

COMPILATION OF TURBULENCE DATA
FOR TWO CONCAVELY CURVED WALLS AT MACH 2.9

by

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ABSTRACT

This report presents turbulence measurements for a turbulent boundary layer flow over two concavely curved wall models at a Mach number of 2.9. The turning angle for each model was 8° , and the radius of curvature was 254 mm for Model I and 1270 mm for Model II. A constant-temperature hot-wire anemometer was used throughout. The data include normal wire and inclined wire measurements.

1. INTRODUCTION

The interaction between turbulent boundary layers and shock waves has been studied extensively at the Gas Dynamics Laboratory. The present investigation was designed to isolate the effects of compression and curvature. Instead of turning the flow suddenly, as in a compression corner, the turning is accomplished more gradually, through a short region of concavely curved wall. By spreading the pressure rise over several boundary layer thicknesses, the shock wave forms outside the boundary layer, and it has no direct effect on the boundary layer behavior.

Taylor, et al (Ref. 1) have reported mean flow measurements at Mach 2.9 for curved wall models with turning angles of 8° and 16° . We have performed normal and inclined hot-wire measurements in the 8° curved wall flow fields using the same models and flow conditions used by Taylor (Refs. 1,6). Here, we

present turbulence data for the 8° curved wall model; profiles of rms mass-flow fluctuations, rms velocity fluctuations $\sqrt{u'^2}$ and profiles of $\overline{(\rho u)'v'}$ and $\bar{\rho} \overline{u'v'}$ are tabulated. The velocity fluctuations were deduced from the mass-flow data using the Strong Reynolds Analogy (for further details see Refs. 2,3,4,7). Figures 1 and 2 (from Ref. 7) compare the 8° curved wall model results with those of an 8° compression ramp (also at Mach 2.9).

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. 5). This data compilation is companion to the compilations of turbulence data for 8° , 16° and 20° compression corners at Mach 2.9 (Refs. 2,3,4). These data are available on tape from the Gas Dynamics Laboratory upon request. Inquiries about the tape should be directed to A. Smits, c/o Gas Dynamics Laboratory, Forrestal Campus, Princeton University, Princeton, NJ 08544.

Before presenting the data, the experimental apparatus and test conditions are described in Sections 2 and 3. The coordinate system is defined in Section 4. A thorough discussion of the data analysis and uncertainties can be found in any one of the cited compression corner data compilations (Refs. 2,3,4).

2. APPARATUS

Unless stated otherwise, all experimental conditions were identical to those used in the mean flow study (Ref. 1). These

conditions are briefly summarized below.

2.1 Wind Tunnel (see Fig. 3)

The measurements were made in the Princeton University 203 mm x 203 mm (8" x 8") supersonic wind tunnel. The tunnel is of the blow-down type and consists of three constant area sections. A typical run time for a single profile was about one minute. During a single run the tunnel stagnation temperature usually fell by 5-8°K. The rms freestream mass-flow fluctuation level, expressed as a fraction of the mean freestream mass-flow rate, was about one percent.

2.2 Test Models (see Fig. 4)

The models shown in Fig. 4 were installed on the tunnel floor in the second section, 1149 mm from the nozzle exit. Each model had a curved region with an overall turning angle of 8° followed by a short, flat plate recovery section. The curved portions had radii of curvature $R = 254$ mm and $R = 1270$ mm giving $\delta_0/R = 0.10$ (Model I) and $\delta_0/R = 0.02$ (Model II), respectively. The width of each model was 152 mm, allowing a 25 mm gap on each side for the passage of the tunnel sidewall boundary layers. Aerodynamic fences were fitted to improve the two-dimensionality of the flow.

3. TEST CONDITIONS

The incoming boundary layer was fully turbulent and in equilibrium, and it was the same as the incoming boundary layer used for the compression ramp studies (Refs. 9,10,11). The nominal flow parameters for the undisturbed incoming boundary layer taken at $x = -38.0$ mm are given in Table I. These parameters are reproduced from Ref. 7. The conditions at $x = -38.0$ mm are designated as reference conditions.

The wall static pressure and skin-friction distributions taken from Ref. 1 are given in Tables 2 and 3. Streamwise distributions of various boundary layer length scales are given in Figs. 5, 6 and 7 (from Ref. 1). The skin-friction was measured with a Preston tube, using Hopkins and Keener's evaluation scheme (Ref. 8). The local skin-friction coefficients have been defined using the reference conditions to avoid ambiguity within the interaction region. The wall conditions were near-adiabatic.

4. COORDINATE DEFINITION AND MEASUREMENT LOCATIONS

The x -coordinate is defined in the streamwise direction along the surface of the wind tunnel and the curved wall model. The origin of x is at the base of the model; all locations upstream of the curved wall have negative x values, while all those on the wall have positive values. The y -coordinate is measured normal to the test surface at all x -locations. Both

normal and inclined wire measurements were made at the following x-locations (in mm):

Model I:

-12.7
0.0
12.7
25.4
50.8
76.2
114.3
152.4
177.8

Model II:

-12.7
0.0
12.7
25.4
50.8
76.2
101.6
127.0
152.4
203.2
228.6
254.0
279.4
317.5

5. DATA ANALYSIS AND UNCERTAINTIES

Details of the data reduction and estimates of uncertainties can be found in the compression ramp studies by Muck, et al (Refs. 2,3,4).

6. REFERENCES

1. Taylor, M. W., "A Supersonic Turbulent Boundary Layer on Concavely Curved Surfaces," Princeton University, MAE Report 1684, 1984.
2. Muck, K. C., Spina, E. F., and Smits, A. J., "Compilation of Turbulence Data for an 8° Compression Corner at Mach 2.9," MAE Report No. 1642, Princeton University, 1984.
3. Muck, K. C., Hayakawa, K., and Smits, A. J., "Compilation of Turbulence Data for a 16° Compression Corner at Mach 2.9," MAE Report No. 1619, Princeton University, 1983.
4. Muck, K. C., Hayakawa, K., and Smits, A. J., "Compilation of Turbulence Data for a 20° Compression Corner at Mach 2.9," MAE Report No. 1620, Princeton University, 1983.
5. Fernholz, H. H. and Finley, P. J., "A Further Compilation of Compressible Boundary Layer Data with a Survey of Turbulence Data," AGARD-AG-263, 1981.
6. Taylor, M. W. and Smits, A. J., "The Effects of a Short Region of Concave Curvature on a Supersonic Turbulent Boundary Layer," AIAA Paper 84-0169, 1984.
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8. Hopkins, E. J. and Keener, E. R., "Study of Surface Pitots for Measuring Turbulent Skin Friction at Supersonic Mach Numbers - Adiabatic Wall," NASA TN D-3478, 1966.
9. Settles, G. S., "An Experimental Study of Compressible Turbulent Boundary Layer Separation at High Reynolds Number," Ph.D. Dissertation, Aerospace and Mechanical Sciences Department, Princeton University, Princeton, NJ, September 1975.
10. Settles, G. S., Bogdonoff, S. M. and Vas, I. E., "Incipient Separation of a Supersonic Turbulent Boundary Layer at High Reynolds Numbers," AIAA Journal, Vol. 14, Jan. 1976, pp. 50-56.
11. Settles, G. S., Fitzpatrick, T. J. and Bogdonoff, S. M., "Detailed Study of Attached and Separated Compression Corner Flowfields in High Reynolds Number Supersonic Flow," AIAA Journal, Vol. 17, June 1979, pp. 579-585.

Re_{∞}/m	$6.3 \times 10^7/m$
M_{∞}	2.87
P_o	$6.9 \times 10^5 \text{ N/m}^2$
P	$2.3 \times 10^4 \text{ N/m}^2$
U_{ref}	575 m/s
ρ_{ref}	0.8 kg/m^3
δ_o	25 mm

Table 1. Incoming flow parameters at $x = -38 \text{ mm}$.

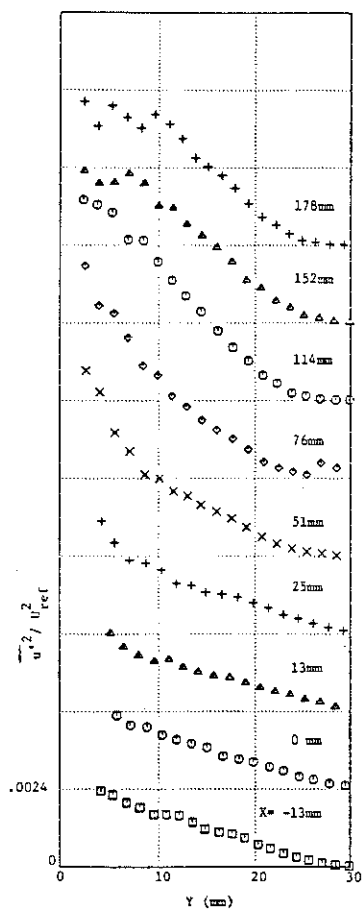
Model I		Model II	
X (mm)	Pw/Pref	X (mm)	Pw/Pref
- 38.1	0.991	- 38.1	1.013
- 25.4	1.009	- 25.4	0.996
- 12.7	0.983	- 12.7	1.004
0.0	1.026	0.0	1.022
6.4	1.078	12.7	1.035
12.7	1.152	25.4	1.074
19.1	1.255	38.1	1.113
25.4	1.351	50.8	1.147
31.8	1.489	63.5	1.173
50.8	1.576	76.2	1.009
63.5	1.649	88.9	1.281
76.2	1.671	101.6	1.346
101.6	1.749	114.3	1.407
127.0	1.732	127.0	1.437
152.4	1.766	139.7	1.506
177.8	1.805	152.4	1.571
		165.1	1.680
		177.8	1.758
		190.5	1.753
		203.2	1.831
		215.9	1.891
		228.6	1.905
		241.3	1.926
		254.0	1.848
		266.7	1.827
		279.4	1.810
		292.1	1.814

Pref = 2.31 E04 N/M**2

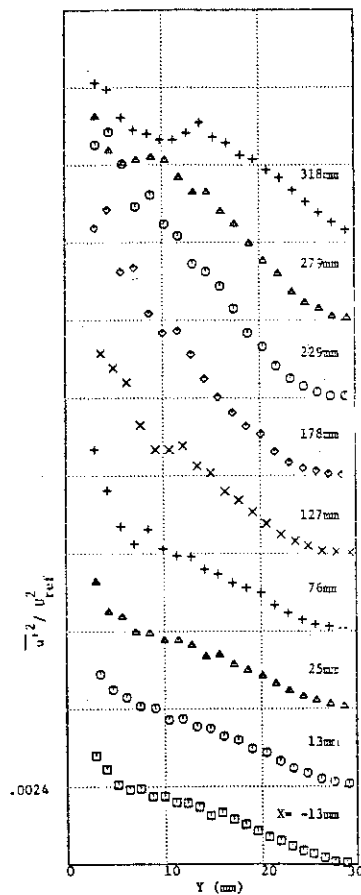
Table 2: Wall Static Pressures

Model I		Model II	
X (mm)	Cf	X (mm)	Cf
- 38.1	0.00112	- 38.1	0.001040
- 25.4	0.00112	- 25.4	0.001043
- 12.7	0.00108	- 12.7	0.001066
0.0	0.00102	0.0	0.001074
6.4	0.00097	12.7	0.001081
12.7	0.00095	25.4	0.001085
19.1	0.00090	50.8	0.001052
25.4	0.00089	76.2	0.001051
50.8	0.00097	101.6	0.001051
76.2	0.00100	127.0	0.001060
114.3	0.00108	152.4	0.001077
152.4	0.00110	177.8	0.001046
177.8	0.00111	203.2	0.001069
		228.6	0.001095
		254.0	0.001143
		279.4	0.001188
		317.5	0.001215

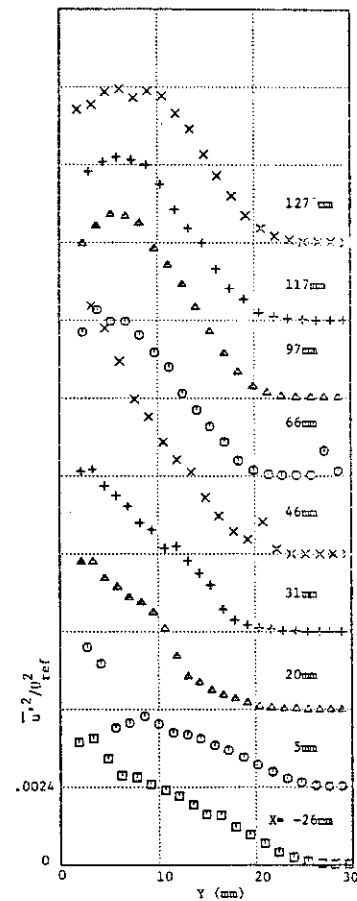
Table 3: Skin-Friction Distributions



(a)



(b)



(c)

Fig. 1. Profiles of normalized longitudinal turbulence intensity ($\overline{u'^2}/U_{ref}^2$)

(a) Model I

(b) Model II

(c) Compression corner

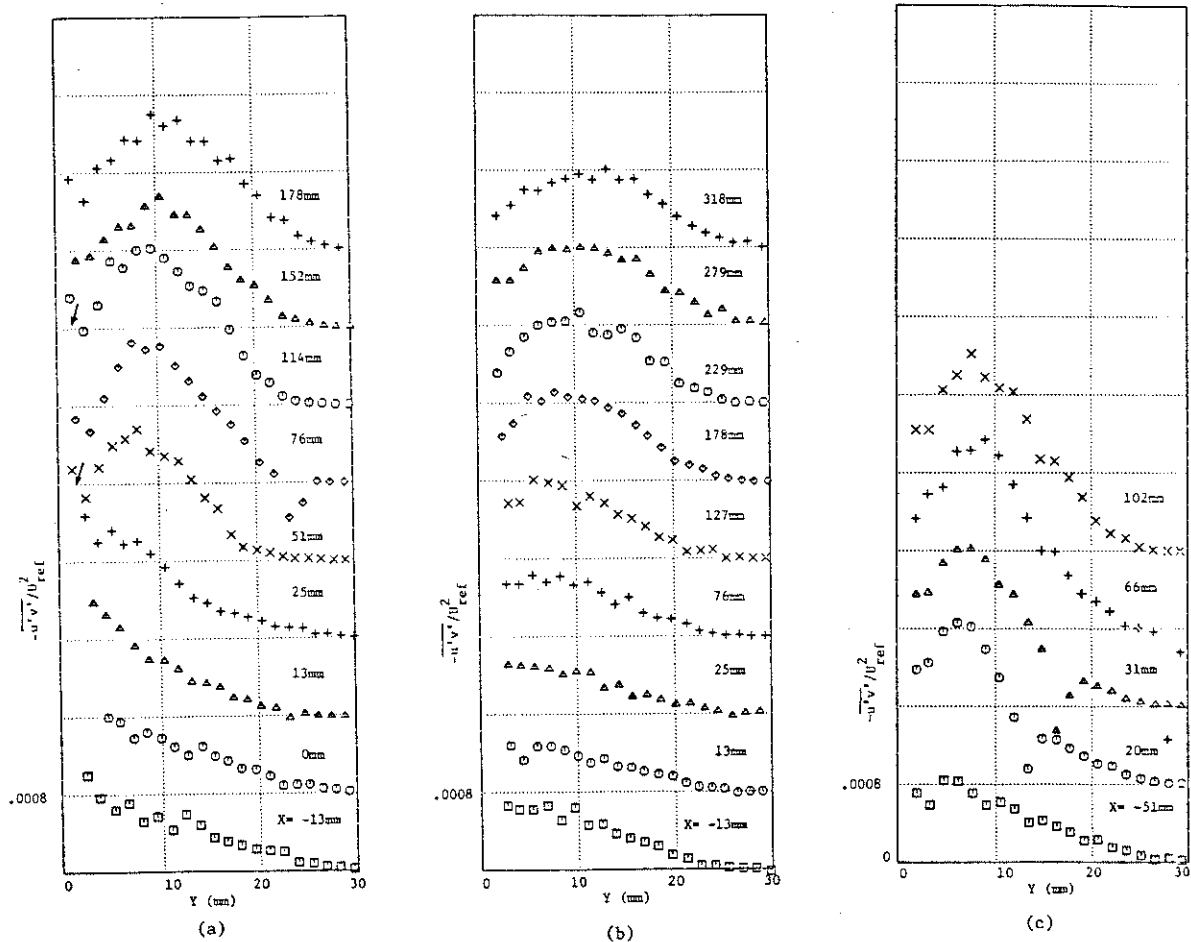


Fig. 2. Profiles of normalized kinematic shear stress
 $(-\overline{u'v'}/U_{ref}^2)$

- (a) Model I
- (b) Model II
- (c) Compression corner

Arrow indicates location where the Mach number
normal to the hot-wire is 1.2.

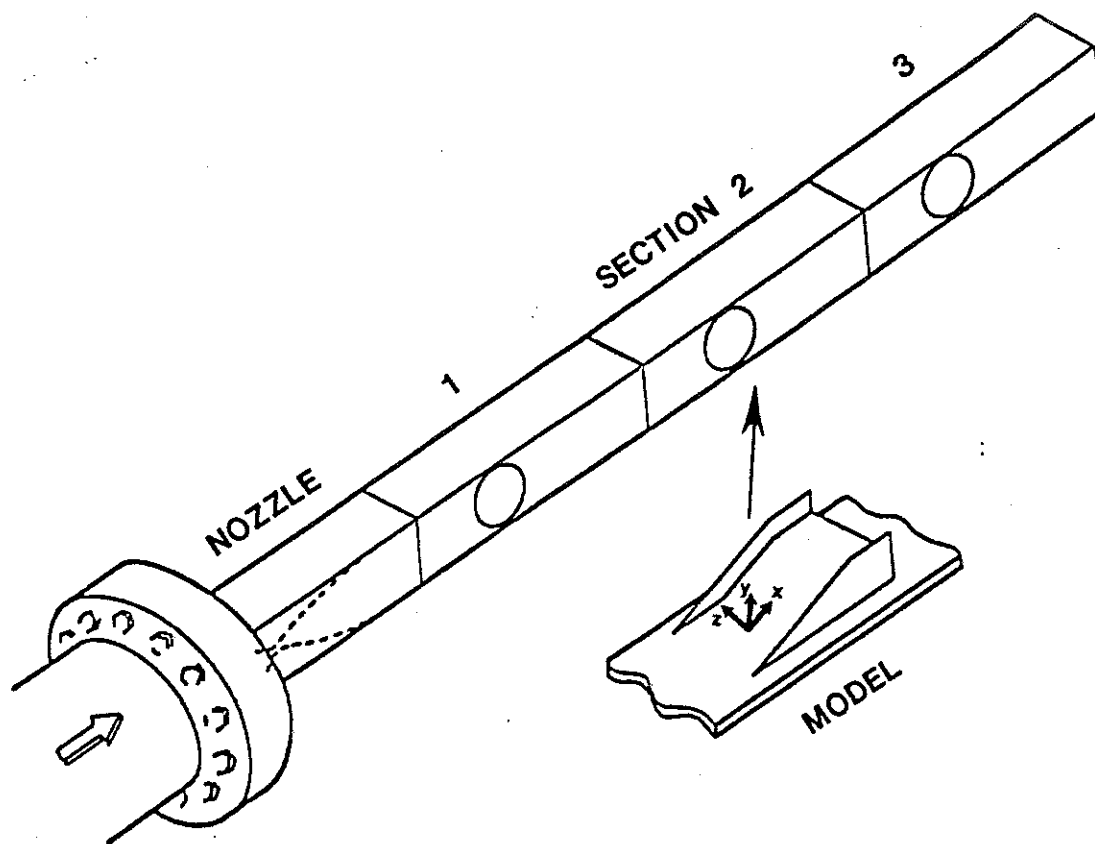


Fig. 3. Sketch of the 203 mm x 203 mm wind tunnel and test model installation.

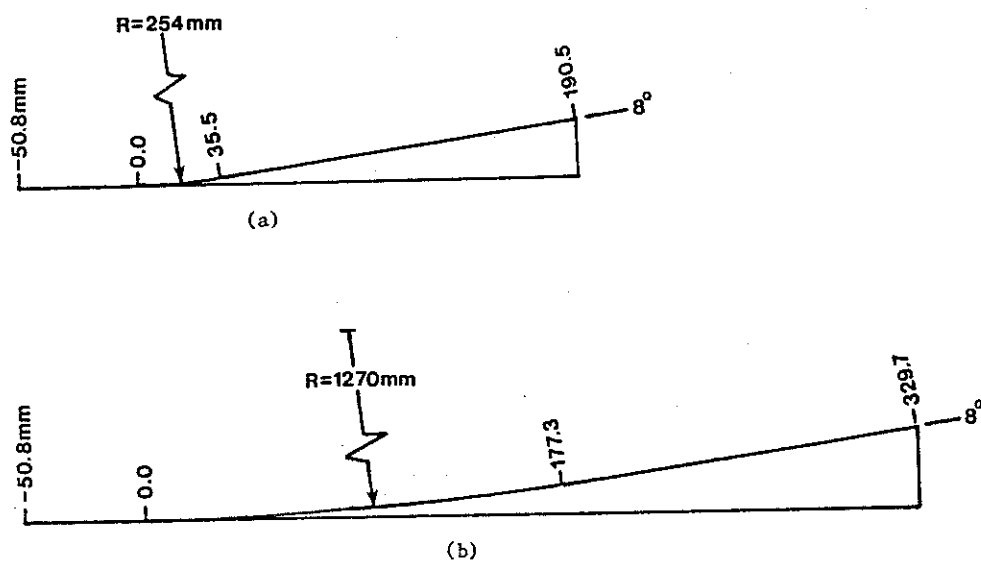


Fig. 4. Model contours of 8° compression with surface curvature.

(a) Model I $\delta_o/R = 0.10$

(b) Model II $\delta_o/R = 0.02$

All dimensions in mm.

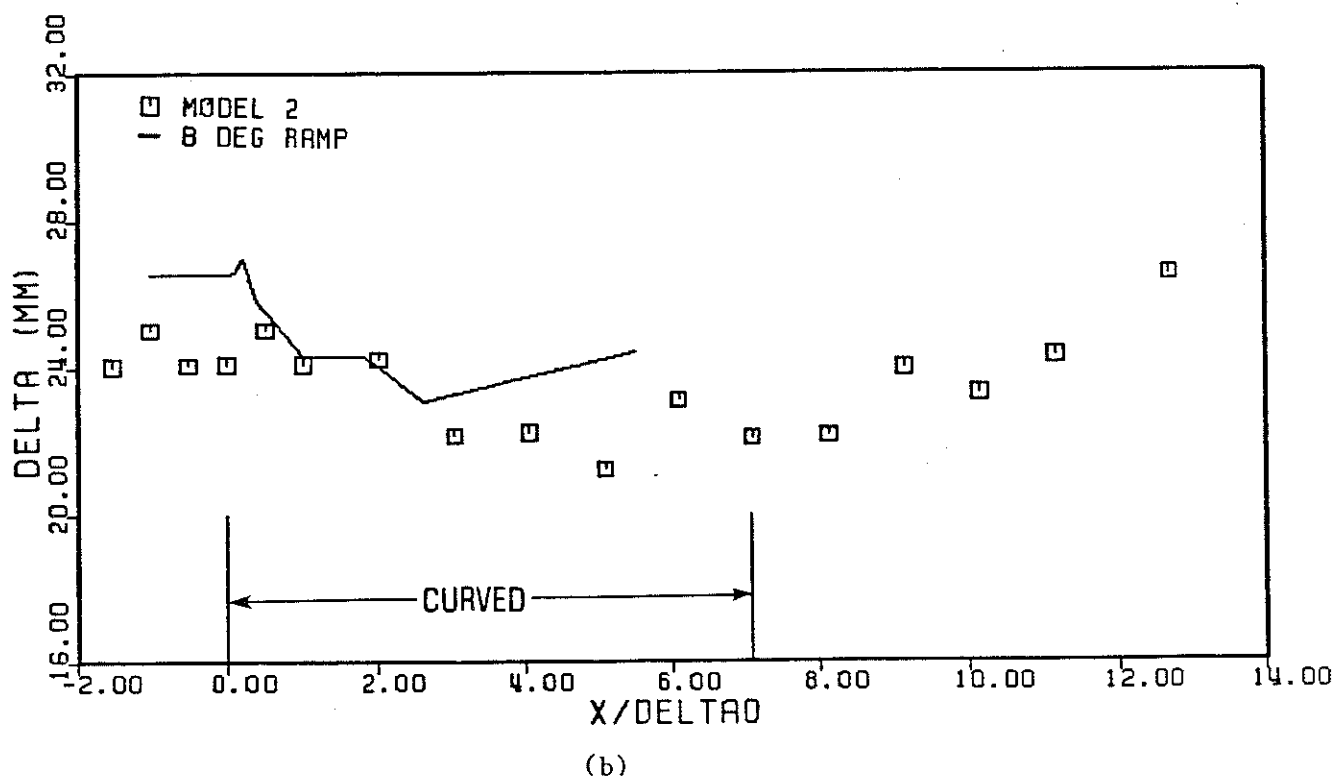
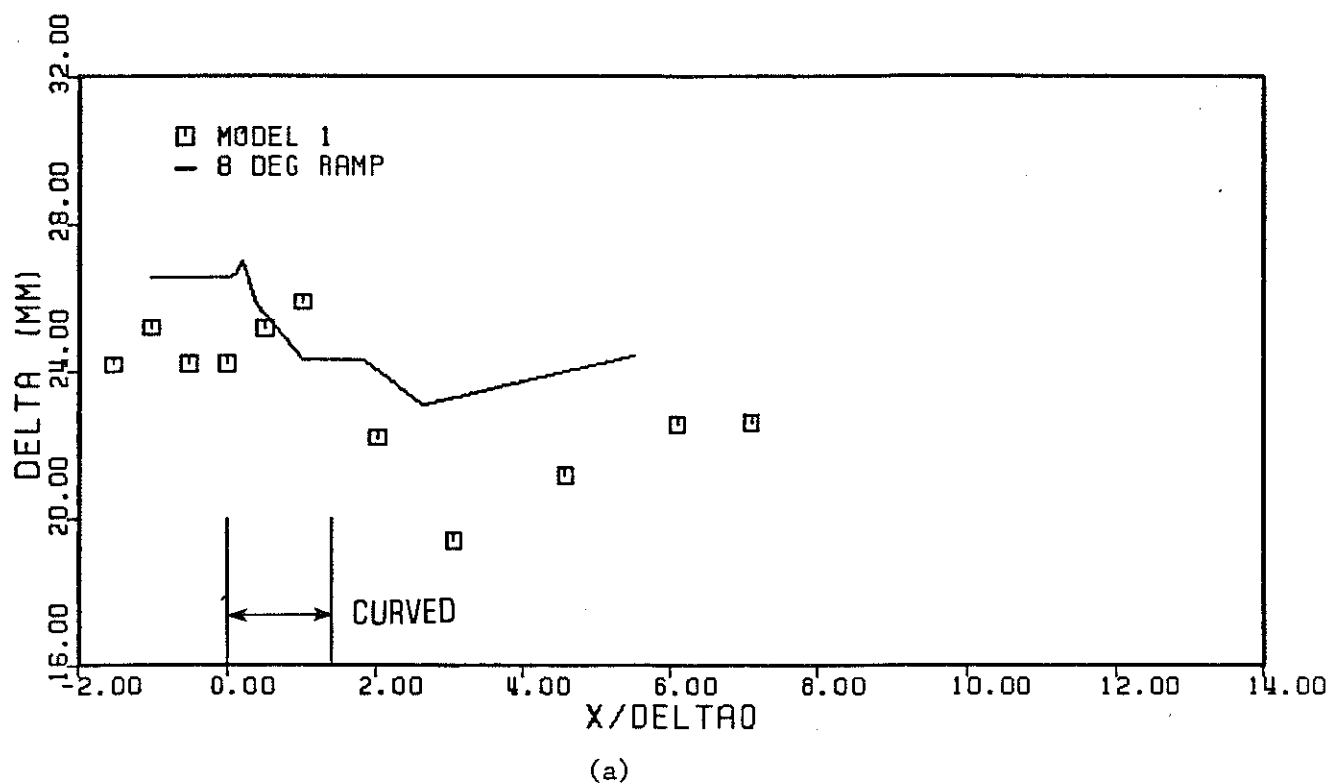
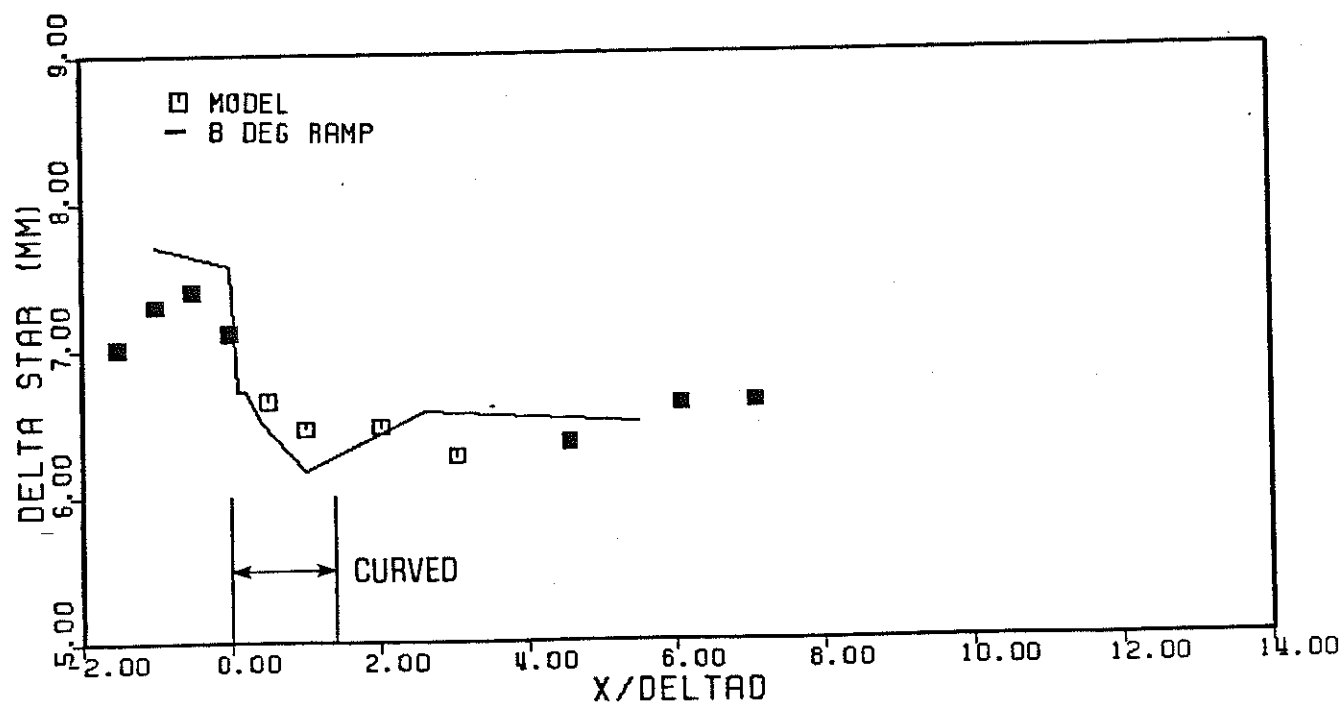
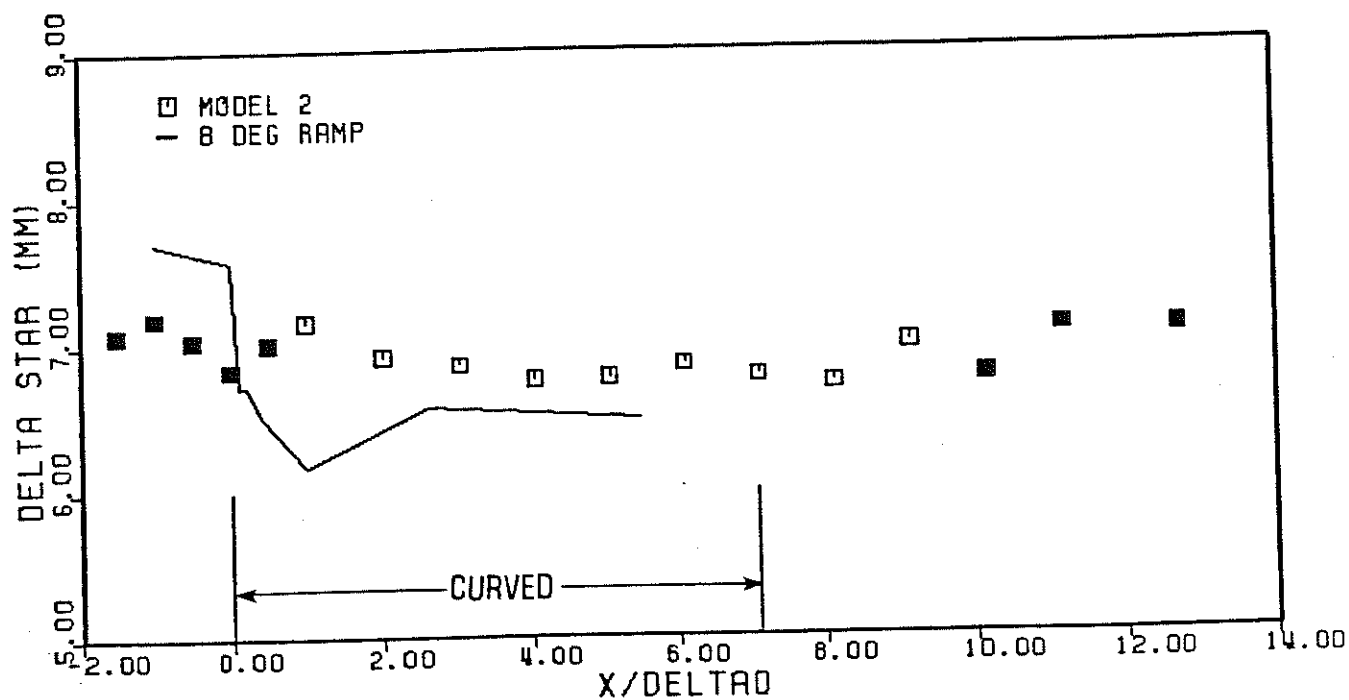


