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SURFACE FITTING OF THE EQUATION OF STATE
OF LIQUID AND GASEOUS NORMAL HYDROGEN

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LOS ALAMOS SCIENTIFIC LABORATORY
OF THE UNIVERSITY OF CALIFORNIA LOS ALAMOS NEW MEXICO

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SURFACE FITTING OF THE EQUATION OF STATE
OF LIQUID AND GASEOUS NORMAL HYDROGEN

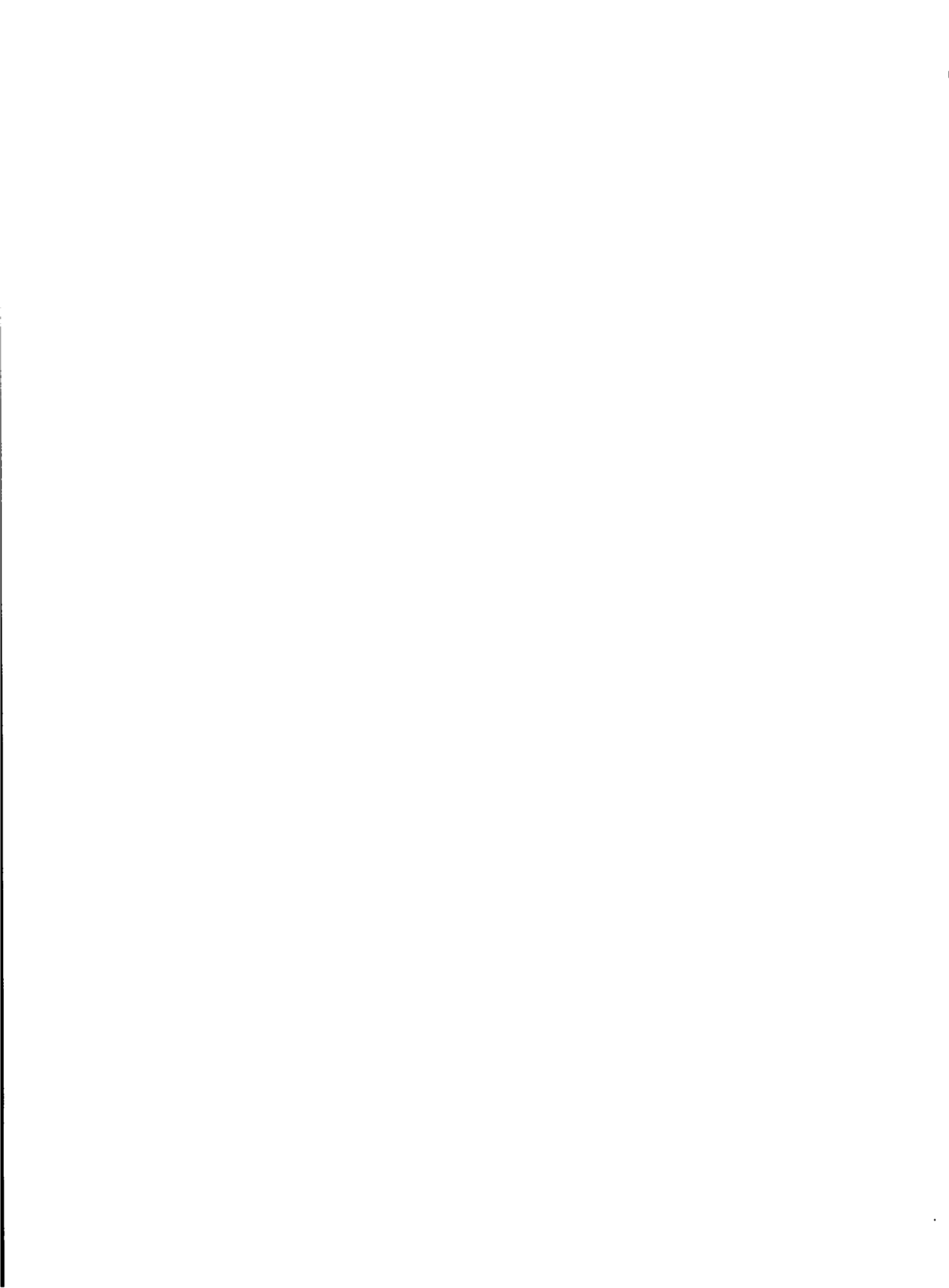
by

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Contract W-7405-ENG. 36 with the U. S. Atomic Energy Commission

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ABSTRACT

This report describes various computational techniques employed to describe the equation of state of normal hydrogen data. Using the following functional form, the differences between the observed and calculated values are in general within 5%:

$$\text{Pressure} = P_1 V^{P_2} [1 - (P_3/V)^{P_4}] + P_5 T / (V - P_6 + P_7/V)$$

where P_1, P_2, \dots, P_7 are the resulting parameters, V = volume, T = temperature.



1. Introduction

In the fall of 1959, the Statistical Section of the Theoretical Division assisted in fitting a multiple regression surface to smoothed hydrogen data. The result of this endeavor appeared in LAMS-2357.* There were several reasons to continue the work: 1) foremost, raw data rather than smoothed data should be used; 2) the surface fit in LAMS-2357 was divided into several regions; the divisions were for the convenience of the equations, rather than natural data divisions; 3) since there were divisions, discontinuities existed at the boundaries of the divisions; and 4) the results were not as good as desired.

2. Representation of Data

The raw data represent an amalgamation of information from some six different sources (see Table 1). There are 4 values or variables involved: temperature (T) in $^{\circ}\text{K}$, pressure (P) in atm., volume (V) in cc/m, and compressibility (Z). It should be noted that $Z = f(T, V)$. It should also be noted that at various times different combinations of the variables were used in attempting to solve the problem.

* Sherman, Vogel, Moore, Schuch, and Goldman, Los Alamos Scientific Laboratory Report, LAMS-2357, September 25, 1959.

3. Two-Dimensional Approach

The approach used primarily was the so-called two-dimensional (2-D) approach, suggested by W. E. Keller of Group CMF-9 of this Laboratory. The isotherm runs illustrate the technique. Suppose we hold temperature fixed; then there are several data points for this temperature. Then fit (in two-dimensions) some function, say $Z = A P + B P^2 + C P^3$ where A, B, and C are constants determined by a least squares fit. Since this can be done for several temperatures, we may write $Z = A(T) P + B(T) P^2 + C(T) P^3$. Now if a "nice" functional relation can be found for A(T), B(T), and C(T) in terms of T, the problem is solved, for an ensuing function $Z = f(P, T)$ follows.

4. Results of the Two-Dimensional Approach

A. Isotherm Runs. In 2-D, the results were quite good for the various temperatures. The expression $Z = e^{a(T)} P^2 + b(T) P + c(T) P^2 + d(T) P^3 + f(T) P^4$ fits the data extremely well. Unfortunately, the coefficients a(T), b(T), c(T), d(T), and f(T) were not well behaved. Thus, an attempt to extend this into 3-D was rather unsuccessful, resulting in some errors of magnitude of 25%.

B. Isochore Runs. Again, the 2-D fits were rather good. In fact, they were better than the isotherm runs. (It should be noted that the T,P surface is much better to work with than the Z,P surface). The equation used here for the 2-D runs was $P = A(V) + B(V) T + C(V) T^2$. Here the coefficients A(V), B(V), and C(V)

were quite well behaved, allowing a smoother transition into 3-D.

The evolving equation is as follows:

$$\begin{aligned} \text{Pressure} = & P_1 + P_2/V + P_3/V^2 + P_4/V^3 + P_5/V^4 + P_6T + P_7T/V \\ & + P_8T/V^2 + P_9T/V^3 + P_{10}T/V^4 + P_{11}T^2 + P_{12}T^2/V \\ & + P_{13}T^2/V^2 + P_{14}T^2/V^3 + P_{15}T^2/V^4, \end{aligned} \quad (1)$$

where P_1, P_2, \dots, P_{15} are the resulting parameters.

It should be noted that this equation is very similar to that used in LAMS-2357. The fundamental difference in approach is the division of data. Here the data have been divided into 2 classes: class 1 = GAS plus FLUID, class 2 = LIQUID. Obviously, this represents a "logical" data division. Further, the program was rewritten to minimize the percentage of error. Table 2 shows the percentage deviation of equation (1). Also IBM Listing 1 enumerates the fitted values.

5. Boulder Equation

From a writeup by R. D. Goodwin, CEL, National Bureau of Standards, Boulder, Colorado, entitled Approximate Wide-Range Equation of State for Hydrogen, the following parameters were determined by the method of least squares:

$$\text{Pressure} = P_1 V^{P_2} [1 - (P_3/V)^{P_4}] + P_5 T / (V - P_6 + P_7/V), \quad (2)$$

where P_1, P_2, \dots, P_7 are the resulting parameters.

Again, the data were divided into the forementioned two groups. The results for the GAS-FLUID data were very gratifying; maximum error was less than 5%. See Table 2 for an exact percentage deviation for these data. Also see IBM Listing 2 for a point-by-point enumeration of the results. Unfortunately, this function does not seem to fit LIQUID data alone. A further run was made fitting ALL data (see Listing 3 and Table 2). It should be noted that the expression does fit all data relatively well; the large percentage errors here are attributed to the liquid area. For the present, this represents the best run.

6. Explanation of Table 3 and the IBM Listings

Table 3 enumerates the parameter values to which the least squares equations converged for the three runs made. A brief explanation of the IBM listings follows: The final values and standard deviations of the parameters are given on the 5th page of Listing 1 and the 3rd pages of Listings 2 and 3. Then the data points, the corresponding points on the fitted curve, the deviations between fitted and actual dependent variables, etc. are listed. The first independent variable is the volume, the second, the temperature. For a more detailed explanation of the listings and the computational least squares iterative procedure, refer to LA-2367, The

Solution of the General Least Squares Problem with Special Reference to High-Speed Computers, October 15, 1959, by R. H. Moore and R. K. Zeigler of this Laboratory.

7. Summary

The Boulder equation does an adequate over-all job, and does particularly well for the bulk of the data, namely the GAS-FLUID data. It should be noted that most of the points with maximum deviation were near the "critical point".

TABLE 1
DATA SOURCE LIST

The following were the data sources used for this work. References are for Normal Hydrogen.

1. D. White, A. S. Friedman, and H. L. Johnston, J. Am. Chem. Soc. 72, 3927 (1950). [P vs T along saturated vapor curve from 15^oK to critical point (33.2^oK)]
2. E. Mathias, C. A. Crommelin and H. Kamerlingh Onnes, Comm. Phys. Lab. Univ. Leiden 154b (1921) as corrected by H. W. Woodley, R. B. Scott, and F. G. Brickwedde, NBS Research Paper 1932 (1948). (Density of saturated vapor from 14^oK to critical point).
3. H. L. Johnston, W. E. Keller, and A. S. Friedman, J. Am. Chem. Soc. 76, 1482 (1954). (PVT of liquid from 20^oK to critical point, up to 100 atm.).
4. H. L. Johnston, D. White, H. Wirth, J. Swanson, L. Jensen, and A. S. Friedman, Wright Field, ADC TR-264-25 (1953). (PVT of gas from critical point to 300^oK from 20 atm to 100 atm.).
5. D. White, A. S. Friedman, and H. L. Johnston, TR-264-12 (1953). (PVT of gas from 20^oK to 300^oK, P = 0 to 20 atm.).

TABLE 2

PERCENTAGE DEVIATION VERSUS NUMBER OF POINTS

$\left[\frac{\% \text{ DEVIATION} = \text{Y INPUT} - \text{Y CALCULATED}}{\text{Y INPUT}} \right]$	EQUATION (1) LISTING 1	EQUATION (2) LISTING 2 (BOULDER--GAS & FLUID)	EQUATION (2) LISTING 3 (BOULDER--ALL DATA)
%	No./Points	No./Points	No./Points
0-5	389	410	480
6-10	17	1	11
11-15	<u>5</u>	<u>0</u>	<u>8</u>
Σ	411	411	499

TABLE 3

CONSTANTS FOR THE 2 EQUATIONS

PARAMETERS	EQUATION 1	EQUATION 2 (GAS AND FLUID)	EQUATION 2 (ALL DATA)
P ₁	1.6225750 -02	-1.3306634 +05	-1.3399880 +05
P ₂	-8.5855252 +01	-1.8797614 +00	-1.8804179 +00
P ₃	-2.1657370 +05	2.3480000 +01	2.3480000 +01
P ₄	-2.6866468 +06	6.0000000 +00	6.0000000 +00
P ₅	1.2534236 +08	8.2057000 +01(FIXED)	8.2057000 +01(FIXED)
P ₆	5.3119892 -04	2.5960761 +01	2.6300132 +01
P ₇	7.9625106 +01	2.0884674 +02	2.1986151 +02
P ₈	3.3053310 +03		
P ₉	-2.9637449 +04		
P ₁₀	-2.5607681 +06		
P ₁₁	-2.4704639 -06		
P ₁₂	1.2303445 -02		
P ₁₃	-6.0949240 +00		
P ₁₄	3.7685624 +02		
P ₁₅	-1.5760786 +04		

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3	-2.1657358E 05	-2.1657358E 05	-2.1657360E 05	-2.5965255E-02
4	-2.6866588E 06	-2.6866588E 06	-2.6866570E 06	1.7940998E 00
5	1.2534264E 08	1.2534264E 08	1.2534263E 08	-8.8259883E 00
6	5.3119761E-04	5.3119761E-04	5.3119805E-04	4.4653614E-10
7	7.9625112E 01	7.9625112E 01	7.9625112E 01	-3.5381380E-07
8	3.3053268E 03	3.3053268E 03	3.3053275E 03	6.3981647E-04
9	-2.9637043E 04	-2.9637043E 04	-2.9637085E 04	-4.2443430E-02
10	2.5607587E 06	2.5607587E 06	2.5607581E 06	-6.0364655E-01
11	-2.4704587E-06	-2.4704587E-06	-2.4704599E-06	-1.2475836E-12
12	1.2303410E-02	1.2303410E-02	1.2303415E-02	5.3114536E-09
13	-6.0949033E 00	-6.0949033E 00	-6.0949040E 00	-6.9856216E-07
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2	3.0997348E-02 1.0332772E 00 5.7683058E 01	5.2538168E-05 1.9832221E-03 9.1835568E-02	7.1357861E-07 2.7420769E-05 1.1317669E-03	1.5926052E-08 6.0294650E-07 2.3841951E-05	3.9618759E-10 1.4864223E-08 5.7660555E-07	-7.5095130E-10
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4	7.1357861E-07 2.7420770E-05 1.1317669E-03	1.5926052E-08 6.0294650E-07 2.3841951E-05	3.9618759E-10 1.4864223E-08 5.7660555E-07	1.0410913E-11 3.8854180E-10 1.4915514E-08	2.8497055E-13 1.0599440E-11 4.0422746E-10	-3.5765683E-13
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10	6.0294650E-07 2.3841951E-05 1.0251521E-03	1.4864223E-08 5.7660556E-07 2.3673562E-05	3.8854180E-10 1.4915514E-08 5.9856427E-07	1.0599440E-11 4.0422745E-10 1.6003536E-08	2.9959123E-13 1.1371842E-11 4.4606530E-10	-3.7483059E-13
11	2.2704113E 05 3.5844156E 07 8.2165807E 09	5.7683058E 01 7.1360038E 03 1.4659846E 06	9.1835570E-02 6.7060015E 00 9.2957145E 02	1.1317669E-03 5.5029306E-02 3.9359491E 00	2.3841951E-05 1.0251521E-03 5.3164789E-02	-2.2181273E-03
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14	1.1317669E-03 5.5029306E-02 3.9359491E 00	2.3841951E-05 1.0251521E-03 5.3164788E-02	5.7660555E-07 2.3673561E-05 1.0835617E-03	1.4915514E-08 5.9856427E-07 2.5891939E-05	4.0422745E-10 1.6003536E-08 6.7159081E-07	-5.4010485E-10

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	1.7980905E-05	-5.3783302E-02	1.3483367E 01	-5.4749605E 02	-2.9873888E 03	
2	-5.0968103E 02	2.4730389E 06	-7.8589017E 08	5.4172668E 10	-9.6139321E 11	
	1.5671957E 01	-7.8921502E 04	2.4308742E 07	-1.6285459E 09	2.7067214E 10	
	-5.4603438E-02	2.8544401E 02	-8.5483229E 04	4.7423007E 06	-3.5085166E 07	
3	1.4521605E 05	-7.8652903E 08	3.7704414E 11	-3.0221670E 13	5.9817383E 14	
	-4.4890631E 03	2.5227952E 07	-1.1652264E 10	9.3165309E 11	-1.8008132E 13	
	1.6521982E 01	-9.8743244E 04	4.7739380E 07	-3.7338731E 09	6.1024849E 10	
4	-9.4095882E 06	5.4258164E 10	-3.0235657E 13	2.9033017E 15	-6.6864157E 16	
	2.9930067E 05	-1.8073426E 09	9.8813069E 11	-9.7408987E 13	2.2741009E 15	
	-1.2287477E 03	8.1503118E 06	-4.9698381E 09	5.4091401E 11	-1.3129795E 13	
5	1.5720859E 08	-9.6381819E 11	5.9875976E 14	-6.6889607E 16	1.8306312E 18	
	-5.0624493E 06	3.3162928E 10	-2.0673929E 13	2.4249815E 15	-6.9245118E 16	
	2.4247611E 04	-1.7818610E 08	1.2783093E 11	-1.7190791E 13	5.4138497E 14	
6	-5.2850305E-03	1.5658356E 01	-4.4780980E 03	2.9812131E 05	-5.0328819E 06	
	1.9709098E-04	-5.6442578E-01	1.5210614E 02	-9.5602051E 03	1.4503087E 05	
	-6.9901983E-07	1.9948443E-03	-4.9226663E-01	2.1351163E 01	7.1615865E 01	
7	1.5845747E 01	-7.8919843E 04	2.5205680E 07	-1.8044055E 09	3.3080307E 10	
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9	2.7078707E 05	-1.6316970E 09	9.3228146E 11	-9.7424171E 13	2.4244721E 15	
	-9.6016246E 03	5.9856834E 07	-3.3365866E 10	3.5659720E 12	-9.0500327E 13	
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	1.4610076E 05	-1.0377565E 09	6.9070504E 11	-9.0537279E 13	2.8533082E 15	
	-8.5054287E 02	6.7315748E 06	-5.1776469E 09	7.6052288E 11	-2.5899703E 13	
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	1.9974806E-03	-1.0862833E 01	3.6781728E 03	-3.0506230E 05	6.7218572E 06
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14	-5.5545440E 02	4.7676533E 06	-3.7418355E 09	5.4142694E 11	-1.7197743E 13
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	3.9478587E 00	-4.4927824E 04	4.4738938E 07	-7.8371351E 09	3.0305251E 11

2 ITERATIONS

LISTING NUMBER ONE (CONTINUED)

2 INO REC FUNCTION

THIS PROBLEM CONTAINS 411 DATA POINTS, 2 INDEPENDENT VARIABLE(S), AND 15 PARAMETER(S) (0 OF THEM HELD CONSTANT).
 THE WEIGHTED VARIANCE IS 6.3765333E-04 AND THE UNWEIGHTED SUM OF SQUARES OF THE DEVIATIONS IS 2.4006791E 03.

K	GUESSTIMATE OF K-TH PARAMETER	FINAL VALUE OF K-TH PARAMETER	S.D. OF K-TH PARAMETER	EXACT LEAST SQUARES FITTED FUNCTION	EQUATIONS INPUT DATA
1	1.6225788E-02	1.6225750E-02	1.0445783E-02	7.8554155E 01	7.8554157E 01
2	-8.5855473E 01	-8.5855252E 01	3.9710722E 01	1.1159975E-01	1.1159974E-01
3	-2.1657358E 05	-2.1657370E 05	1.5505594E 04	1.3133351E-03	1.3133350E-03
4	-2.6866588E 06	-2.6866468E 06	1.3606248E 06	2.9397866E-05	2.9397866E-05
5	1.2534264E 08	1.2534236E 08	3.4165890E 07	7.6835327E-07	7.6835334E-07
6	5.3119761E-04	5.3119892E-04	3.5450771E-04	4.5446177E 03	4.5446177E 03
7	7.9625112E 01	7.9625106E 01	1.3464696E 00	5.7476523E 00	5.7476527E 00
8	3.3053268E 03	3.3053310E 03	5.0147401E 02	5.9838791E-02	5.9838791E-02
9	-2.9637043E 04	-2.9637449E 04	4.7684944E 04	1.2536635E-03	1.2536636E-03
10	2.5607587E 06	2.5607681E 06	1.3488593E 06	3.1667466E-05	3.1667467E-05
11	-2.4704587E-06	-2.4704639E-06	1.3422026E-06	5.8191292E 05	5.8191293E 05
12	1.2303410E-02	1.2303445E-02	5.8228751E-03	4.9282861E 02	4.9282862E 02
13	-6.0949033E 00	-6.0949240E 00	2.9013034E 00	3.3884597E 00	3.3884598E 00
14	3.7685401E 02	3.7685624E 02	3.8846424E 02	6.0048241E-02	6.0048235E-02
15	-1.5760733E 04	-1.5760786E 04	1.3901167E 04	1.4109084E-03	1.4109084E-03

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MATRIX OF CORRELATIONS BETWEEN FREE PARAMETERS

1	1.000	-0.783	0.571	-0.421	0.279	-0.910	0.718	-0.531	0.345	-0.183	0.818	-0.564	0.284	-0.086
	-0.013													
2	-0.783	1.000	-0.814	0.639	-0.452	0.710	-0.941	0.778	-0.548	0.322	-0.653	0.787	-0.473	0.196
	-0.041													
3	0.572	-0.815	1.000	-0.913	0.720	-0.521	0.771	-0.956	0.803	-0.549	0.506	-0.697	0.677	-0.395
	0.181													
4	-0.422	0.640	-0.914	1.000	-0.917	0.396	-0.629	0.923	-0.957	0.790	-0.429	0.656	-0.803	0.653
	-0.443													
5	0.281	-0.453	0.721	-0.918	1.000	-0.267	0.460	-0.769	0.949	-0.958	0.337	-0.571	0.822	-0.826
	0.727													
6	-0.910	0.709	-0.519	0.394	-0.265	1.000	-0.754	0.546	-0.361	0.193	-0.937	0.616	-0.305	0.099
	0.009													
7	0.718	-0.941	0.770	-0.628	0.459	-0.755	1.000	-0.816	0.593	-0.363	0.728	-0.883	0.538	-0.248
	0.076													
8	-0.532	0.779	-0.956	0.923	-0.769	0.547	-0.817	1.000	-0.889	0.650	-0.569	0.804	-0.800	0.528
	-0.295													
9	0.347	-0.549	0.804	-0.957	0.949	-0.362	0.594	-0.890	1.000	-0.897	0.438	-0.701	0.903	-0.812

LISTING NUMBER ONE (CONTINUED)

	0.618													
10	-0.184 -0.881	0.323	-0.550	0.791	-0.958	0.125	-0.364	0.651	-0.892	1.001	-0.300	0.547	-0.844	0.926
11	0.818 0.134	-0.653	0.505	-0.428	0.536	-0.937	0.728	-0.568	0.436	-0.292	1.000	-0.723	0.454	-0.257
12	-0.565 -0.353	0.787	-0.697	0.655	-0.570	0.617	-0.883	0.803	-0.701	0.546	-0.724	1.000	-0.779	0.537
13	0.285 0.707	-0.474	0.677	-0.803	0.822	-0.307	0.539	-0.801	0.903	-0.843	0.455	-0.780	1.000	-0.892
14	-0.087 -0.925	0.197	-0.396	0.653	-0.826	0.100	-0.249	0.529	-0.812	0.926	-0.258	0.538	-0.892	1.000
15	-0.012 1.000	-0.041	0.181	-0.443	0.727	0.008	0.077	-0.296	0.619	-0.881	0.135	-0.354	0.707	-0.925

LISTING NUMBER ONE (CONTINUED)

I	WEIGHT		INDEPENDENT VARIABLE(S)	DEPENDENT VARIABLE	CALCULATED FUNCTION	DEVIATION	STO. DEV. OF PREDICTED MEAN
1	2.2856052E 01	1 2	7.9552519E 03 2.0590000E 01	2.0917000E-01	2.1967328E-01	-1.0503281E-02	3.6134278E-03
2	4.7185096E 00	1 2	3.5215920E 03 2.0590000E 01	4.6036000E-01	4.5651366E-01	3.8463399E-03	3.0746042E-03
3	2.2418323E 00	1 2	2.3806670E 03 2.0590000E 01	6.6788000E-01	6.5402002E-01	1.3859972E-02	3.8704685E-03
4	1.6718715E 00	1 2	2.0339030E 03 2.0590000E 01	7.7339000E-01	7.5565531E-01	1.7734684E-02	4.5174518E-03
5	1.5527413E 00	1 2	1.9523740E 03 2.0590000E 01	8.0250999E-01	7.8449935E-01	1.8010639E-02	4.7156324E-03
6	1.0101973E 00	1 2	1.5434100E 03 2.0590000E 01	9.9493999E-01	9.7185974E-01	2.3080252E-02	6.0798867E-03
7	5.9572644E 00	1 2	4.4021379E 03 2.2580000E 01	4.0971000E-01	4.0978423E-01	-7.4230134E-05	2.8927875E-03
8	2.1545110E 00	1 2	2.5908580E 03 2.2580000E 01	6.8127999E-01	6.6841118E-01	1.2868807E-02	3.3303457E-03
9	9.9295744E-01	1 2	1.7135340E 03 2.2580000E 01	1.0035400E 00	9.7976469E-01	2.3775302E-02	4.9740842E-03
10	7.2926642E-01	1 2	1.4477370E 03 2.2580000E 01	1.1710000E 00	1.1436774E 00	2.7322546E-02	5.9702114E-03
11	4.2007269E-01	1 2	1.0626740E 03 2.2580000E 01	1.5429000E 00	1.5130275E 00	2.9872447E-02	8.2347417E-03
12	3.5762145E-01	1 2	9.6645099E 02 2.2580000E 01	1.6722000E 00	1.6463676E 00	2.5832430E-02	9.0393901E-03
13	1.3849444E 01	1 2	7.3811919E 03 2.4650000E 01	2.6871000E-01	2.8055792E-01	-1.1847921E-02	3.2104681E-03
14	9.8224014E-01	1 2	1.8889990E 03 2.4650000E 01	1.0090000E 00	9.8601615E-01	2.2983827E-02	4.1404933E-03
15	4.9046093E-01	1 2	1.2939980E 03 2.4650000E 01	1.4279000E 00	1.3997628E 00	2.8137192E-02	6.2081155E-03
16	4.7483799E-01	1 2	1.2781840E 03 2.4650000E 01	1.4512000E 00	1.4156639E 00	3.5536095E-02	6.2892453E-03
17	2.2103703E-01	1 2	8.2778599E 02 2.4650000E 01	2.1270000E 00	2.0964270E 00	3.0572981E-02	9.6917967E-03
18	1.7788400E-01	1 2	7.2332299E 02 2.4650000E 01	2.3710000E 00	2.3599239E 00	1.1076123E-02	1.0979849E-02
19	1.4450749E-01	1 2	6.3840899E 02 2.4650000E 01	2.6306000E 00	2.6277629E 00	2.8370619E-03	1.2303997E-02
20	3.7784499E 00	1	4.1698899E 03	5.1445000E-01	5.1332267E-01	1.1273250E-03	2.6729537E-03

LISTING NUMBER ONE (CONTINUED)

			2	2.6750000E	01						
21	1.0404258E	00	1	2.1354980E	03	9.8038000E-01	9.6061904E-01	1.9760951E-02		3.4556034E-03	
			2	2.6750000E	01						
22	1.0080280E	00	1	2.0952600E	03	9.9600999E-01	9.7793525E-01	1.8074736E-02		3.5172759E-03	
			2	2.6750000E	01						
23	2.4097684E-01		1	9.7246100E	02	2.0371000E	00	1.9963088E	00	4.0791139E-02	7.7993641E-03
			2	2.6750000E	01						
24	1.1501865E-01		1	6.3053699E	02	2.9486000E	00	2.9395343E	00	9.0657175E-03	1.1703996E-02
			2	2.6750000E	01						
25	8.4421678E-02		1	5.1956899E	02	3.4417000E	00	3.4685940E	00	-2.6893973E-02	1.3992957E-02
			2	2.6750000E	01						
26	6.1735217E-02		1	4.2182000E	02	4.0247000E	00	4.1137204E	00	-8.9020371E-02	1.7235336E-02
			2	2.6750000E	01						
27	2.9116924E	00	1	3.9449550E	03	5.8604000E-01	5.8405135E-01	1.9886494E-03		2.6367886E-03	
			2	2.8830000E	01						
28	1.0161736E	00	1	2.2902990E	03	9.9201000E-01	9.7442756E-01	1.7582431E-02		3.1576540E-03	
			2	2.8830000E	01						
29	9.2420073E-01		1	2.1765040E	03	1.0402000E	00	1.0224779E	00	1.7722085E-02	3.2939750E-03
			2	2.8830000E	01						
30	2.7503611E-01		1	1.1378750E	03	1.9068000E	00	1.8807960E	00	2.6003957E-02	6.3984988E-03
			2	2.8830000E	01						
31	1.2246081E-01		1	7.2875800E	02	2.8576000E	00	2.8301323E	00	2.7467698E-02	9.8626977E-03
			2	2.8830000E	01						
32	5.8223409E-02		1	4.6615800E	02	4.1443000E	00	4.1823848E	00	-3.8084865E-02	1.4828780E-02
			2	2.8830000E	01						
33	4.0733126E-02		1	3.6903600E	02	4.9548000E	00	5.0631240E	00	-1.0832405E-01	1.8880833E-02
			2	2.8830000E	01						
34	3.2937968E-02		1	3.1608000E	02	5.5100000E	00	5.7046812E	00	-1.9468123E-01	2.2748519E-02
			2	2.8830000E	01						
35	2.7269131E-02		1	2.7248700E	02	6.0556999E	00	6.3490751E	00	-2.9337513E-01	2.7820968E-02
			2	2.8830000E	01						
36	4.0639569E	00	1	5.0162280E	03	4.9604999E-01	5.0053311E-01	-4.4831149E-03		2.7999368E-03	
			2	3.0860000E	01						
37	1.0273485E	00	1	2.4823640E	03	9.8659999E-01	9.7053343E-01	1.6066566E-02		2.9838841E-03	
			2	3.0860000E	01						
38	1.0088990E	00	1	2.4563570E	03	9.9557999E-01	9.8027521E-01	1.5304774E-02		3.0042717E-03	
			2	3.0860000E	01						
39	2.5730634E-01		1	1.2004670E	03	1.9714000E	00	1.9300916E	00	4.1308418E-02	5.9851038E-03
			2	3.0860000E	01						
40	1.0957899E-01		1	7.5080299E	02	3.0209000E	00	2.9837156E	00	3.7184387E-02	9.4725914E-03
			2	3.0860000E	01						
41	4.5621997E-02		1	4.5010500E	02	4.6817999E	00	4.6996783E	00	-1.7878354E-02	1.4927700E-02

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		2	3.0860000E 01						
42	4.3475207E-02	1	4.3688499E 02	4.7959999E 00	4.8206439E 00	-2.4643958E-02		1.5345861E-02	
		2	3.0860000E 01						
43	2.7025806E-02	1	3.1907499E 02	6.0829000E 00	6.2351075E 00	-1.5220749E-01		2.1298257E-02	
		2	3.0860000E 01						
44	1.7929978E-02	1	2.3649900E 02	7.4681000E 00	7.7700353E 00	-3.0193532E-01		3.1742932E-02	
		2	3.0860000E 01						
45	1.5740085E-02	1	2.0894000E 02	7.9707000E 00	8.4224166E 00	-4.5171660E-01		3.8251060E-02	
		2	3.0860000E 01						
46	1.3987891E-02	1	1.8564900E 02	8.4552000E 00	9.0268499E 00	-5.7164991E-01		4.5950921E-02	
		2	3.0860000E 01						
47	1.0274526E 00	1	2.6709240E 03	9.8654999E-01	9.7156092E-01	1.4989071E-02		2.9503755E-03	
		2	3.3000000E 01						
48	1.1387266E-01	1	8.3572899E 02	2.9634000E 00	2.9198877E 00	4.3512315E-02		8.7053220E-03	
		2	3.3000000E 01						
49	4.6349736E-02	1	5.0259399E 02	4.6449000E 00	4.6405792E 00	4.3208003E-03		1.3540186E-02	
		2	3.3000000E 01						
50	2.6608622E-02	1	3.5821500E 02	6.1303999E 00	6.2155649E 00	-8.5164964E-02		1.8245910E-02	
		2	3.3000000E 01						
51	2.0363339E-02	1	3.0282400E 02	7.0077000E 00	7.1299749E 00	-1.2227494E-01		2.1729189E-02	
		2	3.3000000E 01						
52	1.7515704E-02	1	2.7162900E 02	7.5559000E 00	7.7640088E 00	-2.0810878E-01		2.4702188E-02	
		2	3.3000000E 01						
53	1.0042737E-02	1	1.7439100E 02	9.9786999E 00	1.0524829E 01	-5.4612947E-01		4.6434055E-02	
		2	3.3000000E 01						
54	8.5756114E-03	1	1.4969500E 02	1.0798600E 01	1.1420468E 01	-6.2186825E-01		5.8508705E-02	
		2	3.3000000E 01						
55	8.2553043E-03	1	1.4220300E 02	1.1006100E 01	1.1694862E 01	-6.8876183E-01		6.3113889E-02	
		2	3.3000000E 01						
56	7.5635412E-03	1	1.2600000E 02	1.1498400E 01	1.2258681E 01	-7.6028109E-01		7.4907422E-02	
		2	3.3000000E 01						
57	4.2778447E-02	1	4.9961699E 02	4.8349000E 00	4.8311464E 00	3.7535429E-03		1.3725544E-02	
		2	3.3959999E 01						
58	1.0712108E-02	1	2.0209300E 02	9.6618999E 00	1.0052226E 01	-3.9032626E-01		3.6011769E-02	
		2	3.3959999E 01						
59	5.7015698E-03	1	9.9572999E 01	1.3243500E 01	1.3911431E 01	-6.6793156E-01		9.6237478E-02	
		2	3.3959999E 01						
60	4.7167348E-03	1	5.4524000E 01	1.4560600E 01	1.2717082E 01	1.8435181E 00		1.3193807E-01	
		2	3.3959999E 01						
61	4.3889111E-03	1	4.8507000E 01	1.5094600E 01	1.3489285E 01	1.6053152E 00		1.4053792E-01	
		2	3.3959999E 01						
62	3.2662767E-03	1	4.2783000E 01	1.7497400E 01	1.7057260E 01	4.4013953E-01		1.6215189E-01	

