994	7.523	6.629	6.5240E-04	6.7839E-04	0.474	
14	209	310.2	558.6	0.881	7.523	6.630	6.5240E-04	6.8839E-04	0.468	
15	210	308.0	558.4	0.772	7.525	6.650	5.7153E-04	6.0905E-04	0.454	
16	211	308.1	558.6	0.707	7.547	6.650	8.7521E-06	9.2332E-06	0.871	
17	212	308.1	558.6	0.722	7.545	6.649	5.2073E-06	5.4936E-06	0.273	
18	213	308.5	555.9	0.020	7.542	6.645	1.6475E-05	1.7361E-05	0.101	
19	214	308.8	555.8	0.056	7.539	6.643	4.1321E-05	4.3595E-05	0.484	
20	215	309.0	556.3	0.185	7.536	6.641	1.3687E-04	1.4440E-04	0.385	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.205E-1 (SLUGS/FT2-SEC)

PROBE NO. 1

117

TEST NO. 158
RUN NO. 26

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. ***
 RE/METER REL LENGTH(METER) P(TATM) TT(DEC K) HT(JOULE/KG) PS(MILTER) HAM/HT 1.000
 1.5002E 06 1.3992E 05 0.914 4.48 1078.1 1.1347E 06 0.3348 1.000
 1.6599E 05 1.3992E 06 5.000 65.86 1940.5 487.94 1.0000 1.000

CHAN	T/C	HW/HT	G/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	G/QS	H/PS(1.000)	H/PS(0.907)	H/PS(0.874)
21	401	0.273	0.0818	0.0018	0.0019	0.0019	44	234	0.274	0.0313	0.0314	0.0359	0.0319
22	402	0.274	0.0793	0.0793	0.0799	0.0799	45	235	0.267	0.0732	0.0732	0.0830	0.0883
23	403	0.274	0.0565	0.0565	0.0648	0.0683	46	236	0.274	0.1286	0.1286	0.1475	0.1556
24	404	0.274	0.0038	0.0038	0.0044	0.0046	47	237	0.274	0.1930	0.1930	0.2214	0.2336
25	405	0.273	0.0041	0.0041	0.0048	0.0050	48	238	0.275	0.5173	0.5173	0.5934	0.6260
26	406	0.273	0.0011	0.0011	0.0013	0.0014	49	239	0.275	0.3586	0.3586	0.4114	0.4340
27	407	0.273	0.0001	0.0001	0.0001	0.0001	50	240	0.275	0.5246	0.5246	0.6019	0.6350
28	408	0.273	0.0014	0.0014	0.0016	0.0017	51	241	0.275	0.3302	0.3302	0.3788	0.3998
29	409	0.273	0.0008	0.0008	0.0009	0.0010	52	242	0.275	0.4512	0.4512	0.5177	0.5462
30	410	0.273	0.1068	0.1068	0.1225	0.1292	53	243	0.275	0.2731	0.2731	0.3133	0.3305
31	411	0.275	0.0937	0.0937	0.1075	0.1134	54	244	0.275	0.2078	0.2078	0.2384	0.2515
32	412	0.274	0.0773	0.0773	0.0886	0.0935	55	245	0.275	0.0029	0.0029	0.0033	0.0035
33	413	0.274	0.0253	0.0253	0.0290	0.0306	56	255	0.274	0.0080	0.0080	0.0092	0.0097
34	414	0.274	0.0109	0.0109	0.0124	0.0131	57	256	0.274	0.0247	0.0247	0.0283	0.0299
35	415	0.274	0.0055	0.0055	0.0063	0.0066	58	257	0.274	0.0335	0.0335	0.0384	0.0405
36	416	0.273	0.0027	0.0027	0.0027	0.0029	59	258	0.275	0.0635	0.0635	0.0729	0.0769
37	417	0.273	0.0024	0.0024	0.0025	0.0025	60	259	0.275	0.0026	0.0026	0.0030	0.0031
38	418	0.273	0.0018	0.0018	0.0021	0.0022	61	265	0.273	0.0026	0.0026	0.0030	0.0031
39	419	0.273	0.0021	0.0021	0.0024	0.0025	62	266	0.272	1.0186	1.0186	1.1678	1.2318
40	420	0.273	0.0011	0.0011	0.0012	0.0012	63	267	0.274	0.0075	0.0075	0.0086	0.0091
41	231	0.273	0.0020	0.0020	0.0023	0.0024	64	268	0.274	0.0092	0.0092	0.0106	0.0112
42	232	0.273	0.0020	0.0020	0.0023	0.0024	65	269	0.274	0.0288	0.0288	0.0331	0.0349
43	233	0.273	0.0093	0.0093	0.0106	0.0112							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION: AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER REL LENGTH (FT) 1.3992E 06 TM (DEG K) 3.600 Q (M/CM2) 65.86 Q (BTU/FT2-SEC) 1.94E 05 HT (IN) 487.94 HT (BTU/LBM) 1.0000
 MACH 5.10 RE/FEET REL LENGTH (FT) 1.3992E 06 TM (DEG K) 3.600 Q (M/CM2) 65.86 Q (BTU/FT2-SEC) 1.94E 05 HT (IN) 487.94 HT (BTU/LBM) 1.0000
 RS (PIETER) 1078.1 4.48 1.347E 06 RS (METER) 1078.1 4.48 1.347E 06
 HAW/HT 1.0000 HAW/HT 1.0000
 TEST NO. 158 RUN NO. 26

CHAN	T/C	TM (DEG K)	REL	LENGTH (FT)	TM (DEG K)	Q (M/CM2)	Q (BTU/FT2-SEC)	HT (IN)	HT (BTU/LBM)	RS (PIETER)	HAW/HT	ST (IO-474)	TIME (SEC)
21	401	310.2	558.4	0.619	7.568	6.668	4.5735E-04	4.8232E-04	0.285			4.8232E-04	0.285
22	402	310.0	557.9	0.600	7.570	6.670	4.4293E-04	4.6731E-04	0.161			4.6731E-04	0.161
23	403	309.6	557.3	0.428	7.574	6.674	3.1543E-04	3.3278E-04	0.424			3.3278E-04	0.424
24	404	309.2	556.4	0.329	7.578	6.678	2.1322E-05	2.2508E-05	-1.131			2.2508E-05	-1.131
25	405	308.8	555.4	0.331	7.582	6.680	2.3172E-05	2.4445E-05	0.243			2.4445E-05	0.243
26	406	308.0	554.5	-0.008	7.584	6.682	-6.1439E-06	-6.6921E-06	1.380			-6.6921E-06	1.380
27	407	308.2	554.8	1.001	7.587	6.685	3.9487E-07	4.2752E-07	-4.565			4.2752E-07	-4.565
28	408	-0.0	555.2	0.000	7.588	6.686	0.0000E+00	0.0000E+00	0.000			0.0000E+00	0.000
29	409	308.4	555.2	0.011	7.585	6.684	7.8933E-06	8.3264E-06	0.391			8.3264E-06	0.391
30	410	308.0	554.3	-0.006	7.590	6.688	-4.5059E-06	-4.7531E-06	1.642			-4.7531E-06	1.642
31	411	310.2	558.4	0.808	7.568	6.668	5.9650E-04	6.2934E-04	0.329			6.2934E-04	0.329
32	412	310.1	558.2	0.709	7.569	6.669	5.2354E-04	5.5235E-04	0.159			5.5235E-04	0.159
33	413	309.6	557.3	0.516	7.574	6.674	3.5178E-04	3.7538E-04	0.400			3.7538E-04	0.400
34	414	309.6	557.0	0.191	7.579	6.678	1.4118E-04	1.4844E-04	0.448			1.4844E-04	0.448
35	415	309.1	556.3	0.082	7.579	6.678	3.0463E-05	3.2138E-05	0.229			3.2138E-05	0.229
36	416	309.0	556.3	0.041	7.581	6.680	3.9473E-06	4.1638E-06	-1.881			4.1638E-06	-1.881
37	417	308.9	556.9	0.005	7.582	6.681	2.4493E-06	2.5843E-06	0.178			2.5843E-06	0.178
38	418	308.7	555.7	0.003	7.583	6.682	-1.0150E-05	-1.0708E-05	1.639			-1.0708E-05	1.639
39	419	308.6	555.6	-0.014	7.584	6.683	-1.1768E-05	-1.2414E-05	1.427			-1.2414E-05	1.427
40	420	308.5	555.4	0.008	7.584	6.683	6.6289E-06	6.9595E-06	1.828			6.9595E-06	1.828
41	231	308.4	555.6	0.013	7.583	6.681	1.1109E-05	1.1710E-05	0.626			1.1710E-05	0.626
42	232	308.7	556.1	0.070	7.580	6.679	5.1829E-05	5.4677E-05	0.602			5.4677E-05	0.602
43	233	309.0	556.5	0.237	7.578	6.677	1.7487E-04	1.8448E-04	0.447			1.8448E-04	0.447
44	234	309.2	556.5	0.493	7.578	6.678	4.0834E-04	4.3038E-04	0.734			4.3038E-04	0.734
45	235	309.2	557.7	0.559	7.572	6.672	7.7848E-04	8.1377E-04	0.247			8.1377E-04	0.247
46	236	309.8	557.7	0.974	7.572	6.669	1.0784E-03	1.1377E-03	0.296			1.1377E-03	0.296
47	237	310.1	558.1	1.461	7.569	6.666	2.0030E-03	2.1141E-03	0.513			2.1141E-03	0.513
48	238	310.5	558.9	3.914	7.555	6.662	4.8907E-03	5.1415E-03	0.225			5.1415E-03	0.225
49	239	310.3	558.0	2.714	7.567	6.667	2.0030E-03	2.1141E-03	0.225			2.1141E-03	0.225
50	240	311.0	559.7	3.966	7.561	6.662	4.8907E-03	5.1415E-03	0.225			5.1415E-03	0.225
51	241	310.6	559.2	2.498	7.564	6.665	3.2211E-03	3.3833E-03	0.409			3.3833E-03	0.409
52	242	311.0	559.8	3.412	7.560	6.662	5.2254E-03	5.5099E-03	0.467			5.5099E-03	0.467
53	243	310.8	559.5	2.765	7.562	6.663	4.0000E+00	4.2000E+00	0.000			4.2000E+00	0.000
54	244	-0.0	559.0	0.000	7.565	6.665	0.0000E+00	0.0000E+00	0.000			0.0000E+00	0.000
55	245	310.5	559.0	1.572	7.565	6.665	1.6112E-03	1.7221E-03	0.478			1.7221E-03	0.478
56	255	308.5	558.3	0.022	7.585	6.683	1.4073E-05	1.4950E-05	1.268			1.4950E-05	1.268
57	256	308.0	556.2	0.050	7.580	6.679	4.4574E-05	4.7026E-05	0.515			4.7026E-05	0.515
58	257	309.5	557.1	0.187	7.574	6.674	1.0787E-04	1.1454E-04	0.576			1.1454E-04	0.576
59	258	310.3	558.0	0.253	7.567	6.668	1.0787E-04	1.1454E-04	0.537			1.1454E-04	0.537
60	259	310.5	558.9	0.481	7.565	6.666	3.5491E-04	3.7446E-04	0.305			3.7446E-04	0.305
61	260	308.8	555.9	0.020	7.581	6.680	1.4486E-05	1.5282E-05	1.388			1.5282E-05	1.388
62	261	307.3	555.2	7.739	7.506	6.693	5.6893E-03	5.9014E-03	0.784			5.9014E-03	0.784
63	262	309.6	557.5	0.050	7.574	6.674	4.2091E-05	4.4406E-05	0.639			4.4406E-05	0.639
64	268	309.7	557.4	0.062	7.573	6.673	5.1545E-05	5.4407E-05	0.169			5.4407E-05	0.169
65	269	309.9	557.8	0.192	7.571	6.671	1.6116E-04	1.7002E-04	0.291			1.7002E-04	0.291

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2021E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 RE/METER 1.3888E 06 RFL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) KSI(METER) HAM/HT 1.000 RUN NO. 26
 MACH 5.10 RE/FT 4.6294E 07 REL LENGTH(FT) PT(PST) TT(DEG R) HT(FTU/LBM) RSIFT) 1.0000 HAM/HT 1.000
 CHAN T/C HW/HT Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874) H/HS(1.000) H/HS(0.907) H/HS(0.874)
 66 421 0.275 0.0732 0.0840 0.0886 0.273 0.0077 0.0088 0.0093
 67 422 0.275 0.1065 0.1222 0.1289 427 0.273 0.0023 0.0026 0.0028
 68 423 0.273 0.0705 0.0808 0.0853 73 428 0.273 -0.0012 -0.0014 -0.0015
 69 424 0.274 0.0239 0.0275 0.0290 74 429 0.273 0.0001 0.0001 0.0001
 70 425 0.274 0.0141 0.0161 0.0170 75 430 0.273 -0.0000 -0.0000 -0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL	TM(DEG K)	TM(DEG R)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(O.907)	ST(O.874)	TIME(SEC)
5.10	4.6294E 05	1.3888E 06	311.9	561.4	0.490	7.602	6.698	4.1030E-04	4.3290E-04	0.218
			311.9	561.3	0.714	7.602	6.699	5.9708E-04	6.2996E-04	0.253
			309.4	556.9	4.474	7.627	6.720	3.9506E-04	4.1674E-04	0.609
			311.0	559.8	0.161	7.611	6.706	1.3420E-04	1.4158E-04	0.368
			310.5	558.9	0.094	7.616	6.710	7.8691E-05	8.3227E-05	0.324
			310.2	558.3	0.050	7.619	6.713	4.2930E-05	4.5288E-05	0.279
			309.7	557.5	0.018	7.623	6.717	1.7923E-05	1.3632E-05	0.948
			309.7	557.4	-0.009	7.624	6.718	-6.8535E-06	-7.2297E-06	2.220
			309.5	557.0	0.000	7.626	6.719	3.3013E-07	3.4824E-07	6.239
			309.5	557.2	-0.000	7.625	6.719	-4.5097E-10	-4.7572E-10	*****

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1982E-03 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 7.8527E 05 2.3648E 06 3.100 H/HS(1.000) H/HS(0.907) H/HS(0.874)
 RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT
 5.10 5.5842E 06 2.3648E 06 0.514 8.12 1123.7 1.1874E 06 0.3048 1.000
 MACH 5.10 7.8527E 05 2.3648E 06 3.100 H/HS(1.000) H/HS(0.907) H/HS(0.874)
 RE/FT REL LENGTH(FT) PT(PST) TT(DEG R) HT(LBTU/LBM) RS(FT) HAM/HT
 5.10 7.8527E 05 2.3648E 06 3.100 119.35 2022.7 510.61 1.0000 CONSTANT SET 42;

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	431	0.264	0.0835	0.0835	0.0956	0.1007	11	206	0.264	0.1863	0.1863	0.2132	0.2247
2	432	0.263	0.0376	0.0376	0.0431	0.0454	12	207	0.264	0.2787	0.2787	0.3190	0.3363
3	433	0.263	0.0672	0.0672	0.0683	0.0697	13	208	0.265	0.1906	0.1906	0.2182	0.2301
4	434	0.261	0.0011	0.0011	0.0012	0.0013	14	209	0.265	0.1660	0.1660	0.1900	0.2003
5	435	0.261	0.0000	0.0000	0.0000	0.0000	15	210	0.264	0.1329	0.1329	0.1522	0.1604
6	201	0.262	0.0332	0.0332	0.0382	0.0400	16	216	0.261	0.0072	0.0072	0.0082	0.0086
7	202	0.263	0.0789	0.0789	0.0903	0.0952	17	217	0.261	0.0025	0.0025	0.0028	0.0030
8	203	0.263	0.2389	0.2389	0.2734	0.2881	18	218	0.262	0.0083	0.0083	0.0095	0.0101
9	204	0.263	0.2117	0.2117	0.2423	0.2554	19	219	0.262	0.0146	0.0146	0.0168	0.0177
10	205	0.264	0.2868	0.2868	0.3283	0.3460	20	220	0.263	0.0382	0.0382	0.0437	0.0461

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 2.5862E 06 REL LENGTH(METER) 0.914 PT(ATM) 8.12 TT(CEG K) 1123.7 HT(JOULE/KG) 1.1874E 06 RS(METER) 0.3048 HAM/HT 1.000 TEST NO. 158
 MACH 5.10 RE/FT 7.8827E 05 REL LENGTH(FT) 3.000 PT(PST) 119.35 TT(DEG R) 2022.7 HT(LBTU/LBM) 510.61 RS(FT) 1.0000 HAM/HT 1.0000 RUN NO. 27

CHAN	T/C	TH(CEG K)	TH(DEG R)	Q(H/CM2)	Q(BTU/FT-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	431	312.0	561.6	0.933	0.796	10.815	9.529	3.5651E-04	3.7580E-04	0.284
2	432	310.6	559.1	0.419	0.359	10.833	9.545	1.6061E-04	1.6928E-04	0.243
3	433	310.0	558.1	0.113	0.069	10.841	9.552	3.0781E-05	3.2441E-05	-0.201
4	434	309.1	556.4	0.012	0.010	10.853	9.563	4.6409E-06	4.8910E-06	-3.567
5	435	308.1	554.5	-0.000	-0.000	10.867	9.575	-6.5968E-08	-6.9517E-08	34.653
6	201	309.8	557.6	0.360	0.317	10.844	9.555	1.4175E-04	1.4939E-04	-0.146
7	202	310.6	559.1	0.855	0.753	10.833	9.545	3.5681E-04	3.5500E-04	0.151
8	203	311.1	560.0	2.586	2.279	10.826	9.539	1.0199E-03	1.0750E-03	0.205
9	204	311.5	560.7	2.291	2.019	10.822	9.535	9.0383E-04	9.5268E-04	0.438
10	205	311.8	561.2	3.103	2.734	10.817	9.532	1.2246E-03	1.2908E-03	0.057
11	206	312.1	561.7	2.014	1.775	10.814	9.528	7.9232E-04	8.3834E-04	0.338
12	207	312.2	562.0	3.113	3.655	10.812	9.527	1.1901E-03	1.2545E-03	0.442
13	208	312.8	563.0	2.160	1.815	10.804	9.520	8.3407E-04	8.5815E-04	0.549
14	209	312.9	563.2	1.793	1.580	10.803	9.519	7.0885E-04	7.4724E-04	0.547
15	210	312.7	562.8	1.437	1.266	10.806	9.521	5.6769E-04	5.9843E-04	0.498
16	216	308.9	556.1	0.078	0.068	10.855	9.565	3.0524E-05	3.2168E-05	-0.760
17	217	309.1	556.4	0.027	0.024	10.853	9.563	1.0571E-05	1.1140E-05	-0.502
18	216	309.8	557.6	0.090	0.080	10.844	9.555	3.5600E-05	3.7519E-05	0.049
19	219	310.3	558.6	0.159	0.140	10.837	9.549	6.2506E-05	6.5873E-05	0.387
20	220	310.7	559.3	0.414	0.365	10.831	9.544	1.6306E-04	1.7187E-04	0.400

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1125E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA

MACH 5.1C
MACH 5.1C

RE/METER 2.5229E 06
RE/FT 7.6897E 05

REL LENGTH(METER) 0.714
REL LENGTH(FT) 3.100

PT(ATM) 8.12
PT(PSI) 119.35

TT(DEC K) 1140.3
TT(BEG R) 2052.6

HT(JOULE/KG) 1.2067E 06
HT(BTU/LBM) 518.89

RS(METER) 0.3048
RS(FT) 1.0000

HAW/HT 1.000
HAW/HT 1.000

TEST NO. 158
RUN NO. 27

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	401	0.261	0.0848	0.2970	0.1022	0.1391
22	402	0.260	0.1000	0.1144	0.1205	0.3025
23	403	0.260	0.0874	0.0999	0.1053	0.3625
24	404	0.259	0.0203	0.2232	0.0245	0.2063
25	405	0.259	0.0134	0.0154	0.0162	0.6304
26	406	0.257	0.0003	0.0003	0.0003	0.7043
27	407	0.258	0.0020	0.0020	0.0024	0.7839
28	408	0.258	0.0052	0.0052	0.0042	0.5948
29	409	0.257	0.0002	0.0002	0.0002	0.7651
30	410	0.260	0.1488	0.1793	0.1793	0.4123
31	411	0.260	0.1373	0.1571	0.1655	0.2665
32	412	0.259	0.1225	0.1401	0.1476	0.0021
33	413	0.259	0.0473	0.0541	0.0570	0.0242
34	414	0.258	0.0296	0.0338	0.0357	0.0683
35	415	0.258	0.0223	0.0255	0.0268	0.0765
36	416	0.258	0.0123	0.0141	0.0148	0.1228
37	417	0.258	0.0038	0.0044	0.0046	0.0030
38	418	0.258	0.0008	0.0009	0.0009	0.0311
39	419	0.257	0.0006	0.0006	0.0007	0.0439
40	420	0.257	0.0059	0.0048	0.0071	0.0434
41	231	0.258	0.0314	0.0358	0.0378	0.0764
42	232	0.258	0.0833	0.0952	0.1003	0.3048
43	233	0.258	0.0833	0.0952	0.1003	0.3048

MACH 5.10 2.5229E 06 2.3069E 06 0.914 1140.5 112087E 06 0.3048 1.000
MACH 5.10 7.6997E 05 2.3069E 06 3.300 119.35 2052.6 518.89 1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	TIME(SEC)	REL LENGTH(METER)	PT(ATM)	TI(DEG K)	HI(FOUR/CG)	RS(METER)	HAH/HT	TEST NO.
21	401	313.5	564.3	0.924	11.031	9.720	3.653E-04	3.853E-04	150
22	402	312.9	563.3	0.973	11.049	9.727	4.313E-04	4.540E-04	0.16
23	403	312.3	562.1	0.851	11.046	9.735	3.762E-04	3.971E-04	0.232
24	404	311.3	560.4	0.225	11.070	9.746	6.752E-05	6.927E-05	-0.002
25	405	310.6	559.0	0.131	11.070	9.754	5.795E-05	6.164E-05	-0.130
26	406	309.1	556.4	0.063	11.089	9.771	1.1301E-06	1.1906E-06	-1.932
27	407	309.6	557.2	0.019	11.084	9.766	8.4167E-06	8.8673E-06	-0.859
28	408	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000	0.000
29	409	309.9	557.9	0.057	11.074	9.762	2.2368E-05	2.3464E-05	-0.135
30	410	309.9	558.3	0.002	11.090	9.772	-7.2206E-07	-7.6070E-07	0.280
31	411	312.9	563.2	1.447	11.040	9.728	6.4173E-04	6.7624E-04	0.385
32	412	312.4	562.3	1.337	11.046	9.733	5.9233E-04	6.2417E-04	0.298
33	413	311.7	561.0	1.354	11.053	9.741	2.0421E-04	2.1514E-04	0.442
34	414	311.1	560.1	0.524	11.063	9.748	1.2366E-04	1.3481E-04	0.382
35	415	310.3	558.6	0.329	11.074	9.757	1.2366E-04	1.3481E-04	0.382
36	416	310.1	558.3	0.217	11.076	9.759	9.6039E-05	1.0121E-04	0.408
37	417	309.9	557.8	0.136	11.080	9.763	5.3066E-05	5.5909E-05	0.417
38	418	309.7	557.4	0.042	11.082	9.765	1.6487E-05	1.7370E-05	0.548
39	419	309.5	557.1	0.009	11.085	9.767	3.3476E-06	3.5268E-06	-0.422
40	420	309.3	556.7	0.005	11.088	9.770	-2.4175E-06	-2.5449E-06	2.024
41	231	309.3	556.7	0.006	11.088	9.770	2.5475E-05	2.6890E-05	0.193
42	232	309.7	557.4	0.306	11.082	9.765	1.3520E-04	1.4244E-04	0.564
43	233	310.0	558.1	0.813	11.073	9.761	3.5924E-04	3.7849E-04	0.461
44	234	310.4	558.7	1.357	11.065	9.758	5.9993E-04	6.3209E-04	0.218
45	235	310.4	560.2	0.976	11.059	9.755	1.3037E-03	1.3729E-03	0.181
46	236	311.4	560.5	0.09	11.059	9.755	1.5634E-03	1.6473E-03	0.066
47	237	312.2	561.9	0.078	11.049	9.758	8.9965E-04	9.3745E-04	-1.182
48	238	312.8	563.2	6.132	11.040	9.727	2.7193E-03	2.8655E-03	-0.158
49	239	312.8	563.0	7.776	11.041	9.725	3.0379E-03	3.2012E-03	0.014
50	240	312.9	564.6	8.644	11.030	9.719	3.3814E-03	3.5634E-03	0.050
51	241	313.3	564.0	6.562	11.034	9.722	2.5655E-03	2.7036E-03	0.475
52	242	313.9	565.0	7.434	11.026	9.715	3.3004E-03	3.4704E-03	0.488
53	243	313.9	565.0	4.956	11.026	9.716	1.7786E-03	1.8744E-03	0.454
54	244	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000	0.000
55	245	313.4	564.1	2.940	11.033	9.721	1.1494E-03	1.2113E-03	0.094
56	255	309.5	557.1	0.023	11.085	9.767	8.0052E-04	8.3817E-04	0.114
57	256	310.0	558.0	0.268	11.078	9.761	1.0423E-04	1.0983E-04	0.161
58	257	310.9	559.6	0.856	11.066	9.751	2.9465E-04	3.1045E-04	0.163
59	258	312.3	562.1	0.645	11.048	9.744	3.7992E-04	3.9745E-04	0.148
60	257	312.8	563.0	1.195	11.041	9.729	5.7964E-04	5.9822E-04	0.136
61	245	310.1	558.2	0.042	11.077	9.760	1.6240E-05	1.7111E-05	0.156
62	246	310.6	559.1	0.344	11.049	9.754	1.3307E-04	1.4124E-04	0.141
63	267	311.0	559.9	0.428	11.064	9.749	1.8934E-04	1.9950E-04	0.127
64	268	311.0	560.7	0.479	11.058	9.743	1.8701E-04	1.9705E-04	0.197
65	269	311.9	561.4	0.644	11.052	9.739	3.2944E-04	3.4714E-04	0.133

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.0892E-1 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***												
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	158			
5.10	2.4592E 06	2.2304E 06	8.12	1163.3	1.2333E C6	0.3048	1.000	RUN NO.	27			
	REL LENGTH(FT)	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT					
	2.2304E 06	3.000	119.35	2093.9	530.37	1.0000	1.000					
CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
66	421	0.257	0.0718	0.0820	0.0864	71	426	0.254	0.0308	0.0308	0.0352	0.0370
67	422	0.256	0.1315	0.1502	0.1583	72	427	0.253	0.0111	0.0111	0.0127	0.0134
68	423	0.254	0.1206	0.1378	0.1452	73	428	0.253	0.0044	0.0044	0.0050	0.0053
69	424	0.255	0.0532	0.0608	0.0641	74	429	0.253	-0.0008	-0.0008	-0.0009	-0.0010
70	425	0.254	0.0416	0.0476	0.0501	75	430	0.253	0.0005	0.0005	0.0006	0.0006

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 27
 CONSTANT SPT 421

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TY(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.
5.10	2.4292E 06	0.914	R.12	1163.3	-2333E 06	0.3048	1.000	158
MACH	WE/FT	REL LENGTH(FT)	PT(PST)	TY(DEG R)	HT(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.
5.10	7.4347E 05	2.2304E 06	119.35	2093.9	530.37	1.0010	1.000	27

T/C	TM(DEG K)	TM(DEG R)	Q1W(CH2)	Q1BTU/FT2-SEC	Q5(W/CM2)	Q5(BTU/FT2-SEC)	SI(0.907)	SI(0.874)	TIME(SEC)
6	421	315.1	0.914	0.717	11.337	9.990	3.1394E-04	3.3072E-04	0.099
67	422	314.0	1.491	1.314	11.743	9.995	5.7501E-04	6.0573E-04	0.088
68	423	311.8	1.475	1.210	11.281	10.028	5.2759E-04	5.5567E-04	0.589
69	424	313.0	0.605	0.593	11.366	10.015	2.3216E-04	2.4517E-04	0.302
70	425	312.0	0.474	0.417	11.378	10.026	1.8204E-04	1.9174E-04	0.267
71	426	311.5	0.351	0.309	11.384	10.031	1.3464E-04	1.4180E-04	0.273
72	427	313.9	0.127	0.112	11.392	10.039	4.8736E-05	5.1327E-05	0.419
73	428	310.7	0.050	0.044	11.396	10.042	1.9209E-05	2.0230E-05	0.866
74	429	310.5	-0.909	-0.898	11.398	10.043	-3.6176E-06	-3.8098E-06	1.454
75	430	310.6	0.005	0.005	11.397	10.042	2.1099E-06	2.2220E-06	1.841

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0578E-01 (SLUGS/FT2-SEC)

PROBE NG. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 28
INSTANT SET 422

RS(METER) HAW/HT 1.000
 RS(FT) HAW/HT 1.000

TT(DEG K) HT(JOULE/KG) H/HS(1.000) H/HS(0.907) H/HS(0.874)
 1238.2 1.2041E 06 0.3048 0.5612 0.5424 0.6772
 TT(DEG R) HT(RTU/LBM) 2048.7 517.81 0.6838 0.7828 0.8252

PI(ATM) 14.08
 PI(P51) 207.04

REL LENGTH(METER) 0.914
 REL LENGTH(FT) 3.000

REL 4.0147E 06
 REL 4.0147E 06

Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874)
 0.0758 0.0867 0.0914

HM/HT 0.264 0.262 0.261 0.258 0.261 0.252 0.262 0.264 0.264

CHAN T/C 11 206 12 207 13 208 14 209 15 210 16 216 17 217 18 218 19 219 20 220

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	431	0.264	0.0758	0.0758	0.0867	0.0914	11	206	0.265	0.5612	0.5424	0.6772	
2	432	0.262	0.0300	0.0300	0.0343	0.0366	12	207	0.265	0.6838	0.7828	0.8252	
3	433	0.261	0.0056	0.0056	0.0064	0.0668	13	208	0.265	0.3710	0.4247	0.4478	
4	434	0.260	0.0013	0.0013	0.0016	0.0016	14	209	0.266	0.3112	0.3563	0.3756	
5	435	0.258	-0.0005	-0.0005	-0.0006	-0.0007	15	210	0.265	0.2810	0.3217	0.3391	
6	201	0.261	0.1908	0.1908	0.2182	0.2300	16	216	0.259	0.0805	0.0921	0.0970	
7	202	0.252	0.3143	0.3143	0.3597	0.3791	17	217	0.259	0.0318	0.0363	0.0383	
8	203	0.262	0.0000	0.0000	0.0000	0.0000	18	218	0.261	0.0500	0.0572	0.0603	
9	204	0.264	0.6248	0.6248	0.7151	0.7538	19	219	0.262	0.0576	0.0659	0.0695	
10	205	0.264	0.2944	0.2944	0.3370	0.3559	20	220	0.262	0.1468	0.1680	0.1771	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL	TM(SEC)	TM(SEC)	Q(BTU/FT2-SEC)	Q(SI(W/CM2))	QS(BTU/FT2-SEC)	QS(SI(W/CM2))	ST(0.874)	TIME(SEC)
5.10	4.3905E 06	4.0147E 06	316.1	568.9	1.94	8.964	14.444	14.444	2.4788E-04	2.6128E-04
MACH	RE/FT	REL	TM(SEC)	TM(SEC)	Q(BTU/FT2-SEC)	Q(SI(W/CM2))	QS(BTU/FT2-SEC)	QS(SI(W/CM2))	ST(0.907)	TIME(SEC)
5.10	1.3382E 06	4.0147E 06	316.5	569.2	3.722	7.950	14.441	14.441	2.0440E-03	2.1946E-03
			317.0	569.6	4.250	8.745	14.424	14.424	1.8362E-03	1.9356E-03
			317.4	571.0	8.295	7.252	14.421	14.421	2.3585E-03	2.5285E-03
			318.1	572.6	9.361	5.689	14.409	14.409	1.2139E-03	1.2797E-03
			318.3	573.0	5.345	4.710	14.404	14.404	1.0183E-03	1.0735E-03
			317.6	571.7	4.482	3.950	14.417	14.417	9.1945E-04	9.6927E-04
			310.8	559.4	4.051	3.570	14.536	14.536	2.6330E-04	2.7743E-04
			310.9	559.7	1.170	1.031	14.504	14.504	1.0387E-04	1.0944E-04
			312.6	562.7	0.462	0.407	14.504	14.504	1.6363E-04	1.7244E-04
			313.7	564.7	0.126	0.639	14.485	14.485	1.3843E-04	1.4858E-04
			314.4	566.0	0.834	3.735	14.473	14.473	4.8026E-04	5.0617E-04
					2.125	1.872				

PREF-STREAM DENSITY-VELOCITY PRODUCT = 3.6274E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

MACH 5.10 TEST NO. 158
 MACH 5.10 RUC NO. 28
 RE/METER 4.3905E 06
 RE/FT 1.3382E 06
 REL 4.0147E 06
 REL 4.0147E 06
 TM(SEC) 316.1
 TM(SEC) 316.5
 Q(BTU/FT2-SEC) 8.964
 Q(SI(W/CM2)) 7.950
 QS(BTU/FT2-SEC) 14.444
 QS(SI(W/CM2)) 14.441
 ST(0.874) 2.4788E-04
 ST(0.907) 2.0440E-03
 TIME(SEC) 2.6128E-04
 TIME(SEC) 2.1946E-03

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 4.2269E 06 3.8651E 06 0.914 14.08 11.64 1.2342E 06 1.000 1.000
 RE/FEET 1.2994E 06 3.8651E 06 3.600 207.04 2095.1 33(.72) 1.0000
 TEST NO. 158
 RUN NO. 28

CHAN	T/C	TM(DEC K)	TM(DEC K)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(IG-907)	ST(IG-874)	TIME(SEC)
21	401	319.0	377.1	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.120
22	402	319.1	377.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.130
23	403	319.1	377.1	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.265
24	404	319.4	377.7	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.283
25	405	319.4	377.7	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.306
26	406	319.8	378.0	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.346
27	407	319.8	378.0	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.375
28	408	319.8	378.0	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.400
29	409	319.7	377.9	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.428
30	410	319.7	377.9	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.457
31	411	319.1	377.1	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.481
32	412	319.6	377.6	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.507
33	413	319.6	377.6	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.531
34	414	319.6	377.6	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.557
35	415	319.6	377.6	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.581
36	416	319.6	377.6	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.605
37	417	319.6	377.6	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.629
38	418	319.2	377.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.653
39	419	319.2	377.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.677
40	420	319.2	377.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.701
41	231	319.2	377.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.725
42	232	319.2	377.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.749
43	233	319.2	377.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.773
44	234	319.9	377.9	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.797
45	235	319.9	377.9	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.821
46	236	319.9	377.9	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.845
47	237	319.4	377.4	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.869
48	238	319.4	377.4	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.893
49	239	319.0	377.0	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.917
50	240	319.0	377.0	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.941
51	241	319.0	377.0	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.965
52	242	319.0	377.0	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	0.989
53	243	320.2	378.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.013
54	244	320.2	378.2	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.037
55	245	319.7	377.7	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.061
56	246	319.7	377.7	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.085
57	247	319.9	377.9	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.109
58	248	319.9	377.9	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.133
59	249	319.8	377.8	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.157
60	250	319.8	377.8	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.181
61	251	319.4	377.4	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.205
62	252	319.4	377.4	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.229
63	253	319.4	377.4	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.253
64	254	319.7	377.7	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.277
65	255	319.6	377.6	1.81	1.041	14.878	13.130	2.6388E-04	2.7803E-04	1.301

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.56805E-01 (SLUGS/FT2-S)
 PROBE NO. = 2

*** PRELIMINARY DATA ***

MACH	5.10	RE/METER	4.0358E 06	REL	3.6913E 06	LENGTH(METER)	1.916	PT(ATM)	14.08	TT(DEG K)	1195.9	HT(JOULE/KG)	1.2715E C6	RS(METER)	0.3048	HAW/HT	1.000	TEST NO.	158
MACH	5.10	RE/FT	1.2304E 06	REL	3.6913E 06	LENGTH(FT)	3.000	PT(PST)	207.04	TT(DEG R)	2152.6	HT(BTU/LBM)	546.76	RS(FT)	1.0000	HAW/HT	1.000	RUN NO.	28

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF.										*** PRELIMINARY DATA ***												
CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)		
66	421	0.252	0.2740	0.0846	0.0890	0.0890	71	426	0.248	0.0454	0.0454	0.0518	0.0518	76	425	0.249	0.0567	0.0567	0.0648	0.0648	0.0545	0.0545
67	422	0.252	0.1581	0.1806	0.1902	0.1902	72	427	0.247	0.0197	0.0197	0.0224	0.0224	77	422	0.247	0.0197	0.0197	0.0098	0.0098	0.0104	0.0104
68	423	0.250	0.1480	0.1689	0.1779	0.1779	73	428	0.246	0.0086	0.0086	0.0002	0.0002	78	423	0.250	0.1480	0.1480	0.0002	0.0002	-0.0002	-0.0002
69	424	0.250	0.268J	0.268J	0.2823	0.2823	74	429	0.246	-0.0001	-0.0001	-0.0002	-0.0002	79	424	0.250	0.268J	0.268J	-0.0002	-0.0002	-0.0002	-0.0002
70	425	0.249	0.0567	0.0567	0.0682	0.0682	75	430	0.246	-0.0002	-0.0002	-0.0002	-0.0002	80	425	0.249	0.0567	0.0567	-0.0002	-0.0002	-0.0002	-0.0002

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RS/METER	REL	TM(DEG K)	Q(W/CM2)	C(BTU/FT2-SEC)	QS(W/CM2)	CS(BTU/FT2-SEC)	ST(DEG R)	ST(DEG R)	TIME(SEC)
5.10	4.0365E-06	3.6913E-06	315.6	1.145	1.009	15.466	13.627	2.5076E-04	2.6408E-04	0.122
			319.4	2.446	2.156	15.470	13.631	5.2564E-04	5.0407E-04	0.146
			316.0	2.298	2.025	15.520	13.683	5.0117E-04	5.2766E-04	0.569
			316.5	1.763	0.937	15.520	13.675	2.3196E-04	2.4423E-04	0.207
			314.9	0.982	0.777	15.549	13.701	1.9212E-04	2.0226E-04	0.131
			314.1	0.706	0.622	15.563	13.713	1.5367E-04	1.6177E-04	0.154
			312.6	0.307	0.270	15.589	13.736	6.5562E-05	7.0065E-05	0.201
			311.6	0.135	0.119	15.603	13.749	2.9208E-05	3.0743E-05	0.406
			311.6	-0.002	-0.002	15.606	13.751	-4.9881E-07	-5.2502E-07	1.1878
			311.8	-0.003	-0.003	15.603	13.748	-6.2680E-07	-6.5344E-07	2.481

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.4942E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 29

Consensus Set 411

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ***
 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT
 1.3357E 06 4.75 1147.5 1.2150E 06 0.3048 1.000
 REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAM/HT
 1.3357E 05 69.84 2065.5 522.42 1.0000 1.000

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.258	0.0035	0.0140	0.0042	0.0042	11	211	0.259	0.0587	0.0587	0.0672	0.0708
2	202	0.258	0.0090	0.0103	0.0108	0.0108	12	212	0.259	0.0615	0.0606	0.0693	0.0730
3	203	0.258	0.0299	0.0299	0.0361	0.0361	13	213	0.259	0.0553	0.0553	0.0632	0.0666
4	204	0.259	0.0398	0.0455	0.0479	0.0479	14	214	0.259	0.0512	0.0512	0.0586	0.0617
5	205	0.259	0.0376	0.0430	0.0453	0.0453	15	215	0.259	0.0581	0.0581	0.0664	0.0700
6	206	0.259	0.0502	0.0575	0.0605	0.0605	16	216	0.257	0.0506	0.0506	0.0607	0.0607
7	207	0.258	0.0689	0.0787	0.0830	0.0830	17	217	0.258	-0.0001	-0.0001	-0.0001	-0.0001
8	208	0.259	0.0705	0.0806	0.0850	0.0850	18	218	0.258	0.0011	0.0011	0.0013	0.0013
9	209	0.259	0.0618	0.0707	0.0745	0.0745	19	219	0.258	0.0040	0.0040	0.0046	0.0046
10	210	0.259	0.0568	0.0650	0.0685	0.0685	20	220	0.258	0.0720	0.0720	0.0752	0.0752

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.4524E 05 1.3357E 06 3.300 Q (M/CM2) Q (BTU/FT2-SEC) Q (BTU/FT2-SEC) Q (BTU/FT2-SEC) ST (0.907) ST (0.874) TIME (SEC)
 RE/METER 312.0 TM (DEG K) 561.5 562.3 562.8 563.1 563.3 564.0 564.1 564.6 564.6 564.8 564.8 564.6 564.6 563.9 563.5 560.5 560.9 561.7 562.4 562.8
 LENGTH(METER) 3.314 4.75 1147.5 1.2150E 06 3.348 RS (METER) HAM/HT 1.000 TEST NO. 158
 RE/FT 1.3357E 06 3.300 PT (PSI) 69.84 TT (DEG R) 2085.5 QS (W/CM2) QS (BTU/FT2-SEC) QS (BTU/FT2-SEC) QS (BTU/FT2-SEC) ST (0.907) ST (0.874) TIME (SEC)
 LENGTH(FT) 3.300 69.84 2085.5 522.48 RS (FT) HAM/HT 1.000 RUN NO. 29

CHAN	T/C	TM (DEG K)	Q (M/CM2)	Q (BTU/FT2-SEC)	Q (BTU/FT2-SEC)	Q (BTU/FT2-SEC)	Q (BTU/FT2-SEC)	QS (W/CM2)	QS (BTU/FT2-SEC)	QS (BTU/FT2-SEC)	QS (BTU/FT2-SEC)	ST (0.907)	ST (0.874)	TIME (SEC)
1	201	312.0	0.30	0.026	0.533	7.519	1.0782E-05	8.523	7.519	5.0923E-05	5.3652E-05	2.0841E-05	2.0841E-05	-1.688
2	202	312.4	0.077	0.068	8.523	7.515	5.0923E-05	8.523	7.515	1.6956E-04	1.7865E-04	5.3652E-05	5.3652E-05	-1.374
3	203	312.7	0.255	0.225	8.526	7.512	1.6956E-04	8.526	7.512	2.2530E-04	2.3738E-04	1.6956E-04	1.7865E-04	-1.512
4	204	312.8	0.335	0.299	8.524	7.511	2.2530E-04	8.524	7.511	2.1286E-04	2.2428E-04	2.2530E-04	2.3738E-04	-0.596
5	205	313.0	0.320	0.282	8.523	7.510	2.1286E-04	8.523	7.510	2.4456E-04	2.5985E-04	2.1286E-04	2.2428E-04	-2.264
6	206	313.3	0.428	0.377	8.519	7.507	2.4456E-04	8.519	7.507	3.8998E-04	4.1090E-04	2.4456E-04	2.5985E-04	-0.555
7	207	313.4	0.587	0.517	8.519	7.506	3.8998E-04	8.519	7.506	3.5933E-04	4.2077E-04	3.8998E-04	4.1090E-04	-0.403
8	208	313.7	0.504	0.429	8.515	7.503	3.5933E-04	8.515	7.503	3.5008E-04	3.6887E-04	3.5933E-04	4.2077E-04	0.098
9	209	313.8	0.464	0.426	8.514	7.502	3.5008E-04	8.514	7.502	3.2193E-04	3.3921E-04	3.5008E-04	4.2077E-04	0.120
10	210	313.8	0.464	0.426	8.514	7.502	3.2193E-04	8.514	7.502	3.259E-04	3.5044E-04	3.2193E-04	3.3921E-04	0.097
11	211	313.7	0.500	0.441	8.516	7.503	3.4303E-04	8.516	7.503	2.4303E-04	3.6145E-04	3.4303E-04	3.5044E-04	0.141
12	212	313.7	0.516	0.454	8.516	7.503	3.4303E-04	8.516	7.503	3.1297E-04	3.2977E-04	3.4303E-04	3.6145E-04	0.074
13	213	313.7	0.471	0.415	8.516	7.503	3.1297E-04	8.516	7.503	2.9001E-04	3.0557E-04	3.1297E-04	3.2977E-04	0.065
14	214	313.3	0.436	0.384	8.519	7.507	2.9001E-04	8.519	7.507	3.2894E-04	3.4658E-04	2.9001E-04	3.0557E-04	0.090
15	215	313.1	0.495	0.436	8.522	7.509	3.2894E-04	8.522	7.509	3.3130E-06	3.4903E-06	3.2894E-04	3.4658E-04	-3.873
16	216	311.4	0.705	0.604	8.539	7.524	-4.6979E-07	8.539	7.524	-4.6979E-07	-4.9494E-07	3.3130E-06	3.4903E-06	11.630
17	217	311.6	-0.001	-0.001	8.536	7.522	0.008	8.536	7.522	6.3889E-06	6.6785E-06	-4.6979E-07	-4.9494E-07	-0.936
18	218	312.0	0.710	0.608	8.532	7.518	0.030	8.532	7.518	2.7767E-05	2.9887E-05	6.3889E-06	6.6785E-06	0.154
19	219	312.4	0.34	0.300	8.528	7.514	0.166	8.528	7.514	1.2476E-04	1.3147E-04	2.7767E-05	2.9887E-05	0.362
20	220	312.7	0.188	0.166	8.526	7.512		8.526	7.512			1.2476E-04	1.3147E-04	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2168E-01 (SLUGS/FT2-SEC)

PROBE NU.= 1

PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 29

PS (METER) 3048
 RS (FT) 1.000
 HAM/HT 1.000

HT (JOULE/KG) 1173.4
 HT (BTU/LBM) 533.94

TT (DEG K) 4.75
 TT (DEG R) 2106.7

PT (PSI) 67.84
 PT (DEG R) 2106.7

REL LENGTH (METER) 0.914
 REL LENGTH (FT) 3.000

REL LENGTH (METER) 1.2918E 06
 REL LENGTH (FT) 4.3055E 05

CHAN	T/C	TM (DEG K)	TM (DEG R)	Q (W/CM2)	Q (BTU/FT2-SEC)	QS (W/CM2)	QS (BTU/FT2-SEC)	ST (U.907)	ST (U.874)	TIME (SEC)
21	411	315.1	567.1	1.133	0.998	8.751	7.711	7.4328E-04	7.8289E-04	0.405
22	412	314.8	566.6	0.989	0.871	8.754	7.713	6.4878E-04	6.8335E-04	0.379
23	413	314.5	566.1	0.781	0.588	8.757	7.716	5.1186E-04	5.3912E-04	0.542
24	414	314.1	565.4	0.260	0.230	8.760	7.719	1.7073E-04	1.7982E-04	0.580
25	415	313.5	564.2	0.19	0.105	8.767	7.725	7.7992E-05	8.2140E-05	0.586
26	231	313.7	564.6	0.110	0.009	8.765	7.723	6.5339E-06	6.8815E-06	0.171
27	232	312.9	563.3	0.014	0.013	8.772	7.730	9.4581E-06	9.9608E-06	0.445
28	233	315.7	568.3	0.229	0.023	8.744	7.705	1.8918E-05	1.9920E-05	0.769
29	234	313.1	563.6	0.164	0.145	8.771	7.728	1.0768E-04	1.1341E-04	0.551
30	235	313.3	564.0	0.909	0.801	8.759	7.726	3.756E-04	3.2391E-04	0.520
31	236	313.6	564.4	1.494	1.316	8.766	7.724	5.9539E-04	6.2705E-04	0.526
32	237	314.0	565.1	4.258	3.664	8.762	7.721	9.7899E-04	1.0311E-03	0.526
33	238	314.2	565.5	2.625	2.313	8.760	7.719	4.7257E-03	2.8708E-03	0.621
34	239	314.2	565.6	4.373	3.854	8.755	7.718	1.7206E-03	1.8122E-03	0.621
35	240	314.7	566.4	2.197	1.911	8.756	7.714	2.8686E-03	3.0214E-03	0.497
36	241	314.6	566.2	3.588	3.161	8.752	7.715	1.6352E-03	1.7223E-03	0.575
37	242	315.0	567.0	2.180	1.921	8.752	7.711	2.3547E-03	2.4795E-03	0.584
38	243	315.4	567.8	1.854	1.634	8.748	7.708	1.4509E-03	1.5072E-03	0.551
39	244	315.3	567.5	1.119	1.514	8.749	7.707	1.281E-03	1.2821E-03	0.551
40	245	315.4	567.8	1.660	1.294	8.747	7.707	1.1281E-03	1.1882E-03	0.536
41	246	315.4	567.8	1.672	1.273	8.746	7.706	9.6440E-04	1.0158E-03	0.558
42	247	315.6	568.0	1.445	1.273	8.746	7.706	1.0978E-03	1.1564E-03	0.549
43	248	315.3	567.5	1.400	1.234	8.749	7.709	9.4826E-04	9.9881E-04	0.543
44	249	315.2	567.4	1.357	1.234	8.749	7.709	9.1916E-04	9.6816E-04	0.539
45	250	315.0	566.9	1.001	1.195	8.752	7.712	8.9016E-04	9.3769E-04	0.523
46	255	313.5	564.3	0.001	0.001	8.767	7.725	-0.7203E-07	-0.7078E-07	0.828
47	256	313.7	564.7	0.240	0.035	8.765	7.723	2.5197E-05	2.7591E-05	0.618
48	257	314.1	565.4	0.135	0.119	8.761	7.719	8.8410E-05	9.3117E-05	0.645
49	258	314.8	566.7	0.225	0.198	8.753	7.713	1.4774E-04	1.5562E-04	0.592
50	259	315.1	567.2	0.424	0.424	8.751	7.710	3.1577E-04	3.3260E-04	0.565
51	265	313.7	564.8	0.005	0.004	8.765	7.723	3.0410E-06	3.2028E-06	2.175
52	266	313.8	564.8	0.003	0.002	8.764	7.722	1.7723E-06	1.8666E-06	0.071
53	267	313.9	565.1	0.011	0.010	8.762	7.721	7.1640E-06	7.5453E-06	-0.125
54	268	314.7	566.4	0.073	0.064	8.755	7.714	4.7643E-05	5.0181E-05	0.645
55	269	315.1	567.2	0.262	0.230	8.751	7.710	1.7165E-04	1.8089E-04	0.445

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1986E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEC KI)	HT(JOULE/KG)	RS(METER)	HA/W/HT	TEST NO.	158	RS(FT)	HA/W/HT	1.000	HA/W/HT	1.000	HA/W/HT
5.10	1.3784E 06	1.2604E 06	0.914	1187.4	1.2616E 06	0.3046	1.000	29		1.000	1.000	1.000	1.000	1.000	1.000
5.10	4.2013E 05	1.2604E 06	3.000	2137.3	542.50	1.0000	1.000			1.0000	1.000	1.000	1.000	1.000	1.000
CHAN	T/C	HW/HT	Q/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C
56	271	0.251	0.0018	0.0018	0.0020	0.0021	66	281	0.254	0.7856	0.7858	0.8976	0.9454		
57	272	0.251	0.0020	0.0020	0.0023	0.0024	67	282	0.254	0.6414	0.6414	0.7328	0.7718		
58	273	0.251	0.0033	0.0032	0.0037	0.0039	68	283	0.253	0.3109	0.3109	0.3551	0.3740		
59	274	0.251	0.0062	0.0062	0.0071	0.0075	69	284	0.255	0.2937	0.2937	0.3356	0.3535		
60	275	0.251	0.0356	0.0356	0.0406	0.0428	70	285	0.255	0.2420	0.2420	0.2765	0.2913		
61	276	0.251	0.0900	0.0900	0.1028	0.1062	71	286	0.255	0.2195	0.2195	0.2509	0.2642		
62	277	0.252	0.1446	0.1446	0.1651	0.1738	72	287	0.256	0.2159	0.2159	0.2467	0.2599		
63	278	0.252	0.2320	0.2320	0.2649	0.2790	73	288	0.256	0.2091	0.2091	0.2389	0.2517		
64	279	0.252	0.2982	0.2982	0.3406	0.3567	74	289	0.257	0.2030	0.2030	0.2321	0.2445		
65	280	0.252	0.7981	0.7981	0.9117	0.9601	75	290	0.256	0.1931	0.1931	0.2208	0.2325		

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.2013E 05 1.2604E 06 3.370 0.914 4.75 1187.4 1.2616E 06 0.3048 1.000 1.000
 RE/FEET 4.2013E 05 1.2604E 06 3.370 0.914 4.75 1187.4 1.2616E 06 0.3048 1.000 1.000
 REL LENGTH(METER) 1.2604E 06 3.370 0.914 4.75 1187.4 1.2616E 06 0.3048 1.000 1.000
 PT(ATM) 4.75 1187.4 1.2616E 06 0.3048 1.000 1.000
 RSIMETER) 0.3048 1.000 1.000
 HAW/HT 1.000 1.000
 TEST NO. 158
 RUN NO. 29

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(O.907)	ST(O.874)	TIME(SEC)
56	271	314.9	566.8	0.014	0.014	8.938	7.876	1.0323E-05	1.0869E-05	0.892
57	272	314.9	566.9	0.016	0.016	8.938	7.875	1.1713E-05	1.2334E-05	0.653
58	273	315.1	567.2	0.029	0.026	8.936	7.874	1.8945E-05	1.9949E-05	0.766
59	274	315.2	567.3	0.055	0.049	8.935	7.873	3.5948E-05	3.7852E-05	0.578
60	275	315.5	567.9	0.318	0.280	8.932	7.870	2.0646E-04	2.1740E-04	0.329
61	276	315.7	568.3	0.804	0.708	8.930	7.869	5.2227E-04	5.4995E-04	0.271
62	277	316.0	568.8	1.291	1.137	8.927	7.866	8.3808E-04	8.8315E-04	0.227
63	278	316.6	569.8	2.069	1.823	8.921	7.861	1.3457E-03	1.4171E-03	0.109
64	279	317.1	570.8	2.459	2.343	8.916	7.856	1.7301E-03	1.8220E-03	0.043
65	280	317.9	572.1	7.110	6.265	8.908	7.849	4.6308E-03	4.8799E-03	0.151
66	281	318.6	573.5	6.994	6.163	8.901	7.843	4.5593E-03	4.8018E-03	0.019
67	282	319.2	574.5	5.706	5.027	8.895	7.838	3.7220E-03	3.9201E-03	0.406
68	283	317.7	571.9	2.773	2.441	8.910	7.851	1.8040E-03	1.8948E-03	0.674
69	284	320.3	576.6	2.609	2.299	8.883	7.827	1.7043E-03	1.7952E-03	0.419
70	285	320.7	577.3	2.149	1.893	8.879	7.824	1.4045E-03	1.4794E-03	0.372
71	286	320.8	577.4	1.949	1.727	8.879	7.823	1.2740E-03	1.3419E-03	0.366
72	287	321.1	578.0	1.916	1.688	8.875	7.820	1.2530E-03	1.3199E-03	0.359
73	288	321.4	578.5	1.855	1.634	8.872	7.818	1.2133E-03	1.2781E-03	0.392
74	289	322.4	580.3	1.799	1.585	8.862	7.809	1.1784E-03	1.2414E-03	0.323
75	290	321.9	579.5	1.713	1.509	8.867	7.813	1.1210E-03	1.1809E-03	0.322

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1052E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 30
 CONSTANT SET 412

REL LENGTH(METER) 3.914
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 2.2994E 06
 REL LENGTH(FT) 2.2994E 06

PT(ATM) 8.11
 PT(PST) 119.22
 TT(DEG K) 1141.8
 TT(DEG R) 2055.2

RS(METER) 0.3048
 RS(FT) 1.0000
 HW/HT 1.0000
 HW/HT 1.0000

HY(JOULE/KG) 1.2003E 06
 HY(BTU/LBM) 519.61

Q/QS
 H/HS(1.000)
 H/HS(0.907)
 H/HS(0.874)

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.261	0.0085	0.0085	0.0098	0.0103	11	211	0.265	0.0925	0.0925	0.1058	0.1115
2	212	0.261	0.0290	0.0324	0.0332	0.0350	12	212	0.263	0.0946	0.0946	0.1083	0.1141
3	203	0.262	0.0893	0.0993	0.1022	0.1077	13	213	0.263	0.0836	0.0836	0.0956	0.1008
4	204	0.262	0.1010	0.1010	0.1156	0.1218	14	214	0.262	0.0757	0.0757	0.0867	0.0913
5	205	0.262	0.0952	0.1089	0.1148	0.1148	15	215	0.262	0.0907	0.0907	0.1038	0.1094
6	206	0.262	0.0898	0.1028	0.1084	0.1084	16	216	0.260	0.0024	0.0024	0.0029	0.0029
7	207	0.263	0.1500	0.1500	0.1717	0.1899	17	217	0.260	0.0005	0.0005	0.0006	0.0006
8	208	0.263	0.1237	0.1237	0.1416	0.1493	18	218	0.261	0.0035	0.0035	0.0040	0.0042
9	209	0.263	0.1052	0.1052	0.1204	0.1269	19	219	0.261	0.0072	0.0072	0.0082	0.0087
10	210	0.263	0.0873	0.0873	0.0999	0.1053	20	220	0.261	0.0251	0.0251	0.0287	0.0303

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MAG# REV/METER REL LENGTH(METER) PT(ATM) TT(DEG KI) HT(JOULE/KG) PS(METER) HAM/HT TEST NO. 158
 5.10 2.5245E 06 2.2904E 06 8.11 1741.6 1.2083E 06 0.2048 1.000
 MAG# RE/FT REL LENGTH(FT) P1(PSI) TT(DEG R) HT(LB/FT) RS(FT) HAM/HT RUN NO. 30
 5.20 7.6646E 06 2.2994E 06 119.22 2055.2 519.61 1.0000 1.000

CH#	T/C	TM(DEG KI)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C-907)	ST(O-874)	TIME(SEC)
1	201	313.4	564.2	0.094	0.083	11.047	9.734	3.6931E-05	3.8917E-05	-2.930
2	202	314.2	565.5	0.120	0.282	11.037	9.725	1.2540E-04	1.3215E-04	-1.051
3	203	314.8	566.6	0.985	0.868	11.029	9.718	3.8580E-04	4.0659E-04	-0.934
4	204	315.0	567.0	1.114	0.982	11.026	9.715	4.3655E-04	4.6008E-04	-0.151
5	205	315.4	567.7	1.149	0.925	11.021	9.711	4.1137E-04	4.3356E-04	-1.568
6	206	315.8	568.4	0.990	0.872	11.016	9.706	3.8818E-04	4.0913E-04	-0.303
7	207	315.9	568.6	1.652	1.456	11.014	9.705	6.4819E-04	6.8317E-04	-0.030
8	208	316.4	569.6	1.362	1.200	11.007	9.699	5.3467E-04	5.6355E-04	0.294
9	209	316.6	569.8	1.158	1.020	11.005	9.697	4.5454E-04	4.7910E-04	0.242
10	210	316.4	569.5	0.961	0.846	11.008	9.699	3.7706E-04	3.9742E-04	0.240
11	211	316.3	569.4	1.118	0.897	11.008	9.700	4.0690E-04	4.2117E-04	0.277
12	212	316.3	569.4	1.118	0.897	11.008	9.700	3.9959E-04	4.3098E-04	0.211
13	213	316.2	569.1	0.920	0.811	11.010	9.701	3.6114E-04	3.8063E-04	0.201
14	214	315.6	568.2	0.834	0.735	11.017	9.708	3.2725E-04	3.4490E-04	0.249
15	215	315.3	567.5	1.100	0.881	11.022	9.712	4.9194E-04	4.1307E-04	-3.728
16	216	312.5	562.5	0.227	0.023	11.059	9.744	1.5361E-05	1.0918E-05	-5.682
17	217	312.8	563.0	0.106	0.005	11.035	9.741	2.2763E-06	2.3987E-06	-1.082
18	218	313.5	564.2	0.059	0.034	11.046	9.733	1.5082E-05	1.5893E-05	-0.102
19	219	314.0	565.2	0.179	0.070	11.039	9.727	3.1067E-05	3.2739E-05	-0.233
20	220	314.4	566.0	0.177	0.244	11.033	9.722	1.0847E-04	1.1431E-04	0.089

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0849E-01 (SLUGS/FT2-SEC)

PROBE NO.# 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH		REL		H/HS(1.000)		H/HS(C.907)		H/HS(C.874)					
5.10	2.3084E 06	2.1656E 06	0.914	0.1403	0.1603	0.1688	0.1603	0.1688	0.1688				
5.10	7.2188E 05	2.1656E 06	3.000	0.1403	0.1603	0.1688	0.1603	0.1688	0.1688				
TEST NO.	158	TEST NO.	30	TEST NO.	158	TEST NO.	30	TEST NO.	158				
RUN NO.	30	RUN NO.	30	RUN NO.	158	RUN NO.	30	RUN NO.	158				
CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(C.907)	H/HS(C.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(C.907)	H/HS(C.874)
21	411	0.253	0.1403	0.1403	0.1603	0.1688	39	244	0.254	0.2903	0.2903	0.3317	0.3493
22	412	0.253	0.1342	0.1342	0.1533	0.1614	40	245	0.254	0.2437	0.2437	0.2784	0.2532
23	413	0.253	0.1184	0.1184	0.1352	0.1424	41	246	0.254	0.2305	0.2305	0.2290	0.2412
24	414	0.252	0.0457	0.0457	0.0322	0.0349	42	247	0.254	0.2349	0.2349	0.2684	0.2827
25	415	0.252	0.0282	0.0282	0.0322	0.0339	43	248	0.253	0.2013	0.2013	0.2300	0.2422
26	231	0.251	0.0080	0.0080	0.0091	0.0096	44	249	0.253	0.1966	0.1966	0.2245	0.2365
27	232	0.251	0.0129	0.0129	0.0148	0.0156	45	250	0.253	0.2001	0.2001	0.2285	0.2407
28	233	0.253	0.0318	0.0318	0.0363	0.0383	46	255	0.251	0.0015	0.0015	0.0017	0.0018
29	234	0.251	0.0911	0.0911	0.1040	0.1096	47	256	0.251	0.0186	0.0186	0.0212	0.0224
30	235	0.251	0.1773	0.1773	0.2025	0.2132	48	257	0.252	0.0425	0.0425	0.0497	0.0523
31	236	0.252	0.2638	0.2638	0.3012	0.3172	49	258	0.253	0.0557	0.0557	0.0636	0.0670
32	237	0.252	0.3561	0.3561	0.4067	0.4283	50	259	0.253	0.0995	0.0995	0.1137	0.1197
33	238	0.253	0.9156	0.9156	1.0457	1.1012	51	265	0.251	0.0026	0.0026	0.0030	0.0031
34	239	0.253	0.5553	0.5553	0.6343	0.6679	52	266	0.251	-0.0024	-0.0024	-0.0027	-0.0028
35	240	0.253	0.8369	0.8369	0.9560	1.0060	53	267	0.252	0.0260	0.0260	0.0297	0.0313
36	241	0.253	0.4821	0.4821	0.5506	0.5799	54	268	0.252	0.0000	0.0000	0.0000	0.0000
37	242	0.254	0.6621	0.6621	0.7563	0.7966	55	269	0.253	0.0571	0.0571	0.0653	0.0687
38	243	0.254	0.3520	0.3520	0.4021	0.4235							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.11 7.2199E 06 2.1655E 06 3.914
 REL LENGTH(METER) 8.11 119.22 2129.1
 REL LENGTH(FT) 26.6 390.0 6957.8
 RS(METER) 0.3148 1.0000
 TEST NO. 158
 RUN NO. 30

CHAN	T/C	TI(DEG K)	TI(DEG R)	Q1(BTU/FT2-SEC)	Q2(BTU/FT2-SEC)	Q3(IN/CM2)	QS(BTU/FT2-SEC)	ST(C-907)	ST(O-874)	TIME(SEC)
21	411	317.0	570.7	1.632	11.584	10.207	6.2151E-04	6.5656E-04	C.334	
22	42	360.6	769.8	1.370	11.590	10.215	5.9415E-04	6.2573E-04	C.288	
23	413	316.2	559.1	1.373	11.596	10.217	5.2420E-04	5.5210E-04	C.145	
24	414	315.5	567.9	1.330	11.604	10.205	2.0231E-04	2.1305E-04	C.422	
25	415	314.7	566.4	1.289	11.615	10.215	1.3490E-04	1.3152E-04	C.398	
26	231	313.7	564.6	-0.093	11.628	10.246	-3.5350E-05	-3.7222E-05	1.020	
27	232	313.8	564.8	1.132	11.627	10.245	5.7324E-05	6.0360E-05	C.468	
28	233	316.7	570.0	1.325	11.589	10.211	1.4090E-04	1.4839E-04	C.672	
29	234	314.1	565.5	1.359	11.622	10.241	4.1344E-04	4.2482E-04	C.324	
30	235	314.5	566.2	1.815	11.617	10.236	7.8517E-04	8.2579E-04	C.299	
31	236	314.9	566.9	2.699	11.612	10.231	1.1680E-03	1.2340E-03	C.189	
32	237	315.7	568.2	3.641	11.602	10.223	1.5770E-03	1.6607E-03	C.179	
33	238	315.9	568.5	9.358	11.600	10.221	4.0544E-03	4.2596E-03	C.310	
34	239	316.0	568.8	6.440	11.597	10.219	2.4591E-03	2.5898E-03	C.585	
35	240	316.8	570.2	8.545	11.588	10.210	3.7003E-03	3.9033E-03	C.320	
36	241	316.6	569.8	4.923	11.590	10.212	2.1347E-03	2.2482E-03	C.460	
37	242	317.0	571.0	6.756	11.581	10.205	2.9221E-03	3.0881E-03	C.526	
38	243	317.8	572.0	4.074	11.574	10.198	1.3188E-03	1.6418E-03	C.546	
39	244	317.8	572.1	2.961	11.573	10.190	1.2858E-03	1.3542E-03	C.529	
40	245	317.4	571.4	2.821	11.578	10.202	1.0792E-03	1.1366E-03	C.493	
41	246	317.2	570.9	2.046	11.582	10.205	8.6783E-04	9.3505E-04	C.484	
42	247	317.4	571.2	2.397	11.580	10.203	1.2405E-03	1.0959E-03	C.482	
43	248	316.9	570.4	3.055	11.586	10.209	8.9156E-04	9.3897E-04	C.479	
44	249	316.7	570.1	2.322	11.588	10.211	8.7051E-04	9.1679E-04	C.479	
45	250	316.4	569.6	2.044	11.592	10.214	3.8602E-04	9.3310E-04	C.466	
46	255	313.8	564.9	0.118	11.626	10.239	5.7123E-06	7.0680E-06	C.361	
47	256	314.3	565.7	0.190	11.620	10.234	8.2317E-05	5.6072E-05	C.495	
48	257	315.1	567.1	0.445	11.610	10.230	1.9267E-04	2.0289E-04	C.491	
49	258	316.2	569.2	0.569	11.595	10.216	2.4673E-04	2.5983E-04	C.459	
50	259	316.6	569.9	1.016	11.589	10.212	4.4973E-04	4.6418E-04	C.531	
51	265	314.2	565.6	0.027	11.622	10.240	1.1491E-05	1.2100E-05	C.763	
52	266	314.3	565.8	-0.027	11.620	10.239	-1.0421E-05	-1.0973E-05	C.368	
53	267	314.6	566.2	0.266	11.617	10.236	1.1527E-04	1.2138E-04	C.527	
54	268	-0.0	-0.0	*****	*****	*****	*****	*****	C.000	
55	269	316.3	569.4	1.584	11.593	10.215	2.5504E-04	2.6549E-04	C.468	

FREESTREAM DENSITY-VELOCITY PRODUCT = 2.0292E-01 (SLUGS/FT2-SEC)

PROBE NO. : 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH 3.1					TEST NO. 15R					
MACH 5.1					RUN NO. 30					
REF/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
REF/FT	REL	LENGTH(FT)	PI(PSSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
2.2978E 05	2.101E 06	2.314	8.11	1204.0	1.281CE 06	0.2048	1.000			
7.0037E 05	2.101E 06	3.000	119.22	2167.2	550.85	1.0000	1.000			
CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS
56	271	0.247	0.0016	0.0016	0.0019	0.0019	66	281	0.251	1.4196
57	272	0.244	0.0049	0.0056	0.0059	0.0059	67	282	0.252	0.7837
58	273	0.248	0.0063	0.0072	0.0076	0.0076	68	283	0.251	0.4022
59	274	0.248	0.0370	0.0422	0.0445	0.0445	69	284	0.253	0.3578
60	275	0.248	0.1739	0.1985	0.2089	0.2089	70	285	0.254	0.2720
61	276	0.248	0.3310	0.3778	0.3977	0.3977	71	286	0.254	0.2332
62	277	0.249	0.4575	0.5221	0.5497	0.5497	72	287	0.254	0.2262
63	278	0.249	0.6330	0.7225	0.7607	0.7607	73	288	0.255	0.2036
64	279	0.250	0.7269	0.8298	0.8737	0.8737	74	289	0.256	0.2211
65	280	0.251	1.5724	1.7952	1.8902	1.8902	75	290	0.255	0.2270

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	
5.1	2.2378E-02	2.101E-05	5.914	8.11	1204.0	1.2810E-06	7.3748	1.000	30	
5.10	7.0027E-03	2.0022E-05	3.400	119.22	2167.2	55.8E	1.0000	1.000	30	
CHAN	T/C	TM(DEG K)	TM(DEG R)	QIM/CM2	QIBTU/FT2-SEC	QS(W/GM2)	QS(BTU/FT2-SFC)	ST(7.907)	ST(0.874)	TIME(SEC)
66	271	315.6	568.1	0.219	6.017	11.905	10.490	7.0969E-06	7.4707E-06	-0.780
67	272	315.7	568.2	0.258	6.251	11.903	10.489	2.1580E-05	2.3138E-05	0.360
68	273	315.8	568.3	0.175	6.066	11.902	10.487	2.8381E-05	2.9876E-05	-0.918
69	274	316.1	569.0	0.740	6.388	11.898	10.483	1.6598E-04	1.7473E-04	0.315
70	275	316.5	569.3	2.268	6.822	11.892	10.479	7.7986E-04	8.2098E-04	0.273
71	276	316.9	570.4	5.635	7.467	11.888	10.475	1.3843E-03	1.5626E-03	0.233
72	277	317.3	571.1	5.436	7.790	11.882	10.470	2.0515E-03	2.1598E-03	0.212
73	278	318.1	572.5	7.514	8.521	11.872	10.461	2.8386E-03	2.9885E-03	0.145
74	279	319.7	573.6	8.524	9.599	11.860	10.454	3.7601E-03	3.9325E-03	0.099
75	280	319.7	575.5	18.553	15.418	11.850	10.442	7.4521E-03	7.9255E-03	0.189
76	281	310.7	577.3	16.803	14.806	11.836	10.429	6.7676E-03	7.231E-03	0.089
77	282	311.5	578.7	9.809	8.807	11.826	10.421	3.7155E-03	3.9726E-03	0.223
78	283	323.2	576.4	4.763	4.197	11.843	10.435	1.8039E-03	1.8995E-03	0.666
79	284	323.0	581.4	4.224	3.722	11.806	10.403	1.5049E-03	1.6003E-03	0.412
80	285	323.7	582.6	3.708	3.027	11.797	10.395	1.1201E-03	1.2850E-03	0.340
81	286	323.8	583.8	2.751	2.424	11.796	10.394	1.1463E-03	1.1620E-03	0.294
82	287	324.2	583.5	2.868	2.350	11.791	10.389	1.1451E-03	1.0691E-03	0.255
83	288	325.0	585.0	2.999	2.114	11.780	10.380	9.1363E-04	9.6232E-04	0.233
84	289	326.0	586.3	2.602	2.292	11.766	10.368	9.9211E-04	1.0450E-03	0.221
85	290	325.3	585.5	2.673	2.355	11.776	10.376	1.0184E-03	1.0727E-03	0.224

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0014E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 2.10 3.530E 06 3.233E 06 2.914 11.38 1145.8 1.2142E 06 1.000 1.000 1.000
 MACH 5.1. 1.0679E 06 5.237E 06 5.000 167.34 2764.2 522.12 1.000 1.000 1.000

CHAN	T/C	TM(DEG K)	TM(DEG P)	Q(W/CM2)	Q(STU/FT2-SEC)	OS(W/CM2)	OS(STU/FT2-SEC)	CS(BTU/FT2-SEC)	CS(BTU/FT2-SEC)	STIG(DEG)	STIG(R74)	TIME(SEC)
1	201	315.7	568.3	1.710	1.507	13.137	13.116	4.7621E-04	5.0166E-04	5.0166E-04	C.344	
2	202	317.0	570.5	3.017	2.658	13.116	13.102	5.4152E-04	5.8691E-04	5.8691E-04	C.370	
3	203	317.9	572.3	8.329	7.251	13.102	13.095	4.2983E-03	2.5222E-03	2.5222E-03	C.353	
4	204	318.4	573.1	6.784	5.537	13.095	13.089	1.7557E-03	1.8506E-03	1.8506E-03	C.583	
5	205	318.7	573.7	9.223	8.127	13.089	13.079	2.0762E-03	2.7176E-03	2.7176E-03	C.228	
6	206	319.4	574.9	5.394	4.752	13.079	13.078	1.0009E-03	1.5906E-03	1.5906E-03	C.468	
7	207	319.5	575.0	7.644	6.735	13.078	13.067	2.1366E-03	2.2344E-03	2.2344E-03	C.375	
8	208	320.4	575.3	4.479	3.947	13.067	13.064	1.0392E-03	1.3223E-03	1.3223E-03	C.634	
9	209	320.4	576.7	3.710	3.269	13.064	13.071	1.0392E-03	1.0955E-03	1.0955E-03	C.624	
10	210	319.9	575.9	3.129	2.757	13.071	13.071	8.7587E-04	9.2330E-04	9.2330E-04	C.593	
11	211	319.9	575.8	3.459	3.136	13.071	13.071	9.9641E-04	1.0504E-03	1.0504E-03	C.598	
12	212	319.9	575.9	3.036	3.036	13.071	13.076	9.6471E-04	1.0170E-03	1.0170E-03	C.605	
13	213	319.6	575.2	3.519	3.101	13.076	13.089	9.8482E-04	1.0381E-03	1.0381E-03	C.599	
14	214	318.8	573.8	3.177	2.800	13.089	13.103	8.9818E-04	9.3620E-04	9.3620E-04	C.597	
15	215	317.9	573.8	3.591	3.252	13.103	13.103	1.0305E-03	1.0862E-03	1.0862E-03	C.607	
16	216	314.1	565.4	0.567	0.588	13.162	13.159	1.8547E-04	1.9444E-04	1.9444E-04	C.341	
17	217	314.3	565.8	0.262	0.293	13.159	13.159	7.2727E-05	7.6635E-05	7.6635E-05	C.394	
18	218	315.6	568.1	0.446	0.450	13.138	13.124	1.2406E-04	1.3074E-04	1.3074E-04	C.439	
19	219	316.6	569.8	0.210	0.450	13.124	13.115	1.4728E-04	1.4995E-04	1.4995E-04	C.491	
20	220	317.1	570.8	1.223	1.077	13.115	13.115	3.4107E-04	3.5947E-04	3.5947E-04	C.591	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9167E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH	REL LENGTH				
5.10	3.3364E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06				
5.10	3.3364E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06	3.0508E 06				
CHAN	T/C	HW/HT	Q/QS	H/MS(1.000)	F/H(SI-907)	H/MS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
21	411	0.257	0.1321	0.1321	0.1510	0.1591	39	244	0.258	0.3295	0.3295	0.3767	0.3969
22	412	0.256	0.1571	0.1571	0.1793	0.1891	40	245	0.257	0.2876	0.2876	0.3208	0.3464
23	413	0.256	0.1422	0.1422	0.1626	0.1712	41	246	0.257	0.2437	0.2437	0.2784	0.2934
24	414	0.255	0.0534	0.0534	0.0610	0.0642	42	247	0.257	0.3090	0.3090	0.3532	0.3721
25	415	0.254	0.0347	0.0347	0.0396	0.0417	43	248	0.256	0.2642	0.2642	0.3020	0.3181
26	231	0.253	-0.0078	-0.0078	-0.0090	-0.0094	44	249	0.256	0.2605	0.2605	0.2977	0.3136
27	232	0.253	0.0867	0.0867	0.0989	0.1041	45	250	0.255	0.2847	0.2847	0.3254	0.3427
28	233	0.255	0.1331	0.1331	0.1521	0.1602	46	255	0.252	0.0080	0.0080	0.0091	0.0096
29	234	0.255	0.2546	0.2546	0.2908	0.3063	47	256	0.252	0.0491	0.0491	0.0561	0.0591
30	235	0.254	0.3953	0.3953	0.4516	0.4756	48	257	0.254	0.0926	0.0926	0.1058	0.1114
31	236	0.255	0.5060	0.5060	0.5781	0.6089	49	258	0.256	0.0916	0.0916	0.1092	0.1150
32	237	0.255	0.5858	0.5858	0.6595	0.7052	50	259	0.256	0.1740	0.1740	0.1988	0.2094
33	238	0.256	1.3535	1.3535	1.5469	1.6295	51	265	0.257	0.0133	0.0133	0.0152	0.0161
34	239	0.256	0.7956	0.7956	0.9092	0.9578	52	266	0.253	0.0238	0.0238	0.0272	0.0287
35	240	0.257	1.1374	1.1374	1.3081	1.3696	53	267	0.253	0.0503	0.0503	0.0575	0.0605
36	241	0.257	0.6929	0.6929	0.7920	0.8343	54	268	0.255	0.0495	0.0495	0.0565	0.0595
37	242	0.258	0.8306	0.8306	0.9495	1.0004	55	269	0.255	0.0913	0.0913	0.1044	0.1099
38	243	0.258	0.4018	0.4018	0.4594	0.4840							

TEST NO. 158
RUN NO. 31

RS(METER) 0.3048
RS(FT) 1.0000
HAM/HT 1.0000

HT(JOULE/KG) 1.2533E 06
HT(FTU/LBM) 538.94
TT(DEG R) 2124.6

PT(ATM) 11.38
PT(P/SI) 167.34

REL LENGTH(FT) 3.00

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 3.0264E 06 3.0508E 06 3.0508E 06 3.0508E 06

MACH 5.11 1.0169E 06 1.0169E 06 1.0169E 06 1.0169E 06

REL RE/METER 320.2 319.6 319.0 318.0 316.8 315.6 315.5 318.6 316.3 317.0 317.8 319.0 319.5 319.4 320.7 320.1 321.1 321.3 322.2 322.2 321.0 320.3 320.5 319.7 319.5 319.8 314.5 315.6 317.3 319.3 319.8 315.1 315.8 316.1 317.9 318.8

REL LENGTH(METER) 576.4 575.2 574.2 572.5 570.2 568.2 567.9 573.5 569.3 570.6 572.0 574.1 575.1 574.9 577.3 576.2 578.4 580.0 579.9 577.8 576.5 577.0 575.5 575.1 573.8 566.1 568.4 571.1 574.8 575.7 567.3 568.4 572.2 573.8

REL LENGTH(FT) 1875.1 1870.0 1864.0 1875.0 1864.0 1864.0 1864.0 1895.0 1864.0 1875.0 1875.0 1895.0 1895.0 1895.0 1908.0 1895.0 1908.0 1908.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0 1895.0

PT(ATM) 11.38 1180.5 1.2533E 06 1.2533E 06

TT(DEG K) 13.633 13.642 13.651 13.667 13.687 13.704 13.707 13.657 13.694 13.683 13.671 13.652 13.643 13.645 13.624 13.615 13.601 13.602 13.620 13.631 13.627 13.640 13.644 13.655 13.672 13.678 13.646 13.638 13.712 13.702 13.698 13.669 13.655

HT(JOULE/KG) 1.2533E 06 1.2533E 06 1.2533E 06 1.2533E 06

RS(METER) 0.3048 0.3048 0.3048 0.3048

RS(FT) 1.000 1.000 1.000 1.000

HAM/HT 1.000 1.000 1.000 1.000

TEST NO. 158

RUN NO. 31

CHAN	T/C	TW(DEG K)	TW(M/CM2)	Q(M/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
21	411	320.2	576.4	1.801	1.587	13.633	12.012	4.9316E-04	5.1952E-04	0.391
22	412	319.6	575.2	2.443	1.888	13.642	12.021	5.8635E-04	6.1760E-04	0.351
23	413	319.0	574.2	1.942	1.711	13.651	12.029	5.3099E-04	5.5933E-04	0.409
24	414	318.0	572.5	0.729	0.642	13.667	12.042	1.9914E-04	2.0976E-04	0.432
25	415	316.8	570.2	0.475	0.418	13.687	12.060	1.2945E-04	1.3634E-04	0.428
26	231	315.6	568.2	-0.108	-0.095	13.704	12.075	-2.9290E-05	-3.0846E-05	0.808
27	232	315.5	567.9	1.87	1.746	13.707	12.078	3.4230E-04	3.4025E-04	0.856
28	233	318.6	573.5	1.817	1.601	13.657	12.034	4.9674E-04	5.2324E-04	0.849
29	234	316.3	569.3	3.486	3.672	13.694	12.066	9.5013E-04	1.0007E-03	0.489
30	235	317.0	570.6	5.409	4.766	13.683	12.056	1.4754E-03	1.5539E-03	0.442
31	236	317.8	572.0	6.917	6.095	13.671	12.046	1.8887E-03	1.9873E-03	0.335
32	237	319.0	574.1	7.998	7.047	13.652	12.029	2.1699E-03	2.3036E-03	0.289
33	238	319.5	575.1	18.466	13.271	13.643	12.021	5.0528E-03	5.3227E-03	0.374
34	239	319.4	574.9	10.855	9.565	13.645	12.023	2.9699E-03	3.1285E-03	0.628
35	240	320.7	577.3	15.496	13.654	13.624	12.005	4.2464E-03	4.4735E-03	0.343
36	241	320.1	576.2	9.447	8.324	13.634	12.013	2.5870E-03	2.7252E-03	0.493
37	242	321.3	578.4	11.308	9.964	13.615	11.996	3.1012E-03	3.2672E-03	0.558
38	243	322.2	580.0	5.464	4.815	13.601	11.984	1.5002E-03	1.5806E-03	0.565
39	244	322.2	579.9	4.482	3.949	13.602	11.985	1.2304E-03	1.2963E-03	0.536
40	245	321.0	577.8	3.917	3.452	13.620	12.001	1.0738E-03	1.1313E-03	0.495
41	246	320.3	576.5	3.322	2.927	13.631	12.011	9.0831E-04	9.5846E-04	0.514
42	247	320.5	577.0	4.110	3.710	13.627	12.007	1.2152E-03	1.2152E-03	0.523
43	248	319.7	575.5	3.504	3.176	13.640	12.019	9.8644E-04	1.0391E-03	0.515
44	249	319.5	575.1	3.354	3.132	13.644	12.022	9.7455E-04	1.0245E-03	0.505
45	250	319.8	573.8	3.888	3.426	13.655	12.032	1.0628E-03	1.1195E-03	0.511
46	255	314.5	566.1	6.110	5.097	13.722	12.091	2.9814E-05	3.1396E-05	0.571
47	256	315.6	568.4	6.673	5.593	13.702	12.073	1.9297E-04	1.9297E-04	0.616
48	257	317.3	571.1	1.166	1.116	13.678	12.052	3.4537E-04	3.4537E-04	0.551
49	258	319.3	574.8	1.304	1.149	13.646	12.024	3.5676E-04	3.5676E-04	0.551
50	259	319.8	575.7	2.372	2.090	13.638	12.017	6.4943E-04	6.4943E-04	0.636
51	265	315.1	567.3	0.183	0.161	13.712	12.082	4.9809E-05	5.2454E-05	0.543
52	266	315.8	568.4	0.327	0.288	13.702	12.073	8.8982E-05	9.3711E-05	0.301
53	267	316.1	568.9	0.589	0.607	13.698	12.070	1.8777E-04	1.9775E-04	0.596
54	268	317.9	572.2	0.576	0.596	13.669	12.044	1.8466E-04	1.9450E-04	0.573
55	269	318.8	573.8	1.047	1.099	13.655	12.032	3.4090E-04	3.5909E-04	0.574

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.8530E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH		REL	REL	REL	REL	REL	REL	REL	REL	TEST NO.
5.10	3.2174E 06	2.9427E 06	0.914	11.38	1.2830E 06	1205.7	1.2830E 06	0.3048	1.000	158
5.10	9.8065E 05	2.9427E 06	3.330	167.34	551.73	2170.3	551.73	1.0000	1.000	31
RE/METER	RE/FT	RE/FT	LENGTH(FT)	PI(ATM)	HT(JOULE/KG)	TT(DEG K)	HT18TU/LBM)	RS(FT)	HA/MHT	HA/MHT
Q/Q5	H/MHS(1.000)	H/MHS(0.907)	H/MHS(0.874)	CHAN	T/C	MM/MT	Q/Q5	H/MHS(1.000)	H/MHS(0.907)	H/MHS(0.874)
56	0.248	0.0022	0.0027	66	281	0.255	1.1340	1.1340	1.2957	1.3648
57	0.248	0.0061	0.0070	67	282	0.256	0.8309	0.8309	0.9496	1.0002
58	0.249	0.0115	0.0138	68	283	0.257	0.4206	0.4206	0.4807	0.5064
59	0.249	0.0371	0.0445	69	284	0.257	0.3305	0.3305	0.3778	0.3981
60	0.250	0.1224	0.1397	70	285	0.258	0.2805	0.2805	0.2949	0.3300
61	0.250	0.2250	0.2704	71	286	0.259	0.2579	0.2579	0.2737	0.3107
62	0.251	0.3084	0.3521	72	287	0.259	0.2737	0.2737	0.2949	0.3298
63	0.252	0.4290	0.5159	73	288	0.260	0.2390	0.2390	0.2733	0.2880
64	0.252	0.4897	0.5890	74	289	0.260	0.2732	0.2732	0.3126	0.3295
65	0.254	1.1745	1.3417	75	290	0.260	0.3023	0.3023	0.3458	0.3644

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL	TM(DEG K)	Q(W/CM2)	Q(BTU/FT2-SEC)	OS(W/CM2)	OS(BTU/FT2-SEC)	STL(907)	STG(874)	TIME(SEC)
5.10	3.2274E 06	2.9420E 06	317.0	0.031	0.028	14.111	12.434	8.4139E-06	8.8576E-06	-0.487
MACH	RE/FT	REL	TM(DEG K)	Q(W/CM2)	Q(BTU/FT2-SEC)	OS(W/CM2)	OS(BTU/FT2-SEC)	STL(907)	STG(874)	TIME(SEC)
5.10	9.8066E 05	2.9420E 06	317.0	0.031	0.028	14.111	12.434	8.4139E-06	8.8576E-06	-0.487
56	272	317.0	570.7	0.086	0.076	14.111	12.434	2.7093E-05	2.4311E-05	0.067
57	273	317.5	571.4	0.162	0.149	14.105	12.428	7.5277E-05	4.5041E-05	-0.299
58	274	318.0	572.4	0.523	0.460	14.096	12.420	1.4047E-04	1.4789E-04	-0.163
59	275	318.8	573.8	1.724	1.519	14.084	12.410	4.6273E-04	4.8824E-04	-0.189
60	276	319.6	575.3	3.166	2.789	14.071	12.398	8.5244E-04	8.9764E-04	-0.150
61	277	320.3	576.5	4.336	3.821	14.061	12.389	1.1686E-03	1.2305E-03	-0.145
62	278	321.5	578.7	6.24	5.308	14.041	12.372	1.8259E-03	1.7122E-03	-0.211
63	279	322.5	580.5	6.869	6.052	14.025	12.358	1.8562E-03	1.9548E-03	-0.201
64	280	324.1	583.5	16.442	14.488	13.999	12.335	4.5221E-03	4.6890E-03	-0.075
65	281	325.5	585.8	13.853	12.968	13.979	12.317	4.5931E-03	4.5284E-03	-0.092
66	282	326.4	587.5	11.503	10.224	13.964	12.304	3.1504E-03	3.3185E-03	0.327
67	283	327.8	590.0	5.364	5.167	13.942	12.285	1.3947E-03	1.6799E-03	0.410
68	284	328.7	591.6	3.902	4.056	13.928	12.272	1.2534E-03	1.3204E-03	0.380
69	285	329.9	593.8	3.586	3.438	13.909	12.256	1.0639E-03	1.1210E-03	0.333
70	286	330.2	594.3	3.586	3.160	13.905	12.252	9.7617E-04	1.0306E-03	0.305
71	287	330.9	595.5	3.803	3.351	13.893	12.242	1.0382E-03	1.0933E-03	0.309
72	288	332.3	598.2	3.315	3.921	13.871	12.222	9.0648E-04	9.5521E-04	0.293
73	289	334.1	601.3	3.783	3.333	13.843	12.198	1.0366E-03	1.0924E-03	0.296
74	290	332.6	598.7	4.192	3.693	13.866	12.218	1.1466E-03	1.2083E-03	0.318

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8062E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCREY FIELD CALIF. PRELIMINARY DATA

MACH	REL RE/METER	REL LENGTH(METER)	PT(ATR)	TT(DEG K)	MT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.	MACH/HT	M/MS(1.000)	M/MS(0.907)	M/MS(0.874)
5.10	2.485E 06	2.2725E 06	0.914	115C.4	1.2189E 06	0.3048	1.000	158	1.000	0.1963	0.2247	0.2368
	7.575E 05	2.2725E 06	119.23	2070.7	523.92	1.0000	1.000	32	1.000	5.1884	0.2154	0.2272
1	0.261	0.1196	0.1441	11	0.262	0.1963				0.1755	0.2008	0.2116
2	0.261	0.2381	0.2870	12	0.262	0.1884				0.1755	0.1905	0.2008
3	0.261	0.6823	0.8227	13	0.261	0.1755				0.1665	0.1907	0.2008
4	0.262	0.4938	0.5954	14	0.261	0.1665				0.1907	0.0684	0.0721
5	0.262	0.8076	0.9739	15	0.258	0.0598				0.0247	0.0282	0.0297
6	0.263	0.3609	0.4352	16	0.259	0.0247				0.0414	0.0414	0.0499
7	0.262	0.5796	0.6991	17	0.260	0.0414				0.0449	0.0449	0.0541
8	0.263	0.3274	0.3949	18	0.260	0.0449				0.0514	0.0514	0.0541
9	0.263	0.2606	0.2982	19	0.261	0.0449				0.0645	0.0645	0.0778
10	0.261	0.1994	0.2405	20	0.261	0.0445				0.0738	0.0738	0.0778

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARMS RESEARCH CENTER MCFFETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.10 2.4853E 06 2.2725E 06 0.914 8.12 1150.4 1.2183E 26 0.3148 1.000 1.000
 MACH 5.10 7.5751E 05 2.2725E 06 3.000 19.33 2070.7 523.92 1.0000 1.0000

CHAN	T/C	TWIDEG K)	TWIDEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.907)	ST(G.074)	TIME(SEC)
1	201	315.0	567.1	1.334	1.175	11.154	9.828	5.1503E-04	5.4691E-04	6.793
2	202	316.3	569.4	2.551	2.336	11.137	9.813	1.0235E-03	1.0891E-03	6.776
3	203	317.2	570.7	7.591	6.689	11.125	9.603	2.9623E-03	3.1219E-03	6.723
4	204	317.7	571.8	5.490	4.838	11.119	9.797	2.1438E-03	2.2594E-03	6.607
5	205	317.8	572.1	8.078	7.911	11.116	9.795	3.5068E-03	3.6957E-03	6.585
6	206	318.5	573.2	4.209	3.532	11.108	9.788	1.5670E-03	1.6515E-03	6.420
7	207	318.4	573.2	6.439	5.674	11.109	9.788	2.5168E-03	2.6526E-03	6.694
8	208	318.9	574.0	3.635	3.203	11.102	9.783	1.4216E-03	1.4983E-03	6.674
9	209	318.9	574.0	2.894	2.550	11.103	9.783	1.1316E-03	1.1928E-03	6.656
10	210	318.2	572.8	2.215	.952	11.111	9.791	6.6573E-04	6.9845E-04	6.603
11	211	318.1	572.6	2.182	1.923	11.113	9.792	8.5251E-04	8.9845E-04	6.613
12	212	318.1	572.5	2.194	1.845	11.114	9.793	6.1795E-04	6.6207E-04	6.613
13	213	317.7	571.8	1.951	1.719	11.119	9.797	7.6202E-04	8.0310E-04	6.590
14	214	316.9	570.5	1.853	1.633	11.128	9.806	7.2307E-04	7.6201E-04	6.604
15	215	316.9	569.3	2.123	1.671	11.130	9.814	6.2768E-04	6.7221E-04	6.601
16	216	313.5	564.3	0.568	0.589	11.174	9.846	2.5363E-04	2.7355E-04	6.667
17	217	313.8	564.8	0.275	0.243	11.170	9.843	1.0704E-04	1.1278E-04	6.360
18	218	315.1	567.1	0.462	0.407	11.153	9.820	1.7968E-04	1.8933E-04	6.516
19	219	315.9	568.7	0.500	0.441	11.142	9.817	1.9492E-04	2.0546E-04	6.477
20	220	316.6	569.8	0.718	0.633	11.133	9.810	2.8005E-04	2.9513E-04	6.399

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0750E-01 (SLUGS/FT2-SEC)

PROBE NO.= 1

PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 32

SEARCH CENTER MOFFETT FIELD CALIF. ***
 (METER) HAM/MT
 1.000
 (SI) 1.000
 (FT) HAM/MT
 1.000

SEARCH CENTER MOFFETT FIELD CALIF. ***
 (METER) HAM/MT
 1.000
 (SI) 1.000
 (FT) HAM/MT
 1.000

SEARCH CENTER MOFFETT FIELD CALIF. ***
 (METER) HAM/MT
 1.000
 (SI) 1.000
 (FT) HAM/MT
 1.000

SEARCH CENTER MOFFETT FIELD CALIF. ***
 (METER) HAM/MT
 1.000
 (SI) 1.000
 (FT) HAM/MT
 1.000

CHAN	T/C	MM/MT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.876)	CHAN	T/C	MM/MT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.876)
21	411	C.254	C.1459	C.1756	C.1567	C.1756	39	244	C.256	C.3151	C.3151	C.3601	0.3793
22	412	C.254	C.1622	C.1951	C.1852	C.1951	40	245	C.255	C.2830	C.2830	C.3234	0.3406
23	413	C.253	C.1446	C.1740	C.1652	C.1740	41	246	C.254	C.2364	C.2364	C.2700	0.2844
24	414	C.253	C.0583	C.0666	C.0701	C.0701	42	247	C.255	C.2841	C.2841	C.3246	0.3418
25	415	C.252	C.0404	C.0461	C.0486	C.0486	43	248	C.254	C.2510	C.2510	C.2868	0.3020
26	231	C.251	C.0019	C.0022	C.0023	C.0023	44	249	C.254	C.2506	C.2506	C.2863	0.3015
27	232	C.251	C.0663	C.0797	C.0797	C.0797	45	250	C.253	C.2720	C.2720	C.3108	0.3273
28	233	C.254	C.0540	C.0616	C.0616	C.0616	46	255	C.251	C.0195	C.0195	C.0223	0.0235
29	234	C.252	C.0772	C.0882	C.0882	C.0882	47	256	C.252	C.0595	C.0595	C.0479	0.0715
30	235	C.253	C.1008	C.1152	C.1152	C.1152	48	257	C.253	C.0645	C.0645	C.0737	0.0776
31	236	C.253	C.1315	C.1502	C.1502	C.1502	49	258	C.254	C.1008	C.1008	C.1152	0.1213
32	237	C.254	C.2156	C.2463	C.2463	C.2463	50	259	C.255	C.2370	C.2370	C.2708	0.2853
33	238	C.254	C.6373	C.7282	C.7282	C.7282	51	265	C.251	C.0106	C.0106	C.0121	0.0127
34	239	C.254	C.8003	C.9143	C.9143	C.9143	52	266	.....	.....	.....	.....	.....
35	240	C.255	C.7746	C.8852	C.8852	C.8852	53	267	C.252	C.0229	C.0229	C.0262	0.0176
36	241	C.255	C.7537	C.8612	C.8612	C.8612	54	268	C.253	C.0269	C.0269	C.0307	0.0323
37	242	C.256	C.6237	C.7128	C.7128	C.7128	55	269	C.254	C.0597	C.0597	C.0682	0.0718
38	243	C.256	C.3564	C.4074	C.4074	C.4074							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER GUFFETT FIELD CALIF. PRELIMINARY DATA TEST NO. 158
 MACH 5.10 RE/METER 2.1634E 06 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JCULE/KG) PS(METER) HAM/MT TEST NO. 158
 MACH 5.1 RE/FT 7.2172E 05 REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LBM) AS(FT) HAM/MT RUN NO. 32

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(W/CM2)	QS(W/FT2-SEC)	QS(W/FT2-SEC)	QS(BTU/FT2-SEC)	ST(C.907)	ST(C.874)	TIME(SEC)
21	411	318.4	173.0	1.692	11.592	10.214	6.4656E-04	6.8098E-04	6.8098E-04	6.8098E-04	0.465
22	412	317.8	172.0	1.631	11.600	10.221	7.1943E-04	7.5666E-04	7.5666E-04	7.5666E-04	0.469
23	413	317.3	171.1	1.678	11.606	10.227	6.4059E-04	6.7465E-04	6.7465E-04	6.7465E-04	0.466
24	414	316.5	169.8	0.677	11.616	10.236	1.7895E-04	1.8844E-04	1.8844E-04	1.8844E-04	0.586
25	415	315.5	167.9	0.470	11.630	10.248	1.7895E-04	1.8844E-04	1.8844E-04	1.8844E-04	0.480
26	231	313.9	165.1	0.322	11.651	10.266	8.5528E-06	9.0056E-06	9.0056E-06	9.0056E-06	0.615
27	232	314.7	166.5	0.772	11.641	10.257	2.3906E-04	3.0932E-04	3.0932E-04	3.0932E-04	0.824
28	233	317.9	172.3	0.426	11.598	10.219	2.3906E-04	3.0932E-04	3.0932E-04	3.0932E-04	0.561
29	234	315.6	168.0	0.898	11.629	10.247	3.4210E-04	4.7046E-04	4.7046E-04	4.7046E-04	0.484
30	235	316.3	169.3	1.172	11.620	10.230	4.4674E-04	6.1354E-04	6.1354E-04	6.1354E-04	0.362
31	236	317.0	170.6	1.327	11.594	10.216	5.8257E-04	1.0362E-03	1.0362E-03	1.0362E-03	0.419
32	237	318.2	172.7	2.500	11.594	10.216	9.8535E-04	1.3342E-03	1.3342E-03	1.3342E-03	0.446
33	238	318.7	173.5	7.385	11.587	10.210	5.8239E-03	2.9743E-03	2.9743E-03	2.9743E-03	0.367
34	239	318.6	173.5	9.274	11.589	10.211	3.5457E-03	3.7346E-03	3.7346E-03	3.7346E-03	0.279
35	240	319.9	175.7	8.964	11.572	10.197	3.4324E-03	3.6156E-03	3.6156E-03	3.6156E-03	0.442
36	241	319.2	174.6	8.729	11.581	10.204	3.3396E-03	3.5178E-03	3.5178E-03	3.5178E-03	0.338
37	242	320.3	176.6	7.214	11.566	10.191	2.7637E-03	2.9112E-03	2.9112E-03	2.9112E-03	0.529
38	243	320.8	177.5	4.120	11.560	10.185	1.7955E-03	1.6638E-03	1.6638E-03	1.6638E-03	0.327
39	244	320.6	177.0	3.643	11.563	10.188	1.3962E-03	1.4707E-03	1.4707E-03	1.4707E-03	0.327
40	245	319.2	174.5	3.278	11.581	10.205	1.2541E-03	1.3209E-03	1.3209E-03	1.3209E-03	0.516
41	246	318.6	173.6	2.739	11.588	10.211	1.0472E-03	1.1030E-03	1.1030E-03	1.1030E-03	0.529
42	247	318.8	173.6	3.291	11.587	10.209	1.2586E-03	1.3257E-03	1.3257E-03	1.3257E-03	0.337
43	248	319.1	174.2	2.911	11.595	10.217	1.1121E-03	1.1717E-03	1.1717E-03	1.1717E-03	0.548
44	249	317.9	172.2	2.507	11.598	10.219	1.1121E-03	1.1717E-03	1.1717E-03	1.1717E-03	0.545
45	250	317.3	171.1	3.157	11.598	10.219	1.2652E-03	1.2693E-03	1.2693E-03	1.2693E-03	0.550
46	255	313.9	164.9	0.228	11.606	10.227	6.6554E-05	9.1136E-05	9.1136E-05	9.1136E-05	0.496
47	256	315.2	167.4	0.692	11.634	10.251	2.6352E-04	2.7750E-04	2.7750E-04	2.7750E-04	0.564
48	257	316.6	169.9	0.749	11.615	10.234	1.8566E-04	3.0084E-04	3.0084E-04	3.0084E-04	0.574
49	258	318.7	173.6	1.168	11.588	10.211	4.4674E-04	4.7053E-04	4.7053E-04	4.7053E-04	0.615
50	259	316.2	169.5	2.745	11.581	10.205	1.0502E-03	1.1062E-03	1.1062E-03	1.1062E-03	0.564
51	265	314.4	165.9	0.123	11.645	10.261	4.6956E-05	6.9444E-05	6.9444E-05	6.9444E-05	0.525
52	266	-0.0	-0.0	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.004
53	267	315.4	167.7	0.266	11.632	10.249	1.1749E-04	1.0687E-04	1.0687E-04	1.0687E-04	0.371
54	268	317.2	170.9	0.312	11.608	10.228	1.1707E-04	1.2540E-04	1.2540E-04	1.2540E-04	0.358
55	269	318.1	172.6	0.692	11.595	10.217	2.6444E-04	2.7947E-04	2.7947E-04	2.7947E-04	-0.076

FREE-STREAM DENSITY-VELOCITY PRODUCT = 7.0293E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH		REL	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	HM/HT	G/QS
5.10	2.292E 06	2.0959E 06	0.0170	0.0170	0.0191	0.0204	66	281	0.253	1.5238
5.10	2.292E 06	2.0959E 06	0.0438	0.0438	0.0421	0.0443	67	282	0.254	1.0811
5.10	2.292E 06	2.0959E 06	0.0604	0.0604	0.0499	0.0526	68	283	0.254	0.5065
5.10	2.292E 06	2.0959E 06	0.1087	0.1087	0.0689	0.0725	69	284	0.255	0.3981
5.10	2.292E 06	2.0959E 06	0.1778	0.1778	0.1241	0.1306	70	285	0.256	0.3210
5.10	2.292E 06	2.0959E 06	0.2434	0.2434	0.2030	0.2137	71	286	0.256	0.2723
5.10	2.292E 06	2.0959E 06	0.3632	0.3632	0.2779	0.2925	72	287	0.256	0.2656
5.10	2.292E 06	2.0959E 06	0.5039	0.5039	0.4146	0.4366	73	288	0.257	0.2446
5.10	2.292E 06	2.0959E 06	1.4785	1.4785	0.6059	0.6059	74	289	0.258	0.2516
5.10	2.292E 06	2.0959E 06	1.4785	1.4785	1.6886	1.7783	75	290	0.258	0.2681

TEST NO. 158
 RUN NO. 32
 HAH/HT 1.000
 HAM/HT 1.000
 RS(FT) 1.0000
 RS(METER) 6.3048
 H/MS(1.000) 1.7406
 H/MS(0.907) 1.8332
 H/MS(0.874) 1.8332

TI(DEC K) 1206.5
 TI(DEC R) 2171.6
 MT(JOULE/KG) 1.2839E 06
 P(PSI) 119.33
 P(ATM) 8.12
 FT(LBTL/LBIN) 552.00

REL LENGTH(METER) 2.0959E 06
 REL LENGTH(FT) 3.000

REL LENGTH(METER) 2.0959E 06
 REL LENGTH(FT) 3.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 2.0959E 06 REL LENGTH(METER) PI(ATM) TT(DCG K) HT(JOULE/KG) PS(METER) HAM/HT TEST NO. 15R
 MACH 5.11 RE/FT 2.0959E 06 REL LENGTH(FT) PI(PST) TT(DEG R) HT(BTU/LBM) R(FT) HAM/HT RUN NO. 32
 5.11 0.9862E 03 2.0959E 06 3.100 19.03 171.6 552.59 11.902 11.921 10.514 4.811E-04 8.4043E-04 1.1505E-03 0.195

CHAN	T/C	TW(DEG K)	TM(DEG R)	Q(W/CM2)	Q(M/CM2)	W(BTU/FT2-SEC)	QS(W/CM2)	US(BTU/FT2-S C)	ST(10.907)	ST(10.874)	TIME(SEC)
56	271	315.5	567.9	0.443	0.178	11.947	10.527	7.0278E-05	8.0081E-05	8.0081E-05	0.171
57	272	315.7	569.2	0.443	0.398	11.945	10.525	1.9345E-04	1.7417E-04	1.7417E-04	0.470
58	273	316.1	568.9	0.523	0.460	11.939	10.520	1.9345E-04	2.0680E-04	2.0680E-04	0.410
59	274	316.6	569.9	0.720	0.635	11.932	10.514	2.7056E-04	2.8524E-04	2.8524E-04	0.361
60	275	317.4	571.4	1.796	1.142	11.921	10.514	4.811E-04	5.1385E-04	5.1385E-04	0.269
61	276	318.2	572.8	2.118	0.866	11.911	10.495	7.9519E-04	8.4043E-04	8.4043E-04	0.240
62	277	318.9	574.0	2.897	0.553	11.902	10.497	1.9228E-03	1.1505E-03	1.1505E-03	0.230
63	278	320.3	576.5	4.316	0.802	11.883	10.471	1.9345E-04	1.7168E-03	1.7168E-03	0.195
64	279	321.1	578.0	5.982	0.271	11.872	10.461	2.2624E-03	2.3823E-03	2.3823E-03	0.248
65	280	322.7	580.9	17.522	1.439	11.851	10.442	0.5391E-03	6.9916E-03	6.9916E-03	0.300
66	281	323.9	583.0	18.135	1.891	11.836	10.439	5.8429E-03	7.2068E-03	7.2068E-03	0.197
67	282	324.6	584.2	12.789	1.266	11.826	10.421	4.8551E-03	5.1135E-03	5.1135E-03	0.477
68	283	325.3	585.6	5.386	0.274	11.816	10.412	2.2750E-03	2.3962E-03	2.3962E-03	0.456
69	284	325.9	586.5	4.701	0.142	11.809	10.406	1.7880E-03	1.8933E-03	1.8933E-03	0.411
70	285	326.6	587.9	3.788	0.237	11.799	10.396	1.4419E-03	1.5189E-03	1.5189E-03	0.366
71	286	326.8	588.3	3.212	2.830	11.797	10.384	1.2231E-03	1.2883E-03	1.2883E-03	0.329
72	287	327.4	589.4	3.131	2.759	11.788	10.387	1.1537E-03	1.2570E-03	1.2570E-03	0.315
73	288	328.8	591.9	2.879	2.237	11.770	10.371	1.0995E-03	1.1578E-03	1.1578E-03	0.368
74	289	330.1	594.1	2.957	2.606	11.751	10.356	1.1305E-03	1.1911E-03	1.1911E-03	0.308
75	290	339.2	592.6	3.154	2.771	11.745	10.366	1.2043E-03	1.2687E-03	1.2687E-03	0.323

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0002E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center Moffett Field Calif. *** Preliminary Data ***													
MACH		RE/METER		P.L		PT(ATM)		TEST NO.					
5.10	1.42	1.2984E 06	0.314	7.059	1143.9	1.2108E 06	0.3048	1.000	158				
5.10	4.3384E 06	1.2984E 06	5.10	67.54	2059.0	500.69	1.0000	1.000	30				
CONSTANT SECTION													
CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/FS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/FS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.263	0.0120	0.1130	0.0157	0.0157	11	211	0.263	0.0634	0.0728	0.0728	0.0765
2	202	0.263	0.0349	0.0349	0.0421	0.0421	12	212	0.263	0.0610	0.0698	0.0698	0.0735
3	203	0.263	0.0335	0.1038	0.1187	0.1251	13	213	0.263	0.0524	0.0600	0.0600	0.0632
4	204	0.263	0.0489	0.0489	0.0590	0.0590	14	214	0.262	0.0455	0.0521	0.0521	0.0549
5	205	0.263	0.1165	0.1165	0.1405	0.1405	15	215	0.262	0.0511	0.0584	0.0584	0.0616
6	206	0.263	0.0348	0.0348	0.0420	0.0420	16	216	0.261	0.0030	0.0034	0.0034	0.0036
7	207	0.263	0.1312	0.1312	0.1503	0.1503	17	217	0.261	0.0000	0.0000	0.0000	0.0000
8	208	0.263	0.0995	0.0995	0.1139	0.1139	18	218	0.262	0.0038	0.0043	0.0043	0.0046
9	209	0.263	0.0810	0.0810	0.0977	0.0977	19	219	0.262	0.0128	0.0128	0.0128	0.0154
20	210	0.263	0.0652	0.0652	0.0746	0.0746	20	220	0.262	0.0407	0.0407	0.0407	0.0490

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CENTER MESSAGE CENTER MESSAGE FIELD CALLS *** PRELIMINARY DATA ***														
MACH				LENG (METER)				TIME (SEC)				TEST NO. 158		
MACH				LENG (METER)				TIME (SEC)				TEST NO. 158		
CHN	TC	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)
1	201	315.2	567.4	6.108	6.321	7.331	7.331	7.331	7.331	7.331	7.331	7.331	7.331	7.331
2	202	315.0	568.8	6.193	6.212	7.324	7.324	7.324	7.324	7.324	7.324	7.324	7.324	7.324
3	203	315.5	569.0	6.302	6.307	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
4	204	316.8	570.2	6.506	6.358	7.317	7.317	7.317	7.317	7.317	7.317	7.317	7.317	7.317
5	205	316.3	570.4	6.367	6.352	7.316	7.316	7.316	7.316	7.316	7.316	7.316	7.316	7.316
6	206	317.3	571.1	6.399	6.255	7.312	7.312	7.312	7.312	7.312	7.312	7.312	7.312	7.312
7	207	317.2	571.1	6.399	6.255	7.313	7.313	7.313	7.313	7.313	7.313	7.313	7.313	7.313
8	208	317.6	571.7	6.625	6.372	7.310	7.310	7.310	7.310	7.310	7.310	7.310	7.310	7.310
9	209	317.6	571.7	6.672	6.292	7.310	7.310	7.310	7.310	7.310	7.310	7.310	7.310	7.310
10	210	317.3	571.1	6.541	6.477	7.313	7.313	7.313	7.313	7.313	7.313	7.313	7.313	7.313
11	211	317.1	571.1	6.526	6.454	7.313	7.313	7.313	7.313	7.313	7.313	7.313	7.313	7.313
12	212	317.2	570.9	6.506	6.446	7.314	7.314	7.314	7.314	7.314	7.314	7.314	7.314	7.314
13	213	317.0	570.6	6.435	6.383	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.315
14	214	316.4	569.6	6.378	6.332	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
15	215	316.1	569.0	6.424	6.374	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323
16	216	316.4	565.9	6.225	6.022	7.336	7.336	7.336	7.336	7.336	7.336	7.336	7.336	7.336
17	217	314.6	566.3	6.300	6.300	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
18	218	315.5	567.0	6.332	6.029	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
19	219	315.8	568.4	6.125	6.124	7.326	7.326	7.326	7.326	7.326	7.326	7.326	7.326	7.326
20	220	316.2	569.2	6.333	6.298	7.322	7.322	7.322	7.322	7.322	7.322	7.322	7.322	7.322

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1794E-1 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***		TEST NO. 158		RUN NO. 33								
REL LENGTH (METER) 4.59		PS(METER) 0.3048		HAM/HT 1.000								
REL LENGTH (FT) 15.07		RS (FT) 1.0000		HAM/HT 1.000								
REL LENGTH (FT) 3.00		HT (BTU/LBM) 536.44		H/HS(1.000) H/HS(0.907) H/HS(0.874)								
CHAN	T/C	Q/OS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAM	T/C	HM/HT	C/S	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	411	0.256	0.0995	0.1137	0.1198	39	244	0.257	0.2483	0.2683	0.3067	0.3231
22	412	0.256	0.0937	0.0937	0.1008	40	245	0.257	0.2182	0.2182	0.2494	0.2627
23	413	0.256	0.0633	0.0743	0.0762	41	246	0.256	0.1677	0.1677	0.1917	0.2019
24	414	0.256	0.0189	0.0227	0.0227	42	247	0.257	0.1833	0.1833	0.2095	0.2207
25	415	0.255	0.0066	0.0076	0.0080	43	248	0.256	0.1426	0.1426	0.1744	0.1837
26	231	0.254	0.0420	0.0480	0.0505	44	249	0.256	0.1486	0.1486	0.1798	0.1788
27	232	0.254	0.0389	0.0445	0.0469	45	250	0.256	0.1482	0.1482	0.1694	0.1784
28	233	0.257	0.0264	0.0302	0.0318	46	255	0.254	0.0096	0.0096	0.0109	0.0115
29	234	0.0435	0.0485	0.0555	0.0584	47	256	0.255	0.0241	0.0241	0.0275	0.0290
30	235	0.255	0.0846	0.0967	0.1019	48	257	0.256	0.0170	0.0170	0.0194	0.0204
31	236	0.255	0.1372	0.1322	0.1591	49	258	0.256	0.0174	0.0174	0.0199	0.0210
32	237	0.256	0.2023	0.2312	0.2435	50	259	0.257	0.0348	0.0348	0.0398	0.0420
33	238	0.256	0.5749	0.6547	0.6897	51	265	0.255	0.0018	0.0018	0.0021	0.0022
34	239	0.5321	0.5321	0.6081	0.6406	52	266	0.255	0.0059	0.0059	0.0067	0.0071
35	240	0.7125	0.7125	0.8144	0.8579	53	267	0.255	0.0125	0.0125	0.0125	0.0132
36	241	0.5013	0.5013	0.5729	0.6036	54	268	0.256	0.0110	0.0110	0.0125	0.0132
37	242	0.4871	0.4871	0.5568	0.5866	55	269	0.256	0.0370	0.0370	0.0423	0.0446
38	243	0.3134	0.3134	0.3581	0.3774							

PRELIMINARY DATA

TEST NO. 158 RUN NO. 33

MAJOR FACILITY: NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER ROBERT FIELD CALIF. COMPUTER: 202 48

PROBE NO.: 1000

PROBE TYPE: 202 48

PROBE HEIGHT: 1000

PROBE SPEED: 530.84

PROBE ALTITUDE: 530.84

PROBE PRESSURE: 530.84

PROBE TEMPERATURE: 530.84

PROBE HUMIDITY: 530.84

PROBE ACCELERATION: 530.84

PROBE ROTATION: 530.84

PROBE VIBRATION: 530.84

PROBE NOISE: 530.84

PROBE SIGNAL: 530.84

PROBE STATUS: 530.84

PROBE ERROR: 530.84

PROBE CALIBRATION: 530.84

PROBE MAINTENANCE: 530.84

PROBE RECORDING: 530.84

PROBE ANALYSIS: 530.84

PROBE REPORTING: 530.84

PROBE ARCHIVING: 530.84

PROBE DISTRIBUTION: 530.84

PROBE ACCESS: 530.84

PROBE SECURITY: 530.84

PROBE BACKUP: 530.84

PROBE RECOVERY: 530.84

Table with columns: CHAN, T/C, TIME(LEG K), TIME(LEG P), QIM/CM2, QIBTU/FT2-SEC, QS(W/CM2), QS(BTU/FT2-S-C), STIO(907), STIO(P74), TIME(SEC). Rows 21-55.

FUEL-STATION DENSITY-VOLUME PRODUCT = 10.520-1 (SLUGS/FT2-SEC)

PROBE NO. =

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center McFFett Field Calif. *** PRELIMINARY DATA ***		TEST NO. 158		RUN NO. 13			
MACH	RU/METER	RT(SEC)	HT(JUUL/KG)	HW/HT	H/MS(0.907)	H/MS(0.874)	
50	1.534E+01	1.31E+01	1.267E+06	1.000	0.7345	0.7101	
MACH	FE/FT	RT(SEC)	HT(BTU/LBM)	HW/HT	RS(FT)	H/MS(0.907)	H/MS(0.874)
50	4.0135E+01	1.220E+01	3.44E+02	1.000	1.000	0.7355	0.8407
56	0.254	0.0100	0.0114	0.257	0.7355	0.8407	0.8857
57	0.253	0.0267	0.0120	0.257	0.6712	0.7101	0.7481
58	0.252	0.0328	0.0249	0.258	0.3723	0.4257	0.4484
59	0.251	0.0339	0.0339	0.258	0.3310	0.3784	0.3987
60	0.250	0.0488	0.0477	0.258	0.2692	0.3078	0.3243
61	0.250	0.0734	0.0567	0.258	0.2479	0.2605	0.2745
62	0.250	0.0806	0.0883	0.258	0.2144	0.2451	0.2583
63	0.250	0.0904	0.1149	0.258	0.1912	0.2187	0.2304
64	0.250	0.0267	0.1931	0.260	0.1983	0.2262	0.2390
65	0.254	0.0737	0.0891	0.259	0.2723	0.2033	0.2438

TEST NO. 158
RUN NO. 33

PRELIMINARY DATA ***

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAW/HT 1.000
HAM/HT 1.000

AMES RESEARCH CENTER MOFFETT FIELD CALIF. ***
HT (JOULE/KG) 1.2573E+06
HT (BTU/LBM) 544.99

SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ***
PI (ATM) 4.59
PI (PSI) 67.54

CH	1/C	TIME (SEC)	IN (INCHES)	Q (G/CM ²)	Q (BTU/FT ² -SEC)	OS (M/CM ²)	US (BTU/FT ² -S)	ST (G/CM ²)	ST (O.875)	TIME (SEC)
26	2.1	3.8.9	573.4	7.86	6.77	8.80	7.79	5.9053E-05	6.2190E-05	0.391
27	2.2	3.8.7	573.7	5.82	6.61	8.80	7.77	1.2254E-04	1.2905E-04	0.541
28	2.3	3.8.9	574.1	4.48	6.48	8.80	7.76	1.6474E-04	1.7555E-04	0.573
29	2.4	3.8.9	574.7	3.98	6.26	8.79	7.75	2.0037E-04	2.1102E-04	0.463
30	2.5	3.8.9	575.1	3.65	6.18	8.79	7.75	2.4442E-04	3.0423E-04	0.462
31	2.6	3.8.9	575.5	3.45	6.08	8.78	7.74	2.9211E-04	4.5754E-04	0.376
32	2.7	3.8.7	577.2	3.28	6.00	8.78	7.74	3.4449E-04	6.2689E-04	0.331
33	2.8	3.8.8	579.2	3.18	6.00	8.77	7.73	4.0198E-04	9.0003E-04	0.268
34	2.9	3.8.2	579.9	3.08	6.75	8.77	7.73	4.6421E-04	1.4136E-03	0.291
35	3.0	3.8.2	581.8	2.98	6.95	8.75	7.71	5.3145E-04	2.0003E-03	0.253
36	3.1	3.8.2	583.3	2.86	7.71	8.75	7.71	6.0478E-04	2.7873E-03	0.130
37	3.2	3.4.7	584.4	2.76	8.67	8.74	7.70	6.8345E-04	3.6748E-03	0.420
38	3.3	3.5.2	585.4	2.69	9.79	8.73	7.70	7.6700E-04	4.6800E-03	0.383
39	3.4	3.5.5	586.0	2.62	1.54	8.73	7.69	8.5543E-04	5.8226E-03	0.378
40	3.5	3.6.1	586.8	2.55	2.54	8.72	7.69	9.4800E-04	7.0650E-03	0.357
41	3.6	3.6.6	586.9	2.49	3.72	8.73	7.69	1.0494E-03	8.3797E-03	0.360
42	3.7	3.6.1	588.6	2.42	5.53	8.73	7.69	1.1694E-03	9.7216E-03	0.358
43	3.8	3.7.0	588.6	2.36	8.49	8.72	7.68	1.3044E-03	1.1193E-02	0.361
44	3.9	3.7.0	590.2	2.29	1.47	8.72	7.67	1.4444E-03	1.2873E-02	0.346
45	4.0	3.7.3	589.1	2.22	1.55	8.71	7.67	1.5882E-03	1.4676E-02	0.375

FREE-STK AM DENS VELOCITY PRODUCT = 1.1424E+01 (SLUGS/FT²-SEC)

PRUSE NUM = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***

PACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	1.3759E C6	1.2580E C6	0.914	4.50	1151.8	1.2200E C6	0.3048	1.000	158
P44B	RE/FT	REL	LENGTH(FT)	PT(PST)	TT(DEC R)	FT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	4.1534E C5	1.2580E C6	3.000	66.20	2073.3	524.64	1.0000	1.000	34

CONSTANT SET 35/

CHAN	T/C	H/W/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	Q/CS	H/W/HT	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.256	-0.0000	-0.0000	-0.0000	-0.0000	0.258	-0.0000	-0.0000	-0.0000	-0.0000
2	202	0.257	-0.0000	-0.0000	-0.0000	-0.0000	0.258	0.0000	0.0000	0.0000	0.0000
3	203	0.257	-0.0000	-0.0000	-0.0000	-0.0000	0.258	0.0000	0.0000	0.0000	0.0000
4	204	0.257	-0.0000	-0.0000	-0.0000	-0.0000	0.258	0.0000	0.0000	0.0000	0.0000
5	205	0.258	-0.0000	-0.0000	-0.0000	-0.0000	0.258	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HA/W/HT	TEST NO.	158	
5.10	1.3758E C6	1.2580E C6	4.50	1151.8	1.2200E 06	C.3048	1.000	RUN NC.	34	
MACH	REL LENGTH(FT)	REL LENGTH(FT)	PT(PST)	TT(DEC R)	HT(FTU/LBM)	RS(FT)	HA/W/HT			
5.10	4.1924E C5	1.2580E 06	66.20	2073.3	524.64	1.0000	1.000			
CHAN	T/C	TW(DEC K)	TW(DEC R)	U(W/CM2)	C(BTU/FT2-SEC)	(S(W/CM2)	CS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	201	311.6	560.8	-0.000	-0.000	8.357	7.364	-0.0000E-39	-0.0000E-39	0.424
2	202	312.1	561.8	-0.000	-0.000	8.351	7.359	-0.0000E-39	-0.0000E-39	0.138
3	203	312.5	562.6	-0.000	-0.000	8.347	7.355	-0.0000E-39	-0.0000E-39	0.507
4	204	312.8	563.0	-0.000	-0.000	8.345	7.353	-0.0000E-39	-0.0000E-39	0.300
5	205	312.8	563.1	-0.000	-0.000	8.344	7.352	-0.0000E-39	-0.0000E-39	-0.074
6	206	313.3	563.9	-0.000	-0.000	8.340	7.349	-0.0000E-39	-0.0000E-39	-0.170
7	207	313.3	563.9	0.000	0.000	8.340	7.349	0.0000E-39	0.0000E-39	-0.049
8	208	313.7	564.7	0.000	0.000	8.336	7.345	0.0000E-39	0.0000E-39	0.187
9	209	313.5	565.0	0.000	0.000	8.334	7.343	0.0000E-39	0.0000E-39	0.205
10	210	313.8	564.8	0.000	0.000	8.335	7.344	0.0000E-39	0.0000E-39	0.161

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1500E-01 (SLUGS/FT2-SEC)

PROBE NO.= 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF.

RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HI(JOULE/KG) RS(METER) MAW/HT
 1.2856 C6 1.1755 06 0.914 4.50 1198.7 1.2748E 06 0.3048 1.000
 MACH 5.10 3.9184E C5 1.1755E 06 3.000 66.20 2157.7 548.19 1.0000 1.000

CHAN	T/C	HW/HT	Q/QS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)	CHRN	T/C	HW/HT	Q/QS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)
11	301	0.247	C.0879	0.0879	0.1003	0.1056	36	236	0.246	-0.0000	-0.0000	-0.0000	-0.0000
12	302	0.247	C.0852	0.0852	0.0972	0.1023	37	237	0.247	-0.0000	-0.0000	-0.0000	-0.0000
13	303	0.247	C.0799	0.0799	0.0911	0.0952	38	238	0.247	-0.0000	-0.0000	-0.0000	-0.0000
14	304	0.247	C.0745	0.0745	0.0850	0.0895	39	239	0.247	-0.0000	-0.0000	-0.0000	-0.0000
15	305	0.247	C.0742	0.0742	0.0847	0.0891	40	240	0.247	-0.0000	-0.0000	-0.0000	-0.0000
16	306	0.247	C.0676	0.0676	0.0771	0.0811	41	241	0.247	-0.0000	-0.0000	-0.0000	-0.0000
17	307	0.247	C.0659	0.0659	0.0752	0.0792	42	242	0.248	-0.0000	-0.0000	-0.0000	-0.0000
18	308	0.246	C.0605	0.0605	0.0691	0.0727	43	243	0.248	-0.0000	-0.0000	-0.0000	-0.0000
19	309	0.247	C.0603	0.0603	0.0687	0.0724	44	244	0.248	-0.0000	-0.0000	-0.0000	-0.0000
20	310	0.246	C.0607	0.0607	0.0693	0.0729	45	245	0.248	-0.0000	-0.0000	-0.0000	-0.0000
21	311	0.247	C.0593	0.0593	0.0677	0.0712	45	246	0.248	-0.0000	-0.0000	-0.0000	-0.0000
22	312	0.247	C.0606	0.0606	0.0691	0.0728	47	247	0.248	-0.0000	-0.0000	-0.0000	-0.0000
23	313	0.247	C.0555	0.0555	0.0633	0.0666	48	248	0.247	-0.0000	-0.0000	-0.0000	-0.0000
24	314	0.247	C.0455	0.0455	0.0520	0.0547	49	249	0.247	-0.0000	-0.0000	-0.0000	-0.0000
25	315	0.247	C.0524	0.0524	0.0598	0.0629	50	250	0.247	-0.0000	-0.0000	-0.0000	-0.0000
26	316	0.247	C.0583	0.0583	0.0665	0.0700	51	261	0.247	-0.0000	-0.0000	-0.0000	-0.0000
27	317	0.247	C.0564	0.0564	0.0644	0.0678	52	262	0.247	-0.0000	-0.0000	-0.0000	-0.0000
28	318	0.249	C.0508	0.0508	0.0580	0.0611	53	263	0.245	-0.0000	-0.0000	-0.0000	-0.0000
29	319	0.247	C.0546	0.0546	0.0622	0.0655	54	264	0.245	-0.0000	-0.0000	-0.0000	-0.0000
30	231	0.245	C.0500	0.0500	0.0500	0.0500	55	265	0.245	-0.0000	-0.0000	-0.0000	-0.0000
31	232	0.245	C.0500	0.0500	0.0500	0.0500	56	265	0.244	-0.0000	-0.0000	-0.0000	-0.0000
32	233	0.245	C.0500	0.0500	0.0500	0.0500	57	266	0.246	-0.0000	-0.0000	-0.0000	-0.0000
33	234	0.246	C.0500	0.0500	0.0500	0.0500	58	267	0.246	-0.0000	-0.0000	-0.0000	-0.0000
34	235	0.246	C.0500	0.0500	0.0500	0.0500	59	268	0.246	-0.0000	-0.0000	-0.0000	-0.0000
35	235	0.246	C.0500	0.0500	0.0500	0.0500	60	269	0.247	-0.0000	-0.0000	-0.0000	-0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) MAW/HT TEST NO. 158
 5.10 1.2856E C6 1.1755E C6 0.914 4.50 1198.7 1.2748E 06 C.3048 1.000 RUN NO. 34
 MACH RE/VEL REL LENGTH(M) FT(LPS) IIC(C R) HEARIN(LBHM) RS(JEI) MAW/HT
 5.10 3.9184E C5 1.1755E C6 3.000 66.20 2157.7 548.19 1.0000 1.000

GM#N	TAC	TM(DEG K)	TM(DEG R)	W(M/CMZ)	CS(M/CMZ)	CS(BTW/FT2-SEC)	ST(IQ.907)	ST(IQ.874)	TIME(SEC)
11	301	313.3	563.9	0.777	8.838	7.787	5.272E-04	5.5502E-04	0.398
12	302	313.5	564.4	0.753	8.835	7.785	5.1400E-04	5.3790E-04	0.407
13	303	313.6	564.5	0.706	8.841	7.790	4.7999E-04	5.0418E-04	0.377
14	304	313.6	564.5	0.658	8.835	7.785	4.4733E-04	4.7025E-04	0.398
15	305	313.1	563.5	0.656	8.840	7.789	4.4304E-04	4.5845E-04	0.363
16	306	313.0	563.5	0.597	8.840	7.790	4.0526E-04	4.2658E-04	0.234
17	307	313.4	564.1	0.583	8.837	7.786	3.9534E-04	4.1615E-04	0.325
18	308	312.7	562.8	0.535	8.844	7.793	3.6304E-04	3.8213E-04	0.288
19	309	313.1	563.6	0.533	8.840	7.789	3.6136E-04	3.8037E-04	0.295
20	310	312.7	562.9	0.537	8.843	7.792	3.6432E-04	3.8347E-04	0.298
21	311	312.5	563.3	0.524	8.842	7.791	3.5666E-04	3.7437E-04	0.239
22	312	313.6	564.4	0.472	8.835	7.785	3.6335E-04	3.8248E-04	0.267
23	313	313.0	563.3	0.490	8.841	7.790	3.3261E-04	3.5011E-04	0.241
24	314	313.1	563.6	0.403	8.840	7.789	2.7315E-04	2.8752E-04	0.265
25	315	312.3	562.2	0.463	8.842	7.791	3.1412E-04	3.3065E-04	0.256
26	316	313.2	563.8	0.454	8.847	7.788	3.4841E-04	3.6780E-04	0.275
27	317	313.4	564.1	0.499	8.837	7.787	3.2535E-04	3.5034E-04	0.249
28	318	316.0	568.8	0.448	8.831	7.784	3.2112E-04	3.2112E-04	0.560
29	319	313.0	563.4	0.482	8.841	7.790	3.2723E-04	3.4444E-04	0.243
30		-0.0		*****	*****	*****	*****	*****	*****
31	321	310.8	558.9	-0.000	8.843	7.809	-0.0000E-39	-0.0000E-39	1.171
32	322	311.1	560.1	-0.000	8.859	7.806	-0.0000E-39	-0.0000E-39	1.089
33	323	311.4	560.8	-0.000	8.837	7.804	-0.0000E-39	-0.0000E-39	1.072
34	324	311.8	561.3	-0.000	8.852	7.800	-0.0000E-39	-0.0000E-39	1.240
35	325	312.1	561.8	-0.000	8.850	7.798	-0.0000E-39	-0.0000E-39	0.590
36	326	312.6	562.7	-0.000	8.845	7.794	-0.0000E-39	-0.0000E-39	3.695
37	327	313.1	563.0	-0.000	8.839	7.789	-0.0000E-39	-0.0000E-39	0.260
38	328	313.6	564.0	-0.000	8.837	7.785	-0.0000E-39	-0.0000E-39	0.351
39	329	313.3	564.0	-0.000	8.837	7.787	-0.0000E-39	-0.0000E-39	0.112
40	330	314.1	565.4	-0.000	8.830	7.780	-0.0000E-39	-0.0000E-39	-0.118
41	331	313.7	564.6	-0.000	8.834	7.784	-0.0000E-39	-0.0000E-39	0.037
42	332	314.4	565.8	-0.000	8.827	7.778	-0.0000E-39	-0.0000E-39	0.106
43	333	314.3	565.3	-0.000	8.842	7.774	-0.0000E-39	-0.0000E-39	0.248
44	334	314.9	566.8	-0.000	8.822	7.774	-0.0000E-39	-0.0000E-39	0.238
45	335	314.3	565.8	-0.000	8.827	7.778	-0.0000E-39	-0.0000E-39	0.217
46	336	314.2	565.8	-0.000	8.828	7.778	-0.0000E-39	-0.0000E-39	0.216
47	337	314.4	565.9	-0.000	8.827	7.778	-0.0000E-39	-0.0000E-39	0.222
48	338	314.0	565.1	-0.000	8.831	7.782	-0.0000E-39	-0.0000E-39	0.435
49	339	313.5	564.9	-0.000	8.832	7.782	-0.0000E-39	-0.0000E-39	0.221
50	340	313.5	564.4	-0.000	8.835	7.785	-0.0000E-39	-0.0000E-39	0.283
51	341	313.5	564.3	-0.000	8.836	7.786	-0.0000E-39	-0.0000E-39	0.492
52	342	-0.0		*****	*****	*****	*****	*****	*****
53	343	311.4	560.5	0.000	8.837	7.804	0.0000E-39	0.0000E-39	1.135
54	344	310.9	559.7	-0.000	8.841	7.808	-0.0000E-39	-0.0000E-39	1.907
55	345	-0.0		*****	*****	*****	*****	*****	*****
56	346	310.8	559.4	-0.000	8.803	7.810	-0.0000E-39	-0.0000E-39	2.211
57	347	309.7	557.4	0.000	8.819	7.819	0.0000E-39	0.0000E-39	4.037
58	348	311.5	561.4	-0.000	8.852	7.800	-0.0000E-39	-0.0000E-39	1.240
59	349	312.7	562.9	-0.000	8.844	7.793	-0.0000E-39	-0.0000E-39	0.940
60	350	313.1	563.6	-0.000	8.840	7.789	-0.0000E-39	-0.0000E-39	0.529

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1152E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES			RS(METER)		HAW/HT		TEST NO.	
5.10	REL	PT(ATM)	TT(DEC K)	HT(JOULE/KG)	RS(FT)	HAW/HT	RS(FT)	34
MACH	LENGTH(METER)	4.00	1217.7	1.2970E C6	1.000	1.000	0.3048	
5.10	REL	PT(PSI)	TT(DEC R)	HT(BTU/LBM)	1.0000	1.000	1.0000	
MACH	LENGTH(FT)	65.60	2191.6	557.75				
5.10	REL	PT(PSI)	TT(DEC R)	HT(BTU/LBM)	1.0000	1.000	1.0000	
MACH	LENGTH(FT)	65.60	2191.6	557.75				

CHAN	T/C	H/W/HT	W/GS	H/HS(1.000)	H/HS(0.907)	H/HS(1.000)	H/HS(0.907)	H/HS(1.000)	H/HS(0.907)
61	271	0.240	-C.CCCC	-0.0000	-0.0000	-C.CCCC	-C.CCCC	-C.CCCC	-0.0000
62	272	0.240	-C.CCCC	-0.0000	-0.0000	-C.CCCC	-C.CCCC	-C.CCCC	-0.0000
63	273	0.241	-C.CCCC	-0.0000	-0.0000	-C.CCCC	-C.CCCC	-C.CCCC	-0.0000
64	274	0.241	C.CCCC	0.0000	0.0000	C.CCCC	C.CCCC	C.CCCC	0.0000
65	275	0.241	C.CCCC	0.0000	0.0000	C.CCCC	C.CCCC	C.CCCC	0.0000
66	276	0.241	-C.CCCC	-0.0000	-0.0000	-C.CCCC	-C.CCCC	-C.CCCC	-0.0000
67	277	0.242	-C.CCCC	-0.0000	-0.0000	-C.CCCC	-C.CCCC	-C.CCCC	-0.0000
68	278	0.242	-C.CCCC	-0.0000	-0.0000	-C.CCCC	-C.CCCC	-C.CCCC	-0.0000

MACH		NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER ROCKET FIELD CALIF. *** PRELIMINARY DATA ***		TEST NO. 158	
5.10	3.8147E C5	RE/VECTP	REL	RS(METER)	RAM/HT
5.10	3.8147E C5	1.1444E C5	1.1444E C5	0.3548	1.500
		RE/FT	REL	RS(FT)	RAM/HT
		3.8147E C5	1.1444E C5	1.0000	1.500

CPAN	T/C	TW(DEC K)	WT(W/GM2)	WT(W/GM2)	CS(PTU/FT2-SEC)	ST(C,907)	ST(O,874)	TIME(SEC)
61	271	210.4	558.7	9.068	7.990	-0.0000E-39	-0.0000E-39	1.279
62	272	210.5	558.9	9.067	7.989	-0.0000E-39	-0.0000E-39	1.431
63	273	210.7	559.3	9.065	7.987	-0.0000E-39	-0.0000E-39	1.769
64	274	210.6	559.1	9.066	7.988	0.0000E-39	0.0000E-39	1.167
65	275	211.0	559.8	9.062	7.985	0.0000E-39	0.0000E-39	0.545
66	276	211.5	560.7	9.057	7.980	-0.0000E-39	-0.0000E-39	1.775
67	277	211.5	561.5	9.053	7.977	-0.0000E-39	-0.0000E-39	1.423
68	278	212.7	562.5	9.045	7.970	-0.0000E-39	-0.0000E-39	-0.339
69	279	213.5	564.2	9.038	7.963	-0.0000E-39	-0.0000E-39	0.443
70	280	214.5	566.0	9.028	7.955	-0.0000E-39	-0.0000E-39	0.115
71	281	215.3	567.5	9.019	7.947	-0.0000E-39	-0.0000E-39	-0.270
72	282	216.1	569.9	9.012	7.941	-0.0000E-39	-0.0000E-39	-0.017
73	283	217.1	570.7	9.002	7.932	-0.0000E-39	-0.0000E-39	-0.376
74	284	217.8	572.0	8.995	7.926	-0.0000E-39	-0.0000E-39	-0.013
75	285	218.6	573.4	8.987	7.919	-0.0000E-39	-0.0000E-39	0.087

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1016E-01 (SLUGS/FT2-SEC)

PROBE NO.= 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 34
 HAW/HT 1.000
 H/W/HT 1.000
 RS(METER) 0.3048
 RS(FT) 1.0000
 CONSTRAINT SET 362

MACH	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JCULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	1.2580E 06	4.50	1151.8	1.2200E 06	0.3048	1.000	158
MACH	REL LENGTH(FT)	PT(PST)	TT(DEG R)	HT(LBTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	4.1934E 05	16.20	2073.3	524.64	1.0000	1.000	34

CHAN	T/C	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	C/LC	H/W/HT	HW/HT	T/C	CHAN	T/C	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.0005	0.0005	0.0006	0.0380	0.258	0.258	206	6	206	0.0380	0.0435	0.0458
2	202	0.0042	0.0048	0.0051	0.0454	0.258	0.258	207	7	207	0.0454	0.0519	0.0547
3	203	0.0207	0.0236	0.0249	0.0524	0.258	0.258	208	8	208	0.0524	0.0600	0.0632
4	204	0.0265	0.0303	0.0319	0.0519	0.258	0.258	209	9	209	0.0519	0.0593	0.0625
5	205	0.0345	0.0394	0.0415	0.0473	0.258	0.258	210	10	210	0.0473	0.0540	0.0569

PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 34

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTL/FT2-SEC)	CSIN/CP2	CS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	201	311.6	560.8	0.003	0.003	8.357	7.364	2.6551E-06	2.8391E-06	0.424
2	202	312.1	561.8	0.035	0.031	8.351	7.359	2.4630E-05	2.5947E-05	0.730
3	203	312.5	562.6	0.173	0.152	8.347	7.355	1.2063E-04	1.2708E-04	0.507
4	204	312.8	563.0	0.221	0.195	8.345	7.353	1.5469E-04	1.6297E-04	0.306
5	205	312.8	563.1	0.287	0.253	8.344	7.352	2.0092E-04	2.1168E-04	-0.074
6	206	313.3	563.9	0.317	0.280	8.340	7.349	2.2187E-04	2.3376E-04	-0.170
7	207	313.3	563.9	0.379	0.334	8.340	7.349	2.6470E-04	2.7888E-04	-0.050
8	208	313.7	564.7	0.437	0.385	8.336	7.345	3.0584E-04	3.2223E-04	0.187
9	209	313.9	565.0	0.432	0.381	8.334	7.343	3.0243E-04	3.1865E-04	0.203
10	210	313.8	564.8	0.394	0.347	8.335	7.344	2.7569E-04	2.9046E-04	0.161

REL LENGTH(METER) PT(ATP) TT(DEG K) HT(JCULE/KG) RS(METER) HAW/HT TEST NO. 158
 1.2580E 06 4.50 1151.8 1.2270E 06 0.3048 1.000 34
 REL LENGTH(FT) PT(PST) TT(DEG R) HT(FTU/LBP) RS(FT) HAW/HT RUN NO.
 1.2580E 06 66.20 2073.3 524.64 1.0000 1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1500E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.2856E 06 1.1755E 06 0.514 4.50 1196.7 1.2748E 06 0.3048 1.000 1.000 1.000 1.000
 MACH 5.10 3.9184E 05 1.1755E 06 3.000 66.20 2157.7 548.19 1.0000 1.0000 1.0000 1.0000

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/PS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.247	-0.0000	-0.0000	0.0000	-0.0000	36	236	0.246	0.0002	0.0002	0.0002	0.0002
12	302	0.247	-0.0000	-0.0000	0.0000	-0.0000	37	237	0.247	0.0034	0.0034	0.0034	0.0041
13	303	0.247	-0.0000	-0.0000	0.0000	-0.0000	38	238	0.247	0.0242	0.0242	0.0242	0.0291
14	304	0.247	-0.0000	-0.0000	0.0000	-0.0000	39	239	0.247	0.0322	0.0322	0.0322	0.0387
15	305	0.247	-0.0000	-0.0000	0.0000	-0.0000	40	240	0.247	0.0363	0.0363	0.0414	0.0436
16	306	0.247	-0.0000	-0.0000	0.0000	-0.0000	41	241	0.247	0.0525	0.0525	0.0600	0.0631
17	307	0.247	-0.0000	-0.0000	0.0000	-0.0000	42	242	0.248	0.0573	0.0573	0.0654	0.0688
18	308	0.246	-0.0000	-0.0000	0.0000	-0.0000	43	243	0.248	0.0545	0.0545	0.0621	0.0654
19	309	0.247	-0.0000	-0.0000	0.0000	-0.0000	44	244	0.248	0.0520	0.0520	0.0584	0.0625
20	310	0.246	-0.0000	-0.0000	0.0000	-0.0000	45	245	0.248	0.0529	0.0529	0.0604	0.0636
21	311	0.247	-0.0000	-0.0000	0.0000	-0.0000	46	246	0.248	0.0461	0.0461	0.0526	0.0554
22	312	0.247	-0.0000	-0.0000	0.0000	-0.0000	47	247	0.248	0.0541	0.0541	0.0617	0.0650
23	313	0.247	-0.0000	-0.0000	0.0000	-0.0000	48	248	0.247	0.0601	0.0601	0.0686	0.0722
24	314	0.247	-0.0000	-0.0000	0.0000	-0.0000	49	249	0.247	0.0500	0.0500	0.0571	0.0601
25	315	0.247	-0.0000	-0.0000	0.0000	-0.0000	50	250	0.247	0.0527	0.0527	0.0601	0.0633
26	316	0.247	-0.0000	-0.0000	0.0000	-0.0000	51	261	0.247	0.0164	0.0164	0.0187	0.0197
27	317	0.247	-0.0000	-0.0000	0.0000	-0.0000	52	262	0.247	0.0000	0.0000	0.0000	0.0000
28	318	0.249	-0.0000	-0.0000	0.0000	-0.0000	53	263	0.245	-0.0015	-0.0015	-0.0017	-0.0018
29	319	0.247	-0.0000	-0.0000	0.0000	-0.0000	54	264	0.245	0.0007	0.0007	0.0008	0.0009
30	231	0.245	0.0005	0.0005	0.0005	0.0005	55	265	0.245	0.0000	0.0000	0.0000	0.0000
31	232	0.245	0.0050	0.0050	0.0050	0.0050	56	266	0.244	-0.0039	-0.0039	-0.0045	-0.0047
32	233	0.245	0.0003	0.0003	0.0003	0.0003	57	267	0.246	0.0009	0.0009	0.0011	0.0011
33	234	0.246	0.0009	0.0009	0.0009	0.0009	58	268	0.246	0.0052	0.0052	0.0059	0.0062
34	235	0.246	0.0005	0.0005	0.0005	0.0005	59	269	0.247	0.0225	0.0225	0.0257	0.0270

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. PRELIMINARY DATA *** TEST NO. 139
MACH 5.10 1.2856E 06 1.1755E 06 0.514 4.50 1198.7 1198.7 1.2749E 06 0.3048 1.000
MACH 5.10 3.9164E 05 1.1755E 06 3.000 66.20 2157.7 549.14 1.0000 1.0000

CHAN	T/C	TW(DEC K)	TW(DEC R)	G(W/GRZ)	C(BTL/FT2-SEC)	GSIN(GRZ)	GSRTU/FT2-SEC	STIG(Q07)	STIG(ETA)	TIME(SEC)
11	301	313.3	563.9	-0.000	-0.000	0.838	7.787	-0.0000E-39	-C.0000E-39	C.398
12	302	313.5	564.4	-0.000	-0.000	0.835	7.785	-0.0000E-39	-C.0000E-39	C.407
13	303	313.0	563.9	-0.000	-0.000	0.841	7.790	-0.0000E-39	-C.0000E-39	C.377
14	304	313.6	564.5	-0.000	-0.000	0.835	7.789	-0.0000E-39	-C.0000E-39	C.358
15	305	313.1	563.5	-0.000	-0.000	0.840	7.790	-0.0000E-39	-C.0000E-39	C.362
16	306	313.0	564.5	-0.000	-0.000	0.837	7.786	-0.0000E-39	-C.0000E-39	0.333
17	307	313.4	564.1	-0.000	-0.000	0.844	7.793	-0.0000E-39	-C.0000E-39	0.325
18	308	312.7	562.8	-0.000	-0.000	0.840	7.792	-0.0000E-39	-C.0000E-39	C.288
19	309	313.1	563.6	-0.000	-0.000	0.840	7.792	-0.0000E-39	-C.0000E-39	C.294
20	310	312.9	562.9	-0.000	-0.000	0.842	7.791	-0.0000E-39	-C.0000E-39	C.267
21	311	312.9	563.3	-0.000	-0.000	0.842	7.785	-0.0000E-39	-C.0000E-39	0.340
22	312	313.8	564.4	-0.000	-0.000	0.835	7.790	-0.0000E-39	-C.0000E-39	0.283
23	313	313.0	563.3	-0.000	-0.000	0.840	7.790	-0.0000E-39	-C.0000E-39	0.293
24	314	313.1	563.6	-0.000	-0.000	0.842	7.791	-0.0000E-39	-C.0000E-39	0.274
25	315	312.9	563.2	-0.000	-0.000	0.839	7.787	-0.0000E-39	-C.0000E-39	0.245
26	316	313.2	563.8	-0.000	-0.000	0.837	7.787	-0.0000E-39	-C.0000E-39	C.360
27	317	313.4	564.1	-0.000	-0.000	0.831	7.784	-0.0000E-39	-C.0000E-39	0.243
28	318	313.0	563.8	-0.000	-0.000	0.841	7.790	-0.0000E-39	-C.0000E-39	0.243
29	319	313.0	563.4	-0.000	-0.000	0.841	7.790	-0.0000E-39	-C.0000E-39	0.243
30	231	310.4	559.4	0.004	0.004	0.843	7.803	2.9433E-04	3.0599E-04	1.211
31	232	311.1	560.1	0.045	0.039	0.839	7.804	3.0177E-05	3.1772E-05	1.085
32	233	311.4	560.5	0.003	0.003	0.857	7.804	1.4284E-06	2.0296E-06	1.072
33	234	311.8	561.3	0.008	0.007	0.852	7.800	5.4900E-06	5.7878E-06	1.240
34	235	312.1	561.8	0.005	0.004	0.850	7.798	3.2204E-06	3.3894E-06	0.590
35	236	312.6	562.7	0.002	0.002	0.845	7.794	1.2005E-06	1.2036E-06	0.699
36	237	313.1	563.4	0.030	0.027	0.839	7.789	2.0570E-05	2.1832E-05	0.240
37	238	313.6	564.4	0.214	0.188	0.835	7.785	1.4508E-04	1.5271E-04	0.351
38	239	313.3	564.0	0.285	0.251	0.837	7.787	1.9316E-04	2.0332E-04	0.112
39	240	314.1	565.4	0.320	0.282	0.830	7.780	2.1749E-04	2.2894E-04	0.119
40	241	313.7	564.6	0.464	0.409	0.834	7.784	3.1517E-04	3.3176E-04	0.037
41	242	314.9	565.8	0.586	0.446	0.827	7.778	3.4375E-04	3.6197E-04	0.103
42	243	314.9	565.8	0.490	0.423	0.822	7.774	3.1212E-04	3.4344E-04	0.244
43	244	314.9	566.8	0.459	0.405	0.822	7.774	3.1744E-04	3.2853E-04	0.239
44	245	314.3	565.8	0.467	0.412	0.827	7.778	3.1744E-04	3.3417E-04	0.216
45	246	314.3	565.8	0.407	0.359	0.828	7.778	2.7647E-04	2.9103E-04	0.221
46	247	314.4	565.9	0.477	0.421	0.827	7.778	3.2436E-04	3.4145E-04	0.221
47	248	314.0	565.1	0.531	0.468	0.831	7.782	3.6088E-04	3.7968E-04	0.434
48	249	313.9	564.3	0.542	0.389	0.832	7.782	3.6088E-04	3.7968E-04	0.221
49	250	313.5	564.4	0.465	0.389	0.835	7.785	3.1597E-04	3.3261E-04	0.263
50	251	313.5	564.3	0.145	0.128	0.836	7.786	9.8231E-05	1.0342E-04	0.492
51	252	-0.0	-0.0	0.000	0.000	0.836	7.786	0.0000E-00	0.0000E-00	0.000
52	253	311.4	561.5	-0.013	-0.012	0.857	7.804	-8.9200E-06	-9.3802E-06	1.135
53	254	310.9	559.7	0.007	0.006	0.861	7.808	4.4038E-06	4.6345E-06	1.907
54	255	-0.0	-0.0	0.000	0.000	0.861	7.808	0.0000E-00	0.0000E-00	0.000
55	256	310.8	559.4	0.007	0.006	0.863	7.810	4.4135E-06	4.6450E-06	2.211
56	257	309.7	557.4	-0.035	-0.031	0.874	7.819	-2.3446E-05	-2.4674E-05	0.038
57	258	311.9	561.4	0.008	0.007	0.852	7.808	4.4499E-06	4.6435E-06	1.360
58	259	312.7	562.9	0.046	0.041	0.844	7.793	3.1228E-05	3.2870E-05	0.940
59	260	313.1	563.6	0.199	0.175	0.840	7.789	1.3485E-04	1.4194E-04	0.529

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1152E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 1.2516E 06 1.1444E 06 0.914 4.5C 1217.7 1.2970E 06 0.3048 1.0000 1.0000 1.0000
 MACH 5.10 3.3147E 03 1.1444E 06 3.300 66.20 2191.8 557.75 1.0000 1.0000 1.0000
 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) FAW/HT
 REL LENGTH(FT) P1(P51) TT(DEG M) HT(LBTU/LBM) RS(FT) HAW/HT
 H/HS(1.000) H/HS(0.907) H/HS(0.874) H/HS(1.000) H/HS(C.907) H/HS(0.874)

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	G/QS	H/HS(1.000)	H/HS(C.907)	H/HS(0.874)
61	271	0.240	0.0015	0.0015	0.0019	0.0019	69	279	0.243	0.0029	0.0029	0.0033	0.0034
62	272	0.240	0.0002	0.0002	0.0002	0.0002	70	280	0.244	0.0192	0.0192	0.0219	0.0231
63	273	0.241	0.0006	0.0006	0.0007	0.0007	71	281	0.244	0.0345	0.0345	0.0393	0.0414
64	274	0.241	-0.0028	-0.0032	-0.0033	-0.0033	72	282	0.245	0.0535	0.0535	0.0610	0.0642
65	275	0.241	-0.0005	-0.0006	-0.0007	-0.0007	73	283	0.246	0.0383	0.0383	0.0437	0.0460
66	276	0.241	0.0006	0.0006	0.0007	0.0007	74	284	0.246	0.0473	0.0473	0.0539	0.0568
67	277	0.242	0.0013	0.0013	0.0015	0.0015	75	285	0.247	0.0512	0.0512	0.0584	0.0614
68	278	0.242	0.0003	0.0003	0.0004	0.0004							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***									
MACH	RE/FEET	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAW/HT	TEST NO.	RU# NO.
5.10	1.2516E 06	1.1444E 06	4.50	1217.7	1.2970E 06	C.3048	1.000	158	34
MACH	RE/FT	REL LENGTH(FT)	PT(PST)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	3.8147E 05	1.1444E 06	66.20	2191.8	557.75	1.0000	1.000		

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(M/CMZ)	Q(BTU/FT2-SEC)	GS(W/LM2)	GS(BTU/FT2-SEC)	ST(O.907)	ST(O.874)	TIME(SEC)
61	271	310.4	558.7	0.014	0.012	9.068	7.990	9.3824E-06	9.8710E-06	1.279
62	272	310.5	558.9	0.002	0.002	9.067	7.989	1.2220E-06	1.2856E-06	1.431
63	273	310.7	559.3	0.005	0.004	9.065	7.987	3.3431E-06	3.5173E-06	1.758
64	274	310.6	559.1	-0.025	-0.022	9.066	7.988	-1.678E-05	-1.7662E-05	1.157
65	275	311.0	559.8	-0.005	-0.004	9.062	7.985	-3.3074E-06	-3.4798E-06	C.546
66	276	311.5	560.7	0.005	0.004	9.057	7.980	3.4052E-06	3.5828E-06	1.775
67	277	311.9	561.5	0.011	0.010	9.053	7.977	7.5906E-06	7.9867E-06	1.431
68	278	312.7	562.9	C.003	C.003	9.045	7.970	2.1172E-06	2.2273E-06	-0.399
69	279	313.5	564.2	C.026	C.023	9.036	7.963	1.7358E-05	1.8266E-05	0.443
70	280	314.5	566.0	0.174	0.153	9.028	7.955	1.1669E-04	1.2280E-04	C.116
71	281	315.3	567.5	C.311	0.274	9.019	7.947	2.0906E-04	2.2002E-04	-0.271
72	282	316.1	568.9	0.482	0.425	9.012	7.941	3.2453E-04	3.4155E-04	-0.017
73	283	317.1	570.7	0.345	C.304	9.002	7.932	2.3243E-04	2.4463E-04	-0.376
74	284	317.8	572.0	0.425	0.375	8.995	7.926	2.8682E-04	3.0190E-04	-C.013
75	285	318.6	573.4	0.460	C.405	8.987	7.919	3.1032E-04	3.2665E-04	C.086

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1016E-01 (SLUGS/FT2-SEC)

PROBE NC. = 3

*** PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER POFFETT FIELD CALIF. TEST NO. 153
 MACH 5.10 RE/METER REL LENGTH(METER) PT(ATM) T(1 DEG K) HT(JOULE/KG) RS(METER) HAW/HT 1.000 RUN NO. 35
 MACH 5.10 2.4577E C5 2.2474E 00 3.714 8.13 1159.3 1.2286E C6 0.3548 1.000 CONSTANT SET 551
 MACH 5.10 7.4912E C5 2.2474E 00 3.000 119.57 2086.8 523.40 1.000

CHAN	T/C	HW/FT	U/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	HW/HT	U/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
1	201	0.255	-C.CCCC	-C.CCCC	-C.CCCC	-C.CCCC	6	206	0.257	-0.0000	-0.0000	-0.0000	-0.0000
2	202	0.256	-C.CCCC	-C.CCCC	-0.0000	-0.0000	7	207	0.258	0.0000	0.0000	0.0000	0.0000
3	203	0.257	-C.CCCC	-0.0000	-0.0000	-0.0000	8	208	0.258	0.0000	0.0000	0.0000	0.0000
4	204	0.257	-C.CCCC	-0.0000	-0.0000	-0.0000	9	209	0.258	0.0000	0.0000	0.0000	0.0000
5	205	0.257	-C.CCCC	-0.0000	-0.0000	-0.0000	10	210	0.258	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	TN(DEG K)	TN(DEG R)	Q (W/CM2)	Q (BTU/FT2-SEC)	WS(W/CM2)	WS(BTU/FT2-SEC)	ST(O.874)	ST(O.907)	ST(O.874)	TIME(SEC)
1	201	312.5	562.5	-0.000	-0.000	11.326	9.980	-0.000E-39	-0.000E-39	-0.000E-39	0.542
2	202	313.3	564.0	-0.000	-0.000	11.315	9.970	-0.000E-39	-0.000E-39	-0.000E-39	0.751
3	203	313.5	565.1	-0.000	-0.000	11.307	9.963	-0.000E-39	-0.000E-39	-0.000E-39	0.431
4	204	314.2	566.6	-0.000	-0.000	11.303	9.959	-0.000E-39	-0.000E-39	-0.000E-39	0.117
5	205	314.4	566.0	-0.000	-0.000	11.300	9.957	-0.000E-39	-0.000E-39	-0.000E-39	-0.499
6	206	314.5	566.9	-0.000	-0.000	11.294	9.951	-0.000E-39	-0.000E-39	-0.000E-39	-0.675
7	207	315.1	567.1	0.000	0.000	11.292	9.950	0.000E-39	0.000E-39	0.000E-39	-0.468
8	208	315.7	568.3	0.000	0.000	11.284	9.942	0.000E-39	0.000E-39	0.000E-39	-0.052
9	209	316.0	568.7	0.000	0.000	11.280	9.939	0.000E-39	0.000E-39	0.000E-39	-0.047
10	210	315.8	568.4	0.000	0.000	11.282	9.941	0.000E-39	0.000E-39	0.000E-39	-0.095

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0669E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

PACH 5.10 2.4577E C6
MACH 5.10 7.4912E C5

REL LENGTH(METER) 2.2474E C6
REL LENGTH(FT) 7.4912E C5

PT(ATM) 8.13
PT(PST) 119.57

TI(DEG K) 1159.3
TI(DEG R) 2086.8

RS(METER) 0.3048
RS(FT) 1.0000

FAW/HT 1.000
HAW/HT 1.000

TEST AC. 158
RUN NO. 35

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2-322CE 06 2-1232E 06 7.0175E C5 2-1232E 05
REL LENGTH(METER) 0.914
REL LENGTH(FT) 3.000
PT(ATM) 8.13
PI(PSI) 119.57
TT(DEG K) 1198.7
TT(DEG R) 2157.7
H((JOULE/KG) 1.2748E C6
MI(FT) 548.19
RS(METER) 0.3048
RS(FT) 1.0000
HAM/HT 1.000
HAM/HT 1.000
TEST NO. 158
RUN NO. 35

CHAN	T/C	H/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	C.0856	0.0856	0.0977	0.1029	0.1079	36	236	0.247	-0.0000	-0.0000	-0.0000	-0.0000
12	302	C.0828	0.0828	0.0945	0.0995	0.1045	37	237	0.248	-0.0000	-0.0000	-0.0000	-0.0000
13	303	C.0770	0.0770	0.0879	0.0925	0.0975	38	238	0.248	-0.0000	-0.0000	-0.0000	-0.0000
14	304	C.0717	0.0717	0.0818	0.0862	0.0908	39	239	0.248	-0.0000	-0.0000	-0.0000	-0.0000
15	305	C.0735	0.0735	0.0839	0.0883	0.0928	40	240	0.249	-0.0000	-0.0000	-0.0000	-0.0000
16	306	C.0651	0.0651	0.0743	0.0782	0.0822	41	241	0.248	-0.0000	-0.0000	-0.0000	-0.0000
17	307	C.0633	0.0633	0.0722	0.0761	0.0801	42	242	0.249	-0.0000	-0.0000	-0.0000	-0.0000
18	308	C.0586	0.0586	0.0668	0.0703	0.0743	43	243	0.249	-0.0000	-0.0000	-0.0000	-0.0000
19	309	C.0580	0.0580	0.0662	0.0697	0.0737	44	244	0.249	-0.0000	-0.0000	-0.0000	-0.0000
20	310	C.0596	0.0596	0.0680	0.0716	0.0752	45	245	0.249	-0.0000	-0.0000	-0.0000	-0.0000
21	311	C.0604	0.0604	0.0689	0.0726	0.0762	46	246	0.249	-0.0000	-0.0000	-0.0000	-0.0000
22	312	C.0597	0.0597	0.0681	0.0717	0.0753	47	247	0.249	-0.0000	-0.0000	-0.0000	-0.0000
23	313	C.0548	0.0548	0.0625	0.0658	0.0692	48	248	0.249	-0.0000	-0.0000	-0.0000	-0.0000
24	314	C.0456	0.0456	0.0520	0.0548	0.0576	49	249	0.249	-0.0000	-0.0000	-0.0000	-0.0000
25	315	C.0519	0.0519	0.0592	0.0622	0.0654	50	250	0.248	-0.0000	-0.0000	-0.0000	-0.0000
26	316	C.0556	0.0556	0.0635	0.0668	0.0701	51	251	0.248	-0.0000	-0.0000	-0.0000	-0.0000
27	317	C.0552	0.0552	0.0630	0.0663	0.0696	52	252	0.248	-0.0000	-0.0000	-0.0000	-0.0000
28	318	C.0504	0.0504	0.0575	0.0605	0.0635	53	253	0.248	-0.0000	-0.0000	-0.0000	-0.0000
29	319	C.0519	0.0519	0.0592	0.0624	0.0654	54	254	0.248	-0.0000	-0.0000	-0.0000	-0.0000
30	231	C.0500	0.0500	0.0600	0.0630	0.0660	55	255	0.248	-0.0000	-0.0000	-0.0000	-0.0000
31	232	C.0500	0.0500	0.0600	0.0630	0.0660	56	256	0.245	0.0000	0.0000	0.0000	0.0000
32	233	C.0500	0.0500	0.0600	0.0630	0.0660	57	257	0.246	0.0000	0.0000	0.0000	0.0000
33	234	C.0500	0.0500	0.0600	0.0630	0.0660	58	258	0.247	0.0000	0.0000	0.0000	0.0000
34	235	C.0500	0.0500	0.0600	0.0630	0.0660	59	259	0.248	0.0000	0.0000	0.0000	0.0000
35	235	C.0500	0.0500	0.0600	0.0630	0.0660	60	260	0.248	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.3220E C6 REL LENGTH(METER) 0.914 P1(FT) 1198.7 J1(SEC) 2157.7 ST(0.907) 4.0239E-04 TIME(SEC) 0.348

Table with columns: CHAM, T/C, TM(DEC K), TW(DEC R), Q(W/CM2), QB(TU/FT2-SEC), QS(BTU/FT2-SEC), RS(M/CM2), ST(0.874), TIME(SEC). Rows 11-60.

STREAM DENSITY-VELOCITY PRODUCT = 2.0143E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 REL RE/METER 2.0590E C5 REL LENGTH(METER) 0.914 PT(ATM) 8.13 TT(CEG K) 1220.5 FT(JCULE/KG) 1.3003E 06 RS(METER) 0.3048 HAW/HT 1.000 RUN NO. 35
 MACH 5.10 REL RE/FT 6.8632E C5 REL LENGTH(FT) 3.000 PT(PSI) 119.57 TT(CEG R) 2196.4 FT(HTL/LBM) 559.17 RS(FT) 1.000 HAW/HT 1.000
 CHAN T/C HW/FT Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874) H/HS(1.000) H/HS(0.907) H/HS(0.874)
 61 271 0.241 -0.0000 -0.0000 -0.0000 0.0000 69 279 0.244 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000
 62 272 0.241 0.0000 0.0000 0.0000 70 280 0.245 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000
 63 273 0.241 -0.0000 -0.0000 -0.0000 71 281 0.246 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000
 64 274 0.241 0.0000 0.0000 0.0000 72 282 0.247 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000
 65 275 0.241 0.0000 0.0000 0.0000 73 283 0.247 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000
 66 276 0.242 0.0000 0.0000 0.0000 74 284 0.248 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000
 67 277 0.242 -0.0000 -0.0000 -0.0000 75 285 0.249 -0.0000 -0.0000 -0.0000 -0.0000 -0.0000
 68 278 0.242 -0.0000 -0.0000 -0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***											
MACH		RE/METER		REL		PT(ATM)		RS(METER)		TEST NO.	
5.10		2.2517E C6		2.0590E C6		8.13		0.3048		158	
MACH		RE/FT		REL		PT(P51)		RS(FT)		RUN NO.	
5.10		5.3232E C5		2.0590E C6		119.57		1.0000		35	
		REL		REL		PT(PSI)		RS(FT)		HAM/HT	
		2.0590E C6		3.000		119.57		1.0000		1.000	
		REL		REL		PT(PSI)		RS(FT)		HAM/HT	
		2.0590E C6		3.000		119.57		1.0000		1.000	
CHAN	I/C	TW(DEC K)	TW(DEC R)	Q(BTU/FT2-SEC)	Q(W/CM2)	Q(BTU/FT2-SEC)	Q(W/CM2)	QS(BTU/FT2-SEC)	ST(G.907)	ST(O.874)	TIME(SEC)
61	271	312.0	561.6	-0.000	-0.000	12.205	12.205	10.755	-0.0000E-39	-0.0000E-39	2.043
62	272	312.2	561.9	0.000	0.000	12.203	12.203	10.753	0.0000E-39	0.0000E-39	-6.673
63	273	312.3	562.2	-0.000	-0.000	12.201	12.201	10.751	-0.0000E-39	-0.0000E-39	2.503
64	274	312.2	561.9	0.000	0.000	12.203	12.203	10.753	0.0000E-39	0.0000E-39	-1.598
65	275	312.6	562.6	0.000	0.000	12.198	12.198	10.748	0.0000E-39	0.0000E-39	0.210
66	276	313.2	563.8	0.000	0.000	12.190	12.190	10.741	0.0000E-39	0.0000E-39	0.953
67	277	313.7	564.7	-0.000	-0.000	12.183	12.183	10.734	-0.0000E-39	-0.0000E-39	1.314
68	278	314.7	566.4	-0.000	-0.000	12.170	12.170	10.723	-0.0000E-39	-0.0000E-39	0.703
69	279	315.7	568.2	-0.000	-0.000	12.156	12.156	10.711	-0.0000E-39	-0.0000E-39	0.268
70	280	317.0	570.7	-0.000	-0.000	12.138	12.138	10.695	-0.0000E-39	-0.0000E-39	0.144
71	281	318.2	572.8	-0.000	-0.000	12.123	12.123	10.682	-0.0000E-39	-0.0000E-39	-0.419
72	282	319.2	574.5	-0.000	-0.000	12.115	12.115	10.671	-0.0000E-39	-0.0000E-39	-0.307
73	283	320.3	576.5	-0.000	-0.000	12.095	12.095	10.657	-0.0000E-39	-0.0000E-39	-0.494
74	284	321.1	578.1	-0.000	-0.000	12.084	12.084	10.647	-0.0000E-39	-0.0000E-39	0.022
75	285	322.1	579.8	-0.000	-0.000	12.070	12.070	10.636	-0.0000E-39	-0.0000E-39	-0.043

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.9861E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST AG. 158
 RUN NO. 35
 CONSTANT SET 352

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(CEG K)	FT(JOULE/KG)	RS(METER)	HAW/HT	TEST AG.
5.10	2.4577E 06	2.2474E 06	0.914	8.13	1159.3	1.2288E 06	0.3048	1.000	158
MACH	RE/FT	REL	LENGTH(FT)	PI(PST)	TT(CEG R)	MT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	7.4912E 05	2.2474E 06	3.000	119.57	2086.8	528.40	1.0000	1.000	35

CHAN	T/C	H/HT	C/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	Q/QS	H/HT	T/C	CHAN	T/C	H/HT	Q/QS
1	201	0.255	0.0006	0.0007	0.0007	0.0007	0.0317	0.257	6	206	0.257	0.0317	0.0362
2	202	0.256	0.0051	0.0059	0.0062	0.0062	0.0396	0.258	7	207	0.258	0.0396	0.0459
3	203	0.257	0.0219	0.0251	0.0264	0.0264	0.0500	0.258	8	208	0.258	0.0500	0.0571
4	204	0.257	0.0256	0.0292	0.0308	0.0308	0.0488	0.258	9	209	0.258	0.0488	0.0558
5	205	0.257	0.0298	0.0341	0.0359	0.0359	0.0441	0.258	10	210	0.258	0.0441	0.0504

MACH		NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. PRELIMINARY DATA		TEST NO. 158	
5.10		RE/METER	RS(METER)	HAW/HT	RUN NO. 35
MACH		REL	HT(JOULE/KG)	HAW/HT	
5.10		2.4577E 06	1.2288E 06	1.000	
		RE/FT	RS(FT)	HAW/HT	
		7.4912E 05	0.3048	1.000	
		REL	HT(BTU/LBM)	1.000	
		2.2474E 06	528.40	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	G(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(G.C.07)	ST(G.874)	TIME(SEC)
1	201	312.5	562.5	0.006	0.006	11.316	9.980	2.4630E-06	2.6154E-06	0.542
2	202	313.3	564.0	0.051	0.051	11.315	9.970	2.2382E-05	2.3577E-05	0.751
3	203	313.9	565.1	0.248	0.215	11.307	9.963	9.5675E-05	1.0079E-04	0.431
4	204	314.2	565.6	0.289	0.255	11.303	9.959	1.1153E-04	1.1749E-04	0.117
5	205	314.4	566.0	0.337	0.297	11.300	9.957	1.3004E-04	1.3700E-04	0.499
6	206	314.9	566.9	0.358	0.315	11.294	9.951	1.3817E-04	1.4557E-04	0.697
7	207	315.1	567.1	0.448	0.394	11.292	9.950	1.7283E-04	1.8208E-04	0.465
8	208	315.7	568.3	0.564	0.497	11.284	9.942	2.1775E-04	2.2946E-04	0.052
9	209	316.0	568.7	0.551	0.485	11.280	9.939	2.1296E-04	2.2437E-04	0.047
10	210	315.8	568.4	0.498	0.439	11.282	9.941	1.9237E-04	2.0267E-04	0.096

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0669E-01 (SLUGS/FT2-SEC)

PROBE NC. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.			
5.10	2.3220E 06	2.1232E 06	0.914	8.13	1.2748E 06	0.3048	1.000	153			
MACH	RE/FEET	REL LENGTH(FT)	PI(P/SI)	TT(DEG R)	HL(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.			
5.10	7.0775E 05	2.1232E 06	3.000	119.57	548.19	1.0000	1.000	35			
CHAN	T/C	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	V/PS(1.000)	m/HS(0.907)	P/MS(0.874)
11	301	-0.0000	-0.0000	-0.0000	36	236	0.247	0.0016	0.0019	0.0019	0.0020
12	302	-0.0000	-0.0000	-0.0000	37	237	0.248	0.0063	0.0072	0.0072	0.0076
13	303	-0.0000	-0.0000	-0.0000	38	238	0.248	0.0268	0.0305	0.0305	0.0322
14	304	-0.0000	-0.0000	-0.0000	39	239	0.248	0.0351	0.0401	0.0401	0.0422
15	305	-0.0000	-0.0000	-0.0000	40	240	0.249	0.0421	0.0481	0.0481	0.0506
16	306	-0.0000	-0.0000	-0.0000	41	241	0.248	0.0509	0.0581	0.0581	0.0612
17	307	-0.0000	-0.0000	-0.0000	42	242	0.248	0.0566	0.0646	0.0646	0.0680
18	308	-0.0000	-0.0000	-0.0000	43	243	0.249	0.0548	0.0626	0.0626	0.0654
19	309	-0.0000	-0.0000	-0.0000	44	244	0.249	0.0512	0.0593	0.0593	0.0615
20	310	-0.0000	-0.0000	-0.0000	45	245	0.249	0.0520	0.0593	0.0593	0.0625
21	311	-0.0000	-0.0000	-0.0000	46	246	0.245	0.0442	0.0502	0.0502	0.0537
22	312	-0.0000	-0.0000	-0.0000	47	247	0.249	0.0536	0.0611	0.0611	0.0648
23	313	-0.0000	-0.0000	-0.0000	48	248	0.249	0.0528	0.0623	0.0623	0.0715
24	314	-0.0000	-0.0000	-0.0000	49	249	0.249	0.0494	0.0564	0.0564	0.0584
25	315	-0.0000	-0.0000	-0.0000	50	250	0.248	0.0501	0.0572	0.0572	0.0602
26	316	-0.0000	-0.0000	-0.0000	51	261	0.248	0.0168	0.0168	0.0168	0.0202
27	317	-0.0000	-0.0000	-0.0000	52	262	0.246	0.0000	0.0000	0.0000	0.0000
28	318	-0.0000	-0.0000	-0.0000	53	263	0.246	0.0002	0.0002	0.0002	0.0004
29	319	-0.0000	-0.0000	-0.0000	54	774	0.245	0.0001	0.0001	0.0001	0.0001
30	320	-0.0000	-0.0000	-0.0000	55	774	0.245	0.0000	0.0000	0.0000	0.0000
31	231	-0.0002	-0.0002	-0.0002	56	265	0.245	0.0012	0.0012	0.0012	0.0014
32	232	0.0032	0.0032	0.0032	57	266	0.245	-0.0107	-0.0107	-0.0107	-0.0129
33	233	0.0005	0.0005	0.0005	58	267	0.246	0.0027	0.0027	0.0027	0.0032
34	234	0.0001	0.0001	0.0001	59	268	0.247	0.0047	0.0047	0.0047	0.0057
35	235	0.0010	0.0010	0.0010	60	269	0.248	0.0231	0.0231	0.0231	0.0277

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.3220E 06 7.0775E 05 2.1232E 06 3.000 119.57 2157.7 548.19 1.0000 1.0000 1.0000 1.0000

Table with columns: CHAM, T/C, TWIDEG, K, TWIDEG, R, REL, LENGTH, METER, PT, PSI, I, DEG, R, MI, I, LB, M, Q, (BTU/FT2-SEC), Q, (W/CM2), Q, (BTU/FT2-SEC), ST, (G-B74), TIME, (SEC). Rows 11-69.

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0143E-01 (SLUGS/FT2-SEC)

PROBE M.C.# -2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.2517E 06 REL LENGTH(METER) P(T/ATP) TT(DEG K) MT(JOULE/KG) MS(METER) HAM/HT TEST NO. 158
 MACH 5.10 6.8632E 05 REL LENGTH(FT) P(PSI) TT(DEG R) HT(HIU/LBM) RS(FT) HAM/HT RUN NO. 35

CHAN	T/C	TWIDEG K)	TWIDEG R)	Q(W/C.2)	Q(BTL/FT2-SEC)	CS(W/CM2)	GS(BTU/FT2-SEC)	ST(I0.907)	ST(I0.874)	TIME(SEC)
61	271	312.0	561.6	0.211	0.009	12.205	10.755	3.9159E-06	4.1201E-06	2.045
62	272	312.2	561.9	-0.201	-0.001	12.203	10.753	-3.1766E-07	-3.3422E-07	-6.679
63	273	312.3	562.2	0.005	0.004	12.201	10.751	1.8689E-06	1.9663E-06	2.508
64	274	312.2	561.9	-0.201	-0.001	12.203	10.753	-5.3676E-07	-5.6475E-07	-1.598
65	275	312.6	562.6	-0.207	-0.006	12.198	10.748	-2.4853E-06	-2.6150E-06	-0.210
66	276	313.2	563.8	-0.202	-0.002	12.190	10.741	-8.8022E-07	-9.2617E-07	-0.953
67	277	313.7	564.7	0.011	0.009	12.183	10.734	3.9151E-06	4.1196E-06	1.314
68	278	314.7	566.4	0.219	0.017	12.170	10.723	7.1674E-06	7.5633E-06	0.708
69	279	315.7	568.2	0.046	0.041	12.156	10.711	1.7105E-05	1.8001E-05	0.368
70	280	317.0	570.7	0.279	0.246	12.138	10.695	1.0392E-04	1.0937E-04	0.144
71	281	318.2	572.8	0.413	0.364	12.123	10.682	1.5421E-04	1.6231E-04	-0.420
72	282	319.2	574.5	0.580	0.511	12.110	10.671	2.1641E-04	2.2779E-04	-0.308
73	283	320.3	576.5	0.822	0.674	12.095	10.657	1.8001E-04	1.8953E-04	-0.495
74	284	321.1	578.1	0.629	0.554	12.084	10.647	2.3521E-04	2.4761E-04	-0.021
75	285	322.1	579.8	0.600	0.528	12.070	10.636	2.2471E-04	2.3658E-04	-0.049

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.986E-01 (SLUGS/FT2-SEC)

PROBE HC. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 36

REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000

REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000

REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000

REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000

CHAN	T/C	FW/HT	C/CS	F/HS(1.000)	F/HS(0.507)	F/HS(0.374)	CHAN	T/C	Hw/HT	U/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.260	-0.0000	-0.0000	-0.0000	-0.0000	5	206	0.267	-0.0000	-0.0000	-0.0000	-0.0000
2	202	0.261	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.262	0.0000	0.0000	0.0000	0.0000
3	203	0.261	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.263	0.0000	0.0000	0.0000	0.0000
4	204	0.262	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.263	0.0000	0.0000	0.0000	0.0000
5	205	0.262	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.263	0.0000	0.0000	0.0000	0.0000

REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000

REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000
 REL LENGTH(METER) 3.1767E 06
 REL LENGTH(FT) 3.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
CHAN	T/C	TA(DEC K)	TW(DEC R)	Q(W/GM2)	G(BTU/FT2-SEC)	CS(W/GM2)	LS(BTU/FT2-SEC)	ST(C.907)	ST(O.874)	TIME(SEC)
1	201	314.2	565.5	-0.000	-0.000	13.125	11.505	-0.0000E-39	-0.0000E-39	0.187
2	202	315.3	567.5	-0.000	-0.000	13.107	11.549	-0.0000E-39	-0.0000E-39	0.758
3	203	316.0	568.9	-0.000	-0.000	13.095	11.539	-0.0000E-39	-0.0000E-39	0.423
4	204	316.5	569.6	-0.000	-0.000	13.089	11.533	-0.0000E-39	-0.0000E-39	0.304
5	205	316.7	570.0	-0.000	-0.000	13.085	11.530	-0.0000E-39	-0.0000E-39	-0.335
6	206	317.3	571.1	-0.000	-0.000	13.076	11.522	-0.0000E-39	-0.0000E-39	-1.125
7	207	317.4	571.3	0.000	0.000	13.074	11.520	0.0000E-39	0.0000E-39	-0.356
8	208	318.2	572.8	0.000	0.000	13.061	11.509	0.0000E-39	0.0000E-39	-0.164
9	209	318.4	573.2	0.000	0.000	13.058	11.506	0.0000E-39	0.0000E-39	-0.123
10	210	318.2	572.7	0.000	0.000	13.062	11.509	0.0000E-39	0.0000E-39	-0.182

TEST NO. 158
RUN NO. 38

HAW/HT 1.200
RSINETER) 0.2048
RS(FT) 1.0000

HAW/HT 1.200
RS(FT) 1.0000

RSINETER) 0.2048
RS(FT) 1.0000

HAW/HT 1.200
RSINETER) 0.2048
RS(FT) 1.0000

HAW/HT 1.200
RSINETER) 0.2048
RS(FT) 1.0000

HAW/HT 1.200
RSINETER) 0.2048
RS(FT) 1.0000

HAW/HT 1.200
RSINETER) 0.2048
RS(FT) 1.0000

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8939E-01 (SLUSS/FT2-SEC)

PRCBE NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 3.3151E C6 3.0314E C6 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000
 RE/METER REL LENGTH(METER) PT(ATM) H/HS(10.907) H/HS(0.874) H/HS(1.000) H/HS(0.907) H/HS(0.874)
 5.10 3.3151E C6 3.0314E C6 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000
 RE/FEET REL LENGTH(FT) PI(PSI) T(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 3.3151E C6 3.0314E C6 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000
 RE/FEET REL LENGTH(FT) PI(PSI) T(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 3.3151E C6 3.0314E C6 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000
 RE/FEET REL LENGTH(FT) PI(PSI) T(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 3.3151E C6 3.0314E C6 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000 166.11 1.0105E 06 3.0314E 06 3.0000
 RE/FEET REL LENGTH(FT) PI(PSI) T(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158

CHAN	T/C	W/HT	Q/QS	F/HS(1.000)	H/HS(10.907)	H/HS(0.874)	PI(PSI)	PT(ATM)	T(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.255	C.0785	0.0785	0.0896	0.0944	0.0944	0.0944	36	236	0.253	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
12	302	0.255	C.0766	0.0766	0.0876	0.0922	0.0922	0.0922	37	237	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
13	303	0.255	C.0708	0.0708	0.0809	0.0852	0.0852	0.0852	38	238	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
14	304	0.255	C.0666	0.0666	0.0761	0.0801	0.0801	0.0801	39	239	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
15	305	0.255	C.0666	0.0666	0.0761	0.0802	0.0802	0.0802	40	240	0.255	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
16	306	0.255	C.0599	0.0599	0.0584	0.0721	0.0721	0.0721	41	241	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
17	307	0.255	C.0583	0.0583	0.0624	0.0702	0.0702	0.0702	42	242	0.255	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
18	308	0.254	C.0546	0.0546	0.0624	0.0657	0.0657	0.0657	43	243	0.256	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
19	309	0.255	C.0544	0.0544	0.0624	0.0654	0.0654	0.0654	44	244	0.256	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
20	310	0.254	C.0555	0.0555	0.0634	0.0667	0.0667	0.0667	45	245	0.255	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
21	311	0.255	C.0510	0.0510	0.0583	0.0614	0.0614	0.0614	46	246	0.255	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
22	312	0.255	C.0522	0.0522	0.0596	0.0628	0.0628	0.0628	47	247	0.255	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
23	313	0.255	C.0471	0.0471	0.0539	0.0567	0.0567	0.0567	48	248	0.255	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
24	314	0.254	C.0382	0.0382	0.0437	0.0460	0.0460	0.0460	49	249	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
25	315	0.254	C.0448	0.0448	0.0512	0.0532	0.0532	0.0532	50	250	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
26	316	0.255	C.0511	0.0511	0.0534	0.0615	0.0615	0.0615	51	261	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
27	317	0.255	C.0500	0.0500	0.0572	0.0602	0.0602	0.0602	52	262	0.251	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
28	318	0.257	C.0485	0.0485	0.0555	0.0585	0.0585	0.0585	53	263	0.251	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
29	315	0.254	C.0508	0.0508	0.0581	0.0612	0.0612	0.0612	54	264	0.251	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
30	221	0.251	C.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	55	265	0.251	0.0000	0.0000	0.0000	0.0000	0.0000
31	221	0.251	C.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	56	265	0.251	0.0000	0.0000	0.0000	0.0000	0.0000
32	232	0.251	C.0000	0.0000	0.0000	0.0000	0.0000	0.0000	57	266	0.251	0.0000	0.0000	0.0000	0.0000	0.0000
33	233	0.252	C.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	58	267	0.252	0.0000	0.0000	0.0000	0.0000	0.0000
34	234	0.252	C.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	59	268	0.253	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
35	235	0.253	C.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	60	269	0.254	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

Table with columns: QMACH, T/C, T/IDEG C6, T/IDEG K, REL LENGTH, REL LENGTH, Q(W/CM2), G(S/FT2-SEC), CS(W/CM2), GS(T/FT2-SEC), S(T/0.874), S(T/0.907), TIME(SEC). Rows 11-60.

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.833E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

*** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 36

HAW/HT 1.000
HAW/HT 1.000

RS(METL) 0.3248
RS(FT) 1.0000

TI(UG K) 1.2818E 06
TI(SEC M) 551.20

PT(ATM) 11.30
PT(PSI) 166.11

REL LENGTH(C6) 3.000

CHAN	T/C	H/FT	W/LS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/HT	G/W	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
61	271	0.246	C.CCCC	C.CCCC	0.0000	0.0000	69	274	0.250	-0.0000	-0.0000	-0.0000	-0.0000
62	272	0.247	C.CCCC	C.CCCC	0.0000	0.0000	70	280	0.251	-0.0000	-0.0000	-0.0000	-0.0000
63	273	0.247	C.CCCC	C.CCCC	0.0000	0.0000	71	281	0.252	-0.0000	-0.0000	-0.0000	-0.0000
64	274	0.247	C.CCCC	C.CCCC	0.0000	0.0000	72	282	0.253	-0.0000	-0.0000	-0.0000	-0.0000
65	275	0.247	C.CCCC	C.CCCC	0.0000	0.0000	73	283	0.253	-0.0000	-0.0000	-0.0000	-0.0000
66	276	0.247	-C.CCCC	-C.CCCC	-0.0000	-0.0000	74	284	0.254	-0.0000	-0.0000	-0.0000	-0.0000
67	277	0.248	-C.CCCC	-C.CCCC	-0.0000	-0.0000	75	285	0.255	-0.0000	-0.0000	-0.0000	-0.0000
68	278	0.249	-C.CCCC	-C.CCCC	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL LENGTH	PT (ATH)	TT (DEG K)	CS (BTU/FT ² -SEC)	CS (W/CM ²)	CS (BTU/FT ² -SEC)	ST (G.907)	ST (G.874)	TIME (SEC)
5.10	3.1944E C6	2.9246E C6	REL LENGTH (METER)	PT (ATH)	TT (DEG K)	TT (Joule/KG)	RS (METER)	FAW/HT	TEST NO. 158	RUN NC. 36
MACH	RE/FT	REL LENGTH (FT)	PT (PSI)	TT (DEG R)	HT (BTU/LBM)	RS (FT)	HAW/HT	1.000		
5.10	9.7488E C5	2.9246E 06	166.11	2168.4	351.20	1.0000	1.000			
CPAN	T/C	TW (DEG K)	TW (DEG R)	U (W/CM ²)	G (BTU/FT ² -SFC)	CS (W/CM ²)	CS (BTU/FT ² -SEC)	ST (G.907)	ST (G.874)	TIME (SEC)
61	271	314.5	565.1	0.000	0.000	14.082	12.408	0.0000E-39	0.0000E-39	1.044
62	272	314.7	566.4	0.000	0.000	14.679	12.405	0.0000E-39	0.0000E-39	0.897
63	273	314.5	566.7	0.000	0.000	14.976	12.403	0.0000E-39	0.0000E-39	-1.338
64	274	314.6	566.3	0.000	0.000	14.080	12.406	0.0000E-39	0.0000E-39	0.535
65	275	315.1	567.1	0.000	0.000	14.073	12.400	0.0000E-39	0.0000E-39	-1.954
66	276	315.8	568.5	-0.000	-0.000	14.060	12.369	-0.0000E-39	-0.0000E-39	6.302
67	277	316.4	569.6	-0.000	-0.000	14.051	12.381	-0.0000E-39	-0.0000E-39	-2.459
68	278	317.4	571.4	-0.000	-0.000	14.035	12.367	-0.0000E-39	-0.0000E-39	0.070
69	279	317.6	573.4	-0.000	-0.000	14.017	12.351	-0.0000E-39	-0.0000E-39	0.286
70	280	320.2	576.3	-0.000	-0.000	13.992	12.329	-0.0000E-39	-0.0000E-39	0.066
71	281	321.4	578.6	-0.000	-0.000	13.975	12.312	-0.0000E-39	-0.0000E-39	-0.704
72	282	322.3	580.1	-0.000	-0.000	13.959	12.300	-0.0000E-39	-0.0000E-39	-0.515
73	283	323.4	582.1	-0.000	-0.000	13.942	12.284	-0.0000E-39	-0.0000E-39	0.025
74	284	324.7	584.4	-0.000	-0.000	13.922	12.267	-0.0000E-39	-0.0000E-39	-0.188
75	285	325.5	586.6	-0.000	-0.000	13.902	12.250	-0.0000E-39	-0.0000E-39	-0.102

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7874E-01 (SLUGS/FT²-SEC)

PROC NO. = 3

PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 36

HAM/HT 1.000
 HAM/HT 1.000
 CONSTANT SET 30Z

RS(METER) 0.3048
 RS(FT) 1.0000

HUFFETT FIELD CALIF. ***
 HT(JOULE/KG) 1-2150E 06
 HT(FTU/LBM) 522.48

RESEARCH CENTER
 TT(DEG K) 1147.5
 TT(DEG R) 2065.5

AMES RESEARCH CENTER
 PT(ATM) 11.30
 PT(PSI) 166.11

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 LENGTH(METER) 0.914
 LENGTH(FT) 3.000

REL 3.1767E 06
 REL 3.1767E 06

MACH 5.10
 MACH 5.10

REL 3.1767E 06
 REL 3.1767E 06

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(10.907)	H/HS(10.874)	CHAN	T/C	HM/HT	C/Cs	F/HS(1.000)	F/HS(10.907)	H/HS(10.874)
1	201	0.260	0.0008	0.0008	0.0009	0.0010	6	206	0.262	0.0297	0.0340	0.0359	0.0450
2	202	0.261	0.0059	0.0067	0.0071	0.0071	7	207	0.262	0.0373	0.0427	0.0442	0.0643
3	203	0.261	0.0242	0.0277	0.0292	0.0292	8	208	0.263	0.0532	0.0609	0.0610	0.0582
4	204	0.262	0.0262	0.0262	0.0316	0.0316	9	209	0.263	0.0533	0.0552	0.0552	
5	205	0.262	0.0282	0.0282	0.0323	0.0340	10	210	0.263	0.0482	0.0482	0.0482	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***																							
CHAN	T/C	TH(DEG K)	TM(DEG R)	Q1W/CM2	Q1BTU/FT2-SEC	GS(W/CM2)	CS(BTU/FT2-SEC)	SI(0.907)	ST(0.874)	TIME(SEC)	MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TT(CEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	RS(FT)	HT(BTU/LBM)	MAW/HT	RUN NO.
1	201	314.2	565.5	0.011	0.010	13.125	11.565	3.0267E-06	3.1892E-06	6.587	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
2	202	315.3	567.5	0.077	0.068	13.107	11.549	2.1489E-05	2.2646E-05	0.422	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
3	203	316.0	568.9	0.317	0.279	13.095	11.539	8.8844E-05	9.3631E-05	0.004	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
4	204	316.5	569.6	0.347	0.302	13.089	11.530	9.6308E-05	1.0150E-04	-0.036	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
5	205	316.7	570.0	0.369	0.325	13.085	11.530	1.0368E-04	1.0927E-04	-1.127	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
6	206	317.3	571.1	0.389	0.343	13.076	11.522	1.0922E-04	1.1511E-04	-0.657	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
7	207	317.4	571.3	0.488	0.430	13.074	11.520	1.3700E-04	1.4439E-04	-0.165	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
8	208	318.2	572.8	0.695	0.612	13.061	11.509	1.9545E-04	2.0600E-04	-0.124	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
9	209	318.4	573.2	0.696	0.613	13.058	11.506	1.9588E-04	2.0646E-04	-0.183	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	
10	210	318.2	572.7	0.630	0.555	13.062	11.509	1.7714E-04	1.8670E-04	-0.183	5.10	3.4741E 06	0.914	11.30	1147.5	1.2150E 06	0.3048	1.000	358	0.3048	1.000	36	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8939E-01 (SLUGS/FT2-SEC)

PROBE NC. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 3.3151E 06 3.0314E 06 0.914 11.30 1179.6 1.2524E 06 0.3048 1.000 0.3048 1.000
 MACH 5.10 1.0105E 06 3.0314E 06 3.000 166.11 2123.3 536.58 1.0000 1.0000 1.0000 1.0000

RS(METER) 0.3048
 HAM/HT 1.000
 RS(EI) 1.0000
 HAM/HT 1.0000

TEST NO. 158
 RUN NO. 36

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	I/C	HW/HT	G/GS	F/HS(1.000)	F/HS(0.907)	H/HS(0.874)
11	301	0.255	-0.0000	-0.0000	-0.0000	-0.0000	36	236	0.253	0.0023	0.0023	0.0027	0.0028
12	302	0.255	-0.0000	-0.0000	-0.0000	-0.0000	37	237	0.254	0.0068	0.0068	0.0077	0.0081
13	303	0.255	-0.0000	-0.0000	-0.0000	-0.0000	38	238	0.254	0.0268	0.0268	0.0307	0.0123
14	304	0.255	-0.0000	-0.0000	-0.0000	-0.0000	39	239	0.254	0.0349	0.0349	0.0398	0.0419
15	305	0.255	-0.0000	-0.0000	-0.0000	-0.0000	40	240	0.255	0.0424	0.0424	0.0485	0.0511
16	306	0.255	-0.0000	-0.0000	-0.0000	-0.0000	41	241	0.254	0.0520	0.0520	0.0594	0.0626
17	307	0.255	-0.0000	-0.0000	-0.0000	-0.0000	42	242	0.255	0.0589	0.0589	0.0672	0.0708
18	308	0.254	-0.0000	-0.0000	-0.0000	-0.0000	43	243	0.256	0.0575	0.0575	0.0657	0.0692
19	309	0.255	-0.0000	-0.0000	-0.0000	-0.0000	44	244	0.254	0.0537	0.0537	0.0613	0.0646
20	310	0.254	-0.0000	-0.0000	-0.0000	-0.0000	45	245	0.255	0.0561	0.0561	0.0641	0.0675
21	311	0.255	-0.0000	-0.0000	-0.0000	-0.0000	46	246	0.255	0.0478	0.0478	0.0546	0.0575
22	312	0.255	-0.0000	-0.0000	-0.0000	-0.0000	47	247	0.255	0.0601	0.0601	0.0687	0.0723
23	313	0.255	-0.0000	-0.0000	-0.0000	-0.0000	48	248	0.255	0.0400	0.0400	0.0457	0.0482
24	314	0.254	-0.0000	-0.0000	-0.0000	-0.0000	49	249	0.255	0.0587	0.0587	0.0670	0.0706
25	315	0.254	-0.0000	-0.0000	-0.0000	-0.0000	50	250	0.254	0.0656	0.0656	0.0745	0.0780
26	316	0.255	-0.0000	-0.0000	-0.0000	-0.0000	51	261	0.254	0.0161	0.0161	0.0184	0.0194
27	317	0.255	-0.0000	-0.0000	-0.0000	-0.0000	52	262	0.251	0.0004	0.0004	0.0005	0.0005
28	318	0.257	-0.0000	-0.0000	-0.0000	-0.0000	53	263	0.251	0.0007	0.0007	0.0008	0.0008
29	319	0.254	-0.0000	-0.0000	-0.0000	-0.0000	54	264	0.251	0.0007	0.0007	0.0008	0.0008
30	231	0.251	0.0003	0.0003	0.0004	0.0004	55	265	0.251	0.0016	0.0016	0.0019	0.0020
31	232	0.251	0.0016	0.0016	0.0019	0.0019	56	266	0.251	0.0316	0.0316	0.0360	0.0379
32	233	0.252	0.0004	0.0004	0.0005	0.0005	57	267	0.252	0.0012	0.0012	0.0014	0.0014
33	234	0.252	0.0009	0.0009	0.0011	0.0011	58	268	0.253	0.0034	0.0034	0.0039	0.0041
34	235	0.253	0.0013	0.0013	0.0015	0.0015	59	269	0.254	0.0204	0.0204	0.0234	0.0246
35	235	0.253	0.0013	0.0013	0.0015	0.0015	60	269	0.254	0.0204	0.0204	0.0234	0.0246

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER GOFFETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.10 3.0314E 06 3.0314E 06 0.914 11.30 2179.6 1.2524E 06 0.3043 1.000 1.000
 MACH 5.10 1.0105E 06 3.0314E 06 166.11 2123.3 538.58 1.0000

CHAN	T/C	IN/DEG KJ	Y(MID/SEC)	Q(M/CM2)	G(BTU/FT2-SEC)	Q5(M/CM2)	Q5(BTU/FT2-SEC)	ST10(907)	ST10(SEC)	TIME(SEC)
11	301	318.2	572.8	-0.000	-0.000	13.602	11.985	-0.000E-39	-0.000E-39	0.301
12	302	318.6	573.5	-0.000	-0.000	13.595	11.979	-0.000E-39	-0.000E-39	0.304
13	303	317.5	571.6	-0.000	-0.000	13.612	11.994	-0.000E-39	-0.000E-39	0.250
14	304	318.5	573.3	-0.000	-0.000	13.597	11.981	-0.000E-39	-0.000E-39	0.267
15	305	317.6	571.8	-0.000	-0.000	13.610	11.993	-0.000E-39	-0.000E-39	0.216
16	306	317.5	571.5	-0.000	-0.000	13.612	11.994	-0.000E-39	-0.000E-39	0.165
17	307	318.2	572.7	-0.000	-0.000	11.985	11.985	-0.000E-39	-0.000E-39	0.142
18	308	316.9	570.3	-0.000	-0.000	12.623	12.603	-0.000E-55	-0.000E-39	0.117
19	308	317.3	571.4	-0.000	-0.000	13.613	11.993	-0.000E-39	-0.000E-39	0.124
20	310	317.0	570.6	-0.000	-0.000	13.621	12.002	-0.000E-39	-0.000E-39	0.127
21	311	317.5	571.5	-0.000	-0.000	13.613	11.995	-0.000E-39	-0.000E-39	0.010
22	312	318.4	573.1	-0.000	-0.000	13.588	11.982	-0.000E-39	-0.000E-39	0.030
23	313	317.4	571.3	-0.000	-0.000	13.615	11.996	-0.000E-39	-0.000E-39	0.010
24	314	317.2	571.2	-0.000	-0.000	13.615	11.997	-0.000E-39	-0.000E-39	0.004
25	315	317.2	571.0	-0.000	-0.000	13.617	11.998	-0.000E-39	-0.000E-39	0.011
26	316	317.5	571.5	-0.000	-0.000	13.613	11.995	-0.000E-39	-0.000E-39	0.035
27	317	317.8	572.0	-0.000	-0.000	13.608	11.991	-0.000E-39	-0.000E-39	0.038
28	318	320.2	576.3	-0.000	-0.000	13.570	11.957	-0.000E-39	-0.000E-39	0.427
29	319	317.1	570.7	-0.000	-0.000	13.619	12.000	-0.000E-39	-0.000E-39	0.059
30	319	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000E-39	0.000E-39	0.000
31	281	313.1	563.4	-0.004	-0.004	13.682	12.054	1.1887E-06	1.2317E-06	3.215
32	282	318.6	564.4	-0.021	-0.019	13.674	12.049	-5.8937E-06	-6.1640E-06	2.865
33	283	313.6	565.0	0.065	0.065	13.649	12.044	1.4973E-06	1.5767E-06	0.663
34	284	318.4	564.3	0.013	0.011	13.658	12.035	3.4869E-06	3.6720E-06	-0.035
35	285	314.9	566.9	0.017	0.015	13.653	12.030	4.7828E-06	5.0157E-06	-0.100
36	286	315.7	568.2	0.032	0.028	13.641	12.020	8.6588E-06	9.1607E-06	0.148
37	287	316.4	568.8	0.032	0.032	13.627	12.007	5.2888E-06	2.6830E-05	0.545
38	288	317.1	571.1	0.045	0.042	13.616	11.998	1.0047E-04	1.0582E-04	0.452
39	289	316.9	570.5	0.075	0.076	13.621	12.002	1.9050E-04	1.3745E-04	0.065
40	290	318.1	572.3	0.077	0.068	13.603	11.984	1.5887E-04	1.6734E-04	-0.169
41	291	318.7	572.8	0.081	0.076	13.624	12.005	1.9481E-04	2.0517E-04	0.077
42	292	317.9	570.2	0.081	0.080	13.606	11.989	2.2041E-04	2.3216E-04	-0.077
43	293	318.7	573.4	0.082	0.083	13.594	11.978	2.1300E-04	2.2479E-04	0.162
44	294	318.8	573.8	0.079	0.079	13.593	11.977	2.0908E-04	2.1176E-04	0.130
45	295	318.2	572.7	0.073	0.072	13.602	11.985	2.1000E-04	2.1288E-04	0.117
46	296	317.5	572.2	0.050	0.053	13.604	11.989	1.7899E-04	1.8853E-04	0.127
47	297	318.0	572.5	0.047	0.050	13.604	11.987	2.2502E-04	2.3701E-04	0.134
48	298	317.6	571.6	0.045	0.046	13.611	11.993	1.4989E-04	1.5788E-04	0.085
49	299	317.5	571.5	0.039	0.039	13.612	11.984	2.1875E-04	2.3148E-04	0.172
50	300	317.1	570.8	0.033	0.033	13.618	12.000	2.4349E-04	2.5837E-04	0.215
51	261	317.0	570.5	0.220	0.193	13.621	12.002	6.0362E-05	6.3575E-05	0.489
52	262	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000E-05	0.000E-05	0.000
53	263	313.5	564.3	-0.006	-0.005	13.676	12.050	-1.6194E-06	-1.7052E-06	-0.175
54	264	312.7	562.8	0.009	0.008	13.686	12.061	2.5798E-06	2.7164E-06	2.053
55	265	-0.0	-0.0	0.000	0.000	0.000	0.000	0.000E-06	0.000E-06	0.000
56	265	312.6	562.6	-0.022	-0.020	13.690	12.062	-6.0758E-06	-6.3975E-06	0.597
57	266	312.5	562.6	-0.032	-0.031	13.690	12.063	-1.1815E-06	-1.2440E-06	1.482
58	267	314.1	565.4	-0.014	-0.014	13.664	12.041	-4.4841E-06	-4.7219E-06	1.455
59	268	315.4	568.1	0.047	0.041	13.642	12.020	1.2870E-05	1.3554E-05	0.576
60	269	316.5	569.7	0.079	0.075	13.628	12.008	7.6554E-05	8.0628E-05	0.361

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8333E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

MACH		REL		Q/QS		H/HS(I.000)		H/HS(O.907)		H/HS(C.874)		H/HS(I.C00)		F/HS(O.907)		H/HS(C.874)	
5.10	3.1984E 06	2.9246E 06	0.514	-0.0013	-0.0015	-0.0016	-0.0019	-0.0020	69	279	0.250	0.0035	0.0035	0.0039	0.0042	0.0042	0.0042
5.10	9.7488E 05	2.9246E 06	3.000	-0.0002	-0.0009	-0.0008	-0.0003	-0.0001	70	280	0.251	0.0207	0.0207	0.0236	0.0249	0.0249	0.0249
				-0.0008	-0.0008	-0.0008	-0.0003	-0.0001	71	281	0.252	0.0292	0.0292	0.0334	0.0352	0.0352	0.0352
				-0.0003	-0.0003	-0.0003	-0.0001	-0.0001	72	282	0.253	0.0436	0.0436	0.0497	0.0524	0.0524	0.0524
				0.0001	0.0001	0.0001	0.0001	0.0001	73	283	0.253	0.0581	0.0581	0.0664	0.0699	0.0699	0.0699
				0.0001	0.0001	0.0001	0.0001	0.0001	74	284	0.254	0.0449	0.0449	0.0499	0.0540	0.0540	0.0540
				0.0008	0.0008	0.0008	0.0001	0.0001	75	285	0.255	0.0487	0.0487	0.0487	0.0513	0.0513	0.0513
				0.0008	0.0008	0.0008	0.0008	0.0009									
CHAN	I/C	HW/HT	Q/QS	H/HS(I.000)	H/HS(O.907)	H/HS(C.874)	CHAN	T/C	HW/HT	C/CS	H/HS(I.C00)	F/HS(O.907)	H/HS(C.874)				
61	271	0.246	-0.0016	-0.0016	-0.0019	-0.0020	69	279	0.250	0.0035	0.0035	0.0039	0.0042				
62	272	0.247	-0.0013	-0.0013	-0.0015	-0.0015	70	280	0.251	0.0207	0.0207	0.0236	0.0249				
63	273	0.247	-0.0002	-0.0002	-0.0002	-0.0002	71	281	0.252	0.0292	0.0292	0.0334	0.0352				
64	274	0.247	-0.0008	-0.0008	-0.0009	-0.0009	72	282	0.253	0.0436	0.0436	0.0497	0.0524				
65	275	0.247	-0.0003	-0.0003	-0.0003	-0.0003	73	283	0.253	0.0581	0.0581	0.0664	0.0699				
66	276	0.247	0.0001	0.0001	0.0001	0.0001	74	284	0.254	0.0449	0.0449	0.0499	0.0540				
67	277	0.248	0.0001	0.0001	0.0001	0.0001	75	285	0.255	0.0487	0.0487	0.0487	0.0513				
68	278	0.249	0.0008	0.0008	0.0008	0.0009											

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. PRELIMINARY DATA *** TEST NO. 158

RE/METER REL LENGTH(METER) PI(ATM) TT(DEG K) HT(JULE/KG) RS(METER) HAM/HT

5.10 3.1984E 06 2.9246E 06 0.514 11.30 1204.7 1.2818E 06 0.3048 1.000

RE/FT REL LENGTH(FT) PI(FSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAM/HT

5.10 9.7488E 05 2.9246E 06 3.000 166.11 2168.4 551.20 1.0000 1.000

CHAN I/C HW/HT Q/QS H/HS(I.000) H/HS(O.907) H/HS(C.874) CHAN T/C HW/HT C/CS H/HS(I.C00) F/HS(O.907) H/HS(C.874)

61 271 0.246 -0.0016 -0.0016 -0.0019 -0.0020 69 279 0.250 0.0035 0.0035 0.0039 0.0042

62 272 0.247 -0.0013 -0.0013 -0.0015 -0.0015 70 280 0.251 0.0207 0.0207 0.0236 0.0249

63 273 0.247 -0.0002 -0.0002 -0.0002 -0.0002 71 281 0.252 0.0292 0.0292 0.0334 0.0352

64 274 0.247 -0.0008 -0.0008 -0.0009 -0.0009 72 282 0.253 0.0436 0.0436 0.0497 0.0524

65 275 0.247 -0.0003 -0.0003 -0.0003 -0.0003 73 283 0.253 0.0581 0.0581 0.0664 0.0699

66 276 0.247 0.0001 0.0001 0.0001 0.0001 74 284 0.254 0.0449 0.0449 0.0499 0.0540

67 277 0.248 0.0001 0.0001 0.0001 0.0001 75 285 0.255 0.0487 0.0487 0.0487 0.0513

68 278 0.249 0.0008 0.0008 0.0008 0.0009

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***													
MACH		RE/METER	REL	TH(DEG K)	TM(DEG R)	C(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	QS(BTU/FT2-SEC)	STIO(907)	STIO(874)	TIME(SEC)	TEST NO.
5.10		3.1984E 06	2.9246E 06	314.5	566.1	-0.023	-0.020	14.082	-6.1872E-06	-3.5126E-06	1.044	158	
5.10		3.1984E 06	2.9246E 06	314.7	566.4	-0.018	-0.016	14.079	-4.9610E-06	-5.1528E-06	0.897	36	
5.10		3.1984E 06	2.9246E 06	314.9	566.7	-0.003	-0.003	14.074	-7.6623E-07	-8.0656E-07	-1.338		
5.10		3.1984E 06	2.9246E 06	314.6	566.3	-0.011	-0.009	14.090	-2.8765E-06	-3.0278E-06	0.535		
5.10		3.1984E 06	2.9246E 06	315.1	567.1	-0.004	-0.004	14.073	-1.0987E-06	-1.1565E-06	-1.954		
5.10		3.1984E 06	2.9246E 06	315.8	568.5	0.001	0.001	14.060	2.5328E-07	2.6662E-07	6.303		
5.10		3.1984E 06	2.9246E 06	316.4	579.6	0.001	0.001	14.051	2.6441E-07	2.7835E-07	-2.459		
5.10		3.1984E 06	2.9246E 06	317.4	571.4	0.011	0.010	14.035	2.9224E-06	3.0766E-06	-0.070		
5.10		3.1984E 06	2.9246E 06	318.6	573.4	0.044	0.043	14.017	1.3140E-05	1.3834E-05	0.284		
5.10		3.1984E 06	2.9246E 06	320.2	576.3	0.289	0.255	13.992	7.8611E-05	8.2774E-05	0.065		
5.10		3.1984E 06	2.9246E 06	321.4	578.6	0.409	0.360	13.973	1.1118E-04	1.1705E-04	-0.705		
5.10		3.1984E 06	2.9246E 06	322.3	580.1	0.608	0.536	13.959	1.6559E-04	1.7438E-04	-0.516		
5.10		3.1984E 06	2.9246E 06	323.4	582.1	0.810	0.714	13.942	2.2091E-04	2.3266E-04	0.025		
5.10		3.1984E 06	2.9246E 06	324.7	584.4	0.625	0.550	13.922	1.7064E-04	1.7973E-04	-0.189		
5.10		3.1984E 06	2.9246E 06	325.9	586.6	0.677	0.596	13.902	1.8509E-04	1.9496E-04	-0.102		

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7874E-01 (SLUGS/FT2-SEC)

PROBE NC. = 3

*** PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. TEST NG. 158
 MACH 5.10 REL H/WHT 4.00000 0.00000 H/WHT 1.00000 H/WHT 1.00000
 MACH 5.10 REL H/WHT 4.00000 0.00000 H/WHT 1.00000 H/WHT 1.00000
 MACH 5.10 REL H/WHT 4.00000 0.00000 H/WHT 1.00000 H/WHT 1.00000
 MACH 5.10 REL H/WHT 4.00000 0.00000 H/WHT 1.00000 H/WHT 1.00000

REL LENGTH(FT) 3.000
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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158 RUN NO. 37

CHAN	T/C	TW(DEG K)	TW(DEG R)	W(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	CS(BTU/FT2-SEC)	ST(G/FT2-SEC)	ST(G/FT2-SEC)	ST(G/FT2-SEC)	ST(G/FT2-SEC)	TIME(SEC)
1	201	217.4	571.3	-0.000	-0.000	14.600	12.864	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.944
2	202	218.5	574.1	-0.000	-0.000	14.572	12.840	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.842
3	203	320.C	576.0	-0.000	-0.000	14.554	12.824	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.635
4	204	320.A	577.0	-0.000	-0.000	14.543	12.815	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.423
5	205	320.B	577.5	-0.000	-0.000	14.539	12.811	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.004
6	206	321.6	578.9	-0.000	-0.000	14.525	12.799	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.118
7	207	321.7	579.0	0.000	0.000	14.524	12.790	0.0000E-39	0.0000E-39	0.0000E-39	0.0000E-39	0.003
8	208	322.6	580.7	0.000	0.000	14.508	12.783	0.0000E-39	0.0000E-39	0.0000E-39	0.0000E-39	0.285
9	209	322.8	581.1	0.000	0.000	14.504	12.780	0.0000E-39	0.0000E-39	0.0000E-39	0.0000E-39	0.310
10	210	322.4	580.3	0.000	0.000	14.512	12.787	0.0000E-39	0.0000E-39	0.0000E-39	0.0000E-39	0.318

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6549E-01 (SLUGS/FT2-SEC)

PROBE G. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 37

RS(METER) 0.2048
HAM/HT 1.000

RS(FT) 1.0000
HAM/HT 1.000

PT(ATM) 14.23
Y(DEC.R) 2111.2

REL LENGTH(C6) 3.8560E 06
REL LENGTH(FT) 3.000

RE/FT 1.2853E C6
REL LENGTH(C6) 3.8560E 06

CHAN	T/C	FW/FT	Q/Q5	H/HS(1.000)	F/HS(0.907)	H/HS(0.874)	CRASH	T/C	HW/HT	Q/Q5	H/HS(1.000)	F/HS(0.907)	H/HS(0.874)
11	301	C.260	C.0660	0.0660	0.0755	0.0796	36	236	0.258	-0.0000	-0.0000	-0.0000	-0.0000
12	302	C.260	C.0641	0.0641	0.0733	0.0772	37	237	0.259	-0.0000	-0.0000	-0.0000	-0.0000
13	303	C.259	C.0616	0.0616	0.0704	0.0742	38	238	0.260	-0.0000	-0.0000	-0.0000	-0.0000
14	304	C.258	C.0581	0.0581	0.0665	0.0700	39	239	0.259	-0.0000	-0.0000	-0.0000	-0.0000
15	305	C.260	C.0594	0.0594	0.0679	0.0716	40	240	0.261	-0.0000	-0.0000	-0.0000	-0.0000
16	306	C.259	C.0536	0.0536	0.0613	0.0746	41	241	0.259	-0.0000	-0.0000	-0.0000	-0.0000
17	307	C.260	C.0533	0.0533	0.0610	0.0642	42	242	0.261	-0.0000	-0.0000	-0.0000	-0.0000
18	308	C.259	C.0503	0.0503	0.0575	0.0606	43	243	0.261	-0.0000	-0.0000	-0.0000	-0.0000
19	309	C.259	C.0506	0.0506	0.0579	0.0610	44	244	0.261	-0.0000	-0.0000	-0.0000	-0.0000
20	310	C.259	C.0525	0.0525	0.0601	0.0633	45	245	0.260	-0.0000	-0.0000	-0.0000	-0.0000
21	311	C.255	C.0496	0.0496	0.0567	0.0598	46	246	0.260	-0.0000	-0.0000	-0.0000	-0.0000
22	312	C.260	C.0517	0.0517	0.0592	0.0624	47	247	0.260	-0.0000	-0.0000	-0.0000	-0.0000
23	313	C.259	C.0491	0.0491	0.0562	0.0592	48	248	0.259	-0.0000	-0.0000	-0.0000	-0.0000
24	14	C.259	C.0416	0.0416	0.0476	0.0501	49	249	0.259	-0.0000	-0.0000	-0.0000	-0.0000
25	15	C.259	C.0495	0.0495	0.0567	0.0597	50	250	0.259	-0.0000	-0.0000	-0.0000	-0.0000
26	16	C.259	C.0534	0.0534	0.0611	0.0643	51	261	0.259	-0.0000	-0.0000	-0.0000	-0.0000
27	317	C.259	C.0573	0.0573	0.0655	0.0691	52	262	0.258	-0.0000	-0.0000	-0.0000	-0.0000
28	318	C.261	C.0626	0.0626	0.0716	0.0755	53	263	0.256	-0.0000	-0.0000	-0.0000	-0.0000
29	319	C.255	C.0776	0.0776	0.0888	0.0935	54	264	0.255	-0.0000	-0.0000	-0.0000	-0.0000
30	231	C.255	C.0800	-0.0000	-0.0000	-0.0000	55	265	0.254	-0.0000	-0.0000	-0.0000	-0.0000
31	232	C.255	-0.0000	-0.0000	-0.0000	-0.0000	56	266	0.255	-0.0000	-0.0000	-0.0000	-0.0000
32	233	C.257	-0.0000	-0.0000	-0.0000	-0.0000	57	267	0.256	-0.0000	-0.0000	-0.0000	-0.0000
33	234	C.257	-0.0000	-0.0000	-0.0000	-0.0000	58	268	0.258	-0.0000	-0.0000	-0.0000	-0.0000
34	235	C.255	-0.0000	-0.0000	-0.0000	-0.0000	59	269	0.259	-0.0000	-0.0000	-0.0000	-0.0000
75							60						

MACH 5.10
 MACH 5.10
 MACH 5.10

MAT'IAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center Muffett Field Calif. *** PRELIMINARY DATA ***

CLAM	ISG	TM(DEG K)	TA(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	GS(W/CM2)	GS(BTU/FT2-SEC)	ST(0.874)	TIME(SEC)
11	361	322.2	579.9	0.995	0.876	15.069	13.277	2.1945E-04	0.224
12	362	322.8	581.0	0.985	0.850	15.058	13.268	2.2452E-04	0.225
13	363	323.3	578.5	0.929	0.819	15.290	13.290	2.1574E-04	0.173
14	364	322.6	580.7	0.875	0.771	15.061	13.270	2.0359E-04	0.183
15	365	321.6	578.9	0.896	0.789	15.079	13.286	2.0811E-04	0.152
16	366	321.5	578.8	0.809	0.713	15.080	13.287	1.8789E-04	0.101
17	307	322.3	580.2	0.803	0.708	15.066	13.275	1.8673E-04	0.091
18	368	320.8	577.5	0.759	0.669	15.093	13.299	1.7608E-04	0.069
19	369	321.2	578.7	0.783	0.673	15.080	13.287	1.6826E-04	0.073
20	310	320.5	577.6	0.793	0.699	15.091	13.298	1.8402E-04	0.085
21	311	321.3	578.3	0.748	0.659	15.084	13.291	1.7465E-04	0.002
22	312	322.5	580.4	0.772	0.687	15.064	13.273	1.7369E-04	0.033
23	313	321.2	578.1	0.741	0.653	15.086	13.293	1.8125E-04	0.033
24	314	321.1	578.0	0.627	0.553	15.087	13.294	1.326E-04	0.077
25	315	321.0	577.8	0.748	0.659	15.090	13.296	1.3624E-04	0.077
26	316	321.1	578.0	0.806	0.710	15.087	13.294	1.6488E-04	0.081
27	317	321.5	578.8	0.864	0.762	15.080	13.287	1.7748E-04	0.089
28	318	323.8	582.3	0.842	0.832	15.039	13.252	2.0075E-04	0.089
29	319	320.4	576.8	1.172	1.033	15.039	13.304	2.1941E-04	0.231
30		-0.0	-0.0	*****	*****	*****	*****	2.5804E-04	0.231
31	231	315.4	568.2	-0.000	-0.000	15.183	13.379	-0.0000E-39	0.889
32	232	316.4	569.3	-0.000	-0.000	15.170	13.367	-0.0000E-39	2.622
33	233	317.5	571.3	-0.000	-0.000	15.151	13.350	-0.0000E-39	1.321
34	234	318.6	573.3	-0.000	-0.000	15.132	13.333	-0.0000E-39	0.988
35	235	319.1	574.4	-0.000	-0.000	15.122	13.325	-0.0000E-39	0.681
36	236	320.2	576.3	-0.000	-0.000	15.104	13.308	-0.0000E-39	0.532
37	237	321.4	578.3	-0.000	-0.000	15.083	13.290	-0.0000E-39	0.486
38	238	322.3	580.1	-0.000	-0.000	15.067	13.276	-0.0000E-39	0.632
39	239	321.3	578.7	-0.000	-0.000	15.060	13.288	-0.0000E-39	0.440
40	240	321.3	581.9	-0.000	-0.000	15.048	13.280	-0.0000E-39	0.440
41	241	321.2	578.2	-0.000	-0.000	15.085	13.292	-0.0000E-39	0.294
42	242	322.5	581.2	-0.000	-0.000	15.056	13.267	-0.0000E-39	0.260
43	243	323.7	582.8	-0.000	-0.000	15.042	13.254	-0.0000E-39	0.315
44	244	323.6	582.5	-0.000	-0.000	15.043	13.255	-0.0000E-39	0.420
45	245	322.6	580.7	-0.000	-0.000	15.061	13.270	-0.0000E-39	0.415
46	246	322.0	579.7	-0.000	-0.000	15.071	13.279	-0.0000E-39	0.412
47	247	322.2	580.0	-0.000	-0.000	15.067	13.276	-0.0000E-39	0.439
48	248	-0.0	-0.0	*****	*****	*****	*****	-0.0000E-39	0.462
49	249	321.5	578.8	-0.000	-0.000	15.080	13.287	-0.0000E-39	0.000
50	250	320.8	577.4	-0.000	-0.000	15.093	13.299	-0.0000E-39	0.433
51	261	321.4	578.4	-0.000	-0.000	15.083	13.290	-0.0000E-39	0.705
52	262	-0.0	-0.0	*****	*****	*****	*****	-0.0000E-39	0.624
53	263	319.7	570.1	-0.000	-0.000	15.164	13.362	-0.0000E-39	0.000
54	264	315.7	568.2	-0.000	-0.000	15.182	13.378	-0.0000E-39	0.000
55		-0.0	-0.0	*****	*****	*****	*****	-0.0000E-39	0.000
56	265	313.1	567.2	-0.000	-0.000	15.193	13.387	-0.0000E-39	2.515
57	266	316.0	568.8	-0.000	-0.000	15.177	13.373	-0.0000E-39	1.644
58	267	317.5	571.5	-0.000	-0.000	15.150	13.343	-0.0000E-39	1.164
59	268	319.4	575.0	-0.000	-0.000	15.117	13.320	-0.0000E-39	0.865
60	269	320.4	576.8	-0.000	-0.000	15.099	13.304	-0.0000E-39	0.635

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.5849E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MURFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 37

RS(METER) 0.3048
HAM/HT 1.000
RS(FT) 1.000
HAM/HT 1.000

TI(CEG K) 1200.5
TI(CEG R) 1160.8
HT(BTU/LBP) 549.07

PT(PSI) 14.23
PT(PSI) 209.24

REL LENGTH(METER) 3.7063E 06
REL LENGTH(FT) 3.000

REL LENGTH(METER) 3.7063E 06
REL LENGTH(FT) 3.000

CHAN	T/C	H/W/FT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.907)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
61	271	0.250	-0.0000	-0.0000	-0.0000	69	279	0.255	-0.0000
62	272	0.250	0.0000	0.0000	0.0000	70	280	0.257	-0.0000
63	273	0.250	-0.0000	-0.0000	-0.0000	71	281	0.258	-0.0000
64	274	0.250	0.0000	0.0000	0.0000	72	282	0.259	-0.0000
65	275	0.251	0.0000	0.0000	0.0000	73	283	0.260	-0.0000
66	276	0.252	0.0000	0.0000	0.0000	74	284	0.261	-0.0000
67	277	0.252	-0.0000	-0.0000	-0.0000	75	285	0.262	-0.0000
68	278	0.254	-0.0000	-0.0000	-0.0000				

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	TW(DEG K)	TW(DEG R)	C(W/CM2)	C(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	STIC(907)	STIC(874)	TIME(SEC)
61	271	318.0	572.4	-0.000	-0.000	15.663	13.801	-0.0000E-39	-0.0000E-39	2.158
62	272	318.2	572.3	0.000	0.000	15.659	13.797	0.0000E-39	0.0000E-39	-1.161
63	273	318.5	573.2	-0.000	-0.000	15.655	13.794	-0.0000E-39	-0.0000E-39	3.535
64	274	318.3	573.0	0.000	0.000	15.657	13.796	0.0000E-39	0.0000E-39	0.747
65	275	319.0	574.2	0.000	0.000	15.545	13.785	0.0000E-39	0.0000E-39	-2.097
66	276	320.1	576.2	0.000	0.000	15.626	13.768	0.0000E-39	0.0000E-39	0.945
67	277	321.1	577.9	-0.000	-0.000	15.609	13.754	-0.0000E-39	-0.0000E-39	0.456
68	278	322.3	580.2	-0.000	-0.000	15.587	13.734	-0.0000E-39	-0.0000E-39	-0.321
69	279	324.0	583.1	-0.000	-0.000	15.558	13.709	-0.0000E-39	-0.0000E-39	0.531
70	280	326.1	587.0	-0.000	-0.000	15.520	13.675	-0.0000E-39	-0.0000E-39	0.345
71	281	327.8	590.0	-0.000	-0.000	15.491	13.649	-0.0000E-39	-0.0000E-39	-0.263
72	282	328.9	591.9	-0.000	-0.000	15.472	13.633	-0.0000E-39	-0.0000E-39	-0.122
73	283	330.4	594.8	-0.000	-0.000	15.444	13.609	-0.0000E-39	-0.0000E-39	0.200
74	284	331.8	597.2	-0.000	-0.000	15.420	13.587	-0.0000E-39	-0.0000E-39	0.158
75	285	333.6	600.5	-0.000	-0.000	15.388	13.559	-0.0000E-39	-0.0000E-39	0.160

PACH 5.10
PACH 5.00

RS(METER) 0.3048
RS(FT) 1.0000

AS(METER) 1.2768E 06
AS(FT) 1.0000

PT(ATM) 14.23
PT(P51) 209.24

REL LENGTH(METER) 0.914
REL LENGTH(FT) 3.000

REL 3.7063E 06
REL 3.7063E 06

HAW/HT 1.000
HAW/HT 1.000

TEST NO. 158
RUN NO. 37

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.5209E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10
 5.1C 4.4719E 06 4.0251E 06 0.914 14.23 1143.6 1.2104E 06 0.3048 1.0000
 MACH 5.10 1.3417E 06 4.0251E 06 3.000 209.24 2058.4 520.51 1.0000
 TEST NO. 158
 RUN NO. 37
 HAW/HT 1.000
 HAW/HT 1.000
 RS(METER) 0.3048
 RS(FT) 1.0000
 HAW/HT 1.000
 HAW/HT 1.000
 CONSTANT SET 352

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.874)	H/HS(0.907)	H/HS(0.874)
1	201	0.263	0.0014	0.0014	0.0017	0.0759	0.0916
2	202	0.265	0.0083	0.0095	0.0100	0.0909	0.1041
3	203	0.266	0.0402	0.0402	0.0485	0.1115	0.1346
4	204	0.266	0.0515	0.0590	0.0621	0.1117	0.1279
5	205	0.266	0.0662	0.0758	0.0799	0.1083	0.1309

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.874)
6	206	0.267	0.0759	0.0759	0.0869
7	207	0.267	0.0909	0.0909	0.1041
8	208	0.268	0.1115	0.1115	0.1277
9	209	0.268	0.1117	0.1117	0.1279
10	210	0.267	0.1083	0.1083	0.1241

MACH		RE/METER		REL		LENGTH(PETER)		PT(ATM)		TT(DEG K)		HT(Joule/KG)		RS(METER)		HAM/HT		TEST NO.	
5.10		4.4019E 06		4.0251E 06		0.914		14.23		1143.6		1.210AE 06		0.304E		1.000		158	
MACH		RE/FT		REL		LENGTH(FT)		PT(LPSI)		TT(DEG R)		HT(BTU/LBM)		RS(FT)		HAM/HT		RUN NO.	
5.10		1.3417E 06		4.0251E 06		3.000		209.24		2058.4		520.51		1.0000		1.000		37	
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	STIC(907)	STIC(87A)	TIME (SEC)									
1	201	317.4	571.3	0.020	0.018	14.600	12.864	4.4787E-06	4.7207E-06	0.544									
2	202	318.9	574.1	0.120	0.106	14.572	12.840	2.6989E-05	2.8451E-05	0.841									
3	203	320.0	576.0	0.584	0.515	14.554	12.824	1.3116E-04	1.3827E-04	0.635									
4	204	320.6	577.0	0.749	0.660	14.543	12.815	1.6815E-04	1.7728E-04	0.423									
5	205	320.8	577.5	0.962	0.849	14.539	12.811	2.1611E-04	2.2784E-04	-0.005									
6	206	321.6	578.9	1.102	0.971	14.525	12.799	2.4786E-04	2.6133E-04	-0.119									
7	207	321.7	579.0	1.320	1.163	14.524	12.798	2.9685E-04	3.1299E-04	0.001									
8	208	322.6	580.7	1.617	1.423	14.508	12.783	3.6412E-04	3.8394E-04	0.284									
9	209	322.8	581.1	1.620	1.427	14.504	12.780	3.6488E-04	3.8472E-04	0.309									
10	210	322.4	580.3	1.572	1.385	14.512	12.787	3.5394E-04	3.7320E-04	0.317									

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6549E-01 (SLUGS/FT2-SEC)

PROBE NG. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER HOFFETT FIELD CALIF. 95 PRELIMINARY DATA 556
 MACH 5.10 4.2169E 06 3.8560E 06 REL LENGTH(METER) PT(DES K) TT(DES K) HT(POULE/KG) RS(METER) HZ/HT TEST NO. 158
 5.10 1.2853E 06 3.8560E 06 REL LENGTH(FT) LEMGRJET) 209.24 2111.2 2111.2 0.914 1.2440E 00 0.3040 1.000 RUN NO. 37

CHAN	T/C	TW(DES K)	TW(DES R)	Q(W/CM2)	C(BTU/FTZ-SEC)	Q(S(BTU/FTZ-SEC)	QS(BTU/FTZ-SEC)	ST(10.9071)	ST(10.874)	TIME(SEC)
11	301	322.2	579.9	-0.000	-0.000	13.277	-0.000E-39	-0.000E-39	0.224	
12	302	322.8	581.0	-0.000	-0.000	13.568	-0.000E-39	-0.000E-39	0.224	
13	303	321.4	578.1	-0.000	-0.000	13.790	-0.000E-39	-0.000E-39	0.172	
14	304	322.6	580.7	-0.000	-0.000	13.270	-0.000E-39	-0.000E-39	0.188	
15	305	321.6	578.9	-0.000	-0.000	13.286	-0.000E-39	-0.000E-39	0.162	
16	306	321.5	578.8	-0.000	-0.000	13.267	-0.000E-39	-0.000E-39	0.352	
17	307	322.3	580.2	-0.000	-0.000	13.275	-0.000E-39	-0.000E-39	0.065	
18	308	320.8	577.5	-0.000	-0.000	13.299	-0.000E-39	-0.000E-39	0.072	
19	309	321.5	578.7	-0.000	-0.000	13.287	-0.000E-39	-0.000E-39	0.085	
20	310	320.9	577.6	-0.000	-0.000	13.298	-0.000E-39	-0.000E-39	0.005	
21	311	321.3	578.3	-0.000	-0.000	13.291	-0.000E-39	-0.000E-39	0.004	
22	312	322.5	580.4	-0.000	-0.000	13.273	-0.000E-39	-0.000E-39	0.079	
23	313	321.2	578.1	-0.000	-0.000	13.293	-0.000E-39	-0.000E-39	0.079	
24	314	321.1	578.0	-0.000	-0.000	13.294	-0.000E-39	-0.000E-39	0.079	
25	315	321.0	577.8	-0.000	-0.000	13.294	-0.000E-39	-0.000E-39	0.079	
26	316	321.1	578.0	-0.000	-0.000	13.294	-0.000E-39	-0.000E-39	0.079	
27	317	321.5	578.8	-0.000	-0.000	13.287	-0.000E-39	-0.000E-39	0.078	
28	318	323.8	582.9	-0.000	-0.000	13.252	-0.000E-39	-0.000E-39	0.505	
29	319	320.4	576.8	-0.000	-0.000	13.304	-0.000E-39	-0.000E-39	0.213	
30	320	-0.0	-0.0	.....	.....	.....	.....	.....	0.040
31	231	315.4	568.2	0.004	0.004	13.373	9.3631E-01	9.3631E-01	2.612	
32	232	316.4	569.5	0.034	0.030	13.367	7.9243E-06	7.9243E-06	1.321	
33	233	317.5	571.5	0.032	0.028	13.350	7.0802E-06	7.0802E-06	0.998	
34	234	318.4	573.4	0.073	0.065	13.333	1.6104E-05	1.6104E-05	0.681	
35	235	319.1	574.4	0.063	0.056	13.325	1.3950E-05	1.3950E-05	0.532	
36	236	320.2	576.3	0.083	0.073	13.308	1.8314E-05	1.8314E-05	0.456	
37	237	321.4	578.5	0.188	0.165	13.290	4.1372E-05	4.1372E-05	0.893	
38	238	322.3	580.1	0.229	0.231	13.276	1.8295E-04	1.8295E-04	0.882	
39	239	321.5	578.7	1.235	1.089	13.288	2.7232E-04	2.7232E-04	0.439	
40	240	322.3	581.9	1.554	1.369	13.260	3.4326E-04	3.4326E-04	0.259	
41	241	321.2	578.2	1.839	1.621	13.292	4.0323E-04	4.0323E-04	0.259	
42	242	322.9	581.2	2.031	1.790	13.267	4.4857E-04	4.4857E-04	0.314	
43	243	323.7	582.6	1.288	1.574	13.257	3.9523E-04	3.9523E-04	0.420	
44	244	323.6	582.5	1.747	1.540	13.257	3.8624E-04	3.8624E-04	0.414	
45	245	322.6	580.7	1.945	1.714	13.270	4.2935E-04	4.2935E-04	0.411	
46	246	322.0	579.7	1.791	1.578	13.274	3.9498E-04	3.9498E-04	0.438	
47	247	322.2	580.0	2.452	2.160	13.276	5.4100E-04	5.4100E-04	0.461	
48	248	-0.0	-0.0	.....	.....	.....	.....	.....	0.461
49	249	321.5	578.8	2.832	2.378	13.287	1.4661E-02	1.4661E-02	0.461	
50	250	320.8	577.4	3.131	2.759	13.299	5.9189E-04	5.9189E-04	0.492	
51	261	321.4	578.4	0.434	0.389	13.290	6.3965E-04	6.3965E-04	0.504	
52	262	-0.0	-0.0	.....	.....	.....	.....	.....	0.484
53	263	316.7	570.1	0.020	0.017	13.362	5.5667E-05	5.5667E-05	0.484	
54	264	315.7	568.2	0.027	0.024	13.376	2.3445E-02	2.3445E-02	0.462	
55	265	-0.0	-0.0	.....	.....	.....	.....	.....	0.462
56	265	315.1	567.2	0.017	0.015	13.387	4.2449E-06	4.2449E-06	1.282	
57	266	316.0	568.8	0.240	0.212	13.373	5.8622E-06	5.8622E-06	2.375	
58	267	317.5	571.5	0.030	0.044	13.359	3.6807E-06	3.6807E-06	0.886	
59	268	319.4	575.0	0.120	0.104	13.320	3.6807E-06	3.6807E-06	2.575	
60	269	320.4	576.8	0.832	0.557	13.304	5.2408E-05	5.2408E-05	1.445	
							1.0319E-05	1.0319E-05	1.164	
							2.6362E-05	2.6362E-05	0.265	
							1.3919E-04	1.3919E-04	0.135	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.5849E-01 (SLUGS/FTZ-SEC)

PROBE NO. 7 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.0532E 06 3.7063E 06 0.914 14.23 TT(DEG K) HT(JCULE/KG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.10 1.2354E 06 3.7063E 06 3.000 209.24 PT(P/SI) TT(DEG R) HT(BTU/LBM) RS(FT) HAM/HT RUN NO. 37

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C-907)	ST(O-874)	TIME(SEC)
61	271	318.0	572.4	0.016	0.014	15.663	13.801	3.5134E-06	3.6992E-06	2.158
62	272	318.2	572.8	-0.005	-0.005	15.659	13.797	-1.1869E-06	-1.2493E-06	-1.161
63	273	318.5	573.2	0.006	0.006	15.65	13.794	1.5554E-06	1.6377E-06	3.535
64	274	318.3	573.0	-0.025	-0.025	15.657	13.796	-6.0025E-06	-6.3201E-06	0.747
65	275	319.0	574.2	-0.006	-0.005	15.645	13.785	-1.2215E-06	-1.2662E-06	-2.097
66	276	320.1	576.2	-0.006	-0.005	15.626	13.768	-1.2935E-06	-1.5622E-06	0.945
67	277	321.0	577.9	0.010	0.009	15.609	13.754	2.1885E-06	2.3047E-06	0.456
68	278	322.3	580.2	0.020	0.018	15.587	13.734	4.3453E-06	4.5764E-06	-0.321
69	279	324.0	583.1	0.104	0.092	15.558	13.709	2.2668E-05	2.3876E-05	0.531
70	280	326.1	587.0	0.703	0.619	15.520	13.675	1.5308E-04	1.6126E-04	0.345
71	281	327.8	590.0	1.059	0.933	15.491	13.649	2.3112E-04	2.4350E-04	-0.284
72	282	328.9	591.9	1.588	1.409	15.472	13.633	3.4693E-04	3.6554E-04	-0.124
73	283	330.4	594.8	1.794	1.609	15.444	13.609	3.9286E-04	4.1397E-04	0.199
74	284	331.8	597.2	1.676	1.587	15.420	13.587	3.6759E-04	3.8737E-04	0.157
75	285	333.6	600.5	1.760	1.551	15.388	13.159	3.8677E-04	4.0764E-04	0.159

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.3205E-01 (SLUGS/FT2-SEC)

PROBE NO. 3

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. ***
 TEST NO. 158
 RUN NO. 38
 MACH REL H/HS(H/US) H/HS(L/US) H/HS(L/CC) H/HS(L/874) H/HS(L/907) H/HS(L/874)
 0.1 0.45 0.15 1.3266 0.6 1.3266 0.6 0.121 0.121 0.121 0.121 0.121 0.121 0.121 0.121 0.121
 MACH REL H/HS(L/US) H/HS(L/CC) H/HS(L/874) H/HS(L/907) H/HS(L/874)
 0.1 0.45 0.15 1.3266 0.6 1.3266 0.6 0.121 0.121 0.121 0.121 0.121 0.121 0.121 0.121
 MACH REL H/HS(L/US) H/HS(L/CC) H/HS(L/874) H/HS(L/907) H/HS(L/874)
 0.1 0.45 0.15 1.3266 0.6 1.3266 0.6 0.121 0.121 0.121 0.121 0.121 0.121 0.121 0.121

CHAN	T/C	H/HS(L/US)	H/HS(L/CC)	H/HS(L/874)	H/HS(L/907)	H/HS(L/874)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.
1	14	0.256	0.121	0.121	0.121	0.121	4.58	1.916E C6	0.3048	1.000	158	
2	15	0.257	0.127	0.127	0.127	0.127	4.58	1.916E C6	0.3048	1.000	158	
3	16	0.257	0.125	0.125	0.125	0.125	4.58	1.916E C6	0.3048	1.000	158	
4	17	0.257	0.1013	0.1013	0.1013	0.1013	4.58	1.916E C6	0.3048	1.000	158	
5	18	0.256	0.0989	0.0989	0.0989	0.0989	4.58	1.916E C6	0.3048	1.000	158	
6	19	0.257	0.0751	0.0751	0.0751	0.0751	4.58	1.916E C6	0.3048	1.000	158	
7	20	0.256	0.0822	0.0822	0.0822	0.0822	4.58	1.916E C6	0.3048	1.000	158	
8	21	0.256	0.0804	0.0804	0.0804	0.0804	4.58	1.916E C6	0.3048	1.000	158	
9	22	0.256	0.0773	0.0773	0.0773	0.0773	4.58	1.916E C6	0.3048	1.000	158	
10	23	0.256	0.0761	0.0761	0.0761	0.0761	4.58	1.916E C6	0.3048	1.000	158	
11	24	0.256	0.0730	0.0730	0.0730	0.0730	4.58	1.916E C6	0.3048	1.000	158	
12	25	0.256	0.0705	0.0705	0.0705	0.0705	4.58	1.916E C6	0.3048	1.000	158	
13	25	0.256	0.0701	0.0701	0.0701	0.0701	4.58	1.916E C6	0.3048	1.000	158	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MOBILE, FIELD CALLE. *** PRELIMINARY DATA ***

TEST NO. 158 RUN NO. 38
HAW/HT 1.000
RS(METER) 0.3046
RS(FIT) 1.0000

CHAR	L/C	IN(L)E(K)	IN(L)E(R)	IN(L)E(M)	PT(ATM)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
1	3.4.2	547.0	0.372	0.769	8.238	7.259	6.288E-04	6.351E-04	0.241	158
2	3.4.5	548.4	0.703	0.703	9.235	7.256	5.516E-04	5.811E-04	0.233	38
3	3.4.4	548.0	0.769	0.678	6.236	7.257	5.317E-04	5.604E-04	0.226	
4	3.4.4	547.8	0.730	0.643	8.237	7.258	5.047E-04	5.317E-04	0.225	
5	3.4.2	547.6	0.713	0.628	8.238	7.259	4.927E-04	5.190E-04	0.220	
6	2.7.5	555.4	0.547	0.547	8.235	7.258	3.744E-04	3.943E-04	0.37	
7	3.4.3	547.7	0.677	0.596	8.237	7.258	4.678E-04	4.928E-04	0.207	
8	3.4.1	547.4	0.653	0.584	8.239	7.260	4.578E-04	4.823E-04	0.191	
9	3.4.0	547.3	0.637	0.561	8.240	7.261	4.464E-04	4.635E-04	0.194	
10	3.3.9	547.3	0.627	0.552	8.241	7.262	4.331E-04	4.562E-04	0.191	
11	3.3.7	545.7	0.602	0.530	8.243	7.263	4.158E-04	4.377E-04	0.189	
12	3.3.5	546.3	0.581	0.513	8.245	7.265	4.017E-04	4.232E-04	0.187	
13	3.3.8	546.9	0.578	0.509	8.242	7.262	3.952E-04	4.205E-04	0.180	
14	3.3.0	547.2	0.552	0.487	8.240	7.261	3.816E-04	4.020E-04	0.173	
15	3.3.2	547.6	0.543	0.478	8.238	7.259	3.750E-04	3.950E-04	0.148	
16	3.3.9	547.0	0.531	0.468	8.242	7.262	3.669E-04	3.865E-04	0.148	
17	3.3.8	546.8	0.527	0.46	8.243	7.263	3.585E-04	3.832E-04	0.147	
18	3.3.2	547.2	0.514	0.470	8.241	7.262	3.663E-04	3.885E-04	0.151	
19	3.3.0	547.3	0.526	0.464	8.240	7.261	3.657E-04	3.832E-04	0.145	
20	3.3.0	547.2	0.520	0.459	8.240	7.261	3.595E-04	3.787E-04	0.141	
21	3.3.9	547.1	0.537	0.473	8.241	7.262	3.708E-04	3.906E-04	0.141	
22	3.4.1	547.4	0.538	0.474	8.239	7.260	3.715E-04	3.914E-04	0.143	
23	3.4.1	547.4	0.548	0.483	8.239	7.260	3.787E-04	3.990E-04	0.148	
24	3.4.5	547.9	0.545	0.480	8.236	7.257	3.744E-04	3.965E-04	0.145	
25	3.4.2	547.6	0.551	0.486	8.238	7.259	3.811E-04	4.015E-04	0.134	

FREESTREAM DENSITY-VELOCITY PRODUCT = 1.288E-11 (SLUGS/FTZ-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER COFFEY FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 38

CHAN	I/C	IN (INCHES)	REL	RE/METER	REL	LENGTH (METER)	PT (ATM)	TT (DEG K)	HT (FOOT)	RS (FT)	HAW/HT	TIME (SEC)
46	26	3.4.5	549.0	0.854	0.750	8.236	7.257	5.8870E-04	6.2017E-04	0.169		
47	27	3.5.1	549.0	0.784	0.691	8.230	7.254	5.4227E-04	5.7128E-04	0.164		
48	28	3.4.8	548.7	0.742	0.653	8.232	7.254	5.3224E-04	5.3964E-04	0.175		
49	29	3.4.9	548.8	0.702	0.618	8.232	7.253	4.9347E-04	5.1143E-04	0.154		
30	30	3.4.7	548.5	0.675	0.595	8.233	7.254	4.6671E-04	4.9167E-04	0.150		
31	31	3.4.6	548.2	0.643	0.569	8.235	7.256	4.3220E-04	4.7005E-04	0.142		
32	32	3.4.5	548.1	0.622	0.548	8.235	7.256	4.3021E-04	4.5321E-04	0.122		
33	33	3.4.6	548.3	0.600	0.534	8.235	7.256	4.1906E-04	4.4146E-04	0.120		
34	34	3.4.5	548.4	0.583	0.514	8.236	7.257	4.3066E-04	4.2460E-04	0.110		
35	35	3.4.4	547.9	0.569	0.504	8.237	7.257	3.9310E-04	4.1411E-04	0.109		
36	36	3.4.4	547.8	0.552	0.487	8.237	7.258	3.8188E-04	4.0229E-04	0.097		
37	37	3.4.1	547.5	0.541	0.474	8.239	7.260	3.7265E-04	3.9363E-04	0.086		
38	38	3.4.3	547.7	0.531	0.468	8.238	7.259	3.5725E-04	3.8688E-04	0.087		
39	39	3.4.1	547.5	0.513	0.452	8.239	7.260	3.5428E-04	3.7320E-04	0.078		
40	40	3.4.0	547.1	0.500	0.441	8.241	7.261	3.4575E-04	3.6422E-04	0.076		
41	41	3.01.9	543.4	0.493	0.435	8.262	7.280	3.4001E-04	3.5812E-04	0.079		
42	42	3.01.7	543.1	0.484	0.427	8.265	7.281	3.3371E-04	3.5148E-04	0.070		
43	43	3.01.6	542.9	0.477	0.420	8.265	7.282	3.2253E-04	3.4604E-04	0.064		
44	44	3.1.5	542.7	0.472	0.410	8.265	7.283	3.2533E-04	3.4267E-04	0.062		
45	45	3.1.3	542.4	0.462	0.400	8.267	7.284	3.1646E-04	3.3541E-04	0.063		
46	46	3.01.5	542.6	0.454	0.400	8.266	7.283	3.1260E-04	3.2924E-04	0.051		
47	47	3.06.1	551.0	0.452	0.434	8.219	7.242	1.0524E-04	1.1088E-04	-0.420		
48	48	3.01.5	542.7	0.450	0.397	8.265	7.283	3.1020E-04	3.2671E-04	0.046		
49	49	3.01.5	542.6	0.447	0.394	8.264	7.283	3.1762E-04	3.2399E-04	0.038		
50	50	3.01.4	543.5	0.444	0.391	8.267	7.284	3.2555E-04	3.2182E-04	0.038		

FREESTREAM DENSITY-VELOCITY PRODUCT = 1.188E-1 (SLUGS/FT²-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH		R/L		LENGHT(METER)		P(ATM)		T(DEG K)		HT(JOULE/KG)		RS(METER)		FAM/HT	
5.1		1.2847E 06		0.914		4.58		1.48.9		1.2167E 06		0.3028		1.000	
MACH		REL		LENGHT(FT)		P(P/SI)		T(DEG R)		H(HBTU/LBM)		RS(FT)		HAM/ZH	
5.1		1.2847E 06		5.000		67.32		2068.1		523.20		1.0000		1.000	
CHAN	L/C	HW/HT	G/US	H/HS(LA.CCQ)	F/F(LA.BCT)	H/HS(O.BT4)	CHAN	T/C	HW/HT	G/US	H/FS(L.GQD)	H/HS(O.907)	H/HS(O.874)		
51	51	0.251	0.1032	0.1032	0.1032	0.1240	64	54	0.251	0.0729	0.0739	0.0844	0.0889		
52	52	0.251	0.0974	0.0974	0.1112	0.1171	65	65	0.251	0.0658	0.0658	0.0752	0.0791		
53	53	0.251	0.0918	0.0918	0.1048	0.1104	66	66	0.251	0.0632	0.0632	0.0722	0.0760		
54	54	0.251	0.0917	0.0917	0.1047	0.1102	67	67	0.252	0.0615	0.0615	0.0702	0.0740		
55	55	0.251	0.0870	0.0870	0.0994	0.1046	68	68	0.253	0.0607	0.0607	0.0694	0.0730		
56	56	0.251	0.0858	0.0858	0.0992	0.1044	69	69	0.253	0.0588	0.0588	0.0672	0.0707		
57	57	0.251	0.0819	0.0819	0.0935	0.0985	70	70	0.254	0.0581	0.0581	0.0664	0.0699		
58	58	0.251	0.0779	0.0779	0.0890	0.0937	71	71	0.255	0.0619	0.0619	0.0707	0.0745		
59	59	0.251	0.0796	0.0796	0.0909	0.0957	72	72	0.256	0.0644	0.0644	0.0736	0.0776		
60	60	0.251	0.0754	0.0754	0.0860	0.0906	73	73	0.256	0.0602	0.0602	0.0688	0.0725		
61	61	0.251	0.0748	0.0748	0.0854	0.0899	74	74	0.257	0.0548	0.0548	0.0626	0.0660		
62	62	0.251	0.0723	0.0723	0.0826	0.0869	75	75	0.258	0.0475	0.0475	0.0545	0.0572		
63	63	0.251	0.0720	0.0720	0.0823	0.0866									

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOEFELI FIELD CALIF. *** PRELIMINARY DATA ***										
MACH		REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10	1.2847E 06	0.914	0.914	0.914	0.914	0.914	0.914	0.914	0.914	0.914
5.10	4.2823E 05	1.2847E 05	3.200	67.32	2069.1	523.20	1.000	1.000	1.000	1.000
CHAN	I/C	I (IN/DEG. K)	L (IN/DEG. K)	W (IN/DEG. K)	W (IN/DEG. K)	W (IN/DEG. K)	W (IN/DEG. K)	W (IN/DEG. K)	W (IN/DEG. K)	W (IN/DEG. K)
51	51	33.1	545.6	0.975	0.771	8.481	7.473	5.7511E-04	5.9181E-04	0.081
52	52	33.6	546.4	0.820	0.728	8.476	7.469	5.6206E-04	5.5786E-04	0.082
53	53	33.2	546.3	0.778	0.686	8.477	7.469	5.2981E-04	5.2893E-04	0.078
54	54	303.6	546.6	0.777	0.685	8.475	7.468	5.2148E-04	5.2872E-04	0.075
55	55	303.6	546.6	0.728	0.650	8.476	7.468	5.2743E-04	5.2743E-04	0.063
56	56	303.6	546.5	0.736	0.645	8.476	7.468	5.2592E-04	4.9763E-04	0.056
57	57	303.6	546.5	0.594	0.512	8.476	7.468	4.7261E-04	4.7341E-04	0.047
58	58	303.8	546.8	0.560	0.482	8.474	7.467	4.5611E-04	4.8366E-04	0.043
59	59	303.6	546.5	0.675	0.595	8.476	7.468	4.5455E-04	4.5778E-04	0.041
60	60	303.8	546.9	0.639	0.563	8.474	7.467	4.4758E-04	4.5450E-04	0.027
61	61	303.8	546.8	0.634	0.552	8.474	7.467	4.3165E-04	4.5450E-04	0.027
62	62	303.7	546.6	0.613	0.540	8.475	7.468	4.1244E-04	4.3933E-04	0.022
63	63	303.7	546.6	0.511	0.538	8.475	7.468	4.1564E-04	4.3765E-04	0.022
64	64	304.1	547.3	0.626	0.552	8.471	7.464	4.2655E-04	4.4915E-04	-0.011
65	65	304.0	547.3	0.558	0.491	8.472	7.465	3.7980E-04	3.9992E-04	-0.019
66	66	304.5	548.4	0.595	0.472	8.465	7.459	3.4484E-04	3.8418E-04	-0.038
67	67	305.1	549.2	0.520	0.458	8.461	7.455	3.5484E-04	3.7366E-04	-0.023
68	68	305.1	551.1	0.512	0.452	8.451	7.454	3.5037E-04	3.6898E-04	0.002
69	69	305.9	552.4	0.496	0.437	8.443	7.440	3.2934E-04	3.5718E-04	-0.018
70	70	307.5	553.5	0.490	0.432	8.437	7.434	3.3542E-04	3.5277E-04	-0.018
71	71	309.0	556.3	0.521	0.459	8.422	7.421	3.5729E-04	3.7634E-04	0.021
72	72	310.3	558.6	0.542	0.477	8.409	7.409	3.7188E-04	3.9174E-04	0.001
73	73	310.7	559.3	0.506	0.446	8.405	7.406	3.4752E-04	3.6609E-04	-0.021
74	74	311.7	561.1	0.463	0.405	8.395	7.397	3.1627E-04	3.3320E-04	-0.083
75	75	312.5	562.6	0.398	0.331	8.387	7.390	2.7413E-04	2.8882E-04	-0.215

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.4717E-1 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.3221E C6 2.1233E C6 0.914 8.06 1192.4 1.2673E C6 0.3048 1.000
 RE/METER REL LENGTH(PETER) PT(LATH) TT(DEC K) HT(JDULE/KG) RS(METER) HAW/HT TEST NO. 158
 MACH 5.10 7.0778E C5 2.1233E C6 3.000 118.50 2186.2 542.99 1.0000 1.0000 HAW/HT CONSTANT SET III
 RE/FT REL LENGTH(FT) PT(PST) T(DEC R) HT(BTU/LBM) RS(FT) HAW/HT RUN NO. 39

CHAN	T/C	FM/FT	Q/QS	F/HS(1.000)	H/HS(0.907)	H/HS(0.874)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	14	0.245	0.0897	0.0897	0.1023	0.1077	0.0568	0.0648	0.0682
2	15	0.246	0.0818	0.0933	0.0982	0.0982	0.0545	0.0622	0.0655
3	16	0.245	0.0776	0.0885	0.0931	0.0931	0.0528	0.0603	0.0634
4	17	0.246	0.0738	0.0821	0.0886	0.0886	0.0518	0.0591	0.0622
5	18	0.245	0.0713	0.0813	0.0855	0.0855	0.0514	0.0586	0.0617
6	19	0.245	0.0684	0.0780	0.0821	0.0821	0.0502	0.0572	0.0602
7	20	0.245	0.0682	0.0778	0.0819	0.0819	0.0488	0.0557	0.0585
8	21	0.245	0.0661	0.0754	0.0794	0.0794	0.0493	0.0563	0.0592
9	22	0.245	0.0632	0.0720	0.0758	0.0758	0.0502	0.0573	0.0603
10	23	0.245	0.0615	0.0702	0.0739	0.0739	0.0514	0.0586	0.0617
11	24	0.245	0.0583	0.0665	0.0700	0.0700	0.0531	0.0606	0.0638
12	25	0.245	0.0545	0.0621	0.0654	0.0654	0.0578	0.0659	0.0693
13	25	0.245	0.0569	0.0589	0.0671	0.0676	0.0578	0.0659	0.0693

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	IN(DEC K)	IN(DIG R)	Q1(W/CM2)	Q(RTU/FT2-SEC)	QS(W/CM2)	CS(8TU/FT2-SEC)	ST1(0.874)	TIME(SEC)
1	1	309.3	556.7	1.058	0.932	11.788	10.387	4.0059E-04	4.2161E-04
2	2	310.1	558.1	0.963	0.849	11.777	10.377	3.6521E-04	3.8439E-04
3	3	305.6	557.6	0.914	0.805	11.781	10.381	3.4643E-04	3.6461E-04
4	4	309.8	557.6	0.869	0.766	11.780	10.380	3.2930E-04	3.4865E-04
5	5	309.6	557.3	0.840	0.740	11.783	10.383	3.1816E-04	3.3486E-04
6	6	305.4	556.9	0.806	0.710	11.786	10.385	3.0521E-04	3.2123E-04
7	7	305.5	557.0	0.804	0.709	11.785	10.384	3.0468E-04	3.2057E-04
8	8	309.3	556.8	0.780	0.687	11.787	10.386	2.9533E-04	3.1083E-04
9	9	309.1	556.4	0.745	0.656	11.789	10.388	2.8195E-04	2.9674E-04
10	10	309.1	556.4	0.726	0.639	11.789	10.388	2.7474E-04	2.8916E-04
11	11	308.5	556.1	0.687	0.606	11.792	10.390	2.6025E-04	2.7390E-04
12	12	308.8	555.8	0.642	0.566	11.794	10.392	2.4316E-04	2.5585E-04
13	13	308.5	555.9	0.694	0.612	11.793	10.391	2.6277E-04	2.7655E-04
14	14	308.5	556.0	0.670	0.590	11.793	10.391	2.5765E-04	2.6695E-04
15	15	305.0	556.2	0.643	0.567	11.791	10.385	2.4348E-04	2.5625E-04
16	16	308.8	555.8	0.623	0.549	11.794	10.392	2.3588E-04	2.4424E-04
17	17	308.7	555.6	0.611	0.539	11.795	10.393	2.3137E-04	2.4350E-04
18	18	308.6	555.9	0.606	0.534	11.793	10.392	2.2939E-04	2.4142E-04
19	19	308.5	556.0	0.592	0.522	11.793	10.391	2.2408E-04	2.3384E-04
20	20	308.6	555.8	0.576	0.508	11.794	10.392	2.1803E-04	2.2946E-04
21	21	308.7	555.6	0.582	0.513	11.796	10.394	2.2021E-04	2.3176E-04
22	22	308.7	555.7	0.592	0.522	11.795	10.393	2.2429E-04	2.3607E-04
23	23	308.6	555.8	0.606	0.534	11.794	10.392	2.2939E-04	2.4135E-04
24	24	309.1	556.4	0.626	0.552	11.790	10.388	2.3718E-04	2.4962E-04
25	25	309.1	556.3	0.661	0.600	11.795	10.389	2.5793E-04	2.7146E-04

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0045E-01 (SLUGS/FT2-SEC)

PROBE NO. 1

TEST NO. 158
RUN NO. 39

HAW/HT 1.000
HAW/HT 1.000

RS(METER) 0.3048
RS(FT) 1.0000

PT(ATM) 8.06
PT(PSI) 118.50

PT(DEC K) 1192.4
PT(DEC R) 2146.2

PT(ATM) 8.06
PT(PSI) 118.50

PT(DEC K) 1192.4
PT(DEC R) 2146.2

PT(ATM) 8.06
PT(PSI) 118.50

PT(DEC K) 1192.4
PT(DEC R) 2146.2

PT(ATM) 8.06
PT(PSI) 118.50

PT(DEC K) 1192.4
PT(DEC R) 2146.2

PT(ATM) 8.06
PT(PSI) 118.50

PT(DEC K) 1192.4
PT(DEC R) 2146.2

PT(ATM) 8.06
PT(PSI) 118.50

PT(DEC K) 1192.4
PT(DEC R) 2146.2

PT(ATM) 8.06
PT(PSI) 118.50

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 39

WACH	REZ/PETER	REL	LENGTH(PETER)	PT(ATM)	TI(TEG K)	HT(JCULE/KG)	RS(METER)	HAW/HT					
5.10	2.1551E C6	2.0109E C6	0.914	H.06	1231.0	1.3126E 06	0.3048	1.000					
MACH	RE/FT	REL	LENGTH(FT)	PT(P/SI)	TI(DEG R)	HT(FTU/LDP)	RS(FT)	HAW/HT					
5.10	6.7025E C3	2.0109E C6	3.300	118.50	2235.7	565.47	1.0000	1.0000					
CHAN	T/C	P-W/FT	Q/QS	M/HS(1.000)	H/HS(0.907)	M/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
26	26	C.227	C.0828	0.0943	0.0992	0.0992	39	39	0.237	0.0527	0.0527	0.0600	0.0631
27	27	C.236	C.0767	0.0874	0.0919	0.0919	40	40	0.237	0.0529	0.0529	0.0602	0.0633
28	28	C.238	C.0738	0.0841	0.0884	0.0884	41	41	C.237	0.0518	0.0518	0.0590	0.0621
29	29	0.238	C.0700	0.0797	0.0838	0.0838	42	42	0.236	0.0512	0.0512	0.0583	0.0613
30	30	C.236	C.0671	0.0764	0.0804	0.0804	43	43	0.236	0.0507	0.0507	0.0578	0.0608
31	31	C.238	C.0642	0.0731	0.0769	0.0769	44	44	0.236	0.0505	0.0505	0.0575	0.0605
32	32	0.237	C.0612	0.0697	0.0733	0.0733	45	45	0.236	0.0508	0.0508	0.0578	0.0508
33	33	C.237	C.0589	0.0671	0.0705	0.0705	46	46	0.236	0.0528	0.0528	0.0601	0.0633
34	34	C.237	C.0556	0.0633	0.0666	0.0666	47	47	0.239	0.0277	0.0277	0.0316	0.0332
35	35	0.237	C.0536	0.0611	0.0642	0.0642	48	48	0.236	0.0577	0.0577	0.0656	0.0690
36	36	C.237	C.0532	0.0606	0.0637	0.0637	49	49	0.236	0.0618	0.0618	0.0704	0.0741
37	37	C.237	C.0525	0.0597	0.0628	0.0628	50	50	0.236	0.0662	0.0662	0.0754	0.0793
38	38	0.237	C.0528	0.0601	0.0632	0.0632							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER POFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 5-10 2-1551E C6 2-0109F 06 2-0109F 06 2-0109E 06
 PACH 5-10 6-7025F C5 2-0109E 06
 REL LENGTH(FT) 0.914 0.914 3.000
 PT(ATM) 8.06
 TT(DEC K) 1231.0
 TT(DEC P) 2215.7
 HT(JOULE/KG) 1.3126E C6
 HT(BTU/LBM) 585.47
 RS(METER) 0.3048
 RS(FT) 1.0000
 HAM/HT 1.000
 HAM/HT 1.0000
 TEST NO. 158
 RUN NO. 39

CHAN	T/C	TW(DEC K)	TW(DEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	SI(C.907)	SI(10.874)	TIME(SEC)
26	210.1	558.1	1.020	0.899	12.325	10.860	3.7807E-04	3.9786E-04	0.323	
27	211.4	560.5	0.944	0.832	12.307	10.844	3.5035E-04	3.6854E-04	0.299	
28	210.9	559.6	0.909	0.801	12.314	10.850	3.3714E-04	3.5463E-04	0.258	
29	211.0	559.7	0.862	0.759	12.313	10.850	3.1957E-04	3.3615E-04	0.280	
30	210.8	559.5	0.826	0.728	12.315	10.851	3.0630E-04	3.2227E-04	0.234	
31	210.4	558.7	0.791	0.697	12.321	10.856	2.9304E-04	3.0823E-04	0.208	
32	210.3	558.6	0.754	0.664	12.322	10.857	2.7932E-04	2.9380E-04	0.160	
33	210.3	558.6	0.726	0.639	12.322	10.857	2.6391E-04	2.8285E-04	0.145	
34	210.1	558.2	0.685	0.603	12.324	10.859	2.5374E-04	2.6689E-04	0.110	
35	210.0	558.0	0.661	0.582	12.326	10.861	2.4389E-04	2.5758E-04	0.080	
36	209.9	557.8	0.656	0.578	12.328	10.862	2.4289E-04	2.5548E-04	0.072	
37	209.5	557.1	0.647	0.570	12.332	10.867	2.3953E-04	2.5194E-04	0.046	
38	209.6	557.3	0.651	0.574	12.331	10.865	2.4115E-04	2.5364E-04	0.051	
39	209.4	556.9	0.650	0.573	12.334	10.868	2.4061E-04	2.5307E-04	0.058	
40	209.2	556.6	0.652	0.574	12.336	10.870	2.4355E-04	2.5385E-04	0.066	
41	209.3	556.7	0.639	0.563	12.335	10.869	2.3688E-04	2.4893E-04	0.060	
42	209.1	556.3	0.632	0.557	12.338	10.872	2.3388E-04	2.4599E-04	0.044	
43	209.0	556.2	0.626	0.552	12.339	10.873	2.3175E-04	2.4375E-04	0.023	
44	208.8	555.9	0.623	0.549	12.342	10.875	2.3070E-04	2.4263E-04	0.010	
45	208.6	555.4	0.627	0.552	12.345	10.876	2.3180E-04	2.4379E-04	0.019	
46	208.7	555.7	0.652	0.574	12.343	10.876	2.4119E-04	2.5367E-04	0.043	
47	212.7	562.8	0.340	0.300	12.291	10.830	1.2652E-04	1.3310E-04	0.603	
48	208.7	555.6	0.712	0.627	12.344	10.876	2.6328E-04	2.7691E-04	0.079	
49	208.6	555.8	0.763	0.673	12.343	10.875	2.8244E-04	2.9705E-04	0.118	
50	208.6	555.4	0.817	0.720	12.345	10.878	3.0232E-04	3.1795E-04	0.156	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.9550E-01 (\$LUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
PACH		REF/METER	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10		2.1265 C6	1.9464E 06	0.914	8.06	1254.6	1.3405E C6	0.3048	1.000	0.3048	1.000	0.3048	1.000	0.3048	1.000
PACH		REF/FT	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10		6.4875E C5	1.9464E C6	3.000	118.50	2258.2	576.44	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)		
51	51	0.233	C.0846	0.0846	0.0963	0.1013	64	64	0.235	0.0621	0.0621	0.0707	0.0744		
52	52	0.234	C.0795	0.0795	0.0905	0.0952	65	65	C.234	0.0561	0.0561	0.0638	0.0671		
53	53	C.234	C.0752	0.0752	0.0856	0.0900	66	66	0.235	0.0541	0.0541	0.0616	0.0648		
54	54	0.234	C.0724	0.0724	0.0824	0.0867	67	67	0.235	0.0501	0.0501	0.0570	0.0600		
55	55	0.234	C.0693	0.0693	0.0788	0.0829	68	68	0.236	0.0476	0.0476	0.0542	0.0570		
56	56	0.234	C.0688	0.0688	0.0784	0.0824	69	69	0.237	0.0490	0.0490	0.0558	0.0587		
57	57	0.234	C.0655	0.0655	0.0746	0.0784	70	70	0.237	0.0506	0.0506	0.0576	0.0606		
58	58	0.234	C.0624	0.0624	0.0710	0.0747	71	71	0.239	0.0554	0.0554	0.0631	0.0664		
59	59	0.234	C.0628	0.0628	0.0715	0.0752	72	72	0.240	0.0629	0.0629	0.0716	0.0754		
60	60	0.234	C.0594	0.0594	0.0676	0.0711	73	73	0.240	0.0642	0.0642	0.0732	0.0770		
61	61	0.235	C.0597	0.0597	0.0679	0.0714	74	74	0.241	0.0697	0.0697	0.0794	0.0835		
62	62	0.235	C.0578	0.0578	0.0658	0.0692	75	75	0.242	0.0767	0.0767	0.0874	0.0920		
63	63	C.235	C.0582	0.0582	0.0662	0.0696									

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 WACH RE/METER REL LENGTH(METER) PT(ATM) TT(DEG R) HT(JOULE/KG) RS(METER) HAM/HT TEST NO.
 5.10 2.1266E C6 1.9464E C6 0.914 8.06 1254.6 1.3405E C6 C.3048 1.000 19
 WACH RE/FT REL LENGTH(FT) PI(PST) TT(DEG R) HT(LBTU/LBM) RS(FT) HAM/HT
 5.10 6.4875E C5 1.9464E D6 3.000 118.50 2258.2 576.44 1.0000 1.000

CHAN	T/C	TM(DEC K)	TM(DEC R)	Q(W/CM2)	Q(HTU/FT2-SEC)	CS(W/CM2)	CS(HTU/FT2-SEC)	GS(HTU/FT2-SEC)	ST(10.907)	ST(10.874)	TIME(SEC)
51	51	311.4	560.5	1.070	0.943	12.643	11.140	3.9188E-04	4.1207E-04	4.1207E-04	0.237
52	52	312.5	562.5	1.004	0.885	12.628	11.127	3.6828E-04	3.8727E-04	3.8727E-04	0.219
53	53	311.6	561.2	0.950	0.937	12.637	11.135	3.4822E-04	3.6616E-04	3.6616E-04	0.218
54	54	312.4	562.4	0.915	0.806	12.629	11.127	3.3533E-04	3.5262E-04	3.5262E-04	0.179
55	55	312.7	562.8	0.874	0.770	12.625	11.125	3.2070E-04	3.3724E-04	3.3724E-04	0.160
56	56	312.6	562.7	0.869	0.766	12.627	11.126	3.1879E-04	3.3523E-04	3.3523E-04	0.160
57	57	312.6	562.7	0.827	0.729	12.626	11.125	3.0344E-04	3.1910E-04	3.1910E-04	0.155
58	58	312.7	562.9	0.787	0.694	12.625	11.124	2.8883E-04	3.0373E-04	3.0373E-04	0.137
59	59	312.6	562.7	0.793	0.699	12.626	11.125	2.9081E-04	3.0581E-04	3.0581E-04	0.135
60	60	312.5	563.3	0.749	0.660	12.622	11.122	2.7493E-04	2.8911E-04	2.8911E-04	0.111
61	61	313.1	563.6	0.753	0.663	12.620	11.120	2.7625E-04	2.9051E-04	2.9051E-04	0.110
62	62	313.0	563.4	0.730	0.643	12.621	11.121	2.5773E-04	2.8155E-04	2.8155E-04	0.101
63	63	313.1	563.6	0.734	0.647	12.620	11.120	2.6941E-04	2.8331E-04	2.8331E-04	0.103
64	64	313.3	564.0	0.784	0.691	12.617	11.117	2.8778E-04	3.0264E-04	3.0264E-04	0.088
65	65	312.5	562.4	0.708	0.624	12.628	11.127	2.5967E-04	2.7307E-04	2.7307E-04	0.082
66	66	313.2	563.9	0.883	0.802	12.618	11.118	2.3069E-04	2.5363E-04	2.5363E-04	0.057
67	67	313.7	564.7	0.632	0.557	12.611	11.112	2.3197E-04	2.4395E-04	2.4395E-04	0.007
68	68	314.9	566.8	0.600	0.529	12.596	11.099	2.2057E-04	2.3198E-04	2.3198E-04	0.010
69	69	315.5	568.6	0.617	0.543	12.583	11.087	2.2692E-04	2.3867E-04	2.3867E-04	0.027
70	70	316.4	569.5	0.636	0.560	12.576	11.081	2.3420E-04	2.4633E-04	2.4633E-04	0.018
71	71	316.4	573.1	0.655	0.613	12.550	11.058	2.5666E-04	2.6999E-04	2.6999E-04	0.057
72	72	319.7	575.5	0.788	0.694	12.532	11.042	2.9121E-04	3.0636E-04	3.0636E-04	0.061
73	73	320.3	576.5	0.804	0.709	12.525	11.036	2.9745E-04	3.1293E-04	3.1293E-04	0.021
74	74	321.6	578.9	0.871	0.768	12.507	11.020	3.2278E-04	3.3961E-04	3.3961E-04	0.034
75	75	322.7	580.5	0.958	0.844	12.492	11.007	3.5532E-04	3.7387E-04	3.7387E-04	0.019

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.9257E-01 (SLUGS/FT2-SEC)

PROBE NO.* 3

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVES RESEARCH CENTER MOFFETT FIELD CALIF. ***

WACH REL LENGTH(PETER) PT(ATM) TT(DEG K) FT(JUCULE/K61) RS(METER) HAWHT TEST NO. 158
5.10 3.34765 C6 3.0611E C6 1.442 1180.3 1.2523E 06 C.3048 1.000 RUN NO. 40
MACH REL LENGTH(FT) PT(PST) TT(DEG R) FT(HTU/L6M) RS(FT) HAWHT CONSTANT 3.111
5.10 1.0204E C6 3.0611E C6 167.91 2124.6 538.94 1.0000 1.000

CHAN	T/C	FW/FT	W/C	F/HS(1.000)	F/HS(0.907)	H/HS(0.907)	H/HS(1.000)	H/HS(0.907)	H/HS(1.000)	H/HS(0.874)
1	1	C.250	C.0852	0.0552	0.0973	0.1024	0.0594	0.0679	0.0714	0.0720
2	2	C.251	C.0789	0.0789	0.0901	0.0949	0.0599	0.0684	0.0720	0.0749
3	3	C.251	C.0752	0.0752	0.0859	0.0905	0.0623	0.0712	0.0749	0.0796
4	4	C.251	C.0716	0.0716	0.0817	0.0860	0.0663	0.0756	0.0796	0.0887
5	5	C.250	C.0688	0.0688	0.0785	0.0827	0.0738	0.0842	0.0938	0.0988
6	6	C.250	C.0658	0.0658	0.0752	0.0791	0.0822	0.0822	0.0938	0.1057
7	7	C.250	C.0650	0.0650	0.0753	0.0793	0.0926	0.0926	0.1057	0.1113
8	8	C.250	C.0639	0.0639	0.0730	0.0768	0.1097	0.1097	0.1253	0.1319
9	9	C.250	C.0615	0.0615	0.0703	0.0740	0.1275	0.1275	0.1456	0.1533
10	10	C.250	C.0604	0.0604	0.0689	0.0726	0.1479	0.1479	0.1688	0.1778
11	11	C.250	C.0582	0.0582	0.0664	0.0700	0.1668	0.1668	0.1927	0.2029
12	12	C.250	C.0566	0.0566	0.0566	0.0680	0.1939	0.1939	0.2214	0.2331
13	13	C.250	C.0559	0.0559	0.0584	0.0720				

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PAGE	REZYMER	REL	3.000	REL	3.000	FT(P/J)	HT(8TU/LBM)	RS(FT)	1.000	HA/W/HT	TEST NO.
5.10	2.3476E C6	3.000	1.000	3.000	1.000	118.9.3	1.2533E C6	0.3048	1.000	1.000	158
PAGE	REZYMER	REL	3.000	REL	3.000	FT(P/J)	HT(8TU/LBM)	RS(FT)	1.000	HA/W/HT	RUN NO.
5.10	1.0205E C6	3.000	1.000	3.000	1.000	118.9.3	1.2533E C6	0.3048	1.000	1.000	40
CHAN	T/C	TW(EG K)	TW(EG R)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(C.907)	ST(C.874)	TIME(SEC)		
1	1	212.4	582.2	1.034	13.775	12.141	3.1734E-04	3.3413E-04	0.371		
2	2	212.2	563.7	0.958	13.766	12.130	2.9406E-04	3.0964E-04	0.323		
3	3	212.8	563.0	0.913	13.773	12.136	2.8029E-04	2.9513E-04	0.266		
4	4	212.7	562.9	0.986	13.774	12.136	2.8653E-04	2.8063E-04	0.238		
5	5	212.5	562.5	0.948	13.777	12.140	2.5617E-04	2.6972E-04	0.201		
6	6	212.3	562.1	0.907	13.781	12.142	2.4526E-04	2.5824E-04	0.159		
7	7	212.4	562.2	0.909	13.779	12.141	2.4567E-04	2.5867E-04	0.145		
8	8	212.2	561.5	0.981	13.782	12.144	2.3804E-04	2.5063E-04	0.108		
9	9	212.0	561.6	0.949	13.785	12.146	2.2945E-04	2.4159E-04	0.089		
10	10	212.1	561.7	0.832	13.784	12.145	2.2486E-04	2.3675E-04	0.074		
11	11	212.0	561.5	0.802	13.785	12.147	2.1679E-04	2.2825E-04	0.054		
12	12	211.9	561.4	0.780	13.787	12.148	2.1068E-04	2.2183E-04	0.043		
13	13	212.0	561.5	0.826	13.785	12.147	2.2312E-04	2.3492E-04	0.074		
14	14	212.0	561.6	0.819	13.785	12.146	2.2140E-04	2.3310E-04	0.057		
15	15	212.2	561.9	0.826	13.782	12.144	2.2324E-04	2.3505E-04	0.019		
16	16	211.8	561.5	0.859	13.786	12.147	2.3218E-04	2.4448E-04	0.039		
17	17	211.5	561.5	0.913	13.786	12.147	2.4678E-04	2.5983E-04	0.078		
18	18	212.1	561.8	1.017	13.783	12.145	2.7472E-04	2.8925E-04	0.133		
19	19	212.2	561.9	1.133	13.782	12.144	3.0608E-04	3.2227E-04	0.192		
20	20	212.1	561.5	1.276	13.782	12.144	3.4491E-04	3.6316E-04	0.254		
21	21	212.0	561.6	1.333	13.785	12.146	4.0868E-04	4.3030E-04	0.337		
22	22	212.1	561.7	1.549	13.784	12.145	4.7494E-04	5.0006E-04	0.515		
23	23	212.1	561.8	1.790	13.783	12.144	5.5089E-04	5.8075E-04	0.668		
24	24	212.4	562.4	2.049	13.778	12.140	6.2864E-04	6.6491E-04	0.510		
25	25	212.3	562.5	2.334	13.777	12.139	7.2234E-04	7.6056E-04	0.541		

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8627E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY CA/A ***

TEST NO. 158
RUN NO. 40

REL LENGTH(C6) 2.9826E C6 0.914
REL LENGTH(FT) 3.000
REL LENGTH(C6) 11.42
REL LENGTH(FT) 2157.7
REL LENGTH(C6) 167.91
REL LENGTH(FT) 548.19
REL LENGTH(C6) 1.0000
REL LENGTH(FT) 1.0000

CHAN	T/C	Hw/HT	Q/CS	H/HS(L.C.CC)	H/HS(O.907)	H/HS(O.874)	CHAN	T/C	Hw/HT	Q/CS	H/HS(L.C.CC)	H/HS(O.907)	H/HS(O.874)
26	39	0.247	C.0802	C.0802	0.0915	0.0963	39	39	0.246	0.0562	0.0564	0.0643	0.0677
27	40	0.246	C.0752	C.0752	0.0858	0.0903	40	40	0.246	0.0607	0.0607	0.0693	0.0729
28	41	0.247	C.0725	C.0725	0.0827	0.0871	41	41	0.246	0.0663	0.0663	0.0757	0.0797
29	42	0.247	C.0689	C.0689	0.0787	0.0828	42	42	0.246	0.0732	0.0732	0.0835	0.0879
30	43	0.247	C.0665	C.0665	0.0758	0.0798	43	43	0.246	0.0830	0.0830	0.0947	0.0996
31	44	0.247	C.0635	C.0635	0.0725	0.0763	44	44	0.246	0.0962	0.0962	0.1097	0.1155
32	45	0.247	C.0617	C.0617	0.0704	0.0741	45	45	0.246	0.1116	0.1116	0.1273	0.1340
33	46	0.247	C.0595	C.0595	0.0675	0.0714	46	46	0.246	0.1325	0.1325	0.1511	0.1591
34	47	0.247	C.0563	C.0563	0.0642	0.0676	47	47	0.246	0.1556	0.1556	0.1775	0.1868
35	48	0.247	C.0539	C.0539	0.0615	0.0647	48	48	0.246	0.1803	0.1803	0.2057	0.2165
36	49	0.246	C.0526	C.0526	0.0600	0.0632	49	49	0.246	0.2037	0.2037	0.2324	0.2446
37	50	0.246	C.0521	C.0521	0.0595	0.0626	50	50	0.246	0.2230	0.2230	0.2543	0.2677
38		0.246	C.0541	C.0541	0.0617	0.0650							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
 RUN NO. 40

