

A DATA COMPILATION FOR A SUPERSONIC
TURBULENT BOUNDARY LAYER UNDER CONDITIONS
OF AN ADVERSE PRESSURE GRADIENT

By

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ABSTRACT

This report presents mean flow and normal-wire turbulence measurements for a compressible turbulent boundary layer over a flat plate, under conditions of an adverse pressure gradient. The pressure gradient matches that of Model II tested by Taylor et al. (Ref. 1) and Jayaram et al. (Ref. 2) (See Fig. 4). The experiments were performed at an upstream freestream Mach number of 2.9.

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NOMENCLATURE

C_f	Skin friction coefficient obtained from Preston Probe
$C_{f_{log}}$	Skin friction coefficient obtained by best fit of data to log-law
M	Mach number
P	Pressure
P_T	Pitot pressure
R	287.227 (Gas constant for air)
Re/m	Reynolds number/meter
U	Streamwise velocity
U_τ	Friction velocity
γ	1.4 (specific heat ratio for air)
δ	Boundary layer thickness as estimated by the best fit of the data to the wall-wake law
δ_{95}	Boundary layer thickness, see Eqn.(2)
δ^*, δ_w^*	Boundary layer displacement thickness, see Eqns. (3) & (5)
θ, θ_w	Boundary layer momentum thickness, see Eqns. (4) & (6)
ρ	Density
τ	Shear stress
$\langle \rangle$	rms of fluctuation quantities

Subscripts

o	tunnel stagnation conditions
h	conditions during hot-wire survey
m	conditions during mean flow survey
ref	upstream freestream conditions based on upstream freestream Mach number of 2.916 and tunnel stagnation conditions

s static
 t total
 w wall; exceptions are δ^* and θ_w , see Eqns. (5) & (6)
 δ conditions @ δ

Superscripts

i inviscid values calculated using local static pressure, tunnel
 stagnation pressure and T_t given by Eqn. (1)
 ' denotes fluctuation quantities

The program printout in Appendix H uses the following convention:

$$UT = U_{th}$$

$$RHOW = \rho_{wh}$$

$$TW = T_{wh}$$

$$DELTA = \delta$$

$$UREF = U_{ref\ h}$$

$$Y/DELTA = Y/\delta$$

$$\frac{\langle (\rho u)'' \rangle}{RHO * U} = \frac{\langle (\rho u)' \rangle}{\rho U}$$

$$\frac{\langle (\rho u)'' \rangle}{RHOW * UT} = \frac{\langle (\rho u)' \rangle}{\rho_{wh} * U_{th}}$$

$$\frac{U}{UREF} = \left(\frac{U}{U_{ref\ m}} \right)$$

$$\frac{\langle U'' \rangle}{U_T} = \frac{\langle u' \rangle}{U_{th}}$$

$$\frac{RHO * \langle u'' \rangle^{**2}}{RHOW * UT^{**2}} = \left(\frac{\rho}{\rho_{w\ m}} \right) \frac{\langle u' \rangle^2}{U_{th}^2}$$

1. INTRODUCTION

The effect of extra strain rates on the behavior of turbulent boundary layers has been extensively studied at the Gas Dynamics Laboratory. This experiment was designed to study the effects of compression on a high Reynolds number, fully developed flat plate turbulent boundary layer on the tunnel floor (Fig. 1).

The model used to impose an adverse pressure gradient on the tunnel floor was a contoured plate in the freestream (see Fig. 2). This plate was designed using the method of characteristics and then modified to obtain the desired pressure distribution. The coordinates of the contoured surface are given in Appendix A. Two-dimensionality of the flow was checked by spanwise surveys of the mean flow quantities and by oil flow visualization on the tunnel floor. The results were satisfactory.

2. MEASUREMENTS

Mean flow measurements included tunnel floor static pressure surveys, and vertical surveys of Pitot pressure, static pressure and total temperature at streamwise and spanwise locations. Streamwise and spanwise Preston probe surveys were also done.

Turbulence measurements were restricted to normal-wire surveys. A DISA 55M10 constant-temperature anemometer was used, and the hot-wire probes were constructed using 5 micron diameter tungsten wires. The wires were first copper plated to 50-100 micron diameter, soft soldered onto the probe prongs, and then etched using dilute sulphuric acid to expose an active portion of $\sim 0.8\text{mm}$ in length. The wires were slackened slightly to avoid strain-gauging.

The hot-wires were calibrated in a small, 2" x 2.75" Mach 3 pilot tunnel. The wires were calibrated for mass flow sensitivity by changing the stagnation pressure. Under operating conditions, the system frequency response, as deduced from a square wave test, was typically 125kHz or better. The operating overheat ratio was varied from 1.0-1.3. At these overheat ratios, the contribution of the temperature fluctuations to the total signal is small and it was therefore neglected. Note that the calibration is valid only when the local normal Mach number exceeds 1.2 (Ref. 3). The hot-wire technique is described in further detail by Smits et al. (Ref. 3).

3. DATA REDUCTION AND PRESENTATION

This report has been prepared to give other researchers ready access to our data, and for reasons of consistency we follow the general layout and notation used by Fernholz and Finley (Ref. 4). The data are also available on magnetic tape upon request from the authors.

Tunnel floor static pressure surveys, vertical surveys of static pressure, pitot pressure and total temperature at streamwise and spanwise locations are presented in Appendices B, C, D and E, respectively.

In general, the total temperature surveys indicate a linear 4% increase from freestream to wall surface (see Fig. 3). In view of this small variation, a complete set of total temperature surveys was not obtained and the total temperature was approximated by the following linear variation:

$$\begin{aligned} T_t &= T_o \times (1.0 + 0.04 \times (1.0 - (Y/0.030))) & Y < 0.03m \\ T_t &= T_o & Y > 0.03m \end{aligned} \quad (1)$$

For each point where a Pitot pressure reading was available, the static pressure was obtained by linearly interpolating the corresponding static pressure survey. Using the assumed total temperature for that point, and the tunnel stagnation pressure and stagnation temperature, all mean flow parameters may be calculated. These parameters are listed along with the Pitot pressures (Appendix D).

By fitting the Van-Driest transformed (Ref. 6) velocity profile to the log-law, the skin friction coefficient was obtained and is presented in Appendix G. The skin friction coefficient was also obtained from the Preston probe using the Hopkins-Keener calibration scheme (Ref. 7) and is presented in Appendix F. The Hopkins-Keener calibration scheme for C_f was arrived at by fitting a curve to Preston tube data in zero pressure gradient flows. In the present case, there are pressure gradients normal to the wall and also in the streamwise direction. A further complication is the presence of a non-uniform freestream. Due to these effects, there is some uncertainty in determining the appropriate boundary layer edge conditions. Therefore, "effective-edge" conditions, calculated from tunnel stagnation pressure and local tunnel floor static pressure, as suggested by Settles (Ref. 8), were used. For a more detailed discussion on both these techniques see Ref. 1.

Various boundary layer length scales are presented in Appendix G. δ_{95} has been obtained by the best fit of the mean velocity to the wall-wake profile (Ref. 9). δ_{95} has been defined as the point where the mass flow rate reaches 95% of the inviscid mass flow rate, i.e. at δ_{95} :

$$\rho * u = 0.95 * \rho' * u' \quad (2)$$

The integral parameters given in Appendix G (δ^* , θ , δ_w^* and θ_w) are defined as follows:

$$\delta^* = \int_0^{\infty} \left(1 - \frac{\rho u}{\rho_{\delta} u_{\delta}}\right) \cdot dy \quad (3)$$

$$\theta = \int_0^{\infty} \frac{\rho u}{\rho_{\delta} u_{\delta}} \left(1 - \frac{u}{u_{\delta}}\right) \cdot dy \quad (4)$$

$$\delta_w^* = \frac{1}{\rho_w \frac{i}{u_w} \frac{i}{u_w}} \int_0^{\infty} (\rho^i u^i - \rho u) \cdot dy \quad (5)$$

$$\theta_w = \frac{1}{\rho_w \frac{i}{(u_w^i)^2}} \int_0^{\infty} u(u^i - u) \cdot dy \quad (6)$$

Using T_o , Y , (ρu) , $\langle(\rho u)'\rangle/(\rho u)$ as obtained from the hot-wire, and the mean flow survey data, the following are calculated and presented in Appendix H.

$$U_{Th}, \rho_{wh}, T_{wh}, \delta, U_{refh}, Y, Y/\delta, \langle(\rho u)'\rangle/(\rho_{wh} u_{Th}),$$

$$u/U_{ref}, M, \langle u' \rangle / u_{Th}, \rho_h \langle u' \rangle^2 / (\rho_{wh} u_{Th}^2).$$

Values of (u/U_{ref}) , M and (ρ_h/ρ_{wh}) are interpolated from the mean flow data.

$$u_{Th} = \sqrt{\tau_w / \rho_{wh}}$$

$$\text{where } \tau_w = 0.5 * \gamma * C_{f_{log}} * P_{s\delta} * M_{\delta}^2$$

$$\text{and } \rho_{wh} = P_{swm} / (R * T_{wh})$$

$$\text{and } T_{wh} = 1.04 * T_{oh}$$

$$\langle \rho u \rangle' / (\rho_{wh} * U_{th}) = (\langle \rho u \rangle' / (\rho u)) * (\rho u)_h / (\rho_{wh} * U_{th})$$

$$\langle u \rangle' / U_{th} = (\langle u \rangle' / U_h) * \left(\frac{U}{U_{ref\ m}} \right) * \frac{U_{refh}}{U_{th}}$$

where $\langle u \rangle' / U_h = (\langle \rho u \rangle' / (\rho u))_h / \sqrt{(1 + 2R_{\rho u}(\gamma - 1)M^2 + ((\gamma - 1)M^2)^2)}$

by using the "Strong Reynolds Analogy" and assuming $R_{\rho u}$ to be 0.8 (Ref. 10)

$$\rho_h \langle u \rangle'^2 / (\rho_{wh} u_{th}^2) = \left(\frac{\rho}{\rho_w} \right) * \left(\frac{\langle u \rangle'}{u_{th}} \right)^2$$

4. UNCERTAINTIES

The mean flow measurement uncertainties are given in Ref. 1 and are reproduced below. The uncertainty involved with the hot-wire technique is given in Ref. 5 and is also given below.

P_{sw}	= +/- 2%	M	= +/- 3%	
PT	= +/- 2%	U	= +/- 5%	δ^* = +/- 10%
P_s	= +/- 4%	Gr	= +/- 15%	θ = +/- 15%
T_t	= +/- 2%	$\langle (\rho u) \rangle'$	= +/- 10%	

5. APPARATUS, TEST CONDITIONS AND DATA ACQUISITION SYSTEM

The experimental conditions, wind-tunnel description and the mean flow data acquisition system are described in Ref. 1. The turbulence data acquisition system is described in Ref. 5. A summary is given below.

All measurements were made in the Princeton University 203 mm x 203 mm (8" x 8") blow-down supersonic wind tunnel (see Fig. 1). A typical data run lasted about a minute and the tunnel stagnation temperature fell by 8-10 deg K during this time. The upstream rms freestream mass-flow fluctuation level about one percent of the mean mass flow rate.

The Test Conditions are:-

P_o	= 0.688E+06
T_o	~ 270 ~ 250
$P_{sw}(\text{upstream})$	= 0.213E+05
$M(\text{upstream freestream})$	= 2.916
$U(\text{upstream freestream})$	= 593.2 ~ 562.6
$T(\text{upstream freestream})$	= 102.9 ~ 92.6
$\rho(\text{upstream freestream})$	= 0.72 ~ .80
Re/m	= 5.9E+07 ~ 6.9 E+07

Fluctuating signals were digitized at 50kHz and/or 500kHz (using a Preston GMAD4 and/or GMAD1 A/D converter) and stored on-line in the memory of an HP1000 minicomputer for further processing.

6. THE COORDINATE SYSTEM

Units: All quantities are measured in SI units.

The coordinate system is given below:

X, Y and Z form a right handed coordinate system.

X Measured in meters along the streamwise direction.
 X=0 corresponds to the second section joint, 1.683m from the throat.
 Uncertainty in X = +/- 0.0005.

- Y Measured in meters normal to the tunnel floor.
Y=0 corresponds to the wall.
Uncertainty in Z = ± 0.00012 .
- Z Measured in meters, in a spanwise direction.
Z=0 corresponds to the tunnel centerline.
Uncertainty in Z = ± 0.0005 .

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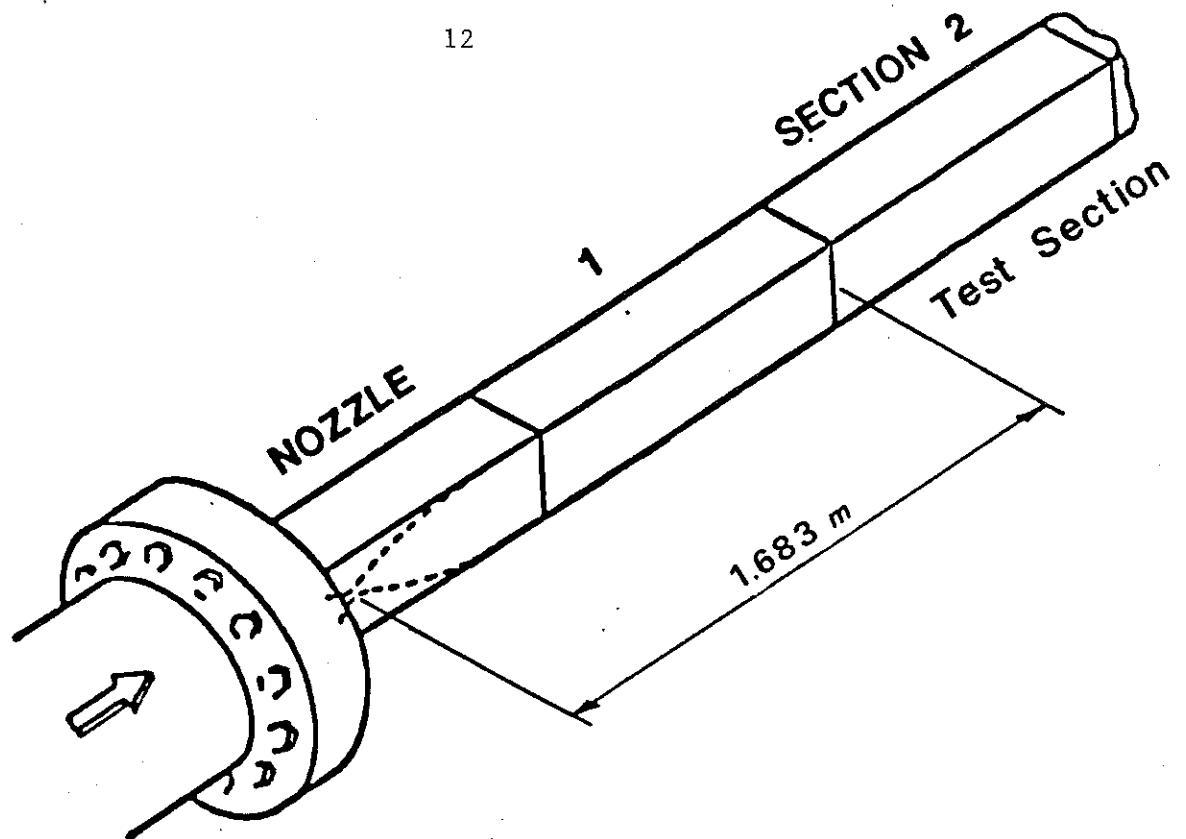


Figure 1. Sketch of the wind tunnel.

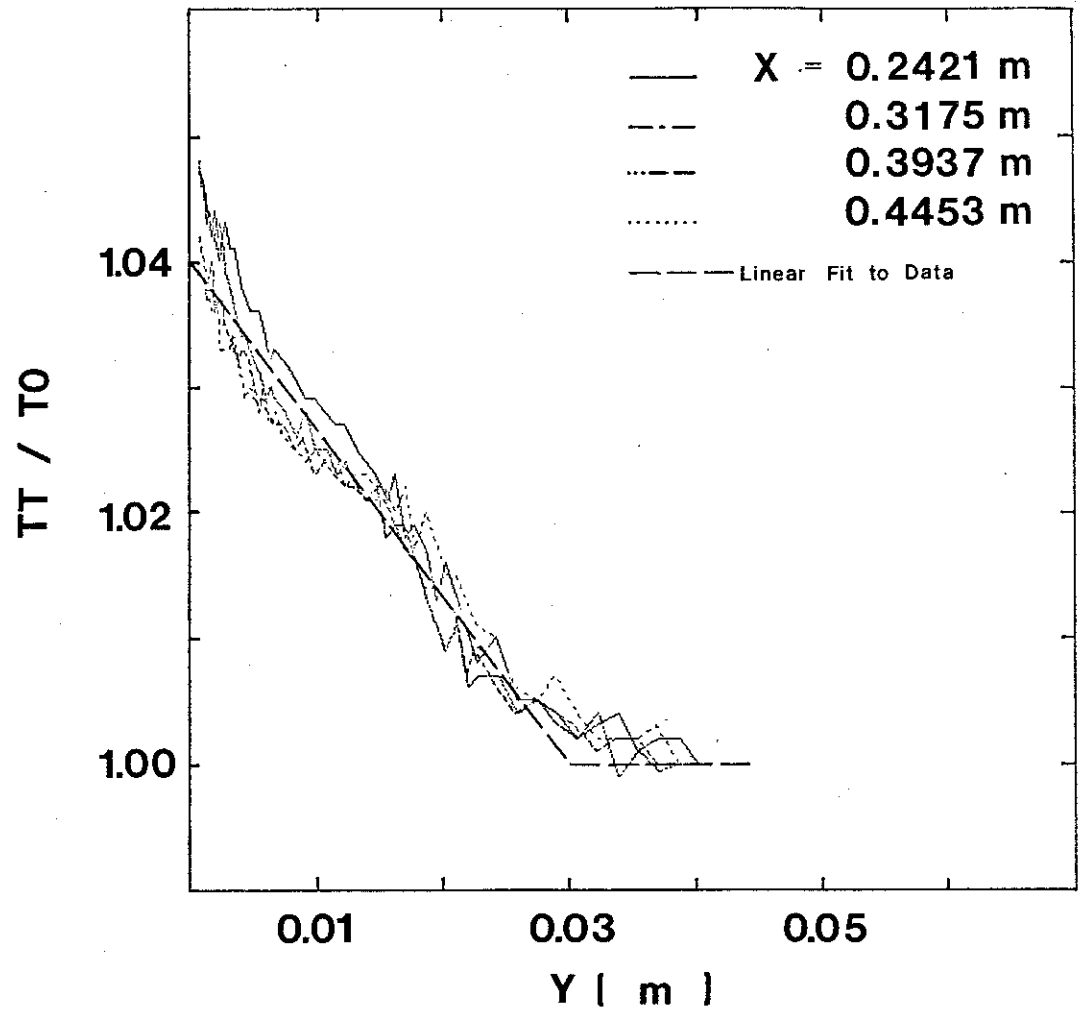


Figure 3. Measured and approximated total temperature profiles within the boundary layer, at various streamwise locations. All measurement locations are on the tunnel centerline ($Z = 0.0$).

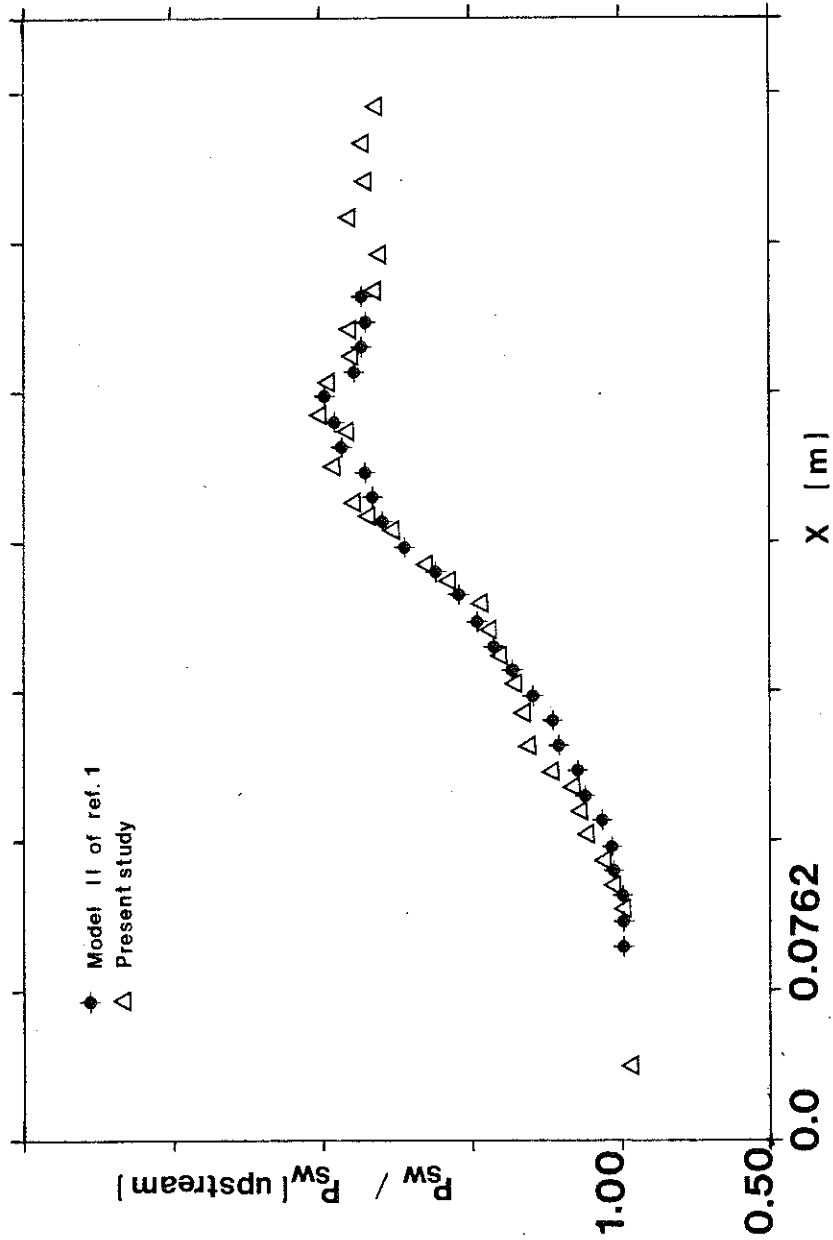


Figure 4. Comparison of tunnel Q_L wall static pressures for the present study and Model II of Ref. 1.

APPENDIX A
CONTOURED SURFACE COORDINATES

CONTOURED SURFACE COORDINATES.

X-CON (INCHES)	Y-CON (INCHES)
0.0000	0.0000
.1000	.0000
.2000	.0006
.3000	.0012
.4000	.0018
.5000	.0025
.6000	.0032
.7000	.0039
.8000	.0047
.9000	.0055
1.0000	.0064
1.1000	.0073
1.2000	.0082
1.3000	.0091
1.4000	.0101
1.5000	.0111
1.6000	.0122
1.7000	.0133
1.8000	.0144
1.9000	.0156
2.0000	.0168
2.1000	.0180
2.2000	.0193
2.3000	.0207
2.4000	.0220
2.5000	.0235
2.6000	.0249
2.7000	.0265
2.8000	.0281
2.9000	.0297
3.0000	.0314
3.1000	.0332
3.2000	.0350
3.3000	.0369
3.4000	.0389
3.5000	.0409
3.6000	.0430
3.7000	.0452
3.8000	.0474
3.9000	.0497
4.0000	.0521
4.1000	.0546
4.2000	.0572
4.3000	.0598
4.4000	.0625
4.5000	.0653
4.6000	.0682
4.7000	.0712
4.8000	.0743
4.9000	.0775
5.0000	.0807

X-CON (INCHES)	Y-CON (INCHES)
5.1000	.0840
5.2000	.0875
5.3000	.0910
5.4000	.0946
5.5000	.0983
5.6000	.1021
5.7000	.1060
5.8000	.1100
5.9000	.1141
6.0000	.1183
6.1000	.1225
6.2000	.1269
6.3000	.1313
6.4000	.1359
6.5000	.1405
6.6000	.1453
6.7000	.1501
6.8000	.1550
6.9000	.1600
7.0000	.1651
7.1000	.1702
7.2000	.1755
7.3000	.1808
7.4000	.1863
7.5000	.1918
7.6000	.1974
7.7000	.2030
7.8000	.2088
7.9000	.2146
8.0000	.2205
8.1000	.2265
8.2000	.2325
8.3000	.2387
8.4000	.2448
8.5000	.2511
8.6000	.2574
8.7000	.2638
8.8000	.2703
8.9000	.2768
9.0000	.2834
9.1000	.2900
9.2000	.2967
9.3000	.3035
9.4000	.3103
9.5000	.3171
9.6000	.3240
9.7000	.3310
9.8000	.3380
9.9000	.3450
10.0000	.3521
10.1000	.3593

X-CON (INCHES)

Y-CON (INCHES)

10.2000	.3665
10.3000	.3737
10.4000	.3809
10.5000	.3882
10.6000	.3955
10.7000	.4029
10.8000	.4102
10.9000	.4176
11.0000	.4250
11.1000	.4325
11.2000	.4399
11.3000	.4474
11.4000	.4548
11.5000	.4623
11.6000	.4698
11.7000	.4773
11.8000	.4848
11.9000	.4923
12.0000	.4998
12.1000	.5073
12.2000	.5148
12.3000	.5223
12.4000	.5298
12.5000	.5372
12.6000	.5447
12.7000	.5521
12.8000	.5595
12.9000	.5669
13.0000	.5742
13.1000	.5816
13.2000	.5889
13.3000	.5961
13.4000	.6034
13.5000	.6106
13.6000	.6177
13.7000	.6248
13.8000	.6319
13.9000	.6390
14.0000	.6459
14.1000	.6529
14.2000	.6598
14.3000	.6666
14.4000	.6734
14.5000	.6801
14.6000	.6867
14.7000	.6933
14.8000	.6998
14.9000	.7063
15.0000	.7127
15.1000	.7190
15.2000	.7252

X-CON (INCHES) Y-CON (INCHES)

15.3000	.7313
15.4000	.7374
15.5000	.7434
15.6000	.7493
15.7000	.7551
15.8000	.7609
15.9000	.7665
16.0000	.7721
16.1000	.7775
16.2000	.7829
16.3000	.7881
16.4000	.7933
16.5000	.7983
16.6000	.8032
16.7000	.8081
16.8000	.8128
16.9000	.8174
17.0000	.8219
17.1000	.8262
17.2000	.8305
17.3000	.8346
17.4000	.8386
17.5000	.8424
17.6000	.8462
17.7000	.8498
17.8000	.8532
17.9000	.8565
18.0000	.8598
18.1000	.8629
18.2000	.8657
18.3000	.8685
18.4000	.8711
18.5000	.8735
18.6000	.8758
18.7000	.8780
18.8000	.8799
18.9000	.8818
19.0000	.8834
19.1000	.8849
19.2000	.8863
19.3000	.8874
19.4000	.8884
19.5000	.8892
19.6000	.8899
19.7000	.8903
19.8000	.8906
19.9000	.8907
20.0000	.8906
20.1000	.8903
20.2000	.8898
20.3000	.8894

X-CON (INCHES)	Y-CON (INCHES)
20.4000	.8890
20.5000	.8886
20.6000	.8881
20.7000	.8876
20.8000	.8872
20.9000	.8867
21.0000	.8863
21.1000	.8858
21.2000	.8854
21.3000	.8849
21.4000	.8844
21.5000	.8840
21.6000	.8835
21.7000	.8831
21.8000	.8826
21.9000	.8822
22.0000	.8817
22.1000	.8813
22.2000	.8808
22.3000	.8804
22.4000	.8799
22.5000	.8795
22.6000	.8790
22.7000	.8786
22.8000	.8781
22.9000	.8777
23.0000	.8772
23.1000	.8768
23.2000	.8763
23.3000	.8759
23.4000	.8754
23.5000	.8750
23.6000	.8745
23.7000	.8741
23.8000	.8736
23.9000	.8731
24.0000	.8727