LISTING NUMBER ONE (CONTINUED)

			2	3.3959999E 01							
63	2.5301449E-03	1	4.0209999E 01	1.9880500E 01	2.0765992E 01	-8.8549256E-01				1.7879939E-01	
		2	3.3959999E 01								
64	1.3567166E-03	1	3.6878000E 01	2.7149100E 01	2.9523058E 01	-2.3739581E 00				2.1344603E-01	
		2	3.3959999E 01								
65	9.4638445E-04	1	3.5426999E 01	3.2506200E 01	3.5568764E 01	-3.0625639E 00				2.3928390E-01	
		2	3.3959999E 01								
66	5.6722831E-04	1	3.3702999E 01	4.1987600E 01	4.5447394E 01	-3.4597940E 00				2.8923972E-01	
		2	3.3959999E 01								
67	2.6830406E-04	1	3.1545000E 01	6.1050099E 01	6.3820717E 01	-2.7706180E 00				4.0927806E-01	
		2	3.3959999E 01								
68	1.7414977E-04	1	3.0408000E 01	7.5777199E 01	7.7339262E 01	-1.5620623E 00				5.1561767E-01	
		2	3.3959999E 01								
69	1.0659727E-04	1	2.9232000E 01	9.6856097E 01	9.5183060E 01	1.6730366E 00				6.7279577E-01	
		2	3.3959999E 01								
70	6.0264336E-05	1	2.7941000E 01	1.2981600E 02	1.2074087E 02	8.0751247E 00				9.2153388E-01	
		2	3.3959999E 01								
71	3.9134181E-05	1	2.6975000E 01	1.5985340E 02	1.4522066E 02	1.4632736E 01				1.1784774E 00	
		2	3.3959999E 01								
72	2.5967322E-05	1	2.6109000E 01	1.9623950E 02	1.7218302E 02	2.4056476E 01				1.4770177E 00	
		2	3.3959999E 01								
73	1.0243561E 00	1	2.8430020E 03	9.8803998E-01	9.7651092E-01	1.1529066E-02				3.0170181E-03	
		2	3.5100000E 01								
74	2.4396164E-01	1	1.3547860E 03	2.0246000E 00	1.9824521E 00	4.2147875E-02				5.6138576E-03	
		2	3.5100000E 01								
75	4.5487819E-02	1	5.4358299E 02	4.6887000E 00	4.6594902E 00	2.9209793E-02				1.3048310E-02	
		2	3.5100000E 01								
76	2.7175708E-02	1	4.0401599E 02	6.0660999E 00	6.0703171E 00	-4.2171478E-03				1.6492044E-02	
		2	3.5100000E 01								
77	1.8081223E-02	1	3.1401899E 02	7.4367999E 00	7.5257798E 00	-8.8979840E-02				2.0551427E-02	
		2	3.5100000E 01								
78	1.1996870E-02	1	2.3979500E 02	9.1299000E 00	9.3353846E 00	-2.0548463E-01				2.7717146E-02	
		2	3.5100000E 01								
79	7.8154128E-03	1	1.7302600E 02	1.1311600E 01	1.1754932E 01	-4.4333220E-01				4.3805090E-02	
		2	3.5100000E 01								
80	4.8674507E-03	1	1.0684800E 02	1.4333400E 01	1.4889259E 01	-5.5585897E-01				8.5485111E-02	
		2	3.5100000E 01								
81	3.8925459E-05	1	2.7263000E 01	1.6028140E 02	1.4798722E 02	1.2294178E 01				9.7654004E-01	
		2	3.5100000E 01								
82	3.7965084E-03	1	6.1086000E 01	1.6229600E 01	1.5415812E 01	8.1378906E-01				1.1935526E-01	
		2	3.5100000E 01								
83	3.0672706E-03	1	5.0482000E 01	1.8056100E 01	1.6379013E 01	1.6770871E 00				1.2236080E-01	

LISTING NUMBER ONE (CONTINUED)

		2	3.510000E 01						
84	2.7483947E-05	1	2.659800E 01	1.9074820E 02	1.6754117E 02	2.3207031E 01		1.1672002E 00	
		2	3.510000E 01						
85	2.4749400E-03	1	4.537100E 01	2.0101000E 01	1.8852003E 01	1.2489967E 00		1.3309522E-01	
		2	3.510000E 01						
86	1.7232061E-03	1	4.097600E 01	2.4089700E 01	2.4185871E 01	-9.6171379E-02		1.5307886E-01	
		2	3.510000E 01						
87	1.0736207E-03	1	3.778600E 01	3.0519300E 01	3.2015193E 01	-1.4958935E 00		1.7663925E-01	
		2	3.510000E 01						
88	5.9609883E-04	1	5.532100E 01	4.0958200E 01	4.2301163E 01	-1.3429632E 00		2.0856632E-01	
		2	3.510000E 01						
89	4.3538185E-04	1	3.389200E 01	4.7925299E 01	5.0926268E 01	-3.0009680E 00		2.4158892E-01	
		2	3.510000E 01						
90	3.0015311E-04	1	3.259900E 01	5.7720299E 01	6.1113333E 01	-3.3930335E 00		2.9043856E-01	
		2	3.510000E 01						
91	1.9842476E-04	1	3.144800E 01	7.0990800E 01	7.2679473E 01	-1.6886730E 00		3.5738627E-01	
		2	3.510000E 01						
92	1.1181182E-04	1	2.983500E 01	9.4570599E 01	9.4210315E 01	3.6028385E-01		5.0830026E-01	
		2	3.510000E 01						
93	6.3287161E-05	1	2.841500E 01	1.2570200E 02	1.2020977E 02	5.4922295E 00		7.2210182E-01	
		2	3.510000E 01						
94	3.3690687E-02	1	5.0555199E 02	5.4481000E 00	5.4039801E 00	4.4119835E-02		1.4579742E-02	
		2	3.7609999E 01						
95	7.1587722E-03	1	1.9419600E 02	1.1819000E 01	1.2120105E 01	-3.0110526E-01		3.5271312E-02	
		2	3.7609999E 01						
96	3.0654369E-03	1	9.3651999E 01	1.8061500E 01	1.8389271E 01	-3.2777095E-01		9.1719462E-02	
		2	3.7609999E 01						
97	2.2958673E-03	1	6.7655999E 01	2.0870200E 01	2.0206775E 01	6.6342473E-01		1.0853256E-01	
		2	3.7609999E 01						
98	1.7381384E-03	1	5.2746999E 01	2.3986000E 01	2.2734697E 01	1.2513027E 00		1.1207986E-01	
		2	3.7609999E 01						
99	1.4028776E-03	1	4.7301999E 01	2.6698700E 01	2.5750287E 01	9.4841313E-01		1.2456145E-01	
		2	3.7609999E 01						
100	1.0768220E-03	1	4.3227000E 01	3.0473900E 01	3.0374221E 01	9.9679232E-02		1.4546564E-01	
		2	3.7609999E 01						
101	7.9619140E-04	1	4.0395000E 01	3.5439800E 01	3.5939825E 01	-5.0002575E-01		1.6707900E-01	
		2	3.7609999E 01						
102	6.2878271E-04	1	3.8569000E 01	3.9879500E 01	4.1214105E 01	-1.3346057E 00		1.8480715E-01	
		2	3.7609999E 01						
103	3.0612738E-04	1	3.4682000E 01	5.7154300E 01	5.9984215E 01	-2.8299155E 00		2.4518617E-01	
		2	3.7609999E 01						
104	1.9289105E-04	1	3.2770000E 01	7.2001899E 01	7.5389593E 01	-3.3876934E 00		3.0783722E-01	

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		2	3.7609999E 01						
105	1.0901190E-04	1	3.0894000E 01	9.5777397E 01	9.7062024E 01	-1.2846260E 00		4.2443730E-01	
		2	3.7609999E 01						
106	6.3288673E-05	1	2.9284000E 01	1.2570050E 02	1.2326713E 02	2.4333715E 00		6.0203499E-01	
		2	3.7609999E 01						
107	3.8561897E-05	1	2.7901000E 01	1.6103519E 02	1.5382081E 02	7.2145860E 00		8.4519291E-01	
		2	3.7609999E 01						
108	2.5121190E-05	1	2.6934000E 01	1.9951699E 02	1.8116740E 02	1.8349598E 01		1.0861576E 00	
		2	3.7609999E 01						
109	1.0880142E 00	1	3.3772820E 03	9.5869999E-01	9.5086164E-01	7.8383461E-03		3.3536806E-03	
		2	4.0089999E 01						
110	2.4171194E-01	1	1.5679450E 03	2.0340000E 00	1.9883078E 00	4.5692191E-02		5.6925463E-03	
		2	4.0089999E 01						
111	4.8970500E-02	1	6.7489899E 02	4.5189000E 00	4.4497683E 00	6.9131672E-02		1.2592962E-02	
		2	4.0089999E 01						
112	3.3086721E-02	1	5.4507399E 02	5.4976000E 00	5.4349151E 00	6.2684894E-02		1.4816653E-02	
		2	4.0089999E 01						
113	1.4518694E-02	1	3.4194899E 02	8.2991999E 00	8.3058906E 00	-6.6906214E-03		2.0329960E-02	
		2	4.0089999E 01						
114	7.0736505E-03	1	2.1990900E 02	1.1889900E 01	1.2087353E 01	-1.9745362E-01		3.0054133E-02	
		2	4.0089999E 01						
115	3.0895429E-03	1	1.2192300E 02	1.7990900E 01	1.8472863E 01	-4.8196316E-01		6.6668631E-02	
		2	4.0089999E 01						
116	1.7636776E-03	1	7.4635999E 01	2.3811700E 01	2.3737226E 01	7.4474335E-02		1.0402987E-01	
		2	4.0089999E 01						
117	1.3936440E-03	1	6.1734999E 01	2.6787000E 01	2.6102490E 01	6.8451023E-01		1.1193070E-01	
		2	4.0089999E 01						
118	1.0779183E-03	1	5.2964000E 01	3.0458400E 01	2.9349678E 01	1.1087222E 00		1.2709742E-01	
		2	4.0089999E 01						
119	8.0774639E-04	1	4.6607000E 01	3.5185399E 01	3.4560057E 01	6.2534285E-01		1.5869626E-01	
		2	4.0089999E 01						
120	6.1950526E-04	1	4.2955000E 01	4.0177000E 01	4.0224924E 01	-4.7924519E-02		1.8968253E-01	
		2	4.0089999E 01						
121	6.0707024E-04	1	4.2851999E 01	4.0586399E 01	4.0431299E 01	1.5510035E-01		1.9071711E-01	
		2	4.0089999E 01						
122	3.9503393E-04	1	3.8811000E 01	5.0313299E 01	5.1674547E 01	-1.3612475E 00		2.3994659E-01	
		2	4.0089999E 01						
123	2.7104974E-04	1	3.6370000E 01	6.0740099E 01	6.2908435E 01	-2.1683364E 00		2.8373618E-01	
		2	4.0089999E 01						
124	1.5308940E-04	1	3.3557000E 01	8.0821600E 01	8.3159008E 01	-2.3374081E 00		3.7364583E-01	
		2	4.0089999E 01						
125	9.6509898E-05	1	3.1655000E 01	1.0179210E 02	1.0390599E 02	-2.1138954E 00		4.9283984E-01	

LISTING NUMBER ONE (CONTINUED)

			2	4.0089999E 01							
126	5.7297611E-05	1	2.9894000E 01	1.3210880E 02	1.3098731E 02	1.1214924E 00				6.8780013E-01	
		2	4.0089999E 01								
127	3.9623800E-05	1	2.8709000E 01	1.5886270E 02	1.5523410E 02	3.6286030E 00				8.9196527E-01	
		2	4.0089999E 01								
128	2.4962294E-05	1	2.7365000E 01	2.0015100E 02	1.9082194E 02	9.3290558E 00				1.2284487E 00	
		2	4.0089999E 01								
129	1.0767535E 00	1	3.7975510E 03	9.6370000E-01	9.5917451E-01	4.5254827E-03				3.8662280E-03	
		2	4.5100000E 01								
130	2.4553570E-01	1	1.7919830E 03	2.0181000E 00	1.9797615E 00	3.8338453E-02				5.9967324E-03	
		2	4.5100000E 01								
131	3.8374483E-02	1	6.8539400E 02	5.1048000E 00	5.0066081E 00	9.8191917E-02				1.4742770E-02	
		2	4.5100000E 01								
132	1.4578005E-02	1	4.0407900E 02	8.2823000E 00	8.2408457E 00	4.1454315E-02				2.1088550E-02	
		2	4.5100000E 01								
133	8.2656649E-03	1	2.9458500E 02	1.0999200E 01	1.0998614E 01	5.8579445E-04				2.5720598E-02	
		2	4.5100000E 01								
134	5.4377968E-03	1	2.2961600E 02	1.3560900E 01	1.3700421E 01	-1.3952076E-01				3.1744687E-02	
		2	4.5100000E 01								
135	3.3706356E-03	1	1.7168100E 02	1.7224400E 01	1.7483946E 01	-2.5954628E-01				4.5014923E-02	
		2	4.5100000E 01								
136	1.9105073E-03	1	1.1798900E 02	2.2878400E 01	2.3310550E 01	-4.3215060E-01				7.4504281E-02	
		2	4.5100000E 01								
137	1.1445357E-03	1	8.2405999E 01	2.9558700E 01	2.9816482E 01	-2.5778198E-01				1.0700361E-01	
		2	4.5100000E 01								
138	8.7194197E-04	1	6.9283000E 01	3.3865400E 01	3.3612073E 01	2.5332689E-01				1.2412122E-01	
		2	4.5100000E 01								
139	6.1503941E-04	1	5.6598999E 01	4.0322599E 01	3.9848512E 01	4.7408819E-01				1.6390225E-01	
		2	4.5100000E 01								
140	4.5563002E-04	1	4.9909999E 01	4.6848300E 01	4.6142521E 01	7.0577908E-01				2.1069358E-01	
		2	4.5100000E 01								
141	3.9948370E-04	1	4.7625000E 01	5.0032300E 01	4.9367073E 01	6.6522646E-01				2.3260470E-01	
		2	4.5100000E 01								
142	2.7361045E-04	1	4.2333999E 01	6.0455199E 01	6.0918235E 01	-4.6303511E-01				2.9534131E-01	
		2	4.5100000E 01								
143	1.5331012E-04	1	3.7347000E 01	8.0763397E 01	8.2070545E 01	-1.3071470E 00				3.8176711E-01	
		2	4.5100000E 01								
144	1.0190397E-04	1	3.4714999E 01	9.9061399E 01	1.0133284E 02	-2.2714415E 00				4.7537705E-01	
		2	4.5100000E 01								
145	6.5035584E-05	1	3.2468000E 01	1.2400080E 02	1.2568857E 02	-1.6877737E 00				6.4479834E-01	
		2	4.5100000E 01								
146	4.4465490E-05	1	3.0823000E 01	1.4996450E 02	1.5055547E 02	-5.9097290E-01				8.7383057E-01	

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		2	4.510000E 01						
147	3.4421794E-05	1 2	2.9842000E 01 4.510000E 01	1.7044460E 02	1.6931531E 02	1.1292858E 00		1.0759228E 00	
148	2.4296049E-05	1 2	2.8647000E 01 4.510000E 01	2.0287670E 02	1.9737518E 02	5.5015240E 00		1.4135933E 00	
149	2.3491856E-01	1 2	1.9565720E 03 5.0089999E 01	2.0632000E 00	2.0292706E 00	3.3929378E-02		6.5201003E-03	
150	2.8157554E-02	1 2	6.5665999E 02 5.0089999E 01	5.9594000E 00	5.8626985E 00	9.6701503E-02		1.7886664E-02	
151	1.0078884E-02	1 2	4.0953600E 02 5.0089999E 01	9.9607899E 00	9.2065852E 00	7.5420475E-01		2.4400683E-02	
152	8.6588025E-03	1 2	3.4871500E 02 5.0089999E 01	1.0746600E 01	1.0709608E 01	3.6991835E-02		2.6862985E-02	
153	5.3607528E-03	1 2	2.6708899E 02 5.0089999E 01	1.3658000E 01	1.3707040E 01	-4.9039841E-02		3.2357971E-02	
154	3.7903871E-03	1 2	2.1924900E 02 5.0089999E 01	1.6242700E 01	1.6384438E 01	-1.4173794E-01		3.9099522E-02	
155	1.9154773E-03	1 2	1.4663000E 02 5.0089999E 01	2.2848700E 01	2.3218374E 01	-3.6967468E-01		6.5645133E-02	
156	1.1413980E-03	1 2	1.0638400E 02 5.0089999E 01	2.9599300E 01	3.0144420E 01	-5.4512024E-01		9.7827289E-02	
157	5.6230534E-04	1 2	7.0225999E 01 5.0089999E 01	4.2170999E 01	4.2091500E 01	7.9499722E-02		1.4978562E-01	
158	4.0054135E-04	1 2	5.9082000E 01 5.0089999E 01	4.9966199E 01	4.9546296E 01	4.1990376E-01		1.9776990E-01	
159	3.2270054E-04	1 2	6.4426999E 01 5.5089999E 01	5.5667300E 01	5.5418370E 01	2.4892950E-01		2.0485497E-01	
160	2.6732756E-04	1 2	5.0000000E 01 5.0089999E 01	6.1161500E 01	6.0630149E 01	5.3135061E-01		2.7632284E-01	
161	2.1435979E-04	1 2	4.6378000E 01 5.0089999E 01	6.8301200E 01	6.7958918E 01	3.4228134E-01		3.1807944E-01	
162	1.4676008E-04	1 2	4.1698999E 01 5.0089999E 01	8.2545999E 01	8.2549818E 01	-3.8185120E-03		3.7587903E-01	
163	1.0049785E-04	1 2	3.8090999E 01 5.0089999E 01	9.9751999E 01	1.0092572E 02	-1.1737194E 00		4.3238520E-01	
164	7.2695273E-05	1 2	3.5760000E 01 5.0089999E 01	1.1728620E 02	1.1855211E 02	-1.2659140E 00		5.0941630E-01	
165	4.8020274E-05	1 2	3.3265000E 01 5.0089999E 01	1.4430709E 02	1.4555826E 02	-1.2511673E 00		7.1450765E-01	
166	3.4887774E-05	1 2	3.1664000E 01 5.0089999E 01	1.6930250E 02	1.6948002E 02	-1.7752266E-01		9.7878715E-01	
167	2.5335719E-05	1	3.1825000E 01	1.9867050E 02	1.9859643E 02	7.4068069E-02		1.3008047E 00	

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			2 5.5089999E 01						
168	2.5011905E-05	1	3.0139000E 01	1.9995239E 02	1.9917125E 02	7.8114510E-01		1.3844732E 00	
		2	5.0089999E 01						
169	1.0543821E 00	1	4.6132439E 03	9.7386999E-01	9.7581352E-01	-1.9435287E-03		5.0442256E-03	
		2	5.5089999E 01						
170	2.6306581E-01	1	2.2903010E 03	1.9497000E 00	1.9217233E 00	2.7976736E-02		6.5406981E-03	
		2	5.5089999E 01						
171	3.8939947E-02	1	8.6387999E 02	5.0676000E 00	4.9840340E 00	8.3565950E-02		1.6569309E-02	
		2	5.5089999E 01						
172	1.6301683E-02	1	5.4878599E 02	7.8322000E 00	7.7500478E 00	8.2152188E-02		2.3398515E-02	
		2	5.5089999E 01						
173	8.4400133E-03	1	3.8845200E 02	1.0885000E 01	1.0809790E 01	7.5210333E-02		2.9031133E-02	
		2	5.5089999E 01						
174	5.2834908E-03	1	3.0131199E 02	1.3757500E 01	1.3762008E 01	-4.5080185E-03		3.4304612E-02	
		2	5.5089999E 01						
175	1.7821307E-03	1	1.6427200E 02	2.3688100E 01	2.4066082E 01	-3.7798238E-01		6.6899884E-02	
		2	5.5089999E 01						
176	1.1718646E-03	1	1.2995300E 02	2.9212000E 01	2.9601732E 01	-3.8973188E-01		9.1364245E-02	
		2	5.5089999E 01						
177	1.0873725E-03	1	1.2433000E 02	3.0325700E 01	3.0764272E 01	-4.3857265E-01		9.6520061E-02	
		2	5.5089999E 01						
178	8.1012075E-04	1	1.0508700E 02	3.5133799E 01	3.5576735E 01	-4.4293499E-01		1.1681217E-01	
		2	5.5089999E 01						
179	6.1175796E-04	1	8.9703999E 01	4.0430599E 01	4.0789642E 01	-3.5904264E-01		1.3663579E-01	
		2	5.5089999E 01						
180	4.0308817E-04	1	7.1835999E 01	4.9808099E 01	4.9800875E 01	7.2240829E-03		1.7369386E-01	
		2	5.5089999E 01						
181	2.7394114E-04	1	5.9640000E 01	6.0418699E 01	6.0186852E 01	2.3184729E-01		2.3564675E-01	
		2	5.5089999E 01						
182	2.0368629E-04	1	5.2816000E 01	7.0067899E 01	6.9715847E 01	3.5205269E-01		2.9842462E-01	
		2	5.5089999E 01						
183	1.5646428E-04	1	4.8104999E 01	7.9945199E 01	7.9612513E 01	3.3268642E-01		3.5264513E-01	
		2	5.5089999E 01						
184	1.0049523E-04	1	4.2170999E 01	9.9753299E 01	9.9883510E 01	-1.3021088E-01		4.2149872E-01	
		2	5.5089999E 01						
185	5.8870345E-05	1	3.7138000E 01	1.3033219E 02	1.3134107E 02	-1.0088730E 00		5.2904627E-01	
		2	5.5089999E 01						
186	3.8462234E-05	1	3.4209999E 01	1.6124370E 02	1.6184474E 02	-6.0104752E-01		7.8676677E-01	
		2	5.5089999E 01						
187	3.3291027E-05	1	3.3288999E 01	1.7331510E 02	1.7445402E 02	-1.1389236E 00		9.4224341E-01	
		2	5.5089999E 01						
188	2.6081522E-05	1	3.1962000E 01	1.9580940E 02	1.9609119E 02	-2.8178787E-01		1.2603943E 00	

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			2	5.5089999E 01							
189	1.1480658E 00	00	1	5.2574229E 03	9.3328999E-01	9.3901212E-01	-5.7221353E-03			5.7055879E-03	
			2	6.0030000E 01							
190	2.5959251E-01		1	2.4874410E 03	1.9627000E 00	1.9374512E 00	2.5248781E-02			6.9042073E-03	
			2	6.0030000E 01							
191	2.6275826E-02		1	7.7755299E 02	6.1691000E 00	6.0608115E 00	1.0828847E-01			2.0459953E-02	
			2	6.0030000E 01							
192	8.2097398E-03		1	4.2528500E 02	1.1036600E 01	1.0925442E 01	1.1115777E-01			3.1083703E-02	
			2	6.0030000E 01							
193	3.6666474E-03		1	2.7756200E 02	1.6514500E 01	1.6482001E 01	3.2499075E-02			4.1971179E-02	
			2	6.0030000E 01							
194	2.0092229E-03		1	2.0017200E 02	2.2309300E 01	2.2460474E 01	-1.5117455E-01			6.0029675E-02	
			2	6.0030000E 01							
195	1.0739726E-03		1	1.4219900E 02	3.0514300E 01	3.0840116E 01	-3.2581639E-01			9.4951010E-02	
			2	6.0030000E 01							
196	6.2920232E-04		1	1.0621300E 02	3.9866200E 01	4.0247867E 01	-3.8166714E-01			1.3386139E-01	
			2	6.0030000E 01							
197	3.9571790E-04		1	8.3087999E 01	5.0269799E 01	5.0502183E 01	-2.3238373E-01			1.6982477E-01	
			2	6.0030000E 01							
198	3.2357417E-04		1	7.5143999E 01	5.5592099E 01	5.5638543E 01	-4.6443939E-02			1.8947534E-01	
			2	6.0030000E 01							
199	2.7952299E-04		1	6.9891999E 01	5.9812400E 01	5.9834349E 01	-2.1949768E-02			2.0842707E-01	
			2	6.0030000E 01							
200	2.5879818E-04		1	6.7549000E 01	6.2161199E 01	6.1987035E 01	1.7416382E-01			2.1928130E-01	
			2	6.0030000E 01							
201	2.0107333E-04		1	6.0360000E 01	7.0521699E 01	7.0142816E 01	3.7888241E-01			2.6577636E-01	
			2	6.0030000E 01							
202	1.6166658E-04		1	5.5238000E 01	7.8648397E 01	7.8107522E 01	5.4087543E-01			3.1369081E-01	
			2	6.0030000E 01							
203	1.0086457E-04		1	4.6779000E 01	9.9570497E 01	9.9056296E 01	5.1420116E-01			4.1465315E-01	
			2	6.0030000E 01							
204	6.2426550E-05		1	4.0829999E 01	1.2656550E 02	1.2634524E 02	2.2025871E-01			5.0777810E-01	
			2	6.0030000E 01							
205	4.4810963E-05		1	3.7678000E 01	1.4938530E 02	1.4972671E 02	-3.4140778E-01			6.4971645E-01	
			2	6.0030000E 01							
206	3.6443604E-05		1	3.6039000E 01	1.6564920E 02	1.6599781E 02	-3.4861565E-01			8.1586171E-01	
			2	6.0030000E 01							
207	2.6094900E-05		1	3.3726000E 01	1.9575920E 02	1.9605168E 02	-2.9247856E-01			1.2583135E 00	
			2	6.0030000E 01							
208	3.1739734E-03		1	2.7789900E 02	1.7750000E 01	1.7744684E 01	5.3155422E-03			4.6224282E-02	
			2	6.3959999E 01							
209	1.5201730E-03		1	1.8783100E 02	2.5649000E 01	2.5833359E 01	-1.8535900E-01			7.2773950E-02	

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		2	6.3959999E 01						
210	1.4256077E-03	1	1.8149100E 02	2.6485000E 01	2.6690060E 01	-2.0505977E-01		7.6225579E-02	
		2	6.3959999E 01						
211	8.6317223E-04	1	1.3862900E 02	3.4037000E 01	3.4421736E 01	-3.8473654E-01		1.0937285E-01	
		2	6.3959999E 01						
212	8.1735375E-04	1	1.3473300E 02	3.4978000E 01	3.5356318E 01	-3.7831831E-01		1.1338355E-01	
		2	6.3959999E 01						
213	5.7137399E-04	1	1.1131600E 02	4.1834999E 01	4.2301766E 01	-4.6676683E-01		1.4137338E-01	
		2	6.3959999E 01						
214	2.8414443E-04	1	7.8067999E 01	5.9324000E 01	5.9539847E 01	-2.1584797E-01		1.9992701E-01	
		2	6.3959999E 01						
215	2.0256824E-04	1	6.6719999E 01	7.0260999E 01	7.0177013E 01	8.3986282E-02		2.4604928E-01	
		2	6.3959999E 01						
216	1.3861697E-04	1	5.6859999E 01	8.4935999E 01	8.4625945E 01	3.1005478E-01		3.2507620E-01	
		2	6.3959999E 01						
217	9.6098037E-05	1	4.9728000E 01	1.0201000E 02	1.0157937E 02	4.3062305E-01		4.1184437E-01	
		2	6.3959999E 01						
218	5.3089293E-05	1	4.1756999E 01	1.3724500E 02	1.3602193E 02	1.2230721E 00		5.6990762E-01	
		2	6.3959999E 01						
219	3.3904876E-05	1	3.7245000E 01	1.7173900E 02	1.7202232E 02	-2.8332901E-01		9.1786683E-01	
		2	6.3959999E 01						
220	2.4076878E-05	1	3.4640000E 01	2.0379800E 02	2.0382880E 02	-3.0807495E-02		1.4500902E 00	
		2	6.3959999E 01						
221	1.1995556E 00	1	6.1904189E 03	9.1303999E-01	9.2376239E-01	-1.0722399E-02		6.9285132E-03	
		2	6.9000000E 01						
222	2.6824116E-01	1	2.9178060E 03	1.9308000E 00	1.9125611E 00	1.8238857E-02		7.3797490E-03	
		2	6.9000000E 01						
223	3.1288200E-02	1	9.8576099E 02	5.6533999E 00	5.5660774E 00	8.7322533E-02		2.0090247E-02	
		2	6.9000000E 01						
224	1.0086558E-02	1	5.5297799E 02	9.9569999E 00	9.8550699E 00	1.0193002E-01		3.1539297E-02	
		2	6.9000000E 01						
225	4.0572698E-03	1	3.4517200E 02	1.5699400E 01	1.5676657E 01	2.2742867E-02		4.3094468E-02	
		2	6.9000000E 01						
226	3.3262272E-03	1	3.1114800E 02	1.7339000E 01	1.7356762E 01	-1.7761946E-02		4.6711745E-02	
		2	6.9000000E 01						
227	2.5470026E-03	1	2.7085100E 02	1.9814600E 01	1.9880579E 01	-6.5978765E-02		5.2970871E-02	
		2	6.9000000E 01						
228	1.5193435E-03	1	2.3014200E 02	2.5655000E 01	2.5719373E 01	-6.4373016E-02		7.1554288E-02	
		2	7.5009997E 01						
229	1.4255001E-03	1	2.0053600E 02	2.6486000E 01	2.6642692E 01	-1.5669203E-01		7.5396128E-02	
		2	6.9000000E 01						
230	1.0245507E-03	1	1.6866600E 02	3.1241600E 01	3.1505733E 01	-2.6413321E-01		9.5282973E-02	

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			2	6.9000000E 01						
231	9.0039614E-04	1	1.5797300E 02	3.3326000E 01	3.3564557E 01	-2.3855782E-01			1.0411326E-01	
		2	6.9000000E 01							
232	5.2479744E-04	1	1.1920400E 02	4.3652000E 01	4.4059270E 01	-4.0727043E-01			1.4756797E-01	
		2	6.9000000E 01							
233	3.8789774E-04	1	1.0217200E 02	5.0774000E 01	5.1197816E 01	-4.2381620E-01			1.7275773E-01	
		2	6.9000000E 01							
234	2.7540421E-04	1	8.6049999E 01	6.0258000E 01	6.0735686E 01	-4.7768688E-01			2.0232452E-01	
		2	6.9000000E 01							
235	2.2580993E-04	1	7.8344999E 01	6.6547000E 01	6.6882169E 01	-3.3516884E-01			2.2222213E-01	
		2	6.9000000E 01							
236	1.2224494E-04	1	5.9951000E 01	9.0444999E 01	9.0294232E 01	1.5076542E-01			3.2782160E-01	
		2	6.9000000E 01							
237	9.3020042E-05	1	5.3959999E 01	1.0368400E 02	1.0341502E 02	2.6897717E-01			3.9733282E-01	
		2	6.9000000E 01							
238	5.4423714E-05	1	4.5165000E 01	1.3555199E 02	1.3516176E 02	3.9023590E-01			5.7475800E-01	
		2	6.9000000E 01							
239	3.3919885E-05	1	3.9449000E 01	1.7170099E 02	1.7324358E 02	-1.5425892E 00			9.7606040E-01	
		2	6.9000000E 01							
240	2.3437752E-05	1	3.6270000E 01	2.0655800E 02	2.0705268E 02	-4.9468422E-01			1.6017049E 00	
		2	6.9000000E 01							
241	9.3858216E-01	1	5.9519469E 03	1.0322000E 00	1.0427642E 00	-1.0564253E-02			7.5111523E-03	
		2	7.5009997E 01							
242	2.4670788E-01	1	3.0452490E 03	2.0133000E 00	1.9976080E 00	1.5691966E-02			7.9192135E-03	
		2	7.5009997E 01							
243	3.4079904E-02	1	1.1247020E 03	5.4169000E 00	5.3337024E 00	8.3197534E-02			1.9678660E-02	
		2	7.5009997E 01							
244	1.0112745E-02	1	6.0762700E 02	9.9440999E 00	9.8256158E 00	1.1848414E-01			3.2626942E-02	
		2	7.5009997E 01							
245	4.5849342E-03	1	4.0560200E 02	1.4768400E 01	1.4675453E 01	9.2947125E-02			4.2724715E-02	
		2	7.5009997E 01							
246	3.2615775E-03	1	3.3491100E 02	1.7510000E 01	1.7743917E 01	-2.3391747E-01			4.9077257E-02	
		2	7.5009997E 01							
247	2.0856559E-03	1	2.7088600E 02	2.1896700E 01	2.1891632E 01	5.0680637E-03			5.9478660E-02	
		2	7.5009997E 01							
248	1.3149401E-03	1	2.1346400E 02	2.7577000E 01	2.7703073E 01	-1.2607360E-01			7.8683781E-02	
		2	7.5009997E 01							
249	1.2183667E-03	1	2.0542000E 02	2.8649100E 01	2.8773808E 01	-1.2470865E-01			8.2738066E-02	
		2	7.5009997E 01							
250	7.9497066E-04	1	1.6508000E 02	3.5466999E 01	3.5702259E 01	-2.3525953E-01			1.1116483E-01	
		2	7.5009997E 01							
251	5.5277445E-04	1	1.3712200E 02	4.2533000E 01	4.2887403E 01	-3.5440350E-01			1.4133378E-01	