FAW/HT 1.000
 RS(METER) C.3048
 RS(FT) 3.000

PT(ATM) 11.42
 TT(CEG K) 1198.7
 FT(LB/FT) 1.2748E 06

PT(PI) 167.91
 TT(CEG R) 2157.7
 HT(LB/FT) 548.19

REL LENGTH(PI) 3.000
 REL LENGTH(FT) 3.000

CHAN	T/C	IN(DEC K)	TW(DEC R)	W(CM/CM2)	W(BTU/FT2-SEC)	LS(W/CM2)	LS(BTU/FT2-SEC)	ST(0.874)	ST(0.507)	TIME(SEC)
26	26	313.1	563.7	1.129	0.934	14.078	12.404	3.0190E-04	3.1778E-04	0.280
27	27	314.5	564.2	1.056	0.931	14.055	12.385	2.8305E-04	2.9797E-04	0.257
28	28	313.5	565.0	1.020	0.898	14.065	12.394	2.7297E-04	2.8735E-04	0.248
29	29	313.5	565.1	0.970	0.934	14.065	12.393	2.5969E-04	2.7331E-04	0.215
30	30	313.7	564.7	0.935	0.824	14.069	12.396	2.5029E-04	2.6347E-04	0.195
31	31	313.3	564.0	0.994	0.788	14.074	12.402	2.3916E-04	2.5175E-04	0.171
32	32	313.2	563.5	0.868	0.765	14.076	12.402	2.3225E-04	2.4447E-04	0.142
33	33	313.2	563.7	0.837	0.738	14.077	12.404	2.2396E-04	2.3575E-04	0.130
34	34	313.0	563.5	0.793	0.698	14.079	12.406	2.1199E-04	2.2314E-04	0.097
35	35	312.8	563.2	0.759	0.668	14.081	12.408	2.0289E-04	2.1356E-04	0.052
36	36	312.6	563.1	0.741	0.653	14.083	12.409	1.9812E-04	2.0854E-04	0.026
37	37	312.5	562.6	0.734	0.647	14.087	12.413	1.9625E-04	2.0657E-04	0.000
38	38	312.7	561.9	0.762	0.672	14.084	12.410	2.0383E-04	2.1454E-04	0.027
39	39	312.6	561.6	0.795	0.700	14.087	12.412	2.1241E-04	2.2357E-04	0.062
40	40	312.5	562.5	0.856	0.754	14.088	12.413	2.1871E-04	2.4074E-04	0.116
41	41	312.7	562.2	0.935	0.824	14.090	12.415	2.4987E-04	2.8295E-04	0.192
42	42	312.1	561.8	1.021	0.909	14.093	12.418	2.7555E-04	2.9003E-04	0.238
43	43	312.0	561.7	1.170	1.031	14.095	12.420	3.1245E-04	3.2867E-04	0.287
44	44	311.5	561.4	1.356	1.195	14.097	12.421	3.6220E-04	3.8122E-04	0.349
45	45	311.6	560.9	1.574	1.387	14.101	12.425	4.2037E-04	4.4245E-04	0.402
46	46	311.8	561.2	1.868	1.646	14.099	12.424	4.9893E-04	5.2514E-04	0.445
47	47	312.0	561.5	2.094	1.933	14.096	12.421	5.8593E-04	6.1871E-04	0.479
48	48	311.6	561.3	2.542	2.240	14.098	12.422	6.7892E-04	7.1458E-04	0.503
49	49	312.0	561.6	2.872	2.530	14.096	12.421	7.6715E-04	8.0745E-04	0.522
50	50	311.9	561.4	3.143	2.770	14.098	12.421	8.3557E-04	8.8367E-04	0.532

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8286E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 3.14500006 2.8738E 06 3.14500006 2.8738E 06 3.14500006 2.8738E 06 3.14500006 2.8738E 06
 RE/METER REL LENGTH(METER) P(TAT) T(DEC K) HT(JOULE/KG) RS(M/FT) HAW/HT TEST NO. 158
 MACH 3.14500006 2.8738E 06 3.14500006 2.8738E 06 3.14500006 2.8738E 06 3.14500006 2.8738E 06
 RE/FT REL LENGTH(FT) P(TAT) T(DEC K) HT(JOULE/KG) RS(M/FT) HAW/HT TEST NO. 40
 3.14500006 2.8738E 06 3.14500006 2.8738E 06 3.14500006 2.8738E 06 3.14500006 2.8738E 06

CHAN	F/C	TIME(SEC)	W(M/CM2)	U(BTU/FT2-SEC)	Q(SW/CM2)	CS(BTU/FT2-SEC)	STIC(907)	ST(10.874)	TIME(SEC)
51	51	315.1	1.185	1.045	14.479	12.758	3.1301E-04	3.2937E-04	0.201
52	52	316.2	1.127	0.993	14.462	12.743	2.9307E-04	3.1367E-04	0.179
53	53	315.3	1.065	0.939	14.474	12.755	2.8138E-04	2.9609E-04	0.177
54	54	316.0	1.032	0.909	14.465	12.746	2.7272E-04	2.8599E-04	0.134
55	55	316.2	0.981	0.865	14.462	12.745	2.5948E-04	2.7306E-04	0.132
56	56	316.1	0.960	0.853	14.464	12.745	2.5892E-04	2.7247E-04	0.116
57	57	315.1	0.927	0.817	14.463	12.744	2.4510E-04	2.5792E-04	0.099
58	58	316.4	0.891	0.785	14.460	12.741	2.3554E-04	2.4787E-04	0.090
59	59	316.4	0.793	0.795	14.459	12.741	2.3867E-04	2.5116E-04	0.074
60	60	316.8	0.872	0.769	14.452	12.734	2.3079E-04	2.4288E-04	0.080
61	61	317.2	0.896	0.789	14.447	12.730	2.3701E-04	2.4943E-04	0.091
62	62	317.1	0.999	0.792	14.449	12.731	2.3798E-04	2.5045E-04	0.097
63	63	317.2	0.949	0.836	14.446	12.729	2.5116E-04	2.6432E-04	0.117
64	64	317.6	1.075	0.947	14.440	12.723	2.8471E-04	2.9963E-04	0.120
65	65	316.7	1.058	0.932	14.454	12.736	2.7978E-04	2.9443E-04	0.134
66	66	317.3	1.112	0.979	14.437	12.721	2.9439E-04	3.0983E-04	0.108
67	67	318.7	1.180	1.040	14.423	12.708	3.1286E-04	3.2928E-04	0.108
68	68	320.2	1.298	1.143	14.398	12.687	3.4465E-04	3.6277E-04	0.127
69	69	321.7	1.498	1.320	14.376	12.667	3.9802E-04	4.1962E-04	0.151
70	70	322.8	1.761	1.552	14.358	12.651	4.6929E-04	4.9405E-04	0.182
71	71	325.3	2.108	1.857	14.319	12.617	5.6321E-04	5.9301E-04	0.196
72	72	327.1	2.475	2.181	14.291	12.592	6.6269E-04	6.9783E-04	0.179
73	73	328.1	2.712	2.389	14.275	12.579	7.6525E-04	7.6525E-04	0.208
74	74	329.7	2.920	2.573	14.249	12.555	7.8414E-04	8.2586E-04	0.234
75	75	331.1	3.117	2.746	14.227	12.535	8.3852E-04	8.8332E-04	0.253

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7820E-01 (SLUGS/FT2-SEC)

PROBE NO. 3

PRELIMINARY DATA ***

TEST NO. 158
RJA NO. 41

W(S(METER) 1.000
C.3046
HAWHI. CONSTANT SET III
RSLFIL 1.0000

RESEARCH CENTER MCFEET FIELD CALIF.
HT(JOULE/KG) 1.2475E G6
HII(RED/UM) 536.44

PI(PSI) 124.69
II(DEG RI) 2115.6

PI(ATM) 15.28
II(DEG K) 1175.4

REL LENGTH(METER) 4.1257E 06
REL LENGTH(FT) 3.700

REL LENGTH(IN) 0.914
REL LENGTH(CM) 3.700

REL LENGTH(METER) 4.1257E 06
REL LENGTH(FT) 3.700

REL LENGTH(IN) 0.914
REL LENGTH(CM) 3.700

REL LENGTH(METER) 4.1257E 06
REL LENGTH(FT) 3.700

REL LENGTH(IN) 0.914
REL LENGTH(CM) 3.700

REL LENGTH(METER) 4.1257E 06
REL LENGTH(FT) 3.700

REL LENGTH(IN) 0.914
REL LENGTH(CM) 3.700

REL LENGTH(METER) 4.1257E 06
REL LENGTH(FT) 3.700

CHAN	I/C	H/W/HT	C/Q/S	H/HS(I.C00)	H/HS(O.907)	H/HS(O.874)
1	14	0.253	0.0660	0.0660	0.0754	0.0794
2	15	0.254	0.0700	0.0700	0.0799	0.0842
3	16	0.254	0.0774	0.0774	0.0885	0.0932
4	17	0.254	0.0886	0.0886	0.1012	0.106
5	18	0.254	0.1046	0.1046	0.1195	0.1258
6	19	0.254	0.1221	0.1221	0.1395	0.1470
7	20	0.254	0.1418	0.1418	0.1619	0.1706
8	21	0.254	0.1677	0.1677	0.1916	0.2018
9	22	0.254	0.1907	0.1907	0.2179	0.2294
10	23	0.254	0.2153	0.2153	0.2459	0.2590
11	24	0.254	0.2342	0.2342	0.2675	0.2817
12	25	0.254	0.2552	0.2552	0.2915	0.3070
13						

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. 943 PRELIMINARY DATA P-0
 MAGM RG/METER 4.5119E 05 4.1257E 05 4.1257E 05 4.1257E 05
 5.11 4.5119E 05 4.1257E 05 4.1257E 05
 5.11 4.5119E 05 4.1257E 05 4.1257E 05

CHAS. I/C	IM(DEG. K)	IM(DEG. R)	Q(W/MCM2)	Q(HU/FT2-SEC)	Q(SLW/MCM2)	RS(BH/FT2-SEC)	SL(D.927)	SL(D.874)	TIME(SEC)
1	314.6	566.3	1.312	1.156	15.801	13.913	2.6659E-04	2.8C76E-04	0.318
2	315.4	567.8	1.225	1.279	15.78C	13.910	2.4916E-04	2.6242E-04	0.268
3	315.1	567.2	1.175	1.035	15.792	13.915	2.3891E-04	2.5162E-04	0.203
4	315.1	567.1	1.118	0.985	15.793	13.916	2.2728E-04	2.3937E-04	0.170
5	314.9	566.8	1.172	0.944	15.796	13.918	2.1784E-04	2.2942E-04	0.121
6	314.7	566.5	1.127	0.905	15.799	13.921	2.0676E-04	2.1988E-04	0.071
7	314.6	566.4	1.071	0.908	15.801	13.922	2.0505E-04	2.2064E-04	0.049
8	314.6	566.3	1.005	0.885	15.801	13.923	2.0422E-04	2.1508E-04	0.010
9	314.4	565.2	0.975	0.852	15.805	13.924	1.9815E-04	2.0868E-04	-0.014
10	314.4	565.9	0.961	0.847	15.805	13.927	1.9523E-04	2.0563E-04	-0.041
11	314.3	565.7	0.943	0.831	15.808	13.929	1.9146E-04	2.0164E-04	-0.053
12	314.2	565.6	0.941	0.829	15.808	13.929	1.9111E-04	2.0127E-04	-0.056
13	314.4	565.9	1.012	0.892	15.806	13.927	2.0555E-04	2.1648E-04	-0.021
14	314.6	566.2	1.043	0.919	15.802	13.924	2.1193E-04	2.2319E-04	-0.019
15	314.8	566.6	1.102	0.974	15.798	13.920	2.2472E-04	2.3607E-04	-0.030
16	314.7	566.5	1.074	0.978	15.799	13.921	2.2469E-04	2.3619E-04	0.037
17	314.8	566.7	1.099	1.033	15.797	13.919	2.2844E-04	2.3952E-04	0.123
18	315.0	567.0	1.052	1.035	15.794	13.917	2.2583E-04	2.3536E-04	0.219
19	315.0	567.1	1.029	1.000	15.794	13.916	2.2223E-04	2.310E-04	0.305
20	315.1	567.2	1.039	1.073	15.792	13.915	2.2521E-04	2.3493E-04	0.377
21	314.9	566.3	1.050	1.035	15.795	13.918	2.2866E-04	2.3866E-04	0.446
22	315.0	567.1	1.012	1.034	15.794	13.916	2.2239E-04	2.3139E-04	0.504
23	315.2	567.3	1.096	1.096	15.791	13.914	2.3135E-04	2.4135E-04	0.546
24	315.4	568.1	1.257	1.257	15.786	13.910	2.5122E-04	2.72814E-04	0.575
25	315.6	568.1	1.427	1.427	15.783	13.907	2.81937E-04	3.06299E-04	0.592

FREESTREAM DENSITY-VELOCITY PRODUCT = 2.8432E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

TEST NO. 158
RUN NO. 41

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER WDEEII FIELD CALIF. PRELIMINARY DATA ***
 MACH 5-10 REL 4.1257E 06 4.1257E 06 3.300
 RE/METER LENGTH(METER) P(ATM) TT(DEG K) HT(JOULE/KG) S(METER) HAM/HT
 4.519E 06 0.914 15.28 1.475.4 1.2475E 06 1.000
 MACH 5-10 REL 4.1257E 06 4.1257E 06 3.300
 RE/FT LENGTH(FT) P(LBS/IN) TT(DEG R) HT(FU/LBM) S(FT) HAM/HT
 1.3753E 06 4.1257E 06 3.300 24.69 2.115.6 536.44 1.000 1.000

CHAN	I/C	IN(DEC K)	IN(DEC R)	Q(IRM/FT2-SEC)	Q(SIN/CM2)	MS(HI/FT2-SEC)	ST(1.9071)	SLID(RYAL)	TIME(SEC)
26	26	315.6	568.1	1.217	1.072	15.782	13.907	2.4759E-04	0.701
27	27	316.9	570.5	1.338	1.003	15.759	13.886	2.5201E-04	0.771
28	28	316.4	569.6	1.405	0.972	15.768	13.894	2.5202E-04	0.163
29	29	316.3	569.3	1.547	0.922	15.771	13.896	2.5248E-04	0.125
30	30	316.1	569.0	1.705	0.886	15.774	13.899	2.5158E-04	0.100
31	31	315.7	568.3	0.850	0.850	15.780	13.905	2.0682E-04	0.080
32	32	315.6	568.1	0.935	0.823	15.783	13.907	1.9015E-04	0.047
33	33	315.4	567.7	0.905	0.797	15.787	13.911	1.8399E-04	0.026
34	34	315.3	567.6	0.865	0.762	15.788	13.911	1.7587E-04	-0.003
35	35	315.2	567.4	0.845	0.744	15.790	13.913	1.7177E-04	-0.033
36	36	315.3	567.6	0.858	0.756	15.788	13.911	1.7461E-04	-0.026
37	37	315.0	567.1	0.899	0.792	15.791	13.914	1.8253E-04	-0.010
38	38	315.1	567.3	0.890	0.872	15.791	13.914	2.0135E-04	0.059
39	39	315.1	567.2	1.103	0.972	15.792	13.915	2.3625E-04	0.191
40	40	315.1	567.2	1.252	1.103	15.792	13.915	2.5451E-04	0.196
41	41	314.8	566.7	1.443	1.272	15.797	13.920	2.9372E-04	0.269
42	42	314.7	566.5	1.555	1.458	15.799	13.921	3.3634E-04	0.304
43	43	314.7	566.4	1.943	1.712	15.800	13.922	4.1522E-04	0.344
44	44	314.5	566.1	2.107	2.033	15.803	13.924	4.6877E-04	0.395
45	45	314.4	565.9	2.556	2.340	15.805	13.926	5.3960E-04	0.429
46	46	314.5	566.1	3.166	2.702	15.803	13.924	6.2297E-04	0.443
47	47	314.7	566.4	3.469	3.057	15.800	13.922	7.0509E-04	0.468
48	48	314.8	566.7	3.929	3.374	15.798	13.923	7.7827E-04	0.473
49	49	314.9	566.9	4.188	3.502	15.795	13.918	8.3058E-04	0.481
50	50	314.9	566.8	4.542	3.738	15.796	13.919	9.0823E-04	0.476

FREE-STREAM DENSITY-VELOCITY PRODUCT 3.8432E-1 (SLMG/S/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER WCEFFII FIELD CALLE. PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TI(DEG K)	HT(JCULE/KG)	RS(METER)	HAW/HT	TEST NO.	
MACH	RE/FEET	REL LENGTH(FT)	PI(PSL)	TI(DEG RI)	HT(FTU/LRM)	RS(FT)	HAW/HT	RUN NO.	
5.1	4.345E 06	3.9699E 06	0.914	15.28	4.2789E 06	0.348	1.000	158	
5.1C	3.323E 06	3.9699E 06	3.300	224.69	2164.0	1.0000	1.000	41	
CHAN	I/C	IM(DEG K)	IM(DEG RI)	OLN(CM2)	QIRTIU/EI2-SEU1	OSIM/CM2	OSIRTIU/EI2-SEU1	SILO.874)	TIME(SEC)
51	317.3	571.2	1.326	1.168	16.277	14.342	2.6576E-04	2.7980E-04	0.163
52	318.3	572.9	1.262	1.112	16.260	14.327	2.5321E-04	2.6660E-04	0.146
53	317.0	570.6	1.194	1.052	16.284	14.348	2.3933E-04	2.5194E-04	0.137
54	317.7	571.9	1.167	1.028	16.270	14.336	2.3404E-04	2.4641E-04	0.102
55	318.1	572.6	1.122	0.989	16.263	14.330	2.2518E-04	2.3708E-04	0.113
56	318.1	572.6	1.128	0.994	16.263	14.330	2.2624E-04	2.3820E-04	0.096
57	318.1	572.7	1.085	0.956	16.262	14.329	2.1777E-04	2.2928E-04	0.096
58	318.4	573.2	1.055	0.930	16.257	14.325	2.1183E-04	2.2300E-04	0.089
59	318.5	573.3	1.100	0.959	16.256	14.324	2.2079E-04	2.3247E-04	0.083
60	318.8	573.9	1.099	0.968	16.250	14.318	2.2070E-04	2.3238E-04	0.110
61	319.3	574.7	1.179	1.039	16.242	14.311	2.3691E-04	2.4946E-04	0.138
62	319.2	574.5	1.251	1.102	16.244	14.313	2.5130E-04	2.6660E-04	0.163
63	319.4	574.9	1.386	1.222	16.240	14.309	2.7860E-04	2.9335E-04	0.190
64	319.7	575.5	1.647	1.451	16.234	14.304	3.3116E-04	3.4870E-04	0.189
65	318.8	573.8	1.637	1.442	16.251	14.319	3.2871E-04	3.4610E-04	0.171
66	320.1	576.2	1.782	1.570	16.226	14.298	3.5834E-04	3.7733E-04	0.151
67	321.2	578.2	1.947	1.715	16.206	14.280	3.9208E-04	4.1289E-04	0.142
68	322.8	581.1	2.104	1.854	16.177	14.254	4.2464E-04	4.4723E-04	0.132
69	324.6	584.3	2.348	2.049	16.144	14.225	4.7422E-04	5.0023E-04	0.137
70	326.3	587.3	2.622	2.310	16.114	14.198	5.3130E-04	5.5969E-04	0.141
71	328.7	591.7	3.007	2.650	16.069	14.159	6.1114E-04	6.4389E-04	0.151
72	330.9	595.6	3.457	3.046	16.031	14.125	7.0447E-04	7.4232E-04	0.155
73	332.3	598.1	3.615	3.186	16.005	14.102	7.2796E-04	7.7768E-04	0.179
74	334.0	601.2	3.771	3.323	15.973	14.074	7.7181E-04	8.1302E-04	0.214
75	335.7	604.3	3.942	3.474	15.947	14.047	8.0804E-04	8.5173E-04	0.243

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7264E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF.		TEST NO. 158				
REL LENGTH(METER)		RUN NO. 42				
MACH	REL LENGTH(METER)	HT(JOULE/KG)	HAM/HT			
5.10	1.2474E 06	1.2288E 06	1.000			
REL LENGTH(FT)		RS(FT)				
MACH	REL LENGTH(FT)	H/HS(1.000)	H/HS(0.907)			
5.10	1.2474E 06	328.40	1.000			
CHAN	I/C	HW/HT	G/AS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.256	0.0986	0.0591	0.0675	0.0711
2	2	0.256	0.0896	0.0570	0.0651	0.0686
3	3	0.256	0.0856	0.0527	0.0646	0.0670
4	4	0.256	0.0815	0.0539	0.0616	0.0649
5	5	0.256	0.0788	0.0536	0.0612	0.0645
6	6	0.256	0.0754	0.0528	0.0603	0.0636
7	7	0.256	0.0741	0.0516	0.0589	0.0621
8	8	0.256	0.0715	0.0515	0.0589	0.0620
9	9	0.256	0.0689	0.0514	0.0588	0.0619
10	10	0.256	0.0667	0.0508	0.0581	0.0612
11	11	0.256	0.0637	0.0506	0.0578	0.0609
12	12	0.256	0.0598	0.0512	0.0585	0.0616
13	13	0.256	0.0515	0.0512	0.0585	0.0616

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	Y/C	TM(DEG K)	TM(DEG R)	GM/CM2	GIBIU/FT2-SEC	Q5(W/CF2)	Q5(BTU/FT2-SEC)	ST(O.907)	ST(O.874)	TIME(SEC)
1	4	313.0	563.4	0.832	3.733	8.433	7.431	5.7718E-04	6.0799E-04	0.537
2	4	313.5	564.3	0.755	3.666	8.428	7.426	5.2438E-04	5.5240E-04	0.509
3	4	313.5	564.0	0.721	3.636	8.430	7.428	5.6674E-04	5.2748E-04	0.473
4	4	313.4	564.1	0.587	3.605	8.430	7.428	4.7668E-04	5.0214E-04	0.458
5	5	313.3	563.9	0.684	3.585	8.431	7.429	4.6101E-04	4.8563E-04	0.437
6	6	313.1	563.7	0.536	3.550	8.431	7.430	4.6117E-04	4.6472E-04	0.412
7	7	313.2	563.7	0.625	3.531	8.432	7.430	4.3348E-04	4.5662E-04	0.388
8	8	313.1	563.6	0.503	3.531	8.432	7.430	4.1233E-04	4.4056E-04	0.346
9	9	313.0	563.4	0.581	3.512	8.432	7.431	4.2297E-04	4.2448E-04	0.340
10	10	313.0	563.4	0.563	3.496	8.433	7.431	3.9422E-04	4.1126E-04	0.319
11	11	312.9	563.3	0.473	3.473	8.434	7.431	3.7269E-04	3.9258E-04	0.301
12	12	312.9	563.1	0.505	3.442	8.435	7.432	3.4988E-04	3.6866E-04	0.259
13	13	313.0	563.4	0.519	3.457	8.434	7.431	3.6004E-04	3.7926E-04	0.274
14	14	313.0	563.4	0.498	3.439	8.433	7.431	3.4556E-04	3.6402E-04	0.251
15	15	313.2	563.7	0.480	3.423	8.431	7.429	3.2344E-04	3.5124E-04	0.193
16	16	313.0	563.4	0.469	3.414	8.433	7.431	3.2567E-04	3.4305E-04	0.179
17	17	313.0	563.4	0.455	3.401	8.433	7.431	3.1354E-04	3.3239E-04	0.152
18	18	313.1	563.5	0.452	3.398	8.432	7.430	3.1356E-04	3.3030E-04	0.137
19	19	313.1	563.6	0.445	3.392	8.432	7.430	3.0868E-04	3.2537E-04	0.122
20	20	313.1	563.6	0.435	3.383	8.432	7.430	3.0172E-04	3.1783E-04	0.101
21	21	313.1	563.5	0.434	3.383	8.433	7.430	3.0145E-04	3.1749E-04	0.076
22	22	313.1	563.6	0.434	3.382	8.432	7.430	3.0093E-04	3.1700E-04	0.081
23	23	312.9	563.3	0.429	3.378	8.434	7.431	2.9748E-04	3.1336E-04	0.057
24	24	312.0	563.5	0.427	3.376	8.433	7.431	2.9604E-04	3.1184E-04	0.059
25	25	312.9	563.2	0.422	3.380	8.435	7.432	2.9940E-04	3.1538E-04	0.042

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.1472 x 10⁻² (SLUGS/FT2-SEC)

PROBE NO. = 1

MACH 5.10
5.342E 06
1.2474E 06
3.914
4.31
1159.3
1.2288E 06
0.3048
1.000

REL LENGTH(METER)
REL LENGTH(FT)
REL LENGTH(IN)

REL LENGTH(FT)
REL LENGTH(IN)

REL LENGTH(FT)
REL LENGTH(IN)

REL LENGTH(FT)
REL LENGTH(IN)

REL LENGTH(FT)
REL LENGTH(IN)

REL LENGTH(FT)
REL LENGTH(IN)

REL LENGTH(FT)
REL LENGTH(IN)

TEST NO. 128
RUN NO. 42

TEST NO. 128
RUN NO. 42

TEST NO. 128
RUN NO. 42

TEST NO. 128
RUN NO. 42

TEST NO. 128
RUN NO. 42

TEST NO. 128
RUN NO. 42

TEST NO. 128
RUN NO. 42

TEST NO. 128
RUN NO. 42

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MCFEETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH	REL LENGTH	PI(ATM)	HT(FOUR/KG)	RS(METER)	HAM/HT	TEST NO.
5.10	1.351E 06	1.2026E 06	3.914	1184.6	1.2582E 76	0.3048	1.000	158
MACH	REL LENGTH	REL LENGTH	PI(PSI)	HT(FOUR/KG)	RS(FT)	HAM/HT	TEST NO.	
5.10	4.0085E 03	1.2026E 06	3.914	1184.6	1.2582E 76	0.3048	158	
26	0.251	0.0929	0.1061	39	39	0.251	0.0605	0.0727
27	0.251	0.0857	0.0979	40	40	0.251	0.0601	0.0723
28	0.251	0.0812	0.0929	41	41	0.251	0.0594	0.0714
29	0.251	0.0773	0.0882	42	42	0.251	0.0587	0.0706
30	0.251	0.0737	0.0842	43	43	0.251	0.0587	0.0705
31	0.251	0.0707	0.0806	44	44	0.251	0.0590	0.0709
32	0.251	0.0682	0.0778	45	45	0.251	0.0588	0.0707
33	0.251	0.0669	0.0764	46	46	0.251	0.0589	0.0709
34	0.251	0.0651	0.0743	47	47	0.251	0.0579	0.0696
35	0.251	0.0644	0.0736	48	48	0.251	0.0600	0.0721
36	0.251	0.0635	0.0725	49	49	0.251	0.0610	0.0733
37	0.251	0.0626	0.0714	50	50	0.250	0.0620	0.0746
38	0.251	0.0618	0.0706					

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TT(DEG K)	HI(UCULE/KG)	RS(METER)	H/W/HT	TEST NO.																	
5.10	3.55E 06	1.2020E 06	0.924	1.84.0	2.2582E 06	0.3.48	1.000	158																	
MACH	RF/FEI	REL LENGTH(FEI)	PI(PUSI)	TI(DEG R)	HI(BIU/LBM)	RS(FT)	HAW/HT	RUN NO.																	
5.10	4.0786E 06	1.2020E 06	60.37	2132.2	341.7	1.301.0	1.000	42																	
CHAN	I/C	IM(DEX K)	IM(DEX R)	Q(LW/CM2)	Q(BIU/FT2-SEC)	QS(H/CM2)	QS(BIU/FT2-SEC)	ST(C.90T)	ST(I0.874)	TIME(SEC)															
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
314.2	315.0	314.9	315.0	314.8	314.7	314.7	314.6	314.6	314.6	314.6	314.5	314.5	314.4	314.4	314.7	314.5	314.5	314.4	314.3	314.3	314.1	314.0	313.9	313.7	
565.5	567.1	566.8	566.9	566.7	566.4	566.5	566.4	566.4	566.3	566.3	566.0	566.2	566.0	566.0	566.4	566.2	566.1	566.3	565.7	565.7	565.4	565.2	562.1	564.6	
0.807	0.744	0.705	0.671	0.640	0.514	0.592	0.581	0.566	0.560	0.551	0.543	0.537	0.525	0.522	0.516	0.510	0.510	0.510	0.512	0.511	0.512	0.521	0.520	0.539	
7.711	7.656	7.622	7.591	7.564	7.522	7.512	7.498	7.493	7.486	7.479	7.473	7.463	7.460	7.454	7.454	7.449	7.449	7.449	7.451	7.450	7.451	7.443	7.459	7.467	7.475
8.690	8.682	8.683	8.684	8.685	8.686	8.686	8.686	8.686	8.686	8.687	8.687	8.688	8.688	8.688	8.685	8.687	8.687	8.687	8.688	8.689	8.691	8.692	8.693	8.695	
7.657	7.650	7.651	7.652	7.653	7.653	7.653	7.653	7.653	7.653	7.655	7.654	7.655	7.655	7.655	7.653	7.654	7.654	7.654	7.655	7.656	7.657	7.659	7.659	7.662	
5.8181E-04	5.920E-04	4.825E-04	4.5912E-04	4.3802E-04	4.2017E-04	4.302E-04	3.9756E-04	3.6682E-04	3.8273E-04	3.7717E-04	3.7158E-04	3.6711E-04	3.5917E-04	3.3.129E-04	3.5254E-04	3.4872E-04	3.4853E-04	3.4853E-04	3.5020E-04	3.4932E-04	3.5010E-04	3.4394E-04	3.5620E-04	3.6208E-04	3.6654E-04
5.81C3E-04	5.3619E-04	5.0824E-04	4.8346E-04	4.6123E-04	4.4243E-04	4.2648E-04	4.1862E-04	4.0731E-04	4.0301E-04	3.9715E-04	3.9126E-04	3.8656E-04	3.7820E-04	3.7620E-04	3.7132E-04	3.6719E-04	3.6699E-04	3.6699E-04	3.6874E-04	3.6782E-04	3.6864E-04	3.6215E-04	3.7505E-04	3.8125E-04	3.8804E-04
0.358	0.345	0.338	0.318	0.297	0.278	0.240	0.234	0.225	0.227	0.216	0.199	0.196	0.189	0.195	0.195	0.183	0.175	0.180	0.187	0.177	0.192	0.174	0.181	0.189	

FREESTREAM DENSITY-VELOCITY PRODUCT = 1.1284E-1 (SLUGS/FT2-SEC)

PROBE NO. = 2

*** PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ** RS(METER) HAM/HT TEST NO. 138
 MACH 5.17 1.257E 06 1.191E 06 0.924 PI(PSI) 4.51 1209.3 1209.3 1.2672E 06 0.2048 1.000 HAM/HT RUN NO. 42
 MACH 5.10 3.870E 05 1.163E 06 3.000 LE(GI(FT)) 66.27 2176.7 2176.7 553.21 1.0000 1.000 HAM/HT

CHAN	I/C	HM/HT	W/S	H/HS(1.000)	H/HS(3.271)	H/HS(1.874)	I/C	HM/HT	C/LCS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
51	51	0.246	0.0975	0.0902	0.1033	0.1087	64	0.240	0.0651	0.0651	0.0743	0.0782
52	52	0.247	0.0843	0.0843	0.0962	0.1012	65	0.243	0.0583	0.0583	0.0665	0.0700
53	53	0.247	0.0793	0.0793	0.0903	0.0952	66	0.248	0.0567	0.0567	0.0647	0.0682
54	54	0.247	0.0780	0.0780	0.0890	0.0937	67	0.249	0.0545	0.0545	0.0622	0.0655
55	55	0.247	0.0743	0.0743	0.0847	0.0892	68	0.249	0.0522	0.0522	0.0595	0.0623
56	56	0.247	0.0743	0.0743	0.0847	0.0892	69	0.250	0.0518	0.0518	0.0592	0.0622
57	57	0.247	0.0699	0.0699	0.0798	0.0840	70	0.250	0.0517	0.0517	0.0591	0.0622
58	58	0.247	0.0663	0.0663	0.0756	0.0798	71	0.251	0.0547	0.0547	0.0624	0.0657
59	59	0.247	0.0673	0.0673	0.0768	0.0809	72	0.252	0.0580	0.0580	0.0662	0.0698
60	60	0.247	0.0632	0.0632	0.0722	0.0759	73	0.252	0.0560	0.0560	0.0650	0.0684
61	61	0.247	0.0635	0.0635	0.0725	0.0763	74	0.252	0.0579	0.0579	0.0662	0.0697
62	62	0.248	0.0616	0.0616	0.0703	0.0740	75	0.253	0.0570	0.0570	0.0651	0.0686
63	63	0.248	0.0619	0.0619	0.0706	0.0743						

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 VACH 5.1C 1.2597E 00 1.1019E 00 3.000 66.37 2175.7 593.51
 MACH 5.1C 3.971E 05 1.1019E 00 3.000 66.37 2175.7 593.51
 REL LENGTH(METER) PI (ATH) TT (D:G K) HT (JUCLE/KG) RS (METER) PAM/HT TEST NO. 158
 1.2597E 00 1.1019E 00 3.000 66.37 2175.7 593.51 1.2597E 00 1.000 1.000
 REL LENGTH(FT) PI (PSI) TT (DEG R) HT (LBU/LBW) RS (FT) PAM/HT RUN NO. 42
 3.971E 05 1.1019E 00 3.000 66.37 2175.7 593.51 1.000 1.000

CHAN	ITC	IT (DEG K)	IT (DEG R)	Q (M/CM2)	Q (LBM/CM2)	Q (BTU/FT2-SEC)	QS (M/CM2)	QS (BTU/FT2-SEC)	ST (O.874)	ST (O.9C7)	TIME (SEC)
51	51	315.5	567.8	0.339	0.713	7.677	8.940	5.4569E-04	5.7437E-04	0.219	0.219
52	52	316.2	569.1	0.753	0.664	7.871	8.933	5.5818E-04	5.3492E-04	0.204	0.204
53	53	316.0	568.7	0.709	0.624	7.873	8.935	4.7803E-04	5.0318E-04	0.210	0.210
54	54	316.4	569.4	0.697	0.614	7.869	8.931	4.7014E-04	4.9487E-04	0.198	0.198
55	55	316.5	569.7	0.663	0.584	7.868	8.930	4.4778E-04	4.7134E-04	0.191	0.191
56	56	316.2	569.7	0.663	0.584	7.868	8.930	4.4778E-04	4.7134E-04	0.177	0.177
57	57	316.7	570.1	0.624	0.550	7.866	8.927	4.2467E-04	4.4387E-04	0.160	0.160
58	58	316.8	570.2	0.591	0.521	7.865	8.927	3.9542E-04	4.2045E-04	0.144	0.144
59	59	316.8	570.2	0.621	0.520	7.866	8.927	4.0589E-04	4.2722E-04	0.130	0.130
60	60	317.0	570.7	0.564	0.497	7.863	8.924	3.8509E-04	4.0100E-04	0.120	0.120
61	61	317.2	570.9	0.567	0.499	7.862	8.923	3.8288E-04	4.0305E-04	0.115	0.115
62	62	317.2	571.2	0.549	0.484	7.862	8.922	3.7127E-04	3.9083E-04	0.104	0.104
63	63	317.5	571.4	0.552	0.486	7.860	8.920	3.7259E-04	3.9264E-04	0.102	0.102
64	64	317.7	571.8	0.581	0.512	7.858	8.918	3.9255E-04	4.1325E-04	0.072	0.072
65	65	317.7	571.8	0.520	0.458	7.858	8.918	3.5123E-04	3.6974E-04	0.063	0.063
66	66	318.3	572.9	0.506	0.445	7.853	8.912	3.4202E-04	3.6006E-04	0.049	0.049
67	67	318.6	573.5	0.485	0.428	7.850	8.909	3.2857E-04	3.4590E-04	0.043	0.043
68	68	319.5	575.0	0.481	0.409	7.842	8.900	3.1447E-04	3.3108E-04	0.044	0.044
69	69	320.1	576.2	0.461	0.406	7.836	8.894	3.1261E-04	3.2914E-04	0.052	0.052
70	70	320.6	577.1	0.461	0.405	7.832	8.889	3.1198E-04	3.2848E-04	0.063	0.063
71	71	321.9	579.3	0.435	0.428	7.821	8.876	3.2970E-04	3.4717E-04	0.078	0.078
72	72	322.7	580.8	0.414	0.453	7.814	8.868	3.4989E-04	3.6844E-04	0.087	0.087
73	73	322.9	581.2	0.404	0.445	7.812	8.866	3.4316E-04	3.6136E-04	0.107	0.107
74	74	323.6	582.5	0.421	0.452	7.806	8.860	3.4937E-04	3.6797E-04	0.136	0.136
75	75	323.9	583.0	0.405	0.445	7.804	8.856	3.4375E-04	3.6201E-04	0.108	0.108

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.0134E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.1 7.1929E 75 2.1579E 76 3.1000
 REL LENGTH(METER) 8.12 PT(ATM) 1.1853 TT(DEG K) 1.2673E J6
 REL LENGTH(FT) 26.642 PT(PSI) 19.39 TT(DEG R) 2135.4 HI(FTU/LBM) 1.000
 MACH 5.10 7.1929E 75 2.1579E 76 3.1000
 REL LENGTH(METER) 8.12 PT(ATM) 1.1853 TT(DEG K) 1.2673E J6
 REL LENGTH(FT) 26.642 PT(PSI) 19.39 TT(DEG R) 2135.4 HI(FTU/LBM) 1.000
 HAW/HT 1.000
 RS(METER) 0.3048
 RS(FT) 1.000
 TEST NO. 158
 RUN NO. 43
 CONSTANT SET - III

CHAM	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAM	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.251	0.957	0.0881	0.0756	0.0722	14	14	0.251	0.0658	0.0658	0.0752	0.0791
2	2	0.251	0.881	0.0831	0.0756	0.0722	15	15	0.251	0.0669	0.0669	0.0764	0.0804
3	3	0.251	0.831	0.0831	0.0756	0.0722	16	16	0.251	0.0700	0.0700	0.0800	0.0842
4	4	0.251	0.787	0.0831	0.0756	0.0722	17	17	0.251	0.0737	0.0737	0.0842	0.0886
5	5	0.251	0.756	0.0831	0.0756	0.0722	18	18	0.251	0.0811	0.0811	0.0926	0.0975
6	6	0.251	0.722	0.0831	0.0756	0.0722	19	19	0.251	0.0894	0.0894	0.1021	0.1075
7	7	0.251	0.722	0.0831	0.0756	0.0722	20	20	0.251	0.0987	0.0987	0.1127	0.1187
8	8	0.251	0.703	0.0831	0.0756	0.0722	21	21	0.251	0.1137	0.1137	0.1298	0.1367
9	9	0.251	0.677	0.0831	0.0756	0.0722	22	22	0.251	0.1275	0.1275	0.1456	0.1533
10	10	0.251	0.660	0.0831	0.0756	0.0722	23	23	0.251	0.1436	0.1436	0.1639	0.1726
11	11	0.251	0.642	0.0831	0.0756	0.0722	24	24	0.251	0.1591	0.1591	0.1817	0.1913
12	12	0.251	0.642	0.0831	0.0756	0.0722	25	25	0.251	0.1795	0.1795	0.2049	0.2158
13	13	0.251	0.655	0.0831	0.0756	0.0722							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER PGFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 REMETER REL LENGTH(METER): PT(STM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 138
 MACH 5.10 4.535E-06 4.147E-06 0.014 14.22 1122.6 1.1861E-06 0.3978 1.000 RUN NO. 58
 MACH 5.10 1.332E-06 1.145E-06 3.000 20.09 2020.7 510.07 1.0000 HAM/HT 1.000

CHAN	T/L	TR(DEC K)	TR(DEC R)	CR(W/CM2)	CR(TU/FT2-SEC)	CS(W/CM2)	CS(TU/FT2-SEC)	ST(C.507)	ST(0.874)	TIME(SEC)
1	1	306.5	551.7	0.229	0.226	14.390	12.679	6.5231E-06	6.8735E-04	1.179
2	1	308.4	555.2	0.210	0.297	14.356	12.650	2.4691E-05	2.6020E-04	0.865
3	3	309.6	557.3	0.494	0.435	14.335	12.631	1.1103E-04	1.1702E-04	0.577
4	4	310.2	558.3	0.593	0.572	14.325	12.623	1.3339E-04	1.4059E-04	0.288
5	5	310.4	558.6	0.715	0.630	14.321	12.619	1.5096E-04	1.6965E-04	-0.260
6	6	311.2	560.1	0.799	0.734	14.308	12.607	1.8006E-04	1.8979E-04	-0.392
7	7	311.3	560.3	0.952	0.836	14.307	12.606	2.1439E-04	2.2598E-04	-0.251
8	8	312.1	561.8	1.184	1.044	14.292	12.593	2.6716E-04	2.8162E-04	0.144
9	9	312.3	562.1	1.165	1.227	14.288	12.590	2.6294E-04	2.7718E-04	0.180
10	10	311.5	561.5	1.104	0.973	14.295	12.596	2.4899E-04	2.6246E-04	0.185
11	11	311.6	561.4	1.291	1.138	14.296	12.596	2.9113E-04	3.0688E-04	0.209
12	12	312.0	561.4	1.334	1.176	14.294	12.595	3.0094E-04	3.1722E-04	0.275
13	13	310.1	559.3	1.631	1.437	14.316	12.614	3.6733E-04	3.8717E-04	0.352
14	14	310.2	559.3	1.691	1.490	14.316	12.614	3.8085E-04	4.0142E-04	0.402
15	15	308.2	558.4	2.050	1.806	14.325	12.622	4.6129E-04	4.8619E-04	0.450
16	16	308.6	558.1	0.008	-0.307	14.405	12.693	-1.8594E-04	-1.9594E-04	0.326
17	17	305.6	552.0	-0.010	-0.009	14.406	12.694	-2.2790E-06	-2.4012E-05	0.664
18	18	307.3	553.1	0.011	0.010	14.376	12.668	2.4567E-06	2.5088E-06	0.814
19	19	307.9	554.3	0.080	0.071	14.365	12.658	1.8001E-05	1.8969E-05	0.844
20	20	308.6	555.5	0.428	0.377	14.353	12.647	9.6058E-05	1.0123E-04	0.608

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7034E-01 (SLUGS/FT2-SEC)

PROB NO.= 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. ** PRELIMINARY DATA ***
 MACH 5.10 REL PERMETER 2.4636E C6 2.2527E C6 3.914 FT(ATM) 8.17 TT(DEC K) 1160.4 HT(JOULE/KG) 0.3048 KS(PETER) 1.000 HAM/HT TEST NO. 158
 MACH 5.10 REL PERMETER 2.4636E C6 2.2527E C6 3.914 FT(ATM) 8.17 TT(DEC K) 1160.4 HT(JOULE/KG) 0.3048 KS(PETER) 1.000 HAM/HT RUN NO. 55
 MACH 5.10 REL PERMETER 2.4636E C6 2.2527E C6 3.914 FT(ATM) 8.17 TT(DEC K) 1160.4 HT(JOULE/KG) 0.3048 KS(PETER) 1.000 HAM/HT RUN NO. 55
 MACH 5.10 REL PERMETER 2.4636E C6 2.2527E C6 3.914 FT(ATM) 8.17 TT(DEC K) 1160.4 HT(JOULE/KG) 0.3048 KS(PETER) 1.000 HAM/HT RUN NO. 55

CHAN	T/C	TM(DEC K)	TM(DEC R)	CLW/CM2	CLBTU/FT2-SEC	CS(W/CM2)	CS(BTU/FT2-SEC)	CS(HTU/LBM)	ST(0.907)	ST(0.874)	TIME(SEC)
56	71	307.4	551.5	-0.004	-0.003	11.445	10.085	10.085	-2.3739E-06	-1.4466E-06	-1.939
57	72	306.7	552.0	-0.013	-0.012	11.442	10.082	10.082	-5.0461E-06	-5.3132E-06	0.703
58	73	307.1	552.8	-0.007	-0.006	11.426	10.076	10.076	-2.5445E-06	-2.6792E-06	0.790
59	74	307.8	554.0	-0.005	-0.002	11.427	10.069	10.069	-1.0263E-06	-1.0607E-06	1.384
60	75	308.3	555.0	-0.006	-0.005	11.419	10.062	10.062	-2.1759E-06	-2.2913E-06	3.239
61	76	305.1	556.3	-0.006	-0.005	11.430	10.053	10.053	-2.3560E-06	-2.2704E-06	4.076
62	77	305.4	556.8	-0.001	-0.001	11.406	10.050	10.050	-4.7948E-07	-5.0494E-07	14.825
63	78	309.9	557.8	0.015	0.013	11.359	10.044	10.044	5.8355E-06	5.1456E-06	-0.497
64	79	310.7	558.2	0.058	0.051	11.388	10.035	10.035	2.2250E-05	2.3433E-05	0.169
65	80	311.0	558.8	0.302	0.266	11.384	10.031	10.031	1.1537E-04	1.2151E-04	-0.180
66	81	311.6	561.2	0.397	0.350	11.373	10.021	10.021	1.5213E-04	1.6024E-04	-0.857
67	82	312.6	562.6	0.547	0.482	11.363	10.012	10.012	2.0957E-04	2.2075E-04	-0.524
68	83	313.5	564.2	0.570	0.508	11.351	10.002	10.002	2.2102E-04	2.3282E-04	-0.094
69	84	314.0	565.1	0.539	0.475	11.344	9.996	9.996	2.0672E-04	2.1776E-04	-0.107
70	85	315.1	567.2	0.526	0.463	11.329	9.983	9.983	2.0213E-04	2.1295E-04	-0.135
71	86	315.4	567.8	0.492	0.433	11.325	9.979	9.979	1.8504E-04	1.9916E-04	-0.131
72	87	315.0	568.8	0.455	0.436	11.317	9.972	9.972	1.9032E-04	2.0052E-04	-0.152
73	88	317.7	571.8	0.465	0.410	11.295	9.952	9.952	1.7535E-04	1.8898E-04	-0.141
74	89	318.2	573.2	0.509	0.449	11.282	9.941	9.941	1.9661E-04	2.0718E-04	-0.183
75	90	317.3	571.2	0.499	0.439	11.300	9.957	9.957	1.9191E-04	2.0221E-04	-0.248

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0738E-01 (SLUGS/FTZ-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
CHAN	T/C	TW(DES K)	TW(DES R)	CLW/CP2)	(LBTU/FT2-SEC)	CS(W/CP2)	(S(BTU/FT2-SEC)	SI(U.907)	ST(U.874)	TIME(SEC)
1	1	316.2	569.1	1.000	0.881	15.072	13.281	2.0594E-04	2.2124E-04	0.091
2	2	317.2	572.0	0.972	0.85	15.034	13.247	2.0466E-04	2.1574E-04	0.054
3	3	315.5	570.5	0.874	0.593	15.054	13.255	1.4161E-04	1.4927E-04	-0.150
4	4	314.7	568.5	0.220	0.477	15.077	13.285	4.6229E-05	4.6229E-05	-0.013
5	5	313.4	566.4	0.018	0.06	15.100	13.305	3.7716E-06	3.9747E-06	-2.199
6	6	312.4	554.1	0.001	0.001	15.123	13.325	1.6825E-07	1.7729E-07	3.137
7	7	312.4	562.4	-0.005	-0.005	15.140	13.340	-1.2225E-06	-1.2281E-06	1.549
8	8	312.1	561.8	-0.008	-0.007	15.146	13.346	-1.7014E-06	-3.2532E-06	1.576
9	9	312.4	562.4	-0.015	-0.013	15.140	13.340	-3.3504E-06	-3.5305E-06	2.174
10	10	312.2	563.7	-0.016	-0.014	15.126	13.318	-4.5907E-06	-4.8376E-06	2.705
11	11	312.5	565.0	-0.022	-0.019	15.114	13.317	-4.3582E-06	-4.6351E-06	2.617
12	12	314.6	566.2	-0.071	-0.018	15.101	13.306	1.1686E-04	1.2316E-04	0.373
13	13	315.1	567.2	0.557	0.491	15.092	13.298	1.6723E-04	1.7627E-04	-0.408
14	14	316.8	570.3	0.796	0.701	15.061	13.270	2.2668E-04	2.3694E-04	-0.311
15	15	317.5	571.6	1.078	0.950	15.048	13.259	2.6688E-04	2.8313E-04	-0.000
16	16	318.1	572.6	1.276	1.124	15.037	13.250	2.6860E-04	2.8601E-04	0.137
17	17	316.7	572.6	1.243	1.095	15.027	13.241	2.6103E-04	2.7601E-04	0.079
18	18	315.0	574.3	1.122	0.988	15.020	13.235	2.3540E-04	2.4921E-04	0.024
19	19	315.0	572.3	1.015	0.894	15.040	13.252	2.363E-04	2.519E-04	0.071
20	20	317.1	573.8	1.137	1.001	15.055	13.266	2.3895E-04	2.5186E-04	0.248
21	21	315.5	568.0	1.699	1.697	15.084	13.291	3.5658E-04	3.7580E-04	0.236
22	22	317.1	573.8	1.948	1.717	15.055	13.266	4.0936E-04	4.3179E-04	0.216
23	23	316.1	569.0	1.562	1.377	15.073	13.281	3.2805E-04	3.4575E-04	0.611
24	24	314.6	566.7	0.391	0.345	15.097	13.303	8.1974E-05	8.6924E-05	0.680
25	25	314.6	567.5	0.011	0.010	15.135	13.336	1.6696E-02	1.7575E-02	0.691
26	26	315.2	561.5	0.005	0.004	15.145	13.345	1.0206E-06	1.0754E-06	2.319
27	27	315.2	561.6	0.004	0.004	15.145	13.345	3.5016E-07	3.5016E-07	3.295
28	28	315.0	561.6	0.002	0.001	15.118	13.347	2.1667E-07	2.2830E-07	9.759
29	29	315.0	561.6	0.001	0.001	15.149	13.347	1.0040E-06	1.0040E-06	1.642
30	30	312.8	563.0	0.005	0.004	15.134	13.335	9.5284E-07	6.5994E-06	0.844
31	31	313.5	564.0	0.030	0.026	15.120	13.323	6.2627E-06	3.2293E-05	0.888
32	32	313.5	565.4	0.129	0.129	15.113	13.317	3.0645E-05	2.5711E-04	0.540
33	33	314.5	566.8	1.164	1.025	15.095	13.301	2.4396E-04	3.5212E-04	0.196
34	34	315.5	567.8	1.593	1.403	15.085	13.292	3.3411E-04	5.1460E-04	0.248
35	35	315.5	568.5	2.326	2.050	15.078	13.286	4.8827E-04	5.3301E-04	0.350
36	36	316.7	570.0	2.407	2.121	15.063	13.273	5.0570E-04	5.3373E-04	0.341
37	37	316.7	570.1	2.410	2.123	15.062	13.272	5.2639E-04	5.2732E-04	0.380
38	38	317.0	570.6	2.360	2.097	15.058	13.268	5.0629E-04	5.3495E-04	0.392
39	39	317.0	570.6	2.414	2.127	15.057	13.257	5.0753E-04	5.3495E-04	0.392
40	40	317.0	570.6	2.414	2.127	15.057	13.257	5.0753E-04	5.3495E-04	0.392

RS(METER) 1.000
C.3048
K(SIFT) 1.000
HAM/NT 1.000

TEST NC. 158
RUN NO. 53

PT(ATM) 1143.2
PT(PSI) 2057.8
PT(DEC R) 523.33

HT(CUL) 1.2100E-06
HT(DEC R) 523.33
HT(DEC R) 523.33

PT(ATM) 1143.2
PT(PSI) 2057.8
PT(DEC R) 523.33

PT(ATM) 1143.2
PT(PSI) 2057.8
PT(DEC R) 523.33

PT(ATM) 1143.2
PT(PSI) 2057.8
PT(DEC R) 523.33

PT(ATM) 1143.2
PT(PSI) 2057.8
PT(DEC R) 523.33

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 3.0
 REL 2.123E-06
 PACH 3.0
 REL 2.1523E-06
 PACH 3.0
 REL 2.1523E-06

PROBE NO. = 2

TEST NO. 158
 RUN NO. 47

RS(METER) 0.304
 RS(FT) 1.000

PAW/HT 1.000
 PAW/HT 1.000

PT(ATM) 0.27
 FT(PSI) 121.53

TI(DEC K) 1197.3
 TI(DEC F) 2155.1

PI(JULIE/KG) 1.2731E-06
 PI(BTU/LBM) 547.48

STIC(.874) STIC(.907) STIC(1.000)

CPAI	T/C	TI(DEC K)	TI(DEC R)	W(L/CM2)	W(BTU/FT2-SEC)	CS(M/CM2)	CS(BTU/FT-SEC)	STIC(.874)	STIC(.907)	TIME(SEC)
21	61	310.3	558.5	0.607	0.535	11.945	10.569	2.2385E-04	2.3559E-04	-0.010
22	62	311.7	561.0	0.634	0.559	11.976	10.553	2.3415E-04	2.4645E-04	0.054
23	63	306.7	552.3	0.608	0.507	12.041	10.610	6.1352E-07	6.4554E-07	1.293
24	64	307.5	553.5	0.627	0.524	12.032	10.602	2.7717E-06	2.9165E-06	0.784
25	65	306.3	555.0	0.639	0.552	12.021	10.592	9.8478E-06	1.0363E-05	0.433
26	66	305.0	556.2	0.610	0.497	12.012	10.584	2.1551E-05	2.2678E-05	0.352
27	67	305.0	557.6	0.610	0.497	12.012	10.584	4.0332E-05	4.2496E-05	0.387
28	68	305.0	557.6	0.610	0.497	12.012	10.584	1.4838E-04	1.5637E-04	0.096
29	69	-0.0	-0.0	*****	*****	*****	*****	3.0546E-02	3.1106E-02	0.669
30	70	310.7	559.3	0.556	0.525	11.989	10.564	2.1974E-04	2.3127E-04	-0.311
31	71	311.4	560.5	0.631	0.556	11.990	10.556	2.3305E-04	2.4529E-04	0.007
32	72	311.5	560.7	0.606	0.534	11.978	10.554	2.2359E-04	2.3533E-04	-0.010
33	73	311.8	561.5	0.620	0.546	11.973	10.550	2.2897E-04	2.4100E-04	0.032
34	74	-0.0	-0.0	*****	*****	*****	*****	3.0546E-02	3.1106E-02	0.669
35	75	310.3	558.6	0.608	0.535	11.994	10.568	2.2339E-04	2.3574E-04	0.007
36	76	307.3	557.2	0.609	0.508	12.027	10.537	3.4265E-06	3.6056E-06	0.271
37	77	308.3	555.2	0.663	0.606	12.019	10.590	2.3320E-05	2.4541E-05	0.593
38	78	309.1	556.3	0.629	0.573	12.011	10.583	9.8950E-05	1.0403E-04	0.359
39	79	309.6	557.2	0.606	0.558	12.004	10.578	1.4559E-04	1.5743E-04	-0.092
40	80	311.1	558.1	0.554	0.488	11.999	10.572	2.0400E-04	2.1469E-04	-0.232
41	81	311.1	560.0	0.622	0.548	11.984	10.559	2.2957E-04	2.4162E-04	0.054
42	82	311.5	560.7	0.595	0.524	11.978	10.555	2.1959E-04	2.3113E-04	0.042
43	83	311.5	561.4	0.616	0.543	11.973	10.550	2.2747E-04	2.3942E-04	0.026
44	84	311.6	561.2	0.638	0.552	11.974	10.551	2.3544E-04	2.4781E-04	0.054
45	85	310.3	558.5	0.642	0.566	11.995	10.559	2.3669E-04	2.4911E-04	0.043
46	86	307.5	554.3	0.611	0.509	12.026	10.597	3.9398E-06	4.1458E-06	-0.131
47	87	308.5	556.0	0.658	0.601	12.013	10.585	2.1361E-05	2.2479E-05	0.506
48	88	309.5	557.0	0.689	0.637	12.006	10.579	9.6990E-05	1.0418E-04	0.434
49	89	310.1	558.2	0.648	0.412	11.997	10.571	1.7232E-04	1.8135E-04	-0.186
50	90	310.4	558.7	0.553	0.523	11.993	10.567	2.1672E-04	2.3019E-04	-0.209
51	91	310.8	559.5	0.656	0.578	11.988	10.563	2.4210E-04	2.5480E-04	0.059
52	92	311.0	559.8	0.610	0.538	11.985	10.560	2.2515E-04	2.3696E-04	0.024
53	93	310.6	559.0	0.645	0.569	11.991	10.566	2.3798E-04	2.5047E-04	0.055
54	94	310.5	559.6	0.639	0.583	11.987	10.562	2.3585E-04	2.4823E-04	0.045
55	95	310.5	558.9	0.680	0.599	11.992	10.566	2.5561E-04	2.6376E-04	0.055

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0451E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JPLS RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	Y/C	IN (DEG K)	IN (DEG R)	G (M/CM2)	G (W/CM2)	(R)TU/FT2-SEC	(S)W/CM2	(S)RTU/FT2-SEC	ST (0.907)	ST (0.874)	TIME (SEC)
56	41	313.5	564.3	1.095	16.039	0.965	14.133	2.2264E-04	2.3439E-04	2.3439E-04	0.052
57	42	314.4	565.9	1.113	16.024	0.981	14.119	2.2657E-04	2.3854E-04	2.3854E-04	0.029
58	43	313.7	564.6	1.012	16.036	0.892	14.130	2.0597E-04	2.1684E-04	2.1684E-04	-0.076
59	44	312.4	562.4	0.339	16.059	0.299	14.150	6.8952E-05	7.2586E-05	7.2586E-05	0.319
60	45	311.8	561.2	0.080	16.071	0.070	14.161	1.6207E-05	1.7060E-05	1.7060E-05	0.211
61	46	313.5	563.9	0.004	16.094	0.003	14.191	7.9533E-07	8.3713E-07	8.3713E-07	-1.923
62	47	309.6	557.3	-0.013	16.110	-0.012	14.195	-2.7020E-06	-2.8439E-06	-2.8439E-06	0.481
63	48	309.0	556.1	-0.023	16.122	-0.020	14.206	-4.5984E-06	-4.8397E-06	-4.8397E-06	0.495
64	49	309.1	556.4	-0.015	16.119	-0.013	14.203	-2.9639E-06	-3.1194E-06	-3.1194E-06	0.195
65	50	308.7	555.7	0.008	16.126	0.007	14.209	1.5546E-06	1.6783E-06	1.6783E-06	1.542
66	51	309.6	557.2	0.045	16.111	0.038	14.196	8.7461E-06	9.2054E-06	9.2054E-06	0.565
67	52	310.5	559.0	0.147	16.093	0.129	14.180	2.9739E-05	3.1302E-05	3.1302E-05	0.394
68	53	312.0	561.5	0.311	16.067	0.274	14.158	1.6672E-04	1.7550E-04	1.7550E-04	0.338
69	54	312.8	563.1	1.244	16.051	1.096	14.143	2.5273E-04	2.6606E-04	2.6606E-04	-0.279
70	55	313.6	564.5	1.535	16.037	1.353	14.131	3.1229E-04	3.2877E-04	3.2877E-04	-0.194
71	56	314.7	566.4	1.768	16.018	1.503	14.114	3.4744E-04	3.6580E-04	3.6580E-04	0.132
72	57	315.2	567.3	1.601	16.009	1.411	14.106	3.2632E-04	3.4358E-04	3.4358E-04	0.124
73	58	315.1	567.1	1.573	16.011	1.386	14.108	3.2048E-04	3.3742E-04	3.3742E-04	0.131
74	59	314.8	566.6	1.743	16.016	1.536	14.113	3.5510E-04	3.7387E-04	3.7387E-04	0.140
75	60	313.7	564.7	1.911	16.035	1.634	14.129	3.8876E-04	4.0928E-04	4.0928E-04	0.184

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7551E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

WIND VELOCITY (METER) 1.000
 WIND VELOCITY (FT) 1.000
 WIND VELOCITY (METER) 1.000
 WIND VELOCITY (FT) 1.000

WIND VELOCITY (METER) 1.000
 WIND VELOCITY (FT) 1.000

WIND VELOCITY (METER) 1.000
 WIND VELOCITY (FT) 1.000

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WIND VELOCITY (METER) 1.000
 WIND VELOCITY (FT) 1.000

WIND VELOCITY (METER) 1.000
 WIND VELOCITY (FT) 1.000

WIND VELOCITY (METER) 1.000
 WIND VELOCITY (FT) 1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

CPAT	TZC	TR (DEC KI)	TR (CM2)	W (M/CM2)	W (FT/FT2-SEC)	CS (M CM2)	CS (BTU/FT2-SEC)	CS (BTU/FT2-SEC)	STIC (907)	STIC (874)	TIME (SEC)
21	61	210.3	0.807	0.535	11.945	10.569	2.2859E-04	2.3559E-04	2.3559E-04	2.3559E-04	-0.010
22	62	211.7	0.534	0.559	11.976	10.553	2.3415E-04	2.4645E-04	2.4645E-04	2.4645E-04	0.054
23	63	208.4	0.602	0.501	12.047	10.615	6.1352E-07	6.4554E-07	6.4554E-07	6.4554E-07	1.293
24	64	206.8	0.308	0.507	12.041	10.610	2.7717E-06	2.9165E-06	2.9165E-06	2.9165E-06	0.784
25	65	207.5	0.027	0.324	12.032	10.602	9.8478E-06	1.0363E-05	1.0363E-05	1.0363E-05	0.433
26	66	206.3	0.039	0.052	12.021	10.592	2.1551E-05	2.2678E-05	2.2678E-05	2.2678E-05	0.352
27	67	205.0	0.110	0.097	12.012	10.584	4.0382E-05	4.2490E-05	4.2490E-05	4.2490E-05	0.387
28	68	209.8	0.403	0.355	12.002	10.575	1.4838E-04	1.5637E-04	1.5637E-04	1.5637E-04	0.096
29	69	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	0.689
30	70	210.7	0.556	0.525	11.989	10.564	2.1974E-04	2.3127E-04	2.3127E-04	2.3127E-04	-0.311
31	71	211.4	0.631	0.556	11.980	10.556	2.3305E-04	2.4529E-04	2.4529E-04	2.4529E-04	0.007
32	72	211.5	0.606	0.534	11.978	10.554	2.2359E-04	2.3533E-04	2.3533E-04	2.3533E-04	-0.010
33	73	211.5	0.620	0.546	11.973	10.550	2.2897E-04	2.4100E-04	2.4100E-04	2.4100E-04	0.032
34	74	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	0.800
35	75	210.3	0.608	0.535	11.994	10.568	2.2359E-04	2.3574E-04	2.3574E-04	2.3574E-04	0.007
36	76	207.5	0.909	0.608	12.027	10.597	3.7265E-06	3.6056E-06	3.6056E-06	3.6056E-06	0.271
37	77	208.5	0.263	0.256	12.019	10.590	2.3200E-05	2.4541E-05	2.4541E-05	2.4541E-05	0.593
38	78	209.1	0.269	0.237	12.011	10.583	9.8950E-05	1.0403E-04	1.0403E-04	1.0403E-04	0.359
39	79	209.6	0.467	0.358	12.004	10.578	1.4559E-04	1.5743E-04	1.5743E-04	1.5743E-04	-0.092
40	80	210.1	0.554	0.488	11.998	10.572	2.0400E-04	2.1469E-04	2.1469E-04	2.1469E-04	-0.232
41	81	211.1	0.622	0.548	11.994	10.559	2.2957E-04	2.4162E-04	2.4162E-04	2.4162E-04	0.054
42	82	211.5	0.595	0.524	11.978	10.555	2.1955E-04	2.3113E-04	2.3113E-04	2.3113E-04	0.342
43	83	211.5	0.516	0.543	11.973	10.550	2.2747E-04	2.3942E-04	2.3942E-04	2.3942E-04	0.026
44	84	211.8	0.638	0.552	11.974	10.551	2.3544E-04	2.4781E-04	2.4781E-04	2.4781E-04	0.054
45	85	210.2	0.642	0.566	11.995	10.569	2.3669E-04	2.4911E-04	2.4911E-04	2.4911E-04	0.343
46	86	207.5	0.311	0.309	12.026	10.597	3.9398E-06	4.1458E-06	4.1458E-06	4.1458E-06	-0.131
47	87	202.5	0.058	0.051	12.013	10.585	2.1361E-05	2.2479E-05	2.2479E-05	2.2479E-05	0.506
48	88	209.5	0.269	0.237	12.006	10.579	9.8990E-05	1.0418E-04	1.0418E-04	1.0418E-04	0.434
49	89	210.1	0.468	0.412	11.997	10.571	1.7232E-04	1.8135E-04	1.8135E-04	1.8135E-04	-0.186
50	90	210.4	0.593	0.523	11.993	10.567	2.1672E-04	2.3019E-04	2.3019E-04	2.3019E-04	-0.209
51	91	210.8	0.656	0.578	11.988	10.563	2.4210E-04	2.5480E-04	2.5480E-04	2.5480E-04	0.059
52	92	211.0	0.610	0.538	11.985	10.560	2.2515E-04	2.3696E-04	2.3696E-04	2.3696E-04	0.324
53	93	210.6	0.645	0.569	11.991	10.566	2.3798E-04	2.5047E-04	2.5047E-04	2.5047E-04	0.055
54	94	210.5	0.639	0.563	11.987	10.562	2.3585E-04	2.4823E-04	2.4823E-04	2.4823E-04	0.045
55	95	210.5	0.680	0.599	11.992	10.566	2.4061E-04	2.6376E-04	2.6376E-04	2.6376E-04	0.055

FREESTREAM DENSITY-VELOCITY PRODUCT = 2.0451E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

TEST NO. 158
RUN NO. 47

REL LENGTH (METER) 2.1623E C6
REL LENGTH (FT) 7.0770
REL LENGTH (CM) 2.1623E C5
REL LENGTH (IN) 8.5327

REL LENGTH (METER) 1.2731E C6
REL LENGTH (FT) 4.1760
REL LENGTH (CM) 1.2731E C5
REL LENGTH (IN) 5.0122

REL LENGTH (METER) 1.2731E C6
REL LENGTH (FT) 4.1760
REL LENGTH (CM) 1.2731E C5
REL LENGTH (IN) 5.0122

REL LENGTH (METER) 1.2731E C6
REL LENGTH (FT) 4.1760
REL LENGTH (CM) 1.2731E C5
REL LENGTH (IN) 5.0122

REL LENGTH (METER) 1.2731E C6
REL LENGTH (FT) 4.1760
REL LENGTH (CM) 1.2731E C5
REL LENGTH (IN) 5.0122

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION NASA RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 4.55793 06 2.15795 06 7.19295 06
 RE/METER REL LENGTH(METERS) PI(TATM) TT(100 K) HT(JOULE/KG) S(METER) HAM/HT TEST NO. 158
 MACH 5.10 4.55793 06 2.15795 06 7.19295 06 1.000 1.000 1.000 1.000 1.000 1.000
 SE/ET REL LENGTH(FT) PI(PSI) TT(100 LB) HT(LB/FT) S(FT) HAM/HT PUN NO. 43

CHAN	I/C	IM(100 K)	IM(1000 K)	Q(W/CM2)	Q(STU/FT2-SEC)	Q(STU/FT2-SEC)	USHTU/FT2-SEC)	ST(10.874)	TIME(SEC)
1	1	314.6	566.3	1.17	11.84	10.287	4.2413E-04	4.4659E-04	0.470
2	2	315.5	568.1	1.23	12.05	10.277	3.9073E-04	4.1141E-04	0.429
3	3	315.3	557.5	1.25	11.84	10.279	3.5288E-04	3.8780E-04	0.367
4	4	315.4	557.7	1.25	11.84	10.278	3.4898E-04	3.6748E-04	0.330
5	5	315.3	567.6	1.25	11.84	10.279	3.3527E-04	3.5306E-04	0.300
6	6	315.2	567.3	1.25	11.84	10.281	3.2013E-04	3.3709E-04	0.270
7	7	315.2	567.4	1.25	11.84	10.281	3.1528E-04	3.3705E-04	0.253
8	8	315.2	567.3	1.25	11.84	10.281	3.1152E-04	3.2802E-04	0.225
9	9	315.0	567.2	1.25	11.84	10.283	3.0168E-04	3.1606E-04	0.210
10	10	315.0	567.0	1.25	11.84	10.283	2.9273E-04	3.0823E-04	0.187
11	11	314.9	566.8	1.25	11.84	10.284	2.8458E-04	2.9965E-04	0.185
12	12	314.8	566.8	1.25	11.84	10.284	2.7745E-04	2.9876E-04	0.185
13	13	314.9	566.8	1.25	11.84	10.284	2.7054E-04	2.9593E-04	0.174
14	14	314.9	566.8	1.25	11.84	10.284	2.6384E-04	2.9184E-04	0.175
15	15	315.0	566.9	1.25	11.84	10.283	2.5735E-04	2.8662E-04	0.135
16	16	314.7	566.5	1.25	11.84	10.286	2.5115E-04	2.8095E-04	0.162
17	17	314.7	566.4	1.25	11.84	10.287	2.4525E-04	2.7524E-04	0.177
18	18	314.7	566.3	1.25	11.84	10.286	2.3965E-04	2.6959E-04	0.217
19	19	314.7	566.4	1.25	11.84	10.286	2.3435E-04	2.6404E-04	0.269
20	20	314.6	566.3	1.25	11.84	10.287	2.2935E-04	2.5859E-04	0.308
21	21	314.6	566.2	1.25	11.84	10.288	2.2465E-04	2.5334E-04	0.355
22	22	314.6	566.2	1.25	11.84	10.288	2.2025E-04	2.4829E-04	0.407
23	23	314.4	566.0	1.25	11.84	10.290	2.1615E-04	2.4344E-04	0.446
24	24	314.5	566.2	1.25	11.84	10.288	2.1235E-04	2.3879E-04	0.480
25	25	314.5	566.0	1.25	11.84	10.289	2.0885E-04	2.3434E-04	0.509

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.0216E-1 (SLUGS/FT2-SEC)

PROBE NO. = 1

C-4

PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 43

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFLETT FIELD CALIF. ***
 TEST NO. 158
 RUN NO. 43

REL LENGTH (METER) PI(ATP) TT (DEG K) HT (JULE/KG) H/W/HT
 0.256E 06 0.914 0.2 1217.0 1.2982E 06 0.3748 1.000

REL LEV (FEET) PI(PSI) TT (DEG R) HT (BTU/LBM) H/W/HT
 5.00 19.39 2190.6 557.43 1.000

Q/US H/HS(A/G) H/HS(U/90Z) H/HS(C/874)
 0.8988E 00 2.0586E 06 5.00 19.39 2190.6 557.43

Q/US H/HS(A/G) H/HS(U/90Z) H/HS(C/874)
 0.8988E 00 2.0586E 06 5.00 19.39 2190.6 557.43

Q/US H/HS(A/G) H/HS(U/90Z) H/HS(C/874)
 0.8988E 00 2.0586E 06 5.00 19.39 2190.6 557.43

Q/US H/HS(A/G) H/HS(U/90Z) H/HS(C/874)
 0.8988E 00 2.0586E 06 5.00 19.39 2190.6 557.43

Q/US H/HS(A/G) H/HS(U/90Z) H/HS(C/874)
 0.8988E 00 2.0586E 06 5.00 19.39 2190.6 557.43

CHAN	T/C	H/W/HT	Q/US	H/HS(A/G)	H/HS(U/90Z)	H/HS(C/874)	CHAN	T/C	H/W/HT	C/G/S	H/W/HT	H/HS(C/907)	H/HS(C/874)
26	26	0.245	0.0824	0.0940	0.0940	0.0940	39	39	0.245	0.0824	0.0854	0.0757	0.0900
27	27	0.245	0.0763	0.0763	0.0763	0.0763	40	40	0.245	0.0750	0.0750	0.0856	0.0900
28	28	0.245	0.0730	0.0730	0.0730	0.0730	41	41	0.245	0.0851	0.0851	0.0970	0.1021
29	29	0.245	0.0695	0.0695	0.0695	0.0695	42	42	0.245	0.0974	0.0974	0.1110	0.1168
30	30	0.245	0.0673	0.0673	0.0673	0.0673	43	43	0.245	0.1133	0.1133	0.1292	0.1360
31	31	0.245	0.0646	0.0646	0.0646	0.0646	44	44	0.244	0.1310	0.1310	0.1493	0.1572
32	32	0.245	0.0627	0.0627	0.0627	0.0627	45	45	0.244	0.1492	0.1492	0.1702	0.1791
33	33	0.245	0.0580	0.0580	0.0580	0.0580	46	46	0.244	0.1709	0.1709	0.1949	0.2051
34	34	0.245	0.0560	0.0560	0.0560	0.0560	47	47	0.244	0.1862	0.1862	0.2124	0.2235
35	35	0.245	0.0552	0.0552	0.0552	0.0552	48	48	0.244	0.2135	0.2135	0.2435	0.2562
36	36	0.245	0.0551	0.0551	0.0551	0.0551	49	49	0.244	0.2290	0.2290	0.2611	0.2747
37	37	0.245	0.0561	0.0561	0.0561	0.0561	50	50	0.244	0.2395	0.2395	0.2731	0.2874
38	38	0.245	0.0504	0.0504	0.0504	0.0504							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.2594E 06 2.056 E 06 3.314 3.12 1217.0 1.292E 06 0.3748 1.000 TEST NO. 158
 RE/METER RFL LENGTH(METER) PI(ATM) TI(DEC K) HT(JOULE/KG) PS(METER) HAM/HT RUN NO. 43
 MACH REFET REF LENGTH REF PI(251) TI(DEC K) HI(BIU/LBM) RS(FT) HAM/HT 1.000
 5.10 0.8868E C5 2.0665E 06 3.205 119.39 2195.6 557.40 1.0000

CHAN	I/C	TM(DEC K)	IM(DEC R)	Q(W/CM2)	Q(BIU/FT2-SEC)	QS(W/CM2)	Q(BIU/FT2-S C)	ST(0.874)	TIME(SEC)
26	27	316.0	568.9	0.996	0.878	12.094	3.7194E-04	3.9145E-04	0.277
27	27	317.3	571.1	0.922	0.612	12.076	3.4457E-04	3.6267E-04	0.255
28	28	317.0	572.6	0.839	0.777	12.080	3.3463E-04	3.4670E-04	0.240
29	29	317.1	570.6	0.813	0.716	12.082	3.1366E-04	3.3014E-04	0.213
30	30	317.0	570.6	0.785	0.687	12.082	3.0373E-04	3.1968E-04	0.202
31	31	316.7	570.3	0.757	0.667	12.084	2.9143E-04	3.0679E-04	0.177
32	32	316.8	570.1	0.734	0.647	12.085	2.7427E-04	2.9781E-04	0.150
33	33	316.7	570.0	0.706	0.618	12.085	2.6296E-04	2.8567E-04	0.127
34	34	316.6	569.9	0.677	0.597	12.085	2.5049E-04	2.7564E-04	0.105
35	35	316.6	569.8	0.657	0.588	12.086	2.4420E-04	2.6631E-04	0.078
36	36	316.5	569.4	0.628	0.558	12.089	2.3361E-04	2.6065E-04	0.058
37	37	316.2	569.2	0.599	0.544	12.088	2.2481E-04	2.5644E-04	0.101
38	38	316.4	569.0	0.570	0.528	12.092	2.1788E-04	2.5300E-04	0.154
39	39	316.1	568.8	0.543	0.508	12.092	2.1208E-04	2.5044E-04	0.222
40	40	316.1	568.9	0.527	0.499	12.093	2.0708E-04	2.4842E-04	0.275
41	41	316.1	568.9	0.529	0.906	12.093	2.0350E-04	2.4625E-04	0.314
42	42	315.3	568.4	0.518	0.838	12.096	2.0148E-04	2.4430E-04	0.353
43	43	315.6	568.1	0.514	0.808	12.099	2.0020E-04	2.4289E-04	0.387
44	44	315.4	567.7	0.505	0.796	12.102	2.0000E-04	2.4200E-04	0.418
45	45	315.1	567.1	0.506	0.792	12.105	2.0000E-04	2.4180E-04	0.441
46	46	315.1	567.1	2.169	1.823	12.105	2.0000E-04	2.4180E-04	0.480
47	47	314.8	566.7	2.255	1.987	12.109	2.0000E-04	2.4180E-04	0.472
48	48	314.8	566.6	2.386	2.278	12.110	2.0000E-04	2.4180E-04	0.481
49	49	314.7	566.5	2.773	2.543	12.110	2.0000E-04	2.4180E-04	0.481
50	50	314.5	566.2	2.904	2.550	12.114	2.0000E-04	2.4180E-04	0.480

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.9874E-01 (SLUGS/FT2-SEC)

PROBE NO. = ?

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 15R
 RUN NO. 43

MACH	REL LENGTH (METER)	PT (ATM)	TT (DEG K)	HT (Joule/KG)	RS (METER)	RAM/HT	TEST NO.	RS (METER)	RS (FI)	RAM/HT	TEST NO.
5.10	1.9874E 06	0.924	8.12	1.3290E 06	0.3548	1.000	15R	0.3548	0.0016	1.000	43
MACH	REL LENGTH (METER)	PT (PSI)	TT (DEG R)	HT (Joule/LBM)	RS (FI)	RAM/HT					
5.10	1.9874E 06	119.39	2240.8	571.51	1.0016	1.000					

CHAN	T/C	HM/HT	Q/QS	H/HSLA(0.00)	H/HSLA(0.874)	H/HSLA(0.907)	H/HSLA(1.000)	H/HSLA(0.874)	H/HSLA(0.907)	H/HSLA(1.000)
51	51	0.240	0.0812	0.0812	0.0925	0.0973	0.0734	0.0734	0.0836	0.0880
52	52	0.240	0.0772	0.0772	0.0880	0.0925	0.0719	0.0719	0.0819	0.0862
53	53	0.240	0.0732	0.0732	0.0877	0.0877	0.0771	0.0771	0.0879	0.0925
54	54	0.241	0.0715	0.0715	0.0857	0.0857	0.0837	0.0837	0.0954	0.1004
55	55	0.241	0.0670	0.0670	0.0803	0.0803	0.0921	0.0921	0.1050	0.1105
56	56	0.241	0.0665	0.0665	0.0797	0.0797	0.1058	0.1058	0.1207	0.1271
57	57	0.241	0.0626	0.0626	0.0751	0.0751	0.1225	0.1225	0.1397	0.1471
58	58	0.241	0.0600	0.0600	0.0719	0.0719	0.1452	0.1452	0.1657	0.1744
59	59	0.242	0.0612	0.0612	0.0698	0.0698	0.1734	0.1734	0.1979	0.2083
60	60	0.242	0.0587	0.0587	0.0669	0.0669	0.1835	0.1835	0.2093	0.2204
61	61	0.242	0.0602	0.0602	0.0685	0.0685	0.1964	0.1964	0.2241	0.2359
62	62	0.242	0.0623	0.0623	0.0687	0.0687	0.2060	0.2060	0.2352	0.2476
63	63	0.242	0.0640	0.0640	0.0729	0.0729	0.2060	0.2060	0.2352	0.2476

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCGRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 2.15735 06 2.15735 06 2.15735 06 2.15735 06
 RE/PI 7.19295 05 7.19295 05 7.19295 05 7.19295 05
 REL LENGTH(METER) 567.0 567.0 567.0 567.0
 LENGTH(IN) 22.323 22.323 22.323 22.323
 PI(ATM) 0.12 0.12 0.12 0.12
 TT(DIG K) 1188.3 1188.3 1188.3 1188.3
 HI(JOULE/KG) 1.26 1.26 1.26 1.26
 HI(BTU/LBM) 541.95 541.95 541.95 541.95
 RS(FI) 1.00 1.00 1.00 1.00
 HAW/HT 1.000 1.000 1.000 1.000
 TEST NO. 158
 RUN NO. 43

CHAN	I/G	IM(DIG K)	IM(DIG R)	QIN(CM2)	G(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	314.6	566.3	1.17	0.284	11.675	10.287	4.2413E-04	4.4659E-04	0.470
2	2	315.5	568.1	1.23	0.303	11.663	10.277	3.9073E-04	4.1141E-04	0.429
3	3	315.3	567.5	1.23	0.304	11.666	10.279	3.6328E-04	3.8180E-04	0.367
4	4	315.4	567.7	1.23	0.309	11.665	10.278	3.4898E-04	3.6748E-04	0.333
5	5	315.3	567.6	1.23	0.318	11.665	10.279	3.3527E-04	3.5306E-04	0.305
6	6	315.3	567.6	1.23	0.322	11.666	10.281	3.2013E-04	3.3705E-04	0.273
7	7	315.2	567.4	1.23	0.342	11.667	10.280	3.0098E-04	3.2802E-04	0.259
8	8	315.2	567.3	1.23	0.368	11.668	10.281	3.1152E-04	3.2802E-04	0.226
9	9	315.0	567.2	1.23	0.392	11.670	10.282	3.1165E-04	3.1566E-04	0.213
10	10	315.0	567.0	1.23	0.419	11.670	10.283	2.9473E-04	3.0823E-04	0.187
11	11	314.9	566.8	1.23	0.447	11.672	10.284	2.7458E-04	2.9965E-04	0.180
12	12	314.8	566.8	1.23	0.477	11.673	10.284	2.5374E-04	2.9878E-04	0.185
13	13	314.9	566.8	1.23	0.509	11.671	10.284	2.3054E-04	2.9593E-04	0.174
14	14	314.9	566.8	1.23	0.544	11.671	10.284	2.0904E-04	3.0730E-04	0.175
15	15	315.2	566.9	1.23	0.588	11.670	10.283	1.8962E-04	3.1233E-04	0.136
16	16	314.7	566.5	1.23	0.618	11.673	10.286	1.7121E-04	3.2695E-04	0.162
17	17	314.7	566.4	1.23	0.651	11.675	10.287	1.5493E-04	3.4425E-04	0.177
18	18	314.7	566.2	1.23	0.684	11.674	10.286	1.4025E-04	3.7859E-04	0.217
19	19	314.7	566.4	1.23	0.720	11.674	10.286	1.2731E-04	4.1734E-04	0.264
20	20	314.6	566.3	1.23	0.759	11.675	10.287	1.1615E-04	4.6098E-04	0.308
21	21	314.6	566.2	1.23	0.801	11.676	10.288	1.0628E-04	5.0995E-04	0.355
22	22	314.6	566.2	1.23	0.847	11.676	10.288	9.7542E-05	5.7535E-04	0.407
23	23	314.4	566.0	1.23	0.897	11.678	10.290	8.9266E-05	6.7036E-04	0.446
24	24	314.5	566.2	1.23	0.958	11.676	10.288	8.1262E-05	7.4237E-04	0.480
25	25	314.5	566.0	1.23	1.029	11.677	10.289	7.3587E-05	8.3800E-04	0.506

FREESTREAM DENSITY-VELOCITY PRODUCT = 0.2716E-11 (SLUGS/FT2-SEC)

PROB NO. = 1

C-4

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 43

MACH	REL LENGTH (MFLOR)	PI (ATM)	TT (DEG K)	HI (DUDE/AC)	RS (MLIER)	HM/HT	TEST NO.
5.1	2.284E 06	5.914	1217.0	1.2962E 06	0.5748	1.000	43
MACH	REL LENGTH (EI)	PI (PSI)	TT (DEG R)	HI (TU/LBM)	RS (FI)	HM/HT	
5.10	6.8868E 06	3.000	2190.6	557.64	1.0000	1.000	
CHAN	T/C	HM/HT	G/GS	H/MSI (.000)	H/MSI (.907)	H/MSI (.874)	
26	39	0.245	0.0664	0.0654	0.0757	0.0797	
27	40	0.245	0.0750	0.0750	0.0856	0.0900	
28	41	0.245	0.0851	0.0851	0.0970	0.1021	
29	42	0.245	0.0974	0.0974	0.1110	0.1168	
30	43	0.245	0.1133	0.1133	0.1292	0.1360	
31	44	0.244	0.1310	0.1310	0.1493	0.1572	
32	45	0.244	0.1492	0.1492	0.1702	0.1791	
33	46	0.244	0.1709	0.1709	0.1949	0.2051	
34	47	0.244	0.1862	0.1862	0.2124	0.2235	
35	48	0.244	0.2135	0.2135	0.2435	0.2562	
36	49	0.244	0.2290	0.2290	0.2611	0.2747	
37	50	0.244	0.2395	0.2395	0.2731	0.2874	
38	50	0.244	0.2395	0.2395	0.2731	0.2874	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.10 2.2504E 06 2.0566E 06 3.314 3.12 1217.0 1.2922E 06 1.000 1.000 1.000 1.000
 MACH 5.10 6.8868E 05 2.0666E 06 3.306 11.339 2193.6 557.60 1.0000 1.0000

CHAN	I/C	IMIDEG K	IMIDEG R	Q1(W/CM2)	Q1BTU/FI2-SEC	Q5(W/CM2)	Q5(BTU/FT2-S-C)	ST(C.907)	ST(C.874)	TIME(SEC)
26	26	316.0	568.7	0.996	0.878	12.094	10.656	3.7144E-04	3.9145E-04	0.277
27	27	317.3	571.1	0.922	0.812	12.076	10.641	3.4457E-04	3.6267E-04	0.255
28	28	317.7	573.6	0.891	0.777	12.080	10.644	3.3542E-04	3.5679E-04	0.240
29	29	317.1	570.8	0.839	0.739	12.078	10.643	3.1366E-04	3.3014E-04	0.213
30	30	317.0	570.6	0.813	0.716	12.080	10.644	3.0373E-04	3.1968E-04	0.202
31	31	316.7	570.1	0.789	0.687	12.083	10.647	2.9149E-04	3.0679E-04	0.177
32	32	316.8	570.3	0.757	0.667	12.082	10.646	2.8496E-04	2.9781E-04	0.150
33	33	316.7	570.1	0.734	0.647	12.084	10.647	2.7427E-04	2.8667E-04	0.127
34	34	316.6	570.0	0.704	0.618	12.085	10.648	2.6489E-04	2.7564E-04	0.105
35	35	316.6	569.9	0.677	0.597	12.085	10.649	2.5571E-04	2.6631E-04	0.078
36	36	316.5	569.8	0.657	0.588	12.086	10.649	2.4728E-04	2.6236E-04	0.064
37	37	316.3	569.4	0.628	0.558	12.089	10.652	2.3361E-04	2.6665E-04	0.058
38	38	316.4	569.5	0.720	0.544	12.088	10.651	2.7281E-04	2.8711E-04	0.104
39	39	316.1	569.0	0.803	0.708	12.092	10.654	2.9586E-04	3.1560E-04	0.114
40	40	316.0	568.8	0.907	0.799	12.093	10.655	3.2868E-04	3.5644E-04	0.212
41	41	316.0	568.9	1.029	0.906	12.093	10.655	3.8408E-04	4.0423E-04	0.275
42	42	315.8	568.4	1.178	1.038	12.096	10.659	4.3950E-04	4.6255E-04	0.314
43	43	315.6	568.1	1.371	1.208	12.099	10.660	5.1148E-04	5.3830E-04	0.353
44	44	315.4	567.7	1.585	1.396	12.102	10.663	5.9120E-04	6.2219E-04	0.397
45	45	315.1	567.1	1.806	1.592	12.105	10.667	6.7367E-04	7.0897E-04	0.418
46	46	315.1	567.1	2.169	1.823	12.105	10.667	7.7162E-04	8.1206E-04	0.441
47	47	314.8	566.7	2.555	1.987	12.109	10.670	8.4071E-04	8.8475E-04	0.480
48	48	314.8	566.6	2.586	2.278	12.110	10.670	9.6395E-04	1.0144E-03	0.472
49	49	314.7	566.5	2.773	2.443	12.110	10.671	1.0736E-03	1.0877E-03	0.481
50	50	314.5	566.2	2.901	2.550	12.114	10.674	1.0811E-03	1.1377E-03	0.480

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9876E-11 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center McFlett Field Calif. *** PRELIMINARY DATA ***

CHAN	I/C	IMIDEG K)	IMIDEG R)	Q (IN/CM2)	Q (IU/FT2-SEC)	Q (M/CM2)	Q (M/CP2)	QS (BTU/FT2-SEC)	ST (C.907)	ST (O.874)	TIME (SEC)
51	51	317.6	571.7	1.11	0.892	12.469	10.987	3.7242E-04	3.9181E-04	3.9181E-04	0.181
52	52	318.7	573.7	0.961	0.947	11.454	10.974	3.5425E-04	3.7266E-04	3.7266E-04	0.163
53	53	318.2	572.7	0.912	1.803	12.461	10.986	3.3573E-04	3.5322E-04	3.5322E-04	0.176
54	54	318.7	573.7	0.890	0.784	12.454	10.974	3.2794E-04	3.4507E-04	3.4507E-04	0.147
55	55	318.9	574.1	0.834	0.735	12.451	10.971	3.1739E-04	3.2341E-04	3.2341E-04	0.132
56	56	318.9	572.9	0.828	0.749	12.452	10.972	3.0497E-04	3.2087E-04	3.2087E-04	0.038
57	57	319.2	574.5	0.779	0.687	12.448	10.968	2.8730E-04	3.0228E-04	3.0228E-04	0.072
58	58	319.4	574.8	0.746	0.658	12.446	10.966	2.7455E-04	2.8961E-04	2.8961E-04	0.073
59	59	319.3	574.7	0.764	0.671	12.447	10.967	2.8509E-04	2.9563E-04	2.9563E-04	0.073
60	60	319.6	575.4	0.731	0.644	12.442	10.953	2.6546E-04	2.8332E-04	2.8332E-04	0.073
61	61	319.9	575.8	0.749	0.660	12.439	10.960	2.7629E-04	2.9071E-04	2.9071E-04	0.076
62	62	319.2	573.8	0.752	0.661	12.438	10.960	2.7678E-04	2.9123E-04	2.9123E-04	0.069
63	63	320.3	576.5	0.795	0.701	12.434	10.956	2.8362E-04	3.0896E-04	3.0896E-04	0.086
64	64	320.5	576.8	0.912	0.804	12.431	10.953	3.3679E-04	3.5436E-04	3.5436E-04	0.089
65	65	320.5	576.8	0.892	0.787	12.432	10.954	3.2382E-04	3.4704E-04	3.4704E-04	0.089
66	66	321.2	578.2	0.958	0.844	12.421	10.944	3.5393E-04	3.7243E-04	3.7243E-04	0.071
67	67	321.7	579.1	1.139	0.915	12.414	10.939	3.8462E-04	4.0411E-04	4.0411E-04	0.068
68	68	322.9	581.1	1.142	1.006	12.400	10.926	4.2285E-04	4.4499E-04	4.4499E-04	0.078
69	69	323.9	582.9	1.311	1.255	12.386	10.914	4.8571E-04	5.1119E-04	5.1119E-04	0.106
70	70	324.5	584.1	1.517	1.336	12.377	10.906	5.4249E-04	5.9201E-04	5.9201E-04	0.134
71	71	326.3	587.3	1.794	1.581	12.353	10.885	6.8615E-04	7.0182E-04	7.0182E-04	0.150
72	72	327.5	589.5	2.140	1.885	12.337	10.871	7.9637E-04	8.3631E-04	8.3631E-04	0.179
73	73	328.0	590.4	2.262	1.993	12.331	10.865	8.4246E-04	8.6680E-04	8.6680E-04	0.192
74	74	329.1	592.4	2.548	2.231	12.316	10.852	9.6671E-04	9.6430E-04	9.6430E-04	0.223
75	75	330.0	594.0	2.535	2.234	12.304	10.842	9.4626E-04	9.4626E-04	9.4626E-04	0.238

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.9523E-1 SLUGS/FT2-SEC

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER McFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 REL LENGTH(METER) 3.4450E 06 REL LENGTH(METER) 1.1571E 06
 REL RE/METER 3.7275E 05 REL RE/METER 1.1571E 06
 REL LENGTH(IN) 3.300 REL LENGTH(IN) 497.58
 REL RE/FT 1.1483E 05 REL RE/FT 1.0000

TEST NO. 158
 RUN NO. 44

CHAN	T/C	H/M/HT	Q/OS	H/MS(AOCQ)	H/MS(L227)	M/MS(L874)	CHAN	T/C	H/M/HT	C/GS	H/MS(L00)	M/MS(0.907)	H/MS(0.874)
1	4	0.275	0.0923	0.1058	0.1116	0.1116	14	14	0.275	0.1530	0.1755	0.1755	0.1852
2	2	0.275	0.0865	0.0992	0.1047	0.1047	15	15	0.275	0.1776	0.2037	0.2037	0.2150
3	3	0.276	0.0826	0.0948	0.1000	0.1000	16	16	0.275	0.2023	0.2321	0.2321	0.2459
4	4	0.276	0.0782	0.0898	0.0947	0.0947	17	17	0.275	0.2236	0.2565	0.2565	0.2706
5	5	0.276	0.0749	0.0865	0.0907	0.0907	18	18	0.275	0.2456	0.2818	0.2818	0.2973
6	6	0.275	0.0716	0.0832	0.0867	0.0867	19	19	0.275	0.2576	0.2955	0.2955	0.3117
7	7	0.275	0.0725	0.0831	0.0877	0.0877	20	20	0.275	0.2656	0.3047	0.3047	0.3215
8	8	0.275	0.0744	0.0854	0.0891	0.0891	21	21	0.274	0.2733	0.3135	0.3135	0.3307
9	9	0.275	0.0772	0.0885	0.0934	0.0934	22	22	0.275	0.2720	0.3120	0.3120	0.3291
10	10	0.275	0.0849	0.0974	0.1028	0.1028	23	23	0.274	0.2734	0.3136	0.3136	0.3308
11	11	0.275	0.0953	0.1093	0.1153	0.1153	24	24	0.274	0.2718	0.3119	0.3119	0.3290
12	12	0.275	0.1124	0.1289	0.1360	0.1360	25	25	0.274	0.2754	0.3158	0.3158	0.3332
13	13	0.275	0.1318	0.1514	0.1595	0.1595							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. PRELIMINARY DATA
 MACH 5.10 3.7675E 06 3.4450E 06 3.300 167.10 1975.5 497.28 1.000C
 REL LENGTH (METER) 7.34 1.27 1.0975 1.1571E 06 9.3046
 REL LENGTH (FEET) 24.1 4.17 3.59 3.751E 06 30.46
 MACH 5.10 1.1483E 06 3.4450E 06 3.300 167.10 1975.5 497.28 1.000C
 REL LENGTH (METER) 7.34 1.27 1.0975 1.1571E 06 9.3046
 REL LENGTH (FEET) 24.1 4.17 3.59 3.751E 06 30.46

CHAN	I/C	IMIDEG KJ	IMIDEG RI	QIN/CM2	QOIV/FI2-SEC	Q5 (TU/FI2-SIG)	STIC (907)	STIC (074)	TIME (SEC)
1	1	311.6	560.9	1.44	2.361	10.891	3.783E-04	3.4575E-04	0.393
2	2	317.	571.8	1.61	2.266	10.808	3.718E-04	3.2412E-04	0.328
3	3	317.4	571.6	1.614	2.267	10.809	3.718E-04	3.2412E-04	0.328
4	4	317.5	571.5	0.960	2.268	10.810	3.718E-04	3.2412E-04	0.328
5	5	317.4	571.3	0.919	2.270	10.811	3.718E-04	3.2412E-04	0.328
6	6	317.3	571.1	0.878	2.272	10.813	3.718E-04	3.2412E-04	0.328
7	7	317.3	571.2	0.889	2.271	10.813	3.718E-04	3.2412E-04	0.328
8	8	317.2	571.0	0.913	2.272	10.814	3.718E-04	3.2412E-04	0.328
9	9	316.7	570.7	0.947	2.281	10.821	3.718E-04	3.2412E-04	0.328
10	10	316.8	570.2	1.43	2.279	10.820	3.718E-04	3.2412E-04	0.328
11	11	316.7	570.1	1.170	2.281	10.821	3.718E-04	3.2412E-04	0.328
12	12	316.5	569.8	1.180	2.283	10.843	3.718E-04	3.2412E-04	0.328
13	13	317.0	570.6	1.317	2.276	10.817	3.718E-04	3.2412E-04	0.328
14	14	317.0	570.6	1.878	2.276	10.867	3.718E-04	3.2412E-04	0.328
15	15	317.2	570.9	2.83	2.273	10.815	3.718E-04	3.2412E-04	0.328
16	16	316.7	570.1	2.484	2.286	10.821	3.718E-04	3.2412E-04	0.328
17	17	316.7	570.0	2.746	2.281	10.821	3.718E-04	3.2412E-04	0.328
18	18	316.9	570.3	3.226	2.278	10.819	3.718E-04	3.2412E-04	0.328
19	19	316.8	570.3	3.163	2.279	10.819	3.718E-04	3.2412E-04	0.328
20	20	316.8	570.2	3.162	2.280	10.820	3.718E-04	3.2412E-04	0.328
21	21	315.9	568.7	3.160	2.282	10.831	3.718E-04	3.2412E-04	0.328
22	22	316.5	569.7	3.341	2.284	10.824	3.718E-04	3.2412E-04	0.328
23	23	315.7	568.3	3.362	2.296	10.834	3.718E-04	3.2412E-04	0.328
24	24	316.1	569.0	3.141	2.290	10.829	3.718E-04	3.2412E-04	0.328
25	25	316.1	568.9	3.384	2.291	10.830	3.718E-04	3.2412E-04	0.328

FREE-STREAM DENSITY-VELOCITY PROBE = 3.4450E-06 SLUGS/FI2-SEC

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFET FIELD CALIF. PRELIMINARY DATA															
MACH		REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10	3.58	0.00E 00	3.2787E 06	3.924	1.037	1.1300	1.1949E 16	0.2048	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
MACH		REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.000	0.0929E 06	3.2787E 06	3.000	167.10	2034.4	513.85	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
CHAN	T/C	HM/HT	Q/QS	H/HSL	F/HSL	F/HSL	F/HSL	F/HSL	T/C	HM/HT	Q/QS	F/HSL	F/HSL	F/HSL	F/HSL
26	26	0.266	0.0794	0.0909	0.0959	0.0959	0.0959	0.0959	39	0.264	0.1725	0.1725	0.1725	0.1725	0.2082
27	27	0.265	0.0744	0.0853	0.0899	0.0899	0.0899	0.0899	40	0.264	0.2044	0.2044	0.2044	0.2044	0.2466
28	28	0.267	0.0721	0.0822	0.0870	0.0870	0.0870	0.0870	41	0.261	0.2333	0.2333	0.2333	0.2333	0.2918
29	29	0.266	0.0689	0.0789	0.0832	0.0832	0.0832	0.0832	42	0.267	0.2537	0.2537	0.2537	0.2537	0.3063
30	30	0.266	0.0669	0.0766	0.0807	0.0807	0.0807	0.0807	43	0.266	0.2692	0.2692	0.2692	0.2692	0.3250
31	31	0.266	0.0652	0.0746	0.0787	0.0787	0.0787	0.0787	44	0.265	0.2789	0.2789	0.2789	0.2789	0.3365
32	32	0.266	0.0649	0.0743	0.0784	0.0784	0.0784	0.0784	45	0.263	0.2816	0.2816	0.2816	0.2816	0.3396
33	33	0.267	0.0649	0.0743	0.0784	0.0784	0.0784	0.0784	46	0.267	0.2858	0.2858	0.2858	0.2858	0.3421
34	34	0.266	0.0666	0.0763	0.0804	0.0804	0.0804	0.0804	47	0.267	0.2782	0.2782	0.2782	0.2782	0.3359
35	35	0.266	0.0725	0.0823	0.0875	0.0875	0.0875	0.0875	48	0.267	0.2869	0.2869	0.2869	0.2869	0.3464
36	36	0.265	0.0856	0.0981	0.1033	0.1033	0.1033	0.1033	49	0.267	0.2819	0.2819	0.2819	0.2819	0.3404
37	37	0.265	0.1074	0.1226	0.1293	0.1293	0.1293	0.1293	50	0.267	0.2745	0.2745	0.2745	0.2745	0.3514
38	38	0.265	0.1397	0.1601	0.1686	0.1686	0.1686	0.1686	50	0.267	0.2745	0.2745	0.2745	0.2745	0.3514

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 3.5355E 06 3.2787E 06 3.2787E 06 3.2787E 06
 RE/METER R/L LENGTH(METER) P(LATM) T(DIG.K) WT(JOULE/KG) (METER) M/M/MT TEST NO. 150
 REFEY REL LENGTH REL P(LPSL) I(DIG.R) M(TH/WT) R(SLE) M/M/MT RUN NO. 44
 3.0929E 06 3.2787E 06 3.2787E 06 3.2787E 06 513.85 1.0000 1.0000 1.0000

CHAN	I/C	I(M/DIG.K)	I(M/DIG.R)	Q(M/CM2)	W(LB/FT2-SEC)	Q(SM/CP2)	Q(SM/FT2-SEC)	W(LB/FT2-SEC)	Q(SM/CP2)	Q(SM/FT2-SEC)	ST(S/FT2)	ST(S/FT2)	TIME(SEC)
26	26	316.5	569.5	1.019	0.898	12.936	11.310	2.977E-04	2.977E-04	3.0341E-04	3.0341E-04	C.209	
27	27	316.9	570.4	0.955	0.842	12.830	11.305	4.054E-04	4.054E-04	2.8449E-04	2.8449E-04	C.195	
28	28	317.3	571.1	0.924	0.715	12.823	11.299	2.6317E-04	2.6317E-04	2.7326E-04	2.7326E-04	C.192	
29	29	316.4	569.5	0.894	0.779	12.837	11.311	2.6484E-04	2.6484E-04	2.6319E-04	2.6319E-04	C.165	
30	30	316.4	569.4	0.959	0.757	12.828	11.312	2.4247E-04	2.4247E-04	2.5555E-04	2.5555E-04	C.148	
31	31	316.7	568.9	0.937	0.739	12.843	11.316	2.3626E-04	2.3626E-04	2.4908E-04	2.4908E-04	C.135	
32	32	316.9	568.9	0.934	0.734	12.843	11.316	2.3225E-04	2.3225E-04	2.4798E-04	2.4798E-04	C.110	
33	33	317.3	571.1	0.932	0.733	12.823	11.299	2.3224E-04	2.3224E-04	2.4803E-04	2.4803E-04	C.085	
34	34	317.3	571.1	0.954	0.722	12.823	11.299	2.4139E-04	2.4139E-04	2.5450E-04	2.5450E-04	C.068	
35	35	316.2	569.2	0.930	0.820	12.840	11.314	2.2291E-04	2.2291E-04	2.7683E-04	2.7683E-04	C.088	
36	36	315.6	568.1	0.999	0.969	12.849	11.322	3.0506E-04	3.0506E-04	3.2687E-04	3.2687E-04	C.142	
37	37	314.9	566.9	1.077	0.944	12.867	11.331	3.0918E-04	3.0918E-04	4.0919E-04	4.0919E-04	C.211	
38	38	314.9	566.7	1.197	0.883	12.861	11.332	3.2634E-04	3.2634E-04	5.3376E-04	5.3376E-04	C.308	
39	39	314.7	566.4	1.220	0.956	12.864	11.335	6.0524E-04	6.0524E-04	6.5911E-04	6.5911E-04	C.263	
40	40	314.7	566.4	1.229	0.916	12.864	11.335	7.4527E-04	7.4527E-04	1.011 E-04	1.011 E-04	C.404	
41	41	318.3	572.9	2.989	2.934	12.808	11.266	8.4565E-04	8.4565E-04	8.911E-04	8.911E-04	C.430	
42	42	317.6	571.7	3.252	4.865	12.918	11.294	9.1454E-04	9.1454E-04	9.6953E-04	9.6953E-04	C.431	
43	43	318.2	572.2	3.457	3.946	12.841	11.314	9.7568E-04	9.7568E-04	1.0286E-03	1.0286E-03	C.427	
44	44	315.0	567.1	3.586	3.160	12.859	11.330	1.0106E-03	1.0106E-03	1.0653E-03	1.0653E-03	C.430	
45	45	313.3	563.9	3.528	3.137	12.886	11.354	1.0240E-03	1.0240E-03	1.0753E-03	1.0753E-03	C.434	
46	46	317.7	571.8	3.662	3.228	12.817	11.294	1.0360E-03	1.0360E-03	1.0923E-03	1.0923E-03	C.432	
47	47	317.3	571.2	3.667	3.143	12.823	11.298	1.0382E-03	1.0382E-03	1.0630E-03	1.0630E-03	C.462	
48	48	317.4	571.4	3.670	3.241	12.821	11.297	1.0396E-03	1.0396E-03	1.0963E-03	1.0963E-03	C.434	
49	49	317.4	571.4	3.614	3.485	12.821	11.297	1.0396E-03	1.0396E-03	1.0774E-03	1.0774E-03	C.439	
50	50	317.4	571.3	3.614	3.101	12.827	11.298	1.0492E-04	1.0492E-04	1.0490E-03	1.0490E-03	C.439	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9447E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CENTER, MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH		RE/METER	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10		3.4967E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06
MACH		RE/FT	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10		3.0659E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06	3.1973E 06
CHAN	I/C	HW/HT	G/QS	H/HS(L=0.00)	H/HS(L=0.207)	H/HS(L=0.874)	CHAN	I/C	HW/HT	C/QS	M/MS(L=0.00)	M/MS(Q=0.907)	M/MS(C=0.874)		
51	51	0.264	0.0759	0.0759	0.0759	0.0916	64	64	0.265	0.1535	0.1535	0.1758	0.1853		
52	52	0.265	0.0752	0.0722	0.0825	0.0871	65	65	0.265	0.1694	0.1694	0.1939	0.2045		
53	53	0.265	0.0681	0.0681	0.0779	0.0822	66	66	0.266	0.1874	0.1874	0.2260	0.2383		
54	54	0.265	0.0657	0.0657	0.0753	0.0793	67	67	0.265	0.2215	0.2215	0.2536	0.2674		
55	55	0.265	0.0628	0.0628	0.0719	0.0757	68	68	0.267	0.2380	0.2380	0.2725	0.2874		
56	56	0.265	0.0636	0.0636	0.0728	0.0768	69	69	0.268	0.2494	0.2494	0.2857	0.3013		
57	57	0.265	0.0615	0.0615	0.0704	0.0742	70	70	0.269	0.2582	0.2582	0.2958	0.3119		
58	58	0.265	0.0607	0.0607	0.0694	0.0732	71	71	0.271	0.2713	0.2713	0.3110	0.3280		
59	59	0.265	0.0666	0.0666	0.0763	0.0804	72	72	0.272	0.2861	0.2861	0.3279	0.3459		
60	60	0.265	0.0699	0.0699	0.0801	0.0844	73	73	0.272	0.2746	0.2746	0.3149	0.3321		
61	61	0.265	0.0804	0.0804	0.0921	0.0970	74	74	0.273	0.2635	0.2635	0.3022	0.3187		
62	62	0.265	0.0928	0.0928	0.1074	0.1132	75	75	0.274	0.2586	0.2586	0.2966	0.3130		
63	63	0.265	0.1157	0.1157	0.1325	0.1397									

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 3.4967E 06 3.1973E 06 0.914 2.37 2.471 2146E 06 3.3 4.3 4.3 1.300 1.300 1.300
 RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) MT(JOULE/KG) (SIMULT) PAM/MT TEST NO. 158
 SE/SEY GAL LE/GHLEFI PIPSEJ TIDEG RJ MIBIUM/LEM TIDEG RJ MS(EI) MH/HJ RUN NO. 44
 3.0658E 06 3.1973E 06 3.000 167.10 2064.9 522.30 3.000 3.000

CHAN	I/C	IM(DEG K)	IM(DEG RJ)	Q(BT/CM2)	Q(BT/CM2)	QS(W/CM2)	QS(BTU/FT2-SEC)	QS(BTU/FT2-SEC)	ST(1.907)	ST(1.907)	TIME(SEC)
51	51	319.8	575.6	0.992	0.874	13.070	11.516	2.7872E-04	2.9307E-04	0.135	
52	52	320.6	577.1	0.942	0.830	13.056	11.504	2.8438E-04	2.7871E-04	0.110	
53	53	320.6	576.1	0.952	0.884	13.066	11.513	2.8539E-04	2.8589E-04	0.112	
54	54	320.3	576.6	0.959	0.756	13.061	11.508	2.4077E-04	2.5381E-04	0.058	
55	55	320.6	577.2	0.919	0.722	13.056	11.504	2.7485E-04	2.4231E-04	0.061	
56	56	320.2	576.9	0.930	0.732	13.058	11.506	2.3495E-04	2.4558E-04	0.054	
57	57	320.2	576.3	0.903	0.708	13.064	11.511	2.2521E-04	2.3741E-04	0.043	
58	58	320.5	577.0	0.992	0.699	13.058	11.506	2.2218E-04	2.3423E-04	0.024	
59	59	320.6	577.1	0.975	0.766	13.057	11.505	2.5402E-04	2.5725E-04	0.030	
60	60	320.9	577.6	0.913	0.804	13.052	11.500	2.5417E-04	2.7006E-04	0.041	
61	61	320.6	577.1	1.449	0.925	13.057	11.505	2.9440E-04	3.1036E-04	0.050	
62	62	321.0	577.8	1.224	0.978	13.051	11.499	3.4448E-04	3.4212E-04	0.059	
63	63	320.6	577.1	1.311	0.931	13.057	11.505	4.2385E-04	4.4682E-04	0.083	
64	64	320.7	577.2	2.005	1.766	13.055	11.503	5.6243E-04	5.9292E-04	0.089	
65	65	320.6	577.1	2.212	1.949	13.057	11.505	6.2505E-04	6.5413E-04	0.121	
66	66	321.6	578.8	2.574	2.268	13.042	11.492	7.2305E-04	7.6228E-04	0.139	
67	67	320.5	576.9	2.593	2.249	13.058	11.506	6.1443E-04	8.5540E-04	0.173	
68	68	320.9	581.3	3.739	2.734	13.020	11.472	8.7181E-04	9.1923E-04	0.213	
69	69	320.6	583.2	3.244	2.868	13.004	11.458	9.1395E-04	9.6371E-04	0.229	
70	70	320.4	585.4	3.353	2.954	12.986	11.443	9.4610E-04	9.9770E-04	0.246	
71	71	327.3	589.1	3.314	3.297	12.952	11.413	9.3448E-04	1.0488E-03	0.260	
72	72	328.9	592.1	3.698	3.258	12.926	11.390	1.0488E-03	1.1061E-03	0.265	
73	73	329.0	592.3	3.728	3.228	12.924	11.388	1.0675E-03	1.0619E-03	0.275	
74	74	330.2	594.4	3.401	3.996	12.906	11.372	9.6601E-04	1.0191E-03	0.287	
75	75	330.9	597.4	3.932	3.935	12.880	11.349	9.4822E-04	1.0004E-03	0.296	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.9118E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MCCRETT FIELD CALIF. PRELIMINARY DATA ***
 MACH REF/METER 4.6385 75 4.2292 75 3.914 15.22 1152.7 1.2234E 24 3.4E 1.000 TEST NO. 198
 MACH REF/FEET 1.4797E 03 4.2292E 06 3.914 15.22 1152.7 1.2234E 24 3.4E 1.000 RUN NO. 45
 LENGTH (METERS) 21.311 23.51 2078.4 526.07 1.000
 LENGTH (FEET) 69.91 77.28 6853.8 1728.2 3280.8
 CONSTANT SECT III

CHAN	I/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.259	0.0858	0.0859	0.0982	0.0934	14	14	0.261	0.1394	0.1394	0.1595	0.1681
2	2	0.251	0.0807	0.0807	0.0923	0.0973	15	15	0.261	0.1613	0.1613	0.1846	0.1945
3	3	0.251	0.0755	0.0755	0.0864	0.0910	16	16	0.261	0.1860	0.1860	0.2128	0.2242
4	4	0.261	0.0718	0.0718	0.0822	0.0866	17	17	0.262	0.2094	0.2094	0.2396	0.2525
5	5	0.261	0.0685	0.0685	0.0784	0.0826	18	18	0.262	0.2346	0.2346	0.2684	0.2828
6	6	0.261	0.0665	0.0665	0.0763	0.0801	19	19	0.261	0.2508	0.2508	0.2849	0.3024
7	7	0.261	0.0691	0.0691	0.0779	0.0821	20	20	0.261	0.2631	0.2631	0.3010	0.3172
8	8	0.261	0.0681	0.0681	0.0784	0.0826	21	21	0.262	0.2763	0.2763	0.3161	0.3332
9	9	0.261	0.0742	0.0742	0.0815	0.0859	22	22	0.261	0.2793	0.2793	0.3196	0.3368
10	10	0.261	0.0769	0.0769	0.0880	0.0928	23	23	0.261	0.2827	0.2827	0.3234	0.3408
11	11	0.261	0.0800	0.0800	0.0983	0.1036	24	24	0.261	0.2824	0.2824	0.3230	0.3404
12	12	0.261	0.0935	0.0935	0.1132	0.1191	25	25	0.262	0.2866	0.2866	0.3279	0.3456
13	13	0.261	0.1202	0.1202	0.1575	0.1649							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA TEST NO. 158
 MACH 5.10 REL 4.2295E 06 3.914 1.547 1.000 HAM/HT 1.000
 MACH 5.10 REL 4.2295E 06 3.914 1.547 1.000 HAM/HT 1.000
 MACH 5.10 REL 4.2295E 06 3.914 1.547 1.000 HAM/HT 1.000

CHAX	I/C	IMIDEG K	IMIDEG R	QIN/CM2	QIBIU/FI2-SEC	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	315.1	367.2	1.317	1.061	15.347	13.523	2.757E-04	2.8760E-04	0.112
2	2	317.5	371.5	1.335	1.088	15.304	13.485	2.667E-04	2.7050E-04	0.289
3	3	317.8	372.2	1.322	1.078	15.298	13.479	2.432E-04	2.5395E-04	0.197
4	4	318.3	372.9	1.308	1.068	15.290	13.472	2.235E-04	2.4081E-04	0.164
5	5	318.4	373.1	1.348	1.023	15.287	13.470	2.181E-04	2.2976E-04	0.111
6	6	318.2	372.8	1.342	1.095	15.290	13.473	2.113E-04	2.2276E-04	0.071
7	7	317.9	372.2	1.441	1.018	15.296	13.478	2.165E-04	2.2823E-04	0.162
8	8	319.1	372.6	1.447	1.023	15.293	13.475	2.178E-04	2.2960E-04	0.048
9	9	317.7	371.9	1.390	1.064	15.299	13.481	2.206E-04	2.3880E-04	0.282
10	10	318.0	372.3	1.377	1.037	15.295	13.477	2.473E-04	2.5790E-04	0.118
11	11	317.9	372.2	1.315	1.059	15.296	13.478	2.734E-04	2.8814E-04	0.196
12	12	317.7	371.8	1.211	1.032	15.301	13.482	3.142E-04	3.3110E-04	0.262
13	13	318.0	372.3	1.038	1.019	15.295	13.477	3.811E-04	4.0277E-04	0.359
14	14	318.1	372.7	1.132	1.078	15.292	13.474	4.434E-04	4.6729E-04	0.419
15	15	318.4	373.1	1.166	1.173	15.288	13.471	5.231E-04	5.4978E-04	0.441
16	16	318.3	373.0	2.843	2.309	15.299	13.471	5.715E-04	6.2341E-04	0.489
17	17	318.5	373.2	3.012	2.321	15.288	13.469	6.552E-04	7.0210E-04	0.522
18	18	318.6	373.2	3.235	2.459	15.284	13.467	7.4619E-04	7.8640E-04	0.548
19	19	318.2	372.8	3.235	3.379	15.295	13.473	7.977E-04	8.4073E-04	0.558
20	20	318.5	372.9	4.023	3.345	15.290	13.472	8.370E-04	8.8207E-04	0.566
21	21	318.8	373.4	4.023	3.722	15.284	13.467	8.789E-04	9.2634E-04	0.570
22	22	318.4	373.1	4.070	3.763	15.288	13.471	8.985E-04	9.3639E-04	0.582
23	23	318.5	373.2	4.121	3.807	15.286	13.469	8.9514E-04	9.4758E-04	0.582
24	24	318.3	373.2	4.023	3.842	15.285	13.465	8.9619E-04	9.4598E-04	0.583
25	25	318.8	373.9	4.080	3.859	15.280	13.463	9.1177E-04	9.6091E-04	0.581

FREESTREAM DENSITY-VELOCITY PRODUCT = 3.8754E-01 (SLUGS/FT2-SEC)

PROBE NO. = :

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***														
MACH		W/AS	W/HT	W/AS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	W/HT	L/C/S	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
TEST NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	39	39	39	0.256	0.1601	0.1601	0.1830	0.1928
RUN NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	40	40	40	0.257	0.1619	0.1619	0.2104	0.2311
MACH		W/AS	W/HT	W/AS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	W/HT	L/C/S	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
TEST NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	41	41	41	0.256	0.2248	0.2248	0.2569	0.2706
RUN NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	42	42	42	0.256	0.2518	0.2518	0.2878	0.3031
TEST NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	43	43	43	0.256	0.2752	0.2752	0.3145	0.3313
RUN NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	44	44	44	0.256	0.2920	0.2920	0.3337	0.3515
TEST NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	45	45	45	0.256	0.2992	0.2992	0.3419	0.3602
RUN NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	46	46	46	0.256	0.3054	0.3054	0.3490	0.3676
TEST NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	47	47	47	0.256	0.2986	0.2986	0.3412	0.3594
RUN NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	48	48	48	0.255	0.3087	0.3087	0.3528	0.3710
TEST NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	49	49	49	0.256	0.3035	0.3035	0.3468	0.3654
RUN NO.	45	4.765	0.0755	0.1785	0.1785	0.1785	50	50	50	0.256	0.2969	0.2969	0.3392	0.3573

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	REL RE/METER	REL LENGTH (METER)	PT (ATH)	TT (DEG K)	HT (FOUR/AG)	AS (METER)	PAW/MT	TEST NO.			
5.10	-47.4E 06	4.0914E 06	0.914	15.30	1.250E 06	1.374E	1.000	158			
MACH	REL RE/FT	REL LENGTH (FT)	PT (PSI)	TT (DEG R)	HT (TU/LBM)	RS (FI)	PAW/HI	RUN NO.			
5.10	1.3558E 06	4.0914E 06	3.000	3119.5	537.51	1.0000	1.000	45			
CHAN	T/C	TM (DEG K)	TM (DEG K)	Q (W/CM2)	Q (W/CM2)	Q (BTU/FT2-SEC)	OS (W/CM2)	US (BTU/FT2-SEC)	ST (0.907)	ST (0.874)	TIME (SEC)
26	26	319.3	574.7	1.333	1.087	13.849	15.717	13.849	4.3508E-04	2.6661E-04	0.182
27	27	323.9	577.6	1.354	1.017	13.843	15.647	13.843	2.7754E-04	2.5005E-04	0.167
28	28	328.6	577.8	1.374	1.039	13.832	15.527	13.827	2.8829E-04	2.4346E-04	0.157
29	29	330.5	576.9	1.386	1.057	13.829	15.394	13.829	2.9819E-04	2.3513E-04	0.151
30	30	333.4	576.7	1.409	1.024	13.831	15.295	13.831	3.0749E-04	2.2701E-04	0.111
31	31	338.9	575.9	1.422	1.000	13.838	15.174	13.838	3.1674E-04	2.2104E-04	0.086
32	32	343.9	575.8	1.437	0.987	13.838	15.055	13.838	3.2599E-04	2.1779E-04	0.039
33	33	349.5	575.1	1.452	1.005	13.845	15.113	13.845	3.3524E-04	2.2217E-04	0.030
34	34	355.2	575.2	1.467	1.028	13.844	15.112	13.844	3.4449E-04	2.2527E-04	0.006
35	35	360.5	575.1	1.482	1.063	13.845	15.713	13.845	3.5374E-04	2.3628E-04	0.017
36	36	365.5	575.1	1.497	1.113	13.845	15.712	13.845	3.6300E-04	2.7302E-04	0.018
37	37	370.2	574.6	1.512	1.163	13.850	15.718	13.850	3.7225E-04	3.3802E-04	0.102
38	38	375.2	574.5	1.527	1.213	13.850	15.719	13.850	3.8150E-04	4.2671E-04	0.207
39	39	380.2	574.3	1.542	1.263	13.852	15.721	13.852	3.9075E-04	5.4383E-04	0.284
40	40	385.2	574.7	1.557	1.313	13.848	15.717	13.848	4.0000E-04	5.5194E-04	0.338
41	41	390.1	574.3	1.572	1.363	13.852	15.720	13.852	4.0925E-04	7.6353E-04	0.384
42	42	395.1	573.6	1.587	1.413	13.858	15.726	13.858	4.1850E-04	8.5527E-04	0.403
43	43	400.1	573.4	1.602	1.463	13.850	15.727	13.850	4.2775E-04	9.3472E-04	0.418
44	44	405.1	573.1	1.617	1.513	13.863	15.733	13.863	4.3700E-04	9.9177E-04	0.430
45	45	410.1	572.7	1.632	1.563	13.866	15.736	13.866	4.4625E-04	1.01163E-03	0.440
46	46	415.1	572.6	1.647	1.613	13.867	15.738	13.867	4.5550E-04	1.03172E-03	0.441
47	47	420.1	572.6	1.662	1.663	13.869	15.741	13.869	4.6475E-04	1.05181E-03	0.475
48	48	425.1	572.7	1.677	1.713	13.866	15.737	13.866	4.7400E-04	1.0485E-03	0.443
49	49	430.1	572.9	1.692	1.763	13.864	15.734	13.864	4.8325E-04	1.0309E-03	0.450
50	50	435.1	572.5	1.707	1.813	13.867	15.737	13.867	4.9250E-04	1.0083E-03	0.449

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.8171E-11 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.1 4.344E 06 3.968E 06 3.300 1.000 1.000
 MACH 5.10 1.319E 06 3.968E 06 3.300 1.000 1.000

REL LENGTH(METER) P(ATM) T(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 0.924 15.20 1198.7 1.2748E 06 0.3748 1.000 RUN NO. 45
 REL LENGTH(FT) P(PSI) T(DEG R) H(HBTU/LBM) RS(FI) HAM/HT
 3.000 23.51 7157.7 548.19 1.0000 1.000

CHAN	I/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
51	51	0.254	0.0755	0.0874	0.0923	0.0923	64	64	0.256	0.1971	0.2253	0.2253	0.2373
52	52	0.255	0.0717	0.0719	0.0762	0.0762	65	65	0.256	0.2128	0.2433	0.2433	0.2563
53	53	0.254	0.0691	0.0782	0.0831	0.0831	66	66	0.257	0.2388	0.2729	0.2729	0.2875
54	54	0.255	0.0686	0.0783	0.0825	0.0825	67	67	0.258	0.2602	0.2975	0.2975	0.3134
55	55	0.255	0.0654	0.0747	0.0777	0.0777	68	68	0.259	0.2713	0.3102	0.3102	0.3268
56	56	0.255	0.0674	0.0771	0.0811	0.0811	69	69	0.260	0.2801	0.3204	0.3204	0.3376
57	57	0.255	0.0670	0.0765	0.0807	0.0807	70	70	0.261	0.2848	0.3258	0.3258	0.3433
58	58	0.255	0.0689	0.0787	0.0829	0.0829	71	71	0.263	0.2960	0.3387	0.3387	0.3570
59	59	0.256	0.0786	0.0898	0.0946	0.0946	72	72	0.264	0.3154	0.3507	0.3507	0.3697
60	60	0.256	0.0862	0.0995	0.1038	0.1038	73	73	0.265	0.3350	0.3650	0.3650	0.3850
61	61	0.256	0.1042	0.1191	0.1255	0.1255	74	74	0.266	0.3550	0.3850	0.3850	0.4050
62	62	0.256	0.1247	0.1422	0.1501	0.1501	75	75	0.267	0.3750	0.4050	0.4050	0.4250
63	63	0.257	0.1518	0.1735	0.1828	0.1828							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATIVE RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH REF/METER 4.34-9E 06 2.9688E 06 3.9688E 06 1.3-29E 06
 MACH REF/FT 1.3-29E 06 3.9688E 06 3.9688E 06 1.3-29E 06
 TEST NO. 158
 RUN NO. 45

CHAN	J/C	IN(DEG K)	IN(DEG R)	Q(BTU/FT ² -SEC)	Q(BTU/FT ² -S-C)	US(BTU/FT ² -S-C)	ST(0.874)	ST(0.907)	ST(0.874)	TIME(SEC)
51	31	322.2	580.0	1.300	16.677	14.166	2.4783E-04	2.4783E-04	2.4783E-04	0.099
52	32	323.8	582.8	1.313	16.748	14.241	2.4783E-04	2.4783E-04	2.4783E-04	0.067
53	33	325.7	580.9	1.318	16.868	14.158	2.2398E-04	2.2398E-04	2.2398E-04	0.103
54	34	327.5	582.3	1.324	16.953	14.145	2.2398E-04	2.2398E-04	2.2398E-04	0.072
55	35	329.7	583.7	1.331	17.050	14.142	2.2398E-04	2.2398E-04	2.2398E-04	0.061
56	36	332.5	584.2	1.341	17.154	14.146	2.2398E-04	2.2398E-04	2.2398E-04	0.057
57	37	336.1	583.4	1.355	17.275	14.136	2.2398E-04	2.2398E-04	2.2398E-04	0.061
58	38	340.3	583.7	1.374	17.414	14.133	2.2398E-04	2.2398E-04	2.2398E-04	0.057
59	39	345.3	583.8	1.400	17.571	14.132	2.2398E-04	2.2398E-04	2.2398E-04	0.062
60	40	350.8	584.6	1.432	17.748	14.124	2.2398E-04	2.2398E-04	2.2398E-04	0.073
61	41	357.3	585.5	1.470	17.953	14.116	2.2398E-04	2.2398E-04	2.2398E-04	0.090
62	42	365.1	585.2	1.515	18.194	14.119	2.2398E-04	2.2398E-04	2.2398E-04	0.109
63	43	374.7	586.2	1.568	18.474	14.111	2.2398E-04	2.2398E-04	2.2398E-04	0.129
64	44	385.2	585.4	1.631	18.793	14.118	2.2398E-04	2.2398E-04	2.2398E-04	0.133
65	45	396.4	583.7	1.704	19.154	14.115	2.2398E-04	2.2398E-04	2.2398E-04	0.153
66	46	408.4	587.6	1.782	19.556	14.098	2.2398E-04	2.2398E-04	2.2398E-04	0.169
67	47	421.4	589.3	1.865	19.996	14.083	2.2398E-04	2.2398E-04	2.2398E-04	0.205
68	48	435.5	593.3	1.955	20.474	14.065	2.2398E-04	2.2398E-04	2.2398E-04	0.236
69	49	450.9	593.9	2.054	20.996	14.042	2.2398E-04	2.2398E-04	2.2398E-04	0.257
70	50	467.3	596.4	2.164	21.561	14.020	2.2398E-04	2.2398E-04	2.2398E-04	0.274
71	51	484.8	606.8	2.283	22.174	13.981	2.2398E-04	2.2398E-04	2.2398E-04	0.286
72	52	503.3	603.6	2.416	22.839	13.956	2.2398E-04	2.2398E-04	2.2398E-04	0.280
73	53	522.0	603.0	2.564	23.564	13.930	2.2398E-04	2.2398E-04	2.2398E-04	0.280
74	54	541.2	603.0	2.724	24.355	13.900	2.2398E-04	2.2398E-04	2.2398E-04	0.280
75	55	560.7	603.0	2.896	25.214	13.870	2.2398E-04	2.2398E-04	2.2398E-04	0.280

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.7622E-01 (SLUGS/FT²-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 96
CONSTANT SET S11

PACH RE/METER REL 1.3E22E C6
 PACH RE/FT 1.3E22E C6
 S-10 4.5E75E CF 1.3E22E C6

REL LENGTH(C6) 3.000
 REL LENGTH(FT) 3.000
 FT(ATM) 4.50
 FT(PSI) 67.56

TI(DEC K) 1117.9
 TI(DEC R) 2012.2
 P(JC/L/CG) 1.18C7E C6
 P(I/BL/L/RP) 507.72

RS(METER) C.3048
 RS(FT) 1.0000
 HAM/HT 1.000
 H/MS(0.907) H/MS(0.874)

Q/US 0.0002
 HM/HT 0.259
 T/C 11

CHAN 11
 H/MS(1.000) H/MS(0.907) H/MS(0.874)
 Q/US 0.0002
 HM/HT 0.259
 T/C 11

11 11
 12 12
 13 13
 14 14
 15 15
 16 16
 17 17
 18 18
 19 19
 20 20

CHAN	T/C	P/FT	Q/US	HM/HT	T/C	CHAN	T/C	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
1	1	C.280	C.0740	C.0847	11	11	0.259	0.0002	0.0002	0.0002
2	2	C.260	C.0709	C.0811	12	12	0.259	0.0009	0.0011	0.0011
3	3	C.260	C.0459	C.0570	13	13	0.259	0.0316	0.0361	0.0381
4	4	C.255	C.0146	0.0167	14	14	0.260	0.0558	0.0639	0.0673
5	5	C.255	C.0012	0.0014	15	15	0.260	0.0736	0.0842	0.0887
6	6	C.255	C.0002	0.0002	16	16	0.260	0.0825	0.0944	0.0995
7	7	C.259	C.0002	0.0002	17	17	0.260	0.0798	0.0913	0.0962
8	8	C.258	C.0002	0.0002	18	18	0.261	0.0734	0.0839	0.0885
9	9	C.258	C.0002	0.0002	19	19	0.260	0.0669	0.0766	0.0807
10	10	C.259	C.0002	0.0002	20	20	0.260	0.0700	0.0801	0.0844

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 46

PACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	MT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.	
5.10	1.478E C6	1.3522E 06	4.60	1117.5	1.1807E C6	0.3048	1.000	46	
PACH	RE/FT	REL LENGTH(FT)	FT(PSI)	TT(DEG R)	M(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.	
5.10	4.5315E C5	1.3522E 06	67.66	2012.2	507.72	1.0000	1.000	46	
CHAN	Y/C	TM(DEG K)	WM(CM2)	W(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(C-907)	ST(O-874)	TIME(SEC)
1	1	303.5	0.653	0.531	8.145	7.177	4.1813E-04	4.4660E-04	0.303
2	2	306.2	0.577	0.308	8.138	7.171	4.0051E-04	4.2205E-04	0.285
3	3	305.7	0.466	0.358	8.144	7.176	2.8157E-04	2.9670E-04	0.115
4	4	305.4	0.119	0.105	8.149	7.181	8.2379E-05	8.6803E-05	0.430
5	5	304.5	0.019	0.009	8.155	7.186	6.9501E-06	7.3231E-06	-0.261
6	6	304.0	0.001	0.001	8.160	7.190	9.7292E-07	1.0250E-06	-3.334
7	7	303.6	0.001	0.001	8.163	7.193	9.3573E-07	9.8588E-07	-1.417
8	8	303.5	-0.002	-0.001	8.165	7.194	-1.0692E-06	-1.1255E-06	2.560
9	9	303.7	0.000	0.000	8.163	7.193	3.6500E-10	3.7983E-10	*****
10	10	303.5	-0.001	-0.001	8.161	7.191	-8.5984E-07	-9.4856E-07	2.470
11	11	304.2	0.002	0.001	8.158	7.188	1.1246E-06	1.1850E-06	-1.774
12	12	304.4	0.008	0.007	8.155	7.186	5.3103E-06	5.5953E-06	1.031
13	13	304.5	0.258	0.227	8.155	7.186	1.7843E-04	1.8800E-04	0.527
14	14	305.2	0.455	0.4	8.147	7.178	3.1528E-04	3.3221E-04	-0.013
15	15	305.5	0.599	0.526	8.141	7.174	4.1563E-04	4.3797E-04	0.035
16	16	305.9	0.872	0.592	8.131	7.173	4.6608E-04	4.9114E-04	0.196
17	17	306.2	0.690	0.572	8.138	7.171	4.5091E-04	4.7516E-04	0.274
18	18	306.4	0.597	0.526	8.136	7.169	4.1452E-04	4.3682E-04	0.259
19	19	306.0	0.545	0.480	8.140	7.172	3.7808E-04	3.9841E-04	0.243
20	20	305.6	0.570	0.502	8.143	7.175	3.9544E-04	4.1669E-04	0.248

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2021E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

PRELIMINARY DATA ***
TEST NO. 158
RUN NO. 46

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. ***											
PACH		REL		PT(ATM)		HT(JOULE/KG)		HAW/HT			
5.10	1.4788E C6	1.3522E C6	C.914	1117.9	1.1807E 06	0.3048	1.000	0.3048	1.000		
PACH		REL		PT(PSI)		HT(BTU/LRP)		HAW/HT			
5.10	4.5015E C5	1.3522E C6	3.000	67.66	507.72	1.0000	1.0000	1.0000	1.0000		
H/HS(1.000) H/HS(0.907) H/HS(0.874) H/HS(0.874)											
CHAN	T/C	H/HT	G/CS	H/HS(1.000)	H/HS(0.907)	F/HS(0.874)	CHAN	T/C	HAW/HT	Q/QS	
21	61	C.260	C.C602	0.6602	C.0688	0.0725	39	79	0.259	0.0335	0.0303
22	62	C.260	C.C596	0.6596	0.6681	0.0718	40	80	0.259	0.0483	0.0582
23	63	C.258	C.C602	0.6602	0.6003	0.0003	41	81	0.260	0.0560	0.0675
24	64	C.258	C.C605	0.6605	0.0005	0.0006	42	82	0.260	0.0541	0.0653
25	65	C.258	C.C622	0.6622	0.0025	0.0026	43	83	0.260	0.0558	0.0672
26	66	C.259	C.C645	0.6645	0.0054	0.0054	44	84	0.260	0.0553	0.0666
27	67	C.255	C.C686	0.6686	0.0059	0.0105	45	85	0.260	0.0550	0.0663
28	68	C.259	C.0346	0.0346	0.0396	0.0417	46	86	0.259	0.0008	0.0059
29	69	****	****	****	****	****	47	87	0.259	0.0049	0.0056
30	70	C.260	C.C560	0.6560	0.0644	0.0675	48	88	0.259	0.0228	0.0261
31	71	C.260	C.C591	0.6591	0.0675	0.0713	49	89	0.260	0.0393	0.0449
32	72	C.260	C.0585	0.0585	0.0670	0.0706	50	90	0.260	0.0517	0.0592
33	73	C.260	C.0568	0.0568	0.0650	0.0685	51	91	0.260	0.0581	0.0665
34	74	****	****	****	****	****	52	92	0.260	0.0548	0.0627
35	75	C.255	C.0529	0.0529	0.0605	0.0637	53	93	0.260	0.0590	0.0674
36	76	C.255	C.C609	0.6009	0.0011	0.0011	54	94	0.260	0.0549	0.0628
37	77	C.259	C.C657	0.0657	0.0065	0.0069	55	95	0.260	0.0572	0.0655
38	78	C.259	C.C223	0.0223	0.0255	0.0269					

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JGULE/KG)	RS(METER)	HAM/HT	TEST NO.
5-10	1.4788E C6	1.3522E C6	4.60	1117.5	1.1807E C6	C.3048	1.000	158
PACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEC R)	HT(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.
5-20	4.5079E C5	1.3522E 06	3.000	2012.2	507.72	1.0000	1.000	46

CHAN	T/C	Tm(DEC R)	C(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(G.971)	ST(O.874)	TIME(SEC)
21	61	545.8	0.450	0.432	8.145	7.177	3.3986E-04	3.5812E-04	0.100
22	62	550.8	0.485	0.427	8.142	7.174	3.3636E-04	3.5445E-04	0.114
23	63	545.6	0.002	0.002	8.168	7.198	1.3087E-06	1.3788E-06	1.329
24	64	546.1	0.004	0.003	8.166	7.195	2.5800E-06	2.7182E-06	0.774
25	65	546.4	0.018	0.016	8.164	7.194	1.2171E-05	1.2823E-05	0.393
26	66	547.1	0.037	0.032	8.160	7.190	2.5330E-05	2.6688E-05	0.352
27	67	547.6	0.070	0.062	8.158	7.188	4.8734E-05	5.1348E-05	0.416
28	68	548.3	0.282	0.248	8.154	7.184	1.9533E-04	2.0581E-04	0.140
29	69	-C.C	*****	*****	*****	*****	*****	*****	0.000
30	70	549.2	0.456	0.402	8.149	7.180	3.1828E-04	3.3325E-04	0.215
31	71	549.9	0.482	0.424	8.145	7.177	3.3394E-04	3.5188E-04	0.087
32	72	549.5	0.477	0.420	8.145	7.177	3.3062E-04	3.4838E-04	0.083
33	73	550.6	0.463	0.408	8.144	7.176	3.2094E-04	3.3819E-04	0.084
34	74	-C.C	*****	*****	*****	*****	*****	*****	0.000
35	75	548.9	0.421	0.360	8.151	7.182	2.9863E-04	3.1467E-04	0.022
36	76	547.6	0.008	0.007	8.161	7.191	5.2385E-06	5.5193E-06	0.659
37	77	547.4	0.046	0.041	8.158	7.189	3.2167E-05	3.3892E-05	0.697
38	78	548.0	0.182	0.160	8.155	7.186	1.2588E-04	1.3263E-04	0.348
39	79	548.6	0.273	0.241	8.152	7.183	1.8932E-04	1.9948E-04	-0.137
40	80	545.0	0.353	0.347	8.150	7.181	2.7262E-04	2.8725E-04	-0.236
41	81	550.4	0.456	0.402	8.142	7.174	3.1638E-04	3.3358E-04	0.055
42	82	550.8	0.441	0.388	8.140	7.172	3.0577E-04	3.2222E-04	0.061
43	83	551.0	0.454	0.400	8.139	7.171	3.1494E-04	3.3186E-04	0.057
44	84	550.7	0.450	0.396	8.140	7.173	3.1214E-04	3.2892E-04	0.043
45	85	545.5	0.448	0.395	8.147	7.178	3.1052E-04	3.2721E-04	0.046
46	86	547.4	0.006	0.006	8.158	7.189	4.4806E-06	4.7209E-06	0.233
47	87	548.3	0.040	0.035	8.154	7.185	2.7738E-05	2.9227E-05	0.689
48	88	548.5	0.186	0.164	8.151	7.182	1.2890E-04	1.3583E-04	0.445
49	89	545.5	0.320	0.282	8.147	7.179	2.2181E-04	2.3372E-04	-0.213
50	90	549.7	0.421	0.371	8.146	7.178	2.9220E-04	3.0790E-04	-0.194
51	91	550.2	0.473	0.417	8.143	7.175	3.2839E-04	3.4604E-04	0.068
52	92	550.2	0.446	0.393	8.143	7.175	3.0959E-04	3.2623E-04	0.046
53	93	549.5	0.480	0.423	8.147	7.179	3.3304E-04	3.5093E-04	0.107
54	94	550.1	0.447	0.394	8.144	7.176	3.1027E-04	3.2894E-04	0.030
55	95	549.8	0.466	0.411	8.145	7.177	3.2326E-04	3.4063E-04	0.039

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2021E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	FT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	1.4652E C6	1.3434E C6	0.914	4.60	1.1857E C6	0.3048	1.000	158
MACH	RE/FT	REL LENGTH(FT)	PT(PST)	TT(DEG R)	FT(LBTL/LBP)	RS(FT)	HAW/HT	RUN NO.
5.10	4.4780E C5	1.3434E C6	3.063	2020.1	509.89	1.0000	1.000	46

CHAN	T/C	W/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CFAN	T/C	W/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	41	0.259	C.0624	0.0624	0.0713	0.0752	66	51	0.258	0.0012	0.0012	0.0014	0.0015
57	42	C.0587	0.0587	0.0671	0.0707	C.0707	67	52	0.258	0.0042	C.0042	C.0048	0.0051
58	43	C.0259	C.0488	0.0558	0.0588	0.0588	68	53	C.259	0.0344	0.0344	0.0393	0.0414
59	44	0.259	C.0145	0.0166	0.0175	0.0175	69	54	0.259	0.0526	0.0526	0.0602	0.0634
60	45	C.0029	0.0029	0.0033	0.0034	0.0034	70	55	0.259	0.0638	0.0638	0.0730	0.0769
61	46	0.258	C.0001	0.0001	0.0001	0.0001	71	56	0.260	0.0740	C.0740	C.0846	0.0892
62	47	C.0000	C.0000	0.0000	0.0000	0.0000	72	57	C.260	0.0687	C.0687	0.0786	0.0823
63	48	C.0003	-0.0003	-0.0004	-0.0004	-0.0004	73	58	0.260	0.0654	0.0654	0.0747	0.0788
64	49	C.0006	-0.0006	-0.0007	-0.0007	-0.0007	74	59	0.259	0.0623	0.0623	0.0712	0.0750
65	50	C.0003	0.0003	0.0003	0.0003	0.0003	75	60	0.259	0.0602	C.0602	C.0689	0.0725