Fig. 5. Streamwise distribution of boundary layer thickness for a) Model I, b) Model II.



(a)



(b)

Fig. 6. Streamwise distribution of displacement thickness for a) Model I, b) Model II. Closed symbols - standard definition. Open symbols - pressure variation included.

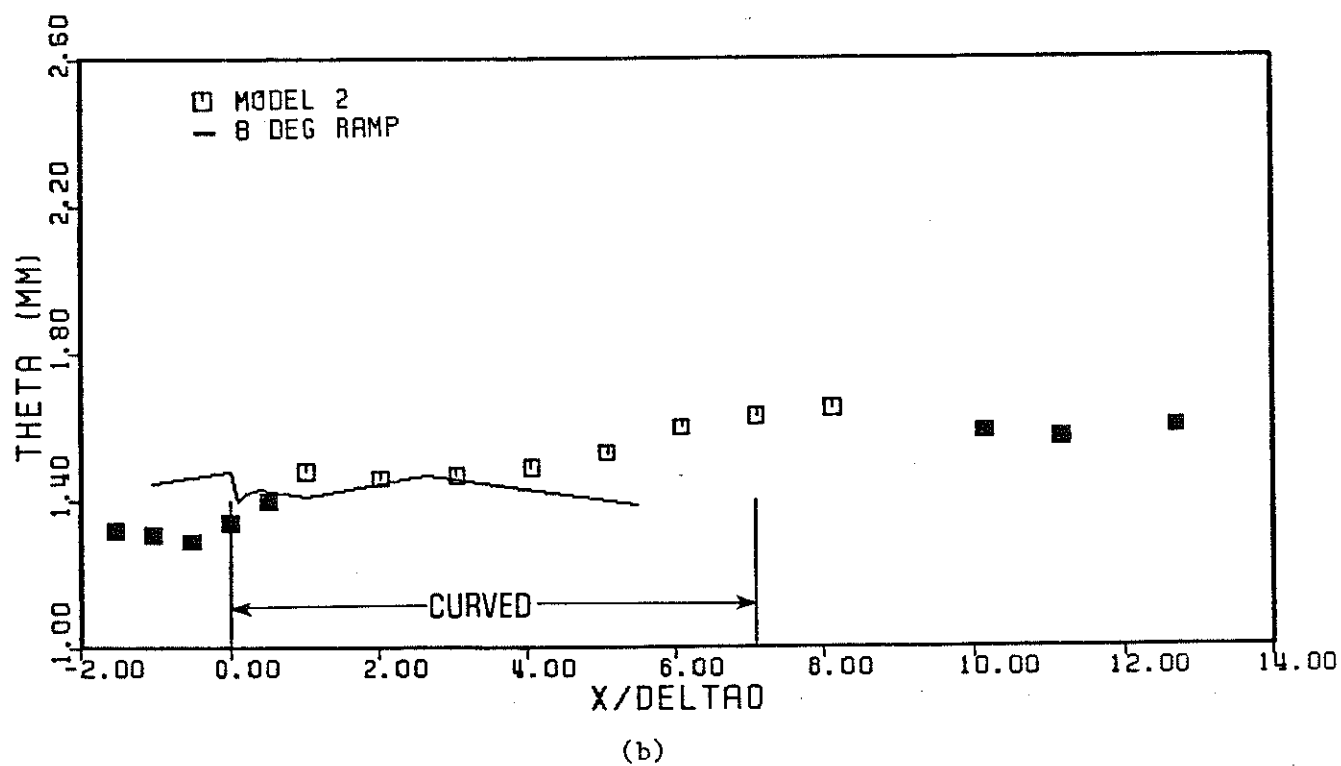
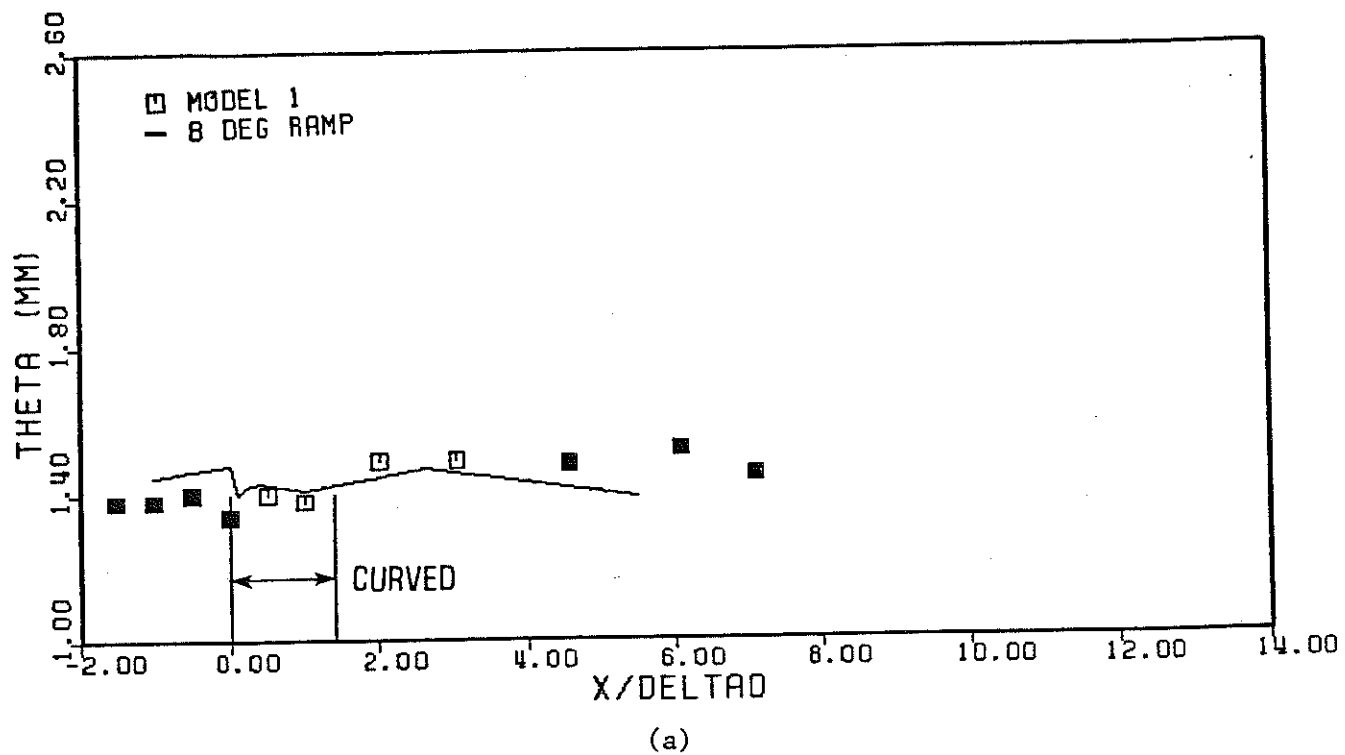


Fig. 7. Streamwise distribution of momentum thickness for a) Model I, b) Model II. Closed symbols - standard definition. Open symbols - pressure variation included.

MODEL I

Normal and inclined wire turbulence data

X=-0.0127 UT= 2.2503E+01 RHO= 2.7378E-01 TW= 2.8865E+02 D= 2.4200E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHO*UT	U UREF	M	U' UT	RHO*U'2 RHO*UT2
1	4.1900E-03	1.7314E-01	1.3255E-01	5.0432E+00	8.1326E-01	1.8387E+00	1.2328E+00	2.7825E+00
2	5.4020E-03	2.2322E-01	1.3280E-01	5.3348E+00	8.3092E-01	1.9093E+00	1.2068E+00	2.7554E+00
3	6.7660E-03	2.7959E-01	1.2934E-01	5.5865E+00	8.5380E-01	2.0070E+00	1.1356E+00	2.5532E+00
4	8.1220E-03	3.3562E-01	1.2888E-01	5.9847E+00	8.7587E-01	2.1075E+00	1.0903E+00	2.4664E+00
5	9.4690E-03	3.9128E-01	1.2471E-01	6.0529E+00	8.8848E-01	2.1700E+00	1.0296E+00	2.2663E+00
6	1.0832E-02	4.4760E-01	1.2702E-01	6.3814E+00	8.9780E-01	2.2192E+00	1.0281E+00	2.3149E+00
7	1.2187E-02	5.0359E-01	1.2955E-01	6.7829E+00	9.0895E-01	2.2797E+00	1.0232E+00	2.3601E+00
8	1.3550E-02	5.5992E-01	1.2380E-01	6.8473E+00	9.2319E-01	2.3619E+00	9.4507E-01	2.0941E+00
9	1.4917E-02	6.1640E-01	1.1924E-01	7.0060E+00	9.3917E-01	2.4553E+00	8.7589E-01	1.8783E+00
10	1.6267E-02	6.7219E-01	1.1800E-01	7.2253E+00	9.4927E-01	2.5197E+00	8.4354E-01	1.7963E+00
11	1.7607E-02	7.2756E-01	1.1645E-01	7.3655E+00	9.5664E-01	2.5709E+00	8.1429E-01	1.7158E+00
12	1.8947E-02	7.8293E-01	1.1334E-01	7.4990E+00	9.6686E-01	2.6433E+00	7.6829E-01	1.5808E+00
13	2.0327E-02	8.3996E-01	1.0288E-01	7.2157E+00	9.8039E-01	2.7400E+00	6.6938E-01	1.2545E+00
14	2.1627E-02	8.9368E-01	9.5109E-02	6.8059E+00	9.8396E-01	2.7731E+00	6.0966E-01	1.0579E+00
15	2.3007E-02	9.5070E-01	8.3881E-02	6.1200E+00	9.8732E-01	2.8049E+00	5.3005E-01	8.1252E-01
16	2.4367E-02	1.0069E+00	7.0305E-02	5.2119E+00	9.8988E-01	2.8306E+00	4.3911E-01	5.6513E-01
17	2.5747E-02	1.0639E+00	5.9752E-02	4.4467E+00	9.8964E-01	2.8355E+00	3.7210E-01	4.0747E-01
18	2.7137E-02	1.1214E+00	4.4098E-02	3.2988E+00	9.9045E-01	2.8441E+00	2.7354E-01	2.2117E-01
19	2.8507E-02	1.1780E+00	3.5653E-02	2.6775E+00	9.9130E-01	2.8510E+00	2.2051E-01	1.4416E-01
20	2.9867E-02	1.2342E+00	2.4915E-02	1.8711E+00	9.9130E-01	2.8510E+00	1.5409E-01	7.0399E-02
21	3.1247E-02	1.2912E+00	1.8637E-02	1.4031E+00	9.9192E-01	2.8557E+00	1.1504E-01	3.9309E-02
22	3.2557E-02	1.3453E+00	1.7515E-02	1.3208E+00	9.9235E-01	2.8590E+00	1.0797E-01	3.4666E-02
23	3.3867E-02	1.3995E+00	1.3825E-02	1.0425E+00	9.9235E-01	2.8590E+00	8.5217E-02	2.1597E-02
24	3.5167E-02	1.4532E+00	1.2250E-02	9.2379E-01	9.9235E-01	2.8590E+00	7.5513E-02	1.6958E-02
25	3.6487E-02	1.5077E+00	1.1615E-02	8.7591E-01	9.9235E-01	2.8590E+00	7.1599E-02	1.5246E-02
26	3.7797E-02	1.5619E+00	1.2298E-02	9.2736E-01	9.9235E-01	2.8590E+00	7.5805E-02	1.7090E-02
27	3.9187E-02	1.6193E+00	1.1926E-02	8.9934E-01	9.9235E-01	2.8590E+00	7.3514E-02	1.6072E-02
28	4.0587E-02	1.6771E+00	1.1493E-02	8.6784E-01	9.9264E-01	2.8614E+00	7.0774E-02	1.4912E-02
29	4.1997E-02	1.7354E+00	1.1512E-02	8.7155E-01	9.9322E-01	2.8660E+00	7.0752E-02	1.4933E-02
30	4.3367E-02	1.7920E+00	1.1641E-02	8.6130E-01	9.9322E-01	2.8660E+00	7.1543E-02	1.5269E-02

X= 0.0000 UT= 2.1936E+01

RHDW= 2.8813E-01

TM= 2.8636E+02

D= 2.4210E-02

I	Y (M)	Y/D	(RHD U) ' RHD U	(RHD U) ' RHDW*UT	U UREF	M	U ' UT	RHD*U '2
1	5.8400E-03	2.4122E-01	1.3489E-01	5.4459E+00	8.3153E-01	1.9173E+00	1.2521E+00	2.9037E+00
2	7.2000E-03	2.9740E-01	1.2841E-01	5.4219E+00	8.4509E-01	1.9766E+00	1.1669E+00	2.5953E+00
3	8.7700E-03	3.6225E-01	1.3219E-01	6.0832E+00	8.7167E-01	2.0957E+00	1.1501E+00	2.6638E+00
4	1.0360E-02	4.2792E-01	1.2584E-01	6.0280E+00	8.8278E-01	2.1520E+00	1.0708E+00	2.3735E+00
5	1.1942E-02	4.9327E-01	1.2541E-01	6.4295E+00	9.0201E-01	2.2498E+00	1.0268E+00	2.2862E+00
6	1.3525E-02	5.5865E-01	1.2333E-01	6.5652E+00	9.1163E-01	2.3053E+00	9.8675E-01	2.1691E+00
7	1.5132E-02	6.2503E-01	1.2098E-01	6.7882E+00	9.2497E-01	2.3842E+00	9.3660E-01	2.0301E+00
8	1.6709E-02	6.9017E-01	1.1338E-01	6.8466E+00	9.4412E-01	2.4980E+00	8.3761E-01	1.7118E+00
9	1.8288E-02	7.5539E-01	1.1140E-01	7.0216E+00	9.5411E-01	2.5658E+00	7.9941E-01	1.6105E+00
10	1.9846E-02	8.1974E-01	1.0973E-01	7.2161E+00	9.6357E-01	2.6336E+00	7.6472E-01	1.5225E+00
11	2.1458E-02	8.8633E-01	1.0067E-01	6.8561E+00	9.7096E-01	2.6906E+00	6.8437E-01	1.2532E+00
12	2.3048E-02	9.5200E-01	9.4860E-02	6.6896E+00	9.7807E-01	2.7480E+00	6.2884E-01	1.0877E+00
13	2.4664E-02	1.0188E+00	7.9305E-02	5.7697E+00	9.8415E-01	2.7999E+00	5.1389E-01	7.4475E-01
14	2.6249E-02	1.0842E+00	7.0310E-02	5.1683E+00	9.8522E-01	2.8160E+00	4.5203E-01	5.8158E-01
15	2.7876E-02	1.1514E+00	5.6476E-02	4.1513E+00	9.8522E-01	2.8160E+00	3.6309E-01	3.7523E-01
16	2.9486E-02	1.2179E+00	4.2279E-02	3.1078E+00	9.8522E-01	2.8160E+00	2.7182E-01	2.1029E-01
17	3.1091E-02	1.2842E+00	2.7475E-02	2.0155E+00	9.8477E-01	2.8124E+00	1.7692E-01	8.8945E-02
18	3.2670E-02	1.3494E+00	2.0396E-02	1.4934E+00	9.8435E-01	2.8090E+00	1.3152E-01	4.9085E-02
19	3.4300E-02	1.4168E+00	1.4618E-02	1.0703E+00	9.8435E-01	2.8090E+00	9.4264E-02	2.5214E-02
20	3.5900E-02	1.4829E+00	1.1148E-02	8.1622E-01	9.8435E-01	2.8090E+00	7.1886E-02	1.4663E-02
21	3.7530E-02	1.5502E+00	1.0128E-02	7.3904E-01	9.8352E-01	2.8035E+00	6.5453E-02	1.2126E-02
22	3.9140E-02	1.6167E+00	9.3395E-03	6.7933E-01	9.8279E-01	2.7979E+00	6.0503E-02	1.0335E-02

X= 0. 0127 UT= 1. 9936E+01 RHDW= 3. 2224E-01 TM= 2. 6740E+02 D= 2. 5180E-02

I	Y (M)	Y/D	(RHD U)' RHD U	(RHD U)' RHDW*UT	U UREF	M	U' UT	RHD*U'2 RHDW*UT2
1	5. 2000E-03	2. 0651E-01	1. 3453E-01	5. 5702E+00	7. 9726E-01	1. 7986E+00	1. 4201E+00	3. 6314E+00
2	6. 5300E-03	2. 5933E-01	1. 2518E-01	5. 4957E+00	8. 1614E-01	1. 8745E+00	1. 2892E+00	3. 0998E+00
3	8. 0400E-03	3. 1930E-01	1. 2023E-01	5. 5773E+00	8. 3330E-01	1. 9467E+00	1. 2079E+00	2. 8162E+00
4	9. 6200E-03	3. 8205E-01	1. 1683E-01	5. 8170E+00	8. 5509E-01	2. 0422E+00	1. 1343E+00	2. 5976E+00
5	1. 1120E-02	4. 4162E-01	1. 2211E-01	6. 3194E+00	8. 6583E-01	2. 0954E+00	1. 1613E+00	2. 7950E+00
6	1. 2630E-02	5. 0159E-01	1. 1615E-01	6. 4099E+00	8. 8444E-01	2. 1875E+00	1. 0660E+00	2. 4582E+00
7	1. 4215E-02	5. 6454E-01	1. 1279E-01	6. 4317E+00	8. 9287E-01	2. 2343E+00	1. 0154E+00	2. 2831E+00
8	1. 5813E-02	6. 2800E-01	1. 0991E-01	6. 5878E+00	9. 0601E-01	2. 3074E+00	9. 6035E-01	2. 1155E+00
9	1. 7404E-02	6. 9118E-01	1. 1096E-01	7. 0394E+00	9. 2066E-01	2. 3928E+00	9. 3594E-01	2. 0929E+00
10	1. 8973E-02	7. 5349E-01	1. 0546E-01	7. 0143E+00	9. 3243E-01	2. 4656E+00	8. 6288E-01	1. 8414E+00
11	2. 0542E-02	8. 1581E-01	9. 8904E-02	6. 7839E+00	9. 3925E-01	2. 5133E+00	7. 9260E-01	1. 5906E+00
12	2. 2116E-02	8. 7831E-01	9. 2597E-02	6. 5587E+00	9. 4627E-01	2. 5631E+00	7. 2620E-01	1. 3687E+00
13	2. 3724E-02	9. 4217E-01	8. 5304E-02	6. 1468E+00	9. 4928E-01	2. 5895E+00	6. 6096E-01	1. 1498E+00
14	2. 5335E-02	1. 0062E+00	7. 4829E-02	5. 4754E+00	9. 5186E-01	2. 6129E+00	5. 7360E-01	8. 7693E-01
15	2. 6925E-02	1. 0693E+00	6. 5848E-02	4. 8726E+00	9. 5402E-01	2. 6304E+00	5. 0083E-01	6. 7454E-01
16	2. 8530E-02	1. 1330E+00	4. 5474E-02	3. 9855E+00	9. 5553E-01	2. 6403E+00	3. 4441E-01	3. 2044E-01
17	3. 0160E-02	1. 1978E+00	3. 3469E-02	2. 5002E+00	9. 5635E-01	2. 6460E+00	2. 5291E-01	1. 7323E-01
18	3. 1762E-02	1. 2614E+00	2. 6664E-02	1. 9918E+00	9. 5635E-01	2. 6460E+00	2. 0149E-01	1. 0995E-01
19	3. 3260E-02	1. 3209E+00	2. 0692E-02	1. 5457E+00	9. 5635E-01	2. 6460E+00	1. 5636E-01	6. 6212E-02
20	3. 4790E-02	1. 3817E+00	1. 8012E-02	1. 3431E+00	9. 5591E-01	2. 6431E+00	1. 3627E-01	5. 0226E-02
21	3. 6340E-02	1. 4432E+00	1. 2028E-02	8. 9468E-01	9. 5530E-01	2. 6390E+00	9. 1159E-02	2. 2433E-02
22	3. 7860E-02	1. 5036E+00	1. 1029E-02	8. 2037E-01	9. 5530E-01	2. 6390E+00	8. 3588E-02	1. 8862E-02
23	3. 9400E-02	1. 5647E+00	1. 1307E-02	8. 3834E-01	9. 5452E-01	2. 6337E+00	8. 5876E-02	1. 9862E-02