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		2	7.5009997E 01						
252	3.5704874E-04	1	1.0998300E 02	5.2922000E 01	5.3420568E 01	-4.9856806E-01		1.8054839E-01	
		2	7.5009997E 01						
253	2.7509369E-04	1	9.6599998E 01	6.0292000E 01	6.0917124E 01	-6.2512398E-01		2.0408141E-01	
		2	7.5009997E 01						
254	8.6172166E-05	1	5.8146999E 01	1.0772500E 02	1.0742721E 02	2.9778290E-01		3.9281549E-01	
		2	7.5009997E 01						
255	5.2818018E-05	1	4.8975999E 01	1.3759699E 02	1.3644435E 02	1.1526489E 00		5.7649968E-01	
		2	7.5009997E 01						
256	3.3604437E-05	1	4.2574000E 01	1.7250500E 02	1.7180233E 02	7.0266533E-01		9.7513106E-01	
		2	7.5009997E 01						
257	2.4770098E-05	1	3.9176999E 01	2.0092600E 02	2.0087399E 02	5.2110672E-02		1.5286205E 00	
		2	7.5009997E 01						
258	1.2370958E 00	1	7.2927879E 03	8.9907999E-01	9.1578907E-01	-1.6709082E-02		8.4174824E-03	
		2	8.0019999E 01						
259	8.9009720E-03	1	6.1086500E 02	1.0599400E 01	1.0475662E 01	1.2373829E-01		3.4897550E-02	
		2	8.0019999E 01						
260	2.3403296E-01	1	3.1669000E 03	2.0671000E 00	2.0534216E 00	1.3678372E-02		8.3081648E-03	
		2	8.0019999E 01						
261	3.7235304E-02	1	1.2585150E 03	5.1823000E 00	5.1044642E 00	7.7835798E-02		1.9001425E-02	
		2	8.0019999E 01						
262	4.5203665E-03	1	4.3328699E 02	1.4873500E 01	1.4753206E 01	1.2029362E-01		4.3985729E-02	
		2	8.0019999E 01						
263	4.2847338E-03	1	4.2171900E 02	1.5277000E 01	1.5156760E 01	1.2023962E-01		4.4796250E-02	
		2	8.0019999E 01						
264	2.5786850E-03	1	3.2566700E 02	1.9692500E 01	1.9613610E 01	7.8890085E-02		5.4326034E-02	
		2	8.0019999E 01						
265	1.9839404E-03	1	2.8503000E 02	2.2451000E 01	2.2402202E 01	4.8797369E-02		6.1418263E-02	
		2	8.0019999E 01						
266	9.7949879E-04	1	1.9871700E 02	3.1952000E 01	3.2106168E 01	-1.5416837E-01		9.4627820E-02	
		2	8.0019999E 01						
267	5.2498986E-04	1	1.4519100E 02	4.3643999E 01	4.3952109E 01	-3.0810976E-01		1.4362384E-01	
		2	8.0019999E 01						
268	3.6228715E-04	1	1.2066700E 02	5.2537999E 01	5.2974362E 01	-4.3636274E-01		1.7831663E-01	
		2	8.0019999E 01						
269	2.8129226E-04	1	1.0652300E 02	5.9624000E 01	6.0167220E 01	-5.4322100E-01		2.0241928E-01	
		2	8.0019999E 01						
270	2.0638669E-04	1	9.1975999E 01	6.9607999E 01	7.0096711E 01	-4.8871136E-01		2.3214059E-01	
		2	8.0019999E 01						
271	1.3255019E-04	1	7.5106000E 01	8.6858000E 01	8.7323655E 01	-4.6565533E-01		2.8793061E-01	
		2	8.0019999E 01						
272	9.2851603E-05	1	6.4721000E 01	1.0377800E 02	1.0381707E 02	-3.9067268E-02		3.6026617E-01	

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		2	8.0019999E 01						
273	5.2651812E-05	1	5.2293999E 01	1.3781400E 02	1.3717086E 02	6.4314079E-01		5.6947367E-01	
		2	8.0019999E 01						
274	3.4321683E-05	1	4.5416999E 01	1.7069300E 02	1.7015468E 02	5.3832054E-01		9.4214295E-01	
		2	8.0019999E 01						
275	2.4323784E-05	1	4.1099000E 01	2.0276100E 02	2.0244247E 02	3.1852913E-01		1.5744229E 00	
		2	8.0019999E 01						
276	1.1898663E 00	1	8.0590129E 03	9.1674999E-01	9.3585082E-01	-1.9100830E-02		9.6321809E-03	
		2	9.0039999E 01						
277	2.7036539E-01	1	3.8382900E 03	1.9232000E 00	1.9176271E 00	5.5728555E-03		8.7000799E-03	
		2	9.0039999E 01						
278	4.8235474E-02	1	1.6186420E 03	4.5531999E 00	4.4934660E 00	5.9733927E-02		1.6677015E-02	
		2	9.0039999E 01						
279	8.9974828E-03	1	6.9635000E 02	1.0542400E 01	1.0419103E 01	1.2329710E-01		3.5684826E-02	
		2	9.0039999E 01						
280	4.2085244E-03	1	4.7502699E 02	1.5414700E 01	1.5289155E 01	1.2554455E-01		4.6650077E-02	
		2	9.0039999E 01						
281	2.1481578E-03	1	3.3857400E 02	2.1575800E 01	2.1494457E 01	8.1342459E-02		6.0041519E-02	
		2	9.0039999E 01						
282	1.3808304E-03	1	2.7073300E 02	2.6911000E 01	2.6934978E 01	-2.3978710E-02		7.4806391E-02	
		2	9.0039999E 01						
283	7.8003241E-04	1	2.0366700E 02	3.5805000E 01	3.5936802E 01	-1.3180208E-01		1.0658165E-01	
		2	9.0039999E 01						
284	5.2335773E-04	1	1.6714600E 02	4.3712000E 01	4.3952201E 01	-2.4020147E-01		1.3876111E-01	
		2	9.0039999E 01						
285	3.6897052E-04	1	1.4079300E 02	5.2060000E 01	5.2416498E 01	-3.5649824E-01		1.7225119E-01	
		2	9.0039999E 01						
286	2.7467440E-04	1	1.2201400E 02	6.0337999E 01	6.0804560E 01	-4.6656084E-01		2.0266324E-01	
		2	9.0039999E 01						
287	2.0615562E-04	1	1.0652300E 02	6.9646998E 01	7.0134771E 01	-4.8777294E-01		2.3318157E-01	
		2	9.0039999E 01						
288	1.3652583E-04	1	8.8034999E 01	8.5583999E 01	8.6148248E 01	-5.6424809E-01		2.8434510E-01	
		2	9.0039999E 01						
289	9.9190942E-05	1	7.6468999E 01	1.0040700E 02	1.0091874E 02	-5.1173687E-01		3.4152638E-01	
		2	9.0039999E 01						
290	5.3616951E-05	1	5.9683999E 01	1.3656800E 02	1.3643937E 02	1.2862968E-01		5.5025457E-01	
		2	9.0039999E 01						
291	3.6211601E-05	1	5.1826999E 01	1.6617900E 02	1.6551955E 02	6.5944481E-01		8.4248021E-01	
		2	9.0039999E 01						
292	2.8001552E-05	1	4.7571999E 01	1.8897700E 02	1.8819889E 02	7.7811050E-01		1.2095663E 00	
		2	9.0039999E 01						
293	4.7265144E-02	1	1.7837680E 03	4.5997000E 00	4.5466405E 00	5.3059518E-02		1.6633724E-02	

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			2	1.0002000E 02						
294	8.6021973E-03	1	7.6010699E 02	1.0781900E 01	1.0659438E 01	1.2246203E-01				3.6594429E-02
		2	1.0002000E 02							
295	4.0342128E-03	1	5.2054700E 02	1.5744200E 01	1.5601147E 01	1.4305258E-01				4.8135304E-02
		2	1.0002000E 02							
296	3.2949881E-03	1	4.6975499E 02	1.7421000E 01	1.7304494E 01	1.1650562E-01				5.1715460E-02
		2	1.0002000E 02							
297	2.4970776E-03	1	4.0951500E 02	2.0011700E 01	1.9880112E 01	1.3158822E-01				5.7162480E-02
		2	1.0002000E 02							
298	1.3348759E-03	1	2.9962000E 02	2.7370300E 01	2.7298375E 01	7.1924448E-02				7.5459110E-02
		2	1.0002000E 02							
299	9.7595245E-04	1	2.5868200E 02	3.2010000E 01	3.1709919E 01	3.0008101E-01				8.9014065E-02
		2	1.0002000E 02							
300	7.7366669E-04	1	2.2836800E 02	3.5951999E 01	3.6023262E 01	-7.1261885E-02				1.0398768E-01
		2	1.0002000E 02							
301	2.1375974E-04	1	1.2237100E 02	6.8396998E 01	6.8944857E 01	-5.4785919E-01				2.2665537E-01
		2	1.0002000E 02							
302	2.0275865E-04	1	1.1931700E 02	7.0228000E 01	7.0827453E 01	-5.9945393E-01				2.3302703E-01
		2	1.0002000E 02							
304	5.6210649E-05	1	6.7853000E 01	1.3337999E 02	1.3402625E 02	-6.4625168E-01				5.4177926E-01
		2	1.0002000E 02							
305	3.4703663E-05	1	5.6621000E 01	1.6975100E 02	1.6931920E 02	4.3179512E-01				8.8226434E-01
		2	1.0002000E 02							
306	2.6140602E-05	1	5.1141999E 01	1.9558800E 02	1.9543495E 02	1.5304756E-01				1.2975914E 00
		2	1.0002000E 02							
307	3.1536862E-01	1	5.7617790E 03	1.7807000E 00	1.7934109E 00	-1.2710899E-02				1.1088854E-02
		2	1.2503000E 02							
308	3.6675511E-02	1	1.9698180E 03	5.2217000E 00	5.1781947E 00	4.3505251E-02				1.7944060E-02
		2	1.2503000E 02							
309	9.3372720E-03	1	9.9569999E 02	1.0348800E 01	1.0251466E 01	9.7333431E-02				3.4480619E-02
		2	1.2503000E 02							
310	4.5160539E-03	1	6.9395099E 02	1.4880600E 01	1.4753561E 01	1.2703896E-01				4.5956475E-02
		2	1.2503000E 02							
311	2.1517865E-03	1	4.8047099E 02	2.1557600E 01	2.1424501E 01	1.3309884E-01				6.0531502E-02
		2	1.2503000E 02							
312	1.2026993E-03	1	3.6052900E 02	2.8835100E 01	2.8734334E 01	1.0076618E-01				7.8236375E-02
		2	1.2503000E 02							
313	8.1103462E-04	1	2.9686700E 02	3.5114000E 01	3.5095215E 01	1.8785000E-02				9.7079821E-02
		2	1.2503000E 02							
314	3.7594259E-04	1	2.0410300E 02	5.1575000E 01	5.1832924E 01	-2.5792456E-01				1.5657894E-01

LISTING NUMBER ONE (CONTINUED)

		2	1.2503000E 02						
315	2.0966902E-04	1	1.5487200E 02	6.9061000E 01	6.9453229E 01	-3.9222908E-01		2.1988432E-01	
		2	1.2503000E 02						
316	9.6077315E-05	1	1.0814400E 02	1.0202100E 02	1.0281785E 02	-7.9685307E-01		3.5407393E-01	
		2	1.2503000E 02						
317	5.2541956E-05	1	8.3308998E 01	1.3795800E 02	1.3870292E 02	-7.4492836E-01		6.1662810E-01	
		2	1.2503000E 02						
318	3.3140981E-05	1	6.8999000E 01	1.7370700E 02	1.7443419E 02	-7.2719383E-01		1.0145176E 00	
		2	1.2503000E 02						
319	2.6243550E-05	1	6.3159000E 01	1.9520400E 02	1.9530479E 02	-1.0079002E-01		1.3130025E 00	
		2	1.2503000E 02						
320	2.4688933E-05	1	6.1774999E 01	2.0125600E 02	2.0104896E 02	2.0703697E-01		1.4068391E 00	
		2	1.2503000E 02						
321	2.6496500E-01	1	6.3425639E 03	1.9427000E 00	1.9575990E 00	-1.4898956E-02		1.2157959E-02	
		2	1.5004000E 02						
322	4.9376132E-02	1	2.7441280E 03	4.5003000E 00	4.4825458E 00	1.7754197E-02		1.5048004E-02	
		2	1.5004000E 02						
323	1.1860596E-02	1	1.3491430E 03	9.1822000E 00	9.1158792E 00	6.6320777E-02		2.9666491E-02	
		2	1.5004000E 02						
324	4.9878850E-03	1	8.7710499E 02	1.4159300E 01	1.4066137E 01	9.3162656E-02		4.2750482E-02	
		2	1.5004000E 02						
325	2.4340829E-03	1	6.1530399E 02	2.0269000E 01	2.0149598E 01	1.1940122E-01		5.6174143E-02	
		2	1.5004000E 02						
326	1.2136261E-03	1	4.3702499E 02	2.8705000E 01	2.8579321E 01	1.2567878E-01		7.6390957E-02	
		2	1.5004000E 02						
327	7.9041777E-04	1	3.5375200E 02	3.5569000E 01	3.5528988E 01	4.0011883E-02		9.7462564E-02	
		2	1.5004000E 02						
328	3.7014986E-04	1	2.4549100E 02	5.1977000E 01	5.1976951E 01	4.8160553E-05		1.5871367E-01	
		2	1.5004000E 02						
329	2.1102968E-04	1	1.8786400E 02	6.8837997E 01	6.9006865E 01	-1.6886806E-01		2.2349796E-01	
		2	1.5004000E 02						
330	9.6201743E-05	1	1.3046300E 02	1.0195500E 02	1.0257262E 02	-6.1761856E-01		3.5465267E-01	
		2	1.5004000E 02						
331	5.5839943E-05	1	1.0258400E 02	1.3382200E 02	1.3451961E 02	-6.9761276E-01		5.8231078E-01	
		2	1.5004000E 02						
332	3.4323694E-05	1	8.3449999E 01	1.7068800E 02	1.7142048E 02	-7.3248291E-01		1.0305366E 00	
		2	1.5004000E 02						
333	2.5083458E-05	1	7.3521999E 01	1.9966700E 02	2.0012595E 02	-4.5895195E-01		1.4880728E 00	
		2	1.5004000E 02						
334	2.7829577E-01	1	7.5892590E 03	1.8956000E 00	1.9111960E 00	-1.5596032E-02		1.3169386E-02	
		2	1.7502000E 02						
335	4.7244599E-02	1	3.1337840E 03	4.6007000E 00	4.5913658E 00	9.3342066E-03		1.5428918E-02	

LISTING NUMBER ONE (CONTINUED)

		2	1.7502000E 02						
336	4.3339550E-02	1	3.0011870E 03	4.8035000E 00	4.7935728E 00	9.9271536E-03		1.5984701E-02	
		2	1.7502000E 02						
337	9.7374843E-03	1	1.4285220E 03	1.0133900E 01	1.0079920E 01	5.3980231E-02		3.2134202E-02	
		2	1.7502000E 02						
338	4.2687358E-03	1	9.4893999E 02	1.5305600E 01	1.5225046E 01	8.0554366E-02		4.4915950E-02	
		2	1.7502000E 02						
339	2.2861079E-03	1	6.9717000E 02	2.0914700E 01	2.0812050E 01	1.0265017E-01		5.6869978E-02	
		2	1.7502000E 02						
340	1.3739395E-03	1	5.4271899E 02	2.6978400E 01	2.6866751E 01	1.1164904E-01		7.1143485E-02	
		2	1.7502000E 02						
341	8.3227667E-04	1	4.2466900E 02	3.4663000E 01	3.4557260E 01	1.0573912E-01		9.4670500E-02	
		2	1.7502000E 02						
342	3.6010423E-04	1	2.8318300E 02	5.2696999E 01	5.2633934E 01	6.3065052E-02		1.6973195E-01	
		2	1.7502000E 02						
343	2.1216852E-04	1	2.2013300E 02	6.8652999E 01	6.8661357E 01	-8.3570480E-03		2.4131500E-01	
		2	1.7502000E 02						
344	9.5018221E-05	1	1.5154100E 02	1.0258800E 02	1.0277265E 02	-1.8465233E-01		3.8396465E-01	
		2	1.7502000E 02						
345	5.2099172E-05	1	1.1575300E 02	1.3854300E 02	1.3889142E 02	-3.4842491E-01		6.3285283E-01	
		2	1.7502000E 02						
346	3.6133281E-05	1	9.8783998E 01	1.6635900E 02	1.6677175E 02	-4.1275406E-01		9.7499183E-01	
		2	1.7502000E 02						
347	2.5561278E-05	1	8.5492998E 01	1.9779200E 02	1.9799061E 02	-1.9861031E-01		1.5008347E 00	
		2	1.7502000E 02						
348	2.7782657E-01	1	8.6707779E 03	1.8972000E 00	1.9108377E 00	-1.3637662E-02		1.4183456E-02	
		2	2.0011000E 02						
349	3.3574729E-02	1	3.0214200E 03	5.4575000E 00	5.4540794E 00	3.4205317E-03		1.8849625E-02	
		2	2.0011000E 02						
350	1.5199892E-02	1	2.0372330E 03	8.1111000E 00	8.0937217E 00	1.7378211E-02		2.7642948E-02	
		2	2.0011000E 02						
351	1.0457952E-02	1	1.6916840E 03	9.7786000E 00	9.7544686E 00	2.4131417E-02		3.2884960E-02	
		2	2.0011000E 02						
352	5.7213389E-03	1	1.2540500E 03	1.3220600E 01	1.3184824E 01	3.5775542E-02		4.2364486E-02	
		2	2.0011000E 02						
353	4.1015106E-03	1	1.0637160E 03	1.5614500E 01	1.5568248E 01	4.6251774E-02		4.8044769E-02	
		2	2.0011000E 02						
354	3.0206185E-03	1	9.1311899E 02	1.8195000E 01	1.8168299E 01	2.6700974E-02		5.3736825E-02	
		2	2.0011000E 02						
355	3.0129633E-03	1	9.1332200E 02	1.8218100E 01	1.8164208E 01	5.3891420E-02		5.3728095E-02	
		2	2.0011000E 02						
356	2.1129140E-03	1	7.6696799E 02	2.1755000E 01	2.1684763E 01	7.0236683E-02		6.1252612E-02	

LISTING NUMBER ONE (CONTINUED)

		2	2.0011000E 02						
357	1.4887226E-03	1	6.4552099E 02	2.5917500E 01	2.5843386E 01	7.4113369E-02		7.0946558E-02	
		2	2.0011000E 02						
358	1.3276676E-03	1	6.1027499E 02	2.7444500E 01	2.7367060E 01	7.7440262E-02		7.4923966E-02	
		2	2.0011000E 02						
359	1.0793069E-03	1	5.5135899E 02	3.0438800E 01	3.0359753E 01	7.9046726E-02		8.3594317E-02	
		2	2.0011000E 02						
360	5.7345563E-04	1	4.0552700E 02	4.1759000E 01	4.1636617E 01	1.2238216E-01		1.2709102E-01	
		2	2.0011000E 02						
361	3.7089160E-04	1	3.2855300E 02	5.1924999E 01	5.1801840E 01	1.2315941E-01		1.7723789E-01	
		2	2.0011000E 02						
362	9.1873426E-05	1	1.6997700E 02	1.0432900E 02	1.0443358E 02	-1.0458279E-01		4.4607954E-01	
		2	2.0011000E 02						
363	5.4684816E-05	1	1.3427000E 02	1.3522800E 02	1.3555534E 02	-3.2733917E-01		6.4195045E-01	
		2	2.0011000E 02						
364	2.5735073E-05	1	9.6665000E 01	1.9712300E 02	1.9779873E 02	-6.7573547E-01		1.5140766E 00	
		2	2.0011000E 02						
365	2.7121086E-01	1	1.0695292E 04	1.9202000E 00	1.9216484E 00	-1.4484525E-03		1.9306680E-02	
		2	2.4999000E 02						
366	4.6705009E-02	1	4.4472029E 03	4.6271999E 00	4.6358963E 00	-8.6963773E-03		2.0736562E-02	
		2	2.4999000E 02						
367	7.1846449E-03	1	1.7528080E 03	1.1797700E 01	1.1817609E 01	-1.9908905E-02		4.9890282E-02	
		2	2.4999000E 02						
368	3.9598221E-03	1	1.3045550E 03	1.5891400E 01	1.5917100E 01	-2.5700450E-02		6.3681353E-02	
		2	2.4999000E 02						
369	3.0977679E-03	1	1.1555630E 03	1.7967000E 01	1.7991468E 01	-2.4468660E-02		6.9760646E-02	
		2	2.4999000E 02						
370	2.2031758E-03	1	9.7660599E 02	2.1504700E 01	2.1330465E 01	-2.5765657E-02		7.8808026E-02	
		2	2.4999000E 02						
371	1.2095269E-03	1	7.2699399E 02	2.8753600E 01	2.8781895E 01	-2.8295517E-02		9.9184573E-02	
		2	2.4999000E 02						
372	8.6084384E-04	1	6.1498399E 02	3.4083000E 01	3.4134125E 01	-5.1125526E-02		1.1710075E-01	
		2	2.4999000E 02						
373	2.0177485E-04	1	3.0500900E 02	7.0398998E 01	7.0404530E 01	-5.5313110E-03		3.3764595E-01	
		2	2.4999000E 02						
374	9.6218733E-05	1	2.1538200E 02	1.0194600E 02	1.0176282E 02	1.8317795E-01		5.6780357E-01	
		2	2.4999000E 02						
375	5.4162078E-05	1	1.6539900E 02	1.3587900E 02	1.3551757E 02	3.6142921E-01		8.1231344E-01	
		2	2.4999000E 02						
376	3.7203385E-05	1	1.3965700E 02	1.6394900E 02	1.6351190E 02	4.3709946E-01		1.0761450E 00	
		2	2.4999000E 02						
377	2.4476130E-05	1	1.1611000E 02	2.0212900E 02	2.0167560E 02	4.5339775E-01		1.6503345E 00	

LISTING NUMBER ONE (CONTINUED)

		2	2.4999000E 02						
378	2.6860273E-01	1	1.1629282E 04	1.9295000E 00	1.9205859E 00	8.9140683E-03		2.4211014E-02	
		2	2.7316000E 02						
379	4.3954128E-02	1	4.7128180E 03	4.7697999E 00	4.7793156E 00	-9.5156431E-03		2.4849767E-02	
		2	2.7316000E 02						
380	3.9474045E-02	1	4.4656479E 03	5.0332000E 00	5.0457491E 00	-1.2549102E-02		2.5779787E-02	
		2	2.7316000E 02						
381	2.1580574E-02	1	3.3077330E 03	6.8972000E 00	6.8258353E 00	-1.8635333E-02		3.3524567E-02	
		2	2.7316000E 02						
382	2.0087787E-02	1	3.1907700E 03	7.0556000E 00	7.0777320E 00	-2.2131979E-02		3.4734561E-02	
		2	2.7316000E 02						
383	1.8203896E-02	1	3.0368340E 03	7.4117000E 00	7.4389347E 00	-2.7234793E-02		3.6488414E-02	
		2	2.7316000E 02						
384	1.2197776E-02	1	2.4897950E 03	9.0544000E 00	9.0855089E 00	-3.1108975E-02		4.4538769E-02	
		2	2.7316000E 02						
385	4.3731942E-03	1	1.4968750E 03	1.5121700E 01	1.5171904E 01	-5.0203919E-02		7.1086133E-02	
		2	2.7316000E 02						
386	3.5706179E-03	1	1.3534010E 03	1.6735100E 01	1.6796081E 01	-6.0981274E-02		7.7111243E-02	
		2	2.7316000E 02						
387	2.1734490E-03	1	1.0590910E 03	2.1449900E 01	2.1520323E 01	-7.0423603E-02		9.2833165E-02	
		2	2.7316000E 02						
388	1.4199192E-03	1	8.5894599E 02	2.6538000E 01	2.6608551E 01	-7.0551634E-02		1.0849585E-01	
		2	2.7316000E 02						
389	1.2338307E-03	1	8.0164000E 02	2.8469000E 01	2.8540553E 01	-7.1552753E-02		1.1458844E-01	
		2	2.7316000E 02						
390	2.7129562E-01	1	1.2835564E 04	1.9199000E 00	1.8951933E 00	2.4706721E-02		3.2216769E-02	
		2	2.9999000E 02						
391	3.9469339E-02	1	4.9047179E 03	5.0335000E 00	5.0412558E 00	-7.7558160E-03		3.1424267E-02	
		2	2.9999000E 02						
392	3.0150239E-02	1	4.2885169E 03	5.7591000E 00	5.7739452E 00	-1.4845252E-02		3.4286393E-02	
		2	2.9999000E 02						
393	1.0106442E-02	1	2.4897860E 03	9.9471999E 00	9.9953417E 00	-4.8141718E-02		5.6819384E-02	
		2	2.9999000E 02						
394	4.5582896E-03	1	1.6770010E 03	1.4811500E 01	1.4891230E 01	-7.9729795E-02		8.2373070E-02	
		2	2.9999000E 02						
395	1.9340206E-03	1	1.0977620E 03	2.2738900E 01	2.2847625E 01	-1.0872531E-01		1.1600341E-01	
		2	2.9999000E 02						
396	1.3135965E-03	1	9.0731399E 02	2.7591100E 01	2.7710094E 01	-1.1899400E-01		1.3397909E-01	
		2	2.9999000E 02						
397	1.2690118E-03	1	8.9194399E 02	2.8071600E 01	2.8194239E 01	-1.2263918E-01		1.3575631E-01	
		2	2.9999000E 02						
398	4.4405426E-04	1	5.3350999E 02	4.7455000E 01	4.7576838E 01	-1.2183762E-01		2.2567353E-01	

LISTING NUMBER ONE (CONTINUED)

			2	2.9999000E 02							
399	4.4282135E-04	1	5.3340799E 02	4.7521000E 01	4.7586148E 01	-6.5148354E-02				2.2572997E-01	
		2	2.9999000E 02								
400	4.2202147E-04	1	5.2014099E 02	4.8378000E 01	4.8829197E 01	-1.5119696E-01				2.3339660E-01	
		2	2.9999000E 02								
401	4.1479834E-04	1	5.1585299E 02	4.9100000E 01	4.9244981E 01	-1.4498186E-01				2.3601751E-01	
		2	2.9999000E 02								
402	4.1009101E-04	1	5.1380099E 02	4.9380999E 01	4.9446471E 01	-6.5472126E-02				2.3729774E-01	
		2	2.9999000E 02								
403	4.0099385E-04	1	5.0751299E 02	4.9937999E 01	5.0074315E 01	-1.3631582E-01				2.4132898E-01	
		2	2.9999000E 02								
404	3.9842069E-04	1	5.0638099E 02	5.0099000E 01	5.0189043E 01	-9.0043545E-02				2.4207245E-01	
		2	2.9999000E 02								
405	3.1858166E-04	1	4.5410700E 02	5.6025999E 01	5.6128522E 01	-1.0252285E-01				2.8334445E-01	
		2	2.9999000E 02								
406	1.2991645E-04	1	2.9560100E 02	8.7733998E 01	8.7603899E 01	1.3009834E-01				5.6267461E-01	
		2	2.9999000E 02								
407	1.2831149E-04	1	2.9377800E 02	8.8280997E 01	8.8173525E 01	1.0747147E-01				5.6821067E-01	
		2	2.9999000E 02								
408	1.2662771E-04	1	2.9199500E 02	8.8865998E 01	8.8737895E 01	1.2810230E-01				5.7370128E-01	
		2	2.9999000E 02								
409	6.3487008E-05	1	2.1130100E 02	1.2550400E 02	1.2501014E 02	4.9386311E-01				9.2720546E-01	
		2	2.9999000E 02								
410	2.9338810E-05	1	1.4872200E 02	1.8462000E 02	1.8339182E 02	1.2281837E 00				1.5615160E 00	
		2	2.9999000E 02								
411	2.4731680E-05	1	1.3761500E 02	2.0108200E 02	2.0001885E 02	1.0631504E 00				1.8097788E 00	
		2	2.9999000E 02								

LISTING NUMBER TWO USING EQUATION NUMBER TWO (Gas and Fluid only)

TEST = 9.9999999E-07

1	1.0000000E 00	1.7571962E-01		
1	-1.2843938E 05	-1.2843938E 05	-1.3301313E 05	-4.5737550E 03
2	-1.8713203E 00	-1.8713203E 00	-1.8798321E 00	-8.5118247E-03
3	2.3480000E 01	2.3480000E 01	2.3480000E 01	1.7652108E-13
4	6.0000000E 00	6.0000000E 00	6.0000000E 00	7.9196276E-15
5	8.2056999E 01	8.2056999E 01	8.2056999E 01	0.
6	2.5575243E 01	2.5575243E 01	2.5962532E 01	3.8728944E-01
7	2.0060720E 02	2.0060720E 02	2.0887206E 02	8.2648644E 00
2	1.0000000E 00	8.5573125E-02		
1	-1.2843938E 05	-1.3301313E 05	-1.3306587E 05	-5.2735627E 01
2	-1.8713203E 00	-1.8798321E 00	-1.8797602E 00	7.1883735E-05
3	2.3480000E 01	2.3480000E 01	2.3480000E 01	1.7323514E-13
4	6.0000000E 00	6.0000000E 00	6.0000000E 00	7.7733743E-15
5	8.2056999E 01	8.2056999E 01	8.2056999E 01	0.
6	2.5575243E 01	2.5962532E 01	2.5960790E 01	-1.7424470E-03
7	2.0060720E 02	2.0887206E 02	2.0884762E 02	-2.4437808E-02
3	1.0000000E 00	8.8196771E-02		
1	-1.2843938E 05	-1.3306587E 05	-1.3306636E 05	-4.9060854E-01
2	-1.8713203E 00	-1.8797602E 00	-1.8797614E 00	-1.1651034E-06
3	2.3480000E 01	2.3480000E 01	2.3480000E 01	1.7314489E-13
4	6.0000000E 00	6.0000000E 00	6.0000000E 00	7.7693179E-15
5	8.2056999E 01	8.2056999E 01	8.2056999E 01	0.
6	2.5575243E 01	2.5960790E 01	2.5960762E 01	-2.7904223E-05
7	2.0060720E 02	2.0884762E 02	2.0884676E 02	-8.6572095E-04
4	1.0000000E 00	8.8193523E-02		
1	-1.2843938E 05	-1.3306636E 05	-1.3306631E 05	5.0274768E-02
2	-1.8713203E 00	-1.8797614E 00	-1.8797613E 00	8.8244121E-08
3	2.3480000E 01	2.3480000E 01	2.3480000E 01	1.7314482E-13
4	6.0000000E 00	6.0000000E 00	6.0000000E 00	7.7693148E-15
5	8.2056999E 01	8.2056999E 01	8.2056999E 01	0.
6	2.5575243E 01	2.5960762E 01	2.5960761E 01	-6.0343773E-07
7	2.0060720E 02	2.0884676E 02	2.0884676E 02	-3.3440788E-06

LISTING NUMBER TWO (CONTINUED)

I	ACK.L)					BCK)
1	3.4183811E-08 -8.1756499E-06	-1.7253192E-02	1.1431538E 08	-6.7290086E 08	3.1379165E-04	1.4564927E-05
2	-1.7253192E-02 3.9419908E 00	8.7822154E 03	-7.0890713E 13	5.2309122E 14	-1.5346306E 02	-8.2101917E 00
3	1.1431538E 08 -1.5952357E 10	-7.0890713E 13	1.8420665E 25	-3.4796318E 26	7.0377830E 11	4.8600636E 11
4	-6.7290086E 08 3.3884331E 10	5.2309122E 14	-3.4796318E 26	6.8207928E 27	-2.1704255E 12	-7.2551354E 12
5	3.1379165E-04 -1.0420567E-01	-1.5346306E 02	7.0377830E 11	-2.1704255E 12	3.6517050E 00	1.0499087E-01
6	-8.1756499E-06 3.0789118E-03	3.9419908E 00	-1.5952357E 10	3.3884331E 10	-1.0420567E-01	-2.4987581E-03

VALUE OF DETERMINANT = 2.8383863E-37

Of

I	INVERSE OF ACK.L)				
1	1.4903493E 10 -2.6511533E 06	2.6969491E 04	1.6549988E-07	7.7785305E-09	-2.5019235E 05
2	2.6969524E 04 5.2369133E 00	5.1496816E-02	3.4290051E-13	1.6159197E-14	-6.0380073E-02
3	1.6550026E-07 8.1335498E-11	3.4290082E-13	4.5234695E-24	2.2095412E-25	1.7694952E-12
4	7.7785479E-09 3.8246543E-12	1.6159212E-14	2.2095412E-25	1.0954375E-26	8.3747804E-14
5	-2.5018670E 05 1.8238252E 03	-6.0369236E-02	1.7695638E-12	8.3751019E-14	7.0989132E 01
6	-2.6510020E 06 4.8686700E 04	5.2371945E 00	8.1337228E-11	3.8247352E-12	1.8238237E 03

5 ITERATIONS

LISTING NUMBER TWO (CONTINUED)

TPZ FIT USING BOULOER EQUATION

THIS PROBLEM CONTAINS 411 OATA POINTS. 2 INDEPENDENT VARIABLE(S), AND 7 PARAMETER(S) (1 OF THEM HELD CONSTANT).