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 1.4652E C6 1.3434E C6 3.000 67.66 2020.1 509.89 1.000C 1.000C 1.000C
 REZ/METER REL LENGTH(METER) P(T(ATM) T(DEC K) HT(JULLE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 1.4652E C6 1.3434E C6 3.000 67.66 2020.1 509.89 1.000C 1.000C 1.000C
 MACH 5.10 4.4782E C5 1.3434E C6 3.000 67.66 2020.1 509.89 1.000C 1.000C 1.000C

CPAN	T/C	T(DEC K)	T(DEC R)	Q(W/CM2)	C(HU/FT2-SEC)	CS(W/CM2)	CS(RTW/FT2-SEC)	STLC(907)	ST(0.874)	TIME(SEC)
56	41	306.2	511.1	0.511	0.450	8.185	7.212	3.532E-04	3.7229E-04	0.076
57	42	306.6	511.8	0.480	0.423	8.181	7.208	3.3226E-04	3.5011E-04	0.059
58	43	306.1	511.1	0.400	0.352	8.185	7.212	2.7641E-04	2.9125E-04	-0.031
59	44	305.8	510.1	0.119	0.105	8.191	7.217	8.2279E-05	8.6893E-05	0.402
60	45	305.3	509.6	0.023	0.021	8.193	7.219	1.6216E-05	1.7086E-05	0.501
61	46	304.6	508.3	0.000	0.000	8.200	7.225	2.9827E-07	3.1425E-07	-2.350
62	47	304.2	507.6	0.000	0.000	8.204	7.229	7.6601E-08	8.0702E-08	21.212
63	48	303.8	506.8	-0.003	-0.002	8.209	7.233	-1.7995E-06	-1.8958E-06	0.239
64	49	303.0	507.2	-0.005	-0.004	8.206	7.231	-3.3695E-06	-3.5498E-06	0.538
65	50	303.8	506.8	0.002	0.002	8.209	7.233	1.5488E-06	1.6313E-06	3.704
66	51	304.2	507.6	0.010	0.009	8.204	7.229	6.8670E-06	7.2347E-06	1.118
67	52	304.6	508.3	0.035	0.030	8.200	7.226	2.3838E-05	2.5115E-05	0.565
68	53	305.3	509.6	0.281	0.248	8.193	7.220	1.9452E-04	2.0495E-04	0.304
69	54	305.5	509.6	0.431	0.380	8.191	7.218	2.9812E-04	3.1412E-04	-0.272
70	55	305.9	510.6	0.523	0.460	8.188	7.215	3.6144E-04	3.8083E-04	-0.231
71	56	306.4	511.5	0.605	0.533	8.183	7.210	4.1899E-04	4.4150E-04	0.084
72	57	306.7	512.1	0.562	0.495	8.180	7.207	3.8902E-04	4.0992E-04	0.059
73	58	306.6	511.8	0.535	0.471	8.181	7.209	3.7011E-04	3.8999E-04	0.082
74	59	306.3	511.3	0.510	0.449	8.184	7.211	3.5263E-04	3.7156E-04	0.067
75	60	305.7	510.2	0.483	0.435	8.190	7.217	3.4098E-04	3.5927E-04	0.059

FREE-STREAM LENGTH-VELOCITY PRODUCT = 1.01936E-01 (STUGS/FT2-SEC)

PROBE AC. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 47
 MACH 5.10
 PACH 5.10
 REL LENGTH(METER) 2.1623E C6
 REL LENGTH(FT) 3.914
 REL LENGTH(IN) 2.1623E C6
 REL LENGTH(FT) 3.914
 PT(ATM) 8.27
 PT(PSI) 121.53
 TT(DEC K) 1197.3
 TT(DEC R) 2155.1
 HT(JOLLE/KG) 1.2731E C6
 HT(LBU/LBM) 547.48
 RS(FT) 1.0000
 HAW/HT 1.0000
 H/HS(1.000) H/HS(0.907) H/HS(0.874)

CHAN	T/C	FW/HT	W/CS	F/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	FW/HT	G/HS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.244	C.C657	C.C657	0.0749	0.0738	11	11	0.243	-0.0014	-0.0016	-0.0016	-0.0017
2	2	0.245	C.C625	C.C625	C.C717	0.0755	12	12	0.243	-0.0028	-0.0031	-0.0031	-0.0033
3	3	0.245	C.C433	0.0433	0.0494	0.0520	13	13	0.243	0.3294	C.C294	0.0335	0.0352
4	4	0.244	C.C118	C.C118	0.0135	0.0142	14	14	0.244	0.0487	0.0487	0.0535	0.0584
5	5	0.243	C.C008	C.C008	0.0009	0.0009	15	15	0.245	0.0646	0.0646	0.0736	0.0775
6	6	0.243	-C.C003	-C.C003	-C.C004	-C.C004	16	16	0.245	0.0744	0.0744	0.0848	0.0893
7	7	0.242	-C.C003	-C.C003	-0.0003	-0.0003	17	17	0.246	0.0719	0.0719	0.0820	0.0863
8	8	0.242	-C.C006	-C.C006	-0.0007	-0.0007	18	18	0.246	0.0657	C.C657	0.0749	0.0789
9	9	0.242	-C.C013	-C.C013	-0.0014	-0.0015	19	19	0.245	0.0586	0.0586	0.0668	0.0703
10	10	0.243	-C.C017	-C.C017	-0.0019	-0.0020	20	20	0.244	0.0614	0.0614	0.0700	0.0736

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 QZ/METER 2.3648E C6 REL LENGTH(METER) 0.914 PI(ATM) 9.27 TI(CEG K) 1197.3 HT(JOULE/KG) 1.2731E C6 RS(METER) 0.3048 HAM/HT 1.000 TEST NO. 158
 MACH 5.10 QZ/FT 7.278E C5 REL LENGTH(FT) 3.000 PI(PST) 121.53 TI(DEC R) 2155.1 FT(LBTU/LBM) 547.40 RS(FT) 1.0000 HAM/HT 1.000 RUN NO. 47

CHAN	T/C	T(CEG K)	T(CEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	Q(SI-W/CM2)	Q(SI-BTU/FT2-SEC)	SI(G-907)	SI(0-874)	TIME(SEC)
1	1	309.4	556.9	0.789	0.695	12.007	10.579	2.9037E-04	3.0558E-04	0.254
2	2	311.1	555.5	0.754	0.664	11.984	10.560	2.7807E-04	2.9267E-04	0.233
3	3	310.2	558.4	0.520	0.458	11.596	10.570	1.9155E-04	2.0160E-04	0.049
4	4	309.4	556.9	0.142	0.125	12.007	10.580	5.2379E-05	5.5123E-05	0.219
5	5	308.5	555.2	0.009	0.008	12.019	10.590	3.4779E-06	3.6599E-06	-1.611
6	6	307.5	553.6	-0.004	-0.004	12.032	10.601	-1.4653E-06	-1.5419E-06	3.924
7	7	306.9	552.3	0.003	-0.003	12.041	10.610	-1.1086E-06	-1.1665E-06	2.929
8	8	306.5	551.8	-0.007	-0.006	12.045	10.613	-2.5947E-06	-2.7302E-06	1.739
9	9	306.5	552.4	-0.015	-0.013	12.041	10.609	-5.5746E-06	-5.8679E-06	1.355
10	10	307.5	553.4	-0.020	-0.018	12.033	10.602	-7.4646E-06	-7.8547E-06	1.410
11	11	308.0	554.4	-0.017	-0.015	12.025	10.596	-6.2516E-06	-6.5789E-06	1.988
12	12	308.5	555.3	-0.033	-0.029	12.019	10.590	-1.2166E-05	-1.2802E-05	1.398
13	13	308.6	555.4	0.353	0.311	12.018	10.589	1.2978E-04	1.3657E-04	0.512
14	14	305.5	557.6	0.584	0.515	12.050	10.573	2.1534E-04	2.2663E-04	-0.147
15	15	310.5	558.9	0.774	0.682	11.992	10.566	2.8549E-04	3.0046E-04	-0.072
16	16	310.5	559.7	0.891	0.785	11.986	10.561	3.2878E-04	3.4604E-04	0.139
17	17	311.3	560.3	0.861	0.759	11.981	10.537	3.1793E-04	3.3463E-04	0.235
18	18	311.5	560.8	0.787	0.693	11.978	10.554	2.9044E-04	3.0570E-04	0.209
19	19	310.6	559.1	0.702	0.619	11.990	10.565	2.5901E-04	2.7260E-04	0.173
20	20	309.7	557.5	0.736	0.649	12.002	10.575	2.7131E-04	2.8553E-04	0.169

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0493E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 47

MACH	REL	LEN	REL	LEN	REL	LEN	REL	LEN	PT(PSI)	PT(PSI)	HT(DEC R)	HT(DEC R)	HT(JULLE/KG)	RS(METER)	HAW/HT	HAW/HT	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
5.10	2.3643E C6	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	121.53	121.53	2155.1	2155.1	547.40	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
5.10	7.2078E C5	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	2.1523E C6	121.53	121.53	2155.1	2155.1	547.40	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
CPAN	T/C	FW/HT	W/S	F/HS(1.000)	F/HS(0.907)	F/HS(0.874)	CPAN	T/C	HW/HT	V/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)						
21	61	0.245	0.0506	0.0506	0.0506	0.0506	39	79	0.244	0.0338	0.0338	0.0338	0.0406						
22	62	0.246	0.0525	0.0525	0.0525	0.0525	40	80	0.245	0.0461	0.0461	0.0461	0.0554						
23	63	0.242	0.0501	0.0501	0.0501	0.0501	41	81	0.245	0.0519	0.0519	0.0519	0.0623						
24	64	0.242	0.0506	0.0506	0.0506	0.0506	42	82	0.246	0.0497	0.0497	0.0497	0.0595						
25	65	0.243	0.0522	0.0522	0.0522	0.0522	43	83	0.246	0.0514	0.0514	0.0514	0.0618						
26	66	0.243	0.0549	0.0549	0.0549	0.0549	44	84	0.246	0.0532	0.0532	0.0532	0.0639						
27	67	0.244	0.0591	0.0591	0.0591	0.0591	45	85	0.245	0.0535	0.0535	0.0535	0.0642						
28	68	0.244	0.0536	0.0536	0.0536	0.0536	46	86	0.243	0.0609	0.0609	0.0609	0.0610						
29	69	0.245	0.0597	0.0597	0.0597	0.0597	47	87	0.244	0.0648	0.0648	0.0648	0.0011						
30	70	0.245	0.0497	0.0497	0.0497	0.0497	48	88	0.244	0.0224	0.0224	0.0224	0.0058						
31	71	0.246	0.0527	0.0527	0.0527	0.0527	49	89	0.245	0.0390	0.0390	0.0390	0.0269						
32	72	0.246	0.0506	0.0506	0.0506	0.0506	50	90	0.245	0.0495	0.0495	0.0495	0.0468						
33	73	0.246	0.0518	0.0518	0.0518	0.0518	51	91	0.245	0.0547	0.0547	0.0547	0.0594						
34	74	0.245	0.0578	0.0578	0.0578	0.0578	52	92	0.245	0.0509	0.0509	0.0509	0.0637						
35	75	0.245	0.0507	0.0507	0.0507	0.0507	53	93	0.245	0.0509	0.0509	0.0509	0.0611						
36	76	0.243	0.0508	0.0508	0.0508	0.0508	54	94	0.245	0.0533	0.0533	0.0533	0.0646						
37	77	0.243	0.0553	0.0553	0.0553	0.0553	55	95	0.245	0.0533	0.0533	0.0533	0.0640						
38	78	0.244	0.0224	0.0224	0.0224	0.0224	55	95	0.245	0.0567	0.0567	0.0567	0.0680						

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.3048E C6 2.1623E C6 2.1623E C6 3.0000
 RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RSMETER) PAM/HT TEST NO. 158
 PACH RE/FT REL LENGTH(FT) PI(PSI) TI(DEC R) PI(BTU/LBM) RS(FT) PAM/HT RUN NO. 47
 5.10 7.2078E C5 2.1623E C6 121.53 2155.1 547.48 1.0000

CFAN	T/C	T/(DEG K)	T/(DEG R)	W/(CM2)	G(RTU/FT2-SEC)	C5(W/CM2)	C5(RTU/FT2-SEC)	STIC(907)	ST(0.874)	TIME(SEC)
21	61	210.3	558.5	0.607	0.535	11.995	10.569	2.2385E-04	2.3559E-04	-0.010
22	62	211.7	561.0	0.614	0.559	11.976	10.553	2.3415E-04	2.4645E-04	0.054
23	63	206.4	551.5	0.602	0.501	12.047	10.615	6.1352E-07	6.4554E-07	1.293
24	64	206.8	552.3	0.608	0.507	12.041	10.610	2.7717E-06	2.9165E-06	0.784
25	65	207.5	553.5	0.627	0.524	12.032	10.602	9.8478E-06	1.0363E-05	0.433
26	66	206.3	550.2	0.609	0.522	12.021	10.592	2.1521E-05	2.2678E-05	0.352
27	67	205.0	546.2	0.610	0.517	12.012	10.584	4.0332E-05	4.2496E-05	0.387
28	68	209.8	557.6	0.403	0.355	12.002	10.575	1.4838E-04	1.5637E-04	0.096
29	69	-0.0	-0.0	*****	*****	*****	*****	3.0546E-02	3.1100E-02	0.000
30	70	210.7	559.3	0.556	0.525	11.989	10.565	2.1974E-04	2.3127E-04	-0.311
31	71	211.4	560.5	0.631	0.556	11.980	10.556	2.3305E-04	2.4529E-04	0.007
32	72	211.5	560.7	0.606	0.534	11.978	10.554	2.2359E-04	2.3533E-04	-0.010
33	73	211.5	561.5	0.620	0.546	11.973	10.550	2.2897E-04	2.4100E-04	0.032
34	74	-0.0	-0.0	*****	*****	*****	*****	3.0546E-02	3.1100E-02	0.000
35	75	210.3	558.6	0.608	0.535	11.994	10.568	2.2359E-04	2.3574E-04	0.007
36	76	207.5	554.2	0.609	0.508	12.027	10.597	3.4265E-06	3.6056E-06	0.271
37	77	208.5	555.2	0.663	0.566	12.019	10.590	2.3320E-05	2.4541E-05	0.593
38	78	209.1	556.3	0.269	0.237	12.011	10.583	9.8850E-05	1.0403E-04	0.359
39	79	209.6	557.2	0.405	0.358	12.004	10.578	1.4559E-04	1.5743E-04	-0.092
40	80	210.1	558.1	0.554	0.488	11.998	10.572	2.0400E-04	2.1469E-04	-0.232
41	81	211.1	560.0	0.622	0.548	11.994	10.559	2.2957E-04	2.4162E-04	0.054
42	82	211.2	560.7	0.595	0.524	11.978	10.555	2.1959E-04	2.3113E-04	0.042
43	83	211.5	561.4	0.616	0.543	11.973	10.550	2.2747E-04	2.3942E-04	0.026
44	84	211.6	561.2	0.638	0.562	11.974	10.551	2.3544E-04	2.4781E-04	0.054
45	85	210.3	558.5	0.642	0.566	11.995	10.569	2.3669E-04	2.4911E-04	0.043
46	86	207.5	554.3	0.611	0.509	12.026	10.597	3.9398E-06	4.1458E-06	-0.131
47	87	208.5	556.0	0.658	0.651	12.013	10.585	2.1361E-05	2.2479E-05	0.606
48	88	209.5	557.0	0.269	0.237	12.006	10.579	9.8990E-05	1.0418E-04	0.434
49	89	210.1	556.2	0.468	0.412	11.997	10.571	1.7232E-04	1.8133E-04	-0.186
50	90	210.4	558.7	0.553	0.523	11.993	10.567	2.1872E-04	2.3019E-04	-0.209
51	91	210.8	559.5	0.656	0.578	11.988	10.563	2.4210E-04	2.5480E-04	0.059
52	92	211.0	559.8	0.610	0.538	11.981	10.560	2.2515E-04	2.3696E-04	0.024
53	93	210.6	555.0	0.645	0.569	11.991	10.566	2.3798E-04	2.5047E-04	0.055
54	94	210.5	555.6	0.635	0.563	11.987	10.562	2.3585E-04	2.4823E-04	0.045
55	95	210.5	558.9	0.680	0.599	11.992	10.566	2.5061E-04	2.6376E-04	0.055

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0451E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	PW/FT	C/CS	F/HS(1.000)	F/HS(0.507)	F/HS(0.874)	CHAN	T/C	HW/FT	W/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	41	0.33	0.0548	0.0624	0.0656	0.0611	66	51	0.231	0.0010	0.0011	0.0011	0.0011
57	42	0.234	0.0510	0.0561	0.0611	0.0611	67	52	0.231	0.0046	0.0046	0.0052	0.0054
58	43	0.233	0.0428	0.0497	0.0512	0.0512	68	53	0.232	0.0306	0.0306	0.0349	0.0367
59	44	0.232	0.0123	0.0140	0.0147	0.0147	69	54	0.233	0.0471	0.0471	0.0535	0.0563
60	45	0.232	0.0024	0.0028	0.0029	0.0029	70	55	0.233	0.0596	0.0596	0.0679	0.0714
61	46	0.231	0.0001	0.0001	0.0001	0.0001	71	56	0.234	0.0655	0.0655	0.0746	0.0784
62	47	0.230	0.0005	0.0006	0.0006	0.0006	72	57	0.234	0.0616	0.0616	0.0701	0.0737
63	48	0.230	0.0000	0.0010	0.0012	0.0012	73	58	0.234	0.0582	0.0582	0.0662	0.0697
64	49	0.230	0.0009	0.0010	0.0011	0.0011	74	59	0.234	0.0565	0.0565	0.0643	0.0676
65	50	0.233	0.0001	0.0001	0.0001	0.0001	75	60	0.233	0.0564	0.0564	0.0642	0.0675

MACI RE/METER REL LENGTH(ME/FT) PT(ATM) TT(DEC K) HT(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 5.10 2.1603E C6 1.8943E C6 0.914 8.27 1255.3 1.3413E C6 C.3048 1.000 47
 MACH REL LENGTH(FT) PT(PSI) TT(DEC R) HT(LBU/LBM) RS(FT) HAW/HT RUN NO.
 5.10 6.6475E C5 1.8943E D6 3.000 121.53 2255.5 576.79 1.0000 1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER WOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	TAC	TW(DEG K)	REL	TM(DEG R)	L(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	GS(BTU/FT2-SEC)	ST(C-907)	ST(O-874)	TIME(SEC)	TEST NO.	RUN NO.	MAW/HT	
														1.000	1.000
50	41	311.0	555.5	0.703	0.619	11.294	12.818	2.5070E-04	2.6360E-04	0.105	0.077	158	47	1.000	1.000
57	42	312.2	561.9	0.653	0.576	11.281	12.802	2.3338E-04	2.4341E-04	0.077	-0.073			1.000	1.000
58	43	311.4	560.6	0.549	0.483	11.289	12.812	1.9587E-04	2.0596E-04	0.304	0.304			1.000	1.000
59	44	310.3	558.6	0.150	0.139	11.303	12.827	5.6165E-05	5.9054E-05	0.280	0.280			1.000	1.000
60	45	305.7	557.4	0.031	0.027	11.310	12.836	1.1090E-05	1.1659E-05	0.632	0.632			1.000	1.000
61	46	308.4	555.1	-0.001	-0.001	11.326	12.854	-3.4482E-07	-3.6252E-07	0.765	0.765			1.000	1.000
62	47	307.8	553.5	-0.007	-0.007	11.336	12.865	-2.4852E-06	-2.6125E-06	0.600	0.600			1.000	1.000
63	48	306.0	552.4	-0.013	-0.012	11.344	12.874	-4.6643E-06	-4.9032E-06	0.600	0.600			1.000	1.000
64	45	307.2	553.0	-0.012	-0.010	11.340	12.869	-4.1847E-06	-4.3992E-06	0.600	0.600			1.000	1.000
65	50	307.2	553.1	-0.001	-0.001	11.339	12.869	-3.5507E-07	-3.6869E-07	0.961	0.961			1.000	1.000
66	51	308.0	554.4	0.012	0.011	11.331	12.859	4.3785E-06	4.6031E-06	0.649	0.649			1.000	1.000
67	52	306.6	555.8	0.058	0.052	11.321	12.848	2.0817E-05	2.1886E-05	0.302	0.302			1.000	1.000
68	53	310.1	558.2	0.393	0.346	11.305	12.831	1.4015E-04	1.4736E-04	0.280	0.280			1.000	1.000
69	54	310.8	558.5	0.603	0.532	11.297	12.821	2.1523E-04	2.2630E-04	0.177	0.177			1.000	1.000
70	55	311.4	560.5	0.764	0.673	11.290	12.813	2.7272E-04	2.8676E-04	0.091	0.091			1.000	1.000
71	56	312.5	562.4	0.838	0.739	11.278	12.799	2.9965E-04	3.1510E-04	0.084	0.084			1.000	1.000
72	57	312.6	563.2	0.788	0.694	11.272	12.793	2.8181E-04	2.9633E-04	0.085	0.085			1.000	1.000
73	58	312.8	563.0	0.745	0.656	11.273	12.794	2.6617E-04	2.7990E-04	0.077	0.077			1.000	1.000
74	55	312.2	562.0	0.723	0.637	11.280	12.802	2.5825E-04	2.7156E-04	0.089	0.089			1.000	1.000
75	60	310.8	559.4	0.723	0.637	11.297	12.821	2.5807E-04	2.7139E-04						

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.9741E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 5.10 3.0287E C6 3.3254E C6 0.914 11.59 1133.8 1.1991E 06 0.3048 1.000 1.000
 PACH 5.10 1.1085E C6 3.3254E C6 3.000 170.39 2040.9 515.65 1.0000
 REL LENGTH(METER) PT(ATM) TT(DEC K) FT(JCULE/KG) RS(METER) HAW/HT TEST NO. 158
 REL LENGTH(FT) PT(PST) TT(DEC R) MT(BTU/LBM) AS(FT) HAW/HT RUN NO. 48
 CONSTANT SET 511

CHAN	T/C	H/W/FT	C/CS	F/HS(1.000)	F/HS(0.507)	F/HS(0.874)	CFAN	T/C	H/W/HT	Q/US	M/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.260	0.0665	0.0765	0.0806	0.0806	11	11	0.259	-0.0017	-0.0017	-0.0020	-0.0021
2	2	0.261	0.0639	0.0731	0.0770	0.0770	12	12	0.259	-0.0026	-0.0026	-0.0030	-0.0032
3	3	0.261	0.0429	0.0450	0.0517	0.0517	13	13	0.259	0.0314	0.0314	0.0359	0.0373
4	4	0.260	0.0119	0.0136	0.0143	0.0143	14	14	0.260	0.0483	0.0483	0.0552	0.0582
5	5	0.259	0.0007	0.0008	0.0008	0.0008	15	15	0.251	0.0655	0.0655	0.0750	0.0790
6	6	0.259	-0.0002	-0.0003	-0.0003	-0.0003	16	16	0.261	0.0764	0.0764	0.0874	0.0921
7	7	0.258	-0.0003	-0.0003	-0.0004	-0.0004	17	17	0.261	0.0744	0.0744	0.0851	0.0897
8	8	0.257	-0.0008	-0.0010	-0.0010	-0.0010	18	18	0.262	0.0676	0.0676	0.0773	0.0815
9	9	0.258	-0.0014	-0.0016	-0.0017	-0.0017	19	19	0.261	0.0592	0.0592	0.0677	0.0714
10	10	0.258	-0.0018	-0.0020	-0.0021	-0.0021	20	20	0.261	0.0637	0.0637	0.0728	0.0767

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 3.6254E C6 REL LENGTH(METER) 3.000
 MACH 5.10 RE/FT 3.3254E C6 REL LENGTH(FT) 3.000
 T(DEG K) 2040.9 T(DEG R) 3715.65
 HT (JULLE/KG) 1.1991E C6 HT (METER) 1.0000
 RS(METER) C.3048 RS(FT) 1.0000
 HAM/HT 1.000 HAM/HT 1.000
 TEST NO. 158 TEST NO. 48
 RUN NO. 48

CHAN	T/C	TW(EG K)	TW(EG R)	C(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	GS(907)	ST(C.874)	TIME(SEC)
1	1	210.6	355.1	0.677	0.773	13.116	11.557	2.4051E-04	2.5344E-04	0.180
2	2	212.1	561.7	0.837	0.737	13.093	11.547	2.2975E-04	2.4212E-04	0.142
3	3	211.2	563.1	0.562	0.495	13.107	11.549	1.5414E-04	1.6244E-04	-0.068
4	4	210.2	558.3	0.156	0.137	13.123	11.563	4.2701E-05	4.4995E-05	0.005
5	5	205.2	558.6	0.009	0.009	13.138	11.576	2.4958E-06	2.6296E-06	-3.139
6	6	208.2	555.0	-0.003	-0.003	13.152	11.589	-8.6858E-07	-9.1513E-07	6.375
7	7	207.7	553.9	-0.004	-0.004	13.162	11.598	-1.0597E-06	-1.1165E-06	2.592
8	8	207.4	553.4	-0.011	-0.010	13.167	11.602	-3.0006E-06	-3.1612E-06	1.431
9	9	207.7	553.8	-0.013	-0.016	13.163	11.598	-4.9287E-06	-5.2032E-06	1.249
10	10	208.1	554.7	-0.023	-0.020	13.155	11.592	-6.3158E-06	-6.6542E-06	1.410
11	11	208.7	555.6	-0.023	-0.020	13.147	11.584	-6.2113E-06	-6.5444E-06	1.948
12	12	205.1	556.4	-0.035	-0.030	13.140	11.578	-9.4478E-06	-9.9547E-06	1.355
13	13	205.2	556.5	0.412	0.363	13.139	11.577	1.1270E-04	1.1875E-04	0.914
14	14	205.6	559.1	0.633	0.558	13.116	11.557	1.7357E-04	1.8290E-04	-0.347
15	15	211.2	560.3	0.859	0.757	13.105	11.548	2.3565E-04	2.4833E-04	-0.216
16	16	211.7	561.1	1.000	0.882	13.099	11.542	2.7462E-04	2.8970E-04	0.040
17	17	212.1	561.8	0.974	0.858	13.092	11.536	2.6757E-04	2.8198E-04	0.162
18	18	212.5	562.5	0.884	0.779	13.086	11.531	2.4296E-04	2.5005E-04	0.131
19	19	211.7	561.1	0.775	0.683	13.099	11.542	2.1287E-04	2.2433E-04	0.071
20	20	211.1	560.0	0.834	0.735	13.108	11.550	2.2886E-04	2.4117E-04	0.100

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9956E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***																	
PACH		RE/FEETER	REL LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	MAW/HT	TEST NO.								
5-10	3.5675E C6	3.2621E C6	3.914	11.59	1146.8	1.2142E C6	0.3048	1.000	158								
PACH		RE/FT	REL LENGTH(FT)	PT(PST)	TY(DEC R)	H(BTU/LBM)	RS(FT)	MAW/HT	RUN NO.								
5-10	1.0714E C6	3.2621E C6	3.000	170.39	2064.2	322.12	1.0000	1.000	48								
CHAN	T/C	H/HT	C/CS	F/HS(L.874)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	Q/CS	H/HT	T/C	CHAN	T/C	H/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	61	C.258	C.C551	C.0630	0.0663	0.0663	0.0663	0.0291	0.257	79	39	79	0.257	0.0291	0.0333	0.0351	0.0351
22	62	C.258	C.C559	C.0651	0.0686	0.0686	0.0686	0.0412	0.257	80	40	80	0.257	0.0412	0.0471	0.0496	0.0496
23	63	C.255	C.CC02	C.0002	0.0002	0.0002	0.0002	0.0534	0.258	81	41	81	0.258	0.0534	0.0610	0.0643	0.0643
24	64	C.255	C.CC06	0.0006	0.0007	0.0007	0.0007	0.0517	0.259	82	42	82	0.259	0.0517	0.0591	0.0623	0.0623
25	65	C.255	C.CC21	0.0021	0.0025	0.0025	0.0025	0.0558	0.259	83	43	83	0.259	0.0558	0.0638	0.0673	0.0673
26	66	C.256	C.CC42	0.0042	0.0051	0.0051	0.0051	0.0601	0.259	84	44	84	0.259	0.0601	0.0687	0.0724	0.0724
27	67	C.256	C.CC86	0.0086	0.0104	0.0104	0.0104	0.0632	0.258	85	45	85	0.258	0.0632	0.0723	0.0762	0.0762
28	68	C.257	C.C339	0.0339	0.0409	0.0409	0.0409	0.0008	0.256	86	46	86	0.256	0.0008	0.0009	0.0009	0.0009
29	69	*****	*****	*****	*****	*****	*****	0.0048	0.256	87	47	87	0.256	0.0048	0.0055	0.0057	0.0057
30	70	C.258	C.C506	0.0506	0.0609	0.0609	0.0609	0.0224	0.257	88	48	88	0.257	0.0224	0.0256	0.0269	0.0269
31	71	C.258	C.C557	0.0557	0.0671	0.0671	0.0671	0.0375	0.257	89	49	89	0.257	0.0375	0.0429	0.0452	0.0452
32	72	C.258	C.C534	0.0534	0.0643	0.0643	0.0643	0.0491	0.258	90	50	90	0.258	0.0491	0.0561	0.0591	0.0591
33	73	C.255	C.C588	0.0588	0.0672	0.0672	0.0672	0.0536	0.258	91	51	91	0.258	0.0536	0.0647	0.0632	0.0632
34	74	*****	*****	*****	*****	*****	*****	0.0533	0.258	92	52	92	0.258	0.0533	0.0610	0.0642	0.0642
35	75	C.258	C.C621	0.0621	0.0748	0.0748	0.0748	0.0594	0.258	93	53	93	0.258	0.0594	0.0680	0.0716	0.0716
36	76	C.256	C.C612	0.0612	0.0014	0.0014	0.0014	0.0599	0.258	94	54	94	0.258	0.0599	0.0685	0.0722	0.0722
37	77	C.256	C.C656	0.0656	0.0064	0.0064	0.0064	0.0680	0.258	95	55	95	0.258	0.0680	0.0685	0.0722	0.0722
38	78	C.256	C.C211	0.0211	0.0254	0.0254	0.0254	0.0680	0.258	95	55	95	0.258	0.0680	0.0685	0.0722	0.0722

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACH RE/METER REL LENGTH(METER) PT(ATM) TT(CEG K) FT(JCULE/KG) RS(METER) PAM/HT TEST NO. 158
 5.10 3.5675E C6 3.2621E C6 0.514 11.59 1146.8 1.2142E 06 0.3048 1.000 RUN NO. 48
 PACH RE/FT REL LENGTH(FT) PT(PSI) TT(CEG R) MT(BTU/LBM) RS(FT) HAM/HT
 5.10 1.0874E C6 3.2621E 06 3.000 170.39 2084.2 522.12 1.0000 1.000

CHAN	T/C	TIME(CEG K)	TIME(CEG R)	G(LW/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	STIO(907)	STIO(874)	TIME(SEC)
21	61	311.6	560.8	0.734	0.647	13.322	11.738	1.9958E-04	2.1027E-04	0.014
22	62	312.4	562.3	0.757	0.667	13.309	11.727	2.0622E-04	2.1728E-04	0.061
23	53	307.6	554.0	0.002	0.002	13.382	11.791	6.7115E-07	7.0690E-07	2.393
24	64	308.1	554.6	0.007	0.007	13.377	11.787	2.0276E-06	2.1357E-06	0.636
25	65	308.7	555.6	0.028	0.024	13.368	11.779	7.4971E-06	7.8970E-06	-0.024
26	66	309.3	556.8	0.056	0.049	13.357	11.770	1.5202E-05	1.6014E-05	-0.146
27	67	310.0	558.0	0.115	0.101	13.347	11.761	3.1220E-05	3.2888E-05	0.136
28	68	310.7	559.3	0.453	0.399	13.336	11.750	1.2296E-04	1.2954E-04	-0.026
29	65	-0.0	-0.0	*****	*****	*****	*****	2.2499E-04	2.2934E-04	0.000
30	70	311.6	560.9	0.674	0.594	13.321	11.738	1.8326E-04	1.9307E-04	-0.430
31	71	312.3	562.2	0.741	0.653	13.310	11.728	2.0187E-04	2.1269E-04	-0.037
32	72	312.4	562.2	0.711	0.626	13.309	11.727	1.9357E-04	2.0394E-04	-0.050
33	73	312.6	563.0	0.782	0.689	13.303	11.722	2.1293E-04	2.2434E-04	0.053
34	74	-0.0	-0.0	*****	*****	*****	*****	2.2499E-04	2.2934E-04	0.000
35	75	311.7	561.0	0.827	0.729	13.320	11.73	2.2499E-04	2.3704E-04	0.062
36	76	319.0	558.3	0.016	0.014	13.582	11.77	4.7498E-06	4.5819E-06	0.190
37	77	309.5	557.1	0.075	0.066	13.355	11.767	2.0239E-05	2.1319E-05	0.533
38	78	310.1	559.1	0.282	0.248	13.345	11.759	.6562E-05	8.0653E-05	0.232
39	79	310.6	559.1	0.389	0.343	13.337	11.751	1.0562E-04	1.1127E-04	-0.377
40	80	311.2	560.1	0.549	0.484	13.328	11.744	1.4920E-04	1.5719E-04	-0.527
41	81	312.3	562.1	0.710	0.626	13.310	11.728	1.9343E-04	2.0379E-04	-0.016
42	82	312.6	562.7	0.888	0.806	13.305	11.724	1.8733E-04	1.9737E-04	-0.011
43	83	312.6	563.1	0.743	0.654	13.301	11.720	2.0231E-04	2.1316E-04	-0.004
44	84	312.8	563.0	0.800	0.705	13.303	11.722	2.1787E-04	2.2956E-04	0.048
45	85	311.7	561.1	0.842	0.742	13.320	11.736	2.2917E-04	2.4144E-04	0.059
46	86	309.1	556.3	0.010	0.009	13.362	11.773	2.7550E-06	2.9021E-06	-1.749
47	87	316.0	557.5	0.064	0.056	13.347	11.761	1.7291E-05	1.8215E-05	0.442
48	88	310.8	559.0	0.298	0.263	13.338	11.752	8.1070E-05	8.5406E-05	0.164
49	89	311.2	560.2	0.500	0.441	13.327	11.743	1.3597E-04	1.4325E-04	-0.324
50	90	311.5	560.8	0.654	0.576	13.322	11.739	1.7795E-04	1.8748E-04	-0.319
51	91	311.5	561.4	0.754	0.664	13.316	11.733	2.0523E-04	2.1622E-04	0.018
52	92	312.0	561.7	0.710	0.626	13.314	11.732	1.9329E-04	2.0364E-04	-0.003
53	93	311.5	560.7	0.792	0.698	13.323	11.739	2.1542E-04	2.2695E-04	0.058
54	94	311.5	561.4	0.798	0.703	13.317	11.734	2.1712E-04	2.2876E-04	0.348
55	95	311.5	561.4	0.906	0.798	13.317	11.734	2.4645E-04	2.5906E-04	0.383

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9699E-01 (SLUGS/FTZ-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 48

CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	C-PA	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	41	C.252	C.C576	0.0657	0.0692	0.0660	66	51	0.250	0.0023	C.0026	C.0023	0.0027
57	42	0.253	C.C549	0.0549	0.0627	0.0575	67	52	C.250	0.0069	C.0079	C.0069	0.0083
58	43	0.252	0.0478	0.0478	0.0546	0.0575	68	53	0.251	0.0374	0.0374	0.0427	0.0449
59	44	C.252	C.C156	0.0156	0.0178	0.0188	69	54	0.252	0.0371	0.0571	0.0652	0.0687
60	45	0.251	0.0037	0.0042	0.0044	0.0044	70	55	0.252	0.0702	0.0801	0.0844	0.0844
61	46	0.250	C.C002	0.0002	0.0002	0.0002	71	56	C.252	0.0782	0.0894	0.0820	0.0941
62	47	C.250	-C.C005	-0.0005	-0.0006	-0.0006	72	57	0.253	0.0718	0.0716	0.0820	0.0863
63	48	C.249	-C.C009	-0.0010	-0.0011	-0.0011	73	58	0.253	0.0691	0.0789	0.0789	0.0831
64	49	C.249	-C.C004	-0.0004	-0.0005	-0.0005	74	59	0.253	0.0700	0.0800	0.0800	0.0842
65	50	0.249	C.C003	0.0004	0.0004	0.0004	75	60	0.252	0.0742	0.0842	0.0842	0.0892

REL LENGTH(METER) PT(ATM) YT(DEG K) HT(JOULE/KG) RS(METER) MAW/HT
 3.1449E 06 0.914 11.59 1171.8 1.2423E C6 0.3048 1.000
 REL LENGTH(FT) PT(PSI) TT(DEG R) MT(LBT/LBM) RS(FT) MAW/HT
 3.1449E C6 3.000 170.39 2109.2 534.66 1.0000 1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 48

MACH 5.10 3.4353E C6 3.1449E C6
REL LENGTH(WATER) 0.514
REL LENGTH(FT) 3.000

CHAN	T/C	TN(DEG K)	TN(DEG R)	C(W/CM2)	G(BTU/FT2-SEC)	GS(W/CM2)	GS(BTM/FT2-SEC)	ST(10.874)	TIME(SEC)
56	41	312.2	561.9	0.791	0.697	13.738	12.105	2.2297E-04	0.056
57	42	313.0	563.4	0.754	0.664	13.725	12.094	2.1271E-04	0.032
58	43	312.4	562.3	0.656	0.578	13.735	12.102	1.8512E-04	-0.096
59	44	311.4	560.5	0.215	0.189	13.751	12.116	6.0470E-05	0.205
60	45	310.8	559.5	0.051	0.045	13.760	12.124	1.4222E-05	0.260
61	46	309.7	557.5	0.002	0.002	13.777	12.140	6.9563E-07	-1.638
62	47	308.5	556.1	-0.007	-0.006	13.790	12.151	-1.9450E-06	0.532
63	48	308.2	554.9	-0.012	-0.011	13.800	12.160	-3.4841E-06	0.694
64	49	308.5	555.3	-0.006	-0.005	13.797	12.157	-1.5683E-06	-0.125
65	50	308.3	554.9	0.005	0.004	13.800	12.160	1.2733E-06	1.278
66	51	308.9	556.1	0.031	0.028	13.790	12.151	8.7954E-06	0.720
67	52	309.7	557.5	0.096	0.084	13.777	12.139	2.6084E-05	0.651
68	53	310.9	559.7	0.514	0.453	13.758	12.123	1.4477E-04	0.310
69	54	311.1	561.0	0.785	0.692	13.746	12.112	2.2134E-04	-0.263
70	55	312.3	562.1	0.964	0.849	13.737	12.104	2.7178E-04	-0.195
71	56	313.2	563.8	1.074	0.946	13.721	12.090	3.0315E-04	0.113
72	57	313.7	564.6	0.984	0.867	13.715	12.084	2.7006E-04	0.094
73	58	313.6	564.4	0.948	0.835	13.716	12.086	2.6774E-04	0.097
74	59	313.2	563.8	0.961	0.847	13.722	12.091	2.7131E-04	0.099
75	60	312.1	561.9	1.020	0.898	13.739	12.106	2.8748E-04	0.143

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9213E-01 (SLUGS/FT2-SEC)

PROBE NO.* 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH RE/METER REL LENGTH(METER) PT(ATM) TT(CEG K) HT(JULLE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 4.75112 C6 4.3444E C6 0.914 15.09 1131.7 1.1966E C6 0.3048 1.000 1.000 1.000
 PACH RE/FT REL LENGTH(FT) FT(PST) TT(EGE R) M(RTU/LBM) RS(FT) HAM/HT RUN NO. 49
 5.10 1.481E C6 4.3444E C6 3.000 221.89 2037.0 514.57 1.000 1.000 1.000 CONSTANT SET 611

CHAN	T/C	H/FT	C/GS	F/H(S(1.CC0))	H/H(S(0.907))	H/H(S(0.874))	CHAN	T/C	M/HT	C/GS	H/H(S(1.000))	H/H(S(0.907))	H/H(S(0.874))
1	1	0.262	0.0696	0.0797	0.0840	0.0810	11	11	0.260	-0.0012	-0.0013	-0.0014	-0.0010
2	2	0.264	0.0672	0.0769	0.0810	0.0810	12	12	0.260	-0.0008	-0.0010	-0.0010	-0.0010
3	3	0.263	0.0454	0.0520	0.0548	0.0548	13	13	0.261	0.0358	0.0409	0.0432	0.0432
4	4	0.262	0.0138	0.0158	0.0166	0.0166	14	14	0.262	0.0532	0.0608	0.0641	0.0641
5	5	0.261	0.0009	0.0011	0.0011	0.0011	15	15	0.263	0.0731	0.0837	0.0882	0.0882
6	6	0.260	-0.0001	-0.0001	-0.0002	-0.0002	16	16	0.263	0.0865	0.0990	0.1043	0.1043
7	7	0.259	-0.0004	-0.0005	-0.0005	-0.0005	17	17	0.263	0.0834	0.0954	0.1006	0.1006
8	8	0.259	-0.0007	-0.0007	-0.0008	-0.0008	18	18	0.264	0.0756	0.0865	0.0912	0.0912
9	9	0.259	-0.0010	-0.0011	-0.0012	-0.0012	19	19	0.263	0.0669	0.0766	0.0807	0.0807
10	10	0.260	-0.0011	-0.0012	-0.0013	-0.0013	20	20	0.263	0.0754	0.0863	0.0910	0.0910

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.7511E C6 4.3444E C6 0.914 15.09 1131.7 1.1946E C6 0.3048 1.000 1.000 1.000
 MACH 5.10 1.4441E C6 4.3444E C6 3.000 221.89 2037.0 514.57 1.0000 1.0000 1.0000

CHAN	T/C	T(DEC K)	T(DEC R)	G(W/CM2)	G(BTU/FT2-SEC)	CS(M/CM2)	CS(BTU/FT2-SEC)	ST(G.907)	ST(O.874)	TIME(SEC)
1	1	312.5	562.5	1.037	0.913	14.891	13.121	2.1908E-04	2.3690E-04	0.145
2	2	312.5	565.1	0.998	0.880	14.865	13.098	2.1136E-04	2.2378E-04	0.100
3	2	312.6	563.1	0.676	0.596	14.885	13.116	1.4302E-04	1.5074E-04	-0.121
4	4	311.7	561.0	0.205	0.181	14.906	13.134	4.3351E-05	4.5687E-05	-0.118
5	5	310.6	559.0	0.014	0.012	14.926	13.152	2.9328E-06	3.0906E-06	-3.531
6	6	305.5	557.1	-0.002	-0.002	14.946	13.169	-4.0768E-07	-4.2958E-07	16.496
7	7	308.5	555.9	-0.205	-0.206	14.957	13.179	-1.3136E-06	-1.3841E-06	3.079
8	8	308.6	555.5	-0.010	-0.009	14.962	13.183	-2.0525E-06	-2.1626E-06	1.622
9	9	308.8	555.8	-0.015	-0.013	14.958	13.180	-3.0571E-06	-3.2212E-06	1.664
10	10	305.3	556.7	-0.016	-0.014	14.949	13.172	-3.4293E-06	-3.6135E-06	2.404
11	11	305.9	557.7	-0.017	-0.015	14.939	13.163	-3.6608E-06	-3.8575E-06	3.507
12	12	310.3	558.6	-0.013	-0.011	14.930	13.156	-2.6635E-06	-2.8068E-06	4.253
13	13	310.6	559.0	0.534	0.471	14.926	13.152	1.1263E-04	1.1869E-04	0.362
14	14	312.2	562.0	0.792	0.698	14.896	13.126	1.6731E-04	1.7633E-04	-0.444
15	15	312.0	563.4	1.088	0.959	14.882	13.113	2.3011E-04	2.4253E-04	-0.255
16	16	313.4	564.2	1.286	1.133	14.874	13.106	2.7216E-04	2.8866E-04	0.040
17	17	313.5	565.1	1.239	1.092	14.865	13.098	2.6241E-04	2.7660E-04	0.158
18	18	314.3	565.8	1.123	0.989	14.858	13.092	2.3780E-04	2.5066E-04	0.119
19	19	313.5	564.4	0.956	0.877	14.872	13.105	2.1066E-04	2.2204E-04	0.057
20	20	312.0	563.4	1.123	0.989	14.882	13.113	2.3741E-04	2.5022E-04	0.114

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.9065E-01 (SLUGS/FTZ-SEC)

PACBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH RE/PIETER REL F/H(S(1.000)) H/HS(0.907) H/HS(0.874) H/HS(0.874) TEST NO. 158

5.10 4.5224E C6 4.1444E C6 0.914 15.09 1163.6 1.239E 06 0.3048 1.000 49

MACH RE/FT REL LENGTH(FT) PT(PSI) TT(DEC R) MT(BTL/LBM) RS(FT) HAW/HT HAW/HT HAW/HT

5.10 1.3815E 16 4.1444E 06 3.000 221.39 2094.5 530.55 1.0000 1.0000 1.0000

CHAN	T/C	F/W/FT	Q/QS	F/H(S(1.000))	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	61	C.255	C.C654	0.0694	0.0793	0.0836	39	79	0.254	0.0411	0.0469	0.0655	0.0690
22	62	C.255	C.C737	0.0737	0.0842	0.0887	40	80	0.254	0.0574	C.C574	0.0655	0.0690
23	63	C.251	C.CC04	C.CC04	0.0005	0.0005	41	81	C.256	0.0735	0.0735	0.0840	0.0885
24	64	C.252	C.C013	C.C013	0.0016	0.0016	42	82	0.256	0.0712	0.0712	0.0814	0.0858
25	65	C.252	C.CC40	C.CC40	0.0046	0.0046	43	83	0.256	0.0804	0.0804	0.0919	0.0968
26	66	C.253	C.CC7C	0.007C	0.0080	0.0085	44	84	0.256	0.0915	C.0915	0.1046	0.1101
27	67	C.253	C.C127	0.C127	0.0153	0.0153	45	85	0.255	0.1045	0.1045	0.1195	0.1258
28	68	C.254	C.C491	C.C491	0.0561	0.0591	46	86	C.253	0.0022	0.0022	0.0025	0.0027
29	69	*****	*****	*****	*****	*****	47	87	0.253	0.0073	0.0073	0.0083	0.0088
30	70	0.255	C.C779	0.0775	0.0890	0.0937	48	88	0.254	0.0315	0.0315	0.0360	0.0379
31	71	C.255	C.C838	C.C838	0.0958	0.1009	49	89	C.255	0.0541	0.0541	0.0618	0.0651
32	72	C.256	C.0845	C.0845	0.0966	0.1018	50	90	0.255	0.0692	0.0692	0.0790	0.0833
33	73	C.256	C.0884	C.0884	0.1010	0.1064	51	91	0.255	0.0788	0.0788	0.0901	0.0949
34	74	*****	*****	*****	*****	*****	52	92	0.255	0.0741	0.0741	0.0847	0.0892
35	75	C.255	C.1150	0.115C	0.1314	0.1384	53	93	0.255	0.0851	0.0851	0.0972	0.1024
36	76	C.252	C.C018	C.C018	0.0021	0.0022	54	94	0.255	0.0919	0.0919	0.1050	0.1106
37	77	C.252	C.0677	0.0677	0.0087	0.0092	55	95	0.255	0.1191	0.1191	0.1361	0.1434
38	78	C.253	C.C291	0.C291	0.0333	0.0351							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 4.52226 C6 4.1444E C6 0.914 15.09 1163.6 1.2338E C6 1.0000
 PACH 5.10 1.3E15E C6 4.1444E C6 3.000 221.89 2094.5 530.55 1.0000
 RS(METER) C.3048
 RS(FT) 1.0000
 HAW/HT 1.0000
 HAW/HT 1.0000
 TEST NO. 158
 RUN NO. 49

CFAN	T/C	TM(DEG K)	TM(DEG R)	Q(M/CM2)	Q(RTU/FT2-SEC)	QS(W/CM2)	QS(RTU/FT2-SEC)	ST(10.874)	ST(10.9C7)	TIME(SEC)
21	61	313.2	563.8	1.376	0.948	15.499	13.657	2.2278E-04	2.3466E-04	0.344
22	62	313.7	564.6	1.142	1.006	15.491	13.649	2.3647E-04	2.4908E-04	0.103
23	63	303.7	555.7	0.807	0.805	15.581	13.729	1.4404E-06	1.5168E-06	1.501
24	64	303.5	555.1	0.820	0.818	15.577	13.725	4.1760E-06	4.3974E-06	0.430
25	65	303.6	557.4	0.863	0.855	15.564	13.714	1.2934E-05	1.3621E-05	-0.040
26	66	310.3	558.5	0.110	0.097	15.552	13.704	2.2598E-05	2.3798E-05	-0.14
27	67	311.0	559.9	0.198	0.175	15.539	13.692	4.0886E-05	4.3060E-05	0.106
28	68	311.9	561.4	0.763	0.672	15.524	13.679	1.5759E-04	1.6598E-04	0.038
29	69	-C.C	*****	*****	*****	*****	*****	1.6668E-02	1.7525E-02	0.000
30	70	313.0	563.4	1.207	1.064	15.504	13.661	2.4985E-04	2.6316E-04	-0.216
31	71	313.8	564.8	1.208	1.144	15.490	13.648	2.6892E-04	2.8327E-04	0.106
32	72	313.5	564.9	1.309	1.134	15.488	13.647	2.7127E-04	2.8575E-04	0.127
33	73	313.3	565.7	1.368	1.206	15.481	13.640	2.8361E-04	2.9875E-04	0.155
34	74	-C.C	*****	*****	*****	*****	*****	1.6888E-02	1.7835E-02	0.000
35	75	312.4	564.2	1.782	1.571	15.495	13.654	3.6905E-04	3.8872E-04	0.253
36	76	310.1	558.2	0.028	0.023	15.536	13.707	5.7776E-08	6.0843E-08	0.120
37	77	310.6	559.1	0.119	0.105	15.546	13.698	2.4542E-05	2.5846E-05	0.525
38	78	311.2	560.2	0.453	0.399	15.535	13.689	9.3460E-05	9.870E-05	0.275
39	79	311.5	561.3	0.638	0.562	15.522	13.577	1.3182E-04	1.3884E-04	-0.293
40	80	312.6	562.7	0.890	0.784	15.511	13.667	1.8405E-04	1.9386E-04	-0.439
41	81	312.5	565.0	1.139	1.003	15.487	13.646	2.3591E-04	2.4850E-04	0.058
42	82	314.2	565.5	1.003	0.972	15.482	13.642	2.2858E-04	2.4076E-04	0.045
43	83	314.3	565.8	1.244	1.096	15.479	13.639	2.5793E-04	2.7170E-04	0.067
44	84	314.2	565.6	1.416	1.248	15.481	13.641	2.9255E-04	3.0922E-04	0.143
45	85	313.3	564.0	1.620	1.427	15.497	13.655	3.3539E-04	3.5327E-04	0.176
46	86	310.2	558.4	0.034	0.030	15.553	13.705	7.1017E-06	7.4788E-06	-0.310
47	87	311.2	560.2	0.113	0.100	15.535	13.689	2.3393E-05	2.4637E-05	0.451
48	88	311.5	561.5	0.488	0.431	15.522	13.677	1.0113E-04	1.0851E-04	0.382
49	89	312.7	562.8	0.838	0.739	15.509	13.666	1.7344E-04	1.8268E-04	-0.245
50	90	313.1	563.6	1.072	0.945	15.502	13.659	2.2194E-04	2.3377E-04	-0.260
51	91	313.5	564.4	1.221	1.075	15.494	13.652	2.5292E-04	2.6641E-04	0.071
52	92	313.6	564.5	1.148	1.012	15.492	13.651	2.3783E-04	2.5051E-04	0.038
53	93	312.5	563.3	1.319	1.162	15.204	13.662	2.7288E-04	2.8742E-04	0.112
54	94	313.4	564.1	1.423	1.254	15.496	13.654	2.9470E-04	3.1042E-04	0.137
55	95	313.5	564.3	1.846	1.627	15.494	13.653	3.8225E-04	4.0263E-04	0.229

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.8247E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 49

MACH 5.10
REL LENGTH(C6) 3.9800E C6
REL LENGTH(FT) 3.000
REL LENGTH(C6) 3.9800E C6
REL LENGTH(FT) 3.000

CHAN	T/O	FW/FT	G/GS	F/P-S(I.C.C.C)	F/P-S(O.507)	H/HS(O.874)	CHAN	T/C	HW/HT	G/QS	H/HS(I.000)	H/HS(O.907)	H/HS(O.874)
56	41	C.245	C.0682	C.0682	0.0779	0.0820	66	51	0.245	0.0027	0.0031	0.0032	0.0109
57	42	C.249	C.0694	C.0694	0.0792	0.0835	67	52	0.246	0.0091	0.0104	0.0109	0.0514
58	43	C.245	C.0691	C.0691	0.0721	0.0759	68	53	C.247	0.0511	0.0583	0.0583	0.0931
59	44	C.248	C.0211	C.0211	0.0241	0.0254	69	54	0.248	0.0775	0.0884	0.0884	0.1150
60	45	C.247	C.0050	C.0050	0.0057	0.0060	70	55	0.249	0.0957	0.1093	0.1093	0.1280
61	46	C.246	C.0002	C.0002	0.0003	0.0003	71	56	0.250	0.1065	0.1216	0.1216	0.1202
62	47	C.246	-C.0008	-C.0008	-0.0009	-0.0010	72	57	0.250	0.1000	0.1142	0.1142	0.1181
63	48	C.245	-C.0014	-C.0014	-0.0016	-0.0017	73	58	0.250	0.0982	0.1121	0.1121	0.1308
64	49	C.245	-C.0009	-C.0009	-0.0010	-0.0011	74	59	0.250	0.1088	0.1242	0.1242	0.1308
65	50	0.245	C.0005	0.0005	0.0006	0.0006	75	60	0.249	0.1192	0.1360	0.1360	0.1432

RS(METER) C.3048
RS(FT) 1.000
HAW/HT 1.000
HAW/HT 1.000

TT(DEC K) 1191.7
TT(DEC R) 2145.0

PT(JOULE/KG) 1.2665E 06
PT(87U/LBM) 544.63

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH-CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH RE/METER RE/FT
 5.10 4.3225E C6 3.5625E C6 3.5800E 06
 PACH RE/FT RE/FT
 5.10 1.32267E C6 3.5800E 06

CHAN	T/C	Tm(DEC K)	Tm(DEC R)	C(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(C-307)	ST(O-874)	TIME(SEC)
56	41	313.5	564.3	1.055	0.985	16.039	14.133	2.2264E-04	2.3439E-04	0.052
57	42	314.4	565.9	1.113	0.981	16.024	14.119	2.2657E-04	2.3854E-04	0.029
58	43	313.7	564.6	1.012	0.892	16.036	14.130	2.0597E-04	2.1684E-04	-0.076
59	44	312.4	562.4	0.939	0.799	16.059	14.150	6.8952E-05	7.2586E-05	0.319
60	45	311.8	561.2	0.880	0.070	16.071	14.161	1.6207E-05	1.7060E-05	0.211
61	46	310.5	558.9	0.804	0.003	16.094	14.181	7.9533E-07	8.3714E-07	-1.923
62	47	309.6	557.3	-0.013	-0.012	16.110	14.195	-2.7C20E-06	-2.8439E-06	0.481
63	48	309.0	556.1	-0.023	-0.020	16.122	14.206	-4.5984E-06	-4.8397E-06	0.495
64	49	308.1	556.4	-0.015	-0.013	16.119	14.203	-2.9639E-06	-3.1194E-06	0.195
65	50	308.7	556.7	0.008	0.007	16.126	14.209	1.5946E-06	1.6783E-06	1.542
66	51	309.6	557.2	0.043	0.038	16.171	14.196	8.7461E-06	9.2054E-06	0.565
67	52	310.5	559.0	0.147	0.129	16.093	14.180	2.9739E-05	3.1302E-05	0.594
68	53	312.0	561.5	0.321	0.724	16.067	14.158	1.6672E-04	1.7550E-04	0.338
69	54	312.5	563.1	1.244	1.096	16.051	14.143	2.5273E-04	2.6606E-04	-0.279
70	55	313.6	564.5	1.535	1.353	16.037	14.131	3.1229E-04	3.2877E-04	-0.194
71	56	316.7	566.4	1.766	1.503	16.018	14.114	3.4744E-04	3.6580E-04	0.132
72	57	315.2	567.3	1.601	1.411	16.009	14.106	3.2632E-04	3.4358E-04	0.124
73	58	315.1	567.1	1.573	1.386	16.011	14.108	3.2048E-04	3.3742E-04	0.131
74	59	314.8	566.6	1.743	1.536	16.016	14.113	3.5510E-04	3.7387E-04	0.140
75	60	313.7	564.7	1.911	1.694	16.035	14.129	3.8876E-04	4.0928E-04	0.184

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7551E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	H/WHT	G/S	F/H/S(1.000)	F/H/S(0.907)	F/H/S(0.874)	C/FAN	T/C	H/WHT	G/S	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
1	1	C.285	C.0692	C.0652	C.0756	0.0841	21	21	C.289	0.0567	C.0567	C.0653	0.0689
2	2	C.289	C.0652	C.0751	0.0793	0.0841	22	22	C.289	0.0565	C.0565	0.0650	0.0686
3	3	C.285	C.0461	0.0461	0.0530	0.0560	23	23	0.285	0.0411	C.0411	C.0473	0.0500
4	4	C.285	C.0142	0.0142	0.0163	0.0172	24	24	0.289	0.0115	0.0115	0.0133	0.0140
5	5	C.288	C.0011	0.0011	0.0013	0.0014	25	25	0.288	0.0002	0.0002	0.0003	0.0003
6	6	C.288	C.0000	0.0000	0.0000	0.0000	26	26	0.288	-0.0004	-0.0004	-0.0005	-0.0005
7	7	C.288	C.0000	-0.0001	-0.0001	-0.0001	27	27	C.288	-0.0007	-0.0007	-0.0008	-0.0008
8	8	C.288	C.0002	-0.0002	-0.0002	-0.0002	28	28	C.288	-0.0007	-0.0007	-0.0008	-0.0008
9	9	C.288	-C.0004	-C.0004	-C.0004	-C.0004	29	29	C.288	-0.0009	-0.0009	-0.0010	-0.0011
10	10	C.288	-C.0007	-C.0007	-C.0007	-C.0007	30	30	C.288	-0.0012	-0.0012	-0.0014	-0.0015
11	11	C.288	-C.0007	-C.0007	-C.0007	-C.0007	31	31	C.288	-0.0012	-0.0012	-C.0012	-0.0012
12	12	C.285	-C.0012	-C.0012	-C.0014	-0.0015	32	32	C.288	0.0042	0.0042	0.0049	0.0052
13	13	C.289	0.0296	0.0296	0.0340	0.0360	33	33	C.289	0.0292	0.0292	0.0336	0.0355
14	14	C.28	C.0508	0.0508	0.0584	0.0617	34	34	C.285	0.0385	0.0385	0.0442	0.0467
15	15	C.285	C.0679	0.0679	0.0781	0.0825	35	35	C.289	0.0556	0.0556	0.0639	0.0675
16	16	C.285	C.0749	C.0749	0.0862	0.0911	36	36	C.289	0.0585	0.0585	0.0678	0.0716
17	17	C.250	0.0733	0.0733	0.0844	0.0891	37	37	C.289	0.0574	0.0574	0.0660	0.0698
18	18	C.250	C.0670	0.0670	0.0772	0.0815	38	38	C.285	0.0544	0.0544	0.0625	0.0661
19	19	C.285	C.0615	C.0615	0.0708	0.0748	39	39	C.285	0.0479	C.0479	C.0551	0.0582
20	20	C.285	C.0641	C.0641	0.0737	0.0779	40	40	*****	*****	*****	*****	*****

TEST NC. 158
RUN NC. 50
CONSTANT SET 521

RS(METER) 0.3048
RS(FT) 1.0000
HAM/HT 1.000
HAM/HT 1.000

TT(DEC K) 1030.1
TT(DEC R) 1854.3
H/HT 464.33

PT(ATM) 4.53
PT(PSI) 67.34
REL LENGTH(FT) 3.000

REL LENGTH(FT) 3.000
REL LENGTH(FT) 3.000

REL LENGTH(FT) 3.000
REL LENGTH(FT) 3.000

REL LENGTH(FT) 3.000
REL LENGTH(FT) 3.000

REL LENGTH(FT) 3.000
REL LENGTH(FT) 3.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.6875E C6 1.5434E C5 0.914 4.58 1030.1 1.0758E C6 0.3048 1.000
 RE/METER REL LENGTH(PETER) PT(ATM) TT(DEC K) FT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 RE/FT REL LENGTH(FT) PT(PSI) TT(DEC R) MT(LB/UBM) RS(FT) HAM/HT RUN NO. 50
 5.10 5.1447E 05 1.5434E 06 3.000 67.34 1894.3 484.33 1.0000 1.0000

CHAN	T/C	TIME(SEC)	REL LENGTH(FT)	REL LENGTH(FT)	PT(PSI)	TT(DEC R)	MT(LB/UBM)	RS(FT)	HAM/HT	TEST NO.	RUN NO.
1	1	310.0	558.9	0.435	7.137	6.289	3.7087E-04	3.9179E-04	0.271	158	50
2	2	311.2	560.2	0.410	7.130	6.282	3.4571E-04	3.6946E-04	0.236	158	50
3	3	310.5	559.6	0.290	7.133	6.285	2.4704E-04	2.6098E-04	0.065	158	50
4	4	310.3	559.0	0.089	7.137	6.288	7.5980E-05	8.0245E-05	0.443	158	50
5	5	310.1	558.3	0.008	7.141	6.292	5.9810E-05	6.3181E-06	-0.023	158	50
6	6	309.8	557.7	0.000	7.144	6.295	1.6164E-07	1.7075E-07	-14.582	158	50
7	7	309.6	557.2	-0.000	7.146	6.297	-2.4218E-07	-2.5581E-07	7.137	158	50
8	8	309.4	557.0	-0.001	7.148	6.298	9.9381E-07	-1.0498E-06	3.518	158	50
9	9	309.6	557.3	-0.002	7.146	6.297	-1.8808E-06	-1.9859E-06	2.099	158	50
10	10	309.8	557.6	-0.003	7.144	6.295	-3.7927E-06	-4.0063E-06	1.873	158	50
11	11	310.0	558.0	-0.005	7.142	6.293	-3.6407E-06	-3.8459E-06	2.364	158	50
12	12	310.2	558.3	-0.009	7.140	6.291	-6.5400E-06	-6.9086E-06	2.142	158	50
13	13	310.3	558.6	0.211	7.139	6.290	1.5859E-04	1.6753E-04	0.493	158	50
14	14	310.5	559.6	0.362	7.133	6.285	2.7213E-04	2.8748E-04	-0.084	158	50
15	15	311.2	560.1	0.484	7.130	6.283	3.6405E-04	3.8460E-04	-0.014	158	50
16	16	311.4	560.2	0.471	7.130	6.283	4.0175E-04	4.2443E-04	0.136	158	50
17	17	311.4	560.5	0.461	7.129	6.281	3.9307E-04	4.1527E-04	0.230	158	50
18	18	311.5	560.8	0.478	7.127	6.280	3.5947E-04	3.7977E-04	0.208	158	50
19	19	311.2	560.1	0.439	7.131	6.283	3.2976E-04	3.4837E-04	0.196	158	50
20	20	310.6	559.4	0.457	7.134	6.286	3.4340E-04	3.6278E-04	0.119	158	50
21	21	310.4	558.6	0.405	7.139	6.290	3.0409E-04	3.2123E-04	0.102	158	50
22	22	311.0	559.9	0.355	7.132	6.284	3.0272E-04	3.1580E-04	-0.083	158	50
23	23	310.7	559.2	0.293	7.135	6.287	2.2046E-04	2.3289E-04	0.505	158	50
24	24	310.4	558.7	0.082	7.138	6.290	6.1878E-05	6.5367E-05	-1.948	158	50
25	25	310.0	557.9	0.002	7.142	6.293	1.2112E-06	1.2794E-06	-1.360	158	50
26	26	309.6	557.4	-0.003	7.145	6.296	-2.2198E-06	-2.3448E-06	1.064	158	50
27	27	309.3	556.8	-0.005	7.149	6.299	-3.5101E-06	-3.7077E-06	1.248	158	50
28	28	309.3	556.7	-0.005	7.145	6.300	-3.7167E-06	-3.9257E-06	1.053	158	50
29	29	309.3	556.8	-0.006	7.149	6.299	-4.7211E-06	-4.9869E-06	1.231	158	50
30	30	309.6	557.2	-0.009	7.146	6.297	-4.4781E-06	-4.8637E-06	1.231	158	50
31	31	309.5	557.8	-0.001	7.143	6.294	-8.9030E-07	-9.4017E-07	3.617	158	50
32	32	309.9	557.5	0.027	7.143	6.294	2.2734E-05	2.4017E-05	0.701	158	50
33	33	310.3	558.6	0.208	7.139	6.290	1.5655E-04	1.6538E-04	0.279	158	50
34	34	310.5	558.9	0.275	7.137	6.289	2.7618E-04	2.8781E-04	-0.113	158	50
35	35	310.5	558.9	0.397	7.137	6.289	2.9783E-04	3.1463E-04	-0.061	158	50
36	36	310.6	559	0.420	7.134	6.286	3.1586E-04	3.3362E-04	0.100	158	50
37	37	310.8	559.4	0.410	7.134	6.286	3.0773E-04	3.2509E-04	0.075	158	50
38	38	311.0	559.7	0.386	7.133	6.285	2.9139E-04	3.0784E-04	0.098	158	50
39	39	311.0	559.7	0.342	7.132	6.285	2.5572E-04	2.7125E-04	0.042	158	50
40	40	-0.0	-0.0	0.301	7.132	6.285	5.5059E-02	6.0293E-02	0.000	158	50

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2703E-01 (SLUGS/FT2-SFC)

FORM NO. 1 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 50

MACH 5.10 1.644CF C6 1.5032E C6 0.914 4.58 1046.6 1.0986E C6 0.3048 1.0000
 PACH 5.10 5.0108E C5 1.5032E C6 3.000 67.34 1833.9 472.41 1.0000

CHAN	T/C	H/W/HT	U/C/S	F/H/S(1.000)	F/H/S(0.907)	H/H/S(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
41	61	0.264	C.0514	C.0514	0.0590	0.0623	59	79	0.284	C.0287	0.0287	0.0330	0.0348
42	62	0.265	C.0501	C.0501	0.0576	0.0608	60	80	0.284	0.0413	0.0413	0.0475	0.0502
43	63	0.263	-C.0002	-C.0002	-0.0002	-0.0002	61	81	0.285	0.0485	0.0485	0.0558	0.0589
44	64	0.263	-C.0001	-C.0001	-0.0001	-0.0001	62	82	0.285	0.0471	0.0471	0.0542	0.0572
45	65	0.283	C.0015	C.0015	0.0017	0.0016	63	83	0.285	0.0485	0.0485	0.0557	0.0588
46	66	0.264	C.0035	C.0035	0.0041	0.0043	64	84	0.285	0.0453	0.0453	0.0566	0.0598
47	67	0.264	C.0074	C.0074	0.0084	0.0089	65	85	0.284	0.0466	0.0466	0.0535	0.0565
48	68	0.284	C.0301	C.0301	0.0346	0.0365	66	86	0.283	0.0013	0.0013	0.0014	0.0015
49	69	0.285	*****	*****	*****	*****	67	87	0.283	0.0048	0.0048	0.0055	0.0059
50	70	0.285	C.0476	C.0476	0.0547	0.0577	68	88	0.284	0.0221	0.0221	0.0234	0.0268
51	71	0.285	C.0508	C.0508	0.0584	0.0617	69	89	0.284	0.0374	0.0374	0.0430	0.0454
52	72	0.285	C.0495	C.0495	0.0569	0.0601	70	90	0.284	0.0491	0.0491	0.0564	0.0596
53	73	0.285	C.0507	C.0507	0.0583	0.0615	71	91	0.284	0.0548	0.0548	0.0630	0.0665
54	74	0.285	*****	*****	*****	*****	72	92	0.285	0.0506	0.0506	0.0582	0.0614
55	75	0.285	C.0463	C.0463	0.0532	0.0562	73	93	0.285	0.0519	0.0519	0.0597	0.0630
56	76	0.283	C.0007	C.0007	0.0009	0.0009	74	94	0.285	0.0488	0.0488	0.0561	0.0593
57	77	0.284	C.0043	C.0043	0.0050	0.0052	75	95	0.285	0.0525	0.0525	0.0603	0.0637
58	78	0.284	C.0191	C.0191	0.0220	0.0232							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.6432E 06 1.5032E 06 3.000
 REL LENGTH (METER) PT (ATM) TT (SEC K) FT (JCOLE/KG) RS (METER) HAM/HT 1.000
 MACH 5.10 5.010E 05 1.5032E 06 3.000
 REL LENGTH (FT) PT (PSI) TT (DEG R) WT (IBL/LBP) RS (F) HAM/HT 1.000

CHAN	T/C	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)	TIME (SEC)
41	61	211.1	560.0	0.375	7.306	6.438	2.7828E-04	2.8666E-04	2.8666E-04	2.8666E-04	2.8666E-04	2.8666E-04
42	62	211.8	561.3	0.366	7.300	6.432	2.7148E-04	2.8666E-04	2.8666E-04	2.8666E-04	2.8666E-04	2.8666E-04
43	63	205.6	557.3	-0.001	7.321	6.451	-9.5513E-07	-1.0085E-06	-1.0085E-06	-1.0085E-06	-1.0085E-06	-1.0085E-06
44	64	309.8	537.4	-0.001	7.321	6.451	-4.0970E-07	-4.3258E-07	-4.3258E-07	-4.3258E-07	-4.3258E-07	-4.3258E-07
45	65	309.9	557.8	0.010	7.319	6.449	8.2370E-06	8.6972E-06	8.6972E-06	8.6972E-06	8.6972E-06	8.6972E-06
46	66	310.2	558.3	0.026	7.316	6.447	1.9193E-05	2.0265E-05	2.0265E-05	2.0265E-05	2.0265E-05	2.0265E-05
47	67	310.5	558.0	0.034	7.312	6.443	3.9816E-05	4.2043E-05	4.2043E-05	4.2043E-05	4.2043E-05	4.2043E-05
48	68	310.9	559.7	0.194	7.309	6.440	1.6293E-04	1.7205E-04	1.7205E-04	1.7205E-04	1.7205E-04	1.7205E-04
49	69	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
50	70	311.3	560.3	0.347	7.305	6.437	2.5764E-04	2.7207E-04	2.7207E-04	2.7207E-04	2.7207E-04	2.7207E-04
51	71	311.5	560.8	0.371	7.302	6.434	2.7518E-04	2.9059E-04	2.9059E-04	2.9059E-04	2.9059E-04	2.9059E-04
52	72	311.6	560.9	0.362	7.302	6.434	2.6831E-04	2.8334E-04	2.8334E-04	2.8334E-04	2.8334E-04	2.8334E-04
53	73	311.3	560.3	0.370	7.305	6.436	2.7467E-04	2.9005E-04	2.9005E-04	2.9005E-04	2.9005E-04	2.9005E-04
54	74	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****
55	75	311.6	560.9	0.338	7.302	6.434	2.5087E-04	2.6493E-04	2.6493E-04	2.6493E-04	2.6493E-04	2.6493E-04
56	76	310.0	558.0	0.005	7.318	6.447	4.0603E-06	4.2872E-06	4.2872E-06	4.2872E-06	4.2872E-06	4.2872E-06
57	77	310.1	558.2	0.032	7.316	6.447	2.3395E-05	2.4702E-05	2.4702E-05	2.4702E-05	2.4702E-05	2.4702E-05
58	78	310.5	558.9	0.140	7.313	6.444	1.0361E-04	1.0941E-04	1.0941E-04	1.0941E-04	1.0941E-04	1.0941E-04
59	79	310.8	558.4	0.210	7.310	6.441	1.5548E-04	1.6418E-04	1.6418E-04	1.6418E-04	1.6418E-04	1.6418E-04
60	80	311.1	558.5	0.302	7.307	6.438	2.2399E-04	2.3652E-04	2.3652E-04	2.3652E-04	2.3652E-04	2.3652E-04
61	81	311.2	560.4	0.355	7.304	6.436	2.6244E-04	2.7766E-04	2.7766E-04	2.7766E-04	2.7766E-04	2.7766E-04
62	82	311.4	560.4	0.344	7.304	6.436	2.5538E-04	2.6968E-04	2.6968E-04	2.6968E-04	2.6968E-04	2.6968E-04
63	83	311.3	560.3	0.354	7.303	6.437	2.6254E-04	2.7724E-04	2.7724E-04	2.7724E-04	2.7724E-04	2.7724E-04
64	84	311.4	560.6	0.340	7.303	6.435	2.6686E-04	2.8181E-04	2.8181E-04	2.8181E-04	2.8181E-04	2.8181E-04
65	85	310.4	558.7	0.341	7.314	6.445	2.5229E-04	2.6440E-04	2.6440E-04	2.6440E-04	2.6440E-04	2.6440E-04
66	86	309.5	557.2	0.009	7.322	6.452	6.7859E-06	7.1648E-06	7.1648E-06	7.1648E-06	7.1648E-06	7.1648E-06
67	87	310.0	557.9	0.035	7.318	6.448	2.6119E-05	2.7578E-05	2.7578E-05	2.7578E-05	2.7578E-05	2.7578E-05
68	88	310.3	558.6	0.162	7.314	6.445	1.1978E-04	1.2644E-04	1.2644E-04	1.2644E-04	1.2644E-04	1.2644E-04
69	89	310.4	558.8	0.274	7.314	6.444	2.0278E-04	2.1412E-04	2.1412E-04	2.1412E-04	2.1412E-04	2.1412E-04
70	90	310.7	559.2	0.359	7.311	6.442	2.6599E-04	2.8086E-04	2.8086E-04	2.8086E-04	2.8086E-04	2.8086E-04
71	91	311.2	560.1	0.400	7.306	6.438	2.9681E-04	3.1342E-04	3.1342E-04	3.1342E-04	3.1342E-04	3.1342E-04
72	92	311.4	560.5	0.370	7.304	6.436	2.7416E-04	2.8952E-04	2.8952E-04	2.8952E-04	2.8952E-04	2.8952E-04
73	93	311.4	560.5	0.379	7.304	6.436	2.8140E-04	2.9716E-04	2.9716E-04	2.9716E-04	2.9716E-04	2.9716E-04
74	94	311.4	560.5	0.357	7.304	6.436	2.6449E-04	2.7930E-04	2.7930E-04	2.7930E-04	2.7930E-04	2.7930E-04
75	95	311.4	560.5	0.338	7.304	6.436	2.8442E-04	3.0035E-04	3.0035E-04	3.0035E-04	3.0035E-04	3.0035E-04

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2559E-01 (SLUGS/FTZ-SEC)

PROBE NO. = 2

MATIC: L AERONAUTICS AND SPACE ADMINISTRATION AREAS RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 51
 HAW/HT 1.000
 HAW/HT CONSTANT SET 521
 RS(METER) C.3048
 RS(FT) 1.0000
 HAW/HT 1.000

CHAN	T/C	H/W/FT	Q/QS	F/H/S(1.000)	H/H/S(0.907)	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)	H/H/S(0.874)	CH-AN	T/C	H/W/HT	Q/QS	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
1	1	0.275	0.0632	0.0726	0.0726	0.0766	0.0766	0.0766	0.0766	21	21	0.275	0.0635	0.0635	0.0729	0.0769
2	2	0.281	0.0613	0.0704	0.0704	0.0744	0.0744	0.0744	0.0744	22	22	0.280	0.0674	0.0674	0.0774	0.0817
3	3	0.280	0.0426	0.0426	0.0490	0.0517	0.0517	0.0517	0.0517	23	23	0.279	0.0528	0.0528	0.0606	0.0640
4	4	0.280	0.0122	0.0122	0.0122	0.0148	0.0148	0.0148	0.0148	24	24	0.279	0.0142	0.0142	0.0163	0.0172
5	5	0.275	0.0005	0.0005	0.0005	0.0007	0.0007	0.0007	0.0007	25	25	0.278	0.0000	0.0000	0.0000	0.0000
6	6	0.278	0.0008	0.0008	0.0008	0.0010	0.0010	0.0010	0.0010	26	26	0.277	0.0002	0.0002	0.0003	0.0003
7	7	0.278	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	27	27	0.277	0.0004	0.0004	0.0004	0.0004
8	8	0.278	0.0012	0.0012	0.0012	0.0014	0.0014	0.0014	0.0014	28	28	0.277	0.0003	0.0003	0.0003	0.0003
9	9	0.278	0.0023	0.0023	0.0023	0.0026	0.0026	0.0026	0.0026	29	29	0.277	0.0003	0.0003	0.0004	0.0004
10	10	0.278	0.0027	0.0027	0.0027	0.0031	0.0031	0.0031	0.0031	30	30	0.278	0.0004	0.0004	0.0004	0.0004
11	11	0.279	0.0031	0.0031	0.0031	0.0036	0.0036	0.0036	0.0036	31	31	0.278	0.0006	0.0006	0.0007	0.0008
12	12	0.275	0.0047	0.0047	0.0047	0.0054	0.0054	0.0054	0.0054	32	32	0.278	0.0052	0.0052	0.0060	0.0063
13	13	0.275	0.0291	0.0291	0.0334	0.0353	0.0353	0.0353	0.0353	33	33	0.279	0.0366	0.0366	0.0420	0.0443
14	14	0.280	0.0486	0.0486	0.0558	0.0589	0.0589	0.0589	0.0589	34	34	0.279	0.0489	0.0489	0.0561	0.0593
15	15	0.280	0.0642	0.0642	0.0737	0.0778	0.0778	0.0778	0.0778	35	35	0.279	0.0714	0.0714	0.0820	0.0865
16	16	0.281	0.0740	0.0740	0.0850	0.0897	0.0897	0.0897	0.0897	36	36	0.280	0.0770	0.0770	0.0884	0.0933
17	17	0.281	0.0723	0.0723	0.0830	0.0876	0.0876	0.0876	0.0876	37	37	0.280	0.0763	0.0763	0.0876	0.0924
18	18	0.281	0.0664	0.0664	0.0762	0.0805	0.0805	0.0805	0.0805	38	38	0.280	0.0740	0.0740	0.0849	0.0897
19	19	0.280	0.0597	0.0597	0.0686	0.0724	0.0724	0.0724	0.0724	39	39	0.280	0.0721	0.0721	0.0828	0.0874
20	20	0.280	0.0622	0.0622	0.0714	0.0754	0.0754	0.0754	0.0754	40	40	0.280	0.0721	0.0721	0.0828	0.0874

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.8147E C4 2.5737E C6 2.5738E C6 3.0000
 RE/METER REL LENGTH(METER) PT(ATM) R.12 1068.8 1.1241E C6 0.3048
 PACH RE/FT REL LENGTH(FT) PT(PSI) 119.42 1923.9 483.39 1.0000
 HAW/HT 1.0000
 TEST NO. 158
 RUN NO. 51

CFAN	T/C	Tm(DEG K)	Tm(DEG R)	C(W/CM2)	C(LBTU/FT2-SEC)	CS(W/CM2)	CS(LBTU/FT2-SEC)	GS(BTU/CM2)	GS(LBTU/FT2-SEC)	ST(10.874)	TIME(SEC)
1	1	312.3	562.5	0.634	0.559	10.029	10.029	2.6078E-04	8.837	2.7525E-04	0.183
2	2	314.0	565.2	0.614	0.541	10.009	10.009	2.5315E-04	8.819	2.6723E-04	0.168
3	3	313.5	564.3	0.427	0.376	10.016	10.016	1.7597E-04	8.825	1.8574E-04	-0.008
4	4	312.5	563.3	0.122	0.108	10.023	10.023	5.0329E-05	8.832	5.3123E-05	0.259
5	5	312.2	562.2	0.005	0.005	10.031	10.031	2.2401E-06	8.839	2.3644E-06	-2.009
6	6	311.7	561.0	-0.008	-0.007	10.040	10.040	-3.3542E-06	8.846	-3.5401E-06	1.715
7	7	311.1	560.1	-0.007	-0.006	10.047	10.047	-2.7802E-06	8.853	-2.9341E-06	1.372
8	8	311.0	559.5	-0.012	-0.011	10.049	10.049	-4.9339E-06	8.855	-5.2071E-06	1.099
9	9	311.2	560.1	-0.023	-0.020	10.046	10.046	-9.4143E-06	8.852	-9.9356E-06	1.025
10	10	311.6	560.9	-0.027	-0.024	10.041	10.041	-1.1014E-05	8.847	-1.1624E-05	0.985
11	11	312.1	561.7	-0.031	-0.028	10.035	10.035	-1.2867E-05	8.842	-1.3580E-05	1.151
12	12	312.4	562.3	-0.047	-0.041	10.030	10.030	-1.9261E-05	8.838	-2.0329E-05	0.935
13	13	312.7	562.8	0.252	0.257	10.026	10.026	1.2017E-04	8.835	1.2684E-04	0.441
14	14	313.6	564.4	0.487	0.429	10.015	10.015	2.0054E-04	8.824	2.1169E-04	-0.214
15	15	313.9	565.0	0.642	0.566	10.010	10.010	2.6476E-04	8.821	2.7948E-04	-0.138
16	16	314.1	565.5	0.741	0.653	10.007	10.007	3.0549E-04	8.818	3.2249E-04	0.081
17	17	314.4	565.9	0.723	0.637	10.004	10.004	2.9833E-04	8.815	3.1493E-04	0.193
18	18	314.6	566.2	0.664	0.582	10.002	10.002	2.7392E-04	8.813	2.8917E-04	0.177
19	19	313.7	564.6	0.598	0.527	10.013	10.013	2.4545E-04	8.823	2.6015E-04	0.143
20	20	312.0	563.4	0.549	0.549	10.023	10.023	2.5633E-04	8.831	2.7088E-04	0.138
21	21	312.0	561.7	0.637	0.561	10.035	10.035	2.6186E-04	8.842	2.7638E-04	0.135
22	22	313.1	563.6	0.676	0.595	10.021	10.021	2.7829E-04	8.829	2.9374E-04	0.148
23	23	312.7	562.9	0.529	0.466	10.026	10.026	2.1781E-04	8.834	2.2590E-04	0.058
24	24	312.1	561.7	0.143	0.126	10.034	10.034	5.8631E-05	8.842	6.1882E-05	0.573
25	25	-C.C	-C.C	*****	*****	*****	*****	*****	*****	*****	0.000
26	26	310.5	559.6	0.000	0.000	10.050	10.050	1.3209E-07	8.856	1.3940E-07	-1.970
27	27	310.4	558.8	-0.002	-0.002	10.056	10.056	-1.0150E-06	8.861	-1.0712E-06	0.062
28	28	310.4	558.6	-0.004	-0.003	10.057	10.057	-1.5643E-06	8.862	-1.6708E-06	0.523
29	29	310.4	558.7	-0.003	-0.002	10.051	10.051	-1.0652E-06	8.862	-1.1241E-06	-0.615
30	30	310.8	559.5	-0.004	-0.003	10.045	10.045	-1.5330E-06	8.856	-1.6179E-06	0.316
31	31	311.3	560.3	0.006	0.006	10.044	10.044	2.6524E-06	8.851	2.7993E-06	1.084
32	32	311.4	560.5	0.053	0.046	10.044	10.044	2.1568E-05	8.850	2.2762E-05	0.865
33	33	312.1	561.7	0.367	0.324	10.035	10.035	1.5098E-04	8.842	1.5935E-04	0.357
34	34	312.4	561.3	0.490	0.432	10.030	10.030	2.0177E-04	8.838	2.1296E-04	-0.020
35	35	312.5	562.5	0.716	0.631	10.029	10.029	2.9465E-04	8.837	3.1100E-04	0.027
36	36	313.0	563.3	0.771	0.680	10.023	10.023	3.1759E-04	8.832	3.3522E-04	0.192
37	37	312.5	563.2	0.764	0.674	10.024	10.024	3.1470E-04	8.832	3.3217E-04	0.177
38	38	313.0	563.5	0.741	0.653	10.022	10.022	3.0526E-04	8.831	3.2221E-04	0.209
39	39	313.0	563.5	0.723	0.637	10.022	10.022	2.9772E-04	8.831	3.1426E-04	0.213
40	40	-C.C	-C.C	*****	*****	*****	*****	*****	*****	*****	0.000

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1935E-01 (SLUGS/FT2-SEC)

PROBE NO. 1 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 8.2530E 05 2.4759E 06 3.000 119.42 1969.0 495.77 1.0000
 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 2.7077E 06 0.914 8.12 1093.9 1.1529E 06 0.3048 1.000
 REL LENGTH(FT) PT(PST) TT(DEG R) FT(LBTU/LBM) RS(FT) HAM/HT RUN NO. 51
 2.4759E 06 3.000 119.42 1969.0 495.77 1.0000

CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
41	81	C.273	C.0503	0.0503	0.0574	0.0608	59	79	0.273	0.0348	0.0348	0.0399	0.0421
42	82	C.275	C.0523	0.0523	0.0599	0.0632	60	80	0.273	0.0488	C.0488	C.0560	0.0591
43	83	C.271	-C.0007	-0.0007	-0.0008	-0.0009	61	81	0.274	0.0534	0.0534	0.0612	0.0646
44	84	C.271	-C.0002	-0.0002	-0.0002	-0.0002	62	82	0.274	0.0512	0.0512	0.0587	0.0619
45	85	C.272	C.0015	0.0015	0.0017	0.0018	63	83	0.274	0.0536	0.0536	0.0614	0.0648
46	86	C.272	C.0043	0.0043	0.0050	0.0052	64	84	0.274	0.0579	0.0579	0.0664	0.0701
47	87	C.273	C.0086	0.0086	0.0098	0.0104	65	85	C.273	0.0591	0.0591	0.0678	0.0715
48	88	C.273	C.0344	0.0344	0.0394	0.0416	66	86	0.271	0.0017	0.0017	0.0019	0.0020
49	89	*****	*****	*****	*****	*****	67	87	0.272	0.0061	0.0061	0.0069	0.0073
50	90	C.274	C.0528	0.0528	0.0605	0.0639	68	88	0.272	0.0235	0.0235	0.0269	0.0284
51	91	0.274	C.0558	0.0558	0.0640	0.0675	69	89	0.272	0.0445	0.0445	0.0510	0.0538
52	92	C.275	C.0543	0.0543	0.0622	0.0657	70	90	C.273	0.0555	0.0555	0.0637	0.0671
53	93	C.274	C.0579	0.0579	0.0564	0.0701	71	91	0.274	0.0587	0.0587	0.0673	0.0710
54	94	*****	*****	*****	*****	*****	72	92	0.274	0.0561	0.0561	0.0644	0.0679
55	95	0.274	C.0617	0.0617	0.0708	0.0747	73	93	0.274	0.0585	0.0585	0.0670	0.0707
56	96	0.272	C.0508	0.0508	0.0005	0.0010	74	94	0.274	0.0571	0.0571	0.0653	0.0691
57	97	0.272	C.0052	0.0052	0.0060	0.0063	75	95	0.274	0.0669	0.0669	0.0767	0.0809
58	98	C.272	C.0227	0.0227	0.0260	0.0274							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER ROFFETT FIELD CALIF. *** PRELIMINARY DATA ***
PACH 5.10 2.7077E C6 2.4759E 06 0.714 1093.9 8.12 1.1529E C6 0.3048 RS(METER) HT(JOULE/KG) HAW/HT TEST NO. 158
PACH 5.10 8.253CE C5 2.4759E C6 3.000 119.42 1959.0 495.77 1.0000 RS(PSI) TT(CEG R) HT(BTU/LBM) HAW/HT RUN NO. 51

CHAN	T/C	TW(DEC K)	TW(DEC R)	REL LENGTH(METER)	PT(ATM)	TT(CEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
41	61	313.6	564.4	0.521	0.459	10.371	5.139	2.1070E-04	2.2227E-04	3.037
42	62	315.1	567.2	0.541	0.477	10.351	9.121	2.3114E-04	2.3114E-04	3.076
43	63	311.1	560.1	-0.007	-0.007	10.403	9.167	-2.9869E-06	-3.1503E-06	0.593
44	64	311.3	560.4	-0.002	-0.002	10.401	5.164	-7.1253E-07	-7.5144E-07	0.043
45	65	311.5	561.4	0.015	0.015	10.394	9.158	6.1066E-06	6.4412E-06	0.428
46	66	312.4	562.3	0.045	0.040	10.387	9.152	1.8177E-05	1.9174E-05	0.390
47	67	313.1	563.6	0.089	0.078	10.378	9.144	3.5871E-05	3.7840E-05	3.383
48	68	313.7	564.6	0.357	0.314	10.370	9.137	1.4416E-04	1.5208E-04	0.144
49	69	-0.0	*****	*****	*****	*****	*****	*****	*****	0.000
50	70	314.5	566.1	0.547	0.482	10.359	9.128	2.2129E-04	2.3353E-04	-0.210
51	71	314.9	566.8	0.578	0.509	10.354	9.123	2.3384E-04	2.4671E-04	0.075
52	72	315.1	567.2	0.562	0.495	10.351	9.120	2.2749E-04	2.4001E-04	0.066
53	73	314.6	566.7	0.599	0.528	10.355	9.124	2.4269E-04	2.5604E-04	0.137
54	74	-0.0	*****	*****	*****	*****	*****	*****	*****	0.000
55	75	314.9	566.8	0.639	0.563	10.354	9.123	2.5869E-04	2.7292E-04	0.130
56	76	311.9	561.5	0.008	0.007	10.393	9.158	3.3342E-06	3.5169E-06	1.646
57	77	312.2	562.0	0.054	0.048	10.389	9.154	2.1932E-05	2.3134E-05	0.765
58	78	312.6	563.0	0.235	0.207	10.381	9.147	9.4949E-05	1.0016E-04	0.415
59	79	313.2	563.8	0.361	0.313	10.376	9.142	1.4598E-04	1.5399E-04	-0.036
60	80	313.7	564.6	0.506	0.446	10.370	9.137	2.0470E-04	2.1594E-04	-0.175
61	81	314.2	565.8	0.553	0.487	10.361	9.130	2.2379E-04	2.3610E-04	0.056
62	82	314.4	566.0	0.530	0.467	10.360	9.128	2.1458E-04	2.2838E-04	0.068
63	83	314.5	566.1	0.555	0.489	10.359	9.127	2.2455E-04	2.3690E-04	0.052
64	84	314.7	566.4	0.600	0.528	10.357	9.126	2.4275E-04	2.5610E-04	0.059
65	85	313.0	563.3	0.614	0.541	10.379	9.146	2.4788E-04	2.6148E-04	0.117
66	86	311.3	560.3	0.018	0.016	10.402	9.165	7.0938E-06	7.4821E-06	0.893
67	87	312.0	561.6	0.063	0.056	10.392	9.156	2.5402E-05	2.6794E-05	0.817
68	88	312.5	562.5	0.244	0.215	10.385	9.151	9.8355E-05	1.0375E-04	0.522
69	89	312.8	563.0	0.462	0.407	10.382	9.148	1.8646E-04	1.9669E-04	-0.015
70	90	313.2	563.8	0.576	0.508	10.376	9.143	2.3267E-04	2.4544E-04	-0.063
71	91	314.0	565.2	0.608	0.536	10.366	9.133	2.4601E-04	2.5953E-04	0.122
72	92	314.2	565.5	0.582	0.512	10.364	9.132	2.3524E-04	2.4817E-04	0.107
73	93	314.3	565.7	0.606	0.534	10.362	9.130	2.4505E-04	2.5854E-04	0.098
74	94	314.2	565.5	0.592	0.521	10.363	9.132	2.3930E-04	2.5255E-04	0.084
75	95	314.2	565.6	0.693	0.611	10.363	9.131	2.6044E-04	2.9586E-04	0.115

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1565E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 PACH 5.10 3.2801E C6 3.2801F C6 3.000
 REL LENGTH(METER) PT(ATM) TT(DEC K) HT(JOULE/KG) RSMETER) HAW/HT TEST NO. 158
 11.27 1124.4 1.1882E C6 0.3048 1.000 RUN NO. 52
 PACH 5.10 1.0934E C6 3.2801F C6 3.000
 REL LENGTH(FT) PT(PST) TT(DEC R) FT(BTU/LBM) RS(FT) HAW/HT CONSTRAINT NET SZ1
 165.73 2024.0 510.97 1.0000 1.000

CHAN	T/C	G/C5	H/HS(1.000)	H/HS(0.907)	F/HS(0.874)	C/FAN	T/C	HAW/HT	Q/DS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	C.0614	0.0614	0.0703	0.0742	21	21	0.269	0.0934	0.0934	0.1070	0.1129
2	2	C.0605	0.0605	0.0694	0.0732	22	22	0.270	0.1045	0.1045	0.1198	0.1263
3	3	C.0420	0.0420	0.0481	0.0507	23	23	0.269	0.0828	0.0828	0.0949	0.1000
4	4	C.0131	0.0131	0.0151	0.0159	24	24	0.268	0.0204	0.0204	0.0233	0.0246
5	5	C.0007	0.0007	0.0008	0.0008	25	25	0.267	0.0002	0.0002	0.0003	0.0003
6	6	C.0007	0.0007	0.0009	0.0009	26	26	0.266	0.0003	0.0003	0.0003	0.0003
7	7	C.0009	0.0009	0.0010	0.0010	27	27	0.266	0.0004	0.0004	0.0004	0.0004
8	8	C.0008	0.0008	0.0009	0.0010	28	28	0.267	0.0004	0.0004	0.0004	0.0004
9	9	C.0019	0.0019	0.0021	0.0023	29	29	0.266	0.0005	0.0005	0.0005	0.0005
10	10	C.0024	0.0024	0.0027	0.0029	30	30	0.267	0.0003	0.0003	0.0012	0.0013
11	11	C.0027	0.0027	0.0031	0.0032	31	31	0.267	0.0011	0.0011	0.0012	0.0013
12	12	C.0043	0.0043	0.0049	0.0052	32	32	0.268	0.0075	0.0075	0.0086	0.0090
13	13	C.0325	0.0325	0.0372	0.0393	33	33	0.269	0.0618	0.0618	0.0708	0.0746
14	14	C.0497	0.0497	0.0570	0.0591	34	34	0.269	0.0813	0.0813	0.0932	0.0982
15	15	C.0656	0.0656	0.0752	0.0793	35	35	0.269	0.1205	0.1205	0.1380	0.1456
16	16	C.0774	0.0774	0.0887	0.0935	36	36	0.270	0.1264	0.1264	0.1448	0.1527
17	17	C.0753	0.0753	0.0863	0.0910	37	37	0.269	0.1265	0.1265	0.1450	0.1529
18	18	C.0691	0.0691	0.0792	0.0835	38	38	0.269	0.1256	0.1256	0.1440	0.1518
19	19	C.0632	0.0632	0.0725	0.0764	39	39	0.269	0.1277	0.1277	0.1463	0.1543
20	20	C.0696	0.0696	0.0798	0.0841	40	40	0.269	0.1277	0.1277	0.1463	0.1543

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 REAMETER REL LENGTH(METER) PT(ATM) TT(DEC K) HT(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 3.2801E C6 3.2801E C6 0.914 11.27 1124.4 1.1882E C6 0.3048 1.000 RUN NO. 52
 MACH 5.10 REAMETER REL LENGTH(FT) FT(PSI) TT(DEC R) HT(LBTU/LBM) RS(FT) HAW/HT
 3.2801E C6 3.2801E C6 165.73 2024.0 510.97 1.0000 1.000

CHAN	TAC	TA(DEC K)	TA(DEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	GS(W/CM2)	CS(BTU/FT2-SEC)	ST(C.907)	ST(0.874)	TIME(SEC)
1	1	317.2	570.9	0.778	0.686	12.675	11.168	2.2265E-04	2.3479E-04	0.107
2	2	321.4	576.5	0.763	0.673	12.609	11.111	2.1966E-04	2.3170E-04	0.089
3	3	320.7	577.3	0.530	0.467	12.620	11.120	1.5226E-04	1.6059E-04	-0.104
4	4	319.8	575.7	0.166	0.146	12.634	11.132	4.7700E-05	5.0307E-05	0.190
5	5	318.5	574.3	0.008	0.007	12.648	11.145	2.3924E-06	2.5230E-06	-2.320
6	6	317.5	572.3	-0.009	-0.008	12.663	11.158	-2.6930E-06	-2.8398E-06	1.944
7	7	317.1	570.8	-0.011	-0.010	12.676	11.169	-3.1349E-06	-3.3056E-06	1.344
8	8	316.8	570.2	-0.010	-0.009	12.681	11.174	-2.9529E-06	-3.1137E-06	0.859
9	9	317.0	570.7	-0.024	-0.021	12.677	11.170	-6.7684E-06	-7.1369E-06	0.957
10	10	317.8	572.0	-0.030	-0.025	12.666	11.160	-8.5094E-06	-9.0787E-06	1.059
11	11	316.3	573.0	-0.034	-0.030	12.657	11.152	-9.7097E-06	-1.0239E-05	1.403
12	12	316.5	574.0	-0.034	-0.048	12.648	11.145	-1.5511E-05	-1.5358E-05	1.104
13	13	316.3	574.7	0.411	0.362	12.642	11.140	1.1788E-04	1.2432E-04	0.435
14	14	320.6	577.0	0.628	0.553	12.622	11.122	1.8037E-04	1.9024E-04	-0.348
15	15	321.0	577.7	0.827	0.729	12.616	11.116	2.3786E-04	2.5088E-04	-0.250
16	16	321.4	578.5	0.975	0.859	12.610	11.111	2.8655E-04	2.9602E-04	0.025
17	17	321.7	579.1	0.949	0.836	12.604	11.106	2.7310E-04	2.8807E-04	0.147
18	18	321.5	579.4	0.870	0.767	12.602	11.104	2.5060E-04	2.6434E-04	0.118
19	19	320.6	577.1	0.738	0.703	12.612	11.122	2.2936E-04	2.4192E-04	0.086
20	20	319.5	575.0	0.800	0.775	12.619	11.137	2.5246E-04	2.6625E-04	0.100
21	21	317.6	572.0	1.183	1.043	12.666	11.160	3.3883E-04	3.5730E-04	0.207
22	22	315.5	575.2	1.321	1.164	12.638	11.136	3.7516E-04	3.9988E-04	0.239
23	23	318.6	573.5	1.048	0.923	12.653	11.149	3.0029E-04	3.1668E-04	0.162
24	24	317.6	571.7	0.258	0.227	12.668	11.162	7.3917E-05	7.7946E-05	0.620
25	25	-C.C	-0.0	*****	*****	*****	*****	*****	*****	0.000
26	26	315.5	568.7	0.003	0.003	12.694	11.185	8.8656E-07	9.3477E-07	1.369
27	27	315.1	567.3	-0.003	-0.003	12.707	11.196	-9.4794E-07	-9.9942E-07	-0.897
28	28	315.3	567.6	-0.004	-0.004	12.704	11.194	-1.2784E-06	-1.3479E-06	-0.216
29	29	314.5	566.8	-0.006	-0.005	12.711	11.200	-1.7056E-06	-1.7982E-06	-0.472
30	30	315.7	568.2	-0.004	-0.003	12.698	11.189	-1.0617E-06	-1.1194E-06	-0.370
31	31	316.4	569.5	0.014	0.012	12.688	11.179	3.9290E-06	4.1428E-06	0.963
32	32	316.6	569.9	0.095	0.084	12.684	11.176	2.7156E-05	2.8634E-05	0.825
33	33	318.0	572.4	0.782	0.689	12.662	11.157	2.2406E-04	2.3627E-04	0.521
34	34	318.5	573.2	1.029	0.907	12.655	11.151	2.9492E-04	3.1101E-04	0.116
35	35	318.3	573.0	1.525	1.344	12.657	11.153	4.3695E-04	4.6079E-04	0.177
36	36	318.8	573.9	1.599	1.409	12.649	11.145	4.5849E-04	4.8352E-04	0.303
37	37	316.5	573.3	1.601	1.411	12.654	11.150	4.5897E-04	4.8402E-04	0.292
38	38	316.6	573.6	1.590	1.401	12.652	11.148	4.5576E-04	4.8064E-04	0.333
39	39	318.6	573.5	1.616	1.424	12.653	11.149	4.6323E-04	4.8851E-04	0.349
40	40	-0.0	-0.0	*****	*****	*****	*****	*****	*****	0.000

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.9318E-01 (SLUGS/FT2-SEC) PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 REYNOLDS NO. 3.35E+06 REL LENGTH(METER) 11.27 PT(ATM) 1163.3 TT(CEG K) 1.2333E C6 TEST NO. 158
 PACH 5.10 RE/FT 1.0333E C6 3.0370E C6 0.914 1.0333E C6 1.2333E C6 0.3048 1.0333E C6 1.0000 RUN NO. 52

CPAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	G/CS	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)
41	61	0.262	C.0555	0.0669	0.0669	0.0669	0.0459	0.0525	0.0525	0.0525	0.0554
42	62	0.264	C.0607	0.0732	0.0732	0.0732	0.0618	0.0707	0.0707	0.0707	0.0745
43	63	0.258	-C.0007	-0.0008	-0.0008	-0.0008	0.0671	0.0768	0.0768	0.0768	0.0809
44	64	0.258	C.0007	0.0008	0.0008	0.0008	0.0646	0.0739	0.0739	0.0739	0.0779
45	65	0.255	C.0043	0.0045	0.0045	0.0045	0.0717	0.0820	0.0820	0.0820	0.0864
46	66	0.260	C.0083	0.0095	0.0095	0.0095	0.0819	0.0937	0.0937	0.0937	0.0987
47	67	0.261	C.0131	0.0150	0.0150	0.0150	0.0931	0.1065	0.1065	0.1065	0.1122
48	68	0.262	C.0479	0.0545	0.0545	0.0545	0.0047	0.0054	0.0054	0.0054	0.0057
49	69	0.263	0.0715	0.0819	0.0819	0.0819	0.0088	0.0101	0.0101	0.0101	0.0106
50	70	0.263	C.0715	0.0819	0.0819	0.0819	0.0364	0.0417	0.0417	0.0417	0.0439
51	71	0.263	C.0738	0.0845	0.0845	0.0845	0.0590	0.0675	0.0675	0.0675	0.0712
52	72	0.264	C.0723	0.0828	0.0828	0.0828	0.0708	0.0810	0.0810	0.0810	0.0853
53	73	0.263	C.0802	0.0918	0.0918	0.0918	0.0738	0.0844	0.0844	0.0844	0.0890
54	74	0.263	0.1076	0.1232	0.1232	0.1232	0.0694	0.0797	0.0797	0.0797	0.0837
55	75	0.263	C.1076	0.1232	0.1232	0.1232	0.0752	0.0860	0.0860	0.0860	0.0907
56	76	0.260	C.0015	0.0017	0.0017	0.0017	0.0796	0.0911	0.0911	0.0911	0.0960
57	77	0.260	C.0069	0.0078	0.0078	0.0078	0.1062	0.1216	0.1216	0.1216	0.1281
58	78	0.261	C.0259	0.0342	0.0342	0.0342	0.1062	0.1216	0.1216	0.1216	0.1281

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TI(LECC K)	TI(JUCULE/XG)	RS(METER)	HAM/HT	TEST NO.	
5.10	3.365E C6	3.097E C6	0.914	11.27	11.63.3	0.3048	1.000	52	
MACH	RE/FT	REL LENGTH(FT)	PI(LPSI)	TI(LECC R)	TI(JUCLE/LBM)	RS(FT)	HAM/HT	RUN NO.	
5.10	1.0323E C6	3.000	165.73	2093.5	530.37	1.0000	1.000		
CHP/	T/C	TM(DEC K)	TM(DEC R)	Q(BTU/FT2-SEC)	CS(M/CM2)	CS(BTU/FT2-SEC)	ST(10.907)	ST(10.87)	TIME(SEC)
41	61	321.4	578.4	0.648	13.262	11.685	2.0599E-04	2.1709E-04	-0.008
42	62	323.7	582.6	0.802	13.225	11.653	2.2530E-04	2.3748E-04	0.073
43	63	317.3	571.1	-0.009	13.326	11.742	-2.4719E-06	-2.6044E-06	0.206
44	64	317.3	571.2	0.010	13.325	11.741	2.6672E-06	2.8102E-06	1.290
45	65	317.6	571.7	0.050	13.320	11.737	1.5948E-05	1.6804E-05	0.613
46	66	319.8	575.6	0.097	13.286	11.707	3.0802E-05	3.2458E-05	0.412
47	67	320.5	577.5	0.174	13.269	11.692	4.8569E-05	5.1134E-05	0.379
48	68	321.8	579.2	0.636	13.255	11.680	1.7808E-04	1.8768E-04	0.232
49	69	-0.0	-0.0	*****	*****	*****	*****	*****	0.000
50	70	322.5	581.2	0.947	13.238	11.664	2.6569E-04	2.8004E-04	-0.116
51	71	323.4	582.1	0.977	13.230	11.657	2.7432E-04	2.8914E-04	0.128
52	72	323.8	582.8	0.956	13.224	11.652	2.6862E-04	2.8314E-04	0.122
53	73	325.5	582.3	1.061	13.228	11.656	2.9785E-04	3.1395E-04	0.208
54	74	-0.0	-0.0	*****	*****	*****	*****	*****	0.000
55	75	323.5	582.3	1.423	13.228	11.656	3.9974E-04	4.2134E-04	0.288
56	76	319.1	574.4	0.020	13.297	11.716	5.4547E-06	5.7478E-06	1.202
57	77	319.4	575.0	0.091	13.292	11.712	2.5448E-05	2.6816E-05	0.757
58	78	320.4	576.7	0.397	13.276	11.698	1.1101E-04	1.1699E-04	0.468
59	79	321.0	577.9	0.609	13.267	11.690	1.7657E-04	1.7975E-04	0.027
60	80	321.8	579.2	0.819	13.255	11.679	2.2957E-04	2.4195E-04	-0.145
61	81	322.5	580.5	0.889	13.244	11.669	2.4521E-04	2.6266E-04	0.095
62	82	322.8	581.1	0.855	13.239	11.665	2.4000E-04	2.5298E-04	0.096
63	83	322.5	581.2	0.949	13.238	11.664	2.6617E-04	2.8054E-04	0.106
64	84	323.0	581.5	1.083	13.235	11.662	3.0407E-04	3.2049E-04	0.167
65	85	320.4	576.9	1.236	13.276	11.698	3.4570E-04	3.6431E-04	0.213
66	86	317.6	572.1	0.066	13.317	11.734	1.7582E-05	1.8525E-05	0.676
67	87	318.4	573.0	0.118	13.309	11.727	3.2805E-05	3.4566E-05	0.722
68	88	319.3	575.0	0.484	13.291	11.711	1.3526E-04	1.4253E-04	0.623
69	89	319.5	575.9	0.784	13.284	11.705	2.1528E-04	2.3108E-04	0.010
70	90	320.5	576.9	0.940	13.275	11.697	2.6287E-04	2.7702E-04	-0.070
71	91	321.0	578.8	0.978	13.258	11.682	2.7404E-04	2.8881E-04	0.136
72	92	322.0	579.5	0.920	13.252	11.677	2.5772E-04	2.7162E-04	0.101
73	93	321.9	579.4	0.995	13.254	11.678	2.7825E-04	2.9431E-04	0.107
74	94	321.7	579.0	1.056	13.257	11.681	2.9580E-04	3.1175E-04	0.137
75	95	322.1	579.7	1.408	13.251	11.676	3.9459E-04	4.1588E-04	0.222

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8573E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.2835E 06 4.2835E 06 3.000 F/HS(0.507) F/HS(0.874) H/HS(1.000) H/HS(1.000) H/HS(1.000) H/HS(0.874)
 REL LENGTH(METER) FT(ATM) 15.14 1143.2 1.210E 06 1.000 HAM/HT 0.1289 0.1359
 MACH 5.10 1.210E 06 3.000 PT(P/SI) 222.58 2057.8 520.33 1.0000 RS(METER) 0.3048 0.1561
 REL LENGTH(FT) 3.000 222.58 2057.8 520.33 1.0000 RS(FT) 0.3048 0.1561
 CONSTANT SET SZ1

CHAN	T/C	FM/FT	C/CS	F/HS(1.000)	F/HS(0.507)	F/HS(0.874)	CFAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	C.262	C.0863	0.0759	0.0800	0.0800	21	21	0.262	0.1127	0.1127	0.1289	0.1359
2	2	C.264	C.0647	0.0740	0.0780	0.0780	22	22	0.263	0.1294	0.1294	0.1481	0.1561
3	3	C.263	C.0447	0.0512	0.0540	0.0540	23	23	0.262	0.1036	0.1036	0.1186	0.1250
4	4	C.262	C.0146	0.0167	0.0175	0.0175	24	24	C.261	0.0259	0.0259	0.0296	0.0312
5	5	C.261	0.0012	0.0014	0.0014	0.0014	25	25	*****	*****	*****	*****	*****
6	6	C.260	0.0001	0.0001	0.0001	0.0001	26	26	0.0008	0.0008	0.0008	0.0009	0.0009
7	7	C.259	0.0004	0.0004	0.0004	0.0004	27	27	0.0003	0.0003	0.0003	0.0004	0.0004
8	8	C.258	0.0005	0.0005	0.0005	0.0005	28	28	0.0001	0.0001	0.0001	0.0001	0.0001
9	9	C.259	0.0010	0.0012	0.0012	0.0012	29	29	0.0001	0.0001	0.0001	0.0001	0.0001
10	10	C.260	0.0011	0.0012	0.0012	0.0012	30	30	0.0003	0.0003	0.0003	0.0003	0.0004
11	11	C.261	0.0015	0.0017	0.0017	0.0017	31	31	0.0020	0.0020	0.0020	0.0023	0.0024
12	12	C.261	0.0014	0.0016	0.0016	0.0016	32	32	0.0097	0.0097	0.0097	0.0111	0.0117
13	13	C.262	0.0369	0.0422	0.0445	0.0445	33	33	0.0261	0.0261	0.0261	0.0771	0.0929
14	14	C.263	0.0528	0.0528	0.0537	0.0537	34	34	0.0262	0.0262	0.0262	0.1056	0.1273
15	15	C.264	0.0716	0.0820	0.0820	0.0820	35	35	0.0262	0.0262	0.0262	0.1543	0.1860
16	16	C.264	0.0849	0.0971	0.1024	0.1024	36	36	0.0263	0.0263	0.0263	0.1598	0.1927
17	17	C.265	0.0827	0.0947	0.0998	0.0998	37	37	0.0263	0.0263	0.0263	0.1831	0.1930
18	18	C.265	0.0747	0.0855	0.0901	0.0901	38	38	0.0263	0.0263	0.0263	0.1581	0.1907
19	19	C.265	0.0675	0.0772	0.0814	0.0814	39	39	0.0263	0.0263	0.0263	0.1603	0.1934
20	20	C.263	0.0755	0.0755	0.0911	0.0911	40	40	*****	*****	*****	*****	*****

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***											
MACH		REL	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10	4.6845E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06
5.10	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06	4.2839E-06
CHAN	T/C	TWIDEG K)	TWIDEG R)	C(W/CM2)	C(HTU/FT2-SEC)	CS(W/CM2)	CS(HTU/FT2-SEC)	ST(O.507)	ST(O.874)	TIME(SEC)	TEST NO.
1	1	216.2	569.1	1.000	0.881	15.072	13.281	2.0591E-04	2.2124E-04	0.091	158
2	2	216.3	572.9	0.972	0.856	15.034	13.247	2.0466E-04	2.1574E-04	0.054	53
3	3	217.2	576.9	0.974	0.993	15.054	13.255	1.4161E-04	1.4927E-04	-0.150	
4	4	215.9	568.5	0.920	0.194	15.077	13.285	4.6229E-05	4.8013	-0.013	
5	5	214.7	566.4	0.918	0.016	15.100	13.305	3.7716E-06	3.9747E-06	-2.198	
6	6	213.4	564.1	0.901	0.001	15.123	13.325	1.6825E-07	1.7729E-07	3.137	
7	7	212.1	562.4	-0.905	-0.005	15.140	13.340	-1.2225E-06	-1.2881E-06	1.549	
8	8	212.1	561.8	-0.008	-0.007	15.146	13.346	-1.7014E-06	-1.7927E-06	1.526	
9	9	212.4	562.4	-0.015	-0.013	15.140	13.340	-3.0874E-06	-3.2532E-06	2.174	
10	10	212.2	563.7	-0.016	-0.014	15.126	13.328	-3.3504E-06	-3.5305E-06	2.705	
11	11	212.9	565.0	-0.022	-0.019	15.114	13.317	-4.5907E-06	-4.8376E-06	2.617	
12	12	214.6	566.2	-0.021	-0.018	15.101	13.306	-4.6351E-06	-4.8376E-06	2.617	
13	13	215.1	567.2	0.557	0.491	15.092	13.298	1.1686E-04	1.2316E-04	0.373	
14	14	216.6	570.3	0.796	0.701	15.061	13.270	1.6723E-04	1.7627E-04	-0.488	
15	15	217.5	571.6	1.078	0.950	15.048	13.259	2.2668E-04	2.3894E-04	-0.311	
16	16	218.1	572.6	1.276	1.124	15.037	13.250	2.6850E-04	2.8313E-04	-0.010	
17	17	218.7	573.6	1.243	1.095	15.027	13.241	2.6183E-04	2.7601E-04	0.127	
18	18	219.0	574.3	1.122	0.988	15.020	13.235	2.3640E-04	2.4921E-04	0.073	
19	19	218.0	572.3	1.015	0.894	15.040	13.252	2.363E-04	2.2519E-04	0.024	
20	20	217.1	570.8	1.137	1.001	15.055	13.266	2.3895E-04	2.5186E-04	0.071	
21	21	215.5	568.0	1.699	1.497	15.084	13.291	3.5658E-04	3.7580E-04	0.248	
22	22	217.1	570.8	1.348	1.717	15.055	13.266	4.0935E-04	4.3179E-04	0.286	
23	23	216.1	569.0	1.562	1.377	15.073	13.281	3.2805E-04	3.4575E-04	0.236	
24	24	214.8	566.7	0.391	0.345	15.097	13.303	8.1978E-05	8.6392E-05	0.611	
25	25	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****	
26	26	212.7	562.5	0.011	0.010	15.135	13.336	2.3892E-06	2.5175E-06	0.691	
27	27	212.2	561.9	0.005	0.004	15.145	13.345	1.0206E-06	1.0754E-06	2.319	
28	28	212.0	561.6	0.002	0.001	15.158	13.347	3.3233E-07	3.5018E-07	3.295	
29	29	212.0	561.6	0.001	0.001	15.148	13.347	2.1667E-07	2.2830E-07	9.759	
30	30	212.6	563.0	0.005	0.004	15.134	13.335	9.5284E-07	1.0040E-06	0.642	
31	31	213.5	564.1	0.030	0.026	15.120	13.323	6.2627E-06	6.5994E-06	0.844	
32	32	213.9	565.1	0.146	0.129	15.113	13.317	3.0645E-05	3.2293E-05	0.888	
33	33	214.5	566.8	1.164	1.025	15.095	13.301	2.4396E-04	2.511E-04	0.540	
34	34	215.5	567.8	1.593	1.433	15.085	13.292	3.7341E-04	3.5412E-04	0.196	
35	35	215.9	568.5	2.726	2.050	15.078	13.286	4.8827E-04	5.1460E-04	0.248	
36	36	216.7	570.0	2.407	2.121	15.063	13.273	5.0570E-04	5.3301E-04	0.350	
37	37	217.0	570.1	2.410	2.123	15.062	13.272	5.0639E-04	5.3373E-04	0.341	
38	38	217.0	570.6	2.380	2.097	15.058	13.268	5.0029E-04	5.2732E-04	0.380	
39	39	217.0	570.7	2.414	2.127	15.057	13.267	5.0753E-04	5.3495E-04	0.392	
40	40	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.9887E-31 (SLUGS/FT2-SEC) FRCBE VC.F = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***											
MACH	REINFORCER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOLLE/KG)	RS(METER)	HAW/HT	TEST NC.	158		
5.10	4.0356E C6	4.0356E C6	13.14	1187.4	1.2016E C6	0.3048	1.000	RUN NC.	53		
MACH	REL LENGTH(FT)	REL LENGTH(FT)	PT(PST)	TT(DEG F)	HT(LBU/LBN)	RS(FT)	HAW/HT				
5.10	1.3355E C6	4.0356E C6	322.58	2137.3	542.50	1.0000	1.000				
CHAN	T/C	U/C5	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	U/C5	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
41	61	C.0688	C.0688	C.0786	C.0828	59	79	C.0560	C.0560	C.0640	C.0674
42	62	C.0779	C.0779	C.0890	C.0937	60	80	C.0754	C.0754	C.0861	C.0907
43	63	C.0001	C.0001	C.0001	C.0001	61	81	C.0831	C.0831	C.0950	C.1000
44	64	C.0026	C.0026	C.0030	C.0031	62	82	C.0807	C.0807	C.0922	C.0971
45	65	C.0089	C.0089	C.0101	C.0107	63	83	C.0910	C.0910	C.1040	C.1095
46	66	C.0134	C.0134	C.0153	C.0161	64	84	C.1050	C.1050	C.1200	C.1264
47	67	C.0188	C.0188	C.0215	C.0227	65	85	C.1214	C.1214	C.1387	C.1460
48	68	C.0632	C.0632	C.0722	C.0751	66	86	C.0074	C.0074	C.0085	C.0089
49	69	C.0000	C.0000	C.0000	C.0000	67	87	C.0125	C.0125	C.0142	C.0150
50	70	C.0730	C.0730	C.0863	C.0919	68	88	C.0468	C.0468	C.0535	C.0563
51	71	C.0981	C.0981	C.1121	C.1180	69	89	C.0822	C.0822	C.0939	C.0988
52	72	C.0942	C.0942	C.1100	C.1158	70	90	C.0995	C.0995	C.1137	C.1197
53	73	C.1067	C.1067	C.1315	C.1384	71	91	C.1014	C.1014	C.1159	C.1220
54	74	C.0000	C.0000	C.0000	C.0000	72	92	C.0967	C.0967	C.1105	C.1164
55	75	C.1561	C.1561	C.1784	C.1879	73	93	C.1059	C.1059	C.1210	C.1274
56	76	C.0028	C.0028	C.0032	C.0034	74	94	C.1146	C.1146	C.1310	C.1379
57	77	C.0050	C.0050	C.0103	C.0108	75	95	C.1576	C.1576	C.1801	C.1897
58	78	C.0381	C.0381	C.0435	C.0458						

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH RE/METER REL LENGTH(METER) PT (ATM) TT(DEG K) FT(JCULE/KG) RS(MEYER) PAW/HT TEST NO. 158
5.10 4.3326E C6 4.0166E C6 0.914 0.001 1187.4 1.2616E 06 0.3048 1.000 RUN NO. 53
MACH REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAM/HT
5.10 1.3399E C6 4.0166E 06 3.300 222.58 2137.3 542.50 1.0000 1.000

CHAN	I/C	TIME(SEC)	W(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	SI(10.907)	SI(10.874)	TIME(SEC)
41	61	318.6	1.093	0.963	15.888	14.000	2.2358E-04	2.3548E-04	0.015
42	62	319.5	1.089	0.963	15.865	13.979	2.5313E-04	2.6662E-04	0.113
43	63	313.2	0.001	0.001	15.985	14.085	1.8522E-07	1.9500E-07	3.722
44	64	313.5	0.042	0.037	15.992	14.082	8.4839E-06	8.9223E-06	0.707
45	65	314.1	0.142	0.125	15.970	14.072	3.4825E-05	3.0349E-05	0.503
46	66	315.1	0.214	0.188	15.953	14.056	4.3449E-05	4.5792E-05	0.353
47	67	316.2	0.300	0.265	15.932	14.038	6.1256E-05	6.4505E-05	0.332
48	68	317.4	1.006	0.887	15.912	14.020	2.0554E-04	2.1645E-04	0.207
49	65	-0.0	*****	*****	*****	*****	*****	*****	0.000
50	70	318.7	1.478	1.302	15.888	13.599	3.0237E-04	3.1846E-04	-0.106
51	71	319.3	1.557	1.372	15.876	13.989	3.1884E-04	3.3581E-04	0.159
52	72	319.7	1.527	1.346	15.870	13.964	3.1285E-04	3.2952E-04	0.153
53	73	319.0	1.695	1.493	15.882	13.994	3.4679E-04	3.6525E-04	0.237
54	74	-0.0	*****	*****	*****	*****	*****	*****	0.000
55	75	315.8	2.477	2.183	15.857	12.981	5.0751E-04	5.3455E-04	0.347
56	76	315.1	0.045	0.039	15.953	14.057	9.1079E-06	9.5902E-06	0.856
57	77	315.8	0.144	0.127	15.940	14.045	2.9303E-05	3.0857E-05	0.703
58	78	316.8	0.636	0.534	15.922	14.029	1.2367E-04	1.3024E-04	0.462
59	79	317.6	0.891	0.785	15.908	14.017	1.8205E-04	1.9173E-04	-0.018
60	80	318.5	1.198	1.056	15.890	14.001	2.4507E-04	2.5811E-04	-0.195
61	81	319.5	1.320	1.163	15.874	13.987	2.7622E-04	2.8461E-04	0.081
62	82	319.6	1.281	1.129	15.871	13.984	2.6240E-04	2.7638E-04	0.088
63	83	319.6	1.444	1.273	15.870	13.984	2.9581E-04	3.1156E-04	0.099
64	84	319.7	1.666	1.468	15.869	13.983	3.4132E-04	3.5951E-04	0.179
65	85	317.4	1.932	1.702	15.911	14.023	3.9463E-04	4.1559E-04	0.227
66	86	313.8	0.119	0.105	15.976	14.077	2.4157E-05	2.5434E-05	0.613
67	87	315.1	0.199	0.175	15.953	14.057	4.3508E-05	4.2653E-05	0.687
68	88	315.9	0.747	0.658	15.938	14.044	1.3221E-04	1.6027E-04	0.603
69	89	316.6	1.309	1.153	15.925	14.032	2.6713E-04	2.8130E-04	0.098
70	90	317.4	1.584	1.395	15.911	14.019	3.2346E-04	3.4064E-04	0.040
71	91	318.5	1.612	1.420	15.891	14.002	3.2965E-04	3.4719E-04	0.220
72	92	319.0	1.536	1.354	15.883	13.995	3.1437E-04	3.3110E-04	0.193
73	93	319.1	1.681	1.481	15.880	13.993	3.4415E-04	3.6245E-04	0.195
74	94	319.1	1.821	1.604	15.881	13.993	3.7262E-04	3.9246E-04	0.231
75	95	315.3	2.502	2.205	15.877	13.990	5.1233E-04	5.3960E-04	0.318

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7772E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 PACH RE/METER REL LENGTH(METER) PT(ATM) TT(CEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 1.4381E C6 1.315CE C6 C.514 4.49 1119.7 1.1828E C6 0.3048 1.000 RUN NO. 54
 PACH RE/FT REL LENGTH(FT) PT(PSI) TT(CEG R) FT(BTL/LBP) RS(FT) HAM/HT CONSTANT SET 22.1
 5.10 4.3684E C6 1.315CE C6 3.000 65.97 2015.3 508.82 1.000 1.000

CHAN	T/O	H/FT	Q/CS	F/H/S(1.000)	H/H/S(0.907)	F/H/S(0.874)	CFAN	T/C	H/HT	Q/4S	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
1	1	C.259	C.CC23	C.CC23	C.CC27	0.0029	11	11	0.261	0.0536	0.0536	0.0613	0.0646
2	2	C.260	C.CC90	0.0590	0.0108	0.0396	12	12	0.261	0.0528	0.0528	0.0604	0.0637
3	3	C.260	C.C329	0.0377	0.0376	0.0396	13	13	0.260	0.0536	0.0536	0.0613	0.0646
4	4	C.260	C.C377	0.0377	0.0431	0.0454	14	14	0.260	0.0512	0.0512	0.0589	0.0617
5	5	C.260	0.0467	0.0467	0.0534	0.0563	15	15	0.260	0.0540	0.0540	0.0618	0.0651
6	6	C.261	C.0493	0.0493	0.0564	0.0594	16	16	0.259	0.0001	0.0001	0.0001	0.0001
7	7	C.261	C.0571	0.0571	0.0654	0.0689	17	17	0.259	-0.0002	-0.0002	-0.0002	-0.0002
8	8	C.261	C.0604	0.0604	0.0691	0.0729	18	18	0.259	0.0017	0.0017	0.0017	0.0021
9	9	C.261	C.0572	0.0572	0.0654	0.0689	19	19	0.260	0.0075	0.0075	0.0085	0.0090
10	10	C.261	C.0516	0.0516	0.0590	0.0622	20	20	0.260	0.0303	0.0303	0.0347	0.0365

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 WACH REZMETER REL LENGTH(METER) PT(ATM) TT(DEC K) HT(JOULE/KG) RS(METTR) HAW/HT TEST NO. 158
 5.10 1.438E C6 1.315C C6 4.49 1119.7 1.1828E C6 0.3048 1.000 RUN NO. 54
 WACH RE/FT REL LENGTH(FT) PT(PSI) TT(DEC R) FT(LBTL/LBM) RS(FT) HAW/HT
 5.10 4.3634E C5 1.315C C6 3.000 65.97 2015.5 508.62 1.0000 1.000

CHAN	TAC	TM(DEC K)	TM(DEC R)	C(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(IG-907)	ST(IG-874)	TIME(SEC)
1	1	305.3	547.6	0.019	0.017	8.064	7.105	1.3338E-05	1.4035E-05	0.649
2	2	306.0	548.8	0.072	0.064	6.057	7.100	5.1482E-05	5.4248E-05	0.613
3	3	306.4	551.5	0.253	0.233	8.053	7.096	1.8815E-04	1.9826E-04	0.298
4	4	306.7	552.1	0.304	0.267	8.050	7.093	2.1590E-04	2.2751E-04	0.035
5	5	306.7	552.1	0.376	0.331	8.047	7.090	2.6741E-04	2.8179E-04	-0.298
6	6	307.1	552.7	0.397	0.349	8.047	7.090	2.8224E-04	2.9743E-04	-0.361
7	7	307.1	552.8	0.460	0.405	8.046	7.088	3.2715E-04	3.4475E-04	-0.150
8	8	307.3	553.2	0.486	0.428	8.044	7.088	3.4615E-04	3.6479E-04	0.127
9	9	307.4	553.4	0.460	0.403	8.043	7.087	3.2741E-04	3.4504E-04	0.133
10	10	307.2	552.9	0.415	0.366	8.046	7.090	2.9532E-04	3.1121E-04	0.100
11	11	307.1	552.8	0.431	0.380	8.046	7.090	3.0697E-04	3.2349E-04	0.085
12	12	307.1	552.8	0.425	0.374	8.047	7.090	3.0246E-04	3.1874E-04	0.093
13	13	306.7	552.1	0.432	0.380	8.050	7.093	3.0706E-04	3.2358E-04	0.111
14	14	306.6	551.8	0.412	0.363	8.052	7.095	2.9299E-04	3.0874E-04	0.115
15	15	306.5	551.6	0.435	0.383	8.053	7.096	3.0916E-04	3.2578E-04	0.109
16	16	304.6	548.2	0.001	0.001	8.071	7.112	6.5122E-07	6.8678E-07	-4.628
17	17	304.6	548.3	-0.002	-0.001	8.071	7.112	-1.1278E-06	-1.1883E-06	4.936
18	18	305.4	549.7	0.014	0.012	8.063	7.105	9.8266E-06	1.0354E-05	0.349
19	19	305.9	550.6	0.060	0.053	8.058	7.101	4.211E-05	4.5086E-05	0.627
20	20	306.2	551.1	0.244	0.215	8.055	7.098	1.7367E-04	1.8301E-04	0.326

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1708E-01 (SLUGS/FT2-SECT)

PROBE NO. = 1

PRELIMINARY DATA ***
TEST NO. 158
RUN NO. 54

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. ***
PACH RE/METER REL LENGTH(METER) PT(ATM) T1(DEG K) MT(JOULE/KG) RS(METER) HAM/HT
5.10 1.4516E C6 1.2273E C6 0.514 4.49 1113.6 1.1756E C6 0.3048 1.000
PACH RE/FT REL LENGTH(FT) PT(PST) T1(DEG R) FT(FTU/LP?) RS(FT) HAM/HT
5.10 4.4244E C6 1.2273E C6 3.000 65.97 2004.24 505.55 1.0000 1.000

CHAN	T/C	H/FT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	H/HT	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
21	39	C.222	C.C529	C.C605	0.0637	0.0637	39	39	0.262	0.0445	C.0445	0.0509	0.0537
22	40	C.262	C.C546	C.C625	0.0658	0.0658	40	40	0.262	0.0475	C.0475	0.0544	0.0573
23	41	C.262	C.0427	C.C489	0.0515	0.0515	41	41	0.262	0.0575	C.0575	0.0658	0.0693
24	42	C.262	C.C325	0.0371	C.0392	C.0392	42	42	0.263	0.0606	0.0606	0.0693	0.0733
25	43	C.262	C.C160	0.0183	0.0193	0.0193	43	43	0.263	0.0578	C.0578	0.0661	0.0697
26	44	C.262	C.C035	0.0040	0.0042	0.0042	44	44	0.263	0.0539	C.0539	0.0617	0.0650
27	45	C.261	C.C013	0.0015	0.0016	0.0016	45	45	0.262	0.0507	0.0507	0.0580	0.0611
28	46	C.261	C.C004	0.0004	0.0005	0.0005	46	46	0.262	0.0486	C.0486	0.0556	0.0586
29	47	C.260	C.C002	0.0002	0.0002	0.0002	47	47	0.263	0.0525	0.0525	0.0601	0.0633
30	48	C.260	-0.0003	-0.0003	-0.0003	-0.0003	48	48	0.262	0.0495	0.0495	0.0566	0.0597
31	49	C.260	-0.0004	-0.0004	-0.0004	-0.0004	49	49	0.262	0.0491	0.0491	0.0562	0.0593
32	50	C.260	-0.0007	-0.0111	-0.0117	-0.0117	50	50	0.262	0.0492	C.0492	0.0563	0.0593
33	51	C.260	C.C003	0.0003	0.0003	0.0003	51	56	0.260	-0.0007	-0.0007	-0.0009	-0.0009
34	52	C.261	C.C003	0.0003	0.0004	0.0004	52	57	0.261	-0.0004	-0.0004	-0.0005	-0.0005
35	53	C.261	0.0008	0.0010	C.C010	C.C010	53	58	0.261	0.0011	0.0011	0.0013	0.0013
36	54	C.261	C.C022	0.0025	0.0027	0.0027	54	59	0.262	0.0098	0.0098	0.0112	0.0118
37	55	C.261	C.C085	0.0098	0.0103	0.0103	55	60	0.262	0.0332	0.0332	0.0380	0.0400
38	55	C.262	C.C037	0.0362	0.0392	0.0392	55	60	0.262	0.0332	0.0332	0.0380	0.0400

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD, CALIF. *** PRELIMINARY DATA ***

PACH RE/METER REL 1.4273E 05 1.3273E 06 3.000 Q (W/CM2) Q (BTU/FT2-SEC) CS (BTU/FT2-SEC) ST (C.907) ST (O.874) TIME (SEC)
 5.10 1.4216E 06 1.3273E 06 4.49 PT (ATM) TT (DEG K) HT (JULIE/KG) RS (METER) HAM/MT TEST NO. 158
 PACH RE/FT REL 1.3273E 06 65.97 PT (PC) TT (DEG R) FT (BTU/LPM) RS (FT) PAM/MT RUN NO. 54
 5.10 4.4244E 05 1.3273E 06 3.000 Q (W/CM2) Q (BTU/FT2-SEC) CS (BTU/FT2-SEC) ST (C.907) ST (O.874) TIME (SEC)

CHAN	TAC	T (DEG K)	T (DEG R)	Q (W/CM2)	Q (BTU/FT2-SEC)	CS (BTU/FT2-SEC)	ST (C.907)	ST (O.874)	TIME (SEC)
21	21	306.4	511.5	0.472	0.372	7.988	3.0156E-04	3.1782E-04	0.048
22	22	307.5	513.6	0.435	0.384	7.977	3.1142E-04	3.2823E-04	0.104
23	23	307.1	512.8	0.341	0.300	7.981	2.4366E-04	2.5680E-04	-0.070
24	24	307.0	512.7	0.259	0.228	7.982	1.8521E-04	1.9520E-04	0.069
25	25	306.5	511.6	0.128	0.113	7.987	9.1399E-05	9.6326E-05	0.307
26	26	306.3	511.3	0.028	0.025	7.989	2.0073E-05	2.1154E-05	-0.263
27	27	305.7	510.2	0.010	0.009	7.995	7.3366E-06	7.7317E-06	-1.309
28	28	305.2	509.5	0.004	0.003	7.999	2.4972E-06	2.6316E-06	-2.828
29	29	304.8	508.7	0.002	0.001	8.003	1.1498E-06	1.2117E-06	-2.298
30	30	304.4	507.9	-0.002	-0.002	8.007	-1.5830E-06	-1.6702E-06	1.429
31	31	304.4	508.0	-0.003	-0.003	8.007	-2.3868E-06	-2.5151E-06	0.683
32	32	304.6	508.4	-0.078	-0.068	8.005	-5.5312E-05	-5.8286E-05	1.022
33	33	304.9	508.8	0.002	0.002	8.003	1.6171E-06	1.7041E-06	0.733
34	34	305.1	509.2	0.002	0.002	8.000	1.7584E-06	1.8530E-06	-0.900
35	35	305.3	509.5	0.007	0.006	7.999	4.7971E-06	5.0552E-06	-0.221
36	36	305.7	510.3	0.018	0.016	7.995	1.2597E-05	1.3275E-05	0.205
37	37	306.0	510.9	0.068	0.060	7.992	4.8681E-05	5.1303E-05	0.477
38	38	306.4	511.6	0.253	0.223	7.988	1.8059E-04	1.9033E-04	0.319
39	39	306.3	511.3	0.356	0.313	7.989	2.5397E-04	2.6766E-04	-0.029
40	40	306.8	512.3	0.379	0.334	7.984	2.7106E-04	2.8568E-04	-0.173
41	41	307.1	512.7	0.459	0.404	7.981	3.2801E-04	3.4571E-04	-0.218
42	42	307.8	513.7	0.483	0.426	7.976	3.4583E-04	3.6429E-04	-0.109
43	43	307.8	514.0	0.461	0.406	7.974	3.2967E-04	3.4748E-04	0.103
44	44	307.1	513.9	0.430	0.379	7.975	3.0164E-04	3.2425E-04	0.098
45	45	307.2	512.5	0.404	0.356	7.980	2.8906E-04	3.0466E-04	0.070
46	46	307.2	513.0	0.388	0.342	7.980	2.7756E-04	2.9233E-04	0.064
47	47	307.3	513.1	0.419	0.369	7.979	2.9550E-04	3.1567E-04	0.001
48	48	306.5	512.5	0.393	0.348	7.983	2.8218E-04	2.9741E-04	0.070
49	49	306.5	512.5	0.352	0.346	7.982	2.8032E-04	2.9544E-04	0.067
50	50	306.6	511.8	0.393	0.346	7.986	2.8053E-04	2.9565E-04	0.041
51	51	304.7	508.5	-0.008	-0.005	8.004	-4.2681E-06	-4.4576E-06	1.264
52	52	305.2	509.5	-0.003	-0.003	7.999	-2.4280E-06	-2.5587E-06	1.773
53	53	305.4	509.7	0.009	0.008	7.998	6.3167E-06	6.6567E-06	0.414
54	54	306.7	512.0	0.078	0.069	7.985	5.5775E-05	5.8782E-05	0.529
55	55	306.5	512.4	0.265	0.234	7.983	1.8945E-04	1.9967E-04	0.271

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1757E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NAVIGATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH	RE/FEET	REL	LENGTH(METER)	PT(ATM)	T(DEG K)	F(1 JOULE/KG)	RS(METER)	HAM/HT	TEST NO.
5.10	1.4141E C6	1.2531E C6	0.914	4.49	1130.9	1-1959E C6	G.3046	1.000	158
PACH	RE/FT	REL	LENGTH(FT)	PT(PST)	T(DEG R)	FT(LB/LBM)	RS(FT)	HAM/HT	RUN NO.
5.10	4.3131E C6	1.2531E C6	3.000	65.97	2035.7	514.21	1.0000	1.000	54
CHAN	T/C	HM/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	H/HS(0.874)	H/HS(0.907)	H/HS(0.874)
56	71	C.255	C.CCC	C.CCC	C.CCC	C.CCC	G.C5C2	0.0574	0.0405
57	72	C.255	-C.CCC	-0.0007	-0.0007	-0.0007	G.C43	0.0735	0.0774
58	73	C.255	C.CCC	C.CCC	0.0300	0.0300	0.0621	0.0710	0.0748
59	74	C.255	C.CCC	0.0001	0.0001	0.0001	0.0564	0.0644	0.0679
60	75	C.255	-C.CCC	-0.0001	-0.0001	-0.0001	0.0554	0.0634	0.0668
61	76	C.255	-C.CCC	-0.0001	-0.0001	-0.0001	G.C719	0.0594	0.0626
62	77	C.255	C.CCC	0.0003	0.0004	0.0004	0.0537	0.0615	0.0648
63	78	C.255	C.CCC	G.C022	G.C022	G.C022	0.0510	0.0583	0.0614
64	79	C.257	C.CCC	0.0078	0.0082	0.0082	G.C348	G.0627	0.0660
65	80	C.257	C.C354	0.0354	0.0426	0.0426	G.C358	0.0628	0.0660