X= 0.0254		UT= 1.5961E+01		RHOW= 3.7835E-01		TW= 2.8709E+02		D= 2.5880E-02	
I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHOW*UT	U UREF	M	U' UT	RHO*U'2 RHOW*UT2	
1	4.3100E-03	1.6654E-01	1.5563E-01	7.0591E+00	7.5071E-01	1.6455E+00	2.1296E+00	7.6065E+00	
2	5.6400E-03	2.1793E-01	1.4287E-01	6.9439E+00	7.7441E-01	1.7296E+00	1.9118E+00	6.3678E+00	
3	7.1400E-03	2.7589E-01	1.3269E-01	6.9724E+00	8.0023E-01	1.8283E+00	1.7233E+00	5.4131E+00	
4	8.7200E-03	3.3694E-01	1.3221E-01	7.2810E+00	8.1480E-01	1.8891E+00	1.6823E+00	5.3096E+00	
5	1.0310E-02	3.9838E-01	1.2740E-01	7.2298E+00	8.2341E-01	1.9273E+00	1.5991E+00	4.8921E+00	
6	1.1880E-02	4.5904E-01	1.1619E-01	6.9467E+00	8.3907E-01	1.9973E+00	1.4221E+00	4.0000E+00	
7	1.3470E-02	5.2048E-01	1.1629E-01	7.2340E+00	8.5028E-01	2.0508E+00	1.3948E+00	3.9511E+00	
8	1.5040E-02	5.8114E-01	1.1052E-01	7.1781E+00	8.6241E-01	2.1106E+00	1.2954E+00	3.5081E+00	
9	1.6637E-02	6.4285E-01	1.1034E-01	7.4899E+00	8.7464E-01	2.1727E+00	1.2622E+00	3.4321E+00	
10	1.8237E-02	7.0468E-01	1.0793E-01	7.5818E+00	8.8346E-01	2.2209E+00	1.2108E+00	3.2356E+00	
11	1.9815E-02	7.6565E-01	1.0222E-01	7.4218E+00	8.9178E-01	2.2688E+00	1.1242E+00	2.8563E+00	
12	2.1390E-02	8.2651E-01	9.5216E-02	7.1437E+00	8.9980E-01	2.3169E+00	1.0262E+00	2.4373E+00	
13	2.2955E-02	8.8698E-01	8.3754E-02	6.4537E+00	9.0598E-01	2.3559E+00	8.8778E-01	1.8607E+00	
14	2.4562E-02	9.4908E-01	7.4648E-02	5.8732E+00	9.1039E-01	2.3860E+00	7.8090E-01	1.4629E+00	
15	2.6163E-02	1.0109E+00	6.3783E-02	5.0856E+00	9.1284E-01	2.4050E+00	6.6150E-01	1.0609E+00	
16	2.7763E-02	1.0728E+00	4.9598E-02	3.9546E+00	9.1270E-01	2.4050E+00	5.1430E-01	6.4141E-01	
17	2.9280E-02	1.1314E+00	3.7571E-02	2.9957E+00	9.1270E-01	2.4050E+00	3.8959E-01	3.6806E-01	
18	3.0818E-02	1.1908E+00	3.0073E-02	2.4038E+00	9.1343E-01	2.4087E+00	3.1140E-01	2.3554E-01	
19	3.2341E-02	1.2497E+00	2.4082E-02	1.9320E+00	9.1448E-01	2.4146E+00	2.4878E-01	1.5071E-01	
20	3.3872E-02	1.3088E+00	1.6804E-02	1.3514E+00	9.1514E-01	2.4189E+00	1.7327E-01	7.3236E-02	
21	3.5380E-02	1.3671E+00	1.4255E-02	1.1422E+00	9.1415E-01	2.4124E+00	1.4740E-01	5.2860E-02	
22	3.6910E-02	1.4262E+00	1.2313E-02	9.8635E-01	9.1409E-01	2.4120E+00	1.2734E-01	3.9446E-02	
23	3.8380E-02	1.4830E+00	1.1533E-02	9.2601E-01	9.1471E-01	2.4161E+00	1.1907E-01	3.4542E-02	

X= 0.0508

UT= 1.4342E+01

RHOW= 4.4294E-01

TW= 2.8610E+02

D= 2.2300E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHOW*UT	U UREF	M	U' UT	RHD*U'2 RHOW*UT2
1	2.7400E-03	1.2342E-01	1.9274E-01	8.2316E+00	6.8487E-01	1.4471E+00	3.0344E+00	1.4322E+01
2	4.1100E-03	1.8514E-01	1.8558E-01	8.8119E+00	7.2293E-01	1.5684E+00	2.8578E+00	1.3380E+01
3	5.6100E-03	2.5270E-01	1.6546E-01	8.6411E+00	7.5582E-01	1.6820E+00	2.4787E+00	1.0589E+01
4	7.1000E-03	3.1982E-01	1.5711E-01	8.9866E+00	7.8642E-01	1.7949E+00	2.2795E+00	9.4264E+00
5	8.6100E-03	3.8784E-01	1.4358E-01	8.9299E+00	8.1347E-01	1.9039E+00	2.0110E+00	7.7117E+00
6	1.0100E-02	4.5495E-01	1.4575E-01	9.7872E+00	8.3721E-01	2.0070E+00	1.9689E+00	7.7555E+00
7	1.1610E-02	5.2297E-01	1.3835E-01	9.9911E+00	8.5878E-01	2.1080E+00	1.8001E+00	6.7959E+00
8	1.3120E-02	5.9099E-01	1.3634E-01	1.0248E+01	8.6963E-01	2.1638E+00	1.7353E+00	6.4925E+00
9	1.4535E-02	6.5473E-01	1.2831E-01	1.0042E+01	8.8060E-01	2.2217E+00	1.5959E+00	5.6462E+00
10	1.6123E-02	7.2626E-01	1.2050E-01	9.5170E+00	8.8188E-01	2.2331E+00	1.4906E+00	4.9627E+00
11	1.7639E-02	7.9455E-01	1.1205E-01	8.9250E+00	8.8299E-01	2.2447E+00	1.3780E+00	4.2723E+00
12	1.9138E-02	8.6207E-01	9.6997E-02	7.6679E+00	8.7938E-01	2.2319E+00	1.1973E+00	3.2142E+00
13	2.0710E-02	9.3288E-01	7.8155E-02	6.0975E+00	8.7411E-01	2.2103E+00	9.7170E-01	2.1020E+00
14	2.2281E-02	1.0036E+00	6.4305E-02	5.0610E+00	8.7531E-01	2.2213E+00	7.9523E-01	1.4182E+00
15	2.3884E-02	1.0759E+00	5.0094E-02	3.9631E+00	8.7546E-01	2.2271E+00	6.1739E-01	8.5918E-01
16	2.5496E-02	1.1485E+00	3.7958E-02	3.0084E+00	8.7464E-01	2.2280E+00	4.6712E-01	4.9318E-01
17	2.7092E-02	1.2204E+00	2.8242E-02	2.2394E+00	8.7426E-01	2.2280E+00	3.4741E-01	2.7303E-01
18	2.8607E-02	1.2886E+00	1.9780E-02	1.5684E+00	8.7426E-01	2.2280E+00	2.4331E-01	1.3392E-01
19	3.0158E-02	1.3585E+00	1.8050E-02	1.4317E+00	8.7436E-01	2.2285E+00	2.2198E-01	1.1150E-01
20	3.1683E-02	1.4272E+00	1.1472E-02	9.1317E-01	8.7543E-01	2.2339E+00	1.4080E-01	4.4961E-02
21	3.3116E-02	1.4917E+00	1.1114E-02	8.8295E-01	8.7486E-01	2.2310E+00	1.3655E-01	4.2235E-02
22	3.4640E-02	1.5604E+00	1.0410E-02	8.2544E-01	8.7426E-01	2.2280E+00	1.2806E-01	3.7095E-02
23	3.6160E-02	1.6288E+00	1.0249E-02	8.1348E-01	8.7455E-01	2.2296E+00	1.2600E-01	3.5936E-02
24	3.7710E-02	1.6986E+00	1.0273E-02	8.2115E-01	8.7671E-01	2.2412E+00	1.2571E-01	3.5934E-02
25	3.9250E-02	1.7680E+00	1.0629E-02	8.5053E-01	8.7704E-01	2.2430E+00	1.2997E-01	3.8439E-02

X= 0.0762

UT= 1.6641E+01

RHOM= 4.7204E-01

TW= 2.8470E+02

D= 1.9420E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHOM*UT	U UREF	M	U' UT	RHO*U'2 RHOM*UT2
1	2.5900E-03	1.3337E-01	2.0478E-01	7.3056E+00	6.8075E-01	1.4246E+00	2.8007E+00	1.1897E+01
2	3.9600E-03	2.0391E-01	1.8765E-01	7.3154E+00	7.1269E-01	1.5237E+00	2.5254E+00	1.0096E+01
3	5.4600E-03	2.8115E-01	1.8866E-01	8.1931E+00	7.5079E-01	1.6509E+00	2.4680E+00	1.0196E+01
4	6.8700E-03	3.5376E-01	1.7832E-01	8.3070E+00	7.7461E-01	1.7370E+00	2.2787E+00	9.0373E+00
5	8.3900E-03	4.3203E-01	1.6514E-01	8.4388E+00	8.0500E-01	1.8544E+00	2.0354E+00	7.6108E+00
6	9.8800E-03	5.0875E-01	1.6232E-01	8.8139E+00	8.2424E-01	1.9341E+00	1.9478E+00	7.2334E+00
7	1.1388E-02	5.8641E-01	1.5198E-01	9.0485E+00	8.5263E-01	2.0600E+00	1.7433E+00	6.1415E+00
8	1.2999E-02	6.6936E-01	1.4612E-01	9.2227E+00	8.6948E-01	2.1412E+00	1.6251E+00	5.5483E+00
9	1.4578E-02	7.5067E-01	1.3675E-01	9.1656E+00	8.8641E-01	2.2279E+00	1.4700E+00	4.7288E+00
10	1.6148E-02	8.3151E-01	1.2983E-01	9.2708E+00	9.0323E-01	2.3221E+00	1.3430E+00	4.1267E+00
11	1.7707E-02	9.1179E-01	1.2033E-01	8.9660E+00	9.1382E-01	2.3849E+00	1.2127E+00	3.4702E+00
12	1.9318E-02	9.9472E-01	1.0455E-01	8.0457E+00	9.2134E-01	2.4336E+00	1.0320E+00	2.5743E+00
13	2.0920E-02	1.0772E+00	8.0020E-02	6.2809E+00	9.2535E-01	2.4638E+00	7.7923E-01	1.4906E+00
14	2.2453E-02	1.1562E+00	6.5519E-02	5.1569E+00	9.2469E-01	2.4663E+00	6.3662E-01	9.9839E-01
15	2.3968E-02	1.2342E+00	5.1252E-02	3.9305E+00	9.1613E-01	2.4225E+00	5.0636E-01	6.2117E-01
16	2.5494E-02	1.3128E+00	3.8202E-02	2.6692E+00	8.8782E-01	2.2771E+00	3.9916E-01	3.6289E-01
17	2.7021E-02	1.3914E+00	7.0274E-02	4.5681E+00	8.6882E-01	2.1698E+00	7.6552E-01	1.2718E+00
18	2.8550E-02	1.4701E+00	5.7215E-02	3.6482E+00	8.6115E-01	2.1419E+00	6.2994E-01	8.5036E-01
19	3.0070E-02	1.5484E+00	2.2864E-02	1.4524E+00	8.5993E-01	2.1365E+00	2.5222E-01	1.3601E-01
20	3.1610E-02	1.6277E+00	1.0658E-02	6.7914E-01	8.6092E-01	2.1409E+00	1.1739E-01	2.9518E-02
21	3.3140E-02	1.7065E+00	9.9037E-03	6.3196E-01	8.6139E-01	2.1430E+00	1.0900E-01	2.5471E-02
22	3.4670E-02	1.7853E+00	9.5283E-03	6.0801E-01	8.6139E-01	2.1430E+00	1.0487E-01	2.3576E-02
23	3.6210E-02	1.8646E+00	1.0445E-02	6.6653E-01	8.6139E-01	2.1430E+00	1.1496E-01	2.8334E-02
24	3.7670E-02	1.9398E+00	1.0376E-02	6.6207E-01	8.6139E-01	2.1430E+00	1.1419E-01	2.7956E-02

X= 0.1143 UT= 1.6763E+01 RHDW= 4.9339E-01 TW= 2.8366E+02 D= 2.1160E-02

I	Y (M)	Y/D	(RHD U)' RHD U	(RHD U)' RHDW*UT	U UREF	M	U' UT	RHD*U'2 RHDW*UT2
1	2.4300E-03	1.1484E-01	1.9559E-01	6.8337E+00	6.9562E-01	1.4323E+00	2.7007E+00	1.0680E+01
2	3.8150E-03	1.8029E-01	1.9562E-01	7.2743E+00	7.1825E-01	1.5015E+00	2.6709E+00	1.0767E+01
3	5.3330E-03	2.5203E-01	1.9568E-01	7.9186E+00	7.4862E-01	1.5990E+00	2.6186E+00	1.0806E+01
4	6.8640E-03	3.2439E-01	1.8449E-01	8.0041E+00	7.7271E-01	1.6820E+00	2.4176E+00	9.5670E+00
5	8.3600E-03	3.9509E-01	1.8766E-01	8.5893E+00	7.9066E-01	1.7473E+00	2.4139E+00	9.8336E+00
6	9.9330E-03	4.6942E-01	1.8130E-01	9.1314E+00	8.2281E-01	1.8704E+00	2.2446E+00	8.9907E+00
7	1.1410E-02	5.3922E-01	1.7497E-01	9.4698E+00	8.4557E-01	1.9658E+00	2.0959E+00	8.1971E+00
8	1.2934E-02	6.1126E-01	1.6897E-01	9.8034E+00	8.6699E-01	2.0607E+00	1.9556E+00	7.4610E+00
9	1.4533E-02	6.8681E-01	1.5981E-01	9.7742E+00	8.8241E-01	2.1346E+00	1.7981E+00	6.5325E+00
10	1.6150E-02	7.6323E-01	1.4605E-01	9.4288E+00	8.9747E-01	2.2120E+00	1.5934E+00	5.3244E+00
11	1.7742E-02	8.3847E-01	1.3290E-01	9.2187E+00	9.1767E-01	2.3178E+00	1.3902E+00	4.2589E+00
12	1.9264E-02	9.1040E-01	1.1821E-01	8.5966E+00	9.2989E-01	2.3889E+00	1.2006E+00	3.2866E+00
13	2.0800E-02	9.8299E-01	9.6305E-02	7.1774E+00	9.3530E-01	2.4256E+00	9.6251E-01	2.1521E+00
14	2.2325E-02	1.0551E+00	8.0642E-02	6.0478E+00	9.3562E-01	2.4340E+00	8.0225E-01	1.5040E+00
15	2.3850E-02	1.1271E+00	5.3844E-02	4.0610E+00	9.3572E-01	2.4408E+00	5.3356E-01	6.6895E-01
16	2.5370E-02	1.1990E+00	4.1265E-02	3.1217E+00	9.3530E-01	2.4436E+00	4.0806E-01	3.9263E-01
17	2.6920E-02	1.2722E+00	2.9166E-02	2.1960E+00	9.3324E-01	2.4351E+00	2.8922E-01	1.9674E-01
18	2.8450E-02	1.3445E+00	1.5523E-02	1.1725E+00	9.3425E-01	2.4409E+00	1.5356E-01	5.5580E-02
19	2.9900E-02	1.4130E+00	1.3889E-02	1.0424E+00	9.3243E-01	2.4305E+00	1.3799E-01	4.4679E-02

X= 0.1524	UT= 1.7192E+01	RHOW= 4.9584E-01	(RHO U)' RHO U	(RHO U)' RHO*UT	U	M	U'	UT	RHO*U'2 RHO*UT2
					UREF				
1	2.5400E-03	1.1264E-01	1.7416E-01	6.4205E+00	7.0856E-01	1.4976E+00	2.2928E+00	8.1778E+00	
2	3.9880E-03	1.7685E-01	1.6973E-01	6.6752E+00	7.3134E-01	1.5722E+00	2.2004E+00	7.7852E+00	
3	5.4630E-03	2.4226E-01	1.7173E-01	6.9411E+00	7.4008E-01	1.6030E+00	2.2095E+00	7.9721E+00	
4	6.9806E-03	3.0956E-01	1.8235E-01	8.1127E+00	7.7336E-01	1.7196E+00	2.2768E+00	8.9165E+00	
5	8.5078E-03	3.7729E-01	1.8080E-01	8.6076E+00	7.9580E-01	1.8044E+00	2.2010E+00	8.6654E+00	
6	1.0035E-02	4.4501E-01	1.7045E-01	8.6689E+00	8.1702E-01	1.8893E+00	2.0187E+00	7.5850E+00	
7	1.1472E-02	5.0874E-01	1.7390E-01	9.4093E+00	8.3627E-01	1.9721E+00	2.0009E+00	7.7452E+00	
8	1.2991E-02	5.7610E-01	1.6566E-01	9.4980E+00	8.5353E-01	2.0506E+00	1.8519E+00	6.8883E+00	
9	1.4550E-02	6.4523E-01	1.6187E-01	9.9860E+00	8.7517E-01	2.1540E+00	1.7400E+00	6.3814E+00	
10	1.6054E-02	7.1193E-01	1.5492E-01	1.0032E+01	8.9843E-01	2.2238E+00	1.6197E+00	5.7169E+00	
11	1.7580E-02	7.7960E-01	1.4443E-01	9.9093E+00	9.0387E-01	2.3088E+00	1.4588E+00	4.8301E+00	
12	1.9101E-02	8.4705E-01	1.2407E-01	8.9560E+00	9.1713E-01	2.3854E+00	1.2143E+00	3.4702E+00	
13	2.0631E-02	9.1490E-01	1.1454E-01	8.5070E+00	9.2369E-01	2.4286E+00	1.1004E+00	2.9111E+00	
14	2.2161E-02	9.8275E-01	9.2037E-02	6.9626E+00	9.2726E-01	2.4552E+00	8.7371E-01	1.8621E+00	
15	2.3701E-02	1.0510E+00	7.6695E-02	5.8482E+00	9.2807E-01	2.4661E+00	7.2404E-01	1.2878E+00	
16	2.5241E-02	1.1193E+00	5.5944E-02	4.2849E+00	9.2806E-01	2.4715E+00	5.2644E-01	6.8388E-01	
17	2.6771E-02	1.1872E+00	4.4286E-02	3.4047E+00	9.2817E-01	2.4760E+00	4.1569E-01	4.2795E-01	
18	2.8301E-02	1.2550E+00	2.6849E-02	2.0641E+00	9.2817E-01	2.4760E+00	2.5202E-01	1.5730E-01	
19	2.9851E-02	1.3238E+00	1.8474E-02	1.4248E+00	9.2903E-01	2.4809E+00	1.7306E-01	7.4345E-02	
20	3.1341E-02	1.3898E+00	1.2844E-02	9.6980E-01	9.2882E-01	2.4797E+00	1.2038E-01	3.5950E-02	
21	3.2861E-02	1.4573E+00	1.2042E-02	9.2687E-01	9.2849E-01	2.4778E+00	1.1295E-01	3.1621E-02	
22	3.4421E-02	1.5264E+00	1.1495E-02	8.8748E-01	9.2930E-01	2.4825E+00	1.0762E-01	2.8770E-02	
23	3.5931E-02	1.5890E+00	1.2153E-02	9.2947E-01	9.2679E-01	2.4680E+00	1.1444E-01	3.2316E-02	
24	3.7381E-02	1.6577E+00	1.1554E-02	8.7824E-01	9.2515E-01	2.4586E+00	1.0921E-01	2.9302E-02	

X= 0.1778

UT= 1.7273E+01

RHOW= 5.0891E-01

TN= 2.8527E+02

D= 2.2620E-02

I	Y (M)	Y/D	(RHO U) ' RHO U	(RHO U) ' RHOW*UT	U UREF	M	U' UT	RHO*U'2 RHOW*UT2
1	2.5100E-03	1.1076E-01	1.7057E-01	6.3104E+00	7.1441E-01	1.5214E+00	2.2200E+00	7.6668E+00
2	3.8925E-03	1.7213E-01	1.5880E-01	6.3674E+00	7.4281E-01	1.6149E+00	2.0258E+00	6.6548E+00
3	5.3410E-03	2.3612E-01	1.7216E-01	6.9487E+00	7.4405E-01	1.6216E+00	2.1905E+00	7.8191E+00
4	6.7640E-03	2.9903E-01	1.6817E-01	7.2896E+00	7.6841E-01	1.7080E+00	2.0919E+00	7.4155E+00
5	8.1910E-03	3.6211E-01	1.6593E-01	7.7711E+00	7.9431E-01	1.8047E+00	2.0064E+00	7.1302E+00
6	9.6460E-03	4.2644E-01	1.7566E-01	8.2870E+00	7.9562E-01	1.8133E+00	2.1160E+00	7.9756E+00
7	1.1075E-02	4.8961E-01	1.7537E-01	9.0234E+00	8.2368E-01	1.9265E+00	2.0357E+00	7.7768E+00
8	1.2490E-02	5.5217E-01	1.7068E-01	9.4154E+00	8.4490E-01	2.0200E+00	1.9163E+00	7.2023E+00
9	1.3851E-02	6.1233E-01	1.5902E-01	9.3245E+00	8.6298E-01	2.1053E+00	1.7291E+00	6.1028E+00
10	1.5231E-02	6.7334E-01	1.5520E-01	9.5866E+00	8.7781E-01	2.1795E+00	1.6396E+00	5.6830E+00
11	1.6601E-02	7.3391E-01	1.5058E-01	9.7949E+00	8.9218E-01	2.2543E+00	1.5444E+00	5.2243E+00
12	1.7901E-02	7.9138E-01	1.3882E-01	9.3255E+00	9.0039E-01	2.3019E+00	1.3960E+00	4.3679E+00
13	1.9271E-02	8.5195E-01	1.2119E-01	8.4638E+00	9.1019E-01	2.3599E+00	1.1897E+00	3.2623E+00
14	2.0701E-02	9.1516E-01	1.0325E-01	7.5431E+00	9.2158E-01	2.4284E+00	9.8510E-01	2.3110E+00
15	2.2161E-02	9.7771E-01	8.8437E-02	6.5749E+00	9.2501E-01	2.4540E+00	8.3420E-01	1.6802E+00
16	2.3621E-02	1.0443E+00	6.6514E-02	4.9880E+00	9.2600E-01	2.4656E+00	6.2378E-01	9.4662E-01
17	2.5011E-02	1.1057E+00	4.3436E-02	3.2738E+00	9.2617E-01	2.4720E+00	4.0589E-01	4.0275E-01
18	2.6371E-02	1.1658E+00	3.6063E-02	2.7352E+00	9.2699E-01	2.4814E+00	3.3544E-01	2.7656E-01
19	2.7851E-02	1.2313E+00	2.1975E-02	1.6594E+00	9.2573E-01	2.4744E+00	2.0497E-01	1.0295E-01
20	2.9321E-02	1.2962E+00	1.6207E-02	1.2235E+00	9.2566E-01	2.4739E+00	1.5120E-01	5.6006E-02
21	3.0791E-02	1.3612E+00	1.3489E-02	1.0238E+00	9.2704E-01	2.4824E+00	1.2539E-01	3.8672E-02
22	3.2261E-02	1.4262E+00	1.2711E-02	9.6179E-01	9.2629E-01	2.4774E+00	1.1842E-01	3.4412E-02
23	3.3731E-02	1.4912E+00	1.2742E-02	9.6554E-01	9.2665E-01	2.4798E+00	1.1858E-01	3.4544E-02

X=-0.0127 UT= 2.2345E+01 RHDW= 2.7768E-01 TW= 2.8459E+02 D= 2.4200E-02 RHDUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHDU RHDUREF	TAU TAUW	(RHD U)'V' RHDU U
1	2.5400E-03	1.0496E-01	1.6502E+00	7.6129E-01	4.2522E-01	1.1342E+00	-3.8433E-03
2	3.7353E-03	1.5435E-01	1.8055E+00	8.0475E-01	4.4641E-01	1.0092E+00	-3.3981E-03
3	5.1710E-03	2.1368E-01	1.9007E+00	8.2888E-01	4.7179E-01	8.9026E-01	-2.9223E-03
4	6.5900E-03	2.7231E-01	1.9919E+00	8.5027E-01	5.1310E-01	1.0135E+00	-3.1551E-03
5	8.0170E-03	3.3128E-01	2.1022E+00	8.7479E-01	5.4146E-01	8.0065E-01	-2.4562E-03
6	9.4490E-03	3.9045E-01	2.1691E+00	8.8831E-01	5.8518E-01	8.7488E-01	-2.5466E-03
7	1.0874E-02	4.4934E-01	2.2222E+00	8.9837E-01	6.2378E-01	6.7121E-01	-1.8709E-03
8	1.2320E-02	5.0909E-01	2.2815E+00	9.0922E-01	6.5885E-01	9.2222E-01	-2.4911E-03
9	1.3751E-02	5.6822E-01	2.3776E+00	9.2595E-01	6.9702E-01	7.8921E-01	-2.0936E-03
10	1.5166E-02	6.2669E-01	2.4672E+00	9.4103E-01	7.3532E-01	6.1057E-01	-1.5911E-03
11	1.6576E-02	6.8496E-01	2.5325E+00	9.5119E-01	7.7448E-01	5.5515E-01	-1.4106E-03
12	1.8016E-02	7.4446E-01	2.5861E+00	9.5880E-01	8.1472E-01	4.8172E-01	-1.1899E-03
13	1.9466E-02	8.0438E-01	2.6810E+00	9.7216E-01	8.6103E-01	4.2799E-01	-1.0402E-03
14	2.0906E-02	8.6388E-01	2.7547E+00	9.8198E-01	8.9798E-01	4.0525E-01	-9.7365E-04
15	2.2346E-02	9.2339E-01	2.7909E+00	9.8586E-01	9.2611E-01	3.9578E-01	-9.3663E-04
16	2.3796E-02	9.8331E-01	2.8216E+00	9.8905E-01	9.4806E-01	1.7424E-01	-4.0824E-04
17	2.5256E-02	1.0436E+00	2.8338E+00	9.8972E-01	9.6720E-01	1.4794E-01	-3.4176E-04
18	2.6706E-02	1.1036E+00	2.8410E+00	9.9006E-01	9.8286E-01	9.1309E-02	-2.0831E-04
19	2.8146E-02	1.1631E+00	2.8510E+00	9.9130E-01	9.9268E-01	7.6970E-02	-1.7458E-04
20	2.9586E-02	1.2226E+00	2.8510E+00	9.9130E-01	9.9918E-01	3.4069E-02	-7.6769E-05
21	3.1056E-02	1.2833E+00	2.8550E+00	9.9182E-01	1.0032E+00	1.6474E-02	-3.7031E-05
22	3.2496E-02	1.3428E+00	2.8590E+00	9.9235E-01	1.0061E+00	3.7908E-03	-8.5110E-06
23	3.3976E-02	1.4040E+00	2.8590E+00	9.9235E-01	1.0087E+00	-5.1350E-03	1.1499E-05
24	3.5456E-02	1.4651E+00	2.8590E+00	9.9235E-01	1.0125E+00	-6.1284E-03	1.3672E-05
25	3.6886E-02	1.5242E+00	2.8590E+00	9.9235E-01	1.0160E+00	-3.6828E-03	8.1872E-06
26	3.8366E-02	1.5854E+00	2.8590E+00	9.9235E-01	1.0215E+00	-3.1080E-03	6.8723E-06

X= 0.0000

UT= 2.1841E+01

RHOW= 2.9064E-01

TW= 2.8389E+02

D= 2.4210E-02

RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	UREF	RHO	RHOUREF	TAU	TAUM	(RHO U)'V'	RHO U
1	4.5700E-03	1.8877E-01	1.8358E+00	8.1131E-01	4.7109E-01	1.0784E+00	-3.4784E-03				
2	5.8000E-03	2.3957E-01	1.9153E+00	8.3105E-01	4.8185E-01	1.0916E+00	-3.5310E-03				
3	7.1700E-03	2.9616E-01	1.9740E+00	8.4449E-01	5.1235E-01	8.6065E-01	-2.6720E-03				
4	8.5290E-03	3.5229E-01	2.0796E+00	8.6817E-01	5.4887E-01	1.0019E+00	-3.0133E-03				
5	9.8800E-03	4.0810E-01	2.1405E+00	8.8078E-01	5.7077E-01	9.3442E-01	-2.7642E-03				
6	1.1187E-02	4.6208E-01	2.2033E+00	8.9294E-01	6.0424E-01	7.9757E-01	-2.2831E-03				
7	1.2615E-02	5.2107E-01	2.2781E+00	9.0715E-01	6.4923E-01	6.6028E-01	-1.8105E-03				
8	1.4065E-02	5.8096E-01	2.3214E+00	9.1428E-01	6.7814E-01	8.2275E-01	-2.1984E-03				
9	1.5365E-02	6.3466E-01	2.4030E+00	9.2818E-01	7.1572E-01	6.7959E-01	-1.7775E-03				
10	1.6725E-02	6.9083E-01	2.4987E+00	9.4422E-01	7.4285E-01	6.3154E-01	-1.6532E-03				
11	1.8145E-02	7.4948E-01	2.5596E+00	9.5320E-01	7.7934E-01	5.0223E-01	-1.2851E-03				
12	1.9565E-02	8.0814E-01	2.6214E+00	9.6186E-01	8.1557E-01	4.9786E-01	-1.2490E-03				
13	2.0955E-02	8.6555E-01	2.6744E+00	9.6893E-01	8.4771E-01	3.5798E-01	-8.8343E-04				
14	2.2335E-02	9.2255E-01	2.7192E+00	9.7453E-01	8.8372E-01	1.6874E-01	-4.0711E-04				
15	2.3715E-02	9.7955E-01	2.7750E+00	9.8137E-01	9.0260E-01	1.8542E-01	-4.4842E-04				
16	2.5015E-02	1.0333E+00	2.8036E+00	9.8440E-01	9.2659E-01	1.9505E-01	-4.6523E-04				
17	2.6415E-02	1.0911E+00	2.8160E+00	9.8522E-01	9.4244E-01	9.5125E-02	-2.2439E-04				
18	2.7815E-02	1.1489E+00	2.8160E+00	9.8522E-01	9.5306E-01	8.9070E-02	-2.0777E-04				
19	2.9195E-02	1.2059E+00	2.8160E+00	9.8522E-01	9.5582E-01	5.0152E-02	-1.1665E-04				
20	3.0555E-02	1.2621E+00	2.8143E+00	9.8500E-01	9.5816E-01	1.5084E-02	-3.4973E-05				
21	3.1945E-02	1.3195E+00	2.8094E+00	9.8439E-01	9.5845E-01	9.5253E-03	-2.2033E-05				
22	3.3345E-02	1.3773E+00	2.8090E+00	9.8435E-01	9.5986E-01	-6.8930E-03	1.5919E-05				
23	3.4735E-02	1.4347E+00	2.8090E+00	9.8435E-01	9.6074E-01	-1.4255E-03	3.2891E-06				
24	3.6045E-02	1.4888E+00	2.8086E+00	9.8429E-01	9.5986E-01	-1.7614E-03	4.0672E-06				