THE WEIGHTED VARIANCE IS 2.1776194E-04 AND THE UNWEIGHTED SUM OF SQUARES OF THE DEVIATIONS IS 5.9058115E 02.

K	GUESSTIMATE OF K-TH PARAMETER	FINAL VALUE OF K-TH PARAMETER	S.O. OF K-TH PARAMETER	EXACT LEAST SQUARES EQUATIONS	
				FITTED FUNCTION	INPUT DATA
1	-1.2843938E 05	-1.3306634E 05	1.8015031E 03	1.9548379E-03	1.9694027E-03
2	-1.8713203E 00	-1.8797614E 00	3.3487380E-03	-1.0581319E 03	-1.0663422E 03
3	2.3480000E 01	2.3480000E 01	3.1395339E-14	4.3993578E 13	4.4479584E 13
4	6.0000000E 00	6.0000000E 00	1.5444889E-15	-6.7367417E 14	-6.8092933E 14
5	8.2056999E 01	8.2056999E 01	0.	THIS PARAMETER WAS HELD FIXED.	
6	2.5575243E 01	2.5960761E 01	1.2433314E-01	1.9432187E 01	1.9537180E 01
7	2.0060720E 02	2.0884674E 02	3.2560882E 00	-5.0156341E-01	-5.0406225E-01

11

MATRIX OF CORRELATIONS BETWEEN FREE PARAMETERS

1	1.000	0.974	0.637	0.609	-0.243	-0.098
2	0.974	1.000	0.710	0.680	-0.032	0.105
3	0.637	0.710	0.000	0.000	0.099	0.173
4	0.609	0.680	0.	0.000	0.095	0.166
5	-0.243	-0.032	0.099	0.095	1.000	0.981
6	-0.098	0.105	0.173	0.166	0.981	1.000

LISTING NUMBER TWO (CONTINUED)

I	WEIGHT	INDEPENDENT VARIABLE(S)	DEPENDENT VARIABLE	CALCULATED FUNCTION	DEVIATION	STO. DEV. OF PREDICTED MEAN
1	2.2856052E 01	1 7.9552519E 03 2 2.0590000E 01	2.0917000E-01	2.0688567E-01	2.2843257E-03	1.9385710E-03
2	4.7185096E 00	1 3.5215920E 03 2 2.0590000E 01	4.6036000E-01	4.5467994E-01	5.6800619E-03	1.5856480E-03
3	2.2418323E 00	1 2.3806670E 03 2 2.0590000E 01	6.6788000E-01	6.5769813E-01	1.0181867E-02	2.0367397E-03
4	1.6718715E 00	1 2.0339030E 03 2 2.0590000E 01	7.7339000E-01	7.6100324E-01	1.2386747E-02	2.3359508E-03
5	1.5527413E 00	1 1.9523740E 03 2 2.0590000E 01	8.0250999E-01	7.9018253E-01	1.2327462E-02	2.4220608E-03
6	1.0101973E 00	1 1.5434100E 03 2 2.0590000E 01	9.9493999E-01	9.7827077E-01	1.6669221E-02	2.9689415E-03
7	5.9572644E 00	1 4.4021379E 03 2 2.2580000E 01	4.0971000E-01	4.0455938E-01	5.1506162E-03	1.5487979E-03
8	2.1545110E 00	1 2.5908580E 03 2 2.2580000E 01	6.8127999E-01	6.7135921E-01	9.9207833E-03	1.9005677E-03
9	9.9295744E-01	1 1.7135340E 03 2 2.2580000E 01	1.0035400E 00	9.8690788E-01	1.6632117E-02	2.7161652E-03
10	7.2926642E-01	1 1.4477370E 03 2 2.2580000E 01	1.1710000E 00	1.1507504E 00	2.0249620E-02	3.1308483E-03
11	4.2007269E-01	1 1.0626740E 03 2 2.2580000E 01	1.5429000E 00	1.5145237E 00	2.8376251E-02	3.9660133E-03
12	3.5762145E-01	1 9.6645099E 02 2 2.2580000E 01	1.6722000E 00	1.6440652E 00	2.8134838E-02	4.2391492E-03
13	1.3849444E 01	1 7.3811919E 03 2 2.4650000E 01	2.6871000E-01	2.6787406E-01	8.3593651E-04	1.8720026E-03
14	9.8224014E-01	1 1.8889990E 03 2 2.4650000E 01	1.0090000E 00	9.9326715E-01	1.5732825E-02	2.4944001E-03
15	4.9046093E-01	1 1.2939980E 03 2 2.4650000E 01	1.4279000E 00	1.4068490E 00	2.1050960E-02	3.4248429E-03
16	4.7483799E-01	1 1.2781840E 03 2 2.4650000E 01	1.4512000E 00	1.4225877E 00	2.8612286E-02	3.4576997E-03
17	2.2103703E-01	1 8.2778599E 02 2 2.4650000E 01	2.1270000E 00	2.0862414E 00	4.0758550E-02	4.7064788E-03
18	1.7788400E-01	1 7.2332299E 02 2 2.4650000E 01	2.3710000E 00	2.3379939E 00	3.3006102E-02	5.1464892E-03
19	1.4450749E-01	1 6.3840899E 02 2 2.4650000E 01	2.6306000E 00	2.5910659E 00	3.9534032E-02	5.6002244E-03
20	3.7784499E 00	1 4.1698899E 03	5.1445000E-01	5.0884047E-01	5.6095272E-03	1.5438751E-03

LISTING NUMBER TWO (CONTINUED)

			2	2.6750000E 01								
21	1.0404258E 00	1	2.1354980E 03	9.8038000E-01	9.6712533E-01	1.3254665E-02	2.2384154E-03					
		2	2.6750000E 01									
22	1.0080280E 00	1	2.0952600E 03	9.9600999E-01	9.8468542E-01	1.1324577E-02	2.2762691E-03					
		2	2.6750000E 01									
23	2.4097684E-01	1	9.7246100E 02	2.0371000E 00	1.9967729E 00	4.0327057E-02	4.2219116E-03					
		2	2.6750000E 01									
24	1.1501865E-01	1	6.3053699E 02	2.9486000E 00	2.9021200E 00	4.6480030E-02	5.6457829E-03					
		2	2.6750000E 01									
25	8.4421678E-02	1	5.1956899E 02	3.4417000E 00	3.3978190E 00	4.3880999E-02	6.5156052E-03					
		2	2.6750000E 01									
26	6.1735217E-02	1	4.2182000E 02	4.0247000E 00	3.9911596E 00	3.3540398E-02	7.8395666E-03					
		2	2.6750000E 01									
27	2.9116924E 00	1	3.9449530E 03	5.8604000E-01	5.8050253E-01	5.5374652E-03	1.5476962E-03					
		2	2.8830000E 01									
28	1.0161736E 00	1	2.2902990E 03	9.9201000E-01	9.8041463E-01	1.1595368E-02	2.1061067E-03					
		2	2.8830000E 01									
29	9.2420073E-01	1	2.1765040E 03	1.0402000E 00	1.0292255E 00	1.0974452E-02	2.2016111E-03					
		2	2.8830000E 01									
30	2.7503611E-01	1	1.1378750E 03	1.9068000E 00	1.8877250E 00	1.9074962E-02	3.7761276E-03					
		2	2.8830000E 01									
31	1.2246081E-01	1	7.2875800E 02	2.8576000E 00	2.8112819E 00	4.6318054E-02	5.1194522E-03					
		2	2.8830000E 01									
32	5.8223409E-02	1	4.6615800E 02	4.1443000E 00	4.0867996E 00	5.7500422E-02	7.1268693E-03					
		2	2.8830000E 01									
33	4.0733126E-02	1	3.6903600E 02	4.9548000E 00	4.8954230E 00	5.9376955E-02	8.9939951E-03					
		2	2.8830000E 01									
34	3.2937968E-02	1	3.1608000E 02	5.5100000E 00	5.4747066E 00	3.5293341E-02	1.0805114E-02					
		2	2.8830000E 01									
35	2.7269131E-02	1	2.7248700E 02	6.0556999E 00	6.0491929E 00	6.5070391E-03	1.3107946E-02					
		2	2.8830000E 01									
36	4.0639569E 00	1	5.0162280E 03	4.9604999E-01	4.9270799E-01	3.3420101E-03	1.5912029E-03					
		2	3.0860000E 01									
37	1.0273485E 00	1	2.4823640E 03	9.8659999E-01	9.7557832E-01	1.1021666E-02	1.9679819E-03					
		2	3.0860000E 01									
38	1.0088990E 00	1	2.4563570E 03	9.9557999E-01	9.8550320E-01	1.0076798E-02	1.9851502E-03					
		2	3.0860000E 01									
39	2.5730634E-01	1	1.2004670E 03	1.9714000E 00	1.9391346E 00	3.2265440E-02	3.6294192E-03					
		2	3.0860000E 01									
40	1.0957899E-01	1	7.5080299E 02	3.0209000E 00	2.9689007E 00	5.1999331E-02	5.0196853E-03					
		2	3.0860000E 01									
41	4.5621997E-02	1	4.5010500E 02	4.6817999E 00	4.5945863E 00	8.7213695E-02	7.3426449E-03					

LISTING NUMBER TWO (CONTINUED)

			2	3.0860000E	01							
42	4.3475207E-02	1	4.3688499E	02	4.7959999E	00	4.7071059E	00	8.8894069E-02		7.5475591E-03	
		2	3.0860000E	01								
43	2.7025806E-02	1	3.1907499E	02	6.0829000E	00	6.0057217E	00	7.7178299E-02		1.0633015E-02	
		2	3.0860000E	01								
44	1.7929978E-02	1	2.3649900E	02	7.4681000E	00	7.3871670E	00	8.0932975E-02		1.5802916E-02	
		2	3.0860000E	01								
45	1.5740085E-02	1	2.0894000E	02	7.9707000E	00	7.9699455E	00	7.5447559E-04		1.8758792E-02	
		2	3.0860000E	01								
46	1.3987891E-02	1	1.8564900E	02	8.4552000E	00	8.5112563E	00	-5.6056380E-02		2.2068363E-02	
		2	3.0860000E	01								
47	1.0274526E	00	1	2.6709240E	03	9.8654999E-01	9.7558907E-01	1.0960922E-02		1.8571157E-03		
		2	3.3000000E	01								
48	1.1387266E-01	1	8.3572899E	02	2.9634000E	00	2.9151469E	00	4.8253119E-02		4.6781408E-03	
		2	3.3000000E	01								
49	4.6349736E-02	1	5.0259399E	02	4.6449000E	00	4.5635000E	00	8.1399918E-02		6.6712269E-03	
		2	3.3000000E	01								
50	2.6608622E-02	1	3.5821500E	02	6.1303999E	00	6.0325171E	00	9.7882867E-02		9.2412574E-03	
		2	3.3000000E	01								
51	2.0363339E-02	1	3.0282400E	02	7.0077000E	00	6.8720883E	00	1.3561165E-01		1.1302059E-02	
		2	3.3000000E	01								
52	1.7515704E-02	1	2.7162900E	02	7.5559000E	00	7.4499912E	00	1.0590881E-01		1.3014522E-02	
		2	3.3000000E	01								
53	1.0042737E-02	1	1.7439100E	02	9.9786999E	00	9.9591111E	00	1.9588828E-02		2.3759035E-02	
		2	3.3000000E	01								
54	8.5756114E-03	1	1.4969500E	02	1.0798600E	01	1.0796606E	01	1.9942522E-03		2.8938322E-02	
		2	3.3000000E	01								
55	8.2553043E-03	1	1.4220300E	02	1.1006100E	01	1.1061745E	01	-5.5645347E-02		3.0832731E-02	
		2	3.3000000E	01								
56	7.5635412E-03	1	1.2600000E	02	1.1498400E	01	1.1635182E	01	-1.3678169E-01		3.5544823E-02	
		2	3.3000000E	01								
57	4.2778447E-02	1	4.9961699E	02	4.8349000E	00	4.7527840E	00	8.2116008E-02		6.7009084E-03	
		2	3.3959999E	01								
58	1.0712108E-02	1	2.0209300E	02	9.6618999E	00	9.5605748E	00	1.0132515E-01		1.9399471E-02	
		2	3.3959999E	01								
59	5.7015698E-03	1	9.9572999E	01	1.3243500E	01	1.3474472E	01	-2.3097181E-01		4.4746513E-02	
		2	3.3959999E	01								
60	4.7167348E-03	1	5.4524000E	01	1.4560600E	01	1.4093369E	01	4.6723044E-01		6.3840074E-02	
		2	3.3959999E	01								
61	4.3889111E-03	1	4.8507000E	01	1.5094600E	01	1.4749535E	01	3.4506440E-01		7.0228625E-02	
		2	3.3959999E	01								
62	3.2662767E-03	1	4.2783000E	01	1.7497400E	01	1.7315107E	01	1.8229246E-01		8.2863036E-02	

LISTING NUMBER TWO (CONTINUED)

		2	3.3959999E 01						
63	2.5301449E-03	1	4.0209999E 01	1.9980500E 01	2.0088062E 01	-2.0756245E-01		9.1628325E-02	
		2	3.3959999E 01						
64	1.3567166E-03	1	3.6878000E 01	2.7149100E 01	2.7146870E 01	2.2301674E-03		1.0680985E-01	
		2	3.3959999E 01						
65	9.4638445E-04	1	3.5426999E 01	3.2506200E 01	3.2393408E 01	1.1279202E-01		1.1598045E-01	
		2	3.3959999E 01						
66	5.6722831E-04	1	3.3702999E 01	4.1987600E 01	4.1544405E 01	4.4319487E-01		1.3239758E-01	
		2	3.3959999E 01						
67	2.6830406E-04	1	3.1545000E 01	6.1050099E 01	6.0256815E 01	7.9328394E-01		1.7578872E-01	
		2	3.3959999E 01						
68	1.7414977E-04	1	3.0408000E 01	7.5777199E 01	7.5288951E 01	4.8824787E-01		2.2107825E-01	
		2	3.3959999E 01						
69	1.0659727E-04	1	2.9232000E 01	9.6856097E 01	9.6627296E 01	2.2880077E-01		2.9722028E-01	
		2	3.3959999E 01						
70	6.0264336E-05	1	2.7941000E 01	1.2881600E 02	1.2993792E 02	-1.1219158E 00		4.3366557E-01	
		2	3.3959999E 01						
71	3.9134181E-05	1	2.6975000E 01	1.5985340E 02	1.6467030E 02	-4.8169041E 00		5.8949040E-01	
		2	3.3959999E 01						
72	2.5967322E-05	1	2.6109000E 01	1.9623950E 02	2.0593130E 02	-9.6918049E 00		7.8539083E-01	
		2	3.3959999E 01						
73	1.0243561E 00	1	2.8430020E 03	9.8803998E-01	9.7955955E-01	8.4804370E-03		1.7747069E-03	
		2	3.5100000E 01						
74	2.4396164E-01	1	1.3547860E 03	2.0246000E 00	1.9946839E 00	2.9916078E-02		3.3067662E-03	
		2	3.5100000E 01						
75	4.5487819E-02	1	5.4358299E 02	4.6887000E 00	4.5998321E 00	8.8867903E-02		6.2712337E-03	
		2	3.5100000E 01						
76	2.7175708E-02	1	4.0401599E 02	6.0660999E 00	5.9305682E 00	1.3553178E-01		8.1127355E-03	
		2	3.5100000E 01						
77	1.8081223E-02	1	3.1401899E 02	7.4367999E 00	7.2817090E 00	1.5509099E-01		1.0760111E-02	
		2	3.5100000E 01						
78	1.1996870E-02	1	2.3979500E 02	9.1299000E 00	8.9423201E 00	1.8757987E-01		1.5305356E-02	
		2	3.5100000E 01						
79	7.8154128E-03	1	1.7302600E 02	1.1311600E 01	1.1165645E 01	1.4595473E-01		2.3776016E-02	
		2	3.5100000E 01						
80	4.8674507E-03	1	1.0684800E 02	1.4333400E 01	1.4330193E 01	3.2068491E-03		4.1472558E-02	
		2	3.5100000E 01						
81	3.8925459E-05	1	2.7263000E 01	1.6028140E 02	1.6366816E 02	-3.3867626E 00		5.5702585E-01	
		2	3.5100000E 01						
82	3.7965084E-03	1	6.1086000E 01	1.6229600E 01	1.6444516E 01	-2.1491623E-01		5.8305006E-02	
		2	3.5100000E 01						
83	3.0672706E-03	1	5.0482000E 01	1.8056100E 01	1.7677011E 01	3.7908840E-01		6.4581617E-02	

LISTING NUMBER TWO (CONTINUED)

		2	3.510000E 01						
84	2.7483947E-05	1	2.659800E 01	1.9074820E 02	1.9228596E 02	-1.5377617E 00		6.9217578E-01	
		2	3.510000E 01						
85	2.4749400E-03	1	4.5371000E 01	2.0101000E 01	1.9642759E 01	4.5824051E-01		7.2617975E-02	
		2	3.510000E 01						
86	1.7232061E-03	1	4.0976000E 01	2.4089700E 01	2.3741703E 01	3.4799695E-01		8.4974884E-02	
		2	3.510000E 01						
87	1.0736207E-03	1	3.7786000E 01	3.0519300E 01	3.0054775E 01	4.6452475E-01		9.8168607E-02	
		2	3.510000E 01						
88	5.9609883E-04	1	3.5321000E 01	4.0958200E 01	3.8977159E 01	1.9810405E 00		1.1323514E-01	
		2	3.510000E 01						
89	4.3538185E-04	1	3.3892000E 01	4.7925299E 01	4.6979618E 01	9.4568157E-01		1.2745017E-01	
		2	3.510000E 01						
90	3.0015311E-04	1	3.2599000E 01	5.7720299E 01	5.7001213E 01	7.1908665E-01		1.4869660E-01	
		2	3.510000E 01						
91	1.9842476E-04	1	3.1448000E 01	7.0990800E 01	6.9081680E 01	1.9091196E 00		1.8022082E-01	
		2	3.510000E 01						
92	1.1181182E-04	1	2.9835000E 01	9.4570599E 01	9.3419060E 01	1.1515398E 00		2.6016718E-01	
		2	3.510000E 01						
93	6.3287161E-05	1	2.8415000E 01	1.2570200E 02	1.2577512E 02	-7.3121071E-02		3.8855235E-01	
		2	3.510000E 01						
94	3.3690687E-02	1	5.0555199E 02	5.4481000E 00	5.3288388E 00	1.1926121E-01		6.6302325E-03	
		2	3.7609999E 01						
95	7.1587722E-03	1	1.9419600E 02	1.1819000E 01	1.1579352E 01	2.3964810E-01		2.0212886E-02	
		2	3.7609999E 01						
96	3.0654369E-03	1	9.3651999E 01	1.8061500E 01	1.7957140E 01	1.0435987E-01		4.5318981E-02	
		2	3.7609999E 01						
97	2.2958673E-03	1	6.7655999E 01	2.0870200E 01	2.0745841E 01	1.2435889E-01		5.3511986E-02	
		2	3.7609999E 01						
98	1.7381384E-03	1	5.2746999E 01	2.3986000E 01	2.3931173E 01	5.4826498E-02		5.8472433E-02	
		2	3.7609999E 01						
99	1.4028776E-03	1	4.7301999E 01	2.6698700E 01	2.6678491E 01	2.0209312E-02		6.4808233E-02	
		2	3.7609999E 01						
100	1.0768220E-03	1	4.3227000E 01	3.0473900E 01	3.0531665E 01	-5.7765007E-02		7.4165720E-02	
		2	3.7609999E 01						
101	7.9619140E-04	1	4.0395000E 01	3.5439800E 01	3.5108868E 01	3.3093119E-01		8.3837742E-02	
		2	3.7609999E 01						
102	6.2878271E-04	1	3.8569000E 01	3.9879500E 01	3.9520617E 01	3.5888338E-01		9.1789594E-02	
		2	3.7609999E 01						
103	3.0612738E-04	1	3.4682000E 01	5.7154300E 01	5.6197004E 01	9.5729542E-01		1.1909718E-01	
		2	3.7609999E 01						
104	1.9289105E-04	1	3.2770000E 01	7.2001899E 01	7.1110737E 01	8.9116287E-01		1.4991909E-01	

LISTING NUMBER TWO (CONTINUED)

		2	3.7609999E 01						
105	1.0901190E-04	1	3.0894000E 01	9.5777397E 01	9.3912392E 01	1.8650064E 00		2.1482590E-01	
		2	3.7609999E 01						
106	6.3288673E-05	1	2.9284000E 01	1.2570050E 02	1.2417523E 02	1.5252676E 00		3.2593217E-01	
		2	3.7609999E 01						
107	3.8561897E-05	1	2.7901000E 01	1.6103519E 02	1.6296095E 02	-1.9257526E 00		4.9293304E-01	
		2	3.7609999E 01						
108	2.5121190E-05	1	2.6934000E 01	1.9951699E 02	2.0070139E 02	-1.1843948E 00		6.7102749E-01	
		2	3.7609999E 01						
109	1.0880142E 00	1	3.3772820E 03	9.5869999E-01	9.5059558E-01	8.1044062E-03		1.6111198E-03	
		2	4.0089999E 01						
110	2.4171194E-01	1	1.5679450E 03	2.0340000E 00	2.0021112E 00	3.1888813E-02		2.9351172E-03	
		2	4.0089999E 01						
111	4.8970500E-02	1	6.7489899E 02	4.5189000E 00	4.4274848E 00	9.1415167E-02		5.3882315E-03	
		2	4.0089999E 01						
112	3.3086721E-02	1	5.4507399E 02	5.4976000E 00	5.3770121E 00	1.2058789E-01		6.2547183E-03	
		2	4.0089999E 01						
113	1.4518694E-02	1	3.4194899E 02	8.2991999E 00	8.0954094E 00	2.0379055E-01		9.6630669E-03	
		2	4.0089999E 01						
114	7.0736505E-03	1	2.1990900E 02	1.1889900E 01	1.1616197E 01	2.7370298E-01		1.6991417E-02	
		2	4.0089999E 01						
115	3.0895429E-03	1	1.2192300E 02	1.7990900E 01	1.7731760E 01	2.5913954E-01		3.5194833E-02	
		2	4.0089999E 01						
116	1.7636776E-03	1	7.4635999E 01	2.3811700E 01	2.3827787E 01	-1.6087532E-02		5.0326324E-02	
		2	4.0089999E 01						
117	1.3936440E-03	1	6.1734999E 01	2.6787000E 01	2.6866547E 01	-7.9547644E-02		5.3320081E-02	
		2	4.0089999E 01						
118	1.0779183E-03	1	5.2964000E 01	3.0458400E 01	3.0429091E 01	2.9308319E-02		5.7520657E-02	
		2	4.0089999E 01						
119	8.0774639E-04	1	4.6607000E 01	3.5185399E 01	3.5284617E 01	-9.9217892E-02		6.7128318E-02	
		2	4.0089999E 01						
120	6.1950526E-04	1	4.2955000E 01	4.0177000E 01	4.0194930E 01	-1.7930508E-02		7.7775431E-02	
		2	4.0089999E 01						
121	6.0707024E-04	1	4.2851999E 01	4.0586399E 01	4.0371497E 01	2.1490240E-01		7.8144343E-02	
		2	4.0089999E 01						
122	3.9503393E-04	1	3.8811000E 01	5.0313299E 01	5.0009359E 01	3.0394030E-01		9.6117398E-02	
		2	4.0089999E 01						
123	2.7104974E-04	1	3.6370000E 01	6.0740099E 01	5.9926279E 01	8.1381989E-01		1.1211683E-01	
		2	4.0089999E 01						
124	1.5308940E-04	1	3.3557000E 01	8.0821600E 01	7.8910189E 01	1.9114113E 00		1.4658483E-01	
		2	4.0089999E 01						
125	9.6509898E-05	1	3.1655000E 01	1.0179210E 02	9.9952114E 01	1.8399849E 00		1.9975659E-01	

LISTING NUMBER TWO (CONTINUED)

			2	4.0089999E 01						
126	5.7297611E-05	1	2.9894000E 01	1.3210880E 02	1.2982984E 02	2.2789612E 00		3.0083142E-01		
		2	4.0089999E 01							
127	3.9623800E-05	1	2.8709000E 01	1.5886270E 02	1.5882739E 02	3.5306931E-02		4.1863720E-01		
		2	4.0089999E 01							
128	2.4962294E-05	1	2.7365000E 01	2.0015100E 02	2.0508144E 02	-4.9304390E 00		6.3101408E-01		
		2	4.0089999E 01							
129	1.0767535E 00	1	3.7975510E 03	9.6370000E-01	9.5635116E-01	7.3488355E-03		1.5561494E-03		
		2	4.5100000E 01							
130	2.4553570E-01	1	1.7919830E 03	2.0181000E 00	1.9934074E 00	2.4692625E-02		2.6174881E-03		
		2	4.5100000E 01							
131	3.8374483E-02	1	6.8539400E 02	5.1048000E 00	4.9883329E 00	1.1646712E-01		5.3375878E-03		
		2	4.5100000E 01							
132	1.4578005E-02	1	4.0407900E 02	8.2823000E 00	8.0969745E 00	1.8532550E-01		8.0715461E-03		
		2	4.5100000E 01							
133	8.2656649E-03	1	2.9458500E 02	1.0999200E 01	1.0702817E 01	2.9638314E-01		1.1505465E-02		
		2	4.5100000E 01							
134	5.4377968E-03	1	2.2961600E 02	1.3560900E 01	1.3238651E 01	3.2224894E-01		1.5901795E-02		
		2	4.5100000E 01							
135	3.3706356E-03	1	1.7168100E 02	1.7224400E 01	1.6804667E 01	4.1973257E-01		2.3283405E-02		
		2	4.5100000E 01							
136	1.9105073E-03	1	1.1798900E 02	2.2878400E 01	2.2492694E 01	3.8570547E-01		3.5745301E-02		
		2	4.5100000E 01							
137	1.1445357E-03	1	8.2405999E 01	2.9558700E 01	2.9458406E 01	1.0029340E-01		4.7342852E-02		
		2	4.5100000E 01							
138	8.7194197E-04	1	6.9283000E 01	3.3865400E 01	3.3791462E 01	7.3937416E-02		5.1819625E-02		
		2	4.5100000E 01							
139	6.1503941E-04	1	5.6598999E 01	4.0322599E 01	4.0664793E 01	-3.4219313E-01		6.0068825E-02		
		2	4.5100000E 01							
140	4.5563002E-04	1	4.9909999E 01	4.6848300E 01	4.6985723E 01	-1.3742352E-01		7.2339422E-02		
		2	4.5100000E 01							
141	3.9948370E-04	1	4.7625000E 01	5.0032300E 01	5.0052385E 01	-2.0085335E-02		7.9272187E-02		
		2	4.5100000E 01							
142	2.7361045E-04	1	4.2333999E 01	6.0455199E 01	6.0594902E 01	-1.3970232E-01		1.0300384E-01		
		2	4.5100000E 01							
143	1.5331012E-04	1	3.7347000E 01	8.0763397E 01	7.9639427E 01	1.1239710E 00		1.3865017E-01		
		2	4.5100000E 01							
144	1.0190397E-04	1	3.4714999E 01	9.9061399E 01	9.7602365E 01	1.4590330E 00		1.6986172E-01		
		2	4.5100000E 01							
145	6.5035584E-05	1	3.2468000E 01	1.2400080E 02	1.2162120E 02	2.3795986E 00		2.2124520E-01		
		2	4.5100000E 01							
146	4.4465490E-05	1	3.0823000E 01	1.4996450E 02	1.4780987E 02	2.1545249E 00		2.9640027E-01		

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			2	4.5100000E 01							
147	3.4421794E-05	1	2.9842000E 01	1.7044460E 02	1.6871150E 02	1.7331009E 00		3.6967880E-01			
		2	4.5100000E 01								
148	2.4296049E-05	1	2.8647000E 01	2.0287670E 02	2.0181479E 02	1.0619087E 00		5.0440838E-01			
		2	4.5100000E 01								
149	2.3491856E-01	1	1.9565720E 03	2.0632000E 00	2.0423982E 00	2.0801753E-02		2.4232474E-03			
		2	5.0089999E 01								
150	2.8157554E-02	1	6.5665999E 02	5.9594000E 00	5.8404706E 00	1.1892939E-01		5.4985061E-03			
		2	5.0089999E 01								
152	8.6588025E-03	1	3.4871500E 02	1.0746600E 01	1.0499059E 01	2.4754119E-01		9.4137571E-03			
		2	5.0089999E 01								
153	5.3607528E-03	1	2.6708899E 02	1.3658000E 01	1.3338723E 01	3.1927741E-01		1.2997715E-02			
		2	5.0089999E 01								
154	3.7903871E-03	1	2.1924900E 02	1.6242700E 01	1.5867981E 01	3.7471902E-01		1.6843723E-02			
		2	5.0089999E 01								
155	1.9154773E-03	1	1.4663000E 02	2.2948700E 01	2.2390614E 01	4.5808625E-01		2.8104168E-02			
		2	5.0089999E 01								
156	1.1413980E-03	1	1.0638400E 02	2.9599300E 01	2.9284660E 01	3.1464005E-01		3.9429151E-02			
		2	5.0089999E 01								
157	5.6230534E-04	1	7.0225999E 01	4.2170999E 01	4.2084309E 01	8.6690426E-02		5.5497696E-02			
		2	5.0089999E 01								
158	4.0054135E-04	1	5.9082000E 01	4.9966199E 01	5.0122593E 01	-1.5639353E-01		6.8051688E-02			
		2	5.0089999E 01								
159	3.2270054E-04	1	6.4426999E 01	5.5667300E 01	5.5609731E 01	5.7568550E-02		7.1243157E-02			
		2	5.5089999E 01								
160	2.6732756E-04	1	5.0000000E 01	6.1161500E 01	6.1388898E 01	-2.2739792E-01		9.3308375E-02			
		2	5.0089999E 01								
161	2.1435979E-04	1	4.6378000E 01	6.8301200E 01	6.8457634E 01	-1.5643406E-01		1.1094085E-01			
		2	5.0089999E 01								
162	1.4676008E-04	1	4.1698999E 01	8.2545999E 01	8.2090626E 01	4.5537281E-01		1.4310954E-01			
		2	5.0089999E 01								
163	1.0049785E-04	1	3.8090999E 01	9.9751999E 01	9.9087554E 01	6.6444492E-01		1.7748835E-01			
		2	5.0089999E 01								
164	7.2695273E-05	1	3.5760000E 01	1.1728620E 02	1.1565583E 02	1.6303635E 00		2.0763154E-01			
		2	5.0089999E 01								
165	4.8020274E-05	1	3.3265000E 01	1.4430709E 02	1.4200594E 02	2.3011570E 00		2.5874286E-01			
		2	5.0089999E 01								
166	3.4887774E-05	1	3.1664000E 01	1.6930250E 02	1.6654826E 02	2.7542343E 00		3.1813447E-01			
		2	5.0089999E 01								
167	2.5335719E-05	1	3.1825000E 01	1.9867050E 02	1.9673066E 02	1.9398384E 00		3.8273357E-01			