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
PACH	RE/METER	REL	RELE	TM(DEG R)	Q(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.	RSI(FT)	HAM/HT	RUN NO.
5.10	1.4141E C6	1.2931E C6	0.914	1130.9	0.000	0.000	8.198	7.223	7.6214E-08	0.3048	1.000	158	0.3048	1.000	54
5.10	4.3103E C5	1.2931E C6	3.000	2035.7	0.000	0.000	8.197	7.222	-3.3085E-06	0.3048	1.000	158	0.3048	1.000	54
56	71	323.8	547.9	547.9	0.000	0.000	8.197	7.222	-3.3085E-06	0.3048	1.000	8.0278E-08	0.3048	1.000	55.393
57	72	303.9	547.0	547.0	-0.004	-0.004	8.194	7.220	3.8227E-08	0.3048	1.000	64.750	0.3048	1.000	0.299
58	73	304.2	547.5	547.5	0.000	0.000	8.192	7.219	3.7995E-07	0.3048	1.000	4.0267E-08	0.3048	1.000	3.332
59	74	304.4	547.9	547.9	0.001	0.001	8.189	7.215	-6.8485E-07	0.3048	1.000	-7.2142E-07	0.3048	1.000	4.550
60	75	304.7	548.5	548.5	-0.001	-0.001	8.186	7.213	-3.9158E-07	0.3048	1.000	-4.1249E-07	0.3048	1.000	13.192
61	76	305.0	549.0	549.0	0.002	0.002	8.185	7.212	1.6982E-06	0.3048	1.000	1.7890E-06	0.3048	1.000	-2.555
62	77	305.1	548.2	548.2	0.002	0.002	8.184	7.211	1.2534E-05	0.3048	1.000	1.3626E-05	0.3048	1.000	0.163
63	78	305.3	549.5	549.5	0.018	0.018	8.178	7.206	3.9347E-05	0.3048	1.000	4.1451E-05	0.3048	1.000	0.360
64	79	305.5	550.5	550.5	0.056	0.056	8.178	7.205	2.0397E-04	0.3048	1.000	2.1488E-04	0.3048	1.000	0.107
65	80	305.8	550.5	550.5	0.289	0.289	8.172	7.201	2.8951E-04	0.3048	1.000	3.0500E-04	0.3048	1.000	-0.343
66	81	306.4	551.5	551.5	0.410	0.410	8.169	7.198	3.7048E-04	0.3048	1.000	3.9031E-04	0.3048	1.000	-0.183
67	82	306.7	552.1	552.1	0.525	0.525	8.162	7.192	3.5795E-04	0.3048	1.000	3.7714E-04	0.3048	1.000	0.042
68	83	307.4	553.4	553.4	0.507	0.507	8.159	7.189	3.2493E-04	0.3048	1.000	3.4235E-04	0.3048	1.000	-0.001
69	84	307.7	553.9	553.9	0.460	0.460	8.152	7.183	3.1967E-04	0.3048	1.000	3.3683E-04	0.3048	1.000	-0.010
70	85	308.4	555.1	555.1	0.452	0.452	8.150	7.181	2.9557E-04	0.3048	1.000	3.1565E-04	0.3048	1.000	-0.014
71	86	308.7	555.6	555.6	0.423	0.423	8.146	7.178	3.0991E-04	0.3048	1.000	3.2655E-04	0.3048	1.000	-0.007
72	87	309.1	556.4	556.4	0.438	0.438	8.138	7.171	2.9395E-04	0.3048	1.000	3.0976E-04	0.3048	1.000	0.001
73	88	309.9	557.8	557.8	0.415	0.415	8.132	7.165	3.1590E-04	0.3048	1.000	3.3290E-04	0.3048	1.000	-0.008
74	89	310.3	558.5	558.5	0.445	0.445	8.140	7.172	3.1580E-04	0.3048	1.000	3.3278E-04	0.3048	1.000	-0.001
75	90	309.7	557.5	557.5	0.446	0.446	8.140	7.172	3.1580E-04	0.3048	1.000	3.3278E-04	0.3048	1.000	-0.001

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1621E-01 (SLUGS/FT2-SECT)

PROBE NO. = 2

MATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.572E C6 2.3529E C6 3.000
 REL LENGTH(METER) PT(ATM) 8.17
 MACH 5.10 7.843E C5 2.3529E C6 3.000
 REL LENGTH(FT) PT(PSI) 120.05
 RS(METER) C.3048
 RS(FT) 1.0000
 HAW/HT 1.000
 HAW/HT 1.000
 TEST NG. 158
 RUN NO. 55
 CONSTANT SIFT 22/

CHAN	T/C	M/PT	G/CS	M/HS(1.000)	H/HS(10.907)	F/HS(10.874)	CHAN	T/C	H/HT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.258	0.0023	0.0027	0.0028	0.0028	11	11	0.261	0.0432	0.0494	0.0520	0.0520
2	2	0.259	0.0091	0.0104	0.0109	0.0109	12	12	0.261	0.0405	0.0463	0.0488	0.0488
3	3	0.260	0.0292	0.0334	0.0352	0.0352	13	13	0.260	0.0470	0.0537	0.0566	0.0566
4	4	0.261	0.0300	0.0343	0.0361	0.0361	14	14	0.260	0.0443	0.0507	0.0534	0.0534
5	5	0.261	0.0330	0.0377	0.0397	0.0397	15	15	0.260	0.0485	0.0554	0.0584	0.0584
6	6	0.261	0.0340	0.0389	0.0410	0.0410	16	16	0.257	-0.0002	-0.0002	-0.0002	-0.0002
7	7	0.261	0.0429	0.0491	0.0517	0.0517	17	17	0.257	-0.0004	-0.0004	-0.0005	-0.0005
8	8	0.262	0.0517	0.0591	0.0623	0.0623	18	18	0.259	0.0012	0.0014	0.0014	0.0014
9	9	0.261	0.0482	0.0552	0.0581	0.0581	19	19	0.259	0.0068	0.0076	0.0082	0.0082
10	10	0.261	0.0427	0.0489	0.0515	0.0515	20	20	0.260	0.0239	0.0274	0.0288	0.0288

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	RUN NO.	
5.10	2.5722E C6	2.3520E C6	8.17	1130.5	1.1958E C6	0.3048	1.000	158	55	
PACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEC R)	HT(BTU/LBM)	RS(FT)	FAM/HT			
5.10	7.8432E C6	7.3520E C6	3.000	2035.7	514.21	1.0000	1.000			
CH-AN	T/C	IN(DEC M)	IN(DEC R)	C(LM/CP2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(C.907)	ST(O.874)	TIME(SEC)
1	1	307.4	553.2	0.028	0.023	11.011	5.702	9.9532E-06	1.0487E-05	0.485
2	2	308.5	554.0	0.100	0.088	10.991	9.664	3.8722E-05	4.0801E-05	0.625
3	3	309.7	557.5	0.321	0.293	10.979	9.674	1.2495E-04	1.3166E-04	0.164
4	4	310.2	558.6	0.329	0.290	10.972	9.868	1.2806E-04	1.3495E-04	-0.310
5	5	310.4	558.7	0.362	0.319	10.971	9.667	1.4092E-04	1.4830E-04	-1.001
6	6	310.5	559.7	0.373	0.329	10.963	9.860	1.4555E-04	1.5339E-04	-1.157
7	7	310.8	559.5	0.471	0.415	10.965	9.661	1.8350E-04	1.9338E-04	-0.710
8	8	311.2	560.4	0.566	0.499	10.958	9.656	2.2099E-04	2.3289E-04	-0.115
9	9	311.3	560.3	0.528	0.466	10.959	9.656	2.0619E-04	2.1730E-04	-0.114
10	10	310.7	559.3	0.469	0.413	10.966	5.663	1.8270E-04	1.9254E-04	-0.152
11	11	310.7	559.3	0.473	0.417	10.966	9.662	1.8459E-04	1.9452E-04	-0.241
12	12	310.8	559.4	0.444	0.391	10.965	9.662	1.7307E-04	1.8239E-04	-0.248
13	13	309.5	557.9	0.516	0.454	10.978	9.673	2.0080E-04	2.1160E-04	-0.123
14	14	309.7	557.4	0.486	0.429	10.980	9.675	1.8937E-04	1.9955E-04	-0.116
15	15	309.2	556.7	0.533	0.469	10.985	9.680	2.0724E-04	2.1840E-04	-0.101
16	16	306.4	551.4	-0.002	-0.002	11.024	5.714	-8.3835E-07	-8.8132E-07	5.281
17	17	306.4	551.5	-0.004	-0.004	11.024	9.714	-1.6768E-06	-1.7665E-06	3.477
18	18	307.8	554.0	0.013	0.012	11.005	9.697	5.1197E-06	5.3942E-06	-0.083
19	19	308.4	555.0	0.075	0.066	10.998	9.690	2.9089E-05	3.0650E-05	0.583
20	20	309.0	556.2	0.263	0.232	10.989	9.683	1.0231E-04	1.0781E-04	0.110

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1145E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 REVE/ETER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 2.5621E C6 2.3428E C6 0.914 8.17 1133.8 1.1991E C6 0.3048 1.000
 MACH 5.10 REVE/ETER REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAW/HT RUN NO. 55
 7.8052E C6 2.2428E C6 3.000 120.05 2040.9 515.65 1.0000 1.000

CHAN	T/C	HW/FT	Q/GS	F/P-S11.CC0)	H/HS(0.907)	H/HS(0.874)	CH&N	T/C	HW/HT	Q/GS	H/HS(1.000)	H/HS(C.907)	H/HS(0.874)
21	21	C.255	C.C456	C.0456	0.0521	0.0549	39	39	0.259	0.0404	C.C404	C.0462	0.0487
22	22	C.261	C.C480	C.0480	0.0549	0.0579	40	40	0.260	0.0402	0.0402	0.0460	0.0484
23	23	C.261	C.C380	0.0380	0.0435	0.0458	41	41	0.260	0.0514	0.0514	0.0588	0.0620
24	24	C.260	C.C257	0.0257	0.0340	0.0358	42	42	0.261	0.0530	0.0530	0.0629	0.0662
25	25	C.260	C.C181	0.0181	0.0207	0.0218	43	43	0.261	0.0527	0.0527	0.0603	0.0635
26	26	C.255	C.C051	0.0051	0.0058	0.0061	44	44	0.261	0.0483	0.0483	0.0592	0.0582
27	27	C.258	C.C025	0.0025	0.0029	0.0030	45	45	0.260	0.0448	0.0448	0.0512	0.0540
28	28	C.258	C.C014	0.0014	0.0016	0.0017	46	46	0.260	0.0439	0.0439	0.0503	0.0530
29	29	C.257	C.C008	0.0008	0.0009	0.0009	47	47	0.260	0.0481	0.0481	0.0550	0.0580
30	30	C.256	C.C002	-0.0002	-0.0003	-0.0003	48	48	0.259	0.0456	0.0456	0.0521	0.0549
31	31	C.256	C.C009	-0.0009	-0.0011	-0.0011	49	49	0.259	0.0453	0.0453	0.0518	0.0546
32	32	C.255	-C.C055	-0.0059	-0.0068	-0.0071	50	50	0.259	0.0464	0.0464	0.0531	0.0559
33	33	C.257	-C.C001	-0.0001	-0.0001	-C.0001	51	56	0.256	-0.0014	-0.0014	-0.0016	-0.0017
34	34	C.256	C.C002	0.0002	0.0003	0.0003	52	57	0.258	-0.0008	-0.0008	-C.0009	-0.0010
35	35	C.258	C.C011	0.0011	0.0013	0.0013	53	58	0.258	0.0015	0.0015	0.0017	0.0018
36	36	0.258	C.C026	0.0026	0.0030	0.0032	54	59	0.260	0.0098	0.0098	0.0111	0.0116
37	37	C.255	C.C086	0.0086	0.0099	0.0104	55	60	0.260	-0.0311	C.0311	0.0356	0.0375
38	38	C.260	C.C302	C.C302	0.0345	0.0364							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 PACF REPMETER REL LENGTH(PETER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAW/HT TEST NC. 158
 5.10 2.5621E C6 2.3428E C6 0.914 8.17 1133.8 1.1991E C6 C.3048 1.000 RUN NC. 55
 PACF 4E/FT REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAW/HT
 5.10 7.8653E C5 2.3428E C6 3.000 120.05 2040.9 515.65 1.0000 1.000

CHAN	TAC	TIME(K)	TIME(R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(U.507)	ST(10.874)	TIME(SEC)
21	309.8	557.6	557.6	C.502	C.443	11.020	9.715	1.9524E-04	2.0572E-04	-0.069
22	312.0	561.6	561.6	C.528	0.465	10.990	9.684	2.0575E-04	2.1683E-04	0.020
23	311.2	560.4	560.4	0.418	0.368	10.999	9.692	1.6285E-04	1.7161E-04	-0.135
24	311.0	559.7	559.7	C.327	0.288	11.004	9.696	1.2737E-04	1.3422E-04	0.082
25	309.4	558.6	558.6	0.159	0.175	11.012	9.703	7.7941E-05	8.1497E-05	0.367
26	309.7	557.5	557.5	0.056	0.049	11.021	9.711	2.1722E-05	2.2888E-05	-0.119
27	309.2	555.4	555.4	C.029	0.024	11.036	9.724	1.0714E-05	1.1239E-05	-0.657
28	307.7	553.9	553.9	0.016	0.014	11.048	9.734	6.0865E-06	6.4124E-06	-0.579
29	306.6	551.9	551.9	C.008	C.007	11.062	9.748	3.2669E-06	3.4416E-06	0.104
30	305.8	550.5	550.5	-0.003	-0.002	11.073	9.757	-1.0098E-06	-1.0638E-06	0.468
31	305.8	550.4	550.4	-0.010	-0.009	11.073	9.757	-3.9449E-06	-4.1556E-06	0.319
32	306.7	551.1	551.1	-0.066	-0.058	11.061	9.746	-2.5381E-05	-2.6739E-05	2.019
33	306.7	552.1	552.1	-0.001	-0.001	11.061	9.746	-2.7161E-07	-2.8614E-07	8.677
34	307.4	553.4	553.4	0.003	0.002	11.051	9.738	1.0598E-06	1.1166E-06	-3.346
35	307.7	553.9	553.9	C.012	C.011	11.047	9.734	4.7555E-06	5.0523E-06	-0.306
36	308.4	555.5	555.5	C.029	0.025	11.036	9.724	1.1202E-05	1.1802E-05	0.313
37	309.2	556.8	556.8	0.095	0.084	11.026	9.716	3.7020E-05	3.8988E-05	0.494
38	310.0	558.0	558.0	C.333	0.293	11.018	9.708	1.2926E-04	1.3621E-04	0.271
39	309.5	557.0	557.0	0.462	C.393	11.024	9.714	1.7315E-04	1.8245E-04	-0.154
40	310.5	558.6	558.6	0.442	0.390	11.006	9.697	1.7208E-04	1.8133E-04	-0.424
41	310.6	559.0	559.0	0.566	0.499	11.010	9.701	2.2036E-04	2.3221E-04	-0.383
42	311.7	561.0	561.0	C.684	0.532	10.993	9.688	2.3539E-04	2.4806E-04	-0.245
43	312.0	561.5	561.5	0.579	0.510	10.991	9.685	2.2571E-04	2.3786E-04	0.020
44	311.7	561.0	561.0	0.531	0.468	10.995	9.688	2.0673E-04	2.1786E-04	0.002
45	310.6	559.2	559.2	C.493	0.434	11.009	9.700	1.9175E-04	2.0205E-04	-0.039
46	310.2	558.6	558.6	C.484	C.426	11.013	9.704	1.8823E-04	1.9835E-04	-0.026
47	310.4	558.7	558.7	0.530	0.467	11.012	9.703	2.0606E-04	2.1713E-04	-0.009
48	309.7	557.4	557.4	C.502	0.442	11.022	9.712	1.9511E-04	2.0558E-04	-0.012
49	309.8	557.6	557.6	C.499	C.440	11.020	9.710	1.9400E-04	2.0442E-04	-0.016
50	309.2	556.5	556.5	C.512	0.451	11.028	9.717	1.9870E-04	2.0937E-04	-0.026
51	306.1	550.9	550.9	-0.015	-0.014	11.069	9.754	-5.9262E-06	-6.2428E-06	0.948
52	307.5	553.4	553.4	-0.009	-0.008	11.051	9.737	-3.4587E-06	-3.6860E-06	1.521
53	307.9	554.2	554.2	C.016	C.014	11.045	9.732	6.2848E-06	6.6252E-06	0.270
54	310.2	558.3	558.3	0.108	0.095	11.013	9.705	4.1813E-05	4.4060E-05	0.540
55	310.6	558.1	558.1	0.343	0.302	11.009	9.701	1.3336E-04	1.4053E-04	0.230

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1104E-01 (SLUGS/FT2-SEC)

PRCBE AC. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.4236E C6 2.2527E C6 3.914 8.17 1160.4 1.2300E C6 0.3048 1.000 1.000 1.000
 MACH 5.10 7.5091E C6 2.2527E C6 3.000 120.05 2086.7 528.94 1.0000 1.0000 1.0000

CHAN	T/C	TN (DEG K)	TN (DEG R)	CW/CM2	CL(TU/FT2-SEC)	CS(W/CM2)	CS(BTW/FT2-SEC)	SI(C.907)	SI(C.874)	TIME(SEC)
56	71	305.4	551.5	-0.004	-0.003	11.445	10.085	-1.3739E-06	1.4466E-06	-1.939
57	72	306.7	552.0	-0.013	-0.012	11.442	10.082	-5.0461E-06	-5.3132E-06	0.703
58	73	307.1	552.8	-0.007	-0.006	11.436	10.076	-2.5445E-06	-2.6792E-06	0.790
59	74	307.6	554.0	-0.003	-0.002	11.427	10.069	-1.0263E-06	-1.0807E-06	1.384
60	75	308.3	555.0	-0.006	-0.005	11.419	10.062	-2.1759E-06	-2.2913E-06	3.239
61	76	308.1	556.3	-0.006	-0.005	11.410	10.053	-2.1560E-06	-2.2704E-06	4.076
62	77	308.4	556.8	-0.001	-0.001	11.406	10.050	-4.7948E-07	-5.0494E-07	14.825
63	78	309.5	557.8	0.015	0.013	11.399	10.044	5.8355E-06	5.1456E-06	-0.497
64	79	310.7	559.2	0.058	0.051	11.388	10.035	2.2350E-05	2.3433E-05	0.169
65	80	311.0	559.8	0.302	0.266	11.384	10.031	1.1537E-04	1.2151E-04	-0.180
66	81	311.6	561.2	0.397	0.350	11.373	10.021	1.5213E-04	1.6024E-04	-0.857
67	82	312.6	562.6	0.547	0.482	11.363	10.012	2.0957E-04	2.2075E-04	-0.524
68	83	313.5	564.2	0.576	0.508	11.351	10.002	2.2102E-04	2.3282E-04	-0.094
69	84	314.0	565.1	0.539	0.475	11.344	9.996	2.0672E-04	2.1766E-04	-0.107
70	85	315.1	567.2	0.526	0.463	11.329	9.983	2.0213E-04	2.1295E-04	-0.135
71	86	315.4	567.8	0.492	0.433	11.325	9.979	1.8905E-04	1.9916E-04	-0.131
72	87	316.0	568.8	0.455	0.436	11.317	9.972	1.9032E-04	2.0052E-04	-0.152
73	88	317.7	571.8	0.465	0.410	11.295	9.952	1.7935E-04	1.8898E-04	-0.141
74	89	318.6	573.8	0.509	0.449	11.282	9.941	1.9661E-04	2.0718E-04	-0.183
75	90	317.3	571.2	0.499	0.439	11.300	9.957	1.9191E-04	2.0221E-04	-0.248

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0738E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

311
 PRELIMINARY DATA ***
 TEST VC. 158
 RUN NO. 56

CONSTANT SET 22/
 HAW/HT 1.000
 H/HS(1.000) H/HS(0.907) H/HS(0.874)

RESEARCH CENTER MUFFETT FIELD CALIF. ***
 RS(METER) 0.3048
 RS(FT) 1.0000

TI(DEC K) 1101.5
 TI(JOULE/KG) 1.1622E C6
 TI(DEC R) 1983.4
 TI(BTL/LBM) 459.76

PT(ATM) 4.78
 PT(PSI) 70.25
 H/HS(1.000) H/HS(0.907) H/HS(0.874)

REL LENGTH(METER) 0.914
 REL LENGTH(FT) 3.000
 REL 1.4383E C6
 REL 4.7551E C6

CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CFAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.261	0.0581	0.0581	0.0581	0.0581	11	11	0.263	0.0581	0.0581	0.0581	0.0701
2	2	0.262	0.0577	0.0577	0.0577	0.0577	12	12	0.263	0.0577	0.0577	0.0577	0.0696
3	3	0.262	0.0580	0.0580	0.0580	0.0580	13	13	0.263	0.0580	0.0580	0.0580	0.0699
4	4	0.262	0.0551	0.0551	0.0551	0.0551	14	14	0.263	0.0551	0.0551	0.0551	0.0664
5	5	0.262	0.0584	0.0584	0.0584	0.0584	15	15	0.263	0.0584	0.0584	0.0584	0.0705
6	6	0.263	-0.0002	-0.0002	-0.0002	-0.0002	16	16	0.261	-0.0002	-0.0002	-0.0002	-0.0002
7	7	0.263	-0.0001	-0.0001	-0.0001	-0.0001	17	17	0.261	-0.0001	-0.0001	-0.0001	-0.0001
8	8	0.262	0.0009	0.0009	0.0009	0.0009	18	18	0.261	0.0009	0.0009	0.0009	0.0010
9	9	0.262	0.0050	0.0050	0.0050	0.0050	19	19	0.262	0.0050	0.0050	0.0050	0.0061
10	10	0.262	0.0237	0.0237	0.0237	0.0237	20	20	0.262	0.0237	0.0237	0.0237	0.0286

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 27METER REL LENGTH(METER) PT(ATM) TT(DEG K) FT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 1.5732E C6 1.4385E C6 0.914 4.78 1101.9 1.1622E C6 0.3048 1.000 RUN NO. 56
 MACH RE/FT REL LENGTH(FT) PT(PSSI) TT(DEC R) FT(LB/IN) RS(FT) HAM/HT
 5.10 4.7531E C5 1.4385E C6 3.000 70.25 983.4 499.76 1.0000 1.000

CHAN	TAC	TM(DEC K)	TM(DEC R)	GM(CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	SI(C.907)	SI(0.874)	TIME(SEC)
1	1	302.3	544.2	0.013	0.011	8.158	7.187	8.7607E-06	9.2325E-06	1.051
2	2	302.5	545.2	0.051	0.045	8.150	7.182	3.4192E-05	3.6035E-05	0.801
3	3	303.3	545.9	0.227	0.200	8.147	7.179	1.5305E-04	1.6131E-04	0.537
4	4	303.5	546.2	0.270	0.238	8.145	7.177	1.8215E-04	1.9201E-04	0.269
5	5	303.6	546.4	0.345	0.304	8.144	7.176	2.3275E-04	2.4531E-04	-0.134
6	6	303.8	546.8	0.370	0.326	8.141	7.174	2.4911E-04	2.6255E-04	-0.277
7	7	303.5	547.1	0.445	0.392	8.140	7.172	3.0028E-04	3.1649E-04	-0.109
8	8	304.3	547.7	0.509	0.448	8.137	7.169	3.4328E-04	3.6182E-04	0.136
9	9	304.4	548.0	0.454	0.435	8.135	7.168	3.3301E-04	3.5100E-04	0.148
10	10	304.3	547.7	0.454	0.400	8.136	7.169	3.0536E-04	3.2290E-04	0.120
11	11	304.2	547.7	0.473	0.417	8.137	7.169	3.1881E-04	3.3602E-04	0.099
12	12	304.2	547.6	0.470	0.414	8.137	7.170	3.1673E-04	3.3384E-04	0.095
13	13	304.0	547.1	0.472	0.416	8.140	7.172	3.1806E-04	3.3523E-04	0.134
14	14	303.5	547.0	0.448	0.395	8.140	7.173	3.0226E-04	3.1857E-04	0.134
15	15	304.0	547.2	0.476	0.419	8.140	7.172	3.2661E-04	3.3791E-04	0.138
16	16	302.0	543.7	-0.001	-0.001	8.159	7.189	-1.0199E-06	-1.0748E-06	1.308
17	17	302.0	543.7	-0.001	-0.001	8.159	7.190	-5.9181E-07	-6.2367E-07	0.929
18	18	302.6	544.6	0.007	0.006	8.154	7.185	4.7447E-06	5.0003E-06	0.749
19	19	302.5	545.3	0.041	0.036	8.150	7.181	2.7541E-05	2.9026E-05	0.841
20	20	303.2	545.7	0.153	0.170	8.148	7.179	1.3025E-04	1.3727E-04	0.522

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2618E-01 (SLUGS/FT2-SEC)

PRCBE NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(CEG K)	HT(JULLE/KG)	RS(METER)	HAW/HT	TEST NO.	
5.10	1.5505E C6	1.4547E C6	C.914	109.6	1.1527E C6	0.3048	1.000	158	
PACH	RE/FT	REL LENGTH(FT)	PT(PST)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.	
5.10	4.8451E C6	1.4547E C6	3.000	1970.3	496.13	1.0000	1.000	56	
CFAN	T/C	FW/FT	W/GS	F/HS(1.000)	H/HS(0.907)	H/FS(0.874)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	C.265	C.0516	C.0516	C.0591	0.0623	C.0345	0.0399	0.0421
22	22	C.265	C.0552	C.0552	C.0622	0.0666	0.0371	C.0524	0.0447
23	23	C.265	C.0407	C.0407	C.0465	0.0491	C.0470	C.0538	0.0567
24	24	C.265	C.0305	C.0305	C.0349	0.0368	0.0513	0.0588	0.0620
25	25	C.264	C.0144	C.0144	C.0164	0.0173	0.0552	0.0632	0.0666
26	26	C.264	C.0032	C.0032	C.0039	0.0044	0.0526	C.0603	0.0635
27	27	C.274	C.0009	C.0011	C.0011	0.0011	C.0502	C.0575	0.0606
28	28	C.263	C.0004	C.0004	C.0005	0.0005	0.0471	0.0540	0.0569
29	29	C.263	-C.0001	-C.0001	-C.0002	-0.0002	0.0517	0.0592	0.0624
30	30	C.263	-C.0008	-C.0008	-0.0009	-0.0009	0.0588	0.0589	0.0589
31	31	C.263	-C.0006	-C.0006	-C.0007	-0.0008	C.0482	0.0552	0.0582
32	32	C.263	-C.0009	-C.0009	-C.0010	-0.0011	C.0479	0.0548	0.0578
33	33	C.263	-C.0003	-C.0003	-0.0004	-0.0004	-0.0002	-0.0002	-0.0002
34	34	C.263	C.0003	C.0003	C.0003	0.0003	-0.0002	-0.0002	-0.0003
35	35	C.263	C.0004	C.0004	C.0005	0.0005	-0.0005	-0.0005	-0.0006
36	36	C.264	C.0013	C.0013	C.0016	0.0016	C.0070	C.0081	0.0085
37	37	C.264	C.0062	C.0062	0.0074	0.0074	0.0266	0.0298	0.0314
38	38	C.264	C.0249	C.0249	C.0300	0.0300	0.0265	0.0260	0.0260

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH 1.5509E C6 1.4547E C6 C.514 4.78 1094.6 1.1537E C6 0.3048 1.000 TEST NO. 158
 PACH 4.8451E C5 1.4547E C6 3.000 70.25 1970.3 496.13 1.0000 1.000 RUN NO. 56

CPAN	T/C	Y (DEG K)	TN (DEG R)	C (W/CM2)	Q (BTU/FT2-SEC)	CS (W/CM2)	LS (BTU/FT2-SEC)	ST (C.907)	ST (U.874)	TIME (SEC)
21	21	303.8	546.9	0.416	0.366	8.041	7.103	2.8183E-04	2.9709E-04	-0.098
22	22	304.6	548.3	0.444	0.396	8.053	7.096	3.0144E-04	3.1778E-04	0.002
23	23	304.0	547.3	0.328	0.289	8.059	7.101	2.2206E-04	2.3410E-04	-0.239
24	24	304.0	547.2	0.246	0.217	8.059	7.101	1.8674E-04	1.7577E-04	-0.089
25	25	303.5	546.2	0.116	0.102	8.065	7.106	7.8419E-05	8.2662E-05	0.355
26	26	303.2	545.8	0.026	0.025	8.067	7.108	1.7502E-05	1.8449E-05	0.361
27	27	302.8	545.0	0.007	0.007	8.072	7.112	5.0535E-06	5.3267E-06	0.286
28	28	302.5	544.5	0.004	0.003	8.074	7.115	2.3748E-06	2.5031E-06	0.412
29	29	302.2	544.1	-0.001	-0.001	8.077	7.117	-7.1596E-07	-7.5464E-07	1.692
30	30	302.0	543.6	-0.005	-0.005	8.080	7.119	-4.1829E-06	-4.4088E-06	1.172
31	31	302.0	543.6	-0.005	-0.005	8.080	7.119	-3.5156E-06	-3.7055E-06	0.820
32	32	302.1	543.7	-0.007	-0.007	8.079	7.119	-4.9319E-06	-5.1983E-06	0.784
33	33	302.2	543.5	-0.002	-0.002	8.078	7.118	-1.6842E-06	-1.7752E-06	1.150
34	34	302.3	544.1	0.002	0.002	8.077	7.117	1.4113E-06	1.4076E-06	0.168
35	35	302.3	544.2	0.003	0.003	8.076	7.116	2.3757E-06	2.4638E-06	-0.041
36	36	302.7	545.9	0.011	0.009	8.072	7.113	7.1701E-06	7.5683E-06	0.358
37	37	303.0	545.3	0.050	0.044	8.070	7.111	3.3720E-05	3.5543E-05	0.606
38	38	303.2	545.9	0.201	0.177	8.066	7.108	1.2587E-04	1.4323E-04	0.441
39	39	303.3	546.0	0.281	0.248	8.068	7.108	1.9039E-04	2.0069E-04	-0.011
40	40	303.7	546.6	0.259	0.263	8.063	7.104	2.0254E-04	2.1350E-04	-0.251
41	41	304.2	547.5	0.379	0.334	8.058	7.100	2.5687E-04	2.7078E-04	-0.391
42	42	304.8	548.2	0.414	0.364	8.052	7.096	2.8051E-04	2.9571E-04	-0.284
43	43	304.5	548.8	0.444	0.391	8.051	7.094	3.0139E-04	3.1773E-04	-0.011
44	44	304.5	548.7	0.424	0.373	8.051	7.094	2.8750E-04	3.0309E-04	-0.012
45	45	304.2	548.1	0.404	0.356	8.054	7.097	2.7414E-04	2.8900E-04	-0.036
46	46	304.7	548.4	0.380	0.335	8.052	7.096	2.5755E-04	2.7153E-04	-0.073
47	47	304.7	548.5	0.418	0.367	8.052	7.095	2.8257E-04	2.9788E-04	-0.034
48	48	304.4	548.0	0.393	0.346	8.053	7.097	2.6641E-04	2.8084E-04	-0.042
49	49	304.4	548.0	0.388	0.342	8.055	7.098	2.6338E-04	2.7766E-04	-0.045
50	50	304.1	547.4	0.368	0.340	8.058	7.101	2.6168E-04	2.7585E-04	-0.067
51	51	302.5	544.4	-0.001	-0.001	8.075	7.115	-9.4531E-07	-9.9640E-07	-0.780
52	52	302.6	544.8	-0.002	-0.002	8.073	7.114	-1.1915E-06	-1.2559E-06	-0.122
53	53	302.6	544.7	-0.004	-0.004	8.073	7.114	-2.8206E-06	-2.9731E-06	1.645
54	54	303.6	546.5	0.007	0.050	8.083	7.105	3.8418E-05	4.0495E-05	0.660
55	55	303.5	547.0	0.210	0.185	8.060	7.102	1.4229E-04	1.4699E-04	0.386

FREE-STREAM DENSITY-VELOCITY PRODUCT * 1.2679E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PACH		REL		PT(ATM)		TT(DEC K)		FT(JULLE/KG)		RST(METER)		PAM/HT		TEST NO.	
5.10	1.4258E C6	0.914	4.78	1107.7	1.1689E C6	0.3048	1.000	1.000	1.000	0.3048	1.000	1.000	158	56	
PACH		REL		PT(PST)		TT(DEC R)		FT(BTU/LBM)		RS(FT)		PAM/HT		RUN NO.	
5.10	4.7827E C5	1.4258E C6	3.300	70.25	1993.6	502.66	1.000	1.000	1.000	0.3048	1.000	1.000	158	56	
CHAN	T/C	G/GS	H/HS(1.000)	F/HS(0.907)	F/HS(0.874)	CHAN	T/C	HW/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)			
56	71	C.260	-C.0004	-C.0005	-C.0005	66	81	C.262	0.0443	0.0443	0.0507	0.0534			
57	72	C.260	-C.0000	-C.0000	-C.0000	67	82	C.263	0.0583	0.0583	0.0668	0.0704			
58	73	C.260	-C.0001	-C.0001	-C.0001	68	83	C.263	0.0611	0.0611	0.0700	0.0737			
59	74	C.260	-C.0003	-C.0004	-C.0004	69	84	C.264	0.0569	0.0569	0.0651	0.0686			
60	75	C.260	C.0003	C.0004	C.0004	70	85	C.264	0.0564	0.0564	0.0645	0.0680			
61	76	C.261	C.0005	C.0006	C.0006	71	86	C.264	0.0557	0.0557	0.0638	0.0673			
62	77	C.261	C.0002	C.0002	C.0002	72	87	C.264	0.0549	0.0549	0.0628	0.0662			
63	78	C.261	C.0012	C.0013	C.0014	73	88	C.265	0.0546	0.0546	0.0625	0.0659			
64	79	C.262	C.0045	C.0056	C.0059	74	89	C.266	0.0594	0.0594	0.0680	0.0717			
65	80	C.262	C.0284	C.0324	C.0342	75	90	C.265	0.0574	0.0574	0.0658	0.0693			

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 36
 PACH RE/METER REL LENGTH(METER) FT(ATM) TT(DEC K) PT(JOULE/KG) RS(METER) HAM/HT
 5-10 1.5538 C6 1.4258E C6 0.914 4.78 1107.7 1.1689E C6 C.3048 1.000
 PACH RE/FT REL LENGTH(FT) PI(PSI) TT(DEC R) HT(LB/LBM) RS(FT) HAM/HT
 5-10 4.7327E C6 1.4258E C6 3.000 70.25 1993.5 502.66 1.0000 1.000

CHAN	T/C	Ta(DEC K)	Ta(DEC R)	Q1(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.874)	TIME(SEC)
56	71	322.4	546.3	-0.003	-0.003	8.220	-2.2128E-06	-2.3317E-06	-0.567
57	72	302.4	544.4	-0.000	-0.000	8.219	-7.7357E-10	-8.1514E-10	*****
58	73	302.6	544.7	-0.001	-0.001	8.218	-4.7166E-07	-4.9701E-07	-2.635
59	74	322.7	545.9	-0.003	-0.002	8.216	-1.7416E-06	-1.8332E-06	0.326
60	75	303.0	545.5	0.003	0.002	8.213	1.8867E-06	1.9881E-06	1.397
61	76	303.3	545.5	0.004	0.004	8.211	2.9512E-06	3.1100E-06	1.011
62	77	303.4	546.2	0.001	0.001	8.209	9.2128E-07	9.7085E-07	-0.889
63	78	303.7	546.6	0.010	0.008	8.207	6.4453E-06	6.7922E-06	0.366
64	79	304.4	547.6	0.040	0.035	8.200	2.6919E-05	2.8369E-05	0.610
65	80	304.3	548.2	0.232	0.205	8.198	1.5613E-04	1.6457E-04	0.293
66	81	305.2	549.4	0.363	0.320	8.191	2.4409E-04	2.5726E-04	-0.203
67	82	305.7	550.3	0.478	0.421	8.186	3.2136E-04	3.3670E-04	-0.207
68	83	306.5	551.7	0.500	0.440	8.176	3.3670E-04	3.5490E-04	0.005
69	84	306.8	552.2	0.465	0.410	8.175	3.1318E-04	3.3011E-04	-0.045
70	85	307.3	553.1	0.461	0.406	8.170	3.1062E-04	3.2743E-04	-0.068
71	86	307.4	553.3	0.455	0.401	8.169	3.0709E-04	3.2370E-04	-0.020
72	87	307.6	554.1	0.448	0.395	8.164	3.0242E-04	3.1879E-04	-0.070
73	88	308.5	555.3	0.446	0.363	8.157	3.0093E-04	3.1724E-04	-0.010
74	89	309.3	556.7	0.484	0.427	8.150	3.2724E-04	3.4500E-04	-0.009
75	90	308.8	556.8	0.468	0.413	8.155	3.1647E-04	3.3363E-04	-0.033

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.2567E-01 (SLUGS/FT2-SECT)

PROBE NO. = 3

*** PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF.

MACH	REL	C/S	F/W/HT	C/V/S	H/P/S(I.C.C.O)	H/P/S(I.O.S07)	H/P/S(I.O.E74)	CHAN	T/C	H/W/HT	Q/V/S	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
5.10	2.6051E C6	2.3858E C6	7.9516E C5	3.000	118.97	208.83	506.63	11	11	0.261	0.0524	0.0524	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	12	12	0.261	0.0549	0.0628	0.0588	0.0620
	REL	REL	REL	REL	REL	REL	REL	13	13	0.261	0.0514	0.0514	0.0586	0.0639
	REL	REL	REL	REL	REL	REL	REL	14	14	0.261	0.0486	0.0556	0.0606	0.0639
	REL	REL	REL	REL	REL	REL	REL	15	15	0.261	0.0530	0.0530	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	16	16	0.258	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	17	17	0.258	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	18	18	0.259	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	19	19	0.259	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	20	20	0.260	0.0600	0.0600	0.0600	0.0632

MACH	REL	C/S	F/W/HT	C/V/S	H/P/S(I.C.C.O)	H/P/S(I.O.S07)	H/P/S(I.O.E74)	CHAN	T/C	H/W/HT	Q/V/S	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
5.10	2.6051E C6	2.3858E C6	7.9516E C5	3.000	118.97	208.83	506.63	11	11	0.261	0.0524	0.0524	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	12	12	0.261	0.0549	0.0628	0.0588	0.0620
	REL	REL	REL	REL	REL	REL	REL	13	13	0.261	0.0514	0.0514	0.0586	0.0639
	REL	REL	REL	REL	REL	REL	REL	14	14	0.261	0.0486	0.0556	0.0606	0.0639
	REL	REL	REL	REL	REL	REL	REL	15	15	0.261	0.0530	0.0530	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	16	16	0.258	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	17	17	0.258	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	18	18	0.259	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	19	19	0.259	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	20	20	0.260	0.0600	0.0600	0.0600	0.0632

MACH	REL	C/S	F/W/HT	C/V/S	H/P/S(I.C.C.O)	H/P/S(I.O.S07)	H/P/S(I.O.E74)	CHAN	T/C	H/W/HT	Q/V/S	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
5.10	2.6051E C6	2.3858E C6	7.9516E C5	3.000	118.97	208.83	506.63	11	11	0.261	0.0524	0.0524	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	12	12	0.261	0.0549	0.0628	0.0588	0.0620
	REL	REL	REL	REL	REL	REL	REL	13	13	0.261	0.0514	0.0514	0.0586	0.0639
	REL	REL	REL	REL	REL	REL	REL	14	14	0.261	0.0486	0.0556	0.0606	0.0639
	REL	REL	REL	REL	REL	REL	REL	15	15	0.261	0.0530	0.0530	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	16	16	0.258	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	17	17	0.258	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	18	18	0.259	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	19	19	0.259	0.0600	0.0600	0.0600	0.0632
	REL	REL	REL	REL	REL	REL	REL	20	20	0.260	0.0600	0.0600	0.0600	0.0632

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NC. 158
 MACH RE/PETER REL LENGTH(METER) PT(ATM) TT(CEG K) FT(JCULE/KG) RS(METER) FAW/HT RUN NO. 57
 5.10 2.60918 C6 2.3858E C6 8.09 1115.7 1.1782E C6 0.3048 1.000
 MACH RE/FT REL LENGTH(FT) FT(PSI) TT(CEG K) FT(8TU/LBM) RS(FT) HAW/HT
 5.10 7.9522E C6 2.3858E C6 118.97 2008.2 506.63 1.0000 1.000

CHAN	T/C	TW(DEC K)	TW(DEC R)	C(W/CP2)	C(BTU/FT2-SEC)	C(S(W/CP2)	C(S(8TU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	303.6	546.4	C.019	C.017	10.795	5.512	7.3889E-06	7.7859E-06	C.808
2	2	304.5	548.0	C.029	C.061	10.783	5.502	2.7355E-05	2.8867E-05	C.749
3	3	305.0	549.1	0.295	C.260	10.776	5.495	1.1657E-04	1.2283E-04	C.566
4	4	305.4	549.6	0.370	C.290	10.772	5.491	1.3013E-04	1.3712E-04	C.114
5	5	305.5	550.0	0.378	C.333	10.769	9.489	1.4947E-04	1.5750E-04	-C.523
6	6	305.5	550.6	0.390	0.349	10.765	9.485	1.5640E-04	1.6481E-04	-C.756
7	7	306.1	551.0	C.483	C.426	10.762	9.483	1.9103E-04	2.0131E-04	-C.533
8	8	306.6	551.8	C.613	0.540	10.756	9.477	2.4223E-04	2.5238E-04	-C.058
9	9	306.8	552.2	C.597	C.526	10.753	9.475	2.3625E-04	2.4898E-04	-C.034
10	10	306.8	551.9	0.579	C.475	10.755	5.477	2.1258E-04	2.2445E-04	-C.080
11	11	306.6	551.5	C.564	0.497	10.755	9.477	2.2297E-04	2.3498E-04	-C.116
12	12	306.5	551.7	0.590	0.520	10.757	9.478	2.3347E-04	2.4604E-04	-C.025
13	13	306.1	550.9	C.593	C.488	10.762	5.483	2.1870E-04	2.3047E-04	-C.103
14	14	306.0	550.6	0.523	C.461	10.763	9.484	2.0672E-04	2.1784E-04	-C.098
15	15	306.1	551.0	0.570	0.503	10.762	9.482	2.2544E-04	2.3758E-04	-C.067
16	16	303.2	545.7	0.000	0.000	10.801	9.517	8.5492E-08	9.0075E-08	11.967
17	17	303.2	545.7	0.000	C.000	10.801	9.517	2.2042E-08	2.3224E-08	15.576
18	18	303.5	547.0	0.009	0.008	10.791	9.508	3.5877E-06	3.7803E-06	0.474
19	19	304.4	547.5	0.054	0.047	10.784	9.507	2.1100E-05	2.2233E-05	0.772
20	20	304.8	548.6	0.253	0.223	10.779	9.496	9.9850E-05	1.0522E-04	0.464

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.8170E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH		RE/METER		REL LENGTH(METER)		PT(ATM)		TT(DEC K)		RS(METER)		MAW/NT		TEST NO.	
5.10		2.3724E C6		C.914		8.09		1125.2		0.3048		1.000		158	
MACH		REF/FT		REL LENGTH(FT)		PT(PST)		TT(DEC R)		RS(FT)		MAW/HT		RUN NC.	
5.10		7.845E C5		2.3322E C6		3.500		118.97		511.33		1.0000		57	
CHAN	T/C	FW/FT	Q/GS	F/P(SI.CCC)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	FW/HT	Q/GS	H/MS(1.000)	H/MS(G.907)	H/MS(0.874)		
21	21	C.258	C.0474	C.0542	0.0571	0.0571	39	39	C.258	0.0327	0.0327	0.0374	0.0394		
22	22	C.259	C.0507	0.0580	0.0611	0.0611	40	40	0.258	0.0350	0.0350	0.0400	0.0422		
23	23	C.259	C.0374	0.0427	0.0450	0.0450	41	41	0.259	0.0424	C.0424	0.0485	0.0511		
24	24	C.258	C.0283	0.0323	0.0340	0.0340	42	42	C.259	0.0468	0.0468	0.0536	0.0564		
25	25	C.258	C.0142	C.0162	0.0171	0.0171	43	43	0.259	0.0514	0.0514	0.0587	0.0619		
26	26	C.257	C.0032	C.0037	C.0039	C.0039	44	44	0.259	C.0479	0.0479	0.0547	0.0577		
27	27	C.257	C.0013	C.0015	C.0015	C.0015	45	45	0.259	C.0449	C.0449	0.0514	0.0541		
28	28	C.257	C.0006	C.0007	0.0007	0.0007	46	46	0.259	0.0432	0.0432	0.0493	0.0520		
29	29	C.256	C.0002	C.0002	0.0002	0.0002	47	47	C.259	0.0473	0.0473	0.0541	0.0570		
30	30	C.256	-0.0004	-0.0003	-0.0003	-0.0003	48	48	0.259	0.0442	0.0442	0.0500	0.0533		
31	31	C.256	-0.0004	-0.0004	-0.0004	-0.0004	49	49	0.259	C.0437	C.0437	0.0500	0.0527		
32	32	C.256	-0.0007	-0.0007	-0.0008	-0.0008	50	50	0.259	0.0437	C.0437	C.0500	0.0527		
33	33	C.256	-0.0005	-0.0005	-0.0006	-0.0006	51	56	C.256	-0.0011	-0.0011	-0.0013	-0.0014		
34	34	C.256	-0.0006	-0.0006	-0.0007	-0.0007	52	57	0.257	-0.0021	-0.0021	-0.0024	-0.0025		
35	35	C.256	-0.0002	-0.0002	-0.0002	-0.0002	53	58	C.257	-0.0004	-0.0004	-0.0004	-0.0004		
36	36	C.257	C.0009	C.0010	0.0010	0.0010	54	59	C.258	0.0071	0.0071	0.0081	0.0086		
37	37	C.257	C.0058	C.0067	0.0067	0.0067	55	60	0.258	0.0255	0.0255	0.0291	0.0307		
38	38	C.258	C.0245	C.0280	0.0280	0.0280									

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MCCREY FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 7.05
 RE/METER 2.5724E C6 2.3522E C6
 REL LENGTH(CM) 0.914
 REL LENGTH(FT) 3.000
 PT(ATM) 118.97
 PT(PSSI) 2025.3
 PS(METER) 1.0000
 HAM/HT 1.300
 TEST NO. 158
 RUN NO. 57

CHAN	1/C	IN(DEC K)	IN(DEC R)	G(W/CM2)	Q(LBTU/FT2-SEC)	CS(W/CM2)	CS(TU/FT2-SEC)	SI(0.907)	SI(0.874)	TIME(SEC)
21	21	305.8	550.5	0.515	0.455	10.859	9.604	2.0268E-04	2.1354E-04	-0.208
22	22	306.5	532.4	0.552	0.487	10.886	5.592	2.1705E-04	2.2870E-04	-0.097
23	23	306.1	531.0	0.407	0.359	10.896	9.601	1.5583E-04	1.6840E-04	-0.333
24	24	305.5	530.6	0.308	0.271	10.895	9.603	1.2022E-04	1.2740E-04	-0.131
25	25	305.3	545.3	0.155	0.137	10.908	9.612	6.0853E-05	6.4112E-05	0.305
26	26	304.8	548.7	0.035	0.031	10.912	5.616	1.3803E-05	1.4532E-05	0.231
27	27	304.2	547.7	0.014	0.012	10.920	5.622	5.4713E-06	5.7839E-06	0.316
28	28	303.5	546.5	0.005	0.006	10.926	9.627	2.4949E-06	2.6171E-06	0.428
29	29	303.5	546.2	0.002	0.002	10.931	5.632	7.4066E-07	7.8023E-07	2.581
30	30	303.2	545.8	0.004	0.004	10.933	5.635	-1.7216E-07	-1.8136E-06	0.153
31	31	303.2	545.7	0.005	0.004	10.935	9.635	-1.8848E-06	-1.9853E-06	-0.424
32	32	303.3	546.0	0.008	0.007	10.933	9.632	-3.0943E-06	-3.2596E-06	-0.345
33	33	303.4	546.2	0.006	0.005	10.931	5.632	-2.5646E-06	-2.3858E-06	0.612
34	34	303.6	546.4	0.007	0.006	10.930	5.631	-2.5563E-06	-2.6529E-06	0.867
35	35	303.6	546.5	0.002	0.002	10.929	9.630	-9.7176E-07	-9.1835E-07	2.391
36	36	304.1	547.5	0.010	0.009	10.922	5.624	3.8537E-06	4.0598E-06	0.055
37	37	304.5	548.2	0.064	0.056	10.917	5.619	2.4553E-05	2.6288E-05	0.542
38	38	305.0	545.0	0.287	0.236	10.910	5.613	1.0486E-04	1.1047E-04	0.393
39	39	305.0	545.1	0.357	0.314	10.910	9.613	1.3590E-04	1.4739E-04	-0.132
40	40	305.6	550.2	0.382	0.336	10.902	5.606	1.4576E-04	1.5778E-04	-0.394
41	41	306.2	551.1	0.482	0.407	10.895	5.600	1.8140E-04	1.9112E-04	-0.592
42	42	306.7	552.1	0.510	0.407	10.888	5.593	2.0043E-04	2.1118E-04	-0.468
43	43	307.1	552.8	0.559	0.493	10.882	5.589	2.1578E-04	2.3158E-04	-0.111
44	44	307.1	552.7	0.521	0.459	10.883	5.590	2.0474E-04	2.1573E-04	-0.175
45	45	306.6	551.8	0.489	0.431	10.890	5.595	1.9221E-04	2.0253E-04	-0.170
46	46	306.8	551.2	0.470	0.414	10.887	5.593	1.8462E-04	1.9453E-04	-0.191
47	47	306.5	550.4	0.515	0.453	10.886	5.592	2.0223E-04	2.1309E-04	-0.170
48	48	306.6	551.2	0.481	0.424	10.890	9.596	1.8513E-04	1.9928E-04	-0.187
49	49	306.6	551.8	0.476	0.420	10.890	9.596	1.8710E-04	1.9714E-04	-0.189
50	50	306.2	551.1	0.477	0.412	10.895	9.600	1.8717E-04	1.9720E-04	-0.209
51	51	306.6	546.1	0.013	0.013	10.930	5.631	-4.9167E-06	-5.1794E-06	0.256
52	52	306.5	547.0	0.023	0.020	10.925	5.626	-8.5281E-06	-9.4053E-06	0.700
53	53	303.7	546.0	0.003	0.003	10.927	9.628	-1.5246E-06	-1.6061E-06	0.203
54	54	305.2	549.4	0.078	0.068	10.908	9.611	3.0484E-05	3.2117E-05	0.559
55	55	305.7	550.2	0.278	0.245	10.902	9.605	1.0893E-04	1.1477E-04	0.345

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1037E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	REL	REL	LENGTH(METER)	PT(LATM)	TT(DEC K)	HT(JULG/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	2.4556E C6	2.2765E C6	0.914	3.09	1147.1	1.2146E C6	0.3048	1.000	158
MACH <th>REL</th> <th>REL</th> <th>LENGTH(FT)</th> <th>PT(PST)</th> <th>TT(DEC R)</th> <th>HT(BTU/LBM)</th> <th>RS(FT)</th> <th>HAW/HT</th> <th>RUN NO.</th>	REL	REL	LENGTH(FT)	PT(PST)	TT(DEC R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	7.9883E C6	2.2765E C6	3.000	118.97	2084.5	522.30	1.0000	1.000	57

CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	71	0.251	-0.0004	-0.0005	0.0363
57	72	0.251	-0.0002	-0.0002	0.0415
58	73	0.252	-0.0006	-0.0008	0.0578
59	74	0.252	-0.0008	-0.0010	0.0547
60	75	0.252	-0.0001	-0.0002	0.0510
61	76	0.252	-0.0002	-0.0002	0.0511
62	77	0.252	-0.0006	-0.0007	0.0476
63	78	0.253	0.0003	0.0003	0.0468
64	79	0.253	0.0041	0.0049	0.0453
65	80	0.254	0.0247	0.0297	0.0504
EC					0.0478

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFERT FIELD CALIF. *** PRELIMINARY DATA ***

PACK	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JULLE/KG)	RS(METER)	HA/HT	TEST NC.
5-10	2.4356E-06	2.2748E-06	0.314	0.09	1147.1	1.2140E-06	0.3048	1.000	158
PACK	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEC R)	HT(TU/LBM)	RS(FT)	HA/HT	RUN NC.
5-10	7.3382E-06	2.2705E-06	3.000	119.97	2064.9	526.30	1.000	1.000	57

CPA	T/C	TM(DEC K)	TM(DEC R)	W(WGM2)	W(FTU/FT2-SEC)	W(SIM/CP2)	W(SI(TU/FT2-SEC)	W(SI(TU/FT2-SEC)	W(SI(TU/FT2-SEC)	TIME(SEC)
56	71	303.9	547.0	-0.004	0.004	11.239	9.903	-1.953E-06	-1.953E-06	-1.973
57	72	303.9	547.0	-0.002	-0.002	11.238	9.903	-6.862E-07	-7.247E-07	-6.669
58	73	304.2	547.6	-0.007	-0.008	11.234	9.894	-2.753E-06	-2.859E-06	-0.031
59	74	304.4	548.0	-0.010	-0.008	11.231	9.896	-3.672E-06	-3.8670E-06	0.476
60	75	304.5	548.6	-0.001	-0.001	11.225	9.891	-5.425E-07	-5.714E-07	-1.194
61	76	305.2	549.2	-0.002	-0.002	11.221	9.888	-6.871E-07	-7.236E-07	1.718
62	77	305.3	549.6	-0.006	-0.006	11.219	9.886	-2.477E-06	-2.509E-06	1.658
63	78	305.6	550.1	0.003	0.003	11.215	9.882	1.1861E-06	1.2491E-06	-2.302
64	79	305.5	551.8	0.041	0.041	11.204	9.872	1.761E-05	1.870E-05	0.302
65	80	305.2	552.2	0.243	0.243	11.200	9.869	1.060E-04	1.126E-04	0.184
66	81	307.7	553.5	0.407	0.358	11.187	9.858	1.576E-04	1.660E-04	-0.441
67	82	308.4	555.2	0.566	0.458	11.178	9.850	2.154E-04	2.311E-04	-0.361
68	83	309.4	556.5	0.830	0.535	11.165	9.833	2.370E-04	2.497E-04	-0.060
69	84	309.7	557.5	0.502	0.502	11.161	9.835	2.213E-04	2.331E-04	-0.113
70	85	310.4	558.7	0.569	0.502	11.152	9.827	2.214E-04	2.332E-04	-0.127
71	86	310.5	559.0	0.467	0.467	11.150	9.825	2.063E-04	2.173E-04	-0.137
72	87	311.1	560.0	0.459	0.459	11.143	9.818	2.029E-04	2.138E-04	-0.136
73	88	311.9	561.5	0.444	0.444	11.132	9.809	1.965E-04	2.070E-04	-0.166
74	89	312.5	563.2	0.494	0.494	11.120	9.798	2.187E-04	2.304E-04	-0.169
75	90	313.3	562.2	0.532	0.532	11.127	9.804	2.072E-04	2.183E-04	-0.215

FREE-STREAM DENSITY=VELOCITY PRODUCT = 2.0703E-01 (SLUGS/FT2-SEC)

PROBE NC. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

WACH 5.10 REL 4.1426E C6 4.1426E C6 0.514 14.22 PT(ATM) 1122.6 TT(DEG K) 1.1861E C6 1.000 HAW/HT TEST NO. 158
WACH 5.1C REL 4.1496E C6 4.1496E C6 3.500 209.09 PT(PSI) 2020.7 TT(DEG R) 510.07 MT(8TU/LBM) 1.000 HAW/HT RUN NO. 58
RS(METER) 0.3048 RS(FT) 1.0000 HAW/HT CONSTANT SET 22.1

CHAN	T/C	H/W/FT	Q/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/BS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	C.260	C.0020	C.0020	C.0024	C.0024	11	11	0.264	0.0903	0.0903	0.1034	0.1090
2	2	C.261	C.0077	C.0077	0.0092	0.0092	12	12	0.264	0.0933	0.0933	0.1069	0.1126
3	3	0.262	0.0344	0.0344	0.0415	0.0415	13	13	0.263	0.1140	0.1140	0.1304	0.1375
4	4	C.263	C.0414	0.0414	0.0499	0.0499	14	14	0.263	0.1182	0.1182	0.1352	0.1425
5	5	C.263	C.0459	0.0459	0.0571	0.0571	15	15	0.263	0.1431	0.1431	0.1638	0.1726
6	6	C.263	C.0559	0.0559	0.0674	0.0674	16	16	0.259	-0.0007	-0.0007	-0.0007	-0.0007
7	7	C.264	C.0665	0.0665	0.0761	0.0761	17	17	0.255	-0.0007	-0.0007	-0.0008	-0.0009
8	8	C.264	C.0829	0.0829	0.0945	0.0945	18	18	0.260	0.0008	0.0008	0.0009	0.0009
9	9	C.264	C.0816	0.0816	0.0984	0.0984	19	19	0.261	0.0056	0.0056	0.0064	0.0067
10	10	C.264	C.0772	0.0772	0.0932	0.0932	20	20	0.261	0.0298	0.0298	0.0341	0.0359

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/L	TIME(SEC)	REL LENGTH(METER)	REL LENGTH(FT)	PT(ALT)	TI(DEC K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
1	1	304.5	4.1496E-06	0.914	14.22	1122.6	1.1861E-06	0.3048	1.000	158
2	2	309.4	4.1495E-06	3.000	209.09	2020.7	510.07	1.0000	1.000	58
3	3	309.6	551.7	551.7	0.326	14.390	12.679	6.5231E-06	6.8735E-04	1.179
4	4	310.2	557.3	557.3	0.397	14.356	12.650	2.4691E-05	2.6020E-05	0.865
5	5	310.4	558.3	558.3	0.435	14.335	12.631	1.1103E-04	1.1702E-04	0.577
6	6	311.2	558.8	558.8	0.522	14.325	12.623	1.3339E-04	1.4059E-04	0.288
7	7	311.2	560.1	560.1	0.630	14.321	12.619	1.6098E-04	1.6965E-04	-0.260
8	8	312.1	560.3	560.3	0.704	14.307	12.607	1.8006E-04	1.8979E-04	-0.392
9	9	312.3	561.8	561.8	0.836	14.307	12.606	2.1439E-04	2.2598E-04	-0.251
10	10	311.5	562.1	562.1	1.044	14.292	12.593	2.6716E-04	2.8162E-04	0.144
11	11	311.5	561.5	561.5	1.165	14.288	12.590	2.7718E-04	2.7718E-04	0.190
12	12	312.0	561.5	561.5	1.104	14.295	12.596	2.4899E-04	2.6246E-04	0.185
13	13	310.7	559.3	559.3	1.291	14.296	12.596	2.9113E-04	3.0488E-04	0.209
14	14	310.7	559.3	559.3	1.334	14.294	12.595	3.0094E-04	3.1722E-04	0.275
15	15	310.2	553.4	553.4	1.437	14.316	12.614	3.6733E-04	3.8717E-04	0.322
16	16	305.6	553.1	553.1	1.490	14.316	12.614	3.8085E-04	4.0142E-04	0.402
17	17	307.3	553.1	553.1	1.806	14.325	12.622	4.6129E-04	4.8619E-04	0.450
18	18	307.9	553.5	553.5	-0.008	14.405	12.693	-1.8596E-06	-1.9594E-06	0.326
19	19	307.9	553.5	553.5	-0.009	14.405	12.694	-2.2790E-06	-2.4012E-06	0.364
20	20	306.6	553.5	553.5	0.010	14.376	12.668	2.4567E-06	2.5088E-06	0.314
					0.011	14.365	12.658	1.8001E-05	1.8969E-05	0.844
					0.377	14.353	12.647	9.6058E-05	1.0123E-04	0.608

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7034E-01 (SLUGS/FT2-SEC)

PRCE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MAC: 5.10 REL/METER 4.4127E 06 4.0350E 06 4.0350E 06 5.10 REL LENGTH(METER) 0.914 209.09 2054.5

MACH 5.10 1.345E 06 4.035E 06 4.035E 06 5.10 REL LENGTH(FT) 3.000 519.43 1.0000

RS(METER) 0.3048 RS(FT) 1.0000 HAM/HT 1.000 HAM/HT 1.000

TEST NO. 158 TEST NO. 58 RUN NO. 58

CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	39	0.259	0.0498	0.3606	0.258	0.0498	39	39	0.258	0.0498	0.3606	0.2570	0.0600
22	40	0.261	0.0570	0.0688	0.259	0.0537	40	40	0.259	0.0537	0.0614	0.0614	0.0647
23	41	0.260	0.0481	0.0580	0.259	0.0693	41	41	0.259	0.0693	0.0793	0.0793	0.0835
24	42	0.259	0.0387	0.0443	0.260	0.0732	42	42	0.260	0.0732	0.0837	0.0837	0.0882
25	43	0.258	0.0234	0.0267	0.261	0.0712	43	43	0.261	0.0712	0.0815	0.0815	0.0859
26	44	0.258	0.0070	0.0080	0.260	0.0672	44	44	0.260	0.0672	0.0679	0.0679	0.0810
27	45	0.257	0.0033	0.0037	0.259	0.0679	45	45	0.259	0.0679	0.0725	0.0725	0.0874
28	46	0.256	0.0019	0.0022	0.259	0.0725	46	46	0.259	0.0725	0.0829	0.0829	0.1061
29	47	0.255	0.0010	0.0012	0.260	0.0880	47	47	0.260	0.0880	0.1118	0.1118	0.1178
30	48	0.254	-0.0003	-0.0004	0.259	0.0978	48	48	0.259	0.0978	0.1282	0.1282	0.1351
31	49	0.254	-0.0009	-0.0011	0.259	0.1121	49	49	0.259	0.1121	0.1347	0.1347	0.1623
32	50	0.254	-0.0013	-0.0015	0.258	0.1347	50	50	0.258	0.1347	0.1540	0.1540	0.1623
33	51	0.255	-0.0003	-0.0003	0.255	-0.0017	51	56	0.255	-0.0017	-0.0019	-0.0019	-0.0021
34	52	0.255	0.0005	0.0006	0.255	-0.0017	52	57	0.255	-0.0017	-0.0017	-0.0017	-0.0021
35	53	0.255	0.0019	0.0022	0.256	0.0005	53	58	0.256	0.0005	0.0005	0.0005	0.0006
36	54	0.257	0.0038	0.0043	0.258	0.0045	54	59	0.258	0.0045	0.0090	0.0090	0.0109
37	55	0.257	0.0090	0.0103	0.259	0.0109	55	60	0.259	0.0109	0.0345	0.0345	0.0420
38		0.258	0.0337	0.0386	0.259	0.0349							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APLS RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 4.417E-06 REL LENGTH(METER) P(LATH) TT(CCC K) HT(JULLE/MG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.10 RE/FT 1.345E-06 REL LENGTH(FT) PT(PST) TT(CFG R) FT(RTU/LBM) RS(FT) HAM/HT RUN NO. 58
 MACH 5.10 RE/SEC 4.0350E-06 REL LENGTH(FT) 2054.5 519.43 1.0000 1.0000

CHAN	Y/C	TWIDEG K)	TWIDEG R)	Q(W/CM2)	C(LRTU/FT2-SEC)	CS(W/CM2)	CS(RTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
21	21	311.0	535.8	0.738	0.650	14.666	12.922	1.6412E-04	1.7292E-04	-0.103
22	22	312.0	564.8	0.735	0.634	14.617	12.879	1.8606E-04	1.9606E-04	0.043
23	23	312.6	562.7	0.704	0.621	14.637	12.897	1.5689E-04	1.6532E-04	-0.040
24	24	312.0	561.5	0.567	0.503	14.648	12.907	1.2630E-04	1.3308E-04	0.215
25	25	310.5	555.6	0.343	0.302	14.667	12.924	7.6251E-05	8.0339E-05	0.561
26	26	310.0	558.0	0.103	0.090	14.682	12.937	2.2787E-05	2.4007E-05	0.573
27	27	308.7	555.7	0.048	0.042	14.705	12.957	1.0505E-05	1.1172E-05	0.684
28	28	307.6	553.7	0.078	0.025	14.724	12.974	6.1502E-06	6.5207E-06	0.838
29	29	306.1	551.0	0.014	0.012	14.751	12.998	3.1300E-06	3.2967E-06	1.721
30	30	305.4	549.8	-0.004	-0.004	14.763	13.008	-9.6926E-07	-1.0209E-06	-2.316
31	31	305.2	549.3	-0.014	-0.012	14.767	13.012	-2.9517E-06	-3.1509E-06	-0.652
32	32	305.6	550.0	-0.014	-0.017	14.761	13.006	-4.1943E-06	-4.4176E-06	-0.381
33	33	306.4	551.6	0.004	-0.004	14.745	12.993	-8.9434E-07	-9.4200E-07	-1.573
34	34	307.2	553.0	0.008	0.007	14.732	12.981	1.7186E-06	1.8103E-06	1.362
35	35	307.4	553.3	0.029	0.025	14.729	12.978	6.3495E-06	6.6884E-06	0.769
36	36	308.5	555.3	0.055	0.049	14.709	12.961	1.2283E-05	1.2939E-05	0.683
37	37	309.4	556.9	0.133	0.117	14.694	12.947	2.9401E-05	3.0974E-05	0.679
38	38	310.4	559.7	0.336	0.436	14.676	12.932	1.0996E-04	1.1585E-04	0.575
39	39	310.0	557.9	0.732	0.645	14.684	12.938	1.6251E-04	1.7121E-04	0.207
40	40	311.5	560.8	0.787	0.694	14.656	12.914	1.7519E-04	1.8459E-04	0.002
41	41	311.4	560.5	1.016	0.896	14.658	12.916	2.2608E-04	2.3821E-04	-0.107
42	42	312.8	563.1	1.071	0.940	14.634	12.894	2.3857E-04	2.5140E-04	-0.031
43	43	313.4	564.2	1.042	0.918	14.623	12.885	2.3235E-04	2.4484E-04	0.150
44	44	313.2	563.8	0.983	0.866	14.626	12.888	2.1924E-04	2.3103E-04	0.151
45	45	312.0	561.7	0.594	0.876	14.647	12.906	2.2128E-04	2.3317E-04	0.151
46	46	311.5	561.5	1.062	0.936	14.649	12.908	2.3647E-04	2.4917E-04	0.206
47	47	312.3	562.1	1.289	1.136	14.643	12.902	2.8708E-04	3.0250E-04	0.267
48	48	311.3	560.4	1.434	1.263	14.659	12.917	3.1887E-04	3.3598E-04	0.331
49	49	311.5	560.7	1.643	1.448	14.656	12.914	3.4552E-04	3.6513E-04	0.380
50	50	310.5	558.9	1.577	1.742	14.674	12.929	4.3920E-04	4.6274E-04	0.423
51	51	305.5	549.9	-0.025	-0.022	14.762	13.007	-5.5605E-06	-5.8563E-06	0.514
52	52	307.0	552.6	-0.026	-0.023	14.736	12.984	-5.6879E-06	-5.9913E-06	0.509
53	53	307.4	553.3	0.007	0.006	14.729	12.978	1.5031E-06	1.5833E-06	0.820
54	54	310.3	558.5	0.133	0.117	14.678	12.933	2.9460E-05	3.1038E-05	0.503
55	55	311.0	559.9	0.312	0.451	14.665	12.922	1.1374E-04	1.1988E-04	0.515

FREE-STREAM DENSITY-VLOCITY PRODUCT = 3.6574 -01 (SLUGS/FT2-SEC)

PROPE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***												
PACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	PT(JOULE/KG)	RS(METER)	MAN/HT	TEST NO.	158			
5.10	4.23786 C6	0.8731E 05	14.22	1169.40	1.2400E 06	0.3048	1.000	RUN NO.	50			
5.10	1.2917E C6	3.8751E 06	209.09	2104.1	533.23	1.0000	1.000					
CHAN	T/C	FW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
54	71	0.248	-0.0000	-0.0010	-0.0010	-0.0010	66	0.255	0.0464	0.0464	0.0530	0.0558
57	72	0.248	-0.0010	-0.0010	-0.0012	-0.0013	67	0.256	0.0713	0.0713	0.0814	0.0858
58	73	0.248	-0.0009	-0.0009	-0.0010	-0.0010	68	0.257	0.0928	0.0928	0.0946	0.0997
59	74	0.245	-0.0007	-0.0007	-0.0009	-0.0009	69	0.258	0.0828	0.0828	0.0946	0.0997
60	75	0.250	-0.0006	-0.0006	-0.0007	-0.0007	70	0.259	0.0886	0.0886	0.1013	0.1067
61	76	0.250	-0.0004	-0.0004	-0.0005	-0.0005	71	0.259	0.0878	0.0878	0.1004	0.1058
62	77	0.251	-0.0005	-0.0005	-0.0006	-0.0006	72	0.260	0.0975	0.0975	0.1115	0.1175
63	78	0.252	0.0003	0.0003	0.0003	0.0003	73	0.262	0.0983	0.0983	0.1125	0.1185
64	79	0.253	0.0050	0.0057	0.0060	0.0060	74	0.263	0.1252	0.1252	0.1433	0.1511
65	80	0.254	0.0339	0.0384	0.0406	0.0406	75	0.261	0.1455	0.1455	0.1665	0.1755

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***											
MACH	RE/METER	REL	TM(DEG K)	TM(DEG R)	CLW/CM2	CL(TU/FT2-SEC)	CS(M/CM2)	CS(BTW/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
5.10	4.2378E C6	3.8751E C6	3.914	3.000	0.013	0.011	15.268	13.454	-2.9090E-06	-2.9090E-06	-0.727
5.10	1.2517E C6	3.8751E C6	3.000	3.000	0.013	0.011	15.268	13.454	-2.9090E-06	-2.9090E-06	-0.727
55	71	206.2	551.0	551.0	-0.013	-0.014	15.271	13.456	-2.7633E-06	-2.7633E-06	-0.149
57	72	306.6	552.0	552.0	-0.013	-0.012	15.260	13.446	-3.4778E-06	-3.4778E-06	0.366
58	73	307.4	553.0	553.0	-0.011	-0.010	15.249	13.437	-2.8460E-06	-2.8460E-06	0.623
59	74	308.3	554.0	554.0	-0.009	-0.008	15.233	13.423	-2.4837E-06	-2.4837E-06	0.623
60	75	309.2	556.0	556.0	-0.006	-0.005	15.217	13.408	-2.0389E-06	-2.0389E-06	1.471
61	76	309.7	557.0	557.0	-0.007	-0.006	15.209	13.401	-1.2550E-06	-1.2550E-06	2.795
62	77	310.6	559.0	559.0	0.004	0.004	15.193	13.387	8.8070E-07	9.2739E-07	3.077
63	78	312.2	561.0	561.0	0.076	0.067	15.165	13.362	1.6637E-05	1.7542E-05	0.404
64	79	313.1	562.0	562.0	0.511	0.451	15.149	13.348	1.1193E-04	1.1788E-04	0.268
65	80	314.5	563.0	563.0	0.876	0.818	15.124	13.326	1.5378E-04	1.6198E-04	-0.538
66	81	315.8	565.0	565.0	1.076	0.948	15.101	13.306	2.3632E-04	2.4894E-04	-0.375
67	82	317.5	568.0	568.0	1.248	1.099	15.072	13.281	2.7459E-04	2.8928E-04	0.033
68	83	319.3	571.0	571.0	1.332	1.098	15.058	13.268	2.7452E-04	2.8922E-04	0.052
69	84	320.1	573.0	573.0	1.332	1.173	15.034	13.247	2.9385E-04	3.0961E-04	0.051
70	85	321.1	575.0	575.0	1.319	1.162	15.025	13.239	2.9122E-04	3.0885E-04	0.057
71	86	322.9	578.0	578.0	1.463	1.289	15.008	13.224	3.2334E-04	3.4072E-04	0.044
72	87	324.6	581.0	581.0	1.672	1.297	14.977	13.197	3.2618E-04	3.4376E-04	0.053
73	88	324.6	584.0	584.0	1.872	1.649	14.947	13.170	4.1561E-04	4.3806E-04	0.064
74	89	322.8	581.0	581.0	2.180	1.921	14.977	13.197	4.8292E-04	5.0894E-04	0.065

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.5914E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 1.7422E C6 1.5930E C6 0.914 4.85 1046.6 1.0986E 06 1046.6 1.0986E 06 1.000 1.000 158

MACH 5.10 5.3101E C5 1.5930E C6 3.000 71.36 1083.9 472.41 1083.9 472.41 1.000 1.000 59

REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO.

REL LENGTH(FT) PT(PSI) TT(DEG P) HT(BTU/LBM) RS(FT) HAM/HT CONSTANT SET 2.21

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	Q/QS	HW/HT	T/C	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.281	1.0012	C.C012	0.0014	0.0015	0.283	0.283	11	11	11	0.283	0.0645	0.0741	0.0741	0.0782
2	2	0.261	C.C051	0.0051	0.0058	0.0061	0.282	0.282	12	12	12	0.282	0.0670	C.C670	0.0770	0.0813
3	3	0.282	C.0241	0.0241	0.0277	0.0293	0.282	0.282	13	13	13	0.282	0.0644	0.0740	0.0740	0.0781
4	4	0.282	C.0297	0.0297	0.0341	0.0360	0.282	0.282	14	14	14	0.282	0.0615	0.0706	0.0745	0.0745
5	5	0.282	C.0399	0.0399	0.0459	0.0484	0.282	0.282	15	15	15	0.282	0.0657	0.0755	0.0797	0.0797
6	6	0.282	C.0436	0.0436	0.0501	0.0529	0.281	0.281	16	16	16	0.281	0.0002	C.C002	0.0002	-0.0002
7	7	0.282	C.0524	0.0524	0.0602	0.0636	0.281	0.281	17	17	17	0.281	-0.0001	-0.0001	0.0006	0.0006
8	8	0.283	C.0624	0.0624	0.0765	0.0807	0.281	0.281	18	18	18	0.281	C.C005	0.0006	0.0047	0.0050
9	9	0.263	C.0660	0.0660	0.0758	0.0800	0.281	0.281	19	19	19	0.281	C.C004	C.C004	C.C004	C.C004
10	10	C.0283	C.0612	C.0612	0.0703	0.0742	0.282	0.282	20	20	20	0.282	0.0212	C.C024	C.C024	C.C024

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER HOFFETT FIELD CALIF. *** PRELIMINARY DATA ***		TEST NO. 158								
REL LENGTH(METER) PT(ATM) TT(DES K) FT(LBOULE/KG) RS(AFTER) HAM/HT		RUN NO. 59								
5-10	1.7422E 06	0.914	1.0986E 06							
5-10	5.310E 05	71.36	472.41							
CHAN	T/C	TN(DES K)	TN(DES R)	Q(W/CP2)	C(BTU/FT2-SEC)	QS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	207.3	557.1	0.008	0.008	7.561	6.652	6.3214E-06	6.6732E-06	1.374
2	2	207.7	553.9	0.038	0.034	7.556	6.658	2.6625E-05	2.8107E-05	0.855
3	3	208.0	554.4	0.182	0.161	7.553	6.656	1.2691E-04	1.3398E-04	0.592
4	4	308.2	554.8	0.224	0.197	7.551	6.654	1.508E-04	1.6477E-04	0.331
5	5	308.3	554.9	0.302	0.266	7.550	6.653	2.1014E-04	2.2186E-04	-0.075
6	6	308.5	555.3	0.329	0.290	7.548	6.651	2.2955E-04	2.4235E-04	-0.272
7	7	308.6	555.5	0.396	0.349	7.547	6.650	2.7584E-04	2.9122E-04	-0.202
8	8	309.0	556.2	0.498	0.442	7.543	6.646	3.5014E-04	3.6968E-04	0.081
9	9	309.2	556.5	0.498	0.439	7.542	6.645	3.4720E-04	3.6657E-04	0.100
10	10	309.1	555.4	0.462	0.407	7.542	6.646	3.2205E-04	3.4801E-04	0.072
11	11	309.1	555.4	0.486	0.429	7.542	6.646	3.3935E-04	3.5828E-04	0.061
12	12	309.0	556.2	0.506	0.445	7.543	6.647	3.5260E-04	3.7227E-04	0.115
13	13	308.9	556.0	0.486	0.428	7.545	6.648	3.3882E-04	3.5772E-04	0.093
14	14	308.8	555.8	0.464	0.409	7.545	6.648	3.2332E-04	3.4135E-04	0.096
15	15	308.9	556.1	0.496	0.437	7.544	6.647	3.4568E-04	3.5496E-04	0.108
16	16	307.1	552.7	0.001	0.001	7.563	6.664	9.7529E-07	1.0295E-06	2.651
17	17	307.1	552.8	-0.001	-0.001	7.562	6.663	-6.8522E-07	-7.2834E-07	0.624
18	18	307.5	553.5	0.034	0.033	7.558	6.660	2.5424E-06	2.6840E-06	0.758
19	19	307.6	554.1	0.031	0.027	7.555	6.657	2.1550E-05	2.2750E-05	0.873
20	20	308.0	554.5	0.160	0.141	7.553	6.655	1.1170E-04	1.1792E-04	0.599

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3309E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

MACH 5.10
MACH 5.10
MACH 5.10

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

REOMETER REL 1.5117E 06
RE/FT REL 1.5117E 06

PT(ATM) 1079.9
PT(PSI) 71.36

TT(DEG K) 1079.9
TT(DEG R) 1943.8

HT(JOULE/KG) 1.1368E C6
HT(FTU/LBM) 488.86

RS(METER) 0.3048
RS(FY) 1.0000

HAM/HT 1.000
HAM/HT 1.000

TEST NO. 158
RUN NO. 59

CHAM	T/C	T(DEG K)	T(DEG R)	Q(LW/CH2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(LBTM/FT2-SEC)	GS(LBTM/FT2-SEC)	ST(C.907)	ST(0.874)	TIME(SEC)
21	21	309.7	553.7	0.456	0.402	7.913	6.972	3.0582E-04	3.2682E-04	-0.007	-0.007
22	22	309.3	556.7	0.474	0.418	7.908	6.968	3.2226E-04	3.3996E-04	0.055	0.055
23	23	308.3	555.0	0.349	0.308	7.912	6.972	2.3724E-04	2.5026E-04	-0.144	-0.144
24	24	308.7	555.7	0.255	0.225	7.913	6.972	1.7329E-04	1.8280E-04	-0.006	-0.006
25	25	308.3	555.0	0.115	0.101	7.917	6.976	7.7584E-05	8.2261E-05	0.545	0.545
26	26	308.1	554.7	0.725	0.022	7.919	6.978	1.7082E-05	1.8019E-05	0.636	0.636
27	27	307.8	554.0	0.007	0.006	7.923	6.981	4.8598E-06	5.1578E-06	0.646	0.646
28	28	307.6	553.7	-0.001	-0.000	7.924	6.982	-3.7597E-07	-3.9657E-07	5.114	5.114
29	29	307.5	553.5	0.001	0.001	7.926	6.983	4.8849E-07	5.1526E-07	0.865	0.865
30	30	307.3	553.2	-0.001	-0.001	7.927	6.985	-8.6475E-07	-9.1212E-07	0.695	0.695
31	31	307.2	553.0	-0.002	-0.002	7.928	6.986	-1.2053E-06	-1.2714E-06	0.041	0.041
32	32	307.3	553.1	-0.000	-0.000	7.928	6.986	-3.7379E-06	-3.9427E-06	0.855	0.855
33	33	307.3	553.1	0.002	0.002	7.928	6.986	1.3875E-06	1.4634E-06	1.809	1.809
34	34	307.4	553.3	0.003	0.002	7.927	6.984	7.4072E-07	7.8129E-07	0.474	0.474
35	35	307.4	553.4	0.009	0.008	7.926	6.984	1.8055E-06	1.9044E-06	0.691	0.691
36	36	307.8	554.7	0.041	0.036	7.923	6.979	6.4307E-06	6.7832E-06	0.775	0.775
37	37	308.0	554.3	0.162	0.143	7.921	6.977	2.7562E-05	2.9496E-05	0.757	0.757
38	38	308.2	554.8	0.254	0.224	7.918	6.977	1.0987E-04	1.1990E-04	0.533	0.533
39	39	308.2	554.9	0.283	0.250	7.918	6.977	1.7224E-04	1.8169E-04	0.153	0.153
40	40	308.5	555.4	0.371	0.327	7.915	6.974	1.9242E-04	2.0298E-04	-0.045	-0.045
41	41	308.5	556.0	0.414	0.365	7.911	6.971	2.5225E-04	2.6610E-04	-0.278	-0.278
42	42	309.2	556.6	0.467	0.411	7.908	6.968	2.8132E-04	2.9678E-04	-0.183	-0.183
43	43	309.3	557.0	0.454	0.400	7.906	6.966	3.1734E-04	3.3478E-04	0.048	0.048
44	44	309.4	556.6	0.431	0.380	7.906	6.966	3.0831E-04	3.2525E-04	0.061	0.061
45	45	309.2	556.8	0.415	0.366	7.907	6.967	2.9282E-04	3.0891E-04	0.028	0.028
46	46	309.3	556.9	0.450	0.396	7.907	6.967	2.8214E-04	2.9764E-04	0.017	0.017
47	47	309.4	556.7	0.428	0.377	7.906	6.966	3.0562E-04	3.2241E-04	0.028	0.028
48	48	309.2	556.6	0.423	0.372	7.908	6.968	2.9079E-04	3.0676E-04	0.027	0.027
49	49	309.2	556.6	0.417	0.367	7.908	6.968	2.8713E-04	3.0390E-04	0.017	0.017
50	50	309.0	556.3	0.417	0.367	7.910	6.970	2.8314E-04	2.9888E-04	-0.012	-0.012
51	51	307.5	553.5	0.001	0.001	7.925	6.983	5.9355E-07	6.2607E-07	6.412	6.412
52	52	307.6	553.6	-0.000	-0.000	7.925	6.983	-2.5243E-07	-2.6626E-07	-4.146	-4.146
53	53	307.4	553.4	0.008	0.007	7.926	6.984	5.6256E-06	5.9398E-06	1.507	1.507
54	54	308.4	555.1	0.044	0.039	7.917	6.976	3.0119E-05	3.1772E-05	0.816	0.816
55	55	309.5	555.5	0.176	0.155	7.914	6.973	1.1946E-04	1.2602E-04	0.527	0.527

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3009E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.				
5.10	1.617E C6	1.4787E C6	0.914	4.85	1094.2	1.1533E C6	0.3048	1.000	158				
MACH	RE/FT	REL	LENGTH(FT)	PT(PST)	TT(DEG R)	H(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.				
5.10	4.9289E C5	1.4737E C6	3.000	71.36	1969.6	495.95	1.0000	1.000	59				
CHAN	T/C	HW/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	O/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	71	0.268	-0.0000	-0.0000	-0.0000	-0.0000	66	81	0.269	0.0373	0.0427	0.0451	0.0451
57	72	0.268	-0.0004	-0.0004	-0.0005	-0.0005	67	82	0.270	0.0517	0.0517	0.0593	0.0625
58	73	0.268	0.0002	0.0002	0.0003	0.0003	68	83	0.270	0.0602	0.0602	0.0690	0.0727
59	74	0.268	0.0005	0.0005	0.0006	0.0006	69	84	0.271	0.0570	0.0570	0.0654	0.0689
60	75	0.268	0.0002	0.0002	0.0002	0.0002	70	85	0.271	0.0378	0.0378	0.0662	0.0699
61	76	0.268	0.0006	0.0007	0.0007	0.0007	71	86	0.271	0.0552	0.0552	0.0633	0.0668
62	77	0.268	0.0005	0.0006	0.0007	0.0007	72	87	0.271	0.0552	0.0552	0.0631	0.0667
63	78	0.268	0.0007	0.0008	0.0009	0.0009	73	88	0.272	0.0551	0.0551	0.0631	0.0666
64	79	0.269	0.0035	0.0040	0.0042	0.0042	74	89	0.272	0.0612	0.0612	0.0701	0.0740
65	80	0.269	0.0230	0.0233	0.0238	0.0238	75	90	0.272	0.0570	0.0570	0.0654	0.0689

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TI(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	158	
5.10	1.6171E C6	1.4787E 06	0.914	1094.2	1.1533E 06	0.3048	1.000	RUN NO.	59	
5.10	4.9287E C5	1.4787E 06	3.000	71.36	1969.6	495.95	1.0000	HAW/HT CONSTANT SET ZZ/		
CHN	T/C	TM(DEG K)	TM(DEG R)	Q(LW/CM2)	Q(BTU/FT2-SEC)	Q(S(W/CM2)	Q(S(BTU/FT2-SEC)	ST(U.907)	ST(O.874)	TIME(SEC)
56	71	207.3	533.2	-0.000	-0.000	8.085	7.124	-2.1674E-07	-2.2854E-07	-15.298
57	72	207.4	533.2	-0.003	-0.003	8.085	7.124	-2.0961E-06	-2.2102E-06	-0.236
58	73	207.4	533.4	0.002	0.002	8.084	7.123	1.1568E-06	1.2198E-06	2.989
59	74	207.6	533.6	0.004	0.003	8.083	7.122	2.4940E-06	2.6298E-06	2.073
60	75	207.8	534.0	0.001	0.001	8.080	7.120	8.6749E-07	9.1473E-07	1.697
61	76	207.5	534.3	0.005	0.004	8.079	7.119	3.2743E-06	3.4526E-06	1.050
62	77	209.C	534.5	0.004	0.004	8.078	7.118	2.9713E-06	3.1331E-06	1.471
63	78	209.2	534.7	0.006	0.005	8.076	7.116	3.9587E-06	4.2166E-06	0.860
64	79	208.7	535.6	0.028	0.025	8.071	7.112	1.8805E-05	1.9831E-05	0.739
65	80	208.7	535.7	0.185	0.163	8.071	7.111	1.2454E-04	1.3134E-04	0.374
66	81	209.4	536.9	0.301	0.265	8.064	7.106	2.0225E-04	2.1329E-04	-0.203
67	82	209.9	537.0	0.417	0.367	8.059	7.101	2.8055E-04	2.9587E-04	-0.288
68	83	210.5	538.9	0.485	0.427	8.053	7.095	3.2631E-04	3.4415E-04	-0.037
69	84	210.7	539.3	0.459	0.405	8.050	7.094	3.0920E-04	3.2611E-04	-0.086
70	85	211.1	560.0	0.465	0.410	8.046	7.090	3.1331E-04	3.3046E-04	-0.101
71	86	211.2	560.1	0.444	0.392	8.046	7.089	2.9536E-04	3.1593E-04	-0.090
72	87	211.5	560.7	0.444	0.391	8.042	7.086	2.9528E-04	3.1566E-04	-0.130
73	88	212.0	561.6	0.442	0.390	8.037	7.082	2.9853E-04	3.1489E-04	-0.037
74	89	212.5	562.5	0.491	0.431	8.032	7.077	3.3170E-04	3.4989E-04	-0.045
75	90	212.2	562.0	0.458	0.404	8.035	7.080	3.0917E-04	3.2612E-04	-0.115

FREESTREAM DENSITY-VELOCITY PRODUCT = 1.2883E-01 (SLUGS/FT2-SEC)

PROP NO. 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***		TEST NO. 158	
REL LENGTH(METER)		HAW/HT	
REL	REL	RS(METER)	RUN NO. 60
2.1428E C6	2.1428E C6	0.3048	CONSTANT SET 22.1
REL	REL	RS(FT)	HAW/HT
7.1428E C6	2.1428E C6	1.0000	1.0000
PT(ATM)	PT(PSI)	HT(JOULE/KG)	HT(FT/LBP)
9.09	118.86	1.2624E C6	542.85
TT(DEC R)	TT(DEC R)	TT(DEC R)	TT(DEC R)
1188.1	2138.6	1188.1	2138.6
CHAN	T/C	HW/HT	Q/QS
11	11	0.248	0.0464
12	12	0.248	0.0450
13	13	0.247	0.0483
14	14	0.247	0.0458
15	15	0.247	0.0489
16	16	0.244	-0.0003
17	17	0.244	-0.0004
18	18	0.245	0.0002
19	19	0.245	0.0031
20	20	0.246	0.0152
H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)
0.0464	0.0464	0.0464	0.0464
0.0450	0.0450	0.0450	0.0450
0.0483	0.0483	0.0483	0.0483
0.0458	0.0458	0.0458	0.0458
0.0489	0.0489	0.0489	0.0489
-0.0003	-0.0003	-0.0003	-0.0003
-0.0004	-0.0004	-0.0004	-0.0004
0.0002	0.0002	0.0002	0.0002
0.0031	0.0031	0.0031	0.0031
0.0152	0.0152	0.0152	0.0152

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AVES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	REL RE/METER	REL RE/FT	REL LENGTH(METER)	REL LENGTH(FT)	PT(ATM)	PT(PSI)	TI(DEG K)	TI(DEG R)	HT(JOULE/KG)	HT(LBTU/LBM)	RS(METER)	RS(FT)	HAW/HT	HAW/HT	TEST NO.	RUN NO.	TIME(SEC)
5.10	1	2.3424E C6	2.1428E C6	0.914	3.000	8.09	118.86	1188.1	2128.6	1.2624E C6	542.85	0.3048	1.0000	1.000	1.000	158	60	1.221
5.10	2	308.6	309.2	0.016	0.055	0.014	0.049	11.766	11.754	11.766	11.754	5.9023E-06	2.0841E-05	6.2118E-06	2.1935E-05	0.870	0.550	0.870
	3	309.5	309.8	0.237	0.276	0.209	0.243	11.746	11.742	11.746	11.742	9.9618E-05	1.0443E-04	9.4327E-05	1.0992E-04	0.227	0.333	0.227
	4	309.5	309.8	0.340	0.363	0.299	0.320	11.738	11.733	11.738	11.733	1.2873E-04	1.3774E-04	1.0992E-04	1.3550E-04	-0.333	-0.606	-0.333
	5	309.5	309.8	0.444	0.444	0.391	0.444	11.730	11.730	11.730	11.730	1.6813E-04	1.7698E-04	1.4499E-04	1.7698E-04	-0.506	-0.089	-0.506
	6	309.5	309.8	0.597	0.597	0.526	0.526	11.720	11.720	11.720	11.720	2.2636E-04	2.3443E-04	2.3443E-04	2.3443E-04	-0.072	-0.128	-0.072
	7	309.5	309.8	0.524	0.524	0.462	0.462	11.718	11.718	11.718	11.718	1.9887E-04	2.0935E-04	2.0935E-04	2.0935E-04	-0.185	-0.165	-0.185
	8	309.5	309.8	0.544	0.544	0.479	0.479	11.718	11.718	11.718	11.718	2.0649E-04	2.1737E-04	2.1737E-04	2.1737E-04	-0.106	-0.101	-0.106
	9	309.5	309.8	0.527	0.527	0.464	0.464	11.720	11.720	11.720	11.720	2.0002E-04	2.1496E-04	2.1496E-04	2.1496E-04	-0.090	-0.036	-0.090
	10	309.5	309.8	0.567	0.567	0.499	0.499	11.725	11.725	11.725	11.725	2.0350E-04	2.2628E-04	2.2628E-04	2.2628E-04	0.810	0.544	0.810
	11	309.5	309.8	0.537	0.537	0.473	0.473	11.728	11.728	11.728	11.728	2.0002E-04	2.1496E-04	2.1496E-04	2.1496E-04	0.837	0.472	0.837
	12	309.5	309.8	0.573	0.573	0.505	0.505	11.728	11.728	11.728	11.728	2.0350E-04	2.2628E-04	2.2628E-04	2.2628E-04	0.472	0.472	0.472
	13	309.5	309.8	-0.003	-0.003	-0.003	-0.003	11.772	11.772	11.772	11.772	-1.2218E-06	-1.2218E-06	-1.2218E-06	-1.2218E-06	0.036	0.810	0.036
	14	309.5	309.8	-0.005	-0.005	-0.004	-0.004	11.772	11.772	11.772	11.772	-1.9354E-06	-1.9354E-06	-1.9354E-06	-1.9354E-06	0.810	0.544	0.810
	15	309.5	309.8	0.002	0.002	0.002	0.002	11.762	11.762	11.762	11.762	7.1151E-07	7.1151E-07	7.1151E-07	7.1151E-07	0.544	0.837	0.544
	16	309.5	309.8	0.035	0.035	0.032	0.032	11.755	11.755	11.755	11.755	1.3776E-05	1.3776E-05	1.3776E-05	1.3776E-05	0.837	0.472	0.837
	17	309.5	309.8	0.179	0.179	0.157	0.157	11.749	11.749	11.749	11.749	6.7613E-05	6.7613E-05	6.7613E-05	6.7613E-05	0.472	0.472	0.472

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0162E-01 (SLUGS/FT²-SEC)

PROBE NO. 1

MACH		RE/METER		REL LENGTH(METER)		PT(ATM)		RESEARCH CENTER		MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***		TEST NO. 158	
5.10		2.303CE C6		2.1065E 06		0.914		1200.1		RS(METER)		1.000	
MACH		RE/FT		REL LENGTH(FT)		PT(P/SI)		TT(DEG R)		RS(FT)		RUN NO. 60	
5.10		7.3215E C5		2.1065E 06		114.86		2160.2		1.0000		1.000	
CHAN	T/C	W/HT	U/GS	F/H(S(1.000))	H/H(S(0.907))	H/H(S(0.874))	CHAN	T/C	W/HT	O/GS	H/H(S(1.000))	H/H(S(0.907))	H/H(S(0.874))
21	21	C.245	C.0501	0.0501	0.0572	0.0602	39	39	0.244	0.0287	0.0287	0.0327	0.0344
22	22	C.245	C.0531	0.0531	0.0606	0.0638	40	40	0.244	0.0315	0.0315	0.0359	0.0378
23	23	C.245	C.0390	0.0390	0.0445	0.0468	41	41	0.245	0.0420	0.0420	0.0479	0.0504
24	24	C.245	C.0280	0.0280	0.0320	0.0336	42	42	0.245	0.0468	0.0468	0.0534	0.0562
25	25	C.244	C.0127	0.0127	0.0145	0.0152	43	43	0.246	0.0522	0.0522	0.0595	0.0626
26	26	C.244	C.0628	0.0628	0.0031	0.0033	44	44	0.246	0.0501	0.0501	0.0572	0.0602
27	27	C.243	C.0007	0.0007	0.0008	0.0008	45	45	0.245	0.0468	0.0468	0.0534	0.0562
28	28	C.243	-0.0000	-0.0000	-0.0000	-0.0001	46	46	0.245	0.0456	0.0456	0.0521	0.0548
29	29	C.242	-0.0003	-0.0003	-0.0003	-0.0007	47	47	0.246	0.0506	0.0506	0.0573	0.0608
30	30	C.242	-0.0006	-0.0006	-0.0006	-0.0007	48	48	0.245	0.0475	0.0475	0.0541	0.0570
31	31	C.242	-0.0006	-0.0006	-0.0006	-0.0006	49	49	0.245	0.0475	0.0475	0.0542	0.0570
32	32	C.242	-0.0012	-0.0012	-0.0014	-0.0015	50	50	0.245	0.0473	0.0473	0.0539	0.0568
33	33	C.242	-0.0002	-0.0002	-0.0002	-0.0002	51	51	0.242	0.0004	0.0004	0.0004	0.0004
34	34	C.242	C.0000	0.0000	0.0000	0.0000	52	52	0.242	-0.0011	-0.0011	-0.0012	-0.0013
35	35	C.242	0.0004	0.0004	0.0005	0.0005	53	53	0.242	-0.0004	-0.0004	-0.0004	-0.0004
36	36	C.243	C.0009	0.0009	0.0011	0.0011	54	54	0.244	0.0051	0.0051	0.0058	0.0061
37	37	C.243	C.0046	0.0046	0.0052	0.0055	55	55	0.244	0.0201	0.0201	0.0230	0.0242
38	38	C.244	C.0187	0.0187	0.0213	0.0224							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH		REL		LENGTH(METER)		PT(ATM)		TT(CEG K)		RS(METER)		HAM/HT		TEST NO.	
5.10	2.223E 06	2.0328E 06	0.914	3.000	0.909	1225.4	1.3061E 06	0.3048	1.000	1.000	1.000	1.000	158	60	
MACH		REL		LENGTH(FT)		PT(PST)		TT(CEG R)		RS(FT)		HAM/HT		RUN NO.	
5.10	6.7761E 05	2.0328E 06	116.86	3.000	116.86	2205.7	561.64	1.0000	1.000	1.000	1.000	1.000	1.000	1.000	
CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)		
56	71	C.277	-0.0003	-0.0003	-0.0004	-0.0004	66	81	0.241	0.0292	0.0292	0.0393	0.0350		
57	72	C.237	-0.0008	-0.0005	-0.0009	-0.0009	67	82	0.241	0.0431	0.0431	0.0492	0.0517		
58	73	C.237	-0.0004	-0.0004	-0.0005	-0.0005	68	83	0.243	0.0504	0.0504	0.0575	0.0605		
59	74	C.237	-0.0001	-0.0001	-0.0001	-0.0001	69	84	0.243	0.0490	0.0490	0.0558	0.0588		
60	75	C.237	0.0001	0.0001	0.0001	0.0001	70	85	0.244	0.0494	0.0494	0.0563	0.0593		
61	76	C.238	-0.0001	-0.0001	-0.0001	-0.0001	71	86	0.244	0.0467	0.0467	0.0532	0.0560		
62	77	C.238	-0.0001	-0.0001	-0.0001	-0.0001	72	87	0.244	0.0454	0.0454	0.0524	0.0551		
63	78	C.238	0.0005	0.0005	0.0006	0.0006	73	88	0.245	0.0441	0.0441	0.0502	0.0529		
64	79	C.234	0.0031	0.0031	0.0037	0.0037	74	89	0.245	0.0484	0.0484	0.0552	0.0581		
65	80	C.240	0.0185	0.0185	0.0226	0.0226	75	90	0.245	0.0455	0.0455	0.0519	0.0546		

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH RE/METER REL LENGTH(PIETER) PT(ATM) TT(CEG K) FT(JULIE/KG) MS(METER) HAM/MT TEST NO. 158
 5.10 4.6111E C6 4.0325E C6 0.614 14.24 114.55 1.2092E 06 C.3048 1.000 61
 MACH RE/FT REL LENGTH(FT) PT(PSI) TT(DEC R) MT(LBU/LBP) RS(FT) HAM/HT RUN NC.
 5.10 1.3445E C6 4.0335E C6 0.669 209.35 2056.5 519.57 1.0000 1.000

CHAN	T/C	TN(DEC K)	TN(DEC F)	G(M/CM2)	G(M/CM2)	Q(BTU/FT2-SEC)	Q(BTU/FT2-SEC)	LS(M/CM2)	LS(BTU/FT2-SEC)	SI(10.907)	SI(10.874)	TIME(SEC)
1	1	310.6	559.1	0.020	0.019	14.701	12.954	4.4520E-06	4.7327E-06	1.704	1.704	1.007
2	1	312.5	562.4	0.082	0.072	14.669	12.926	1.8253E-05	1.9231E-05	1.007	1.007	0.687
3	2	313.6	564.5	0.434	0.383	14.649	12.908	9.6720E-05	1.0192E-04	0.687	0.687	0.465
4	4	314.1	565.4	1.374	0.504	14.640	12.900	1.7790E-04	1.3478E-04	0.465	0.465	0.090
5	5	314.5	566.1	0.803	0.708	14.534	12.894	1.7562E-04	1.8866E-04	-0.051	-0.051	0.000
6	6	315.2	567.3	0.930	0.820	14.621	12.883	2.0750E-04	2.0397E-04	0.000	0.000	0.257
7	7	315.3	567.6	1.123	0.989	14.619	12.881	2.5046E-04	3.3783E-04	0.257	0.257	0.306
8	8	316.5	569.7	1.434	1.204	14.599	12.863	3.2052E-04	3.3949E-04	0.306	0.306	0.324
9	9	316.8	570.2	1.441	1.270	14.597	12.862	3.1192E-04	3.2874E-04	0.324	0.324	0.381
10	10	316.6	569.9	1.356	1.230	14.596	12.861	3.6543E-04	3.8517E-04	0.381	0.381	0.423
11	11	316.6	569.5	1.635	1.441	14.595	12.860	3.7029E-04	3.9029E-04	0.423	0.423	0.452
12	12	316.7	570.0	1.657	1.460	14.615	12.878	4.4201E-04	4.6585E-04	0.452	0.452	1.573
13	13	315.5	568.0	1.980	1.759	14.616	12.879	4.4554E-04	4.6957E-04	0.493	0.493	-0.209
14	14	315.5	567.8	1.997	1.759	14.625	12.887	5.3072E-04	5.5932E-04	0.493	0.493	2.541
15	15	315.9	567.8	-0.005	-0.005	14.714	12.965	-1.1438E-06	-1.8054E-06	-0.209	-0.209	1.021
16	16	309.8	557.8	-0.008	-0.007	14.715	12.966	-1.7896E-06	-1.1905E-06	2.541	2.541	1.021
17	17	311.4	560.5	0.005	0.004	14.688	12.942	1.0730E-06	1.3736E-06	1.021	1.021	0.702
18	18	312.0	561.6	0.059	0.052	14.677	12.933	1.3036E-05	1.3736E-05	0.702	0.702	0.702
19	19	312.0	561.6	0.059	0.052	14.677	12.933	1.3036E-05	1.3736E-05	0.702	0.702	0.702
20	20	312.7	562.9	0.351	0.307	14.665	12.922	7.8047E-05	8.2240E-05	0.702	0.702	0.702

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6593E-01 (SLUGS/FT2-SEC)

PROC NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER PUFFETT FIELD CALIF. PRELIMINARY DATA ***
 WACH RE/METER REL LENGTH(PETER) P(TIATH) (TIDEG K) MIJOULE/KG) R(SPIETER) MAW/MT TEST NO. 158
 4.2212 CC 3.859E 06 0.914 1172.5 1.2441E 06 0.3048 1.000 RUN NO. 61
 PACH RE/FT REL LENGTH(FT) P(TIPSI) Y(TIDEG R) P(TIATU/LOP) RS(FT) MAW/MT
 5.11 1.226E 06 3.859E 06 3.000 209.35 2110.5 535.01 1.0000 1.000

CHAK	Y/C	TI(DEC K)	TI(DEC R)	G(W/CM2)	G(TU/FT2-SEC)	W(M/CM2)	U(SIATU/FT2-SEC)	STIG(SEC)	STIG(SEC)	Y(MP/SEC)
21	21	315.5	568.6	C.747	C.653	15.176	13.372	1.615E-04	1.722E-04	-0.168
22	22	315.6	572.6	C.834	C.733	15.228	13.330	1.821E-04	1.929E-04	-0.024
23	23	317.2	571.0	C.857	C.779	15.153	13.352	1.441E-04	1.518E-04	-0.168
24	24	316.8	559.8	C.875	C.847	15.154	13.362	1.117E-04	1.170E-04	0.087
25	25	317.5	567.9	C.875	C.843	15.183	13.379	9.60E-05	6.341E-05	0.668
26	26	316.6	566.3	C.864	C.857	15.199	13.392	1.407E-05	1.482E-05	0.792
27	27	315.2	563.5	C.817	C.813	15.222	13.412	3.733E-06	3.031E-06	1.087
28	28	316.3	562.1	-C.001	-0.001	15.240	13.428	-2.400E-07	-2.532E-07	0.119
29	29	311.0	559.8	-C.005	-0.005	15.262	13.448	-1.142E-06	-1.203E-06	-1.113
30	30	310.3	558.5	-C.013	-0.013	15.274	13.460	-2.314E-06	-2.463E-06	-0.044
31	31	309.7	557.5	-C.023	-0.020	15.285	13.468	-4.918E-06	-5.178E-06	0.111
32	32	309.5	557.9	-C.042	-0.037	15.281	13.464	-1.160E-06	-9.645E-06	0.317
33	33	310.7	559.3	-C.003	-G.002	15.287	13.452	-5.845E-07	-6.155E-07	-0.870
34	34	311.6	560.9	C.001	C.001	15.292	13.439	2.446E-07	2.997E-07	2.616
35	35	312.0	561.6	C.005	C.005	15.245	13.433	1.143E-06	1.204E-06	0.734
36	36	313.1	563.5	C.020	C.018	15.226	13.416	4.471E-06	4.653E-06	0.737
37	37	314.1	565.3	C.088	C.078	15.108	13.401	1.930E-05	2.027E-05	C.713
38	38	314.5	566.8	C.375	C.351	15.194	13.388	8.203E-05	8.640E-05	0.563
39	39	314.5	566.1	C.567	C.500	15.201	13.394	1.234E-04	1.305E-04	0.157
40	40	316.0	568.7	C.584	C.514	15.175	13.371	1.277E-04	1.345E-04	-0.146
41	41	315.9	568.6	C.817	0.720	15.176	13.372	1.767E-04	1.862E-04	-C.264
42	42	317.3	571.2	C.884	0.779	15.151	13.350	1.917E-04	2.041E-04	-0.190
43	43	318.1	572.6	C.953	C.840	15.138	13.338	2.091E-04	2.203E-04	0.046
44	44	318.2	572.4	C.912	C.809	15.139	13.339	2.014E-04	2.122E-04	0.055
45	45	316.5	570.5	C.954	C.850	15.158	13.336	2.050E-04	2.201E-04	0.073
46	46	316.5	570.4	1.010	C.890	15.150	13.357	2.213E-04	2.381E-04	0.116
47	47	317.2	571.0	1.231	1.095	15.153	13.352	2.698E-04	3.042E-04	0.184
48	48	316.3	569.4	1.393	1.227	15.168	13.365	3.044E-04	3.739E-04	0.271
49	49	316.4	569.5	1.621	1.429	15.167	13.364	3.550E-04	4.526E-04	C.330
50	50	315.4	567.6	1.965	1.731	15.184	13.379	4.297E-04	5.260E-04	C.377
51	51	309.7	557.5	-C.013	-0.011	15.284	13.467	-2.735E-06	-2.800E-06	-0.387
52	52	311.3	560.9	-C.020	-0.017	15.250	13.444	-4.272E-06	-4.459E-06	0.397
53	53	311.6	560.9	C.003	C.003	15.251	13.438	7.261E-07	7.694E-07	5.146
54	54	314.6	566.2	C.109	C.094	15.199	13.393	2.373E-05	2.499E-05	0.853
55	55	315.4	567.7	C.429	C.377	15.185	13.380	9.351E-05	9.849E-05	0.602

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.587E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH		REL LENGTH(METER)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)	
5.10	4.0675E C6	2.7193E C6	3.914	14.24	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RSPMETER)	MAW/MT	TEST NO.	150	MAW/MT	1.000	MAW/MT	1.000
5.10	1.2158E C6	3.7193E 06	3.000	209.35	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)
CPA	T/C	Q/GS	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)	M/HS(1.000)
56	71	C.245	-C.0001	-0.0001	66	81	0.251	0.0398	0.0454	0.0478	0.0478	0.0454	0.0691	0.0728	0.0728
57	72	C.245	-C.0004	-0.0005	67	82	C.252	0.0405	0.0605	0.0691	0.0691	0.0605	0.0747	0.0899	0.0899
58	73	C.245	-0.0004	-0.0005	68	83	0.254	0.0747	0.0854	0.0854	0.0854	0.0747	0.0750	0.0913	0.0913
59	74	C.245	-C.0006	-0.0007	69	84	0.255	0.0750	0.0866	0.0866	0.0866	0.0750	0.0813	0.0929	0.0929
60	75	C.246	-C.0003	-0.0004	70	85	C.256	0.0813	0.0929	0.0929	0.0929	0.0813	0.0907	0.0955	0.0955
61	76	C.247	-0.0007	-0.0009	71	86	0.256	0.0793	0.0879	0.0879	0.0879	0.0793	0.1004	0.1058	0.1058
62	77	C.247	-C.0006	-0.0007	72	87	0.257	0.0879	0.0882	0.0882	0.0882	0.0879	0.1089	0.1083	0.1083
63	78	C.248	C.0000	0.0000	73	88	0.258	0.0882	0.0882	0.0882	0.0882	0.0882	0.1120	0.1359	0.1359
64	79	C.249	C.0035	0.0042	74	89	C.260	0.1120	0.1120	0.1120	0.1120	0.1120	0.1290	0.1359	0.1359
65	90	C.250	C.0271	0.0309	75	90	0.258	0.1306	0.1306	0.1306	0.1306	0.1306	0.1493	0.1573	0.1573

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA ***									
CHAN	T/C	TM(DEG K)	TM(DEG R)	GM/CM2	GRTU/FT2-SEC	GM/CM2	CS(BTU/FT2-SEC)	STIO(BTU)	TIME(SEC)
56	71	310.7	559.3	-0.002	-0.001	15.755	13.882	-3.6307E-07	-12.207
57	72	310.4	558.7	-0.007	-0.006	15.761	13.887	-1.3513E-06	-1.872
58	73	310.5	559.6	-0.007	-0.006	15.752	13.880	-1.4262E-06	-0.743
59	74	311.5	560.7	-0.009	-0.008	15.742	13.871	-1.8753E-06	0.185
60	75	312.2	562.1	-0.005	-0.004	15.727	13.858	-1.0587E-06	-0.243
61	76	313.2	563.8	-0.011	-0.010	15.711	13.843	-2.4172E-06	0.708
62	77	313.7	564.5	-0.009	-0.008	15.703	13.837	-2.0086E-06	0.173
63	78	314.5	566.1	0.000	0.000	15.688	13.824	1.0511E-07	-4.592
64	79	316.0	568.8	0.055	0.049	15.662	13.801	1.1863E-05	0.713
65	80	316.5	570.4	0.424	0.373	15.647	13.787	9.1300E-05	0.396
66	81	318.5	573.4	0.621	0.547	15.617	13.761	1.2419E-04	-0.376
67	82	320.2	576.3	0.743	0.631	15.589	13.736	2.0415E-04	2.1499E-04
68	83	322.2	580.0	1.162	1.024	15.553	13.704	2.5214E-04	0.012
69	84	323.3	581.9	1.178	1.033	15.534	13.658	2.5587E-04	2.6555E-04
70	85	324.8	584.6	1.260	1.110	15.507	13.664	2.5878E-04	0.030
71	86	325.1	585.2	1.230	1.184	15.502	13.659	2.7425E-04	0.024
72	87	325.5	586.7	1.361	1.199	15.487	13.647	2.6771E-04	0.019
73	88	327.7	589.8	1.364	1.202	15.457	13.620	2.9650E-04	-0.018
74	89	329.2	592.7	1.740	1.533	15.429	13.594	3.0690E-04	-0.009
75	90	327.4	589.3	2.019	1.774	15.462	13.624	4.6073E-04	-0.011

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.5275E-01 (SLUGS/FT2-SEC)

PROB NO. 2

MACH 5.10 4.6675E C6 3.7193E C6 0.914 1198.4 14.24 1198.4 1.2744E C6 0.3048 1.000
 MACH 5.10 1.2358E C6 3.7193E C6 3.000 209.35 2197.0 548.01 1.000
 RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(SOLLE/ANG) MAM/MT TEST NO. 150
 REF/FT REL LENGTH(FT) P(TIPSI) TT(DEG R) HT(BTU/LBP) RS(IFT) MAM/MT RUN NO. 51
 RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(SOLLE/ANG) MAM/MT TEST NO. 150
 REF/FT REL LENGTH(FT) P(TIPSI) TT(DEG R) HT(BTU/LBP) RS(IFT) MAM/MT RUN NO. 51

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.4404E 06 1.3171E 06 0.914 1127.3 4.55 66.84 2.23.2 512.41 1.000 1.000 1.000
 MACH 5.10 4.3903E 05 1.3171E 06 3.100 0.914 1127.3 4.55 66.84 2.23.2 512.41 1.000 1.000 1.000

CHAN	T/C	TM(DEG K)	TM(US R)	Q(M/CM2)	C(BTU/FT2-SEC)	Q(S/M/CM2)	US(BTU/FT2-S-C)	ST(IJ-9C7)	ST(IJ-674)	TIME(SEC)
1	1	311.5	560.8	0.126	0.005	8.126	7.169	4.2764E-06	4.612 E-04	1.455
2	2	312.1	561.9	0.125	0.022	8.130	7.164	1.224E-05	1.922 E-05	0.991
3	3	312.6	562.6	0.132	0.116	8.126	7.160	9.8053E-05	9.8053E-05	0.701
4	4	312.8	563.1	0.166	0.247	8.123	7.157	1.2348E-04	1.2348E-04	0.447
5	5	312.9	563.2	0.236	0.208	8.122	7.157	1.5508E-04	1.7507E-04	0.040
6	6	313.3	563.9	0.272	0.239	8.119	7.154	1.9137E-04	2.0172E-04	-0.124
7	7	313.3	564.0	0.326	0.280	8.118	7.153	2.4001E-04	2.4244E-04	-0.120
8	8	313.9	565.0	0.421	0.378	8.113	7.148	3.0401E-04	3.2049E-04	0.123
9	9	314.0	565.2	0.429	0.378	8.111	7.147	3.0234E-04	3.1874E-04	0.138
10	10	313.9	565.0	0.402	0.354	8.113	7.149	2.1445E-04	2.9880E-04	0.117
11	11	313.8	564.9	0.367	0.367	8.114	7.149	2.9222E-04	3.0909E-04	0.084
12	12	313.5	560.8	0.440	0.368	8.136	7.149	2.1913E-04	3.2583E-04	0.545
13	13	313.4	564.1	0.413	0.364	8.119	7.153	2.9091E-04	3.0644E-04	0.108
14	14	313.3	563.9	0.492	0.365	8.119	7.154	2.7885E-04	2.9078E-04	0.114
15	15	313.2	563.7	0.412	0.363	8.120	7.155	2.9015E-04	3.0585E-04	0.113
16	16	311.0	559.8	-0.302	-0.002	8.141	7.174	-1.2067E-06	-1.2718E-06	1.111
17	17	314.1	560.0	-0.102	-0.002	8.140	7.173	-1.3022E-06	-1.3724E-06	-0.016
18	18	314.6	560.9	0.111	0.001	8.135	7.168	3.9559E-07	4.2116E-07	1.538
19	19	312.0	561.5	0.119	0.017	8.132	7.165	1.3213E-05	1.3926E-05	1.017
20	20	312.3	562.1	0.125	0.033	8.129	7.163	7.3895E-05	7.7888E-05	0.613

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.41801E-1 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.1 1.4767E 03 1.2857E 10 0.114 4.5 1143.6 1.2104E C6 RS(METER) HAM/HT TEST NO. 158
 MACH 5.1 4.2355E 01 1.2957E 06 3.30 66.84 2058.4 52C.51 RS(FT) HAM/HT RUN NO. 62

CHAN	T/C	HM/HT	U/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	G/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	0.261	0.0246	0.0546	0.0262	0.0658	39	39	0.260	0.0254	0.0291	0.0306	
22	22	0.261	0.0562	0.0555	0.0681	0.0681	40	40	0.261	0.0290	0.0332	0.0350	
23	23	0.261	0.0429	0.0429	0.0349	0.0517	41	41	0.261	0.0427	0.0489	0.0514	
24	24	0.261	0.0307	0.0307	0.0370	0.0370	42	42	0.261	0.0469	0.0537	0.0566	
25	25	0.261	0.0120	0.0120	0.0145	0.0145	43	43	0.262	0.0542	0.0621	0.0654	
26	26	0.261	0.0020	0.0020	0.0024	0.0024	44	44	0.262	0.0534	0.0611	0.0644	
27	27	0.260	0.0033	0.0033	0.0044	0.0044	45	45	0.261	0.0509	0.0583	0.0614	
28	28	0.260	0.0001	0.0001	0.0001	0.0001	46	46	0.261	0.0499	0.0571	0.0602	
29	29	0.259	0.0003	0.0003	0.0004	0.0004	47	47	0.261	0.0539	0.0617	0.0650	
30	30	0.259	0.0007	0.0007	0.0008	0.0009	48	48	0.261	0.0517	0.0592	0.0624	
31	31	0.259	0.0008	0.0008	0.0009	0.0009	49	49	0.261	0.0515	0.0590	0.0621	
32	32	0.259	0.0012	0.0012	0.0013	0.0014	50	50	0.261	0.0521	0.0596	0.0628	
33	33	0.259	0.0000	0.0000	0.0000	0.0000	51	51	0.259	0.0017	0.0020	0.0021	
34	34	0.259	0.0013	0.0013	0.0014	0.0014	52	52	0.259	0.0017	0.0020	0.0021	
35	35	0.261	0.0004	0.0004	0.0004	0.0004	53	53	0.260	0.0006	0.0007	0.0007	
36	36	0.260	0.0007	0.0007	0.0007	0.0007	54	54	0.261	0.0009	0.0010	0.0011	
37	37	0.261	0.0037	0.0037	0.0042	0.0044	55	55	0.261	0.0037	0.0042	0.0044	
38	38	0.261	0.0149	0.0149	0.0171	0.0180	55	60	0.261	0.0169	0.0193	0.0203	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center Moffett Field Calif. *** PRELIMINARY DATA ***
 MACH 5.1C 1.476 E C4 1.2857E 06 0.914 4.55 TT (DEG K) 1143.6 3.48 HAM/HT 1.000 TEST NO. 158
 MACH 5.1C 4.2857E C5 1.2857E C5 3.370 66.84 TT (DEG R) 2058.4 1.000 RS (FT) 1.000 HAM/HT 1.000 RUN NO. 62

CHAN	T/C	TIME (DEG K)	TIME (DEG R)	Q (W/CM2)	Q (BTU/FT2-SEC)	Cs (W/CM2)	Qs (BTU/FT2-SEC)	STIG (Y07)	STIG (074)	TIME (SEC)
21	21	314.6	566.4	0.452	0.398	8.278	7.294	3.1518E-04	3.3214E-04	0.129
22	22	315.7	568.2	0.467	0.411	8.268	7.285	3.2613E-04	3.4374E-04	0.172
23	23	315.0	567.0	0.459	0.392	8.275	7.291	2.4757E-04	2.6090E-04	-0.006
24	24	314.8	566.7	0.454	0.388	8.277	7.293	1.7723E-04	1.8678E-04	0.116
25	25	314.4	565.9	0.450	0.385	8.281	7.296	6.9424E-05	7.3160E-05	0.663
26	26	314.0	565.2	0.447	0.381	8.285	7.300	1.1696E-05	1.2323E-05	0.732
27	27	313.4	564.1	0.442	0.376	8.291	7.305	1.5922E-05	1.7831E-06	0.776
28	28	313.0	563.4	0.440	0.374	8.294	7.309	-6.5499E-07	-7.2863E-07	0.626
29	29	312.6	562.7	0.438	0.372	8.298	7.312	-1.4077E-06	-1.9043E-06	0.403
30	30	312.2	562.0	0.436	0.370	8.302	7.315	-4.1311E-06	-4.3738E-06	0.606
31	31	312.0	561.5	0.435	0.369	8.305	7.318	-4.1778E-06	-4.7601E-06	0.481
32	32	312.0	561.6	0.435	0.369	8.305	7.318	-6.7435E-06	-7.0640E-06	0.402
33	33	312.2	561.9	0.436	0.370	8.303	7.316	1.4400E-06	2.3602E-07	0.108
34	34	312.6	562.6	0.438	0.372	8.299	7.313	1.4695E-06	2.0752E-06	1.372
35	35	312.8	563.0	0.439	0.373	8.297	7.311	7.5371E-06	2.6733E-06	1.294
36	36	313.3	563.9	0.442	0.376	8.292	7.306	9.1832E-06	4.4081E-06	0.979
37	37	313.7	564.7	0.444	0.378	8.288	7.302	6.1369E-05	2.2413E-05	0.899
38	38	314.1	565.3	0.446	0.380	8.284	7.299	6.6167E-05	9.0803E-05	0.661
39	39	314.9	565.8	0.449	0.383	8.286	7.301	1.4581E-04	1.5470E-04	0.316
40	40	315.6	566.2	0.452	0.386	8.279	7.295	1.6755E-04	1.7669E-04	0.133
41	41	315.5	566.1	0.451	0.385	8.280	7.296	2.4544E-04	2.5971E-04	-0.052
42	42	315.1	567.2	0.449	0.384	8.274	7.290	2.7101E-04	2.8562E-04	-0.027
43	43	315.5	567.8	0.449	0.385	8.270	7.287	3.1333E-04	3.3022E-04	0.157
44	44	315.2	567.8	0.448	0.384	8.270	7.287	3.2444E-04	3.2504E-04	0.170
45	45	315.1	567.2	0.447	0.383	8.274	7.290	3.2444E-04	3.2504E-04	0.142
46	46	315.1	567.2	0.447	0.383	8.274	7.290	2.9822E-04	3.0379E-04	0.149
47	47	315.1	567.2	0.447	0.383	8.274	7.290	2.9822E-04	3.0379E-04	0.156
48	48	314.7	566.4	0.447	0.383	8.278	7.294	2.9822E-04	3.0379E-04	0.162
49	49	314.6	566.4	0.447	0.383	8.278	7.294	2.9822E-04	3.0379E-04	0.168
50	50	314.3	565.7	0.446	0.382	8.282	7.298	3.0104E-04	3.1724E-04	0.176
51	51	312.4	562.3	0.443	0.380	8.301	7.310	9.9429E-06	1.0529E-05	1.075
52	52	312.7	562.9	0.444	0.381	8.297	7.311	-3.5586E-06	-3.6443E-06	1.171
53	53	312.8	563.1	0.444	0.381	8.296	7.310	5.0793E-06	5.3521E-06	0.836
54	54	314.2	565.0	0.447	0.383	8.283	7.298	2.1161E-05	2.2299E-05	0.674
55	55	314.5	566.2	0.448	0.384	8.279	7.295	9.7407E-05	1.0265E-04	0.674

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.4674E-01 (SLUGS/FT2-SEC)

PROPE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CENTER, MOFFETT FIELD, CALIF. *** PRELIMINARY DATA ***										
MACH		REF/TEST	R/L	W/H/HT	Q/QS	T/C	CHAN	T/C	H/W/HT	Q/QS
5.17		1.22774	CS	1.22774	CS	1.22774	CS	1.22774	CS	1.22774
MACH		REF/TEST	R/L	W/H/HT	Q/QS	T/C	CHAN	T/C	H/W/HT	Q/QS
5.17		1.22774	CS	1.22774	CS	1.22774	CS	1.22774	CS	1.22774
56	71	0.254	0.0022	0.0002	0.0002	66	81	0.298	0.0340	0.0359
57	72	0.254	-0.0005	-0.0005	-0.0005	67	82	0.441	0.0504	0.0531
58	73	0.254	0.0004	0.0004	0.0004	68	83	0.523	0.0598	0.0630
59	74	0.254	0.0000	0.0000	0.0000	69	84	0.57	0.0507	0.0610
60	75	0.254	-0.0004	-0.0004	-0.0004	70	85	0.524	0.0599	0.0631
61	76	0.254	-0.0001	-0.0001	-0.0001	71	86	0.497	0.0568	0.0598
62	77	0.254	0.0001	0.0001	0.0001	72	87	0.486	0.0555	0.0585
63	78	0.254	0.0003	0.0003	0.0003	73	88	0.472	0.0539	0.0568
64	79	0.254	0.0020	0.0020	0.0020	74	89	0.512	0.0586	0.0617
65	80	0.254	0.0170	0.0170	0.0195	75	90	0.558	0.0579	0.0610

TEST NO. 153

RUN NO. 62

H/W/HT 1.000

H/W/HT 1.000

PS (METER) 0.3148

RS (FT) 1.0000

HT (Joule/Kg) 1.2471E 06

HT (BTU/LBM) 536.26

TT (Deg K) 1175.0

TT (Deg R) 2115.0

PI (Psi) 60.84

H/HS (0.874) 0.2003

LENGTH (METER) 4.55

LENGTH (FT) 3.8700

H/HS (1.000) 0.0022

H/HS (0.907) 0.0340

H/HS (0.874) 0.2003

H/HS (0.874) 0.2003

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD, CALIF. *** PRELIMINARY DATA ***

MACH 5.17
 R/W (MET) 7.391E-06
 R/W (LBS) 7.391E-06
 MACH 5.11
 R/W (MET) 7.872E-05
 R/W (LBS) 7.872E-05

TIME (SEC) 1127.5
 TIME (MIN) 18.458
 TIME (HOUR) 0.308

PSI (LBS/IN²) 10.000
 PSI (INCHES) 10.000
 PSI (FT) 10.000

TEST NO. 158
 RUN NO. 63

CHAN	T/C	T/DEG F	T/DEG R	Q (W/CM ²)	Q (BTU/FT ² -SEC)	U (M/CM)	U (FT/SEC)	V (M/CM)	V (FT/SEC)	W (M/CM)	W (FT/SEC)	X (M/CM)	X (FT)	Y (M/CM)	Y (FT)	Z (M/CM)	Z (FT)	ST (G.874)	ST (G.907)	TIME (SEC)
1		311.4	560.5	0.142	0.477	0.895	9.800	1.966E-06	2.0730E-06									2.0730E-06	2.0730E-06	2.760
2		312.3	562.3	0.145	0.487	0.880	9.587	1.4248E-05	1.5018E-05									1.5018E-05	1.5018E-05	1.103
3		313.3	563.9	0.160	0.154	10.870	9.578	7.0575E-05	7.4393E-05									7.4393E-05	7.4393E-05	0.637
4		313.7	564.7	0.228	0.201	10.864	9.573	8.9551E-05	9.4399E-05									9.4399E-05	9.4399E-05	0.325
5		314.0	565.2	0.282	0.249	10.861	9.570	1.1105E-04	1.1707E-04									1.1707E-04	1.1707E-04	0.297
6		314.5	566.1	0.508	0.271	10.854	9.564	1.2127E-04	1.2784E-04									1.2784E-04	1.2784E-04	0.622
7		314.6	566.3	0.381	0.336	10.852	9.562	1.5018E-04	1.5823E-04									1.5823E-04	1.5823E-04	0.564
8		315.7	567.8	0.542	0.477	10.841	9.553	2.1549E-04	2.2508E-04									2.2508E-04	2.2508E-04	0.113
9		315.7	568.3	0.534	0.471	10.838	9.550	2.1056E-04	2.2199E-04									2.2199E-04	2.2199E-04	0.087
10		315.6	568.1	0.480	0.423	10.839	9.551	1.8919E-04	1.9946E-04									1.9946E-04	1.9946E-04	0.123
11		313.5	564.3	0.396	0.437	10.839	9.551	1.3564E-04	1.4625E-04									1.4625E-04	1.4625E-04	0.191
12		313.5	564.3	0.571	0.504	10.867	9.575	2.463E-04	2.6378E-04									2.6378E-04	2.6378E-04	0.451
13		314.8	566.7	0.526	0.463	10.850	9.560	2.0705E-04	2.1828E-04									2.1828E-04	2.1828E-04	0.101
14		314.8	566.7	0.495	0.436	10.850	9.560	1.9481E-04	2.0537E-04									2.0537E-04	2.0537E-04	0.100
15		314.6	566.3	0.543	0.478	10.852	9.562	2.1361E-04	2.2519E-04									2.2519E-04	2.2519E-04	0.078
16		310.8	559.4	-0.313	-0.012	10.903	9.607	-5.1568E-06	-5.4348E-06									-5.4348E-06	-5.4348E-06	0.679
17		310.9	559.7	-0.112	-0.010	10.901	9.605	-4.5926E-06	-4.8403E-06									-4.8403E-06	-4.8403E-06	0.692
18		311.9	561.4	-0.111	-0.010	10.889	9.595	-4.2593E-06	-4.4893E-06									-4.4893E-06	-4.4893E-06	0.752
19		312.4	562.3	0.116	0.014	10.882	9.589	6.2414E-06	6.5786E-06									6.5786E-06	6.5786E-06	1.206
20		312.9	563.2	0.094	0.083	10.875	9.582	3.7054E-05	3.9058E-05									3.9058E-05	3.9058E-05	0.382

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1155E-01 (SLUGS/FT²-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MCGRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/REFER 8.12 LENGTH(METER) PLIATM: TT(LEG K) HT(JOULE/KG) W(M/HT) TEST NO. 158
 MACH 5.10 RE/REFER 8.12 LENGTH(FT) PT(P/SI) TT(LEG R) HT(RTU/LBM) W(M/HT) RUN NO. 63

GMAN	T/C	HW/HT	G/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	GMAN	T/C	HW/HT	C/C5	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	0.254	0.0491	0.0562	0.0591	0.0591	39	39	0.257	0.0219	0.0219	0.0251	0.0264
22	22	0.254	0.0524	0.0524	0.0535	0.0535	40	40	0.258	0.0231	0.0231	0.0264	0.0276
23	23	0.259	0.0389	0.0445	0.0469	0.0469	41	41	0.258	0.0388	0.0388	0.0443	0.0467
24	24	0.258	0.0272	0.0313	0.0327	0.0327	42	42	0.259	0.0445	0.0445	0.0509	0.0537
25	25	0.258	0.0107	0.0123	0.0129	0.0129	43	43	0.259	0.0520	0.0520	0.0594	0.0626
26	26	0.257	0.0023	0.0023	0.0028	0.0028	44	44	0.259	0.0505	0.0505	0.0578	0.0609
27	27	0.257	0.0001	0.0001	0.0001	0.0001	45	45	0.259	0.0483	0.0483	0.0552	0.0581
28	28	0.256	0.0006	0.0006	0.0008	0.0008	46	46	0.259	0.0472	0.0472	0.0539	0.0568
29	29	0.256	0.0008	0.0008	0.0010	0.0010	47	47	0.259	0.0525	0.0525	0.0601	0.0633
30	30	0.255	0.0016	0.0016	0.0019	0.0019	48	48	0.258	0.0501	0.0501	0.0573	0.0604
31	31	0.255	0.0023	0.0023	0.0028	0.0028	49	49	0.258	0.0499	0.0499	0.0570	0.0601
32	32	0.255	0.0041	0.0041	0.0049	0.0049	50	50	0.258	0.0505	0.0505	0.0578	0.0609
33	33	0.255	0.0007	0.0007	0.0008	0.0008	51	56	0.255	0.0188	0.0188	0.0215	0.0227
34	34	0.256	0.0003	0.0003	0.0003	0.0003	52	57	0.256	-0.0011	-0.0011	-0.0013	-0.0013
35	35	0.256	0.0000	0.0000	0.0000	0.0000	53	58	0.256	0.0000	0.0000	0.0000	0.0000
36	36	0.256	0.0004	0.0004	0.0005	0.0005	54	59	0.257	0.0040	0.0040	0.0045	0.0048
37	37	0.257	0.0031	0.0031	0.0037	0.0037	55	60	0.258	0.0162	0.0162	0.0185	0.0199
38	38	0.257	0.0135	0.0135	0.0155	0.0155							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 RE/METER ALL LE.GTH(METER) P(ATM) TT(DEG K) HT(JOULE/KG) H(M/HT) HAM/HT 1.000 RUN NO. 63
 2.2593E C6 2.1665E C6 0.914 1180.0 1.2599E 06 C.3048 1.000
 RE/FT RCL LENGTH(FT) PT(PST) TT(DEG R) HF(BTU/LBM) RS(FT) HAM/HT 1.000
 7.2216E C5 2.1665E C5 3.30 119.81 2134.8 541.79 1.0000 H/HS(L.000) H/HS(C.907) H/HS(O.874)

CHAN	T/C	HW/HT	Q/QS	H/HS(L.000)	H/HS(C.907)	H/HS(O.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(L.000)	H/HS(C.907)	H/HS(O.874)
56	71	0.250	-0.0002	-0.0002	-0.0002	-0.0002	66	81	0.253	0.0254	0.0254	0.0291	0.0306
57	72	0.250	-0.0007	-0.0009	-0.0009	-0.0009	67	82	0.254	0.0386	0.0386	0.0441	0.0465
58	73	0.250	-0.0002	-0.0002	-0.0002	-0.0002	68	83	0.255	0.0466	0.0466	0.0533	0.0561
59	74	0.250	0.0001	0.0001	0.0001	0.0001	69	84	0.256	0.0466	0.0466	0.0532	0.0561
60	75	0.251	0.0001	0.0001	0.0001	0.0001	70	85	0.257	0.0469	0.0469	0.0536	0.0565
61	76	0.251	-0.0000	-0.0001	-0.0001	-0.0001	71	86	0.257	0.0446	0.0446	0.0510	0.0537
62	77	0.251	0.0001	0.0001	0.0001	0.0001	72	87	0.257	0.0443	0.0443	0.0507	0.0534
63	78	0.251	-0.0000	-0.0000	-0.0000	-0.0000	73	88	0.258	0.0428	0.0428	0.0489	0.0515
64	79	0.252	0.0021	0.0024	0.0024	0.0025	74	89	0.259	0.0474	0.0474	0.0543	0.0572
65	80	0.252	0.0152	0.0173	0.0173	0.0183	75	90	0.258	0.0457	0.0457	0.0523	0.0551

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER PUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.3693E 06 2.1665E 06 0.914 8.15 11.86.C 1.2599E 06 0.3048 HAM/HT 1.000 TEST NO. 158
 MACH 5.10 7.2228E 05 2.1665E 06 3.000 119.81 2134.8 541.79 1.0000 RS(METER) HAM/HT 1.000 RUN NO. 63
 RS(METER) HAM/HT 1.000

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.967)	ST(O.874)	TIME(SEC)
56	71	313.4	564.2	-0.002	-0.002	11.706	10.315	-8.3089E-07	-8.7482E-07	-3.134
57	72	313.2	563.8	-0.009	-0.008	11.709	10.317	-3.2424E-06	-3.4138E-06	0.503
58	73	313.4	564.2	-0.002	-0.002	11.706	10.315	-9.1212E-07	-9.6035E-07	-0.317
59	74	313.8	564.8	0.002	0.002	11.702	10.311	6.4869E-07	6.8300E-07	3.941
60	75	314.2	565.5	0.001	0.001	11.696	10.306	4.6693E-07	4.9164E-07	2.483
61	76	314.7	566.4	-0.001	-0.000	11.690	10.300	-2.6187E-07	-2.1976E-07	-0.302
62	77	314.9	566.8	0.001	0.001	11.687	10.298	2.4666E-07	2.5973E-07	6.145
63	78	315.3	567.6	-0.000	-0.000	11.681	10.293	-8.1514E-08	-6.4775E-08	-9.765
64	79	316.2	569.1	0.022	0.022	11.670	10.283	9.3425E-06	9.8982E-06	0.921
65	80	316.6	569.8	0.177	0.156	11.665	10.278	6.7209E-05	7.0777E-05	0.411
66	81	317.7	571.8	0.196	0.261	11.650	10.265	1.1261E-04	1.1859E-04	-0.204
67	82	318.8	573.9	0.449	0.396	11.634	10.251	1.7093E-04	1.8003E-04	-0.301
68	83	320.4	576.8	0.541	0.477	11.613	10.233	2.0631E-04	2.1731E-04	-0.039
69	84	321.2	578.1	0.541	0.476	11.603	10.224	2.0626E-04	2.1728E-04	-0.039
70	85	322.2	579.9	0.344	0.479	11.590	10.212	2.0771E-04	2.1882E-04	-0.075
71	86	322.3	580.2	0.517	0.456	11.588	10.211	1.9753E-04	2.0810E-04	-0.051
72	87	322.8	581.0	0.513	0.452	11.582	10.205	1.9624E-04	2.0674E-04	-0.115
73	88	323.9	583.0	0.494	0.436	11.567	10.192	1.8593E-04	1.9945E-04	-0.079
74	89	324.8	584.6	0.448	0.483	11.555	10.181	2.1012E-04	2.2139E-04	-0.095
75	90	323.7	582.6	0.059	0.466	11.570	10.195	2.0258E-04	2.1343E-04	-0.150

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0351E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 15H
 RUN NO. 64
 MACH 2.10
 REL/METER 4.5599E 00
 LENGTH(MET.R) 14.41
 PT(ATM) 1123.7
 HT(JOULF/KG) 1.1874E 06
 MACH 5.10
 REL/FT 4.197E 06
 LENGTH(FT) 3.70
 PT(PSI) 2022.7
 HT(FTU/LBM) 510.61
 MACH/METER 1.000
 MACH/HT 1.000
 MACH/HT CONSTANT SET 22.1

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.263	0.0012	0.0013	0.0014	0.0014	11	11	0.269	0.153	0.1053	0.1206	0.1272
2	2	0.265	0.0050	0.0158	0.0061	0.0061	12	12	0.268	0.139	0.1039	0.1191	0.1255
3	3	0.267	0.0267	0.0306	0.0323	0.0323	13	13	0.268	0.1272	0.1272	0.1457	0.1536
4	4	0.267	0.0357	0.0409	0.0431	0.0431	14	14	0.268	0.1274	0.1274	0.1460	0.1540
5	5	0.267	0.0489	0.0561	0.0591	0.0591	15	15	0.268	0.1527	0.1527	0.1749	0.1844
6	6	0.268	0.0545	0.0625	0.0659	0.0659	16	16	0.263	-0.0010	-0.0010	-0.0012	-0.0012
7	7	0.268	0.0685	0.0785	0.0827	0.0827	17	17	0.263	-0.0014	-0.0014	-0.0017	-0.0017
8	8	0.269	0.0924	0.1058	0.1116	0.1116	18	18	0.264	-0.0011	-0.0011	-0.0013	-0.0014
9	9	0.269	0.0937	0.1074	0.1133	0.1133	19	19	0.265	0.0019	0.0019	0.0022	0.0023
10	10	0.269	0.0893	0.1023	0.1079	0.1079	20	20	0.265	0.0162	0.0162	0.0185	0.0195

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 64

MACH 5.10
REL RE/METER 4.197E 06
REL RE/FT 1.399E 06
MACH 5.10
REL RE/FT 4.197E 06
REL RE/FT 1.399E 06

CHAM	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	RS(METER)	RS(FT)	HAM/HT	ST10.874)	ST10.907)	TIME(SEC)
1	1	340.7	559.2	0.017	0.015	14.430	12.715	3.5772E-06	3.5772E-06	3.8757E-06	2.343	2.343	2.343
2	2	313.0	563.4	0.072	0.064	14.390	12.679	1.6137E-05	1.6137E-05	1.7011E-05	1.255	1.255	1.255
3	3	314.5	566.2	0.384	0.338	14.362	12.655	8.5715E-05	8.5715E-05	9.0367E-05	0.778	0.778	0.778
4	4	315.3	567.6	0.312	0.451	14.349	12.643	1.1439E-04	1.1439E-04	1.2060E-04	0.503	0.503	0.503
5	5	316.0	568.8	0.702	0.678	14.337	12.633	1.5694E-04	1.5694E-04	1.6547E-04	0.050	0.050	0.050
6	6	316.9	570.4	0.781	0.688	14.322	12.619	1.7485E-04	1.7485E-04	1.8437E-04	-0.200	-0.200	-0.200
7	7	316.8	570.2	0.981	0.864	14.323	12.621	2.1960E-04	2.1960E-04	2.3156E-04	-0.153	-0.153	-0.153
8	8	318.1	572.6	1.321	1.164	14.299	12.599	2.9619E-04	2.9619E-04	3.1234E-04	0.137	0.137	0.137
9	9	318.3	572.9	1.340	1.181	14.297	12.598	3.057E-04	3.057E-04	3.1697E-04	0.183	0.183	0.183
10	10	318.3	572.9	1.277	1.125	14.297	12.597	2.8642E-04	2.8642E-04	3.0205E-04	2.184	2.184	2.184
11	11	318.4	573.1	1.515	1.326	14.294	12.625	3.1763E-04	3.1763E-04	3.5136E-04	0.614	0.614	0.614
12	12	316.5	569.7	1.489	1.312	14.322	12.619	4.781E-04	4.781E-04	4.3001E-04	0.301	0.301	0.301
13	13	316.9	570.4	1.821	1.605	14.315	12.613	4.0860E-04	4.0860E-04	4.3092E-04	0.334	0.334	0.334
14	14	317.2	571.0	1.824	1.607	14.315	12.613	4.8557E-04	4.8557E-04	5.1622E-04	0.372	0.372	0.372
15	15	316.7	570.0	2.187	1.927	14.325	12.622	-3.3175E-06	-3.3175E-06	-3.4966E-06	-0.113	-0.113	-0.113
16	16	310.7	559.3	-0.015	-0.013	14.430	12.715	-4.6768E-06	-4.6768E-06	-4.8766E-06	0.434	0.434	0.434
17	17	310.9	559.7	-0.021	-0.018	14.426	12.711	-3.6843E-06	-3.6843E-06	-3.8796E-06	-0.018	-0.018	-0.018
18	18	312.6	562.6	-0.117	-0.015	14.397	12.686	6.3478E-06	6.3478E-06	6.3542E-06	1.606	1.606	1.606
19	19	312.8	563.0	0.027	0.024	14.394	12.683	5.1853E-05	5.1853E-05	5.4665E-05	0.821	0.821	0.821
20	20	313.7	564.6	0.233	0.205	14.378	12.669						

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7492E-01 (SLUGS/FT2-SEC)