APPENDIX B
TUNNEL FLOOR STATIC PRESSURE SURVEYS

SURFACE PRESSURE DISTRIBUTION ON TUNNEL FLOOR

AVERAGE STAGNATION PRESSURE = 0.6884E+06

AVERAGE STAGNATION TEMPERATURE = 278.3

NUMBER OF DATA POINTS = 187

X	Z	Wall Static Pressure
0.3810E-01	0.2540E-01	0.2145E+05
0.9368E-01	0.2540E-01	0.2240E+05
0.1064	0.2540E-01	0.2215E+05
0.1191	0.2540E-01	0.2232E+05
0.1318	0.2540E-01	0.2279E+05
0.1381	0.2540E-01	0.2252E+05
0.1445	0.2540E-01	0.2481E+05
0.1508	0.2540E-01	0.2593E+05
0.1572	0.2540E-01	0.2606E+05
0.1635	0.2540E-01	0.2663E+05
0.1699	0.2540E-01	0.2561E+05
0.1762	0.2540E-01	0.2578E+05
0.1826	0.2540E-01	0.2631E+05
0.1889	0.2540E-01	0.2643E+05
0.1953	0.2540E-01	0.2758E+05
0.2016	0.2540E-01	0.2790E+05
0.2080	0.2540E-01	0.2813E+05
0.2143	0.2540E-01	0.2853E+05
0.2207	0.2540E-01	0.2940E+05
0.2258	0.2540E-01	0.2945E+05
0.2308	0.2540E-01	0.3067E+05
0.2359	0.2540E-01	0.3079E+05
0.2410	0.2540E-01	0.3132E+05
0.2461	0.2540E-01	0.3104E+05
0.2540	0.2540E-01	0.3179E+05
0.2603	0.2540E-01	0.3291E+05
0.2667	0.2540E-01	0.3259E+05
0.2731	0.2540E-01	0.3314E+05
0.2794	0.2540E-01	0.3488E+05
0.2858	0.2540E-01	0.3583E+05
0.2921	0.2540E-01	0.3732E+05
0.2984	0.2540E-01	0.3852E+05
0.3048	0.2540E-01	0.3770E+05
0.3111	0.2540E-01	0.3812E+05
0.3175	0.2540E-01	0.4084E+05
0.3239	0.2540E-01	0.4251E+05
0.3365	0.2540E-01	0.4553E+05
0.3492	0.2540E-01	0.4381E+05
0.3683	0.2540E-01	0.4291E+05
0.3873	0.2540E-01	0.4341E+05
0.4064	0.2540E-01	0.4376E+05
0.5271	0.0000E+00	0.3997E+05
0.5080	0.0000E+00	0.4049E+05
0.4889	0.0000E+00	0.4029E+05
0.4699	0.0000E+00	0.4161E+05
0.4508	0.0000E+00	0.3947E+05
0.4318	0.0000E+00	0.4004E+05
0.4128	0.0000E+00	0.4156E+05
0.4000	0.0000E+00	0.4133E+05
0.3873	0.0000E+00	0.4366E+05
0.3810	0.0000E+00	0.4305E+05
0.3747	0.0000E+00	0.4382E+05
0.3683	0.0000E+00	0.4380E+05
0.3620	0.0000E+00	0.4157E+05
0.3556	0.0000E+00	0.4243E+05
0.3492	0.0000E+00	0.4294E+05

X	Z	Wall Static Pressure
0.3429	0.0000E+00	0.4296E+05
0.3239	0.0000E+00	0.4113E+05
0.3175	0.0000E+00	0.3940E+05
0.3111	0.0000E+00	0.3775E+05
0.3048	0.0000E+00	0.3735E+05
0.2921	0.0000E+00	0.3598E+05
0.2858	0.0000E+00	0.3416E+05
0.2794	0.0000E+00	0.3372E+05
0.2731	0.0000E+00	0.3209E+05
0.2667	0.0000E+00	0.3132E+05
0.2603	0.0000E+00	0.3119E+05
0.2540	0.0000E+00	0.3121E+05
0.2476	0.0000E+00	0.3055E+05
0.2375	0.0000E+00	0.2945E+05
0.2324	0.0000E+00	0.2978E+05
0.2273	0.0000E+00	0.2890E+05
0.2222	0.0000E+00	0.2890E+05
0.2172	0.0000E+00	0.2910E+05
0.2121	0.0000E+00	0.2820E+05
0.2057	0.0000E+00	0.2848E+05
0.1994	0.0000E+00	0.2844E+05
0.1930	0.0000E+00	0.2760E+05
0.1867	0.0000E+00	0.2679E+05
0.1803	0.0000E+00	0.2536E+05
0.1740	0.0000E+00	0.2492E+05
0.1676	0.0000E+00	0.2476E+05
0.1613	0.0000E+00	0.2478E+05
0.1549	0.0000E+00	0.2443E+05
0.1422	0.0000E+00	0.2291E+05
0.1295	0.0000E+00	0.2230E+05
0.1168	0.0000E+00	0.2153E+05
0.3810E-01	0.0000E+00	0.2124E+05
0.3810E-01	-.2540E-01	0.2065E+05
0.1318	-.2540E-01	0.2124E+05
0.1445	-.2540E-01	0.2379E+05
0.1572	-.2540E-01	0.2544E+05
0.1635	-.2540E-01	0.2606E+05
0.1699	-.2540E-01	0.2544E+05
0.1762	-.2540E-01	0.2551E+05
0.1826	-.2540E-01	0.2698E+05
0.1889	-.2540E-01	0.2777E+05
0.1953	-.2540E-01	0.2804E+05
0.2016	-.2540E-01	0.2781E+05
0.2080	-.2540E-01	0.2829E+05
0.2131	-.2540E-01	0.2851E+05
0.2181	-.2540E-01	0.2917E+05
0.2232	-.2540E-01	0.2966E+05
0.2283	-.2540E-01	0.3056E+05
0.2334	-.2540E-01	0.3061E+05
0.2476	-.2540E-01	0.3160E+05
0.2603	-.2540E-01	0.3306E+05
0.2794	-.2540E-01	0.3448E+05
0.2921	-.2540E-01	0.3691E+05
0.2984	-.2540E-01	0.3835E+05
0.3048	-.2540E-01	0.3835E+05
0.3175	-.2540E-01	0.4103E+05
0.3239	-.2540E-01	0.4205E+05
0.3302	-.2540E-01	0.4349E+05
0.3365	-.2540E-01	0.4434E+05

X	Z	Wall Static Pressure
0.3429	-.2540E-01	0.4360E+05
0.3492	-.2540E-01	0.4331E+05
0.3556	-.2540E-01	0.4335E+05
0.3620	-.2540E-01	0.4256E+05
0.3683	-.2540E-01	0.4261E+05
0.3747	-.2540E-01	0.4340E+05
0.3810	-.2540E-01	0.4335E+05
0.3873	-.2540E-01	0.4416E+05
0.3937	-.2540E-01	0.4436E+05
0.4064	-.2540E-01	0.4459E+05
0.4128	-.2540E-01	0.4398E+05
0.4191	-.2540E-01	0.4196E+05
0.4254	-.2540E-01	0.4135E+05
0.4318	-.2540E-01	0.4110E+05
0.4381	-.2540E-01	0.4094E+05
0.4445	-.2540E-01	0.4069E+05
0.4572	-.2540E-01	0.4083E+05
0.4699	-.2540E-01	0.4252E+05
0.4826	-.2540E-01	0.4313E+05
0.5016	-.2540E-01	0.4182E+05
0.5207	-.2540E-01	0.4175E+05
0.5334	-.2540E-01	0.4013E+05
0.5334	-.5080E-01	0.4069E+05
0.5271	-.5080E-01	0.4060E+05
0.5143	-.5080E-01	0.4202E+05
0.4889	-.5080E-01	0.4255E+05
0.4826	-.5080E-01	0.4047E+05
0.4762	-.5080E-01	0.4021E+05
0.4699	-.5080E-01	0.4052E+05
0.4636	-.5080E-01	0.4145E+05
0.4572	-.5080E-01	0.4095E+05
0.4508	-.5080E-01	0.4115E+05
0.4445	-.5080E-01	0.4100E+05
0.4381	-.5080E-01	0.4095E+05
0.4318	-.5080E-01	0.4095E+05
0.4254	-.5080E-01	0.4113E+05
0.4191	-.5080E-01	0.4316E+05
0.4128	-.5080E-01	0.4224E+05
0.4064	-.5080E-01	0.4246E+05
0.4000	-.5080E-01	0.4289E+05
0.3937	-.5080E-01	0.4189E+05
0.3873	-.5080E-01	0.4250E+05
0.3810	-.5080E-01	0.4111E+05
0.3747	-.5080E-01	0.4191E+05
0.3683	-.5080E-01	0.4076E+05
0.3620	-.5080E-01	0.4054E+05
0.3556	-.5080E-01	0.4030E+05
0.3492	-.5080E-01	0.4119E+05
0.3429	-.5080E-01	0.4276E+05
0.3365	-.5080E-01	0.4222E+05
0.3239	-.5080E-01	0.4108E+05
0.3111	-.5080E-01	0.3888E+05
0.2984	-.5080E-01	0.3818E+05
0.2794	-.5080E-01	0.3572E+05
0.2603	-.5080E-01	0.3275E+05
0.2476	-.5080E-01	0.3164E+05
0.2330	-.5080E-01	0.2937E+05
0.2280	-.5080E-01	0.2939E+05
0.2229	-.5080E-01	0.2860E+05

X	Z	Wall Static Pressure
0.2178	-.5080E-01	0.2758E+05
0.2127	-.5080E-01	0.2734E+05
0.2076	-.5080E-01	0.2727E+05
0.2013	-.5080E-01	0.2688E+05
0.1949	-.5080E-01	0.2701E+05
0.1886	-.5080E-01	0.2655E+05
0.1822	-.5080E-01	0.2581E+05
0.1759	-.5080E-01	0.2520E+05
0.1695	-.5080E-01	0.2468E+05
0.1568	-.5080E-01	0.2498E+05
0.1441	-.5080E-01	0.2601E+05
0.1314	-.5080E-01	0.2370E+05
0.3810E-01	-.5080E-01	0.2154E+05

APPENDIX C

**VERTICAL SURVEYS OF STATIC PRESSURE AT
STREAMWISE AND SPANWISE LOCATIONS**

STATIC PRESSURE SURVEYS

X = 0.2438
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6889E+06
 AVERAGE STAGNATION TEMPERATURE = 261.7
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1313E-02	0.3050E+05
0.1489E-02	0.3038E+05
0.1858E-02	0.3021E+05
0.1874E-02	0.3022E+05
0.2170E-02	0.3003E+05
0.2386E-02	0.2982E+05
0.2474E-02	0.2954E+05
0.2875E-02	0.2924E+05
0.2835E-02	0.2917E+05
0.3203E-02	0.2884E+05
0.3371E-02	0.2862E+05
0.3836E-02	0.2854E+05
0.4228E-02	0.2865E+05
0.4509E-02	0.2882E+05
0.4885E-02	0.2907E+05
0.5350E-02	0.2932E+05
0.5846E-02	0.2958E+05
0.6223E-02	0.2976E+05
0.6631E-02	0.2992E+05
0.6983E-02	0.3013E+05
0.7288E-02	0.3021E+05
0.8217E-02	0.3030E+05
0.8898E-02	0.3056E+05
0.9747E-02	0.3062E+05
0.1065E-01	0.3054E+05
0.1126E-01	0.3051E+05
0.1223E-01	0.3054E+05
0.1295E-01	0.3055E+05
0.1380E-01	0.3049E+05
0.1468E-01	0.3034E+05
0.1531E-01	0.3046E+05
0.1627E-01	0.3045E+05
0.1699E-01	0.3051E+05
0.1778E-01	0.3049E+05
0.1849E-01	0.3057E+05
0.1941E-01	0.3049E+05
0.2031E-01	0.3073E+05
0.2099E-01	0.3079E+05
0.2178E-01	0.3097E+05
0.2258E-01	0.3106E+05
0.2350E-01	0.3103E+05
0.2509E-01	0.3108E+05
0.2672E-01	0.3158E+05
0.2829E-01	0.3176E+05
0.2992E-01	0.3254E+05
0.3132E-01	0.3314E+05
0.3301E-01	0.3367E+05
0.3461E-01	0.3389E+05
0.3617E-01	0.3351E+05
0.3776E-01	0.3323E+05
0.3937E-01	0.3343E+05
0.4096E-01	0.3338E+05

STATIC PRESSURE SURVEYS
 X = 0.2667
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6883E+06
 AVERAGE STAGNATION TEMPERATURE = 263.8
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1413E-02	0.3229E+05
0.1573E-02	0.3222E+05
0.1693E-02	0.3223E+05
0.2038E-02	0.3211E+05
0.2062E-02	0.3220E+05
0.2438E-02	0.3205E+05
0.2462E-02	0.3208E+05
0.2694E-02	0.3202E+05
0.2999E-02	0.3197E+05
0.3191E-02	0.3200E+05
0.3375E-02	0.3221E+05
0.3824E-02	0.3215E+05
0.4176E-02	0.3232E+05
0.4521E-02	0.3240E+05
0.4881E-02	0.3230E+05
0.5410E-02	0.3219E+05
0.5818E-02	0.3213E+05
0.6170E-02	0.3213E+05
0.6467E-02	0.3217E+05
0.6923E-02	0.3217E+05
0.7380E-02	0.3216E+05
0.8093E-02	0.3231E+05
0.8885E-02	0.3237E+05
0.9782E-02	0.3232E+05
0.1062E-01	0.3232E+05
0.1140E-01	0.3229E+05
0.1215E-01	0.3222E+05
0.1289E-01	0.3206E+05
0.1381E-01	0.3187E+05
0.1468E-01	0.3169E+05
0.1544E-01	0.3154E+05
0.1619E-01	0.3152E+05
0.1688E-01	0.3147E+05
0.1778E-01	0.3173E+05
0.1865E-01	0.3217E+05
0.1944E-01	0.3244E+05
0.2015E-01	0.3264E+05
0.2090E-01	0.3277E+05
0.2180E-01	0.3277E+05
0.2268E-01	0.3267E+05
0.2349E-01	0.3257E+05
0.2510E-01	0.3226E+05
0.2670E-01	0.3202E+05
0.2832E-01	0.3207E+05
0.2990E-01	0.3212E+05
0.3145E-01	0.3180E+05
0.3302E-01	0.3150E+05
0.3453E-01	0.3114E+05
0.3615E-01	0.3127E+05
0.3772E-01	0.3150E+05
0.3932E-01	0.3178E+05
0.4083E-01	0.3217E+05

STATIC PRESSURE SURVEYS

X = 0.2929
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6894E+06
 AVERAGE STAGNATION TEMPERATURE = 264.3
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1413E-02	0.3624E+05
0.1621E-02	0.3618E+05
0.1821E-02	0.3615E+05
0.2038E-02	0.3605E+05
0.2222E-02	0.3592E+05
0.2454E-02	0.3592E+05
0.2654E-02	0.3589E+05
0.2831E-02	0.3587E+05
0.3047E-02	0.3577E+05
0.3255E-02	0.3583E+05
0.3439E-02	0.3591E+05
0.3776E-02	0.3603E+05
0.4104E-02	0.3604E+05
0.4665E-02	0.3600E+05
0.5105E-02	0.3600E+05
0.5466E-02	0.3587E+05
0.5770E-02	0.3570E+05
0.6106E-02	0.3569E+05
0.6691E-02	0.3541E+05
0.7123E-02	0.3545E+05
0.7428E-02	0.3539E+05
0.8197E-02	0.3532E+05
0.8942E-02	0.3529E+05
0.9911E-02	0.3515E+05
0.1051E-01	0.3513E+05
0.1143E-01	0.3496E+05
0.1226E-01	0.3480E+05
0.1299E-01	0.3473E+05
0.1395E-01	0.3455E+05
0.1455E-01	0.3450E+05
0.1546E-01	0.3470E+05
0.1628E-01	0.3500E+05
0.1697E-01	0.3517E+05
0.1793E-01	0.3516E+05
0.1858E-01	0.3530E+05
0.1949E-01	0.3516E+05
0.2030E-01	0.3510E+05
0.2104E-01	0.3503E+05
0.2196E-01	0.3477E+05
0.2258E-01	0.3474E+05
0.2352E-01	0.3452E+05
0.2507E-01	0.3477E+05
0.2681E-01	0.3426E+05
0.2828E-01	0.3431E+05
0.2996E-01	0.3451E+05
0.3148E-01	0.3433E+05
0.3293E-01	0.3414E+05
0.3463E-01	0.3390E+05
0.3611E-01	0.3380E+05
0.3779E-01	0.3375E+05
0.3935E-01	0.3362E+05
0.4087E-01	0.3353E+05

STATIC PRESSURE SURVEYS

X = 0.3175
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6889E+06
 AVERAGE STAGNATION TEMPERATURE = 264.0
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1363E-02	0.4079E+05
0.1315E-02	0.4075E+05
0.1763E-02	0.4065E+05
0.1828E-02	0.4063E+05
0.2084E-02	0.4050E+05
0.2356E-02	0.4041E+05
0.2412E-02	0.4035E+05
0.2733E-02	0.4016E+05
0.2781E-02	0.4013E+05
0.3085E-02	0.4013E+05
0.3333E-02	0.4016E+05
0.3662E-02	0.4018E+05
0.3974E-02	0.4007E+05
0.4479E-02	0.4009E+05
0.4959E-02	0.4007E+05
0.5360E-02	0.3988E+05
0.5688E-02	0.3977E+05
0.5952E-02	0.3978E+05
0.6425E-02	0.3960E+05
0.6921E-02	0.3936E+05
0.7314E-02	0.3933E+05
0.8147E-02	0.3921E+05
0.8859E-02	0.3909E+05
0.9636E-02	0.3904E+05
0.1052E-01	0.3907E+05
0.1137E-01	0.3931E+05
0.1210E-01	0.3961E+05
0.1287E-01	0.3993E+05
0.1366E-01	0.3992E+05
0.1454E-01	0.3965E+05
0.1544E-01	0.3946E+05
0.1619E-01	0.3921E+05
0.1688E-01	0.3894E+05
0.1766E-01	0.3860E+05
0.1857E-01	0.3828E+05
0.1942E-01	0.3801E+05
0.2016E-01	0.3777E+05
0.2083E-01	0.3744E+05
0.2167E-01	0.3726E+05
0.2265E-01	0.3694E+05
0.2345E-01	0.3672E+05
0.2506E-01	0.3638E+05
0.2667E-01	0.3619E+05
0.2827E-01	0.3598E+05
0.2984E-01	0.3593E+05
0.3142E-01	0.3569E+05
0.3293E-01	0.3533E+05
0.3449E-01	0.3473E+05
0.3603E-01	0.3448E+05
0.3763E-01	0.3484E+05
0.3920E-01	0.3506E+05
0.4084E-01	0.3527E+05

STATIC PRESSURE SURVEYS

X = 0.3429
 Z = - .1270E-02
 AVERAGE STAGNATION PRESSURE = 0.6884E+06
 AVERAGE STAGNATION TEMPERATURE = 264.8
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1433E-02	0.4367E+05
0.1505E-02	0.4353E+05
0.1865E-02	0.4325E+05
0.1946E-02	0.4337E+05
0.2186E-02	0.4328E+05
0.2442E-02	0.4316E+05
0.2490E-02	0.4310E+05
0.2867E-02	0.4296E+05
0.2987E-02	0.4297E+05
0.3203E-02	0.4287E+05
0.3443E-02	0.4286E+05
0.3780E-02	0.4288E+05
0.4116E-02	0.4296E+05
0.4613E-02	0.4298E+05
0.5061E-02	0.4306E+05
0.5446E-02	0.4306E+05
0.5766E-02	0.4297E+05
0.6126E-02	0.4288E+05
0.6599E-02	0.4279E+05
0.7103E-02	0.4272E+05
0.7432E-02	0.4259E+05
0.8265E-02	0.4233E+05
0.9002E-02	0.4218E+05
0.9754E-02	0.4204E+05
0.1058E-01	0.4175E+05
0.1148E-01	0.4153E+05
0.1228E-01	0.4140E+05
0.1301E-01	0.4124E+05
0.1377E-01	0.4125E+05
0.1462E-01	0.4118E+05
0.1546E-01	0.4102E+05
0.1634E-01	0.4093E+05
0.1703E-01	0.4086E+05
0.1775E-01	0.4062E+05
0.1861E-01	0.4045E+05
0.1952E-01	0.4026E+05
0.2031E-01	0.4005E+05
0.2101E-01	0.3998E+05
0.2181E-01	0.3995E+05
0.2268E-01	0.3989E+05
0.2357E-01	0.3982E+05
0.2516E-01	0.3984E+05
0.2677E-01	0.3930E+05
0.2834E-01	0.3901E+05
0.2999E-01	0.3869E+05
0.3154E-01	0.3824E+05
0.3304E-01	0.3763E+05
0.3459E-01	0.3701E+05
0.3615E-01	0.3643E+05
0.3778E-01	0.3596E+05
0.3937E-01	0.3562E+05
0.4099E-01	0.3502E+05

STATIC PRESSURE SURVEYS

X = 0.3683
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6898E+06
 AVERAGE STAGNATION TEMPERATURE = 267.7
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1413E-02	0.4395E+05
0.1756E-02	0.4362E+05
0.1836E-02	0.4356E+05
0.2115E-02	0.4354E+05
0.2354E-02	0.4344E+05
0.2554E-02	0.4328E+05
0.2745E-02	0.4323E+05
0.2945E-02	0.4324E+05
0.3152E-02	0.4317E+05
0.3328E-02	0.4307E+05
0.3551E-02	0.4297E+05
0.3862E-02	0.4310E+05
0.4237E-02	0.4317E+05
0.4684E-02	0.4322E+05
0.5203E-02	0.4320E+05
0.5530E-02	0.4327E+05
0.5849E-02	0.4334E+05
0.6216E-02	0.4330E+05
0.6663E-02	0.4314E+05
0.7157E-02	0.4315E+05
0.7508E-02	0.4312E+05
0.8322E-02	0.4297E+05
0.9072E-02	0.4300E+05
0.9822E-02	0.4298E+05
0.1060E-01	0.4308E+05
0.1153E-01	0.4301E+05
0.1239E-01	0.4304E+05
0.1308E-01	0.4311E+05
0.1383E-01	0.4323E+05
0.1465E-01	0.4335E+05
0.1554E-01	0.4335E+05
0.1638E-01	0.4344E+05
0.1710E-01	0.4370E+05
0.1780E-01	0.4374E+05
0.1864E-01	0.4376E+05
0.1950E-01	0.4364E+05
0.2038E-01	0.4343E+05
0.2110E-01	0.4345E+05
0.2181E-01	0.4323E+05
0.2269E-01	0.4290E+05
0.2354E-01	0.4267E+05
0.2514E-01	0.4196E+05
0.2674E-01	0.4172E+05
0.2835E-01	0.4122E+05
0.2990E-01	0.4057E+05
0.3148E-01	0.3960E+05
0.3301E-01	0.3909E+05
0.3455E-01	0.3872E+05
0.3614E-01	0.3851E+05
0.3771E-01	0.3821E+05
0.3928E-01	0.3769E+05
0.4092E-01	0.3693E+05

STATIC PRESSURE SURVEYS

X = 0.3932
 Z = 0.5080E-03
 AVERAGE STAGNATION PRESSURE = 0.6904E+06
 AVERAGE STAGNATION TEMPERATURE = 265.1
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1433E-02	0.4271E+05
0.1609E-02	0.4270E+05
0.1808E-02	0.4250E+05
0.2031E-02	0.4250E+05
0.2239E-02	0.4242E+05
0.2430E-02	0.4222E+05
0.2662E-02	0.4215E+05
0.2845E-02	0.4222E+05
0.3061E-02	0.4182E+05
0.3244E-02	0.4203E+05
0.3443E-02	0.4211E+05
0.3739E-02	0.4198E+05
0.4090E-02	0.4222E+05
0.4576E-02	0.4226E+05
0.5039E-02	0.4218E+05
0.5438E-02	0.4233E+05
0.5765E-02	0.4218E+05
0.6052E-02	0.4211E+05
0.6563E-02	0.4210E+05
0.7026E-02	0.4195E+05
0.7488E-02	0.4177E+05
0.8174E-02	0.4189E+05
0.8988E-02	0.4175E+05
0.9722E-02	0.4187E+05
0.1050E-01	0.4175E+05
0.1133E-01	0.4177E+05
0.1213E-01	0.4165E+05
0.1303E-01	0.4163E+05
0.1381E-01	0.4179E+05
0.1453E-01	0.4165E+05
0.1535E-01	0.4175E+05
0.1625E-01	0.4153E+05
0.1690E-01	0.4161E+05
0.1776E-01	0.4140E+05
0.1855E-01	0.4144E+05
0.1946E-01	0.4131E+05
0.2007E-01	0.4130E+05
0.2097E-01	0.4111E+05
0.2173E-01	0.4101E+05
0.2269E-01	0.4091E+05
0.2340E-01	0.4078E+05
0.2500E-01	0.4093E+05
0.2668E-01	0.4105E+05
0.2820E-01	0.4093E+05
0.2981E-01	0.4098E+05
0.3136E-01	0.4116E+05
0.3289E-01	0.4090E+05
0.3442E-01	0.4041E+05
0.3597E-01	0.4100E+05
0.3761E-01	0.4142E+05
0.3918E-01	0.4115E+05
0.4080E-01	0.4053E+05

STATIC PRESSURE SURVEYS

X = 0.4191
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6905E+06
 AVERAGE STAGNATION TEMPERATURE = 263.7
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1413E-02	0.4115E+05
0.1620E-02	0.4092E+05
0.1780E-02	0.4075E+05
0.2035E-02	0.4091E+05
0.2219E-02	0.4080E+05
0.2378E-02	0.4059E+05
0.2642E-02	0.4063E+05
0.2857E-02	0.4062E+05
0.3033E-02	0.4050E+05
0.3248E-02	0.4061E+05
0.3439E-02	0.4073E+05
0.3735E-02	0.4078E+05
0.4197E-02	0.4089E+05
0.4700E-02	0.4101E+05
0.5067E-02	0.4096E+05
0.5442E-02	0.4077E+05
0.5729E-02	0.4074E+05
0.6208E-02	0.4066E+05
0.6663E-02	0.4042E+05
0.7061E-02	0.4053E+05
0.7397E-02	0.4041E+05
0.8274E-02	0.4020E+05
0.8936E-02	0.4030E+05
0.9790E-02	0.4017E+05
0.1064E-01	0.4019E+05
0.1135E-01	0.4023E+05
0.1230E-01	0.4014E+05
0.1294E-01	0.4040E+05
0.1383E-01	0.4023E+05
0.1464E-01	0.4033E+05
0.1535E-01	0.4008E+05
0.1630E-01	0.4015E+05
0.1695E-01	0.3996E+05
0.1776E-01	0.3996E+05
0.1865E-01	0.3993E+05
0.1932E-01	0.3987E+05
0.2021E-01	0.3976E+05
0.2099E-01	0.3986E+05
0.2178E-01	0.3983E+05
0.2274E-01	0.3975E+05
0.2336E-01	0.3984E+05
0.2514E-01	0.4085E+05
0.2660E-01	0.4210E+05
0.2828E-01	0.4241E+05
0.2981E-01	0.4213E+05
0.3132E-01	0.4203E+05
0.3298E-01	0.4167E+05
0.3435E-01	0.4171E+05
0.3612E-01	0.4188E+05
0.3756E-01	0.4211E+05
0.3917E-01	0.4226E+05
0.4083E-01	0.4212E+05

STATIC PRESSURE SURVEYS

X = 0.4445
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6910E+06
 AVERAGE STAGNATION TEMPERATURE = 266.9
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1293E-02	0.3989E+05
0.1484E-02	0.3966E+05
0.1660E-02	0.3959E+05
0.1819E-02	0.3964E+05
0.2059E-02	0.3956E+05
0.2274E-02	0.3939E+05
0.2489E-02	0.3929E+05
0.2665E-02	0.3938E+05
0.2856E-02	0.3946E+05
0.3079E-02	0.3929E+05
0.3303E-02	0.3927E+05
0.3654E-02	0.3951E+05
0.4036E-02	0.3976E+05
0.4379E-02	0.3972E+05
0.4834E-02	0.3966E+05
0.5304E-02	0.3966E+05
0.5671E-02	0.3956E+05
0.5998E-02	0.3943E+05
0.6349E-02	0.3940E+05
0.6828E-02	0.3926E+05
0.7274E-02	0.3921E+05
0.7936E-02	0.3923E+05
0.8790E-02	0.3918E+05
0.9619E-02	0.3909E+05
0.1032E-01	0.3918E+05
0.1124E-01	0.3930E+05
0.1199E-01	0.3967E+05
0.1280E-01	0.4025E+05
0.1362E-01	0.4083E+05
0.1436E-01	0.4114E+05
0.1521E-01	0.4123E+05
0.1597E-01	0.4134E+05
0.1679E-01	0.4143E+05
0.1769E-01	0.4143E+05
0.1832E-01	0.4137E+05
0.1920E-01	0.4137E+05
0.2008E-01	0.4153E+05
0.2078E-01	0.4144E+05
0.2169E-01	0.4147E+05
0.2232E-01	0.4150E+05
0.2326E-01	0.4139E+05
0.2481E-01	0.4200E+05
0.2648E-01	0.4235E+05
0.2795E-01	0.4256E+05
0.2962E-01	0.4253E+05
0.3113E-01	0.4207E+05
0.3263E-01	0.4176E+05
0.3428E-01	0.4146E+05
0.3578E-01	0.4134E+05
0.3744E-01	0.4122E+05
0.3889E-01	0.4132E+05
0.4059E-01	0.4100E+05