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			2	5.5089999E 01							
168	2.5011905E-05	1	3.0139000E 01	1.9995239E 02	1.9873373E 02	1.2186680E 00		4.1792848E-01			
		2	5.0089999E 01								
169	1.0543821E 00	1	4.6132439E 03	9.7386999E-01	9.6819340E-01	5.6765899E-03		1.5594469E-03			
		2	5.5089999E 01								
170	2.6306581E-01	1	2.2903010E 03	1.9497000E 00	1.9320067E 00	1.7693326E-02		2.1100161E-03			
		2	5.5089999E 01								
171	3.8939947E-02	1	8.6387999E 02	5.0676000E 00	4.9913693E 00	7.6230645E-02		4.5958844E-03			
		2	5.5089999E 01								
172	1.6301683E-02	1	5.4878599E 02	7.8322000E 00	7.6967539E 00	1.3544607E-01		6.2435701E-03			
		2	5.5089999E 01								
173	8.4400133E-03	1	3.8845200E 02	1.0885000E 01	1.0646173E 01	2.3882663E-01		8.4091145E-03			
		2	5.5089999E 01								
174	5.2834908E-03	1	3.0131199E 02	1.3757500E 01	1.3464616E 01	2.9288352E-01		1.1181785E-02			
		2	5.5089999E 01								
175	1.7821307E-03	1	1.6427200E 02	2.3688100E 01	2.3279858E 01	4.0824199E-01		2.4565220E-02			
		2	5.5089999E 01								
176	1.1718646E-03	1	1.2995300E 02	2.9212000E 01	2.8662038E 01	5.4996133E-01		3.2528399E-02			
		2	5.5089999E 01								
177	1.0873725E-03	1	1.2433000E 02	3.0325700E 01	2.9810511E 01	5.1518846E-01		3.4177176E-02			
		2	5.5089999E 01								
178	8.1012075E-04	1	1.0508700E 02	3.5133799E 01	3.4645188E 01	4.8861170E-01		4.0819479E-02			
		2	5.5089999E 01								
179	6.1175796E-04	1	8.9703999E 01	4.0430599E 01	4.0032415E 01	3.9818430E-01		4.7772324E-02			
		2	5.5089999E 01								
180	4.0308817E-04	1	7.1835999E 01	4.9808099E 01	4.9608390E 01	1.9970894E-01		6.0914149E-02			
		2	5.5089999E 01								
181	2.7394114E-04	1	5.9640000E 01	6.0418699E 01	6.0647157E 01	-2.2845745E-01		8.1566589E-02			
		2	5.5089999E 01								
182	2.0368629E-04	1	5.2816000E 01	7.0067899E 01	7.0461866E 01	-3.9396667E-01		1.0512812E-01			
		2	5.5089999E 01								
183	1.5646428E-04	1	4.8104999E 01	7.9945199E 01	8.0304512E 01	-3.5931206E-01		1.3088193E-01			
		2	5.5089999E 01								
184	1.0049523E-04	1	4.2170999E 01	9.9753299E 01	9.9768810E 01	-1.5511513E-02		1.7989535E-01			
		2	5.5089999E 01								
185	5.8870345E-05	1	3.7138000E 01	1.3033219E 02	1.2958314E 02	7.4905777E-01		2.4267516E-01			
		2	5.5089999E 01								
186	3.8462234E-05	1	3.4209999E 01	1.6124370E 02	1.5923436E 02	2.0093384E 00		2.9914871E-01			
		2	5.5089999E 01								
187	3.3291027E-05	1	3.3288999E 01	1.7331510E 02	1.7185617E 02	1.4589329E 00		3.2488001E-01			
		2	5.5089999E 01								
188	2.6081522E-05	1	3.1962000E 01	1.9580940E 02	1.9410388E 02	1.7055187E 00		3.7608961E-01			

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			2	5.5089999E 01						
189	1.1480658E 00	00	1	5.2574229E 03	9.3328999E-01	9.2809415E-01	5.1958412E-03		1.6151842E-03	
			2	6.0030000E 01						
190	2.5959251E-01		1	2.4874410E 03	1.9627000E 00	1.9460550E 00	1.6644955E-02		1.9683165E-03	
			2	6.0030000E 01						
191	2.6275826E-02		1	7.7755299E 02	6.1691000E 00	6.0615986E 00	1.0750139E-01		4.9358366E-03	
			2	6.0030000E 01						
192	8.2097398E-03		1	4.2528500E 02	1.1036600E 01	1.0797122E 01	2.3947835E-01		7.7283317E-03	
			2	6.0030000E 01						
193	3.6666474E-03		1	2.7756200E 02	1.6514500E 01	1.6122450E 01	3.9204955E-01		1.2441521E-02	
			2	6.0030000E 01						
194	2.0092229E-03		1	2.0017200E 02	2.2309300E 01	2.1826741E 01	4.8255944E-01		1.9156249E-02	
			2	6.0030000E 01						
195	1.0739726E-03		1	1.4219900E 02	3.0514300E 01	2.9905303E 01	6.0899734E-01		2.9783164E-02	
			2	6.0030000E 01						
196	6.2920232E-04		1	1.0621300E 02	3.9866200E 01	3.9244593E 01	6.2160683E-01		4.2018130E-02	
			2	6.0030000E 01						
197	3.9571790E-04		1	8.3087999E 01	5.0269799E 01	4.9815181E 01	4.5461798E-01		5.6353421E-02	
			2	6.0030000E 01						
198	3.2357417E-04		1	7.5143999E 01	5.5592099E 01	5.5220959E 01	3.7114096E-01		6.4823372E-02	
			2	6.0030000E 01						
199	2.7952299E-04		1	6.9891999E 01	5.9812400E 01	5.9658773E 01	1.5362692E-01		7.2709748E-02	
			2	6.0030000E 01						
200	2.5879818E-04		1	6.7549000E 01	6.2161199E 01	6.1936015E 01	2.2518396E-01		7.7117143E-02	
			2	6.0030000E 01						
201	2.0107333E-04		1	6.0360000E 01	7.0521699E 01	7.0519822E 01	1.8768311E-03		9.5854998E-02	
			2	6.0030000E 01						
202	1.6166658E-04		1	5.5238000E 01	7.8648397E 01	7.8779312E 01	-1.3091469E-01		1.1644152E-01	
			2	6.0030000E 01						
203	1.0086457E-04		1	4.6779000E 01	9.9570497E 01	9.9821339E 01	-2.5084209E-01		1.7318137E-01	
			2	6.0030000E 01						
204	6.2426550E-05		1	4.0829999E 01	1.2656550E 02	1.2631317E 02	2.5232220E-01		2.3988836E-01	
			2	6.0030000E 01						
205	4.4810963E-05		1	3.7678000E 01	1.4938530E 02	1.4887259E 02	5.1270866E-01		2.8885478E-01	
			2	6.0030000E 01						
206	3.6443604E-05		1	3.6039000E 01	1.6564920E 02	1.6472860E 02	9.2060280E-01		3.2041205E-01	
			2	6.0030000E 01						
207	2.6094900E-05		1	3.3726000E 01	1.9575920E 02	1.9466006E 02	1.0991440E 00		3.7948820E-01	
			2	6.0030000E 01						
208	3.1739734E-03		1	2.7789900E 02	1.7750000E 01	1.7380434E 01	3.6956644E-01		1.2494991E-02	
			2	6.3959999E 01						
209	1.5201730E-03		1	1.8783100E 02	2.5648000E 01	2.5123828E 01	5.2417135E-01		2.1068563E-02	

LISTING NUMBER TWO (CONTINUED)

			2	6.3959999E 01							
210	1.4256077E-03	1	1.8149100E 02	2.6485000E 01	2.5946960E 01	5.3803921E-01		2.2061235E-02			
		2	6.3959999E 01								
211	8.6317223E-04	1	1.3862900E 02	3.4037000E 01	3.3439779E 01	5.9722042E-01		3.1367188E-02			
		2	6.3959999E 01								
212	8.1735375E-04	1	1.3473300E 02	3.4978000E 01	3.4355398E 01	6.2260103E-01		3.2521717E-02			
		2	6.3959999E 01								
213	5.7137399E-04	1	1.1131600E 02	4.1834999E 01	4.1243004E 01	5.9199524E-01		4.1298788E-02			
		2	6.3959999E 01								
214	2.8414443E-04	1	7.8067999E 01	5.9324000E 01	5.8961321E 01	3.6267853E-01		6.7182975E-02			
		2	6.3959999E 01								
215	2.0256824E-04	1	6.6719999E 01	7.0260999E 01	7.0141746E 01	1.1925316E-01		8.8965766E-02			
		2	6.3959999E 01								
216	1.3861697E-04	1	5.6859999E 01	8.4935999E 01	8.5236702E 01	-3.0070305E-01		1.2550988E-01			
		2	6.3959999E 01								
217	9.6098037E-05	1	4.9728000E 01	1.0201000E 02	1.0254417E 02	-5.3416920E-01		1.7272300E-01			
		2	6.3959999E 01								
218	5.3089293E-05	1	4.1756999E 01	1.3724500E 02	1.3659932E 02	6.4567375E-01		2.6296795E-01			
		2	6.3959999E 01								
219	3.3904876E-05	1	3.7245000E 01	1.7173900E 02	1.7181556E 02	-7.6564789E-02		3.4194454E-01			
		2	6.3959999E 01								
220	2.4076878E-05	1	3.4640000E 01	2.0379800E 02	2.0346651E 02	3.3148193E-01		4.0550984E-01			
		2	6.3959999E 01								
221	1.1995556E 00	1	6.1904189E 03	9.1303999E-01	9.0855455E-01	4.4854358E-03		1.7250741E-03			
		2	6.9000000E 01								
222	2.6824116E-01	1	2.9178060E 03	1.9308000E 00	1.9170544E 00	1.3745546E-02		1.7466096E-03			
		2	6.9000000E 01								
223	3.1288200E-02	1	9.8576099E 02	5.6533999E 00	5.5840887E 00	6.9311261E-02		4.2188349E-03			
		2	6.9000000E 01								
224	1.0086558E-02	1	5.5297799E 02	9.9569999E 00	9.8057699E 00	1.5122998E-01		6.2670269E-03			
		2	6.9000000E 01								
225	4.0572698E-03	1	3.4517200E 02	1.5699400E 01	1.5448597E 01	2.5080276E-01		9.6915548E-03			
		2	6.9000000E 01								
226	3.3262272E-03	1	3.1114800E 02	1.7339000E 01	1.7065922E 01	2.7307820E-01		1.0951910E-02			
		2	6.9000000E 01								
227	2.5470026E-03	1	2.7085100E 02	1.9814600E 01	1.9490461E 01	3.2413912E-01		1.3054038E-02			
		2	6.9000000E 01								
228	1.5193435E-03	1	2.3014200E 02	2.5655000E 01	2.5180399E 01	4.7460127E-01		1.6584459E-02			
		2	7.5009997E 01								
229	1.4255001E-03	1	2.0053600E 02	2.6486000E 01	2.5981434E 01	5.0456548E-01		1.9615398E-02			
		2	6.9000000E 01								
230	1.0245507E-03	1	1.6866600E 02	3.1241600E 01	3.0669098E 01	5.7250190E-01		2.4881727E-02			

LISTING NUMBER TWO (CONTINUED)

		2	6.9000000E 01						
231	9.0039614E-04	1	1.5797300E 02	3.3326000E 01	3.2663599E 01	6.6240072E-01		2.7204216E-02	
		2	6.9000000E 01						
232	5.2479744E-04	1	1.1920400E 02	4.3652000E 01	4.2963868E 01	6.8813133E-01		3.9780664E-02	
		2	6.9000000E 01						
233	3.8789774E-04	1	1.0217200E 02	5.0774000E 01	5.0122039E 01	6.5195990E-01		4.9268816E-02	
		2	6.9000000E 01						
234	2.7540421E-04	1	8.6049999E 01	6.0258000E 01	5.9875768E 01	3.8223124E-01		6.3975042E-02	
		2	6.9000000E 01						
235	2.2580993E-04	1	7.8344999E 01	6.6547000E 01	6.6252213E 01	2.9478741E-01		7.5126402E-02	
		2	6.9000000E 01						
236	1.2224494E-04	1	5.9951000E 01	9.0444999E 01	9.0741894E 01	-2.9689598E-01		1.3027590E-01	
		2	6.9000000E 01						
237	9.3020042E-05	1	5.3959999E 01	1.0368400E 02	1.0433818E 02	-6.5418243E-01		1.6693761E-01	
		2	6.9000000E 01						
238	5.4423714E-05	1	4.5165000E 01	1.3555199E 02	1.3650777E 02	-9.5577431E-01		2.5677969E-01	
		2	6.9000000E 01						
239	3.3919885E-05	1	3.9449000E 01	1.7170099E 02	1.7434856E 02	-2.6475658E 00		3.5214244E-01	
		2	6.9000000E 01						
240	2.3437752E-05	1	3.6270000E 01	2.0655800E 02	2.0808039E 02	-1.5223923E 00		4.2551184E-01	
		2	6.9000000E 01						
241	9.3858216E-01	1	5.9519469E 03	1.0322000E 00	1.0279747E 00	4.2253137E-03		1.6955622E-03	
		2	7.5009997E 01						
242	2.4670788E-01	1	3.0452490E 03	2.0133000E 00	2.0009018E 00	1.2398183E-02		1.7005925E-03	
		2	7.5009997E 01						
243	3.4079904E-02	1	1.1247020E 03	5.4169000E 00	5.3561856E 00	6.0714424E-02		3.8438900E-03	
		2	7.5009997E 01						
244	1.0112745E-02	1	6.0762700E 02	9.9440999E 00	9.7966605E 00	1.4743936E-01		5.8834900E-03	
		2	7.5009997E 01						
245	4.5849342E-03	1	4.0560200E 02	1.4768400E 01	1.4525781E 01	2.4261904E-01		8.2465218E-03	
		2	7.5009997E 01						
246	3.2615775E-03	1	3.3491100E 02	1.7510000E 01	1.7495748E 01	1.4251471E-02		1.0161257E-02	
		2	7.5009997E 01						
247	2.0856559E-03	1	2.7088600E 02	2.1896700E 01	2.1495254E 01	4.0144563E-01		1.3274696E-02	
		2	7.5009997E 01						
248	1.3149401E-03	1	2.1346400E 02	2.7577000E 01	2.7090854E 01	4.8814597E-01		1.8430627E-02	
		2	7.5009997E 01						
249	1.2183667E-03	1	2.0542000E 02	2.8649100E 01	2.8122739E 01	5.2636051E-01		1.9458845E-02	
		2	7.5009997E 01						
250	7.9497066E-04	1	1.6508000E 02	3.5466999E 01	3.4822063E 01	6.4493608E-01		2.6562179E-02	
		2	7.5009997E 01						
251	5.5277445E-04	1	1.3712200E 02	4.2533000E 01	4.1834371E 01	6.9862843E-01		3.4648807E-02	

LISTING NUMBER TWO (CONTINUED)

			2 7.5009997E 01					
252	3.5704874E-04	1	1.0998300E 02	5.2922000E 01	5.2280267E 01	6.4173269E-01		4.8003942E-02
		2	7.5009997E 01					
253	2.7509369E-04	1	9.6599998E 01	6.0292000E 01	5.9846689E 01	4.4531107E-01		5.9002116E-02
		2	7.5009997E 01					
254	8.6172166E-05	1	5.8146999E 01	1.0772500E 02	1.0816689E 02	-4.4189072E-01		1.6508453E-01
		2	7.5009997E 01					
255	5.2818018E-05	1	4.8975999E 01	1.3759699E 02	1.3813288E 02	-5.3588486E-01		2.4973468E-01
		2	7.5009997E 01					
256	3.3604437E-05	1	4.2574000E 01	1.7250500E 02	1.7402100E 02	-1.5159969E 00		3.4866139E-01
		2	7.5009997E 01					
257	2.4770098E-05	1	3.9176999E 01	2.0092600E 02	2.0335188E 02	-2.4258823E 00		4.2152386E-01
		2	7.5009997E 01					
258	1.2370958E 00	1	7.2927879E 03	8.9907999E-01	8.9629173E-01	2.7882531E-03		1.8610127E-03
		2	8.0019999E 01					
259	8.9009720E-03	1	6.1086500E 02	1.0599400E 01	1.0448374E 01	1.5102565E-01		5.8889460E-03
		2	8.0019999E 01					
260	2.3403296E-01	1	3.1669000E 03	2.0671000E 00	2.0555064E 00	1.1593610E-02		1.6635242E-03
		2	8.0019999E 01					
261	3.7235304E-02	1	1.2585150E 03	5.1823000E 00	5.1284083E 00	5.3891659E-02		3.5338953E-03
		2	8.0019999E 01					
262	4.5203665E-03	1	4.3328699E 02	1.4873500E 01	1.4630378E 01	2.4312210E-01		7.8028051E-03
		2	8.0019999E 01					
263	4.2847338E-03	1	4.2171900E 02	1.5277000E 01	1.5023136E 01	2.5386393E-01		8.0092807E-03
		2	8.0019999E 01					
264	2.5786850E-03	1	3.2566700E 02	1.9692500E 01	1.9346344E 01	3.4615588E-01		1.0647039E-02
		2	8.0019999E 01					
265	1.9839404E-03	1	2.8503000E 02	2.2451000E 01	2.2041957E 01	4.0904260E-01		1.2616692E-02
		2	8.0019999E 01					
266	9.7949879E-04	1	1.9871700E 02	3.1952000E 01	3.1411661E 01	5.4033923E-01		2.0944010E-02
		2	8.0019999E 01					
267	5.2498986E-04	1	1.4519100E 02	4.3643999E 01	4.2930161E 01	7.1383810E-01		3.3327484E-02
		2	8.0019999E 01					
268	3.6228715E-04	1	1.2066700E 02	5.2537999E 01	5.1826686E 01	7.1131325E-01		4.4286547E-02
		2	8.0019999E 01					
269	2.8129226E-04	1	1.0652300E 02	5.9624000E 01	5.9013720E 01	6.1027908E-01		5.4202775E-02
		2	8.0019999E 01					
270	2.0638669E-04	1	9.1975999E 01	6.9607999E 01	6.9073747E 01	5.3425217E-01		7.0043829E-02
		2	8.0019999E 01					
271	1.3255019E-04	1	7.5106000E 01	8.6858000E 01	8.6839828E 01	1.8171310E-02		1.0440235E-01
		2	8.0019999E 01					
272	9.2851603E-05	1	6.4721000E 01	1.0377800E 02	1.0405688E 02	-2.7888107E-01		1.4506350E-01

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		2	8.0019999E 01						
273	5.2651812E-05	1 2	5.2293999E 01 8.0019999E 01	1.3781400E 02	1.3885049E 02	-1.0364933E 00		2.4085931E-01	
274	3.4321683E-05	1 2	4.5416999E 01 8.0019999E 01	1.7069300E 02	1.7284995E 02	-2.1569500E 00		3.3810165E-01	
275	2.4323784E-05	1 2	4.1099000E 01 8.0019999E 01	2.0276100E 02	2.0586872E 02	-3.1077156E 00		4.2653974E-01	
276	1.1898663E 00	1 2	8.0590129E 03 9.0039999E 01	9.1674999E-01	9.1370643E-01	3.0435622E-03		1.9496829E-03	
277	2.7036539E-01	1 2	3.8382900E 03 9.0039999E 01	1.9232000E 00	1.9136396E 00	9.5604211E-03		1.5546444E-03	
278	4.8235474E-02	1 2	1.6186420E 03 9.0039999E 01	4.5531999E 00	4.5151119E 00	3.8088083E-02		2.8791401E-03	
279	8.9974828E-03	1 2	6.9635000E 02 9.0039999E 01	1.0542400E 01	1.0413270E 01	1.2913001E-01		5.4200825E-03	
280	4.2085244E-03	1 2	4.7502699E 02 9.0039999E 01	1.5414700E 01	1.5199437E 01	2.1526313E-01		7.3037580E-03	
281	2.1481578E-03	1 2	3.3857400E 02 9.0039999E 01	2.1575800E 01	2.1249388E 01	3.2641196E-01		1.0477938E-02	
282	1.3808304E-03	1 2	2.7073300E 02 9.0039999E 01	2.6911000E 01	2.6529842E 01	3.8115788E-01		1.4092895E-02	
283	7.8003241E-04	1 2	2.0366700E 02 9.0039999E 01	3.5805000E 01	3.5258799E 01	5.4620123E-01		2.1466078E-02	
284	5.2335773E-04	1 2	1.6714600E 02 9.0039999E 01	4.3712000E 01	4.3058226E 01	6.5377331E-01		2.9226477E-02	
285	3.6897052E-04	1 2	1.4079300E 02 9.0039999E 01	5.2060000E 01	5.1351827E 01	7.0817280E-01		3.8582872E-02	
286	2.7467440E-04	1 2	1.2201400E 02 9.0039999E 01	6.0337999E 01	5.9647725E 01	6.9027519E-01		4.9144598E-02	
287	2.0615562E-04	1 2	1.0652300E 02 9.0039999E 01	6.9646998E 01	6.8977161E 01	6.6983700E-01		6.2623146E-02	
288	1.3652583E-04	1 2	8.8034999E 01 9.0039999E 01	8.5583999E 01	8.5238833E 01	3.4516525E-01		9.0605397E-02	
289	9.9190942E-05	1 2	7.6468999E 01 9.0039999E 01	1.0040700E 02	1.0047703E 02	-7.0031166E-02		1.2209613E-01	
290	5.3616951E-05	1 2	5.9683999E 01 9.0039999E 01	1.3656800E 02	1.3764267E 02	-1.0746670E 00		2.1613288E-01	
291	3.6211601E-05	1 2	5.1826999E 01 9.0039999E 01	1.6617900E 02	1.6818986E 02	-2.0108585E 00		3.0354782E-01	
292	2.8001552E-05	1 2	4.7571999E 01 9.0039999E 01	1.8897700E 02	1.9195644E 02	-2.9794407E 00		3.7278305E-01	
293	4.7265144E-02	1	1.7837680E 03	4.5997000E 00	4.5658888E 00	3.3811152E-02		2.6491740E-03	

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			2	1.0002000E	02						
294	8.6021973E-03	1	7.6010699E	02	1.0781900E	01	1.0663912E	01	1.1798811E-01		5.1428912E-03
		2	1.0002000E	02							
295	4.0342128E-03	1	5.2054700E	02	1.5744200E	01	1.5539137E	01	2.0506263E-01		6.8682859E-03
		2	1.0002000E	02							
296	3.2949881E-03	1	4.6975499E	02	1.7421000E	01	1.7211528E	01	2.0947146E-01		7.5392609E-03
		2	1.0002000E	02							
297	2.4970776E-03	1	4.0951500E	02	2.0011700E	01	1.9734308E	01	2.7739215E-01		8.6719075E-03
		2	1.0002000E	02							
298	1.5348759E-03	1	2.9962000E	02	2.7370300E	01	2.6972472E	01	3.9782786E-01		1.2804195E-02
		2	1.0002000E	02							
299	9.7595245E-04	1	2.5868200E	02	3.2010000E	01	3.1266591E	01	7.4340844E-01		1.5837959E-02
		2	1.0002000E	02							
300	7.7366669E-04	1	2.2836800E	02	3.5951999E	01	3.5464010E	01	4.8798990E-01		1.9169294E-02
		2	1.0002000E	02							
301	2.1375974E-04	1	1.2237100E	02	6.8396998E	01	6.7810267E	01	5.8673096E-01		5.5166954E-02
		2	1.0002000E	02							
302	2.0275865E-04	1	1.1931700E	02	7.0228000E	01	6.9687438E	01	5.4056168E-01		5.7823332E-02
		2	1.0002000E	02							
304	5.6210649E-05	1	6.7853000E	01	1.3337999E	02	1.3459822E	02	-1.2182217E	00	1.8993577E-01
		2	1.0002000E	02							
305	3.4703663E-05	1	5.6621000E	01	1.6975100E	02	1.7184892E	02	-2.0979195E	00	2.9199083E-01
		2	1.0002000E	02							
306	2.6140602E-05	1	5.1141999E	01	1.9558800E	02	1.9956133E	02	-3.9733315E	00	3.7285595E-01
		2	1.0002000E	02							
307	3.1536862E-01	1	5.7617790E	03	1.7807000E	00	1.7773230E	00	3.3769906E-03		1.6723184E-03
		2	1.2503000E	02							
308	3.6675511E-02	1	1.9698180E	03	5.2217000E	00	5.1922893E	00	2.9410660E-02		2.4346415E-03
		2	1.2503000E	02							
309	9.3372720E-03	1	9.9569999E	02	1.0348800E	01	1.0269626E	01	7.9174161E-02		4.3082234E-03
		2	1.2503000E	02							
310	4.5160539E-03	1	6.9395099E	02	1.4880600E	01	1.4745167E	01	1.3543332E-01		5.6599901E-03
		2	1.2503000E	02							
311	2.1517865E-03	1	4.8047099E	02	2.1557600E	01	2.1340189E	01	2.1741080E-01		7.8689237E-03
		2	1.2503000E	02							
312	1.2026993E-03	1	3.6052900E	02	2.8835100E	01	2.8534222E	01	3.0087805E-01		1.1117205E-02
		2	1.2503000E	02							
313	8.1103462E-04	1	2.9686700E	02	3.5114000E	01	3.4779333E	01	3.3466673E-01		1.4751778E-02
		2	1.2503000E	02							
314	3.7594259E-04	1	2.0410300E	02	5.1575000E	01	5.1208361E	01	3.6663818E-01		2.7586211E-02

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			2	1.2503000E 02						
315	2.0966902E-04	1	1.5487200E 02	6.9061000E 01	6.8589814E 01	4.7118568E-01		4.5818059E-02		
		2	1.2503000E 02							
316	9.6077315E-05	1	1.0814400E 02	1.0202100E 02	1.0199232E 02	2.8676033E-02		9.3916905E-02		
		2	1.2503000E 02							
317	5.2541956E-05	1	8.3308998E 01	1.3795800E 02	1.3879267E 02	-8.3466911E-01		1.6600917E-01		
		2	1.2503000E 02							
318	3.3140981E-05	1	6.8999000E 01	1.7370700E 02	1.7628859E 02	-2.5815907E 00		2.5649246E-01		
		2	1.2503000E 02							
319	2.6243550E-05	1	6.3159000E 01	1.9520400E 02	1.9852374E 02	-3.3197384E 00		3.1612615E-01		
		2	1.2503000E 02							
320	2.4688933E-05	1	6.1774999E 01	2.0125600E 02	2.0468115E 02	-3.4251537E 00		3.3322795E-01		
		2	1.2503000E 02							
321	2.6496500E-01	1	6.3425639E 03	1.9427000E 00	1.9396341E 00	3.0658990E-03		1.7436052E-03		
		2	1.5004000E 02							
322	4.9376132E-02	1	2.7441280E 03	4.5003000E 00	4.4835528E 00	1.6747236E-02		1.8362883E-03		
		2	1.5004000E 02							
323	1.1860596E-02	1	1.3491430E 03	9.1822000E 00	9.1297228E 00	5.2477121E-02		3.4243895E-03		
		2	1.5004000E 02							
324	4.9878850E-03	1	8.7710499E 02	1.4159300E 01	1.4070299E 01	8.9000821E-02		4.8497958E-03		
		2	1.5004000E 02							
325	2.4340829E-03	1	6.1530399E 02	2.0269000E 01	2.0117986E 01	1.5101337E-01		6.5502685E-03		
		2	1.5004000E 02							
326	1.2136261E-03	1	4.3702499E 02	2.8705000E 01	2.8469074E 01	2.3592544E-01		9.5371315E-03		
		2	1.5004000E 02							
327	7.9041777E-04	1	3.5375200E 02	3.5569000E 01	3.5339063E 01	2.2993660E-01		1.2815315E-02		
		2	1.5004000E 02							
328	3.7014986E-04	1	2.4549100E 02	5.1977000E 01	5.1586843E 01	3.9015627E-01		2.3545730E-02		
		2	1.5004000E 02							
329	2.1102968E-04	1	1.8786400E 02	6.8837997E 01	6.8449866E 01	3.8813114E-01		3.8720056E-02		
		2	1.5004000E 02							
330	9.6201743E-05	1	1.3046300E 02	1.0195500E 02	1.0199412E 02	-3.9125443E-02		8.0259169E-02		
		2	1.5004000E 02							
331	5.5839943E-05	1	1.0258400E 02	1.3382200E 02	1.3445882E 02	-6.3682556E-01		1.3414467E-01		
		2	1.5004000E 02							
332	3.4323694E-05	1	8.3449999E 01	1.7068800E 02	1.7271396E 02	-2.0259609E 00		2.1306575E-01		
		2	1.5004000E 02							
333	2.5083458E-05	1	7.3521999E 01	1.9966700E 02	2.0304585E 02	-3.3788548E 00		2.8551356E-01		
		2	1.5004000E 02							
334	2.7829577E-01	1	7.5892590E 03	1.8956000E 00	1.8920851E 00	3.5149306E-03		1.8955051E-03		
		2	1.7502000E 02							
335	4.7244599E-02	1	3.1337840E 03	4.6007000E 00	4.5853491E 00	1.5350878E-02		1.6836887E-03		

LISTING NUMBER TWO (CONTINUED)

			2	1.7502000E	02						
336	4.3339550E-02	1	3.0011870E	03	4.8035000E	00	4.7882649E	00	1.5235066E-02		1.7286678E-03
		2	1.7502000E	02							
337	9.7374843E-03	1	1.4285220E	03	1.0133900E	01	1.0082314E	01	5.1585793E-02		3.2948731E-03
		2	1.7502000E	02							
338	4.2687358E-03	1	9.4893999E	02	1.5305600E	01	1.5219401E	01	8.6199045E-02		4.6621018E-03
		2	1.7502000E	02							
339	2.2861079E-03	1	6.9717000E	02	2.0914700E	01	2.0785537E	01	1.2916279E-01		6.1120047E-03
		2	1.7502000E	02							
340	1.3739395E-03	1	5.4271899E	02	2.6978400E	01	2.6807862E	01	1.7053771E-01		7.9391584E-03
		2	1.7502000E	02							
341	8.3227667E-04	1	4.2466900E	02	3.4663000E	01	3.4448562E	01	2.1443748E-01		1.0906059E-02
		2	1.7502000E	02							
342	3.6010423E-04	1	2.8318300E	02	5.2696999E	01	5.2402215E	01	2.9478407E-01		2.1090261E-02
		2	1.7502000E	02							
343	2.1216852E-04	1	2.2013300E	02	6.8652999E	01	6.8350999E	01	3.0200100E-01		3.3698902E-02
		2	1.7502000E	02							
344	9.5018221E-05	1	1.5154100E	02	1.0258800E	02	1.0252358E	02	6.4419746E-02		7.1018420E-02
		2	1.7502000E	02							
345	5.2099172E-05	1	1.1575300E	02	1.3854300E	02	1.3920934E	02	-6.6634560E-01		1.2571505E-01
		2	1.7502000E	02							
346	3.6133281E-05	1	9.8783998E	01	1.6635900E	02	1.6796413E	02	-1.6051311E	00	1.7828276E-01
		2	1.7502000E	02							
347	2.5561278E-05	1	8.5492998E	01	1.9779200E	02	2.0066405E	02	-2.8720512E	00	2.4719285E-01
		2	1.7502000E	02							
348	2.7782657E-01	1	8.6707779E	03	1.8972000E	00	1.8941822E	00	3.0177832E-03		2.0149049E-03
		2	2.0011000E	02							
349	3.3574729E-02	1	3.0214200E	03	5.4575000E	00	5.4434427E	00	1.4057279E-02		1.7255535E-03
		2	2.0011000E	02							
350	1.5199892E-02	1	2.0372330E	03	8.1111000E	00	8.0836403E	00	2.7459621E-02		2.3997072E-03
		2	2.0011000E	02							
351	1.0457952E-02	1	1.6916840E	03	9.7786000E	00	9.7434477E	00	3.5152316E-02		2.8551672E-03
		2	2.0011000E	02							
352	5.7213389E-03	1	1.2540500E	03	1.3220600E	01	1.3169383E	01	5.1217079E-02		3.7436427E-03
		2	2.0011000E	02							
353	4.1015106E-03	1	1.0637160E	03	1.5614500E	01	1.5548163E	01	6.6337109E-02		4.3255299E-03
		2	2.0011000E	02							
354	3.0206185E-03	1	9.1311899E	02	1.8195000E	01	1.8142016E	01	5.2983761E-02		4.9511478E-03
		2	2.0011000E	02							
355	3.0129633E-03	1	9.1332200E	02	1.8218100E	01	1.8137937E	01	8.0163240E-02		4.9501588E-03
		2	2.0011000E	02							
356	2.1129140E-03	1	7.6696799E	02	2.1755000E	01	2.1648685E	01	1.0631442E-01		5.8230631E-03

LISTING NUMBER TWO (CONTINUED)

		2	2.0011000E 02						
357	1.4887226E-03	1	6.4552099E 02	2.5917500E 01	2.5794328E 01	1.2317181E-01		6.9523818E-03	
		2	2.0011000E 02						
358	1.3276676E-03	1	6.1027499E 02	2.7444500E 01	2.7313015E 01	1.3148475E-01		7.4038163E-03	
		2	2.0011000E 02						
359	1.0793069E-03	1	5.5135899E 02	3.0438800E 01	3.0295749E 01	1.4305115E-01		8.3605653E-03	
		2	2.0011000E 02						
360	5.7345563E-04	1	4.0552700E 02	4.1759000E 01	4.1536648E 01	2.2235203E-01		1.2916916E-02	
		2	2.0011000E 02						
361	3.7089160E-04	1	3.2855300E 02	5.1924999E 01	5.1677806E 01	2.4719334E-01		1.8373261E-02	
		2	2.0011000E 02						
362	9.1873426E-05	1	1.6997700E 02	1.0432900E 02	1.0451324E 02	-1.8424129E-01		6.5655023E-02	
		2	2.0011000E 02						
363	5.4684816E-05	1	1.3427000E 02	1.3522800E 02	1.3615707E 02	-9.2907333E-01		1.0776909E-01	
		2	2.0011000E 02						
364	2.5735073E-05	1	9.6665000E 01	1.9712300E 02	2.0068611E 02	-3.5631123E 00		2.2185875E-01	
		2	2.0011000E 02						
365	2.7121086E-01	1	1.0695292E 04	1.9202000E 00	1.9191008E 00	1.0991544E-03		2.2010713E-03	
		2	2.4999000E 02						
366	4.6705009E-02	1	4.4472029E 03	4.6271999E 00	4.6212211E 00	5.9788227E-03		1.5553966E-03	
		2	2.4999000E 02						
367	7.1846449E-03	1	1.7528080E 03	1.1797700E 01	1.1771981E 01	2.5719166E-02		2.8126468E-03	
		2	2.4999000E 02						
368	3.9598221E-03	1	1.3045550E 03	1.5891400E 01	1.5856485E 01	3.4915209E-02		3.7298266E-03	
		2	2.4999000E 02						
369	3.0977679E-03	1	1.1555630E 03	1.7967000E 01	1.7924291E 01	4.2708874E-02		4.1845862E-03	
		2	2.4999000E 02						
370	2.2031758E-03	1	9.7660599E 02	2.1304700E 01	2.1254340E 01	5.0359726E-02		4.9242788E-03	
		2	2.4999000E 02						
371	1.2095269E-03	1	7.2699399E 02	2.8753600E 01	2.8693723E 01	5.9876919E-02		6.7393327E-03	
		2	2.4999000E 02						
372	8.6084384E-04	1	6.1498399E 02	3.4083000E 01	3.4044613E 01	3.8386822E-02		8.2875680E-03	
		2	2.4999000E 02						
373	2.0177485E-04	1	3.0500900E 02	7.0398998E 01	7.0486719E 01	-8.7720871E-02		2.6241392E-02	
		2	2.4999000E 02						
374	9.6218733E-05	1	2.1538200E 02	1.0194600E 02	1.0227119E 02	-3.2518959E-01		5.2149224E-02	
		2	2.4999000E 02						
375	5.4162078E-05	1	1.6539900E 02	1.3587900E 02	1.3680471E 02	-9.2571259E-01		9.0143759E-02	
		2	2.4999000E 02						
376	3.7203385E-05	1	1.3965700E 02	1.6394900E 02	1.6572557E 02	-1.7765675E 00		1.2931515E-01	
		2	2.4999000E 02						
377	2.4476130E-05	1	1.1611000E 02	2.0212900E 02	2.0561690E 02	-3.4878979E 00		1.9349383E-01	