PROB NC. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH	RE/METER	REL	Q/QS	H/HS(I.000)	H/HS(I.907)	H/HS(I.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(I.000)	H/HS(I.907)	H/HS(I.874)
5.1	4.3517E 06	3.9792E 06	0.0523	0.0525	0.0598	0.0630	39	39	0.259	0.0295	0.0295	0.0337	0.0355
M. H	RE/FT	REL	0.0597	0.0597	0.0683	0.0720	40	40	0.261	0.0300	0.0300	0.0343	0.0362
3.1	1.3264E 06	3.9792E 06	0.0474	0.0474	0.0542	0.0572	41	41	0.260	0.0516	0.0516	0.0590	0.0621
			0.0339	0.0339	0.0380	0.0409	42	42	0.261	0.0577	0.0577	0.0660	0.0695
			0.0141	0.0141	0.0161	0.0170	43	43	0.262	0.0673	0.0673	0.0770	0.0811
			0.0030	0.0030	0.0037	0.0037	44	44	0.262	0.0661	0.0661	0.0757	0.0797
			0.0002	0.0002	0.0002	0.0002	45	45	0.261	0.0679	0.0679	0.0777	0.0819
			0.0005	0.0005	0.0006	0.0006	46	46	0.261	0.0704	0.0704	0.0805	0.0848
			0.0011	0.0011	0.0013	0.0014	47	47	0.261	0.0839	0.0839	0.0960	0.1012
			0.0018	0.0018	0.0021	0.0022	48	48	0.260	0.0905	0.0905	0.1036	0.1091
			0.0028	0.0028	0.0031	0.0033	49	49	0.261	0.1020	0.1020	0.1167	0.1230
			0.0046	0.0046	0.0052	0.0055	50	50	0.260	0.1217	0.1217	0.1392	0.1466
			0.0007	0.0007	0.0008	0.0009	51	56	0.255	0.0020	0.0020	0.0022	0.0024
			0.0004	0.0004	0.0005	0.0005	52	57	0.256	-0.0011	-0.0011	-0.0012	-0.0013
			0.0001	0.0001	0.0001	0.0002	53	58	0.256	-0.0002	-0.0002	-0.0002	-0.0002
			0.0005	0.0005	0.0006	0.0006	54	59	0.259	0.0049	0.0049	0.0056	0.0059
			0.0041	0.0041	0.0046	0.0049	55	60	0.260	0.0220	0.0220	0.0252	0.0266
			0.0177	0.0177	0.0202	0.0213							

TEST NO. 158
 RUN NO. 64
 RS(METER) C.3048
 RS(FT) 1.0000
 HAM/HT 1.0000
 HAM/HT 1.0000

TT(159.7) 1.2292E C6
 TT(2087.4) 528.58

PT(ATM) 14.41
 PT(PSI) 211.83

HT(JOULE/KG) 1.2292E C6
 HT(BTU/LBM) 528.58

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA TEST NO. 158
 MACH 5.11 4.3517E 06 2.9792E 06 REL LENGTH(METER) PTI(ATP) TT(DEG K) HT(JOULE/KG) PS(METER) HAM/HT RUN NO. 64
 MACH 5.10 1.5264E 06 2.9792E 06 REL LENGTH(FT) P(TPSI) TT(DEG R) HT(LBTU/LBM) RS(FT) HAM/HT RUN NO. 64

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(HTU/FT2-SEC)	Q(SI(W/CM2))	Q(SI(HTU/FT2-SFC))	ST(C.907)	ST(O.874)	TIME(SEC)
21	21	318.9	574.0	0.783	0.230	14.969	13.190	1.7142E-04	1.8662E-04	-0.048
22	22	321.7	579.2	0.791	0.785	14.919	13.146	1.9579E-04	2.0636E-04	0.072
23	23	320.3	576.5	0.709	0.624	14.945	13.168	1.5537E-04	1.6374E-04	-0.067
24	24	319.3	574.8	0.707	0.447	14.961	13.183	1.1112E-04	1.1710E-04	0.166
25	25	318.5	573.4	0.714	0.186	14.975	13.195	4.5253E-05	4.8740E-05	0.853
26	26	317.9	571.1	0.746	0.040	14.997	13.214	9.9906E-06	1.0527E-05	1.132
27	27	315.8	568.4	0.703	0.003	15.024	13.238	6.2669E-07	6.7080E-07	5.170
28	28	314.7	566.5	0.708	0.007	15.043	13.255	-1.6570E-06	-1.7457E-06	-1.144
29	29	312.9	563.2	0.717	0.015	15.075	13.283	-3.7552E-06	-3.9556E-06	-0.470
30	30	312.3	562.1	0.727	0.024	15.086	13.293	-5.8896E-06	-6.2036E-06	-0.096
31	31	311.3	560.4	0.742	0.037	15.102	13.307	-9.268E-06	-9.5076E-06	0.066
32	32	311.3	560.4	0.759	0.061	15.103	13.307	-1.5042E-05	-1.5843E-05	0.036
33	33	312.5	562.5	0.711	0.010	15.082	13.289	-2.4359E-06	-2.5658E-06	-0.550
34	34	313.8	564.9	0.706	0.006	15.058	13.269	-1.3728E-06	-1.4462E-06	-1.190
35	35	314.3	565.8	0.702	0.002	15.049	13.261	-4.0623E-07	-4.3006E-07	-3.644
36	36	315.6	568.2	0.707	0.007	15.026	13.240	1.6337E-06	1.7212E-06	1.706
37	37	316.7	570.1	0.661	0.054	15.007	13.223	1.3318E-05	1.4033E-05	0.907
38	38	317.6	571.6	0.665	0.233	14.992	13.210	5.7902E-05	6.1011E-05	0.666
39	39	317.0	570.6	0.642	0.389	14.992	13.219	9.6514E-05	1.0169E-04	0.234
40	40	318.9	574.0	0.649	0.396	14.968	13.189	9.8293E-05	1.0358E-04	-0.173
41	41	318.2	572.8	0.773	0.681	14.981	13.200	1.5899E-04	1.7807E-04	-0.189
42	42	319.8	575.6	0.822	0.760	14.953	13.175	1.8904E-04	1.9922E-04	-0.125
43	43	320.5	576.9	1.005	0.886	14.940	13.164	2.2051E-04	2.3240E-04	0.110
44	44	320.4	576.7	0.988	0.871	14.943	13.166	2.1689E-04	2.2849E-04	0.126
45	45	319.5	575.1	1.016	0.895	14.958	13.180	2.258E-04	2.3457E-04	0.121
46	46	319.2	574.5	1.053	0.928	14.964	13.185	2.3064E-04	2.4305E-04	0.141
47	47	319.6	575.2	1.255	1.106	14.957	13.179	2.7506E-04	2.8987E-04	0.179
48	48	318.7	573.7	1.356	1.194	14.972	13.192	2.9673E-04	3.1268E-04	0.220
49	49	318.9	574.1	1.527	1.345	14.968	13.189	3.3429E-04	3.5228E-04	0.254
50	50	317.9	572.2	1.824	1.607	14.986	13.205	3.9877E-04	4.2020E-04	0.283
51	51	311.6	560.8	0.030	0.026	15.098	13.304	6.4247E-06	6.7670E-06	2.257
52	52	313.1	563.5	0.016	-0.014	15.072	13.280	-3.5145E-06	-3.7021E-06	-0.264
53	53	313.6	564.4	0.002	-0.002	15.063	13.273	-5.3632E-07	-5.6497E-07	-4.909
54	54	317.1	570.7	0.073	0.064	15.061	13.218	1.5916E-05	1.6770E-05	3.944
55	55	318.0	572.4	0.330	0.291	14.985	13.204	7.2254E-05	7.6136E-05	0.682

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6600E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CENTER MCFETT FIELD CALIF. *** PRELIMINARY DATA ***				TEST NO.	158
REL LENGTH(METER)				PS(METER)	H/W/HT
5.10	4.1825E 00	3.8245E 00	0.914	0.3048	1.000
REL LENGTH(FT)				RS(FT)	H/W/HT
5.10	1.2749E 05	3.8245E 06	3.000	1.0000	1.000
RESEARCH CENTER MCFETT FIELD CALIF. *** PRELIMINARY DATA ***					
PT(ATM)				HT(JOULE/KG)	TEST NO.
14.41				1.2611E 06	64
PT(PSI)				HT(BTU/LBM)	
211.83				542.32	
CHAN	T/C	Q/QS	H/HS(0.907)	H/HS(0.907)	H/HS(0.874)
56	71	0.0002	0.0002	0.0314	0.0359
57	72	0.0000	0.0000	0.0502	0.0605
58	73	0.0002	0.0002	0.0621	0.0749
59	74	0.0003	0.0003	0.0634	0.0764
60	75	0.0001	0.0001	0.0676	0.0815
61	76	0.0004	0.0004	0.0653	0.0788
62	77	0.0006	0.0006	0.0710	0.0857
63	78	0.0003	0.0003	0.0718	0.0866
64	79	0.0027	0.0032	0.0915	0.1105
65	80	0.0207	0.0249	0.1043	0.1259
CHAN	T/C	Q/QS	H/HS(0.874)	HW/HT	Q/QS
66	81	0.256	0.0314	0.257	0.0314
67	82	0.257	0.0302	0.259	0.0302
68	83	0.260	0.0634	0.260	0.0634
69	84	0.262	0.0676	0.262	0.0676
70	85	0.262	0.0653	0.262	0.0653
71	86	0.262	0.0710	0.262	0.0710
72	87	0.264	0.0718	0.264	0.0718
73	88	0.265	0.0915	0.265	0.0915
74	89	0.264	0.1043	0.264	0.1043
75	90	0.264	0.1043	0.264	0.1043

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 4.1935E J6 3.8245E G6 3.8245E G6 3.8245E G6
 MACH 5.10 1.2744E J6 3.8245E G6 3.8245E G6 3.8245E G6

R (/METER) 314.1 313.5 313.9 314.6 315.2 316.2 316.4 317.2 317.2 318.1 319.3 319.9 320.9 323.0 325.2 326.7 328.5 329.0 329.5 331.2 333.2 331.5
 REL LENGTH(METER) 3.8245E G6
 REL LENGTH(FT) 3.8245E G6

CHAN	T/C	TM (DEG K)	TM (DEG K)	U (W/CM2)	Q (BTU/FT2-SEC)	US (M/CM2)	QS (BTU/FT2-S-C)	STIC (907)	STIC (874)	TIME (SEC)
56	71	314.1	563.3	0.000	0.000	15.574	13.723	7.3324E-07	7.7204E-07	6.641
57	72	313.5	564.3	-0.000	-0.000	15.584	13.732	-2.2822E-08	-2.4029E-08	.....
58	73	313.9	565.0	-0.003	-0.003	15.577	13.725	-6.1845E-07	-6.5116E-07	-1.423
59	74	314.6	566.3	-0.005	-0.004	15.564	13.714	-1.3085E-06	-1.0619E-06	-0.507
50	75	315.2	567.4	-0.001	-0.001	15.554	13.705	-2.0643E-07	-2.1741E-07	-8.496
61	76	316.2	569.2	-0.006	-0.006	15.536	13.689	-1.3929E-06	-1.4668E-06	-0.711
62	77	316.4	569.6	-0.000	-0.000	15.533	13.686	-2.0828E-06	-2.1923E-06	-0.199
63	78	317.2	571.0	-0.005	-0.005	15.519	13.674	-1.1178E-06	-1.1772E-06	-1.006
64	79	318.1	572.7	0.042	0.037	15.502	13.659	8.9624E-06	9.4400E-06	1.104
65	80	319.3	574.8	0.321	0.283	15.481	13.641	6.9061E-05	7.2739E-05	0.445
66	81	319.9	577.7	0.486	0.428	15.453	13.616	1.0469E-04	1.1028E-04	-0.353
67	82	323.0	581.5	0.774	0.682	15.415	13.583	1.6731E-04	1.7626E-04	-0.393
68	83	325.2	585.4	0.950	0.842	15.377	13.549	2.0713E-04	2.1825E-04	-0.108
69	84	326.7	588.0	0.976	0.858	15.351	13.526	2.1142E-04	2.2278E-04	-0.088
70	85	328.5	591.4	1.046	0.881	15.318	13.497	2.2545E-04	2.3755E-04	-0.089
71	86	329.0	592.2	1.000	0.881	15.310	13.490	2.1777E-04	2.2951E-04	-0.110
72	87	329.5	593.2	1.087	0.958	15.301	13.482	2.3686E-04	2.4964E-04	-0.148
73	88	331.2	597.2	1.096	0.966	15.261	13.447	2.3946E-04	2.5241E-04	-0.129
74	89	333.2	599.8	1.094	0.929	15.236	13.425	3.0519E-04	3.2173E-04	-0.123
75	90	331.5	596.6	1.093	1.403	15.267	13.452	3.4783E-04	3.6665E-04	-0.140

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.5926E-01 (SLUGS/FT2-SEC)

PIRE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.1 R./METER 1.3679E 06 H/HS(1.000) H/HS(0.907) H/HS(0.874)

MACH 5.1 RE/FT 1.3679E 06 H/HS(1.000) H/HS(0.907) H/HS(0.874)

TEST NO. 158

RUN NO. 65

CONSTANT SET 22/

RS(METER) 0.3048

RS(FT) 1.0000

HT(JOULE/KG) 1.1635E 06

HT(BTU/LBM) 501.21

TT(DEG K) 1104.8

TT(DEG R) 1988.7

PI(ATM) 4.856

PI(PST) 67.09

LENGTH(FT) 3.000

LENGTH(FT) 3.000

CHAM T/C CHAN T/C

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.267	0.025	0.029	0.032	0.032
2	2	0.267	0.028	0.046	0.046	0.046
3	3	0.268	0.041	0.071	0.071	0.071
4	4	0.268	0.043	0.049	0.049	0.049
5	5	0.268	0.053	0.061	0.061	0.061
6	6	0.269	0.062	0.071	0.071	0.071
7	7	0.269	0.079	0.091	0.091	0.091
8	8	0.269	0.083	0.085	0.085	0.085
9	9	0.269	0.077	0.074	0.074	0.074
10	10	0.269	0.063	0.074	0.074	0.074

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** MULTIRUN DATA ***

CHAN	T/C	TH(DEC K)	TW(DEC P)	Q(W/C^2)	G(BTU/FT2-SEC)	US(M/CM2)	US(BTU/FT2-S C)	ST(C/CM2)	ST(C/CM2)	TIME(SEC)
1	1	319.6	557.3	0.431	0.018	7.920	6.987	1.5129E-05	1.5129E-05	-0.082
2	2	310.4	558.7	0.431	0.089	7.923	6.980	7.5827E-05	7.5827E-05	-0.340
3	3	310.9	559.6	0.425	0.287	7.917	6.976	2.4334E-04	2.4334E-04	-0.180
4	4	311.2	560.2	0.422	0.301	7.914	6.973	2.5335E-04	2.5335E-04	-0.705
5	5	311.3	560.3	0.422	0.371	7.913	6.972	3.1422E-04	3.1422E-04	-1.153
6	6	311.6	560.9	0.493	0.433	7.910	6.970	3.5099E-04	3.5099E-04	-0.948
7	7	311.6	561.0	0.521	0.556	7.910	6.969	4.4511E-04	4.4511E-04	-0.446
8	8	312.0	561.7	0.566	0.587	7.906	6.966	4.7433E-04	4.7433E-04	0.133
9	9	312.0	561.6	0.591	0.521	7.906	6.966	4.0437E-04	4.0437E-04	0.124
10	10	311.7	561.0	0.521	0.441	7.909	6.969	3.5594E-04	3.5594E-04	0.093
11	11	311.6	560.8	0.489	0.431	7.911	6.971	3.4803E-04	3.4803E-04	0.048
12	12	311.2	560.5	0.485	0.428	7.911	6.971	3.4424E-04	3.4424E-04	0.102
13	13	311.5	560.4	0.461	0.406	7.914	6.972	3.4545E-04	3.4545E-04	0.109
14	14	311.2	560.2	0.432	0.381	7.913	6.973	3.3759E-04	3.3759E-04	0.102
15	15	311.3	560.3	0.453	0.399	7.913	6.973	3.4235E-04	3.4235E-04	0.109
16	16	309.0	556.3	-0.003	-0.002	7.936	6.992	-2.2234E-04	-2.2234E-04	2.184
17	17	309.1	556.4	-0.004	-0.003	7.935	6.991	-1.7935E-05	-1.7935E-05	2.160
18	18	309.9	557.8	0.114	0.002	7.927	6.985	-2.5950E-06	-2.5950E-06	-0.831
19	19	311.4	558.7	0.180	0.071	7.922	6.981	9.9893E-06	9.9893E-06	0.288
20	20	310.8	559.4	0.175	0.243	7.918	6.977	1.9365E-04	1.9365E-04	-0.233

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.02026E-01 (SLUGS/FT2-SEC)

PROBE NO. =

TEST NO. 158

RUN NO. 05

PSI(FT)

PSI(FT)

HI(JOULE/KG)

HI(JOULE/KG)

PT(PSI)

PT(PSI)

REL LENGTH(METER)

REL LENGTH(METER)

REL LENGTH(FT)

REL LENGTH(FT)

REL LENGTH(FT)

REL LENGTH(FT)

REL LENGTH(FT)

REL LENGTH(FT)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. PRELIMINARY DATA *** TEST NO. 158
 MACH 5.17 RE/METER REL LENGTH(METER) PT(ATM) TT(DEC K) HT(JOULE/KG) HS(METER) HAM/HT
 1.4419E 10 1.3185E 06 0.314 4.56 1129.1 1.1937E 06 0.3048 1.000
 MACH 5.12 RE/FT REL LENGTH(FT) PT(PSI) TT(DEC R) KT(BTU/LBM) RS(FT) HAM/HT
 4.3395E 05 1.3185E 06 3.100 67.09 2032.5 513.11 1.0000 1.000

CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	0.263	0.0000	0.0000	0.0000	0.0000	39	39	0.263	0.0510	0.0510	0.0583	0.0615
22	22	0.263	0.0000	0.0000	0.0000	0.0000	40	40	0.263	0.0510	0.0510	0.0583	0.0615
23	23	0.263	0.0000	0.0000	0.0000	0.0000	41	41	0.263	0.0510	0.0510	0.0583	0.0615
24	24	0.263	0.0000	0.0000	0.0000	0.0000	42	42	0.263	0.0510	0.0510	0.0583	0.0615
25	25	0.263	0.0000	0.0000	0.0000	0.0000	43	43	0.263	0.0510	0.0510	0.0583	0.0615
26	26	0.263	0.0000	0.0000	0.0000	0.0000	44	44	0.263	0.0510	0.0510	0.0583	0.0615
27	27	0.263	0.0000	0.0000	0.0000	0.0000	45	45	0.263	0.0510	0.0510	0.0583	0.0615
28	28	0.263	0.0000	0.0000	0.0000	0.0000	46	46	0.263	0.0510	0.0510	0.0583	0.0615
29	29	0.263	0.0000	0.0000	0.0000	0.0000	47	47	0.263	0.0510	0.0510	0.0583	0.0615
30	30	0.263	0.0000	0.0000	0.0000	0.0000	48	48	0.263	0.0510	0.0510	0.0583	0.0615
31	31	0.263	0.0000	0.0000	0.0000	0.0000	49	49	0.263	0.0510	0.0510	0.0583	0.0615
32	32	0.263	0.0000	0.0000	0.0000	0.0000	50	50	0.263	0.0510	0.0510	0.0583	0.0615
33	33	0.263	0.0000	0.0000	0.0000	0.0000	51	51	0.263	0.0510	0.0510	0.0583	0.0615
34	34	0.263	0.0000	0.0000	0.0000	0.0000	52	52	0.263	0.0510	0.0510	0.0583	0.0615
35	35	0.263	0.0000	0.0000	0.0000	0.0000	53	53	0.263	0.0510	0.0510	0.0583	0.0615
36	36	0.263	0.0000	0.0000	0.0000	0.0000	54	54	0.263	0.0510	0.0510	0.0583	0.0615
37	37	0.263	0.0000	0.0000	0.0000	0.0000	55	55	0.263	0.0510	0.0510	0.0583	0.0615
38	38	0.263	0.0000	0.0000	0.0000	0.0000	56	56	0.263	0.0510	0.0510	0.0583	0.0615

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.10 RE/MYER REL TWIDEG K) TM(DEG K) Q(M/CM2) Q(BTU/FT2-SEC) Q5(M/CM2) Q5(BTU/FT2-SEC) STIU(907) STIU(874) TIME(SEC)
 MACH 5.10 1.4419E 06 1.3185E 06 0.914 4.56 1129.1 1.977E 06 0.3048 1.000 HAM/HT TEST NO. 158
 MACH 5.10 4.3955E 05 1.3185E 06 3.000 67.09 2032.5 513.21 1.000C HAM/HT RUN NO. 65

CHAN	T/C	TM(DEG K)	TWIDEG K)	Q(M/CM2)	Q(BTU/FT2-SEC)	Q5(M/CM2)	Q5(BTU/FT2-SEC)	STIU(907)	STIU(874)	TIME(SEC)
21	21	312.3	562.2	0.354	0.311	8.163	7.192	2.4747E-04	2.6583E-04	0.028
22	22	313.1	563.7	0.354	0.324	8.155	7.185	1.7842E-04	1.9785E-04	0.002
23	23	312.4	562.3	0.455	0.436	8.162	7.192	1.0630E-04	1.1415E-04	-0.257
24	24	312.3	562.1	0.406	0.392	8.163	7.193	7.3934E-05	7.7946E-05	-0.502
25	25	311.9	561.4	0.46	0.441	8.167	7.196	5.2327E-05	3.4067E-05	-0.730
26	26	311.6	560.9	0.515	0.493	8.170	7.199	1.2363E-05	1.0922E-05	-0.560
27	27	311.2	560.1	0.594	0.502	8.174	7.203	2.5130E-06	2.5485E-06	-2.245
28	28	310.9	559.6	0.672	0.502	8.177	7.205	1.3436E-06	1.3436E-06	-1.172
29	29	310.6	559.1	0.761	0.501	8.181	7.207	-1.0047E-05	-1.0588E-05	2.101
30	30	310.3	558.6	0.85	0.505	8.183	7.210	-3.8244E-06	-4.0307E-06	0.899
31	31	310.1	558.2	0.907	0.507	8.185	7.212	-5.1794E-06	-5.4582E-06	0.569
32	32	310.2	558.4	0.916	0.514	8.184	7.211	-1.1052E-05	-1.1647E-05	0.630
33	33	310.4	558.8	0.900	0.500	8.182	7.209	2.2562E-07	2.3777E-07	-5.079
34	34	310.8	559.4	0.902	0.502	8.178	7.204	1.6762E-06	1.7665E-06	-1.098
35	35	310.9	559.7	0.909	0.508	8.177	7.205	6.4945E-06	6.0444E-06	0.006
36	36	311.5	560.6	0.718	0.616	8.172	7.200	1.2621E-05	1.3302E-05	-0.026
37	37	311.9	561.4	0.600	0.508	8.167	7.196	5.4205E-05	5.7145E-05	0.369
38	38	312.2	562.0	0.476	0.367	8.164	7.193	2.1027E-04	2.2162E-04	0.218
39	39	312.7	562.9	0.471	0.342	8.165	7.194	4.9125E-04	3.0692E-04	-0.216
40	40	312.8	563.0	0.416	0.367	8.159	7.189	3.7020E-04	3.4804E-04	-0.356
41	41	313.3	564.3	0.415	0.342	8.159	7.189	4.3098E-04	4.5626E-04	-0.207
42	42	313.5	564.3	0.587	0.573	8.153	7.184	4.5627E-04	4.8095E-04	-0.098
43	43	313.5	564.2	0.551	0.512	8.151	7.182	4.5627E-04	4.8095E-04	0.184
44	44	313.4	564.2	0.581	0.512	8.152	7.183	4.7344E-04	4.2116E-04	0.182
45	45	313.0	563.3	0.511	0.450	8.157	7.187	3.5793E-04	3.7777E-04	0.167
46	46	312.9	563.3	0.470	0.414	8.157	7.187	3.2914E-04	3.4672E-04	0.162
47	47	312.9	563.3	0.489	0.431	8.157	7.187	3.4237E-04	3.6094E-04	0.162
48	48	312.6	562.7	0.449	0.395	8.160	7.190	3.1415E-04	3.3112E-04	0.156
49	49	312.6	562.6	0.434	0.382	8.163	7.193	3.0610E-04	3.2644E-04	0.145
50	50	312.3	562.1	0.434	0.382	8.163	7.193	2.6375E-04	3.2010E-04	0.122
51	51	310.5	558.9	0.507	0.406	8.181	7.209	-4.7367E-06	-4.9918E-06	0.732
52	52	310.9	559.6	0.509	0.409	8.177	7.205	-3.1811E-06	-3.3525E-06	1.601
53	53	310.0	559.7	0.510	0.409	8.176	7.205	7.1724E-06	7.5589E-06	0.104
54	54	312.4	562.2	0.492	0.461	8.165	7.192	6.4266E-05	6.7736E-05	0.357
55	55	312.7	562.9	0.423	0.385	8.159	7.189	2.2617E-04	2.3839E-04	0.085

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.1831E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***														
MACH		RE/METER	REL	LENGTH(MET/PT)	PT(ATM)	TT(DLG K)	MT(JOULE/KG)	XS(METER)	HAM/HT	TEST NO.	H/MS(1.000) H/MS(0.907) H/MS(0.874)			
5.10	5.10	1.2735E 06	1.2735E 06	U.914	4.56	1152.5	22.9E 06	C.2048	1.000	158	0.1084	0.1304	0.1374	0.1124
MACH	5.10	4.2422E 05	1.2735E 06	LENGTH(FT)	PT(P/SI)	TT(DEC RI)	MT(BTU/LBM)	RS(FT)	HAM/HT	RUN NO.	0.0910	0.1066	0.0959	0.0865
				3.110	67.39	2074.5	524.99	1.0000	1.0000		0.0718	0.0640	0.0732	0.0771
CHAN	T/C	Q/QS	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	MM/HT	Q/QS		0.0713	0.0659	0.0736	0.0703
55	71	0.0002	0.0002	0.0002	0.0002	66	81	0.258	0.0948		0.1084	0.1304	0.1374	0.1143
57	72	-0.0001	-0.0001	-0.0001	-0.0001	67	82	0.259	0.1140		0.1304	0.1066	0.1124	0.1143
58	73	0.0000	0.0000	0.0000	0.0000	68	83	0.259	0.0932		0.1066	0.1066	0.0959	0.1124
59	74	-0.0002	-0.0002	-0.0002	-0.0002	69	84	0.259	0.0796		0.0910	0.1066	0.0959	0.0865
50	75	0.0006	0.0006	0.0006	0.0006	70	85	0.260	0.0718		0.0821	0.0640	0.0771	0.0865
61	76	0.0018	0.0018	0.0018	0.0018	71	86	0.259	0.0640		0.0732	0.0640	0.0771	0.0771
62	77	0.0033	0.0033	0.0033	0.0033	72	87	0.260	0.0623		0.0713	0.0659	0.0751	0.0751
63	78	0.0084	0.0084	0.0084	0.0101	73	88	0.260	0.0576		0.0576	0.0659	0.0694	0.0694
64	79	0.0175	0.0175	0.0207	0.0210	74	89	0.261	0.0610		0.0610	0.0698	0.0736	0.0736
65	80	0.0764	0.0764	0.0874	0.0920	75	90	0.260	0.0583		0.0583	0.0667	0.0703	0.0703

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	REF/METER	REL	REL	REL	REL	REL	REL	REL	REL	
5.1	1.3928E 06	1.2736E 06	1.2735E 06	1.2736E 06	1.2735E 06	1.2736E 06	1.2735E 06	1.2736E 06	1.2735E 06	
5.1	REF/FT	REF/FT	REF/FT	REF/FT	REF/FT	REF/FT	REF/FT	REF/FT	REF/FT	
5.1	2452E 05	2735E 06	3.000	3.000	3.000	3.000	3.000	3.000	3.000	
CHAM	T/C	TM(DEG K)	TM(DEG R)	Q1W/CM2	Q1BTU/FT2-SEC	QS(W/CM2)	QS(BTU/FT2-S2C)	ST10.9071	ST10.8741	TIME(SEC)
66	71	310.3	558.6	0.000	0.000	8.433	7.430	1.1083E-06	1.1674E-06	4.948
67	72	310.4	558.7	-0.000	-0.000	8.432	7.430	-3.3305E-07	-3.5081E-07	-5.820
68	73	310.5	559.0	0.000	0.000	8.431	7.429	1.4845E-07	1.5637E-07	2.143
69	74	310.8	559.4	-0.002	-0.002	8.428	7.428	-1.3673E-06	-1.4402E-06	3.177
70	75	311.2	560.2	0.005	0.004	8.424	7.423	3.4736E-06	3.6591E-06	-1.414
71	76	311.5	560.8	0.014	0.013	8.421	7.420	1.0198E-05	1.0743E-05	-0.773
72	77	311.7	561.1	0.028	0.025	8.419	7.418	1.9246E-05	2.0275E-05	-0.515
73	78	312.1	561.9	0.070	0.062	8.415	7.414	4.8532E-05	5.1126E-05	-0.185
74	79	312.0	563.1	0.147	0.129	8.408	7.406	1.0129E-04	1.0671E-04	0.043
75	80	313.1	563.6	0.344	0.256	8.405	7.406	4.4285E-04	4.6655E-04	0.017
76	81	313.9	565.0	0.796	0.702	8.397	7.399	5.4576E-04	5.7922E-04	-0.449
77	82	314.5	566.0	0.957	0.843	8.392	7.394	6.6087E-04	6.9631E-04	-0.058
78	83	315.1	567.1	0.782	0.689	8.386	7.389	5.4052E-04	5.6954E-04	0.073
79	84	315.2	567.4	0.567	0.588	8.384	7.387	4.6127E-04	4.8604E-04	0.074
80	85	315.5	568.0	0.401	0.450	8.381	7.385	4.1598E-04	4.3832E-04	0.046
81	86	315.4	567.8	0.536	0.473	8.382	7.386	3.7095E-04	3.9088E-04	0.074
82	87	315.7	568.2	0.522	0.460	8.380	7.383	3.6126E-04	3.8067E-04	0.095
83	88	316.3	569.4	0.482	0.425	8.373	7.378	3.3394E-04	3.5190E-04	0.070
84	89	316.8	570.2	0.511	0.450	8.369	7.374	3.5380E-04	3.7283E-04	0.042
85	90	316.0	568.8	0.439	0.431	8.376	7.381	3.3825E-04	3.5644E-04	0.032

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1649E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA												
MACH	REL LENGTH	REL LENGTH	PI(ATH)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.	153			
5.10	2.3622E 06	0.514	0.48	1.23.7	1.1874E 06	0.3048	1.000	RUN NO.	65			
MACH	REL LENGTH	PI(PSI)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	HAM/HT	CONSTANT	SHEET	22/			
5.10	2.3622E 06	3.00	20.07	510.51	1.0000	1.000						
CHAN	T/C	Q/QS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)	CHAN	T/C	MM/HT	Q/QS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)
1	1	0.261	0.0031	0.0035	0.0037	11	11	0.264	0.0540	0.0540	0.0619	0.0652
2	2	0.262	0.0183	0.0210	0.0221	12	12	0.262	0.0561	0.0561	0.0642	0.0676
3	3	0.263	0.0446	0.0511	0.0539	13	13	0.264	0.0513	0.0513	0.0587	0.0619
4	4	0.264	0.0364	0.0416	0.0439	14	14	0.264	0.0477	0.0477	0.0546	0.0576
5	5	0.264	0.0355	0.0406	0.0428	15	15	0.264	0.0507	0.0507	0.0580	0.0612
6	6	0.264	0.0474	0.0543	0.0572	16	16	0.261	-0.0001	-0.0001	-0.0001	-0.0001
7	7	0.264	0.0741	0.0846	0.0894	17	17	0.261	-0.0002	-0.0002	-0.0002	-0.0002
8	8	0.265	0.0813	0.0931	0.0981	18	18	0.262	0.0021	0.0021	0.0024	0.0025
9	9	0.265	0.0690	0.0790	0.0833	19	19	0.262	0.0140	0.0140	0.0160	0.0169
10	10	0.264	0.0557	0.0637	0.0672	20	20	0.263	0.0375	0.0375	0.0430	0.0453

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.10 RE/METER 2.3822E 06 REL LENGTH(METER) PT(ATM) TT(D.G.K) HI(FOULE/KG) RS(METER) HAM/MT TEST NO. 158
 MACH 5.10 RE/FT 7.9407E 05 REL LENGTH(FT) PT(PSI) TT(DEG R) HI(BTU/LBM) RS(FT) HAM/MT RUN NO. 66
 MACH 5.10 RE/CM 2.3822E 06 REL LENGTH(CM) PT(P) TT(DEG R) HI(BTU/LBM) RS(CM) HAM/MT RUN NO. 66

CHAN	T/C	TM(DEG K)	TM(DEG R)	QI(W/CM2)	QB(TU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	SY(J-907)	SI(O-674)	TIME(SEC)
1	1	308.8	555.9	0.734	0.330	10.897	9.602	1.3132E-05	1.3840E-05	-1.026
2	2	310.2	558.3	0.199	0.176	10.879	9.586	7.7984E-05	8.2192E-05	0.224
3	3	311.1	559.9	0.485	0.428	10.867	9.575	1.4992E-04	2.0017E-04	-0.688
4	4	311.6	560.8	0.395	0.348	10.860	9.569	1.5480E-04	1.6317E-04	-1.965
5	5	311.8	561.3	0.395	0.340	10.857	9.566	1.5098E-04	1.5915E-04	-3.506
6	6	312.3	562.2	0.515	0.453	10.850	9.560	4.0475E-04	2.1267E-04	-2.350
7	7	312.4	562.3	0.804	0.708	10.849	9.559	3.1511E-04	3.3216E-04	-0.906
8	8	312.9	563.3	0.982	0.777	10.842	9.553	3.402E-04	3.6476E-04	-0.014
9	9	312.9	563.2	0.748	0.660	10.842	9.553	2.9370E-04	3.0960E-04	-0.035
10	10	312.5	562.5	0.504	0.532	10.848	9.558	2.3687E-04	2.4969E-04	-0.088
11	11	312.4	562.3	0.586	0.517	10.849	9.560	2.2987E-04	2.4237E-04	0.449
12	12	310.1	558.1	0.610	0.538	10.880	9.587	2.3858E-04	2.5145E-04	-0.065
13	13	311.7	561.1	0.557	0.491	10.858	9.567	2.1631E-04	2.3011E-04	-0.060
14	14	311.7	561.1	0.518	0.456	10.858	9.567	2.0296E-04	2.1394E-04	-0.065
15	15	311.8	561.2	0.551	0.485	10.850	9.567	2.1575E-04	2.2742E-04	-0.060
16	16	308.2	558.6	-0.001	-0.001	10.904	9.608	-2.9411E-07	-3.0994E-07	9.871
17	17	308.3	558.9	-0.002	-0.002	10.904	9.608	-8.9533E-07	-9.4353E-07	3.097
18	18	309.5	557.1	0.023	0.020	10.887	9.593	8.9495E-06	9.4319E-06	-1.694
19	19	310.2	558.3	0.153	0.134	10.878	9.585	5.4029E-05	6.2847E-05	0.166
20	20	310.6	559.5	0.408	0.360	10.870	9.578	1.5971E-04	1.6834E-04	-0.687

FREE-STREAM DENSITY-VELOCITY PRODUCT = 7.280E-01 (SLUGS/FT2-SEC)

PROBE NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
5.10 MACH 5.10

REL LENGTH(METER) 8.18
REL LENGTH(FT) 26.85
REL LENGTH(METER) 2.3318E 06
REL LENGTH(FT) 7.6725E 07

PT(ATM) 8.18
PT(PSI) 120.23
TT(DEG K) 1148.8
TT(DEG R) 2064.2

RS(METER) 0.3046
RS(FT) 1.0000
HAM/HT 1.000
HAM/HT 1.000

CHAN	T/C	HW/HT	Q/OS	H/HS(1.000)	F/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/CS	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)
21	21	0.258	0.0313	0.0357	0.0377	0.0377	39	39	0.258	0.0431	0.0493	0.0519	
22	22	0.259	0.0211	0.0242	0.0255	0.0255	40	40	0.259	0.0462	0.0520	0.0557	
23	23	0.258	0.0137	0.0157	0.0165	0.0165	41	41	0.259	0.0666	0.0762	0.0802	
24	24	0.258	0.0084	0.0096	0.0101	0.0101	42	42	0.260	0.0768	0.0879	0.0926	
25	25	0.258	0.0055	0.0063	0.0066	0.0066	43	43	0.260	0.0744	0.0851	0.0896	
26	26	0.257	0.0020	0.0023	0.0024	0.0024	44	44	0.260	0.0643	0.0736	0.0775	
27	27	0.257	0.0008	0.0009	0.0010	0.0010	45	45	0.259	0.0550	0.0630	0.0663	
28	28	0.256	0.0000	0.0000	0.0000	0.0000	46	46	0.259	0.0505	0.0577	0.0608	
29	29	0.256	-0.0001	-0.0001	-0.0001	-0.0001	47	47	0.259	0.0536	0.0613	0.0646	
30	30	0.256	-0.0006	-0.0007	-0.0007	-0.0007	48	48	0.259	0.0486	0.0556	0.0586	
31	31	0.256	-0.0013	-0.0015	-0.0015	-0.0015	49	49	0.259	0.0475	0.0544	0.0573	
32	32	0.256	-0.0024	-0.0028	-0.0029	-0.0029	50	50	0.259	0.0471	0.0538	0.0567	
33	33	0.256	-0.0021	-0.0021	-0.0021	-0.0021	51	51	0.256	-0.0006	-0.0007	-0.0007	
34	34	0.256	0.0005	0.0005	0.0006	0.0006	52	52	0.256	-0.0013	-0.0014	-0.0015	
35	35	0.257	0.0028	0.0029	0.0030	0.0030	53	53	0.257	0.0013	0.0013	0.0014	
36	36	0.257	0.0025	0.0029	0.0031	0.0031	54	54	0.258	0.0124	0.0124	0.0150	
37	37	0.258	0.0111	0.0127	0.0134	0.0134	55	55	0.258	0.0124	0.0124	0.0150	
38	38	0.258	0.0362	0.0414	0.0436	0.0436	60	60	0.259	0.0384	0.0439	0.0462	

MACH		NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		RESEARCH CENTER MOFFETT FIELD CALIF.		PRELIMINARY DATA		TEST NO.		
5.10	2.5173E C6	RE/METER	REL	PT(ATM)	TT(DEG K)	WT(LB/CM2)	HT(JOULE/KG)	HAM/HT		
5.10	7.6726E C5	RE/FT	REL	PT(PSI)	TT(DEG R)	HT(FTU/LBM)	RS(METER)	HAM/HT		
		LENGTH(FT)	LENGTH(C6)	120.23	206.62	522.12	1.0000	1.000		
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C-9C7)	ST(I0-874)	TIME(SEC)
21	21	312.4	562.3	0.308	0.308	11.179	9.851	1.3405E-04	1.4208E-04	-0.253
22	22	313.5	566.3	0.236	0.236	11.164	9.837	9.1178E-05	9.6073E-05	-0.362
23	23	312.5	562.4	0.435	0.435	11.178	9.850	5.9117E-05	6.2286E-05	-0.795
24	24	312.1	561.8	0.394	0.394	11.183	9.854	3.6205E-05	3.8145E-05	-2.008
25	25	311.5	560.8	0.561	0.561	11.191	9.860	2.3669E-05	2.4936E-05	-2.254
26	26	311.1	560.0	0.922	0.922	11.196	9.865	8.6121E-06	9.0729E-06	-2.004
27	27	310.5	558.9	0.709	0.709	11.205	9.873	5.5584E-06	3.7486E-06	-2.766
28	28	310.1	558.1	0.500	0.500	11.210	9.878	8.5168E-08	8.9719E-08	-81.347
29	29	309.6	557.2	-0.491	-0.491	11.217	9.884	-5.1112E-07	-5.3842E-07	1.214
30	30	309.3	556.7	-0.207	-0.207	11.221	9.887	-2.6831E-06	-2.8264E-06	-0.494
31	31	309.9	556.2	-0.14	-0.14	11.225	9.891	-5.5428E-06	-5.8385E-06	-0.387
32	32	309.0	556.2	-0.027	-0.027	11.224	9.890	-1.1473E-05	-1.1032E-05	-0.039
33	33	309.5	557.2	0.001	0.001	11.218	9.885	3.1637E-07	3.2694E-07	-4.657
34	34	310.0	558.0	0.305	0.305	11.211	9.878	1.9951E-06	2.1017E-06	-2.546
35	35	310.3	558.5	0.008	0.008	11.208	9.875	3.4512E-06	3.6377E-06	-3.181
36	36	311.0	559.8	0.329	0.329	11.198	9.867	1.0995E-05	1.1594E-05	-1.108
37	37	311.7	561.1	0.125	0.125	11.188	9.858	4.8066E-05	5.0641E-05	0.014
38	38	312.2	562.2	0.404	0.404	11.180	9.851	1.605E-04	1.6442E-04	-0.245
39	39	313.1	563.8	0.424	0.424	11.182	9.853	1.8587E-04	1.9583E-04	-0.927
40	40	313.2	563.5	0.516	0.516	11.171	9.843	1.9944E-04	2.1014E-04	-1.137
41	41	313.1	563.8	0.744	0.744	11.169	9.841	2.8735E-04	3.0277E-04	-0.718
42	42	314.0	565.3	0.857	0.857	11.157	9.831	3.2457E-04	3.4918E-04	-0.383
43	43	314.3	565.8	0.829	0.829	11.153	9.828	3.2089E-04	3.3814E-04	0.078
44	44	314.1	565.4	0.718	0.718	11.157	9.833	2.7765E-04	2.9256E-04	0.062
45	45	313.3	564.0	0.542	0.542	11.167	9.840	2.3751E-04	2.5226E-04	0.035
46	46	313.3	564.0	0.497	0.497	11.167	9.840	2.1789E-04	2.2958E-04	0.027
47	47	313.4	564.2	0.599	0.599	11.165	9.838	2.3145E-04	2.4388E-04	0.044
48	48	313.0	563.6	0.443	0.443	11.171	9.844	2.3588E-04	2.4113E-04	0.034
49	49	313.0	563.4	0.468	0.468	11.171	9.843	2.3098E-04	2.4169E-04	0.024
50	50	312.6	562.0	0.531	0.531	11.177	9.849	2.3048E-04	2.4139E-04	-0.015
51	51	309.3	556.7	-0.007	-0.007	11.221	9.887	-2.6098E-06	-2.7492E-06	-0.388
52	52	310.1	558.1	-0.014	-0.014	11.211	9.878	-5.4436E-06	-5.7345E-06	1.387
53	53	310.2	558.3	0.012	0.012	11.209	9.877	5.0288E-06	5.2576E-06	-1.283
54	54	312.2	561.9	0.139	0.139	11.182	9.853	5.3633E-05	5.6507E-05	0.017
55	55	312.8	563.1	0.429	0.429	11.174	9.845	1.6655E-04	1.7445E-04	-0.322

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.0935E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MCCRETT FIELD CALIF. PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 65

MACH	RE/PIECE	REL	LENGTH	PI(ATM)	TT(DLG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	TEST NO.
5.1	2.435FICE	0.2192E 05	0.0714	8.18	171.8	1.2431E 06	0.3040	1.000	158
5.1	7.3960E 05	2.2192E 06	2.000	20.23	210.2	534.50	1.0000	1.000	65

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(1.907)	H/HS(1.000)	H/HS(1.907)	H/HS(1.000)	H/HS(1.907)
56	71	0.251	0.0011	0.0002	0.0002	0.0941	0.1127	0.1075	0.1132
57	72	0.250	-0.0001	-0.0001	-0.0001	0.1127	0.1127	0.1288	0.1357
58	73	0.250	0.0007	0.0008	0.0008	0.256	0.256	0.1032	0.1087
59	74	0.251	0.0017	0.0019	0.0020	0.0903	0.0903	0.0865	0.0912
60	75	0.251	0.0041	0.0046	0.0049	0.0757	0.0757	0.0763	0.0804
61	76	0.252	0.0067	0.0077	0.0081	0.0668	0.0668	0.0625	0.0697
62	77	0.252	0.0092	0.0105	0.0110	0.0547	0.0547	0.0567	0.0597
63	78	0.252	0.0154	0.0176	0.0186	0.0496	0.0496	0.0510	0.0543
64	79	0.253	0.0241	0.0275	0.0290	0.0534	0.0534	0.0610	0.0643
65	80	0.254	0.0832	0.0950	0.1001	0.0494	0.0494	0.0565	0.0595

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION ARMS RESEARCH CENTER MCGOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	T (DEG K)	T (DEG R)	Q (BTU/FT ² -SEC)	QS (W/CM ²)	QS (BTU/FT ² -SEC)	ST (C.907)	ST (O.874)	TIME (SEC)
56	71	379.5	557.1	0.002	11.576	10.270	0.1054E-07	5.4285E-07	7.473
57	72	379.5	557.1	-0.004	11.576	10.200	-2.0343E-07	-2.1419E-07	-1.897
58	73	309.8	557.6	0.007	11.572	10.196	2.7717E-06	3.1289E-06	0.105
59	74	310.2	558.4	0.019	11.567	10.192	7.3659E-06	7.7600E-06	0.065
60	75	310.5	559.5	0.047	11.558	10.185	1.7740E-05	1.8679E-05	-0.207
61	76	311.4	560.5	0.077	11.551	10.178	2.9365E-05	3.0922E-05	-0.252
62	77	311.7	561.0	0.100	11.547	10.174	4.2166E-05	4.2317E-05	-0.253
63	78	312.4	562.2	0.178	11.538	10.166	6.7161E-05	7.1253E-05	-0.155
64	79	313.5	564.3	0.278	11.523	10.153	1.2561E-04	1.1123E-04	-0.013
65	80	314.2	565.5	0.458	11.514	10.145	3.2437E-04	3.8375E-04	-0.073
66	81	315.4	567.7	0.784	11.497	10.131	4.1411E-04	4.3477E-04	-0.626
67	82	316.3	569.3	1.195	11.485	10.120	4.9386E-04	5.2022E-04	-0.249
68	83	317.0	570.6	1.736	11.476	10.112	3.9577E-04	4.1683E-04	0.067
69	84	317.2	570.9	0.869	11.473	10.110	3.3173E-04	3.4945E-04	0.044
70	85	317.5	571.5	0.766	11.469	10.106	2.9246E-04	3.0808E-04	0.033
71	86	317.4	571.4	0.664	11.470	10.107	2.5367E-04	2.6723E-04	0.019
72	87	317.8	572.0	0.627	11.465	10.103	2.3976E-04	2.5258E-04	-0.049
73	88	318.7	573.0	0.568	11.453	10.092	2.1730E-04	2.2893E-04	-0.041
74	89	319.5	575.1	0.611	11.443	10.083	2.3399E-04	2.4652E-04	-0.049
75	90	318.7	573.7	0.566	11.453	10.092	2.1652E-04	2.2811E-04	-0.123

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0613E-01 (SLUGS/FT²-SEC)

PROBE NO. = ?

TEST NO. 158
RUN NO. 66

HAM/HT 1.000
HAM/HT 1.000

RS (METER) 0.3048
RS (FT) 1.0000

PT (PSI) 120.23
PT (DEG R) 2109.2

PT (ATM) 8.18
PT (DEG K) 1171.8

REL LENGTH (METER) 2.219E-06
REL LENGTH (FT) 3.000

REL RE/METER 1.426E-06
REL RE/FT 7.390E-06

REL T (DEG K) 2.219E-06
REL T (DEG R) 2.219E-06

REL T (DEG K) 2.219E-06
REL T (DEG R) 2.219E-06

REL T (DEG K) 2.219E-06
REL T (DEG R) 2.219E-06

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 67
CONSTANT SET 221

RC/METER 4.5592E 05
 REL 4.1785E 06
 LENGTH(METER) 3.314
 LENGTH(FT) 3.360

HT(JOULE/KG) 19.75E 06
 HT(BTU/LBM) 514.93

T(DEG K) 13.44
 T(DEG R) 2038.3

PT(PSI) 14.53
 PT(PSI) 213.65

H/HS(0.907) 0.418
 H/HS(0.874) 0.439

Q/QS 0.264
 H/HS(1.000) 0.364

HW/HT 0.256
 H/HS(1.000) 0.364

H/HS(0.907) 0.1598
 H/HS(0.874) 0.1685

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.256	0.264	0.364	0.418	0.439	11	0.265	0.1396	0.1296	0.1598	0.1685
2	2	0.283	0.712	0.372	0.2814	0.858	12	0.264	0.162	0.1262	0.1444	0.1522
3	3	0.264	0.1880	0.1890	0.2152	0.2268	13	0.264	0.1699	0.1699	0.1945	0.2050
4	4	0.264	0.1822	0.1822	0.2086	0.2199	14	0.264	0.1718	0.1718	0.1966	0.2073
5	5	0.265	0.1767	0.1767	0.2022	0.2132	15	0.264	0.2346	0.2346	0.2342	0.2468
6	6	0.266	0.1991	0.1991	0.2279	0.2402	16	0.259	0.0076	0.0076	0.0087	0.0092
7	7	0.266	0.2237	0.2237	0.2561	0.2730	17	0.259	0.0071	0.0071	0.0081	0.0085
8	8	0.266	0.1751	0.1751	0.2005	0.2114	18	0.261	0.037	0.037	0.0431	0.0454
9	9	0.260	0.1477	0.1477	0.1692	0.1784	19	0.262	0.0676	0.0676	0.0773	0.0815
10	10	0.265	0.1256	0.1256	0.1438	0.1516	20	0.263	0.1872	0.1872	0.2142	0.2258

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
CHAN	T/C	TIME(EG K)	TIME(EG R)	Q(W/CM2)	Q(RTU/FT2-SEC)	US(W/CM2)	QS(BTU/FT2-SEC)	ST(C-907)	ST(I0-874)	TIME(SEC)
1	1	305.4	549.7	0.125	1.474	14.752	12.599	1.1664E-04	1.2308E-04	0.439
2	2	313.7	567.5	1.441	1.917	14.016	12.879	2.837E-04	2.4070E-04	0.557
3	3	314.0	566.3	2.743	2.417	14.588	12.854	6.3327E-04	6.3590E-04	0.240
4	4	315.2	567.4	2.526	1.341	14.578	12.845	3.8481E-04	5.1646E-04	0.197
5	5	315.6	568.1	1.114	1.268	14.570	12.839	5.7691E-04	5.9762E-04	0.178
6	6	316.6	569.8	2.997	2.553	14.554	12.824	6.3892E-04	6.7358E-04	0.454
7	7	316.7	570.0	3.155	1.868	14.552	12.822	7.1785E-04	7.5679E-04	0.001
8	8	317.4	571.4	2.545	1.894	14.539	12.810	5.1193E-04	5.9244E-04	0.315
9	9	317.0	570.7	2.149	1.894	14.545	12.816	4.7421E-04	4.9995E-04	0.324
10	10	316.4	569.6	1.939	1.611	14.556	12.826	4.1318E-04	4.2504E-04	0.331
11	11	316.3	569.4	2.132	1.790	14.558	12.828	4.7959E-04	4.7224E-04	0.350
12	12	316.4	566.4	1.841	1.622	14.591	12.857	4.484E-04	4.2673E-04	0.714
13	13	315.3	567.5	2.477	2.182	14.577	12.844	5.4526E-04	5.7478E-04	0.452
14	14	315.3	567.5	2.504	2.106	14.577	12.844	5.5119E-04	5.8103E-04	0.488
15	15	314.9	566.8	2.383	2.629	14.584	12.851	6.3645E-04	6.9195E-04	0.533
16	16	318.8	555.8	0.112	1.092	14.694	12.945	2.4502E-05	2.5817E-05	0.604
17	17	308.7	555.6	0.104	1.092	14.694	12.947	2.2713E-05	2.3932E-05	0.604
18	18	311.1	560.0	0.252	0.886	14.651	12.910	1.2678E-04	1.2728E-04	0.454
19	19	312.1	561.8	0.989	0.872	14.633	12.894	2.1686E-04	2.2854E-04	0.544
20	20	313.0	563.4	2.736	2.411	14.617	12.879	6.0666E-04	6.3308E-04	0.304

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7597E-01 (SLUGS/FT2-SEC)

PROGRAM NC. =

TEST NO. 158
RUN NO. 67

HAW/HT 1.000
HAW/HT 1.000

RS(METER) 0.3048
RS(FT) 1.0000

HT(JOULE/KG) 1.1975E 06
HT(BTU/LBM) 514.93

TT(EG K) 112.4
TT(EG R) 2038.3

PT(ATM) 14.53
PT(PSSI) 213.65

REL LENGTH(C) 0.914
REL LENGTH(R) 3.30

REL LENGTH(C) 4.1786E 05
REL LENGTH(R) 4.1786E 06

RE/METER 4.5698E 06
RE/FT 1.3929E 05

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA

CHAN	T/C	TH(DEG K)	TW	DEG P	W(M/CM2)	Q(RTU/FT2-SEC)	Q(SI/M/CM2)	QS(HTU/FT2-SFC)	QS(HTU/FT2-SFC)	ST(C.907)	ST(C.874)	TIME(SEC)
21	21	347.4	555.9	0.27	0.27	1.0392	13.298	1.035E-04	1.057E-04	1.035E-04	1.057E-04	-0.460
22	22	347.7	571.8	0.27	0.27	1.0394	13.247	1.1429E-04	1.2043E-04	1.1429E-04	1.2043E-04	-0.102
23	23	315.5	567.9	0.27	0.27	1.0375	13.261	2.1390E-04	2.2536E-04	2.1390E-04	2.2536E-04	0.167
24	24	315.0	567.9	0.27	0.27	1.0381	13.239	2.2534E-04	2.3741E-04	2.2534E-04	2.3741E-04	0.029
25	25	314.0	555.1	0.27	0.27	1.0300	13.305	4.5458E-04	4.861E-04	4.5458E-04	4.861E-04	0.180
26	26	313.1	554.0	0.27	0.27	1.0472	13.315	1.1692E-04	1.2316E-04	1.1692E-04	1.2316E-04	0.217
27	27	311.5	560.6	0.27	0.27	1.0411	13.344	1.5594E-05	1.6214E-04	1.5594E-05	1.6214E-04	0.335
28	28	311.2	560.2	0.27	0.27	1.0449	13.348	7.4210E-05	7.6057E-05	7.4210E-05	7.6057E-05	0.369
29	29	308.9	556.1	0.27	0.27	1.0199	13.384	4.8119E-05	5.0675E-05	4.8119E-05	5.0675E-05	0.372
30	30	308.3	553.9	0.27	0.27	1.0202	13.345	4.1193E-05	4.2212E-05	4.1193E-05	4.2212E-05	0.316
31	31	307.4	553.2	0.27	0.27	1.0216	13.409	-3.7354E-06	-3.9373E-06	-3.7354E-06	-3.9373E-06	0.127
32	32	307.8	554.0	0.27	0.27	1.0202	13.402	1.4624E-05	1.5399E-05	1.4624E-05	1.5399E-05	0.328
33	33	310.6	559.1	0.27	0.27	1.0160	13.358	4.7085E-05	4.9591E-05	4.7085E-05	4.9591E-05	0.416
34	34	311.8	561.2	0.28	0.28	1.0139	13.340	7.1663E-05	7.4430E-05	7.1663E-05	7.4430E-05	0.385
35	35	311.3	560.4	0.27	0.27	1.0147	13.347	9.4123E-05	9.9138E-05	9.4123E-05	9.9138E-05	0.320
36	36	311.9	561.5	0.28	0.28	1.0136	13.337	1.2052E-04	1.2695E-04	1.2052E-04	1.2695E-04	0.305
37	37	312.7	562.9	0.28	0.28	1.0123	13.325	1.9085E-04	2.0104E-04	1.9085E-04	2.0104E-04	0.402
38	38	313.4	564.2	0.28	0.28	1.0110	13.314	2.3098E-04	2.4093E-04	2.3098E-04	2.4093E-04	0.313
39	39	312.6	562.7	0.27	0.27	1.0125	13.327	5.3586E-04	5.6171E-04	5.3586E-04	5.6171E-04	-0.090
40	40	314.5	566.0	0.27	0.27	1.0192	13.298	5.7489E-04	5.9512E-04	5.7489E-04	5.9512E-04	-0.094
41	41	318.1	572.6	0.28	0.28	1.0226	13.240	6.2131E-04	6.5472E-04	6.2131E-04	6.5472E-04	0.057
42	42	319.5	575.0	0.28	0.28	1.0203	13.219	6.3023E-04	6.5364E-04	6.3023E-04	6.5364E-04	0.277
43	43	318.4	573.2	0.27	0.27	1.0211	13.235	4.4837E-04	4.9356E-04	4.4837E-04	4.9356E-04	0.279
44	44	317.0	570.6	0.27	0.27	1.0247	13.258	5.1178E-04	5.4277E-04	5.1178E-04	5.4277E-04	0.293
45	45	313.9	565.0	0.27	0.27	1.0201	13.306	2.4761E-04	2.5978E-04	2.4761E-04	2.5978E-04	0.320
46	46	318.3	572.9	0.28	0.28	1.0224	13.238	3.4294E-04	3.6335E-04	3.4294E-04	3.6335E-04	0.366
47	47	318.2	572.7	0.28	0.28	1.0254	13.256	4.2588E-04	4.5324E-04	4.2588E-04	4.5324E-04	0.415
48	48	317.1	570.9	0.27	0.27	1.0244	13.254	5.1176E-04	5.3924E-04	5.1176E-04	5.3924E-04	0.436
49	49	317.2	571.0	0.27	0.27	1.0242	13.254	5.6969E-04	6.0028E-04	5.6969E-04	6.0028E-04	0.456
50	50	316.4	569.2	0.27	0.27	1.0267	13.267	6.6118E-04	7.0079E-04	6.6118E-04	7.0079E-04	0.489
51	51	310.6	559.0	0.27	0.27	1.0160	13.358	2.6836E-06	2.8265E-06	2.6836E-06	2.8265E-06	0.309
52	52	312.7	562.9	0.27	0.27	1.0170	13.325	4.1484E-05	4.3698E-05	4.1484E-05	4.3698E-05	0.334
53	53	314.1	565.4	0.27	0.27	1.0198	13.303	9.0954E-05	9.5818E-05	9.0954E-05	9.5818E-05	0.365
54	54	317.0	570.5	0.27	0.27	1.0247	13.259	1.1302E-04	1.1925E-04	1.1302E-04	1.1925E-04	0.211
55	55	317.8	572.1	0.28	0.28	1.0232	13.245	5.2269E-04	5.5078E-04	5.2269E-04	5.5078E-04	0.211

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6949E-11 (SLUGS/FT2-SEC)

PROBE NO. = 2

TEST NO. 158

RUN NO. 67

RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA

RS(METER) HAM/MT 1.000

RS(FT) HAM/HT 1.000

RS(FT) 1.000

RS(FT) 1.000

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA ...
 MACH 5.10
 5.10
 5.11

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAM.	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	71	0.247	0.014	0.0014	0.0017	0.0017	66	81	0.255	0.1659	0.1629	0.1629	0.1629
57	72	0.248	0.046	0.0046	0.0055	0.0055	67	82	0.255	0.2041	0.2041	0.2041	0.2041
58	73	0.249	0.061	0.0061	0.0074	0.0074	68	83	0.257	0.1956	0.1956	0.1956	0.1956
59	74	0.249	0.087	0.0087	0.0104	0.0104	69	84	0.257	0.1289	0.1289	0.1289	0.1289
60	75	0.250	0.137	0.0137	0.0164	0.0164	70	85	0.258	0.1167	0.1167	0.1167	0.1167
61	76	0.251	0.178	0.0178	0.0214	0.0214	71	86	0.258	0.1283	0.1283	0.1283	0.1283
62	77	0.251	0.217	0.0217	0.0261	0.0261	72	87	0.259	0.1183	0.1183	0.1183	0.1183
63	78	0.252	0.309	0.0309	0.0372	0.0372	73	88	0.259	0.1168	0.1168	0.1168	0.1168
64	79	0.253	0.489	0.0489	0.0588	0.0588	74	89	0.260	0.1489	0.1489	0.1489	0.1489
65	80	0.254	0.597	0.0597	0.0722	0.0722	75	90	0.259	0.1746	0.1746	0.1746	0.1746

TEST NO. 158
 RUN NO. 67

PSI(METER) 1.000
 PSI(FT) 1.000
 H/HS(1.000) 1.000

HT(JOULE/KG) 1.2500E 06
 HT(8TU/LBM) 540.36

TT(DEG K) 1.85E 02
 TT(DEG R) 3.329E 07

PT(ATM) 14.73
 P(PSI) 313.65

REL LENGTH(FT) 3.00
 REL LENGTH(1.6)

REL LENGTH(3.0)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***												
MACH	REFMETER	REL LENGTH(METER)	PT(ATM)	TI(DEG. K)	HT(JOULE/KG)	PS(METER)	HAW/HT	TEST NO.	1.18	HAW/HT	RUN NO.	67
5.1	4.2423E C6	3.8791E C6	0.314	14.93	1182.0	1.2556E C6	0.3348	1.000	1.000	1.000	1.000	1.000
5.13	1.2939E C6	3.8791E C6	3.00	213.95	2129.7	540.36	1.0000	CONSTANT SET 12-1				
CHN	I/C	TI(DEG. K)	TI(DEG. K)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C)	ST(0.874)	ST(C)	ST(0.907)	TIME(SEC)
56	71	311.2	560.2	0.224	0.019	15.618	13.762	4.656E-05	4.9119E-06	1.6017E-05	1.6017E-05	-0.852
57	72	310.4	559.2	0.272	0.063	15.631	13.773	1.5215E-05	1.6017E-05	1.6017E-05	1.6017E-05	-0.258
58	73	311.2	560.2	0.196	0.085	15.618	13.761	4.0312E-05	2.0194E-05	2.0194E-05	2.0194E-05	-0.352
59	74	312.0	561.5	0.135	0.119	15.604	13.750	2.6643E-05	3.0153E-05	3.0153E-05	3.0153E-05	-0.349
60	75	312.9	563.2	0.013	0.188	15.587	13.735	4.5186E-05	4.7576E-05	4.7576E-05	4.7576E-05	-0.395
61	76	313.5	564.3	0.278	0.245	15.577	13.725	5.8563E-04	6.2079E-05	6.2079E-05	6.2079E-05	-0.440
62	77	314.6	566.2	0.338	0.298	15.558	13.708	7.1829E-05	7.5637E-05	7.5637E-05	7.5637E-05	-0.410
63	78	315.0	567.0	0.481	0.424	15.550	13.702	1.0233E-04	1.0776E-04	1.0776E-04	1.0776E-04	-0.512
64	79	316.6	569.9	0.759	0.669	15.521	13.676	1.5184E-04	1.7044E-04	1.7044E-04	1.7044E-04	-0.022
65	80	318.1	572.7	0.475	2.181	15.494	13.653	5.1615E-04	5.5676E-04	5.5676E-04	5.5676E-04	-0.190
66	81	319.6	575.3	2.566	4.261	15.468	13.629	3.4517E-04	3.7839E-04	3.7839E-04	3.7839E-04	-0.907
67	82	319.1	574.5	3.159	2.783	15.478	13.638	5.7524E-04	7.1134E-04	7.1134E-04	7.1134E-04	-0.213
68	83	321.4	578.6	2.171	4.089	15.436	13.601	5.1831E-04	5.3554E-04	5.3554E-04	5.3554E-04	0.100
69	84	321.7	579.1	1.990	1.753	15.430	13.596	4.1682E-04	4.4966E-04	4.4966E-04	4.4966E-04	0.073
70	85	322.5	580.5	1.800	1.586	15.417	13.584	3.8640E-04	4.0709E-04	4.0709E-04	4.0709E-04	0.060
71	86	322.7	580.9	1.670	1.471	15.413	13.581	3.5856E-04	3.7776E-04	3.7776E-04	3.7776E-04	0.065
72	87	323.6	582.5	1.821	1.605	15.398	13.567	3.9157E-04	4.1256E-04	4.1256E-04	4.1256E-04	0.050
73	88	324.4	584.0	1.797	1.582	15.383	13.554	3.8676E-04	4.0752E-04	4.0752E-04	4.0752E-04	0.071
74	89	325.6	586.0	2.287	2.015	15.362	13.536	4.9290E-04	5.1940E-04	5.1940E-04	5.1940E-04	0.095
75	90	324.3	583.8	2.625	0.366	15.384	13.556	5.7791E-04	6.0893E-04	6.0893E-04	6.0893E-04	0.111

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.6358E-11 (SLUGS/FT2-SEC)

PROBE NO. = 3

PRELIMINARY DATA ***												
MACH	T/C	CHAN	HM/HT	Q/QS	H/HS(0.907)	H/HS(0.874)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(Footer)	HM/HT	TEST NO.
5.20	10	10	0.267	0.0897	0.1027	0.1083	4.52	1105.6	2.1644E 06	0.0248	1.000	58
5.11	9	9	0.268	0.0897	0.1027	0.1083	60.52	1990.0	501.57	1.0000	1.000	68
	8	8	0.268	0.0897	0.1027	0.1083	60.52	1990.0	501.57	1.0000	1.000	
	7	7	0.268	0.1090	0.1402	0.1694	60.52	1990.0	501.57	1.0000	1.000	
	6	6	0.267	0.1168	0.1538	0.1811	60.52	1990.0	501.57	1.0000	1.000	
	5	5	0.267	0.1250	0.1700	0.2069	60.52	1990.0	501.57	1.0000	1.000	
	4	4	0.267	0.1303	0.1823	0.2269	60.52	1990.0	501.57	1.0000	1.000	
	3	3	0.267	0.1356	0.1946	0.2441	60.52	1990.0	501.57	1.0000	1.000	
	2	2	0.266	0.1439	0.2174	0.2789	60.52	1990.0	501.57	1.0000	1.000	
	1	1	0.266	0.1521	0.2324	0.3225	60.52	1990.0	501.57	1.0000	1.000	

CONSTANT SET 221

CHAN	T/C	HM/HT	Q/QS	H/HS(0.907)	H/HS(0.874)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(Footer)	HM/HT	TEST NO.
10	10	0.267	0.0707	0.0810	0.0854	4.52	1105.6	2.1644E 06	0.0248	1.000	58
9	9	0.267	0.0707	0.0810	0.0854	60.52	1990.0	501.57	1.0000	1.000	68
8	8	0.266	0.0897	0.1027	0.1083	60.52	1990.0	501.57	1.0000	1.000	
7	7	0.268	0.1090	0.1402	0.1694	60.52	1990.0	501.57	1.0000	1.000	
6	6	0.269	0.1168	0.1538	0.1811	60.52	1990.0	501.57	1.0000	1.000	
5	5	0.267	0.1250	0.1700	0.2069	60.52	1990.0	501.57	1.0000	1.000	
4	4	0.267	0.1303	0.1823	0.2269	60.52	1990.0	501.57	1.0000	1.000	
3	3	0.267	0.1356	0.1946	0.2441	60.52	1990.0	501.57	1.0000	1.000	
2	2	0.267	0.1439	0.2174	0.2789	60.52	1990.0	501.57	1.0000	1.000	
1	1	0.266	0.1521	0.2324	0.3225	60.52	1990.0	501.57	1.0000	1.000	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 1.0 1.4814E 06 1.3546E 06 1.3546E 06
 KE/RETEP 309.7 309.6 310.2 310.6 311.0 311.4 311.8 312.2 312.6 313.0 313.4 313.8 314.2 314.6 315.0 315.4 315.8 316.2 316.6 317.0
 REL LENGTH(ME ER) 554.6 557.3 558.3 559.4 559.1 559.8 559.8 560.2 560.1 559.1 558.8 558.7 558.0 557.7 557.1 554.1 554.0 555.9 555.9 557.0
 REL LENGTH(FT) 1.914
 PT(PST) 60.52
 TI(DEC K) 1990.0
 HI(JOULE/KG) 1.000
 TEST NO. 158
 RUN NO. 68

CHAN	T/C	TM(DEC K)	TM(DEC R)	G(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	US(BTU/FT2-SEC)	ST(CU.907)	TT(0.874)	TIME(SEC)
1	1	309.7	554.6	0.317	0.345	7.913	6.972	1.1824E-05	1.2462E-05	-8.067
2	2	309.6	557.3	0.317	0.345	7.904	6.954	1.3532E-04	4.4267E-04	-0.380
3	3	310.2	558.3	0.317	0.345	7.898	6.959	4.2748E-04	4.5072E-04	-0.653
4	4	310.6	559.4	0.317	0.345	7.894	6.956	4.5408E-04	4.7876E-04	-0.989
5	5	310.8	559.1	0.317	0.345	7.894	6.955	5.9409E-04	6.2641E-04	-0.965
6	6	311.0	559.8	0.317	0.345	7.890	6.952	6.5068E-04	6.9665E-04	-0.630
7	7	311.4	559.8	0.317	0.345	7.888	6.952	7.9302E-04	8.3619E-04	-0.107
8	8	311.8	560.2	0.317	0.345	7.888	6.950	6.1631E-04	6.4987E-04	0.202
9	9	311.1	560.1	0.317	0.345	7.889	6.951	5.0714E-04	5.3477E-04	0.173
10	10	310.6	559.1	0.317	0.345	7.894	6.955	3.4497E-04	4.2174E-04	0.154
11	11	310.5	558.8	0.317	0.345	7.895	6.957	3.7810E-04	3.9866E-04	0.154
12	12	308.2	554.7	0.317	0.345	7.895	6.977	3.4787E-04	3.6673E-04	0.541
13	13	309.9	557.7	0.317	0.345	7.900	6.961	3.5398E-04	3.5214E-04	0.152
14	14	309.8	558.0	0.317	0.345	7.901	6.962	3.0487E-04	3.2144E-04	0.152
15	15	307.8	557.1	0.317	0.345	7.901	6.962	3.2067E-04	3.3810E-04	0.170
16	16	307.8	554.1	0.317	0.345	7.921	6.980	1.2308E-06	1.2975E-06	-18.858
17	17	307.8	554.0	0.317	0.345	7.922	6.980	4.6836E-07	4.9374E-07	-45.301
18	18	308.8	555.9	0.317	0.345	7.911	6.971	1.1293E-05	1.1906E-05	-8.433
19	19	309.4	557.0	0.317	0.345	7.905	6.966	1.1055E-04	1.1655E-04	-0.522
20	20	309.9	557.8	0.317	0.345	7.901	6.962	3.9955E-04	4.2126E-04	-0.606

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1917E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

TEST NO. 158
RUN NO. 68

PRELIMINARY DATA ***

PS(METER) C.3048
RS(FT) 1.0000
HAM/HT 1.000
HAM/HT 1.000

MCFFETT FIELD
HT(JOULE/KG) 1.2025E 06
HT(FT) 517.09

RESEARCH CENTER
YI(DEG K) 1130.7
YI(DEG R) 2046.1

ADMINISTRATION AMES
PI(ATM) 4.52
PT(PST) 68.52

SPACE ADMINISTRATION AMES
LENGTH(METER) C.114
LENGTH(FT) 3.900

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES
RFL 1.2922E 06
RFL 1.2922E 06

Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874)

HW/HT Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874)

HW/HT Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874)

HW/HT Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874)

HW/HT Q/QS H/HS(1.000) H/HS(0.907) H/HS(0.874)

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	0.259	0.0180	0.0190	0.0205	0.0217	39	39	0.260	0.0945	0.0945	0.1081	0.1139
22	22	0.260	0.0151	0.0151	0.0172	0.0182	40	40	0.260	0.0998	0.0998	0.1142	0.1203
23	23	0.259	0.0185	0.0185	0.0212	0.0223	41	41	0.260	0.1255	0.1255	0.1435	0.1512
24	24	0.259	0.0140	0.0140	0.0160	0.0169	42	42	0.261	0.1280	0.1280	0.1464	0.1542
25	25	0.259	0.0080	0.0080	0.0092	0.0096	43	43	0.261	0.0985	0.0985	0.1127	0.1187
26	26	0.259	0.0025	0.0025	0.0029	0.0030	44	44	0.261	0.0828	0.0828	0.0948	0.0999
27	27	0.258	0.0007	0.0007	0.0008	0.0008	45	45	0.260	0.0683	0.0683	0.0781	0.0823
28	28	0.258	0.0000	0.0000	0.0000	0.0000	46	46	0.260	0.0607	0.0607	0.0694	0.0732
29	29	0.258	0.0001	0.0001	0.0001	0.0001	47	47	0.260	0.0624	0.0624	0.0714	0.0752
30	30	0.258	0.0002	0.0002	0.0002	0.0002	48	48	0.259	0.0561	0.0561	0.0642	0.0676
31	31	0.258	0.0009	0.0009	0.0010	0.0010	49	49	0.259	0.0539	0.0539	0.0616	0.0649
32	32	0.258	0.0016	0.0016	0.0018	0.0019	50	50	0.259	0.0540	0.0540	0.0617	0.0650
33	33	0.258	0.0003	0.0003	0.0003	0.0004	51	56	0.258	0.0015	0.0015	-0.0017	-0.0018
34	34	0.258	0.0007	0.0007	0.0008	0.0008	52	57	0.258	-0.0002	-0.0002	-0.0020	-0.0003
35	35	0.258	0.0009	0.0009	0.0011	0.0011	53	58	0.259	0.0018	0.0018	0.0020	0.0021
36	36	0.259	0.0040	0.0040	0.0045	0.0045	54	59	0.260	0.0217	0.0217	0.0248	0.0262
37	37	0.259	0.0182	0.0182	0.0209	0.0220	55	60	0.260	0.0217	0.0217	0.0248	0.0262
38	38	0.260	0.0675	0.0675	0.0772	0.0813			0.260	0.0778	0.0778	0.0890	0.0938

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 1.4135E 06 1.2922E 06 1.2922E 06 4.3085E 05 TM(DEG K) REL LENGTH(M) PT(PSI) TT(DEG R) HT(BTU/LBM) RS(METER) HAM/HT 1.000
 MACH 5.10 4.3085E 05 1.2922E 06 1.2922E 06 4.3085E 05 2040.1 66.52 4.52 1136.7 1.2025E 06 3.346 HAM/HT 1.000

CHAN	T/C	TM(DEG K)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	US(BTU/FT2-SFC)	ST(C.907)	ST(O.874)	TIME(SEC)
21	21	310.7	559.2	0.148	8.225	7.247	1.0367E-04	1.0924E-04	1.0924E-04	-0.316
22	22	311.4	560.6	0.124	8.217	7.241	6.6815E-05	9.1482E-05	9.1482E-05	-0.256
23	23	310.6	559.2	0.152	8.226	7.249	1.0677E-04	1.1250E-04	1.1250E-04	-0.874
24	24	310.5	558.9	0.115	8.226	7.249	8.0824E-05	8.5163E-05	8.5163E-05	-1.710
25	25	310.1	558.2	0.066	8.230	7.252	4.6127E-05	4.8602E-05	4.8602E-05	-2.135
26	26	309.9	557.7	0.021	8.233	7.254	1.4464E-05	1.5240E-05	1.5240E-05	-6.634
27	27	309.4	556.9	0.006	8.238	7.259	3.9541E-06	4.1660E-06	4.1660E-06	-4.0577E-08
28	28	309.1	556.4	0.001	8.240	7.261	-3.8513E-08	-4.0577E-08	-4.0577E-08	498.794
29	29	308.8	555.9	0.001	8.243	7.263	5.4251E-07	5.7158E-07	5.7158E-07	-17.667
30	30	308.5	555.4	-0.001	8.246	7.266	-9.2971E-07	-9.7949E-07	-9.7949E-07	4.566
31	31	308.4	555.0	-0.007	8.248	7.268	-5.0050E-06	-5.2729E-06	-5.2729E-06	1.270
32	32	308.5	555.2	-0.013	8.247	7.267	-9.1165E-06	-9.6046E-06	-9.6046E-06	1.270
33	33	308.8	555.9	0.002	8.243	7.263	1.6542E-06	1.7849E-06	1.7849E-06	-6.413
34	34	309.2	556.6	0.006	8.239	7.258	3.8980E-06	4.1069E-06	4.1069E-06	-5.230
35	35	309.5	557.0	0.008	8.237	7.253	5.3497E-06	5.6365E-06	5.6365E-06	-6.642
36	36	310.1	558.1	0.033	8.231	7.253	1.0510E-04	1.1074E-04	1.1074E-04	-0.039
37	37	310.6	559.1	0.150	8.226	7.248	2.3205E-05	2.4454E-05	2.4454E-05	-1.521
38	38	311.0	559.9	0.489	8.221	7.244	3.8891E-04	4.0980E-04	4.0980E-04	-0.066
39	39	310.8	559.5	0.777	8.223	7.246	5.4483E-04	5.7409E-04	5.7409E-04	-0.339
40	40	311.6	560.8	0.820	8.216	7.240	5.7547E-04	6.0641E-04	6.0641E-04	-0.412
41	41	312.2	562.1	1.031	8.210	7.239	7.2335E-04	7.6224E-04	7.6224E-04	-0.160
42	42	312.3	562.1	1.051	8.209	7.234	7.3805E-04	7.7777E-04	7.7777E-04	0.006
43	43	312.0	561.6	0.880	8.212	7.236	5.6776E-04	5.9831E-04	5.9831E-04	0.223
44	44	311.3	560.3	0.561	8.219	7.242	4.7760E-04	5.0330E-04	5.0330E-04	0.207
45	45	311.3	560.3	0.494	8.220	7.243	3.9348E-04	4.1463E-04	4.1463E-04	0.181
46	46	311.1	560.0	0.499	8.221	7.243	3.4995E-04	3.6875E-04	3.6875E-04	0.178
47	47	310.7	559.2	0.513	8.225	7.247	3.2344E-04	3.4081E-04	3.4081E-04	0.188
48	48	310.7	559.2	0.462	8.225	7.248	3.1053E-04	3.2720E-04	3.2720E-04	0.175
49	49	310.6	559.1	0.443	8.229	7.251	3.1097E-04	3.2767E-04	3.2767E-04	0.166
50	50	310.3	558.5	0.444	8.229	7.251	-8.6340E-06	-9.0963E-06	-9.0963E-06	1.046
51	51	308.5	555.3	-0.012	8.246	7.266	-1.2241E-05	-1.2897E-05	-1.2897E-05	11.930
52	52	309.2	556.6	-0.002	8.236	7.260	1.6281E-05	1.6833E-05	1.6833E-05	-2.643
53	53	309.5	557.2	0.015	8.236	7.257	1.2508E-05	1.3180E-05	1.3180E-05	0.004
54	54	311.1	560.1	0.178	8.220	7.243	4.4854E-04	4.7266E-04	4.7266E-04	-0.000
55	55	311.5	560.7	0.639	8.217	7.240				

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1671E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER HOFFETT FIELD CALIF. *** PRELIMINARY DATA ***																				
MACH		REL		LENGTH(METER)		PI(ATM)		TT(DEG K)		HT(JOULE/KG)		RS(METER)		TEST NO.						
5.10	4.3693E 06	1.2521E 05	0.924	4.52	1158.2	1.2275E 06	1.000	1584.8	U.3048	1.000	U.3048	1.000	1.000	1.000	68					
MACH	REL	LENGTH(FT)	PI(PST)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	RS(FT)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	RS(FT)	RS(FT)	RS(FT)	RS(FT)	RS(FT)	RS(FT)				
5.10	4.1737E 05	1.2221E 06	3.6700	66.52	2084.9	527.86	1.000	2084.9	527.86	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
56	71	0.252	-0.0001	-0.0001	-0.0001	-0.0001	66	81	0.252	0.1396	0.1396	0.1595	0.1680	66	81	0.252	0.1396	0.1396	0.1595	0.1680
57	72	0.252	-0.0002	-0.0002	-0.0002	-0.0002	67	82	0.256	0.1529	0.1529	0.1747	0.1840	67	82	0.256	0.1529	0.1529	0.1747	0.1840
58	73	0.252	-0.0002	-0.0002	-0.0002	-0.0002	68	83	0.256	0.1120	0.1120	0.1280	0.1349	68	83	0.256	0.1120	0.1120	0.1280	0.1349
59	74	0.252	0.0001	0.0001	0.0001	0.0001	69	84	0.256	0.0906	0.0906	0.1036	0.1091	69	84	0.256	0.0906	0.0906	0.1036	0.1091
60	75	0.252	0.0005	0.0005	0.0005	0.0005	70	85	0.256	0.0772	0.0772	0.0882	0.0930	70	85	0.256	0.0772	0.0772	0.0882	0.0930
61	76	0.253	0.0008	0.0008	0.0008	0.0008	71	86	0.257	0.0660	0.0660	0.0754	0.0794	71	86	0.257	0.0660	0.0660	0.0754	0.0794
62	77	0.253	0.0019	0.0019	0.0019	0.0019	72	87	0.257	0.0635	0.0635	0.0726	0.0765	72	87	0.257	0.0635	0.0635	0.0726	0.0765
63	78	0.254	0.0084	0.0084	0.0084	0.0084	73	88	0.257	0.0572	0.0572	0.0654	0.0689	73	88	0.257	0.0572	0.0572	0.0654	0.0689
64	79	0.254	0.0225	0.0225	0.0225	0.0225	74	89	0.258	0.0604	0.0604	0.0690	0.0727	74	89	0.258	0.0604	0.0604	0.0690	0.0727
65	80	0.255	0.1050	0.1050	0.1050	0.1050	75	90	0.257	0.0577	0.0577	0.0660	0.0695	75	90	0.257	0.0577	0.0577	0.0660	0.0695

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 4.1707E 05 1.2521E 06 3.200 Q(W/CM2) Q(BTU/FT2-SEC) QS (W/CM2) QS (BTU/FT2-S-C) STIC(907) STIC(874) TIME(SEC)
 MACH 5.10 4.1707E 05 1.2521E 06 3.200 Q(W/CM2) Q(BTU/FT2-SEC) QS (W/CM2) QS (BTU/FT2-S-C) STIC(907) STIC(874) TIME(SEC)

CHAN	T/C	TM(DEC K)	TM(DEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS (W/CM2)	QS (BTU/FT2-S-C)	STIC(907)	STIC(874)	TIME(SEC)
56	71	308.1	554.5	-0.001	-0.001	8.480	7.472	-4.4387E-07	-4.6953E-07	-5.987
57	72	308.0	554.4	-0.002	-0.002	8.481	7.473	-1.0111E-06	-1.0542E-06	-0.534
58	73	308.1	554.7	0.001	0.001	8.479	7.471	-1.2348E-06	-1.4057E-06	1.537
59	74	308.4	555.2	0.001	0.001	8.477	7.469	6.6784E-07	7.0329E-07	-2.163
60	75	308.9	556.0	0.007	0.007	8.472	7.465	2.5943E-06	2.7742E-06	-2.659
61	76	309.3	556.8	0.016	0.014	8.468	7.461	4.6234E-06	4.8691E-06	-3.395
62	77	309.6	557.2	0.071	0.069	8.465	7.459	1.1037E-05	1.1624E-05	-1.838
63	78	310.1	558.2	0.190	0.167	8.452	7.454	4.5139E-05	5.1753E-05	-0.139
64	79	310.9	559.7	0.387	0.382	8.447	7.447	1.3121E-04	1.3619E-04	0.232
65	80	311.4	561.9	0.778	0.782	8.439	7.443	8.1323E-04	8.5879E-04	-0.221
66	81	312.2	562.9	1.178	1.136	8.434	7.432	8.9290E-04	9.4357E-04	0.204
67	82	312.7	562.9	1.189	0.944	8.430	7.428	6.5438E-04	6.8934E-04	0.150
68	83	313.1	563.5	0.764	0.673	8.429	7.427	5.2939E-04	5.5767E-04	0.125
69	84	313.2	563.7	0.551	0.573	8.427	7.425	4.5066E-04	4.7506E-04	0.101
70	85	313.4	564.2	0.356	0.490	8.428	7.426	3.8530E-04	4.0589E-04	0.078
71	86	313.3	564.0	0.335	0.472	8.425	7.424	3.7104E-04	3.9087E-04	0.077
72	87	313.6	564.5	0.482	0.424	8.418	7.417	3.3420E-04	3.5208E-04	0.075
73	88	314.3	565.8	0.482	0.448	8.413	7.413	3.45274E-04	3.7162E-04	0.075
74	89	314.8	566.7	0.208	0.448	8.421	7.420	3.3726E-04	3.5530E-04	0.047
75	90	314.1	565.3	0.486	0.428	8.421	7.420	3.3726E-04	3.5530E-04	0.047

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2506E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***																		
MACH		RE/METER	REL	SPACE	ADMINISTRATION	AMES	RESEARCH	CENTER	MOFFETT	FIELD	CALIF.	***	PRELIMINARY	DATA	***	TEST	NO.	158
5.10	5.10	7.7998E 05	2.3399E 06	LENGTH(METER)	PT(ATM)	8.25	TT(DEG K)	HT(JULE/KG)	PS(METER)	0.3048	HAW/HT	1.000	HAW/HT	1.000	CONSTANT	SIFT	ZZ/	
5.10	5.10	7.7998E 05	2.3399E 06	LENGTH(FT)	PT(PST)	121.32	TT(DEG R)	HT(FTU/LRM)	RS(FT)	1.0000	HAW/HT	1.000	HAW/HT	1.000	CONSTANT	SIFT	ZZ/	
CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.052	0.052	0.059	0.052	11	11	0.254	0.0578	0.0661	0.0661	0.0661	0.0578	0.0661	0.0661	0.0661	0.0661	0.0661
2	12	0.234	0.234	0.234	0.234	12	12	0.252	0.0615	0.0702	0.0702	0.0702	0.0615	0.0702	0.0702	0.0702	0.0702	0.0702
3	13	0.0595	0.0595	0.0680	0.0595	13	13	0.253	0.0528	0.0603	0.0603	0.0603	0.0528	0.0603	0.0603	0.0603	0.0603	0.0603
4	14	0.0435	0.0435	0.0497	0.0435	14	14	0.253	0.0481	0.0590	0.0590	0.0590	0.0481	0.0590	0.0590	0.0590	0.0590	0.0590
5	15	0.0551	0.0551	0.0629	0.0551	15	15	0.254	0.0519	0.0593	0.0593	0.0593	0.0519	0.0593	0.0593	0.0593	0.0593	0.0593
6	16	0.0828	0.0828	0.0946	0.0828	16	16	0.251	0.0009	0.0011	0.0011	0.0011	0.0009	0.0011	0.0011	0.0011	0.0011	0.0011
7	17	0.1257	0.1257	0.1436	0.1257	17	17	0.248	0.0037	0.0042	0.0042	0.0042	0.0037	0.0042	0.0042	0.0042	0.0042	0.0042
8	18	0.1012	0.1012	0.1157	0.1012	18	18	0.252	0.0074	0.0084	0.0084	0.0084	0.0074	0.0084	0.0084	0.0084	0.0084	0.0084
9	19	0.0814	0.0814	0.0930	0.0814	19	19	0.253	0.0296	0.0338	0.0338	0.0338	0.0296	0.0338	0.0338	0.0338	0.0338	0.0338
10	20	0.0618	0.0618	0.0705	0.0618	20	20	0.253	0.0652	0.0744	0.0744	0.0744	0.0652	0.0744	0.0744	0.0744	0.0744	0.0744

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
MACH 5.10

REL RE/FT 2.5590E 06
REL RE/FT 2.3399E 05
REL RE/FT 2.3399E 06

TEST NO. 158
RUN NO. 49

HAW/HT 1.000
HAW/HT 1.000
HAW/HT 1.000

RS (PIETER) 0.3048
RS (FT) 1.0000

HT (Joule/KG) 1.2083E 06
HT (BTU/LBM) 519.61

TT (DEG K) 1141.8
TT (DEG R) 2035.2

QT (BTU/FT²-SEC) 0.051
QT (W/CM²) 11.290

QT (BTU/FT²-SEC) 0.318
QT (W/CM²) 11.271

QT (BTU/FT²-SEC) 0.591
QT (W/CM²) 11.259

QT (BTU/FT²-SEC) 0.451
QT (W/CM²) 11.252

QT (BTU/FT²-SEC) 0.546
QT (W/CM²) 11.249

QT (BTU/FT²-SEC) 0.820
QT (W/CM²) 11.243

QT (BTU/FT²-SEC) 1.245
QT (W/CM²) 11.242

QT (BTU/FT²-SEC) 1.002
QT (W/CM²) 11.239

QT (BTU/FT²-SEC) 0.806
QT (W/CM²) 11.241

QT (BTU/FT²-SEC) 0.612
QT (W/CM²) 11.249

QT (BTU/FT²-SEC) 0.573
QT (W/CM²) 11.251

QT (BTU/FT²-SEC) 0.611
QT (W/CM²) 11.281

QT (BTU/FT²-SEC) 0.524
QT (W/CM²) 11.257

QT (BTU/FT²-SEC) 0.478
QT (W/CM²) 11.257

QT (BTU/FT²-SEC) 0.515
QT (W/CM²) 11.255

QT (BTU/FT²-SEC) 0.309
QT (W/CM²) 11.300

QT (BTU/FT²-SEC) 0.037
QT (W/CM²) 11.344

QT (BTU/FT²-SEC) 0.073
QT (W/CM²) 11.283

QT (BTU/FT²-SEC) 0.294
QT (W/CM²) 11.271

QT (BTU/FT²-SEC) 0.647
QT (W/CM²) 11.262

US (BTU/FT²-S-C) 9.948
US (BTU/FT²-S-C) 9.920

US (BTU/FT²-S-C) 9.915
US (BTU/FT²-S-C) 9.912

US (BTU/FT²-S-C) 9.907
US (BTU/FT²-S-C) 9.906

US (BTU/FT²-S-C) 9.903
US (BTU/FT²-S-C) 9.903

US (BTU/FT²-S-C) 9.905
US (BTU/FT²-S-C) 9.905

US (BTU/FT²-S-C) 9.912
US (BTU/FT²-S-C) 9.912

US (BTU/FT²-S-C) 9.913
US (BTU/FT²-S-C) 9.913

US (BTU/FT²-S-C) 9.940
US (BTU/FT²-S-C) 9.940

US (BTU/FT²-S-C) 9.919
US (BTU/FT²-S-C) 9.919

US (BTU/FT²-S-C) 9.919
US (BTU/FT²-S-C) 9.919

US (BTU/FT²-S-C) 9.918
US (BTU/FT²-S-C) 9.918

US (BTU/FT²-S-C) 9.957
US (BTU/FT²-S-C) 9.957

US (BTU/FT²-S-C) 9.995
US (BTU/FT²-S-C) 9.995

US (BTU/FT²-S-C) 9.942
US (BTU/FT²-S-C) 9.942

US (BTU/FT²-S-C) 9.931
US (BTU/FT²-S-C) 9.931

US (BTU/FT²-S-C) 9.923
US (BTU/FT²-S-C) 9.923

ST (0.874) 2.3286E-05
ST (0.874) 1.4446E-04

ST (0.874) 2.6835E-04
ST (0.874) 1.9607E-04

ST (0.874) 2.4835E-04
ST (0.874) 3.7318E-04

ST (0.874) 5.6667E-04
ST (0.874) 4.5628E-04

ST (0.874) 3.6680E-04
ST (0.874) 3.6680E-04

ST (0.874) 2.7834E-04
ST (0.874) 2.7834E-04

ST (0.874) 2.7710E-04
ST (0.874) 2.7710E-04

ST (0.874) 2.3802E-04
ST (0.874) 2.3802E-04

ST (0.874) 2.1698E-04
ST (0.874) 2.1698E-04

ST (0.874) 2.3407E-04
ST (0.874) 2.3407E-04

ST (0.874) 4.2785E-06
ST (0.874) 4.2785E-06

ST (0.874) 1.6666E-05
ST (0.874) 1.6666E-05

ST (0.874) 3.1522E-05
ST (0.874) 3.1522E-05

ST (0.874) 1.3333E-04
ST (0.874) 1.3333E-04

ST (0.874) 2.9368E-04
ST (0.874) 2.9368E-04

TIME (SEC) -6.686
TIME (SEC) -0.917

TIME (SEC) -2.379
TIME (SEC) -4.502

TIME (SEC) -4.162
TIME (SEC) -2.013

TIME (SEC) -0.557
TIME (SEC) -0.014

TIME (SEC) -0.557
TIME (SEC) -0.014

TIME (SEC) -0.055
TIME (SEC) -0.115

TIME (SEC) -0.176
TIME (SEC) -0.176

TIME (SEC) 0.439
TIME (SEC) 0.439

TIME (SEC) -0.120
TIME (SEC) -0.120

TIME (SEC) -0.103
TIME (SEC) -0.103

TIME (SEC) -0.081
TIME (SEC) -0.081

TIME (SEC) -0.399
TIME (SEC) -0.399

TIME (SEC) -4.259
TIME (SEC) -4.259

TIME (SEC) -0.902
TIME (SEC) -0.902

TIME (SEC) -1.762
TIME (SEC) -1.762

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1216E-01 (SLUGS/FT²-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.1 2.5977E 05 2.3753E 06 2.3753E 06 3.700
 RE/METER REL H/HS(1.000) H/HS(0.907) H/HS(0.874)
 LENGTH(METER) PT(ATM) TT(DEG K) HIT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 MACH 5.17 7.9177E 05 2.3753E 06 3.700 121.32 2037.0 514.57 1.0000 1.0000 1.0000 69
 LENGTH(FT) PT(PST) TT(DEG R) HIT(TU/LRM) RS(FT) HAM/HT RUN NO.

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	0.255	0.0098	0.0098	0.0112	0.0118	39	39	0.256	0.1055	0.1055	0.1206	0.1270
22	22	0.256	0.0137	0.0137	0.0155	0.0158	40	40	0.257	0.1052	0.1052	0.1202	0.1266
23	23	0.255	0.0311	0.0311	0.0356	0.0375	41	41	0.257	0.1329	0.1329	0.1519	0.1600
24	24	0.255	0.0327	0.0327	0.0374	0.0393	42	42	0.257	0.1361	0.1361	0.1556	0.1634
25	25	0.255	0.0318	0.0318	0.0363	0.0383	43	43	0.258	0.1017	0.1017	0.1163	0.1225
26	26	0.254	0.0120	0.0120	0.0137	0.0144	44	44	0.257	0.0822	0.0822	0.0940	0.0990
27	27	0.254	0.0061	0.0061	0.0070	0.0073	45	45	0.256	0.0656	0.0656	0.0749	0.0789
28	28	0.254	0.0028	0.0028	0.0032	0.0033	46	46	0.256	0.0576	0.0576	0.0658	0.0693
29	29	0.254	0.0008	0.0008	0.0009	0.0009	47	47	0.257	0.0595	0.0595	0.0680	0.0717
30	30	0.253	0.0005	0.0005	0.0006	0.0007	48	48	0.256	0.0527	0.0527	0.0602	0.0635
31	31	0.253	0.0015	0.0015	0.0017	0.0018	49	49	0.256	0.0513	0.0513	0.0586	0.0617
32	32	0.276	0.0094	0.0094	0.0108	0.0114	50	50	0.256	0.0521	0.0521	0.0596	0.0628
33	33	0.254	0.0020	0.0020	0.0022	0.0024	51	51	0.253	0.0011	0.0011	0.0012	0.0013
34	34	0.254	0.0053	0.0053	0.0061	0.0064	52	52	0.254	0.0015	0.0015	0.0017	0.0018
35	35	0.254	0.0090	0.0090	0.0103	0.0109	53	53	0.254	0.0087	0.0087	0.0099	0.0103
36	36	0.255	0.0154	0.0154	0.0176	0.0185	54	54	0.256	0.0330	0.0330	0.0378	0.0393
37	37	0.255	0.0319	0.0319	0.0365	0.0384	55	55	0.256	0.0330	0.0330	0.0378	0.0393
38	38	0.256	0.0891	0.0891	0.1019	0.1073			0.256	0.0883	0.0883	0.1010	0.1064

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***											
MACH	RE/METER	REL	THW(EGG K)	THW(EGG R)	Q(W/GCM2)	Q(BTU/FT2-SEC)	QS(W/GCM2)	QS(BTU/FT2-S-C)	SI(0.874)	SI(0.907)	TIME(SEC)
5.10	2.5977E 05	2.3753E 06	0.914	0.914	PI(ATM)	PI(PSI)	TI(DEG K)	TI(DEG R)	HI(JOULE/KG)	HI(FTU/LBM)	TEST NO.
5.10	7.9177E 05	2.3753E 06	3.007	3.007	LENGTH(FT)	LENGTH(FT)	2037.0	514.57	1.000	1.000	158
											RUN NO.
											69
21	274.2	547.6	0.109	0.109	0.096	0.096	11.121	9.799	4.1750E-05	4.2977E-05	-1.665
22	275.2	549.3	0.152	0.152	0.134	0.134	11.109	9.789	5.198E-05	6.1306E-05	-0.776
23	304.1	547.4	0.146	0.146	0.305	0.305	11.123	9.801	1.3236E-04	1.3942E-04	-0.586
24	305.0	547.2	0.364	0.364	0.320	0.320	11.125	9.802	1.3902E-04	1.4643E-04	-1.271
25	303.4	546.1	0.254	0.254	0.312	0.312	11.133	9.810	1.3526E-04	1.4247E-04	-0.740
26	302.1	545.6	0.193	0.193	0.118	0.118	11.137	9.813	5.0918E-05	5.3630E-05	-0.764
27	302.7	544.8	0.268	0.268	0.260	0.260	11.143	9.818	2.5968E-05	2.7349E-05	-1.445
28	302.4	544.3	0.331	0.331	0.327	0.327	11.147	9.822	1.1829E-05	1.2459E-05	-2.641
29	302.1	543.8	0.308	0.308	0.307	0.307	11.150	9.825	3.2331E-06	3.4051E-06	-6.393
30	302.9	543.3	0.306	0.306	-0.006	-0.006	11.153	9.828	-2.4025E-06	-2.5303E-06	4.068
31	321.7	543.0	0.317	0.317	0.015	0.015	11.156	9.830	-6.3815E-06	-6.7207E-06	1.245
32	328.5	591.5	0.102	0.102	0.090	0.090	11.159	9.834	-4.0168E-05	-4.2384E-05	1.719
33	302.2	543.9	0.322	0.322	0.019	0.019	11.149	9.824	8.2073E-06	8.7492E-06	-2.024
34	302.5	544.6	0.359	0.359	0.052	0.052	11.144	9.819	2.2613E-05	2.3816E-05	-1.396
35	302.9	545.2	0.191	0.191	0.089	0.089	11.139	9.815	3.4410E-05	4.0456E-05	-1.801
36	303.6	546.5	0.171	0.171	0.151	0.151	11.130	9.807	6.5433E-05	6.8920E-05	-0.741
37	304.4	547.9	0.355	0.355	0.313	0.313	11.120	9.798	1.3579E-04	1.4304E-04	-0.141
38	305.0	549.0	0.990	0.990	0.873	0.873	11.111	9.791	3.7905E-04	3.9925E-04	-0.366
39	304.9	548.9	1.173	1.173	1.029	1.029	11.112	9.791	4.4882E-04	4.7278E-04	-0.710
40	305.6	550.1	1.168	1.168	1.099	1.099	11.103	9.783	4.4737E-04	4.7128E-04	-0.851
41	306.7	550.7	1.475	1.475	1.299	1.299	11.098	9.779	5.6515E-04	5.9537E-04	-0.389
42	306.0	552.1	1.509	1.509	1.330	1.330	11.088	9.770	5.7904E-04	6.1003E-04	-0.143
43	306.8	552.3	1.128	1.128	0.994	0.994	11.087	9.769	4.3265E-04	4.5581E-04	0.126
44	306.5	551.7	0.911	0.911	0.803	0.803	11.091	9.773	3.4467E-04	3.6838E-04	0.083
45	305.6	550.0	0.728	0.728	0.641	0.641	11.104	9.784	2.7684E-04	2.9373E-04	0.035
46	305.6	550.0	0.639	0.639	0.563	0.563	11.104	9.784	2.4482E-04	2.5790E-04	0.019
47	305.6	550.0	0.661	0.661	0.582	0.582	11.102	9.782	2.5315E-04	2.6668E-04	0.023
48	305.3	549.5	0.585	0.585	0.516	0.516	11.108	9.788	2.2416E-04	2.3613E-04	0.016
49	305.3	548.9	0.570	0.570	0.502	0.502	11.108	9.787	2.1810E-04	2.2975E-04	0.019
50	304.9	548.9	0.579	0.579	0.510	0.510	11.112	9.791	2.2171E-04	2.3354E-04	0.013
51	301.9	543.4	-0.012	-0.012	-0.011	-0.011	11.153	9.827	-4.6198E-06	-4.8654E-06	1.017
52	302.6	544.7	0.117	0.117	0.085	0.085	11.143	9.819	6.4752E-06	6.8198E-06	-3.746
53	302.8	545.1	0.197	0.197	0.085	0.085	11.140	9.816	3.6959E-05	3.8927E-05	-1.135
54	304.9	548.8	0.367	0.367	0.324	0.324	11.113	9.792	1.4054E-04	1.4804E-04	-0.280
55	305.5	549.9	0.981	0.981	0.864	0.864	11.104	9.784	3.7571E-04	3.9578E-04	-0.464

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1359E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NO. 158
RUN NO. 69

RS(METER) 0.3048
RS(FT) 1.0000

PI(ATM) 6.25
PI(PST) 121.32

PI(HT) 1.2167E+06
PI(TU/LBP) 523.20

PI(HT) 1.0000

CHAN	T/C	H/HT	Q/QS	H/HS(I.000)	H/HS(C.937)	H/HS(C.874)	H/HS(C.907)	H/HS(C.874)
66	81	0.253	0.1087	0.1087	0.1087	0.1087	0.1241	0.1307
67	82	0.254	0.1293	0.1293	0.1293	0.1293	0.1477	0.1556
68	83	0.254	0.0968	0.0968	0.0968	0.0968	0.1106	0.1165
69	84	0.254	0.0797	0.0797	0.0797	0.0797	0.0911	0.0959
70	85	0.255	0.0686	0.0686	0.0686	0.0686	0.0784	0.0825
71	86	0.255	0.0586	0.0586	0.0586	0.0586	0.0670	0.0706
72	87	0.255	0.0556	0.0556	0.0556	0.0556	0.0635	0.0669
73	88	0.256	0.0506	0.0506	0.0506	0.0506	0.0578	0.0609
74	89	0.257	0.0529	0.0529	0.0529	0.0529	0.0605	0.0637
75	90	0.256	0.0503	0.0503	0.0503	0.0503	0.0575	0.0606

CHAN	T/C	H/HT	Q/QS	H/HS(I.000)	H/HS(C.937)	H/HS(C.874)
56	71	0.249	0.0697	0.0697	0.0697	0.0697
57	72	0.249	0.0604	0.0604	0.0604	0.0604
58	73	0.249	0.0504	0.0504	0.0504	0.0504
59	74	0.249	0.0404	0.0404	0.0404	0.0404
60	75	0.251	0.0308	0.0308	0.0308	0.0308
61	76	0.250	0.0217	0.0217	0.0217	0.0217
62	77	0.251	0.0127	0.0127	0.0127	0.0127
63	78	0.251	0.0076	0.0076	0.0076	0.0076
64	79	0.253	0.0161	0.0161	0.0161	0.0161
65	80	0.253	0.0771	0.0771	0.0771	0.0771

MACH		NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		SEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***		TEST NO. 158				
5.10	5.10	RE/METER	REL LENGTH/METER	PT(A)	TT(DEC K)	HT(JOULE/KG)	RS(METER)			
5.10	5.10	2.5320E C6	0.914	8.25	1148.9	1.2167E 06	3.3048			
5.10	5.10	7.7174E 05	2.3152E C6	12.32	2068.1	523.20	1.0000			
5.10	5.10	7.7174E 05	2.3152E C6	12.32	2068.1	523.20	1.0000			
CHAN	T/C	TM(DEC K)	TM(DEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.907)	ST(O.874)	TIME(SEC)
56	71	301.6	542.9	-0.300	-0.700	11.405	10.049	-1.0197E-07	-1.0735E-07	-9.459
57	72	301.5	542.8	-0.304	-0.704	11.406	10.050	-1.6131E-06	-1.6982E-06	4.003
58	73	301.8	543.2	0.005	0.004	11.403	10.047	1.7151E-06	1.8057E-06	-3.251
59	74	302.1	543.8	0.004	0.004	11.398	10.044	1.6746E-06	1.7631E-06	-6.571
60	75	302.7	544.9	0.009	0.008	11.391	10.037	3.2891E-06	3.4630E-06	-6.822
61	76	303.2	545.7	0.020	0.017	11.384	10.031	7.4651E-06	7.7968E-06	-4.380
62	77	303.5	546.4	0.030	0.027	11.379	10.027	1.1429E-05	1.2034E-05	-3.107
63	78	304.2	547.5	0.086	0.076	11.371	10.019	3.2502E-05	3.4224E-05	-1.495
64	79	305.4	549.7	0.183	0.161	11.355	10.005	6.9113E-05	7.2780E-05	-0.556
65	80	306.0	550.8	0.474	0.470	11.346	9.998	3.3123E-04	3.4892E-04	-0.312
66	81	307.0	552.6	1.431	1.385	11.333	9.986	4.6706E-04	4.9170E-04	-0.452
67	82	307.6	553.7	1.464	1.429	11.325	9.979	5.5580E-04	5.8538E-04	-0.251
68	83	308.1	554.6	1.096	0.965	11.318	9.972	4.1614E-04	4.3830E-04	0.146
69	84	308.2	554.7	0.902	0.795	11.317	9.972	3.4262E-04	3.6087E-04	0.082
70	85	308.5	555.3	0.775	0.684	11.313	9.968	2.9488E-04	3.1059E-04	0.033
71	86	308.6	555.6	0.663	0.584	11.311	9.966	2.5206E-04	2.6549E-04	-0.003
72	87	309.2	556.8	0.628	0.554	11.303	9.960	2.3899E-04	2.5174E-04	-0.060
73	88	310.1	558.2	0.571	0.503	11.292	9.949	2.1748E-04	2.2909E-04	-0.060
74	89	311.1	560.0	0.597	0.526	11.278	9.938	2.2761E-04	2.3978E-04	-0.107
75	90	310.6	559.0	0.568	0.500	11.285	9.944	2.1634E-04	2.2794E-04	-0.175

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.2115E-01 (SLUGS/FT2-SEC)

PROBE NO.= 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***

W/CH RE/METER REL 3.9443E 06 0.914
 5-10 1.3148E 06 3.5443E 06 3.000

TEST NO. 158
 RUN NO. 70
 HAW/HT 1.000
 HAW/HT 1.000

RS(METER) 0.3048
 RS(FT) 1.0000

TI(CEG K) 1166.6
 TI(CEG R) 2100.3

HI(JOULE/KG) 1.2375E C6
 HI(BTU/LBM) 532.15

PT(ATM) 14.43
 PT(PST) 212.17

H/HS(1.000) 0.2086
 H/HS(0.907) 0.2383
 H/HS(0.874) 0.0815

CFAN	T/C	FW/FT	Q/SS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CFAN	T/C	HW/HT	Q/GS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	0.249	0.0678	0.0678	0.0774	0.0815	11	11	0.253	0.2086	0.2086	0.2383	0.2510
2	2	0.251	0.1222	0.1222	0.1395	0.1459	12	12	0.253	0.2055	0.2055	0.2347	0.2472
3	3	0.252	0.2893	0.2893	0.3304	0.3479	13	13	0.252	0.2472	0.2472	0.2823	0.2972
4	4	0.253	0.2961	0.2961	0.3383	0.3562	14	14	0.252	0.2349	0.2349	0.2683	0.2825
5	5	0.253	0.3076	0.3076	0.3513	0.3700	15	15	0.252	0.2606	0.2606	0.2976	0.3134
6	6	0.254	0.3920	0.3920	0.3793	0.3995	16	16	0.247	0.0160	0.0160	0.0183	0.0192
7	7	0.254	0.3346	0.3346	0.3822	0.4026	17	17	0.247	0.0178	0.0178	0.0203	0.0214
8	8	0.254	0.2368	0.2368	0.2706	0.2850	18	18	0.249	0.0801	0.0801	0.0914	0.0952
9	9	0.254	0.2029	0.2029	0.2318	0.2441	19	19	0.250	0.1281	0.1281	0.1462	0.1559
10	10	0.253	0.1783	0.1783	0.2037	0.2145	20	20	0.251	0.3087	0.3087	0.3525	0.3712

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER PUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 4.3176E C6 3.5443E C6 3.5443E C6 3.300
 LENGTH(METER) PI(ATM) TI(DEG K) HI(JOULE/KG) RS(METER) HAM/HT 1.000
 RE/FT REL L.NG(H/FT) PT(P/SI) TT(DEG R) HT(BTU/LB) RS(FT) HAM/HT 1.000
 MACH 5.10 1.2148E C6 3.5443E C6 3.300 212.17 2100.2 532.15 1.0000

CHAN	T/C	TI(DEC K)	TI(DEC R)	L(4/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	1	306.8	552.3	1.040	0.916	15.330	13.508	2.2288E-04	2.3465E-04	0.015
2	2	315.2	556.6	1.868	1.646	15.287	13.470	4.0161E-04	4.2288E-04	0.265
3	3	310.7	559.2	4.414	3.890	15.261	13.447	9.5071E-04	1.0012E-03	0.027
4	4	311.6	560.9	4.515	3.978	15.245	13.433	9.7338E-04	1.0251E-03	-0.152
5	5	311.5	561.4	4.687	4.130	15.240	13.429	1.0109E-03	1.0646E-03	-0.295
6	6	312.8	563.0	5.055	4.454	15.225	13.415	1.0914E-03	1.1495E-03	0.006
7	7	312.7	562.9	5.095	4.489	15.226	13.416	1.0999E-03	1.1584E-03	0.279
8	8	313.2	563.7	3.604	3.176	15.217	13.409	7.7854E-04	8.1999E-04	0.439
9	9	313.0	563.4	3.088	2.721	15.221	13.412	6.6690E-04	7.0240E-04	0.442
10	10	311.8	561.2	2.718	2.395	15.242	13.430	5.8604E-04	6.1719E-04	0.449
11	11	311.6	565.9	3.181	2.803	15.246	13.433	6.8576E-04	7.2220E-04	0.494
12	12	311.6	560.8	3.133	2.761	15.246	13.434	6.7547E-04	7.1135E-04	0.529
13	13	311.0	559.8	3.771	3.323	15.256	13.443	8.1232E-04	8.5455E-04	0.567
14	14	310.5	559.0	3.586	3.159	15.264	13.450	7.7200E-04	8.1297E-04	0.576
15	15	310.2	558.3	3.980	3.506	15.271	13.456	8.5644E-04	9.0186E-04	0.597
16	16	304.4	547.9	0.246	0.217	15.373	13.546	5.2649E-05	5.5420E-05	-0.033
17	17	304.2	547.5	0.274	0.241	15.379	13.550	5.8436E-05	6.1511E-05	0.152
18	18	306.9	552.4	1.228	1.082	15.329	13.507	2.6315E-04	2.7704E-04	0.174
19	19	308.4	555.2	1.959	1.727	15.302	13.483	4.2078E-04	4.4305E-04	0.338
20	20	309.4	557.4	4.718	4.157	15.280	13.464	1.0146E-03	1.0684E-03	0.150

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6494E-01 (SLUGS/FT2-SEC)

PROBE VO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH	REL	REL	REL	REL	REL	REL	REL	REL	REL	TEST NO.			
5.10	4.2781E C6	3.9118E C6	3.9118E C6	3.9118E C6	3.9118E C6	3.9118E C6	3.9118E C6	3.9118E C6	3.9118E C6	158			
MACH	RE/METER	LENGTH(METER)	PI(ATM)	TY(DEG K)	HT(JOULE/KG)	RS(METER)	HAM/HT	RS(FT)	HAM/HT	RUN NO.			
5.10	4.2781E C6	0.914	14.43	1172.5	1.2441E 06	0.3048	1.000	0.3048	1.000	70			
	REL	LENGTH(FT)	PT(P/SI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAM/HT	RS(FT)	HAM/HT				
	REL	LENGTH(FT)	PT(P/SI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAM/HT	RS(FT)	HAM/HT				
	3.9118E C6	3.000	212.17	2110.5	535.01	1.0000	1.000	1.0000	1.000				
CHAN	T/O	FW/HT	Q/J	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	C.450	C.0516	C.0589	0.0620	0.0620	39	39	0.251	0.3625	0.3625	0.4139	0.4350
22	22	C.252	C.0584	0.1124	0.1184	0.1184	40	40	0.253	0.3447	0.3447	0.3937	0.4140
23	23	0.250	C.1662	0.1997	0.1997	0.1997	41	41	0.252	0.3449	0.3449	0.3939	0.4140
24	24	C.250	C.1684	0.1923	0.2024	0.2024	42	42	0.254	0.3273	0.3273	0.3739	0.3930
25	25	C.249	C.1674	0.1911	0.2012	0.2012	43	43	0.254	0.3273	0.3273	0.3739	0.3930
26	26	C.248	C.1706	0.0806	0.0849	0.0849	44	44	0.253	0.1987	0.1987	0.2269	0.2390
27	27	C.248	C.0568	0.0648	0.0682	0.0682	45	45	0.251	0.1901	0.1901	0.2170	0.2285
28	28	C.247	C.0434	0.0434	0.0521	0.0521	46	46	0.251	0.1913	0.1913	0.2185	0.2300
29	29	C.246	C.0293	0.0293	0.0352	0.0352	47	47	0.251	0.2258	0.2258	0.2578	0.2714
30	30	C.246	C.0157	0.0157	0.0179	0.0179	48	48	0.250	0.2371	0.2371	0.2707	0.2850
31	31	C.245	C.0087	0.0087	0.0099	0.0104	49	49	0.250	0.2419	0.2419	0.2761	0.2907
32	32	C.245	C.0221	0.0221	0.0252	0.0266	50	50	0.250	0.2649	0.2649	0.3024	0.3183
33	33	C.245	C.0345	0.0345	0.0394	0.0414	51	51	0.245	0.0026	0.0026	0.0029	0.0031
34	34	C.248	C.0916	0.0516	0.0619	0.0619	52	52	0.247	0.0320	0.0320	0.0386	0.0480
35	35	C.248	C.0710	0.0810	0.0810	0.0853	53	53	0.247	0.0649	0.0649	0.0741	0.0780
36	36	C.250	C.0899	0.0899	0.1026	0.1090	54	54	0.251	0.1250	0.1250	0.1428	0.1503
37	37	C.251	C.1283	0.1283	0.1465	0.1543	55	55	0.252	0.3013	0.3013	0.3441	0.3624
38	38	C.252	C.3317	0.3317	0.3856	0.4061							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 3.9118E 06 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 4.2781E C6 0.914 14.43 1172.5 1.2441E C6 0.3048 1.000 HAM/HT RUN NO. 70
 5.10 1.3035E C6 3.9118E 06 REL LENGTH(FT) LENGTH(FT) TT(DEG R) HT(BTU/LRM) RS(FT) HAM/HT 1.0000 1.0000

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	CS(BTU/FT2-SEC)	STIG(9C7)	ST(10-874)	TIME(SEC)
21	21	305.6	537.3	0.793	0.699	15.389	13.560	1.7002E-04	1.7901E-04	0.138	
22	22	311.8	561.2	1.511	1.332	15.351	13.526	3.2466E-04	3.4188E-04	0.415	
23	23	307.9	557.9	2.556	2.252	15.384	13.555	5.4792E-04	5.7691E-04	0.193	
24	24	309.3	556.8	2.593	2.285	15.394	13.564	5.5544E-04	5.8480E-04	0.074	
25	25	308.4	555.1	2.580	2.274	15.411	13.579	5.5211E-04	5.8126E-04	0.253	
26	26	306.8	552.3	1.089	0.960	15.422	13.589	2.3292E-04	2.4521E-04	0.195	
27	27	305.9	550.7	0.877	0.772	15.439	13.604	1.8719E-04	1.9705E-04	0.200	
28	28	304.7	548.5	0.854	0.751	15.454	13.617	1.4312E-04	1.5065E-04	0.226	
29	29	304.3	547.8	0.243	0.400	15.476	13.636	9.6880E-05	1.0176E-04	0.191	
30	30	303.5	547.0	0.119	0.214	15.491	13.649	5.1699E-05	5.4415E-05	0.174	
31	31	302.5	548.2	0.135	0.302	15.479	13.639	2.8675E-05	3.0180E-05	0.184	
32	32	302.9	550.6	0.343	0.470	15.456	13.618	7.2566E-05	7.6799E-05	0.207	
33	33	302.6	552.6	0.523	0.701	15.436	13.601	1.6999E-04	1.8795E-04	0.229	
34	34	307.0	553.7	1.095	0.965	15.425	13.591	2.3405E-04	2.4440E-04	0.227	
35	35	309.3	556.3	1.384	1.220	15.399	13.568	2.9640E-04	3.1206E-04	0.227	
36	36	310.6	559.1	1.972	1.738	15.371	13.544	4.2317E-04	4.4558E-04	0.311	
37	37	311.5	561.4	5.183	4.567	15.349	13.525	1.1137E-03	1.1728E-03	0.289	
38	38	312.5	560.1	5.282	4.654	15.362	13.536	1.1954E-03	1.2588E-03	0.050	
39	39	313.3	563.9	5.568	4.906	15.324	13.503	1.1368E-03	1.1972E-03	-0.024	
40	40	312.5	562.9	5.290	4.661	15.338	13.515	1.1375E-03	1.1979E-03	0.165	
41	41	314.4	566.0	5.009	4.413	15.304	13.485	1.0796E-03	1.1371E-03	0.286	
42	42	314.5	566.1	3.478	3.064	15.303	13.484	7.4970E-04	7.8960E-04	0.395	
43	43	313.6	564.5	3.043	2.682	15.318	13.498	6.5535E-04	6.9018E-04	0.402	
44	44	311.5	560.7	2.919	2.572	15.356	13.531	6.2687E-04	6.6009E-04	0.421	
45	45	311.0	559.8	2.940	2.590	15.364	13.538	6.3098E-04	6.6440E-04	0.447	
46	46	311.2	560.2	3.468	3.056	15.361	13.535	7.4453E-04	7.8399E-04	0.482	
47	47	310.1	558.1	3.647	3.213	15.381	13.553	7.8188E-04	8.2324E-04	0.503	
48	48	310.2	558.4	3.719	3.277	15.379	13.551	7.9756E-04	8.3977E-04	0.498	
49	49	309.2	556.8	4.078	3.593	15.395	13.565	8.7342E-04	9.1959E-04	0.500	
50	50	303.4	550.7	0.040	0.035	15.499	13.657	8.4357E-06	8.8782E-06	0.683	
51	51	306.0	557.8	1.003	0.884	15.454	13.617	1.0563E-04	1.1119E-04	0.175	
52	52	306.6	559.7	1.003	0.884	15.443	13.608	2.1405E-04	2.2532E-04	0.194	
53	53	310.9	559.7	1.695	1.695	15.366	13.539	4.1239E-04	4.3423E-04	0.247	
54	54	312.2	561.9	4.624	4.074	15.344	13.520	9.9387E-04	1.0466E-03	0.153	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6358E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION		APES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***		TEST NO. 158					
REL LENGTH (FEET)		HT (INCHES)		RS (METER)		HAW/HT		TEST RUN NO. 70	
5.10	3.7731E C6	3.7731E C6	3.7731E C6	1197.7	1197.7	0.3048	1.0000	0.3048	1.0000
5.10	3.7731E C6	3.7731E C6	3.7731E C6	35.8	35.8	1.0000	1.0000	1.0000	1.0000
56	71	C.240	C.240	64	64	0.2605	0.2605	0.2972	0.2972
57	72	C.239	C.0178	67	62	0.249	0.2963	0.2963	0.3381
58	73	C.240	C.0199	68	83	0.250	0.2199	0.2510	0.3559
59	74	0.241	C.0236	69	84	0.251	0.1942	0.2217	0.2642
60	75	C.242	C.0294	70	85	0.251	0.1896	0.2165	0.2334
61	76	C.243	0.0362	71	86	0.252	0.1899	0.2169	0.2280
62	77	C.243	C.0415	72	87	0.252	0.1899	0.2169	0.2284
63	78	0.244	0.0542	73	88	0.254	0.2217	0.2532	0.2666
64	79	0.246	C.0782	74	89	0.255	0.2093	0.2390	0.2518
65	80	C.246	C.2464	75	90	0.254	0.2540	0.2905	0.3057

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AXES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										TEST NO. 158
										RUN NO. 70
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT			
5.10	4.126E C6	3.7731E 06	0.514	1197.7	1.2735E C6	3.3048	1.0000			
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT			
5.10	1.2277E C6	3.7731E 06	3.000	2155.8	547.65	1.0000	1.0000			
CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	G(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(C.9CT)	ST(O.874)	TIME(SEC)
56	71	303.7	546.7	0.133	0.117	15.972	14.073	2.7811E-05	2.9258E-05	-0.262
57	72	303.2	545.7	0.284	0.251	15.982	14.082	5.9550E-05	6.2645E-05	0.148
58	73	303.7	546.7	0.318	0.280	15.972	14.073	6.6541E-05	7.0002E-05	0.060
59	74	304.5	548.0	0.377	0.337	15.959	14.062	7.8970E-05	8.3081E-05	-0.019
60	75	305.6	550.0	0.468	0.413	15.939	14.044	9.8351E-05	1.0348E-04	-0.140
61	76	306.9	552.5	0.576	0.508	15.915	14.023	1.2111E-04	1.2744E-04	-0.250
62	77	307.7	553.8	0.660	0.582	15.901	14.011	1.3692E-04	1.4618E-04	-0.306
63	78	309.2	556.5	0.860	0.758	15.875	13.988	1.8134E-04	1.9084E-04	-0.317
64	79	311.2	560.4	1.239	1.091	15.837	13.954	2.6179E-04	2.7854E-04	-0.320
65	80	312.0	561.6	3.899	3.435	15.792	13.943	8.2479E-04	8.6814E-04	-0.564
66	81	313.9	565.0	4.114	3.625	15.769	13.915	8.7218E-04	9.1813E-04	-0.014
67	82	315.2	567.3	4.672	4.116	15.746	13.894	9.9202E-04	1.0444E-03	0.183
68	83	316.5	569.6	3.462	3.051	15.731	13.874	7.3630E-04	7.7521E-04	0.170
69	84	317.3	571.1	3.094	2.691	15.712	13.862	6.5024E-04	6.8446E-04	0.225
70	85	318.4	573.8	2.980	2.626	15.704	13.844	6.3517E-04	6.6882E-04	0.247
71	86	319.8	575.6	3.478	3.064	15.687	13.822	7.4260E-04	7.8201E-04	0.217
72	87	321.7	579.0	3.276	2.886	15.653	13.793	7.0102E-04	7.3832E-04	0.285
73	88	323.5	582.3	3.968	3.496	15.621	13.764	8.5108E-04	8.9646E-04	0.307
74	89	323.5	582.3	4.502	3.967	15.651	13.791	9.6359E-04	1.0149E-03	
75	90	321.8	579.2							

FREE-STREAM DENSITY--VELOCITY PRODUCT = 3-5766E-01 (SLUGS/FT2-SEC)

PROBE NO.= 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACF 5.10 1.5769E C6 1.4438E 06 4.76 1096.8 1.1563E C6 0.3048 1.000 158
 WACH 5.10 4.9125E C3 1.4438E 06 59.95 1974.2 497.22 1.0000 1.000 71
 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JGULE/KG) RS(METER) HAW/HT TEST NO.
 REL LENGTH(FT) PT(PST) TT(DEG R) HT(TU/LEM) RS(FT) HAW/HT RUN NO.
 CONSTANT SET 22.1

CHAN	T/C	FW/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	C.266	C.0004	C.0005	C.0005	C.0005	11	11	C.267	0.0575	C.0575	0.0659	0.0695
2	2	C.266	C.0015	0.0017	C.0018	C.0018	12	12	C.265	0.0586	C.0588	0.0673	0.0709
3	3	C.266	C.0080	0.0092	0.0097	0.0097	13	13	0.267	0.0608	0.0608	0.0696	0.0734
4	4	C.266	C.0110	0.0126	0.0133	0.0133	14	14	0.267	0.0565	0.0565	0.0647	0.0683
5	5	C.266	C.0169	0.0193	0.0203	0.0203	15	15	0.267	0.0436	C.0436	0.0500	0.0527
6	6	C.266	C.0206	0.0236	0.0249	0.0249	16	16	0.265	-0.0001	-0.0001	-0.0001	-0.0004
7	7	C.266	C.0267	0.0306	0.0323	0.0323	17	17	0.265	-0.0003	-0.0003	-0.0003	-0.0006
8	8	C.266	C.0468	C.0536	0.0565	0.0565	18	18	0.265	0.0005	C.0005	0.0006	0.0012
9	9	C.267	C.0526	0.0602	0.0635	0.0635	19	19	0.266	0.0010	C.0010	0.0011	0.0012
10	10	C.267	C.0516	0.0591	0.0623	0.0623	20	20	C.266	0.0073	C.0073	0.0084	0.0088

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***									
MACH	RE/METER	REL	LENGTH(FEET)	PT(ATM)	TT(DEG K)	FT(JUULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	1.578E C6	1.4438E 06	0.914	4.76	1094.8	1.1563E C6	0.3748	1.000	158
5.1C	4.8126E C5	1.4438E 06	3.000	69.95	1974.2	497.22	1.0000	1.000	71
CFAN	T/C	TM(DEG K)	TM(DEG R)	U(W/CF2)	C(BTU/FT2-SEC)	CS(W/CF2)	CS(BTU/FT2-SUC)	ST(0.874)	TIME(SEC)
1	1	305.6	530.1	0.003	0.003	6.050	2.2110E-06	2.3309E-06	0.705
2	2	305.6	530.4	0.010	0.010	8.048	6.0931E-06	6.5321E-06	0.637
3	3	305.6	530.7	0.057	0.057	8.047	4.4001E-05	4.6398E-05	0.622
4	4	306.1	530.9	0.082	0.078	8.046	6.0288E-05	6.3559E-05	0.502
5	5	306.1	531.0	0.136	0.119	8.045	9.2401E-05	9.7415E-05	0.286
6	6	306.3	531.3	0.166	0.146	8.044	1.1315E-04	1.1929E-04	0.157
7	7	306.4	531.5	0.215	0.189	8.042	1.4644E-04	1.5444E-04	0.094
8	8	306.7	532.1	0.376	0.331	8.039	2.5644E-04	2.7036E-04	0.144
9	9	306.9	532.4	0.422	0.372	8.037	2.8819E-04	3.0304E-04	0.151
10	10	306.9	532.4	0.415	0.365	8.037	2.6185E-04	2.9822E-04	0.111
11	11	306.5	532.4	0.462	0.406	8.037	3.1550E-04	3.3264E-04	0.122
12	12	306.6	548.2	0.474	0.418	8.061	3.3971E-04	3.5971E-04	0.494
13	13	306.9	552.5	0.489	0.430	8.037	3.2226E-04	3.5142E-04	0.116
14	14	306.9	552.3	0.454	0.400	8.038	3.3322E-04	3.2680E-04	0.114
15	15	307.1	552.7	0.351	0.309	8.035	3.0996E-04	3.0996E-04	0.050
16	16	307.4	549.7	-0.001	-0.001	8.052	-4.7815E-07	-5.0407E-07	0.105
17	17	305.4	549.7	-0.002	-0.002	8.052	-1.6421E-06	-1.7311E-06	1.485
18	18	305.7	550.2	0.004	0.003	8.050	2.6866E-06	2.8323E-06	0.782
19	19	305.6	550.6	0.008	0.007	8.047	5.2507E-06	5.5356E-06	0.606
20	20	306.0	550.9	0.059	0.052	8.046	4.0092E-05	4.2267E-05	0.703

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2607E-01 (SLUGS/FT2-SEC)

PRCBE NO.* 1

MACH		REL LENGTH(METER)		REL LENGTH(FT)		REL LENGTH(METER)		REL LENGTH(FT)		REL LENGTH(METER)		REL LENGTH(FT)		REL LENGTH(METER)		REL LENGTH(FT)		REL LENGTH(METER)		REL LENGTH(FT)		
5.10	5.10	1.4214E C6	1.4214E C6	3.000	3.000	4.76	4.76	69.95	69.95	1922.6	1922.6	502.29	502.29	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
5.10	5.10	4.7281E C5	4.7281E C5	1.4214E G6	1.4214E G6	3.000	3.000	69.95	69.95	1922.6	1922.6	502.29	502.29	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
CHAN	T/C	W/FT	W/CS	H/HS(1.000)	H/HS(C.507)	F/PS(10.874)	F/PS(10.874)	CFAN	T/C	F/W/HT	Q/QS	H/HS(1.000)	H/HS(10.907)	H/HS(10.874)	RS(METER)	RS(FT)	HAM/HT	HAM/HT	TEST NO.	TEST NO.	RUN NO.	RUN NO.
21	21	C.264	C.0593	C.0679	C.0679	0.0715	0.0715	39	39	C.263	0.0119	0.0119	0.0136	0.0144	0.3048	0.3048	1.000	1.000	158	158	71	71
22	22	C.264	C.0636	0.0728	0.0728	0.0767	0.0767	40	40	0.263	0.0140	0.0140	0.0160	0.0168	0.0220	0.0220	0.000	0.000				
23	23	C.264	C.0553	C.0633	C.0633	0.0667	0.0667	41	41	C.264	0.0220	0.0220	0.0251	0.0265	0.0259	0.0259	0.000	0.000				
24	24	C.264	C.0412	C.0471	C.0471	0.0497	0.0497	42	42	C.264	0.0259	0.0259	0.0297	0.0313	0.0413	0.0413	0.000	0.000				
25	25	C.264	C.0183	0.0183	0.0210	0.0221	0.0221	43	43	0.264	0.0413	0.0413	0.0462	0.0499	0.0462	0.0462	0.000	0.000				
26	26	C.264	C.0037	C.0037	0.0043	0.0045	0.0045	44	44	0.264	0.0462	0.0462	0.0532	0.0557	0.0534	0.0534	0.000	0.000				
27	27	C.263	C.0004	C.0004	C.0011	0.0011	0.0011	45	45	0.264	0.0517	0.0517	0.0552	0.0582	0.0552	0.0552	0.000	0.000				
28	28	C.263	C.0002	C.0002	0.0002	0.0002	0.0002	46	46	0.264	0.0532	0.0532	0.0592	0.0642	0.0592	0.0592	0.000	0.000				
29	29	C.263	C.0000	-0.0000	0.0000	-0.0000	-0.0000	47	47	C.264	0.0517	0.0517	0.0592	0.0642	0.0592	0.0592	0.000	0.000				
30	30	C.263	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	48	48	0.264	0.0482	0.0482	0.0552	0.0582	0.0552	0.0552	0.000	0.000				
31	31	C.263	-0.0001	-0.0001	0.0001	0.0001	0.0001	49	49	0.264	0.0338	0.0338	0.0387	0.0408	0.0387	0.0387	0.000	0.000				
32	32	C.263	-0.0001	0.0001	0.0001	0.0001	0.0001	50	50	C.263	0.0002	0.0002	0.0002	0.0003	0.0002	0.0002	0.000	0.000				
33	33	C.263	-0.0001	0.0001	0.0001	0.0001	0.0001	51	51	0.263	-0.0008	-0.0008	-0.0008	-0.0010	-0.0008	-0.0008	0.000	0.000				
34	34	C.263	-0.0001	-0.0001	-0.0001	-0.0001	-0.0001	52	52	0.263	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.000	0.000				
35	35	C.263	C.0001	C.0001	C.0001	C.0001	C.0001	53	53	0.263	0.0015	0.0015	0.0015	0.0018	0.0015	0.0015	0.000	0.000				
36	36	C.263	C.0004	C.0004	C.0004	C.0004	C.0004	54	54	0.264	0.0015	0.0015	0.0015	0.0018	0.0015	0.0015	0.000	0.000				
37	37	C.263	C.0015	C.0015	C.0015	C.0015	C.0015	55	55	0.264	0.0070	0.0070	0.0070	0.0081	0.0070	0.0070	0.000	0.000				
38	38	C.263	C.0066	C.0066	C.0066	C.0066	C.0066	56	56	0.264	0.0070	0.0070	0.0070	0.0081	0.0070	0.0070	0.000	0.000				

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 REWMETER REL LENGTH(METER) PT(ATM) TT(CEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 5.10 1.5545E 06 1.4214E 06 4.76 1107.0 1.1681E 06 0.3048 1.000 71
 MACH 5.10 REWMETER REL LENGTH(FT) PT(PST) TT(CEG R) FT(HTU/LBM) RS(FT) HAM/HT RUN NO.
 5.10 4.7381E 05 1.4214E 06 69.95 1992.6 562.29 1.6000 1.0000

CHAN	T/C	TM(DEG K)	TM(DEG R)	W(M/CM2)	C(BTU/FT2-SEC)	CS(IN/CM2)	CS(HTU/FT2-SEC)	ST(C-907)	ST10(874)	TIME(SEC)
21	21	307.0	552.6	0.483	0.426	8.148	7.179	3.2714E-04	3.4483E-04	0.045
22	22	307.4	553.4	0.518	0.456	8.143	7.175	3.2095E-04	3.6993E-04	0.117
23	23	307.1	552.8	0.397	0.397	8.147	7.178	3.0496E-04	3.2146E-04	-0.036
24	24	307.1	552.8	0.335	0.295	8.146	7.178	2.2708E-04	2.3937E-04	0.078
25	25	306.7	552.0	0.149	0.132	8.151	7.162	1.0119E-04	1.0666E-04	0.617
26	26	306.5	551.7	0.030	0.027	8.153	7.184	2.0599E-05	2.1712E-05	0.698
27	27	306.2	551.1	0.008	0.007	8.156	7.187	5.1111E-06	5.3873E-06	0.733
28	28	306.0	550.8	0.003	0.003	8.158	7.188	1.9916E-06	2.0592E-06	0.892
29	29	305.9	550.7	0.001	0.001	8.159	7.189	9.3518E-07	9.8990E-07	1.374
30	30	305.8	550.4	-0.000	-0.000	8.160	7.190	-7.5331E-08	-7.9399E-08	-7.171
31	31	305.7	550.2	0.000	0.000	8.161	7.191	-2.9187E-07	-3.0763E-07	-2.920
32	32	305.6	550.2	0.001	0.001	8.161	7.191	6.4808E-07	6.8307E-07	4.588
33	33	305.7	550.3	0.001	0.001	8.161	7.191	6.2053E-07	6.5404E-07	2.510
34	34	305.6	550.4	-0.001	-0.000	8.160	7.190	-3.7029E-07	-3.9029E-07	-0.501
35	35	305.8	550.4	0.001	0.001	8.169	7.190	6.3790E-07	6.7235E-07	1.481
36	36	306.0	550.8	0.002	0.003	8.158	7.188	2.0440E-06	2.1545E-06	0.972
37	37	306.1	550.9	0.012	0.011	8.157	7.188	6.1487E-06	6.5890E-06	0.767
38	38	306.2	551.2	0.054	0.047	8.156	7.186	3.6435E-05	3.8404E-05	0.629
39	39	306.3	551.3	0.097	0.086	8.155	7.185	6.5754E-05	6.9307E-05	0.426
40	40	306.4	551.6	0.114	0.100	8.153	7.184	7.7062E-05	8.1227E-05	0.266
41	41	306.9	552.5	0.179	0.158	8.148	7.180	1.2121E-04	1.2777E-04	0.079
42	42	307.1	552.9	0.211	0.186	8.148	7.178	1.4310E-04	1.5084E-04	0.030
43	43	307.4	553.3	0.336	0.296	8.144	7.176	2.2797E-04	2.4031E-04	0.078
44	44	307.5	553.5	0.376	0.331	8.143	7.175	2.5480E-04	2.6866E-04	0.101
45	45	307.4	553.3	0.380	0.335	8.144	7.176	2.5739E-04	2.7133E-04	0.044
46	46	307.5	553.5	0.372	0.328	8.143	7.175	2.5227E-04	2.6592E-04	0.034
47	47	307.6	553.6	0.493	0.382	8.142	7.174	2.9267E-04	3.0527E-04	0.058
48	48	307.5	553.4	0.421	0.346	8.143	7.175	2.8529E-04	3.0073E-04	0.047
49	49	307.3	553.1	0.276	0.243	8.145	7.175	2.6603E-04	2.8043E-04	0.047
50	50	306.1	551.0	0.002	0.002	8.157	7.177	1.8675E-06	1.9686E-06	-0.140
51	51	306.9	550.9	-0.007	-0.006	8.157	7.188	-4.5685E-06	-4.8153E-06	4.944
52	52	306.9	550.9	0.001	0.001	8.159	7.189	9.4865E-07	9.9988E-07	0.393
53	53	306.5	551.7	0.012	0.011	8.152	7.183	8.1501E-06	8.5907E-06	8.313
54	54	306.7	552.0	0.057	0.051	8.151	7.182	3.8856E-05	4.0957E-05	1.164
55	55									0.785

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2521E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PAGE	RE/METER	REL	LENGTH(FT)	PI(ATM)	TT(CEC K)	PT(JUCULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	1.5155E C6	1.3698E C6	0.914	4.76	1121.9	1.1853E C6	0.3048	1.0000	158
PAGE	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(CEC R)	HT(LBU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	4.6226E CE	1.3698E C6	3.000	69.95	2019.4	509.70	1.0000	1.0000	71

CFAN	T/C	H/W/HT	Q/QS	F/H(S(1.000))	H/H(S(0.507))	H/H(S(0.874))	CFAN	T/C	H/W/HT	Q/QS	H/H(S(1.000))	H/H(S(0.907))	H/H(S(0.874))
56	71	0.255	C.0001	C.0001	0.0001	0.0001	66	81	0.260	0.0171	0.0171	0.0196	0.0207
57	72	0.259	-C.0002	-0.0002	-0.0002	-0.0002	67	82	0.261	0.0270	0.0270	0.0309	0.0325
58	73	0.259	C.0001	0.0001	0.0001	0.0001	68	83	0.261	0.0449	0.0449	0.0514	0.0541
59	74	0.255	C.0000	0.0000	0.0000	0.0000	69	84	0.261	0.0504	0.0504	0.0577	0.0608
60	75	0.260	C.0001	0.0001	0.0001	0.0001	70	85	0.262	0.0541	0.0541	0.0619	0.0652
61	76	0.260	C.0000	0.0000	0.0000	0.0000	71	86	0.262	0.0533	0.0533	0.0610	0.0643
62	77	0.260	C.0001	0.0001	0.0001	0.0001	72	87	0.262	0.0572	0.0572	0.0654	0.0689
63	78	0.260	C.0004	0.0004	0.0004	0.0004	73	88	0.262	0.0578	0.0578	0.0661	0.0697
64	79	0.260	C.0007	0.0007	0.0007	0.0007	74	89	0.263	0.0616	0.0616	0.0705	0.0743
65	80	0.260	C.0081	0.0081	0.0081	0.0081	75	90	0.263	0.0445	0.0445	0.0509	0.0537

405

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER COFFEY FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 REL LENGTH/FEET 1.3658E 06 REL LENGTH/FT 3.333
 MACH 5.10 REL LENGTH/CM 1.3658E 06 REL LENGTH/CM 3.333
 TEST NO. 158
 RUN NO. 71