STATIC PRESSURE SURVEYS

X = 0.4572
 Z = -0.5080E-03
 AVERAGE STAGNATION PRESSURE = 0.6878E+06
 AVERAGE STAGNATION TEMPERATURE = 269.7
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1243E-02	0.3923E+05
0.1347E-02	0.3923E+05
0.1706E-02	0.3903E+05
0.1745E-02	0.3904E+05
0.2017E-02	0.3896E+05
0.2256E-02	0.3886E+05
0.2391E-02	0.3882E+05
0.2674E-02	0.3882E+05
0.2782E-02	0.3886E+05
0.3037E-02	0.3881E+05
0.3221E-02	0.3881E+05
0.3572E-02	0.3902E+05
0.3994E-02	0.3924E+05
0.4441E-02	0.3939E+05
0.4912E-02	0.3947E+05
0.5207E-02	0.3956E+05
0.5510E-02	0.3969E+05
0.5964E-02	0.3969E+05
0.6451E-02	0.3951E+05
0.6857E-02	0.3953E+05
0.7224E-02	0.3959E+05
0.8086E-02	0.3949E+05
0.8803E-02	0.3953E+05
0.9569E-02	0.3981E+05
0.1034E-01	0.3988E+05
0.1120E-01	0.3977E+05
0.1210E-01	0.3972E+05
0.1283E-01	0.3970E+05
0.1356E-01	0.3957E+05
0.1435E-01	0.3939E+05
0.1525E-01	0.3939E+05
0.1614E-01	0.3929E+05
0.1687E-01	0.3916E+05
0.1758E-01	0.3920E+05
0.1833E-01	0.3925E+05
0.1927E-01	0.3932E+05
0.2009E-01	0.3940E+05
0.2084E-01	0.3968E+05
0.2164E-01	0.3993E+05
0.2240E-01	0.4002E+05
0.2325E-01	0.4015E+05
0.2489E-01	0.4026E+05
0.2646E-01	0.4019E+05
0.2810E-01	0.4025E+05
0.2970E-01	0.4024E+05
0.3122E-01	0.4015E+05
0.3273E-01	0.4044E+05
0.3424E-01	0.4039E+05
0.3586E-01	0.4013E+05
0.3746E-01	0.3964E+05
0.3903E-01	0.3948E+05
0.4066E-01	0.3970E+05

STATIC PRESSURE SURVEYS

X = 0.4191
 Z = 0.5029E-01
 AVERAGE STAGNATION PRESSURE = 0.6909E+06
 AVERAGE STAGNATION TEMPERATURE = 265.7
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1243E-02	0.4145E+05
0.1418E-02	0.4137E+05
0.1618E-02	0.4121E+05
0.1825E-02	0.4109E+05
0.2017E-02	0.4112E+05
0.2224E-02	0.4100E+05
0.2439E-02	0.4086E+05
0.2631E-02	0.4087E+05
0.2830E-02	0.4099E+05
0.3045E-02	0.4082E+05
0.3261E-02	0.4081E+05
0.3564E-02	0.4098E+05
0.4026E-02	0.4118E+05
0.4489E-02	0.4116E+05
0.4896E-02	0.4113E+05
0.5270E-02	0.4103E+05
0.5565E-02	0.4096E+05
0.6052E-02	0.4083E+05
0.6538E-02	0.4069E+05
0.6881E-02	0.4063E+05
0.7224E-02	0.4066E+05
0.8078E-02	0.4053E+05
0.8755E-02	0.4054E+05
0.9681E-02	0.4043E+05
0.1041E-01	0.4043E+05
0.1116E-01	0.4036E+05
0.1214E-01	0.4024E+05
0.1275E-01	0.4030E+05
0.1368E-01	0.4017E+05
0.1449E-01	0.4009E+05
0.1521E-01	0.4008E+05
0.1613E-01	0.4001E+05
0.1671E-01	0.3999E+05
0.1765E-01	0.3987E+05
0.1843E-01	0.3990E+05
0.1919E-01	0.3997E+05
0.2011E-01	0.3992E+05
0.2078E-01	0.3995E+05
0.2170E-01	0.3988E+05
0.2254E-01	0.3988E+05
0.2317E-01	0.3996E+05
0.2475E-01	0.4047E+05
0.2648E-01	0.4068E+05
0.2798E-01	0.4076E+05
0.2971E-01	0.4035E+05
0.3113E-01	0.4038E+05
0.3277E-01	0.4014E+05
0.3424E-01	0.4028E+05
0.3577E-01	0.4030E+05
0.3747E-01	0.4059E+05
0.3892E-01	0.4095E+05
0.4068E-01	0.4113E+05

STATIC PRESSURE SURVEYS

X = 0.4191
 Z = 0.3861E-01
 AVERAGE STAGNATION PRESSURE = 0.6915E+06
 AVERAGE STAGNATION TEMPERATURE = 266.1
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1193E-02	0.4132E+05
0.1408E-02	0.4130E+05
0.1600E-02	0.4136E+05
0.1815E-02	0.4122E+05
0.2022E-02	0.4107E+05
0.2230E-02	0.4096E+05
0.2413E-02	0.4107E+05
0.2629E-02	0.4092E+05
0.2860E-02	0.4091E+05
0.3019E-02	0.4085E+05
0.3219E-02	0.4090E+05
0.3633E-02	0.4095E+05
0.4160E-02	0.4105E+05
0.4503E-02	0.4132E+05
0.4822E-02	0.4130E+05
0.5220E-02	0.4109E+05
0.5739E-02	0.4100E+05
0.6145E-02	0.4094E+05
0.6472E-02	0.4079E+05
0.6815E-02	0.4077E+05
0.7206E-02	0.4083E+05
0.8091E-02	0.4065E+05
0.8817E-02	0.4068E+05
0.9702E-02	0.4055E+05
0.1052E-01	0.4053E+05
0.1123E-01	0.4062E+05
0.1217E-01	0.4045E+05
0.1282E-01	0.4056E+05
0.1366E-01	0.4052E+05
0.1454E-01	0.4055E+05
0.1516E-01	0.4071E+05
0.1611E-01	0.4055E+05
0.1686E-01	0.4069E+05
0.1770E-01	0.4065E+05
0.1850E-01	0.4047E+05
0.1921E-01	0.4047E+05
0.2014E-01	0.4032E+05
0.2085E-01	0.4028E+05
0.2170E-01	0.4021E+05
0.2253E-01	0.4003E+05
0.2320E-01	0.4017E+05
0.2496E-01	0.4050E+05
0.2649E-01	0.4034E+05
0.2805E-01	0.3992E+05
0.2972E-01	0.3960E+05
0.3116E-01	0.3933E+05
0.3278E-01	0.3928E+05
0.3427E-01	0.3913E+05
0.3585E-01	0.3938E+05
0.3748E-01	0.4006E+05
0.3895E-01	0.4116E+05
0.4070E-01	0.4156E+05

STATIC PRESSURE SURVEYS

X = 0.4191
 Z = 0.2540E-01
 AVERAGE STAGNATION PRESSURE = 0.6904E+06
 AVERAGE STAGNATION TEMPERATURE = 266.5
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1393E-02	0.4110E+05
0.1433E-02	0.4099E+05
0.1688E-02	0.4097E+05
0.1864E-02	0.4125E+05
0.2031E-02	0.4089E+05
0.2238E-02	0.4068E+05
0.2454E-02	0.4069E+05
0.2661E-02	0.4064E+05
0.2852E-02	0.4065E+05
0.3060E-02	0.4059E+05
0.3195E-02	0.4069E+05
0.3658E-02	0.4075E+05
0.4160E-02	0.4094E+05
0.4567E-02	0.4097E+05
0.4934E-02	0.4091E+05
0.5245E-02	0.4081E+05
0.5660E-02	0.4070E+05
0.6162E-02	0.4054E+05
0.6569E-02	0.4039E+05
0.6904E-02	0.4038E+05
0.7223E-02	0.4036E+05
0.8164E-02	0.4013E+05
0.8818E-02	0.4015E+05
0.9711E-02	0.4017E+05
0.1050E-01	0.3996E+05
0.1124E-01	0.4004E+05
0.1217E-01	0.4001E+05
0.1290E-01	0.4005E+05
0.1367E-01	0.3999E+05
0.1461E-01	0.3985E+05
0.1524E-01	0.3976E+05
0.1616E-01	0.3971E+05
0.1690E-01	0.3977E+05
0.1773E-01	0.3961E+05
0.1858E-01	0.3951E+05
0.1927E-01	0.3964E+05
0.2017E-01	0.3953E+05
0.2096E-01	0.3949E+05
0.2174E-01	0.3952E+05
0.2260E-01	0.3938E+05
0.2325E-01	0.3940E+05
0.2504E-01	0.4002E+05
0.2647E-01	0.4051E+05
0.2817E-01	0.4025E+05
0.2978E-01	0.4004E+05
0.3122E-01	0.4000E+05
0.3288E-01	0.3985E+05
0.3423E-01	0.3990E+05
0.3597E-01	0.4015E+05
0.3751E-01	0.4032E+05
0.3902E-01	0.4033E+05
0.4074E-01	0.4043E+05

STATIC PRESSURE SURVEYS

X = 0.4186
 Z = 0.1270E-01
 AVERAGE STAGNATION PRESSURE = 0.6919E+06
 AVERAGE STAGNATION TEMPERATURE = 264.8
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1193E-02	0.4083E+05
0.1345E-02	0.4071E+05
0.1544E-02	0.4074E+05
0.1775E-02	0.4078E+05
0.1959E-02	0.4067E+05
0.2190E-02	0.4043E+05
0.2397E-02	0.4039E+05
0.2565E-02	0.4045E+05
0.2788E-02	0.4041E+05
0.3019E-02	0.4032E+05
0.3179E-02	0.4034E+05
0.3562E-02	0.4049E+05
0.3817E-02	0.4065E+05
0.4200E-02	0.4068E+05
0.4694E-02	0.4071E+05
0.5085E-02	0.4068E+05
0.5420E-02	0.4062E+05
0.5898E-02	0.4043E+05
0.6401E-02	0.4024E+05
0.6752E-02	0.4025E+05
0.7087E-02	0.4024E+05
0.7964E-02	0.4013E+05
0.8642E-02	0.4007E+05
0.9535E-02	0.4003E+05
0.1028E-01	0.4008E+05
0.1107E-01	0.4020E+05
0.1194E-01	0.4014E+05
0.1261E-01	0.4016E+05
0.1355E-01	0.4013E+05
0.1434E-01	0.4017E+05
0.1506E-01	0.4009E+05
0.1599E-01	0.4019E+05
0.1664E-01	0.4041E+05
0.1758E-01	0.4047E+05
0.1825E-01	0.4063E+05
0.1909E-01	0.4079E+05
0.1998E-01	0.4091E+05
0.2065E-01	0.4086E+05
0.2155E-01	0.4071E+05
0.2231E-01	0.4080E+05
0.2314E-01	0.4081E+05
0.2470E-01	0.4125E+05
0.2640E-01	0.4237E+05
0.2789E-01	0.4247E+05
0.2958E-01	0.4248E+05
0.3108E-01	0.4208E+05
0.3255E-01	0.4190E+05
0.3420E-01	0.4173E+05
0.3562E-01	0.4185E+05
0.3734E-01	0.4230E+05
0.3889E-01	0.4258E+05
0.4041E-01	0.4299E+05

STATIC PRESSURE SURVEYS

X = 0.4191
 Z = -0.1219E-01
 AVERAGE STAGNATION PRESSURE = 0.6920E+06
 AVERAGE STAGNATION TEMPERATURE = 268.0
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1213E-02	0.4135E+05
0.1420E-02	0.4118E+05
0.1620E-02	0.4104E+05
0.1779E-02	0.4095E+05
0.1987E-02	0.4105E+05
0.2210E-02	0.4095E+05
0.2425E-02	0.4081E+05
0.2617E-02	0.4067E+05
0.2832E-02	0.4076E+05
0.3055E-02	0.4084E+05
0.3247E-02	0.4087E+05
0.3709E-02	0.4079E+05
0.4124E-02	0.4093E+05
0.4435E-02	0.4110E+05
0.4778E-02	0.4115E+05
0.5177E-02	0.4101E+05
0.5695E-02	0.4092E+05
0.6094E-02	0.4080E+05
0.6445E-02	0.4072E+05
0.6764E-02	0.4057E+05
0.7242E-02	0.4051E+05
0.8016E-02	0.4046E+05
0.8917E-02	0.4038E+05
0.9555E-02	0.4030E+05
0.1051E-01	0.4015E+05
0.1124E-01	0.4017E+05
0.1204E-01	0.4008E+05
0.1294E-01	0.3998E+05
0.1357E-01	0.4001E+05
0.1448E-01	0.3987E+05
0.1524E-01	0.3983E+05
0.1603E-01	0.3984E+05
0.1688E-01	0.3981E+05
0.1762E-01	0.3991E+05
0.1849E-01	0.3985E+05
0.1917E-01	0.4009E+05
0.2007E-01	0.4009E+05
0.2094E-01	0.4016E+05
0.2161E-01	0.4035E+05
0.2253E-01	0.4030E+05
0.2326E-01	0.4034E+05
0.2495E-01	0.4149E+05
0.2640E-01	0.4221E+05
0.2818E-01	0.4198E+05
0.2968E-01	0.4177E+05
0.3117E-01	0.4163E+05
0.3279E-01	0.4140E+05
0.3419E-01	0.4136E+05
0.3595E-01	0.4174E+05
0.3744E-01	0.4169E+05
0.3901E-01	0.4167E+05
0.4073E-01	0.4151E+05

STATIC PRESSURE SURVEYS

X = 0.4191
 Z = -0.2540E-01
 AVERAGE STAGNATION PRESSURE = 0.6909E+06
 AVERAGE STAGNATION TEMPERATURE = 267.4
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1213E-02	0.4145E+05
0.1404E-02	0.4140E+05
0.1612E-02	0.4136E+05
0.1795E-02	0.4134E+05
0.2003E-02	0.4127E+05
0.2242E-02	0.4117E+05
0.2409E-02	0.4105E+05
0.2641E-02	0.4112E+05
0.2816E-02	0.4116E+05
0.2999E-02	0.4106E+05
0.3199E-02	0.4100E+05
0.3558E-02	0.4107E+05
0.3925E-02	0.4125E+05
0.4299E-02	0.4138E+05
0.4826E-02	0.4133E+05
0.5280E-02	0.4135E+05
0.5543E-02	0.4122E+05
0.5902E-02	0.4110E+05
0.6309E-02	0.4103E+05
0.6803E-02	0.4100E+05
0.7258E-02	0.4087E+05
0.7904E-02	0.4075E+05
0.8789E-02	0.4069E+05
0.9563E-02	0.4076E+05
0.1029E-01	0.4067E+05
0.1123E-01	0.4077E+05
0.1189E-01	0.4083E+05
0.1282E-01	0.4065E+05
0.1354E-01	0.4072E+05
0.1440E-01	0.4075E+05
0.1523E-01	0.4063E+05
0.1593E-01	0.4073E+05
0.1680E-01	0.4078E+05
0.1755E-01	0.4080E+05
0.1839E-01	0.4064E+05
0.1925E-01	0.4057E+05
0.1993E-01	0.4059E+05
0.2088E-01	0.4043E+05
0.2154E-01	0.4042E+05
0.2243E-01	0.4056E+05
0.2326E-01	0.4094E+05
0.2486E-01	0.4144E+05
0.2643E-01	0.4111E+05
0.2795E-01	0.4074E+05
0.2964E-01	0.4051E+05
0.3112E-01	0.4045E+05
0.3268E-01	0.4082E+05
0.3425E-01	0.4130E+05
0.3582E-01	0.4145E+05
0.3727E-01	0.4126E+05
0.3899E-01	0.4120E+05
0.4065E-01	0.4131E+05

```

STATIC PRESSURE SURVEYS
X                               = 0.4191
Z                               = -.2540E-01
AVERAGE STAGNATION PRESSURE   = 0.6918E+06
AVERAGE STAGNATION TEMPERATURE = 266.6
NUMBER OF DATA POINTS        = 52
  Y      Static Pressure
0.1243E-02  0.4167E+05
0.1403E-02  0.4148E+05
0.1642E-02  0.4139E+05
0.1849E-02  0.4143E+05
0.2072E-02  0.4137E+05
0.2264E-02  0.4126E+05
0.2519E-02  0.4118E+05
0.2655E-02  0.4113E+05
0.2798E-02  0.4112E+05
0.3037E-02  0.4103E+05
0.3237E-02  0.4101E+05
0.3572E-02  0.4116E+05
0.3931E-02  0.4132E+05
0.4465E-02  0.4142E+05
0.4935E-02  0.4144E+05
0.5262E-02  0.4137E+05
0.5589E-02  0.4125E+05
0.5948E-02  0.4118E+05
0.6483E-02  0.4104E+05
0.6873E-02  0.4094E+05
0.7264E-02  0.4084E+05
0.8054E-02  0.4079E+05
0.8740E-02  0.4086E+05
0.9649E-02  0.4079E+05
0.1038E-01  0.4078E+05
0.1124E-01  0.4076E+05
0.1209E-01  0.4068E+05
0.1273E-01  0.4076E+05
0.1366E-01  0.4082E+05
0.1445E-01  0.4094E+05
0.1518E-01  0.4081E+05
0.1611E-01  0.4072E+05
0.1678E-01  0.4080E+05
0.1770E-01  0.4081E+05
0.1843E-01  0.4080E+05
0.1923E-01  0.4078E+05
0.2016E-01  0.4062E+05
0.2081E-01  0.4059E+05
0.2169E-01  0.4050E+05
0.2249E-01  0.4072E+05
0.2325E-01  0.4096E+05
0.2490E-01  0.4162E+05
0.2650E-01  0.4129E+05
0.2798E-01  0.4085E+05
0.2970E-01  0.4074E+05
0.3118E-01  0.4068E+05
0.3278E-01  0.4097E+05
0.3432E-01  0.4140E+05
0.3587E-01  0.4152E+05
0.3735E-01  0.4150E+05
0.3908E-01  0.4132E+05
0.4059E-01  0.4156E+05

```

STATIC PRESSURE SURVEYS

X = 0.4206
 Z = -0.3810E-01
 AVERAGE STAGNATION PRESSURE = 0.6905E+06
 AVERAGE STAGNATION TEMPERATURE = 267.2
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1293E-02	0.4194E+05
0.1476E-02	0.4186E+05
0.1668E-02	0.4182E+05
0.1867E-02	0.4175E+05
0.2059E-02	0.4173E+05
0.2266E-02	0.4171E+05
0.2433E-02	0.4155E+05
0.2760E-02	0.4143E+05
0.2816E-02	0.4153E+05
0.3135E-02	0.4150E+05
0.3335E-02	0.4142E+05
0.3662E-02	0.4144E+05
0.4052E-02	0.4166E+05
0.4379E-02	0.4183E+05
0.4874E-02	0.4189E+05
0.5328E-02	0.4174E+05
0.5703E-02	0.4162E+05
0.6070E-02	0.4161E+05
0.6413E-02	0.4166E+05
0.6828E-02	0.4151E+05
0.7322E-02	0.4132E+05
0.8000E-02	0.4139E+05
0.8877E-02	0.4132E+05
0.9659E-02	0.4123E+05
0.1040E-01	0.4126E+05
0.1126E-01	0.4118E+05
0.1212E-01	0.4125E+05
0.1282E-01	0.4131E+05
0.1368E-01	0.4123E+05
0.1449E-01	0.4125E+05
0.1525E-01	0.4130E+05
0.1613E-01	0.4120E+05
0.1681E-01	0.4104E+05
0.1772E-01	0.4105E+05
0.1847E-01	0.4121E+05
0.1923E-01	0.4105E+05
0.2014E-01	0.4100E+05
0.2082E-01	0.4109E+05
0.2172E-01	0.4094E+05
0.2259E-01	0.4125E+05
0.2338E-01	0.4153E+05
0.2482E-01	0.4160E+05
0.2657E-01	0.4107E+05
0.2811E-01	0.4080E+05
0.2962E-01	0.4050E+05
0.3134E-01	0.4017E+05
0.3271E-01	0.3997E+05
0.3435E-01	0.4017E+05
0.3587E-01	0.4069E+05
0.3737E-01	0.4092E+05
0.3911E-01	0.4091E+05
0.4061E-01	0.4084E+05

STATIC PRESSURE SURVEYS

X = 0.4196
 Z = -.5004E-01
 AVERAGE STAGNATION PRESSURE = 0.6908E+06
 AVERAGE STAGNATION TEMPERATURE = 266.5
 NUMBER OF DATA POINTS = 52

Y	Static Pressure
0.1213E-02	0.4163E+05
0.1412E-02	0.4151E+05
0.1612E-02	0.4144E+05
0.1779E-02	0.4149E+05
0.2026E-02	0.4135E+05
0.2226E-02	0.4124E+05
0.2425E-02	0.4116E+05
0.2617E-02	0.4112E+05
0.2832E-02	0.4115E+05
0.3031E-02	0.4114E+05
0.3247E-02	0.4107E+05
0.3566E-02	0.4125E+05
0.3940E-02	0.4145E+05
0.4411E-02	0.4144E+05
0.4866E-02	0.4147E+05
0.5201E-02	0.4141E+05
0.5543E-02	0.4140E+05
0.5918E-02	0.4128E+05
0.6389E-02	0.4107E+05
0.6843E-02	0.4096E+05
0.7210E-02	0.4088E+05
0.8016E-02	0.4088E+05
0.8733E-02	0.4085E+05
0.9651E-02	0.4077E+05
0.1032E-01	0.4085E+05
0.1121E-01	0.4078E+05
0.1205E-01	0.4075E+05
0.1274E-01	0.4082E+05
0.1368E-01	0.4078E+05
0.1436E-01	0.4072E+05
0.1521E-01	0.4061E+05
0.1601E-01	0.4080E+05
0.1677E-01	0.4091E+05
0.1765E-01	0.4065E+05
0.1830E-01	0.4068E+05
0.1927E-01	0.4067E+05
0.1995E-01	0.4055E+05
0.2089E-01	0.4049E+05
0.2166E-01	0.4077E+05
0.2239E-01	0.4128E+05
0.2334E-01	0.4158E+05
0.2478E-01	0.4172E+05
0.2647E-01	0.4169E+05
0.2805E-01	0.4133E+05
0.2949E-01	0.4115E+05
0.3124E-01	0.4074E+05
0.3260E-01	0.4057E+05
0.3426E-01	0.4098E+05
0.3577E-01	0.4121E+05
0.3729E-01	0.4148E+05
0.3908E-01	0.4143E+05
0.4055E-01	0.4173E+05

APPENDIX D

**VERTICAL SURVEYS OF PITOT PRESSURE AT
STREAMWISE AND SPANWISE LOCATIONS
AND OTHER MEAN FLOW PARAMETERS**

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6896E+06

AVERAGE STAGNATION TEMPERATURE = 268.5

X = 0.2459

Z = 0.0000E+00

NUMBER OF DATA POINTS = 51

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.2970E-03	0.6758E+05	0.3049E+05	222.1	0.4779	338.5	1.133
0.4495E-03	0.7695E+05	0.3049E+05	213.5	0.4971	363.0	1.239
0.6661E-03	0.8326E+05	0.3049E+05	208.0	0.5103	377.8	1.306
0.8748E-03	0.8814E+05	0.3049E+05	204.2	0.5198	387.5	1.352
0.1075E-02	0.9209E+05	0.3049E+05	201.0	0.5280	395.5	1.391
0.1268E-02	0.9590E+05	0.3049E+05	198.1	0.5358	402.7	1.427
0.1477E-02	0.9662E+05	0.3039E+05	197.2	0.5365	404.7	1.437
0.1701E-02	0.1022E+06	0.3029E+05	192.9	0.5465	415.1	1.490
0.1830E-02	0.1045E+06	0.3022E+05	191.2	0.5503	419.1	1.512
0.2022E-02	0.1076E+06	0.3012E+05	188.9	0.5552	424.4	1.540
0.2255E-02	0.1096E+06	0.2995E+05	186.9	0.5578	429.0	1.565
0.2704E-02	0.1122E+06	0.2937E+05	183.8	0.5564	435.9	1.604
0.3218E-02	0.1173E+06	0.2882E+05	179.0	0.5606	446.4	1.664
0.3571E-02	0.1195E+06	0.2858E+05	177.0	0.5622	450.5	1.689
0.3956E-02	0.1243E+06	0.2857E+05	174.0	0.5717	456.9	1.727
0.4261E-02	0.1269E+06	0.2867E+05	172.6	0.5783	459.7	1.745
0.4751E-02	0.1316E+06	0.2898E+05	170.2	0.5927	464.5	1.775
0.5216E-02	0.1345E+06	0.2925E+05	169.6	0.6004	465.5	1.782
0.5585E-02	0.1390E+06	0.2944E+05	167.4	0.6122	469.8	1.811
0.5963E-02	0.1436E+06	0.2964E+05	165.3	0.6242	474.1	1.839
0.6300E-02	0.1479E+06	0.2979E+05	163.7	0.6336	477.3	1.860
0.7207E-02	0.1573E+06	0.3019E+05	159.5	0.6591	485.4	1.917
0.7977E-02	0.1628E+06	0.3028E+05	157.3	0.6701	489.3	1.945
0.8747E-02	0.1728E+06	0.3050E+05	153.3	0.6929	497.0	2.002
0.9614E-02	0.1794E+06	0.3061E+05	150.2	0.7094	502.5	2.044
0.1032E-01	0.1868E+06	0.3057E+05	147.3	0.7226	507.8	2.087
0.1122E-01	0.1935E+06	0.3051E+05	144.3	0.7359	513.0	2.129
0.1202E-01	0.2020E+06	0.3053E+05	141.0	0.7537	518.9	2.179
0.1279E-01	0.2101E+06	0.3055E+05	137.8	0.7717	524.6	2.228
0.1359E-01	0.2171E+06	0.3050E+05	135.1	0.7862	529.2	2.271
0.1447E-01	0.2270E+06	0.3038E+05	131.5	0.8040	535.3	2.328
0.1515E-01	0.2315E+06	0.3043E+05	129.8	0.8163	538.2	2.356
0.1605E-01	0.2437E+06	0.3045E+05	126.0	0.8414	544.6	2.420
0.1683E-01	0.2473E+06	0.3049E+05	125.1	0.8489	545.8	2.434
0.1761E-01	0.2562E+06	0.3049E+05	122.2	0.8687	550.5	2.483
0.1849E-01	0.2663E+06	0.3057E+05	119.8	0.8885	554.3	2.526
0.1916E-01	0.2736E+06	0.3051E+05	117.4	0.9044	558.1	2.568
0.2006E-01	0.2788E+06	0.3066E+05	116.2	0.9187	559.8	2.589
0.2083E-01	0.2855E+06	0.3078E+05	115.0	0.9318	561.4	2.611
0.2163E-01	0.2918E+06	0.3093E+05	113.5	0.9492	563.7	2.639
0.2249E-01	0.2908E+06	0.3105E+05	114.0	0.9479	562.1	2.625
0.2402E-01	0.2966E+06	0.3104E+05	112.4	0.9616	564.1	2.653
0.2562E-01	0.3016E+06	0.3124E+05	111.5	0.9759	564.7	2.667
0.2728E-01	0.3009E+06	0.3165E+05	112.3	0.9814	562.2	2.646
0.2879E-01	0.3051E+06	0.3200E+05	111.7	0.9976	562.3	2.653
0.3048E-01	0.3074E+06	0.3278E+05	112.6	1.014	559.9	2.632
0.3199E-01	0.3095E+06	0.3335E+05	113.3	1.025	558.7	2.618
0.3358E-01	0.3119E+06	0.3375E+05	113.6	1.034	558.0	2.611
0.3513E-01	0.3111E+06	0.3376E+05	114.0	1.031	557.4	2.604
0.3667E-01	0.3112E+06	0.3342E+05	113.3	1.027	558.7	2.618
0.3838E-01	0.3136E+06	0.3331E+05	112.6	1.030	559.9	2.632