LISTING NUMBER TWO (CONTINUED)

			2	2.4999000E 02							
378	2.6860273E-01	1	1.1629282E 04	1.9295000E 00	1.9287123E 00	7.8772008E-04				2.2723376E-03	
		2	2.7316000E 02								
379	4.3954128E-02	1	4.7128180E 03	4.7697999E 00	4.7658466E 00	3.9533973E-03				1.5697969E-03	
		2	2.7316000E 02								
380	3.9474045E-02	1	4.4656479E 03	5.0332000E 00	5.0303263E 00	2.8736591E-03				1.5570458E-03	
		2	2.7316000E 02								
381	2.1580574E-02	1	3.3077330E 03	6.8072000E 00	6.7977003E 00	9.4996095E-03				1.6504356E-03	
		2	2.7316000E 02								
382	2.0087787E-02	1	3.1907700E 03	7.0556000E 00	7.0478498E 00	7.7501535E-03				1.6827584E-03	
		2	2.7316000E 02								
383	1.8203896E-02	1	3.0368340E 03	7.4117000E 00	7.4065713E 00	5.1286221E-03				1.7347580E-03	
		2	2.7316000E 02								
384	1.2197776E-02	1	2.4897950E 03	9.0544000E 00	9.0422076E 00	1.2192369E-02				2.0285685E-03	
		2	2.7316000E 02								
385	4.3731942E-03	1	1.4968750E 03	1.5121700E 01	1.5094119E 01	2.7580857E-02				3.3141514E-03	
		2	2.7316000E 02								
386	3.5706179E-03	1	1.3534010E 03	1.6735100E 01	1.6710811E 01	2.4289131E-02				3.6566954E-03	
		2	2.7316000E 02								
387	2.1734490E-03	1	1.0590910E 03	2.1449900E 01	2.1417655E 01	3.2244444E-02				4.6582345E-03	
		2	2.7316000E 02								
388	1.4199192E-03	1	8.5894599E 02	2.6538000E 01	2.6494654E 01	4.3345928E-02				5.8057655E-03	
		2	2.7316000E 02								
389	1.2338307E-03	1	8.0164000E 02	2.8469000E 01	2.8424473E 01	4.4527292E-02				6.2756844E-03	
		2	2.7316000E 02								
390	2.7129562E-01	1	1.2835564E 04	1.9199000E 00	1.9191836E 00	7.1640313E-04				2.3531250E-03	
		2	2.9999000E 02								
391	3.9469339E-02	1	4.9047179E 03	5.0335000E 00	5.0301932E 00	3.3067465E-03				1.5845715E-03	
		2	2.9999000E 02								
392	3.0150239E-02	1	4.2885169E 03	5.7591000E 00	5.7551593E 00	3.9406419E-03				1.5541719E-03	
		2	2.9999000E 02								
393	1.0106442E-02	1	2.4897860E 03	9.9471999E 00	9.9357755E 00	1.1424422E-02				2.0405907E-03	
		2	2.9999000E 02								
394	4.5582896E-03	1	1.6770010E 03	1.4811500E 01	1.4792897E 01	1.8602610E-02				3.0023734E-03	
		2	2.9999000E 02								
395	1.9340206E-03	1	1.0977620E 03	2.2738900E 01	2.2706894E 01	3.2005787E-02				4.6156597E-03	
		2	2.9999000E 02								
396	1.3135965E-03	1	9.0731399E 02	2.7591100E 01	2.7556204E 01	3.4896135E-02				5.6775723E-03	
		2	2.9999000E 02								
397	1.2690118E-03	1	8.9194399E 02	2.8071600E 01	2.8039568E 01	3.2031775E-02				5.7892239E-03	
		2	2.9999000E 02								
398	4.4405426E-04	1	5.3350999E 02	4.7455000E 01	4.7468202E 01	-1.3202190E-02				1.1617330E-02	

LISTING NUMBER TWO (CONTINUED)

			2	2.9999000E 02							
399	4.4282166E-04	1	5.3340799E 02	..7521000E 01	4.7477571E 01	4.3428898E-02				1.1620867E-02	
		2	2.9999000E 02								
400	4.2202147E-04	1	5.2014099E 02	4.8678000E 01	4.8728611E 01	-5.0611496E-02				1.2099602E-02	
		2	2.9999000E 02								
401	4.1479834E-04	1	5.1585299E 02	4.9100000E 01	4.9147202E 01	-4.7202587E-02				1.2262744E-02	
		2	2.9999000E 02								
402	4.1009101E-04	1	5.1380099E 02	4.9380999E 01	4.9350076E 01	3.0923843E-02				1.2342346E-02	
		2	2.9999000E 02								
403	4.0099385E-04	1	5.0751299E 02	4.9937999E 01	4.9982328E 01	-4.4329166E-02				1.2592665E-02	
		2	2.9999000E 02								
404	3.9842069E-04	1	5.0638099E 02	5.0099000E 01	5.0097878E 01	1.1215210E-03				1.2638779E-02	
		2	2.9999000E 02								
405	3.1858166E-04	1	4.5410700E 02	5.6025999E 01	5.6086712E 01	-6.0712814E-02				1.5183975E-02	
		2	2.9999000E 02								
406	1.2991645E-04	1	2.9560100E 02	8.7733998E 01	8.8036385E 01	-3.0238724E-01				3.3773533E-02	
		2	2.9999000E 02								
407	1.2831149E-04	1	2.9377800E 02	8.8280997E 01	8.8617752E 01	-3.3675480E-01				3.4187258E-02	
		2	2.9999000E 02								
408	1.2662771E-04	1	2.9199500E 02	8.8865998E 01	8.9193864E 01	-3.2786560E-01				3.4599823E-02	
		2	2.9999000E 02								
409	6.3487008E-05	1	2.1130100E 02	1.2550400E 02	1.2643924E 02	-9.3523979E-01				6.6560643E-02	
		2	2.9999000E 02								
410	2.9338810E-05	1	1.4872200E 02	1.8462000E 02	1.8727597E 02	-2.6559677E 00				1.3970060E-01	
		2	2.9999000E 02								
411	2.4731680E-05	1	1.3761500E 02	2.0108200E 02	2.0481025E 02	-3.7282543E 00				1.6523937E-01	
		2	2.9999000E 02								

LISTING NUMBER THREE USING EQUATION NUMBER TWO (BOULDER, ALL DATA)

TEST = 9.9999999E-07

1	1.0000000E 00	2.7832976E-01		
1	-1.3399883E 05	-1.3399883E 05	-1.3399884E 05	-1.6607692E-02
2	-1.8804180E 00	-1.8804180E 00	-1.8804180E 00	-4.0079380E-08
3	2.3480000E 01	2.3480000E 01	2.3480000E 01	1.6451109E-13
4	6.0000000E 00	6.0000000E 00	6.0000000E 00	7.3742321E-15
5	8.2056999E 01	8.2056999E 01	8.2056999E 01	0.
6	2.6300133E 01	2.6300133E 01	2.6300132E 01	-1.3291497E-06
7	2.1986154E 02	2.1986154E 02	2.1986150E 02	-3.8274535E-05

LISTING NUMBER THREE (CONTINUED)

I	ACK.LJ					BCKJ
1	2.4171875E-07 -9.9573083E-05	-1.1285539E-01	4.6927556E 08	-1.1451620E 09	3.0416249E-03	6.8756988E-05
2	-1.1285539E-01 4.5488706E 01	5.2906457E 04	-2.3767340E 14	7.8887354E 14	-1.3981764E 03	-3.3283695E 01
3	4.6927556E 08 -1.6925365E 11	-2.3767840E 14	2.4561225E 25	-4.6030018E 26	5.2946779E 12	6.4623493E 11
4	-1.1451620E 09 1.7368615E 11	7.8887354E 14	-4.6030018E 26	9.1122864E 27	-6.6780461E 12	-8.5283798E 12
5	3.0416249E-03 -1.4200873E 00	-1.3981764E 03	5.2946779E 12	-6.6780461E 12	4.1999378E 01	8.2015023E-01
6	-9.9573083E-05 4.8638096E-02	4.5488706E 01	-1.6925365E 11	1.7368615E 11	-1.4200873E 00	-2.6563542E-02

VALUE OF DETERMINANT = 2.1182652E-34

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I	INVERSE OF ACK.LJ				
1	5.8413407E 09 1.4073865E 06	1.1515572E 04	8.4995936E-08	4.0022680E-09	-2.1477134E 03
2	1.1515552E 04 5.6326586E 00	2.3784532E-02	1.9023984E-13	8.9826831E-15	1.2577529E-01
3	8.4995629E-08 6.3554873E-11	1.9023855E-13	3.2450179E-24	1.5834466E-25	1.9434629E-12
4	4.0022533E-09 3.0122101E-12	9.9826691E-15	1.5834466E-25	7.8439963E-27	9.2362902E-14
5	-2.1505681E 03 4.0521336E 02	1.2576962E-01	1.9434180E-12	9.2360786E-14	1.7837743E 01
6	1.4073212E 06 9.6752867E 03	5.6325335E 00	6.3553903E-11	3.0121641E-12	4.0521404E 02

2 ITERATIONS

LISTING NUMBER THREE (CONTINUED)

TPZ FIT USING BOULOER EQUATION

THIS PROBLEM CONTAINS 499 DATA POINTS, 2 INDEPENDENT VARIABLE(S), AND 7 PARAMETER(S) (1 OF THEM HELD CONSTANT).
 THE WEIGHTED VARIANCE IS 5.6456198E-04 AND THE UNWEIGHTED SUM OF SQUARES OF THE DEVIATIONS IS 1.6238074E 03.

K	GUESSTIMATE OF K-TH PARAMETER	FINAL VALUE OF K-TH PARAMETER	S.O. OF K-TH PARAMETER	EXACT LEAST SQUARES EQUATIONS	
				FITTED FUNCTION	INPUT DATA
1	-1.3399883E 05	-1.3399880E 05	1.8159843E 03	4.9695275E-03	5.0382828E-03
2	-1.8804180E 00	-1.8804179E 00	3.6644720E-03	-2.4566175E 03	-2.4899004E 03
3	2.3480000E 01	2.3480000E 01	4.2802029E-14	5.4783081E 13	5.5429314E 13
4	6.0000000E 00	6.0000000E 00	2.1043816E-15	-7.7835962E 14	-7.8688806E 14
5	8.2056999E 01	8.2056999E 01	0.	THIS PARAMETER WAS HELD FIXED.	
6	2.6300133E 01	2.6300132E 01	1.0035194E-01	6.3324868E 01	6.4144985E 01
7	2.1986154E 02	2.1986151E 02	2.3371562E 00	-2.0018760E 00	-2.0284384E 00

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MATRIX OF CORRELATIONS BETWEEN FREE PARAMETERS

1	1.000	0.977	0.617	0.591	-0.007	0.187
2	0.977	1.000	0.685	0.658	0.193	0.371
3	0.617	0.685	0.	0.000	0.255	0.359
4	0.591	0.658	0.	0.000	0.247	0.346
5	-0.007	0.193	0.255	0.247	1.000	0.975
6	0.187	0.371	0.359	0.346	0.975	1.000

LISTING NUMBER THREE (CONTINUED)

I	WEIGHT		INDEPENDENT VARIABLE(S)	DEPENDENT VARIABLE	CALCULATED FUNCTION	DEVIATION	STO. DEV. OF PREDICTED MEAN
1	2.4556003E 01	1 2	6.2957069E 03 1.6000000E 01	2.0180000E-01	1.9979151E-01	2.0084847E-03	2.3807911E-03
2	9.3658488E-03	1 2	2.6590000E 01 1.6430000E 01	1.0333000E 01	9.9811115E 00	3.5188842E-01	1.0707656E-01
3	1.4985358E-03	1 2	2.6200000E 01 1.6430000E 01	2.5332500E 01	2.3573917E 01	2.2585826E 00	1.1672434E-01
4	3.7463395E-04	1 2	2.5660000E 01 1.6430000E 01	5.1365000E 01	4.6159959E 01	5.5050402E 00	1.5895513E-01
5	1.6650399E-04	1 2	2.5200000E 01 1.6430000E 01	7.7497498E 01	6.9531927E 01	7.9655714E 00	2.2031762E-01
6	1.3727361E-04	1 2	2.5080000E 01 1.6430000E 01	8.5350578E 01	7.6351656E 01	8.9989223E 00	2.3994228E-01
7	4.8282120E 00	1 2	3.0636080E 03 1.8000000E 01	4.5510000E-01	4.4899870E-01	6.1012990E-03	2.4017456E-03
8	9.3658488E-03	1 2	2.7180000E 01 1.6240000E 01	1.0333000E 01	9.5478363E 00	7.8516364E-01	9.6582934E-02
9	1.4985358E-03	1 2	2.6720000E 01 1.8240000E 01	2.5832500E 01	2.3065651E 01	2.7668490E 00	1.0517108E-01
10	3.7463395E-04	1 2	2.6100000E 01 1.8240000E 01	5.1665000E 01	4.5466139E 01	6.1988611E 00	1.4767076E-01
11	1.6650399E-04	1 2	2.5590000E 01 1.8240000E 01	7.7497498E 01	6.8296007E 01	9.2014914E 00	2.0869770E-01
12	9.3658487E-05	1 2	2.5140000E 01 1.8240000E 01	1.0333000E 02	9.2482042E 01	1.0847959E 01	2.8139692E-01
13	5.9941434E-05	1 2	2.4710000E 01 1.8240000E 01	1.2916250E 02	1.1983888E 02	9.3236208E 00	3.6855217E-01
14	4.1625995E-05	1 2	2.4300000E 01 1.8240000E 01	1.5499500E 02	1.5051003E 02	4.4849739E 00	4.6989782E-01
15	4.0548468E-05	1 2	2.4270000E 01 1.8240000E 01	1.5704090E 02	1.5295156E 02	4.0893345E 00	4.7808685E-01
16	1.2650241E 00	1 2	1.6849350E 03 2.0000000E 01	8.8909999E-01	8.7461817E-01	1.4481820E-02	4.0213109E-03
17	2.1893350E-04	1 2	2.5970000E 01 2.0340000E 01	6.7584000E 01	7.2051578E 01	-4.4675789E 00	2.0791592E-01
18	2.8619589E-04	1 2	2.6187000E 01 2.0340000E 01	5.9110999E 01	6.2800161E 01	-3.6891618E 00	1.9087220E-01
19	4.4090829E-04	1 2	2.6524000E 01 2.0340000E 01	4.7623999E 01	4.9826736E 01	-2.2027369E 00	1.4536031E-01
20	8.0469717E-04	1	2.6921000E 01	3.5252000E 01	3.6475588E 01	-1.2235880E 00	1.1370303E-01

LISTING NUMBER THREE (CONTINUED)

			2	2.0340000E 01							
21	1.8063132E-03	1	2.7349000E 01	2.3529000E 01	2.4109293E 01	-5.8020353E-01				9.2465980E-02	
		2	2.0340000E 01								
22	5.1482710E-03	1	2.7754000E 01	1.3937000E 01	1.4072906E 01	-1.3590658E-01				8.4585131E-02	
		2	2.0340000E 01								
23	8.8699819E-05	1	2.5133000E 01	1.0617900E 02	1.1605623E 02	-9.8772316E 00				3.4652864E-01	
		2	2.0380000E 01								
24	1.2505793E-04	1	2.5472000E 01	8.9421999E 01	9.6744596E 01	-7.3225965E 00				2.8407291E-01	
		2	2.0380000E 01								
25	1.7955935E-04	1	2.5808000E 01	7.4626999E 01	7.9868788E 01	-5.2417879E 00				2.3130924E-01	
		2	2.0380000E 01								
26	3.4212409E-04	1	2.6352000E 01	5.4064000E 01	5.6637335E 01	-2.5733352E 00				1.6332441E-01	
		2	2.0380000E 01								
27	5.7720920E-04	1	2.6724000E 01	4.1622999E 01	4.3236105E 01	-1.6131053E 00				1.2865054E-01	
		2	2.0380000E 01								
28	1.6347314E-03	1	2.7323000E 01	2.4733000E 01	2.5168024E 01	-4.3502426E-01				9.3584822E-02	
		2	2.0380000E 01								
29	1.0062290E-02	1	2.7960000E 01	9.9690000E 00	9.8599319E 00	1.0906804E-01				8.4152818E-02	
		2	2.0380000E 01								
30	2.2418323E 00	1	2.3806670E 03	6.6788000E-01	6.5768774E-01	1.0192260E-02				2.9345075E-03	
		2	2.0590000E 01								
31	1.5527413E 00	1	1.9523740E 03	8.0250999E-01	7.9015995E-01	1.2350038E-02				3.5175266E-03	
		2	2.0590000E 01								
32	1.0101973E 00	1	1.5434100E 03	9.9493999E-01	9.7822220E-01	1.6717792E-02				4.3449312E-03	
		2	2.0590000E 01								
33	2.2856052E 01	1	7.9552519E 03	2.0917000E-01	2.0688803E-01	2.2819676E-03				2.6495945E-03	
		2	2.0590000E 01								
34	1.6718715E 00	1	2.0339030E 03	7.7339000E-01	7.6098377E-01	1.2406223E-02				3.3874484E-03	
		2	2.0590000E 01								
35	4.7185096E 00	1	3.5215920E 03	4.6036000E-01	4.5467995E-01	5.6800395E-03				2.2305349E-03	
		2	2.0590000E 01								
36	4.0855344E-01	1	1.0087230E 03	1.5645000E 00	1.5360150E 00	2.8485015E-02				6.0944781E-03	
		2	2.2000000E 01								
37	7.2926642E-01	1	1.4477370E 03	1.1710000E 00	1.1507183E 00	2.0281658E-02				4.5914654E-03	
		2	2.2580000E 01								
38	3.5762145E-01	1	9.6645099E 02	1.6722000E 00	1.6439470E 00	2.8253004E-02				6.2849643E-03	
		2	2.2580000E 01								
39	4.2007269E-01	1	1.0626740E 03	1.5429000E 00	1.5144344E 00	2.8465644E-02				5.8673491E-03	
		2	2.2580000E 01								
40	9.9295744E-01	1	1.7135340E 03	1.0935400E 00	9.8689196E-01	1.6648024E-02				3.9624204E-03	
		2	2.2580000E 01								
41	2.1545110E 00	1	2.5908580E 03	6.8127999E-01	6.7136056E-01	9.9194273E-03				2.7270671E-03	

LISTING NUMBER THREE (CONTINUED)

			2	2.2580000E 01							
42	5.9572644E 00	1	4.4021379E 03	4.0971000E-01	4.0456419E-01	5.1458031E-03					
		2	2.2580000E 01								
43	1.1599418E-02	1	2.9187000E 01	9.2850000E 00	9.1694031E 00	1.1559689E-01				7.4169184E-02	
		2	2.2960000E 01								
44	3.7628615E-03	1	2.8732000E 01	1.6302000E 01	1.6540743E 01	-2.3874307E-01				7.2569546E-02	
		2	2.2960000E 01								
45	9.2102815E-05	1	2.5689000E 01	1.0419900E 02	1.1224426E 02	-8.0452595E 00				3.1924131E-01	
		2	2.2960000E 01								
46	1.9409968E-03	1	2.8360000E 01	2.2698000E 01	2.3508711E 01	-8.1071091E-01				7.6812511E-02	
		2	2.2960000E 01								
47	1.4839146E-04	1	2.6223000E 01	8.2090999E 01	8.7215936E 01	-5.1249371E 00				2.3848061E-01	
		2	2.2960000E 01								
48	2.5673887E-04	1	2.6805000E 01	6.2409999E 01	6.4868000E 01	-2.4580002E 00				1.7045818E-01	
		2	2.2960000E 01								
49	4.8418204E-04	1	2.7376000E 01	4.5446000E 01	4.6999445E 01	-1.5534453E 00				1.2149699E-01	
		2	2.2960000E 01								
50	9.3520000E-04	1	2.7890000E 01	3.2700000E 01	3.3720115E 01	-1.0201159E 00				9.1830653E-02	
		2	2.2960000E 01								
51	4.9046093E-01	1	1.2939980E 03	1.4279000E 00	1.4068362E 00	2.1063790E-02				5.0403402E-03	
		2	2.4650000E 01								
52	1.4450749E-01	1	6.3840899E 02	2.6306000E 00	2.5908529E 00	3.9747059E-02				8.3004502E-03	
		2	2.4650000E 01								
53	1.7788400E-01	1	7.2332299E 02	2.3710000E 00	2.3378464E 00	3.3153594E-02				7.6499661E-03	
		2	2.4650000E 01								
54	2.2103703E-01	1	8.2778599E 02	2.1270000E 00	2.0861455E 00	4.0854514E-02				6.9965223E-03	
		2	2.4650000E 01								
55	4.7483799E-01	1	1.2781840E 03	1.4512000E 00	1.4225738E 00	2.8626218E-02				5.0905434E-03	
		2	2.4650000E 01								
56	1.3849444E 01	1	7.3811919E 03	2.6871000E-01	2.6787860E-01	8.3139539E-04				2.5594190E-03	
		2	2.4650000E 01								
57	1.5435548E-01	1	6.4051199E 02	2.5453000E 00	2.4971560E 00	4.8143983E-02				8.2819169E-03	
		2	2.4000000E 01								
58	9.8224014E-01	1	1.8889990E 03	1.0090000E 00	9.9327385E-01	1.5726127E-02				3.6274261E-03	
		2	2.4650000E 01								
59	7.2445635E-04	1	2.8887000E 01	3.7153000E 01	3.6828195E 01	3.2480431E-01				8.7106695E-02	
		2	2.5810000E 01								
60	4.1838652E-04	1	2.8282000E 01	4.8689000E 01	4.9060560E 01	-1.7156029E-01				1.1334714E-01	
		2	2.5810000E 01								
61	8.7822552E-05	1	2.6318000E 01	1.0670800E 02	1.1117841E 02	-4.4704132E 00				2.9810596E-01	
		2	2.5810000E 01								
62	1.5238945E-04	1	2.7051000E 01	8.1006999E 01	8.3066034E 01	-2.0590343E 00				2.0883321E-01	

LISTING NUMBER THREE (CONTINUED)

			2 2.5810000E 01						
63	2.5015465E-04	1	2.7676000E 01	6.3225999E 01	6.4051253E 01	-8.2525063E-01		1.5281338E-01	
		2	2.5810000E 01						
64	1.8107741E-03	1	2.9774000E 01	2.3500000E 01	2.2790300E 01	7.0969963E-01		6.9949138E-02	
		2	2.5810000E 01						
65	3.7312092E-03	1	3.0340000E 01	1.6371000E 01	1.5756784E 01	6.1421537E-01		6.8943498E-02	
		2	2.5810000E 01						
66	1.0785434E-02	1	3.0988000E 01	9.6289999E 00	9.1645317E 00	4.6446824E-01		7.2614998E-02	
		2	2.5810000E 01						
67	6.5793448E-02	1	4.2300599E 02	3.8986000E 00	3.8275910E 00	7.1018964E-02		1.1169143E-02	
		2	2.6000000E 01						
68	1.0080280E 00	1	2.0952600E 03	9.9600999E-01	9.8470742E-01	1.1302575E-02		3.2979585E-03	
		2	2.6750000E 01						
69	6.1735217E-02	1	4.2182000E 02	4.0247000E 00	3.9908702E 00	3.3829749E-02		1.1191832E-02	
		2	2.6750000E 01						
70	8.4421678E-02	1	5.1956899E 02	3.4417000E 00	3.3976700E 00	4.4029951E-02		9.5413835E-03	
		2	2.6750000E 01						
71	1.1501865E-01	1	6.3053699E 02	2.9486000E 00	2.9020510E 00	4.6548992E-02		8.3704740E-03	
		2	2.6750000E 01						
72	3.7784499E 00	1	4.1698899E 03	5.1445000E-01	5.0885201E-01	5.5979863E-03		2.1467581E-03	
		2	2.6750000E 01						
73	2.4097684E-01	1	9.7246100E 02	2.0371000E 00	1.9967822E 00	4.0317833E-02		6.2623900E-03	
		2	2.6750000E 01						
74	1.0404258E 00	1	2.1354980E 03	9.8038000E-01	9.6714705E-01	1.3232946E-02		3.2406980E-03	
		2	2.6750000E 01						
75	3.0832770E-02	1	2.8555399E 02	5.6950000E 00	5.6047735E 00	9.0226471E-02		1.6576503E-02	
		2	2.8000000E 01						
76	1.0415941E-04	1	2.7192000E 01	9.7982999E 01	9.9990203E 01	-2.0072041E 00		2.4935138E-01	
		2	2.8170000E 01						
77	1.7408176E-04	1	2.7981000E 01	7.5792000E 01	7.6429834E 01	-6.3783455E-01		1.7895368E-01	
		2	2.8170000E 01						
78	3.3103578E-04	1	2.8942000E 01	5.4962000E 01	5.4747393E 01	2.1460724E-01		1.2186286E-01	
		2	2.8170000E 01						
79	5.7219432E-04	1	2.9751000E 01	4.1805000E 01	4.0968088E 01	8.3691168E-01		9.3006985E-02	
		2	2.8170000E 01						
80	1.0060851E-03	1	3.0508000E 01	5.1527000E 01	3.0875324E 01	6.5167570E-01		7.8492101E-02	
		2	2.8170000E 01						
81	2.0599312E-03	1	3.1430000E 01	2.2033000E 01	2.1387174E 01	6.4582539E-01		7.2170781E-02	
		2	2.8170000E 01						
82	4.5721701E-03	1	3.2321999E 01	1.4769000E 01	1.4450905E 01	3.3809507E-01		7.2451574E-02	
		2	2.8170000E 01						
83	1.2070530E-02	1	3.3271000E 01	9.1020000E 00	8.8985653E 00	2.0343471E-01		7.5266783E-02	

LISTING NUMBER THREE (CONTINUED)

		2	2.817000E 01					
84	2.7269131E-02	1 2	2.7248700E 02 2.8830000E 01	6.0556999E 00	6.0491415E 00	6.5584779E-03	1.7510294E-02	
85	3.2937968E-02	1 2	3.1608000E 02 2.8830000E 01	5.5100000E 00	5.4746939E 00	3.5303056E-02	1.4745979E-02	
86	4.0733126E-02	1 2	3.6903600E 02 2.8830000E 01	4.9548000E 00	4.8954504E 00	5.9349597E-02	1.2591360E-02	
87	1.0161736E 00	1 2	2.2902990E 03 2.8830000E 01	9.9201000E-01	9.8044648E-01	1.1563510E-02	3.0404630E-03	
88	1.2246081E-01	1 2	7.2875800E 02 2.8830000E 01	2.8576000E 00	2.8113629E 00	4.6237051E-02	7.6183867E-03	
89	5.8223409E-02	1 2	4.6615800E 02 2.8830000E 01	4.1443000E 00	4.0868637E 00	5.7436287E-02	1.0328319E-02	
90	2.7503611E-01	1 2	1.1378750E 03 2.8830000E 01	1.9068000E 00	1.8877893E 00	1.9010693E-02	5.5800963E-03	
91	9.2420073E-01	1 2	2.1765040E 03 2.8830000E 01	1.0402000E 00	1.0292593E 00	1.0940656E-02	3.1851892E-03	
92	2.9116924E 00	1 2	3.9449530E 03 2.8830000E 01	5.8604000E-01	5.8051856E-01	5.5214390E-03	2.1598900E-03	
93	1.5586011E-02	1 2	1.9279300E 02 3.0000000E 01	8.0100000E 00	7.9215685E 00	8.8431478E-02	2.7441591E-02	
94	9.9750471E-05	1 2	2.7724000E 01 3.0110000E 01	1.0012500E 02	1.0047019E 02	-3.4519196E-01	2.4288362E-01	
95	1.6982060E-04	1 2	2.8669000E 01 3.0110000E 01	7.6736999E 01	7.6107294E 01	6.2970543E-01	1.7354356E-01	
96	3.2519953E-04	1 2	2.9823000E 01 3.0110000E 01	5.5452999E 01	5.4513870E 01	9.3912935E-01	1.2093455E-01	
97	5.7290673E-04	1 2	3.0846000E 01 3.0110000E 01	4.1779000E 01	4.0716543E 01	1.0624566E 00	9.4903544E-02	
98	9.7000393E-04	1 2	3.1775000E 01 3.0110000E 01	3.2108000E 01	3.1319895E 01	7.8810501E-01	8.2433388E-02	
99	1.8348994E-03	1 2	3.2903000E 01 3.0110000E 01	2.3345000E 01	2.2842422E 01	5.0257730E-01	7.5817236E-02	
100	4.2490580E-03	1 2	3.4415000E 01 3.0110000E 01	1.5341000E 01	1.5044643E 01	2.9635656E-01	7.3874981E-02	
101	1.0564856E-02	1 2	3.6202999E 01 3.0110000E 01	9.7290000E 00	9.3020592E 00	4.2694080E-01	7.5051302E-02	
102	2.7025806E-02	1 2	3.1907499E 02 3.0860000E 01	6.0829000E 00	6.0063037E 00	7.6596320E-02	1.4559453E-02	
103	1.3987891E-02	1 2	1.8564900E 02 3.0860000E 01	8.4552000E 00	8.5129719E 00	-5.7771921E-02	2.8792482E-02	
104	1.5740085E-02	1	2.0894000E 02	7.9707000E 00	7.9712519E 00	-5.5193901E-04	2.4549516E-02	

LISTING NUMBER THREE (CONTINUED)

			2	3.0860000E 01						
105	4.3475207E-02	1	4.3688499E 02	4.7959999E 00	4.7074717E 00	8.8528275E-02		1.0859752E-02		
		2	3.0860000E 01							
106	1.0088990E 00	1	2.4563570E 03	9.9557999E-01	9.8554193E-01	1.0039033E-02		2.8567234E-03		
		2	3.0860000E 01							
107	1.0957899E-01	1	7.5080299E 02	3.0209000E 00	2.9690840E 00	5.1816016E-02		7.4741009E-03		
		2	3.0860000E 01							
108	1.7929978E-02	1	2.3649900E 02	7.4681000E 00	7.3881712E 00	7.9928756E-02		2.0842215E-02		
		2	3.0860000E 01							
109	4.5621997E-02	1	4.5010500E 02	4.6817999E 00	4.5949376E 00	8.6862385E-02		1.0606865E-02		
		2	3.0860000E 01							
110	2.5730634E-01	1	1.2004670E 03	1.9714000E 00	1.9392360E 00	3.2163963E-02		5.3559468E-03		
		2	3.0860000E 01							
111	1.0273485E 00	1	2.4823640E 03	9.8659999E-01	9.7561649E-01	1.0983497E-02		2.8305462E-03		
		2	3.0860000E 01							
112	4.0639569E 00	1	5.0162280E 03	4.9604999E-01	4.9272180E-01	3.3281930E-03		2.1916903E-03		
		2	3.0860000E 01							
113	7.2973996E-05	1	2.7587000E 01	1.1706200E 02	1.1802431E 02	-9.6231365E-01		2.9075464E-01		
		2	3.1620000E 01							
114	1.1747229E-04	1	2.8527000E 01	9.2263999E 01	9.1801149E 01	4.6285057E-01		2.1397421E-01		
		2	3.1620000E 01							
115	2.1250889E-04	1	2.9720000E 01	6.8597999E 01	6.7604187E 01	9.9381256E-01		1.5136461E-01		
		2	3.1620000E 01							
116	3.7377977E-04	1	3.0910000E 01	5.1724000E 01	5.0553806E 01	1.1701937E 00		1.1462151E-01		
		2	3.1620000E 01							
117	7.2119155E-04	1	3.2323000E 01	3.7237000E 01	3.6518160E 01	7.1884012E-01		9.1206579E-02		
		2	3.1620000E 01							
118	1.4961602E-03	1	3.4027000E 01	2.5853000E 01	2.5467573E 01	3.8542676E-01		7.8533905E-02		
		2	3.1620000E 01							
119	2.4863545E-03	1	3.5326999E 01	2.0054000E 01	1.9869205E 01	1.8479443E-01		7.4474168E-02		
		2	3.1620000E 01							
120	5.3741228E-03	1	3.7774000E 01	1.3641000E 01	1.3407772E 01	2.3322785E-01		7.2639016E-02		
		2	3.1620000E 01							
121	4.8840717E-04	1	3.2029999E 01	4.5249000E 01	4.5248235E 01	7.6389313E-04		1.0631333E-01		
		2	3.2580000E 01							
122	2.8612055E-03	1	3.7320000E 01	1.8695000E 01	1.8967222E 01	-2.7222228E-01		7.2525820E-02		
		2	3.2580000E 01							
123	5.1667907E-03	1	4.0376999E 01	1.3912000E 01	1.3981536E 01	-6.9535971E-02		7.1913528E-02		
		2	3.2580000E 01							
124	7.5365129E-03	1	4.6622999E 01	1.1519000E 01	1.0767416E 01	7.5158393E-01		7.8481166E-02		
		2	3.2580000E 01							
125	7.3712649E-05	1	2.7887000E 01	1.1647400E 02	1.1713984E 02	-6.6583729E-01		2.8496465E-01		