X= 0. 0127 UT= 1. 9752E+01 RHOV= 3. 2829E-01 TW= 2. 8210E+02 D= 2. 5180E-02 RHOUREF= 4. 6000E+02

I	Y (M)	Y/D	M	U	RHOU	TAU	(RHO U)'V'
				UREF	RHOUREF	TAUM	RHOU U
1	3. 3000E-03	1. 3106E-01	1. 6923E+00	7. 6852E-01	4. 9859E-01	1. 7824E+00	-4. 8404E-03
2	4. 5114E-03	1. 7917E-01	1. 7676E+00	7. 8919E-01	5. 0859E-01	1. 7233E+00	-4. 6849E-03
3	5. 9434E-03	2. 3604E-01	1. 8257E+00	8. 0385E-01	5. 2992E-01	1. 5504E+00	-4. 1187E-03
4	7. 3864E-03	2. 9334E-01	1. 9129E+00	8. 2545E-01	5. 6275E-01	1. 3000E+00	-3. 3441E-03
5	8. 8364E-03	3. 5093E-01	2. 0087E+00	8. 4773E-01	5. 9339E-01	1. 1197E+00	-2. 8219E-03
6	1. 0260E-02	4. 0748E-01	2. 0524E+00	8. 5694E-01	6. 2894E-01	1. 0953E+00	-2. 6465E-03
7	1. 1695E-02	4. 6447E-01	2. 1399E+00	8. 7520E-01	6. 6032E-01	9. 6234E-01	-2. 2870E-03
8	1. 3125E-02	5. 2126E-01	2. 2021E+00	8. 8707E-01	6. 9415E-01	7. 2628E-01	-1. 6817E-03
9	1. 4565E-02	5. 7845E-01	2. 2457E+00	8. 9493E-01	7. 3416E-01	6. 8171E-01	-1. 5184E-03
10	1. 6015E-02	6. 3604E-01	2. 3175E+00	9. 0781E-01	7. 7041E-01	6. 2237E-01	-1. 3588E-03
11	1. 7445E-02	6. 9283E-01	2. 3952E+00	9. 2105E-01	8. 0513E-01	4. 1981E-01	-9. 0462E-04
12	1. 8805E-02	7. 4684E-01	2. 4605E+00	9. 3171E-01	8. 3337E-01	3. 7824E-01	-8. 0840E-04
13	2. 0215E-02	8. 0284E-01	2. 5031E+00	9. 3781E-01	8. 6684E-01	2. 3527E-01	-4. 9213E-04
14	2. 1675E-02	8. 6082E-01	2. 5492E+00	9. 4431E-01	8. 9455E-01	1. 8144E-01	-3. 7495E-04
15	2. 3125E-02	9. 1840E-01	2. 5807E+00	9. 4832E-01	9. 1579E-01	-4. 7220E-02	9. 6619E-05
16	2. 4585E-02	9. 7639E-01	2. 6021E+00	9. 5066E-01	9. 3357E-01	5. 1223E-02	-1. 0381E-04
17	2. 6025E-02	1. 0336E+00	2. 6228E+00	9. 5297E-01	9. 4626E-01	-1. 9422E-03	3. 9189E-06
18	2. 7425E-02	1. 0892E+00	2. 6340E+00	9. 5456E-01	9. 6084E-01	-1. 6796E-02	3. 3531E-05
19	2. 8815E-02	1. 1444E+00	2. 6416E+00	9. 5569E-01	9. 6943E-01	-2. 2046E-02	4. 3753E-05
20	3. 0265E-02	1. 2020E+00	2. 6460E+00	9. 5635E-01	9. 6804E-01	-1. 2383E-02	2. 4654E-05
21	3. 1635E-02	1. 2564E+00	2. 6460E+00	9. 5635E-01	9. 6546E-01	-2. 4493E-03	4. 8897E-06
22	3. 3025E-02	1. 3116E+00	2. 6460E+00	9. 5635E-01	9. 6446E-01	-6. 3725E-03	1. 2735E-05
23	3. 4425E-02	1. 3672E+00	2. 6444E+00	9. 5611E-01	9. 6263E-01	-1. 7796E-03	3. 5608E-06

X= 0.0254 UT= 1.5915E+01 RHOV= 3.8056E-01 TW= 2.8333E+02 D= 2.5880E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U UREF	RHOV RHOUREF	TAU TAUW	(RHO U)' RHOV U
1	2.5600E-03	9.8918E-02	1.4775E+00	6.9926E-01	5.0391E-01	2.6217E+00	-5.0871E-03
2	3.7859E-03	1.4629E-01	1.6029E+00	7.3824E-01	5.1293E-01	2.3814E+00	-4.6544E-03
3	5.2118E-03	2.0138E-01	1.7088E+00	7.6874E-01	5.4135E-01	2.8975E+00	-5.5074E-03
4	6.4200E-03	2.4807E-01	1.7878E+00	7.8980E-01	5.7385E-01	2.6564E+00	-4.8745E-03
5	7.8410E-03	3.0298E-01	1.8503E+00	8.0554E-01	6.0094E-01	2.8106E+00	-5.0212E-03
6	9.1340E-03	3.5294E-01	1.8953E+00	8.1611E-01	6.3198E-01	2.4565E+00	-4.2362E-03
7	1.0501E-02	4.0576E-01	1.9343E+00	8.2506E-01	6.5134E-01	2.1209E+00	-3.5965E-03
8	1.1930E-02	4.6097E-01	1.9988E+00	8.3939E-01	6.7718E-01	1.6836E+00	-2.8088E-03
9	1.3368E-02	5.1654E-01	2.0470E+00	8.4952E-01	6.9946E-01	1.2754E+00	-2.0967E-03
10	1.4807E-02	5.7214E-01	2.1011E+00	8.6054E-01	7.2315E-01	1.1619E+00	-1.8849E-03
11	1.6247E-02	6.2778E-01	2.1596E+00	8.7215E-01	7.5483E-01	9.1182E-01	-1.4487E-03
12	1.7617E-02	6.8072E-01	2.2022E+00	8.8004E-01	7.8383E-01	8.4508E-01	-1.3146E-03
13	1.8977E-02	7.3327E-01	2.2433E+00	8.8736E-01	8.1637E-01	7.3569E-01	-1.1169E-03
14	2.0397E-02	7.8814E-01	2.2865E+00	8.9479E-01	8.4432E-01	6.0652E-01	-9.0582E-04
15	2.1677E-02	8.3760E-01	2.3257E+00	9.0125E-01	8.6461E-01	4.3010E-01	-6.3735E-04
16	2.3087E-02	8.9208E-01	2.3587E+00	9.0642E-01	8.8955E-01	3.9783E-01	-5.8088E-04
17	2.4457E-02	9.4502E-01	2.3845E+00	9.1019E-01	9.0520E-01	3.5234E-01	-5.1109E-04
18	2.5777E-02	9.9602E-01	2.4035E+00	9.1268E-01	9.1747E-01	1.4824E-01	-2.1393E-04
19	2.7137E-02	1.0486E+00	2.4050E+00	9.1276E-01	9.2650E-01	1.5271E-01	-2.1840E-04
20	2.8527E-02	1.1023E+00	2.4050E+00	9.1270E-01	9.3113E-01	5.9006E-02	-8.3975E-05
21	2.9917E-02	1.1560E+00	2.4054E+00	9.1278E-01	9.3636E-01	2.8357E-02	-4.0138E-05
22	3.1307E-02	1.2097E+00	2.4105E+00	9.1379E-01	9.4401E-01	2.1626E-03	-3.0418E-06
23	3.2667E-02	1.2622E+00	2.4160E+00	9.1469E-01	9.5152E-01	-5.0737E-03	7.0957E-06
24	3.4057E-02	1.3160E+00	2.4181E+00	9.1502E-01	9.5268E-01	-2.7053E-03	3.7821E-06
25	3.5467E-02	1.3704E+00	2.4120E+00	9.1409E-01	9.5093E-01	-6.5523E-03	9.1542E-06

X= 0.0508 UT= 1.4236E+01 RHDW= 4.4955E-01 TW= 2.8190E+02 D= 2.2200E-02 RHDUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHDU	TAU	(RMD U)'V'
				UREF	RHDUREF	TAUM	RHDU U
1	1.4200E-03	6.3964E-02	1.2938E+00	6.3176E-01	5.2120E-01	2.1772E+00	-3.8087E-03
2	2.6610E-03	1.1986E-01	1.4326E+00	6.8011E-01	5.2576E-01	1.8054E+00	-3.1719E-03
3	4.0343E-03	1.8173E-01	1.5634E+00	7.2143E-01	5.6564E-01	2.9437E+00	-4.9219E-03
4	5.3830E-03	2.4248E-01	1.6624E+00	7.5030E-01	6.1193E-01	3.7868E+00	-5.9911E-03
5	6.6580E-03	2.9991E-01	1.7636E+00	7.7827E-01	6.5375E-01	4.2742E+00	-6.5038E-03
6	7.8720E-03	3.5459E-01	1.8487E+00	7.9995E-01	7.0912E-01	4.7296E+00	-6.8090E-03
7	9.2420E-03	4.1631E-01	1.9542E+00	8.2521E-01	7.6843E-01	4.0913E+00	-5.6262E-03
8	1.0592E-02	4.7712E-01	2.0283E+00	8.4190E-01	8.1889E-01	4.0394E+00	-5.3479E-03
9	1.1953E-02	5.3842E-01	2.1190E+00	8.6098E-01	8.8089E-01	3.9617E+00	-5.0390E-03
10	1.3318E-02	5.9991E-01	2.1723E+00	8.7126E-01	9.1869E-01	3.3275E+00	-4.1415E-03
11	1.4673E-02	6.6095E-01	2.2227E+00	8.8071E-01	9.4952E-01	2.6265E+00	-3.2249E-03
12	1.5983E-02	7.1995E-01	2.2321E+00	8.8177E-01	9.5290E-01	2.1940E+00	-2.6962E-03
13	1.7353E-02	7.8167E-01	2.2425E+00	8.8278E-01	9.5137E-01	1.1047E+00	-1.3666E-03
14	1.8633E-02	8.3932E-01	2.2432E+00	8.8194E-01	9.2556E-01	5.8891E-01	-7.4989E-04
15	1.9973E-02	8.9968E-01	2.2132E+00	8.7514E-01	9.0181E-01	4.6201E-01	-5.9767E-04
16	2.1253E-02	9.5734E-01	2.2142E+00	8.7454E-01	9.0597E-01	3.4986E-01	-4.5110E-04
17	2.2573E-02	1.0168E+00	2.2223E+00	8.7534E-01	9.0975E-01	1.7383E-01	-2.2408E-04
18	2.3813E-02	1.0727E+00	2.2268E+00	8.7545E-01	9.1930E-01	7.0051E-02	-8.9592E-05
19	2.5183E-02	1.1344E+00	2.2280E+00	8.7483E-01	9.2111E-01	8.5540E-02	-1.0934E-04
20	2.6473E-02	1.1925E+00	2.2280E+00	8.7426E-01	9.2588E-01	5.0171E-02	-6.3842E-05
21	2.7873E-02	1.2555E+00	2.2280E+00	8.7426E-01	9.3044E-01	1.5301E-02	-1.9375E-05
22	2.9123E-02	1.3118E+00	2.2280E+00	8.7426E-01	9.3333E-01	1.0154E-02	-1.2818E-05
23	3.0423E-02	1.3704E+00	2.2295E+00	8.7455E-01	9.3420E-01	-9.7132E-04	1.2256E-06
24	3.1713E-02	1.4285E+00	2.2340E+00	8.7545E-01	9.3451E-01	-1.3746E-02	1.7368E-05
25	3.2943E-02	1.4839E+00	2.2316E+00	8.7498E-01	9.3536E-01	-1.7273E-02	2.1786E-05

X= 0.0762 UT= 1.6566E+01 RHOV= 4.7632E-01 TW= 2.8214E+02 D= 1.9420E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U UREF	RHO RHOUREF	TAU TAUW	(RHO U)' V' RHO U
1	1.7800E-03	9.1658E-02	1.3605E+00	6.5910E-01	5.5620E-01	1.2150E+00	-2.8553E-03
2	3.1987E-03	1.6471E-01	1.4969E+00	7.0452E-01	5.8309E-01	1.1214E+00	-2.5622E-03
3	4.6388E-03	2.3887E-01	1.5876E+00	7.3216E-01	6.2096E-01	1.9262E+00	-4.2115E-03
4	6.0530E-03	3.1169E-01	1.6898E+00	7.6181E-01	6.7693E-01	2.7567E+00	-5.6684E-03
5	7.4770E-03	3.8502E-01	1.7708E+00	7.8366E-01	7.2880E-01	3.4233E+00	-6.6886E-03
6	8.9040E-03	4.5850E-01	1.9000E+00	8.1641E-01	7.8766E-01	3.5473E+00	-6.6737E-03
7	1.0336E-02	5.3223E-01	1.9676E+00	8.3194E-01	8.6485E-01	3.5834E+00	-6.2827E-03
8	1.1784E-02	6.0680E-01	2.0911E+00	8.5944E-01	9.3563E-01	3.2817E+00	-5.5535E-03
9	1.3216E-02	6.8054E-01	2.1531E+00	8.7181E-01	9.9005E-01	2.9016E+00	-4.7496E-03
10	1.4640E-02	7.5386E-01	2.2316E+00	8.8703E-01	1.0615E+00	2.5084E+00	-3.9453E-03
11	1.6040E-02	8.2595E-01	2.3156E+00	9.0207E-01	1.1243E+00	2.1590E+00	-3.3137E-03
12	1.7500E-02	9.0113E-01	2.3777E+00	9.1264E-01	1.1895E+00	1.7997E+00	-2.6763E-03
13	1.8940E-02	9.7528E-01	2.4239E+00	9.1995E-01	1.2287E+00	1.3011E+00	-1.9089E-03
14	2.0390E-02	1.0499E+00	2.4612E+00	9.2528E-01	1.2559E+00	6.5868E-01	-9.6040E-04
15	2.1830E-02	1.1241E+00	2.4671E+00	9.2526E-01	1.2604E+00	2.6698E-01	-3.8920E-04
16	2.3290E-02	1.1993E+00	2.4421E+00	9.1996E-01	1.1813E+00	-1.1763E+00	1.8139E-03
17	2.4740E-02	1.2739E+00	2.3645E+00	9.0484E-01	1.0499E+00	-7.2513E-01	1.2228E-03
18	2.6190E-02	1.3486E+00	2.1964E+00	8.7212E-01	9.7110E-01	3.8776E-02	-6.6398E-05
19	2.7630E-02	1.4228E+00	2.1565E+00	8.6413E-01	9.4080E-01	1.0582E-02	-1.8429E-05
20	2.9090E-02	1.4979E+00	2.1400E+00	8.6072E-01	9.3573E-01	-1.8938E-03	3.2960E-06
21	3.0540E-02	1.5726E+00	2.1372E+00	8.6009E-01	9.3543E-01	-7.4272E-03	1.2918E-05

X= 0.1143 UT= 1.6669E+01 RMDW= 4.9896E-01 TW= 2.8049E+02 D= 2.1160E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHDU	TAU	(RMD U)'V'
				UREF	RHOUREF	TAUW	RHDU U
1	1.4200E-03	6.7108E-02	1.3541E+00	6.6868E-01	5.8065E-01	1.8793E+00	-4.4050E-03
2	2.7010E-03	1.2765E-01	1.4498E+00	7.0139E-01	5.9098E-01	1.4602E+00	-3.4044E-03
3	4.0740E-03	1.9253E-01	1.5287E+00	7.2689E-01	6.1325E-01	2.0882E+00	-4.7581E-03
4	5.3660E-03	2.5359E-01	1.5995E+00	7.4874E-01	6.4918E-01	3.0862E+00	-6.7447E-03
5	6.7360E-03	3.1834E-01	1.6709E+00	7.6951E-01	6.9466E-01	3.0168E+00	-6.2718E-03
6	8.1060E-03	3.8308E-01	1.7220E+00	7.8371E-01	7.4792E-01	3.3804E+00	-6.6191E-03
7	9.4560E-03	4.4688E-01	1.8463E+00	8.1687E-01	7.9718E-01	3.7352E+00	-7.1174E-03
8	1.0806E-02	5.1068E-01	1.9216E+00	8.3506E-01	8.5986E-01	3.5752E+00	-6.4753E-03
9	1.2156E-02	5.7448E-01	2.0176E+00	8.5769E-01	9.1160E-01	3.4350E+00	-6.0623E-03
10	1.3396E-02	6.3308E-01	2.0862E+00	8.7251E-01	9.8427E-01	3.0866E+00	-5.1719E-03
11	1.4776E-02	6.9830E-01	2.1433E+00	8.8411E-01	1.0402E+00	2.9885E+00	-4.8409E-03
12	1.6156E-02	7.6352E-01	2.2124E+00	8.9755E-01	1.1102E+00	2.7575E+00	-4.2971E-03
13	1.7526E-02	8.2826E-01	2.3077E+00	9.1594E-01	1.1761E+00	2.1139E+00	-3.2248E-03
14	1.8926E-02	8.9442E-01	2.3731E+00	9.2718E-01	1.2265E+00	1.4354E+00	-2.1554E-03
15	2.0156E-02	9.5255E-01	2.4107E+00	9.3312E-01	1.2630E+00	8.7896E-01	-1.3017E-03
16	2.1466E-02	1.0145E+00	2.4340E+00	9.3629E-01	1.2873E+00	6.5726E-01	-9.6470E-04
17	2.2826E-02	1.0787E+00	2.4340E+00	9.3523E-01	1.3093E+00	2.5825E-01	-3.7312E-04
18	2.4146E-02	1.1411E+00	2.4431E+00	9.3592E-01	1.3192E+00	1.1403E-01	-1.6424E-04
19	2.5546E-02	1.2073E+00	2.4422E+00	9.3498E-01	1.3193E+00	5.3811E-02	-7.7543E-05
20	2.6926E-02	1.2725E+00	2.4352E+00	9.3324E-01	1.3187E+00	1.7920E-02	-2.5777E-05
21	2.8316E-02	1.3382E+00	2.4404E+00	9.3416E-01	1.3132E+00	-1.6506E-03	2.3892E-06
22	2.9706E-02	1.4039E+00	2.4319E+00	9.3268E-01	1.3093E+00	-1.0291E-02	1.4889E-05

X= 0.1524 UT= 1.7055E+01 RHO= 5.0386E-01 TW= 2.8191E+02 D= 2.2550E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHO	TAU	(RHO U)'V'
				UREF	RHOUREF	TAUW	RHOV U
1	2.0300E-03	9.0022E-02	1.4888E+00	7.0589E-01	5.8891E-01	1.4025E+00	-3.5326E-03
2	3.3870E-03	1.5020E-01	1.5545E+00	7.2607E-01	6.0376E-01	1.5685E+00	-3.9052E-03
3	4.7970E-03	2.1273E-01	1.5748E+00	7.3179E-01	6.3852E-01	1.8802E+00	-4.4487E-03
4	6.2570E-03	2.7747E-01	1.6584E+00	7.5606E-01	6.6482E-01	2.2945E+00	-5.3207E-03
5	7.6270E-03	3.3823E-01	1.7580E+00	7.8374E-01	7.0628E-01	2.4775E+00	-5.5549E-03
6	9.0070E-03	3.9942E-01	1.8330E+00	8.0307E-01	7.5112E-01	3.0389E+00	-6.5538E-03
7	1.0447E-02	4.6328E-01	1.9014E+00	8.1978E-01	8.0767E-01	3.3212E+00	-6.8099E-03
8	1.1917E-02	5.2847E-01	1.9986E+00	8.4232E-01	8.6526E-01	2.9980E+00	-5.9305E-03
9	1.3217E-02	5.8612E-01	2.0656E+00	8.5667E-01	9.1395E-01	3.0795E+00	-5.9085E-03
10	1.4597E-02	6.4732E-01	2.1571E+00	8.7582E-01	9.7615E-01	2.7858E+00	-5.1746E-03
11	1.6027E-02	7.1073E-01	2.2225E+00	8.8820E-01	1.0434E+00	2.3207E+00	-4.1360E-03
12	1.7417E-02	7.7237E-01	2.2987E+00	9.0207E-01	1.1210E+00	1.7651E+00	-3.0162E-03
13	1.8727E-02	8.3047E-01	2.3745E+00	9.1548E-01	1.1691E+00	1.4671E+00	-2.4766E-03
14	2.0107E-02	8.9166E-01	2.4145E+00	9.2157E-01	1.2174E+00	1.2749E+00	-2.1013E-03
15	2.1487E-02	9.5286E-01	2.4435E+00	9.2569E-01	1.2635E+00	8.3600E-01	-1.3441E-03
16	2.2887E-02	1.0149E+00	2.4632E+00	9.2814E-01	1.2964E+00	3.2756E-01	-5.1776E-04
17	2.4247E-02	1.0753E+00	2.4681E+00	9.2802E-01	1.3204E+00	2.3019E-01	-3.5829E-04
18	2.5717E-02	1.1404E+00	2.4732E+00	9.2810E-01	1.3310E+00	1.0367E-01	-1.6054E-04
19	2.7207E-02	1.2063E+00	2.4760E+00	9.2817E-01	1.3380E+00	3.5594E-02	-5.4914E-05
20	2.8507E-02	1.2642E+00	2.4763E+00	9.2822E-01	1.3409E+00	7.6825E-03	-1.1828E-05
21	2.9987E-02	1.3298E+00	2.4814E+00	9.2911E-01	1.3429E+00	2.6535E-03	-4.0873E-06
22	3.1457E-02	1.3950E+00	2.4793E+00	9.2874E-01	1.3454E+00	3.7580E-03	-5.7734E-06

X= 0.1778 UT= 1.7087E+01 RHO= 5.2009E-01 TM= 2.7914E+02 D= 2.2620E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHO	RHOUREF	TAU	(RHO U)'V'
				UREF			TAU	RHO U
1	1.4200E-03	6.2776E-02	1.4271E+00	6.8369E-01	6.1011E-01	1.3043E+00	-3.2626E-03	
2	2.8500E-03	1.2599E-01	1.5210E+00	7.1409E-01	6.2838E-01	9.8831E-01	-2.4384E-03	
3	4.2400E-03	1.8744E-01	1.6180E+00	7.4361E-01	6.6013E-01	1.7724E+00	-4.2502E-03	
4	5.6100E-03	2.4801E-01	1.6284E+00	7.4595E-01	6.9916E-01	1.8767E+00	-4.2636E-03	
5	7.0000E-03	3.0946E-01	1.7262E+00	7.7346E-01	7.2782E-01	2.4978E+00	-5.5924E-03	
6	8.2900E-03	3.6649E-01	1.8093E+00	7.9545E-01	7.7254E-01	2.5899E+00	-5.5967E-03	
7	9.6800E-03	4.2794E-01	1.8125E+00	7.9540E-01	8.2394E-01	3.0100E+00	-6.1113E-03	
8	1.0930E-02	4.8320E-01	1.9255E+00	8.2353E-01	8.7159E-01	2.9991E+00	-5.9654E-03	
9	1.2300E-02	5.4377E-01	1.9983E+00	8.3989E-01	9.2655E-01	3.2238E+00	-6.1869E-03	
10	1.3670E-02	6.0433E-01	2.0956E+00	8.6101E-01	9.8286E-01	2.8532E+00	-5.3443E-03	
11	1.5060E-02	6.6578E-01	2.1701E+00	8.7602E-01	1.0443E+00	2.9386E+00	-5.3264E-03	
12	1.6450E-02	7.2723E-01	2.2461E+00	8.9060E-01	1.1067E+00	2.4771E+00	-4.3612E-03	
13	1.7770E-02	7.8559E-01	2.2972E+00	8.9958E-01	1.1768E+00	2.5322E+00	-4.2784E-03	
14	1.9150E-02	8.4660E-01	2.3539E+00	9.0919E-01	1.2316E+00	1.8674E+00	-3.0843E-03	
15	2.0460E-02	9.0451E-01	2.4190E+00	9.2006E-01	1.2675E+00	2.0085E+00	-3.3083E-03	
16	2.1850E-02	9.6596E-01	2.4485E+00	9.2428E-01	1.2827E+00	2.3039E+00	-3.7970E-03	
17	2.3170E-02	1.0243E+00	2.4640E+00	9.2604E-01	1.3040E+00	2.9375E+00	-4.7954E-03	
18	2.4580E-02	1.0866E+00	2.4690E+00	9.2591E-01	1.3122E+00	3.0873E+00	-5.0239E-03	
19	2.6000E-02	1.1494E+00	2.4788E+00	9.2676E-01	1.3188E+00	3.1822E+00	-5.1765E-03	
20	2.7380E-02	1.2104E+00	2.4776E+00	9.2626E-01	1.3227E+00	3.2614E+00	-5.2891E-03	
21	2.8870E-02	1.2763E+00	2.4707E+00	9.2515E-01	1.3233E+00	3.2944E+00	-5.3256E-03	