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6889E+06

AVERAGE STAGNATION TEMPERATURE = 272.0

X = 0.2667

Z = -0.1524E-02

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.3970E-03	0.7494E+05	0.3150E+05	220.4	0.4976	354.1	1.189
0.5816E-03	0.8106E+05	0.3150E+05	214.8	0.5105	369.3	1.257
0.7742E-03	0.8553E+05	0.3150E+05	211.3	0.5191	378.7	1.299
0.9908E-03	0.9192E+05	0.3150E+05	206.0	0.5324	392.2	1.363
0.1207E-02	0.9688E+05	0.3150E+05	202.2	0.5424	401.7	1.409
0.1416E-02	0.9770E+05	0.3229E+05	203.3	0.5531	398.8	1.395
0.1577E-02	0.1034E+06	0.3222E+05	199.2	0.5632	408.8	1.444
0.1801E-02	0.1068E+06	0.3219E+05	196.6	0.5702	415.0	1.476
0.2002E-02	0.1079E+06	0.3212E+05	195.7	0.5716	417.0	1.487
0.2219E-02	0.1106E+06	0.3214E+05	193.9	0.5771	421.1	1.508
0.2427E-02	0.1121E+06	0.3205E+05	192.7	0.5791	423.7	1.522
0.2885E-02	0.1178E+06	0.3199E+05	188.9	0.5895	432.2	1.568
0.3302E-02	0.1236E+06	0.3213E+05	185.5	0.6031	439.8	1.611
0.3687E-02	0.1262E+06	0.3217E+05	184.0	0.6088	442.9	1.628
0.4000E-02	0.1292E+06	0.3224E+05	182.2	0.6159	446.6	1.650
0.4418E-02	0.1318E+06	0.3237E+05	181.0	0.6226	448.9	1.664
0.4891E-02	0.1370E+06	0.3230E+05	177.9	0.6320	455.5	1.703
0.5340E-02	0.1422E+06	0.3221E+05	174.6	0.6422	462.4	1.745
0.5702E-02	0.1438E+06	0.3215E+05	173.7	0.6443	464.0	1.756
0.6023E-02	0.1500E+06	0.3213E+05	170.6	0.6558	470.5	1.797
0.6416E-02	0.1531E+06	0.3216E+05	168.9	0.6629	473.8	1.818
0.7218E-02	0.1638E+06	0.3217E+05	163.6	0.6846	484.4	1.889
0.8109E-02	0.1696E+06	0.3232E+05	160.9	0.6994	489.3	1.924
0.8928E-02	0.1776E+06	0.3236E+05	157.7	0.7145	495.2	1.966
0.9650E-02	0.1853E+06	0.3233E+05	154.1	0.7304	501.9	2.016
0.1044E-01	0.1926E+06	0.3232E+05	151.1	0.7450	507.4	2.058
0.1122E-01	0.2005E+06	0.3230E+05	147.6	0.7618	513.6	2.108
0.1212E-01	0.2130E+06	0.3223E+05	142.9	0.7854	522.2	2.179
0.1296E-01	0.2168E+06	0.3204E+05	140.9	0.7918	525.4	2.207
0.1366E-01	0.2257E+06	0.3190E+05	137.3	0.8091	531.8	2.264
0.1446E-01	0.2327E+06	0.3174E+05	134.5	0.8213	536.4	2.306
0.1526E-01	0.2398E+06	0.3157E+05	131.9	0.8337	540.8	2.349
0.1611E-01	0.2521E+06	0.3152E+05	127.6	0.8599	548.1	2.420
0.1702E-01	0.2582E+06	0.3151E+05	125.9	0.8716	550.7	2.448
0.1769E-01	0.2649E+06	0.3171E+05	124.2	0.8889	553.3	2.476
0.1847E-01	0.2766E+06	0.3208E+05	122.1	0.9146	556.6	2.512
0.1926E-01	0.2852E+06	0.3238E+05	120.1	0.9387	559.7	2.547
0.2015E-01	0.2908E+06	0.3264E+05	119.2	0.9534	560.7	2.561
0.2099E-01	0.2959E+06	0.3277E+05	118.3	0.9644	561.7	2.575
0.2173E-01	0.3013E+06	0.3277E+05	116.7	0.9775	564.1	2.604
0.2249E-01	0.3037E+06	0.3269E+05	115.9	0.9822	565.1	2.618
0.2405E-01	0.3025E+06	0.3246E+05	115.7	0.9773	564.5	2.618
0.2572E-01	0.3053E+06	0.3217E+05	114.0	0.9828	566.5	2.646
0.2731E-01	0.3045E+06	0.3204E+05	113.7	0.9808	565.9	2.646
0.2885E-01	0.3067E+06	0.3209E+05	113.1	0.9874	565.9	2.653
0.3055E-01	0.3058E+06	0.3199E+05	113.0	0.9859	565.5	2.653
0.3202E-01	0.3047E+06	0.3169E+05	112.3	0.9829	566.7	2.667
0.3359E-01	0.3024E+06	0.3136E+05	112.3	0.9727	566.7	2.667
0.3518E-01	0.3017E+06	0.3119E+05	111.9	0.9705	567.3	2.674
0.3678E-01	0.3058E+06	0.3136E+05	111.6	0.9788	568.0	2.682
0.3840E-01	0.3059E+06	0.3162E+05	111.9	0.9837	567.3	2.674
0.3998E-01	0.3071E+06	0.3195E+05	112.6	0.9879	566.1	2.660

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6885E+06

AVERAGE STAGNATION TEMPERATURE = 268.3

X = 0.2921

Z = -0.7620E-03

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.3970E-03	0.7941E+05	0.3584E+05	221.9	0.5622	338.4	1.133
0.5735E-03	0.8709E+05	0.3584E+05	215.9	0.5779	355.7	1.207
0.8463E-03	0.9214E+05	0.3584E+05	212.1	0.5883	366.0	1.253
0.1079E-02	0.9595E+05	0.3584E+05	209.2	0.5965	373.7	1.289
0.1288E-02	0.1024E+06	0.3584E+05	204.5	0.6100	385.8	1.345
0.1464E-02	0.1048E+06	0.3622E+05	203.6	0.6193	388.0	1.356
0.1673E-02	0.1069E+06	0.3618E+05	202.2	0.6230	391.6	1.373
0.1881E-02	0.1092E+06	0.3613E+05	200.7	0.6267	395.2	1.391
0.2082E-02	0.1090E+06	0.3602E+05	200.3	0.6259	395.9	1.395
0.2290E-02	0.1146E+06	0.3592E+05	196.6	0.6361	405.1	1.441
0.2491E-02	0.1155E+06	0.3591E+05	196.0	0.6380	406.4	1.448
0.2820E-02	0.1229E+06	0.3587E+05	191.4	0.6525	417.4	1.504
0.3189E-02	0.1280E+06	0.3581E+05	188.2	0.6623	424.6	1.543
0.3654E-02	0.1286E+06	0.3599E+05	188.1	0.6661	424.5	1.543
0.4103E-02	0.1379E+06	0.3604E+05	183.3	0.6846	435.4	1.604
0.4481E-02	0.1401E+06	0.3601E+05	181.8	0.6895	438.4	1.621
0.4769E-02	0.1445E+06	0.3600E+05	179.6	0.6979	443.3	1.650
0.5178E-02	0.1501E+06	0.3597E+05	176.5	0.7095	449.9	1.689
0.5652E-02	0.1484E+06	0.3577E+05	177.0	0.7037	448.5	1.681
0.6093E-02	0.1559E+06	0.3569E+05	172.8	0.7190	457.3	1.735
0.6494E-02	0.1608E+06	0.3550E+05	170.3	0.7261	462.6	1.768
0.7272E-02	0.1692E+06	0.3542E+05	165.9	0.7432	471.4	1.825
0.8051E-02	0.1758E+06	0.3533E+05	162.7	0.7560	477.6	1.867
0.8757E-02	0.1860E+06	0.3529E+05	158.5	0.7751	485.8	1.924
0.9559E-02	0.1972E+06	0.3520E+05	153.5	0.7985	495.5	1.995
0.1046E-01	0.2020E+06	0.3513E+05	151.4	0.8081	499.1	2.023
0.1132E-01	0.2118E+06	0.3498E+05	147.4	0.8260	506.4	2.080
0.1207E-01	0.2172E+06	0.3483E+05	145.0	0.8364	510.7	2.115
0.1285E-01	0.2312E+06	0.3475E+05	140.3	0.8620	519.3	2.186
0.1355E-01	0.2375E+06	0.3463E+05	137.6	0.8764	524.1	2.228
0.1450E-01	0.2446E+06	0.3450E+05	135.2	0.8883	527.9	2.264
0.1537E-01	0.2557E+06	0.3468E+05	132.1	0.9140	533.2	2.313
0.1611E-01	0.2630E+06	0.3494E+05	130.3	0.9333	536.1	2.342
0.1682E-01	0.2729E+06	0.3514E+05	128.2	0.9544	539.7	2.377
0.1761E-01	0.2850E+06	0.3517E+05	124.8	0.9807	545.3	2.434
0.1848E-01	0.2938E+06	0.3528E+05	122.8	1.001	548.6	2.469
0.1935E-01	0.3014E+06	0.3518E+05	120.7	1.015	551.8	2.505
0.2012E-01	0.3078E+06	0.3512E+05	118.7	1.030	554.9	2.540
0.2087E-01	0.3083E+06	0.3505E+05	118.6	1.029	554.6	2.540
0.2161E-01	0.3102E+06	0.3487E+05	117.7	1.031	555.7	2.554
0.2248E-01	0.3136E+06	0.3475E+05	116.5	1.039	557.4	2.575
0.2406E-01	0.3157E+06	0.3461E+05	115.5	1.043	558.1	2.589
0.2572E-01	0.3180E+06	0.3458E+05	114.5	1.051	558.8	2.604
0.2730E-01	0.3182E+06	0.3428E+05	113.6	1.051	559.5	2.618
0.2891E-01	0.3187E+06	0.3438E+05	113.7	1.053	558.2	2.611
0.3046E-01	0.3175E+06	0.3445E+05	113.9	1.053	557.2	2.604
0.3200E-01	0.3169E+06	0.3426E+05	113.5	1.051	557.8	2.611
0.3355E-01	0.3147E+06	0.3405E+05	113.5	1.044	557.8	2.611
0.3512E-01	0.3147E+06	0.3386E+05	113.2	1.042	558.5	2.618
0.3670E-01	0.3147E+06	0.3378E+05	113.2	1.039	558.5	2.618
0.3831E-01	0.3132E+06	0.3371E+05	113.2	1.037	558.5	2.618
0.3991E-01	0.3129E+06	0.3359E+05	113.2	1.033	558.5	2.618

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6884E+06

AVERAGE STAGNATION TEMPERATURE = 266.2

X = 0.3175

Z = -0.7620E-03

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.3470E-03	0.8104E+05	0.3989E+05	226.1	0.6143	319.1	1.058
0.4834E-03	0.8836E+05	0.3989E+05	220.2	0.6308	337.1	1.133
0.7080E-03	0.9483E+05	0.3989E+05	215.6	0.6442	350.2	1.189
0.8765E-03	0.9864E+05	0.3989E+05	213.0	0.6520	357.4	1.221
0.1109E-02	0.1040E+06	0.3989E+05	209.2	0.6637	367.6	1.267
0.1294E-02	0.1081E+06	0.3989E+05	206.6	0.6721	374.5	1.299
0.1494E-02	0.1111E+06	0.4071E+05	206.0	0.6879	376.0	1.306
0.1695E-02	0.1131E+06	0.4066E+05	204.8	0.6911	378.9	1.320
0.1871E-02	0.1152E+06	0.4061E+05	203.4	0.6952	382.6	1.338
0.2104E-02	0.1200E+06	0.4050E+05	200.5	0.7033	390.0	1.373
0.2313E-02	0.1194E+06	0.4043E+05	200.4	0.7023	389.9	1.373
0.2617E-02	0.1280E+06	0.4023E+05	195.3	0.7173	402.7	1.437
0.2994E-02	0.1318E+06	0.4013E+05	192.9	0.7241	408.2	1.466
0.3452E-02	0.1364E+06	0.4016E+05	190.6	0.7338	413.5	1.494
0.3925E-02	0.1402E+06	0.4009E+05	188.2	0.7415	418.8	1.522
0.4238E-02	0.1463E+06	0.4008E+05	185.1	0.7539	425.9	1.561
0.4607E-02	0.1496E+06	0.4009E+05	183.4	0.7611	429.7	1.582
0.5032E-02	0.1525E+06	0.4004E+05	181.9	0.7663	432.8	1.600
0.5530E-02	0.1580E+06	0.3982E+05	178.8	0.7753	439.5	1.639
0.5907E-02	0.1641E+06	0.3978E+05	175.8	0.7878	446.1	1.678
0.6284E-02	0.1654E+06	0.3966E+05	174.9	0.7894	447.8	1.689
0.7126E-02	0.1764E+06	0.3934E+05	169.4	0.8085	459.2	1.759
0.7792E-02	0.1863E+06	0.3926E+05	165.0	0.8282	468.3	1.818
0.8707E-02	0.1954E+06	0.3912E+05	161.3	0.8444	475.5	1.867
0.9461E-02	0.2052E+06	0.3905E+05	157.1	0.8652	483.6	1.924
0.1026E-01	0.2168E+06	0.3906E+05	153.1	0.8884	491.4	1.981
0.1112E-01	0.2242E+06	0.3924E+05	150.5	0.9075	496.0	2.016
0.1184E-01	0.2436E+06	0.3951E+05	144.8	0.9498	507.0	2.101
0.1277E-01	0.2500E+06	0.3989E+05	143.3	0.9694	509.4	2.122
0.1348E-01	0.2589E+06	0.3992E+05	140.9	0.9866	513.6	2.158
0.1435E-01	0.2651E+06	0.3970E+05	138.5	0.9979	517.6	2.193
0.1515E-01	0.2833E+06	0.3952E+05	133.2	1.033	527.2	2.278
0.1587E-01	0.2862E+06	0.3932E+05	131.8	1.038	529.4	2.299
0.1679E-01	0.2986E+06	0.3898E+05	128.0	1.060	536.0	2.363
0.1754E-01	0.3043E+06	0.3866E+05	125.8	1.069	539.5	2.398
0.1833E-01	0.3091E+06	0.3836E+05	124.1	1.076	542.2	2.427
0.1917E-01	0.3165E+06	0.3809E+05	121.7	1.090	546.2	2.469
0.1986E-01	0.3220E+06	0.3787E+05	120.0	1.098	548.7	2.497
0.2080E-01	0.3201E+06	0.3745E+05	119.5	1.091	549.1	2.505
0.2156E-01	0.3257E+06	0.3728E+05	117.9	1.101	551.5	2.533
0.2236E-01	0.3240E+06	0.3703E+05	117.8	1.095	551.2	2.533
0.2395E-01	0.3253E+06	0.3661E+05	116.4	1.095	552.7	2.554
0.2558E-01	0.3244E+06	0.3632E+05	115.8	1.092	552.7	2.561
0.2717E-01	0.3250E+06	0.3613E+05	114.9	1.095	553.5	2.575
0.2876E-01	0.3241E+06	0.3596E+05	114.6	1.092	552.9	2.575
0.3032E-01	0.3242E+06	0.3586E+05	114.1	1.094	553.1	2.582
0.3188E-01	0.3222E+06	0.3558E+05	114.1	1.086	553.1	2.582
0.3342E-01	0.3214E+06	0.3514E+05	113.4	1.079	554.4	2.597
0.3502E-01	0.3179E+06	0.3465E+05	113.4	1.064	554.4	2.597
0.3661E-01	0.3198E+06	0.3461E+05	112.6	1.070	555.6	2.611
0.3817E-01	0.3207E+06	0.3491E+05	113.0	1.076	555.0	2.604
0.3975E-01	0.3223E+06	0.3513E+05	113.4	1.079	554.4	2.597

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6893E+06

AVERAGE STAGNATION TEMPERATURE = 263.5

X = 0.3429

Z = 0.1270E-02

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.4170E-03	0.8804E+05	0.4287E+05	222.9	0.6695	320.1	1.069
0.5935E-03	0.9365E+05	0.4287E+05	219.0	0.6815	332.0	1.119
0.7941E-03	0.9881E+05	0.4287E+05	215.3	0.6931	342.7	1.165
0.9866E-03	0.1022E+06	0.4287E+05	213.1	0.7005	349.2	1.193
0.1195E-02	0.1076E+06	0.4287E+05	209.6	0.7120	358.7	1.235
0.1380E-02	0.1080E+06	0.4287E+05	209.3	0.7131	359.4	1.239
0.1612E-02	0.1127E+06	0.4344E+05	207.3	0.7297	364.8	1.264
0.1829E-02	0.1158E+06	0.4328E+05	205.2	0.7341	370.2	1.289
0.1997E-02	0.1194E+06	0.4335E+05	203.2	0.7427	375.4	1.313
0.2206E-02	0.1232E+06	0.4327E+05	200.9	0.7498	381.4	1.342
0.2342E-02	0.1257E+06	0.4321E+05	199.5	0.7540	385.0	1.359
0.2808E-02	0.1297E+06	0.4298E+05	196.9	0.7602	391.4	1.391
0.3249E-02	0.1340E+06	0.4287E+05	194.2	0.7684	397.7	1.423
0.3610E-02	0.1389E+06	0.4287E+05	191.6	0.7789	403.9	1.455
0.3891E-02	0.1420E+06	0.4291E+05	190.2	0.7855	407.2	1.473
0.4372E-02	0.1495E+06	0.4297E+05	186.5	0.8023	415.9	1.519
0.4862E-02	0.1521E+06	0.4302E+05	185.3	0.8085	418.4	1.533
0.5271E-02	0.1601E+06	0.4306E+05	181.6	0.8253	426.7	1.579
0.5616E-02	0.1617E+06	0.4301E+05	180.7	0.8285	428.5	1.589
0.5929E-02	0.1674E+06	0.4293E+05	178.0	0.8398	434.7	1.625
0.6362E-02	0.1736E+06	0.4284E+05	175.2	0.8512	440.7	1.660
0.7276E-02	0.1824E+06	0.4265E+05	171.1	0.8680	449.4	1.713
0.8039E-02	0.1928E+06	0.4240E+05	166.4	0.8874	459.2	1.775
0.8769E-02	0.2030E+06	0.4223E+05	162.1	0.9067	467.8	1.832
0.9675E-02	0.2119E+06	0.4206E+05	158.5	0.9241	474.9	1.881
0.1032E-01	0.2234E+06	0.4184E+05	154.4	0.9434	482.9	1.938
0.1120E-01	0.2321E+06	0.4160E+05	150.9	0.9599	489.6	1.988
0.1211E-01	0.2453E+06	0.4143E+05	146.5	0.9846	497.9	2.051
0.1290E-01	0.2553E+06	0.4126E+05	143.1	1.004	504.1	2.101
0.1360E-01	0.2678E+06	0.4125E+05	139.4	1.030	510.9	2.158
0.1438E-01	0.2742E+06	0.4120E+05	137.5	1.043	514.1	2.186
0.1528E-01	0.2868E+06	0.4106E+05	133.5	1.071	521.3	2.250
0.1609E-01	0.2981E+06	0.4096E+05	130.5	1.093	526.6	2.299
0.1689E-01	0.3031E+06	0.4087E+05	129.1	1.102	528.7	2.320
0.1764E-01	0.3144E+06	0.4065E+05	126.1	1.122	533.8	2.370
0.1836E-01	0.3194E+06	0.4050E+05	124.4	1.133	536.5	2.398
0.1929E-01	0.3257E+06	0.4031E+05	122.7	1.143	539.1	2.427
0.2004E-01	0.3307E+06	0.4012E+05	121.1	1.154	541.7	2.455
0.2078E-01	0.3326E+06	0.4001E+05	120.2	1.159	542.8	2.469
0.2172E-01	0.3357E+06	0.3996E+05	119.3	1.166	543.9	2.483
0.2246E-01	0.3383E+06	0.3991E+05	118.8	1.170	544.3	2.490
0.2408E-01	0.3397E+06	0.3983E+05	118.2	1.173	544.4	2.497
0.2570E-01	0.3401E+06	0.3966E+05	117.5	1.175	544.5	2.505
0.2730E-01	0.3381E+06	0.3920E+05	116.6	1.171	545.3	2.519
0.2887E-01	0.3376E+06	0.3891E+05	116.0	1.168	545.4	2.526
0.3048E-01	0.3353E+06	0.3854E+05	115.8	1.159	545.0	2.526
0.3206E-01	0.3328E+06	0.3803E+05	115.4	1.147	545.7	2.533
0.3357E-01	0.3300E+06	0.3742E+05	114.7	1.136	547.0	2.547
0.3516E-01	0.3273E+06	0.3680E+05	114.3	1.121	547.6	2.554
0.3676E-01	0.3254E+06	0.3625E+05	113.6	1.111	549.0	2.568
0.3834E-01	0.3227E+06	0.3584E+05	113.3	1.102	549.6	2.575
0.3997E-01	0.3220E+06	0.3540E+05	112.6	1.095	550.9	2.589

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6894E+06

AVERAGE STAGNATION TEMPERATURE = 265.9

X = 0.3683

Z = 0.0000E+00

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.3970E-03	0.8874E+05	0.4365E+05	225.5	0.6738	319.8	1.062
0.5254E-03	0.9720E+05	0.4365E+05	219.6	0.6919	337.7	1.136
0.7099E-03	0.1030E+06	0.4365E+05	215.9	0.7038	348.4	1.182
0.9425E-03	0.1054E+06	0.4365E+05	214.2	0.7096	353.2	1.204
0.1151E-02	0.1101E+06	0.4365E+05	211.3	0.7193	361.1	1.239
0.1368E-02	0.1128E+06	0.4365E+05	209.5	0.7254	365.8	1.260
0.1544E-02	0.1178E+06	0.4383E+05	206.9	0.7374	372.7	1.292
0.1769E-02	0.1203E+06	0.4361E+05	205.1	0.7401	377.2	1.313
0.1913E-02	0.1227E+06	0.4355E+05	203.7	0.7444	380.9	1.331
0.2122E-02	0.1260E+06	0.4353E+05	201.7	0.7516	386.1	1.356
0.2347E-02	0.1264E+06	0.4345E+05	201.3	0.7514	386.7	1.359
0.2756E-02	0.1318E+06	0.4323E+05	198.1	0.7598	394.6	1.398
0.3165E-02	0.1350E+06	0.4316E+05	196.0	0.7666	399.5	1.423
0.3430E-02	0.1405E+06	0.4302E+05	192.9	0.7766	407.1	1.462
0.3855E-02	0.1442E+06	0.4309E+05	191.1	0.7851	411.2	1.483
0.4352E-02	0.1481E+06	0.4318E+05	189.3	0.7942	415.1	1.504
0.4793E-02	0.1541E+06	0.4321E+05	186.4	0.8070	421.6	1.540
0.5130E-02	0.1597E+06	0.4320E+05	183.9	0.8180	427.4	1.572
0.5435E-02	0.1638E+06	0.4325E+05	181.9	0.8278	431.8	1.596
0.5820E-02	0.1666E+06	0.4333E+05	180.7	0.8349	434.2	1.611
0.6374E-02	0.1700E+06	0.4324E+05	179.0	0.8413	437.8	1.632
0.7056E-02	0.1799E+06	0.4315E+05	174.5	0.8607	447.3	1.689
0.7978E-02	0.1877E+06	0.4303E+05	171.1	0.8754	454.1	1.731
0.8684E-02	0.2031E+06	0.4299E+05	165.2	0.9062	466.6	1.811
0.9535E-02	0.2140E+06	0.4299E+05	160.9	0.9301	475.0	1.867
0.1037E-01	0.2254E+06	0.4305E+05	157.3	0.9529	482.1	1.917
0.1106E-01	0.2322E+06	0.4305E+05	154.7	0.9688	486.9	1.952
0.1203E-01	0.2418E+06	0.4303E+05	151.6	0.9880	492.5	1.995
0.1275E-01	0.2567E+06	0.4307E+05	147.2	1.018	500.9	2.058
0.1355E-01	0.2691E+06	0.4318E+05	143.4	1.048	507.9	2.115
0.1447E-01	0.2760E+06	0.4332E+05	141.9	1.063	510.3	2.136
0.1513E-01	0.2903E+06	0.4335E+05	138.2	1.092	517.0	2.193
0.1606E-01	0.3010E+06	0.4341E+05	135.5	1.116	521.7	2.235
0.1676E-01	0.3109E+06	0.4358E+05	133.2	1.139	525.6	2.271
0.1757E-01	0.3238E+06	0.4373E+05	130.2	1.170	530.8	2.320
0.1846E-01	0.3315E+06	0.4376E+05	128.4	1.187	533.6	2.349
0.1914E-01	0.3367E+06	0.4369E+05	127.0	1.197	535.7	2.370
0.2007E-01	0.3439E+06	0.4351E+05	125.3	1.209	538.3	2.398
0.2077E-01	0.3472E+06	0.4344E+05	124.4	1.216	539.5	2.412
0.2160E-01	0.3504E+06	0.4330E+05	123.1	1.225	541.4	2.434
0.2248E-01	0.3521E+06	0.4298E+05	122.2	1.225	542.5	2.448
0.2399E-01	0.3512E+06	0.4247E+05	121.2	1.220	543.4	2.462
0.2561E-01	0.3500E+06	0.4189E+05	120.1	1.214	544.2	2.476
0.2730E-01	0.3490E+06	0.4154E+05	119.5	1.210	544.3	2.483
0.2874E-01	0.3461E+06	0.4106E+05	119.3	1.199	543.8	2.483
0.3045E-01	0.3422E+06	0.4024E+05	118.3	1.184	544.7	2.497
0.3200E-01	0.3393E+06	0.3943E+05	117.6	1.168	546.1	2.512
0.3350E-01	0.3375E+06	0.3897E+05	117.2	1.158	546.8	2.519
0.3518E-01	0.3361E+06	0.3864E+05	116.8	1.151	547.5	2.526
0.3663E-01	0.3344E+06	0.3842E+05	116.8	1.145	547.5	2.526
0.3830E-01	0.3310E+06	0.3801E+05	116.8	1.133	547.5	2.526
0.3987E-01	0.3294E+06	0.3741E+05	116.1	1.122	548.8	2.540

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6882E+06

AVERAGE STAGNATION TEMPERATURE = 267.0

X = 0.3937

Z = -5.080E-03

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.4170E-03	0.9238E+05	0.4251E+05	222.3	0.6659	333.4	1.115
0.5855E-03	0.1015E+06	0.4251E+05	216.0	0.6852	351.6	1.193
0.7860E-03	0.1061E+06	0.4251E+05	213.1	0.6945	359.6	1.228
0.9946E-03	0.1104E+06	0.4251E+05	210.2	0.7041	367.4	1.264
0.1195E-02	0.1157E+06	0.4251E+05	207.0	0.7150	375.8	1.303
0.1404E-02	0.1180E+06	0.4251E+05	205.5	0.7201	379.6	1.320
0.1612E-02	0.1216E+06	0.4270E+05	203.8	0.7295	384.0	1.342
0.1813E-02	0.1237E+06	0.4250E+05	202.3	0.7316	387.7	1.359
0.2022E-02	0.1245E+06	0.4250E+05	201.7	0.7338	389.1	1.366
0.2182E-02	0.1281E+06	0.4244E+05	199.6	0.7402	394.2	1.391
0.2415E-02	0.1319E+06	0.4223E+05	197.3	0.7452	399.8	1.419
0.2816E-02	0.1337E+06	0.4221E+05	196.1	0.7494	402.6	1.434
0.3201E-02	0.1381E+06	0.4198E+05	193.4	0.7556	408.7	1.466
0.3466E-02	0.1415E+06	0.4210E+05	191.7	0.7645	412.8	1.487
0.3915E-02	0.1466E+06	0.4210E+05	189.1	0.7752	418.7	1.519
0.4420E-02	0.1442E+06	0.4225E+05	190.3	0.7727	415.2	1.501
0.4845E-02	0.1527E+06	0.4221E+05	186.1	0.7898	425.1	1.554
0.5207E-02	0.1580E+06	0.4224E+05	183.8	0.8002	430.2	1.582
0.5495E-02	0.1656E+06	0.4230E+05	180.2	0.8174	438.3	1.628
0.5880E-02	0.1675E+06	0.4215E+05	179.0	0.8198	440.7	1.643
0.6402E-02	0.1691E+06	0.4210E+05	178.3	0.8219	441.8	1.650
0.7140E-02	0.1779E+06	0.4191E+05	173.9	0.8391	451.2	1.706
0.8022E-02	0.1860E+06	0.4186E+05	170.5	0.8547	457.9	1.749
0.8720E-02	0.1982E+06	0.4180E+05	165.3	0.8802	468.7	1.818
0.9611E-02	0.2067E+06	0.4185E+05	162.1	0.8990	474.9	1.860
0.1042E-01	0.2178E+06	0.4176E+05	157.9	0.9207	483.0	1.917
0.1110E-01	0.2266E+06	0.4176E+05	154.8	0.9390	488.9	1.959
0.1207E-01	0.2396E+06	0.4166E+05	150.3	0.9647	497.4	2.023
0.1276E-01	0.2465E+06	0.4163E+05	148.3	0.9773	501.0	2.051
0.1363E-01	0.2548E+06	0.4175E+05	145.8	0.9968	505.3	2.087
0.1449E-01	0.2692E+06	0.4165E+05	141.1	1.028	514.0	2.158
0.1521E-01	0.2796E+06	0.4173E+05	138.3	1.050	518.9	2.200
0.1609E-01	0.2891E+06	0.4157E+05	135.6	1.068	523.6	2.243
0.1678E-01	0.2933E+06	0.4159E+05	134.6	1.076	525.0	2.257
0.1763E-01	0.3056E+06	0.4143E+05	131.1	1.100	531.1	2.313
0.1849E-01	0.3204E+06	0.4144E+05	127.7	1.130	537.0	2.370
0.1917E-01	0.3284E+06	0.4135E+05	125.6	1.147	540.5	2.405
0.2008E-01	0.3298E+06	0.4130E+05	125.0	1.150	540.9	2.412
0.2081E-01	0.3361E+06	0.4114E+05	123.3	1.161	543.5	2.441
0.2169E-01	0.3398E+06	0.4102E+05	122.0	1.170	545.4	2.462
0.2250E-01	0.3422E+06	0.4093E+05	121.1	1.176	546.5	2.476
0.2404E-01	0.3435E+06	0.4084E+05	120.5	1.180	546.6	2.483
0.2565E-01	0.3470E+06	0.4098E+05	119.9	1.190	546.8	2.490
0.2730E-01	0.3462E+06	0.4100E+05	119.6	1.194	546.2	2.490
0.2879E-01	0.3480E+06	0.4095E+05	119.0	1.198	546.3	2.497
0.3052E-01	0.3486E+06	0.4106E+05	118.8	1.203	545.9	2.497
0.3203E-01	0.3494E+06	0.4104E+05	118.8	1.203	545.9	2.497
0.3358E-01	0.3477E+06	0.4068E+05	118.4	1.196	546.5	2.505
0.3521E-01	0.3437E+06	0.4071E+05	119.2	1.189	545.2	2.490
0.3672E-01	0.3496E+06	0.4119E+05	119.2	1.203	545.2	2.490
0.3839E-01	0.3474E+06	0.4129E+05	119.6	1.202	544.5	2.483
0.3994E-01	0.3447E+06	0.4086E+05	119.6	1.190	544.5	2.483