LISTING NUMBER THREE (CONTINUED)

		2	3.2580000E 01						
126	1.5033734E-04	1	2.9397000E 01	8.1557999E 01	8.0786499E 01	7.7150059E-01		1.8385979E-01	
		2	3.2580000E 01						
127	3.2551644E-04	1	3.1134000E 01	5.5425999E 01	5.4564691E 01	8.6130810E-01		1.2384571E-01	
		2	3.2580000E 01						
128	7.2274348E-04	1	3.3090000E 01	3.7196999E 01	3.6771566E 01	4.2543316E-01		9.2521489E-02	
		2	3.2580000E 01						
129	1.1159416E-03	1	3.4268999E 01	2.9935000E 01	2.9748590E 01	1.8640947E-01		8.2886209E-02	
		2	3.2580000E 01						
130	1.7845556E-03	1	3.5734000E 01	2.3672000E 01	2.3534977E 01	1.3702297E-01		7.6040545E-02	
		2	3.2580000E 01						
131	4.6349736E-02	1	5.0259399E 02	4.6449000E 00	4.5640489E 00	8.0851018E-02		9.7676761E-03	
		2	3.3000000E 01						
132	7.5635412E-03	1	1.2600000E 02	1.1498400E 01	1.1644123E 01	-1.4572322E-01		4.7164147E-02	
		2	3.3000000E 01						
133	8.2553043E-03	1	1.4220300E 02	1.1906100E 01	1.1068433E 01	-6.2338233E-02		4.0592466E-02	
		2	3.3000000E 01						
134	2.6608622E-02	1	3.5821500E 02	6.1303999E 00	6.0334924E 00	9.6907496E-02		1.2914546E-02	
		2	3.3000000E 01						
135	1.0042737E-02	1	1.7439100E 02	9.9786999E 00	9.9632772E 00	1.5422702E-02		3.1068476E-02	
		2	3.3000000E 01						
136	1.2428674E-02	1	2.0975700E 02	8.9698999E 00	8.9047726E 00	6.5127254E-02		2.4266308E-02	
		2	3.3000000E 01						
137	1.7515704E-02	1	2.7162900E 02	7.5559000E 00	7.4516245E 00	1.0427552E-01		1.7444077E-02	
		2	3.3000000E 01						
138	1.0274526E 00	1	2.6709240E 03	9.8654999E-01	9.7563195E-01	1.0918044E-02		2.6609065E-03	
		2	3.3000000E 01						
139	1.1387266E-01	1	8.3572899E 02	2.9634000E 00	2.9153947E 00	4.8005313E-02		6.9636971E-03	
		2	3.3000000E 01						
140	2.7177671E-01	1	1.3358360E 03	1.9182000E 00	1.8899837E 00	2.8216258E-02		4.9182452E-03	
		2	3.3000000E 01						
141	8.5756114E-03	1	1.4969500E 02	1.0798600E 01	1.0802535E 01	-3.9346218E-03		3.8001653E-02	
		2	3.3000000E 01						
142	2.0363339E-02	1	3.0282400E 02	7.0077000E 00	6.8734145E 00	1.3428551E-01		1.5376921E-02	
		2	3.3000000E 01						
143	5.9354086E-03	1	6.6952999E 01	1.2980000E 01	1.2659636E 01	3.2036389E-01		8.1322942E-02	
		2	3.3189999E 01						
144	4.2778447E-02	1	4.9961699E 02	4.8349000E 00	4.7534494E 00	8.1450522E-02		9.8091990E-03	
		2	3.3959999E 01						
145	1.0712108E-02	1	2.0209300E 02	9.6618999E 00	9.5642954E 00	9.7604513E-02		2.5425473E-02	
		2	3.3959999E 01						
146	5.7015698E-03	1	9.9572999E 01	1.3243500E 01	1.3493391E 01	-2.4989057E-01		6.0763776E-02	

LISTING NUMBER THREE (CONTINUED)

			2	3.3959999E 01							
147	4.7167348E-03	1	5.4524000E 01	1.4560600E 01	1.4145551E 01	4.1504920E-01				8.0929521E-02	
		2	3.3959999E 01								
148	4.3889111E-03	1	4.8507000E 01	1.5094600E 01	1.4789701E 01	3.0489945E-01				7.6732513E-02	
		2	3.3959999E 01								
149	3.2662767E-03	1	4.2783000E 01	1.7497400E 01	1.7298674E 01	1.9872618E-01				7.1094773E-02	
		2	3.3959999E 01								
150	2.5301449E-03	1	4.0209999E 01	1.9880500E 01	2.0009142E 01	-1.2864208E-01				7.0552363E-02	
		2	3.3959999E 01								
151	1.3567166E-03	1	3.6878000E 01	2.7149100E 01	2.6908571E 01	2.4052858E-01				7.7101287E-02	
		2	3.3959999E 01								
152	9.4638445E-04	1	3.5426999E 01	3.2506200E 01	3.2036949E 01	4.6925068E-01				8.4623621E-02	
		2	3.3959999E 01								
153	5.6722831E-04	1	3.3702999E 01	4.1987600E 01	4.0982714E 01	1.0048862E 00				9.9705027E-02	
		2	3.3959999E 01								
154	2.6830406E-04	1	3.1545000E 01	6.1050099E 01	5.9278900E 01	1.7711987E 00				1.3523388E-01	
		2	3.3959999E 01								
155	1.7414977E-04	1	3.0408000E 01	7.5777199E 01	7.3979841E 01	1.7973585E 00				1.6787996E-01	
		2	3.3959999E 01								
156	1.0659727E-04	1	2.9232000E 01	9.6856097E 01	9.4852496E 01	2.0036001E 00				2.1990230E-01	
		2	3.3959999E 01								
157	6.0264336E-05	1	2.7941000E 01	1.2881600E 02	1.2744576E 02	1.3702374E 00				3.1187629E-01	
		2	3.3959999E 01								
158	3.9134181E-05	1	2.6975000E 01	1.5985340E 02	1.6144166E 02	-1.5882568E 00				4.1809570E-01	
		2	3.3959999E 01								
159	2.5967322E-05	1	2.6109000E 01	1.9623950E 02	2.0184183E 02	-5.6023312E 00				5.5397132E-01	
		2	3.3959999E 01								
160	2.7483947E-05	1	2.6598000E 01	1.9074820E 02	1.8861310E 02	2.1350994E 00				5.0189922E-01	
		2	3.5100000E 01								
161	1.0243561E 00	1	2.8430020E 03	9.8803998E-01	9.7960579E-01	8.4341987E-03				2.5336228E-03	
		2	3.5100000E 01								
162	2.4396164E-01	1	1.3547860E 03	2.0246000E 00	1.9948359E 00	2.9764101E-02				4.8632480E-03	
		2	3.5100000E 01								
163	4.5487819E-02	1	5.4358299E 02	4.6887000E 00	4.6005208E 00	8.8179111E-02				9.2491926E-03	
		2	3.5100000E 01								
164	2.7175708E-02	1	4.0401599E 02	6.0660999E 00	5.9317341E 00	1.3436580E-01				1.1569076E-02	
		2	3.5100000E 01								
165	1.8081223E-02	1	3.1401899E 02	7.4367999E 00	7.2835773E 00	1.5322262E-01				1.4740624E-02	
		2	3.5100000E 01								
166	1.1996870E-02	1	2.3979500E 02	9.1299000E 00	8.9455141E 00	1.8438590E-01				2.0274985E-02	
		2	3.5100000E 01								
167	7.8154128E-03	1	1.7302600E 02	1.1311600E 01	1.1172051E 01	1.3954854E-01				3.1145037E-02	

LISTING NUMBER THREE (CONTINUED)

			2	3.510000E 01						
168	4.8674507E-03	1	1.0684800E 02	1.4333400E 01	1.4342457E 01	-1.6056895E-02				5.6047367E-02
		2	3.5100000E 01							
169	3.7965084E-03	1	6.1086000E 01	1.6229600E 01	1.6504003E 01	-2.7440310E-01				7.9959961E-02
		2	3.5100000E 01							
170	3.0672706E-03	1	5.0482000E 01	1.8056100E 01	1.7737867E 01	3.1823254E-01				7.6076662E-02
		2	3.5100000E 01							
171	2.4749400E-03	1	4.5371000E 01	2.0101000E 01	1.9677040E 01	4.2395973E-01				7.1469601E-02
		2	3.5100000E 01							
172	1.7232061E-03	1	4.0976000E 01	2.4089700E 01	2.3701673E 01	3.8802648E-01				7.0603642E-02
		2	3.5100000E 01							
173	1.0736207E-03	1	3.7786000E 01	3.0519300E 01	2.9887430E 01	6.3186979E-01				7.8274879E-02
		2	3.5100000E 01							
174	5.9609883E-04	1	5.5321000E 01	4.0958200E 01	3.8621448E 01	2.3367515E 00				9.4156139E-02
		2	3.5100000E 01							
175	4.3538185E-04	1	3.3892000E 01	4.7925299E 01	4.6451609E 01	1.4736910E 00				1.0964563E-01
		2	3.5100000E 01							
176	3.0015311E-04	1	3.2599000E 01	5.7720299E 01	5.6255479E 01	1.4648199E 00				1.2984142E-01
		2	3.5100000E 01							
177	1.9842476E-04	1	3.1448000E 01	7.0990800E 01	6.8072262E 01	2.9185381E 00				1.5547363E-01
		2	3.5100000E 01							
178	1.1181182E-04	1	2.9835000E 01	9.4570599E 01	9.1877362E 01	2.6927366E 00				2.1216908E-01
		2	3.5100000E 01							
179	6.3287161E-05	1	2.8415000E 01	1.2570200E 02	1.2352999E 02	2.1720095E 00				2.9784589E-01
		2	3.5100000E 01							
180	3.8925459E-05	1	2.7263000E 01	1.6028140E 02	1.6060610E 02	-3.2470131E-01				4.1033013E-01
		2	3.5100000E 01							
181	3.3690687E-02	1	5.0555199E 02	5.4481000E 00	5.3299042E 00	1.1819577E-01				9.7280765E-03
		2	3.7609999E 01							
182	7.1587722E-03	1	1.9419600E 02	1.1819000E 01	1.1586365E 01	2.3263526E-01				2.6511766E-02
		2	3.7609999E 01							
183	5.0654369E-03	1	9.3651999E 01	1.8061500E 01	1.7992577E 01	6.8922997E-02				6.2401072E-02
		2	3.7609999E 01							
184	2.2958673E-03	1	6.7655999E 01	2.0870200E 01	2.0815127E 01	5.5072546E-02				7.5654607E-02
		2	3.7609999E 01							
185	1.7381384E-03	1	5.2746999E 01	2.3986000E 01	2.4023682E 01	-3.7681818E-02				7.3913752E-02
		2	3.7609999E 01							
186	1.4028776E-03	1	4.7301999E 01	2.6698700E 01	2.6760556E 01	-6.1856270E-02				7.0771546E-02
		2	3.7609999E 01							
187	1.0768220E-03	1	4.3227000E 01	3.0473900E 01	3.0574853E 01	-1.0095310E-01				7.1799105E-02
		2	3.7609999E 01							
188	7.9619140E-04	1	4.0395000E 01	3.5439800E 01	3.5087902E 01	3.5189772E-01				7.8726411E-02

LISTING NUMBER THREE (CONTINUED)

			2	3.7609999E 01						
189	6.2878271E-04	1	3.8569000E 01	3.9879500E 01	3.9427866E 01	4.5163393E-01		8.8058221E-02		
		2	3.7609999E 01							
190	3.0612738E-04	1	3.4682000E 01	5.7154300E 01	5.5792232E 01	1.3620672E 00		1.2737099E-01		
		2	3.7609999E 01							
191	1.9289105E-04	1	3.2770000E 01	7.2001899E 01	7.0401834E 01	1.6000652E 00		1.6197086E-01		
		2	3.7609999E 01							
192	1.0901190E-04	1	3.0894000E 01	9.5777397E 01	9.2719409E 01	3.0579882E 00		2.1544915E-01		
		2	3.7609999E 01							
193	6.3288673E-05	1	2.9284000E 01	1.2570050E 02	1.2232392E 02	3.3765783E 00		2.9177266E-01		
		2	3.7609999E 01							
194	3.8561897E-05	1	2.7901000E 01	1.6103519E 02	1.6025645E 02	7.7874565E-01		4.0064098E-01		
		2	3.7609999E 01							
195	2.5121190E-05	1	2.6934000E 01	1.9951699E 02	1.9716525E 02	2.3517418E 00		5.1719493E-01		
		2	3.7609999E 01							
196	3.0895429E-03	1	1.2192300E 02	1.7990900E 01	1.7756665E 01	2.3423433E-01		4.7065309E-02		
		2	4.0089999E 01							
197	7.0736505E-03	1	2.1990900E 02	1.1889900E 01	1.1623142E 01	2.6675749E-01		2.2399884E-02		
		2	4.0089999E 01							
198	3.3086721E-02	1	5.4507399E 02	5.4976000E 00	5.3781821E 00	1.1941791E-01		9.2375808E-03		
		2	4.0089999E 01							
199	2.4171194E-01	1	1.5679450E 03	2.0340000E 00	2.0022886E 00	3.1711400E-02		4.2976191E-03		
		2	4.0089999E 01							
200	1.0880142E 00	1	3.3772820E 03	9.5869999E-01	9.5064291E-01	8.0570801E-03		2.2735524E-03		
		2	4.0089999E 01							
201	1.4518694E-02	1	3.4194899E 02	8.2991999E 00	8.0982541E 00	2.0094585E-01		1.3445789E-02		
		2	4.0089999E 01							
202	4.8970500E-02	1	6.7489899E 02	4.5189000E 00	4.4282749E 00	9.0625107E-02		8.0277146E-03		
		2	4.0089999E 01							
203	1.7636776E-03	1	7.4635999E 01	2.3811700E 01	2.3900063E 01	-8.8363171E-02		7.1018469E-02		
		2	4.0089999E 01							
204	1.3936440E-03	1	6.1734999E 01	2.6787000E 01	2.6968416E 01	-1.8141627E-01		7.4053742E-02		
		2	4.0089999E 01							
205	1.0779183E-03	1	5.2964000E 01	3.0458400E 01	3.0549596E 01	-9.1196060E-02		7.2262400E-02		
		2	4.0089999E 01							
206	8.0774639E-04	1	4.6607000E 01	3.5185399E 01	3.5396143E 01	-2.1074343E-01		7.2670966E-02		
		2	4.0089999E 01							
207	6.1950526E-04	1	4.2955000E 01	4.0177000E 01	4.0269189E 01	-9.2189312E-02		7.9892796E-02		
		2	4.0089999E 01							
208	6.0707024E-04	1	4.2851999E 01	4.0586399E 01	4.0444038E 01	1.4236116E-01		8.0248618E-02		
		2	4.0089999E 01							
209	3.9503393E-04	1	3.8811000E 01	5.0313299E 01	4.9962149E 01	3.5115099E-01		1.0418689E-01		

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			2	4.0089999E 01							
210	2.7104974E-04	1	3.6370000E 01	6.0740099E 01	5.9721672E 01	1.0184269E 00				1.3110639E-01	
		2	4.0089999E 01								
211	1.5308940E-04	1	3.3557000E 01	8.0821600E 01	7.8356186E 01	2.4654140E 00				1.8005836E-01	
		2	4.0089999E 01								
212	9.6509898E-05	1	3.1655000E 01	1.0179210E 02	9.8972764E 01	2.8193340E 00				2.3184744E-01	
		2	4.0089999E 01								
213	5.7297611E-05	1	2.9894000E 01	1.3210880E 02	1.2821276E 02	3.8960419E 00				3.0689404E-01	
		2	4.0089999E 01								
214	3.9623800E-05	1	2.8709000E 01	1.5886270E 02	1.5657173E 02	2.2909679E 00				3.8485285E-01	
		2	4.0089999E 01								
215	2.4962294E-05	1	2.7365000E 01	2.0015100E 02	2.0178860E 02	-1.6376038E 00				5.2134897E-01	
		2	4.0089999E 01								
216	3.3706356E-03	1	1.7168100E 02	1.7224400E 01	1.6821663E 01	4.0273643E-01				3.0436245E-02	
		2	4.5100000E 01								
217	8.2656649E-03	1	2.9458500E 02	1.0999200E 01	1.0708352E 01	2.9084837E-01				1.5641525E-02	
		2	4.5100000E 01								
218	3.8374483E-02	1	6.8539400E 02	5.1048000E 00	4.9894065E 00	1.4539346E-01				7.9576842E-03	
		2	4.5100000E 01								
219	5.4377968E-03	1	2.2961600E 02	1.3560900E 01	1.3247867E 01	3.1303334E-01				2.0996091E-02	
		2	4.5100000E 01								
220	1.4578005E-02	1	4.0407900E 02	8.2823000E 00	8.0999279E 00	1.8237209E-01				1.1559809E-02	
		2	4.5100000E 01								
221	2.4553570E-01	1	1.7919830E 03	2.0181000E 00	1.9935920E 00	2.4507955E-02				3.8161025E-03	
		2	4.5100000E 01								
222	1.0767535E 00	1	3.7975510E 03	9.6370000E-01	9.5639962E-01	7.3003769E-03				2.1775078E-03	
		2	4.5100000E 01								
223	1.9105073E-03	1	1.1798900E 02	2.2878400E 01	2.2531008E 01	3.4739137E-01				4.7599236E-02	
		2	4.5100000E 01								
224	1.1445357E-03	1	8.2405999E 01	2.9558700E 01	2.9541711E 01	1.6988993E-02				6.4825227E-02	
		2	4.5100000E 01								
225	8.7194197E-04	1	6.9283000E 01	3.3865400E 01	3.3909664E 01	-4.4263840E-02				7.0127853E-02	
		2	4.5100000E 01								
226	6.1503941E-04	1	5.6598999E 01	4.0322599E 01	4.0829775E 01	-5.0717497E-01				7.3148653E-02	
		2	4.5100000E 01								
227	4.5563002E-04	1	4.9909999E 01	4.6848300E 01	4.7168770E 01	-3.2047081E-01				7.8941692E-02	
		2	4.5100000E 01								
228	3.9948370E-04	1	4.7625000E 01	5.0032300E 01	5.0234286E 01	-2.0198631E-01				8.4260663E-02	
		2	4.5100000E 01								
229	2.7361045E-04	1	4.2333999E 01	6.0455199E 01	6.0730043E 01	-2.7484369E-01				1.1161180E-01	
		2	4.5100000E 01								
230	1.5331012E-04	1	3.7347000E 01	8.0763397E 01	7.9572832E 01	1.1905661E 00				1.7027526E-01	

LISTING NUMBER THREE (CONTINUED)

			2	4.510000E 01							
231	1.0190397E-04	1	2	3.4714999E 01 4.510000E 01	9.9061399E 01	9.7263969E 01	1.7974291E 00				2.2240644E-01
232	6.5035584E-05	1	2	3.2468000E 01 4.510000E 01	1.2400080E 02	1.2084980E 02	3.1509933E 00				2.8690367E-01
233	4.4465490E-05	1	2	3.0823000E 01 4.510000E 01	1.4996450E 02	1.4651200E 02	3.4525013E 00				3.5488052E-01
234	3.4421794E-05	1	2	2.9842000E 01 4.510000E 01	1.7044460E 02	1.6696759E 02	3.4770088E 00				4.0983917E-01
235	2.4296049E-05	1	2	2.8647000E 01 4.510000E 01	2.0287670E 02	1.9933398E 02	3.5427189E 00				5.0076017E-01
236	8.4400133E-03	1	2	3.8845200E 02 5.5089999E 01	1.0885000E 01	1.0651301E 01	2.3369944E-01				1.1922041E-02
237	3.7903871E-03	1	2	2.1924900E 02 5.0089999E 01	1.6242700E 01	1.5881267E 01	3.6143291E-01				2.2060713E-02
238	8.6588025E-03	1	2	3.4871500E 02 5.0089999E 01	1.0746600E 01	1.0504214E 01	2.4238598E-01				1.3134234E-02
239	2.8157554E-02	1	2	6.5665999E 02 5.0089999E 01	5.9594000E 00	5.8419663E 00	1.1743373E-01				8.1925651E-03
240	5.3607528E-03	1	2	2.6708899E 02 5.0089999E 01	1.3658000E 01	1.3347564E 01	3.1043625E-01				1.7384186E-02
241	2.3491856E-01	1	2	1.9565720E 03 5.0089999E 01	2.0632000E 00	2.0425926E 00	2.0607412E-02				3.5222521E-03
242	1.0078884E-02	1	2	4.0953600E 02 5.0089999E 01	9.9607899E 00	9.0698637E 00	8.9092624E-01				1.1409544E-02
243	1.9154773E-03	1	2	1.4663000E 02 5.0089999E 01	2.2848700E 01	2.2421751E 01	4.2694855E-01				3.6493683E-02
244	1.1413980E-03	1	2	1.0638400E 02 5.0089999E 01	2.9599300E 01	2.9346975E 01	2.5232458E-01				5.1764131E-02
245	5.6230534E-04	1	2	7.0225999E 01 5.0089999E 01	4.2170999E 01	4.2233108E 01	-6.2108994E-02				6.9244397E-02
246	4.0054135E-04	1	2	5.9082000E 01 5.0089999E 01	4.9966199E 01	5.0324881E 01	-3.5868120E-01				7.6091320E-02
247	2.6732756E-04	1	2	5.0000000E 01 5.0089999E 01	6.1161500E 01	6.1633374E 01	-4.7187424E-01				9.4633640E-02
248	2.1435979E-04	1	2	4.6378000E 01 5.0089999E 01	6.8301200E 01	6.8703018E 01	-4.0181828E-01				1.1299742E-01
249	1.4676008E-04	1	2	4.1698999E 01 5.0089999E 01	8.2545999E 01	8.2284338E 01	2.6166058E-01				1.5559913E-01
250	1.0049785E-04	1	2	3.8090999E 01 5.0089999E 01	9.9751999E 01	9.9136438E 01	6.1556149E-01				2.1081069E-01
251	7.2695273E-05	1		3.5760000E 01	1.1728620E 02	1.1550015E 02	1.7860470E 00				2.6195640E-01

LISTING NUMBER THREE (CONTINUED)

			2	5.0089999E 01								
252	4.8020274E-05	1	3.3265000E 01	1.4430709E 02	1.4143611E 02	2.8709850E 00		3.3736753E-01				
		2	5.0089999E 01									
253	3.4887774E-05	1	3.1664000E 01	1.6930250E 02	1.6552542E 02	3.7770767E 00		4.0375662E-01				
		2	5.0089999E 01									
254	2.5011905E-05	1	3.0139000E 01	1.9995239E 02	1.9705139E 02	2.9010029E 00		4.8972535E-01				
		2	5.0089999E 01									
255	3.8939947E-02	1	8.6387999E 02	5.0676000E 00	4.9924481E 00	7.5151861E-02		6.8465940E-03				
		2	5.5089999E 01									
256	5.2834908E-03	1	3.0131199E 02	1.3757500E 01	1.3473166E 01	2.8433371E-01		1.5167684E-02				
		2	5.5089999E 01									
257	1.6301683E-02	1	5.4878599E 02	7.8322000E 00	7.6993458E 00	1.3285422E-01		9.2263709E-03				
		2	5.5089999E 01									
258	2.6306581E-01	1	2.2903010E 03	1.9497000E 00	1.9321791E 00	1.7520875E-02		3.0477154E-03				
		2	5.5089999E 01									
259	1.0543821E 00	1	4.6132439E 03	9.7386999E-01	9.0824089E-01	5.6290999E-03		2.1559092E-03				
		2	5.5089999E 01									
260	1.7821307E-03	1	1.6427200E 02	2.3688100E 01	2.3310019E 01	3.7808084E-01		3.1413331E-02				
		2	5.5089999E 01									
261	1.1718646E-03	1	1.2995300E 02	2.9212000E 01	2.8711826E 01	5.0017381E-01		4.1458268E-02				
		2	5.5089999E 01									
262	1.0873725E-03	1	1.2433000E 02	3.0325700E 01	2.9865271E 01	4.6042871E-01		4.3532474E-02				
		2	5.5089999E 01									
263	8.1012075E-04	1	1.0508700E 02	3.5133799E 01	3.4723851E 01	4.0994835E-01		5.1670654E-02				
		2	5.5089999E 01									
264	6.1175796E-04	1	8.9703999E 01	4.0430599E 01	4.0142785E 01	2.8781462E-01		5.9298132E-02				
		2	5.5089999E 01									
265	4.0308817E-04	1	7.1835999E 01	4.9808099E 01	4.9782932E 01	2.5167942E-02		6.9760817E-02				
		2	5.5089999E 01									
266	3.2270054E-04	1	6.4426999E 01	5.5667300E 01	5.5824474E 01	-1.5717459E-01		7.6228846E-02				
		2	5.5089999E 01									
267	2.7394114E-04	1	5.9640000E 01	6.0418699E 01	6.0892581E 01	-4.7388124E-01		8.3020414E-02				
		2	5.5089999E 01									
268	2.0368629E-04	1	5.2816000E 01	7.0067899E 01	7.0752890E 01	-6.8498993E-01		1.0192844E-01				
		2	5.5089999E 01									
269	1.5646428E-04	1	4.8104999E 01	7.9945199E 01	8.0616772E 01	-6.7157269E-01		1.2801346E-01				
		2	5.5089999E 01									
270	1.0049523E-04	1	4.2170999E 01	9.9753299E 01	1.0004440E 02	-2.9110336E-01		1.9023252E-01				
		2	5.5089999E 01									
271	5.8870345E-05	1	3.7138000E 01	1.3033219E 02	1.2962556E 02	7.0663261E-01		2.8792440E-01				
		2	5.5089999E 01									
272	3.8462234E-05	1	3.4209999E 01	1.6124370E 02	1.5888868E 02	2.3550148E 00		3.7755302E-01				

LISTING NUMBER THREE (CONTINUED)

			2	5.5089999E 01						
273	3.3291027E-05	1	3.3288999E 01	1.7331510E 02	1.7131059E 02	2.0045052E 00		4.1362862E-01		
		2	5.5089999E 01							
274	2.6081522E-05	1	3.1962000E 01	1.9580940E 02	1.9316708E 02	2.6423225E 00		4.7532387E-01		
		2	5.5089999E 01							
275	2.5335719E-05	1	3.1825000E 01	1.9867050E 02	1.9574482E 02	2.9256744E 00		4.8250400E-01		
		2	5.5089999E 01							
276	3.6666474E-03	1	2.7756200E 02	1.6514500E 01	1.6134467E 01	3.8003302E-01		1.6540207E-02		
		2	6.0030000E 01							
277	8.2097398E-03	1	4.2528500E 02	1.1036600E 01	1.0802199E 01	2.3440123E-01		1.1086140E-02		
		2	6.0030000E 01							
278	1.0739726E-03	1	1.4219900E 02	3.0514300E 01	2.9954019E 01	5.6028128E-01		3.7089086E-02		
		2	6.0030000E 01							
279	2.0092229E-03	1	2.0017200E 02	2.2309300E 01	2.1850374E 01	4.5892572E-01		2.4398811E-02		
		2	6.0030000E 01							
280	2.6275826E-02	1	7.7755299E 02	6.1691000E 00	6.0631517E 00	1.0594827E-01		7.3597829E-03		
		2	6.0030000E 01							
281	2.5959251E-01	1	2.4874410E 03	1.9627000E 00	1.9462254E 00	1.6474560E-02		2.8320163E-03		
		2	6.0030000E 01							
282	1.1480658E 00	1	5.2574229E 03	9.3328999E-01	9.2813653E-01	5.1534697E-03		2.2207389E-U3		
		2	6.0030000E 01							
283	6.2920232E-04	1	1.0621300E 02	3.9966200E 01	3.9335644E 01	5.3055620E-01		5.0906975E-02		
		2	6.0030000E 01							
284	3.9571790E-04	1	8.3087999E 01	5.0269799E 01	4.9968529E 01	3.0127096E-01		6.3747227E-02		
		2	6.0030000E 01							
285	3.2357417E-04	1	7.5143999E 01	5.5592099E 01	5.5409521E 01	1.8257856E-01		6.9799098E-02		
		2	6.0030000E 01							
286	2.7952299E-04	1	6.9891999E 01	5.9812400E 01	5.9876566E 01	-6.4166069E-02		7.5098870E-02		
		2	6.0030000E 01							
287	2.5879818E-04	1	6.7549000E 01	6.2161199E 01	6.2168623E 01	-7.4234009E-03		7.8070769E-02		
		2	6.0030000E 01							
288	2.0107333E-04	1	6.0360000E 01	7.0521699E 01	7.0804992E 01	-2.8329372E-01		9.1630448E-02		
		2	6.0030000E 01							
289	1.6166658E-04	1	5.5238000E 01	7.8648397E 01	7.9106795E 01	-4.5839787E-01		1.0889576E-01		
		2	6.0030000E 01							
290	1.0086457E-04	1	4.6779000E 01	9.9570497E 01	1.0020084E 02	-6.3034630E-01		1.6837005E-01		
		2	6.0030000E 01							
291	6.2426550E-05	1	4.0829999E 01	1.2656550E 02	1.2662689E 02	-6.1389923E-02		2.5620359E-01		
		2	6.0030000E 01							
292	4.4810963E-05	1	3.7678000E 01	1.4938530E 02	1.4902290E 02	3.6259815E-01		3.3054493E-01		
		2	6.0030000E 01							
293	3.6443604E-05	1	3.6039000E 01	1.6564920E 02	1.6471395E 02	9.3524361E-01		3.8062831E-01		

LISTING NUMBER THREE (CONTINUED)

		2	6.0030000E 01					
294	2.6094900E-05	1	3.3726000E 01	1.9575920E 02	1.9424211E 02	1.5170937E 00	4.7015954E-01	
		2	6.0030000E 01					
295	3.1739734E-03	1	2.7789900E 02	1.7750000E 01	1.7393936E 01	3.5606432E-01	1.6502639E-02	
		2	6.3959999E 01					
296	1.5201730E-03	1	1.8783100E 02	2.5648000E 01	2.5154250E 01	4.9374938E-01	2.6324633E-02	
		2	6.3959999E 01					
297	1.4256077E-03	1	1.8149100E 02	2.6485000E 01	2.5979659E 01	5.0534105E-01	2.7471077E-02	
		2	6.3959999E 01					
298	8.6317223E-04	1	1.3862900E 02	3.4037000E 01	3.3497659E 01	5.3934097E-01	3.8087577E-02	
		2	6.3959999E 01					
299	8.1735375E-04	1	1.3473300E 02	3.4978000E 01	3.4416910E 01	5.6108999E-01	3.9368401E-02	
		2	6.3959999E 01					
300	5.7137399E-04	1	1.1131600E 02	4.1834999E 01	4.1335554E 01	4.9944592E-04	4.8601565E-02	
		2	6.3959999E 01					
301	2.8414443E-04	1	7.8067999E 01	5.9324000E 01	5.9157158E 01	1.6684198E-01	6.9618002E-02	
		2	6.3959999E 01					
302	2.0256824E-04	1	6.6719999E 01	7.0260999E 01	7.0409163E 01	-1.4816380E-01	8.4965438E-02	
		2	6.3959999E 01					
303	1.3861697E-04	1	5.6859999E 01	8.4935999E 01	8.5590105E 01	-6.5410519E-01	1.1473642E-01	
		2	6.3959999E 01					
304	9.6098037E-05	1	4.9728000E 01	1.0201000E 02	1.0296156E 02	-9.5155811E-01	1.6173675E-01	
		2	6.3959999E 01					
305	5.3089293E-05	1	4.1756999E 01	1.3724500E 02	1.3699396E 02	2.5103569E-01	2.7289969E-01	
		2	6.3959999E 01					
306	3.3904876E-05	1	3.7245000E 01	1.7173900E 02	1.7197876E 02	-2.3975945E-01	3.8912239E-01	
		2	6.3959999E 01					
307	2.4076878E-05	1	3.4640000E 01	2.0379800E 02	2.0327063E 02	5.2736855E-01	4.8714180E-01	
		2	6.3959999E 01					
308	3.1288200E-02	1	9.8576099E 02	5.6533999E 00	5.5853340E 00	6.8065941E-02	6.2642917E-03	
		2	6.9000000E 01					
309	1.0086558E-02	1	5.5297799E 02	9.9569999E 00	9.8096352E 00	1.4736474E-01	9.2262847E-03	
		2	6.9000000E 01					
310	1.0245507E-03	1	1.6866600E 02	3.1241600E 01	3.0712740E 01	5.2885938E-01	3.0030776E-02	
		2	6.9000000E 01					
311	2.5470026E-03	1	2.7085100E 02	1.9814600E 01	1.9506742E 01	3.0785751E-01	1.6974566E-02	
		2	6.9000000E 01					
312	4.0572698E-03	1	3.4517200E 02	1.5699400E 01	1.5458528E 01	2.4087214E-01	1.3262599E-02	
		2	6.9000000E 01					
313	2.6824116E-01	1	2.9178060E 03	1.9308000E 00	1.9172104E 00	1.3589561E-02	2.4901456E-03	
		2	6.9000000E 01					
314	1.1995556E 00	1	6.1904189E 03	9.1303999E-01	9.0859244E-01	4.4475496E-03	2.3624575E-03	