MODEL II

Normal and inclined wire turbulence data

X=-0.0127 UT= 2.2604E+01 RHO= 2.8707E-01 TW= 2.8137E+02 D= 2.4080E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHO*UT	U UREF	M	U' UT	RHO*U' ² RHO*UT ²
1	2.9400E-03	1.2209E-01	1.5357E-01	5.1616E+00	8.1089E-01	1.7748E+00	1.4765E+00	3.5520E+00
2	3.9741E-03	1.6504E-01	1.4647E-01	5.2001E+00	8.2937E-01	1.8451E+00	1.3774E+00	3.1927E+00
3	5.1656E-03	2.1452E-01	1.3803E-01	5.2125E+00	8.4976E-01	1.9262E+00	1.2635E+00	2.7889E+00
4	6.3616E-03	2.6418E-01	1.3685E-01	5.4715E+00	8.6775E-01	2.0026E+00	1.2191E+00	2.6920E+00
5	7.5385E-03	3.1306E-01	1.4198E-01	5.9722E+00	8.8360E-01	2.0731E+00	1.2324E+00	2.8422E+00
6	8.7256E-03	3.6236E-01	1.3761E-01	6.0689E+00	8.9770E-01	2.1393E+00	1.1646E+00	2.6195E+00
7	9.9226E-03	4.1207E-01	1.4052E-01	6.4263E+00	9.0802E-01	2.1911E+00	1.1651E+00	2.6879E+00
8	1.1128E-02	4.6211E-01	1.3955E-01	6.7782E+00	9.2523E-01	2.2791E+00	1.1173E+00	2.5763E+00
9	1.2319E-02	5.1157E-01	1.4058E-01	7.0676E+00	9.3447E-01	2.3308E+00	1.1018E+00	2.5673E+00
10	1.3517E-02	5.6132E-01	1.4050E-01	7.3858E+00	9.4603E-01	2.3982E+00	1.0707E+00	2.5040E+00
11	1.4717E-02	6.1115E-01	1.3336E-01	7.3127E+00	9.5710E-01	2.4635E+00	9.8905E-01	2.2032E+00
12	1.5907E-02	6.6057E-01	1.3826E-01	7.7570E+00	9.6238E-01	2.4988E+00	1.0099E+00	2.3371E+00
13	1.7117E-02	7.1082E-01	1.3269E-01	7.7150E+00	9.7084E-01	2.5550E+00	9.4613E-01	2.1075E+00
14	1.8327E-02	7.6107E-01	1.2819E-01	7.7702E+00	9.8090E-01	2.6220E+00	8.8839E-01	1.9173E+00
15	1.9517E-02	8.1049E-01	1.2074E-01	7.5733E+00	9.8846E-01	2.6776E+00	8.1687E-01	1.6645E+00
16	2.0717E-02	8.6032E-01	1.1132E-01	7.2335E+00	9.9625E-01	2.7360E+00	7.3443E-01	1.3830E+00
17	2.1897E-02	9.0933E-01	1.0516E-01	7.0841E+00	1.0041E+00	2.7965E+00	6.7599E-01	1.2051E+00
18	2.3087E-02	9.5874E-01	9.5970E-02	6.5688E+00	1.0068E+00	2.8227E+00	6.0965E-01	9.9325E-01
19	2.4307E-02	1.0094E+00	8.3789E-02	5.7960E+00	1.0082E+00	2.8395E+00	5.2801E-01	7.5200E-01
20	2.5447E-02	1.0568E+00	7.5182E-02	5.2420E+00	1.0090E+00	2.8523E+00	4.7082E-01	6.0218E-01
21	2.6587E-02	1.1041E+00	6.1096E-02	4.2773E+00	1.0094E+00	2.8590E+00	3.8136E-01	3.9655E-01
22	2.7717E-02	1.1510E+00	4.1421E-02	2.8999E+00	1.0094E+00	2.8590E+00	2.5855E-01	1.8227E-01
23	2.8857E-02	1.1984E+00	3.0559E-02	2.1394E+00	1.0094E+00	2.8590E+00	1.9075E-01	9.9207E-02
24	3.0017E-02	1.2465E+00	2.6811E-02	1.8774E+00	1.0094E+00	2.8593E+00	1.6734E-01	7.6358E-02
25	3.1167E-02	1.2943E+00	2.2492E-02	1.5788E+00	1.0101E+00	2.8635E+00	1.4015E-01	5.3656E-02
26	3.2307E-02	1.3416E+00	1.9127E-02	1.3457E+00	1.0106E+00	2.8676E+00	1.1898E-01	3.8740E-02
27	3.3427E-02	1.3881E+00	1.6971E-02	1.1967E+00	1.0111E+00	2.8716E+00	1.0538E-01	3.0448E-02

X= 0. 0000 UT= 2. 1930E+01 RHO= 2. 9449E-01 TW= 2. 7898E+02 D= 2. 4110E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHO*UT	U UREF	M	U' UT	RHO*U' RHO*UT2
1	3. 1200E-03	1. 2941E-01	1. 5202E-01	5. 1380E+00	8. 0678E-01	1. 7496E+00	1. 5230E+00	3. 7061E+00
2	4. 3838E-03	1. 8182E-01	1. 4918E-01	5. 4826E+00	8. 3556E-01	1. 8566E+00	1. 4462E+00	3. 5085E+00
3	5. 8128E-03	2. 4110E-01	1. 3848E-01	5. 3590E+00	8. 5233E-01	1. 9239E+00	1. 3123E+00	2. 9822E+00
4	7. 2248E-03	2. 9966E-01	1. 4387E-01	5. 9599E+00	8. 7409E-01	2. 0156E+00	1. 3199E+00	3. 1488E+00
5	8. 6518E-03	3. 5885E-01	1. 4086E-01	6. 1698E+00	8. 9105E-01	2. 0929E+00	1. 2553E+00	2. 9544E+00
6	1. 0090E-02	4. 1849E-01	1. 3987E-01	6. 5008E+00	9. 0867E-01	2. 1772E+00	1. 2065E+00	2. 8397E+00
7	1. 1521E-02	4. 7784E-01	1. 4056E-01	6. 8648E+00	9. 2279E-01	2. 2491E+00	1. 1782E+00	2. 8020E+00
8	1. 2950E-02	5. 3711E-01	1. 3888E-01	7. 1016E+00	9. 3512E-01	2. 3163E+00	1. 1326E+00	2. 6751E+00
9	1. 4390E-02	5. 9684E-01	1. 3537E-01	7. 2969E+00	9. 4934E-01	2. 3958E+00	1. 0685E+00	2. 4724E+00
10	1. 5830E-02	6. 5657E-01	1. 3737E-01	7. 7454E+00	9. 6064E-01	2. 4651E+00	1. 0530E+00	2. 4820E+00
11	1. 7270E-02	7. 1629E-01	1. 2842E-01	7. 5537E+00	9. 7096E-01	2. 5314E+00	9. 5699E-01	2. 1160E+00
12	1. 8650E-02	7. 7353E-01	1. 2688E-01	7. 7505E+00	9. 7988E-01	2. 5915E+00	9. 2147E-01	2. 0189E+00
13	2. 0080E-02	8. 3284E-01	1. 1435E-01	7. 2390E+00	9. 8796E-01	2. 6490E+00	8. 1009E-01	1. 6039E+00
14	2. 1510E-02	8. 9215E-01	1. 0678E-01	6. 9982E+00	9. 9541E-01	2. 7054E+00	7. 3813E-01	1. 3681E+00
15	2. 2860E-02	9. 4815E-01	9. 5486E-02	6. 4347E+00	1. 0012E+00	2. 7515E+00	6. 4685E-01	1. 0742E+00
16	2. 4250E-02	1. 0058E+00	8. 2376E-02	5. 6764E+00	1. 0054E+00	2. 7885E+00	5. 4889E-01	7. 8758E-01
17	2. 5630E-02	1. 0630E+00	6. 6769E-02	4. 6196E+00	1. 0051E+00	2. 7936E+00	4. 4353E-01	5. 1647E-01
18	2. 7020E-02	1. 1207E+00	5. 4646E-02	3. 8091E+00	1. 0066E+00	2. 8057E+00	3. 6107E-01	3. 4435E-01
19	2. 8390E-02	1. 1775E+00	3. 7797E-02	2. 6460E+00	1. 0076E+00	2. 8131E+00	2. 4898E-01	1. 6427E-01
20	2. 9720E-02	1. 2327E+00	2. 7899E-02	1. 9420E+00	1. 0061E+00	2. 8036E+00	1. 8449E-01	8. 9809E-02
21	3. 1110E-02	1. 2903E+00	2. 1343E-02	1. 4842E+00	1. 0059E+00	2. 8020E+00	1. 4123E-01	5. 2587E-02
22	3. 2490E-02	1. 3476E+00	1. 7537E-02	1. 2196E+00	1. 0059E+00	2. 8020E+00	1. 1604E-01	3. 5506E-02
23	3. 3860E-02	1. 4044E+00	1. 5513E-02	1. 0788E+00	1. 0059E+00	2. 8020E+00	1. 0265E-01	2. 7782E-02

X= 0.0127 UT= 2.1901E+01 RHDW= 2.9501E-01 TW= 2.8205E+02 D= 2.5040E-02

I	Y (M)	Y/D	(RHD U)' RHD U	(RHD U)' RHDW*UT	U UREF	M	U' UT	RHD*U'2 RHDW*UT2
1	3.4000E-03	1.3578E-01	1.5298E-01	5.1704E+00	8.0969E-01	1.7431E+00	1.5467E+00	3.8031E+00
2	4.6604E-03	1.8612E-01	1.4663E-01	5.3367E+00	8.3529E-01	1.8372E+00	1.4405E+00	3.4440E+00
3	6.1144E-03	2.4419E-01	1.4497E-01	5.6740E+00	8.5939E-01	1.9326E+00	1.3799E+00	3.3020E+00
4	7.5344E-03	3.0089E-01	1.4201E-01	5.9296E+00	8.8015E-01	2.0199E+00	1.3101E+00	3.1011E+00
5	8.9544E-03	3.5760E-01	1.4272E-01	6.1759E+00	8.9076E-01	2.0685E+00	1.2926E+00	3.0916E+00
6	1.0396E-02	4.1519E-01	1.3724E-01	6.3607E+00	9.1156E-01	2.1661E+00	1.1973E+00	2.7763E+00
7	1.1829E-02	4.7242E-01	1.4136E-01	6.8511E+00	9.2416E-01	2.2300E+00	1.2023E+00	2.8872E+00
8	1.3266E-02	5.2991E-01	1.3762E-01	7.0336E+00	9.3903E-01	2.3086E+00	1.1338E+00	2.6648E+00
9	1.4716E-02	5.8772E-01	1.3746E-01	7.2278E+00	9.4605E-01	2.3507E+00	1.1123E+00	2.6193E+00
10	1.6146E-02	6.4482E-01	1.3282E-01	7.3657E+00	9.6028E-01	2.4317E+00	1.0394E+00	2.3764E+00
11	1.7596E-02	7.0273E-01	1.3224E-01	7.7374E+00	9.7378E-01	2.5152E+00	9.9910E-01	2.2844E+00
12	1.9046E-02	7.6064E-01	1.2189E-01	7.4013E+00	9.8264E-01	2.5740E+00	8.9798E-01	1.8978E+00
13	2.0476E-02	8.1775E-01	1.1764E-01	7.3408E+00	9.8852E-01	2.6176E+00	8.5015E-01	1.7378E+00
14	2.1896E-02	8.7446E-01	1.0394E-01	6.7809E+00	9.9870E-01	2.6901E+00	7.2814E-01	1.3191E+00
15	2.3326E-02	9.3157E-01	9.1633E-02	6.0918E+00	1.0022E+00	2.7201E+00	6.3333E-01	1.0134E+00
16	2.4786E-02	9.8987E-01	7.8635E-02	5.3066E+00	1.0046E+00	2.7435E+00	5.3765E-01	7.3960E-01
17	2.6256E-02	1.0486E+00	5.9048E-02	4.0452E+00	1.0072E+00	2.7676E+00	3.9933E-01	4.1313E-01
18	2.7706E-02	1.1065E+00	4.7012E-02	3.2408E+00	1.0088E+00	2.7790E+00	3.1640E-01	2.6058E-01
19	2.9156E-02	1.1644E+00	3.4850E-02	2.4051E+00	1.0090E+00	2.7810E+00	2.3436E-01	1.4307E-01
20	3.0636E-02	1.2235E+00	2.5902E-02	1.7903E+00	1.0094E+00	2.7836E+00	1.7400E-01	7.8958E-02
21	3.2016E-02	1.2786E+00	1.8519E-02	1.2826E+00	1.0099E+00	2.7870E+00	1.2423E-01	4.0309E-02
22	3.3386E-02	1.3333E+00	1.8318E-02	1.2614E+00	1.0085E+00	2.7771E+00	1.2338E-01	3.9591E-02
23	3.4836E-02	1.3912E+00	1.3220E-02	9.1058E-01	1.0085E+00	2.7777E+00	8.9020E-02	2.0614E-02
24	3.6236E-02	1.4471E+00	1.3334E-02	9.1838E-01	1.0085E+00	2.7774E+00	8.9800E-02	2.0976E-02
25	3.7716E-02	1.5062E+00	1.3071E-02	8.9482E-01	1.0070E+00	2.7663E+00	8.847E-02	2.0256E-02
26	3.9176E-02	1.5646E+00	1.3166E-02	9.0652E-01	1.0085E+00	2.7768E+00	8.8696E-02	2.0458E-02

X= 0. 0254 UT= 2. 1110E+01 RHDW= 3. 0741E-01 TW= 2. 8085E+02 D= 2. 4110E-02

I	Y (M)	Y/D	(RHD U) ' RHD U	(RHD U) ' RHDW*UT	U UREF	M	U ' UT	RHD*U'2 RHDW*UT2
1	3. 0000E-03	1. 2443E-01	1. 6099E-01	5. 3579E+00	7. 9893E-01	1. 7060E+00	1. 7058E+00	4. 4501E+00
2	4. 2500E-03	1. 7628E-01	1. 4596E-01	5. 3478E+00	8. 3258E-01	1. 8271E+00	1. 4924E+00	3. 5981E+00
3	5. 6940E-03	2. 3617E-01	1. 4650E-01	5. 7248E+00	8. 5404E-01	1. 9111E+00	1. 4570E+00	3. 5658E+00
4	7. 1050E-03	2. 9469E-01	1. 3673E-01	5. 6598E+00	8. 7253E-01	1. 9883E+00	1. 3233E+00	3. 0498E+00
5	8. 5400E-03	3. 5421E-01	1. 4054E-01	6. 1735E+00	8. 9101E-01	2. 0695E+00	1. 3202E+00	3. 1545E+00
6	9. 9850E-03	4. 1414E-01	1. 3660E-01	6. 2349E+00	9. 0218E-01	2. 1224E+00	1. 2571E+00	2. 9353E+00
7	1. 1424E-02	4. 7383E-01	1. 3981E-01	6. 6907E+00	9. 1584E-01	2. 1898E+00	1. 2530E+00	3. 0118E+00
8	1. 2846E-02	5. 3281E-01	1. 4021E-01	7. 1400E+00	9. 3361E-01	2. 2812E+00	1. 2114E+00	2. 9387E+00
9	1. 4290E-02	5. 9270E-01	1. 3113E-01	7. 0760E+00	9. 4964E-01	2. 3680E+00	1. 0936E+00	2. 4950E+00
10	1. 5720E-02	6. 5201E-01	1. 3585E-01	7. 5452E+00	9. 5669E-01	2. 4114E+00	1. 1122E+00	2. 6364E+00
11	1. 7160E-02	7. 1174E-01	1. 2692E-01	7. 3519E+00	9. 6706E-01	2. 4761E+00	1. 0109E+00	2. 2471E+00
12	1. 8620E-02	7. 7229E-01	1. 2214E-01	7. 4322E+00	9. 7938E-01	2. 5537E+00	9. 4146E-01	2. 0217E+00
13	2. 0060E-02	8. 3202E-01	1. 1580E-01	7. 3079E+00	9. 8782E-01	2. 6119E+00	8. 7043E-01	1. 7771E+00
14	2. 1480E-02	8. 9092E-01	1. 0243E-01	6. 6610E+00	9. 9430E-01	2. 6601E+00	7. 5392E-01	1. 3648E+00
15	2. 2900E-02	9. 4981E-01	9. 0443E-02	6. 0516E+00	1. 0003E+00	2. 7063E+00	6. 5234E-01	1. 0450E+00
16	2. 4360E-02	1. 0104E+00	7. 7110E-02	5. 2846E+00	1. 0050E+00	2. 7450E+00	5. 4675E-01	7. 4837E-01
17	2. 5810E-02	1. 0705E+00	6. 2498E-02	4. 2882E+00	1. 0040E+00	2. 7450E+00	4. 4269E-01	4. 9169E-01
18	2. 7280E-02	1. 1315E+00	4. 7967E-02	3. 3091E+00	1. 0051E+00	2. 7540E+00	3. 3841E-01	2. 8859E-01
19	2. 8720E-02	1. 1912E+00	3. 5408E-02	2. 4537E+00	1. 0061E+00	2. 7617E+00	2. 4899E-01	1. 5676E-01
20	3. 0200E-02	1. 2526E+00	2. 7296E-02	1. 8974E+00	1. 0069E+00	2. 7670E+00	1. 9152E-01	9. 2962E-02
21	3. 1640E-02	1. 3123E+00	1. 8457E-02	1. 2869E+00	1. 0077E+00	2. 7730E+00	1. 2917E-01	4. 2385E-02
22	3. 3110E-02	1. 3733E+00	1. 6910E-02	1. 1765E+00	1. 0072E+00	2. 7689E+00	1. 1855E-01	3. 5645E-02
23	3. 4570E-02	1. 4338E+00	1. 5388E-02	1. 0707E+00	1. 0072E+00	2. 7691E+00	1. 0788E-01	2. 9516E-02
24	3. 6030E-02	1. 4944E+00	1. 3177E-02	9. 1924E-01	1. 0078E+00	2. 7740E+00	9. 2181E-02	2. 1593E-02
25	3. 7500E-02	1. 5554E+00	1. 3281E-02	9. 2649E-01	1. 0078E+00	2. 7740E+00	9. 2908E-02	2. 1935E-02
26	3. 8960E-02	1. 6159E+00	1. 2877E-02	9. 0058E-01	1. 0085E+00	2. 7783E+00	8. 9924E-02	2. 0588E-02

X= 0.0508		UT= 1.9857E+01		RHDW= 3.2827E-01		TW= 2.8106E+02		D= 2.4250E-02	
I	Y (M)	Y/D	(RHD U)'	(RHD U)'	U	U'	RHD*U'2	RHDW*UT2	
			RHD U	RHDW*UT	UREF	UT			
1	2.9500E-03	1.2165E-01	1.6291E-01	5.6662E+00	7.8591E-01	1.6600E+00	1.8587E+00	5.2802E+00	
2	4.2049E-03	1.7340E-01	1.5532E-01	5.8562E+00	8.1382E-01	1.7582E+00	1.7263E+00	4.7616E+00	
3	5.6499E-03	2.3299E-01	1.4664E-01	5.9861E+00	8.4169E-01	1.8613E+00	1.5768E+00	4.1643E+00	
4	7.0539E-03	2.9088E-01	1.4300E-01	6.1281E+00	8.5738E-01	1.9249E+00	1.5046E+00	3.9076E+00	
5	8.4929E-03	3.5022E-01	1.4267E-01	6.4113E+00	8.7238E-01	1.9882E+00	1.4677E+00	3.8319E+00	
6	9.9279E-03	4.0940E-01	1.4425E-01	7.0030E+00	8.9665E-01	2.0953E+00	1.4266E+00	3.8051E+00	
7	1.1372E-02	4.6894E-01	1.3909E-01	6.9935E+00	9.0664E-01	2.1443E+00	1.3491E+00	3.4860E+00	
8	1.2798E-02	5.2775E-01	1.3505E-01	7.2059E+00	9.2396E-01	2.2293E+00	1.2670E+00	3.2015E+00	
9	1.4240E-02	5.8721E-01	1.3229E-01	7.4509E+00	9.3911E-01	2.3090E+00	1.2019E+00	2.9917E+00	
10	1.5670E-02	6.4618E-01	1.2830E-01	7.4386E+00	9.4634E-01	2.3520E+00	1.1445E+00	2.7713E+00	
11	1.7110E-02	7.0556E-01	1.2972E-01	7.7662E+00	9.5429E-01	2.4003E+00	1.1336E+00	2.7843E+00	
12	1.8570E-02	7.6577E-01	1.1994E-01	7.4528E+00	9.6365E-01	2.4573E+00	1.0233E+00	2.3316E+00	
13	2.0000E-02	8.2474E-01	1.1073E-01	7.0942E+00	9.7074E-01	2.5047E+00	9.2548E-01	1.9521E+00	
14	2.1420E-02	8.8329E-01	1.0171E-01	6.7125E+00	9.7747E-01	2.5506E+00	8.3337E-01	1.6193E+00	
15	2.2850E-02	9.4226E-01	9.0761E-02	6.1684E+00	9.8406E-01	2.5968E+00	7.2888E-01	1.2671E+00	
16	2.4320E-02	1.0029E+00	7.4123E-02	5.1749E+00	9.8988E-01	2.6396E+00	5.8421E-01	8.3127E-01	
17	2.5770E-02	1.0627E+00	6.0032E-02	4.2089E+00	9.8962E-01	2.6449E+00	4.7161E-01	5.4415E-01	
18	2.7230E-02	1.1229E+00	4.4963E-02	3.1712E+00	9.9081E-01	2.6543E+00	3.5175E-01	3.0413E-01	
19	2.8670E-02	1.1823E+00	3.0018E-02	2.1243E+00	9.9165E-01	2.6600E+00	2.3427E-01	1.3525E-01	
20	3.0160E-02	1.2437E+00	2.3174E-02	1.6400E+00	9.9165E-01	2.6600E+00	1.8086E-01	8.0610E-02	
21	3.1610E-02	1.3035E+00	1.9151E-02	1.3553E+00	9.9165E-01	2.6600E+00	1.4946E-01	5.5050E-02	
22	3.3060E-02	1.3633E+00	1.4385E-02	1.0180E+00	9.9165E-01	2.6600E+00	1.1226E-01	3.1059E-02	
23	3.4520E-02	1.4235E+00	1.2158E-02	8.5924E-01	9.9132E-01	2.6577E+00	9.4978E-02	2.2208E-02	
24	3.5980E-02	1.4837E+00	1.2144E-02	8.5578E-01	9.9061E-01	2.6530E+00	9.5058E-02	2.2197E-02	
25	3.7450E-02	1.5443E+00	1.2513E-02	8.8175E-01	9.9061E-01	2.6530E+00	9.7944E-02	2.3565E-02	
26	3.8920E-02	1.6049E+00	1.2256E-02	8.6159E-01	9.9002E-01	2.6490E+00	9.6089E-02	2.2641E-02	

X= 0. 0762		UT= 1. 9501E+01		RHOM= 3. 1365E-01		TW= 2. 8142E+02		D= 2. 2170E-02	
I	Y (M)	Y/D	(RHO U) ' RHO U	(RHO U) ' RHOM*UT	U UREF	M	U ' UT	RHO*U '2 RHOM*UT2	
1	2. 9000E-03	1. 3081E-01	1. 8783E-01	7. 0954E+00	7. 6947E-01	1. 6060E+00	2. 2110E+00	8. 1393E+00	
2	4. 1635E-03	1. 8780E-01	1. 7108E-01	7. 2406E+00	8. 1058E-01	1. 7447E+00	1. 9426E+00	6. 6822E+00	
3	5. 6075E-03	2. 5293E-01	1. 5141E-01	6. 8474E+00	8. 3334E-01	1. 8290E+00	1. 6754E+00	5. 1660E+00	
4	7. 0205E-03	3. 1667E-01	1. 4298E-01	6. 9345E+00	8. 5669E-01	1. 9203E+00	1. 5351E+00	4. 5244E+00	
5	8. 4425E-03	3. 8081E-01	1. 5562E-01	7. 6761E+00	8. 6123E-01	1. 9412E+00	1. 6577E+00	5. 3375E+00	
6	9. 8865E-03	4. 4594E-01	1. 4422E-01	7. 6208E+00	8. 6295E-01	2. 0349E+00	1. 4849E+00	4. 4753E+00	
7	1. 1316E-02	5. 1040E-01	1. 4317E-01	8. 0246E+00	9. 0117E-01	2. 1170E+00	1. 4295E+00	4. 3106E+00	
8	1. 2765E-02	5. 7576E-01	1. 4697E-01	8. 8105E+00	9. 2101E-01	2. 2134E+00	1. 4132E+00	4. 4088E+00	
9	1. 4205E-02	6. 4071E-01	1. 3839E-01	8. 7564E+00	9. 3619E-01	2. 2925E+00	1. 2890E+00	3. 8086E+00	
10	1. 5634E-02	7. 0521E-01	1. 3577E-01	8. 8781E+00	9. 4479E-01	2. 3412E+00	1. 2393E+00	3. 6051E+00	
11	1. 7095E-02	7. 7106E-01	1. 2864E-01	8. 7468E+00	9. 5476E-01	2. 4000E+00	1. 1456E+00	3. 1675E+00	
12	1. 8525E-02	8. 3557E-01	1. 2505E-01	8. 8739E+00	9. 6573E-01	2. 4658E+00	1. 0832E+00	2. 9239E+00	
13	1. 9965E-02	9. 0052E-01	1. 1862E-01	8. 5658E+00	9. 6920E-01	2. 4917E+00	1. 0156E+00	2. 6064E+00	
14	2. 1375E-02	9. 6412E-01	9. 9676E-02	7. 3794E+00	9. 7468E-01	2. 5303E+00	8. 3907E-01	1. 8137E+00	
15	2. 2815E-02	1. 0291E+00	8. 5663E-02	6. 4599E+00	9. 7837E-01	2. 5586E+00	7. 1198E-01	1. 3251E+00	
16	2. 4274E-02	1. 0949E+00	6. 7332E-02	5. 1144E+00	9. 7894E-01	2. 5685E+00	5. 5674E-01	8. 1565E-01	
17	2. 5734E-02	1. 1608E+00	5. 1667E-02	3. 9416E+00	9. 7881E-01	2. 5737E+00	4. 2587E-01	4. 7941E-01	
18	2. 7185E-02	1. 2262E+00	4. 2183E-02	3. 2135E+00	9. 7810E-01	2. 5711E+00	3. 4798E-01	3. 1986E-01	
19	2. 8634E-02	1. 2916E+00	3. 0872E-02	2. 3410E+00	9. 7685E-01	2. 5636E+00	2. 5546E-01	1. 7180E-01	
20	3. 0115E-02	1. 3583E+00	2. 4515E-02	1. 8480E+00	9. 7530E-01	2. 5540E+00	2. 0367E-01	1. 0873E-01	
21	3. 1564E-02	1. 4237E+00	1. 5783E-02	1. 1898E+00	9. 7530E-01	2. 5540E+00	1. 3112E-01	4. 5068E-02	
22	3. 3004E-02	1. 4887E+00	1. 2165E-02	9. 1486E-01	9. 7464E-01	2. 5502E+00	1. 0122E-01	2. 6811E-02	
23	3. 4464E-02	1. 5546E+00	1. 1901E-02	8. 9202E-01	9. 7372E-01	2. 5449E+00	9. 9234E-02	2. 5708E-02	
24	3. 5944E-02	1. 6213E+00	1. 1720E-02	8. 7582E-01	9. 7287E-01	2. 5400E+00	9. 7917E-02	2. 4977E-02	
25	3. 7404E-02	1. 6872E+00	1. 1512E-02	8. 6031E-01	9. 7287E-01	2. 5400E+00	9. 6182E-02	2. 4100E-02	
26	3. 8884E-02	1. 7539E+00	1. 1360E-02	8. 4693E-01	9. 7222E-01	2. 5363E+00	9. 5054E-02	2. 3478E-02	
32	4. 7364E-02	2. 1364E+00	1. 3387E-02	9. 9599E-01	9. 7165E-01	2. 5330E+00	1. 1216E-01	3. 2670E-02	