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6892E+06

AVERAGE STAGNATION TEMPERATURE = 267.9

X = 0.4191

Z = 0.7620E-03

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.3970E-03	0.9238E+05	0.4100E+05	220.5	0.6474	341.5	1.147
0.5173E-03	0.1022E+06	0.4100E+05	213.9	0.6674	360.2	1.228
0.7821E-03	0.1090E+06	0.4100E+05	209.5	0.6813	372.0	1.281
0.9345E-03	0.1144E+06	0.4100E+05	206.1	0.6928	381.1	1.324
0.1191E-02	0.1172E+06	0.4100E+05	204.3	0.6988	385.5	1.345
0.1320E-02	0.1184E+06	0.4100E+05	203.7	0.7009	387.0	1.352
0.1560E-02	0.1240E+06	0.4099E+05	200.2	0.7129	395.7	1.395
0.1761E-02	0.1245E+06	0.4077E+05	199.6	0.7113	397.1	1.402
0.1953E-02	0.1292E+06	0.4086E+05	197.2	0.7212	402.8	1.430
0.2122E-02	0.1298E+06	0.4086E+05	196.6	0.7234	404.1	1.437
0.2338E-02	0.1298E+06	0.4065E+05	196.3	0.7209	404.8	1.441
0.2651E-02	0.1341E+06	0.4063E+05	194.0	0.7292	410.3	1.469
0.3173E-02	0.1356E+06	0.4057E+05	193.0	0.7319	412.2	1.480
0.3462E-02	0.1425E+06	0.4073E+05	189.5	0.7482	420.2	1.522
0.3895E-02	0.1467E+06	0.4082E+05	187.5	0.7580	424.8	1.547
0.4368E-02	0.1468E+06	0.4093E+05	187.7	0.7594	424.0	1.543
0.4761E-02	0.1538E+06	0.4101E+05	184.2	0.7749	431.7	1.586
0.5130E-02	0.1573E+06	0.4093E+05	182.2	0.7820	436.0	1.611
0.5459E-02	0.1602E+06	0.4077E+05	180.5	0.7862	439.7	1.632
0.5876E-02	0.1630E+06	0.4071E+05	179.1	0.7916	442.6	1.650
0.6358E-02	0.1721E+06	0.4058E+05	174.9	0.8077	451.6	1.703
0.7088E-02	0.1785E+06	0.4052E+05	171.8	0.8210	457.8	1.742
0.7970E-02	0.1854E+06	0.4027E+05	168.6	0.8314	464.1	1.782
0.8692E-02	0.1938E+06	0.4026E+05	164.9	0.8502	471.7	1.832
0.9591E-02	0.2008E+06	0.4020E+05	162.1	0.8632	476.8	1.867
0.1038E-01	0.2109E+06	0.4018E+05	158.0	0.8856	484.9	1.924
0.1109E-01	0.2212E+06	0.4021E+05	154.4	0.9068	491.7	1.974
0.1204E-01	0.2289E+06	0.4016E+05	151.8	0.9211	496.3	2.009
0.1275E-01	0.2383E+06	0.4032E+05	148.8	0.9434	501.8	2.051
0.1359E-01	0.2506E+06	0.4027E+05	144.9	0.9674	508.9	2.108
0.1445E-01	0.2618E+06	0.4031E+05	141.6	0.9909	514.9	2.158
0.1521E-01	0.2701E+06	0.4013E+05	138.8	1.007	519.8	2.200
0.1603E-01	0.2792E+06	0.4013E+05	136.0	1.027	524.5	2.243
0.1676E-01	0.2884E+06	0.4002E+05	133.4	1.045	529.2	2.285
0.1763E-01	0.2964E+06	0.3996E+05	131.1	1.061	532.8	2.320
0.1844E-01	0.3066E+06	0.3994E+05	128.5	1.082	537.2	2.363
0.1919E-01	0.3139E+06	0.3988E+05	126.4	1.099	540.7	2.398
0.2008E-01	0.3236E+06	0.3977E+05	123.9	1.118	544.7	2.441
0.2074E-01	0.3273E+06	0.3983E+05	123.0	1.128	545.9	2.455
0.2163E-01	0.3315E+06	0.3984E+05	122.1	1.136	547.0	2.469
0.2248E-01	0.3337E+06	0.3977E+05	121.5	1.139	547.4	2.476
0.2408E-01	0.3392E+06	0.4025E+05	120.9	1.159	547.5	2.483
0.2561E-01	0.3489E+06	0.4125E+05	120.3	1.194	547.7	2.490
0.2735E-01	0.3506E+06	0.4224E+05	121.5	1.210	544.3	2.462
0.2882E-01	0.3526E+06	0.4231E+05	120.9	1.218	544.4	2.469
0.3047E-01	0.3513E+06	0.4209E+05	120.7	1.214	544.0	2.469
0.3207E-01	0.3498E+06	0.4187E+05	120.3	1.211	544.7	2.476
0.3352E-01	0.3499E+06	0.4168E+05	120.3	1.206	544.7	2.476
0.3526E-01	0.3493E+06	0.4180E+05	120.3	1.209	544.7	2.476
0.3676E-01	0.3472E+06	0.4198E+05	121.1	1.207	543.3	2.462
0.3838E-01	0.3470E+06	0.4218E+05	121.5	1.209	542.6	2.455
0.3998E-01	0.3466E+06	0.4219E+05	121.9	1.205	541.9	2.448

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6878E+06

AVERAGE STAGNATION TEMPERATURE = 270.7

X = 0.4445

Z = 0.1270E-02

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.2770E-03	0.8280E+05	0.3963E+05	227.9	0.6053	327.9	1.083
0.4294E-03	0.9663E+05	0.3963E+05	217.6	0.6341	358.1	1.211
0.6220E-03	0.1041E+06	0.3963E+05	212.3	0.6498	372.4	1.274
0.8547E-03	0.1122E+06	0.3963E+05	207.4	0.6654	385.4	1.335
0.1136E-02	0.1151E+06	0.3963E+05	205.3	0.6722	390.5	1.359
0.1328E-02	0.1187E+06	0.3985E+05	203.5	0.6818	394.9	1.381
0.1496E-02	0.1220E+06	0.3965E+05	201.1	0.6863	400.7	1.409
0.1705E-02	0.1239E+06	0.3961E+05	199.9	0.6897	403.5	1.423
0.1882E-02	0.1286E+06	0.3962E+05	197.3	0.6990	409.8	1.455
0.2122E-02	0.1286E+06	0.3951E+05	197.0	0.6984	410.5	1.458
0.2339E-02	0.1312E+06	0.3936E+05	195.2	0.7020	414.6	1.480
0.2756E-02	0.1362E+06	0.3942E+05	192.5	0.7128	420.6	1.512
0.3125E-02	0.1385E+06	0.3928E+05	191.0	0.7159	423.9	1.529
0.3502E-02	0.1396E+06	0.3941E+05	190.7	0.7195	424.4	1.533
0.3903E-02	0.1448E+06	0.3967E+05	188.3	0.7334	429.6	1.561
0.4337E-02	0.1465E+06	0.3972E+05	187.4	0.7380	431.4	1.572
0.4714E-02	0.1517E+06	0.3967E+05	184.8	0.7474	437.1	1.604
0.5067E-02	0.1543E+06	0.3966E+05	183.3	0.7531	440.2	1.621
0.5468E-02	0.1579E+06	0.3961E+05	181.6	0.7596	443.8	1.643
0.5893E-02	0.1628E+06	0.3947E+05	178.8	0.7688	449.9	1.678
0.6286E-02	0.1670E+06	0.3941E+05	176.8	0.7761	454.0	1.703
0.7097E-02	0.1739E+06	0.3923E+05	173.1	0.7890	461.4	1.749
0.7955E-02	0.1800E+06	0.3923E+05	170.4	0.8015	466.6	1.782
0.8677E-02	0.1868E+06	0.3918E+05	167.6	0.8138	471.9	1.818
0.9600E-02	0.1921E+06	0.3910E+05	164.8	0.8257	477.1	1.853
0.1033E-01	0.2041E+06	0.3918E+05	160.1	0.8518	486.4	1.917
0.1115E-01	0.2131E+06	0.3929E+05	157.0	0.8713	492.3	1.959
0.1189E-01	0.2229E+06	0.3962E+05	154.4	0.8934	497.0	1.995
0.1280E-01	0.2303E+06	0.4025E+05	152.7	0.9174	499.6	2.016
0.1356E-01	0.2469E+06	0.4079E+05	148.3	0.9574	507.9	2.080
0.1447E-01	0.2573E+06	0.4115E+05	145.8	0.9824	512.2	2.115
0.1524E-01	0.2647E+06	0.4123E+05	143.8	0.9979	515.5	2.143
0.1603E-01	0.2773E+06	0.4135E+05	140.1	1.027	522.2	2.200
0.1680E-01	0.2891E+06	0.4143E+05	137.3	1.050	527.0	2.243
0.1757E-01	0.2989E+06	0.4143E+05	134.6	1.072	531.6	2.285
0.1842E-01	0.3091E+06	0.4137E+05	131.9	1.092	536.1	2.328
0.1916E-01	0.3197E+06	0.4137E+05	129.3	1.114	540.5	2.370
0.2010E-01	0.3210E+06	0.4153E+05	129.2	1.119	540.1	2.370
0.2081E-01	0.3299E+06	0.4144E+05	126.6	1.139	544.4	2.412
0.2164E-01	0.3306E+06	0.4147E+05	126.5	1.142	544.1	2.412
0.2235E-01	0.3323E+06	0.4150E+05	126.0	1.147	544.6	2.420
0.2401E-01	0.3340E+06	0.4169E+05	125.7	1.155	544.0	2.420
0.2573E-01	0.3349E+06	0.4220E+05	126.2	1.164	541.9	2.405
0.2735E-01	0.3357E+06	0.4247E+05	126.3	1.171	540.5	2.398
0.2900E-01	0.3354E+06	0.4254E+05	126.1	1.175	540.0	2.398
0.3056E-01	0.3356E+06	0.4224E+05	125.5	1.172	540.3	2.405
0.3213E-01	0.3361E+06	0.4186E+05	124.7	1.169	541.8	2.420
0.3354E-01	0.3375E+06	0.4160E+05	123.9	1.169	543.3	2.434
0.3510E-01	0.3377E+06	0.4140E+05	123.5	1.167	544.0	2.441
0.3669E-01	0.3383E+06	0.4127E+05	123.1	1.167	544.7	2.448
0.3829E-01	0.3390E+06	0.4128E+05	123.1	1.167	544.7	2.448
0.3987E-01	0.3398E+06	0.4114E+05	122.7	1.167	545.4	2.455

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6884E+06

AVERAGE STAGNATION TEMPERATURE = 258.3

X = 0.4564

Z = -1.1524E-02

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.2270E-03	0.8750E+05	0.4017E+05	214.8	0.6511	328.7	1.119
0.3710E-03	0.9923E+05	0.4017E+05	206.8	0.6762	352.2	1.221
0.5631E-03	0.1072E+06	0.4017E+05	201.8	0.6930	366.0	1.285
0.7471E-03	0.1129E+06	0.4017E+05	198.2	0.7058	375.7	1.331
0.9471E-03	0.1156E+06	0.4017E+05	196.7	0.7109	379.3	1.349
0.1163E-02	0.1196E+06	0.4017E+05	194.2	0.7201	385.8	1.381
0.1347E-02	0.1248E+06	0.3923E+05	189.8	0.7197	397.0	1.437
0.1547E-02	0.1258E+06	0.3912E+05	188.9	0.7210	399.0	1.448
0.1747E-02	0.1277E+06	0.3904E+05	187.8	0.7239	401.7	1.462
0.1939E-02	0.1280E+06	0.3898E+05	187.4	0.7241	402.4	1.466
0.2179E-02	0.1311E+06	0.3889E+05	185.5	0.7300	407.0	1.490
0.2515E-02	0.1376E+06	0.3882E+05	182.2	0.7419	414.9	1.533
0.2868E-02	0.1382E+06	0.3884E+05	181.8	0.7438	415.4	1.536
0.3284E-02	0.1430E+06	0.3885E+05	179.3	0.7543	421.1	1.568
0.3732E-02	0.1460E+06	0.3910E+05	178.1	0.7642	423.5	1.582
0.4164E-02	0.1485E+06	0.3930E+05	177.2	0.7719	425.3	1.593
0.4548E-02	0.1532E+06	0.3941E+05	175.0	0.7838	430.1	1.621
0.4876E-02	0.1552E+06	0.3947E+05	174.2	0.7888	431.9	1.632
0.5260E-02	0.1578E+06	0.3959E+05	173.3	0.7952	433.6	1.643
0.5748E-02	0.1650E+06	0.3969E+05	170.1	0.8124	440.7	1.685
0.6148E-02	0.1682E+06	0.3962E+05	168.4	0.8189	444.1	1.706
0.6860E-02	0.1735E+06	0.3953E+05	166.0	0.8292	449.0	1.738
0.7709E-02	0.1828E+06	0.3954E+05	162.1	0.8490	456.9	1.789
0.8533E-02	0.1939E+06	0.3952E+05	157.5	0.8735	466.4	1.853
0.9237E-02	0.2000E+06	0.3969E+05	155.4	0.8891	470.4	1.881
0.1017E-01	0.2073E+06	0.3986E+05	153.3	0.9053	474.2	1.910
0.1095E-01	0.2153E+06	0.3980E+05	150.3	0.9220	479.9	1.952
0.1169E-01	0.2223E+06	0.3974E+05	147.8	0.9360	484.6	1.988
0.1258E-01	0.2345E+06	0.3970E+05	143.5	0.9632	492.8	2.051
0.1326E-01	0.2472E+06	0.3962E+05	139.4	0.9899	500.7	2.115
0.1419E-01	0.2514E+06	0.3943E+05	137.9	0.9955	503.0	2.136
0.1494E-01	0.2601E+06	0.3939E+05	135.2	1.015	508.0	2.179
0.1577E-01	0.2742E+06	0.3933E+05	131.2	1.044	515.1	2.243
0.1658E-01	0.2857E+06	0.3921E+05	127.8	1.068	521.2	2.299
0.1725E-01	0.2924E+06	0.3918E+05	126.1	1.082	524.1	2.328
0.1817E-01	0.2979E+06	0.3924E+05	124.7	1.095	526.0	2.349
0.1890E-01	0.3142E+06	0.3929E+05	120.7	1.133	533.2	2.420
0.1976E-01	0.3201E+06	0.3937E+05	119.5	1.147	535.0	2.441
0.2058E-01	0.3244E+06	0.3958E+05	119.0	1.158	535.4	2.448
0.2129E-01	0.3283E+06	0.3982E+05	118.5	1.170	535.9	2.455
0.2220E-01	0.3351E+06	0.4000E+05	117.2	1.188	537.6	2.476
0.2367E-01	0.3431E+06	0.4017E+05	115.5	1.211	539.8	2.505
0.2542E-01	0.3446E+06	0.4023E+05	115.3	1.215	539.2	2.505
0.2697E-01	0.3469E+06	0.4021E+05	114.3	1.225	540.0	2.519
0.2853E-01	0.3461E+06	0.4025E+05	114.4	1.224	538.8	2.512
0.3016E-01	0.3469E+06	0.4021E+05	113.9	1.230	538.9	2.519
0.3163E-01	0.3487E+06	0.4023E+05	113.9	1.230	538.9	2.519
0.3329E-01	0.3490E+06	0.4042E+05	113.9	1.236	538.9	2.519
0.3479E-01	0.3474E+06	0.4030E+05	114.2	1.229	538.2	2.512
0.3637E-01	0.3469E+06	0.3997E+05	113.5	1.226	539.6	2.526
0.3804E-01	0.3434E+06	0.3958E+05	113.5	1.214	539.6	2.526
0.3956E-01	0.3449E+06	0.3955E+05	113.1	1.217	540.2	2.533

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6876E+06

AVERAGE STAGNATION TEMPERATURE = 269.6

X = 0.4191

Z = 0.4724E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.2270E-03	0.8394E+05	0.4100E+05	228.4	0.6249	322.9	1.065
0.3473E-03	0.9576E+05	0.4100E+05	219.6	0.6500	349.2	1.175
0.5800E-03	0.1045E+06	0.4100E+05	213.8	0.6677	365.3	1.246
0.7645E-03	0.1120E+06	0.4100E+05	208.8	0.6835	378.5	1.306
0.1021E-02	0.1158E+06	0.4100E+05	206.5	0.6913	384.5	1.335
0.1150E-02	0.1206E+06	0.4100E+05	203.6	0.7012	391.9	1.370
0.1382E-02	0.1239E+06	0.4139E+05	202.4	0.7121	394.8	1.384
0.1583E-02	0.1270E+06	0.4124E+05	200.3	0.7168	399.8	1.409
0.1816E-02	0.1292E+06	0.4109E+05	198.8	0.7196	403.4	1.427
0.1968E-02	0.1340E+06	0.4111E+05	196.2	0.7294	409.7	1.458
0.2177E-02	0.1359E+06	0.4103E+05	195.0	0.7325	412.4	1.473
0.2578E-02	0.1396E+06	0.4087E+05	192.7	0.7385	417.8	1.501
0.2923E-02	0.1442E+06	0.4092E+05	190.3	0.7485	423.1	1.529
0.3276E-02	0.1457E+06	0.4082E+05	189.4	0.7504	424.9	1.540
0.3725E-02	0.1506E+06	0.4105E+05	187.3	0.7629	429.4	1.565
0.4182E-02	0.1520E+06	0.4117E+05	186.7	0.7679	430.6	1.572
0.4543E-02	0.1571E+06	0.4115E+05	184.1	0.7783	436.3	1.604
0.4920E-02	0.1606E+06	0.4112E+05	182.3	0.7851	440.0	1.625
0.5290E-02	0.1686E+06	0.4103E+05	178.4	0.8006	448.5	1.674
0.5755E-02	0.1707E+06	0.4091E+05	177.2	0.8036	450.8	1.689
0.6236E-02	0.1742E+06	0.4078E+05	175.5	0.8088	454.2	1.710
0.6838E-02	0.1824E+06	0.4063E+05	171.7	0.8241	462.2	1.759
0.7729E-02	0.1910E+06	0.4058E+05	167.7	0.8427	470.2	1.811
0.8523E-02	0.2024E+06	0.4054E+05	163.4	0.8639	478.6	1.867
0.9245E-02	0.2134E+06	0.4048E+05	159.2	0.8854	486.8	1.924
0.1022E-01	0.2220E+06	0.4043E+05	155.5	0.9050	493.6	1.974
0.1093E-01	0.2308E+06	0.4038E+05	152.5	0.9219	499.2	2.016
0.1176E-01	0.2442E+06	0.4029E+05	148.1	0.9472	507.5	2.080
0.1261E-01	0.2517E+06	0.4028E+05	145.6	0.9634	511.8	2.115
0.1327E-01	0.2657E+06	0.4022E+05	141.4	0.9906	519.5	2.179
0.1424E-01	0.2731E+06	0.4012E+05	139.0	1.005	523.5	2.214
0.1500E-01	0.2856E+06	0.4009E+05	135.4	1.031	529.8	2.271
0.1577E-01	0.2979E+06	0.4004E+05	131.9	1.057	535.9	2.328
0.1666E-01	0.3045E+06	0.3999E+05	130.0	1.071	538.7	2.356
0.1737E-01	0.3092E+06	0.3991E+05	128.7	1.080	540.8	2.377
0.1821E-01	0.3205E+06	0.3989E+05	126.1	1.101	544.9	2.420
0.1899E-01	0.3263E+06	0.3995E+05	124.8	1.114	546.8	2.441
0.1979E-01	0.3315E+06	0.3994E+05	123.5	1.126	548.7	2.462
0.2069E-01	0.3342E+06	0.3995E+05	122.6	1.134	549.8	2.476
0.2133E-01	0.3344E+06	0.3991E+05	122.5	1.134	549.6	2.476
0.2223E-01	0.3344E+06	0.3988E+05	122.4	1.135	549.2	2.476
0.2377E-01	0.3345E+06	0.4013E+05	122.5	1.141	548.0	2.469
0.2555E-01	0.3345E+06	0.4055E+05	123.0	1.148	545.9	2.455
0.2699E-01	0.3346E+06	0.4070E+05	122.7	1.155	545.4	2.455
0.2867E-01	0.3346E+06	0.4060E+05	122.5	1.154	544.8	2.455
0.3027E-01	0.3349E+06	0.4036E+05	121.9	1.153	545.0	2.462
0.3177E-01	0.3351E+06	0.4028E+05	121.5	1.155	545.7	2.469
0.3341E-01	0.3360E+06	0.4020E+05	121.1	1.156	546.4	2.476
0.3485E-01	0.3381E+06	0.4029E+05	121.1	1.158	546.4	2.476
0.3659E-01	0.3394E+06	0.4044E+05	121.1	1.163	546.4	2.476
0.3814E-01	0.3411E+06	0.4076E+05	121.1	1.172	546.4	2.476
0.3972E-01	0.3430E+06	0.4103E+05	121.1	1.180	546.4	2.476

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6876E+06

AVERAGE STAGNATION TEMPERATURE = 267.7

X = 0.4196

Z = 0.3810E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.1770E-03	0.8318E+05	0.4054E+05	226.6	0.6230	322.7	1.069
0.3294E-03	0.9487E+05	0.4054E+05	218.1	0.6473	348.0	1.175
0.4979E-03	0.1049E+06	0.4054E+05	211.2	0.6684	367.2	1.260
0.7226E-03	0.1121E+06	0.4054E+05	206.5	0.6834	379.5	1.317
0.8991E-03	0.1161E+06	0.4054E+05	204.2	0.6912	385.5	1.345
0.1100E-02	0.1204E+06	0.4054E+05	201.6	0.7002	392.0	1.377
0.1372E-02	0.1239E+06	0.4130E+05	200.9	0.7157	393.4	1.384
0.1533E-02	0.1262E+06	0.4134E+05	199.5	0.7215	397.0	1.402
0.1741E-02	0.1291E+06	0.4127E+05	197.7	0.7267	401.2	1.423
0.1950E-02	0.1326E+06	0.4112E+05	195.7	0.7317	406.1	1.448
0.2135E-02	0.1343E+06	0.4101E+05	194.5	0.7341	408.9	1.462
0.2456E-02	0.1394E+06	0.4104E+05	191.9	0.7447	415.0	1.494
0.2784E-02	0.1445E+06	0.4091E+05	189.0	0.7536	421.6	1.529
0.3258E-02	0.1471E+06	0.4091E+05	187.5	0.7595	424.8	1.547
0.3739E-02	0.1494E+06	0.4097E+05	186.3	0.7658	427.3	1.561
0.4140E-02	0.1538E+06	0.4105E+05	184.3	0.7757	431.7	1.586
0.4493E-02	0.1570E+06	0.4131E+05	183.1	0.7857	434.1	1.600
0.4766E-02	0.1619E+06	0.4130E+05	180.8	0.7953	439.1	1.628
0.5312E-02	0.1633E+06	0.4107E+05	179.6	0.7961	441.4	1.643
0.5745E-02	0.1704E+06	0.4100E+05	176.3	0.8099	448.6	1.685
0.6114E-02	0.1732E+06	0.4095E+05	174.8	0.8153	451.5	1.703
0.6868E-02	0.1815E+06	0.4078E+05	171.0	0.8304	459.4	1.752
0.7670E-02	0.1943E+06	0.4073E+05	165.5	0.8571	470.7	1.825
0.8561E-02	0.1987E+06	0.4067E+05	163.7	0.8646	473.7	1.846
0.9227E-02	0.2103E+06	0.4062E+05	159.1	0.8890	483.0	1.910
0.1013E-01	0.2237E+06	0.4054E+05	154.5	0.9138	491.9	1.974
0.1093E-01	0.2333E+06	0.4058E+05	150.9	0.9360	498.4	2.023
0.1171E-01	0.2413E+06	0.4053E+05	148.4	0.9507	502.9	2.058
0.1264E-01	0.2527E+06	0.4053E+05	144.6	0.9762	510.0	2.115
0.1328E-01	0.2639E+06	0.4054E+05	141.3	0.9991	515.9	2.165
0.1416E-01	0.2724E+06	0.4054E+05	138.9	1.016	519.9	2.200
0.1499E-01	0.2823E+06	0.4067E+05	136.1	1.040	524.7	2.243
0.1569E-01	0.2973E+06	0.4062E+05	132.2	1.070	531.7	2.306
0.1664E-01	0.3015E+06	0.4065E+05	131.2	1.079	533.0	2.320
0.1731E-01	0.3154E+06	0.4066E+05	127.8	1.108	538.9	2.377
0.1817E-01	0.3227E+06	0.4054E+05	125.7	1.123	542.3	2.412
0.1901E-01	0.3278E+06	0.4047E+05	124.3	1.133	544.2	2.434
0.1967E-01	0.3343E+06	0.4040E+05	122.7	1.147	546.8	2.462
0.2065E-01	0.3344E+06	0.4029E+05	122.5	1.145	546.5	2.462
0.2136E-01	0.3351E+06	0.4024E+05	122.0	1.148	546.9	2.469
0.2222E-01	0.3349E+06	0.4010E+05	121.5	1.149	547.3	2.476
0.2377E-01	0.3353E+06	0.4028E+05	121.6	1.153	546.0	2.469
0.2547E-01	0.3350E+06	0.4045E+05	121.7	1.157	544.7	2.462
0.2696E-01	0.3352E+06	0.4021E+05	121.1	1.156	544.9	2.469
0.2868E-01	0.3356E+06	0.3980E+05	120.1	1.154	545.7	2.483
0.3022E-01	0.3408E+06	0.3951E+05	118.0	1.166	548.6	2.519
0.3178E-01	0.3399E+06	0.3931E+05	118.0	1.160	548.6	2.519
0.3336E-01	0.3395E+06	0.3922E+05	118.0	1.157	548.6	2.519
0.3484E-01	0.3393E+06	0.3922E+05	118.0	1.157	548.6	2.519
0.3659E-01	0.3396E+06	0.3969E+05	118.7	1.164	547.3	2.505
0.3805E-01	0.3412E+06	0.4049E+05	119.9	1.176	545.2	2.483
0.3975E-01	0.3477E+06	0.4134E+05	119.9	1.201	545.2	2.483