LISTING NUMBER THREE (CONTINUED)

		2	6.9000000E 01						
315	3.3262272E-03	1	3.1114800E 02	1.7339000E 01	1.7078183E 01	2.6081729E-01		1.4658184E-02	
		2	6.9000000E 01						
316	1.4255001E-03	1	2.0053600E 02	2.6486000E 01	2.6011770E 01	4.7422099E-01		2.4232526E-02	
		2	6.9000000E 01						
317	9.0039614E-04	1	1.5797300E 02	3.3326000E 01	3.2713722E 01	6.1227751E-01		3.2550515E-02	
		2	6.9000000E 01						
318	5.2479744E-04	1	1.1920400E 02	4.3652000E 01	4.3055147E 01	5.9685278E-01		4.5381839E-02	
		2	6.9000000E 01						
319	3.8789774E-04	1	1.0217200E 02	5.0774000E 01	5.0248896E 01	5.2510357E-01		5.3843988E-02	
		2	6.9000000E 01						
320	2.7540421E-04	1	8.6049999E 01	6.0258000E 01	6.0058215E 01	1.9978428E-01		6.5231405E-02	
		2	6.9000000E 01						
321	2.2580993E-04	1	7.8344999E 01	6.6547000E 01	6.6473856E 01	7.3143959E-02		7.3245446E-02	
		2	6.9000000E 01						
322	1.2224494E-04	1	5.9951000E 01	9.0444999E 01	9.1112273E 01	-6.6727448E-01		1.1646503E-01	
		2	6.9000000E 01						
323	9.3020042E-05	1	5.3959999E 01	1.0568400E 02	1.0477460E 02	-1.0906067E 00		1.5073528E-01	
		2	6.9000000E 01						
324	5.4423714E-05	1	4.5165000E 01	1.5555199E 02	1.3700975E 02	-1.4577541E 00		2.5031711E-01	
		2	6.9000000E 01						
325	3.3919885E-05	1	3.9449000E 01	1.7170099E 02	1.7473495E 02	-3.0339546E 00		3.7699518E-01	
		2	6.9000000E 01						
326	2.3437752E-05	1	3.6270000E 01	2.0655900E 02	2.0819573E 02	-1.6377316E 00		4.8612531E-01	
		2	6.9000000E 01						
327	1.2183667E-03	1	2.0542000E 02	2.8649100E 01	2.8155929E 01	4.9317074E-01		2.3552016E-02	
		2	7.5009997E 01						
328	2.0856559E-03	1	2.7088600E 02	2.1896700E 01	2.1513974E 01	3.8272548E-01		1.6999112E-02	
		2	7.5009997E 01						
329	4.5849342E-03	1	4.0560200E 02	1.4768400E 01	1.4534019E 01	2.5438084E-01		1.1574048E-02	
		2	7.5009997E 01						
330	3.4079904E-02	1	1.1247020E 03	5.4169000E 00	5.3572849E 00	5.9615076E-02		5.6867117E-03	
		2	7.5009997E 01						
331	1.0112745E-02	1	6.0762700E 02	9.9440999E 00	9.8003368E 00	1.4376307E-01		8.6944189E-03	
		2	7.5009997E 01						
332	2.4670788E-01	1	3.0452490E 03	2.0133000E 00	2.0010638E 00	1.2236148E-02		2.4177081E-03	
		2	7.5009997E 01						
333	9.3858216E-01	1	5.9519469E 03	1.0322000E 00	1.0280202E 00	4.1798204E-03		2.3236035E-03	
		2	7.5009997E 01						
334	3.2615775E-03	1	3.2491100E 02	1.7510000E 01	1.7507884E 01	2.1157265E-03		1.3674066E-02	
		2	7.5009997E 01						
335	1.5193435E-03	1	2.3014200E 02	2.5655000E 01	2.5206604E 01	4.4839597E-01		2.0513015E-02	

LISTING NUMBER THREE (CONTINUED)

		2	7.5009997E 01						
336	1.3149401E-02	1	2.1346400E 02	2.7577000E 01	2.7121491E 01	4.5550847E-01		2.2467034E-02	
		2	7.5009997E 01						
337	7.9497066E-04	1	1.6508000E 02	3.5466999E 01	3.4874568E 01	5.9243107E-01		3.0924308E-02	
		2	7.5009997E 01						
338	5.5277445E-04	1	1.3712200E 02	4.2533000E 01	4.1912158E 01	6.2084150E-01		3.8882459E-02	
		2	7.5009997E 01						
339	3.5704874E-04	1	1.0998300E 02	5.2922000E 01	5.2404699E 01	5.1730061E-01		5.0691336E-02	
		2	7.5009997E 01						
340	2.7509369E-04	1	9.6599998E 01	6.0292000E 01	6.0010654E 01	2.8134584E-01		5.9361017E-02	
		2	7.5009997E 01						
341	8.6172166E-05	1	5.8146999E 01	1.0772500E 02	1.0861469E 02	-8.8969421E-01		1.4520755E-01	
		2	7.5009997E 01						
342	5.2818018E-05	1	4.8975999E 01	1.3759699E 02	1.3869535E 02	-1.0983562E 00		2.3171288E-01	
		2	7.5009997E 01						
343	3.3604437E-05	1	4.2574000E 01	1.7250500E 02	1.7458961E 02	-2.0846157E 00		3.4977426E-01	
		2	7.5009997E 01						
344	2.4770098E-05	1	3.9176999E 01	2.0092600E 02	2.0380760E 02	-2.8816032E 00		4.4776869E-01	
		2	7.5009997E 01						
345	3.7235304E-02	1	1.2585150E 03	5.1823000E 00	5.1293816E 00	5.2918375E-02		5.2104601E-03	
		2	8.0019999E 01						
346	2.3403296E-01	1	3.1669000E 03	2.0671000E 00	2.0556708E 00	1.1429220E-02		2.3586036E-03	
		2	8.0019999E 01						
347	1.2370958E 00	1	7.2927879E 03	8.9907999E-01	8.9632541E-01	2.7545765E-03		2.5441576E-03	
		2	8.0019999E 01						
348	2.5786850E-03	1	3.2566700E 02	1.9692500E 01	1.9360584E 01	3.3191586E-01		1.4084881E-02	
		2	8.0019999E 01						
349	4.5203665E-03	1	4.3328699E 02	1.4873500E 01	1.4638369E 01	2.3513114E-01		1.1023570E-02	
		2	8.0019999E 01						
350	8.9009720E-03	1	6.1086500E 02	1.0599400E 01	1.0452398E 01	1.4700210E-01		8.6846396E-03	
		2	8.0019999E 01						
351	4.2847338E-03	1	4.2171900E 02	1.5277000E 01	1.5031574E 01	2.4542570E-01		1.1255724E-02	
		2	8.0019999E 01						
352	1.9839404E-03	1	2.8505000E 02	2.2451000E 01	2.2060655E 01	3.9034486E-01		1.6130149E-02	
		2	8.0019999E 01						
353	9.7949879E-04	1	1.9871700E 02	3.1952000E 01	3.1451102E 01	5.0089812E-01		2.4629954E-02	
		2	8.0019999E 01						
354	5.2498986E-04	1	1.4519100E 02	4.3643999E 01	4.3006508E 01	6.3749123E-01		3.6592985E-02	
		2	8.0019999E 01						
355	3.6228715E-04	1	1.2066700E 02	5.2537999E 01	5.1939800E 01	5.9819984E-01		4.6185949E-02	
		2	8.0019999E 01						
356	2.8129226E-04	1	1.0652500E 02	5.9624000E 01	5.9161205E 01	4.6279383E-01		5.4155682E-02	

LISTING NUMBER THREE (CONTINUED)

		2	8.0019999E 01						
357	2.0638669E-04	1	9.1975999E 01	6.9607999E 01	6.9275059E 01	3.3294106E-01		6.6107513E-02	
		2	8.0019999E 01						
358	1.3255019E-04	1	7.5106000E 01	8.6358000E 01	8.7146260E 01	-2.8826046E-01		9.1921625E-02	
		2	8.0019999E 01						
359	9.2851603E-05	1	6.4721000E 01	1.0377800E 02	1.0446696E 02	-6.8896103E-01		1.2528815E-01	
		2	8.0019999E 01						
360	5.2651812E-05	1	5.2293999E 01	1.3781400E 02	1.3943222E 02	-1.6182213E 00		2.1675285E-01	
		2	8.0019999E 01						
361	5.4321693E-05	1	4.5416999E 01	1.7069300E 02	1.7350409E 02	-2.8110924E 00		3.2465521E-01	
		2	8.0019999E 01						
362	2.4323774E-05	1	4.1099000E 01	2.0276100E 02	2.0647755E 02	-5.7166519E 00		4.3491995E-01	
		2	8.0019999E 01						
363	2.1481578E-05	1	3.3857400E 02	2.1979800E 01	2.1265119E 01	3.1068039E-01		1.3686392E-02	
		2	9.0039999E 01						
364	4.2085244E-05	1	4.7502699E 02	1.5414700E 01	1.5207343E 01	2.0733178E-01		1.0367376E-02	
		2	9.0039999E 01						
365	8.9974828E-05	1	6.9635000E 02	1.0542400E 01	1.0416955E 01	1.2543404E-01		8.0082467E-03	
		2	9.0039999E 01						
366	4.8235474E-02	1	1.6186420E 03	4.5531999E 01	4.5158171E 00	5.7582841E-02		4.2117164E-03	
		2	9.0039999E 01						
367	2.7036939E-01	1	3.8382900E 03	1.9232000E 00	1.9137725E 00	9.4275026E-03		2.1736275E-03	
		2	9.0039999E 01						
368	1.1898663E 00	1	8.0590129E 03	9.1674999E-01	9.1373862E-01	3.0113757E-03		2.6642059E-03	
		2	9.0039999E 01						
369	1.3808304E-03	1	2.7075300E 02	2.5911000E 01	2.6554702E 01	3.5629797E-01		1.7222049E-02	
		2	9.0039999E 01						
370	7.8003241E-04	1	2.0366700E 02	3.5905000E 01	3.5303620E 01	5.0137949E-01		2.4221134E-02	
		2	9.0039999E 01						
371	5.2335773E-04	1	1.6714600E 02	4.5712000E 01	4.3126028E 01	5.8597136E-01		3.1280860E-02	
		2	9.0039999E 01						
372	3.6897052E-04	1	1.4079300E 02	5.2060000E 01	5.1449225E 01	6.1077499E-01		3.9315538E-02	
		2	9.0039999E 01						
373	2.7467440E-04	1	1.2201400E 02	6.0537999E 01	5.9779679E 01	5.5832052E-01		4.7844090E-02	
		2	9.0039999E 01						
374	2.0615562E-04	1	1.0652300E 02	6.9646998E 01	6.9153218E 01	4.9378014E-01		5.8203852E-02	
		2	9.0039999E 01						
375	1.3652583E-04	1	8.8034999E 01	8.5583999E 01	8.5502114E 01	8.1884384E-02		7.9279579E-02	
		2	9.0039999E 01						
376	9.9190942E-05	1	7.6468999E 01	1.0040700E 02	1.0082934E 02	-4.2234421E-01		1.0389074E-01	
		2	9.0039999E 01						
377	5.2616951E-05	1	5.9683999E 01	1.3656800E 02	1.3820960E 02	-1.6416035E 00		1.8627045E-01	

LISTING NUMBER THREE (CONTINUED)

		2	9.0039999E 01						
278	3.6211601E-05	1 2	5.1826999E 01 9.0039999E 01	1.5617900E 02	1.6389546E 02	-2.7164593E 00		2.7304260E-01	
379	2.8001552E-05	1 2	4.7571999E 01 9.0039999E 01	1.8997700E 02	1.9272835E 02	-3.7518520E 00		3.4770892E-01	
380	1.3348759E-03	1 2	2.9962000E 02 1.0002000E 02	2.7370300E 01	2.6995953E 01	3.7434149E-01		1.5643839E-02	
381	2.4970776E-03	1 2	4.0951500E 02 1.0002000E 02	2.0011700E 01	1.9746739E 01	2.6496053E-01		1.1710678E-02	
382	4.0342128E-03	1 2	5.2054700E 02 1.0002000E 02	1.5744200E 01	1.5546803E 01	1.9739711E-01		9.7888465E-03	
383	8.6021973E-03	1 2	7.6010699E 02 1.0002000E 02	1.0781900E 01	1.0667512E 01	1.1438763E-01		7.5888602E-03	
384	4.7265144E-02	1 2	1.7837680E 03 1.0002000E 02	4.5997000E 00	4.5665610E 00	3.3138990E-02		3.8621946E-03	
385	3.0017615E-01	1 2	4.4933710E 03 1.0002000E 02	1.8252000E 00	1.8191338E 00	6.0661882E-03		2.1499825E-03	
386	3.2949881E-03	1 2	4.6975499E 02 1.0002000E 02	1.7421000E 01	1.7220951E 01	2.0004821E-01		1.0534561E-02	
387	7.7366669E-04	1 2	2.2356800E 02 1.0002000E 02	3.5951999E 01	3.5505113E 01	4.4688654E-01		2.1398035E-02	
388	9.7595245E-04	1 2	2.5868200E 02 1.0002000E 02	3.2010000E 01	3.1298357E 01	7.1164250E-01		1.8411774E-02	
389	2.1375974E-04	1 2	1.2237100E 02 1.0002000E 02	6.8396998E 01	6.7962671E 01	4.3432713E-01		5.0784522E-02	
390	2.0275865E-04	1 2	1.1931700E 02 1.0002000E 02	7.0228000E 01	6.9848234E 01	3.7975551E-01		5.2813845E-02	
391	9.7713960E-05	1 2	9.5440999E 01 1.0002000E 02	1.0116300E 02	8.9509771E 01	1.1653227E 01		7.6893020E-02	
392	5.6210649E-05	1 2	6.7853000E 01 1.0002000E 02	1.3337999E 02	1.3511724E 02	-1.7372417E 00		1.5948598E-01	
393	3.4703663E-05	1 2	5.6621000E 01 1.0002000E 02	1.6975100E 02	1.7256938E 02	-2.8183823E 00		2.5462764E-01	
394	2.6140602E-05	1 2	5.1141999E 01 1.0002000E 02	1.9558800E 02	2.0039798E 02	-4.8099804E 00		3.3655562E-01	
395	1.2026993E-03	1 2	3.6052900E 02 1.2503000E 02	2.8835100E 01	2.8555967E 01	2.7913260E-01		1.3549711E-02	
396	2.1517865E-03	1 2	4.8047099E 02 1.2503000E 02	2.1557600E 01	2.1352334E 01	2.0526600E-01		1.0618832E-02	
397	4.5160539E-03	1 2	6.9395099E 02 1.2503000E 02	1.4880600E 01	1.4750969E 01	1.2963104E-01		8.1828903E-03	
398	3.1536862E-01	1	5.7617790E 03	1.7807000E 00	1.7774135E 00	3.2864958E-03		2.2927720E-03	

LISTING NUMBER THREE (CONTINUED)

		2	1.2503000E 02						
399	3.6675511E-02	1	1.9692120E 03	5.2217000E 00	5.1930245E 00	2.8675377E-02		3.5345175E-03	
		2	1.2503000E 02						
400	9.2372720E-03	1	9.9539999E 02	1.0348200E 01	1.0272452E 01	7.6347947E-02		6.3313787E-03	
		2	1.2503000E 02						
401	3.1103432E-04	1	2.9686700E 02	3.5114000E 01	3.4811686E 01	3.0231333E-01		1.6582356E-02	
		2	1.2503000E 02						
402	2.7594259E-04	1	2.3410300E 02	5.1575000E 01	5.1278551E 01	2.9644871E-01		2.6860806E-02	
		2	1.2503000E 02						
403	2.0966902E-04	1	1.5487200E 02	6.9061000E 01	6.8714923E 01	3.4607697E-01		4.0972826E-02	
		2	1.2503000E 02						
404	9.6077315E-05	1	1.0814400E 02	1.0202100E 02	1.0225948E 02	-2.3848629E-01		7.7733921E-02	
		2	1.2503000E 02						
405	5.2541956E-05	1	8.3708998E 01	1.3795900E 02	1.3925464E 02	-1.2966461E 00		1.3575986E-01	
		2	1.2503000E 02						
406	3.3140931E-05	1	6.8999000E 01	1.7270700E 02	1.7696543E 02	-3.2584286E 00		2.1400689E-01	
		2	1.2503000E 02						
407	2.6243550E-05	1	6.3159000E 01	1.9520400E 02	1.9932573E 02	-4.1217289E 00		2.6839713E-01	
		2	1.2503000E 02						
408	2.4688933E-05	1	6.1774999E 01	2.0125600E 02	2.0551669E 02	-4.2606907E 00		2.8436474E-01	
		2	1.2503000E 02						
409	1.2136261E-03	1	4.3702499E 02	2.8705000E 01	2.8487594E 01	2.1740532E-01		1.1860691E-02	
		2	1.5004000E 02						
410	2.4340829E-03	1	6.1530399E 02	2.0269000E 01	2.0127268E 01	1.4173222E-01		9.0724565E-03	
		2	1.5004000E 02						
411	2.6496500E-01	1	6.3425639E 03	1.9427000E 00	1.9397266E 00	2.9734224E-03		2.3861316E-03	
		2	1.5004000E 02						
412	1.1860596E-02	1	1.3491430E 03	9.1822000E 00	9.1316601E 00	5.0539851E-02		5.0020463E-03	
		2	1.5004000E 02						
413	4.9376132E-02	1	2.7441280E 03	4.5003000E 00	4.4840299E 00	1.6270220E-02		2.6253710E-03	
		2	1.5004000E 02						
414	4.9878850E-03	1	8.7710499E 02	1.4159300E 01	1.4074861E 01	8.4438801E-02		7.0291810E-03	
		2	1.5004000E 02						
415	7.9041777E-04	1	3.5375200E 02	3.5569000E 01	3.5367538E 01	2.0146179E-01		1.4516931E-02	
		2	1.5004000E 02						
416	3.7014986E-04	1	2.4549100E 02	5.1977000E 01	5.1647155E 01	3.2984447E-01		2.2752955E-02	
		2	1.5004000E 02						
417	2.1102968E-04	1	1.8786400E 02	6.8837997E 01	6.8555028E 01	2.8296947E-01		3.4256570E-02	
		2	1.5004000E 02						
418	9.6201743E-05	1	1.3046300E 02	1.0195500E 02	1.0222036E 02	-2.6536179E-01		6.5917903E-02	
		2	1.5004000E 02						
419	5.5839943E-05	1	1.0258400E 02	1.3382200E 02	1.3483468E 02	-1.0176820E 00		1.0834834E-01	

LISTING NUMBER THREE (CONTINUED)

		2	1.5004000E 02						
420	3.4323694E-05	1 2	8.3449999E 01 1.5004000E 02	1.7088800E 02	1.7329299E 02	-2.6049362E 00		1.7362886E-01	
421	2.5083458E-05	1 2	7.3521999E 01 1.5004000E 02	1.9966700E 02	2.0379699E 02	-4.1290855E 00		2.3638884E-01	
422	4.2687358E-03	1 2	9.4893999E 02 1.7502000E 02	1.5305600E 01	1.5224083E 01	8.1511497E-02		6.7054347E-03	
423	2.2861079E-03	1 2	6.9717000E 02 1.7502000E 02	2.0914700E 01	2.0794231E 01	1.2046909E-01		8.4521978E-03	
424	4.7244599E-02	1 2	3.1337840E 03 1.7502000E 02	4.6307000E 00	4.5857880E 00	1.4912009E-02		2.3858262E-03	
425	2.7829577E-01	1 2	7.5892590E 03 1.7502000E 02	1.8956000E 00	1.8921623E 00	3.4376532E-03		2.5899635E-03	
426	9.7374843E-03	1 2	1.4285220E 03 1.7502000E 02	1.0133900E 01	1.0084339E 01	4.9510598E-02		4.7903702E-03	
427	1.3739395E-03	1 2	5.4271899E 02 1.7502000E 02	2.6978400E 01	2.6822259E 01	1.5614033E-01		1.0249849E-02	
428	4.3339550E-02	1 2	5.0011870E 03 1.7502000E 02	4.8035000E 00	4.7887428E 00	1.4757156E-02		2.4564791E-03	
429	8.3227667E-04	1 2	4.2466900E 02 1.7502000E 02	5.4663000E 01	3.4472227E 01	1.9077301E-01		1.2718212E-02	
430	3.6010423E-04	1 2	2.8318300E 02 1.7502000E 02	5.2696999E 01	5.2456405E 01	2.4059391E-01		2.0387235E-02	
431	2.1216852E-04	1 2	2.2013300E 02 1.7502000E 02	6.8652999E 01	6.8442197E 01	2.1080303E-01		2.9790152E-02	
432	9.5018221E-05	1 2	1.5154100E 02 1.7502000E 02	1.0258800E 02	1.0272256E 02	-1.3456249E-01		5.8088334E-02	
433	5.2099172E-05	1 2	1.1575300E 02 1.7502000E 02	1.3854300E 02	1.3956044E 02	-1.0174427E 00		1.0092130E-01	
434	3.6133281E-05	1 2	9.8783998E 01 1.7502000E 02	1.6635900E 02	1.6845452E 02	-2.0955200E 00		1.4355469E-01	
435	2.5561278E-05	1 2	9.5492998E 01 1.7502000E 02	1.9779200E 02	2.0132748E 02	-3.5354824E 00		2.0132715E-01	
436	1.0793069E-03	1 2	5.5135899E 02 2.0011000E 02	3.0458800E 01	3.0312074E 01	1.2672520E-01		1.0446250E-02	
437	2.1129140E-03	1 2	7.6696799E 02 2.0011000E 02	2.1755000E 01	2.1657082E 01	9.7917557E-02		8.0133057E-03	
438	4.1015106E-03	1 2	1.0677160E 03 2.0011000E 02	1.5614500E 01	1.5552524E 01	6.1975837E-02		6.1960009E-03	
439	1.0457952E-02	1 2	1.6916840E 03 2.0011000E 02	9.7786000E 00	9.7451785E 00	3.3421516E-02		4.1310998E-03	
440	2.7782657E-01	1	8.6707779E 03	1.8972000E 00	1.8942511E 00	2.9489100E-03		2.7522368E-03	

LISTING NUMBER THREE (CONTINUED)

		2	2.0011000E 02						
441	3.3574729E-02	1	3.0214200E 03	5.4575000E 00	5.4439912E 00	1.3508797E-02		2.4490322E-03	
		2	2.0011000E 02						
442	1.3276676E-03	1	6.1027499E 02	2.7444500E 01	2.7326315E 01	1.1818480E-01		9.5968553E-03	
		2	2.0011000E 02						
443	1.4887226E-03	1	6.4552099E 02	2.5917500E 01	2.5806204E 01	1.1129546E-01		9.1719681E-03	
		2	2.0011000E 02						
444	3.0129633E-03	1	9.1332200E 02	1.8218100E 01	1.8143852E 01	7.4247360E-02		6.9963250E-03	
		2	2.0011000E 02						
445	5.7213389E-03	1	1.2540500E 03	1.3220600E 01	1.3172523E 01	4.8076749E-02		5.4026226E-03	
		2	2.0011000E 02						
446	1.5199892E-02	1	2.0372330E 03	8.1111000E 00	8.0848372E 00	2.6262760E-02		3.4624097E-03	
		2	2.0011000E 02						
447	3.0206185E-03	1	9.1311899E 02	1.8195000E 01	1.8147935E 01	4.7065258E-02		6.9975436E-03	
		2	2.0011000E 02						
448	5.7345563E-04	1	4.0552700E 02	4.1759000E 01	4.1567092E 01	1.9190741E-01		1.4039715E-02	
		2	2.0011000E 02						
449	3.7089160E-04	1	3.2855300E 02	5.1924999E 01	5.1724604E 01	2.0039511E-01		1.8077141E-02	
		2	2.0011000E 02						
450	9.1873426E-05	1	1.6997700E 02	1.0432900E 02	1.0469647E 02	-3.6746693E-01		5.3575249E-02	
		2	2.0011000E 02						
451	5.4684816E-05	1	1.3427000E 02	1.3522800E 02	1.3645778E 02	-1.2297840E 00		8.6334509E-02	
		2	2.0011000E 02						
452	2.5735073E-05	1	9.6665000E 01	1.9712300E 02	2.0128705E 02	-4.1640472E 00		1.7912937E-01	
		2	2.0011000E 02						
453	1.2095269E-03	1	7.2699399E 02	2.8753600E 01	2.8705772E 01	4.7827721E-02		8.7205211E-03	
		2	2.4999000E 02						
454	2.2031758E-03	1	9.7660599E 02	2.1304700E 01	2.1260999E 01	4.3700695E-02		6.8098422E-03	
		2	2.4999000E 02						
455	3.9598221E-03	1	1.3045550E 03	1.5891400E 01	1.5860215E 01	3.1184435E-02		5.3078049E-03	
		2	2.4999000E 02						
456	2.7121086E-01	1	1.0695292E 04	1.9202000E 00	1.9191586E 00	1.0413527E-03		3.0068432E-03	
		2	2.4999000E 02						
457	4.6705009E-02	1	4.4472029E 03	4.6271999E 00	4.6215476E 00	5.6523085E-03		2.1505038E-03	
		2	2.4999000E 02						
458	7.1846449E-03	1	1.7528080E 03	1.1797700E 01	1.1774051E 01	2.3648977E-02		4.0373625E-03	
		2	2.4999000E 02						
459	3.0977679E-03	1	1.1555630E 03	1.7967000E 01	1.7929045E 01	3.7954569E-02		5.9031689E-03	
		2	2.4999000E 02						
460	8.6084384E-04	1	6.1498399E 02	3.4083000E 01	3.4061497E 01	2.1502018E-02		1.0104910E-02	
		2	2.4999000E 02						
461	2.0177485E-04	1	3.0500900E 02	7.0398998E 01	7.0557108E 01	-1.5810966E-01		2.3512454E-02	

LISTING NUMBER THREE (CONTINUED)

			2	2.4999000E	02							
462	9.6218733E-05	1	2	2.1538200E	02	1.0194600E	02	1.0241560E	02	-4.6960449E-01	4.2929413E-02	
				2.4999000E	02							
463	5.4162078E-05	1	2	1.6539900E	02	1.3587900E	02	1.3705523E	02	-1.1762295E	00	7.2247413E-02
				2.4999000E	02							
464	3.7203385E-05	1	2	1.3965700E	02	1.6394900E	02	1.6608291E	02	-2.1339092E	00	1.0319058E-01
				2.4999000E	02							
465	2.4476130E-05	1	2	1.1611000E	02	2.0212900E	02	2.0614411E	02	-4.0151081E	00	1.5509783E-01
				2.4999000E	02							
466	1.2338307E-05	1	2	8.0164000E	02	2.8469000E	01	2.8435399E	01	3.3600569E-02		8.1770904E-03
				2.7316000E	02							
467	2.6860273E-01	1	2	1.1629282E	04	1.9295000E	00	1.9287661E	00	7.3391199E-04		3.1046071E-03
				2.7316000E	02							
468	2.1734490E-03	1	2	1.0590910E	03	2.1449900E	01	2.1423902E	01	2.5997977E-02		6.4326767E-03
				2.7316000E	02							
469	1.2197776E-02	1	2	2.4897950E	03	9.0544000E	00	9.0433427E	00	1.1057258E-02		2.8927608E-03
				2.7316000E	02							
470	4.3954128E-02	1	2	4.7128180E	03	4.7697999E	00	4.7661668E	00	3.6331415E-03		2.1635745E-03
				2.7316000E	02							
471	4.3731942E-03	1	2	1.4968750E	03	1.5121700E	01	1.5097246E	01	2.4453521E-02		4.7157518E-03
				2.7316000E	02							
472	3.9474045E-02	1	2	4.4656479E	03	5.0332000E	00	5.0306826E	00	2.5174022E-03		2.1514615E-03
				2.7316000E	02							
473	1.8203896E-02	1	2	3.0368340E	03	7.4117000E	00	7.4073365E	00	4.3634772E-03		2.4532658E-03
				2.7316000E	02							
474	3.5706179E-03	1	2	1.3534010E	03	1.6735100E	01	1.6714635E	01	2.0464659E-02		5.1754087E-03
				2.7316000E	02							
475	1.4199192E-03	1	2	8.5894599E	02	2.6538000E	01	2.6504164E	01	3.3835649E-02		7.7031632E-03
				2.7316000E	02							
476	2.0087787E-02	1	2	3.1907700E	03	7.0556000E	00	7.0485435E	00	7.0564747E-03		2.3731034E-03
				2.7316000E	02							
477	2.1580574E-02	1	2	3.3077330E	03	6.8072000E	00	6.7983460E	00	8.8539124E-03		2.3224904E-03
				2.7316000E	02							
478	3.9469339E-02	1	2	4.9047179E	03	5.0335000E	00	5.0305203E	00	2.9796362E-03		2.1795098E-03
				2.9999000E	02							
479	1.0106442E-02	1	2	2.4897860E	03	9.9471999E	00	9.9370321E	00	1.0167837E-02		2.9026204E-03
				2.9999000E	02							
480	4.5582896E-03	1	2	1.6770010E	03	1.4811500E	01	1.4795659E	01	1.5841007E-02		4.2627143E-03
				2.9999000E	02							
481	1.2690118E-03	1	2	8.9194399E	02	2.8071600E	01	2.8049345E	01	2.2255182E-02		7.5953793E-03
				2.9999000E	02							
482	3.0150239E-02	1		4.2885169E	03	5.7591000E	00	5.7555861E	00	3.5138130E-03		2.1508412E-03

LISTING NUMBER THREE (CONTINUED)

			2	2.9999000E 02							
483	2.7129562E-01	1	1.2835564E 04	1.9199000E 00	1.9192324E 00	6.6755712E-04				3.2155618E-03	
		2	2.9999000E 02								
484	1.9340206E-03	1	1.0977620E 03	2.2738900E 01	2.2713339E 01	2.5561094E-02				6.3163991E-03	
		2	2.9999000E 02								
485	1.3135965E-03	1	9.0731399E 02	2.7591100E 01	2.7565650E 01	2.5449753E-02				7.4808216E-03	
		2	2.9999000E 02								
486	4.4405426E-04	1	5.3350999E 02	4.7455000E 01	4.7495792E 01	-4.0781975E-02				1.2534219E-02	
		2	2.9999000E 02								
487	4.4282166E-04	1	5.3340799E 02	4.7521000E 01	4.7505162E 01	1.5838146E-02				1.2536917E-02	
		2	2.9999000E 02								
488	4.2202147E-04	1	5.2014099E 02	4.8678000E 01	4.8757647E 01	-7.9647541E-02				1.2900959E-02	
		2	2.9999000E 02								
489	4.1479834E-04	1	5.1585299E 02	4.9100000E 01	4.9176730E 01	-7.6730251E-02				1.3024476E-02	
		2	2.9999000E 02								
490	4.1009101E-04	1	5.1380099E 02	4.9380999E 01	4.9379843E 01	1.1558533E-03				1.3084652E-02	
		2	2.9999000E 02								
491	4.0099385E-04	1	5.0751299E 02	4.9937999E 01	5.0012850E 01	-7.4850559E-02				1.3273518E-02	
		2	2.9999000E 02								
492	3.9842069E-04	1	5.0638099E 02	5.0099000E 01	5.0128538E 01	-2.9538155E-02				1.3308253E-02	
		2	2.9999000E 02								
493	3.1858166E-04	1	4.5410700E 02	5.6025999E 01	5.6124969E 01	-9.8968983E-02				1.5205558E-02	
		2	2.9999000E 02								
494	1.2991645E-04	1	2.9560100E 02	8.7733998E 01	8.8128433E 01	-3.9443588E-01				2.8959043E-02	
		2	2.9999000E 02								
495	1.2831149E-04	1	2.9377800E 02	8.8280997E 01	8.8710980E 01	-4.2998314E-01				2.9268530E-02	
		2	2.9999000E 02								
496	1.2662771E-04	1	2.9199500E 02	8.8865998E 01	8.9288268E 01	-4.2226982E-01				2.9577318E-02	
		2	2.9999000E 02								
497	6.3487008E-05	1	2.1130100E 02	1.2550400E 02	1.2662351E 02	-1.1195087E 00				5.3912453E-02	
		2	2.9999000E 02								
498	2.9338810E-05	1	1.4872200E 02	1.8462000E 02	1.8765981E 02	-3.0398121E 00				1.1151655E-01	
		2	2.9999000E 02								
499	2.4731680E-05	1	1.3761500E 02	2.0108200E 02	2.0526210E 02	-4.1801052E 00				1.3206116E-01	
		2	2.9999000E 02								