X= 0.1016 UT= 1.7797E+01 RHDW= 3.9561E-01 TM= 2.8080E+02 D= 2.2230E-02

I	Y (M)	Y/D	(RHD U)' RHD U	(RHD U)' RHDW*UT	U UREF	M	U' UT	RHD*U'2 RHDW*UT2
1	3.3500E-03	1.5070E-01	1.9794E-01	7.3179E+00	7.7048E-01	1.6079E+00	2.5533E+00	9.6821E+00
2	4.6135E-03	2.0753E-01	1.9929E-01	7.4791E+00	7.9411E-01	1.6878E+00	2.3922E+00	8.8127E+00
3	6.0395E-03	2.7168E-01	1.6973E-01	7.3869E+00	8.2829E-01	1.8092E+00	2.0713E+00	6.9772E+00
4	7.4485E-03	3.3507E-01	1.5499E-01	7.1674E+00	8.4861E-01	1.8874E+00	1.8440E+00	5.7356E+00
5	8.8885E-03	3.9984E-01	1.5657E-01	7.7194E+00	8.6948E-01	1.9726E+00	1.8088E+00	5.7421E+00
6	1.0332E-02	4.6475E-01	1.5752E-01	8.1033E+00	8.8227E-01	2.0291E+00	1.7823E+00	5.7324E+00
7	1.1769E-02	5.2940E-01	1.5569E-01	8.4683E+00	8.9936E-01	2.1073E+00	1.7101E+00	5.4746E+00
8	1.3210E-02	5.9422E-01	1.4852E-01	8.6205E+00	9.1861E-01	2.2001E+00	1.5736E+00	4.8429E+00
9	1.4650E-02	6.5900E-01	1.4067E-01	8.5515E+00	9.3178E-01	2.2672E+00	1.4511E+00	4.2519E+00
10	1.6089E-02	7.2377E-01	1.4444E-01	8.9133E+00	9.3489E-01	2.2881E+00	1.4761E+00	4.4514E+00
11	1.7540E-02	7.8900E-01	1.3472E-01	8.7234E+00	9.4766E-01	2.3597E+00	1.3366E+00	3.7782E+00
12	1.8969E-02	8.5333E-01	1.2266E-01	8.2729E+00	9.5837E-01	2.4217E+00	1.1860E+00	3.0637E+00
13	2.0390E-02	9.1721E-01	1.0576E-01	7.3100E+00	9.6407E-01	2.4590E+00	1.0061E+00	2.2462E+00
14	2.1819E-02	9.8153E-01	9.1394E-02	6.4882E+00	9.7010E-01	2.5002E+00	8.5394E-01	1.6517E+00
15	2.3289E-02	1.0477E+00	7.4802E-02	5.3680E+00	9.7173E-01	2.5159E+00	6.9369E-01	1.0999E+00
16	2.4749E-02	1.1133E+00	5.6472E-02	4.0705E+00	9.7160E-01	2.5212E+00	5.2201E-01	6.2571E-01
17	2.6200E-02	1.1786E+00	4.4012E-02	3.1836E+00	9.7134E-01	2.5252E+00	4.0577E-01	3.7949E-01
18	2.7640E-02	1.2433E+00	3.3936E-02	2.4389E+00	9.6956E-01	2.5150E+00	3.1417E-01	2.2645E-01
19	2.9140E-02	1.3108E+00	2.3088E-02	1.6482E+00	9.6770E-01	2.5037E+00	2.1474E-01	1.0529E-01
20	3.0579E-02	1.3756E+00	1.5103E-02	1.0698E+00	9.6555E-01	2.4909E+00	1.4122E-01	4.5283E-02
21	3.2009E-02	1.4399E+00	1.5009E-02	1.0529E+00	9.6284E-01	2.4754E+00	1.4123E-01	4.4981E-02
22	3.3409E-02	1.5029E+00	1.3861E-02	9.6291E-01	9.6008E-01	2.4602E+00	1.3122E-01	3.8564E-02
23	3.4879E-02	1.5690E+00	1.3791E-02	9.5283E-01	9.5853E-01	2.4516E+00	1.3102E-01	3.8298E-02
24	3.6349E-02	1.6352E+00	1.3135E-02	9.0451E-01	9.5763E-01	2.4464E+00	1.2505E-01	3.4804E-02
25	3.7809E-02	1.7008E+00	1.3507E-02	9.2709E-01	9.5673E-01	2.4412E+00	1.2887E-01	3.6876E-02
26	3.9289E-02	1.7674E+00	1.3048E-02	8.9834E-01	9.5757E-01	2.4461E+00	1.2424E-01	3.4350E-02

X= 0.1270 UT= 1.7478E+01 RHDW= 4.1371E-01 TM= 2.7940E+02 D= 2.1260E-02

I	Y (M)	Y/D	(RHD U)' RHD U	(RHD U)' RHDW*UT	U UREF	M	U' UT	RHD*U'2 RHDW*UT2
1	3.6300E-03	1.7074E-01	1.9658E-01	7.3148E+00	7.6816E-01	1.5993E+00	2.5884E+00	9.8650E+00
2	4.8650E-03	2.2883E-01	1.9222E-01	7.5637E+00	7.8837E-01	1.6659E+00	2.4902E+00	9.4078E+00
3	6.2940E-03	2.9605E-01	1.8853E-01	7.9024E+00	8.1039E-01	1.7428E+00	2.3908E+00	8.9862E+00
4	7.7310E-03	3.6364E-01	1.7012E-01	7.8997E+00	8.4603E-01	1.8738E+00	2.0725E+00	7.1663E+00
5	9.1660E-03	4.3114E-01	1.5767E-01	7.8149E+00	8.6721E-01	1.9609E+00	1.8635E+00	6.0333E+00
6	1.0592E-02	4.9821E-01	1.6269E-01	8.6142E+00	8.8822E-01	2.0505E+00	1.8618E+00	6.2812E+00
7	1.2040E-02	5.6632E-01	1.6793E-01	9.0634E+00	8.9305E-01	2.0760E+00	1.9018E+00	6.6439E+00
8	1.3465E-02	6.3335E-01	1.5603E-01	8.9075E+00	9.0990E-01	2.1552E+00	1.7141E+00	5.6032E+00
9	1.4915E-02	7.0155E-01	1.5316E-01	9.1677E+00	9.2336E-01	2.2231E+00	1.6377E+00	5.2848E+00
10	1.6365E-02	7.6976E-01	1.3972E-01	8.8465E+00	9.3934E-01	2.3062E+00	1.4449E+00	4.2774E+00
11	1.7795E-02	8.3702E-01	1.3253E-01	8.6916E+00	9.4839E-01	2.3582E+00	1.3410E+00	3.7801E+00
12	1.9215E-02	9.0381E-01	1.1823E-01	7.9745E+00	9.5524E-01	2.4004E+00	1.1750E+00	2.9630E+00
13	2.0645E-02	9.7107E-01	1.0279E-01	7.1035E+00	9.6085E-01	2.4371E+00	1.0054E+00	2.2096E+00
14	2.2115E-02	1.0402E+00	8.4139E-02	5.9594E+00	9.6646E-01	2.4739E+00	8.0993E-01	1.4613E+00
15	2.3565E-02	1.1084E+00	6.6949E-02	4.7681E+00	9.6666E-01	2.4809E+00	6.4194E-01	9.2287E-01
16	2.5025E-02	1.1771E+00	5.2117E-02	3.7208E+00	9.6598E-01	2.4830E+00	4.9875E-01	5.5883E-01
17	2.6465E-02	1.2448E+00	3.1710E-02	2.2637E+00	9.6498E-01	2.4816E+00	3.0339E-01	2.0698E-01
18	2.7955E-02	1.3149E+00	2.4857E-02	1.7684E+00	9.6405E-01	2.4763E+00	2.3834E-01	1.2743E-01
19	2.9395E-02	1.3826E+00	1.8044E-02	1.2796E+00	9.6317E-01	2.4712E+00	1.7337E-01	6.7273E-02
20	3.0845E-02	1.4508E+00	1.5876E-02	1.1199E+00	9.6166E-01	2.4630E+00	1.5305E-01	5.2229E-02
21	3.2305E-02	1.5195E+00	1.3785E-02	9.6668E-01	9.5994E-01	2.4537E+00	1.3339E-01	3.9506E-02
22	3.3775E-02	1.5887E+00	1.2875E-02	8.9989E-01	9.5903E-01	2.4484E+00	1.2485E-01	3.4529E-02
23	3.5245E-02	1.6578E+00	1.3642E-02	9.4755E-01	9.5722E-01	2.4387E+00	1.3280E-01	3.8897E-02
24	3.6705E-02	1.7265E+00	1.3054E-02	9.0071E-01	9.5536E-01	2.4283E+00	1.2760E-01	3.5747E-02
25	3.8185E-02	1.7961E+00	1.4096E-02	9.6532E-01	9.5326E-01	2.4164E+00	1.3847E-01	4.1869E-02
26	3.9625E-02	1.8638E+00	1.3728E-02	9.3091E-01	9.5037E-01	2.4005E+00	1.3573E-01	3.9955E-02
27	4.1115E-02	1.9339E+00	1.3995E-02	9.3946E-01	9.4751E-01	2.3848E+00	1.3925E-01	4.1756E-02
28	4.2515E-02	1.9998E+00	1.3593E-02	9.0510E-01	9.4517E-01	2.3724E+00	1.3592E-01	3.9559E-02

X= 0.1524

UT= 1.6824E+01

RHOW= 4.5257E-01

TW= 2.7924E+02

D= 2.3120E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHOW*UT	U UREF	M	U' UT	RHO*U'2 RHOW*UT2
1	3.6800E-03	1.5917E-01	2.1110E-01	7.8731E+00	7.5587E-01	1.5603E+00	2.9122E+00	1.2244E+01
2	4.9070E-03	2.1224E-01	1.9581E-01	7.8771E+00	7.8357E-01	1.6500E+00	2.6457E+00	1.0515E+01
3	6.3560E-03	2.7491E-01	1.9290E-01	8.1481E+00	8.0035E-01	1.7089E+00	2.5645E+00	1.0156E+01
4	7.7840E-03	3.3668E-01	1.8923E-01	8.4702E+00	8.2033E-01	1.7803E+00	2.4641E+00	9.6936E+00
5	9.2170E-03	3.9866E-01	1.7911E-01	8.7169E+00	8.4890E-01	1.8885E+00	2.2533E+00	8.5178E+00
6	1.0659E-02	4.6103E-01	1.7461E-01	9.0646E+00	8.6979E-01	1.9740E+00	2.1327E+00	7.9434E+00
7	1.2089E-02	5.2288E-01	1.6653E-01	9.2640E+00	8.9160E-01	2.0694E+00	1.9642E+00	7.0431E+00
8	1.3549E-02	5.8603E-01	1.6366E-01	9.3912E+00	9.0041E-01	2.1118E+00	1.8986E+00	6.7217E+00
9	1.4989E-02	6.4831E-01	1.6305E-01	9.7679E+00	9.1259E-01	2.1723E+00	1.8467E+00	6.5506E+00
10	1.6419E-02	7.1016E-01	1.4601E-01	9.3415E+00	9.3200E-01	2.2688E+00	1.5921E+00	5.0913E+00
11	1.7829E-02	7.7115E-01	1.3388E-01	8.9668E+00	9.4432E-01	2.3367E+00	1.4195E+00	4.1819E+00
12	1.9259E-02	8.3300E-01	1.2138E-01	8.4214E+00	9.5333E-01	2.3898E+00	1.2586E+00	3.3731E+00
13	2.0729E-02	8.9658E-01	1.0493E-01	7.4383E+00	9.5821E-01	2.4219E+00	1.0728E+00	2.4913E+00
14	2.2179E-02	9.5930E-01	8.5689E-02	6.1026E+00	9.5814E-01	2.4273E+00	8.7323E-01	1.6584E+00
15	2.3629E-02	1.0220E+00	6.7246E-02	4.8774E+00	9.6193E-01	2.4536E+00	6.7736E-01	1.0123E+00
16	2.5099E-02	1.0856E+00	4.8952E-02	3.5817E+00	9.6304E-01	2.4656E+00	4.9018E-01	5.3414E-01
17	2.6569E-02	1.1492E+00	3.2994E-02	2.4148E+00	9.6228E-01	2.4653E+00	3.3017E-01	2.4260E-01
18	2.8029E-02	1.2123E+00	2.3249E-02	1.6894E+00	9.6034E-01	2.4549E+00	2.3362E-01	1.2083E-01
19	2.9469E-02	1.2746E+00	2.0877E-02	1.5125E+00	9.5943E-01	2.4497E+00	2.1023E-01	9.7654E-02
20	3.0859E-02	1.3347E+00	1.9542E-02	1.4085E+00	9.5793E-01	2.4415E+00	1.9743E-01	8.5819E-02
21	3.2259E-02	1.3953E+00	1.7840E-02	1.2787E+00	9.5632E-01	2.4328E+00	1.8087E-01	7.1741E-02
22	3.3639E-02	1.4550E+00	1.9074E-02	1.3629E+00	9.5547E-01	2.4280E+00	1.9376E-01	8.2154E-02
23	3.5119E-02	1.5190E+00	2.0357E-02	1.4498E+00	9.5455E-01	2.4227E+00	2.0725E-01	9.3764E-02
24	3.6519E-02	1.5795E+00	2.2259E-02	1.5802E+00	9.5364E-01	2.4174E+00	2.2711E-01	1.1234E-01
25	3.7889E-02	1.6388E+00	2.1339E-02	1.5097E+00	9.5263E-01	2.4117E+00	2.1824E-01	1.0349E-01
26	3.9299E-02	1.6998E+00	1.9572E-02	1.3626E+00	9.4805E-01	2.3867E+00	2.0218E-01	8.7835E-02
27	4.0709E-02	1.7608E+00	1.6787E-02	1.1523E+00	9.4392E-01	2.3649E+00	1.7494E-01	6.5116E-02
28	4.2119E-02	1.8216E+00	1.5162E-02	1.0266E+00	9.3989E-01	2.3438E+00	1.5933E-01	5.3508E-02
29	4.3519E-02	1.8823E+00	1.3924E-02	9.2767E-01	9.3514E-01	2.3186E+00	1.4781E-01	4.5542E-02
30	4.4939E-02	1.9437E+00	1.3584E-02	8.9712E-01	9.3255E-01	2.3053E+00	1.4496E-01	4.3544E-02
31	4.6349E-02	2.0047E+00	1.4544E-02	9.5197E-01	9.2985E-01	2.2919E+00	1.5601E-01	5.0133E-02
32	4.7749E-02	2.0653E+00	1.4893E-02	9.6213E-01	9.2585E-01	2.2724E+00	1.6096E-01	5.2898E-02

X= 0.2032		UT= 1.5631E+01		RHOW= 5.1241E-01		TW= 2.8740E+02		D= 2.2170E-02			
I	Y (M)	Y/D	(RHO U)'	(RHO U)'	RHOW*UT	U	UREF	M	U'	UT	RHOW*U'2 RHOW*UT2
			RHO U								
1	3.1000E-03	1.3983E-01	2.1751E-01	8.2933E+00	7.2399E-01	1.4648E+00	3.2849E+00	1.4648E+00	3.2849E+00	1.5448E+01	
2	4.4210E-03	1.9941E-01	2.2047E-01	8.8772E+00	7.4406E-01	1.5257E+00	3.2937E+00	1.5257E+00	3.2937E+00	1.5959E+01	
3	5.8276E-03	2.6286E-01	1.9810E-01	8.7664E+00	7.7879E-01	1.6368E+00	2.8876E+00	1.6368E+00	2.8876E+00	1.2879E+01	
4	7.2680E-03	3.2783E-01	1.9828E-01	9.0692E+00	7.8992E-01	1.6757E+00	2.8601E+00	1.6757E+00	2.8601E+00	1.2875E+01	
5	8.6830E-03	3.9166E-01	2.0110E-01	9.8103E+00	8.1237E-01	1.7548E+00	2.8368E+00	1.7548E+00	2.8368E+00	1.3136E+01	
6	1.0115E-02	4.5625E-01	2.0275E-01	1.0342E+01	8.2721E-01	1.8108E+00	2.8106E+00	1.8108E+00	2.8106E+00	1.3241E+01	
7	1.1550E-02	5.2097E-01	1.8578E-01	1.0486E+01	8.6144E-01	1.9438E+00	2.4654E+00	1.9438E+00	2.4654E+00	1.0826E+01	
8	1.2991E-02	5.8597E-01	1.7170E-01	1.0507E+01	8.8716E-01	2.0541E+00	2.1897E+00	2.0541E+00	2.1897E+00	8.9902E+00	
9	1.4409E-02	6.4993E-01	1.6728E-01	1.0751E+01	9.0201E-01	2.1225E+00	2.0788E+00	2.1225E+00	2.0788E+00	8.3695E+00	
10	1.5855E-02	7.1516E-01	1.5931E-01	1.0826E+01	9.1809E-01	2.2015E+00	1.9191E+00	2.2015E+00	1.9191E+00	7.4110E+00	
11	1.7285E-02	7.7946E-01	1.5003E-01	1.0580E+01	9.2837E-01	2.2556E+00	1.7681E+00	2.2556E+00	1.7681E+00	6.4551E+00	
12	1.8725E-02	8.4461E-01	1.3857E-01	1.0054E+01	9.3576E-01	2.2978E+00	1.6044E+00	2.2978E+00	1.6044E+00	5.4251E+00	
13	2.0185E-02	9.1046E-01	1.1503E-01	8.5944E+00	9.4313E-01	2.3410E+00	1.3078E+00	2.3410E+00	1.3078E+00	3.6833E+00	
14	2.1545E-02	9.7181E-01	1.0568E-01	8.0611E+00	9.4779E-01	2.3705E+00	1.1862E+00	2.3705E+00	1.1862E+00	3.0784E+00	
15	2.2975E-02	1.0363E+00	7.1892E-02	5.5289E+00	9.4882E-01	2.3811E+00	8.0275E-01	2.3811E+00	8.0275E-01	1.4198E+00	
16	2.4315E-02	1.0968E+00	5.2283E-02	4.0149E+00	9.4715E-01	2.3770E+00	5.8418E-01	2.3770E+00	5.8418E-01	7.5215E-01	
17	2.5785E-02	1.1631E+00	3.5429E-02	2.7231E+00	9.4610E-01	2.3770E+00	3.9543E-01	2.3770E+00	3.9543E-01	3.4531E-01	
18	2.7235E-02	1.2285E+00	2.9245E-02	2.2356E+00	9.4420E-01	2.3684E+00	3.2744E-01	2.3684E+00	3.2744E-01	2.3596E-01	
19	2.8625E-02	1.2912E+00	2.3633E-02	1.7918E+00	9.4179E-01	2.3559E+00	2.6591E-01	2.3559E+00	2.6591E-01	1.5473E-01	
20	3.0005E-02	1.3534E+00	1.9646E-02	1.4753E+00	9.3906E-01	2.3416E+00	2.2231E-01	2.3416E+00	2.2231E-01	1.0743E-01	
21	3.1405E-02	1.4166E+00	1.8086E-02	1.3541E+00	9.3807E-01	2.3367E+00	2.0505E-01	2.3367E+00	2.0505E-01	9.1226E-02	
22	3.2865E-02	1.4824E+00	1.7810E-02	1.3260E+00	9.3642E-01	2.3274E+00	2.0269E-01	2.3274E+00	2.0269E-01	8.6795E-02	
23	3.4245E-02	1.5447E+00	1.6218E-02	1.2021E+00	9.3513E-01	2.3200E+00	1.8515E-01	2.3200E+00	1.8515E-01	7.3860E-02	
24	3.5615E-02	1.6065E+00	1.6500E-02	1.2229E+00	9.3513E-01	2.3200E+00	1.8837E-01	2.3200E+00	1.8837E-01	7.6450E-02	
25	3.7085E-02	1.6728E+00	1.6338E-02	1.2109E+00	9.3513E-01	2.3200E+00	1.8652E-01	2.3200E+00	1.8652E-01	7.4954E-02	
26	3.8485E-02	1.7359E+00	1.6431E-02	1.2137E+00	9.3412E-01	2.3149E+00	1.8795E-01	2.3149E+00	1.8795E-01	7.5936E-02	

X= 0.2286 UT= 1.6886E+01 RHQW= 5.3767E-01 TM= 2.8491E+02 D= 2.4000E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHQW*UT	U UREF	M	U' UT	RHO*U'2 RHQW*UT2
1	3.1000E-03	1.2917E-01	2.1533E-01	7.4969E+00	7.2343E-01	1.4612E+00	3.0148E+00	1.2845E+01
2	4.4971E-03	1.8738E-01	2.2194E-01	7.9621E+00	7.3392E-01	1.4940E+00	3.0884E+00	1.3692E+01
3	5.9181E-03	2.4659E-01	2.1127E-01	8.0838E+00	7.5748E-01	1.5683E+00	2.8955E+00	1.2437E+01
4	7.3401E-03	3.0584E-01	1.9610E-01	8.2078E+00	7.9013E-01	1.6751E+00	2.6201E+00	1.0679E+01
5	8.7871E-03	3.6613E-01	2.0417E-01	8.8496E+00	8.0183E-01	1.7171E+00	2.6952E+00	1.1532E+01
6	1.0211E-02	4.2546E-01	1.9426E-01	9.0869E+00	8.2815E-01	1.8128E+00	2.4924E+00	1.0304E+01
7	1.1642E-02	4.8509E-01	1.9291E-01	9.5865E+00	8.4830E-01	1.8907E+00	2.4133E+00	1.0019E+01
8	1.3088E-02	5.4534E-01	1.8189E-01	9.7780E+00	8.7394E-01	1.9964E+00	2.1930E+00	8.6874E+00
9	1.4528E-02	6.0534E-01	1.7999E-01	1.0093E+01	8.8675E-01	2.0533E+00	2.1249E+00	8.3844E+00
10	1.5968E-02	6.6534E-01	1.7291E-01	1.0106E+01	8.9882E-01	2.1103E+00	1.9970E+00	7.6153E+00
11	1.7418E-02	7.2575E-01	1.6107E-01	1.0056E+01	9.1811E-01	2.2049E+00	1.7924E+00	6.4158E+00
12	1.8838E-02	7.8492E-01	1.4224E-01	9.4291E+00	9.3557E-01	2.2935E+00	1.5281E+00	4.8589E+00
13	2.0268E-02	8.4450E-01	1.2913E-01	8.8355E+00	9.4365E-01	2.3400E+00	1.3606E+00	3.9416E+00
14	2.1708E-02	9.0450E-01	1.0407E-01	7.3725E+00	9.5240E-01	2.3917E+00	1.0729E+00	2.5144E+00
15	2.3178E-02	9.6575E-01	8.2260E-02	5.9354E+00	9.5640E-01	2.4191E+00	8.3783E-01	1.5552E+00
16	2.4638E-02	1.0266E+00	6.3556E-02	4.6271E+00	9.5760E-01	2.4318E+00	6.4326E-01	9.2385E-01
17	2.6068E-02	1.0862E+00	4.3703E-02	3.2168E+00	9.5938E-01	2.4471E+00	4.3915E-01	4.3450E-01
18	2.7548E-02	1.1478E+00	2.9052E-02	2.1453E+00	9.6033E-01	2.4529E+00	2.9121E-01	1.9150E-01
19	2.9008E-02	1.2087E+00	2.4246E-02	1.8000E+00	9.6188E-01	2.4614E+00	2.4222E-01	1.3298E-01
20	3.0468E-02	1.2695E+00	1.8680E-02	1.3938E+00	9.6330E-01	2.4690E+00	1.8605E-01	7.8734E-02
21	3.1918E-02	1.3299E+00	1.8832E-02	1.4067E+00	9.6330E-01	2.4690E+00	1.8777E-01	8.0197E-02
22	3.3388E-02	1.3912E+00	2.0808E-02	1.5387E+00	9.6067E-01	2.4545E+00	2.0845E-01	9.8225E-02
23	3.4868E-02	1.4528E+00	2.2806E-02	1.6630E+00	9.5662E-01	2.4320E+00	2.3056E-01	1.1899E-01
24	3.6248E-02	1.5103E+00	2.2953E-02	1.6493E+00	9.5246E-01	2.4088E+00	2.3425E-01	1.2156E-01
25	3.7718E-02	1.5716E+00	2.1635E-02	1.5386E+00	9.4966E-01	2.3934E+00	2.2218E-01	1.0855E-01
26	3.9198E-02	1.6333E+00	1.9951E-02	1.4087E+00	9.4756E-01	2.3821E+00	2.0582E-01	9.2696E-02
27	4.0648E-02	1.6937E+00	1.8048E-02	1.2639E+00	9.4512E-01	2.3692E+00	1.8714E-01	7.6206E-02
28	4.2138E-02	1.7558E+00	1.9460E-02	1.3503E+00	9.4244E-01	2.3552E+00	2.0291E-01	8.9024E-02
29	4.3628E-02	1.8178E+00	1.9690E-02	1.3613E+00	9.4141E-01	2.3500E+00	2.0573E-01	9.1279E-02

X= 0.2540 UT= 1.7123E+01 RHDW= 5.2150E-01 TW= 2.8506E+02 D= 2.3310E-02

I	Y (M)	Y/D	(RHD U)' RHD U	(RHD U)' RHDW*UT	U UREF	M	U' UT	RHD*U'2 RHDW*UT2
1	3.1000E-03	1.3299E-01	2.0358E-01	7.5722E+00	7.5394E-01	1.5518E+00	2.7673E+00	1.1251E+01
2	4.4610E-03	1.9138E-01	1.8536E-01	7.1353E+00	7.6592E-01	1.5913E+00	2.4966E+00	9.3286E+00
3	5.8960E-03	2.5294E-01	1.9099E-01	7.6378E+00	7.7912E-01	1.6355E+00	2.5444E+00	9.8954E+00
4	7.3230E-03	3.1416E-01	1.8648E-01	7.6911E+00	7.9897E-01	1.7041E+00	2.4390E+00	9.3827E+00
5	8.7560E-03	3.7563E-01	1.8806E-01	8.3482E+00	8.1527E-01	1.7635E+00	2.4169E+00	9.4714E+00
6	1.0192E-02	4.3724E-01	1.9134E-01	8.9911E+00	8.3440E-01	1.8354E+00	2.4045E+00	9.6959E+00
7	1.1632E-02	4.9901E-01	1.8138E-01	9.0636E+00	8.5477E-01	1.9156E+00	2.2194E+00	8.5753E+00
8	1.3092E-02	5.6165E-01	1.8143E-01	9.7284E+00	8.7729E-01	2.0107E+00	2.1460E+00	8.3826E+00
9	1.4522E-02	6.2299E-01	1.7930E-01	1.0109E+01	8.9278E-01	2.0796E+00	2.0674E+00	8.0379E+00
10	1.5952E-02	6.8434E-01	1.7311E-01	1.0300E+01	9.0850E-01	2.1550E+00	1.9384E+00	7.3281E+00
11	1.7372E-02	7.4526E-01	1.6621E-01	1.0345E+01	9.2147E-01	2.2200E+00	1.8139E+00	6.6179E+00
12	1.8842E-02	8.0832E-01	1.4971E-01	9.7251E+00	9.3329E-01	2.2826E+00	1.5928E+00	5.2582E+00
13	2.0292E-02	8.7053E-01	1.3242E-01	9.0119E+00	9.4577E-01	2.3514E+00	1.3695E+00	4.0193E+00
14	2.1752E-02	9.3316E-01	1.1082E-01	7.7401E+00	9.5202E-01	2.3899E+00	1.1274E+00	2.7769E+00
15	2.3202E-02	9.9537E-01	9.6450E-02	6.8769E+00	9.5661E-01	2.4205E+00	9.6811E-01	2.0803E+00
16	2.4682E-02	1.0589E+00	7.6710E-02	5.5514E+00	9.5948E-01	2.4423E+00	7.6235E-01	1.3054E+00
17	2.6132E-02	1.1211E+00	4.8670E-02	3.5380E+00	9.5948E-01	2.4476E+00	4.8218E-01	5.2457E-01
18	2.7592E-02	1.1837E+00	2.9768E-02	2.1647E+00	9.5948E-01	2.4480E+00	2.9485E-01	1.9621E-01
19	2.9042E-02	1.2459E+00	2.2292E-02	1.6179E+00	9.5897E-01	2.4451E+00	2.2106E-01	1.1014E-01
20	3.0512E-02	1.3090E+00	1.7738E-02	1.2822E+00	9.5786E-01	2.4389E+00	1.7635E-01	6.9890E-02
21	3.1982E-02	1.3720E+00	1.4229E-02	1.0216E+00	9.5585E-01	2.4281E+00	1.4207E-01	4.5150E-02
22	3.3432E-02	1.4342E+00	1.3696E-02	9.8270E-01	9.5565E-01	2.4270E+00	1.3681E-01	4.1847E-02
23	3.4912E-02	1.4977E+00	1.4058E-02	1.0087E+00	9.5565E-01	2.4270E+00	1.4043E-01	4.4092E-02
24	3.6392E-02	1.5612E+00	1.5036E-02	1.0789E+00	9.5565E-01	2.4270E+00	1.5020E-01	5.0438E-02
25	3.7862E-02	1.6243E+00	1.6220E-02	1.1638E+00	9.5565E-01	2.4270E+00	1.6202E-01	5.8691E-02
26	3.9272E-02	1.6848E+00	1.6307E-02	1.1727E+00	9.5638E-01	2.4312E+00	1.6261E-01	5.9212E-02
27	4.0692E-02	1.7457E+00	1.6668E-02	1.2005E+00	9.5687E-01	2.4340E+00	1.6602E-01	6.1781E-02
28	4.2072E-02	1.8049E+00	1.6849E-02	1.2136E+00	9.5687E-01	2.4340E+00	1.6782E-01	6.3130E-02