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6866E+06

AVERAGE STAGNATION TEMPERATURE = 269.1

X = 0.4191

Z = 0.2540E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.3770E-03	0.8574E+05	0.4100E+05	226.6	0.6300	326.9	1.083
0.4653E-03	0.9876E+05	0.4100E+05	217.2	0.6573	354.6	1.200
0.6578E-03	0.1080E+06	0.4100E+05	211.1	0.6763	371.3	1.274
0.8985E-03	0.1150E+06	0.4100E+05	206.7	0.6906	382.7	1.327
0.1067E-02	0.1197E+06	0.4100E+05	203.8	0.7005	390.1	1.363
0.1300E-02	0.1233E+06	0.4100E+05	201.7	0.7077	395.2	1.388
0.1452E-02	0.1260E+06	0.4099E+05	200.2	0.7127	398.8	1.405
0.1709E-02	0.1291E+06	0.4101E+05	198.5	0.7193	403.0	1.427
0.1917E-02	0.1301E+06	0.4113E+05	197.8	0.7239	404.4	1.434
0.2110E-02	0.1342E+06	0.4081E+05	195.2	0.7277	410.6	1.466
0.2303E-02	0.1378E+06	0.4068E+05	192.9	0.7341	416.1	1.494
0.2776E-02	0.1412E+06	0.4064E+05	191.1	0.7403	420.0	1.515
0.3257E-02	0.1442E+06	0.4070E+05	189.6	0.7473	423.2	1.533
0.3578E-02	0.1470E+06	0.4074E+05	188.1	0.7539	426.5	1.550
0.3947E-02	0.1532E+06	0.4086E+05	185.3	0.7679	432.9	1.586
0.4308E-02	0.1575E+06	0.4095E+05	183.2	0.7781	437.2	1.611
0.4814E-02	0.1621E+06	0.4093E+05	180.9	0.7876	442.1	1.639
0.5207E-02	0.1651E+06	0.4082E+05	179.5	0.7919	445.1	1.657
0.5584E-02	0.1667E+06	0.4072E+05	178.3	0.7950	447.4	1.671
0.5977E-02	0.1734E+06	0.4060E+05	175.3	0.8066	453.9	1.710
0.6322E-02	0.1783E+06	0.4048E+05	172.8	0.8158	459.1	1.742
0.7164E-02	0.1857E+06	0.4036E+05	169.6	0.8288	465.4	1.782
0.7975E-02	0.1969E+06	0.4017E+05	164.2	0.8517	476.2	1.853
0.8745E-02	0.2049E+06	0.4014E+05	161.0	0.8680	482.3	1.896
0.9636E-02	0.2154E+06	0.4016E+05	157.3	0.8887	489.3	1.945
0.1029E-01	0.2277E+06	0.4002E+05	152.8	0.9116	498.0	2.009
0.1124E-01	0.2346E+06	0.4004E+05	150.2	0.9279	502.5	2.044
0.1197E-01	0.2478E+06	0.4002E+05	145.9	0.9550	510.6	2.108
0.1282E-01	0.2541E+06	0.4005E+05	143.9	0.9689	513.9	2.136
0.1369E-01	0.2662E+06	0.3999E+05	140.6	0.9903	519.7	2.186
0.1439E-01	0.2770E+06	0.3988E+05	137.0	1.014	526.3	2.243
0.1531E-01	0.2878E+06	0.3975E+05	133.8	1.035	531.6	2.292
0.1599E-01	0.2942E+06	0.3972E+05	132.0	1.048	534.6	2.320
0.1686E-01	0.3069E+06	0.3976E+05	129.0	1.074	539.7	2.370
0.1772E-01	0.3138E+06	0.3962E+05	126.8	1.088	543.1	2.405
0.1838E-01	0.3201E+06	0.3954E+05	125.1	1.100	545.8	2.434
0.1932E-01	0.3248E+06	0.3963E+05	124.1	1.111	546.9	2.448
0.2002E-01	0.3303E+06	0.3955E+05	122.9	1.121	548.8	2.469
0.2090E-01	0.3323E+06	0.3950E+05	122.0	1.128	549.9	2.483
0.2170E-01	0.3323E+06	0.3952E+05	121.8	1.129	549.6	2.483
0.2248E-01	0.3323E+06	0.3940E+05	121.7	1.127	549.3	2.483
0.2410E-01	0.3324E+06	0.3970E+05	121.8	1.134	548.1	2.476
0.2575E-01	0.3324E+06	0.4027E+05	122.7	1.142	545.3	2.455
0.2726E-01	0.3326E+06	0.4039E+05	122.5	1.148	544.8	2.455
0.2896E-01	0.3324E+06	0.4015E+05	121.8	1.148	544.9	2.462
0.3059E-01	0.3329E+06	0.4002E+05	121.3	1.149	545.2	2.469
0.3218E-01	0.3365E+06	0.3991E+05	120.5	1.153	546.6	2.483
0.3362E-01	0.3398E+06	0.3988E+05	119.7	1.160	548.0	2.497
0.3520E-01	0.3407E+06	0.4004E+05	119.7	1.164	548.0	2.497
0.3683E-01	0.3413E+06	0.4024E+05	120.1	1.166	547.3	2.490
0.3831E-01	0.3421E+06	0.4032E+05	120.1	1.169	547.3	2.490
0.3990E-01	0.3425E+06	0.4038E+05	120.1	1.170	547.3	2.490

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6903E+06

AVERAGE STAGNATION TEMPERATURE = 267.3

X = 0.4191

Z = 0.1270E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.1770E-03	0.8210E+05	0.4100E+05	227.9	0.6264	317.2	1.048
0.3522E-03	0.9546E+05	0.4100E+05	218.0	0.6548	346.9	1.172
0.5592E-03	0.1048E+06	0.4100E+05	211.7	0.6743	364.6	1.250
0.7821E-03	0.1093E+06	0.4100E+05	208.8	0.6837	372.3	1.285
0.9413E-03	0.1144E+06	0.4100E+05	205.6	0.6943	380.7	1.324
0.1132E-02	0.1189E+06	0.4100E+05	203.0	0.7033	387.3	1.356
0.1363E-02	0.1207E+06	0.4071E+05	201.2	0.7044	391.7	1.377
0.1554E-02	0.1252E+06	0.4074E+05	198.9	0.7132	397.4	1.405
0.1730E-02	0.1259E+06	0.4077E+05	198.3	0.7159	398.8	1.412
0.1952E-02	0.1278E+06	0.4067E+05	197.1	0.7185	401.6	1.427
0.2159E-02	0.1311E+06	0.4046E+05	194.8	0.7233	407.2	1.455
0.2573E-02	0.1347E+06	0.4045E+05	193.0	0.7298	411.2	1.476
0.2995E-02	0.1384E+06	0.4033E+05	190.6	0.7365	416.5	1.504
0.3481E-02	0.1424E+06	0.4046E+05	188.6	0.7471	421.1	1.529
0.3768E-02	0.1448E+06	0.4062E+05	187.7	0.7536	423.0	1.540
0.4126E-02	0.1515E+06	0.4067E+05	184.5	0.7673	430.1	1.579
0.4612E-02	0.1518E+06	0.4070E+05	184.1	0.7696	430.6	1.582
0.5010E-02	0.1577E+06	0.4068E+05	181.3	0.7812	436.8	1.618
0.5432E-02	0.1597E+06	0.4061E+05	180.1	0.7850	439.2	1.632
0.5782E-02	0.1672E+06	0.4048E+05	176.5	0.7983	447.1	1.678
0.6124E-02	0.1702E+06	0.4034E+05	174.8	0.8033	450.5	1.699
0.7016E-02	0.1797E+06	0.4024E+05	170.4	0.8221	459.6	1.756
0.7757E-02	0.1894E+06	0.4015E+05	166.2	0.8410	468.1	1.811
0.8553E-02	0.1972E+06	0.4008E+05	163.0	0.8561	474.4	1.853
0.9421E-02	0.2047E+06	0.4004E+05	159.8	0.8724	480.5	1.896
0.1012E-01	0.2155E+06	0.4007E+05	156.2	0.8933	487.5	1.945
0.1104E-01	0.2259E+06	0.4019E+05	152.6	0.9169	494.1	1.995
0.1172E-01	0.2338E+06	0.4015E+05	149.6	0.9343	499.7	2.037
0.1258E-01	0.2436E+06	0.4016E+05	146.7	0.9533	505.0	2.080
0.1347E-01	0.2565E+06	0.4013E+05	142.4	0.9813	512.9	2.143
0.1409E-01	0.2701E+06	0.4015E+05	138.7	1.008	519.6	2.200
0.1503E-01	0.2723E+06	0.4010E+05	137.7	1.014	521.0	2.214
0.1578E-01	0.2917E+06	0.4017E+05	132.8	1.053	529.7	2.292
0.1665E-01	0.2974E+06	0.4041E+05	131.4	1.071	531.8	2.313
0.1741E-01	0.3082E+06	0.4046E+05	128.8	1.094	536.2	2.356
0.1818E-01	0.3156E+06	0.4061E+05	127.5	1.109	538.2	2.377
0.1892E-01	0.3238E+06	0.4076E+05	125.7	1.128	540.9	2.405
0.1978E-01	0.3317E+06	0.4088E+05	124.0	1.148	543.5	2.434
0.2061E-01	0.3340E+06	0.4086E+05	123.1	1.156	544.6	2.448
0.2136E-01	0.3343E+06	0.4074E+05	123.0	1.153	544.4	2.448
0.2216E-01	0.3343E+06	0.4078E+05	122.9	1.156	544.1	2.448
0.2369E-01	0.3346E+06	0.4096E+05	123.0	1.160	542.8	2.441
0.2533E-01	0.3344E+06	0.4166E+05	123.9	1.171	540.1	2.420
0.2690E-01	0.3344E+06	0.4241E+05	124.8	1.183	537.3	2.398
0.2848E-01	0.3347E+06	0.4248E+05	124.6	1.187	536.7	2.398
0.3008E-01	0.3347E+06	0.4235E+05	124.3	1.186	536.2	2.398
0.3163E-01	0.3346E+06	0.4201E+05	123.5	1.184	537.7	2.412
0.3319E-01	0.3390E+06	0.4183E+05	122.4	1.190	539.8	2.434
0.3472E-01	0.3475E+06	0.4177E+05	120.4	1.208	543.4	2.469
0.3631E-01	0.3508E+06	0.4203E+05	120.4	1.215	543.4	2.469
0.3787E-01	0.3523E+06	0.4239E+05	120.4	1.225	543.4	2.469
0.3944E-01	0.3540E+06	0.4273E+05	120.8	1.231	542.7	2.462

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6904E+06

AVERAGE STAGNATION TEMPERATURE = 264.1

X = 0.4191

Z = -1.1194E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.1970E-03	0.8165E+05	0.4155E+05	226.5	0.6386	310.9	1.030
0.3960E-03	0.9344E+05	0.4155E+05	217.6	0.6647	338.2	1.143
0.5632E-03	0.1020E+06	0.4155E+05	211.7	0.6834	355.3	1.218
0.7464E-03	0.1083E+06	0.4155E+05	207.7	0.6965	366.2	1.267
0.9454E-03	0.1133E+06	0.4155E+05	204.8	0.7063	373.8	1.303
0.1152E-02	0.1180E+06	0.4155E+05	201.9	0.7163	381.3	1.338
0.1351E-02	0.1192E+06	0.4123E+05	200.8	0.7151	384.2	1.352
0.1574E-02	0.1233E+06	0.4107E+05	197.9	0.7226	391.4	1.388
0.1734E-02	0.1238E+06	0.4098E+05	197.6	0.7221	392.1	1.391
0.1965E-02	0.1274E+06	0.4104E+05	195.6	0.7307	397.1	1.416
0.2172E-02	0.1286E+06	0.4097E+05	194.7	0.7327	399.1	1.427
0.2490E-02	0.1332E+06	0.4076E+05	191.8	0.7399	406.0	1.462
0.2952E-02	0.1379E+06	0.4080E+05	189.5	0.7498	411.4	1.490
0.3422E-02	0.1388E+06	0.4084E+05	188.8	0.7531	412.6	1.497
0.3764E-02	0.1452E+06	0.4081E+05	185.7	0.7651	419.8	1.536
0.4154E-02	0.1481E+06	0.4095E+05	184.2	0.7739	423.0	1.554
0.4472E-02	0.1531E+06	0.4110E+05	182.2	0.7852	427.4	1.579
0.4918E-02	0.1552E+06	0.4110E+05	181.0	0.7903	429.8	1.593
0.5404E-02	0.1591E+06	0.4097E+05	179.0	0.7967	434.1	1.618
0.5762E-02	0.1623E+06	0.4090E+05	177.4	0.8029	437.7	1.639
0.6152E-02	0.1698E+06	0.4079E+05	173.8	0.8170	445.5	1.685
0.6885E-02	0.1771E+06	0.4056E+05	170.2	0.8295	452.9	1.731
0.7800E-02	0.1827E+06	0.4048E+05	167.4	0.8417	458.3	1.766
0.8445E-02	0.1978E+06	0.4042E+05	161.6	0.8711	470.5	1.846
0.9353E-02	0.2019E+06	0.4032E+05	159.4	0.8809	474.5	1.874
0.1014E-01	0.2111E+06	0.4021E+05	155.8	0.8986	481.5	1.924
0.1088E-01	0.2294E+06	0.4016E+05	149.4	0.9358	494.1	2.016
0.1178E-01	0.2344E+06	0.4011E+05	147.8	0.9447	496.7	2.037
0.1247E-01	0.2443E+06	0.4004E+05	144.5	0.9649	503.0	2.087
0.1333E-01	0.2563E+06	0.4000E+05	140.7	0.9899	509.8	2.143
0.1415E-01	0.2652E+06	0.3992E+05	137.9	1.008	514.7	2.186
0.1493E-01	0.2772E+06	0.3985E+05	134.3	1.033	521.2	2.243
0.1575E-01	0.2834E+06	0.3984E+05	132.5	1.047	524.1	2.271
0.1643E-01	0.2921E+06	0.3983E+05	130.3	1.064	527.9	2.306
0.1737E-01	0.3039E+06	0.3988E+05	127.3	1.091	533.0	2.356
0.1809E-01	0.3089E+06	0.3988E+05	126.0	1.102	535.0	2.377
0.1892E-01	0.3210E+06	0.4000E+05	123.5	1.128	539.1	2.420
0.1976E-01	0.3299E+06	0.4009E+05	121.4	1.150	542.4	2.455
0.2045E-01	0.3356E+06	0.4012E+05	120.1	1.163	544.3	2.476
0.2133E-01	0.3368E+06	0.4027E+05	120.0	1.168	543.9	2.476
0.2209E-01	0.3387E+06	0.4032E+05	119.5	1.175	544.4	2.483
0.2373E-01	0.3470E+06	0.4066E+05	118.1	1.198	545.8	2.505
0.2531E-01	0.3548E+06	0.4167E+05	118.2	1.227	544.6	2.497
0.2695E-01	0.3542E+06	0.4214E+05	118.7	1.236	542.6	2.483
0.2848E-01	0.3536E+06	0.4194E+05	118.5	1.232	542.1	2.483
0.2999E-01	0.3525E+06	0.4174E+05	117.9	1.233	542.2	2.490
0.3166E-01	0.3513E+06	0.4156E+05	117.9	1.227	542.2	2.490
0.3316E-01	0.3509E+06	0.4139E+05	117.9	1.222	542.2	2.490
0.3474E-01	0.3535E+06	0.4148E+05	117.5	1.229	542.9	2.497
0.3632E-01	0.3548E+06	0.4173E+05	117.5	1.236	542.9	2.497
0.3781E-01	0.3536E+06	0.4168E+05	117.9	1.231	542.2	2.490
0.3953E-01	0.3528E+06	0.4162E+05	117.9	1.229	542.2	2.490

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6890E+06

AVERAGE STAGNATION TEMPERATURE = 259.2

X = 0.4191

Z = -0.2540E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.1970E-03	0.8663E+05	0.4216E+05	219.4	0.6691	317.5	1.069
0.3010E-03	0.9712E+05	0.4216E+05	212.0	0.6925	340.0	1.165
0.5091E-03	0.1066E+06	0.4216E+05	206.1	0.7121	356.7	1.239
0.7171E-03	0.1113E+06	0.4216E+05	203.0	0.7230	365.1	1.278
0.9572E-03	0.1141E+06	0.4216E+05	201.3	0.7292	369.6	1.299
0.1053E-02	0.1183E+06	0.4216E+05	199.1	0.7374	375.6	1.327
0.1189E-02	0.1211E+06	0.4216E+05	197.4	0.7437	379.9	1.349
0.1397E-02	0.1254E+06	0.4140E+05	193.7	0.7441	389.3	1.395
0.1613E-02	0.1295E+06	0.4136E+05	191.5	0.7521	394.9	1.423
0.1797E-02	0.1286E+06	0.4134E+05	192.0	0.7497	393.4	1.416
0.2005E-02	0.1307E+06	0.4127E+05	190.5	0.7540	396.8	1.434
0.2485E-02	0.1342E+06	0.4107E+05	188.2	0.7597	402.2	1.462
0.2886E-02	0.1373E+06	0.4112E+05	186.8	0.7665	405.5	1.480
0.3238E-02	0.1440E+06	0.4101E+05	183.2	0.7795	414.1	1.526
0.3558E-02	0.1469E+06	0.4107E+05	181.8	0.7868	417.2	1.543
0.4086E-02	0.1499E+06	0.4131E+05	180.6	0.7965	419.7	1.558
0.4310E-02	0.1571E+06	0.4138E+05	177.6	0.8114	426.6	1.596
0.4822E-02	0.1598E+06	0.4133E+05	176.1	0.8170	429.6	1.614
0.5262E-02	0.1651E+06	0.4135E+05	173.6	0.8290	435.0	1.646
0.5702E-02	0.1675E+06	0.4116E+05	172.2	0.8320	437.9	1.664
0.6094E-02	0.1731E+06	0.4107E+05	169.6	0.8432	443.7	1.699
0.6918E-02	0.1817E+06	0.4097E+05	165.8	0.8604	451.5	1.749
0.7527E-02	0.1899E+06	0.4082E+05	162.2	0.8760	458.9	1.797
0.8495E-02	0.2008E+06	0.4071E+05	158.1	0.8966	467.2	1.853
0.9215E-02	0.2100E+06	0.4073E+05	154.5	0.9177	474.3	1.903
0.1005E-01	0.2228E+06	0.4070E+05	150.1	0.9443	483.0	1.966
0.1094E-01	0.2340E+06	0.4074E+05	146.2	0.9704	490.4	2.023
0.1161E-01	0.2438E+06	0.4080E+05	143.3	0.9914	495.8	2.066
0.1251E-01	0.2537E+06	0.4071E+05	140.0	1.012	501.8	2.115
0.1322E-01	0.2688E+06	0.4069E+05	135.9	1.042	509.4	2.179
0.1414E-01	0.2822E+06	0.4074E+05	132.4	1.071	515.8	2.235
0.1492E-01	0.2863E+06	0.4067E+05	131.0	1.081	517.9	2.257
0.1561E-01	0.2998E+06	0.4068E+05	127.6	1.110	524.0	2.313
0.1654E-01	0.3087E+06	0.4076E+05	125.4	1.131	527.5	2.349
0.1722E-01	0.3172E+06	0.4079E+05	123.8	1.148	530.3	2.377
0.1807E-01	0.3269E+06	0.4070E+05	121.3	1.168	534.4	2.420
0.1898E-01	0.3306E+06	0.4059E+05	120.0	1.178	536.2	2.441
0.1959E-01	0.3383E+06	0.4058E+05	118.4	1.193	538.8	2.469
0.2056E-01	0.3419E+06	0.4049E+05	117.2	1.203	540.5	2.490
0.2122E-01	0.3437E+06	0.4043E+05	116.7	1.206	541.0	2.497
0.2219E-01	0.3470E+06	0.4053E+05	116.2	1.215	541.3	2.505
0.2363E-01	0.3502E+06	0.4106E+05	116.3	1.229	540.1	2.497
0.2541E-01	0.3507E+06	0.4132E+05	116.4	1.236	538.8	2.490
0.2695E-01	0.3484E+06	0.4098E+05	115.8	1.232	538.9	2.497
0.2847E-01	0.3472E+06	0.4067E+05	115.2	1.229	539.1	2.505
0.3012E-01	0.3480E+06	0.4049E+05	114.6	1.230	539.2	2.512
0.3156E-01	0.3483E+06	0.4056E+05	114.6	1.232	539.2	2.512
0.3328E-01	0.3507E+06	0.4100E+05	115.0	1.242	538.5	2.505
0.3479E-01	0.3521E+06	0.4135E+05	115.3	1.248	537.8	2.497
0.3632E-01	0.3486E+06	0.4139E+05	116.1	1.241	536.5	2.483
0.3799E-01	0.3497E+06	0.4123E+05	115.7	1.241	537.1	2.490
0.3941E-01	0.3506E+06	0.4123E+05	115.3	1.245	537.8	2.497

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6919E+06

AVERAGE STAGNATION TEMPERATURE = 265.1

X = 0.4191

Z = -0.2667E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.2270E-03	0.8783E+05	0.4221E+05	223.5	0.6575	323.7	1.080
0.4340E-03	0.9959E+05	0.4221E+05	215.3	0.6824	347.9	1.182
0.5853E-03	0.1073E+06	0.4221E+05	210.2	0.6991	362.3	1.246
0.8162E-03	0.1125E+06	0.4221E+05	207.0	0.7098	370.8	1.285
0.1015E-02	0.1162E+06	0.4221E+05	204.7	0.7178	376.8	1.313
0.1182E-02	0.1183E+06	0.4221E+05	203.5	0.7220	379.8	1.327
0.1453E-02	0.1236E+06	0.4146E+05	199.2	0.7245	390.8	1.381
0.1604E-02	0.1247E+06	0.4141E+05	198.6	0.7257	392.2	1.388
0.1803E-02	0.1276E+06	0.4142E+05	196.9	0.7324	396.4	1.409
0.2010E-02	0.1290E+06	0.4139E+05	196.0	0.7352	398.5	1.419
0.2202E-02	0.1317E+06	0.4129E+05	194.3	0.7400	402.7	1.441
0.2616E-02	0.1368E+06	0.4114E+05	191.4	0.7484	409.5	1.476
0.3022E-02	0.1409E+06	0.4104E+05	189.1	0.7558	414.8	1.504
0.3364E-02	0.1421E+06	0.4107E+05	188.4	0.7588	416.1	1.512
0.3754E-02	0.1474E+06	0.4124E+05	185.8	0.7726	421.9	1.543
0.4216E-02	0.1524E+06	0.4137E+05	183.8	0.7837	426.3	1.568
0.4614E-02	0.1569E+06	0.4143E+05	181.5	0.7945	431.3	1.596
0.4988E-02	0.1600E+06	0.4143E+05	180.1	0.8010	434.4	1.614
0.5346E-02	0.1651E+06	0.4134E+05	177.6	0.8105	439.9	1.646
0.5697E-02	0.1678E+06	0.4123E+05	176.2	0.8148	442.8	1.664
0.6238E-02	0.1708E+06	0.4110E+05	174.4	0.8204	446.3	1.685
0.6907E-02	0.1814E+06	0.4093E+05	169.6	0.8405	456.6	1.749
0.7846E-02	0.1906E+06	0.4080E+05	165.4	0.8591	465.1	1.804
0.8515E-02	0.2014E+06	0.4084E+05	161.7	0.8795	472.5	1.853
0.9327E-02	0.2088E+06	0.4081E+05	158.5	0.8965	478.6	1.896
0.1016E-01	0.2227E+06	0.4078E+05	153.4	0.9253	488.5	1.966
0.1094E-01	0.2359E+06	0.4077E+05	149.0	0.9525	496.9	2.030
0.1183E-01	0.2445E+06	0.4070E+05	146.0	0.9703	502.3	2.073
0.1250E-01	0.2593E+06	0.4073E+05	141.8	0.9998	510.2	2.136
0.1336E-01	0.2631E+06	0.4080E+05	140.8	1.009	511.7	2.151
0.1418E-01	0.2733E+06	0.4090E+05	138.0	1.032	516.6	2.193
0.1492E-01	0.2895E+06	0.4086E+05	133.5	1.065	524.6	2.264
0.1578E-01	0.2962E+06	0.4075E+05	131.3	1.081	528.3	2.299
0.1651E-01	0.3109E+06	0.4077E+05	127.9	1.110	534.3	2.356
0.1737E-01	0.3192E+06	0.4081E+05	125.8	1.130	537.7	2.391
0.1817E-01	0.3260E+06	0.4080E+05	124.4	1.142	539.7	2.412
0.1892E-01	0.3332E+06	0.4079E+05	122.8	1.157	542.3	2.441
0.1978E-01	0.3363E+06	0.4068E+05	121.5	1.166	544.1	2.462
0.2050E-01	0.3406E+06	0.4060E+05	120.6	1.172	545.3	2.476
0.2139E-01	0.3430E+06	0.4053E+05	119.7	1.179	546.3	2.490
0.2216E-01	0.3418E+06	0.4063E+05	119.9	1.179	545.4	2.483
0.2378E-01	0.3503E+06	0.4117E+05	118.9	1.205	546.2	2.497
0.2526E-01	0.3490E+06	0.4154E+05	119.5	1.211	544.2	2.483
0.2702E-01	0.3475E+06	0.4113E+05	118.8	1.206	544.3	2.490
0.2852E-01	0.3467E+06	0.4081E+05	118.2	1.202	544.5	2.497
0.3012E-01	0.3467E+06	0.4072E+05	118.0	1.202	543.9	2.497
0.3168E-01	0.3491E+06	0.4077E+05	117.6	1.207	544.6	2.505
0.3315E-01	0.3481E+06	0.4108E+05	118.3	1.209	543.2	2.490
0.3484E-01	0.3492E+06	0.4144E+05	118.7	1.216	542.5	2.483
0.3630E-01	0.3508E+06	0.4152E+05	118.3	1.222	543.2	2.490
0.3797E-01	0.3510E+06	0.4144E+05	118.3	1.219	543.2	2.490
0.3951E-01	0.3516E+06	0.4139E+05	118.0	1.222	543.9	2.497

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6899E+06

AVERAGE STAGNATION TEMPERATURE = 261.2

X = 0.4186

Z = -0.3810E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.2770E-03	0.8824E+05	0.4268E+05	220.8	0.6731	319.6	1.073
0.5411E-03	0.9893E+05	0.4268E+05	213.3	0.6968	342.1	1.168
0.6611E-03	0.1059E+06	0.4268E+05	208.8	0.7117	354.9	1.225
0.7811E-03	0.1097E+06	0.4268E+05	206.5	0.7195	361.1	1.253
0.9731E-03	0.1142E+06	0.4268E+05	203.7	0.7296	368.8	1.289
0.1277E-02	0.1175E+06	0.4268E+05	201.6	0.7369	374.0	1.313
0.1501E-02	0.1196E+06	0.4186E+05	199.1	0.7320	380.6	1.345
0.1597E-02	0.1221E+06	0.4184E+05	197.7	0.7369	384.2	1.363
0.1949E-02	0.1277E+06	0.4174E+05	194.5	0.7471	392.1	1.402
0.2029E-02	0.1286E+06	0.4173E+05	193.9	0.7491	393.5	1.409
0.2285E-02	0.1306E+06	0.4169E+05	192.8	0.7529	396.2	1.423
0.2750E-02	0.1360E+06	0.4144E+05	189.4	0.7619	404.4	1.466
0.3086E-02	0.1382E+06	0.4151E+05	188.4	0.7669	406.3	1.476
0.3366E-02	0.1412E+06	0.4142E+05	186.7	0.7723	410.3	1.497
0.3814E-02	0.1474E+06	0.4153E+05	183.6	0.7873	417.5	1.536
0.4318E-02	0.1519E+06	0.4180E+05	181.9	0.8001	421.2	1.558
0.4750E-02	0.1541E+06	0.4188E+05	181.0	0.8056	423.0	1.568
0.5094E-02	0.1591E+06	0.4182E+05	178.5	0.8157	428.7	1.600
0.5382E-02	0.1602E+06	0.4172E+05	177.9	0.8166	429.8	1.607
0.5798E-02	0.1648E+06	0.4161E+05	175.4	0.8260	435.3	1.639
0.6302E-02	0.1704E+06	0.4164E+05	172.9	0.8384	440.6	1.671
0.7014E-02	0.1790E+06	0.4144E+05	169.1	0.8532	448.6	1.720
0.7775E-02	0.1907E+06	0.4137E+05	163.9	0.8785	459.5	1.789
0.8703E-02	0.1982E+06	0.4133E+05	161.2	0.8925	464.7	1.825
0.9559E-02	0.2078E+06	0.4124E+05	157.1	0.9140	472.9	1.881
0.1026E-01	0.2205E+06	0.4125E+05	153.1	0.9383	480.8	1.938
0.1102E-01	0.2347E+06	0.4120E+05	148.2	0.9679	490.4	2.009
0.1183E-01	0.2415E+06	0.4122E+05	145.7	0.9849	494.9	2.044
0.1272E-01	0.2550E+06	0.4130E+05	141.9	1.013	501.9	2.101
0.1355E-01	0.2633E+06	0.4124E+05	139.1	1.032	506.9	2.143
0.1435E-01	0.2777E+06	0.4124E+05	135.5	1.060	513.5	2.200
0.1506E-01	0.2887E+06	0.4129E+05	132.4	1.086	519.1	2.250
0.1582E-01	0.3008E+06	0.4123E+05	129.4	1.110	524.4	2.299
0.1674E-01	0.3158E+06	0.4106E+05	125.6	1.138	531.0	2.363
0.1762E-01	0.3202E+06	0.4105E+05	124.3	1.150	532.9	2.384
0.1836E-01	0.3265E+06	0.4119E+05	123.0	1.166	534.9	2.405
0.1906E-01	0.3369E+06	0.4109E+05	120.5	1.187	538.9	2.448
0.1982E-01	0.3413E+06	0.4102E+05	119.3	1.197	540.8	2.469
0.2075E-01	0.3422E+06	0.4108E+05	119.1	1.200	540.5	2.469
0.2163E-01	0.3434E+06	0.4096E+05	118.6	1.202	540.8	2.476
0.2234E-01	0.3457E+06	0.4116E+05	118.1	1.213	541.3	2.483
0.2395E-01	0.3492E+06	0.4156E+05	117.9	1.227	540.7	2.483
0.2553E-01	0.3500E+06	0.4138E+05	117.3	1.229	540.8	2.490
0.2717E-01	0.3474E+06	0.4097E+05	117.0	1.219	540.2	2.490
0.2875E-01	0.3459E+06	0.4067E+05	116.4	1.216	540.4	2.497
0.3034E-01	0.3465E+06	0.4036E+05	115.5	1.217	541.3	2.512
0.3192E-01	0.3462E+06	0.4008E+05	115.1	1.212	541.9	2.519
0.3344E-01	0.3427E+06	0.4006E+05	115.9	1.204	540.6	2.505
0.3504E-01	0.3487E+06	0.4040E+05	115.1	1.222	541.9	2.519
0.3661E-01	0.3499E+06	0.4080E+05	115.9	1.226	540.6	2.505
0.3819E-01	0.3489E+06	0.4092E+05	116.2	1.226	539.9	2.497
0.3980E-01	0.3503E+06	0.4088E+05	115.9	1.228	540.6	2.505