CHAN	T/C	T (DEG K)	T (DEG R)	U (M/CM2)	C (BTU/FT2-SEC)	CS (W/CM2)	CS (BTU/FT2-SEC)	ST (C.5C7)	ST (O.874)	TIME (SEC)
56	71	306.1	551.0	0.001	0.001	8.319	7.330	3.9705E-07	4.1836E-07	12.088
57	72	306.1	551.0	-0.001	-0.001	8.320	7.331	-9.7530E-07	-1.0277E-06	-2.291
58	73	306.2	551.1	0.000	0.000	8.319	7.330	3.2529E-07	3.4275E-07	7.363
59	74	306.2	551.2	0.000	0.000	8.318	7.329	1.4385E-07	1.5157E-07	16.303
60	75	306.4	551.5	0.001	0.000	8.316	7.328	3.6087E-07	3.8026E-07	4.692
61	76	306.4	551.6	0.000	0.000	8.316	7.328	2.6009E-07	2.7404E-07	4.117
62	77	306.5	551.7	0.001	0.001	8.316	7.327	5.4582E-07	5.7936E-07	3.340
63	78	306.5	551.7	0.003	0.003	8.316	7.327	1.9793E-06	2.0857E-06	1.730
64	79	306.9	552.3	0.006	0.005	8.312	7.324	3.9985E-06	4.2134E-06	1.101
65	80	307.1	552.9	0.067	0.059	8.313	7.325	4.5170E-05	4.7598E-05	0.791
66	81	307.2	552.9	0.142	0.126	8.308	7.321	9.5495E-05	1.0063E-04	0.362
67	82	307.5	553.6	0.224	0.197	8.305	7.318	1.5025E-04	1.5834E-04	0.308
68	83	308.2	554.8	0.373	0.328	8.298	7.312	2.5008E-04	2.6855E-04	0.341
69	84	308.4	555.1	0.418	0.368	8.296	7.310	2.8072E-04	2.9584E-04	0.316
70	85	308.8	555.8	0.449	0.395	8.292	7.307	3.0125E-04	3.1748E-04	-0.017
71	86	308.5	556.0	0.442	0.390	8.291	7.300	2.9701E-04	3.1302E-04	-0.010
72	87	309.2	556.5	0.474	0.418	8.289	7.303	3.1842E-04	3.3559E-04	-0.011
73	88	309.4	557.0	0.479	0.422	8.286	7.301	3.2195E-04	3.3922E-04	0.328
74	89	309.8	557.7	0.510	0.450	8.282	7.297	3.4327E-04	3.6180E-04	0.011
75	90	309.8	557.7	0.368	0.325	8.282	7.297	2.4781E-04	2.6118E-04	-0.068

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2396E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center Moffett Field Calif. ** PRELIMINARY DATA ***
 WASH 5.10 3.48366 1.4 2.26028 1.2 0.714 4.00 113.02 1.2041E 06 0.3748 1.00 158
 MACH 5.10 7.42261 0.5 2.24028 0.5 3.000 117.59 2049.7 517.81 1.0000 1.0000 72
 H/WHT CONSTRAINT SET ZZ/

CHRN	T/C	L/WHT	W/C	H/WHS(1.000)	H/WHS(0.907)	H/WHS(0.874)	CLAN	T/C	H/WHT	W/C	H/WHS(1.000)	H/WHS(0.907)	H/WHS(0.874)
1	1	0.256	0.0003	0.0004	0.0004	0.0004	11	11	0.258	0.0483	0.0483	0.0553	0.0582
2	2	0.256	0.0011	0.0012	0.0012	0.0012	12	12	0.256	0.0500	0.0500	0.0571	0.0602
3	3	0.257	0.0060	0.0088	0.0072	0.0072	13	13	0.258	0.0512	0.0512	0.0585	0.0616
4	4	0.257	0.0081	0.0092	0.0097	0.0097	14	14	0.258	0.0451	0.0451	0.0516	0.0543
5	5	0.257	0.0124	0.0142	0.0149	0.0149	15	15	0.258	0.0307	0.0307	0.0351	0.0359
6	6	0.257	0.0154	0.0174	0.0185	0.0185	16	16	0.255	-0.0002	-0.0002	-0.0002	-0.0003
7	7	0.257	0.0193	0.0226	0.0238	0.0238	17	17	0.255	-0.0001	-0.0001	-0.0001	-0.0001
8	8	0.258	0.0370	0.0423	0.0446	0.0446	18	18	0.256	0.0003	0.0003	0.0004	0.0004
9	9	0.258	0.0432	0.0494	0.0521	0.0521	19	19	0.256	0.0010	0.0010	0.0012	0.0013
10	10	0.259	0.0427	0.0488	0.0514	0.0514	20	20	0.256	0.0050	0.0050	0.0057	0.0060

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOPFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 2.4536E C6 2.2822E C6 8.00 PT(PSI) 117.59 2048.7 517.81 1.0000
 SATO R/METER 2.4536E C6 2.2822E C6 8.00 PT(PSI) 117.59 2048.7 517.81 1.0000
 PACH RE/FT 7.5000E C5 2.2802E C6 0.914 LENGTH(FT) 3.000
 S-10 REL 2.2822E C6 0.914 LENGTH(FT) 3.000
 REL 2.2802E C6 0.914 LENGTH(FT) 3.000

CHAN	T/C	TN(DCS K)	TN(DCS R)	Q(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	SI(0.907)	SI(0.874)	TIME(SEC)
1	1	306.6	551.9	0.004	0.003	11.010	9.761	1.4141E-06	1.4995E-06	0.181
2	2	307.2	552.9	0.012	0.010	11.003	9.695	4.5641E-06	4.8079E-06	0.344
3	3	307.5	553.6	0.050	0.050	10.998	9.591	2.5596E-05	2.7385E-05	0.571
4	4	307.7	553.9	0.289	0.078	10.995	9.688	3.4991E-05	3.6862E-05	0.453
5	5	307.9	554.2	0.136	0.120	10.993	9.686	5.3740E-05	5.6614E-05	0.277
6	6	308.2	554.7	0.169	0.149	10.989	9.683	6.6470E-05	7.0236E-05	0.152
7	7	308.4	555.1	0.238	0.192	10.986	9.681	8.5901E-05	9.0497E-05	0.044
8	8	308.6	555.3	0.406	0.358	10.978	9.673	1.6054E-04	1.6913E-04	0.050
9	9	309.3	555.8	0.474	0.418	10.974	9.670	1.8756E-04	1.9761E-04	0.094
10	10	309.4	556.9	0.468	0.413	10.973	9.669	1.8520E-04	1.9512E-04	0.097
11	11	309.4	556.9	0.531	0.467	10.973	9.669	2.0075E-04	2.0999E-04	0.093
12	12	307.6	552.6	0.550	0.485	11.005	9.697	2.1683E-04	2.2841E-04	0.445
13	13	309.4	557.0	0.561	0.495	10.973	9.668	2.2195E-04	2.3384E-04	0.080
14	14	309.3	556.7	0.485	0.436	10.974	9.670	1.9571E-04	2.0619E-04	0.064
15	15	309.3	557.1	0.336	0.296	11.014	9.668	1.3303E-04	1.4016E-04	-0.071
16	16	306.3	551.3	-0.002	-0.002	11.014	9.705	-9.1395E-07	-9.6271E-07	0.182
17	17	306.3	551.3	-0.001	-0.001	11.014	9.705	-5.3894E-07	-5.6770E-07	0.961
18	18	306.8	552.2	0.001	0.003	11.008	9.699	1.3549E-06	1.4494E-06	1.237
19	19	307.1	552.8	0.011	0.010	11.003	9.695	4.5182E-06	4.759 E-06	0.858
20	20	307.4	553.3	0.055	0.049	11.000	9.692	2.1755E-05	2.2917E-05	0.717

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0613E-01 (SLUGS/FT2-SEC)

PROBE NO.= 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH	RE/METER	REL	REL	REL	REL	REL	REL	REL	REL				
5.10	2.4259 C6	2.2182E 06	0.914	6.00	1156.8	1.2259E C6	0.304E	1.000	1.000				
PACH	RE/FT	REL	REL	REL	REL	REL	REL	REL	REL				
5.10	7.3942E C5	2.2182E 06	3.000	117.59	2082.3	527.14	1.0000	1.000	1.000				
CHAN	T/C	FW/FT	Q/QCS	F/H/S(1.CC0)	H/H/S(0.907)	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	158
21	21	0.253	0.0516	0.0589	0.0621	39	0.0621	39	0.0093	0.0106	0.0112	0.0130	
22	22	0.254	0.0558	0.0637	0.0671	40	0.0671	40	0.0108	0.0123	0.0130	0.0201	
23	23	0.254	0.0486	0.0555	0.0585	41	0.0585	41	0.0167	0.0191	0.0201	0.0244	
24	24	0.254	0.0364	0.0416	0.0438	42	0.0438	42	0.0203	0.0231	0.0244	0.0410	
25	25	0.253	0.0162	0.0186	0.0195	43	0.0195	43	0.0341	0.0389	0.0410	0.0466	
26	26	0.253	0.0034	0.0039	0.0041	44	0.0041	44	0.0387	0.0442	0.0466	0.0483	
27	27	0.252	0.0008	0.0009	0.0010	45	0.0010	45	0.0401	0.0458	0.0473	0.0540	
28	28	0.252	0.0005	0.0005	0.0006	46	0.0006	46	0.0393	0.0468	0.0535	0.0563	
29	29	0.252	0.0001	0.0001	0.0002	47	0.0002	47	0.0468	0.0513	0.0540	0.0540	
30	30	0.251	0.0000	0.0000	0.0000	48	0.0000	48	0.0445	0.0447	0.0471	0.0471	
31	31	0.251	0.0000	0.0000	0.0000	49	0.0000	49	0.0351	0.0447	0.0471	0.0471	
32	32	0.251	0.0020	0.0023	0.0024	50	0.0024	50	0.0245	0.0280	0.0294	0.0294	
33	33	0.251	0.0000	0.0000	0.0000	51	0.0000	51	0.0245	0.0280	0.0294	0.0294	
34	34	0.251	0.0001	0.0001	0.0001	52	0.0001	52	0.0016	0.0016	0.0019	0.0020	
35	35	0.251	0.0002	0.0002	0.0003	53	0.0003	53	0.0008	0.0008	0.0010	0.0010	
36	36	0.252	0.0005	0.0005	0.0005	54	0.0005	54	0.0013	0.0013	0.0015	0.0016	
37	37	0.252	0.0013	0.0015	0.0015	55	0.0015	55	0.0015	0.0015	0.0015	0.0016	
38	38	0.252	0.0055	0.0062	0.0066	55	0.0066	55	0.0055	0.0055	0.0055	0.0066	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 2.4259E C6 2.2182E 06 2.2182E 06 3.000 117.59 2082.3 527.14 1.000 HAM/HT 1.000 TEST NO. 158
 MACH 5.10 7.3542E C5 2.2182E 06 3.000 117.59 2082.3 527.14 1.000 HAM/HT 1.000 RUN NO. 72

CHAN	TAC	TM(DEG K)	REL	Q14/CM2)	Q18TU/FT2-SEC)	CS(W/CM2)	LS(BTU/FT2-SEC)	STIC(907)	STIO(874)	TIME(SEC)
21	21	219.4	556.9	0.580	0.511	11.237	9.902	2.2634E-04	2.3898E-04	0.025
22	22	215.4	558.8	0.926	0.552	11.224	9.990	2.4484E-04	2.5788E-04	0.092
23	23	209.6	557.3	0.546	0.481	11.235	9.899	2.1323E-04	2.2458E-04	-0.081
24	24	209.4	557.0	0.409	0.361	11.237	9.901	1.5981E-04	1.6831E-04	0.072
25	25	208.7	555.7	0.183	0.161	11.247	9.910	7.5267E-05	7.5067E-05	0.591
26	26	208.2	555.0	0.039	0.034	11.252	9.914	1.5049E-05	1.5049E-05	0.675
27	27	207.7	553.8	0.009	0.008	11.260	9.922	3.5688E-06	3.7560E-06	0.510
28	28	207.3	553.1	0.005	0.005	11.266	9.926	2.0531E-06	2.1620E-06	0.695
29	29	207.0	552.5	0.002	0.001	11.270	9.930	6.2660E-07	6.5901E-07	1.498
30	30	206.7	552.0	-0.000	-0.000	11.272	9.933	-8.6933E-08	-9.1118E-08	-6.230
31	31	206.5	551.7	0.000	0.000	11.276	9.935	1.6796E-07	1.7685E-07	6.434
32	32	206.2	551.8	-0.022	-0.020	11.275	9.935	-8.6808E-06	-9.1408E-06	4.453
33	33	205.7	552.1	0.000	0.000	11.272	9.933	1.6801E-07	1.7691E-07	9.433
34	34	205.8	552.2	0.001	0.001	11.272	9.932	4.4749E-07	4.7121E-07	3.064
35	35	205.3	552.3	0.002	0.002	11.271	9.931	9.7274E-07	1.0243E-06	1.196
36	36	207.2	553.0	0.005	0.005	11.266	9.927	1.9542E-06	2.1000E-06	0.734
37	37	207.5	553.4	0.014	0.013	11.263	9.924	5.6033E-06	5.9006E-06	0.680
38	38	207.8	554.0	0.062	0.054	11.259	9.921	2.3991E-05	2.5265E-05	0.572
39	39	207.8	554.1	0.104	0.092	11.258	9.920	4.0691E-05	4.2851E-05	0.413
40	40	208.3	554.9	0.122	0.107	11.252	9.915	4.7410E-05	4.9927E-05	0.274
41	41	208.7	555.7	0.188	0.166	11.246	9.910	7.3488E-05	7.7393E-05	0.091
42	42	209.2	556.6	0.228	0.201	11.240	9.904	8.8944E-05	9.3620E-05	0.039
43	43	209.7	557.5	0.383	0.337	11.233	9.898	1.4944E-04	1.5739E-04	0.036
44	44	209.9	557.8	0.435	0.383	11.231	9.896	1.6580E-04	1.7884E-04	0.063
45	45	209.7	557.5	0.451	0.397	11.233	9.898	1.7608E-04	1.8545E-04	0.038
46	46	209.5	557.8	0.441	0.389	11.231	9.896	1.7244E-04	1.8161E-04	0.023
47	47	210.1	558.1	0.526	0.463	11.228	9.894	2.0550E-04	2.1644E-04	0.039
48	48	209.8	557.7	0.504	0.444	11.232	9.897	1.9703E-04	2.0751E-04	0.062
49	49	209.8	557.6	0.439	0.387	11.232	9.897	1.7162E-04	1.8075E-04	0.023
50	50	209.5	557.0	0.275	0.242	11.237	9.901	1.0736E-04	1.1307E-04	-0.135
51	51	206.7	552.1	-0.018	-0.016	11.270	9.933	-7.1830E-06	-7.5637E-06	0.098
52	52	206.9	552.4	-0.010	-0.008	11.270	9.931	-3.7016E-06	-3.8979E-06	0.198
53	53	206.5	551.7	0.009	0.008	11.276	9.936	3.6942E-06	3.8899E-06	1.776
54	54	207.8	554.0	0.015	0.013	11.259	9.921	5.7316E-06	6.0357E-06	0.947
55	55	208.2	554.7	0.062	0.055	11.254	9.916	2.4184E-05	2.5468E-05	0.795

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0360E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

TEST NO. 158
 RUN NO. 72

*** PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF.				RS(METER)				HAM/HT						
REL LENGTH(METER)				HT(JOLLE/KG)				C-304B						
REL LENGTH(FT)				TT(DEC R)				RS(FT)						
REL LENGTH(C)				TT(DEC R)				HAM/HT						
REL LENGTH(C)				TT(DEC R)				HAM/HT						
2.2420E C6	2.1416E C6	C.914	8.00	1181.0	1.2541E C6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
7.1285E C5	.1416E C6	3.000	117.59	2125.9	539.29	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
CHAN	T/C	H/FT	Q/CS	H/FS(1.000)	H/HS(0.907)	H/HS(0.974)	CHAN	T/C	H/HT	C/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	
56	71	C.246	C.CC01	0.0001	0.0001	0.0001	66	81	0.248	0.0119	0.0119	0.0135	0.0143	
57	72	C.246	C.CC00	0.0001	0.0001	0.0001	67	82	0.249	0.0194	0.0194	0.0222	0.0233	
58	73	C.246	-C.CC01	-0.0001	-0.0001	-0.0001	68	83	0.250	0.0352	0.0352	0.0402	0.0423	
59	74	C.246	C.CC01	0.0001	0.0001	0.0001	69	84	0.251	0.0411	0.0411	0.0409	0.0494	
60	75	0.247	-C.CC01	-0.0002	-0.0002	-0.0002	70	85	0.251	0.0453	0.0453	0.0517	0.0545	
61	76	0.247	-C.CC02	-0.0002	-0.0002	-0.0002	71	86	0.251	0.0436	0.0436	0.0497	0.0524	
62	77	0.247	-C.CC02	-0.0002	-0.0002	-0.0002	72	87	0.252	0.0463	0.0463	0.0529	0.0557	
63	78	0.247	C.CC02	0.0002	0.0002	0.0002	73	88	0.252	0.0465	0.0465	0.0531	0.0559	
64	79	C.248	C.CC06	0.0006	0.0007	0.0008	74	89	0.253	0.0485	0.0485	0.0554	0.0583	
65	80	0.247	C.CC65	0.0065	0.0074	0.0078	75	90	0.252	0.0274	0.0274	0.0313	0.0330	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
CHRN	T/C	TM (DEG K)	TM (DEG R)	Q (W/CM2)	C (BTU/FT2-SEC)	CS (W/CM2)	CS (BTU/FT2-SEC)	ST (C.9C7)	ST (O.874)	TIME (SEC)
56	71	307.2	553.1	0.001	0.001	11.608	10.229	2.6874E-07	2.8284E-07	13.234
57	72	307.2	552.9	0.001	0.000	11.609	10.230	2.0657E-07	2.1742E-07	15.338
58	73	307.4	553.3	-0.002	-0.001	11.607	10.227	-5.7865E-07	-6.0907E-07	-1.140
59	74	307.6	553.7	0.001	0.001	11.604	10.225	3.3100E-07	3.4840E-07	5.745
60	75	307.5	554.3	-0.002	-0.002	11.600	10.221	-6.6187E-07	-6.9668E-07	-0.165
61	76	308.1	554.7	-0.006	-0.005	11.597	10.218	-2.2558E-06	-2.3745E-06	1.045
62	77	308.2	554.8	0.002	0.002	11.596	10.217	-8.6041E-07	-9.0569E-07	0.397
63	78	308.4	555.2	0.002	0.002	11.593	10.215	7.7601E-07	8.1685E-07	1.764
64	79	309.1	556.0	0.007	0.006	11.585	10.208	2.8075E-06	2.9554E-06	1.271
65	80	308.5	556.0	0.075	0.066	11.587	10.210	2.8762E-05	3.0276E-05	0.712
66	81	309.8	557.6	0.137	0.121	11.575	10.199	5.2830E-05	5.5615E-05	0.269
67	82	310.7	559.3	0.225	0.198	11.563	10.188	8.6458E-05	9.1022E-05	-0.083
68	83	312.2	561.9	0.406	0.358	11.544	10.172	1.5670E-04	1.6499E-04	-0.030
69	84	312.2	563.1	0.474	0.418	11.535	10.164	1.8295E-04	1.9265E-04	-0.023
70	85	313.8	564.9	0.522	0.460	11.522	10.152	2.0175E-04	2.1244E-04	-0.020
71	86	313.9	565.0	0.502	0.442	11.521	10.152	1.9396E-04	2.0424E-04	-0.042
72	87	314.2	565.8	0.533	0.470	11.515	10.147	2.0625E-04	2.1718E-04	-0.063
73	88	315.0	567.0	0.535	0.471	11.506	10.139	2.0708E-04	2.1808E-04	-0.012
74	89	315.7	568.3	0.558	0.491	11.497	10.130	2.1603E-04	2.2751E-04	-0.041
75	90	315.3	567.5	0.315	0.278	11.503	10.135	1.2203E-04	1.2851E-04	-0.221

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0039E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AEROSPACE RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
 MACH 5.1C
 REL LENGTH(C6) 4.0490E C6
 REL LENGTH(C6) 3.900
 REL LENGTH(C6) 2.12-17
 PT(ATM) 14.42
 PT(P51) 212-17
 TT(DEC K) 1148.9
 TT(DEC R) 2068.1
 RS(METER) 0.304E
 RS(FT) 1.000
 HAM/HT 1.000
 HAM/HT 1.000
 HAM/HT 1.000
 TEST NO. 158
 RUN NO. 73
 CO JMWTF SET 2-2-1

CHAN	T/C	Q/QCS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/LS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	1	C.0009	C.0011	C.0011	C.0011	11	11	0.260	0.0681	0.0779	0.0821	0.0821
2	2	C.0014	C.0016	C.0017	C.0017	12	12	0.259	0.0728	0.0832	0.0877	0.0877
3	3	C.0066	C.0075	C.0079	C.0079	13	13	0.260	0.0886	0.1013	0.1068	0.1068
4	4	C.0085	C.0097	C.0102	C.0102	14	14	0.260	0.0904	0.1034	0.1089	0.1089
5	5	C.0126	C.0144	C.0152	C.0152	15	15	0.259	0.0983	0.1124	0.1184	0.1184
6	6	C.0155	C.0178	C.0187	C.0187	16	16	0.254	-0.0003	-0.0003	-0.0004	-0.0004
7	7	C.0209	C.0239	C.0252	C.0252	17	17	0.254	-0.0003	-0.0003	-0.0003	-0.0003
8	8	C.0427	C.0488	C.0514	C.0514	18	18	0.256	-0.0002	-0.0002	-0.0002	-0.0002
9	9	C.0537	C.0614	C.0647	C.0647	19	19	0.256	0.0005	0.0005	0.0007	0.0007
10	10	C.0557	C.0637	C.0671	C.0671	20	20	0.256	0.0046	0.0046	0.0052	0.0052

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.628CE C6 4.045CE C6 4.049CE C6
 MACH 5.10 1.3457E C6 1.3457E C6
 REL LENGTH(METER) C.914
 REL LENGTH(FT) 3.000
 PT(PSI) 212.17
 TT(DEG K) 14.43
 TT(DEG R) 2068.1
 HT(LB/IN) 1.2167E C6
 HT(LB/IN) 523.20
 RS(METER) 0.3048
 RS(FT) 1.0000
 HAM/HT 1.000
 HAM/HT 1.000
 TEST NO. 158
 RUN NO. 73

CHAN	T/C	TM(DEG K)	TM(DEG R)	U(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(C.907)	ST(C.874)	TIME(SEC)
1	1	308.4	555.1	0.014	0.912	14.962	13.184	2.9766E-06	3.1352E-06	2.614
2	2	310.1	558.2	0.021	0.019	14.932	13.157	4.6508E-06	4.8591E-06	1.636
3	3	311.1	560.0	0.098	0.084	14.915	13.142	2.1356E-05	2.2498E-05	1.005
4	4	311.6	560.8	0.127	0.112	14.906	13.134	2.7653E-05	2.9133E-05	0.699
5	5	311.9	561.4	0.188	0.165	14.900	13.129	4.0522E-05	4.3112E-05	0.393
6	6	312.5	562.5	0.231	0.204	14.890	13.120	5.0512E-05	5.3218E-05	0.210
7	7	312.8	563.0	0.311	0.274	14.885	13.116	6.8016E-05	7.1661E-05	0.030
8	8	314.0	565.3	0.634	0.559	14.885	13.095	1.3880E-04	1.4425E-04	-0.051
9	9	314.6	566.4	0.797	0.703	14.852	13.087	1.7465E-04	1.8403E-04	0.030
10	10	315.0	567.0	0.827	0.729	14.846	13.081	1.8109E-04	1.9082E-04	0.040
11	11	315.3	567.5	1.011	0.991	14.841	13.077	2.2156E-04	2.3348E-04	0.096
12	12	315.3	567.5	1.083	0.954	14.841	13.108	2.3674E-04	2.4943E-04	0.287
13	13	314.5	566.2	1.316	1.160	14.854	13.088	2.8616E-04	3.0364E-04	0.558
14	14	314.4	566.0	1.343	1.183	14.855	13.090	2.9405E-04	3.0985E-04	0.287
15	15	314.1	565.5	1.460	1.287	14.861	13.094	3.1961E-04	3.3677E-04	0.298
16	16	308.3	554.9	-0.004	-0.004	14.964	13.185	-9.5928E-07	-1.0104E-06	-3.493
17	17	308.2	554.8	-0.005	-0.004	14.965	13.187	-1.0686E-06	-1.1255E-06	-3.732
18	18	308.6	557.2	-0.003	-0.003	14.942	13.166	-7.1887E-07	-7.5723E-07	-3.080
19	19	310.1	558.2	0.008	0.007	14.932	13.157	1.700E-06	1.8539E-06	2.281
20	20	310.6	559.1	0.068	0.060	14.923	13.149	1.4518E-05	1.5715E-05	1.133

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6927E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

PRELIMINARY DATA ***
TEST NO. 158
RUN NO. 73

RESEARCH CENTER MOFFETT FIELD CALIF. ***
RS(METER) 0.3048
RS(FT) 1.0000
HAM/HT 1.000
HAM/HT 1.000

MATHEMATICAL AERONAUTICS AND SPACE ADMINISTRATION AMES
TT(DEC K) 1161.5
TT(DEC K) 2090.6
PT(PSI) 212.17
PT(PSI) 212.17
H/HS(0.874) 0.0707
H/HS(0.907) 0.0671
H/HS(1.000) 0.0587
H/HS(1.000) 0.0667
H/HS(1.000) 0.0605
H/HS(1.000) 0.0455
H/HS(1.000) 0.0204
H/HS(1.000) 0.0043
H/HS(1.000) 0.0009
H/HS(1.000) 0.0005
H/HS(1.000) 0.0001
H/HS(1.000) -0.0000
H/HS(1.000) -0.0003
H/HS(1.000) -0.0003
H/HS(1.000) 0.0001
H/HS(1.000) 0.0002
H/HS(1.000) 0.0002
H/HS(1.000) 0.0005
H/HS(1.000) 0.0016
H/HS(1.000) 0.0070

MACH 5.10
MACH 5.10

CHAN	T/C	FW/FT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CFAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
21	21	0.256	0.0587	0.0587	0.0671	0.0707	39	39	0.254	0.0105	0.0120	0.0126	
22	22	0.253	0.0667	0.0667	0.0752	0.0803	40	40	0.255	0.0116	0.0133	0.0140	
23	23	0.258	0.0605	0.0605	0.0692	0.0729	41	41	0.255	0.0211	0.0241	0.0254	
24	24	0.257	0.0455	0.0455	0.0520	0.0548	42	42	0.256	0.0252	0.0288	0.0304	
25	25	0.256	0.0204	0.0204	0.0233	0.0245	43	43	0.257	0.0473	0.0541	0.0569	
26	26	0.254	0.0043	0.0043	0.0049	0.0052	44	44	0.257	0.0567	0.0648	0.0682	
27	27	0.254	0.0009	0.0009	0.0010	0.0010	45	45	0.257	0.0650	0.0743	0.0783	
28	28	0.254	0.0005	0.0005	0.0001	0.0006	46	46	0.257	0.0702	0.0803	0.0846	
29	29	0.252	0.0001	0.0001	0.0000	0.0000	47	47	0.257	0.0921	0.1053	0.1110	
30	30	0.252	-0.0000	-0.0000	-0.0000	-0.0000	48	48	0.256	0.1031	0.1178	0.1241	
31	31	0.252	-0.0003	-0.0003	-0.0003	-0.0003	49	49	0.256	0.1195	0.1365	0.1438	
32	32	0.252	-0.0003	-0.0003	-0.0003	-0.0003	50	50	0.256	0.1356	0.1580	0.1633	
33	33	0.252	0.0001	0.0001	0.0001	0.0001	51	56	0.251	-0.0008	-0.0009	-0.0010	
34	34	0.253	0.0002	0.0002	0.0002	0.0002	52	57	0.252	-0.0014	-0.0016	-0.0017	
35	35	0.253	0.0002	0.0002	0.0002	0.0002	53	58	0.252	0.0007	0.0007	0.0008	
36	36	0.253	0.0004	0.0004	0.0005	0.0005	54	59	0.254	0.0017	0.0020	0.0021	
37	37	0.254	0.0014	0.0014	0.0016	0.0017	55	60	0.255	0.0064	0.0073	0.0077	
38	38	0.255	0.0061	0.0061	0.0070	0.0073							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***																				
PACH		REL		TW(DEG K)		Q(W/CM2)		C(BTU/FT2-SEC)		CS(W/CM2)		CS(BTU/FT2-SEC)		RS(METER)		FAM/HT		TEST NO.		
5.10	4.24742 C6	3.5752E C6	565.6	314.2	0.887	0.761	15.098	13.303	1.9250E-04	2.0278E-04	1.000	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
5.10	1.3251E C6	3.5752E 06	570.5	316.5	1.003	0.884	15.049	13.261	2.1823E-04	2.3002E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			568.3	319.7	0.912	0.804	15.071	13.279	1.9840E-04	2.0902E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			567.3	315.2	0.686	0.303	15.081	13.288	1.4913E-04	1.5711E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			565.4	314.1	0.308	0.271	15.099	13.304	6.6756E-05	7.0322E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			563.9	312.2	0.065	0.057	15.114	13.318	1.4113E-05	1.4866E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			561.6	312.0	0.013	0.011	15.137	13.338	2.7872E-06	2.9357E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			559.7	311.0	0.007	0.006	15.155	13.354	1.5066E-06	1.5868E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			557.5	309.7	0.002	0.001	15.177	13.373	3.3474E-07	3.5252E-07	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			556.2	309.0	-0.000	-0.000	15.190	13.384	-7.1669E-08	-7.5472E-08	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			555.1	308.4	-0.004	-0.003	15.201	13.394	-8.2405E-07	-8.6774E-07	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			555.5	308.6	-0.004	-0.004	15.197	13.391	-9.0883E-07	-9.5703E-07	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			556.5	309.1	0.002	0.002	15.187	13.382	3.8275E-07	4.0306E-07	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			557.6	309.8	0.003	0.003	15.172	13.372	6.4785E-07	6.8226E-07	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			558.0	310.0	0.002	0.002	15.147	13.356	1.3005E-06	1.3697E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			559.4	310.8	0.006	0.006	15.158	13.347	4.6094E-06	4.8548E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			560.5	311.4	0.021	0.019	15.136	13.337	1.9970E-05	2.1034E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			561.7	312.1	0.092	0.081	15.142	13.342	3.4359E-05	3.6189E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			561.0	312.7	0.159	0.140	15.122	13.324	3.8169E-05	4.0205E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			563.1	312.8	0.176	0.155	15.125	13.327	6.9195E-05	7.2885E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			562.8	312.7	0.319	0.281	15.103	13.308	8.2653E-05	8.7067E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			565.0	312.5	0.381	0.336	15.088	13.294	1.5498E-04	1.6327E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			566.6	314.8	0.714	0.629	15.085	13.292	1.8567E-04	1.9560E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			566.9	314.5	0.855	0.753	15.091	13.297	2.1302E-04	2.2441E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			565.3	314.6	0.981	0.864	15.090	13.296	2.3612E-04	2.4443E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			566.4	314.7	1.060	0.934	15.082	13.290	3.0199E-04	3.1814E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			567.1	315.1	1.390	1.225	15.094	13.302	3.3788E-04	3.5933E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			565.7	314.3	1.556	1.371	15.096	13.300	3.9150E-04	4.1242E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			565.9	314.4	1.803	1.589	15.109	13.313	4.4448E-04	4.6821E-04	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			564.4	314.4	2.049	1.806	15.109	13.313	-2.6178E-06	-2.7566E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			555.0	313.0	-0.012	-0.011	15.182	13.395	-4.5864E-06	-4.8299E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			557.0	308.2	-0.021	-0.019	15.180	13.377	-2.1358E-06	-2.2491E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			556.4	305.4	0.010	0.009	15.180	13.383	5.6824E-06	5.9849E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			560.7	309.1	0.026	0.023	15.146	13.345	2.0591E-05	2.2109E-05	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73
			561.9	312.2	0.097	0.085	15.134	13.335	5.6824E-06	5.9849E-06	0.3042	1.000	1.000	1.000	0.3042	1.000	1.000	1.000	158	73

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6623E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***														
TEST NO. 158										RUN NO. 73				
MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	MACH/HT	RS(METER)	HAW/HT	TEST NO.	RS(METER)
5.10	4.2042E C6	3.8443E C6	0.914	14.43	1184.6	1.2582E C6	0.3048	1.000	158	1.000	0.3048	1.000	73	0.3048
PACH	RE/FT	REL	LENGTH(FT)	PT(PST)	TT(DEC. I)	MT(BTU/LBP)	RS(FT)	HAW/HT	RS(FT)	HAW/HT	RS(FT)	HAW/HT	RS(FT)	HAW/HT
5.10	1.2814E C6	3.8443E C6	3.000	212.17	2132.2	541.07	1.0000	1.000	73	1.0000	1.0000	1.000	73	1.0000
T/G	H/FT	U/CS	H/HS(1.000)	H/PS(J.907)	H/PS(O.874)	CHAN	T/C	HW/HT	U/QS	H/HS(1.000)	H/HS(O.907)	H/HS(O.874)		
56	71	C.0003	C.0003	0.0003	66	81	0.250	0.0148	0.0169	0.0148	0.0169	0.0178		
57	72	C.0003	C.0003	0.0004	67	82	0.252	0.0261	0.0298	0.0261	0.0298	0.0314		
58	73	C.0001	C.0001	0.0001	68	83	0.253	0.0493	0.0563	0.0493	0.0563	0.0593		
59	74	C.0002	C.0002	0.0002	69	84	0.254	0.0630	0.0720	0.0630	0.0720	0.0758		
60	75	C.0002	C.0002	0.0003	70	85	0.256	0.0739	0.0844	0.0739	0.0844	0.0890		
61	76	-C.0000	-C.0000	-0.0001	71	86	0.256	0.0762	0.0871	0.0762	0.0871	0.0918		
62	77	-C.0002	-C.0002	-0.0002	72	87	0.256	0.0876	0.1001	0.0876	0.1001	0.1055		
63	78	-C.0007	-C.0007	-0.0008	73	88	0.257	0.0900	0.1027	0.0900	0.1027	0.1084		
64	79	-C.0008	-C.0008	-0.0009	74	89	0.258	0.1152	0.1317	0.1152	0.1317	0.1388		
65	80	C.0083	C.0083	0.0099	75	90	0.257	0.1224	0.1400	0.1224	0.1400	0.1475		

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 RE/METER 4.2842E C6 3.8443E C6 3.8443E C6 3.8443E C6
 MACH 5.10 RE/FT 1.2314E C6 3.8443E C6 3.8443E C6 3.8443E C6
 RS(METER) 0.3048
 RS(FT) 1.000
 HAM/HT 1.000
 HAM/HT 1.000
 TEST NC. 158
 RUN NC. 73

CLAS	YFC	T(DEC K)	TW(DEC R)	W(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
56	71	309.2	557.6	0.004	0.004	15.615	13.759	9.1538E-07	9.6358E-07	6.509
57	72	309.2	556.8	0.005	0.005	15.625	13.768	1.0866E-06	1.1437E-06	5.131
58	73	309.5	557.2	0.001	0.001	15.620	13.763	1.942E-07	2.0442E-07	13.810
59	74	310.0	558.0	0.003	0.003	15.611	13.756	6.4066E-07	6.7440E-07	5.459
60	75	310.5	558.9	0.003	0.003	15.602	13.748	7.4400E-07	7.8321E-07	4.366
61	76	311.2	560.2	-0.001	-0.001	15.590	13.737	-1.6503E-07	-1.7374E-07	-3.457
62	77	311.4	560.5	-0.003	-0.003	15.587	13.734	-5.9236E-07	-6.2361E-07	-0.156
63	78	311.9	561.3	-0.010	-0.010	15.579	13.727	-2.1842E-06	-2.2996E-06	0.234
64	79	312.8	563.0	-0.012	-0.012	15.562	13.713	-2.5588E-06	-2.6941E-06	0.908
65	80	312.8	562.6	0.129	0.129	15.567	13.716	2.7468E-05	2.8920E-05	0.445
66	81	312.8	564.8	0.231	0.231	15.545	13.697	4.9301E-05	5.1510E-05	0.080
67	82	315.3	567.5	0.405	0.357	15.518	13.673	8.6778E-05	9.1380E-05	-0.038
68	83	317.8	571.5	0.763	0.673	15.479	13.639	1.6388E-04	1.7260E-04	0.007
69	84	319.7	573.7	0.974	0.858	15.457	13.620	2.0545E-04	2.2061E-04	0.014
70	85	320.2	576.3	1.140	1.005	15.432	13.597	2.4561E-04	2.5873E-04	0.033
71	86	320.4	576.8	1.176	1.036	15.427	13.593	2.5335E-04	2.6887E-04	0.021
72	87	321.1	577.9	1.350	1.190	15.416	13.583	2.9118E-04	3.0674E-04	0.036
73	88	322.3	580.2	1.386	1.221	15.393	13.564	2.9930E-04	3.1531E-04	0.052
74	89	323.5	582.3	1.771	1.561	15.373	13.545	3.8308E-04	4.0361E-04	0.024
75	90	323.4	580.4	1.884	1.660	15.392	13.562	4.0704E-04	4.2881E-04	0.007

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6072E-01 (SLUGS/FT2-SEC)

PROF AC = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.4213E C6 1.3088E C6 3.914 4.48 1121.9 1.1853E C6 0.3048 1.0000 1.0000 H/HS(1.000) H/HS(10.907) H/HS(10.874)
 MACH 5.10 4.3623E C5 1.4035E C6 3.000 65.37 2019.4 509.70 1.0000 1.0000 H/HS(1.000) H/HS(10.907) H/HS(10.874)
 TEST NO. 158
 RUN NO. 74
 CONSTANT SET 353

MACH	REL	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	MAW/HT	MAW/HT	H/HS(1.000)	H/HS(10.907)	H/HS(10.874)
5.10	1.4213E C6	1.3088E C6	3.914	4.48	1121.9	1.1853E C6	0.3048	1.0000	1.0000	1.0000	1.0000	1.0000
5.10	4.3623E C5	1.4035E C6	3.000	65.37	2019.4	509.70	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

CHAN	T/C	FW/HT	Q/GS	H/HS(1.000)	H/HS(10.907)	H/HS(10.874)	CHAN	T/C	FW/HT	Q/GS
1	201	0.264	-0.0000	-0.0000	-0.0000	-0.0000	6	206	0.265	-0.0000
2	202	0.265	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.265	0.0000
3	203	0.265	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.266	0.0000
4	204	0.265	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.266	0.0000
5	205	0.265	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.266	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH	RE/METER	REL LENGTH(FOOTER)	PT(ATM)	TT(SEC K)	PT(JDULL/KG)	RS(METER)	HAW/HT	TEST NC.	158	RU# NO.	74	TT(SEC K)	PT(JDULL/KG)	RS(METER)	HAW/HT
5.10	1.4313E C6	1.3082E C6	0.914	4.48	1.1853E C6	0.3048	1.500								
5.10	4.3625E C5	1.3082E C6	3.077	69.87	2019.4	509.70	1.000								
CHAI	T/C	TM(DFR K)	TM(CEU R)	-W/GCM2	G(BTU/FT2-SEC)	QS(W/GM2)	QS(BTU/FT2-SEC)	ST(G.907)	ST(G.874)	TIME(SEC)					
1	201	311.4	560.6	-0.000	-0.000	8.021	7.068	-0.0000E-39	-0.0000E-39	1.040					
2	202	312.2	561.9	-0.000	-0.000	8.014	7.061	-0.0000E-39	-0.0000E-39	0.787					
3	203	312.6	562.7	-0.000	-0.000	8.009	7.057	-0.0000E-39	-0.0000E-39	0.712					
4	204	312.9	563.2	-0.000	-0.000	8.006	7.055	-0.0000E-39	-0.0000E-39	0.637					
5	205	313.0	563.4	-0.000	-0.000	8.006	7.054	-0.0000E-39	-0.0000E-39	-0.078					
6	206	313.2	563.9	-0.000	-0.000	8.002	7.051	-0.0000E-39	-0.0000E-39	-0.157					
7	207	313.3	564.0	0.000	0.000	8.002	7.051	0.0000E-35	0.0000E-39	-0.050					
8	208	313.8	564.8	0.000	0.000	7.998	7.047	0.0000E-39	0.0000E-39	0.167					
9	209	313.8	564.9	0.000	0.000	7.997	7.047	0.0000E-39	0.0000E-39	0.197					
ic	210	313.7	564.6	0.000	0.000	7.999	7.048	0.0000E-39	0.0000E-39	0.181					

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1673E-01 (SLUGS/FT2-SEC)

PROBE NC. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 1.3923E C6 1.2733E C6 0.914 4.48 1140.3 1.2367E C6 0.3348 1.000 158 74

MACH 5.10 4.2442E C5 1.2733E C6 3.400 65.87 2052.6 518.89 1.0000 1.000 1.000

CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.261	0.0555	0.0955	0.1092	0.1151	36	226	0.261	-0.0000	-0.0000	-0.0000	
12	302	0.261	0.0890	0.0890	0.1014	0.1073	37	227	0.261	-0.0000	-0.0000	-0.0000	
13	303	0.261	0.0872	0.0872	0.0997	0.1051	38	228	0.260	-0.0000	-0.0000	-0.0000	
14	304	0.261	0.0794	0.0794	0.0909	0.0957	39	229	0.260	-0.0000	-0.0000	-0.0000	
15	305	0.261	0.0811	0.0811	0.0928	0.0977	40	230	0.260	0.0000	0.0000	0.0000	
16	306	0.261	0.0680	0.0680	0.0778	0.0820	41	231	0.260	0.0000	0.0000	0.0000	
17	307	0.261	0.0635	0.0635	0.0727	0.0755	42	232	0.260	0.0000	0.0000	0.0000	
18	308	0.261	0.0600	0.0600	0.0686	0.0723	43	233	0.260	0.0000	0.0000	0.0000	
19	309	0.261	0.0607	0.0607	0.0694	0.0732	44	234	0.260	0.0000	0.0000	0.0000	
20	310	0.261	0.0617	0.0617	0.0706	0.0744	45	235	0.261	-0.0000	-0.0000	-0.0000	
21	311	0.261	0.0794	0.0794	0.0908	0.0957	46	236	0.261	-0.0000	-0.0000	-0.0000	
22	312	0.261	0.0782	0.0782	0.0895	0.0942	47	237	0.261	-0.0000	-0.0000	-0.0000	
23	313	0.261	0.0723	0.0723	0.0829	0.0872	48	238	0.262	-0.0000	-0.0000	-0.0000	
24	314	0.261	0.0674	0.0674	0.0771	0.0813	49	239	0.262	-0.0000	-0.0000	-0.0000	
25	315	0.261	0.0701	0.0701	0.0802	0.0845	50	240	0.262	-0.0000	-0.0000	-0.0000	
26	316	0.261	0.0614	0.0614	0.0703	0.0740	51	241	0.262	-0.0000	-0.0000	-0.0000	
27	317	0.261	0.0609	0.0609	0.0695	0.0734	52	242	0.262	-0.0000	-0.0000	-0.0000	
28	318	0.261	0.0580	0.0580	0.0664	0.0699	53	243	0.262	-0.0000	-0.0000	-0.0000	
29	319	0.261	0.0580	0.0580	0.0664	0.0699	54	244	0.262	-0.0000	-0.0000	-0.0000	
30	320	0.261	0.0580	0.0580	0.0664	0.0699	55	245	0.262	-0.0000	-0.0000	-0.0000	
31	221	0.262	-0.0000	-0.0000	-0.0000	-0.0000	56	246	0.262	-0.0000	-0.0000	-0.0000	
32	222	0.262	-0.0000	-0.0000	-0.0000	-0.0000	57	247	0.262	-0.0000	-0.0000	-0.0000	
33	223	0.262	-0.0000	-0.0000	-0.0000	-0.0000	58	248	0.262	-0.0000	-0.0000	-0.0000	
34	224	0.262	-0.0000	-0.0000	-0.0000	-0.0000	59	249	0.262	-0.0000	-0.0000	-0.0000	
35	225	0.261	-0.0000	-0.0000	-0.0000	-0.0000	60	250	0.262	-0.0000	-0.0000	-0.0000	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***																
MACH		REL LENGTH(METER)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)		REL LENGTH(FT)		
5.10	1.2401E C6	1.2401E C6	0.514	4.44	1138.3	1.275E 06	0.3048	0.3048	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5.10	4.1235E C3	1.2401E 06	3.000	65.87	2086.9	527.85	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
CHAN	T/C	IN(DEC K)	TR(DEC R)	CM(CM2)	LBTL/FT2-SEC	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(G.907)	ST(O.874)	TIME(SEC)	TEST NO.	RUN NO.	TEST NO.	RUN NO.	TEST NO.	RUN NO.
61	276	315.7	568.2	-0.000	-0.000	8.364	7.370	-0.0000E-39	-0.0000E-39	1.103	158	74	158	74	158	74
62	277	315.8	568.5	-0.000	-0.000	8.362	7.368	-0.0000E-39	-0.0000E-39	1.529						
63	278	316.1	569.1	-0.000	-0.000	8.359	7.366	-0.0000E-39	-0.0000E-39	0.798						
64	279	316.8	570.2	-0.000	-0.000	8.353	7.360	-0.0000E-39	-0.0000E-39	0.702						
65	280	317.0	570.6	-0.000	-0.000	8.351	7.358	-0.0000E-39	-0.0000E-39	0.342						
66	281	317.7	571.9	-0.000	-0.000	8.344	7.352	-0.0000E-39	-0.0000E-39	-0.168						
67	282	318.2	572.8	-0.000	-0.000	8.339	7.348	-0.0000E-39	-0.0000E-39	-0.017						
68	283	318.0	574.2	-0.000	-0.000	8.331	7.341	-0.0000E-39	-0.0000E-39	0.047						
69	284	319.4	574.8	-0.000	-0.000	8.328	7.338	-0.0000E-39	-0.0000E-39	0.017						
70	285	320.0	576.0	-0.000	-0.000	8.322	7.332	-0.0000E-39	-0.0000E-39	0.028						
71	286	320.0	576.0	-0.000	-0.000	8.321	7.332	-0.0000E-39	-0.0000E-39	0.037						
72	287	320.4	576.7	-0.000	-0.000	8.318	7.329	-0.0000E-39	-0.0000E-39	0.029						
73	288	321.1	578.1	-0.000	-0.000	8.310	7.322	-0.0000E-39	-0.0000E-39	0.010						
74	289	321.7	579.0	-0.000	-0.000	8.305	7.318	-0.0000E-39	-0.0000E-39	0.007						
75	290	321.1	579.0	-0.000	-0.000	8.311	7.323	-0.0000E-39	-0.0000E-39	0.007						

FRF--STREAM DENSITY-VELOCITY PRODUCT = 1.1395E-01 (SLUGS/FT2-SEC)

PROBE NO.= 3

425

*** PRELIMINARY DATA ***

RESEARCH CENTER MOFFETT FIELD CALIF.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES

TEST NO. 158

425

HAU/HT 1.000

RS(METER) 0.3048

TT(DEG K) 1121.9

REL LENGTH(METER) 0.914

PT(ATM) 1.48

74

HAU/HT 1.000

RS(FT) 1.0000

TT(DEG R) 2019.4

REL LENGTH(FT) 3.000

PT(PSI) 65.87

CONSTANT SET 354

MACH	T/C	Q/RS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CPAN	T/C	HW/HT	Q/US	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
5.10	1	0.0008	0.0008	0.0010	0.0010	6	206	0.265	0.0435	0.0435	0.0498	0.0498
5.10	2	0.0051	0.0051	0.0058	0.0058	7	207	0.265	0.0509	0.0509	0.0582	0.0582
	3	0.0236	0.0236	0.0270	0.0285	8	208	0.266	0.0580	0.0580	0.0664	0.0664
	4	0.0290	0.0290	0.0332	0.0350	9	209	0.266	0.0569	0.0569	0.0652	0.0652
	5	0.0389	0.0389	0.0445	0.0470	10	210	0.266	0.0523	0.0523	0.0598	0.0598

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***														
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAH/HT	TEST NO.	158	RS(FT)	HAH/HT	RUN NO.	74	TIME(SEC)
5.10	1.4313E 06	1.3088E 06	0.914	4.48	1.1853E 06	0.3048	1.000			1.000				
5.10	4.3625E 05	1.3088E 06	3.000	65.87	509.70	1.0000	1.000			1.000				
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C-907)	ST(C-874)	TIME(SEC)				
1	201	311.4	560.6	0.007	0.006	8.021	7.068	4.8286E-06	5.0898E-06	1.040				
2	202	312.2	561.9	0.041	0.036	8.014	7.061	2.9315E-05	3.0902E-05	0.789				
3	203	312.6	562.7	0.189	0.166	8.009	7.057	1.3540E-04	1.4274E-04	0.512				
4	204	312.9	563.2	0.232	0.205	8.006	7.055	1.6657E-04	1.7560E-04	0.267				
5	205	313.0	563.4	0.311	0.274	8.006	7.054	2.2336E-04	2.3547E-04	-0.078				
6	206	313.3	563.9	0.348	0.307	8.002	7.051	2.4971E-04	2.6325E-04	-0.158				
7	207	313.3	564.0	0.407	0.359	8.002	7.051	2.9204E-04	3.0788E-04	-0.050				
8	208	313.8	564.8	0.464	0.409	7.998	7.047	3.3306E-04	3.5113E-04	0.157				
9	209	313.8	564.9	0.455	0.401	7.997	7.047	3.2688E-04	3.4462E-04	0.197				
10	210	313.7	564.6	0.418	0.368	7.999	7.048	3.0009E-04	3.1637E-04	0.181				

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1673E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
 MACH 5.10

REL LENGTH(METER) 1.2733E 06
 REL LENGTH(FT) 3.000

PT(ATM) 4.58
 PT(PST) 65.87

TT(DEG K) 1140.3
 TT(DEG F) 2052.6

RS(METER) 0.3048
 RS(FT) 1.0000

HAW/HT 1.000
 HAW/HT 1.000

TEST NO. 156
 RUN NO. 74

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	PT(ATM)	PT(PST)	TT(DEG K)	TT(DEG F)	RS(METER)	RS(FT)	HAW/HT	HAW/HT	TEST NO.	RUN NO.
11	301	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
12	302	0.251	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
13	303	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
14	304	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
15	305	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
16	306	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
17	307	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
18	308	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
19	309	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
20	310	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
21	311	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
22	312	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
23	313	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
24	314	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
25	315	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
26	316	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
27	317	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
28	318	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
29	319	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
30	319	0.261	-0.0000	-0.0000	-0.0000	-0.0000	4.58	65.87	1140.3	2052.6	0.3048	1.0000	1.000	1.000	156	74
31	221	0.262	0.0580	0.0580	0.0663	0.0699	0.0710	0.0710	56	246	0.0511	0.0511	0.0511	0.0511	0.0616	0.0616
32	222	0.263	0.0569	0.0569	0.0674	0.0674	0.0517	0.0517	57	247	0.0565	0.0565	0.0565	0.0565	0.0639	0.0639
33	223	0.262	0.0452	0.0452	0.0517	0.0517	0.0545	0.0545	58	248	0.0530	0.0530	0.0530	0.0530	0.0632	0.0632
34	224	0.262	0.0337	0.0337	0.0386	0.0406	0.0406	0.0406	59	249	0.0524	0.0524	0.0524	0.0524	0.0645	0.0645
35	225	0.261	0.0142	0.0142	0.0163	0.0172	0.0172	0.0172	60	250	0.0535	0.0535	0.0535	0.0535	0.0645	0.0645

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 1.3923E 06 1.2733E 06 0.914 4.48 1149.3 1.2067E 06 0.3048 1.000 158
MACH 5.10 4.2442E 05 1.2733E 06 3.000 65.87 2052.6 518.89 1.0000 1.000 74

Table with columns: CHAN, T/C, TWIDEG K, TWIDEG R, REL LENGTH(METER), REL LENGTH(FT), Q(W/CM2), Q(BTU/FT2-SEC), Q(SI/CM2), Q(SI/FT2-SEC), ST(I,0.907), ST(I,0.874), TIME(SEC). Rows 11-60.

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1551E-01 4SLUGS/FT2-SEC

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***																	
TEST NO. 158										RUN NO. 74							
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TI(DEC K)	HT(JOULE/KG)	RS(METER)	HAW/HT	RS(METER)	HAW/HT	RS(METER)	HAW/HT	RS(METER)	HAW/HT	RS(METER)	HAW/HT		
5.10	1.3561E 06	1.2401E 06	0.914	4.48	1.2275E 06	0.3048	1.000	0.3048	1.000	0.3048	1.000	0.3048	1.000	0.3048	1.000		
MACH	RE/FT	REL LENGTH(FT)	PT(Psi)	TI(DEC R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RS(FT)	HAW/HT	RS(FT)	HAW/HT	RS(FT)	HAW/HT	RS(FT)	HAW/HT		
5.10	4.1355E 05	1.2401E 06	3.000	65.87	527.86	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		
CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
61	276	0.0001	0.0001	0.0001	0.0001	69	284	0.0547	0.0547	0.0547	0.0547	75	290	0.0545	0.0545	0.0545	0.0545
62	277	0.0001	0.0001	0.0001	0.0001	70	285	0.0540	0.0540	0.0540	0.0540	76	291	0.0545	0.0545	0.0545	0.0545
63	278	0.0001	0.0001	0.0001	0.0001	71	286	0.0513	0.0513	0.0513	0.0513	77	292	0.0545	0.0545	0.0545	0.0545
64	279	0.0001	0.0001	0.0001	0.0001	72	287	0.0534	0.0534	0.0534	0.0534	78	293	0.0545	0.0545	0.0545	0.0545
65	280	0.0001	0.0001	0.0001	0.0001	73	288	0.0503	0.0503	0.0503	0.0503	79	294	0.0545	0.0545	0.0545	0.0545
66	281	0.0001	0.0001	0.0001	0.0001	74	289	0.0545	0.0545	0.0545	0.0545	80	295	0.0545	0.0545	0.0545	0.0545
67	282	0.0001	0.0001	0.0001	0.0001	75	290	0.0545	0.0545	0.0545	0.0545	81	296	0.0545	0.0545	0.0545	0.0545
68	283	0.0001	0.0001	0.0001	0.0001			0.0545	0.0545	0.0545	0.0545			0.0545	0.0545	0.0545	0.0545

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH	RE/METER	REL	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(H/CM2)	Q(TU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	RS(METER)	HAM/HT	TEST NO.	RS(FT)	HAM/HT	RUN NO.
5.10	1.3561E 06	1.2401E 06	315.7	568.2	0.001	0.000	4.48	1158.3	1.2275E 06	0.3048	1.000	158	0.3048	1.000	74
MACH	RE/FT	REL	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(H/CM2)	FT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAM/HT		RS(FT)	HAM/HT	
5.10	4.1335E 05	1.2401E 06	315.7	568.2	0.001	0.000	65.87	2084.9	527.86	1.0000	1.000		1.0000	1.000	
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(H/CM2)	Q(TU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	RS(METER)	HAM/HT	TEST NO.	RS(FT)	HAM/HT	TIME(SEC)	
61	276	315.7	568.2	0.001	0.000	0.001	8.364	7.370	5.0305E-07	5.3001E-07	1.103	0.3048	1.000	1.529	
62	277	315.7	568.5	0.000	0.000	0.000	8.362	7.368	3.0488E-07	3.2123E-07	0.798	0.3048	1.000	0.798	
63	278	316.4	569.1	0.008	0.007	0.007	8.359	7.366	5.6806E-06	5.9852E-06	0.702	0.3048	1.000	0.702	
64	279	316.8	570.2	0.032	0.029	0.029	8.353	7.360	2.2762E-05	2.3984E-05	0.342	0.3048	1.000	0.342	
65	280	317.0	570.6	0.211	0.186	0.186	8.351	7.358	1.4852E-04	1.5650E-04	-0.167	0.3048	1.000	-0.167	
66	281	317.7	571.9	0.333	0.294	0.294	8.344	7.352	2.3450E-04	2.4710E-04	-0.169	0.3048	1.000	-0.169	
67	282	318.2	572.8	0.443	0.390	0.390	8.339	7.348	3.1178E-04	3.2854E-04	-0.017	0.3048	1.000	-0.017	
68	283	319.0	574.2	0.451	0.397	0.397	8.331	7.341	3.1772E-04	3.3483E-04	0.045	0.3048	1.000	0.045	
69	284	319.4	574.8	0.456	0.402	0.402	8.328	7.338	3.2140E-04	3.3671E-04	0.017	0.3048	1.000	0.017	
70	275	320.0	576.0	0.450	0.396	0.396	8.322	7.332	3.1738E-04	3.3449E-04	0.028	0.3048	1.000	0.028	
71	286	320.0	576.0	0.427	0.376	0.376	8.321	7.332	3.0131E-04	3.1755E-04	0.029	0.3048	1.000	0.029	
72	287	320.4	576.7	0.444	0.391	0.391	8.318	7.329	3.1353E-04	3.3043E-04	0.010	0.3048	1.000	0.010	
73	286	321.1	578.1	0.418	0.368	0.368	8.310	7.322	2.9539E-04	3.1134E-04	0.007	0.3048	1.000	0.007	
74	289	321.7	579.0	0.452	0.399	0.399	8.305	7.318	3.1992E-04	3.3721E-04	0.007	0.3048	1.000	0.007	
75	290	321.1	578.0	0.449	0.396	0.396	8.311	7.323	3.1739E-04	3.3453E-04	0.007	0.3048	1.000	0.007	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1395E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

431

*** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 75
CONSTANT SET 353

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. **
 MACH 5.10 REL LENGTH(METER) PT(ATM) TT(DEC K) FT(JOULE/KG) H/W/HT H/W/HT
 2.5648E C6 2.3452E C6 3.42 1137.4 1.2023E C6 0.3048 1.000
 MACH 5.10 REL LENGTH(FT) PT(PSI) TT(DEC R) FT(RTL/LBM) H/W/HT H/W/HT
 7.8174E C5 2.3452E C6 120.82 2047.4 517.45 1.000

CHAN	T/C	H/W/HT	Q/W/S	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	Q/W/S	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.260	-0.0000	-0.0000	-0.0000	-0.0000	6	206	0.262	-0.0000	-0.0000	-0.0000	-0.0000
2	202	0.261	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.262	0.0000	0.0000	0.0000	0.0000
3	203	0.261	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.263	0.0000	0.0000	0.0000	0.0000
4	204	0.262	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.263	0.0000	0.0000	0.0000	0.0000
5	205	0.262	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.263	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	TW(DEG K)	TW(DEG R)	W(W/GM2)	LR(TU/FT2-SEC)	CS(W/GM2)	CS(BTU/FT2-SEC)	SI(0.874)	SI(0.507)	ST(0.874)	TIME(SEC)
1	201	211.4	500.4	-0.000	-0.000	11.086	9.763	-0.0000E-39	-0.0000E-39	-0.0000E-39	2.004
2	202	212.5	562.5	-0.000	-0.000	11.071	9.755	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.902
3	203	213.2	563.8	-0.000	-0.000	11.061	9.746	-0.0000E-39	-0.0000E-39	-0.0000E-39	0.486
4	204	213.6	564.5	-0.000	-0.000	11.056	9.742	-0.0000E-35	-0.0000E-39	-0.0000E-39	0.140
5	205	213.8	564.8	-0.000	-0.000	11.054	9.740	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.329
6	206	214.3	565.7	-0.000	-0.000	11.047	9.734	-0.0000E-39	-0.0000E-39	-0.0000E-39	-0.480
7	207	214.3	565.8	0.000	0.000	11.046	9.733	0.0000E-39	0.0000E-39	0.0000E-39	-0.338
8	208	214.5	566.9	0.000	0.000	11.038	9.726	0.0000E-35	0.0000E-39	0.0000E-39	0.027
9	209	215.1	567.2	0.000	0.000	11.036	9.724	0.0000E-39	0.0000E-39	0.0000E-39	0.064
10	210	214.5	566.8	0.000	0.000	11.039	9.727	0.0000E-39	0.0000E-39	0.0000E-39	0.055

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1189E-01 (SLUGS/FT2-SEC)

PROBE NO.= 1

MACH 5.10
MACH 5.10

RE/METER 2.5648E C6
RE/FT 7.8174E C5

REL 2.3432E C5
REL 2.3432E C6

PT(ATM) 3.22
PT(PST) 120.82

TI(DEG K) 1137.4
TI(DEG R) 2047.4

FI(JCULE/KG) 1.2033E 06
HT(BTU/LBM) 517.45

RS(METER) 0.3049
RS(FT) 1.0000

HA(W/HT) 1.000
HA(W/HT) 1.000

TEST NO. 152
RUN NO. 75

PRELIMINARY DATA ***
 TEST NO. 1.8
 RUN NO. 75

RESEARCH CENTER MOFFETT FIELD CALIF. ***
 RS (METER) 0.3048
 HAW/HT 1.000
 RS (FT) 1.0000
 HAW/HT 1.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER
 TT (DEC K) 1150.4
 TT (DEC R) 2070.7
 HT (JUL/LE/KG) 1.2193E C6
 HT (BTU/LBW) 523.92

REL LENGTH(METER) 0.914
 REL LENGTH(FT) 3.000
 PT (ATM) 8.22
 PT (PSI) 120.82

REL LENGTH(C6) 2.3008E C6
 REL LENGTH(C6) 2.3008E C6

CHAN	T/C	H/W/HT	G/Q/S	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	G/Q/S	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.260	0.0790	0.0790	0.0952	0.0952	36	226	0.259	-0.0000	-0.0000	-0.0000	-0.0000
12	302	0.260	0.0731	0.0635	0.0880	0.0880	37	227	0.259	-0.0000	-0.0000	-0.0000	-0.0000
13	303	0.259	0.0735	0.0641	0.0886	0.0886	38	228	0.258	-0.0000	-0.0000	-0.0000	-0.0000
14	304	0.260	0.0671	0.0617	0.0809	0.0809	39	229	0.258	-0.0000	-0.0000	-0.0000	-0.0000
15	305	0.260	0.0689	0.0655	0.0831	0.0831	40	230	0.257	-0.0000	-0.0000	-0.0000	-0.0000
16	306	0.259	0.0532	0.0608	0.0641	0.0641	41	231	0.257	-0.0000	-0.0000	-0.0000	-0.0000
17	307	0.259	0.0512	0.0565	0.0617	0.0617	42	232	0.258	-0.0000	-0.0000	-0.0000	-0.0000
18	308	0.259	0.0476	0.0544	0.0573	0.0573	43	233	0.258	-0.0000	-0.0000	-0.0000	-0.0000
19	309	0.259	0.0464	0.0531	0.0559	0.0559	44	234	0.258	-0.0000	-0.0000	-0.0000	-0.0000
20	310	0.259	0.0472	0.0535	0.0568	0.0568	45	235	0.259	-0.0000	-0.0000	-0.0000	-0.0000
21	311	0.259	0.0653	0.0746	0.0787	0.0787	46	235	0.259	-0.0000	-0.0000	-0.0000	-0.0000
22	312	0.259	0.0659	0.0753	0.0794	0.0794	47	237	0.260	-0.0000	-0.0000	-0.0000	-0.0000
23	313	0.259	0.0609	0.0697	0.0734	0.0734	48	238	0.260	-0.0000	-0.0000	-0.0000	-0.0000
24	314	0.255	0.0563	0.0644	0.0679	0.0679	49	239	0.260	-0.0000	-0.0000	-0.0000	-0.0000
25	315	0.255	0.0559	0.0573	0.0709	0.0709	50	240	0.260	-0.0000	-0.0000	-0.0000	-0.0000
26	316	0.259	0.0503	0.0575	0.0606	0.0606	51	241	0.261	-0.0000	-0.0000	-0.0000	-0.0000
27	317	0.260	0.0491	0.0562	0.0592	0.0592	52	242	0.261	-0.0000	-0.0000	-0.0000	-0.0000
28	318	0.260	0.0488	0.0488	0.0588	0.0588	53	243	0.260	-0.0000	-0.0000	-0.0000	-0.0000
29	319	0.255	0.0504	0.0504	0.0601	0.0601	54	244	0.261	-0.0000	-0.0000	-0.0000	-0.0000
30	221	0.260	0.0000	0.0000	0.0000	0.0000	55	245	0.261	-0.0000	-0.0000	-0.0000	-0.0000
31	222	0.262	0.0000	0.0000	0.0000	0.0000	56	246	0.261	-0.0000	-0.0000	-0.0000	-0.0000
32	223	0.261	0.0000	0.0000	0.0000	0.0000	57	247	0.261	-0.0000	-0.0000	-0.0000	-0.0000
33	224	0.260	0.0000	0.0000	0.0000	0.0000	58	248	0.260	-0.0000	-0.0000	-0.0000	-0.0000
34	225	0.260	0.0000	0.0000	0.0000	0.0000	59	249	0.260	-0.0000	-0.0000	-0.0000	-0.0000
35							60	250	0.260	-0.0000	-0.0000	-0.0000	-0.0000

NATIONAL BUREAU OF STANDARDS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA ***

MACH 5.10 7.1852E C5 2.3303E C5 120.92 2070.7 523.02 1.0000 1.0000 1.0000 1.0000

W/FT 0.3348 0.3348 1.0000 1.0000 1.0000 1.0000

TEST NO. 158 RUN NO. 75

CP	T/C	T/DEG K	T/DEG R	Q(W/GM2)	Q(TU/FT2-SEC)	Q(S/CM2)	Q(S(TU/FT2-SEC)	Q(S(CM2)	ST(0.907)	ST(0.874)	TIME(SEC)
11	301	315.2	547.3	0.886	0.781	11.221	9.887	3.4083E-04	3.5911E-04	0.308	
12	302	315.4	567.7	0.320	0.722	11.218	9.882	3.1515E-04	3.3210E-04	0.314	
13	303	316.3	565.7	0.925	0.723	11.233	9.898	3.1725E-04	3.3429E-04	0.299	
14	304	315.3	587.6	0.774	0.564	11.219	9.895	2.8959E-04	3.0519E-04	0.334	
15	305	314.5	588.5	0.547	0.682	11.224	9.890	2.9737E-04	3.1336E-04	0.157	
16	306	314.3	565.7	0.575	0.520	11.233	9.897	2.2437E-04	2.4168E-04	0.157	
17	307	313.5	565.2	0.535	0.871	11.238	9.894	2.2085E-04	2.3271E-04	0.128	
18	308	313.4	565.1	0.521	0.459	11.232	9.902	2.0520E-04	2.1620E-04	0.097	
19	309	314.4	565.8	0.521	0.467	11.232	9.899	2.0227E-04	2.1101E-04	0.084	
20	310	314.2	565.5	0.530	0.646	11.234	9.899	2.0347E-04	2.1439E-04	0.095	
21	311	314.7	566.4	0.733	0.651	11.227	9.893	2.8159E-04	2.9671E-04	0.223	
22	312	315.2	567.4	0.739	0.651	11.220	9.887	2.8411E-04	2.9938E-04	0.229	
23	313	315.2	565.5	0.684	0.933	11.232	9.896	2.6289E-04	2.7700E-04	0.214	
24	314	314.7	566.5	0.632	0.557	11.227	9.892	2.4702E-04	2.5607E-04	0.204	
25	315	314.7	566.4	0.661	0.582	11.229	9.893	2.5344E-04	2.6757E-04	0.214	
26	316	314.7	566.5	0.565	0.497	11.227	9.893	2.1691E-04	2.2856E-04	0.118	
27	317	314.7	566.5	0.552	0.486	11.224	9.890	2.1203E-04	2.2342E-04	0.111	
28	318	314.8	566.7	0.547	0.482	11.226	9.891	2.1038E-04	2.2168E-04	0.123	
29	319	314.7	566.4	0.565	0.488	11.228	9.893	2.1725E-04	2.2892E-04	0.142	
30	320	314.7	566.4	0.565	0.488	11.228	9.893	2.1725E-04	2.2892E-04	0.142	
31	321	315.6	568.1	-0.000	-0.000	11.215	9.882	-0.0000E-39	-0.0000E-39	0.093	
32	322	317.3	571.1	-0.000	-0.000	11.193	9.863	-0.0000E-39	-0.0000E-39	0.161	
33	323	316.3	569.3	-0.000	-0.000	11.206	9.874	-0.0000E-39	-0.0000E-39	0.008	
34	324	316.0	568.8	-0.000	-0.000	11.210	9.878	-0.0000E-39	-0.0000E-39	0.180	
35	325	315.1	567.2	-0.000	-0.000	11.221	9.888	-0.0000E-39	-0.0000E-39	0.496	
36	326	314.8	566.6	-0.000	-0.000	11.226	9.892	-0.0000E-39	-0.0000E-39	0.571	
37	327	313.8	564.8	-0.000	-0.000	11.240	9.904	-0.0000E-39	-0.0000E-39	0.607	
38	328	313.3	563.9	-0.000	-0.000	11.246	9.904	-0.0000E-39	-0.0000E-39	1.670	
39	329	313.7	562.9	-0.000	-0.000	11.254	9.916	-0.0000E-39	-0.0000E-39	-2.75	
40	330	314.1	561.8	-0.000	-0.000	11.262	9.923	-0.0000E-39	-0.0000E-39	-1.561	
41	331	312.2	563.0	-0.000	-0.000	11.261	9.922	-0.0000E-39	-0.0000E-39	-0.395	
42	332	312.8	563.6	-0.000	-0.000	11.253	9.915	-0.0000E-39	-0.0000E-39	-0.526	
43	333	313.1	564.1	-0.000	-0.000	11.249	9.911	-0.0000E-39	-0.0000E-39	0.452	
44	334	313.4	564.7	-0.000	-0.000	11.244	9.908	-0.0000E-39	-0.0000E-39	0.452	
45	335	313.7	564.7	-0.000	-0.000	11.240	9.904	-0.0000E-39	-0.0000E-39	-0.930	
46	336	314.2	565.4	-0.000	-0.000	11.234	9.904	-0.0000E-39	-0.0000E-39	0.635	
47	337	315.1	567.1	-0.000	-0.000	11.234	9.898	-0.0000E-39	-0.0000E-39	0.670	
48	338	315.6	568.0	-0.000	-0.000	11.222	9.888	-0.0000E-39	-0.0000E-39	0.502	
49	339	315.3	567.5	-0.000	-0.000	11.215	9.886	-0.0000E-39	-0.0000E-39	0.136	
50	340	315.9	567.9	-0.000	-0.000	11.207	9.875	-0.0000E-39	-0.0000E-39	-0.046	
51	341	315.5	569.4	-0.000	-0.000	11.217	9.875	-0.0000E-39	-0.0000E-39	-0.158	
52	342	316.3	568.8	-0.000	-0.000	11.206	9.874	-0.0000E-39	-0.0000E-39	-0.062	
53	343	316.0	569.9	-0.000	-0.000	11.210	9.870	-0.0000E-39	-0.0000E-39	0.174	
54	344	316.6	569.9	-0.000	-0.000	11.202	9.870	-0.0000E-39	-0.0000E-39	0.180	
55	345	315.2	565.2	-0.000	-0.000	11.207	9.875	-0.0000E-39	-0.0000E-39	0.153	
56	346	316.2	569.1	-0.000	-0.000	11.207	9.875	-0.0000E-39	-0.0000E-39	0.164	
57	347	316.1	569.0	-0.000	-0.000	11.209	9.876	-0.0000E-39	-0.0000E-39	0.159	
58	348	315.7	568.2	-0.000	-0.000	11.214	9.881	-0.0000E-39	-0.0000E-39	0.155	
59	349	315.2	567.4	-0.000	-0.000	11.213	9.880	-0.0000E-39	-0.0000E-39	0.146	
60	350	315.5	567.8	-0.000	-0.000	11.217	9.884	-0.0000E-39	-0.0000E-39	0.139	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1008E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

TEST NG. 158
 RUN NO. 75

MACH 5.10
 2.4366E C6 2.2258E C6 2.2258E C6
 15/FT 15/FT
 7.4328E C6 3.2258E C6

REL LENGTH(METER) 171.3
 REL LENGTH(FT) 534.66

PT(PSSI) 123.82

TI(DEC R) 2169.2

TI(DEC R) 2169.2

RS(METER) 0.304F
 RS(FT) 1.000

HAW/HT 1.000
 HAW/HT 1.000

*** PRELIMINARY DATA ***

CHAN	T/C	H/W/HT	W/QS	F/H/ST(1.000)	H/H/S(0.907)	F/H/S(0.874)	CHAN	T/C	H/W/HT	Q/QS	H/H/S(1.000)	H/H/S(0.907)	H/H/S(0.874)
61	276	0.255	0.0000	0.0000	0.0000	0.0000	69	284	0.259	-0.0000	-0.0000	-0.0000	-0.0000
62	277	0.255	0.0000	0.0000	0.0000	0.0000	70	285	0.260	-0.0000	-0.0000	-0.0000	-0.0000
63	278	0.256	-0.0000	-0.0000	-0.0000	-0.0000	71	286	0.260	-0.0000	-0.0000	-0.0000	-0.0000
64	279	0.256	-0.0000	-0.0000	-0.0000	-0.0000	72	287	0.261	-0.0000	-0.0000	-0.0000	-0.0000
65	280	0.257	-0.0000	-0.0000	-0.0000	-0.0000	73	288	0.261	-0.0000	-0.0000	-0.0000	-0.0000
66	281	0.257	-0.0000	-0.0000	-0.0000	-0.0000	74	289	0.262	-0.0000	-0.0000	-0.0000	-0.0000
67	282	0.258	-0.0000	-0.0000	-0.0000	-0.0000	75	290	0.262	-0.0000	-0.0000	-0.0000	-0.0000
68	283	0.255	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***									
MACH	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10	2.436E C6	2.229E C5	3.914	8.22	1171.8	1.2433E C6	6.3048	1.300	158
MACH	REL	REL	REL	REL	REL	REL	REL	REL	REL
5.10	7.4328E C5	2.2258E C6	3.300	120.82	2109.2	534.66	1.0000	1.000	75
CHAN	T/C	T/(DEG K)	T/(DEG R)	Q(BTU/FT2-SEC)	Q(SLW/CM2)	Q(SIBTU/FT2-SEC)	ST(G.9071)	ST(0.874)	TIME(SEC)
61	276	315.8	568.4	0.000	11.520	10.151	0.000E-39	0.000E-39	-1.073
62	277	316.1	568.5	0.000	11.516	10.147	0.000E-39	0.000E-39	-0.236
63	278	316.5	569.8	-0.000	11.510	10.142	-0.000E-39	-0.000E-39	0.738
64	279	317.5	571.5	-0.000	11.497	10.131	-0.000E-39	-0.000E-39	0.532
65	280	317.7	571.9	-0.000	11.494	10.128	-0.000E-39	-0.000E-39	0.281
66	281	318.7	573.7	-0.000	11.481	10.116	-0.000E-39	-0.000E-39	-0.397
67	282	319.2	575.2	-0.000	11.470	10.107	-0.000E-39	-0.000E-39	-0.337
68	283	320.6	577.0	-0.000	11.456	10.095	-0.000E-39	-0.000E-39	-0.001
69	284	321.1	578.0	-0.000	11.449	10.088	-0.000E-39	-0.000E-39	-0.005
70	285	322.0	579.5	-0.000	11.438	10.078	-0.000E-39	-0.000E-39	-0.024
71	286	322.1	579.8	-0.000	11.436	10.077	-0.000E-39	-0.000E-39	-0.017
72	287	322.7	580.8	-0.000	11.428	10.070	-0.000E-39	-0.000E-39	-0.038
73	288	323.7	582.7	-0.000	11.414	10.058	-0.000E-39	-0.000E-39	-0.078
74	289	324.6	584.3	-0.000	11.402	10.047	-0.000E-39	-0.000E-39	-0.121
75	290	323.7	582.7	-0.000	11.414	10.057	-0.000E-39	-0.000E-39	-0.151

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0713E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

2-6

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. TEST NO. 158
 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAW/MT
 2.3452E 06 2.3452E 06 8.22 1137.4 1.2033E 06 0.3049 1.000
 REL LENGTH(FT) PT(PST) TT(DEG R) HT(BTU/LBM) RS(FT) HAW/MT
 7.8174E 05 2.3452E 06 3.000 2047.4 517.45 1.0000 1.000

CONSTANT SET 354

MACH	T/C	Q/Q5	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)	H/HS(1.000)
5.10	201	0.0011	0.0011	0.0013	0.0013	0.0344	0.0344	0.0394	0.0417	0.0417
5.10	202	0.0052	0.0052	0.0062	0.0062	0.0412	0.0412	0.0472	0.0497	0.0497
5.10	203	0.0217	0.0217	0.0248	0.0248	0.0506	0.0506	0.0579	0.0610	0.0610
5.10	204	0.0251	0.0251	0.0302	0.0302	0.0496	0.0496	0.0568	0.0599	0.0599
5.10	205	0.0317	0.0317	0.0383	0.0383	0.0450	0.0450	0.0515	0.0543	0.0543

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.5648E C6 2.3452E 06 REL LENGTH(METER) 0.914 PT(ATM) 8.22 TT(DEG K) 1137.4 HT(JOULE/KG) 1.2033E 06 RS(METER) 0.3048 HAM/HT 1.500 TEST NO. 158
 MACH 5.10 7.8174E 05 2.3452E 06 REL LENGTH(FT) 3.000 PT(PST) 120.82 TT(DEG R) 2047.4 HT(BTU/LBM) 517.45 RS(FT) 1.0000 HAM/HT 1.000 RUN NO. 75

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(SLUGS/FT2-SEC)	CS(W/CM2)	QS(BTU/FT2-SEC)	ST(10.907)	ST(10.874)	TIME(SEC)
1	201	311.4	560.4	0.012	0.011	11.086	9.768	4.7857E-06	5.0428E-06	2.004
2	202	312.5	562.5	0.057	0.050	11.071	9.755	2.2095E-05	2.3284E-05	0.902
3	203	313.2	563.8	0.240	0.211	11.061	9.746	9.2845E-05	9.7847E-05	0.463
4	204	313.6	564.5	0.277	0.244	11.056	9.742	1.0727E-04	1.1309E-04	0.143
5	205	313.8	564.8	0.351	0.309	11.054	9.740	1.3589E-04	1.4322E-04	-0.329
6	206	314.3	565.7	0.380	0.335	11.047	9.734	1.4746E-04	1.5535E-04	-0.481
7	207	314.3	565.8	0.455	0.401	11.046	9.733	1.7638E-04	1.8590E-04	-0.339
8	208	314.9	566.9	0.558	0.492	11.038	9.726	2.1654E-04	2.2823E-04	0.027
9	209	315.1	567.2	0.548	0.483	11.036	9.724	2.1247E-04	2.2395E-04	0.064
10	210	314.9	566.8	0.497	0.438	11.039	9.727	1.9277E-04	2.0317E-04	0.065

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1189E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	H/HS(1.000)	Q/QS	HW/HT	CHAM	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(10.907)	H/HS(3.874)	RS(METER)	HM/HT	TEST NO.	RS(FT)	HM/HT	RUN NO.
5.10	2.5161E 06	2.3008E 06	0.914	-0.0000	0.260	36	226	0.259	0.0033	0.0033	0.0037	0.0039	0.3048	0.0009	1.000	0.0004	0.0004	1.000
5.10	7.6692E 05	2.3008E 06	3.000	-0.0000	0.260	37	227	0.259	0.0008	0.0008	0.0009	0.0010	1.0000	0.0004	1.000	-0.0001	0.0004	1.000
				-0.0000	0.259	38	228	0.258	0.0004	0.0004	0.0004	0.0004	0.3048	0.0004	1.000	-0.0001	0.0004	1.000
				-0.0000	0.260	39	229	0.258	-0.0001	-0.0001	0.0001	0.0001	0.3048	0.0001	1.000	-0.0001	0.0001	1.000
				-0.0000	0.260	40	230	0.257	-0.0002	-0.0002	0.0002	0.0002	0.3048	0.0002	1.000	-0.0002	0.0002	1.000
				-0.0000	0.259	41	231	0.257	-0.0006	-0.0006	0.0006	0.0006	0.3048	0.0006	1.000	-0.0006	0.0006	1.000
				-0.0000	0.259	42	232	0.258	-0.0005	-0.0005	0.0005	0.0005	0.3048	0.0005	1.000	-0.0005	0.0005	1.000
				-0.0000	0.259	43	233	0.258	-0.0007	-0.0007	0.0007	0.0007	0.3048	0.0007	1.000	-0.0007	0.0007	1.000
				-0.0000	0.259	44	234	0.258	-0.0006	-0.0006	0.0006	0.0006	0.3048	0.0006	1.000	-0.0006	0.0006	1.000
				-0.0000	0.259	45	235	0.259	-0.0002	-0.0002	0.0002	0.0002	0.3048	0.0002	1.000	-0.0002	0.0002	1.000
				-0.0000	0.259	46	236	0.259	0.0006	0.0006	0.0006	0.0006	0.3048	0.0006	1.000	0.0006	0.0006	1.000
				-0.0000	0.260	47	237	0.260	0.0051	0.0051	0.0051	0.0051	0.3048	0.0051	1.000	0.0051	0.0051	1.000
				-0.0000	0.260	48	238	0.260	0.0224	0.0224	0.0224	0.0224	0.3048	0.0224	1.000	0.0224	0.0224	1.000
				-0.0000	0.259	49	239	0.260	0.0352	0.0352	0.0352	0.0352	0.3048	0.0352	1.000	0.0352	0.0352	1.000
				-0.0000	0.259	50	240	0.261	0.0385	0.0385	0.0385	0.0385	0.3048	0.0385	1.000	0.0385	0.0385	1.000
				-0.0000	0.259	51	241	0.260	0.0501	0.0501	0.0501	0.0501	0.3048	0.0501	1.000	0.0501	0.0501	1.000
				-0.0000	0.260	52	242	0.261	0.0534	0.0534	0.0534	0.0534	0.3048	0.0534	1.000	0.0534	0.0534	1.000
				-0.0000	0.260	53	243	0.260	0.0552	0.0552	0.0552	0.0552	0.3048	0.0552	1.000	0.0552	0.0552	1.000
				-0.0000	0.260	54	244	0.261	0.0530	0.0530	0.0530	0.0530	0.3048	0.0530	1.000	0.0530	0.0530	1.000
				*****	0.261	55	245	0.261	0.0502	0.0502	0.0502	0.0502	0.3048	0.0502	1.000	0.0502	0.0502	1.000
				0.0615	0.261	56	246	0.261	0.0478	0.0478	0.0478	0.0478	0.3048	0.0478	1.000	0.0478	0.0478	1.000
				0.0637	0.261	57	247	0.261	0.0340	0.0340	0.0340	0.0340	0.3048	0.0340	1.000	0.0340	0.0340	1.000
				0.0487	0.260	58	248	0.260	0.0509	0.0509	0.0509	0.0509	0.3048	0.0509	1.000	0.0509	0.0509	1.000
				0.0362	0.260	59	249	0.260	0.0512	0.0512	0.0512	0.0512	0.3048	0.0512	1.000	0.0512	0.0512	1.000
				0.0158	0.260	60	250	0.260	0.0543	0.0543	0.0543	0.0543	0.3048	0.0543	1.000	0.0543	0.0543	1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	CHAN	T/C	IN (DEG K)	Y (INCH)	REL LENGTH (METER)	PT (ATH)	TT (DEG K)	HT (JULLE/CG)	RS (METER)	HA/W/HT	TEST NO.
5.10	11	301	315.2	567.3	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	12	302	315.4	567.7	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	13	303	314.3	565.7	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	14	304	315.3	567.6	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	15	305	314.9	566.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	16	306	314.3	565.7	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	17	307	314.6	566.2	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	18	308	313.9	565.1	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	19	309	314.4	565.8	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	20	310	314.2	565.5	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	21	311	314.7	566.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	22	312	315.2	567.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	23	313	314.4	565.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	24	314	314.7	566.5	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	25	315	314.7	566.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	26	316	314.7	566.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	27	317	315.0	566.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	28	318	314.8	566.7	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	29	319	314.7	566.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	30	320	315.0	566.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	31	321	315.6	568.1	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	32	322	317.3	571.1	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	33	323	316.3	569.3	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	34	324	316.0	568.8	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	35	325	315.1	567.2	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	36	326	314.8	566.6	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	37	327	313.8	564.8	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	38	328	313.3	563.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	39	329	312.7	562.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	40	330	312.1	561.8	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	41	331	312.2	561.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	42	332	312.8	563.0	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	43	333	313.1	563.6	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	44	334	313.4	564.1	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	45	335	313.7	564.7	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	46	336	314.2	565.6	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	47	337	315.1	567.1	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	48	338	315.6	568.0	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	49	339	315.3	567.5	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	50	340	316.2	569.2	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	51	341	315.5	567.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	52	342	316.3	569.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	53	343	316.0	568.8	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	54	344	316.6	569.9	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	55	345	315.2	569.2	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	56	346	316.2	569.1	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	57	347	316.1	569.0	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	58	348	315.7	568.2	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75
5.10	59	349	315.6	568.4	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	159
5.10	60	350	315.5	567.8	0.914	8.22	1150.4	1.2183E 06	0.3043	1.000	75

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1008E-01 (SLUGS/FT2-SEC)

PROBE NG. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 138
 MACH 5.10 2.4386E 06 REL LENGTH(METER) PT(ATM) 8.22 TT(DEG K) MT(JOULE/KS) RS(METER) HAM/HT 1.500
 MACH 5.10 7.4328E 05 2.2298E 06 REL LENGTH(FT) 3.000 TT(DEG R) MT(BTU/LBM) RS(FT) HAM/HT 1.000
 2.2298E 06 REL LENGTH(FT) 3.000

CHAN	T/C	HM/HT	Q/QS	M/MS(1.000)	H/MS(0.907)	M/MS(0.874)	CHA:	T/C	HM/HT	Q/QS	M/MS(1.000)	H/MS(0.907)	M/MS(0.874)
61	276	0.255	-0.0001	-0.0001	-0.0001	-0.0001	69	284	0.259	0.0482	0.0482	0.0551	0.0551
62	277	0.255	-0.0001	-0.0001	-0.0001	-0.0001	70	285	0.260	0.0487	0.0487	0.0557	0.0557
63	278	0.256	0.0007	0.0007	0.0008	0.0008	71	286	0.260	0.0455	0.0455	0.0520	0.0520
64	279	0.256	0.0033	0.0033	0.0038	0.0040	72	287	0.261	0.0462	0.0462	0.0528	0.0528
65	280	0.257	0.0204	0.0204	0.0233	0.0245	73	288	0.261	0.0429	0.0429	0.0491	0.0491
66	281	0.257	0.0305	0.0305	0.0367	0.0367	74	289	0.262	0.0471	0.0471	0.0539	0.0539
67	282	0.258	0.0432	0.0432	0.0494	0.0520	75	290	0.262	0.0466	0.0466	0.0533	0.0533
68	283	0.259	0.0497	0.0497	0.0568	0.0599							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA

MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	2.438E 06	2.229E 06	0.914	1171.8	1.2433E 06	0.3048	1.000	159
MACH	RE/FT	REL LENGTH(FT)	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	7.4328E 05	2.2298E 06	3.009	2109.2	534.66	1.0000	1.000	75

CHAN	T/C	TH(DEG K)	TH(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST10(907)	ST10(874)	TIME(SEC)
61	276	315.8	568.4	-0.001	-0.001	11.520	10.151	-3.1325E-07	-3.2295E-07	-1.073
62	277	316.1	568.9	-0.001	-0.001	11.516	10.147	-4.5346E-07	-4.7765E-07	-0.237
63	278	316.5	569.8	0.008	0.007	11.510	10.142	2.9607E-06	3.1040E-06	0.709
64	279	317.5	571.5	0.038	0.033	11.497	10.131	1.4362E-05	1.5129E-05	0.632
65	280	317.7	571.9	0.234	0.200	11.494	10.128	8.4040E-05	9.3799E-05	0.281
66	281	318.7	573.7	0.350	0.308	11.481	10.116	1.3322E-04	1.4035E-04	-0.398
67	282	319.5	575.2	0.495	0.437	11.470	10.107	1.8881E-04	1.9892E-04	-0.333
68	283	320.6	577.0	0.569	0.502	11.456	10.095	2.1730E-04	2.2896E-04	-0.001
69	284	321.1	578.0	0.551	0.485	11.449	10.086	2.1057E-04	2.2187E-04	-0.005
70	285	322.0	579.5	0.557	0.490	11.438	10.078	2.1274E-04	2.2418E-04	-0.025
71	286	322.1	579.8	0.520	0.458	11.436	10.077	1.9882E-04	2.0951E-04	-0.019
72	287	322.7	580.8	1.528	0.465	11.428	10.070	2.0196E-04	2.1203E-04	-0.059
73	288	323.1	582.7	0.490	0.432	11.414	10.058	1.8777E-04	1.9788E-04	-0.079
74	289	324.6	584.3	0.537	0.473	11.402	10.047	2.0597E-04	2.1708E-04	-0.121
75	290	323.7	582.7	0.531	0.468	11.414	10.057	2.0356E-04	2.1453E-04	-0.152

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0713E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

113

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MUFFETT FIELD CALIF. ***
 TEST NO. 153
 RUN NO. 75
 CONSTRAINT SET 315-3

MACH	REL LENGTH(METER)	PT(ATM)	TT(DEC K)	FT(LJULLE/KG)	RS(PETER)	PM/HT	TEST NO.
5.10	4.4614E C6	4.0578E C6	14.22	1144.6	1.2117E C6	1.000	153
5.10	1.3659F C6	4.0978E 06	213.37	2060.3	521.05	1.0000	75

CHAN	T/C	PM/HT	G/CS	F/HS(1.000)	F/HS(10.907)	F/HS(10.874)	CFAN	T/C	PM/HT	Q/CS	M/HS(1.000)	M/HS(10.907)	M/HS(10.874)
1	201	0.256	-0.0000	-0.0000	-0.0000	-0.0000	6	206	0.260	-0.0000	-0.0000	-0.0000	-0.0000
2	202	0.258	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.260	0.0000	0.0000	0.0000	0.0000
3	203	0.259	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.261	0.0000	0.0000	0.0000	0.0000
4	204	0.255	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.261	0.0000	0.0000	0.0000	0.0000
5	205	0.259	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.260	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER PURFETT FIELD CALIF. PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(PETER)	PT(ATM)	TT(DEC K)	HT(JOULE/RG)	RS(M/HR)	MAW/HT	TEST NO.
5.10	4.481AE C6	4.0978E C6	0.914	14.51	1144.6	1.2117E C6	0.3749	1.000	158
MACH	RE/FT	REL	LENGTH(FT)	PT(PST)	TT(DEC H)	HT(RTU/LBM)	RS(FT)	MAW/HT	RUN NO.
5.10	1.3655E C6	4.0978E C6	3.000	213.37	2.060.3	521.05	1.000	1.000	75

CHAN	T/C	TW(DEC K)	TW(DEC R)	Q(W/CM2)	QB(TU/FT2-SEC)	WS(M/CM2)	WS(RTU/FT2-SEC)	ST(U.907)	ST(U.874)	TIME(SEC)
1	201	310.6	555.5	-0.000	-0.000	14.719	13.145	-0.0000E-39	-0.0000E-39	2.062
2	202	310.7	555.2	-0.000	-0.000	14.882	13.113	-0.0000E-39	-0.0000E-39	1.003
3	203	311.5	561.4	-0.000	-0.000	14.891	13.094	-0.0000E-39	-0.0000E-39	0.596
4	204	312.5	562.5	-0.000	-0.000	14.850	13.084	-0.0000E-39	-0.0000E-39	0.277
5	205	312.8	563.0	-0.000	-0.000	14.845	13.080	-0.0000E-39	-0.0000E-39	-0.249
6	206	313.5	564.4	-0.000	-0.000	14.831	13.068	-0.0000E-39	-0.0000E-39	-0.463
7	207	313.6	564.4	0.000	0.000	14.831	13.068	0.0000E-39	0.0000E-39	-0.343
8	208	314.4	566.0	0.000	0.000	14.815	13.054	0.0000E-39	0.0000E-39	0.080
9	209	314.6	566.3	0.000	0.000	14.813	13.052	0.0000E-39	0.0000E-39	0.126
10	210	314.2	565.6	0.000	0.000	14.820	13.058	0.0000E-39	0.0000E-39	0.116

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7242E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER JEFFRETT FIELD CALIF. *** PRELIMINARY DATA ***													
PLAN	T/C	REL	W/FT	F/HS(1.000)	F/HS(1.000)	F/HS(1.000)	CHAN	T/C	H/W/HT	W/L/S	M/HS(1.000)	M/HS(0.907)	M/HS(0.874)
5.10	301	4.3875E 06	4.0123E 06	0.0761	0.0666	0.0666	36	220	0.256	0.0000	0.0000	0.0000	0.0000
5.10	302	REL LENGTH(METER)	REL LENGTH(FT)	REL LENGTH(METER)	REL LENGTH(FT)	REL LENGTH(METER)	37	227	0.254	0.0000	0.0000	0.0000	0.0000
	303	0.256	0.8314	0.0681	0.2713	0.0681	38	228	0.253	0.0000	0.0000	0.0000	0.0000
	304	0.255	3.0000	0.0754	0.2774	0.0754	39	229	0.253	0.0000	0.0000	0.0000	0.0000
	305	0.256		0.0700	0.2328	0.0700	40	230	0.252	0.0000	0.0000	0.0000	0.0000
	306	0.255		0.0717	0.0756	0.0717	41	231	0.251	0.0000	0.0000	0.0000	0.0000
	307	0.256		0.0573	0.0604	0.0573	42	232	0.252	0.0000	0.0000	0.0000	0.0000
	308	0.255		0.0557	0.0586	0.0557	43	233	0.253	0.0000	0.0000	0.0000	0.0000
	309	0.255		0.0532	0.0561	0.0532	44	234	0.253	0.0000	0.0000	0.0000	0.0000
	310	0.255		0.0541	0.0570	0.0541	45	235	0.254	0.0000	0.0000	0.0000	0.0000
	311	0.256		0.0543	0.0572	0.0543	46	236	0.254	0.0000	0.0000	0.0000	0.0000
	312	0.256		0.0591	0.0711	0.0591	47	237	0.256	0.0000	0.0000	0.0000	0.0000
	313	0.255		0.0675	0.0721	0.0675	48	238	0.256	0.0000	0.0000	0.0000	0.0000
	314	0.255		0.0684	0.0721	0.0684	49	239	0.256	0.0000	0.0000	0.0000	0.0000
	315	0.256		0.0635	0.0669	0.0635	50	240	0.257	0.0000	0.0000	0.0000	0.0000
	316	0.255		0.0586	0.0617	0.0586	51	241	0.256	0.0000	0.0000	0.0000	0.0000
	317	0.255		0.0531	0.0575	0.0531	52	242	0.257	0.0000	0.0000	0.0000	0.0000
	318	0.256		0.0551	0.0580	0.0551	53	243	0.257	0.0000	0.0000	0.0000	0.0000
	319	0.255		0.0561	0.0591	0.0561	54	244	0.257	0.0000	0.0000	0.0000	0.0000
	320	0.255		0.0535	0.0563	0.0535	55	245	0.257	0.0000	0.0000	0.0000	0.0000
	321	0.256		0.0000	0.0000	0.0000	56	246	0.256	0.0000	0.0000	0.0000	0.0000
	322	0.259		-0.0000	-0.0000	-0.0000	57	247	0.256	0.0000	0.0000	0.0000	0.0000
	323	0.258		-0.0000	-0.0000	-0.0000	58	248	0.256	0.0000	0.0000	0.0000	0.0000
	324	0.258		-0.0000	-0.0000	-0.0000	59	249	0.256	0.0000	0.0000	0.0000	0.0000
	325	0.256		-0.0000	-0.0000	-0.0000	60	250	0.255	0.0000	0.0000	0.0000	0.0000

TEST NO. 158
RUN NO. 76

PSI(METER) 0.3048
HAW/HT 1.00
RS(FT) 1.0000
L. GO

FT(DEC KI) 1.5910
FT(DEC LB) 1.2283E 06
FT(DEC KI) 2085.1
FT(DEC LB) 525.22

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION Ames Research Center Moffett Field, Calif. PRELIMINARY DATA ***
 PACH 5.10 4.3875E C6 4.0123E C6 3.914 14.51 11394.0 1.2203E 0.0 0.0000 1.0 C3 1.0 C3 1.0 C3
 PACH 5.10 1.3374E C6 4.0123E C6 3.900 213.37 20864.1 528.42 1.6000 1.0 C3 1.0 C3 1.0 C3

CRAN	I/C	T (DEG R)	Y (DEG R)	Z (CM/CM2)	W (FT/FT2-SEC)	U (CM/CM2)	V (FT/FT2-SEC)	S (IC-874)	ST (IC-874)	TIME (SEC)
11	301	212.5	503.2	0.887	13.320	1.1116	2.1714E-04	2.2874E-04	0.205	
12	302	213.7	504.0	0.793	13.313	1.9444E-04	2.0484E-04	0.157 C	0.157 C	
13	303	211.5	506.7	0.481	13.341	2.1524E-04	2.2480E-04	0.272	0.272	
14	304	213.2	504.0	0.926	13.313	1.9497E-04	2.1055E-04	0.309	0.309	
15	305	212.7	502.9	0.749	13.322	2.0476E-04	2.1569E-04	0.232	0.232	
16	306	212.0	501.7	0.754	13.333	1.8363E-04	1.7237E-04	0.105	0.105	
17	307	211.6	502.8	0.736	13.324	1.5889E-04	1.6737E-04	0.067	0.067	
18	308	211.6	506.9	0.621	13.333	1.5135E-04	1.6005E-04	0.064	0.064	
19	309	212.0	561.6	0.717	13.333	1.5497E-04	1.6280E-04	0.064	0.064	
20	310	211.7	561.1	0.634	13.338	1.5497E-04	1.6323E-04	0.042	0.042	
21	311	212.7	562.9	0.893	13.322	1.9230E-04	2.0575E-04	0.141	0.141	
22	312	212.6	564.4	0.904	13.309	1.5534E-04	2.0575E-04	0.139	0.139	
23	313	212.5	562.2	0.841	13.328	1.5138E-04	1.9105E-04	0.120	0.120	
24	314	212.8	563.0	0.835	13.321	1.6733E-04	1.7626E-04	0.103	0.103	
25	315	212.7	562.5	0.772	13.322	1.8017E-04	1.8978E-04	0.137	0.137	
26	316	212.3	562.1	0.638	13.329	1.5617E-04	1.6450E-04	0.019	0.019	
27	317	212.7	562.9	0.724	13.322	1.5730E-04	1.6567E-04	0.004	0.004	
28	318	212.4	562.2	0.743	13.328	1.6021E-04	1.6876E-04	0.014	0.014	
29	319	211.9	561.3	0.809	13.335	1.7438E-04	1.8368E-04	0.047	0.047	
30	-C-C	-0.0	-0.0	*****	*****	*****	*****	*****	*****	
31	221	313.7	564.7	-0.000	13.307	15.102	-0.0000E-39	-0.0000E-39	0.024	
32	222	316.1	570.1	-0.000	13.280	15.948	-0.0000E-39	-0.0000E-39	0.123	
33	223	315.5	567.8	-0.000	13.279	15.070	-0.0000E-39	-0.0000E-39	0.015	
34	224	315.0	566.9	-0.000	13.287	15.079	-0.0000E-39	-0.0000E-39	0.192	
35	225	313.6	565.4	-0.000	13.309	15.104	-0.0000E-39	-0.0000E-39	0.447	
36	226	312.8	563.1	-0.000	13.320	15.117	-0.0000E-39	-0.0000E-39	3.229	
37	227	311.0	555.8	-0.000	13.349	15.150	-0.0000E-39	-0.0000E-39	2.517	
38	228	310.0	556.0	-0.000	13.364	15.167	-0.0000E-39	-0.0000E-39	0.967	
39	229	308.5	556.1	-0.000	13.381	15.187	-0.0000E-39	-0.0000E-39	2.720	
40	230	307.8	554.0	-0.000	13.399	15.207	-0.0000E-39	-0.0000E-39	0.419	
41	231	307.2	553.4	0.000	13.404	15.213	0.0000E-39	0.0000E-39	0.462	
42	232	308.5	555.4	0.000	13.379	15.193	0.0000E-39	0.0000E-39	0.172	
43	233	309.1	556.3	0.000	13.379	15.184	0.0000E-39	0.0000E-39	0.840	
44	234	305.7	557.4	0.000	13.369	15.173	0.0000E-39	0.0000E-39	0.394	
45	235	310.2	558.5	-0.000	13.360	15.153	-0.0000E-39	-0.0000E-39	0.587	
46	236	311.1	560.1	-0.000	13.347	15.147	-0.0000E-39	-0.0000E-39	0.689	
47	237	312.6	562.7	-0.000	13.312	15.121	-0.0000E-39	-0.0000E-39	0.217	
48	238	313.4	564.1	-0.000	13.310	15.107	-0.0000E-39	-0.0000E-39	0.025	
49	239	312.5	563.1	-0.000	13.275	15.117	-0.0000E-39	-0.0000E-39	0.103	
50	240	314.4	566.0	-0.000	13.314	15.110	-0.0000E-39	-0.0000E-39	0.012	
51	241	313.2	563.8	-0.000	13.294	15.099	-0.0000E-39	-0.0000E-39	0.207	
52	242	314.5	566.1	-0.000	13.304	15.099	-0.0000E-39	-0.0000E-39	0.213	
53	243	313.6	564.5	-0.000	13.291	15.084	-0.0000E-39	-0.0000E-39	0.226	
54	244	314.7	566.4	-0.000	13.304	15.084	-0.0000E-39	-0.0000E-39	0.258	
55	245	313.5	565.0	-0.000	13.307	15.099	-0.0000E-39	-0.0000E-39	0.397	
56	246	313.7	564.6	-0.000	13.311	15.107	-0.0000E-39	-0.0000E-39	0.333	
57	247	313.4	564.1	-0.000	13.321	15.118	-0.0000E-39	-0.0000E-39	0.372	
58	248	312.6	563.0	-0.000	13.321	15.118	-0.0000E-39	-0.0000E-39	0.372	
59	249	312.5	563.2	-0.000	13.319	15.114	-0.0000E-39	-0.0000E-39	0.395	
60	250	312.4	562.3	-0.000	13.327	15.125	-0.0000E-39	-0.0000E-39	0.395	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6831E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	REF	LENGTH(METER)	PT(AT)	TT(DEL K)	PT(JULLE/KG)	RS(METER)	PA(M)	TEST NO.
5.10	4.234E C6	3.872E C6	0.914	14.51	1183.5	1.257E C6	1.00	158
MACH	REF	LENGTH(FT)	PT(PSI)	TT(DEL R)	PT(LBU/LBM)	RS(FT)	HA(M/HT)	HUN NO.
5.10	1.2907E C6	3.8720E 06	3.000	213.57	2130.3	540.54	1.000	76
CFAN	T/C	FW/FT	W/GS	F/PSI(1.000)	F/PS(10.907)	H/PS(10.874)	H/MS(10.000)	H/MS(10.874)
61	276	0.248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
62	277	0.249	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
63	278	0.250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
64	279	0.251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
65	280	0.251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
66	281	0.252	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
67	282	0.253	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
68	283	0.254	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
				CFAN	T/C	FW/HT	G/LB	
				69	284	0.255	0.0000	
				70	285	0.256	0.0000	
				71	286	0.257	0.0000	
				72	287	0.257	0.0000	
				73	288	0.259	0.0000	
				74	289	0.260	0.0000	
				75	290	0.255	0.0000	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***											
PACH	RE/METER	REL LENGTH(METER)	Y(DEG K)	Y(DEG R)	Q (BTU/FT2-SEC)	Q (W/CM2)	Q (BTU/FT2-SEC)	Q (W/CM2)	U (BTU/FT2-SEC)	U (W/CM2)	TIME(SEC)
5.10	1.2347E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	1.070
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	3.295
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.909
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.526
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.367
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.342
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.269
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.084
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.067
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.023
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.037
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.045
5.10	1.2344E 06	3.6720E 06	3.000	3.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6301E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 4.4814E 06 REL LENGTH(METER) 0.914 PT(ATM) 14.51 TT(DEG K) 1144.6 HT(JOULE/KG) 1.2117E 06 RS(METER) 0.3048 HAM/MT 1.000 TEST NO. 158

MACH 5.10 RE/FT 1.3659E 06 REL LENGTH(FT) 3.000 PT(PSI) 213.37 TT(DEG R) 2060.3 HT(BTU/LBM) 521.05 RS(FT) 1.0000 HAM/HT 1.000 RUN NO. 76

CONSTANT SET 354

CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.256	0.0018	0.0021	0.0022	6	206	0.260	0.0537	0.0614	0.0647
2	202	0.258	0.0079	0.0091	0.0095	7	207	0.260	0.0632	0.0723	0.0752
3	203	0.259	0.0342	0.0391	0.0411	8	208	0.261	0.0794	0.0908	0.0957
4	204	0.259	0.0410	0.0466	0.0494	9	209	0.261	0.0788	0.0901	0.0949
5	205	0.259	0.0487	0.0557	0.0587	10	210	0.260	0.0741	0.0848	0.0892

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***											
CHAN	T/C	RE/METER	REL	TM(DEG K)	Q(W/CM2)	Q(BTU/FT2-SEC)	Q(SI(W/GM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	201	4.814E 06	4.0978E 06	308.6	0.027	0.024	14.919	13.145	5.8505E-06	6.1628E-06	2.062
2	202	4.814E 06	4.0978E 06	310.7	0.118	0.104	14.882	13.113	2.5621E-05	2.6992E-05	1.003
3	203	4.814E 06	4.0978E 06	311.9	0.508	0.447	14.861	13.094	1.1047E-04	1.1639E-04	0.596
4	204	4.814E 06	4.0978E 06	312.5	0.608	0.536	14.850	13.084	1.3250E-04	1.3961E-04	0.275
5	205	4.814E 06	4.0978E 06	312.8	0.723	0.637	14.845	13.080	1.5754E-04	1.6600E-04	-0.300
6	206	4.814E 06	4.0978E 06	313.5	0.796	0.701	14.831	13.068	1.7356E-04	1.8289E-04	-0.465
7	207	4.814E 06	4.0978E 06	313.6	0.938	0.826	14.831	13.068	2.0455E-04	2.1554E-04	-0.345
8	208	4.814E 06	4.0978E 06	314.4	1.176	1.036	14.815	13.054	2.5673E-04	2.7054E-04	0.074
9	209	4.814E 06	4.0978E 06	314.6	1.167	1.028	14.813	13.052	2.5478E-04	2.6849E-04	0.125
10	210	4.814E 06	4.0978E 06	314.2	1.098	0.968	14.820	13.058	2.3978E-04	2.5268E-04	0.115

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7242E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

TEST NG. 1E8
RUN NO. 75

PAM/HT 1.700
HAM/HT 1.700

RS(METER) 0.3048
RS(FT) 1.0000

HT(JOULE/KG) 1.2117E 06
HT(BTU/LBM) 521.05

TT(DEG K) 1144.6
TT(DEG R) 2060.3

PT(ATM) 14.51
PT(PSI) 213.37

REL LENGTH(METER) 0.914
REL LENGTH(FT) 3.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 4.3879E 06 REL LENGTH(METER) PT(ATM) 14.51 TT(DEG K) HT (Joule/KG) RSI(METER) HAM/FT TEST NO. 158
 MACH 5.10 RE/FT 1.3374E 06 REL LENGTH(FT) 3.000 213.37 2085.1 528.22 0.3048 1.2283E 06 0.3048 1.000 0.3048 1.000
 MACH 5.10 RE/FT 1.3374E 06 REL LENGTH(FT) 3.000 213.37 2085.1 528.22 0.3048 1.2283E 06 0.3048 1.000 0.3048 1.000

CHAN	T/C	H/M/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/M/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.256	-0.0000	-0.0000	-0.0000	-0.0000	36	226	0.256	0.0058	0.0058	0.0067	0.0070
12	302	0.256	-0.0000	-0.0000	-0.0000	-0.0000	37	227	0.254	0.0022	0.0022	0.0025	0.0026
13	303	0.255	-0.0000	-0.0000	-0.0000	-0.0000	38	228	0.253	0.0012	0.0012	0.0014	0.0015
14	304	0.256	-0.0000	-0.0000	-0.0000	-0.0000	39	229	0.253	0.0006	0.0006	0.0007	0.0007
15	305	0.256	-0.0000	-0.0000	-0.0000	-0.0000	40	230	0.252	0.0002	0.0002	0.0002	0.0002
16	306	0.255	-0.0000	-0.0000	-0.0000	-0.0000	41	231	0.251	-0.0009	-0.0009	-0.0010	-0.0010
17	307	0.256	-0.0000	-0.0000	-0.0000	-0.0000	42	232	0.252	0.0006	0.0006	-0.0007	-0.0007
18	308	0.255	-0.0000	-0.0000	-0.0000	-0.0000	43	233	0.253	-0.0002	-0.0002	-0.0004	-0.0004
19	309	0.255	-0.0000	-0.0000	-0.0000	-0.0000	44	234	0.253	-0.0002	-0.0002	-0.0002	-0.0002
20	310	0.255	-0.0000	-0.0000	-0.0000	-0.0000	45	235	0.254	0.0008	0.0008	0.0009	0.0010
21	311	0.256	-0.0000	-0.0000	-0.0000	-0.0000	46	236	0.254	0.0023	0.0023	0.0026	0.0027
22	312	0.255	-0.0000	-0.0000	-0.0000	-0.0000	47	237	0.256	0.0061	0.0061	0.0093	0.0098
23	313	0.256	-0.0000	-0.0000	-0.0000	-0.0000	48	238	0.255	0.0341	0.0341	0.0390	0.0411
24	314	0.256	-0.0000	-0.0000	-0.0000	-0.0000	49	239	0.256	0.0526	0.0526	0.0501	0.0633
25	315	0.256	-0.0000	-0.0000	-0.0000	-0.0000	50	240	0.257	0.0573	0.0573	0.0655	0.0670
26	316	0.255	-0.0000	-0.0000	-0.0000	-0.0000	51	241	0.256	0.0723	0.0723	0.0826	0.0870
27	317	0.256	-0.0000	-0.0000	-0.0000	-0.0000	52	242	0.257	0.0769	0.0769	0.0879	0.0926
28	318	0.255	-0.0000	-0.0000	-0.0000	-0.0000	53	243	0.257	0.0777	0.0777	0.0888	0.0935
29	319	0.255	-0.0000	-0.0000	-0.0000	-0.0000	54	244	0.257	0.0745	0.0745	0.0852	0.0897
30	221	0.256	0.0578	0.0578	0.0578	0.0578	55	245	0.257	0.0772	0.0772	0.0887	0.0930
31	222	0.259	0.0624	0.0624	0.0624	0.0624	56	246	0.256	0.0790	0.0790	0.0913	0.0951
32	223	0.258	0.0501	0.0501	0.0501	0.0501	57	247	0.256	0.1002	0.1002	0.1145	0.1226
33	224	0.258	0.0390	0.0390	0.0390	0.0390	58	248	0.256	0.1095	0.1095	0.1251	0.1318
34	225	0.256	0.0208	0.0208	0.0208	0.0208	59	249	0.256	0.1272	0.1272	0.1454	0.1532
35	225	0.256	0.0208	0.0208	0.0208	0.0208	60	250	0.255	0.1546	0.1546	0.1767	0.1861

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	TH(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	QS(WTU/FT2-SEC)	RS(METER)	HA(W/MT)	ST(0.907)	ST(0.874)	TIME(SEC)
11	301	312.9	563.2	-0.000	-0.000	15.116	13.320	9.304H	1.000	-0.000E-39	-0.000E-39	0.204
12	302	313.3	564.0	-0.000	-0.000	15.109	13.313	9.304H	1.000	-0.000E-39	-0.000E-39	0.175
13	303	313.5	560.7	-0.000	-0.000	15.141	13.341	RS(FT)	1.000	-0.000E-39	-0.000E-39	0.271
14	304	313.5	564.0	-0.000	-0.000	15.109	13.313	RS(FT)	1.000	-0.000E-39	-0.000E-39	0.309
15	305	312.7	562.9	-0.000	-0.000	15.119	13.322	1.000J	1.000	-0.000E-39	-0.000E-39	0.232
16	306	312.0	561.7	-0.000	-0.000	15.131	13.333	1.000J	1.000	-0.000E-39	-0.000E-39	0.106
17	307	312.6	562.6	-0.000	-0.000	15.122	13.324	1.000J	1.000	-0.000E-39	-0.000E-39	0.065
18	308	311.4	560.9	-0.000	-0.000	15.139	13.339	1.000J	1.000	-0.000E-39	-0.000E-39	0.041
19	309	312.0	561.6	0.000	0.000	15.132	13.333	1.000J	1.000	-0.000E-39	-0.000E-39	0.063
20	310	311.7	561.1	-0.000	-0.000	15.137	13.338	1.000J	1.000	-0.000E-39	-0.000E-39	0.042
21	311	312.7	562.9	-0.000	-0.000	15.119	13.322	1.000J	1.000	-0.000E-39	-0.000E-39	0.140
22	312	313.6	564.4	-0.000	-0.000	15.104	13.309	1.000J	1.000	-0.000E-39	-0.000E-39	0.131
23	313	312.3	562.2	-0.000	-0.000	15.126	13.328	1.000J	1.000	-0.000E-39	-0.000E-39	0.119
24	314	312.8	563.0	-0.000	-0.000	15.118	13.321	1.000J	1.000	-0.000E-39	-0.000E-39	0.102
25	315	312.7	562.9	-0.000	-0.000	15.119	13.322	1.000J	1.000	-0.000E-39	-0.000E-39	0.139
26	316	312.3	562.1	-0.000	-0.000	15.127	13.329	1.000J	1.000	-0.000E-39	-0.000E-39	0.023
27	317	312.7	562.9	-0.000	-0.000	15.119	13.322	1.000J	1.000	-0.000E-39	-0.000E-39	0.213
28	318	312.4	562.2	-0.000	-0.000	15.125	13.328	1.000J	1.000	-0.000E-39	-0.000E-39	0.065
29	319	311.9	561.3	-0.000	-0.000	15.134	13.335	1.000J	1.000	-0.000E-39	-0.000E-39	0.000
30	221	313.7	564.7	0.873	0.769	15.028	13.307	1.885E-04	1.986E-04	1.986E-04	1.986E-04	0.223
31	222	316.7	570.1	0.938	0.827	15.048	13.260	2.034E-04	2.144E-04	2.144E-04	2.144E-04	0.122
32	223	315.5	567.8	0.755	0.665	15.070	13.279	1.635E-04	1.722E-04	1.722E-04	1.722E-04	0.215
33	224	315.0	566.9	0.589	0.519	15.079	13.287	1.273E-04	1.341E-04	1.341E-04	1.341E-04	0.191
34	225	315.6	564.4	0.314	0.277	15.044	13.309	6.789E-05	7.152E-05	7.152E-05	7.152E-05	0.446
35	226	312.8	563.1	0.088	0.078	15.117	13.320	1.9029E-05	2.0045E-05	2.0045E-05	2.0045E-05	0.467
36	227	310.0	559.8	0.033	0.029	15.150	13.349	7.0879E-06	7.4654E-06	7.4654E-06	7.4654E-06	0.223
37	228	308.9	556.1	0.019	0.016	15.167	13.364	4.0744E-06	4.2384E-06	4.2384E-06	4.2384E-06	0.517
38	229	307.6	554.0	0.009	0.008	15.187	13.381	1.8803E-06	1.9802E-06	1.9802E-06	1.9802E-06	0.967
39	230	307.4	553.4	0.003	0.003	15.207	13.399	6.5667E-07	6.8938E-07	6.8938E-07	6.8938E-07	2.723
40	231	307.4	553.4	-0.013	-0.011	15.213	13.404	-2.7846E-06	-2.9322E-06	-2.9322E-06	-2.9322E-06	0.419
41	232	308.5	555.4	-0.009	-0.008	15.193	13.387	-1.9673E-06	-2.0717E-06	-2.0717E-06	-2.0717E-06	0.462
42	233	309.1	556.3	-0.005	-0.005	15.184	13.379	-1.0981E-06	-1.1565E-06	-1.1565E-06	-1.1565E-06	0.172
43	234	309.7	557.4	-0.003	-0.002	15.173	13.369	-5.8685E-07	-6.1805E-07	-6.1805E-07	-6.1805E-07	0.861
44	235	310.3	558.5	0.012	0.011	15.163	13.360	2.5959E-06	2.7340E-06	2.7340E-06	2.7340E-06	0.944
45	236	311.1	560.1	0.034	0.030	15.147	13.347	7.3596E-06	7.7318E-06	7.7318E-06	7.7318E-06	0.587
46	237	312.4	562.7	0.123	0.109	15.121	13.324	2.6371E-05	2.7989E-05	2.7989E-05	2.7989E-05	0.589
47	238	313.4	564.1	0.516	0.454	15.107	13.312	1.1136E-04	1.1731E-04	1.1731E-04	1.1731E-04	0.219
48	239	312.9	563.1	0.795	0.701	15.117	13.320	1.7159E-04	1.8070E-04	1.8070E-04	1.8070E-04	0.026
49	240	314.4	568.0	0.865	0.762	15.089	13.314	1.8700E-04	1.9700E-04	1.9700E-04	1.9700E-04	0.026
50	241	313.2	563.8	1.092	0.963	15.110	13.314	2.3588E-04	2.4648E-04	2.4648E-04	2.4648E-04	0.105
51	242	314.5	566.1	1.160	1.022	15.087	13.294	2.5093E-04	2.6435E-04	2.6435E-04	2.6435E-04	0.313
52	243	313.8	564.9	1.173	1.033	15.099	13.304	2.5340E-04	2.6694E-04	2.6694E-04	2.6694E-04	0.208
53	244	314.7	566.4	1.124	0.990	15.084	13.291	2.4315E-04	2.5618E-04	2.5618E-04	2.5618E-04	0.212
54	245	314.9	566.4	1.166	1.027	15.099	13.304	2.5093E-04	2.6435E-04	2.6435E-04	2.6435E-04	0.225
55	246	313.7	564.6	1.193	1.051	15.102	13.307	2.5771E-04	2.6540E-04	2.6540E-04	2.6540E-04	0.251
56	247	313.4	564.1	1.513	1.334	15.107	13.311	3.2686E-04	3.4432E-04	3.4432E-04	3.4432E-04	0.295
57	248	312.8	563.0	1.458	1.258	15.118	13.321	3.5718E-04	3.7624E-04	3.7624E-04	3.7624E-04	0.332
58	249	312.9	563.0	1.923	1.695	15.116	13.319	4.1512E-04	4.3728E-04	4.3728E-04	4.3728E-04	0.371
59	250	312.4	562.3	2.339	2.061	15.125	13.327	5.0444E-04	5.3135E-04	5.3135E-04	5.3135E-04	0.394

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6891E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERO AUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***															
MACH	RE/METER	REL	3.8720E 06	REL	0.914	PT(ATM)	TT(1.000)	TT(1.000)	TT(1.000)	TT(1.000)	TT(1.000)	TT(1.000)	TT(1.000)	TT(1.000)	TT(1.000)
5.10	4.2344E 06	RE/FT	3.8720E 06	REL	3.000	PT(PSI)	213.37	213.37	213.37	213.37	213.37	213.37	213.37	213.37	213.37
5.10	1.2907E 06	RE/FT	3.8720E 06	REL	3.000	PT(PSI)	213.37	213.37	213.37	213.37	213.37	213.37	213.37	213.37	213.37
CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	TEST NO.	RUN NO.
61	276	0.248	-0.0003	-0.0003	-0.0003	-0.0003	69	284	0.255	0.0795	0.0795	0.0795	0.0795	156	76
62	277	0.249	-0.0001	-0.0001	-0.0001	-0.0001	70	285	0.256	0.0838	0.0838	0.0838	0.0838		
63	278	0.250	0.0005	0.0005	0.0005	0.0005	71	286	0.257	0.0823	0.0823	0.0823	0.0823		
64	279	0.251	0.0042	0.0042	0.0042	0.0042	72	287	0.257	0.0922	0.0922	0.0922	0.0922		
65	280	0.251	0.0341	0.0341	0.0341	0.0341	73	288	0.259	0.0918	0.0918	0.0918	0.0918		
66	281	0.252	0.0497	0.0497	0.0497	0.0497	74	289	0.260	0.1173	0.1173	0.1173	0.1173		
67	282	0.253	0.0713	0.0713	0.0713	0.0713	75	290	0.259	0.1336	0.1336	0.1336	0.1336		
68	283	0.254	0.0821	0.0821	0.0821	0.0821	75	290	0.259	0.1336	0.1336	0.1336	0.1336		

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q1W/CM2	Q1BTU/FT2-SEC	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(I0.907)	ST(I0.874)	TIME(SEC)
61	276	310.9	559.7	-0.004	-0.004	15.619	13.762	-9.4947E-07	-9.9956E-07	1.070
62	277	311.4	560.5	-0.002	-0.001	15.611	13.755	-3.4673E-07	-3.6503E-07	3.293
63	278	312.3	562.1	0.007	0.006	15.595	13.741	1.5147E-06	1.5947E-06	-0.903
64	279	313.7	564.6	0.065	0.057	15.570	13.719	1.3787E-05	1.4517E-05	0.526
65	280	314.1	565.4	0.531	0.468	15.562	13.712	1.1291E-04	1.1890E-04	0.357
66	281	315.5	568.0	0.772	0.680	15.537	13.690	1.6459E-04	1.7332E-04	-0.344
67	282	316.9	570.5	1.106	0.975	15.512	13.668	2.3621E-04	2.4876E-04	-0.271
68	283	318.5	573.3	1.271	1.120	15.485	13.544	2.7176E-04	2.8624E-04	0.083
69	284	319.4	574.9	1.230	1.084	15.468	13.630	2.6344E-04	2.7749E-04	0.066
70	285	320.9	577.6	1.294	1.140	15.442	13.607	2.7765E-04	2.9248E-04	0.052
71	286	321.3	578.3	1.270	1.117	15.435	13.600	2.7251E-04	2.8708E-04	0.052
72	287	322.3	580.1	1.421	1.252	15.418	13.585	3.0544E-04	3.2179E-04	0.036
73	288	324.2	583.5	1.413	1.245	15.383	13.555	3.0434E-04	3.2067E-04	0.039
74	289	325.8	586.4	1.801	1.587	15.356	13.530	3.8871E-04	4.0961E-04	0.044
75	290	324.1	583.5	2.055	1.811	15.384	13.556	4.4258E-04	4.6633E-04	0.025

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6301E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

TEST NO. 158
RUN NO. 76

RS(METER) 0.3048
RS(FT) 1.0000
HAM/HT 1.000
HAM/HT 1.000

HY(JOULE/KG) 1.2570E 06
HT(BTU/LBM) 540.54

TT(DEG K) 1183.5
TT(DEG R) 2130.3

PI(ATM) 14.51
PI(PSSI) 213.37

REL LENGTH(METER) 0.914
REL LENGTH(FT) 3.000

REL 3.8720E 06
REL 3.8720E 06

455

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 4.332 E 13 1.2995 75 5.1
 REL (METER) 1.2995 05
 REL (FEET) 1.2995 75
 LENGTH (METER) 0.924
 LENGTH (FEET) 3.031
 PT (ATM) 4.51
 PT (PSI) 66.31
 TT (DEG K) 1.3 9
 TT (DEG R) 2.35 7
 HT (JULE/KG) 1.1958E 06
 HT (BTU/LBM) 314.21
 RS (FT) 1.000
 HAW/HT 1.000
 TEST NO. 198
 RUN NO. 77
CONSTANT SET 553

CHAN	T/C	H/W/HT	G/QS	H/HS(1.000)	F/FS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	G/QS	F/FS(1.000)	H/HS(0.907)	H/HS(0.874)
1	204	0.262	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	6	206	0.262	-0.0000	-0.0000	-0.0000	-0.0000
2	204	0.262	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.262	-0.0000	-0.0000	-0.0000	-0.0000
3	204	0.262	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.262	-0.0000	-0.0000	-0.0000	-0.0000
4	204	0.262	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.262	-0.0000	-0.0000	-0.0000	-0.0000
5	205	0.262	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.262	-0.0000	-0.0000	-0.0000	-0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.907)	ST(C.974)	TIME(SEC)
1	201	310.9	557.6	0.000	0.000	8.158	7.188	-0.000E-39	-0.000E-39	1.535
2	202	310.5	559.1	0.000	0.000	8.151	7.182	-0.000E-39	-0.000E-39	0.839
3	203	311.1	559.9	0.000	0.000	8.147	7.178	-0.000E-39	-0.000E-39	0.499
4	204	311.3	560.4	0.000	0.000	8.144	7.176	-0.000E-39	-0.000E-39	0.235
5	205	311.4	560.5	0.000	0.000	8.144	7.176	-0.000E-39	-0.000E-39	-0.161
6	206	311.7	561.1	0.000	0.000	8.143	7.172	-0.000E-39	-0.000E-39	-0.234
7	207	311.8	561.2	0.000	0.000	8.143	7.172	-0.000E-39	-0.000E-39	-0.110
8	208	312.2	561.9	0.000	0.000	8.136	7.169	-0.000E-39	-0.000E-39	0.138
9	209	312.3	562.1	0.000	0.000	8.135	7.168	-0.000E-39	-0.000E-39	0.165
10	210	312.1	561.8	0.000	0.000	8.136	7.169	-0.000E-39	-0.000E-39	0.143

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.1679E-7 (SLUGS/FT2-SEC)

PROBE NO. = 1

TFTST NO. 158
RUN NO. 77

HAW/HT 1.000
HAW/HT 1.000

RS(FIT) 1.000
RS(FIT) 1.000

HT(JOULE/KG) 1.1958E 06
HT(BTU/LBM) 314.71

PT(ATM) 4.51
PT(PST) 66.31

REL LENGTH(METER) 1.2996E 06
REL LENGTH(FT) 3.33

REL LENGTH(METER) 1.2996E 06
REL LENGTH(FT) 3.33

REL LENGTH(METER) 1.2996E 06
REL LENGTH(FT) 3.33

REL LENGTH(METER) 1.2996E 06
REL LENGTH(FT) 3.33

REL LENGTH(METER) 1.2996E 06
REL LENGTH(FT) 3.33

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
 MACH 5.10
 MACH 5.10
 REL LENGTH (METER) 0.914
 REL LENGTH (FT) 3.000
 P(ATM) 4.51
 P(P(SI)) 66.31
 T(1/2 DEG K) 117.00
 T(1/2 DEG R) 215.9
 HT (Joule/KS) 1.2075E 06
 HT (BTU/LBM) 519.25
 RS (METER) 0.348
 RS (FT) 1.1400
 FAW/HT 1.300
 HAM/HT 1.700
 TEST NO. 158
 RUN NO. 77

CHAN	T/C	HW/HT	C/QS	H/HS(1.000)	F/FS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	301	0.259	0.1901	0.0683	0.0683	0.0720	36	226	0.259	0.0000	0.0000	0.0000	0.0000
2	302	0.259	0.0856	0.0775	0.0775	0.0790	37	227	0.259	0.0000	0.0000	0.0000	0.0000
3	303	0.259	0.0839	0.0676	0.0676	0.0712	38	228	0.259	0.0000	0.0000	0.0000	0.0000
4	304	0.259	0.0763	0.0598	0.0598	0.0720	39	229	0.259	0.0000	0.0000	0.0000	0.0000
5	305	0.259	0.0775	0.0740	0.0740	0.0775	40	230	0.259	0.0000	0.0000	0.0000	0.0000
6	306	0.259	0.0655	0.0739	0.0739	0.0749	41	231	0.259	0.0000	0.0000	0.0000	0.0000
7	307	0.259	0.0612	0.0689	0.0689	0.0737	42	232	0.259	0.0000	0.0000	0.0000	0.0000
8	308	0.259	0.0590	0.0639	0.0639	0.0740	43	233	0.259	0.0000	0.0000	0.0000	0.0000
9	309	0.259	0.0591	0.0665	0.0665	0.0712	44	234	0.259	0.0000	0.0000	0.0000	0.0000
10	310	0.259	0.0598	0.0740	0.0740	0.0720	45	235	0.259	0.0000	0.0000	0.0000	0.0000
11	311	0.259	0.0740	0.0740	0.0740	0.0740	46	236	0.259	0.0000	0.0000	0.0000	0.0000
12	312	0.259	0.0739	0.0689	0.0689	0.0890	47	237	0.260	0.0000	0.0000	0.0000	0.0000
13	313	0.259	0.0689	0.0689	0.0689	0.0830	48	238	0.260	0.0000	0.0000	0.0000	0.0000
14	314	0.259	0.0639	0.0639	0.0639	0.0769	49	239	0.260	0.0000	0.0000	0.0000	0.0000
15	315	0.259	0.0665	0.0665	0.0665	0.0801	50	240	0.260	0.0000	0.0000	0.0000	0.0000
16	316	0.259	0.0631	0.0631	0.0631	0.0760	51	241	0.260	0.0000	0.0000	0.0000	0.0000
17	317	0.259	0.0598	0.0598	0.0598	0.0721	52	242	0.260	0.0000	0.0000	0.0000	0.0000
18	318	0.259	0.0572	0.0572	0.0572	0.0689	53	243	0.260	0.0000	0.0000	0.0000	0.0000
19	319	0.259	0.0567	0.0567	0.0567	0.0683	54	244	0.261	0.0000	0.0000	0.0000	0.0000
20	320	0.260	0.0000	0.0000	0.0000	0.0646	55	245	0.260	0.0000	0.0000	0.0000	0.0000
21	321	0.260	0.0000	0.0000	0.0000	0.0000	56	246	0.260	0.0000	0.0000	0.0000	0.0000
22	322	0.261	0.0000	0.0000	0.0000	0.0000	57	247	0.260	0.0000	0.0000	0.0000	0.0000
23	323	0.260	0.0000	0.0000	0.0000	0.0000	58	248	0.260	0.0000	0.0000	0.0000	0.0000
24	324	0.260	0.0000	0.0000	0.0000	0.0000	59	249	0.260	0.0000	0.0000	0.0000	0.0000
25	325	0.260	0.0000	0.0000	0.0000	0.0000	60	250	0.260	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.11 4.2574E-05 1.2803E-06 3.0000 6.61 4.55E-09 513.5 1.0000
 REL LENGTH(METER) 3.914 7.51 1.42E-05 4.6475E-05
 REL LENGTH(FT) 12.84 24.5 4.6475E-05 1.524E-04
 MACH 5.11 4.2574E-05 1.2803E-06 3.0000 6.61 4.55E-09 513.5 1.0000

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(LW/CM2)	C(BTU/FT2-SEC)	Q(SW/CM2)	QS(BTU/FT2-S.C)	ST(C-907)	ST(C-874)	TIME(SEC)
1	301	311.5	560.7	0.744	0.656	8.250	7.269	5.2187E-04	5.4988E-04	0.354
2	302	311.5	560.0	0.766	0.622	8.250	7.269	4.9529E-04	5.2187E-04	0.342
3	303	311.5	559.6	0.593	0.811	8.250	7.275	4.3583E-04	4.6568E-04	0.344
4	304	311.4	560.5	0.590	0.811	8.254	7.273	4.4153E-04	4.6568E-04	0.375
5	305	311.4	559.9	0.593	0.803	8.254	7.274	4.4046E-04	4.7251E-04	0.274
6	306	310.9	559.6	0.477	0.845	8.256	7.272	3.7938E-04	3.9972E-04	0.234
7	307	311.1	560.2	0.303	0.945	8.258	7.276	3.5406E-04	3.7355E-04	0.234
8	308	310.7	559.2	0.487	0.829	8.258	7.276	3.4139E-04	3.5969E-04	0.237
9	309	311.1	560.0	0.488	0.829	8.254	7.273	3.4232E-04	3.6068E-04	0.241
10	310	311.0	559.8	0.493	0.823	8.254	7.273	3.4555E-04	3.6455E-04	0.241
11	311	310.9	559.7	0.514	0.809	8.255	7.274	4.1861E-04	4.5159E-04	0.302
12	312	311.5	560.8	0.609	0.537	8.249	7.259	4.2755E-04	4.5050E-04	0.288
13	313	311.6	559.8	0.569	0.561	8.255	7.274	3.9678E-04	4.2015E-04	0.280
14	314	311.3	560.4	0.527	0.604	8.251	7.270	3.9971E-04	3.8954E-04	0.258
15	315	311.2	560.2	0.549	0.484	8.252	7.271	3.8539E-04	4.0569E-04	0.264
16	316	311.6	560.9	0.521	0.459	8.248	7.278	3.7537E-04	3.8493E-04	0.262
17	317	311.1	561.2	0.493	0.435	8.247	7.266	3.4621E-04	3.6480E-04	0.227
18	318	311.8	561.2	0.472	0.412	8.247	7.257	3.3114E-04	3.4894E-04	0.220
19	319	311.0	561.3	0.467	0.412	8.246	7.256	3.2805E-04	3.4565E-04	0.213
20	320	311.0	562.3	0.000	0.000	8.241	7.261	0.0000E-04	0.0000E-04	0.000
21	321	312.7	562.3	0.000	0.000	8.241	7.261	0.0000E-04	0.0000E-04	0.162
22	322	313.4	564.2	0.000	0.000	8.231	7.252	0.0000E-04	0.0000E-04	0.198
23	323	312.9	563.2	0.000	0.000	8.236	7.257	0.0000E-04	0.0000E-04	0.055
24	324	312.7	562.9	0.000	0.000	8.238	7.259	0.0000E-04	0.0000E-04	0.158
25	325	312.1	561.8	0.000	0.000	8.244	7.264	0.0000E-04	0.0000E-04	0.496
26	326	311.9	561.4	0.000	0.000	8.246	7.266	0.0000E-04	0.0000E-04	0.308
27	327	311.2	560.2	0.000	0.000	8.253	7.272	0.0000E-04	0.0000E-04	0.491
28	328	310.9	559.6	0.000	0.000	8.256	7.274	0.0000E-04	0.0000E-04	0.919
29	329	313.6	559.0	0.000	0.000	8.259	7.277	0.0000E-04	0.0000E-04	0.628
30	330	310.2	558.3	0.000	0.000	8.263	7.281	0.0000E-04	0.0000E-04	0.616
31	331	310.4	558.7	0.000	0.000	8.261	7.279	0.0000E-04	0.0000E-04	0.289
32	332	310.7	559.3	0.000	0.000	8.257	7.276	0.0000E-04	0.0000E-04	0.657
33	333	310.9	559.6	0.000	0.000	8.256	7.274	0.0000E-04	0.0000E-04	0.350
34	334	311.1	560.0	0.000	0.000	8.254	7.272	0.0000E-04	0.0000E-04	0.906
35	335	311.3	560.4	0.000	0.000	8.252	7.271	0.0000E-04	0.0000E-04	0.812
36	336	311.7	561.0	0.000	0.000	8.248	7.267	0.0000E-04	0.0000E-04	0.582
37	337	312.7	561.9	0.000	0.000	8.243	7.263	0.0000E-04	0.0000E-04	0.673
38	338	312.4	562.6	0.000	0.000	8.239	7.260	0.0000E-04	0.0000E-04	0.314
39	339	312.4	562.3	0.000	0.000	8.241	7.261	0.0000E-04	0.0000E-04	0.181
40	340	312.9	563.2	0.000	0.000	8.236	7.257	0.0000E-04	0.0000E-04	0.034
41	341	312.6	562.8	0.000	0.000	8.234	7.255	0.0000E-04	0.0000E-04	0.055
42	342	313.0	563.5	0.000	0.000	8.234	7.255	0.0000E-04	0.0000E-04	0.031
43	343	313.0	563.9	0.000	0.000	8.235	7.256	0.0000E-04	0.0000E-04	0.212
44	344	313.3	564.0	0.000	0.000	8.232	7.253	0.0000E-04	0.0000E-04	0.202
45	345	313.1	563.5	0.000	0.000	8.234	7.256	0.0000E-04	0.0000E-04	0.190
46	346	313.1	563.5	0.000	0.000	8.234	7.256	0.0000E-04	0.0000E-04	0.189
47	347	313.3	563.5	0.000	0.000	8.234	7.256	0.0000E-04	0.0000E-04	0.189
48	348	312.7	562.9	0.000	0.000	8.238	7.258	0.0000E-04	0.0000E-04	0.173
49	349	312.7	562.9	0.000	0.000	8.237	7.258	0.0000E-04	0.0000E-04	0.173
50	350	312.6	562.6	0.000	0.000	8.239	7.260	0.0000E-04	0.0000E-04	0.167

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.0161E-11 (SLUUS/FT2-SEC)

PROBE NO. *

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.17 1.3855E-06 1.2474E-06 1.2404E-06
 MACH 5.1C 4.1345E-05 1.2404E-06 3.0000E-06
 TEST NO. 158
 RUN NO. 77

CHAN	T/C	TW(DEG K)	TW(DEG RI)	QLW(GM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.967)	ST(O.874)	TIME(SEC)
51	276	312.2	559.7	-0.000	8.484	8.484	7.475	-0.0000E-39	-0.0000E-39	1.630
52	277	311.5	560.1	-0.000	5.482	5.482	7.473	-0.0000E-39	-0.0000E-39	0.867
53	278	311.5	563.7	-0.000	8.478	8.478	7.470	-0.0000E-39	-0.0000E-39	0.677
54	279	312.2	561.9	-0.000	8.471	8.471	7.464	-0.0000E-39	-0.0000E-39	0.594
65	280	319.0	556.2	-0.000	8.503	8.503	7.492	-0.0000E-39	-0.0000E-39	0.496
66	281	313.2	563.7	-0.000	8.462	8.462	7.456	-0.0000E-39	-0.0000E-39	-0.184
67	282	313.7	564.7	-0.000	8.456	8.456	7.451	-0.0000E-39	-0.0000E-39	-0.165
68	283	314.5	566.2	-0.000	8.448	8.448	7.444	-0.0000E-39	-0.0000E-39	0.038
69	284	314.5	566.6	-0.000	8.445	8.445	7.441	-0.0000E-39	-0.0000E-39	0.033
70	285	315.5	567.9	-0.000	8.439	8.439	7.435	-0.0000E-39	-0.0000E-39	1.030
71	286	315.6	568.5	-0.000	8.438	8.438	7.435	-0.0000E-39	-0.0000E-39	0.023
72	287	316.0	568.7	-0.000	8.434	8.434	7.432	-0.0000E-39	-0.0000E-39	-0.003
73	288	316.7	570.3	-0.000	8.427	8.427	7.425	-0.0000E-39	-0.0000E-39	0.025
74	289	317.3	571.2	-0.000	8.420	8.420	7.420	-0.0000E-39	-0.0000E-39	0.031
75	290	316.6	569.8	-0.000	8.428	8.428	7.426	-0.0000E-39	-0.0000E-39	0.028