X= 0.2794 UT= 1.8160E+01 RHDW= 5.0866E-01 TW= 2.8610E+02 D= 2.4330E-02

I	Y (M)	Y/D	(RHD U)' RHD U	(RHD U)' RHDW*UT	U UREF	M	U' UT	RHDW*U'2 RHDW*UT2
1	3.1000E-03	1.2741E-01	1.9584E-01	6.8905E+00	7.5431E-01	1.5521E+00	2.5107E+00	9.2866E+00
2	4.5430E-03	1.8672E-01	1.8215E-01	6.8195E+00	7.7672E-01	1.6251E+00	2.2962E+00	8.0266E+00
3	5.9840E-03	2.4595E-01	1.7857E-01	7.1056E+00	7.9837E-01	1.6979E+00	2.2092E+00	7.6826E+00
4	7.4240E-03	3.0514E-01	1.8232E-01	7.5250E+00	8.1061E-01	1.7424E+00	2.2263E+00	7.9710E+00
5	8.8640E-03	3.6432E-01	1.9827E-01	8.2240E+00	8.2984E-01	1.8141E+00	2.2487E+00	8.4071E+00
6	1.0314E-02	4.2392E-01	1.8951E-01	8.6029E+00	8.4221E-01	1.8626E+00	2.2277E+00	8.4483E+00
7	1.1744E-02	4.8270E-01	1.8332E-01	8.7792E+00	8.5960E-01	1.9330E+00	2.1038E+00	7.7875E+00
8	1.3154E-02	5.4065E-01	1.8035E-01	9.3247E+00	8.8400E-01	2.0370E+00	1.9937E+00	7.3425E+00
9	1.4604E-02	6.0025E-01	1.8641E-01	1.0248E+01	9.0306E-01	2.1225E+00	1.9960E+00	7.6607E+00
10	1.6064E-02	6.6025E-01	1.7505E-01	9.9930E+00	9.1366E-01	2.1759E+00	1.8348E+00	6.6435E+00
11	1.7524E-02	7.2026E-01	1.6840E-01	1.0001E+01	9.2458E-01	2.2328E+00	1.7250E+00	6.0365E+00
12	1.8974E-02	7.7986E-01	1.5455E-01	9.5838E+00	9.3636E-01	2.2961E+00	1.5428E+00	4.9782E+00
13	2.0434E-02	8.3987E-01	1.3938E-01	9.0811E+00	9.4976E-01	2.3701E+00	1.3497E+00	3.9467E+00
14	2.1904E-02	9.0029E-01	1.2700E-01	8.5159E+00	9.5658E-01	2.4131E+00	1.2072E+00	3.2266E+00
15	2.3364E-02	9.6030E-01	1.0019E-01	6.8918E+00	9.6256E-01	2.4517E+00	9.3658E-01	1.9799E+00
16	2.4804E-02	1.0195E+00	7.9003E-02	5.5357E+00	9.6655E-01	2.4794E+00	7.2962E-01	1.2189E+00
17	2.6264E-02	1.0795E+00	6.4561E-02	4.5597E+00	9.6746E-01	2.4897E+00	5.9318E-01	8.1127E-01
18	2.7744E-02	1.1403E+00	3.7917E-02	2.6951E+00	9.6925E-01	2.5009E+00	3.4673E-01	2.7845E-01
19	2.9204E-02	1.2003E+00	2.6434E-02	1.8832E+00	9.6991E-01	2.5050E+00	2.4132E-01	1.3510E-01
20	3.0674E-02	1.2607E+00	2.4979E-02	1.7813E+00	9.7017E-01	2.5065E+00	2.2790E-01	1.2057E-01
21	3.2154E-02	1.3216E+00	1.9194E-02	1.3735E+00	9.7108E-01	2.5117E+00	1.7475E-01	7.1071E-02
22	3.3594E-02	1.3808E+00	1.7020E-02	1.2221E+00	9.7197E-01	2.5168E+00	1.5464E-01	5.5789E-02
23	3.5084E-02	1.4420E+00	1.7265E-02	1.2435E+00	9.7288E-01	2.5221E+00	1.5652E-01	5.7284E-02
24	3.6504E-02	1.5004E+00	1.7404E-02	1.2561E+00	9.7357E-01	2.5260E+00	1.5753E-01	5.8104E-02
25	3.7894E-02	1.5575E+00	1.7602E-02	1.2704E+00	9.7357E-01	2.5260E+00	1.5932E-01	5.9434E-02
26	3.9314E-02	1.6159E+00	1.7785E-02	1.2836E+00	9.7357E-01	2.5260E+00	1.6098E-01	6.0678E-02

X= 0.3175 UT= 1.7904E+01 RHO= 5.1173E-01 TW= 2.8506E+02 D= 2.6520E-02

I	Y (M)	Y/D	(RHO U)' RHO U	(RHO U)' RHO*UT	U UREF	M	U' UT	RHO*U' RHO*UT2
1	3.1000E-03	1.1689E-01	1.7450E-01	6.3420E+00	7.6455E-01	1.5782E+00	2.2623E+00	7.5757E+00
2	4.3100E-03	1.6252E-01	1.7311E-01	6.6658E+00	7.8544E-01	1.6460E+00	2.2087E+00	7.4470E+00
3	5.7600E-03	2.1719E-01	1.5707E-01	6.1012E+00	7.8751E-01	1.6556E+00	1.9971E+00	6.1260E+00
4	7.1300E-03	2.6885E-01	1.5240E-01	6.3076E+00	8.0988E-01	1.7328E+00	1.8974E+00	5.7290E+00
5	8.4900E-03	3.2014E-01	1.5114E-01	6.4729E+00	8.2119E-01	1.7749E+00	1.8577E+00	5.6042E+00
6	9.7800E-03	3.6878E-01	1.5092E-01	6.5916E+00	8.4306E-01	1.8571E+00	1.8075E+00	5.5103E+00
7	1.1120E-02	4.1931E-01	1.5251E-01	7.0726E+00	8.4731E-01	1.8765E+00	1.8134E+00	5.6044E+00
8	1.2520E-02	4.7210E-01	1.6092E-01	7.8599E+00	8.6407E-01	1.9446E+00	1.8691E+00	6.1491E+00
9	1.3900E-02	5.2413E-01	1.7299E-01	8.9171E+00	8.8090E-01	2.0170E+00	1.9573E+00	6.9802E+00
10	1.5280E-02	5.7617E-01	1.6645E-01	9.0112E+00	8.9593E-01	2.0848E+00	1.8359E+00	6.3421E+00
11	1.6660E-02	6.2821E-01	1.6578E-01	9.4032E+00	9.0991E-01	2.1510E+00	1.7825E+00	6.1671E+00
12	1.8050E-02	6.8062E-01	1.5938E-01	9.4387E+00	9.2200E-01	2.2118E+00	1.6726E+00	5.5957E+00
13	1.9370E-02	7.3039E-01	1.5938E-01	9.8513E+00	9.3385E-01	2.2743E+00	1.6308E+00	5.4811E+00
14	2.0760E-02	7.8281E-01	1.5303E-01	9.8768E+00	9.4573E-01	2.3392E+00	1.5247E+00	4.9402E+00
15	2.2120E-02	8.3409E-01	1.4679E-01	9.6972E+00	9.5123E-01	2.3729E+00	1.4416E+00	4.4940E+00
16	2.3510E-02	8.8650E-01	1.3292E-01	8.9694E+00	9.5615E-01	2.4047E+00	1.2874E+00	3.6422E+00
17	2.4920E-02	9.3967E-01	1.1876E-01	8.1478E+00	9.5979E-01	2.4298E+00	1.1375E+00	2.8802E+00
18	2.6310E-02	9.9208E-01	1.0235E-01	7.0726E+00	9.6088E-01	2.4395E+00	9.7579E-01	2.1323E+00
19	2.7700E-02	1.0445E+00	8.5786E-02	5.9652E+00	9.6249E-01	2.4493E+00	8.1452E-01	1.4925E+00
20	2.9110E-02	1.0977E+00	6.7504E-02	4.7171E+00	9.6385E-01	2.4571E+00	6.3890E-01	9.2149E-01
21	3.0470E-02	1.1489E+00	4.5292E-02	3.1751E+00	9.6468E-01	2.4619E+00	4.2783E-01	4.1418E-01

X=-0.0127

UT= 2.2752E+01

RHQM= 2.8335E-01

TW= 2.8506E+02

D= 2.4080E-02

RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHOU	TAU	(RHO U)'V'
				UREF	RHOUREF	TAUM	RHOU U
1	2.6800E-03	1.1130E-01	1.7545E+00	8.0524E-01	3.8489E-01	7.5697E-01	-3.0136E-03
2	3.9286E-03	1.6315E-01	1.8413E+00	8.2842E-01	4.1959E-01	7.2154E-01	-2.7048E-03
3	5.3406E-03	2.2179E-01	1.9312E+00	8.5092E-01	4.6089E-01	7.2791E-01	-2.5577E-03
4	6.7506E-03	2.8034E-01	2.0436E+00	8.7748E-01	4.9007E-01	8.3411E-01	-2.8646E-03
5	8.1696E-03	3.3927E-01	2.1074E+00	8.9091E-01	5.3603E-01	6.4024E-01	-2.0584E-03
6	9.6116E-03	3.9915E-01	2.1712E+00	9.0402E-01	5.7692E-01	7.9896E-01	-2.4446E-03
7	1.1034E-02	4.5821E-01	2.2714E+00	9.2377E-01	6.0906E-01	6.1149E-01	-1.8414E-03
8	1.2458E-02	5.1734E-01	2.3340E+00	9.3498E-01	6.4858E-01	6.3533E-01	-1.8419E-03
9	1.3898E-02	5.7714E-01	2.4219E+00	9.5012E-01	6.8213E-01	5.3074E-01	-1.5154E-03
10	1.5338E-02	6.3694E-01	2.4819E+00	9.5985E-01	7.2668E-01	4.5409E-01	-1.2471E-03
11	1.6788E-02	6.9716E-01	2.5365E+00	9.6805E-01	7.6579E-01	4.0253E-01	-1.0730E-03
12	1.8228E-02	7.5696E-01	2.6173E+00	9.8024E-01	8.0816E-01	3.5885E-01	-9.3689E-04
13	1.9648E-02	8.1593E-01	2.6837E+00	9.8929E-01	8.4645E-01	2.2664E-01	-5.8087E-04
14	2.1068E-02	8.7490E-01	2.7540E+00	9.9859E-01	8.7495E-01	1.8031E-01	-4.6034E-04
15	2.2518E-02	9.3512E-01	2.8144E+00	1.0062E+00	9.0817E-01	7.3540E-02	-1.8552E-04
16	2.3968E-02	9.9533E-01	2.8354E+00	1.0079E+00	9.3878E-01	7.0387E-02	-1.7343E-04
17	2.5448E-02	1.0568E+00	2.8524E+00	1.0090E+00	9.5983E-01	4.0455E-02	-9.8278E-05
18	2.6898E-02	1.1170E+00	2.8590E+00	1.0094E+00	9.7627E-01	1.4030E-02	-3.3617E-05
19	2.8348E-02	1.1772E+00	2.8590E+00	1.0094E+00	9.9103E-01	9.6619E-03	-2.2805E-05
20	2.9828E-02	1.2387E+00	2.8590E+00	1.0094E+00	9.9387E-01	-2.9431E-02	6.9266E-05
21	3.1288E-02	1.2993E+00	2.8639E+00	1.0101E+00	9.9761E-01	6.4464E-03	-1.5144E-05

X= 0.0000 UT= 2.2339E+01 RHDW= 2.8381E-01 TW= 2.8948E+02 D= 2.4110E-02 RHDUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHDU	RHDUREF	TAU	(RHD U)'
				UREF			TAUW	RHDU U
1	2.7100E-03	1.1240E-01	1.7100E+00	7.9564E-01	3.2989E-01	4.9652E-01	-2.1916E-03	
2	3.9400E-03	1.6342E-01	1.8272E+00	8.2804E-01	3.5938E-01	5.8449E-01	-2.4496E-03	
3	5.3310E-03	2.2111E-01	1.9060E+00	8.4777E-01	3.8963E-01	7.4500E-01	-2.9539E-03	
4	6.7750E-03	2.8100E-01	2.0023E+00	8.7119E-01	4.1964E-01	6.1459E-01	-2.3373E-03	
5	8.1336E-03	3.5735E-01	2.0582E+00	8.8343E-01	4.4791E-01	7.7419E-01	-2.8152E-03	
6	9.5738E-03	3.9709E-01	2.1465E+00	9.0236E-01	4.7989E-01	5.6159E-01	-1.9689E-03	
7	1.1037E-02	4.5778E-01	2.2272E+00	9.1863E-01	5.1439E-01	4.9565E-01	-1.6716E-03	
8	1.2413E-02	5.1485E-01	2.2878E+00	9.3000E-01	5.4383E-01	5.4068E-01	-1.7660E-03	
9	1.3846E-02	5.7428E-01	2.3658E+00	9.4397E-01	5.7353E-01	3.8616E-01	-1.2336E-03	
10	1.5313E-02	6.3513E-01	2.4403E+00	9.5662E-01	6.0664E-01	3.9037E-01	-1.2149E-03	
11	1.6754E-02	6.9490E-01	2.5082E+00	9.6745E-01	6.3622E-01	3.4675E-01	-1.0578E-03	
12	1.8211E-02	7.5533E-01	2.5737E+00	9.7737E-01	6.6857E-01	2.4163E-01	-7.2066E-04	
13	1.9667E-02	8.1572E-01	2.6324E+00	9.8562E-01	7.0178E-01	2.4410E-01	-7.1079E-04	
14	2.1107E-02	8.7545E-01	2.6895E+00	9.9333E-01	7.2962E-01	1.9737E-01	-5.6619E-04	
15	2.2447E-02	9.3102E-01	2.7394E+00	9.9976E-01	7.5080E-01	7.5128E-02	-2.1388E-04	
16	2.3817E-02	9.8785E-01	2.7794E+00	1.0044E+00	7.7597E-01	8.4542E-02	-2.3692E-04	
17	2.5217E-02	1.0459E+00	2.7921E+00	1.0052E+00	7.9299E-01	7.8851E-02	-2.1754E-04	
18	2.6597E-02	1.1032E+00	2.8012E+00	1.0059E+00	8.0432E-01	-9.6736E-03	2.6424E-05	
19	2.7977E-02	1.1604E+00	2.8160E+00	1.0080E+00	8.1807E-01	3.0092E-02	-8.1296E-05	
20	2.9347E-02	1.2172E+00	2.8062E+00	1.0065E+00	8.2909E-01	2.0077E-02	-5.3316E-05	
21	3.0747E-02	1.2753E+00	2.8020E+00	1.0059E+00	8.3379E-01	-2.6603E-03	7.0129E-06	
22	3.2137E-02	1.3329E+00	2.8020E+00	1.0059E+00	8.3615E-01	-4.4451E-03	1.1685E-05	
23	3.3517E-02	1.3902E+00	2.8020E+00	1.0059E+00	8.3796E-01	-1.9126E-03	5.0168E-06	

X= 0.0127 UT= 2.2261E+01 RHDW= 2.8553E-01 TW= 2.9142E+02 D= 2.5040E-02 RHDUREF= 4.6000E+02

I	Y (M)	V/D	M	U	RHDU	TAU	(RHD U)' V'
				UREF	RHDUREF	TAUW	RHDU U
1	3.1200E-03	1.2460E-01	1.7222E+00	8.0378E-01	3.2739E-01	6.6338E-01	-2.9404E-03
2	4.3500E-03	1.7372E-01	1.8140E+00	8.2916E-01	3.5268E-01	4.7840E-01	-2.0216E-03
3	5.7900E-03	2.3123E-01	1.9211E+00	8.5683E-01	3.5979E-01	6.9548E-01	-2.7510E-03
4	7.1680E-03	2.8626E-01	1.9877E+00	8.7258E-01	4.1296E-01	7.1502E-01	-2.7317E-03
5	8.6090E-03	3.4381E-01	2.0497E+00	8.8669E-01	4.4661E-01	6.5807E-01	-2.3764E-03
6	9.9630E-03	3.9796E-01	2.1374E+00	9.0555E-01	4.7567E-01	5.8418E-01	-2.0457E-03
7	1.1349E-02	4.5323E-01	2.2007E+00	9.1844E-01	4.9931E-01	4.8778E-01	-1.6668E-03
8	1.2715E-02	5.0778E-01	2.2962E+00	9.3702E-01	5.3656E-01	5.7296E-01	-1.8902E-03
9	1.4083E-02	5.6242E-01	2.3270E+00	9.4200E-01	5.6303E-01	4.3059E-01	-1.3712E-03
10	1.5460E-02	6.1741E-01	2.3928E+00	9.5345E-01	5.9069E-01	4.3836E-01	-1.3662E-03
11	1.6830E-02	6.7212E-01	2.4710E+00	9.6671E-01	6.1708E-01	3.7470E-01	-1.1535E-03
12	1.8282E-02	7.3011E-01	2.5543E+00	9.8004E-01	6.4474E-01	3.3194E-01	-1.0117E-03
13	1.9667E-02	7.8542E-01	2.5900E+00	9.8476E-01	6.6779E-01	3.1129E-01	-9.3018E-04
14	2.1029E-02	8.3982E-01	2.6458E+00	9.9248E-01	6.9653E-01	1.6870E-01	-4.9475E-04
15	2.2314E-02	8.9113E-01	2.7054E+00	1.0008E+00	7.2313E-01	9.6864E-02	-2.8047E-04
16	2.3660E-02	9.4489E-01	2.7249E+00	1.0027E+00	7.4656E-01	8.4774E-02	-2.3986E-04
17	2.4970E-02	9.9720E-01	2.7467E+00	1.0049E+00	7.6366E-01	5.2188E-02	-1.4576E-04
18	2.6360E-02	1.0527E+00	2.7684E+00	1.0073E+00	7.8181E-01	-2.4250E-02	6.6789E-05
19	2.7740E-02	1.1078E+00	2.7793E+00	1.0088E+00	7.9516E-01	8.7711E-03	-2.3857E-05
20	2.9040E-02	1.1597E+00	2.7810E+00	1.0090E+00	7.9969E-01	-6.2177E-03	1.6828E-05
21	3.0420E-02	1.2149E+00	2.7829E+00	1.0093E+00	8.0544E-01	-1.0572E-02	2.8430E-05
22	3.1820E-02	1.2708E+00	2.7878E+00	1.0101E+00	8.0874E-01	-1.3880E-03	3.7245E-06
23	3.3190E-02	1.3255E+00	2.7785E+00	1.0087E+00	8.0887E-01	1.2830E-03	-3.4297E-06
24	3.4550E-02	1.3798E+00	2.7767E+00	1.0084E+00	8.0978E-01	-1.0718E-03	2.8597E-06

X= 0.0254 UT= 2.1505E+01 RHDW= 2.9623E-01 TM= 2.9146E+02 D= 2.4110E-02 RHDUREF= 4.6000E+02

I	Y (N)	Y/D	M	U	RHDU	RHDUREF	TAU	TAUM	(RHD U)'	RHDU U
				UREF						
1	2.9300E-03	1.2153E-01	1.7018E+00	7.9777E-01	3.3587E-01	7.2798E-01	-3.0289E-03			
2	4.1600E-03	1.7254E-01	1.8204E+00	8.3078E-01	3.6553E-01	7.5724E-01	-2.9951E-03			
3	5.6020E-03	2.3235E-01	1.9069E+00	8.5304E-01	3.9462E-01	7.6305E-01	-2.8738E-03			
4	7.0540E-03	2.9258E-01	1.9861E+00	8.7202E-01	4.2903E-01	7.4362E-01	-2.6464E-03			
5	8.4958E-03	3.5238E-01	2.0665E+00	8.9034E-01	4.6340E-01	6.6435E-01	-2.2523E-03			
6	9.9370E-03	4.1215E-01	2.1214E+00	9.0197E-01	4.8860E-01	7.1200E-01	-2.3366E-03			
7	1.1390E-02	4.7242E-01	2.1876E+00	9.1538E-01	5.2207E-01	7.0611E-01	-2.2240E-03			
8	1.2846E-02	5.3281E-01	2.2812E+00	9.3361E-01	5.4994E-01	4.7281E-01	-1.4657E-03			
9	1.4281E-02	5.9233E-01	2.3674E+00	9.4954E-01	5.8147E-01	5.4065E-01	-1.6396E-03			
10	1.5739E-02	6.5280E-01	2.4119E+00	9.5677E-01	6.1647E-01	3.3257E-01	-9.6888E-04			
11	1.7181E-02	7.1261E-01	2.4773E+00	9.6726E-01	6.4271E-01	3.6526E-01	-1.0484E-03			
12	1.8639E-02	7.7308E-01	2.5545E+00	9.7949E-01	6.7290E-01	2.9756E-01	-8.4183E-04			
13	2.0091E-02	8.3331E-01	2.6132E+00	9.8800E-01	7.0137E-01	1.9730E-01	-5.4876E-04			
14	2.1531E-02	8.9303E-01	2.6618E+00	9.9453E-01	7.2389E-01	2.1411E-01	-5.8895E-04			
15	2.2951E-02	9.5193E-01	2.7079E+00	1.0005E+00	7.5594E-01	1.1719E-01	-3.1477E-04			
16	2.4401E-02	1.0121E+00	2.7450E+00	1.0050E+00	7.7373E-01	6.3346E-02	-1.6889E-04			
17	2.5851E-02	1.0722E+00	2.7450E+00	1.0040E+00	7.8917E-01	-3.3277E-02	8.7076E-05			
18	2.7321E-02	1.1332E+00	2.7543E+00	1.0051E+00	8.0564E-01	1.7293E-02	-4.4502E-05			
19	2.8761E-02	1.1929E+00	2.7618E+00	1.0062E+00	8.1247E-01	3.1723E-02	-8.1198E-05			
20	3.0221E-02	1.2535E+00	2.7671E+00	1.0069E+00	8.1706E-01	-7.7711E-03	1.9821E-05			
21	3.1701E-02	1.3148E+00	2.7733E+00	1.0077E+00	8.2415E-01	3.1654E-04	-8.0247E-07			
22	3.3151E-02	1.3750E+00	2.7687E+00	1.0071E+00	8.2677E-01	6.4964E-03	-1.6386E-05			
23	3.4591E-02	1.4347E+00	2.7691E+00	1.0072E+00	8.2761E-01	-6.8301E-03	1.7213E-05			

X= 0. 0508 UT= 2. 0287E+01 RHOV= 3. 1448E-01 TM= 2. 9338E+02 D= 2. 4250E-02 RHOUREF= 4. 6000E+02

I	Y (M)	Y/D	M	U	RHOV	RHOUREF	TAU	(RHO U)'V'
				UREF			TAUM	RHOV U
1	3. 0500E-03	1. 2577E-01	1. 6667E+00	7. 6785E-01	3. 5207E-01	8. 8550E-01	-3. 2890E-03	
2	4. 2830E-03	1. 7662E-01	1. 7671E+00	8. 1628E-01	3. 7684E-01	9. 6898E-01	-3. 4573E-03	
3	5. 7220E-03	2. 3596E-01	1. 8640E+00	8. 4236E-01	4. 0557E-01	9. 2582E-01	-3. 1604E-03	
4	7. 1730E-03	2. 9579E-01	1. 9310E+00	8. 5888E-01	4. 3608E-01	1. 0348E+00	-3. 3593E-03	
5	8. 5310E-03	3. 5179E-01	1. 9897E+00	8. 7270E-01	4. 6552E-01	8. 9453E-01	-2. 7760E-03	
6	9. 9670E-03	4. 1101E-01	2. 0964E+00	8. 9689E-01	5. 0043E-01	8. 4531E-01	-2. 5348E-03	
7	1. 1421E-02	4. 7097E-01	2. 1462E+00	9. 0702E-01	5. 2898E-01	8. 6071E-01	-2. 4883E-03	
8	1. 2800E-02	5. 2784E-01	2. 2295E+00	9. 2399E-01	5. 5362E-01	6. 2300E-01	-1. 7760E-03	
9	1. 4232E-02	5. 8689E-01	2. 3085E+00	9. 3903E-01	5. 8865E-01	6. 3605E-01	-1. 7585E-03	
10	1. 5680E-02	6. 4660E-01	2. 3523E+00	9. 4638E-01	6. 1979E-01	4. 7882E-01	-1. 2801E-03	
11	1. 7124E-02	7. 0614E-01	2. 4009E+00	9. 5438E-01	6. 4175E-01	5. 4803E-01	-1. 4434E-03	
12	1. 8581E-02	7. 6623E-01	2. 4576E+00	9. 6370E-01	6. 6758E-01	2. 5546E-01	-6. 6194E-04	
13	1. 9956E-02	8. 2293E-01	2. 5032E+00	9. 7052E-01	6. 9477E-01	2. 4520E-01	-6. 2227E-04	
14	2. 1319E-02	8. 7913E-01	2. 5473E+00	9. 7699E-01	7. 1535E-01	2. 5099E-01	-6. 3014E-04	
15	2. 2664E-02	9. 3460E-01	2. 5907E+00	9. 8322E-01	7. 3529E-01	1. 9791E-01	-4. 9224E-04	
16	2. 3950E-02	9. 8763E-01	2. 6325E+00	9. 8901E-01	7. 5986E-01	4. 1006E-02	-1. 0044E-04	
17	2. 5340E-02	1. 0449E+00	2. 6433E+00	9. 8970E-01	7. 7704E-01	5. 8329E-02	-1. 4046E-04	
18	2. 6720E-02	1. 1019E+00	2. 6506E+00	9. 9026E-01	7. 8877E-01	-1. 6352E-02	3. 8929E-05	
19	2. 8180E-02	1. 1621E+00	2. 6600E+00	9. 9165E-01	8. 0121E-01	-5. 8733E-02	1. 3817E-04	
20	2. 9540E-02	1. 2181E+00	2. 6600E+00	9. 9165E-01	8. 0629E-01	-2. 3803E-02	5. 5644E-05	
21	3. 0940E-02	1. 2759E+00	2. 6600E+00	9. 9165E-01	8. 1152E-01	-5. 9942E-03	1. 3922E-05	
22	3. 2320E-02	1. 3328E+00	2. 6600E+00	9. 9165E-01	8. 1576E-01	-8. 9419E-04	2. 0661E-06	

X= 0.0762 UT= 2.0758E+01 RHDW= 2.7698E-01 TW= 2.9286E+02 D= 2.2170E-02 RHDUREF= 4.6000E+02

I	Y (N)	Y/D	M	U UREF	RHDU RHDUREF	TAU TAUM	(RHD U)'V' RHDU U
1	2.8400E-03	1.2810E-01	1.6049E+00	7.6916E-01	3.6359E-01	9.6270E-01	-3.1451E-03
2	4.0800E-03	1.8403E-01	1.7385E+00	8.0888E-01	3.6825E-01	1.0766E+00	-3.4077E-03
3	5.4550E-03	2.4605E-01	1.8224E+00	8.3159E-01	4.2233E-01	1.2792E+00	-3.8165E-03
4	6.8960E-03	3.1105E-01	1.9185E+00	8.5631E-01	4.5379E-01	1.2003E+00	-3.4364E-03
5	8.3423E-03	3.7629E-01	1.9397E+00	8.6090E-01	4.8877E-01	1.2699E+00	-3.4019E-03
6	9.7030E-03	4.3766E-01	2.0134E+00	8.7806E-01	5.1764E-01	1.1212E+00	-2.9102E-03
7	1.1163E-02	5.0352E-01	2.1181E+00	9.0153E-01	5.5434E-01	1.2483E+00	-3.1412E-03
8	1.2613E-02	5.6892E-01	2.2051E+00	9.1942E-01	5.9338E-01	1.0294E+00	-2.5005E-03
9	1.3972E-02	6.3022E-01	2.2797E+00	9.3374E-01	6.2652E-01	7.7843E-01	-1.8436E-03
10	1.5432E-02	6.9608E-01	2.3352E+00	9.4376E-01	6.4918E-01	9.7220E-01	-2.2716E-03
11	1.6878E-02	7.6130E-01	2.3889E+00	9.5289E-01	6.8305E-01	5.9661E-01	-1.3541E-03
12	1.8346E-02	8.2751E-01	2.4626E+00	9.6530E-01	7.1479E-01	4.8049E-01	-1.0736E-03
13	1.9718E-02	8.8940E-01	2.4873E+00	9.6861E-01	7.4523E-01	4.5820E-01	-9.9251E-04
14	2.1158E-02	9.5435E-01	2.5238E+00	9.7376E-01	7.6578E-01	3.4359E-01	-7.3563E-04
15	2.2498E-02	1.0148E+00	2.5564E+00	9.7823E-01	7.9380E-01	1.6174E-01	-3.3874E-04
16	2.3868E-02	1.0766E+00	2.5662E+00	9.7884E-01	8.0540E-01	7.8987E-02	-1.6385E-04
17	2.5338E-02	1.1429E+00	2.5723E+00	9.7885E-01	8.1418E-01	1.6823E-02	-3.4641E-05
18	2.6728E-02	1.2056E+00	2.5727E+00	9.7838E-01	8.1793E-01	1.8488E-02	-3.7921E-05
19	2.8038E-02	1.2647E+00	2.5679E+00	9.7756E-01	8.1855E-01	-1.2446E-02	2.5462E-05
20	2.9408E-02	1.3265E+00	2.5579E+00	9.7593E-01	8.1483E-01	1.1745E-02	-2.4041E-05
21	3.0818E-02	1.3901E+00	2.5540E+00	9.7530E-01	8.1254E-01	-1.3150E-02	2.6950E-05
22	3.2128E-02	1.4492E+00	2.5534E+00	9.7520E-01	8.1335E-01	-1.1111E-02	2.2743E-05
23	3.3428E-02	1.5078E+00	2.5486E+00	9.7437E-01	8.1348E-01	-1.3304E-03	2.7178E-06