PITOT SURVEY DATA

AVERAGE STAGNATION PRESSURE = 0.6886E+06

AVERAGE STAGNATION TEMPERATURE = 262.6

X = 0.4199

Z = -.5029E-01

NUMBER OF DATA POINTS = 52

Y	Pitot Pr.	Static Pr.	Local temp	Density	U	Mach number
0.1970E-03	0.8234E+05	0.4285E+05	226.6	0.6584	305.6	1.012
0.3570E-03	0.9092E+05	0.4285E+05	220.0	0.6781	326.4	1.097
0.5811E-03	0.1020E+06	0.4285E+05	212.7	0.7013	347.9	1.189
0.7731E-03	0.1085E+06	0.4285E+05	208.5	0.7156	359.7	1.242
0.9972E-03	0.1131E+06	0.4285E+05	205.6	0.7256	367.4	1.278
0.1197E-02	0.1171E+06	0.4285E+05	203.3	0.7338	373.5	1.306
0.1365E-02	0.1222E+06	0.4154E+05	198.2	0.7296	386.8	1.370
0.1589E-02	0.1252E+06	0.4145E+05	196.5	0.7345	391.0	1.391
0.1765E-02	0.1274E+06	0.4149E+05	195.3	0.7395	393.9	1.405
0.1973E-02	0.1292E+06	0.4138E+05	194.2	0.7420	396.6	1.419
0.2149E-02	0.1311E+06	0.4128E+05	192.7	0.7457	400.1	1.437
0.2501E-02	0.1394E+06	0.4114E+05	188.2	0.7610	411.0	1.494
0.2790E-02	0.1376E+06	0.4114E+05	189.0	0.7579	408.9	1.483
0.3286E-02	0.1459E+06	0.4110E+05	184.7	0.7745	418.7	1.536
0.3758E-02	0.1495E+06	0.4135E+05	183.3	0.7856	421.9	1.554
0.4150E-02	0.1532E+06	0.4145E+05	181.8	0.7937	425.0	1.572
0.4494E-02	0.1575E+06	0.4145E+05	179.6	0.8036	430.0	1.600
0.4798E-02	0.1572E+06	0.4147E+05	179.8	0.8031	429.3	1.596
0.5294E-02	0.1622E+06	0.4141E+05	177.3	0.8134	434.7	1.628
0.5766E-02	0.1697E+06	0.4133E+05	174.0	0.8271	441.9	1.671
0.6150E-02	0.1747E+06	0.4118E+05	171.5	0.8359	447.2	1.703
0.6902E-02	0.1831E+06	0.4095E+05	167.4	0.8514	455.6	1.756
0.7687E-02	0.1957E+06	0.4088E+05	162.3	0.8769	466.2	1.825
0.8567E-02	0.2039E+06	0.4086E+05	159.1	0.8939	472.4	1.867
0.9255E-02	0.2166E+06	0.4080E+05	154.6	0.9190	481.4	1.931
0.1019E-01	0.2269E+06	0.4083E+05	151.0	0.9413	488.1	1.981
0.1096E-01	0.2367E+06	0.4080E+05	147.6	0.9624	494.6	2.030
0.1171E-01	0.2537E+06	0.4076E+05	142.4	0.9964	504.5	2.108
0.1265E-01	0.2628E+06	0.4081E+05	139.6	1.018	509.5	2.151
0.1326E-01	0.2726E+06	0.4080E+05	136.8	1.038	514.4	2.193
0.1419E-01	0.2818E+06	0.4073E+05	134.1	1.057	519.1	2.235
0.1499E-01	0.2950E+06	0.4063E+05	130.6	1.083	525.3	2.292
0.1569E-01	0.3084E+06	0.4072E+05	127.2	1.114	531.3	2.349
0.1662E-01	0.3183E+06	0.4089E+05	125.1	1.138	534.7	2.384
0.1730E-01	0.3253E+06	0.4075E+05	123.4	1.150	537.4	2.412
0.1820E-01	0.3335E+06	0.4067E+05	121.3	1.167	540.7	2.448
0.1899E-01	0.3357E+06	0.4067E+05	120.8	1.172	541.1	2.455
0.1971E-01	0.3387E+06	0.4059E+05	119.9	1.178	542.3	2.469
0.2067E-01	0.3428E+06	0.4051E+05	118.7	1.188	544.0	2.490
0.2131E-01	0.3439E+06	0.4064E+05	118.6	1.193	543.8	2.490
0.2215E-01	0.3499E+06	0.4111E+05	118.1	1.212	544.2	2.497
0.2372E-01	0.3508E+06	0.4161E+05	118.6	1.222	542.2	2.483
0.2542E-01	0.3492E+06	0.4171E+05	118.7	1.224	540.9	2.476
0.2688E-01	0.3508E+06	0.4159E+05	118.1	1.227	541.1	2.483
0.2863E-01	0.3492E+06	0.4126E+05	117.4	1.223	541.2	2.490
0.3013E-01	0.3479E+06	0.4100E+05	117.2	1.218	540.7	2.490
0.3172E-01	0.3451E+06	0.4068E+05	117.2	1.208	540.7	2.490
0.3331E-01	0.3467E+06	0.4075E+05	116.8	1.214	541.3	2.497
0.3476E-01	0.3498E+06	0.4106E+05	116.8	1.223	541.3	2.497
0.3652E-01	0.3489E+06	0.4134E+05	117.6	1.224	540.0	2.483
0.3796E-01	0.3503E+06	0.4146E+05	117.2	1.232	540.7	2.490
0.3963E-01	0.3519E+06	0.4154E+05	117.2	1.234	540.7	2.490

APPENDIX E

VERTICAL SURVEYS OF TOTAL TEMPERATURE AT STREAMWISE LOCATIONS

TOTAL TEMPERATURE SURVEYS

X = 0.2421
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6885E+06
 AVERAGE STAGNATION TEMPERATURE = 266.9
 NUMBER OF DATA POINTS = 52

Y	Total Temperature/Stagnation Temperature
0.8255E-03	1.047
0.1009E-02	1.047
0.1249E-02	1.046
0.1385E-02	1.044
0.1609E-02	1.044
0.1809E-02	1.042
0.2033E-02	1.044
0.2257E-02	1.042
0.2449E-02	1.043
0.2641E-02	1.042
0.2833E-02	1.043
0.3185E-02	1.041
0.3576E-02	1.041
0.4120E-02	1.038
0.4488E-02	1.037
0.4856E-02	1.036
0.5160E-02	1.036
0.5608E-02	1.036
0.6072E-02	1.034
0.6447E-02	1.032
0.6839E-02	1.033
0.7663E-02	1.032
0.8367E-02	1.031
0.9278E-02	1.029
0.1001E-01	1.029
0.1088E-01	1.028
0.1170E-01	1.027
0.1240E-01	1.027
0.1332E-01	1.025
0.1402E-01	1.024
0.1488E-01	1.023
0.1576E-01	1.021
0.1639E-01	1.023
0.1729E-01	1.018
0.1800E-01	1.019
0.1887E-01	1.017
0.1971E-01	1.013
0.2047E-01	1.016
0.2134E-01	1.013
0.2203E-01	1.011
0.2293E-01	1.008
0.2445E-01	1.010
0.2618E-01	1.005
0.2766E-01	1.005
0.2926E-01	1.004
0.3079E-01	1.002
0.3230E-01	1.003
0.3395E-01	1.004
0.3548E-01	1.001
0.3712E-01	1.002
0.3881E-01	1.002
0.4031E-01	1.000

TOTAL TEMPERATURE SURVEYS

X = 0.2421
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6881E+06
 AVERAGE STAGNATION TEMPERATURE = 262.0
 NUMBER OF DATA POINTS = 51

Y	Total Temperature/Stagnation Temperature
0.8255E-03	1.052
0.1073E-02	1.051
0.1249E-02	1.049
0.1441E-02	1.048
0.1673E-02	1.048
0.1865E-02	1.047
0.2041E-02	1.046
0.2273E-02	1.045
0.2473E-02	1.045
0.2697E-02	1.045
0.2849E-02	1.045
0.3289E-02	1.043
0.3536E-02	1.043
0.4008E-02	1.041
0.4336E-02	1.040
0.4816E-02	1.038
0.5248E-02	1.036
0.5576E-02	1.037
0.6048E-02	1.035
0.6455E-02	1.034
0.6847E-02	1.035
0.7687E-02	1.031
0.8487E-02	1.030
0.9230E-02	1.031
0.1005E-01	1.030
0.1089E-01	1.027
0.1165E-01	1.026
0.1235E-01	1.024
0.1323E-01	1.024
0.1404E-01	1.026
0.1475E-01	1.022
0.1567E-01	1.025
0.1646E-01	1.020
0.1728E-01	1.020
0.1804E-01	1.019
0.1887E-01	1.016
0.1969E-01	1.015
0.2045E-01	1.013
0.2123E-01	1.012
0.2208E-01	1.011
0.2291E-01	1.008
0.2448E-01	1.004
0.2612E-01	1.005
0.2770E-01	1.006
0.2925E-01	1.003
0.3081E-01	1.003
0.3237E-01	1.002
0.3393E-01	1.003
0.3552E-01	1.004
0.3710E-01	1.000
0.3872E-01	1.000

TOTAL TEMPERATURE SURVEYS

X = 0.3175
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6892E+06
 AVERAGE STAGNATION TEMPERATURE = 267.1
 NUMBER OF DATA POINTS = 51

Y	Total Temperature/Stagnation Temperature
0.8255E-03	1.048
0.1009E-02	1.046
0.1177E-02	1.046
0.1425E-02	1.043
0.1609E-02	1.044
0.1825E-02	1.043
0.2033E-02	1.042
0.2217E-02	1.041
0.2401E-02	1.040
0.2609E-02	1.042
0.2921E-02	1.039
0.3249E-02	1.038
0.3672E-02	1.036
0.4184E-02	1.034
0.4536E-02	1.034
0.4848E-02	1.033
0.5216E-02	1.032
0.5696E-02	1.031
0.6168E-02	1.029
0.6503E-02	1.030
0.6855E-02	1.029
0.7679E-02	1.028
0.8559E-02	1.026
0.9334E-02	1.028
0.1001E-01	1.025
0.1101E-01	1.025
0.1179E-01	1.023
0.1246E-01	1.024
0.1340E-01	1.022
0.1411E-01	1.021
0.1497E-01	1.022
0.1572E-01	1.018
0.1644E-01	1.019
0.1727E-01	1.017
0.1818E-01	1.016
0.1896E-01	1.013
0.1972E-01	1.011
0.2045E-01	1.009
0.2135E-01	1.011
0.2224E-01	1.006
0.2299E-01	1.007
0.2462E-01	1.007
0.2619E-01	1.004
0.2778E-01	1.005
0.2935E-01	1.003
0.3089E-01	1.002
0.3243E-01	1.004
0.3400E-01	0.9989
0.3560E-01	1.001
0.3720E-01	0.9994
0.3884E-01	1.000

TOTAL TEMPERATURE SURVEYS

X = 0.3937
 Z = 0.7620E-03
 AVERAGE STAGNATION PRESSURE = 0.6896E+06
 AVERAGE STAGNATION TEMPERATURE = 267.9
 NUMBER OF DATA POINTS = 51

Y	Total Temperature/Stagnation Temperature
0.8255E-03	1.042
0.9614E-03	1.041
0.1233E-02	1.040
0.1417E-02	1.037
0.1593E-02	1.039
0.1825E-02	1.040
0.2033E-02	1.036
0.2241E-02	1.037
0.2409E-02	1.037
0.2641E-02	1.037
0.2785E-02	1.035
0.3225E-02	1.034
0.3608E-02	1.033
0.3976E-02	1.032
0.4264E-02	1.033
0.4776E-02	1.032
0.5208E-02	1.030
0.5584E-02	1.028
0.5928E-02	1.030
0.6255E-02	1.028
0.6767E-02	1.027
0.7543E-02	1.027
0.8439E-02	1.025
0.9054E-02	1.026
0.9974E-02	1.023
0.1075E-01	1.024
0.1158E-01	1.023
0.1245E-01	1.022
0.1307E-01	1.022
0.1407E-01	1.021
0.1481E-01	1.021
0.1557E-01	1.021
0.1644E-01	1.019
0.1713E-01	1.019
0.1806E-01	1.016
0.1876E-01	1.014
0.1962E-01	1.014
0.2047E-01	1.013
0.2119E-01	1.012
0.2211E-01	1.007
0.2275E-01	1.009
0.2451E-01	1.006
0.2597E-01	1.004
0.2764E-01	1.005
0.2918E-01	1.004
0.3059E-01	1.003
0.3233E-01	1.001
0.3381E-01	1.002
0.3545E-01	1.002
0.3708E-01	1.000
0.3857E-01	1.000

TOTAL TEMPERATURE SURVEYS

X = 0.4453
 Z = 0.0000E+00
 AVERAGE STAGNATION PRESSURE = 0.6889E+06
 AVERAGE STAGNATION TEMPERATURE = 267.8
 NUMBER OF DATA POINTS = 51

Y	Total Temperature/Stagnation Temperature
0.8255E-03	1.040
0.1057E-02	1.039
0.1233E-02	1.038
0.1433E-02	1.037
0.1673E-02	1.037
0.1881E-02	1.036
0.2049E-02	1.036
0.2281E-02	1.037
0.2457E-02	1.033
0.2681E-02	1.033
0.2897E-02	1.033
0.3225E-02	1.033
0.3521E-02	1.034
0.3944E-02	1.032
0.4432E-02	1.029
0.4872E-02	1.030
0.5208E-02	1.029
0.5552E-02	1.029
0.5960E-02	1.029
0.6431E-02	1.027
0.6887E-02	1.028
0.7543E-02	1.026
0.8495E-02	1.025
0.9214E-02	1.024
0.9974E-02	1.025
0.1089E-01	1.024
0.1158E-01	1.025
0.1245E-01	1.022
0.1324E-01	1.023
0.1400E-01	1.023
0.1492E-01	1.022
0.1556E-01	1.022
0.1648E-01	1.020
0.1725E-01	1.022
0.1798E-01	1.017
0.1887E-01	1.020
0.1955E-01	1.018
0.2051E-01	1.015
0.2124E-01	1.015
0.2203E-01	1.013
0.2292E-01	1.011
0.2441E-01	1.010
0.2602E-01	1.006
0.2773E-01	1.005
0.2912E-01	1.007
0.3079E-01	1.004
0.3231E-01	1.002
0.3387E-01	1.002
0.3548E-01	1.002
0.3700E-01	1.003
0.3873E-01	1.000

APPENDIX F

**STREAMWISE AND SPANWISE PRESTON PROBE SURVEYS
AND DEDUCED SKIN FRICTION VALUES**

PRESTON TUBE MEASUREMENTS
 (Cf determined from Hopkins-Keener calibration scheme.)
 Preston Tube Diameter = .1651E-02

X	Z	Stagnation		Static Pressure	Preston Pressure	Cf
		Pressure	Temp.			
0.2436	0.0000E+00	0.6881E+06	267.0	0.2997E+05	0.8138E+05	0.10191E-02
0.2667	0.0000E+00	0.6890E+06	267.0	0.3136E+05	0.8458E+05	0.10291E-02
0.2921	0.0000E+00	0.6871E+06	266.5	0.3580E+05	0.8825E+05	0.97116E-03
0.2921	0.5080E-03	0.6871E+06	267.9	0.3580E+05	0.8743E+05	0.95806E-03
0.3170	0.0000E+00	0.6882E+06	266.5	0.3969E+05	0.9258E+05	0.93419E-03
0.3429	0.0000E+00	0.6870E+06	267.3	0.4278E+05	0.9812E+05	0.94083E-03
0.3683	0.0000E+00	0.6878E+06	265.7	0.4365E+05	0.1018E+06	0.96325E-03
0.3937	0.0000E+00	0.6873E+06	265.2	0.4246E+05	0.1048E+06	0.10176E-02
0.4191	0.0000E+00	0.6897E+06	266.2	0.4100E+05	0.1058E+06	0.10608E-02
0.4445	0.0000E+00	0.6869E+06	267.0	0.3963E+05	0.1055E+06	0.10932E-02
0.4572	- .3175E-02	0.6901E+06	265.8	0.4031E+05	0.1062E+06	0.10812E-02
0.4572	- .3175E-02	0.6913E+06	262.3	0.4031E+05	0.1058E+06	0.10713E-02
0.4186	0.5080E-01	0.6876E+06	267.8	0.4103E+05	0.1098E+06	0.11102E-02
0.4191	0.3810E-01	0.6867E+06	266.8	0.4100E+05	0.1080E+06	0.10879E-02
0.4191	0.2591E-01	0.6889E+06	270.7	0.4100E+05	0.1091E+06	0.11090E-02
0.4191	0.1071E-01	0.6892E+06	270.5	0.4100E+05	0.1064E+06	0.10768E-02
0.4191	- .1270E-01	0.6888E+06	269.8	0.4108E+05	0.1053E+06	0.10596E-02
0.4191	- .2667E-01	0.6892E+06	269.7	0.4220E+05	0.1068E+06	0.10562E-02
0.4191	- .3962E-01	0.6890E+06	270.1	0.4268E+05	0.1057E+06	0.10371E-02
0.4191	- .5080E-01	0.6885E+06	270.3	0.4310E+05	0.1067E+06	0.10348E-02

APPENDIX G

**VARIOUS BOUNDARY LAYER LENGTH SCALES, AND
SKIN FRICTION VALUES FROM THE LOG LAW**

X	Z	δ_{95}	δ^*	θ	δ_w^*	θ_w	C_{flog}	δ
0.2459	0.0000E+00	0.2014E-01	0.4628E-02	0.1229E-02	0.6772E-02	0.1493E-02	.00111	.024
0.2667	- .1524E-02	0.1971E-01	0.5229E-02	0.1067E-02	0.6771E-02	0.1502E-02	.00109	.023
0.2921	- .7620E-03	0.1934E-01	0.5169E-02	0.1118E-02	0.6634E-02	0.1519E-02	.00106	.022
0.3175	- .7620E-03	0.1883E-01	0.5187E-02	0.1104E-02	0.6459E-02	0.1527E-02	.00101	.022
0.3429	0.1270E-02	0.1901E-01	0.5225E-02	0.1189E-02	0.6607E-02	0.1583E-02	.00098	.021
0.3683	0.0000E+00	0.1909E-01	0.5903E-02	0.1050E-02	0.6677E-02	0.1620E-02	.00101	.022
0.3937	- .5080E-03	0.1910E-01	0.4933E-02	0.1254E-02	0.6687E-02	0.1613E-02	.00107	.024
0.4191	0.7620E-03	0.1978E-01	0.4446E-02	0.1403E-02	0.6831E-02	0.1645E-02	.00114	.024
0.4445	0.1270E-02	0.2060E-01	0.5920E-02	0.1396E-02	0.7358E-02	0.1849E-02	.00123	.024
0.4564	- .1524E-02	0.1946E-01	0.4456E-02	0.1246E-02	0.6453E-02	0.1562E-02	.00121	.025
0.4191	0.4724E-01	0.1837E-01	0.4374E-02	0.1286E-02	0.6436E-02	0.1581E-02	.00118	.022
0.4196	0.3810E-01	0.1823E-01	0.4590E-02	0.1157E-02	0.6313E-02	0.1551E-02	.00123	.023
0.4191	0.2540E-01	0.1826E-01	0.4277E-02	0.1253E-02	0.6348E-02	0.1541E-02	.00118	.022
0.4191	0.1270E-01	0.1913E-01	0.4904E-02	0.1372E-02	0.6867E-02	0.1691E-02	.00122	.023
0.4191	- .1194E-01	0.1904E-01	0.4078E-02	0.1267E-02	0.6295E-02	0.1524E-02	.00113	.023
0.4191	- .2540E-01	0.1793E-01	0.4016E-02	0.1110E-02	0.5883E-02	0.1434E-02	.00117	.022
0.4191	- .2667E-01	0.1820E-01	0.4205E-02	0.1156E-02	0.6075E-02	0.1478E-02	.00115	.022
0.4186	- .3810E-01	0.1837E-01	0.4493E-02	0.1131E-02	0.6169E-02	0.1493E-02	.00108	.022
0.4199	- .5029E-01	0.1728E-01	0.3858E-02	0.1121E-02	0.5787E-02	0.1410E-02	.00108	.021

APPENDIX H

**VERTICAL NORMAL-WIRE SURVEYS AT STREAMWISE
LOCATIONS AND REDUCED DATA**

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.2398		Z = 0.0000E+00	TW = 259.9		DELTA = 0.2369E-01	UREF = 562.5	NPTS =	28	
UT = 20.29		RHOW = 0.4085							
Y	Y	DELTA	<(rho*U)> RHO*U	<(rho*U)> RHO*UT	U UREF	M	<U> UT	RHO*<U>##2 RHOW*UT##2	
3.8100E-04	1.6083E-02	0.1682	0.1682	3.816	0.6037	1.191	1.885	4.565	
1.2489E-03	5.2717E-02	0.1791	0.1791	4.754	0.6895	1.423	1.992	5.584	
2.4894E-03	0.1051	0.1738	0.1738	5.167	0.7420	1.585	1.880	5.175	
3.7214E-03	0.1571	0.1635	0.1635	5.289	0.7769	1.704	1.717	4.389	
4.9384E-03	0.2085	0.1544	0.1544	5.367	0.7974	1.778	1.588	3.951	
6.1594E-03	0.2600	0.1506	0.1506	5.553	0.8163	1.851	1.514	3.793	
7.3914E-03	0.3120	0.1478	0.1478	5.757	0.8341	1.924	1.450	3.658	
8.6184E-03	0.3638	0.1470	0.1470	6.018	0.8502	1.992	1.407	3.590	
9.8304E-03	0.4150	0.1471	0.1471	6.386	0.8646	2.057	1.375	3.549	
1.1037E-02	0.4659	0.1434	0.1434	6.570	0.8780	2.120	1.309	3.304	
1.2247E-02	0.5170	0.1362	0.1362	6.557	0.8929	2.193	1.209	2.916	
1.3447E-02	0.5676	0.1347	0.1347	6.722	0.9062	2.263	1.163	2.785	
1.4657E-02	0.6187	0.1296	0.1296	6.749	0.9195	2.336	1.086	2.505	
1.5867E-02	0.6698	0.1235	0.1235	6.721	0.9318	2.407	1.005	2.222	
1.7057E-02	0.7200	0.1167	0.1167	6.639	0.9385	2.448	0.9334	1.958	
1.8277E-02	0.7715	0.1028	0.1028	6.072	0.9491	2.516	0.7993	1.485	
1.9457E-02	0.8213	8.8630E-02	8.8630E-02	5.365	0.9582	2.575	0.6720	1.080	
2.0667E-02	0.8724	7.0180E-02	7.0180E-02	4.383	0.9623	2.606	0.5248	0.6729	
2.1817E-02	0.9210	6.0310E-02	6.0310E-02	3.853	0.9662	2.636	0.4452	0.4946	
2.3017E-02	0.9716	4.3210E-02	4.3210E-02	2.817	0.9653	2.635	0.3189	0.2548	
2.4227E-02	1.023	3.5140E-02	3.5140E-02	2.307	0.9676	2.655	0.2570	0.1673	
2.5417E-02	1.073	2.4670E-02	2.4670E-02	1.634	0.9684	2.665	0.1793	8.2533E-02	
2.6607E-02	1.123	2.5030E-02	2.5030E-02	1.683	0.9660	2.655	0.1828	8.6022E-02	
2.7827E-02	1.175	2.2370E-02	2.2370E-02	1.519	0.9643	2.649	0.1636	6.9511E-02	
2.9027E-02	1.225	2.1800E-02	2.1800E-02	1.500	0.9638	2.650	0.1592	6.6678E-02	
3.0197E-02	1.275	2.2910E-02	2.2910E-02	1.596	0.9610	2.636	0.1483	7.5280E-02	
3.1387E-02	1.325	2.2300E-02	2.2300E-02	1.552	0.9591	2.624	0.1646	7.2684E-02	
3.2577E-02	1.375	2.2320E-02	2.2320E-02	1.554	0.9578	2.615	0.1653	7.3862E-02	

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.2659 UT = 20.19		Z = 0.0000E+00 RHOW = 0.4187		TW = 261.9		DELTA = 0.2304E-01		UREF = 564.7		NPTS = 32	
Y	Y DELTA	<(rho*u)> RHO*U	<(rho*u)> RHO*UT	U UREF	M	<u> UT	RHO*<u>**2 RHOW*UT**2				
1.2413E-03	5.3878E-02	0.1880	5.106	0.6837	1.407	2.113	6.270				
2.4904E-03	0.1081	0.1654	4.948	0.7240	1.528	1.825	4.987				
3.7193E-03	0.1614	0.1633	5.267	0.7554	1.630	1.762	4.884				
4.9484E-03	0.2148	0.1610	5.576	0.7777	1.708	1.702	4.735				
6.1604E-03	0.2674	0.1485	5.463	0.8037	1.804	1.527	3.958				
7.3924E-03	0.3208	0.1488	5.810	0.8271	1.896	1.486	3.914				
8.6164E-03	0.3740	0.1466	6.050	0.8400	1.950	1.437	3.773				
9.8354E-03	0.4269	0.1432	6.208	0.8575	2.026	1.366	3.531				
1.1049E-02	0.4796	0.1420	6.515	0.8729	2.097	1.319	3.401				
1.2249E-02	0.5317	0.1402	6.733	0.8907	2.183	1.260	3.219				
1.3449E-02	0.5837	0.1339	6.709	0.9029	2.247	1.173	2.853				
1.4669E-02	0.6367	0.1243	6.480	0.9160	2.317	1.059	2.383				
1.5879E-02	0.6892	0.1248	6.777	0.9306	2.401	1.027	2.320				
1.7069E-02	0.7409	0.1176	6.717	0.9387	2.450	0.9480	2.023				
1.8269E-02	0.7929	0.1013	6.092	0.9470	2.503	0.7986	1.494				
1.9479E-02	0.8455	8.7120E-02	5.422	0.9542	2.550	0.6730	1.101				
2.0669E-02	0.8971	6.5560E-02	4.186	0.9565	2.570	0.5021	0.6243				
2.1839E-02	0.9479	5.2640E-02	3.408	0.9615	2.606	0.3968	0.3972				
2.3049E-02	1.000	3.7120E-02	2.423	0.9626	2.618	0.2782	0.1957				
2.4249E-02	1.052	2.7150E-02	1.772	0.9623	2.621	0.2030	0.1040				
2.5439E-02	1.104	2.0440E-02	1.331	0.9648	2.641	0.1515	5.8128E-02				
2.6639E-02	1.156	1.6890E-02	1.101	0.9648	2.646	0.1248	3.9466E-02				
2.7829E-02	1.208	1.6720E-02	1.095	0.9643	2.648	0.1234	3.8591E-02				
2.9049E-02	1.261	1.5680E-02	1.032	0.9642	2.653	0.1154	3.3898E-02				
3.0219E-02	1.312	1.6590E-02	1.091	0.9638	2.653	0.1220	3.7871E-02				
3.1409E-02	1.363	1.5580E-02	1.018	0.9648	2.661	0.1142	3.3094E-02				
3.2579E-02	1.414	1.6110E-02	1.054	0.9657	2.667	0.1178	3.5037E-02				
3.3779E-02	1.466	1.5940E-02	1.037	0.9658	2.668	0.1165	3.4038E-02				
3.4969E-02	1.518	1.5200E-02	0.9865	0.9666	2.673	0.1108	3.0764E-02				
3.6189E-02	1.571	1.6350E-02	1.023	0.9675	2.679	0.1189	3.5599E-02				
3.7409E-02	1.624	1.6870E-02	1.052	0.9674	2.679	0.1227	3.8097E-02				