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1437E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 REL 1.2996E 06 1.2996E 06 1.2996E 06 1.2996E 06 1.2996E 06 1.2996E 06 1.2996E 06 1.2996E 06 1.2996E 06 1.2996E 06
 REL LENGTH(FT) 0.914 0.914 0.914 0.914 0.914 0.914 0.914 0.914 0.914 0.914
 PT(ATM) 4.51 4.51 4.51 4.51 4.51 4.51 4.51 4.51 4.51 4.51
 PT(PST) 66.31 66.31 66.31 66.31 66.31 66.31 66.31 66.31 66.31 66.31
 TT(DEC K) 1130.9 1130.9 1130.9 1130.9 1130.9 1130.9 1130.9 1130.9 1130.9 1130.9
 TT(DEC R) 2035.7 2035.7 2035.7 2035.7 2035.7 2035.7 2035.7 2035.7 2035.7 2035.7
 HT(JOULE/KG) 1.1958E C6 1.1958E C6 1.1958E C6 1.1958E C6 1.1958E C6 1.1958E C6 1.1958E C6 1.1958E C6 1.1958E C6
 HT(BTU/LBM) 514.21 514.21 514.21 514.21 514.21 514.21 514.21 514.21 514.21 514.21
 RS(METER) 0.304E 0.304E 0.304E 0.304E 0.304E 0.304E 0.304E 0.304E 0.304E 0.304E
 RS(FT) 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
 HAM/HT 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000
 HAM/HT CONSTANT SET .754 .754 .754 .754 .754 .754 .754 .754 .754 .754
 TEST NO. 158 158 158 158 158 158 158 158 158 158
 RUN NO. 77 77 77 77 77 77 77 77 77 77

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	C/C5	H/HS(1.000)	F/HS(0.907)	F/HS(0.874)
1	201	0.260	0.0009	0.0009	0.0010	0.0010	6	206	0.262	0.0398	0.0398	0.0455	0.0480
2	202	0.261	0.0051	0.0051	0.0052	0.0052	7	207	0.262	0.0471	0.0471	0.0539	0.0568
3	203	0.261	0.0224	0.0224	0.0271	0.0271	8	208	0.262	0.0547	0.0547	0.0625	0.0659
4	204	0.262	0.0274	0.0274	0.0313	0.0313	9	209	0.262	0.0536	0.0536	0.0614	0.0647
5	205	0.262	0.0355	0.0355	0.0406	0.0428	10	210	0.262	0.0494	0.0494	0.0565	0.0596

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL	TM(DEG K)	TM(DEG R)	C (IN/CM2)	C (BTU/FT2-SEC)	CS (BTU/FT2-SEC)	ST (O.907)	ST (O.874)	TIME (SEC)
5.10	1.4212E 06	1.2996E 06	309.9	557.8	C.007	0.006	7.188	4.5665E-06	5.2336E-06	1.535
MACH	RE/FT	REL	310.6	559.1	C.042	C.037	7.182	2.5450E-05	3.1035E-05	C.839
5.10	4.3320E 05	1.2996E 06	311.1	559.9	0.103	C.161	7.176	1.2909E-04	1.3604E-04	C.499
			311.3	560.4	0.223	0.196	7.176	1.5742E-04	1.6590E-04	0.235
			311.4	560.5	0.289	0.255	7.172	2.0430E-04	2.1531E-04	-0.161
			311.7	561.1	0.324	0.285	7.172	2.2895E-04	2.4130E-04	-0.234
			311.8	561.2	0.303	0.338	7.172	2.7108E-04	2.8569E-04	-C.111
			312.2	561.9	0.445	C.592	7.169	3.1454E-04	3.3151E-04	C.133
			312.3	562.1	0.436	C.385	7.168	3.0866E-04	3.2532E-04	C.163
			312.1	561.8	0.402	C.354	7.169	2.8429E-04	2.9963E-04	C.143

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1679E-01 (SLUGS/FT2-SEC)

PROBE NO. 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***

CHAN	T/C	H/HT	G/QS	H/HS(I.GCO)	F/HS(I.GCO)	F/HS(I.GCO)	H/HS(I.GCO)	H/HS(I.GCO)	F/HS(I.GCO)	F/HS(I.GCO)	H/HS(I.GCO)	H/HS(I.GCO)
11	301	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0029	0.0034	0.0034	0.0034	0.0034	0.0034
12	302	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0008	0.0009	0.0009	0.0009	0.0009	0.0009
13	303	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
14	304	0.259	-0.0000	-0.0000	-0.0000	-0.0000	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
15	305	0.259	-0.0000	-0.0000	-0.0000	-0.0000	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007	-0.0007
16	306	0.259	-0.0000	-0.0000	-0.0000	-0.0000	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005	-0.0005
17	307	0.259	-0.0000	-0.0000	-0.0000	-0.0000	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004	-0.0004
18	308	0.259	-0.0000	-0.0000	-0.0000	-0.0000	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
19	309	0.259	-0.0000	-0.0000	-0.0000	-0.0000	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003	-0.0003
20	310	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
21	311	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0009	0.0011	0.0011	0.0011	0.0011	0.0011
22	312	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0053	0.0061	0.0061	0.0061	0.0061	0.0061
23	313	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0232	0.0265	0.0265	0.0265	0.0265	0.0265
24	314	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0366	0.0418	0.0418	0.0418	0.0418	0.0418
25	315	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0410	0.0469	0.0469	0.0469	0.0469	0.0469
26	316	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0536	0.0613	0.0613	0.0613	0.0613	0.0613
27	317	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0578	0.0661	0.0661	0.0661	0.0661	0.0661
28	318	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0684	0.0668	0.0668	0.0668	0.0668	0.0668
29	319	0.259	-0.0000	-0.0000	-0.0000	-0.0000	0.0574	0.0639	0.0639	0.0639	0.0639	0.0639
30												
31	221	0.260	0.0567	0.0567	0.0567	0.0567	0.0534	0.0534	0.0534	0.0534	0.0534	0.0534
32	222	0.261	0.0572	0.0572	0.0572	0.0572	0.0504	0.0504	0.0504	0.0504	0.0504	0.0504
33	223	0.260	0.0445	0.0445	0.0445	0.0445	0.0557	0.0557	0.0557	0.0557	0.0557	0.0557
34	224	0.260	0.0327	0.0327	0.0327	0.0327	0.0524	0.0524	0.0524	0.0524	0.0524	0.0524
35	225	0.260	0.0138	0.0138	0.0138	0.0138	0.0519	0.0519	0.0519	0.0519	0.0519	0.0519

MACH 5.10
 RE/METER 1.4601E 06
 REL LENGTH(METER) C.974
 PT(PTM) 4.51
 TT(DEC K) 1141.0
 HT(JULE/KG) 1.2075E 06
 RS(METER) 0.3048
 HAH/HT 1.000
 MACH 5.10
 RE/FT 4.2674E 05
 REL LENGTH(FT) 3.000
 PT(PSI) 66.31
 TT(DEC R) 2053.9
 HT(BTU/LBM) 519.25
 RS(FT) 1.0000
 HAH/HT 1.000
 TEST NO. 158
 RUN NO. 77

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 1.4001E 06 1.2802E 06 4.51 1141-C 1.2075E 06 0.3048 1.000 HAM/MT 77
 MACH 5.10 4.2674E 05 1.2802E 06 60.31 2053.9 519.25 1.000C 1.000 HAM/MT

CHAN	T/C	TM(DEG K)	TMIDEG R)	Q(W/CM2)	G(RTL/FT2-SEC)	(S1M/CP2)	QS(TBU/FT2-SEC)	STIO(.907)	STIO(.874)	TIME(SEC)
11	301	311.5	560.7	-0.000	-0.000	8.250	7.269	-0.000E-39	-0.000E-39	0.354
12	302	311.5	560.6	-0.000	-0.000	8.250	7.269	-0.000E-39	-0.000E-39	0.342
13	303	310.9	559.6	-0.000	-0.000	8.254	7.275	-0.000E-39	-0.000E-39	0.344
14	304	311.4	560.5	-0.000	-0.000	8.251	7.270	-0.000E-39	-0.000E-39	0.313
15	305	311.1	559.9	-0.000	-0.000	8.256	7.273	-0.000E-39	-0.000E-39	0.276
16	306	310.9	559.6	-0.000	-0.000	8.253	7.274	-0.000E-39	-0.000E-39	0.233
17	307	311.1	560.0	-0.000	-0.000	8.258	7.276	-0.000E-39	-0.000E-39	0.237
18	308	310.7	559.2	-0.000	-0.000	8.254	7.273	-0.000E-39	-0.000E-39	0.240
19	309	311.1	560.0	-0.000	-0.000	8.254	7.273	-0.000E-39	-0.000E-39	0.301
20	310	311.0	559.8	-0.000	-0.000	8.255	7.274	-0.000E-39	-0.000E-39	0.288
21	311	310.9	559.7	-0.000	-0.000	8.255	7.274	-0.000E-39	-0.000E-39	0.279
22	312	311.5	560.8	-0.000	-0.000	8.252	7.271	-0.000E-39	-0.000E-39	0.258
23	313	311.0	559.8	-0.000	-0.000	8.252	7.271	-0.000E-39	-0.000E-39	0.264
24	314	311.5	560.4	-0.000	-0.000	8.247	7.266	-0.000E-39	-0.000E-39	0.227
25	315	311.2	560.2	-0.000	-0.000	8.247	7.266	-0.000E-39	-0.000E-39	0.219
26	316	311.6	560.9	-0.000	-0.000	8.246	7.266	-0.000E-39	-0.000E-39	0.213
27	317	311.8	561.2	-0.000	-0.000	8.246	7.266	-0.000E-39	-0.000E-39	0.213
28	318	311.8	561.2	-0.000	-0.000	8.246	7.266	-0.000E-39	-0.000E-39	0.213
29	319	311.8	561.3	-0.000	-0.000	8.246	7.266	-0.000E-39	-0.000E-39	0.213
30	221	-0.0	-0.0	0.467	0.412	8.241	7.261	3.2611E-04	3.4574E-04	0.161
31	222	312.4	562.3	0.471	0.415	8.231	7.252	3.3125E-04	3.4908E-04	0.198
32	223	313.4	564.2	0.366	0.323	8.236	7.257	2.5150E-04	2.7134E-04	0.055
33	224	312.9	563.2	0.269	0.227	8.238	7.259	1.8928E-04	1.9956E-04	0.157
34	225	312.7	562.9	0.113	0.100	8.244	7.264	1.5685E-05	8.3965E-05	0.496
35	226	311.9	561.4	0.024	0.021	8.246	7.266	1.7078E-05	1.7993E-05	0.508
36	227	311.2	560.2	0.004	0.004	8.253	7.272	4.4277E-06	4.6400E-06	0.491
37	228	310.9	559.6	-0.002	-0.002	8.256	7.274	-1.4518E-06	-1.6351E-06	0.919
38	229	310.6	559.6	-0.004	-0.004	8.259	7.277	-1.4744E-06	-1.5534E-06	0.828
39	230	310.2	558.3	-0.006	-0.006	8.263	7.281	-4.0327E-06	-4.2487E-06	0.616
40	231	310.4	558.7	-0.004	-0.004	8.263	7.279	-2.4758E-06	-2.4922E-06	0.289
41	232	310.7	559.3	-0.003	-0.003	8.257	7.276	-2.1246E-06	-2.2385E-06	0.657
42	233	310.9	559.6	-0.002	-0.002	8.254	7.274	-1.6951E-06	-1.7880E-06	0.550
43	234	311.1	560.0	-0.003	-0.003	8.254	7.272	-1.9893E-06	-2.0949E-06	0.908
44	235	311.3	560.4	0.000	0.000	8.254	7.271	3.1011E-07	3.2675E-07	0.812
45	236	311.7	561.0	0.004	0.004	8.248	7.267	5.4279E-06	5.7193E-06	0.582
46	237	312.2	561.9	0.044	0.035	8.243	7.263	3.0953E-05	3.2616E-05	0.673
47	238	312.5	562.6	0.191	0.168	8.239	7.260	1.3421E-04	1.4143E-04	0.514
48	239	312.4	562.3	0.302	0.266	8.241	7.261	2.1844E-04	2.2322E-04	0.180
49	240	312.9	563.2	0.338	0.298	8.236	7.257	2.3740E-04	2.5017E-04	0.033
50	241	312.9	563.2	0.441	0.389	8.238	7.259	3.1012E-04	3.2675E-04	-0.036
51	242	313.0	563.5	0.476	0.419	8.234	7.256	3.3467E-04	3.5267E-04	0.030
52	243	313.0	563.4	0.481	0.423	8.234	7.256	3.3788E-04	3.5605E-04	0.211
53	244	313.3	564.0	0.460	0.405	8.235	7.253	3.2346E-04	3.4087E-04	0.201
54	245	313.1	563.5	0.415	0.387	8.234	7.253	3.0517E-04	3.2580E-04	0.190
55	246	313.1	563.5	0.458	0.415	8.234	7.256	3.2486E-04	3.4755E-04	0.189
56	247	313.0	563.5	0.458	0.415	8.234	7.256	3.2486E-04	3.4755E-04	0.189
57	248	312.7	562.9	0.431	0.380	8.238	7.258	3.0324E-04	3.1957E-04	0.180
58	249	312.7	562.9	0.428	0.377	8.237	7.258	3.0324E-04	3.1683E-04	0.172
59	250	312.6	562.6	0.440	0.388	8.239	7.260	3.0906E-04	3.2567E-04	0.167

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1601E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JUCULE/KG)	RS(METER)	HAW/HT	TEST NO.	77			
5.10	1.3565E 06	1.2404E 06	C.914	4.51	1162.5	1.2325E 06	C.3048	1.000	RUA NO.	77			
MACH	RE/FT	REL	LENGTH(FT)	PT(PST)	TT(CEG R)	HT(LBTU/LBM)	RS(FT)	HAW/HT					
5.10	4.1346E 05	1.2404E 06	3.000	66.31	2092.6	530.01	1.0000	1.000					
CHAN	T/C	HW/HT	C/QS	H/HS(1.000)	H/HS(0.907)	H/HS(C.874)	CHAN	T/C	HW/HT	C/CS	H/HS(1.000)	F/HS(0.907)	H/HS(0.874)
61	276	0.253	C.0002	0.0002	0.0002	0.0002	69	274	C.257	0.0526	0.0526	0.0601	C.0633
62	277	0.254	C.0001	C.0001	C.0001	C.0001	70	285	C.257	0.0530	C.0530	0.0606	C.0634
63	278	C.254	0.0010	C.0011	C.0012	C.0012	71	286	0.257	0.0497	0.0497	0.0569	0.0559
64	279	0.254	0.0037	0.0042	C.0044	C.0044	72	287	0.257	0.0502	0.0502	0.0574	0.0505
65	280	0.252	0.0208	0.0237	0.0250	0.0250	73	288	C.258	0.0484	0.0484	0.0553	0.0583
66	281	0.255	0.0378	0.0432	C.0455	C.0455	74	289	0.259	C.0529	C.0529	0.0605	0.0537
67	282	0.256	C.0509	0.0582	0.0613	0.0613	75	290	C.258	0.0524	0.0524	0.0599	0.0532
68	283	0.256	0.0542	0.0619	0.0652	0.0652							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AEROS RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***									
MACH	RE/METER	REL LENGTH(METER)	PTIATH	TT(DEG K)	WT(JCULE/KG)	RS(METER)	HAW/HT	TEST NG.	77
5.10	1.3565E 06	1.2404E 06	0.914	1162.5	1.2325E 06	0.04P	1.000	158	77
MACH	RE/FT	REL LENGTH(FT)	PT(PST)	TT(DEG R)	WT(LBM)	RS(LIFT)	HAW/HT	RUN NO.	
5.10	4.1346E 05	1.2404E 06	66.31	2092.6	530.01	1.0000	1.000		
CHAN	T/C	TM(DEG K)	GM(CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	CS(BTU/FT2-SEC)	ST(C.907)	ST(O.874)	TIME(SEC)
61	276	311.0	0.001	0.001	8.484	7.475	9.951CE-07	1.0480E-06	1.630
62	277	311.2	0.001	0.001	8.482	7.473	7.1533E-07	7.5337E-07	0.867
63	278	311.5	0.008	0.007	8.478	7.470	5.8061E-06	6.1151E-06	0.877
64	279	312.2	0.031	0.027	8.471	7.464	2.1575E-05	3.2725E-05	0.554
65	280	309.0	0.176	0.155	8.303	7.492	1.2167E-04	1.2813E-04	0.456
66	281	313.2	0.320	0.282	8.462	7.456	2.2192E-04	2.3376E-04	-0.115
67	282	313.7	0.431	0.379	8.456	7.451	2.9867E-04	3.1461E-04	-0.146
68	283	314.5	0.458	0.403	8.448	7.444	3.1773E-04	3.3470E-04	0.018
69	284	314.9	0.444	0.391	8.445	7.441	3.0857E-04	3.2505E-04	0.032
70	285	315.5	0.448	0.394	8.439	7.435	3.1114E-04	3.2778E-04	0.029
71	286	315.6	0.420	0.370	8.438	7.435	2.9180E-04	3.0741E-04	0.023
72	287	316.0	0.423	0.373	8.434	7.432	2.9450E-04	3.1026E-04	-0.004
73	288	316.7	0.408	0.359	8.427	7.425	2.8377E-04	3.0897E-04	0.024
74	289	317.3	0.445	0.392	8.420	7.420	3.1022E-04	3.2686E-04	0.030
75	290	316.6	0.442	0.389	8.428	7.426	3.0763E-04	3.2411E-04	0.028

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1437E-01 (SLUGS/FT2-SEC)

PROBE NC. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.1 4.5927E 06 2.3516E 06 3.0 3.0 1.27E 03 1.2916E 06 5.3046 1.0000 1.0000 1.0000
 MACH 5.1 7.872E 05 2.3516E 06 3.0 3.0 1.27E 03 1.2916E 06 5.3046 1.0000 1.0000 1.0000
 REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAW/HT TEST NO. 158
 REL LENGTH(FT) PT(PSI) TT(DEG R) HT(BTU/LBM) RS(FT) HAW/HT RUN NO. 78
 7.872E 05 2.3516E 06 3.0 3.0 1.27E 03 1.2916E 06 5.3046 1.0000 1.0000 1.0000
 5.1E 01 7.872E 05 2.3516E 06 3.0 3.0 1.27E 03 1.2916E 06 5.3046 1.0000 1.0000 1.0000
 CONSTANT SET 553

CHAN	T/C	H/HT	Q/QS	H/MS(0.907)	H/MS(0.874)	CHAN	T/C	H/HT	C/C	H/MS(1.000)	H/MS(0.907)	H/MS(0.874)
1	201	0.267	-0.000	-0.000	-0.000	6	206	0.265	-0.000	-0.000	-0.000	-0.000
2	202	0.263	-0.000	-0.000	-0.000	7	207	0.265	0.000	0.000	0.000	0.000
3	203	0.264	-0.000	-0.000	-0.000	8	208	0.265	0.000	0.000	0.000	0.000
4	204	0.264	-0.000	-0.000	-0.000	9	209	0.265	0.000	0.000	0.000	0.000
5	205	0.264	-0.000	-0.000	-0.000	10	210	0.265	0.000	0.000	0.000	0.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AEROSOL RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 3.5827 06 3.3616E 06 3.714 8.15 TT(DEC K) HT(JOULE/KG) PTA(M) SIM(METER) PAN/HT TEST NO. 158
 4ACH 7.8727E 3.3616E 06 3.714 8.15 TT(DEC R) HT(BTU/LBM) RS(FT) PAN/HT PUA NO. 78
 5.10 7.8727E 3.3616E 06 3.714 8.15 TT(DEC R) HT(BTU/LBM) RS(FT) PAN/HT PUA NO. 78

CHAN	T/C	TM(DEC K)	TM(DEC R)	QIN/GA2)	Q(HT/FT.-SEC)	Q(SIM/CM2)	Q(SIB./U/FT.-SEC)	ST(10.-907)	ST(10.-974)	TIME(SEC)
1	201	313.6	559.1	-0.000	-0.000	12.907	9.611	-0.000E-39	-0.000E-39	2.269
2	202	312.1	561.8	-0.000	-0.000	12.867	9.593	-0.000E-39	-0.000E-39	0.939
3	203	313.3	563.4	-0.000	-0.000	12.875	9.582	-0.000E-39	-0.000E-39	0.496
4	204	313.4	564.2	-0.000	-0.000	12.869	9.577	-0.000E-39	-0.000E-39	0.154
5	205	313.6	564.5	-0.000	-0.000	12.867	9.575	-0.000E-39	-0.000E-39	-0.311
6	206	314.2	565.5	-0.000	-0.000	12.860	9.569	-0.000E-39	-0.000E-39	-0.457
7	207	314.1	565.5	-0.000	-0.000	12.852	9.561	-0.000E-39	-0.000E-39	-0.336
8	208	314.8	566.6	-0.000	-0.000	12.852	9.560	-0.000E-39	-0.000E-39	0.073
9	209	314.9	566.8	-0.000	-0.000	12.851	9.560	-0.000E-39	-0.000E-39	1.068
10	210	314.6	566.3	-0.000	-0.000	12.851	9.561	-0.000E-39	-0.000E-39	0.058

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.1150E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AREA RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA ***

MACH	RE/METER	R/L	LENGTH(METER)	PT(ATP)	TT(DEC K)	HT(LGULE/KG)	PS(METER)	HAW/HT	TEST NO.		
5.11	0.5495E 06	1.3313E 06	0.924	8.45	1.3607	4.2016E 06	0.348	1.000	158		
MACH	KE/FT	REL	LENGTH(FT)	PT(PST)	TT(DEC R)	HT(FTU/LBM)	RS(AFT)	HAW/HT	RLN NO.		
5.23	7.7709E 05	2.3313E 06	3.000	19.84	1.4446	516.75	1.0000	1.0000	78		
CHAN	T/C	H/HS(1.00)	H/HS(1.937)	H/HS(1.874)	CHAN	T/C	H/HT	U/GS	F/HS(1.00)	F/HS(0.907)	H/HS(0.874)
1	301	0.263	0.0874	0.0969	36	226	0.263	0.0000	-0.0000	-0.0000	-0.0000
2	302	0.263	0.0761	0.0871	37	227	0.262	0.0000	-0.0000	-0.0000	-0.0000
3	303	0.261	0.0750	0.0858	38	228	0.261	0.0000	-0.0000	-0.0000	-0.0000
4	304	0.264	0.0684	0.0783	39	229	0.261	0.0000	-0.0000	-0.0000	-0.0000
5	305	0.262	0.0700	0.0801	40	230	0.260	0.0000	-0.0000	-0.0000	-0.0000
6	306	0.262	0.0533	0.0609	41	231	0.260	0.0000	-0.0000	-0.0000	-0.0000
7	307	0.262	0.0513	0.0587	42	232	0.260	0.0000	-0.0000	-0.0000	-0.0000
8	308	0.262	0.0475	0.0544	43	233	0.261	0.0000	-0.0000	-0.0000	-0.0000
9	309	0.262	0.0474	0.0542	44	234	0.261	0.0000	-0.0000	-0.0000	-0.0000
10	310	0.262	0.0490	0.0561	45	235	0.261	0.0000	-0.0000	-0.0000	-0.0000
11	311	0.262	0.0662	0.0757	46	236	0.262	0.0000	-0.0000	-0.0000	-0.0000
12	312	0.262	0.0675	0.0772	47	237	0.263	0.0000	-0.0000	-0.0000	-0.0000
13	313	0.262	0.0621	0.0711	48	238	0.263	0.0000	-0.0000	-0.0000	-0.0000
14	314	0.262	0.0569	0.0651	49	239	0.263	0.0000	-0.0000	-0.0000	-0.0000
15	315	0.262	0.0593	0.0679	50	240	0.264	0.0000	-0.0000	-0.0000	-0.0000
16	316	0.262	0.0542	0.0621	51	241	0.263	0.0000	-0.0000	-0.0000	-0.0000
17	317	0.262	0.0523	0.0599	52	242	0.264	0.0000	-0.0000	-0.0000	-0.0000
18	318	0.262	0.0505	0.0578	53	243	0.263	0.0000	-0.0000	-0.0000	-0.0000
19	319	0.262	0.0511	0.0584	54	244	0.264	0.0000	-0.0000	-0.0000	-0.0000
20	221	0.263	-0.0000	-0.0000	55	245	0.263	0.0000	-0.0000	-0.0000	-0.0000
21	222	0.263	-0.0000	-0.0000	56	246	0.263	0.0000	-0.0000	-0.0000	-0.0000
22	223	0.264	-0.0000	-0.0000	57	247	0.263	0.0000	-0.0000	-0.0000	-0.0000
23	224	0.264	-0.0000	-0.0000	58	248	0.263	0.0000	-0.0000	-0.0000	-0.0000
24	225	0.263	-0.0000	-0.0000	59	249	0.263	0.0000	-0.0000	-0.0000	-0.0000
25	225	0.263	-0.0000	-0.0000	60	250	0.263	0.0000	-0.0000	-0.0000	-0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - JAMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.1C 2.5495E C6 2.3313E C6 1.914 8.15 1.204E C6 1.374E
 MACH 5.1C 1.7769E C6 2.3313E C6 1.914 8.15 1.204E C6 1.374E
 TEST NO. 158
 RUN NO. 78

CHAN	T/C	T(DEC.K)	T(DEC.R)	Q(W/CM2)	Q(MBTU/FT2-SEC)	Q(SI(W/CM2))	Q(SI(BTU/FT2-SEC))	ST(L/907)	ST(10.874)	TIME(SEC)
1	302	313.9	565.0	0.578	9.678	10.987	3.4513E-04	3.6375E-04	0.330	
2	302	314.1	565.3	0.577	9.679	10.985	3.4444E-04	3.6375E-04	0.312	
3	303	313.8	563.1	0.577	9.679	10.985	3.2234E-04	3.3941E-04	0.303	
4	304	313.9	565.1	0.578	9.679	10.987	2.9785E-04	3.0975E-04	0.342	
5	305	313.4	564.2	0.579	9.686	10.993	2.6773E-04	2.8169E-04	0.274	
6	306	313.7	563.7	0.578	9.686	10.992	2.4773E-04	2.4104E-04	0.151	
7	307	313.5	564.5	0.577	9.686	10.992	2.3223E-04	2.3215E-04	0.130	
8	308	313.0	563.4	0.575	9.681	10.989	2.1403E-04	2.1503E-04	0.101	
9	309	313.2	563.9	0.575	9.688	10.995	2.1235E-04	2.1450E-04	0.102	
10	310	313.1	563.9	0.575	9.688	10.995	2.1038E-04	2.1273E-04	0.112	
11	311	313.3	563.6	0.575	9.688	10.995	2.0416E-04	2.0944E-04	0.230	
12	312	313.9	565.0	0.574	9.681	10.987	2.8576E-04	3.0539E-04	0.232	
13	313	313.2	563.8	0.575	9.689	10.996	2.673E-04	2.8111E-04	0.207	
14	314	313.6	564.4	0.575	9.685	10.992	2.4416E-04	2.5732E-04	0.178	
15	315	313.5	564.4	0.575	9.685	10.992	2.3482E-04	2.4857E-04	0.194	
16	316	313.6	564.5	0.577	9.697	10.999	2.3304E-04	2.4531E-04	0.139	
17	317	313.9	565.0	0.575	9.681	10.987	2.1462E-04	2.2674E-04	0.139	
18	318	313.7	564.7	0.575	9.689	10.996	2.1699E-04	2.2870E-04	0.134	
19	319	313.4	564.2	0.571	9.685	10.993	2.1926E-04	2.3109E-04	0.138	
20	221	314.8	566.6	0.570	9.670	10.975	0.0000E-39	0.0000E-39	0.000	
21	222	316.7	570.1	0.570	9.648	10.949	0.0000E-39	0.0000E-39	0.132	
22	223	316.0	568.7	0.570	9.657	10.960	0.0000E-39	0.0000E-39	0.016	
23	224	315.7	568.2	0.570	9.660	10.963	0.0000E-39	0.0000E-39	0.144	
24	225	314.7	566.5	0.570	9.672	10.976	0.0000E-39	0.0000E-39	0.482	
25	226	314.2	565.6	0.570	9.677	10.982	0.0000E-39	0.0000E-39	0.386	
26	227	313.0	563.4	0.570	9.692	10.999	0.0000E-39	0.0000E-39	0.616	
27	228	312.4	562.3	0.570	9.699	11.007	0.0000E-39	0.0000E-39	0.450	
28	229	311.7	561.0	0.570	9.707	11.016	0.0000E-39	0.0000E-39	0.483	
29	230	311.0	559.8	0.570	9.715	11.026	0.0000E-39	0.0000E-39	0.687	
30	231	310.9	559.7	0.570	9.716	11.026	0.0000E-39	0.0000E-39	0.026	
31	232	311.6	560.9	0.570	9.708	11.018	0.0000E-39	0.0000E-39	0.284	
32	233	311.0	561.5	0.570	9.704	11.013	0.0000E-39	0.0000E-39	0.079	
33	234	312.3	562.2	0.570	9.699	11.008	0.0000E-39	0.0000E-39	0.019	
34	235	312.7	562.9	0.570	9.695	11.003	0.0000E-39	0.0000E-39	0.878	
35	236	313.2	563.7	0.570	9.689	10.996	0.0000E-39	0.0000E-39	0.684	
36	237	314.1	565.4	0.570	9.678	10.984	0.0000E-39	0.0000E-39	0.494	
37	238	314.6	566.4	0.570	9.672	10.977	0.0000E-39	0.0000E-39	0.096	
38	239	314.3	565.8	0.570	9.681	10.981	0.0000E-39	0.0000E-39	0.077	
39	240	314.3	565.8	0.570	9.684	10.984	0.0000E-39	0.0000E-39	0.192	
40	241	314.5	566.2	0.570	9.673	10.978	0.0000E-39	0.0000E-39	0.081	
41	242	315.4	567.7	0.570	9.664	10.968	0.0000E-39	0.0000E-39	0.155	
42	243	315.0	567.1	0.570	9.668	10.972	0.0000E-39	0.0000E-39	0.159	
43	244	315.6	568.0	0.570	9.662	10.965	0.0000E-39	0.0000E-39	0.145	
44	245	315.0	567.1	0.570	9.662	10.965	0.0000E-39	0.0000E-39	0.153	
45	246	314.9	566.6	0.570	9.669	10.974	0.0000E-39	0.0000E-39	0.145	
46	247	314.7	566.5	0.570	9.672	10.976	0.0000E-39	0.0000E-39	0.134	
47	248	314.3	565.8	0.570	9.676	10.981	0.0000E-39	0.0000E-39	0.132	
48	249	314.5	566.0	0.570	9.678	10.981	0.0000E-39	0.0000E-39	0.114	
49	250	314.1	565.4	0.570	9.678	10.984	0.0000E-39	0.0000E-39	0.114	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 0.008E-1 (SLUGS/FT2-SEC)

PROF. NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***												
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(D.G.K)	HT(JGULE/KG)	RS(METER)	H/W/HT	TEST NO.	L58			
541	2.4762E 06	2.2642E 05	8.13	1155.7	1.2246E 16	2.3348	1.00	78				
REL	RE/FT	REL LENGTH(FT)	PT(PST)	TT(D.G.K)	HT(8TU/LRM)	RS(FT)	H/W/HT					
541	7.5475E 05	2.2642E 05	119.84	278.42	526.51	1.0000	1.0000					
CHAN	T/C	Q/US	H/HS(1.000)	H/HS(0.917)	H/HS(0.874)	CHAN	T/C	H/W/HT	C/LS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
61	276	0.0000	0.0000	0.0000	0.0000	69	284	0.262	-0.0000	-0.0000	-0.0000	-0.0000
52	277	0.0000	0.0000	0.0000	0.0000	70	285	0.263	-0.0000	-0.0000	-0.0000	-0.0000
53	278	0.0000	0.0000	0.0000	0.0000	71	286	0.263	-0.0000	-0.0000	-0.0000	-0.0000
54	279	0.0000	0.0000	0.0000	0.0000	72	287	0.263	-0.0000	-0.0000	-0.0000	-0.0000
55	280	0.0000	0.0000	0.0000	0.0000	73	288	0.264	-0.0000	-0.0000	-0.0000	-0.0000
56	281	0.0000	0.0000	0.0000	0.0000	74	289	0.265	-0.0000	-0.0000	-0.0000	-0.0000
57	282	0.0000	0.0000	0.0000	0.0000	75	290	0.264	-0.0000	-0.0000	-0.0000	-0.0000
58	283	0.0000	0.0000	0.0000	0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION JAMES RESEARCH CENTER MCFFETT FIELD CALIF. PRELIMINARY DATA

CHAN	T/C	TM(DEC K)	TM(DEC R)	GM(CM/GM2)	Q(BTU/FT2-SEC)	QS(IN/CM2)	QS(BTU/FT2-SEC)	STIC(907)	STIC(674)	TIME(SEC)
61	276	313.5	564.4	1.000	0.000	11.274	9.934	0.0000E-39	0.0000E-39	0.552
62	277	313.8	564.8	0.000	0.000	11.270	9.931	0.0000E-39	0.0000E-39	-0.771
63	278	314.2	565.7	-0.000	-0.000	11.264	9.925	-0.0000E-39	-0.0000E-39	0.590
64	279	315.2	567.4	-0.000	-0.000	11.252	9.914	-0.0000E-39	-0.0000E-39	0.658
65	280	312.2	561.9	-0.000	-0.000	11.292	9.950	-0.0000E-39	-0.0000E-39	0.467
66	281	316.5	569.7	-0.000	-0.000	11.235	9.899	-0.0000E-39	-0.0000E-39	-0.374
67	282	317.4	571.4	-0.000	-0.000	11.222	9.888	-0.0000E-39	-0.0000E-39	-0.326
68	282	318.5	573.3	-0.000	-0.000	11.208	9.876	-0.0000E-39	-0.0000E-39	-0.003
69	284	319.1	574.4	-0.000	-0.000	11.200	9.869	-0.0000E-39	-0.0000E-39	-0.018
70	285	320.1	576.2	-0.000	-0.000	11.186	9.857	-0.0000E-39	-0.0000E-39	-0.038
71	286	320.4	576.7	-0.000	-0.000	11.183	9.854	-0.0000E-39	-0.0000E-39	-0.031
72	287	321.0	577.7	-0.000	-0.000	11.171	9.847	-0.0000E-39	-0.0000E-39	-0.080
73	288	322.2	580.3	-0.000	-0.000	11.159	9.832	-0.0000E-39	-0.0000E-39	-0.080
74	289	323.1	581.6	-0.000	-0.000	11.146	9.822	-0.0000E-39	-0.0000E-39	-0.116
75	290	322.0	579.7	-0.000	-0.000	11.161	9.834	-0.0000E-39	-0.0000E-39	-0.180

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.0754E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

MACH 5.10
MACH 5.10

REL 2.2642E 06
REL 2.2642E 06

RE/METER 5.14
RE/FT 5.14

PI(ATM) 9.15
PI(PSI) 119.84

TI(DEC K) 1155.7
TI(DEC R) 208.52

HT(JCULE/KG) 1.2246E 06
HT(BTU/LBM) 526.61

PS(METER) 1.3048
PS(FT) 1.0000

HAM/HT 1.000
HAM/HT 1.000

TEST NO. 158
RUN NO. 7R

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 7.8720E 05 2.3616E 06 3.000 H/HS(0.907) H/HS(0.874) H/HS(1.000) H/HS(0.907) H/HS(0.874)
 REL LENGTH(METER) 0.914 8.15 1127.3 1.1916E 06 0.3048 HAW/HT 1.000
 REL LENGTH(FT) 3.000 119.84 2029.2 512.41 1.0000 HAW/HT CONSTANT SET 354
 MACH 5.10 2.3616E 06 0.914 8.15 1127.3 1.1916E 06 0.3048 HAW/HT 1.000
 REL LENGTH(FT) 3.000 119.84 2029.2 512.41 1.0000 HAW/HT 1.000

CHAN	T/C	H/HT	Q/QS	H/P-S(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/HT	C/QS	F/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.262	0.0009	0.0009	0.0010	0.0011	6	206	0.265	0.0352	0.0352	0.0403	0.0425
2	202	0.263	0.0052	0.0052	0.0059	0.0062	7	207	0.265	0.0419	0.0419	0.0480	0.0506
3	203	0.264	0.0216	0.0218	0.0249	0.0263	8	208	0.265	0.0519	0.0519	0.0594	0.0627
4	204	0.264	0.0253	0.0253	0.0290	0.0305	9	209	0.265	0.0508	0.0508	0.0582	0.0613
5	205	0.264	0.0325	0.0325	0.0371	0.0392	10	210	0.265	0.0461	0.0461	0.0528	0.0557

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION										RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***					
MACH	REL	RE/METER	REL	LENGTH(METER)	PT(ATM)	T(DEG K)	HT(JOULE/KG)	RS(METER)	FAM/HT	TEST NO.	RS(METER)	HT(JOULE/KG)	RS(METER)	FAM/HT	TEST NO.
5.10	2.3616E 06	2.3616E 06	0.914	8.15	1127.3	2.1916E 06	C.3048	1.000	1.000	158	1.000	1.000	1.000	78	
5.10	7.8720E 05	2.3616E 06	3.000	119.84	2029.2	512.41	1.0000	1.0000	1.000		1.0000	1.0000	1.000		
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	GS(W/CF2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)					
1	201	310.6	559.1	0.710	0.009	10.907	9.610	3.908E-06	4.1187E-06	2.255					
2	202	312.1	561.8	0.050	0.050	10.887	9.593	2.2043E-C5	2.3234E-05	0.935					
3	203	313.C	563.4	0.237	C.209	10.875	9.582	9.308E-05	9.8039E-05	0.496					
4	204	313.6	564.2	0.275	0.242	10.869	9.577	1.0812E-04	1.1397E-04	0.154					
5	205	313.6	564.5	0.353	0.311	10.867	9.575	1.3861E-04	1.4611E-04	-0.312					
6	206	314.2	565.5	0.383	0.337	10.860	9.569	1.5051E-04	1.5866E-04	-0.458					
7	207	314.1	565.5	0.455	0.401	10.860	9.569	1.7913E-04	1.8883E-04	-0.337					
8	208	314.8	566.6	0.563	0.496	10.852	9.562	2.2177E-04	2.3380E-04	0.033					
9	209	314.9	566.8	0.551	0.486	10.850	9.560	2.1699E-04	2.2876E-04	0.056					
10	210	314.6	566.3	0.501	0.441	10.854	9.563	1.9704E-04	2.0772E-04	0.047					

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1160E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER McFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
MACH 5.10 2.5495E 06 2.3313E 06 REL LENGTH(METER) PT(ATM) 8.15 TT(DEG K) HT(JCULE/KG) RS(METER) HAW/HT 1.000 RUN NO. 78
MACH 5.10 7.7709E 06 2.3313E 06 REL LENGTH(FT) PT(PST) 119.84 TT(DEG R) FT(FTU/LBM) RS(FT) HAM/HT 1.000

CHAN	T/C	HW/HT	Q/QS	H/H(S(1.000))	H/H(S(0.907))	M/F(S(C.874))	CHAN	T/C	HW/HT	C/C(S)	H/H(S(1.000))	H/H(S(0.907))	H/H(S(0.874))
11	301	0.262	-0.0000	-0.0000	-0.0000	-0.0000	36	226	0.263	0.0029	0.0029	0.0033	0.0035
12	302	0.263	-0.0000	-0.0000	-0.0000	-0.0000	37	227	0.262	0.0006	0.0006	0.0007	0.0007
13	303	0.261	-0.0000	-0.0000	-0.0000	-0.0000	38	228	0.261	-0.0003	-0.0003	-0.0003	-0.0003
14	304	0.262	-0.0000	-0.0000	-0.0000	-0.0000	39	229	0.261	-0.0007	-0.0007	-0.0008	-0.0009
15	305	0.262	-0.0000	-0.0000	-0.0000	-0.0000	40	230	0.260	-0.0016	-0.0016	-0.0018	-0.0019
16	306	0.262	-0.0000	-0.0000	-0.0000	-0.0000	41	231	0.260	-0.0010	-0.0010	-0.0011	-0.0012
17	307	0.262	-0.0000	-0.0000	-0.0000	-0.0000	42	232	0.260	-0.0007	-0.0007	-0.0008	-0.0009
18	308	0.262	-0.0000	-0.0000	-0.0000	-0.0000	43	233	0.261	-0.0008	-0.0008	-0.0009	-0.0010
19	309	0.262	-0.0000	-0.0000	-0.0000	-0.0000	44	234	0.261	-0.0007	-0.0007	-0.0008	-0.0009
20	310	0.262	-0.0000	-0.0000	-0.0000	-0.0000	45	235	0.261	-0.0005	-0.0005	-0.0006	-0.0006
21	311	0.262	-0.0000	-0.0000	-0.0000	-0.0000	46	236	0.262	0.0005	0.0005	0.0006	0.0006
22	312	0.262	-0.0000	-0.0000	-0.0000	-0.0000	47	237	0.263	0.0048	0.0048	0.0055	0.0058
23	313	0.262	-0.0000	-0.0000	-0.0000	-0.0000	48	238	0.263	0.0211	0.0211	0.0241	0.0255
24	314	0.262	-0.0000	-0.0000	-0.0000	-0.0000	49	239	0.263	0.0329	0.0329	0.0376	0.0396
25	315	0.262	-0.0000	-0.0000	-0.0000	-0.0000	50	240	0.264	0.0363	0.0363	0.0416	0.0438
26	316	0.262	-0.0000	-0.0000	-0.0000	-0.0000	51	241	0.263	0.0478	0.0478	0.0547	0.0577
27	317	0.262	-0.0000	-0.0000	-0.0000	-0.0000	52	242	0.264	0.0513	0.0513	0.0588	0.0619
28	318	0.262	-0.0000	-0.0000	-0.0000	-0.0000	53	243	0.263	0.0534	0.0534	0.0611	0.0644
29	319	0.262	-0.0000	-0.0000	-0.0000	-0.0000	54	244	0.264	0.0515	0.0515	0.0589	0.0621
30	221	0.263	0.0507	0.0507	0.0507	0.0507	55	245	0.263	0.0494	0.0494	0.0565	0.0596
31	222	0.265	0.0511	0.0511	0.0511	0.0511	56	246	0.263	0.0464	0.0464	0.0530	0.0559
32	223	0.264	0.0395	0.0395	0.0395	0.0395	57	247	0.263	0.0524	0.0524	0.0600	0.0633
33	224	0.264	0.0292	0.0292	0.0292	0.0292	58	248	0.263	0.0492	0.0492	0.0563	0.0593
34	225	0.263	0.0125	0.0125	0.0125	0.0125	59	249	0.263	0.0495	0.0495	0.0566	0.0597
35							60	250	0.263	0.0516	0.0516	0.0590	0.0622

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 2.5495E 06 2.3313E 06 8.15 11.6.C 1.2016E 06 5.3048 1.000 HAM/HT 158 TEST NO. 78

MACH 5.10 7.7709E 05 2.3313E 06 119.84 2044.2 516.73 1.0000 1.0000 HAM/HT 158 TEST NO. 78

CHAN	T/C	TM(DEG K)	REL TW(DEG R)	Q(M/CM2)	Q(BTU/FT2-SEC)	SS(W/CM2)	CS(BTU/FT2-SEC)	HT(JUULE/KG)	RS(METER)	HT(M/HT)	RS(METER)	HT(M/HT)	TIME(SEC)
11	301	313.9	565.0	-0.300	-0.000	10.997	9.681	-0.000E-39	-0.000E-39	0.320	-0.000E-39	0.320	0.311
12	302	314.1	565.3	-0.300	-0.000	10.996	9.679	-0.000E-39	-0.000E-39	0.311	-0.000E-39	0.311	0.302
13	303	312.8	563.8	-0.300	-0.000	11.001	9.693	-0.000E-39	-0.000E-39	0.302	-0.000E-39	0.302	0.342
14	304	313.9	565.1	-0.300	-0.000	10.987	9.681	-0.000E-39	-0.000E-39	0.274	-0.000E-39	0.274	0.150
15	305	313.4	564.2	-0.300	-0.000	10.993	9.686	-0.000E-39	-0.000E-39	0.130	-0.000E-39	0.130	0.101
16	306	313.2	563.7	-0.300	-0.000	10.997	9.690	-0.000E-39	-0.000E-39	0.101	-0.000E-39	0.101	0.112
17	307	313.5	564.3	-0.300	-0.000	10.992	9.686	-0.000E-39	-0.000E-39	0.230	-0.000E-39	0.230	0.207
18	308	313.0	562.4	-0.300	-0.000	10.999	9.692	-0.000E-39	-0.000E-39	0.178	-0.000E-39	0.178	0.193
19	309	313.3	563.9	-0.300	-0.000	10.995	9.688	-0.000E-39	-0.000E-39	0.138	-0.000E-39	0.138	0.133
20	310	313.1	563.6	-0.300	-0.000	10.998	9.690	-0.000E-39	-0.000E-39	0.138	-0.000E-39	0.138	0.138
21	311	313.3	565.0	-0.300	-0.000	10.987	9.681	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
22	312	313.9	563.8	-0.300	-0.000	10.996	9.689	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
23	313	313.2	563.8	-0.300	-0.000	10.992	9.685	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
24	314	313.6	564.4	-0.300	-0.000	10.995	9.684	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
25	315	313.5	564.4	-0.300	-0.000	10.991	9.684	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
26	316	313.6	564.5	-0.300	-0.000	10.991	9.684	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
27	317	313.9	565.0	-0.300	-0.000	10.987	9.681	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
28	318	313.7	564.7	-0.300	-0.000	10.989	9.683	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
29	319	313.4	564.2	-0.300	-0.000	10.993	9.686	-0.000E-39	-0.000E-39	0.110	-0.000E-39	0.110	0.110
30	221	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	*****	0.000
31	221	314.8	566.6	-0.557	-0.490	10.975	9.670	-0.000E-39	-0.000E-39	0.062	-0.000E-39	0.062	0.062
32	222	316.7	570.1	-0.559	-0.493	10.949	9.648	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
33	223	316.0	568.7	-0.433	-0.382	10.960	9.657	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
34	224	315.7	568.2	-0.320	-0.282	10.963	9.660	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
35	225	314.7	566.5	-0.232	-0.121	10.976	9.672	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
36	226	314.2	565.6	-0.232	-0.028	10.983	9.677	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
37	227	313.0	563.4	-0.007	-0.006	11.007	9.699	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
38	228	312.4	562.3	-0.007	-0.007	11.007	9.699	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
39	229	311.7	561.0	-0.008	-0.007	11.016	9.715	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
40	230	313.0	559.8	-0.011	-0.015	11.026	9.716	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
41	231	310.9	559.7	-0.011	-0.010	11.018	9.708	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
42	232	311.6	560.9	-0.009	-0.008	11.013	9.704	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
43	233	312.0	561.5	-0.009	-0.007	11.013	9.704	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
44	234	312.3	562.2	-0.008	-0.005	11.003	9.699	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
45	235	312.7	562.9	-0.006	-0.005	10.996	9.699	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
46	236	313.2	563.7	-0.006	-0.005	10.994	9.678	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
47	237	314.1	565.4	-0.005	-0.004	10.977	9.672	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
48	238	314.5	566.4	-0.004	-0.004	10.981	9.676	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
49	239	314.3	565.8	-0.003	-0.003	10.978	9.673	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
50	240	315.3	567.6	-0.003	-0.003	10.977	9.672	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
51	241	314.5	566.2	-0.003	-0.003	10.972	9.668	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
52	242	315.4	567.7	-0.003	-0.003	10.965	9.662	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
53	243	315.0	567.1	-0.003	-0.003	10.972	9.668	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
54	244	315.6	568.0	-0.003	-0.003	10.972	9.668	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
55	245	315.0	567.1	-0.003	-0.003	10.974	9.669	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
56	246	314.9	566.8	-0.003	-0.003	10.974	9.672	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
57	247	314.7	566.5	-0.003	-0.003	10.974	9.672	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
58	248	314.3	565.8	-0.003	-0.003	10.981	9.676	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
59	249	314.5	566.0	-0.003	-0.003	10.984	9.678	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016
60	250	314.1	565.6	-0.003	-0.003	10.984	9.678	-0.000E-39	-0.000E-39	0.016	-0.000E-39	0.016	0.016

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1038E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MC PFEIFFER FIELD CALIF. *** PRELIMINARY DATA ***									
MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RST(METER)	PAW/HT	TEST NO.
5.10	2.4762E 06	2.2642E 06	0.914	8.15	1155.7	1.2246E 06	0.3048	1.000	158
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	7.5475E 05	2.2642E 06	3.000	119.84	2083.3	526.61	1.0000	1.000	78

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/FS(0.907)	H/FS(0.874)	CHAN	T/C	HW/HT	C/C5	H/HS(1.000)	H/FS(0.907)	H/FS(0.874)
61	276	0.257	-0.0004	-0.0004	-0.0004	-0.0005	69	284	0.262	0.0475	0.0475	0.0544	0.0573
62	277	0.257	-0.0001	-0.0001	-0.0001	-0.0002	70	285	0.263	0.0478	0.0478	0.0547	0.0577
63	278	0.258	0.0005	0.0005	0.0006	0.0006	71	286	0.263	0.0446	0.0446	0.0511	0.0538
64	279	0.259	0.0031	0.0031	0.0035	0.0037	72	287	0.263	0.0445	0.0445	0.0510	0.0537
65	280	0.256	0.0180	0.0180	0.0206	0.0217	73	288	0.264	0.0418	0.0418	0.0479	0.0505
66	281	0.260	0.0309	0.0309	0.0353	0.0372	74	289	0.265	0.0459	0.0459	0.0526	0.0554
67	282	0.260	0.0426	0.0426	0.0499	0.0526	75	290	0.264	0.0443	0.0443	0.0507	0.0534
68	283	0.261	0.0497	0.0497	0.0568	0.0599							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TI(DEC K)	HT(JCULE/KG)	RS(METER)	HAW/HT	TEST NO.	15R	
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TI(DEC R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.	78	
5.10	2.4762E 06	2.2642E 06	0.914	1155.7	1.2246E 06	0.3048	1.000			
5.10	7.5475E 05	2.2642E 06	3.700	2080.3	526.61	1.0000	1.000			
CHAN	T/C	TM(DEC K)	TM(DEC R)	C(LW/GM2)	Q(BTL/FT2-SEC)	QS(W/GM2)	QS(BTU/FT2-SEC)	ST(C NOT)	STIO(874)	TIME(SEC)
61	276	313.5	564.4	-0.004	-0.004	11.274	9.934	-1.7012E-06	-1.7922E-06	0.552
62	277	313.8	564.8	-0.001	-0.001	11.270	9.931	-5.6629E-07	-5.8660E-07	-0.771
63	278	314.3	565.7	0.005	0.005	11.264	9.925	2.0974E-06	2.2097E-06	0.590
64	279	315.2	567.4	0.035	0.030	11.252	9.914	1.3367E-05	1.4084E-05	0.657
65	280	312.2	561.9	0.203	0.179	11.292	9.950	7.8235E-03	8.2413E-03	0.467
66	281	316.5	569.7	0.347	0.305	11.235	9.899	1.3409E-04	1.4129E-04	-0.379
67	282	317.4	571.4	0.489	0.431	11.222	9.888	1.8958E-04	1.9978E-04	-0.327
68	283	318.5	573.3	0.557	0.490	11.208	9.876	2.1584E-04	2.2747E-04	-0.304
69	284	319.1	574.4	0.532	0.469	11.200	9.862	2.0667E-04	2.1781E-04	-0.018
70	285	320.1	576.2	0.499	0.472	11.186	9.857	2.0799E-04	2.1921E-04	-0.038
71	286	320.4	576.7	0.498	0.440	11.183	9.854	1.9396E-04	2.0443E-04	-0.031
72	287	321.0	577.7	0.467	0.438	11.175	9.847	1.9367E-04	2.0413E-04	-0.080
73	288	322.2	580.0	0.512	0.411	11.159	9.832	1.8187E-04	1.9171E-04	-0.080
74	289	323.1	581.6	0.494	0.451	11.146	9.822	1.9976E-04	2.1059E-04	-0.117
75	290	322.0	579.7	0.494	0.435	11.141	9.834	1.9255E-04	2.0297E-04	-0.180

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.0764E-01 SLUGS/FT2-SEC

PROBE NO. = 3

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NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.6757E 06 4.2754E 06 3.0000 212.27 2003.1 505.19 1.0000 1.0000 1.0000
 RE/METER REL LENGTH(METER) P(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) HAM/HT TEST NO. 158
 4.6757E 06 4.2754E 06 0.914 1112.6 1.1748E 08 0.3048 1.0000 1.0000 1.0000
 MACH 5.10 1.4251E 05 4.2754E 06 3.0000 212.27 2003.1 505.19 1.0000 1.0000 1.0000
 RE/FT REL LENGTH(FT) PI(PSI) TT(DEG R) HT(HTU/LBM) RS(FT) HAM/HT CONSTANT SET 553

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(1.907)	H/HS(0.874)	CHAN	T/C	HW/HT	G/GS	H/HS(1.000)	H/HS(1.907)	H/HS(0.874)
1	201	0.266	-0.0000	-0.0000	-0.0000	-0.0000	6	206	0.271	-0.0000	-0.0000	-0.0000	-0.0000
2	202	0.268	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.271	0.0000	0.0000	0.0000	0.0000
3	203	0.269	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.272	0.0000	0.0000	0.0000	0.0000
4	204	0.270	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.272	0.0000	0.0000	0.0000	0.0000
5	205	0.270	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.272	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD (CALIF.) PRELIMINARY DATA ***

MACH	RE/RYEYER	REC LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JOULE/KG)	RS(METER)	FAP/HT	TEST NO.
5.10	4.6757E 06	4.2754E 06	14.44	1112.8	1.1748E 06	0.3048	1.000	158
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEC R)	HT(LTU/LSH)	RS(FT)	HA/WHT	RUN NO.
5.10	1.4251E 06	4.2754E 06	212.27	2003.1	3053.9	100000	1.807	79

CHAN	I/C	TM(DEC K)	TM(DEC R)	QLW(CM2)	Q(8TU/FT2-SEC)	QS(W/CM2)	QS(8TU/FT2-SEC)	ST(0.874)	TIME(SEC)
1	201	311.2	560.1	-0.100	-0.000	14.230	12.539	-0.000E-39	1.347
2	202	313.6	564.5	-0.100	-0.000	14.187	12.501	-0.000E-39	0.966
3	203	315.0	567.1	-0.100	-0.000	14.162	12.479	-0.000E-39	0.641
4	204	315.6	568.1	-0.100	-0.000	14.151	12.467	-0.000E-39	0.381
5	205	316.1	568.9	-0.100	-0.000	14.144	12.462	-0.000E-39	-0.029
6	206	316.9	570.4	-0.100	-0.000	14.129	12.450	-0.000E-39	-0.136
7	207	316.9	570.5	0.100	0.000	14.129	12.449	0.000E-39	-0.052
8	208	317.8	572.0	0.100	0.000	14.113	12.436	0.000E-39	0.225
9	209	318.0	572.3	0.100	0.000	14.110	12.433	0.000E-39	0.272
10	210	317.7	571.8	0.100	0.000	14.115	12.437	0.000E-39	0.276

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7846E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

TEST NO. 158
RUN NO. 79

PRELIMINARY DATA ***
HAW/HT 1.000
RS(METER) 0.3048
RS(LFT) 1.0000

RESEARCH CENTER MOFFETT FIELD CALIF. ***
TT(DEC K) 1.367
TT(DEC K) 2046.1
HI(JOULE/KG) 1.2025E 06
HI(8TU/LBM) 517.39

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES
RE/HTER 4.5111E 06
REL LENGTH 4.1249E 06
REL LENGTH 4.1249E 06
PT(ATM) 14.44
PT(PSI) 212.27

REL LENGTH 3.00
H/HS(1.000) H/HS(0.907) H/HS(0.874)

RE/HTER 4.5111E 06
REL LENGTH 4.1249E 06
REL LENGTH 4.1249E 06
PT(ATM) 14.44
PT(PSI) 212.27

RESEARCH CENTER MOFFETT FIELD CALIF. ***
HAW/HT 1.000
RS(METER) 0.3048
RS(LFT) 1.0000

CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/HT	G/GS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.265	0.0682	0.0781	0.0823	0.0823	36	226	0.265	-0.0000	-0.0000	-0.0000	-0.0000
12	302	0.265	0.0640	0.0733	0.0772	0.0772	37	227	0.263	-0.0000	-0.0000	-0.0000	-0.0000
13	303	0.263	0.0676	0.0774	0.0816	0.0816	38	228	0.263	-0.0000	-0.0000	-0.0000	-0.0000
14	304	0.264	0.0624	0.0715	0.0754	0.0754	39	229	0.262	-0.0000	-0.0000	-0.0000	-0.0000
15	305	0.264	0.0643	0.0736	0.0775	0.0775	40	230	0.261	0.0000	0.0000	0.0000	0.0000
16	306	0.264	0.0513	0.0597	0.0618	0.0618	41	231	0.261	0.0000	0.0000	0.0000	0.0000
17	307	0.264	0.0500	0.0572	0.0603	0.0603	42	232	0.262	0.0000	0.0000	0.0000	0.0000
18	308	0.263	0.0483	0.0553	0.0583	0.0583	43	233	0.262	-0.0000	-0.0000	-0.0000	-0.0000
19	309	0.264	0.0486	0.0556	0.0586	0.0586	44	234	0.262	-0.0000	-0.0000	-0.0000	-0.0000
20	310	0.263	0.0485	0.0556	0.0586	0.0586	45	235	0.263	-0.0000	-0.0000	-0.0000	-0.0000
21	311	0.264	0.0607	0.0695	0.0733	0.0733	46	236	0.263	-0.0000	-0.0000	-0.0000	-0.0000
22	312	0.265	0.0620	0.0710	0.0749	0.0749	47	237	0.265	-0.0000	-0.0000	-0.0000	-0.0000
23	313	0.264	0.0574	0.0657	0.0693	0.0693	48	238	0.265	-0.0000	-0.0000	-0.0000	-0.0000
24	314	0.264	0.0530	0.0607	0.0640	0.0640	49	239	0.265	-0.0000	-0.0000	-0.0000	-0.0000
25	315	0.264	0.0571	0.0653	0.0688	0.0688	50	240	0.266	-0.0000	-0.0000	-0.0000	-0.0000
26	316	0.264	0.0487	0.0557	0.0588	0.0588	51	241	0.265	-0.0000	-0.0000	-0.0000	-0.0000
27	317	0.264	0.0496	0.0568	0.0599	0.0599	52	242	0.266	-0.0000	-0.0000	-0.0000	-0.0000
28	318	0.264	0.0511	0.0585	0.0616	0.0616	53	243	0.265	-0.0000	-0.0000	-0.0000	-0.0000
29	319	0.264	0.0577	0.0661	0.0696	0.0696	54	244	0.266	-0.0000	-0.0000	-0.0000	-0.0000
30	320	0.264	0.0577	0.0661	0.0696	0.0696	55	245	0.266	-0.0000	-0.0000	-0.0000	-0.0000
31	221	0.265	-0.0000	-0.0000	-0.0000	-0.0000	56	246	0.265	-0.0000	-0.0000	-0.0000	-0.0000
32	222	0.267	-0.0000	-0.0000	-0.0000	-0.0000	57	247	0.265	-0.0000	-0.0000	-0.0000	-0.0000
33	223	0.267	-0.0000	-0.0000	-0.0000	-0.0000	58	248	0.265	-0.0000	-0.0000	-0.0000	-0.0000
34	224	0.266	-0.0000	-0.0000	-0.0000	-0.0000	59	249	0.265	-0.0000	-0.0000	-0.0000	-0.0000
35	225	0.265	-0.0000	-0.0000	-0.0000	-0.0000	60	250	0.265	-0.0000	-0.0000	-0.0000	-0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFRETT FIELD CALIF. PRELIMINARY DATA ***

Table with columns: CHAN, I/C, T/IDEG (K), REL, TW(DEC R), U/W(CM2), O(BTU/CM2), OS(W/CM2), QS(BTU/FT2-SEC), ST(U/FT2-SEC), ST(U/CM2), ST(U/CM2), TIME(SEC), TEST NO., RUN NO., HAM/HT, HAM/HT, HAM/HT, HAM/HT.

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7246E-01 (SLUGS/FT2-SF)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 79
 MACH 5.10 RE/HETER 4.3427E 06 REL 3.9710E 06 H/HS(1.000) H/HS(0.907) H/HS(C.874)
 MACH 5.10 RE/ET 2.3237E 06 REL 3.9710E 06 H/HS(1.000) H/HS(0.907) H/HS(C.874)
 PT(ATM) 14.44
 TT(DEG K) 116.05
 HT(FTU/L) 1.2325E 06
 RS(FT) 1.000
 RS(METER) 0.3748
 HAW/HT 1.000
 HAW/HT 1.000

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(C.874)	CHAN	T/C	HW/HT	C/QS	H/HS(1.000)	H/HS(0.907)	H/HS(C.874)
51	276	0.258	0.0000	0.0000	0.0000	0.0000	69	284	0.264	-0.0070	-0.0000	-0.0000	-0.0000
52	277	0.258	-0.0000	-0.0000	-0.0000	-0.0000	70	285	0.265	-0.0000	-0.0000	-0.0000	-0.0000
53	278	0.259	-0.0000	-0.0000	-0.0000	-0.0000	71	286	0.265	-0.0000	-0.0000	-0.0000	-0.0000
54	279	0.260	-0.0000	-0.0000	-0.0000	-0.0000	72	287	0.266	-0.0000	-0.0000	-0.0000	-0.0000
55	280	0.257	-0.0000	-0.0000	-0.0000	-0.0000	73	288	0.267	-0.0000	-0.0000	-0.0000	-0.0000
56	281	0.261	-0.0000	-0.0000	-0.0000	-0.0000	74	289	0.268	-0.0000	-0.0000	-0.0000	-0.0000
57	282	0.262	-0.0000	-0.0000	-0.0000	-0.0000	75	290	0.267	-0.0000	-0.0000	-0.0000	-0.0000
58	283	0.263	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 4.3427E 00 3.9710E 06 3.9710E 06 3.9710E 06 3.9710E 06 3.9710E 06 3.9710E 06 3.9710E 06
 RE/METER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RS(METER) PAM/HT TEST NO. 58
 RE/FT REL LENGTH(FT) PT(PST) TT(DEG K) HT(BTU/LBM) RS(FT) HAM/HT RUN NO. 79

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	SI(12.907)	SI(0.874)	TIME(SEC)
61	276	316.9	573.4	0.000	0.000	15.075	13.283	0.000E-39	0.000E-39	-2.151
62	277	317.2	570.9	-0.000	-0.000	15.069	13.278	-0.000E-39	-0.000E-39	6.050
63	278	317.8	572.0	-0.000	-0.000	15.058	13.268	-0.000E-39	-0.000E-39	0.880
64	279	318.8	573.9	-0.000	-0.000	15.040	13.252	-0.000E-39	-0.000E-39	0.805
65	280	315.8	568.4	-0.000	-0.000	15.094	13.300	-0.000E-39	-0.000E-39	0.609
66	281	320.3	576.5	-0.000	-0.000	15.015	13.230	-0.000E-39	-0.000E-39	-0.272
67	282	321.4	578.6	-0.000	-0.000	14.994	13.212	-0.000E-39	-0.000E-39	-0.210
68	283	322.7	580.9	-0.000	-0.000	14.971	13.191	-0.000E-39	-0.000E-39	0.088
69	284	323.5	582.3	-0.000	-0.000	14.957	13.179	-0.000E-39	-0.000E-39	0.075
70	285	324.8	584.6	-0.000	-0.000	14.935	13.160	-0.000E-39	-0.000E-39	0.057
71	286	325.2	585.4	-0.000	-0.000	14.927	13.151	-0.000E-39	-0.000E-39	0.061
72	287	326.1	586.9	-0.000	-0.000	14.912	13.140	-0.000E-39	-0.000E-39	0.032
73	288	327.8	590.0	-0.000	-0.000	14.882	13.113	-0.000E-39	-0.000E-39	0.048
74	289	329.3	592.7	-0.000	-0.000	14.856	13.090	-0.000E-39	-0.000E-39	0.063
75	290	328.0	590.5	-0.000	-0.000	14.877	13.109	-0.000E-39	-0.000E-39	0.049

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6615E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 REL LENGTH(METER) 4.2754E 06 REL LENGTH(FT) 3.000 F/HS(0.907) F/HS(0.874) H/HS(1.000) H/HS(0.907) H/HS(0.874)

MACH 5.10 RE/FT 1.4251E 06 REL LENGTH(FT) 3.000 F/HS(0.907) F/HS(0.874) H/HS(1.000) H/HS(0.907) H/HS(0.874)

TEST NO. 158
 RUN NO. 79
 CONSTANT SET 554

CHAN	T/C	H/HT	G/QS	H/HS(1.000)	F/HS(0.907)	F/HS(0.874)	CHAN	T/C	H/HT	G/QS	F/HS(1.000)	H/HS(0.907)	H/HS(0.874)
1	201	0.266	0.0027	0.0027	0.0031	0.0033	6	206	0.271	0.0701	0.0701	0.0803	0.0847
2	202	0.268	0.0090	0.0090	0.0103	0.0109	7	207	0.271	0.0819	0.0819	0.0939	0.0991
3	203	0.269	0.0392	0.0392	0.0449	0.0474	8	208	0.272	0.0966	0.0966	0.1107	0.1168
4	204	0.270	0.0480	0.0480	0.0580	0.0580	9	209	0.272	0.0962	0.0962	0.1103	0.1163
5	205	0.270	0.0625	0.0625	0.0716	0.0756	10	210	0.272	0.0921	0.0921	0.1056	0.1114

RS(METER) 0.3048
 RS(FT) 1.0000
 HAW/HT 1.000
 HAW/HT 1.000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***											
MACH	REL RE/METER	REL LENGTH(METER)	REL LENGTH(METER)	REL LENGTH(METER)	REL LENGTH(METER)	REL LENGTH(METER)	REL LENGTH(METER)	REL LENGTH(METER)	REL LENGTH(METER)	TEST NO.	
5.10	4.6757E 06	4.2754E 06	4.2754E 06	4.2754E 06	4.2754E 06	4.2754E 06	4.2754E 06	4.2754E 06	4.2754E 06	158	
MACH	RE/FT	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q18TL/FT2-SEC	Q8(BTU/FT2-SEC)	QS(M/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	
5.10	1.4251E 06	311.2	560.1	0.039	0.034	12.539	14.230	12.539	8.6746E-06	9.1454E-06	
		313.6	564.5	0.128	0.113	12.501	14.187	12.501	2.8706E-05	3.0265E-05	
		315.0	567.1	0.555	0.489	12.479	14.162	12.479	1.2471E-04	1.3152E-04	
		315.6	568.1	0.679	0.598	12.469	14.151	12.469	1.5260E-04	1.6093E-04	
		316.1	568.9	0.884	0.773	12.462	14.144	12.462	1.9890E-04	2.0977E-04	
		316.9	570.4	0.990	0.872	12.450	14.129	12.450	2.2293E-04	2.3513E-04	
		317.8	570.5	1.158	1.020	12.449	14.129	12.449	2.6071E-04	2.7497E-04	
		318.0	572.0	1.363	1.201	12.436	14.113	12.436	3.0726E-04	3.2410E-04	
		317.7	572.3	1.357	1.196	12.433	14.110	12.433	3.0609E-04	3.2286E-04	
		317.7	571.8	1.300	1.145	12.437	14.115	12.437	2.9305E-04	3.0910E-04	
CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q18TL/FT2-SEC	Q8(BTU/FT2-SEC)	QS(M/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	201	311.2	560.1	0.039	0.034	12.539	14.230	12.539	8.6746E-06	9.1454E-06	1.347
2	202	313.6	564.5	0.128	0.113	12.501	14.187	12.501	2.8706E-05	3.0265E-05	0.966
3	203	315.0	567.1	0.555	0.489	12.479	14.162	12.479	1.2471E-04	1.3152E-04	0.641
4	204	315.6	568.1	0.679	0.598	12.469	14.151	12.469	1.5260E-04	1.6093E-04	0.381
5	205	316.1	568.9	0.884	0.773	12.462	14.144	12.462	1.9890E-04	2.0977E-04	-0.029
6	206	316.9	570.4	0.990	0.872	12.450	14.129	12.450	2.2293E-04	2.3513E-04	-0.138
7	207	316.9	570.5	1.158	1.020	12.449	14.129	12.449	2.6071E-04	2.7497E-04	-0.054
8	208	317.8	570.5	1.363	1.201	12.436	14.113	12.436	3.0726E-04	3.2410E-04	0.224
9	209	318.0	572.0	1.357	1.196	12.433	14.110	12.433	3.0609E-04	3.2286E-04	0.271
10	210	317.7	571.8	1.300	1.145	12.437	14.115	12.437	2.9305E-04	3.0910E-04	0.277

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7846E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH		RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	FT(JOULE/KG)	RS(METER)	PAM/HT	TEST NO.	
5.10		4.5111E 06	4.1249E 06	14.44	1136.7	1.2025E 06	0.3048	1.000	158	
MACH		RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBH)	RS(FT)	PAM/HT	RUN NO.	
5.10		1.3750E 05	4.1249E 06	212.27	2046.1	517.09	1.0000	1.000	79	
CHAN	T/C	Q/QS	H/HS(1.000)	F/HS(0.907)	F/HS(0.874)	FW/HT	Q/QS	F/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	-0.0000	-0.0000	-0.0000	-0.0000	0.265	0.0078	0.0090	0.0090	0.0090
12	302	-0.0000	-0.0000	-0.0000	-0.0000	0.263	0.0035	0.0040	0.0040	0.0040
13	303	-0.0000	-0.0000	-0.0000	-0.0000	0.263	0.0022	0.0025	0.0025	0.0025
14	304	-0.0000	-0.0000	-0.0000	-0.0000	0.262	0.0013	0.0015	0.0015	0.0015
15	305	-0.0000	-0.0000	-0.0000	-0.0000	0.261	0.0004	0.0005	0.0005	0.0005
16	306	-0.0000	-0.0000	-0.0000	-0.0000	0.261	-0.0001	-0.0001	-0.0001	-0.0001
17	307	-0.0000	-0.0000	-0.0000	-0.0000	0.262	-0.0005	-0.0005	-0.0005	-0.0005
18	308	-0.0000	-0.0000	-0.0000	-0.0000	0.262	0.0001	0.0001	0.0001	0.0001
19	309	-0.0000	-0.0000	-0.0000	-0.0000	0.262	0.0003	0.0003	0.0003	0.0003
20	310	-0.0000	-0.0000	-0.0000	-0.0000	0.263	0.0014	0.0016	0.0016	0.0016
21	311	-0.0000	-0.0000	-0.0000	-0.0000	0.263	0.0032	0.0037	0.0037	0.0037
22	312	-0.0000	-0.0000	-0.0000	-0.0000	0.265	0.0097	0.0110	0.0110	0.0110
23	313	-0.0000	-0.0000	-0.0000	-0.0000	0.265	0.0402	0.0461	0.0461	0.0461
24	314	-0.0000	-0.0000	-0.0000	-0.0000	0.265	0.0634	0.0726	0.0726	0.0726
25	315	-0.0000	-0.0000	-0.0000	-0.0000	0.266	0.0703	0.0805	0.0805	0.0805
26	316	-0.0000	-0.0000	-0.0000	-0.0000	0.265	0.0882	0.1010	0.1010	0.1010
27	317	-0.0000	-0.0000	-0.0000	-0.0000	0.266	0.0919	0.1053	0.1053	0.1053
28	318	-0.0000	-0.0000	-0.0000	-0.0000	0.265	0.0908	0.1040	0.1040	0.1040
29	319	-0.0000	-0.0000	-0.0000	-0.0000	0.266	0.0859	0.0983	0.0983	0.0983
30	221	0.0646	0.0646	0.0739	0.0779	0.266	0.0881	0.1009	0.1064	0.1064
31	222	0.0700	0.0700	0.0801	0.0845	0.265	0.0907	0.1038	0.1095	0.1095
32	223	0.0586	0.0586	0.0671	0.0707	0.265	0.1136	0.1301	0.1371	0.1371
33	224	0.0461	0.0461	0.0528	0.0557	0.265	0.1219	0.1396	0.1471	0.1471
34	225	0.0261	0.0261	0.0298	0.0314	0.265	0.1393	0.1595	0.1681	0.1681
35	225	0.0261	0.0261	0.0298	0.0314	0.265	0.1674	0.1917	0.2020	0.2020

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION RESEARCH CENTER MCCRETT FIELD CALIF. PRELIMINARY DATA

Table with columns: MACH, Y/C, Tm (DEG K), REL LENGTH (METER), P (ATM), CS (W/GM2), CS (BTU/FT2-SEC), CS (BTU/FT2-SEC), ST (G.9C7), ST (G.9C7), ST (G.9C7), TIME (SEC). Rows 11-60.

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7246E-01 (SLUGS/FT2-SEC)

PROBE P.C. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***													
MACH	RE/METER	REL	G/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	C/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
5.10	4.3427E 06	3.9710E 06	3.9710E 06	3.000	3.000	212.27	2092.6	530.31	530.31	530.31	1.0000	1.0000	1.0000
MACH	RE/FT	REL	G/HS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	C/CS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
5.10	1.3237E 06	3.9710E 06	3.9710E 06	3.000	3.000	212.27	2092.6	530.31	530.31	530.31	1.0000	1.0000	1.0000
61	276	0.258	-0.0002	-0.0002	-0.0002	-0.0002	69	284	0.264	0.0879	0.0879	0.1006	0.1061
62	277	0.258	0.0001	0.0001	0.0001	0.0001	70	285	0.265	0.0925	0.0925	0.1043	0.1116
63	278	0.259	0.0011	0.0011	0.0011	0.0011	71	285	0.265	0.0911	0.0911	0.1043	0.1160
64	279	0.260	0.0058	0.0058	0.0058	0.0058	72	287	0.266	0.1014	0.1014	0.1161	0.1224
65	280	0.257	0.0316	0.0316	0.0316	0.0316	73	288	0.267	0.1013	0.1013	0.1160	0.1223
66	281	0.261	0.0564	0.0564	0.0564	0.0564	74	289	0.268	0.1290	0.1290	0.1478	0.1558
67	282	0.262	0.0816	0.0816	0.0816	0.0816	75	290	0.267	0.1469	0.1469	0.1683	0.1774
68	283	0.263	0.0904	0.0904	0.0904	0.0904							

TEST NO. 158
 RUN NO. 79
 RS(METER) C.3048
 RS(FT) 1.000
 H/HS(1.000) 1.0000
 H/HS(0.907) 1.0000
 H/HS(0.874) 1.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***									
CHAN	T/C	TIME/DEG IN	TIME/DEG R	Q (W/CM2)	QS (BTU/FT2-SEC)	C (BTU/FT2-SEC)	RS (METER)	RS (FT)	TIME (SEC)
51	276	316.9	570.4	-0.002	15.075	-0.002	13.283	-5.0289E-07	-2.151
52	277	317.2	570.9	0.001	15.069	0.001	13.278	1.6517E-07	1.7402E-07
53	278	317.8	572.0	0.017	15.058	0.015	13.268	3.7189E-06	3.9184E-06
54	279	318.8	573.9	0.087	15.040	0.076	13.252	1.8867E-05	1.9881E-05
55	280	315.8	568.4	0.477	15.054	0.421	13.300	1.0368E-04	1.0923E-04
56	281	320.3	576.5	0.848	15.035	0.747	13.230	1.8514E-04	1.9511E-04
57	282	321.4	578.6	1.224	14.994	1.078	13.212	4.6774E-04	2.8218E-04
58	283	322.7	580.9	1.354	14.971	1.193	13.191	2.9668E-04	3.1270E-04
59	284	323.5	582.3	1.315	14.957	1.155	13.179	2.8850E-04	3.0410E-04
60	285	324.8	584.6	1.281	14.935	1.217	13.160	3.0348E-04	3.1992E-04
61	286	325.2	585.4	1.360	14.927	1.199	13.152	2.9905E-04	3.1526E-04
62	287	326.1	586.9	1.513	14.912	1.335	13.140	3.3287E-04	3.5093E-04
63	288	327.8	590.0	1.507	14.882	1.328	13.113	3.3240E-04	3.5048E-04
64	289	329.3	592.7	1.016	14.856	1.688	13.090	4.4648E-04	4.6648E-04
65	290	328.0	590.5	2.185	14.877	1.928	13.109	4.8215E-04	5.0838E-04

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6615E-01 (SLUGS/FT2-SEC)

PROBE NC. = 3

TEST NO. 158
RUN NO. 79

FAM/HT 1.000
HAM/HT 1.000

RS (METER) C.3048
RS (FT) 1.0000

HI (JUCULE/KG) 1.2325E 06
HT (BTU/LBM) 530.01

TI (DEG K) 2162.5
TI (DEG R) 2092.6

PT (ATM) 14.44
PT (PSI) 212.27

REL LENGTH (METER) 0.514
REL LENGTH (FT) 3.000

REL LENGTH (METER) 3.9710E 06
REL LENGTH (FT) 3.9710E 06

RE/METER 4.3427E 06
KE/FT 1.3237E 06

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA TEST NO. 158
 RUN NO. 80
 CONSTANT 91ET 553

REL LENGTH(METER) 2.5085E 06
 REL LENGTH(FT) 3.170
 PT(P/SI) 121.13
 TT(PSI) 1970.3
 HT(BTU/LBM) 496.13
 RS(METER) 0.3748
 RS(FT) 1.2000
 HAM/HT 1.000
 HAM/HT 1.200

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	F/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	F/HS(0.907)	H/HS(0.874)
1	201	0.273	-0.0000	-0.0000	-0.0000	-0.0000	6	206	0.276	-0.0000	-0.0000	-0.0000	-0.0000
2	202	0.274	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.276	0.0000	0.0000	0.0000	0.0000
3	203	0.275	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.277	0.0000	0.0000	0.0000	0.0000
4	204	0.276	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.277	0.0000	0.0000	0.0000	0.0000
5	205	0.276	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.277	0.0000	0.0000	0.0000	0.0000

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEC K)	HT(JGULE/KG)	RS(METER)	HAW/HT	TEST NO.	RUN NO.
5.10	2.743E 05	2.508E 06	9.24	1.94E 06	1.157E 06	3.74E	1.000	158	80
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEC R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	8.361E 05	2.508E 06	12.13	1.97E 06	496.1A	1.000	1.000		

CHAN	T/C	TM(DEC K)	TM(DEC R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	CS(RTU/FT2-SFC)	ST(C.907)	ST(C.874)	TIME(SEC)
1	201	313.6	564.4	-0.000	-0.000	10.456	9.213	-0.000E-39	-0.000E-39	-0.000E-39	1.788
2	202	315.2	567.4	-0.000	-0.000	10.434	9.194	-0.000E-39	-0.000E-39	-0.000E-39	0.963
3	203	316.2	569.1	-0.000	-0.000	10.421	9.182	-0.000E-39	-0.000E-39	-0.000E-39	0.810
4	204	316.6	569.9	-0.000	-0.000	10.415	9.177	-0.000E-39	-0.000E-39	-0.000E-39	0.136
5	205	316.9	570.4	-0.000	-0.000	10.412	9.174	-0.000E-39	-0.000E-39	-0.000E-39	0.359
6	206	317.4	571.3	-0.000	-0.000	10.405	9.168	-0.000E-39	-0.000E-39	-0.000E-39	0.518
7	207	317.4	571.3	0.000	0.000	10.405	9.168	0.000E-39	0.000E-39	0.000E-39	0.392
8	208	318.0	572.4	0.000	0.000	10.396	9.161	0.000E-39	0.000E-39	0.000E-39	0.007
9	209	318.1	572.6	0.000	0.000	10.395	9.159	0.000E-39	0.000E-39	0.000E-39	0.046
10	210	317.9	572.2	0.000	0.000	10.398	9.162	0.000E-39	0.000E-39	0.000E-39	0.041

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.1863E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. PRELIMINARY DATA ***
 MACH 5.10 8.2548E 0E 2.4764E 0E 0.524 8.74 1.0363 1.1634E 0E 0.3048 1.000 1.000
 MACH 5.10 8.2548E 0E 2.4764E 0E 0.524 8.74 1.0363 1.1634E 0E 0.3048 1.000 1.000
 REL LENGTH(METER) FT(ATM) TT(DEG K) HT(JOULE/KG) PSI(METER) HAM/HT TEST NO. 156
 REL LENGTH(FT) TT(DEG R) HT(BTU/LBM) PSI(LIFT) HAM/HT RUN NO. 80
 5.10 8.2548E 0E 2.4764E 76 121.13 1985.4 59.30

CHAN	T/C	HM/HT	Q/OS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/OS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.274	0.0813	0.0833	0.0952	0.1018	36	226	0.275	-0.0000	-0.0000	-0.0000	-0.0000
12	302	0.274	0.0794	0.0911	0.0961	0.0961	37	227	0.274	-0.0000	-0.0000	-0.0000	-0.0000
13	303	0.273	0.0771	0.0883	0.0932	0.0932	38	228	0.273	0.0000	0.0000	0.0000	0.0000
14	304	0.274	0.0701	0.0804	0.0848	0.0848	39	229	0.273	0.0000	0.0000	0.0000	0.0000
15	305	0.274	0.0712	0.0815	0.0861	0.0861	40	230	0.272	0.0000	0.0000	0.0000	0.0000
16	306	0.273	0.0549	0.0549	0.0664	0.0664	41	231	0.272	0.0000	0.0000	0.0000	0.0000
17	307	0.273	0.0537	0.0537	0.0650	0.0650	42	232	0.273	0.0000	0.0000	0.0000	0.0000
18	308	0.273	0.0511	0.0511	0.0618	0.0618	43	233	0.273	0.0000	0.0000	0.0000	0.0000
19	309	0.273	0.0518	0.0518	0.0627	0.0627	44	234	0.273	0.0000	0.0000	0.0000	0.0000
20	310	0.273	0.0528	0.0528	0.0639	0.0639	45	235	0.273	0.0000	0.0000	0.0000	0.0000
21	311	0.274	0.0661	0.0661	0.0759	0.0830	46	236	0.274	-0.0000	-0.0000	-0.0000	-0.0000
22	312	0.274	0.0669	0.0669	0.0767	0.0839	47	237	0.275	-0.0000	-0.0000	-0.0000	-0.0000
23	313	0.273	0.0511	0.0511	0.0707	0.0739	48	238	0.275	-0.0000	-0.0000	-0.0000	-0.0000
24	314	0.273	0.0560	0.0560	0.0642	0.0677	49	239	0.275	-0.0000	-0.0000	-0.0000	-0.0000
25	315	0.273	0.0592	0.0592	0.0679	0.0717	50	240	0.276	-0.0000	-0.0000	-0.0000	-0.0000
26	316	0.274	0.0532	0.0532	0.0610	0.0644	51	241	0.275	-0.0000	-0.0000	-0.0000	-0.0000
27	317	0.274	0.0516	0.0516	0.0592	0.0625	52	242	0.276	-0.0000	-0.0000	-0.0000	-0.0000
28	318	0.274	0.0490	0.0490	0.0562	0.0592	53	243	0.275	-0.0000	-0.0000	-0.0000	-0.0000
29	319	0.274	0.0486	0.0486	0.0559	0.0590	54	244	0.276	-0.0000	-0.0000	-0.0000	-0.0000
30	221	0.275	0.0000	0.0000	0.0000	0.0000	55	245	0.275	-0.0000	-0.0000	-0.0000	-0.0000
31	221	0.275	0.0000	0.0000	0.0000	0.0000	56	246	0.275	-0.0000	-0.0000	-0.0000	-0.0000
32	222	0.277	0.0000	0.0000	0.0000	0.0000	57	247	0.275	-0.0000	-0.0000	-0.0000	-0.0000
33	223	0.276	0.0000	0.0000	0.0000	0.0000	58	248	0.275	-0.0000	-0.0000	-0.0000	-0.0000
34	224	0.276	0.0000	0.0000	0.0000	0.0000	59	249	0.275	-0.0000	-0.0000	-0.0000	-0.0000
35	225	0.275	0.0000	0.0000	0.0000	0.0000	60	250	0.275	-0.0000	-0.0000	-0.0000	-0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. PRELIMINARY DATA ***
 TEST NO. 15B
 RUN NO. 80
 MACH 5.10 2.7195E 06 2.4768E 06 0.914 8.24 1.030 1.263E
 REL LENGTH(METER) PI(ATM) TT(DIG K) HT(JOULE/KG) PS(METER) HAM/HT 1.000
 MACH 5.10 2.4768E 06 2.4768E 06 1.000 1.000 1.000 1.000
 REL LENGTH(FT) REL LENGTH(FT) TT(DIG R) HT(BTU/LBM) PS(LB/FT) HAM/HT 1.000

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	QB(TU/FT2-SEC)	QS(W/CM2)	JS(BTU/FT2-SEC)	STII(.907)	STIC(.874)	TIME(SEC)
11	301	318.0	572.5	0.576	0.772	10.518	9.268	3.662E-04	3.6791E-04	0.327
12	302	317.9	572.3	0.838	0.736	10.538	9.268	3.322E-04	3.5093E-04	0.346
13	303	317.4	569.5	0.812	0.715	10.530	9.274	3.224E-04	3.4011E-04	0.328
14	304	317.4	571.4	0.738	0.653	10.530	9.279	2.8754E-04	3.0969E-04	0.328
15	305	317.0	570.6	0.749	0.660	10.545	9.292	2.7798E-04	3.1438E-04	0.254
16	306	315.9	568.7	0.579	0.510	10.545	9.292	2.4248E-04	2.4248E-04	0.152
17	307	316.5	569.7	0.566	0.499	10.541	9.288	2.1396E-04	2.3718E-04	0.111
18	308	316.2	569.2	0.538	0.474	10.541	9.288	2.1396E-04	2.2561E-04	0.132
19	309	316.6	569.8	0.545	0.481	10.536	9.284	2.127E-04	2.2897E-04	0.132
20	310	316.6	569.9	0.557	0.490	10.536	9.284	2.127E-04	2.3335E-04	0.134
21	311	316.9	570.4	0.597	0.614	10.532	9.280	2.7693E-04	2.9215E-04	0.190
22	312	317.3	571.1	0.704	0.620	10.527	9.276	2.7595E-04	2.9534E-04	0.187
23	313	316.5	569.7	0.543	0.567	10.538	9.285	2.5563E-04	2.6966E-04	0.151
24	314	316.6	569.9	0.590	0.519	10.536	9.284	2.3426E-04	2.4713E-04	0.125
25	315	316.5	569.6	0.624	0.550	10.536	9.285	2.4759E-04	2.6161E-04	0.149
26	316	317.3	571.1	0.560	0.494	10.527	9.275	2.2282E-04	2.3597E-04	0.080
27	317	317.6	571.6	0.543	0.479	10.523	9.272	2.1674E-04	2.2813E-04	0.088
28	318	317.5	571.5	0.515	0.454	10.524	9.273	2.1498E-04	2.1623E-04	0.076
29	319	317.4	571.3	0.513	0.452	10.526	9.275	2.1417E-04	2.1540E-04	0.079
30		-0.0	-0.0	*****	*****	*****	*****	*****	*****	0.000
31	221	318.6	573.5	-0.000	-0.000	10.509	9.260	-0.000E-39	-0.000E-39	0.009
32	222	320.4	576.8	-0.000	-0.000	10.485	9.259	-0.000E-39	-0.000E-39	0.044
33	223	319.7	575.4	-0.000	-0.000	10.495	9.247	-0.000E-39	-0.000E-39	0.141
34	224	319.4	574.9	-0.000	-0.000	10.499	9.251	-0.000E-39	-0.000E-39	0.019
35	225	318.6	573.4	-0.000	-0.000	10.510	9.260	-0.000E-39	-0.000E-39	0.425
36	226	318.2	572.7	-0.000	-0.000	10.515	9.265	-0.000E-39	-0.000E-39	0.498
37	227	317.1	570.7	-0.000	-0.000	10.530	9.278	-0.000E-39	-0.000E-39	1.599
38	228	318.5	569.7	0.000	0.000	10.537	9.285	0.000E-39	0.000E-39	0.834
39	229	318.9	568.6	0.000	0.000	10.545	9.292	0.000E-39	0.000E-39	0.886
40	230	318.3	567.5	0.000	0.000	10.554	9.299	0.000E-39	0.000E-39	0.777
41	231	318.2	567.4	0.000	0.000	10.554	9.300	0.000E-39	0.000E-39	0.085
42	232	318.6	568.4	0.000	0.000	10.547	9.293	0.000E-39	0.000E-39	0.150
43	233	316.1	568.9	0.000	0.000	10.543	9.290	0.000E-39	0.000E-39	0.560
44	234	318.4	569.5	0.000	0.000	10.539	9.286	0.000E-39	0.000E-39	0.577
45	235	316.7	570.1	0.000	0.000	10.534	9.282	0.000E-39	0.000E-39	1.025
46	236	318.2	571.0	-0.000	-0.000	10.528	9.276	-0.000E-39	-0.000E-39	0.536
47	237	318.1	572.5	-0.000	-0.000	10.517	9.267	-0.000E-39	-0.000E-39	0.667
48	238	318.6	573.4	-0.000	-0.000	10.515	9.265	-0.000E-39	-0.000E-39	0.431
49	239	318.2	572.7	-0.000	-0.000	10.515	9.265	-0.000E-39	-0.000E-39	0.034
50	240	319.2	574.6	-0.000	-0.000	10.501	9.253	-0.000E-39	-0.000E-39	0.247
51	241	318.4	573.1	-0.000	-0.000	10.512	9.263	-0.000E-39	-0.000E-39	0.319
52	242	319.2	574.6	-0.000	-0.000	10.501	9.253	-0.000E-39	-0.000E-39	0.264
53	243	318.7	573.7	-0.000	-0.000	10.507	9.254	-0.000E-39	-0.000E-39	0.063
54	244	319.3	574.7	-0.000	-0.000	10.501	9.252	-0.000E-39	-0.000E-39	0.029
55	245	318.9	573.9	-0.000	-0.000	10.508	9.259	-0.000E-39	-0.000E-39	0.035
56	246	318.7	573.7	-0.000	-0.000	10.508	9.259	-0.000E-39	-0.000E-39	0.032
57	247	318.6	573.5	-0.000	-0.000	10.509	9.260	-0.000E-39	-0.000E-39	0.013
58	248	318.3	572.9	-0.000	-0.000	10.514	9.264	-0.000E-39	-0.000E-39	0.013
59	249	318.5	573.3	-0.000	-0.000	10.511	9.262	-0.000E-39	-0.000E-39	0.021
60	250	318.2	572.7	-0.000	-0.000	10.515	9.265	-0.000E-39	-0.000E-39	0.013

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.1739E-11 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 7.934E 06 2.3806E 06 3.075 121.13 2.32.5 513.31 1.0000 1.0000 1.0000
REZMETER REL LENGTH(METER) PT(ATM) TT(DEG K) HT(JOULE/KG) RSTIMETER HAW/HT H/HS(1.000) H/HS(0.907) H/HS(C.874)
5.10 4.6734E 06 2.3806E 06 0.924 3.24 1129.4 1.1937E 06 0.3048 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
MACH 5.10 7.934E 06 2.3806E 06 3.075 121.13 2.32.5 513.31 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
S.I. 7.934E 06 2.3806E 06 3.075 121.13 2.32.5 513.31 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(C.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(C.874)
51	276	0.269	-0.0000	0.0000	0.0000	0.0000	69	284	0.273	-0.0000	-0.0000	-0.0000	-0.0000
62	277	0.269	0.0000	0.0000	0.0000	0.0000	70	285	0.274	-0.0000	-0.0000	-0.0000	-0.0000
63	278	0.271	-0.0000	-0.0000	-0.0000	-0.0000	71	286	0.274	-0.0000	-0.0000	-0.0000	-0.0000
64	279	0.270	-0.0000	-0.0000	-0.0000	-0.0000	72	287	0.274	-0.0000	-0.0000	-0.0000	-0.0000
65	280	0.267	-0.0000	-0.0000	-0.0000	-0.0000	73	288	0.275	-0.0000	-0.0000	-0.0000	-0.0000
66	281	0.271	-0.0000	-0.0000	-0.0000	-0.0000	74	289	0.276	-0.0000	-0.0000	-0.0000	-0.0000
67	282	0.272	-0.0000	-0.0000	-0.0000	-0.0000	75	290	0.275	-0.0000	-0.0000	-0.0000	-0.0000
68	283	0.272	-0.0000	-0.0000	-0.0000	-0.0000							

PRELIMINARY DATA ***

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ***

MACH 2.6036E 06 REL LENGTH(METER) 0.914 P(TATM) 1129.1 HT(JOULE/KG) 1.1937E 06 TEST NO. 158
 MACH 2.6036E 06 REL LENGTH(METER) 0.914 P(TATM) 1129.1 HT(JOULE/KG) 1.1937E 06 RUN NO. 90
 5.1.1 7.9352E 05 2.3306E 06 21.13 20325 513.31 1.0000 1.0000

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.9CT)	ST(0.874)	TIME(SEC)
61	276	320.0	575.9	0.000	0.000	10.867	9.575	0.0000E-39	0.0000E-39	3.081
62	277	320.1	576.2	0.000	0.000	10.864	9.573	0.0000E-39	0.0000E-39	3.053
63	278	320.5	576.8	-0.000	-0.000	10.860	9.569	-0.0000E-39	-0.0000E-39	3.744
64	279	321.2	578.1	-0.000	-0.000	10.850	9.561	-0.0000E-39	-0.0000E-39	3.580
65	280	317.9	572.2	-0.000	-0.000	10.894	9.599	-0.0000E-39	-0.0000E-39	3.462
66	281	322.0	579.7	-0.000	-0.000	10.839	9.550	-0.0000E-39	-0.0000E-39	-0.395
67	282	322.8	581.1	-0.000	-0.000	10.828	9.541	-0.0000E-39	-0.0000E-39	-0.352
68	283	323.8	582.8	-0.000	-0.000	10.816	9.530	-0.0000E-39	-0.0000E-39	-0.046
69	284	324.3	583.7	-0.000	-0.000	10.809	9.524	-0.0000E-39	-0.0000E-39	-0.054
70	285	325.3	585.5	-0.000	-0.000	10.796	9.513	-0.0000E-39	-0.0000E-39	-0.077
71	286	325.4	585.8	-0.000	-0.000	10.794	9.511	-0.0000E-39	-0.0000E-39	-0.094
72	287	326.0	586.8	-0.000	-0.000	10.786	9.504	-0.0000E-39	-0.0000E-39	-0.099
73	288	327.2	589.0	-0.000	-0.000	10.770	9.489	-0.0000E-39	-0.0000E-39	-0.105
74	289	328.1	590.6	-0.000	-0.000	10.758	9.479	-0.0000E-39	-0.0000E-39	-0.107
75	290	327.2	588.9	-0.000	-0.000	10.771	9.490	-0.0000E-39	-0.0000E-39	-0.114

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1362E-01 (SLUGS/FT2-SEC)

PROBE NO. = 5

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 MACH 5.10 8.3616E 05 2.5085E 06 3.000 121.13 1970.3 1094.5 1.1537E 06 1.0000 1.0000 1.0000
 RE/METER 2.7433E 06 2.5085E 06 0.914 8.24 1094.5 1.1537E 06 1.0000 1.0000 1.0000
 RE/FT 2.7433E 06 2.5085E 06 0.914 8.24 1094.5 1.1537E 06 1.0000 1.0000 1.0000

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	PT(ATM)	PT(PSI)	TT(DEG R)	TT(DEG K)	HT(JOULE/KG)	HT(BTU/LBM)	RS(METER)	RS(FT)	HAM/HT	HAM/HT	TEST NO.	RUN NO.
1	201	0.273	0.0018	0.0018	0.0021	0.0022	6	206	6	206	0.276	0.276	0.0356	0.0408	0.0431	158	80	
2	202	0.274	0.0058	0.0058	0.0067	0.0071	7	207	7	207	0.276	0.276	0.0423	0.0486	0.0512	354	80	
3	203	0.275	0.0233	0.0233	0.0267	0.0282	8	208	8	208	0.277	0.277	0.0530	0.0608	0.0641	354	80	
4	204	0.276	0.0261	0.0261	0.0299	0.0316	9	209	9	209	0.277	0.277	0.0519	0.0596	0.0629	354	80	
5	205	0.276	0.0330	0.0330	0.0378	0.0399	10	210	10	210	0.277	0.277	0.0473	0.0543	0.0573	354	80	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***										
MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	
5.10	2.7433E 06	2.5085E 06	0.914	8.24	1094.6	1.1537E 06	0.3058	1.000	158	
MACH	RE/FT	REL	LENGTH(FT)	PT(PST)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.	
5.10	8.3616E 05	2.5045E 06	3.000	121.13	1970.3	496.13	1.0000	1.000	80	
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	201	313.6	564.4	0.017	0.213	10.456	9.213	7.4717E-06	7.8820E-06	1.788
2	202	315.2	567.4	0.061	0.194	10.434	9.194	2.6274E-05	2.5610E-05	0.963
3	203	316.2	569.1	0.242	0.182	10.421	9.182	9.6891E-05	1.0223E-04	0.510
4	204	316.6	569.9	0.272	0.177	10.415	9.177	1.0863E-04	1.1462E-04	0.156
5	205	316.9	570.4	0.343	0.174	10.412	9.174	1.3728E-04	1.4486E-04	-0.360
6	206	317.4	571.3	0.370	0.168	10.405	9.168	1.4815E-04	1.5633E-04	-0.518
7	207	317.4	571.3	0.440	0.168	10.405	9.168	1.7624E-04	1.8598E-04	-0.393
8	208	318.0	572.4	0.551	0.161	10.396	9.161	2.2062E-04	2.3281E-04	0.005
9	209	318.1	572.6	0.540	0.159	10.395	9.159	2.1622E-04	2.2817E-04	0.045
10	210	317.9	572.2	0.492	0.162	10.398	9.162	1.9703E-04	2.0792E-04	0.041

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1863E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA *** TEST NO. 158
 MACH 5.10 RE/METER 2.7083E 06 REL LENGTH(METER) 0.914 TT(DEG K) 1103.0 HT(JOULE/KG) 1.1634E 06 RS(METER) 0.3048 HAM/HT 1.000
 MACH 5.10 RE/FT 8.2548E 05 REL LENGTH(FT) 3.000 TT(DEG R) 1985.4 HT(BTU/LBM) 500.30 RS(FT) 1.0000 HAM/HT 1.000

CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(10.907)	H/HS(0.874)	CHAN	T/C	HM/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.274	-0.0000	-0.0000	-0.0000	-0.0000	36	226	0.275	0.0028	0.0032	0.0034	
12	302	0.274	-0.0000	-0.0000	-0.0000	-0.0000	37	227	0.274	0.0007	0.0008	0.0009	
13	303	0.273	-0.0000	-0.0000	-0.0000	-0.0000	38	228	0.273	-0.0002	-0.0002	-0.0003	
14	304	0.274	-0.0000	-0.0000	-0.0000	-0.0000	39	229	0.273	-0.0008	-0.0009	-0.0009	
15	305	0.274	-0.0000	-0.0000	-0.0000	-0.0000	40	230	0.272	-0.0015	-0.0017	-0.0018	
16	306	0.273	-0.0000	-0.0000	-0.0000	-0.0000	41	231	0.272	-0.0006	-0.0007	-0.0008	
17	307	0.273	-0.0000	-0.0000	-0.0000	-0.0000	42	232	0.273	-0.0004	-0.0005	-0.0006	
18	308	0.273	-0.0000	-0.0000	-0.0000	-0.0000	43	233	0.273	-0.0006	-0.0007	-0.0008	
19	309	0.273	-0.0000	-0.0000	-0.0000	-0.0000	44	234	0.273	-0.0005	-0.0005	-0.0006	
20	310	0.273	-0.0000	-0.0000	-0.0000	-0.0000	45	235	0.273	-0.0005	-0.0005	-0.0006	
21	311	0.274	-0.0000	-0.0000	-0.0000	-0.0000	46	236	0.274	0.0005	0.0006	0.0007	
22	312	0.274	-0.0000	-0.0000	-0.0000	-0.0000	47	237	0.275	0.0048	0.0056	0.0059	
23	313	0.273	-0.0000	-0.0000	-0.0000	-0.0000	48	238	0.275	0.0199	0.0229	0.0241	
24	314	0.273	-0.0000	-0.0000	-0.0000	-0.0000	49	239	0.275	0.0295	0.0339	0.0357	
25	315	0.274	-0.0000	-0.0000	-0.0000	-0.0000	50	240	0.276	0.0320	0.0367	0.0387	
26	316	0.274	-0.0000	-0.0000	-0.0000	-0.0000	51	241	0.275	0.0418	0.0480	0.0506	
27	317	0.274	-0.0000	-0.0000	-0.0000	-0.0000	52	242	0.276	0.0451	0.0517	0.0546	
28	318	0.274	-0.0000	-0.0000	-0.0000	-0.0000	53	243	0.275	0.0501	0.0575	0.0606	
29	319	0.274	-0.0000	-0.0000	-0.0000	-0.0000	54	244	0.276	0.0474	0.0544	0.0574	
30	221	0.275	0.0471	0.0471	0.0541	0.0570	55	245	0.275	0.0447	0.05 3	0.0541	
31	222	0.277	0.0473	0.0473	0.0543	0.0573	56	246	0.275	0.0420	0.0482	0.0509	
32	223	0.276	0.0356	0.0356	0.0408	0.0431	57	247	0.275	0.0473	0.0572	0.0572	
33	224	0.276	0.0264	0.0264	0.0303	0.0319	58	248	0.275	0.0436	0.0500	0.0528	
34	225	0.275	0.0120	0.0120	0.0137	0.0145	59	249	0.275	0.0437	0.0501	0.0529	
35	225	0.275	0.0120	0.0120	0.0137	0.0145	60	250	0.275	0.0450	0.0516	0.0544	

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 2.7083E 06 REL LENGTH(METER) 0.914 PT(ATM) 8.24 TT(DEG K) 1103.0 RS(METER) 0.3048 HAM/HT 1.000 TEST NO. 158
 MACH 5.10 RE/FT 8.2548E 05 REL LENGTH(FT) 3.000 PT(PSI) 121.13 1985.4 MT(BTU/LBM) 500.30 RS(FT) 1.000 HAM/HT 1.000 RUN NO. 80

CHAN	T/C	TWIDEG K1	TWIDEG R1	Q1W/CM2	Q(BTU/FT2-SEC)	Q(SI/CM2)	QS(BTU/FT2-SEC)	QS(SI/CM2)	US(BTU/FT2-SEC)	US(SI/CM2)	SI(0.907)	SI(0.874)	TIME(SEC)
11	301	318.0	572.3	-0.000	-0.000	10.518	9.268	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	2.325	
12	302	317.9	572.3	-0.000	-0.000	10.518	9.268	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	2.345	
13	303	316.4	569.5	-0.000	-0.000	10.539	9.286	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	2.289	
14	304	317.4	571.4	-0.000	-0.000	10.525	9.274	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.328	
15	305	317.0	570.6	-0.000	-0.000	10.530	9.279	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.254	
16	306	315.9	568.7	-0.000	-0.000	10.545	9.292	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	2.151	
17	307	316.5	569.7	-0.000	-0.000	10.537	9.288	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.127	
18	308	316.2	569.2	-0.000	-0.000	10.541	9.288	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.111	
19	309	316.3	569.8	-0.000	-0.000	10.536	9.284	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.132	
20	310	316.6	569.9	-0.000	-0.000	10.532	9.284	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.133	
21	311	316.9	570.4	-0.000	-0.000	10.532	9.280	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.189	
22	312	317.3	571.1	-0.000	-0.000	10.527	9.276	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.185	
23	313	316.5	569.7	-0.000	-0.000	10.538	9.285	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.153	
24	314	316.6	569.9	-0.000	-0.000	10.536	9.284	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.125	
25	315	316.5	569.6	-0.000	-0.000	10.538	9.285	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.149	
26	316	317.3	571.1	-0.000	-0.000	10.527	9.275	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.083	
27	317	317.6	571.6	-0.000	-0.000	10.523	9.272	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.387	
28	318	317.5	571.5	-0.000	-0.000	10.524	9.273	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.375	
29	319	317.4	571.3	-0.000	-0.000	10.526	9.275	-0.000E-39	-0.000E-39	-0.000E-39	-0.000E-39	0.078	
30	320	-0.0	-0.0	*****	*****	*****	*****	*****	*****	*****	*****	0.000	
31	221	318.6	573.5	0.495	0.436	10.509	9.260	1.973E-04	2.082E-04	2.082E-04	2.082E-04	0.009	
32	222	320.7	576.8	0.496	0.437	10.485	9.239	1.981E-04	2.090E-04	2.090E-04	2.090E-04	0.384	
33	223	319.7	575.4	0.373	0.329	10.495	9.247	1.4901E-04	1.5723E-04	1.5723E-04	1.5723E-04	-0.141	
34	224	319.4	574.9	0.277	0.244	10.499	9.251	1.1050E-04	1.1659E-04	1.1659E-04	1.1659E-04	0.016	
35	225	318.3	573.4	0.126	0.111	10.510	9.260	5.0134E-05	5.2897E-05	5.2897E-05	5.2897E-05	0.423	
36	226	318.2	572.7	0.029	0.026	10.515	9.265	1.1671E-05	1.2314E-05	1.2314E-05	1.2314E-05	0.498	
37	227	317.1	570.7	0.007	-0.007	10.530	9.278	2.9540E-06	3.1163E-06	3.1163E-06	3.1163E-06	0.379	
38	228	318.3	569.7	-0.002	-0.002	10.537	9.285	-8.9688E-07	-9.4593E-07	-9.4593E-07	-9.4593E-07	1.597	
39	229	315.9	568.6	-0.008	-0.007	10.545	9.299	-3.2797E-06	-3.4597E-06	-3.4597E-06	-3.4597E-06	0.836	
40	230	315.3	567.5	-0.016	-0.014	10.554	9.299	-6.2954E-06	-6.6405E-06	-6.6405E-06	-6.6405E-06	0.777	
41	231	315.2	567.4	-0.007	-0.006	10.544	9.300	-2.6330E-06	-2.7773E-06	-2.7773E-06	-2.7773E-06	0.085	
42	232	315.8	568.4	-0.005	-0.004	10.547	9.293	-1.8410E-06	-1.9420E-06	-1.9420E-06	-1.9420E-06	-0.150	
43	233	316.1	568.9	-0.007	-0.006	10.543	9.290	-2.6131E-06	-2.7566E-06	-2.7566E-06	-2.7566E-06	0.562	
44	234	316.4	569.5	-0.005	-0.004	10.539	9.286	-1.9405E-06	-2.0471E-06	-2.0471E-06	-2.0471E-06	0.527	
45	235	316.7	570.1	-0.005	-0.004	10.534	9.282	-1.9690E-06	-2.0772E-06	-2.0772E-06	-2.0772E-06	1.025	
46	236	317.2	571.0	0.006	0.005	10.528	9.276	2.2536E-06	2.3775E-06	2.3775E-06	2.3775E-06	0.536	
47	237	318.1	572.5	0.051	0.045	10.517	9.267	2.0268E-05	2.1384E-05	2.1384E-05	2.1384E-05	0.667	
48	238	318.6	573.4	0.210	0.185	10.510	9.261	8.3498E-05	8.8098E-05	8.8098E-05	8.8098E-05	0.431	
49	239	318.2	572.7	0.311	0.274	10.515	9.265	1.2368E-04	1.3049E-04	1.3049E-04	1.3049E-04	-0.035	
50	240	319.2	574.6	0.336	0.296	10.501	9.253	1.3361E-04	1.4119E-04	1.4119E-04	1.4119E-04	-0.243	
51	241	318.4	573.1	0.440	0.388	10.512	9.263	1.7519E-04	1.8483E-04	1.8483E-04	1.8483E-04	-0.380	
52	242	319.2	574.6	0.473	0.417	10.501	9.253	1.8879E-04	1.9920E-04	1.9920E-04	1.9920E-04	-0.264	
53	243	318.7	573.7	0.526	0.464	10.507	9.258	2.0976E-04	2.2132E-04	2.2132E-04	2.2132E-04	0.063	
54	244	319.3	574.7	0.498	0.439	10.501	9.252	1.9859E-04	2.0954E-04	2.0954E-04	2.0954E-04	0.056	
55	245	318.9	573.9	0.449	0.414	10.506	9.257	1.8711E-04	1.9743E-04	1.9743E-04	1.9743E-04	0.029	
56	246	318.7	573.7	0.441	0.389	10.508	9.259	1.7593E-04	1.8562E-04	1.8562E-04	1.8562E-04	0.034	
57	247	318.6	573.5	0.497	0.440	10.509	9.260	1.9787E-04	2.0877E-04	2.0877E-04	2.0877E-04	0.032	
58	248	318.3	572.9	0.458	0.404	10.514	9.264	1.8252E-04	1.9257E-04	1.9257E-04	1.9257E-04	0.013	
59	249	318.5	573.3	0.459	0.405	10.511	9.262	1.8295E-04	1.9303E-04	1.9303E-04	1.9303E-04	0.021	
60	250	318.2	572.7	0.473	0.417	10.515	9.265	1.8833E-04	1.9870E-04	1.9870E-04	1.9870E-04	-0.013	

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1739E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MORFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.
5.10	2.6036E 06	2.3806E 06	0.914	8.24	1129.1	1.1937E 06	0.3048	1.000	158
MACH	RE/FT	REL	LENGTH(FT)	PT(PST)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	RUN NO.
5.10	7.9352E 05	2.3806E 06	3.000	121.13	2032.5	513.31	1.0000	1.000	80

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	G(BTU/FT2-SEC)	GS(W/CM2)	GS(BTU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
61	276	320.0	575.9	-0.003	-0.003	10.867	9.575	-1.1176E-06	-1.1786E-06	0.081
62	277	320.1	576.2	-0.002	-0.002	10.864	9.573	-7.4199E-07	-7.8248E-07	0.053
63	278	320.5	576.8	0.006	0.006	10.860	9.569	2.5230E-06	2.6607E-06	0.744
64	279	321.2	578.1	0.030	0.026	10.850	9.561	1.1763E-05	1.2408E-05	0.580
65	280	317.9	572.2	0.204	0.180	10.894	9.599	7.9608E-05	8.3939E-05	0.452
66	281	322.0	579.7	0.345	0.304	10.839	9.550	1.3560E-04	1.4302E-04	-0.395
67	282	322.8	581.1	0.479	0.422	10.828	9.541	1.8830E-04	1.9862E-04	-0.353
68	283	323.8	582.8	0.532	0.469	10.816	9.520	2.0943E-04	2.2092E-04	-0.346
69	284	324.3	583.7	0.515	0.456	10.809	9.524	2.0298E-04	2.1412E-04	-0.355
70	285	325.3	585.5	0.507	0.447	10.796	9.513	1.9986E-04	2.1084E-04	-0.377
71	286	325.4	585.8	0.467	0.411	10.794	0.511	1.8410E-04	1.9422E-04	-0.394
72	287	326.0	586.8	0.479	0.422	10.786	9.504	1.8913E-04	1.9954E-04	-0.399
73	288	327.2	589.0	0.445	0.392	10.770	9.489	1.7609E-04	1.8580E-04	-0.105
74	289	328.1	590.6	0.502	0.443	10.758	9.479	1.9887E-04	2.0984E-04	-0.108
75	290	327.2	588.9	0.504	0.444	10.771	9.490	1.9929E-04	2.1028E-04	-0.115

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.1362E-01 (SLUGS/FT2-SEC)

PROBE NO.= 3

503

PRELIMINARY DATA ***

TEST NO. 158

RUN NO. 81

CONSTANT SET 353

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION: AMES RESEARCH CENTER MCCRETT FIELD CALIF.

MACH	REL	W/OS	H/HS(1.000)	H/HS(1.907)	H/HS(1.007)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	C/GS	RS(FIT)	F/AV/HT	1.000
5.20	4.7454E 06	4.3392E 06	3.0000	212.72	1988.0	501.13	1.0000							
5.25	4.4454E 06	4.3392E 06	3.0000	212.72	1988.0	501.13	1.0000							

CHAN	T/C	HW/HT	W/OS	H/HS(1.000)	H/HS(1.907)	H/HS(1.007)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	C/GS	RS(FIT)	F/AV/HT	1.000
1	201	0.275	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	6	206	0.276	-0.0000	-0.0000	0.0000	-0.0000
2	202	0.273	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	7	207	0.276	0.0000	0.0000	0.0000	0.0000
3	203	0.275	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	8	208	0.277	0.0000	0.0000	0.0000	0.0000
4	204	0.275	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	9	209	0.277	0.0000	0.0000	0.0000	0.0000
5	205	0.276	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	10	210	0.277	0.0000	0.0000	0.0000	0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION MES RESEARCH CENTER MCCRETT FIELD CALIF. PRELIMINARY DATA

HAW/HT 1.000 TEST NO. 158
 RS(FT) HAW/HT 1.000 RUN NO. 81
 PS(METER) 3.3048
 HT(JOULE/KG) 1651E 06
 HT(FT) 1.000
 1988.0 301.3

CHAN	I/C	TIME(SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	SI(L/907)	SI(L/974)	TIME(SEC)
1	201	314.9	14.020	12.354	-0.000E-39	-0.000E-39	1.658
2	202	317.3	13.978	12.317	-0.000E-39	-0.000E-39	0.998
3	203	318.6	13.954	12.295	-0.000E-39	-0.000E-39	0.036
4	204	319.3	13.943	12.286	-0.000E-39	-0.000E-39	0.359
5	205	319.7	13.934	12.278	-0.000E-39	-0.000E-39	0.082
6	206	320.5	13.921	12.266	-0.000E-39	-0.000E-39	0.179
7	207	320.5	13.922	12.267	0.000E-39	0.000E-39	0.123
8	208	321.4	13.906	12.253	0.000E-39	0.000E-39	0.185
9	209	321.4	13.905	12.252	0.000E-39	0.000E-39	0.228
10	210	321.1	13.911	12.257	0.000E-39	0.000E-39	0.221

FREC-STREAM DENSITY-VELOCITY PRODUCT = 3.8139E-01 (SLUGS/FT2-SEC)

PROBE NUM = 4

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCCRETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 81

MACH	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT
5.11	4.1737E 06	0.914	14.47	1949E 06	0.3348	1.000
MACH	REL LENGTH(FT)	PT(PST)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT
5.10	4.1737E 06	0.914	26.34	513.85	1.000	1.000

CHAN	T/C	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.270	0.0825	0.0870	0.267	0.0000	0.0000
12	302	0.270	0.0692	0.0937	0.267	0.0000	0.0000
13	303	0.268	0.0695	0.0827	0.268	0.0000	0.0000
14	304	0.270	0.0637	0.0730	0.267	0.0000	0.0000
15	305	0.269	0.0654	0.0749	0.267	0.0000	0.0000
16	306	0.269	0.0538	0.0617	0.266	0.0000	0.0000
17	307	0.269	0.0519	0.0593	0.267	0.0000	0.0000
18	308	0.269	0.0497	0.0569	0.267	0.0000	0.0000
19	309	0.269	0.0499	0.0571	0.268	0.0000	0.0000
20	310	0.269	0.0512	0.0587	0.268	0.0000	0.0000
21	311	0.269	0.0613	0.0702	0.269	0.0000	0.0000
22	312	0.270	0.0629	0.0721	0.270	0.0000	0.0000
23	313	0.269	0.0584	0.0669	0.270	0.0000	0.0000
24	314	0.269	0.0537	0.0616	0.270	0.0000	0.0000
25	315	0.269	0.0578	0.0662	0.271	0.0000	0.0000
26	316	0.270	0.0513	0.0587	0.270	0.0000	0.0000
27	317	0.270	0.0519	0.0595	0.271	0.0000	0.0000
28	318	0.270	0.0562	0.0644	0.271	0.0000	0.0000
29	319	0.269	0.0556	0.0626	0.271	0.0000	0.0000
30	221	0.271	0.0000	0.0000	0.271	0.0000	0.0000
31	222	0.273	0.0000	0.0000	0.271	0.0000	0.0000
32	223	0.272	0.0000	0.0000	0.270	0.0000	0.0000
33	224	0.272	0.0000	0.0000	0.270	0.0000	0.0000
34	225	0.272	0.0000	0.0000	0.270	0.0000	0.0000
35	225	0.272	0.0000	0.0000	0.270	0.0000	0.0000

PRELIMINARY DATA ***
MACH 5.1C
4.5545E-04
4.1737E-06
4.1737E-06

RESEARCH CENTER MOFFETT FIELD CALIF. ***
RS(METER) 0.3348
RS(FT) 1.0977
HT(JOULE/KG) 1.1949E-06
HT(TU/LBM) 5.1E-05

ADMINISTRATION AMES
PT(ATM) 14.47
TT(DEC K) 113C-2
TT(DEC R) 273444

REL LENGTH(METER) 0.314
REL LENGTH(FT) 1.027
REL LENGTH(M) 3.000

CHAN	T/C	TM(DEC K)	TM(DEC R)	Q(M/CM2)	Q(BTU/FT2-SEC)	Q(S/W/CM2)	QS(BTU/FT2-SFC)	SI(0.874)	TIME(SEC)
11	301	321.2	578.2	1.237	0.974	14.399	2.314E-04	2.4409E-04	0.257
12	302	321.2	578.2	0.997	0.878	14.398	2.2451E-04	2.3467E-04	0.255
13	303	319.1	574.3	0.783	0.971	14.436	2.2005E-04	2.3231E-04	0.270
14	304	320.8	577.5	0.917	0.809	14.406	2.1685E-04	2.182E-04	0.322
15	305	320.1	576.2	0.942	0.831	14.418	2.1609E-04	2.2155E-04	0.234
16	306	319.6	575.2	0.777	0.884	14.428	1.7495E-04	1.8237E-04	0.166
17	307	320.3	576.6	0.748	0.859	14.415	1.6874E-04	1.7583E-04	0.107
18	308	319.6	575.4	0.717	0.832	14.426	1.5968E-04	1.684E-04	0.100
19	309	319.8	575.7	0.719	0.824	14.423	1.5823E-04	1.7364E-04	0.109
20	310	319.8	575.6	0.739	0.851	14.424	1.5466E-04	1.7364E-04	0.172
21	311	320.5	576.9	0.983	0.778	14.411	1.9596E-04	2.0771E-04	0.172
22	312	321.2	578.2	0.906	0.798	14.399	2.0217E-04	2.1321E-04	0.173
23	313	320.2	576.4	0.842	0.742	14.416	1.877E-04	1.9795E-04	0.158
24	314	320.5	576.9	0.774	0.682	14.412	1.7467E-04	1.809E-04	0.131
25	315	320.6	577.1	0.832	0.735	14.410	1.6574E-04	1.829E-04	0.167
26	316	320.6	577.5	0.738	0.651	14.405	1.6874E-04	1.9574E-04	0.031
27	317	321.2	578.1	0.748	0.659	14.399	1.6874E-04	1.7595E-04	0.049
28	318	321.0	577.8	0.829	0.713	14.402	1.849E-04	1.9035E-04	0.094
29	319	320.5	576.9	0.845	0.833	14.411	2.1685E-04	2.2231E-04	0.160
30	221	322.0	579.7	0.000	0.000	14.384	0.000E-39	0.000E-39	0.000
31	222	323.4	582.1	0.000	0.000	14.338	0.000E-39	0.000E-39	0.148
32	223	323.4	582.1	0.000	0.000	14.360	0.000E-39	0.000E-39	0.210
33	224	323.0	581.4	0.000	0.000	14.367	0.000E-39	0.000E-39	0.126
34	225	323.8	582.3	0.000	0.000	14.388	0.000E-39	0.000E-39	0.310
35	226	321.2	578.2	0.000	0.000	14.398	0.000E-39	0.000E-39	0.539
36	227	319.7	575.5	0.000	0.000	14.450	0.000E-39	0.000E-39	0.537
37	228	318.9	574.0	0.000	0.000	14.450	0.000E-39	0.000E-39	0.596
38	229	318.1	573.5	0.000	0.000	14.454	0.000E-39	0.000E-39	0.742
39	230	317.3	571.1	0.000	0.000	14.469	0.000E-39	0.000E-39	1.123
40	231	316.9	570.4	0.000	0.000	14.475	0.000E-39	0.000E-39	-0.951
41	232	317.7	571.8	0.000	0.000	14.461	0.000E-39	0.000E-39	-1.383
42	233	318.1	572.6	0.000	0.000	14.454	0.000E-39	0.000E-39	-4.845
43	234	318.5	573.4	0.000	0.000	14.446	0.000E-39	0.000E-39	0.000
44	235	319.0	574.3	0.000	0.000	14.437	0.000E-39	0.000E-39	1.393
45	236	319.5	575.4	0.000	0.000	14.426	0.000E-39	0.000E-39	0.851
46	237	320.9	577.6	0.000	0.000	14.435	0.000E-39	0.000E-39	0.568
47	238	321.6	578.9	0.000	0.000	14.432	0.000E-39	0.000E-39	0.704
48	239	321.1	578.0	0.000	0.000	14.400	0.000E-39	0.000E-39	0.624
49	240	322.7	580.8	0.000	0.000	14.373	0.000E-39	0.000E-39	0.312
50	241	321.6	578.8	0.000	0.000	14.392	0.000E-39	0.000E-39	0.157
51	242	322.0	579.7	0.000	0.000	14.372	0.000E-39	0.000E-39	0.030
52	243	322.0	579.7	0.000	0.000	14.364	0.000E-39	0.000E-39	0.124
53	244	322.3	580.1	0.000	0.000	14.370	0.000E-39	0.000E-39	0.285
54	245	322.3	580.1	0.000	0.000	14.380	0.000E-39	0.000E-39	0.299
55	246	322.0	579.6	0.000	0.000	14.384	0.000E-39	0.000E-39	0.318
56	247	321.9	579.4	0.000	0.000	14.386	0.000E-39	0.000E-39	0.342
57	248	321.4	578.6	0.000	0.000	14.395	0.000E-39	0.000E-39	0.362
58	249	321.7	579.1	0.000	0.000	14.390	0.000E-39	0.000E-39	0.358
59	250	321.3	578.3	0.000	0.000	14.398	0.000E-39	0.000E-39	0.367

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.7486E-01 (SLUGS/FT2-SEC)

PROBE NO. = 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	5.10	4.3975E 06	4.0211E 06	4.0211E 06	3.0000	0.914	14.47	1155.4	1.2242E 06	C.3048	1.000	158
MACH	5.10	1.3434E 05	4.0211E 06	4.0211E 06	3.0000	0.914	14.47	1155.4	1.2242E 06	C.3048	1.000	81
		REL	REL	REL	LENGTH(FT)	PT(PST)	TT(DEG R)	HT(LBTU/LBM)	RS(FT)	H/W/HT	TEST NO.	
											RUN NO.	

CHAN	T/C	H/W/HT	Q/QS	H/HS(1.000)	H/HS(2.907)	H/HS(0.874)	CHAN	T/C	H/W/HT	C/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
61	276	0.253	0.0000	0.0000	0.0000	0.0000	69	284	0.271	0.0700	-0.0000	-0.0000	-0.0000
62	277	0.266	0.0000	0.0000	0.0000	0.0000	70	285	0.272	0.0000	-0.0000	-0.0000	-0.0000
63	278	0.266	-0.0000	-0.0000	-0.0000	-0.0000	71	286	0.272	0.0000	-0.0000	-0.0000	-0.0000
64	279	0.267	-0.0000	-0.0000	-0.0000	-0.0000	72	287	0.273	0.0000	-0.0000	-0.0000	-0.0000
65	280	0.265	-0.0000	-0.0000	-0.0000	-0.0000	73	288	0.274	0.0000	-0.0000	-0.0000	-0.0000
66	281	0.268	-0.0000	-0.0000	-0.0000	-0.0000	74	289	0.275	0.0000	-0.0000	-0.0000	-0.0000
67	282	0.269	-0.0000	-0.0000	-0.0000	-0.0000	75	290	0.275	0.0000	-0.0000	-0.0000	-0.0000
68	283	0.271	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFEET FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 4.3975E 06 REL 4.021E 06 TW(DEC R) 333.4 Q(W/CM2) 14.839 Q(SI/FT2-SEC) 13.075 ST(C-9C7) 0.0000E-39 ST(C-P74) 0.0000E-39

5.10 RE/FT 1.340E 06 REL 4.021E 06 TW(DEC R) 333.4 Q(W/CM2) 14.839 Q(SI/FT2-SEC) 13.075 ST(C-9C7) 0.0000E-39 ST(C-P74) 0.0000E-39

LE(FT) 0.914 LE(FT) 0.914 TT(DEC K) 14.47 TT(DEC K) 14.47 TT(DEC K) 14.47 TT(DEC K) 14.47 TT(DEC K) 14.47 TT(DEC K) 14.47 TT(DEC K) 14.47 TT(DEC K) 14.47 TT(DEC K) 14.47

PI(ATM) 1.55E 4 PI(ATM) 1.55E 4 PI(ATM) 1.55E 4 PI(ATM) 1.55E 4 PI(ATM) 1.55E 4 PI(ATM) 1.55E 4 PI(ATM) 1.55E 4 PI(ATM) 1.55E 4 PI(ATM) 1.55E 4

RS(METER) 0.3048 RS(METER) 0.3048 RS(METER) 0.3048 RS(METER) 0.3048 RS(METER) 0.3048 RS(METER) 0.3048 RS(METER) 0.3048 RS(METER) 0.3048

HA(M/HT) 1.000 HA(M/HT) 1.000 HA(M/HT) 1.000 HA(M/HT) 1.000 HA(M/HT) 1.000 HA(M/HT) 1.000 HA(M/HT) 1.000 HA(M/HT) 1.000

MS(FT) 1.500 MS(FT) 1.500 MS(FT) 1.500 MS(FT) 1.500 MS(FT) 1.500 MS(FT) 1.500 MS(FT) 1.500 MS(FT) 1.500

CHAN	Y/C	TM(DEC K)	TM(DEC R)	Q(W/CM2)	Q(SI/FT2-SEC)	Q(SI/CM2)	Q(SI/FT2-SEC)	ST(C-9C7)	ST(C-P74)	TIME(SEC)
51	276	333.4	582.1	0.000	0.000	14.839	13.075	0.0000E-39	0.0000E-39	1.261
52	277	323.7	582.6	0.000	0.000	14.834	13.071	0.0000E-39	0.0000E-39	18.152
63	278	324.4	583.8	0.000	0.000	14.822	13.060	0.0000E-39	0.0000E-39	-0.007
54	278	323.3	583.6	0.000	0.000	14.805	13.045	0.0000E-39	0.0000E-39	0.590
65	280	322.4	580.4	0.000	0.000	14.856	13.090	0.0000E-39	0.0000E-39	0.585
66	281	327.0	588.6	0.000	0.000	14.775	13.019	0.0000E-39	0.0000E-39	-0.175
67	282	328.2	590.8	0.000	0.000	14.753	13.000	0.0000E-39	0.0000E-39	-0.094
58	283	329.5	593.0	0.000	0.000	14.732	12.981	0.0000E-39	0.0000E-39	0.176
59	284	330.2	594.3	0.000	0.000	14.719	12.969	0.0000E-39	0.0000E-39	0.164
70	285	331.5	597.8	0.000	0.000	14.695	12.948	0.0000E-39	0.0000E-39	0.158
71	286	331.9	597.4	0.000	0.000	14.689	12.943	0.0000E-39	0.0000E-39	0.161
72	287	332.6	598.7	0.000	0.000	14.676	12.932	0.0000E-39	0.0000E-39	0.151
73	288	333.3	601.8	0.000	0.000	14.646	12.905	0.0000E-39	0.0000E-39	0.136
74	289	335.7	604.3	0.000	0.000	14.622	12.884	0.0000E-39	0.0000E-39	0.142
75	290	334.7	602.4	0.000	0.000	14.640	12.900	0.0000E-39	0.0000E-39	0.136

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.586E-1 (SLUGS/FT2-SEC)

PROBE NO. = 3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
 TEST NO. 158
 RUN NO. 8)
 CONSTANT SET 354

MACH	RE/METER	REL	4.3392E 06	REL	0.914	PT(ATM)	14.47	TT(DEG K)	1104.5	HT(JOULE/KG)	1.1651E 06	RS(METER)	0.3048	HAW/HT	1.000
MACH	RE/FT	REL	4.3392E 06	REL	3.000	PT(PSI)	212.72	TT(DEG R)	1988.0	HT(BTU/LBM)	501.03	RS(FT)	1.0000	HAW/HT	1.000
5.10	1.4464E 06	4.3392E 06	4.3392E 06	4.3392E 06	3.000	212.72	212.72	1988.0	1988.0	501.03	501.03	1.0000	1.0000	1.000	1.000
CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	H/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	H/HS(0.864)	H/HS(0.874)
1	201	0.271	0.0026	0.0026	0.0030	0.0032	6	206	0.276	0.0714	0.0714	0.0819	0.0819	0.0819	0.0864
2	202	0.273	0.0094	0.0094	0.0108	0.0114	7	207	0.276	0.0815	0.0815	0.0935	0.0935	0.0987	0.0987
3	203	0.275	0.0403	0.0403	0.0463	0.0488	8	208	0.277	0.0979	0.0979	0.1124	0.1124	0.1186	0.1186
4	204	0.275	0.0488	0.0488	0.0560	0.0591	9	209	0.277	0.0973	0.0973	0.1117	0.1117	0.1179	0.1179
5	205	0.276	0.0626	0.0626	0.0718	0.0758	10	210	0.277	0.0923	0.0923	0.1059	0.1059	0.1118	0.1118

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***									
MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	T1(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	RUN NO.
5.10	4.7454E 06	4.3392E 06	14.47	1104.5	1.1651E 06	0.3048	1.000	81	81
5.10	1.4466E 06	4.3392E 06	212.72	1988.0	501.03	1.0000	1.000		

CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(M/CM2)	Q(8TU/FT2-SEC)	Q(S1M/CM2)	QS(8TU/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
1	201	317.9	566.8	0.037	0.032	14.020	12.354	8.2583E-06	8.7105E-06	1.558
2	202	317.3	571.1	0.132	0.116	13.978	12.317	2.9864E-05	3.1506E-05	0.998
3	203	318.6	573.6	0.563	0.496	13.954	12.295	1.2752E-04	1.3455E-04	0.835
4	204	319.3	574.7	0.680	0.600	13.943	12.286	1.5435E-04	1.6286E-04	0.359
5	205	319.7	575.5	0.872	0.768	13.934	12.278	1.9796E-04	2.0887E-04	-0.083
6	206	320.5	576.9	0.993	0.875	13.921	12.266	2.2572E-04	2.3818E-04	-0.180
7	207	320.5	576.9	1.135	1.000	13.922	12.267	2.5782E-04	2.7205E-04	0.124
8	208	321.4	578.5	1.362	1.200	13.906	12.253	3.0981E-04	3.2694E-04	0.184
9	209	321.4	578.5	1.353	1.193	13.905	12.252	3.0794E-04	3.2497E-04	0.227
10	210	321.1	578.0	1.284	1.132	13.911	12.257	2.9205E-04	3.0818E-04	0.227

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.8139E-01 (SLUGS/FT2-SEC)

PROBE NO. = 1

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION APES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10
 RE/METER 4.5645E C6
 RE/FT 1.3912E 06
 REL LENGTH(METER) 4.1737E 06
 REL LENGTH(FT) 4.1737E 06
 P(A)M 4.47
 PT(PSI) 212.72
 TT(DEG K) 1130.2
 TT(DEG R) 2034.4
 HT(JOULE/KG) 1.1949E 06
 HT(LB/FT/LBM) 513.85
 RS(METER) 0.3048
 RS(FT) 1.0000
 HAM/HT 1.000
 HAM/HT 1.000

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.907)	H/HS(0.874)
11	301	0.270	-0.0000	-0.0000	-0.0000	-0.0000	36	226	0.270	0.0075	0.0075	0.0086	0.0091
12	302	0.270	-0.0000	-0.0000	-0.0000	-0.0000	37	227	0.269	0.0034	0.0034	0.0039	0.0042
13	303	0.268	-0.0000	-0.0000	-0.0000	-0.0000	38	228	0.268	0.0019	0.0019	0.0021	0.0022
14	304	0.270	-0.0000	-0.0000	-0.0000	-0.0000	39	229	0.267	0.0010	0.0010	0.0012	0.0012
15	305	0.269	-0.0000	-0.0000	-0.0000	-0.0000	40	230	0.267	-0.0002	-0.0002	-0.0002	-0.0002
16	306	0.269	-0.0000	-0.0000	-0.0000	-0.0000	41	231	0.266	-0.0005	-0.0005	-0.0006	-0.0007
17	307	0.269	-0.0000	-0.0000	-0.0000	-0.0000	42	232	0.267	-0.0002	-0.0002	-0.0002	-0.0002
18	308	0.269	-0.0000	-0.0000	-0.0000	-0.0000	43	233	0.267	-0.0000	-0.0000	-0.0000	-0.0000
19	309	0.269	-0.0000	-0.0000	-0.0000	-0.0000	44	234	0.268	0.0006	0.0006	0.0007	0.0007
20	310	0.269	-0.0000	-0.0000	-0.0000	-0.0000	45	235	0.268	0.0015	0.0015	0.0018	0.0019
21	311	0.269	-0.0000	-0.0000	-0.0000	-0.0000	46	236	0.269	0.0029	0.0029	0.0033	0.0035
22	312	0.270	-0.0000	-0.0000	-0.0000	-0.0000	47	237	0.270	0.0097	0.0097	0.0111	0.0117
23	313	0.269	-0.0000	-0.0000	-0.0000	-0.0000	48	238	0.270	0.0425	0.0425	0.0487	0.0514
24	314	0.269	-0.0000	-0.0000	-0.0000	-0.0000	49	239	0.270	0.0692	0.0692	0.0793	0.0837
25	315	0.269	-0.0000	-0.0000	-0.0000	-0.0000	50	240	0.271	0.0773	0.0773	0.0886	0.0934
26	316	0.270	-0.0000	-0.0000	-0.0000	-0.0000	51	241	0.270	0.0975	0.0975	0.1122	0.1184
27	317	0.270	-0.0000	-0.0000	-0.0000	-0.0000	52	242	0.271	0.1036	0.1036	0.1187	0.1252
28	318	0.270	-0.0000	-0.0000	-0.0000	-0.0000	53	243	0.271	0.0998	0.0998	0.1144	0.1206
29	319	0.269	-0.0000	-0.0000	-0.0000	-0.0000	54	244	0.271	0.0946	0.0946	0.1085	0.1144
30	221	0.271	0.0734	0.0734	0.0642	0.0886	55	245	0.271	0.0962	0.0962	0.1103	0.1163
31	222	0.271	0.0788	0.0788	0.0904	0.0953	56	246	0.271	0.0977	0.0977	0.1120	0.1181
32	223	0.273	0.0788	0.0788	0.0759	0.0800	57	247	0.271	0.1211	0.1211	0.1388	0.1464
33	224	0.272	0.0662	0.0662	0.0759	0.0800	58	248	0.270	0.1277	0.1277	0.1464	0.1544
34	225	0.272	0.0512	0.0512	0.0586	0.0618	59	249	0.270	0.1418	0.1418	0.1625	0.1713
35	225	0.271	0.0268	0.0268	0.0307	0.0324	60	250	0.270	0.1682	0.1682	0.1928	0.2033

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10 RE/METER 4.5645E 06 REL LENGTH(METER) 0.914 PT(LAM) 14.67 TT(DEG K) 1130.2 HT(JOULE/KG) 1.1949E 06 TEST NO. 158
MACH 5.10 RE/FT 1.3912E 06 REL LENGTH(FT) 3.000 PT(PSI) 212.72 TT(DEG R) 2034.4 MT(BTU/LAM) 513.85 RS(METER) 0.33048 RS(FT) 1.0800 HAM/HT 1.000 RUN NO. 81

Table with columns: CHAM, I/C, TW(DEG K), TW(DEG R), Q(W/CM2), Q(BTU/FT2-SEC), Q(SLW/CM2), Q(S(BTU/FT2-SEC)), ST(I0.87..), ST(I0.9071), TIME(SEC). Rows 11-60.

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.7486E-01 (SLUGS/FT2-SEC)

PROBE NO. 2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***														
MACH 5.10					MACH 5.10					MACH 5.10				
CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	REL	LENGTH(FT)	PI(ATM)	TT(DEC K)	MT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	RS(FT)	H/HS(1.000)
61	276	0.265	-0.0004	-0.0004	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000	158	0.1010	0.1157
62	277	0.266	-0.0000	-0.0000	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000	81	0.1010	0.1221
63	278	0.266	0.0010	0.0010	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000		0.1037	0.1281
64	279	0.267	0.0056	0.0056	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000		0.1166	0.1254
65	280	0.265	0.0348	0.0348	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000		0.1118	0.1410
66	281	0.268	0.0646	0.0646	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000		0.1118	0.1353
67	282	0.269	0.0941	0.0941	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000		0.1411	0.1708
68	283	0.270	0.1034	0.1034	4.0211E 06	3.000	14.47	1155.4	1.2242E 06	0.3048	1.000		0.1610	0.1948

MACH		RESEARCH CENTER		MOFFETT FIELD CALIF.		*** PRELIMINARY DATA ***		TEST NO.	81	
5.10		NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES		TT(DEG K)		RS(METER)		158	81	
MACH		REL		PT(ATM)		HT(JOULE/KG)		158	81	
5.10		4.0211E 06		1.47		1.2242E 06		158	81	
RE/FT		REL		PT(PSI)		HT(BTU/LBM)		158	81	
1.3404E 06		4.0211E 06		212.72		526.43		158	81	
RE/FT		REL		Q(BTU/FT2-SEC)		QS(BTU/FT2-SEC)		158	81	
1.3404E 06		4.0211E 06		212.72		526.43		158	81	
CHAN	T/C	TM(DEG K)	TM(DEG R)	Q(W/CM2)	Q(SLUGS/FT2-SEC)	QS(W/CM2)	QS(SLUGS/FT2-SEC)	ST(0.907)	ST(0.874)	TIME(SEC)
61	276	323.4	582.1	-0.007	-0.006	14.839	13.075	-1.4325E-06	-1.5102E-06	1.261
62	277	323.7	582.6	-0.000	-0.000	14.834	13.071	-4.7434E-08	-5.0006E-08	18.151
63	278	324.4	583.8	0.014	0.013	14.822	13.060	1.1473E-06	3.3181E-06	-0.007
64	279	325.2	585.6	0.083	0.074	14.805	13.045	1.8394E-05	1.9394E-05	0.590
65	280	326.0	588.4	0.517	0.455	14.856	13.090	1.1353E-04	1.1968E-04	0.585
66	281	327.0	589.6	0.955	0.841	14.775	13.019	2.1096E-04	2.2246E-04	-0.175
67	282	328.2	590.8	1.388	1.223	14.753	13.000	3.0724E-04	3.2400E-04	-0.095
68	283	329.5	593.0	1.523	1.342	14.732	12.981	3.3753E-04	3.5598E-04	0.175
69	284	330.2	594.3	1.486	1.310	14.719	12.969	3.2974E-04	3.4778E-04	0.163
70	285	331.5	596.8	1.556	1.371	14.695	12.948	3.4587E-04	3.6483E-04	0.157
71	286	331.9	597.4	1.523	1.342	14.689	12.943	3.3857E-04	3.5714E-04	0.160
72	287	332.6	598.7	1.711	1.508	14.676	12.932	3.8083E-04	4.0174E-04	0.147
73	288	334.3	601.8	1.638	1.443	14.646	12.905	3.6524E-04	3.8534E-04	0.135
74	289	335.7	604.3	2.063	1.818	14.622	12.864	4.6092E-04	4.8633E-04	0.140
75	290	334.7	602.4	2.356	2.076	14.640	12.900	5.2579E-04	5.5474E-04	0.134

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.6865E-01 (SLUGS/FT2-SEC)

PROBE NO. = 3