X= 0.1016 UT= 1.8030E+01 RHCW= 3.7573E-01 TM= 2.8818E+02 D= 2.2230E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHOU	RHOUREF	TAU	(RHO U)' V'
				UREF			TAUW	RHO U
1	3.0200E-03	1.3585E-01	1.6044E+00	7.6949E-01	3.8304E-01	1.0681E+00	-3.3867E-03	
2	4.2587E-03	1.9157E-01	1.6504E+00	7.8298E-01	4.0515E-01	1.3884E+00	-4.2112E-03	
3	5.6427E-03	2.5383E-01	1.7809E+00	8.2055E-01	4.3936E-01	1.1755E+00	-3.4062E-03	
4	7.0767E-03	3.1834E-01	1.8682E+00	8.4380E-01	4.6900E-01	1.4548E+00	-4.0561E-03	
5	8.5177E-03	3.8316E-01	1.9592E+00	8.6630E-01	5.0618E-01	1.4719E+00	-3.9191E-03	
6	9.9757E-03	4.4875E-01	1.9946E+00	8.7419E-01	5.4444E-01	1.5212E+00	-3.8142E-03	
7	1.1425E-02	5.1393E-01	2.0878E+00	8.9523E-01	5.7768E-01	1.3728E+00	-3.3537E-03	
8	1.2867E-02	5.7880E-01	2.1821E+00	9.1505E-01	6.1317E-01	1.1888E+00	-2.8341E-03	
9	1.4326E-02	6.4443E-01	2.2585E+00	9.3022E-01	6.4608E-01	1.1610E+00	-2.7047E-03	
10	1.5776E-02	7.0966E-01	2.2835E+00	9.3421E-01	6.8248E-01	1.0750E+00	-2.3959E-03	
11	1.7236E-02	7.7534E-01	2.3422E+00	9.4452E-01	7.0993E-01	8.9484E-01	-1.9631E-03	
12	1.8696E-02	8.4101E-01	2.4145E+00	9.5728E-01	7.4551E-01	5.8258E-01	-1.2526E-03	
13	1.9986E-02	8.9904E-01	2.4481E+00	9.6242E-01	7.7515E-01	4.9240E-01	-1.0326E-03	
14	2.1266E-02	9.5662E-01	2.4842E+00	9.6776E-01	7.9980E-01	3.5362E-01	-7.2974E-04	
15	2.2636E-02	1.0183E+00	2.5135E+00	9.7179E-01	8.2383E-01	2.4204E-01	-4.9104E-04	
16	2.4026E-02	1.0808E+00	2.5185E+00	9.7166E-01	8.3746E-01	6.0720E-02	-1.2155E-04	
17	2.5416E-02	1.1433E+00	2.5236E+00	9.7154E-01	8.5014E-01	6.0994E-02	-1.2063E-04	
18	2.6796E-02	1.2054E+00	2.5210E+00	9.7061E-01	8.5849E-01	5.2170E-02	-1.0213E-04	
19	2.8096E-02	1.2639E+00	2.5117E+00	9.6900E-01	8.5577E-01	6.3522E-03	-1.2429E-05	
20	2.9496E-02	1.3268E+00	2.5010E+00	9.6726E-01	8.5257E-01	-2.5498E-02	4.9863E-05	
21	3.0816E-02	1.3862E+00	2.4883E+00	9.6510E-01	8.4394E-01	-1.1390E-02	2.2389E-05	
22	3.2126E-02	1.4452E+00	2.4741E+00	9.6261E-01	8.3609E-01	-1.5726E-03	3.1029E-06	

X= 0.1270 UT= 1.7955E+01 RHDW= 3.9202E-01 TM= 2.9486E+02 D= 2.1260E-02 RHDUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHDU	TAU	(RHD U)'V'
				UREF	RHDUREF	TAUM	RHDU U
1	3.0500E-03	1.4346E-01	1.5355E+00	7.4786E-01	4.0337E-01	1.0828E+00	-3.3235E-03
2	4.2980E-03	2.0216E-01	1.6425E+00	7.8151E-01	4.2582E-01	1.2096E+00	-3.6012E-03
3	5.7456E-03	2.7025E-01	1.7115E+00	8.0164E-01	4.6083E-01	1.7061E+00	-4.7790E-03
4	7.1687E-03	3.3719E-01	1.8142E+00	8.2991E-01	4.9109E-01	1.7597E+00	-4.7660E-03
5	8.6300E-03	4.0593E-01	1.9221E+00	8.5780E-01	5.3202E-01	1.7768E+00	-4.5967E-03
6	1.0076E-02	4.7394E-01	2.0216E+00	8.8159E-01	5.7701E-01	1.3216E+00	-3.2618E-03
7	1.1524E-02	5.4205E-01	2.0304E+00	8.8286E-01	6.0731E-01	1.5244E+00	-3.5886E-03
8	1.2972E-02	6.1016E-01	2.1351E+00	9.0582E-01	6.4952E-01	1.4255E+00	-3.2596E-03
9	1.4435E-02	6.7897E-01	2.1956E+00	9.1806E-01	6.8188E-01	1.1525E+00	-2.5687E-03
10	1.5810E-02	7.4365E-01	2.2745E+00	9.3324E-01	7.2221E-01	1.0775E+00	-2.3381E-03
11	1.7199E-02	8.0898E-01	2.3365E+00	9.4462E-01	7.5880E-01	9.0188E-01	-1.9089E-03
12	1.8559E-02	8.7295E-01	2.3835E+00	9.5264E-01	7.9383E-01	6.0200E-01	-1.2413E-03
13	1.9909E-02	9.3645E-01	2.4184E+00	9.5799E-01	8.2295E-01	5.2877E-01	-1.0673E-03
14	2.1269E-02	1.0004E+00	2.4527E+00	9.6323E-01	8.4775E-01	2.0133E-01	-4.0018E-04
15	2.2659E-02	1.0658E+00	2.4776E+00	9.6674E-01	8.6894E-01	2.2632E-01	-4.4361E-04
16	2.4049E-02	1.1312E+00	2.4826E+00	9.6662E-01	8.7899E-01	2.3872E-01	-4.6395E-04
17	2.5429E-02	1.1961E+00	2.4830E+00	9.6569E-01	8.9268E-01	-7.0786E-03	1.3562E-05
18	2.6809E-02	1.2610E+00	2.4804E+00	9.6476E-01	8.9793E-01	2.5850E-02	-4.9211E-05
19	2.8199E-02	1.3264E+00	2.4754E+00	9.6390E-01	8.9843E-01	-2.5370E-04	4.8175E-07
20	2.9519E-02	1.3885E+00	2.4708E+00	9.6309E-01	8.9697E-01	-1.1340E-02	2.1528E-05
21	3.0829E-02	1.4501E+00	2.4631E+00	9.6168E-01	8.9197E-01	-5.6285E-03	1.0714E-05

X= 0.1524 UT= 1.7050E+01 RHDW= 4.4067E-01 TW= 2.8678E+02 D= 2.3120E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHDU	TAU	(RHD U)'V'
				UREF	RHOUREF	TAUM	RHDU U
1	2.8100E-03	1.2154E-01	1.4819E+00	7.3042E-01	4.3837E-01	1.3295E+00	-3.7671E-03
2	4.0930E-03	1.7703E-01	1.5947E+00	7.6658E-01	4.6032E-01	1.5896E+00	-4.3891E-03
3	5.3790E-03	2.3266E-01	1.6500E+00	7.8330E-01	4.9194E-01	1.8116E+00	-4.7435E-03
4	6.8370E-03	2.9572E-01	1.7403E+00	8.0946E-01	5.3153E-01	1.8969E+00	-4.7094E-03
5	8.2831E-03	3.5827E-01	1.8272E+00	8.3303E-01	5.6600E-01	2.0477E+00	-4.8992E-03
6	9.7160E-03	4.2024E-01	1.9164E+00	8.5580E-01	6.0940E-01	2.0651E+00	-4.7221E-03
7	1.1166E-02	4.8296E-01	2.0103E+00	8.7834E-01	6.6227E-01	2.0280E+00	-4.4061E-03
8	1.2612E-02	5.4550E-01	2.0919E+00	8.9646E-01	7.0028E-01	2.0379E+00	-4.3125E-03
9	1.3917E-02	6.0195E-01	2.1196E+00	9.0196E-01	7.4569E-01	1.9084E+00	-3.8333E-03
10	1.5293E-02	6.6146E-01	2.1933E+00	9.1682E-01	7.8439E-01	1.4761E+00	-2.8990E-03
11	1.6656E-02	7.2042E-01	2.2802E+00	9.3407E-01	8.3596E-01	1.2115E+00	-2.3079E-03
12	1.8007E-02	7.7885E-01	2.3453E+00	9.4588E-01	8.7554E-01	9.5980E-01	-1.7914E-03
13	1.9354E-02	8.3711E-01	2.3929E+00	9.5384E-01	9.1024E-01	7.0314E-01	-1.2871E-03
14	2.0744E-02	8.9723E-01	2.4220E+00	9.5821E-01	9.4356E-01	5.9091E-01	-1.0564E-03
15	2.2054E-02	9.5389E-01	2.4266E+00	9.5810E-01	9.6723E-01	3.3351E-01	-5.8327E-04
16	2.3434E-02	1.0136E+00	2.4501E+00	9.6142E-01	9.8422E-01	1.9222E-01	-3.3371E-04
17	2.4594E-02	1.0638E+00	2.4638E+00	9.6309E-01	9.9900E-01	1.6569E-01	-2.8514E-04
18	2.5974E-02	1.1234E+00	2.4687E+00	9.6296E-01	1.0074E+00	3.5227E-02	-6.0294E-05
19	2.7294E-02	1.1805E+00	2.4601E+00	9.6131E-01	1.0106E+00	1.9066E-02	-3.2425E-05
20	2.8664E-02	1.2398E+00	2.4526E+00	9.5994E-01	1.0092E+00	-3.2195E-03	5.4676E-06
21	2.9964E-02	1.2960E+00	2.4478E+00	9.5910E-01	1.0032E+00	-1.6804E-02	2.8653E-05

X= 0.2032 UT= 1.5598E+01 RHOV= 5.1455E-01 TW= 2.8620E+02 D= 2.2170E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHOV	RHOUREF	TAU	(RHO U)'V'
				UREF			TAUW	RHOV U
1	2.6800E-03	1.2088E-01	1.4572E+00	7.2171E-01	4.9620E-01	9.2163E-01	-2.2465E-03	
2	3.9178E-03	1.7672E-01	1.5221E+00	7.4315E-01	5.1283E-01	1.3195E+00	-3.1486E-03	
3	5.2918E-03	2.3869E-01	1.5766E+00	7.5985E-01	5.4176E-01	1.7900E+00	-4.0930E-03	
4	6.6668E-03	3.0071E-01	1.6633E+00	7.8656E-01	5.6745E-01	1.8418E+00	-4.1030E-03	
5	8.0488E-03	3.6305E-01	1.7060E+00	7.9837E-01	6.0609E-01	2.1537E+00	-4.5466E-03	
6	9.4248E-03	4.2512E-01	1.7822E+00	8.1975E-01	6.6118E-01	2.5708E+00	-5.0831E-03	
7	1.0781E-02	4.8628E-01	1.8542E+00	8.3841E-01	6.9511E-01	2.2864E+00	-4.3985E-03	
8	1.2135E-02	5.4735E-01	1.9975E+00	8.7421E-01	7.3277E-01	2.6853E+00	-5.1364E-03	
9	1.3490E-02	6.0847E-01	2.0782E+00	8.9238E-01	7.8822E-01	2.5350E+00	-4.6397E-03	
10	1.4890E-02	6.7117E-01	2.1482E+00	9.0725E-01	8.3276E-01	2.4550E+00	-4.3649E-03	
11	1.6260E-02	7.3341E-01	2.2236E+00	9.2259E-01	8.8995E-01	2.1157E+00	-3.6217E-03	
12	1.7640E-02	7.9566E-01	2.2660E+00	9.3020E-01	9.5072E-01	1.5128E+00	-2.4657E-03	
13	1.8940E-02	8.5430E-01	2.3042E+00	9.3684E-01	9.9881E-01	1.2995E+00	-2.0476E-03	
14	2.0260E-02	9.1384E-01	2.3429E+00	9.4344E-01	1.0327E+00	8.6141E-01	-1.3335E-03	
15	2.1570E-02	9.7293E-01	2.3711E+00	9.4788E-01	1.0585E+00	8.1178E-01	-1.2407E-03	
16	2.2860E-02	1.0311E+00	2.3815E+00	9.4898E-01	1.0773E+00	4.1196E-01	-6.2167E-04	
17	2.4080E-02	1.0861E+00	2.3771E+00	9.4733E-01	1.0882E+00	2.3652E-01	-3.5307E-04	
18	2.5320E-02	1.1421E+00	2.3770E+00	9.4643E-01	1.0909E+00	9.8284E-02	-1.4648E-04	
19	2.6560E-02	1.1980E+00	2.3732E+00	9.4517E-01	1.0855E+00	1.5143E-02	-2.2661E-05	
20	2.7860E-02	1.2566E+00	2.3639E+00	9.4330E-01	1.0766E+00	-1.6276E-03	2.4471E-06	
21	2.9100E-02	1.3126E+00	2.3508E+00	9.4080E-01	1.0685E+00	-2.1086E-03	3.1784E-06	
22	3.0400E-02	1.3712E+00	2.3402E+00	9.3878E-01	1.0591E+00	-1.2642E-02	1.9149E-05	

X= 0.2286 UT= 1.7213E+01 RHOV= 5.1741E-01 TW= 2.9606E+02 D= 2.4000E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	RHOV	RHOUREF	TAU	(RHO U)'V'
				UREF			TAUW	RHOV U
1	2.1400E-03	8.9167E-02	1.4254E+00	7.1108E-01	4.9087E-01	6.1285E-01	-1.8396E-03	
2	3.3900E-03	1.4125E-01	1.4667E+00	7.2514E-01	5.0750E-01	1.0753E+00	-3.1423E-03	
3	4.8550E-03	2.0229E-01	1.5047E+00	7.3743E-01	5.3134E-01	1.3698E+00	-3.8505E-03	
4	6.2910E-03	2.6212E-01	1.6020E+00	7.6799E-01	5.5407E-01	1.7631E+00	-4.8532E-03	
5	7.7210E-03	3.2171E-01	1.6948E+00	7.9583E-01	5.8836E-01	1.9284E+00	-5.1155E-03	
6	9.1270E-03	3.8029E-01	1.7395E+00	8.0812E-01	6.2307E-01	1.9691E+00	-4.9963E-03	
7	1.0580E-02	4.4083E-01	1.8383E+00	8.3495E-01	6.6870E-01	2.2956E+00	-5.5889E-03	
8	1.2026E-02	5.0108E-01	1.9271E+00	8.5730E-01	7.1147E-01	1.8626E+00	-4.3871E-03	
9	1.3478E-02	5.6158E-01	2.0118E+00	8.7741E-01	7.6186E-01	1.8752E+00	-4.2464E-03	
10	1.4915E-02	6.2144E-01	2.0686E+00	8.8999E-01	8.1535E-01	2.0410E+00	-4.4083E-03	
11	1.6371E-02	6.8212E-01	2.1263E+00	9.0220E-01	8.5557E-01	1.8199E+00	-3.8271E-03	
12	1.7830E-02	7.4292E-01	2.2369E+00	9.2456E-01	9.1313E-01	1.2500E+00	-2.5687E-03	
13	1.9273E-02	8.0304E-01	2.3077E+00	9.3803E-01	9.5735E-01	1.2601E+00	-2.5387E-03	
14	2.0704E-02	8.6267E-01	2.3555E+00	9.4628E-01	1.0156E+00	5.9868E-01	-1.1592E-03	
15	2.2157E-02	9.2321E-01	2.4079E+00	9.5514E-01	1.0636E+00	4.7107E-01	-8.8962E-04	
16	2.3609E-02	9.8371E-01	2.4225E+00	9.5668E-01	1.0982E+00	3.1797E-01	-5.8557E-04	
17	2.5060E-02	1.0442E+00	2.4363E+00	9.5812E-01	1.1253E+00	9.9349E-02	-1.7972E-04	
18	2.6490E-02	1.1037E+00	2.4492E+00	9.5969E-01	1.1466E+00	2.5211E-03	-4.5019E-06	
19	2.7950E-02	1.1646E+00	2.4543E+00	9.6058E-01	1.1607E+00	2.2841E-02	-4.0371E-05	
20	2.9380E-02	1.2242E+00	2.4641E+00	9.6239E-01	1.1717E+00	-7.5013E-04	1.3183E-06	
21	3.0840E-02	1.2850E+00	2.4690E+00	9.6330E-01	1.1768E+00	-1.1766E-02	2.0627E-05	

X= 0.2540 UT= 1.7250E+01 RNOW= 5.1388E-01 TM= 2.8929E+02 D= 2.3310E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U	UREF	RHDU	RHOUREF	TAU	TAUM	(RHO U)'V'	RHDU U
1	2.1400E-03	9.1806E-02	1.4614E+00	7.2390E-01	5.0870E-01	5.0870E-01	9.0400E-01	-2.6243E-03			
2	3.4400E-03	1.4758E-01	1.5608E+00	7.5669E-01	5.2992E-01	5.2992E-01	1.2215E+00	-3.4673E-03			
3	4.8800E-03	2.0935E-01	1.6055E+00	7.7015E-01	5.4849E-01	5.4849E-01	1.4618E+00	-4.0519E-03			
4	6.2600E-03	2.6855E-01	1.6555E+00	7.8495E-01	5.8140E-01	5.8140E-01	1.7795E+00	-4.7124E-03			
5	7.7200E-03	3.3119E-01	1.7185E+00	8.0306E-01	6.0849E-01	6.0849E-01	1.7856E+00	-4.5951E-03			
6	9.1900E-03	3.9425E-01	1.7822E+00	8.2025E-01	6.3531E-01	6.3531E-01	2.2622E+00	-5.6821E-03			
7	1.0630E-02	4.5603E-01	1.8632E+00	8.4177E-01	6.8390E-01	6.8390E-01	1.8305E+00	-4.3786E-03			
8	1.2040E-02	5.1652E-01	1.9451E+00	8.6188E-01	7.3623E-01	7.3623E-01	1.8346E+00	-4.1893E-03			
9	1.3420E-02	5.7572E-01	2.0265E+00	8.8084E-01	7.6771E-01	7.6771E-01	1.9893E+00	-4.4819E-03			
10	1.4660E-02	6.2891E-01	2.0869E+00	8.9430E-01	8.1409E-01	8.1409E-01	2.0083E+00	-4.3605E-03			
11	1.5970E-02	6.8511E-01	2.1559E+00	9.0869E-01	8.6622E-01	8.6622E-01	1.8076E+00	-3.7853E-03			
12	1.7360E-02	7.4474E-01	2.2195E+00	9.2138E-01	9.0696E-01	9.0696E-01	1.7318E+00	-3.5488E-03			
13	1.8760E-02	8.0480E-01	2.2787E+00	9.3258E-01	9.6807E-01	9.6807E-01	1.5540E+00	-2.6605E-03			
14	2.0150E-02	8.6444E-01	2.3446E+00	9.4454E-01	1.0269E+00	1.0269E+00	1.3248E+00	-2.5189E-03			
15	2.1530E-02	9.2364E-01	2.3844E+00	9.5114E-01	1.0670E+00	1.0670E+00	8.3918E-01	-1.5608E-03			
16	2.2930E-02	9.8370E-01	2.4155E+00	9.5591E-01	1.1085E+00	1.1085E+00	3.3587E-01	-6.0920E-04			
17	2.4310E-02	1.0429E+00	2.4410E+00	9.5948E-01	1.1446E+00	1.1446E+00	8.3628E-02	-1.4853E-04			
18	2.5720E-02	1.1034E+00	2.4461E+00	9.5948E-01	1.1558E+00	1.1558E+00	2.5324E-02	-4.4672E-05			
19	2.7140E-02	1.1643E+00	2.4480E+00	9.5948E-01	1.1680E+00	1.1680E+00	2.5853E-02	-4.5179E-05			
20	2.8530E-02	1.2239E+00	2.4469E+00	9.5928E-01	1.1747E+00	1.1747E+00	4.4777E-02	-7.7766E-05			
21	2.9940E-02	1.2844E+00	2.4420E+00	9.5843E-01	1.1753E+00	1.1753E+00	-3.1610E-03	5.4765E-06			

X= 0.2794 UT= 1.8449E+01 RHDW= 4.9285E-01 TW= 2.9528E+02 D= 2.4330E-02 RHOUREF= 4.6000E+02

I	Y (M)	Y/D	M	U UREF	RHOU RHOUREF	TAU TAUM	(RHO U)'V' RHO U
1	2.1400E-03	8.7957E-02	1.5561E+00	7.5604E-01	5.0304E-01	8.6300E-01	-2.8254E-03
2	3.4620E-03	1.4229E-01	1.5702E+00	7.5998E-01	5.1174E-01	8.5465E-01	-2.7608E-03
3	4.9040E-03	2.0156E-01	1.6436E+00	7.8225E-01	5.3449E-01	1.1697E+00	-3.6813E-03
4	6.3676E-03	2.6172E-01	1.7170E+00	8.0378E-01	5.7891E-01	1.5329E+00	-4.5408E-03
5	7.8000E-03	3.2059E-01	1.7449E+00	8.1112E-01	5.9855E-01	1.5839E+00	-4.5766E-03
6	9.2500E-03	3.8019E-01	1.8282E+00	8.3348E-01	6.2478E-01	1.6666E+00	-4.7305E-03
7	1.0714E-02	4.4036E-01	1.8742E+00	8.4510E-01	6.6425E-01	1.7030E+00	-4.6151E-03
8	1.2155E-02	4.9959E-01	1.9663E+00	8.6756E-01	7.0372E-01	1.7737E+00	-4.6795E-03
9	1.3589E-02	5.5853E-01	2.0628E+00	8.8974E-01	7.5783E-01	1.7447E+00	-4.4221E-03
10	1.5043E-02	6.1829E-01	2.1386E+00	9.0625E-01	8.0105E-01	1.6390E+00	-4.0403E-03
11	1.6492E-02	6.7785E-01	2.1916E+00	9.1677E-01	8.4774E-01	1.6544E+00	-3.9333E-03
12	1.7939E-02	7.3732E-01	2.2494E+00	9.2772E-01	8.9027E-01	1.2888E+00	-2.9844E-03
13	1.9379E-02	7.9651E-01	2.3166E+00	9.4008E-01	9.3852E-01	8.9912E-01	-2.0283E-03
14	2.0839E-02	8.5651E-01	2.3820E+00	9.5164E-01	9.8580E-01	8.7693E-01	-1.9331E-03
15	2.2269E-02	9.1529E-01	2.4238E+00	9.5827E-01	1.0301E+00	6.1988E-01	-1.3305E-03
16	2.3719E-02	9.7489E-01	2.4606E+00	9.6392E-01	1.0654E+00	2.7864E-01	-5.8724E-04
17	2.5199E-02	1.0357E+00	2.4822E+00	9.6680E-01	1.1023E+00	4.3627E-01	-8.9708E-04
18	2.6629E-02	1.0945E+00	2.4925E+00	9.6788E-01	1.1283E+00	1.0717E-01	-2.1633E-04
19	2.8099E-02	1.1549E+00	2.5036E+00	9.6969E-01	1.1417E+00	9.9690E-02	-1.9975E-04
20	2.9559E-02	1.2149E+00	2.5090E+00	9.6991E-01	1.1541E+00	4.7238E-02	-9.3692E-05
21	3.0919E-02	1.2708E+00	2.5074E+00	9.7032E-01	1.1615E+00	-1.6226E-03	3.2005E-06

X= 0.3175

UT= 1.8227E+01

RHDW= 4.9376E-01

TW= 2.9544E+02

D= 2.6520E-02

RHDUREF= 4.6000E+02

I	Y (M)	Y/D	M	U UREF	RHDU RHDUREF	TAU TAUM	(RHD U)'V' RHDU U
1	2.1400E-03	8.0694E-02	1.5174E+00	7.4502E-01	4.9804E-01	6.0825E-01	-1.9477E-03
2	3.5743E-03	1.3478E-01	1.6090E+00	7.7415E-01	5.1898E-01	8.7755E-01	-2.7499E-03
3	5.0423E-03	1.7013E-01	1.6657E+00	7.9101E-01	5.4924E-01	1.2146E+00	-3.6481E-03
4	6.4223E-03	2.4217E-01	1.6900E+00	7.9747E-01	5.6716E-01	1.2034E+00	-3.5256E-03
5	7.7913E-03	2.9379E-01	1.7496E+00	8.1431E-01	5.9577E-01	1.4065E+00	-3.9888E-03
6	9.1563E-03	3.4526E-01	1.8108E+00	8.3082E-01	6.2275E-01	1.5414E+00	-4.2594E-03
7	1.0602E-02	3.9979E-01	1.8656E+00	8.4480E-01	6.5873E-01	1.6660E+00	-4.4294E-03
8	1.1983E-02	4.5186E-01	1.9093E+00	8.5531E-01	6.7937E-01	1.5734E+00	-4.1169E-03
9	1.3363E-02	5.0390E-01	1.9702E+00	8.7477E-01	7.1802E-01	1.9000E+00	-4.8351E-03
10	1.4803E-02	5.5819E-01	2.0620E+00	8.9110E-01	7.7003E-01	1.6702E+00	-4.0660E-03
11	1.6253E-02	6.1287E-01	2.1315E+00	9.0579E-01	8.1530E-01	1.7303E+00	-4.0826E-03
12	1.7693E-02	6.6717E-01	2.1962E+00	9.1890E-01	8.7460E-01	1.5468E+00	-3.0362E-03
13	1.9153E-02	7.2222E-01	2.2635E+00	9.3187E-01	9.1131E-01	1.1601E+00	-2.5765E-03
14	2.0613E-02	7.7727E-01	2.3356E+00	9.4514E-01	9.4910E-01	8.4925E-01	-1.8632E-03
15	2.2053E-02	8.3157E-01	2.3712E+00	9.5096E-01	9.9063E-01	5.9233E-01	-1.2635E-03
16	2.3513E-02	8.8663E-01	2.4048E+00	9.5616E-01	1.0206E+00	3.9624E-01	-8.3209E-04
17	2.4973E-02	9.4168E-01	2.4302E+00	9.5983E-01	1.0588E+00	2.7701E-01	-5.6682E-04
18	2.6423E-02	9.9635E-01	2.4403E+00	9.6097E-01	1.0874E+00	1.4163E-01	-2.8351E-04
19	2.7893E-02	1.0518E+00	2.4507E+00	9.6273E-01	1.1077E+00	1.6826E-01	-3.3202E-04
20	2.9353E-02	1.1068E+00	2.4580E+00	9.6400E-01	1.1137E+00	1.6839E-01	-3.3144E-04