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.2916		Z = 0.8000E-03		TW = 263.4		DELTA = 0.2165E-01		UREF = 566.2		NPTS =		26	
UT = 18.87		RHOW = 0.4732		RHO*U		<(rho*U)>		U		M		<u>	
Y	Y	DELTA	RHO*U	<(rho*U)>	RHO*U	<(rho*U)>	U	UREF	M	<u>	UT	RHO*<u>***2	RHO*UT***2
1.2529E-03	5.7871E-02	0.1922	0.1922	4.883	0.6585	1.336	0.6585	1.336	2.332	7.401			
2.4659E-03	0.1139	0.1798	0.1798	5.192	0.6970	1.447	0.6970	1.447	2.156	6.637			
3.6979E-03	0.1708	0.1673	0.1673	5.296	0.7302	1.549	0.7302	1.549	1.971	5.812			
4.9309E-03	0.2278	0.1646	0.1646	5.607	0.7651	1.665	0.7651	1.665	1.888	5.605			
6.1339E-03	0.2833	0.1580	0.1580	5.748	0.7855	1.738	0.7855	1.738	1.776	5.084			
7.3509E-03	0.3395	0.1500	0.1500	5.808	0.8099	1.829	0.8099	1.829	1.641	4.489			
8.5939E-03	0.3969	0.1488	0.1488	6.088	0.8303	1.911	0.8303	1.911	1.585	4.334			
9.7839E-03	0.4519	0.1467	0.1467	6.354	0.8517	2.002	0.8517	2.002	1.514	4.107			
1.1008E-02	0.5084	0.1455	0.1455	6.616	0.8643	2.059	0.8643	2.059	1.470	3.963			
1.2198E-02	0.5634	0.1414	0.1414	6.762	0.8787	2.127	0.8787	2.127	1.392	3.649			
1.3418E-02	0.6198	0.1420	0.1420	7.169	0.8977	2.220	0.8977	2.220	1.349	3.558			
1.4608E-02	0.6747	0.1291	0.1291	6.843	0.9069	2.270	0.9069	2.270	1.202	2.882			
1.5828E-02	0.7311	0.1240	0.1240	6.908	0.9179	2.331	0.9179	2.331	1.126	2.628			
1.7028E-02	0.7865	0.1100	0.1100	6.484	0.9285	2.392	0.9285	2.392	0.9740	2.042			
1.8208E-02	0.8410	9.8970E-02	9.8970E-02	6.060	0.9395	2.458	0.9395	2.458	0.8526	1.619			
1.9398E-02	0.8960	8.2600E-02	8.2600E-02	5.228	0.9471	2.507	0.9471	2.507	0.6969	1.105			
2.0588E-02	0.9509	7.1160E-02	7.1160E-02	4.619	0.9518	2.540	0.9518	2.540	0.5919	0.8073			
2.1778E-02	1.006	4.9310E-02	4.9310E-02	3.248	0.9540	2.558	0.9540	2.558	0.4068	0.3825			
2.2968E-02	1.061	3.4860E-02	3.4860E-02	2.319	0.9567	2.579	0.9567	2.579	0.2849	0.1890			
2.4158E-02	1.116	2.4760E-02	2.4760E-02	1.643	0.9576	2.590	0.9576	2.590	0.2013	9.4658E-02			
2.5348E-02	1.172	2.1730E-02	2.1730E-02	1.452	0.9585	2.601	0.9585	2.601	0.1757	7.2529E-02			
2.6568E-02	1.227	1.7880E-02	1.7880E-02	1.206	0.9594	2.612	0.9594	2.612	0.1438	4.8673E-02			
2.7768E-02	1.283	1.6390E-02	1.6390E-02	1.112	0.9593	2.616	0.9593	2.616	0.1315	4.0705E-02			
2.8958E-02	1.338	1.4290E-02	1.4290E-02	0.9724	0.9577	2.611	0.9577	2.611	0.1148	3.1063E-02			
3.0138E-02	1.392	1.3760E-02	1.3760E-02	0.9351	0.9564	2.605	0.9564	2.605	0.1107	2.8900E-02			

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.3180		Z = 0.8000E-03	TW = 264.5		DELTA = 0.2180E-01	UREF = 567.5	NPTS = 32	
UT = 17.92		RHOW = 0.5251						
Y	Y	DELTA	<(rho*u)> RHO*U	<(rho*u)> RHO*UT	U	M	<u> UT	RHO*<u>***2 RHOW*UT**2
3.8100E-04	1.7477E-02	0.1225	2.771	0.5574	1.077		1.546	2.945
1.1842E-03	5.4321E-02	0.1906	4.906	0.6380	1.280		2.446	7.957
2.3939E-03	0.1098	0.1901	5.561	0.6775	1.390		2.423	8.262
3.6469E-03	0.1673	0.1868	5.949	0.7160	1.506		2.341	8.052
4.8759E-03	0.2237	0.1730	5.991	0.7435	1.593		2.130	6.914
6.0849E-03	0.2791	0.1562	5.768	0.7698	1.683		1.881	5.561
7.3049E-03	0.3351	0.1578	6.188	0.7952	1.775		1.852	5.563
8.5349E-03	0.3915	0.1523	6.314	0.8167	1.858		1.742	5.087
9.7449E-03	0.4470	0.1531	6.709	0.8378	1.944		1.701	5.034
1.0967E-02	0.5031	0.1434	6.670	0.8530	2.010		1.556	4.364
1.2157E-02	0.5577	0.1393	6.854	0.8747	2.108		1.498	4.052
1.3367E-02	0.6132	0.1384	7.224	0.8835	2.152		1.424	3.975
1.4557E-02	0.6677	0.1329	7.334	0.8959	2.215		1.334	3.570
1.5787E-02	0.7242	0.1207	6.965	0.9115	2.297		1.173	2.843
1.6977E-02	0.7788	0.1080	6.505	0.9248	2.372		1.018	2.192
1.8167E-02	0.8333	9.5810E-02	5.957	0.9330	2.421		0.8843	1.675
1.9357E-02	0.8879	7.7420E-02	4.925	0.9420	2.477		0.6981	1.061
2.0537E-02	0.9421	5.8090E-02	3.758	0.9456	2.503		0.5178	0.5840
2.1727E-02	0.9966	3.7680E-02	2.457	0.9499	2.533		0.3315	0.2408
2.2917E-02	1.051	3.0070E-02	1.969	0.9504	2.540		0.2635	0.1515
2.4137E-02	1.107	2.1050E-02	1.378	0.9520	2.555		0.1833	7.3263E-02
2.5317E-02	1.161	1.9150E-02	1.253	0.9520	2.560		0.1662	6.0159E-02
2.6527E-02	1.217	1.5860E-02	1.038	0.9529	2.569		0.1370	4.0932E-02
2.7727E-02	1.272	1.4310E-02	0.9358	0.9530	2.575		0.1233	3.3123E-02
2.8897E-02	1.326	1.5140E-02	0.9911	0.9524	2.576		0.1303	3.6940E-02
3.0087E-02	1.380	1.4110E-02	0.9241	0.9527	2.581		0.1211	3.1949E-02
3.1267E-02	1.434	1.5140E-02	0.9928	0.9527	2.582		0.1298	3.6591E-02
3.2457E-02	1.489	1.5700E-02	1.027	0.9536	2.588		0.1343	3.8954E-02
3.3657E-02	1.544	1.6640E-02	1.083	0.9550	2.597		0.1418	4.3150E-02
3.4847E-02	1.598	1.6600E-02	1.073	0.9550	2.597		0.1415	4.2498E-02
3.6057E-02	1.654	1.4170E-02	0.9184	0.9563	2.606		0.1203	3.0794E-02
3.7257E-02	1.709	1.3920E-02	0.9069	0.9566	2.608		0.1181	2.9795E-02

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.3434 UT = 17.27		Z = -.5000E-03 RHOW = 0.5630		TW = 265.3		DELTA = 0.2103E-01		UREF = 548.3		NPTS = 29	
Y	Y DELTA	<(rho*u)> RHOW*U	<(rho*u)> RHOW*UT	U UREF	M	<u> UT	RHO*<u>***2 RHOW*UT**2				
1.1836E-03	5.6282E-02	0.1868	4.875	0.6201	1.233	2.490	8.094				
2.4106E-03	0.1146	0.2000	5.886	0.6682	1.364	2.654	9.758				
3.6466E-03	0.1734	0.1845	5.936	0.7000	1.457	2.421	8.383				
4.8756E-03	0.2318	0.1809	6.285	0.7249	1.535	2.341	8.139				
6.1066E-03	0.2904	0.1655	6.167	0.7569	1.639	2.093	6.789				
7.3216E-03	0.3482	0.1562	6.163	0.7791	1.717	1.936	5.978				
8.5346E-03	0.4058	0.1533	6.419	0.8051	1.814	1.846	5.632				
9.7466E-03	0.4635	0.1506	6.710	0.8237	1.887	1.771	5.331				
1.0977E-02	0.5219	0.1451	6.808	0.8447	1.975	1.655	4.805				
1.2167E-02	0.5785	0.1482	7.343	0.8628	2.055	1.643	4.885				
1.3357E-02	0.6351	0.1392	7.277	0.8804	2.138	1.495	4.189				
1.4577E-02	0.6931	0.1376	7.547	0.8928	2.200	1.443	4.007				
1.5787E-02	0.7507	0.1183	6.845	0.9083	2.281	1.201	2.873				
1.6977E-02	0.8073	0.1078	6.497	0.9164	2.326	1.075	2.340				
1.8177E-02	0.8643	8.9850E-02	5.606	0.9277	2.391	0.8721	1.577				
1.9367E-02	0.9209	7.8610E-02	5.031	0.9338	2.430	0.7504	1.182				
2.0557E-02	0.9775	5.4330E-02	3.540	0.9392	2.465	0.5110	0.5545				
2.1757E-02	1.035	4.2800E-02	2.818	0.9417	2.483	0.3992	0.3410				
2.2937E-02	1.091	2.7400E-02	1.815	0.9424	2.492	0.2545	0.1391				
2.4127E-02	1.147	1.9130E-02	1.271	0.9425	2.497	0.1771	6.7535E-02				
2.5327E-02	1.204	1.6630E-02	1.106	0.9427	2.503	0.1535	5.0761E-02				
2.6537E-02	1.262	1.3190E-02	0.8772	0.9434	2.512	0.1212	3.1599E-02				
2.7727E-02	1.318	1.3830E-02	0.9175	0.9441	2.521	0.1265	3.4364E-02				
2.8897E-02	1.374	1.2760E-02	0.8401	0.9442	2.526	0.1164	2.9028E-02				
3.0087E-02	1.431	1.3410E-02	0.8799	0.9437	2.526	0.1223	3.1843E-02				
3.1287E-02	1.488	1.2540E-02	0.8210	0.9442	2.530	0.1141	2.7557E-02				
3.2447E-02	1.543	1.3220E-02	0.8625	0.9454	2.537	0.1200	3.0223E-02				
3.3667E-02	1.601	1.2730E-02	0.8262	0.9471	2.547	0.1150	2.7553E-02				

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.3698 UT = 17.89		Z = 0.8000E-03 RHOW = 0.5695		TW = 267.2		DELTA = 0.2229E-01		UREF = 570.3		NPTS =		20	
Y	Y	DELTA	<(rho*u)> RHO*U	<(rho*u)> RHOW*UT	U	UREF	M	<u> UT	RHO*<u>**2 RHOW*UT**2				
1.1701E-03	5.2494E-02	0.1790	0.1790	4.519	0.6231	0.6231	1.241	2.312	6.995				
2.3894E-03	0.1072	0.1874	0.1874	5.269	0.6679	0.6679	1.363	2.410	7.942				
3.6384E-03	0.1632	0.1799	0.1799	5.512	0.7051	0.7051	1.472	2.282	7.393				
4.8644E-03	0.2182	0.1770	0.1770	5.809	0.7287	0.7287	1.547	2.215	7.216				
6.0974E-03	0.2735	0.1630	0.1630	5.736	0.7514	0.7514	1.622	2.006	6.131				
7.3144E-03	0.3281	0.1673	0.1673	6.297	0.7742	0.7742	1.701	2.017	6.397				
8.5184E-03	0.3822	0.1560	0.1560	6.239	0.7991	0.7991	1.792	1.832	5.484				
9.7284E-03	0.4364	0.1556	0.1556	6.568	0.8215	0.8215	1.879	1.778	5.377				
1.0984E-02	0.4928	0.1563	0.1563	7.004	0.8383	0.8383	1.948	1.744	5.349				
1.2154E-02	0.5453	0.1529	0.1529	7.256	0.8513	0.8513	2.006	1.671	5.042				
1.3344E-02	0.5987	0.1511	0.1511	7.584	0.8723	0.8723	2.100	1.595	4.812				
1.4554E-02	0.6530	0.1407	0.1407	7.525	0.8810	0.8810	2.143	1.461	4.138				
1.5774E-02	0.7077	0.1372	0.1372	7.685	0.8967	0.8967	2.222	1.381	3.845				
1.6954E-02	0.7606	0.1206	0.1206	7.115	0.9080	0.9080	2.283	1.185	2.926				
1.8144E-02	0.8140	0.1031	0.1031	6.332	0.9179	0.9179	2.339	0.9901	2.104				
1.9354E-02	0.8683	7.9060E-02	7.9060E-02	5.022	0.9243	0.9243	2.376	0.7473	1.218				
2.0544E-02	0.9217	6.2530E-02	6.2530E-02	4.060	0.9292	0.9292	2.407	0.5833	0.7506				
2.1724E-02	0.9746	4.9390E-02	4.9390E-02	3.249	0.9334	0.9334	2.436	0.4550	0.4610				
2.2914E-02	1.028	2.9860E-02	2.9860E-02	1.973	0.9354	0.9354	2.452	0.2731	0.1659				

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.3937 UT = 18.47		Z = 0.8000E-03 RHOW = 0.5504	TW = 268.8	DELTA = 0.2351E-01	UREF = 572.1	NPTS = 30		
Y	Y	DELTA	<(rho*u)> RHOW*U	<(rho*u)> RHOW*UT	U UREF	M	<u> UT	RHO*<u>*>#2 RHOW*UT*#2
1.1911E-03	5.0664E-02	0.1810	4.380	0.6461	1.302	2.270	6.912	
2.3891E-03	0.1016	0.1699	4.454	0.6866	1.416	2.112	6.233	
3.6281E-03	0.1543	0.1732	4.896	0.7137	1.499	2.125	6.514	
4.8661E-03	0.2070	0.1651	4.968	0.7317	1.556	2.004	5.956	
6.0821E-03	0.2587	0.1659	5.347	0.7587	1.646	1.972	5.990	
7.2851E-03	0.3099	0.1628	5.555	0.7779	1.713	1.901	5.710	
8.5211E-03	0.3624	0.1630	5.868	0.8008	1.798	1.856	5.645	
9.7181E-03	0.4134	0.1630	6.230	0.8186	1.868	1.816	5.582	
1.0941E-02	0.4654	0.1582	6.350	0.8385	1.949	1.715	5.157	
1.2141E-02	0.5164	0.1583	6.583	0.8561	2.026	1.669	5.052	
1.3341E-02	0.5675	0.1539	6.769	0.8666	2.075	1.593	4.717	
1.4551E-02	0.6189	0.1425	6.590	0.8848	2.162	1.427	3.938	
1.5771E-02	0.6708	0.1333	6.465	0.8976	2.227	1.301	3.371	
1.6961E-02	0.7214	0.1248	6.371	0.9052	2.269	1.198	2.910	
1.8151E-02	0.7721	0.1082	5.734	0.9196	2.348	1.006	2.123	
1.9321E-02	0.8218	8.9750E-02	4.914	0.9297	2.406	0.8144	1.428	
2.0511E-02	0.8724	7.5350E-02	4.227	0.9330	2.429	0.6768	0.9942	
2.1681E-02	0.9222	5.0950E-02	2.914	0.9380	2.462	0.4513	0.4472	
2.2871E-02	0.9728	4.2390E-02	2.458	0.9400	2.478	0.3728	0.3069	
2.4091E-02	1.025	2.5230E-02	1.480	0.9401	2.483	0.2212	0.1084	
2.5281E-02	1.075	1.8750E-02	1.102	0.9404	2.488	0.1639	5.9891E-02	
2.6471E-02	1.126	1.5030E-02	0.8840	0.9399	2.490	0.1312	3.8514E-02	
2.7681E-02	1.177	1.4200E-02	0.8376	0.9395	2.492	0.1238	3.4358E-02	
2.8841E-02	1.227	1.3490E-02	0.7973	0.9396	2.497	0.1172	3.0907E-02	
3.0041E-02	1.278	1.4860E-02	0.8783	0.9391	2.497	0.1291	3.7574E-02	
3.1221E-02	1.328	1.3460E-02	0.7965	0.9389	2.497	0.1169	3.0850E-02	
3.2401E-02	1.378	1.3040E-02	0.7692	0.9392	2.499	0.1132	2.8865E-02	
3.3601E-02	1.429	1.4540E-02	0.8555	0.9399	2.505	0.1258	3.5537E-02	
3.4801E-02	1.480	1.8560E-02	1.110	0.9383	2.494	0.1614	5.8202E-02	

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.4191		Z = -.8000E-03		DELTA = 0.2409E-01		UREF = 571.5		NPTS = 31	
UT = 19.28		RHOW = 0.5320		TW = 268.3		<(rho*u)*u>		<u>	
Y	DELTA	RHO*U	<(rho*u)*u>	RHOW*U	U	M	UT	RHO*<u>*<u>	RHOW*UT**2
1.1936E-03	4.9548E-02	0.1779	4.207	0.6620	1.345	2.131	6.197		
2.3950E-03	9.9419E-02	0.1614	4.151	0.6968	1.446	1.912	5.157		
3.6330E-03	0.1508	0.1624	4.452	0.7246	1.532	1.896	5.279		
4.8670E-03	0.2020	0.1614	4.701	0.7434	1.593	1.860	5.247		
6.0710E-03	0.2520	0.1592	4.910	0.7662	1.671	1.800	5.045		
7.2840E-03	0.3024	0.1603	5.210	0.7885	1.751	1.773	5.050		
8.5190E-03	0.3536	0.1564	5.362	0.8068	1.820	1.694	4.736		
9.7230E-03	0.4036	0.1593	5.774	0.8210	1.877	1.694	4.855		
1.0940E-02	0.4541	0.1564	5.960	0.8418	1.963	1.614	4.588		
1.2140E-02	0.5039	0.1513	6.103	0.8535	2.015	1.533	4.238		
1.3350E-02	0.5542	0.1526	6.495	0.8703	2.092	1.503	4.233		
1.4550E-02	0.6040	0.1445	6.460	0.8852	2.164	1.384	3.714		
1.5770E-02	0.6546	0.1340	6.270	0.8980	2.229	1.251	3.116		
1.6950E-02	0.7036	0.1245	6.108	0.9100	2.293	1.133	2.627		
1.8150E-02	0.7534	0.1089	5.543	0.9197	2.348	0.9689	1.969		
1.9330E-02	0.8024	9.9640E-02	5.228	0.9295	2.405	0.8658	1.612		
2.0520E-02	0.8518	7.9740E-02	4.309	0.9366	2.450	0.6796	1.014		
2.1690E-02	0.9004	6.4300E-02	3.550	0.9393	2.469	0.5434	0.6548		
2.2880E-02	0.9498	4.6310E-02	2.589	0.9400	2.478	0.3897	0.3392		
2.4090E-02	1.000	4.1150E-02	2.361	0.9401	2.483	0.3453	0.2697		
2.5280E-02	1.049	2.6080E-02	1.531	0.9403	2.488	0.2182	0.1102		
2.6480E-02	1.099	2.1550E-02	1.289	0.9375	2.476	0.1811	7.6922E-02		
2.7680E-02	1.149	1.5430E-02	0.9317	0.9346	2.464	0.1302	4.0096E-02		
2.8860E-02	1.198	1.5520E-02	0.9367	0.9347	2.469	0.1306	4.0520E-02		
3.0040E-02	1.247	1.3670E-02	0.8250	0.9342	2.469	0.1149	3.1329E-02		
3.1210E-02	1.296	1.3190E-02	0.7963	0.9346	2.472	0.1107	2.7021E-02		
3.2410E-02	1.345	1.3790E-02	0.8349	0.9353	2.476	0.1156	3.1552E-02		
3.3610E-02	1.395	1.4070E-02	0.8550	0.9353	2.476	0.1179	3.2747E-02		
3.4810E-02	1.445	1.5150E-02	0.9248	0.9353	2.476	0.1270	3.8032E-02		
3.6010E-02	1.495	1.4740E-02	0.9027	0.9341	2.469	0.1239	3.6200E-02		

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.4445
UT = 20.08

Z = 0.0000E+00
RHOW = 0.5222

TW = 264.0

DELTA = 0.2446E-01 UREF = 566.9

NPTS =

28

Y	Y DELTA	<(rho*u)> RHOW*U	<(rho*u)> RHOW*UT	U UREF	M	<u> UT	RHOW<u>***2 RHOW*UT**2
3.8100E-04	1.5576E-02	0.1406	2.735	0.5953	1.170	1.602	3.274
1.2062E-03	4.9313E-02	0.1732	3.954	0.6698	1.367	1.973	5.372
2.4285E-03	9.9285E-02	0.1580	3.972	0.7104	1.487	1.772	4.518
3.6725E-03	0.1501	0.1605	4.275	0.7287	1.545	1.781	4.696
4.8875E-03	0.1998	0.1575	4.446	0.7492	1.612	1.722	4.540
6.1115E-03	0.2499	0.1687	5.069	0.7724	1.692	1.807	5.155
7.3425E-03	0.3002	0.1562	4.969	0.7907	1.758	1.642	4.364
8.5735E-03	0.3505	0.1620	5.424	0.8048	1.813	1.675	4.650
9.7825E-03	0.3999	0.1563	5.481	0.8189	1.869	1.587	4.278
1.1010E-02	0.4501	0.1595	5.915	0.8392	1.952	1.575	4.394
1.2210E-02	0.4992	0.1577	6.235	0.8505	2.002	1.528	4.302
1.3410E-02	0.5482	0.1619	6.849	0.8648	2.067	1.532	4.550
1.4589E-02	0.5965	0.1500	6.703	0.8758	2.119	1.392	3.895
1.5820E-02	0.6467	0.1407	6.612	0.8889	2.185	1.272	3.370
1.7000E-02	0.6950	0.1293	6.343	0.9022	2.254	1.138	2.790
1.8200E-02	0.7441	0.1224	6.239	0.9137	2.317	1.050	2.446
1.9390E-02	0.7927	0.1047	5.554	0.9231	2.370	0.8787	1.758
2.0560E-02	0.8405	8.8490E-02	4.821	0.9273	2.397	0.7340	1.245
2.1770E-02	0.8900	6.640E-02	3.723	0.9296	2.413	0.5488	0.7028
2.2960E-02	0.9387	5.3510E-02	3.046	0.9299	2.420	0.4391	0.4527
2.4160E-02	0.9877	3.4990E-02	2.021	0.9289	2.419	0.2870	0.1945
2.5350E-02	1.036	3.0560E-02	1.779	0.9264	2.408	0.2516	0.1502
2.6560E-02	1.086	2.0690E-02	1.213	0.9244	2.401	0.1707	6.9436E-02
2.7770E-02	1.135	1.8090E-02	1.066	0.9230	2.398	0.1493	5.3340E-02
2.8940E-02	1.183	1.5310E-02	0.9052	0.9224	2.398	0.1263	3.8248E-02
3.0130E-02	1.232	1.5810E-02	0.9359	0.9228	2.403	0.1300	4.0501E-02
3.1310E-02	1.280	1.4250E-02	0.8425	0.9241	2.412	0.1168	3.2582E-02
3.2499E-02	1.329	1.4080E-02	0.8341	0.9261	2.424	0.1148	3.1471E-02

NORMAL HOT-WIRE SURVEYS IN TUNNEL

X = 0.4572		Z = -.8000E-03		DELTA = 0.2542E-01		UREF = 573.0		NPTS =		31	
UT = 20.29		RHOW = 0.5190		TW = 269.7		<<(rho*u)>>		M		<u>	
Y	Y	DELTA	RHOW	<<(rho*u)>>	U	UREF	RHOW*UT	U	UREF	UT	RHOW*UT**2
3.8100E-04	1.4988E-02	0.1424	0.1424	2.843	0.6171	0.6171	1.224	1.224	1.630	1.630	3.453
1.2174E-03	4.7893E-02	0.1700	0.1700	4.042	0.6804	0.6804	1.398	1.398	1.932	1.932	5.157
2.4392E-03	9.5958E-02	0.1589	0.1589	4.077	0.7224	0.7224	1.523	1.523	1.772	1.772	4.457
3.6662E-03	0.1442	0.1497	0.1497	4.111	0.7399	0.7399	1.580	1.580	1.650	1.650	3.987
4.8992E-03	0.1927	0.1669	0.1669	4.892	0.7554	0.7554	1.633	1.633	1.817	1.817	4.999
6.1162E-03	0.2406	0.1656	0.1656	5.126	0.7761	0.7761	1.704	1.704	1.769	1.769	4.918
7.3262E-03	0.2882	0.1586	0.1586	5.181	0.7927	0.7927	1.766	1.766	1.664	1.664	4.467
8.5472E-03	0.3362	0.1570	0.1570	5.352	0.8157	0.8157	1.854	1.854	1.604	1.604	4.314
9.7512E-03	0.3836	0.1575	0.1575	5.640	0.8262	0.8262	1.897	1.897	1.585	1.585	4.333
1.0977E-02	0.4318	0.1568	0.1568	5.905	0.8395	0.8395	1.953	1.953	1.548	1.548	4.241
1.2167E-02	0.4786	0.1582	0.1582	6.265	0.8551	0.8551	2.022	2.022	1.524	1.524	4.235
1.3377E-02	0.5262	0.1515	0.1515	6.286	0.8761	0.8761	2.118	2.118	1.408	1.408	3.770
1.4567E-02	0.5731	0.1491	0.1491	6.503	0.8840	0.8840	2.158	2.158	1.364	1.364	3.591
1.5787E-02	0.6211	0.1379	0.1379	6.298	0.9010	0.9010	2.244	2.244	1.219	1.219	2.981
1.6987E-02	0.6683	0.1310	0.1310	6.217	0.9145	0.9145	2.317	2.317	1.125	1.125	2.616
1.8177E-02	0.7151	0.1100	0.1100	5.444	0.9199	0.9199	2.350	2.350	0.9317	0.9317	1.825
1.9367E-02	0.7619	9.8970E-02	9.8970E-02	5.082	0.9341	0.9341	2.431	2.431	0.8107	0.8107	1.439
2.0547E-02	0.8083	8.0380E-02	8.0380E-02	4.259	0.9362	0.9362	2.448	2.448	0.6535	0.6535	0.9490
2.1727E-02	0.8547	6.0760E-02	6.0760E-02	3.303	0.9385	0.9385	2.465	2.465	0.4902	0.4902	0.5436
2.2907E-02	0.9012	5.4760E-02	5.4760E-02	3.032	0.9419	0.9419	2.490	2.490	0.4369	0.4369	0.4394
2.4117E-02	0.9488	4.3960E-02	4.3960E-02	2.459	0.9437	0.9437	2.505	2.505	0.3483	0.3483	0.2822
2.5317E-02	0.9960	2.7820E-02	2.7820E-02	1.564	0.9429	0.9429	2.505	2.505	0.2203	0.2203	0.1131
2.6517E-02	1.043	2.4030E-02	2.4030E-02	1.360	0.9433	0.9433	2.515	2.515	0.1893	0.1893	8.4091E-02
2.7717E-02	1.090	1.7770E-02	1.7770E-02	1.010	0.9433	0.9433	2.516	2.516	0.1399	0.1399	4.5979E-02
2.8887E-02	1.136	1.4120E-02	1.4120E-02	0.8067	0.9422	0.9422	2.514	2.514	0.1112	0.1112	2.9056E-02
3.0077E-02	1.183	1.5170E-02	1.5170E-02	0.8663	0.9423	0.9423	2.519	2.519	0.1191	0.1191	3.3467E-02
3.1257E-02	1.230	1.4300E-02	1.4300E-02	0.8205	0.9424	0.9424	2.519	2.519	0.1122	0.1122	2.9734E-02
3.2437E-02	1.276	1.4640E-02	1.4640E-02	0.8414	0.9424	0.9424	2.519	2.519	0.1149	0.1149	3.1238E-02
3.3647E-02	1.324	1.3620E-02	1.3620E-02	0.7842	0.9421	0.9421	2.517	2.517	0.1070	0.1070	2.7104E-02
3.4847E-02	1.371	1.3340E-02	1.3340E-02	0.7691	0.9412	0.9412	2.513	2.513	0.1051	0.1051	2.6065E-02
3.6037E-02	1.418	1.3970E-02	1.3970E-02	0.7974	0.9431	0.9431	2.523	2.523	0.1095	0.1095	2.8208E-02