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METHOD FOR THE PREDICTION OF THE INSTALLATION
AERODYNAMICS OF A PROPFAN AT SUBSONIC SPEEDS -
USER MANUAL

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Nomenclature

C_T	Thrust coefficient of the propeller = $T/\rho n^2 D^4$
D	Diameter of the propeller
$dc_l/d\alpha$	Lift curve slope of the blade section
J	Advance ratio of the propeller = $V_\infty \cdot n/D$
M_∞	Freestream Mach number
n	Revolutions/sec
R_0	Radius of the propeller
R_p	Radius of the point in the slipstream at which the flow field velocities are desired
R_s	Radius of the starting position of the streamline which passes through the point with radius R_p in the slipstream
T	Thrust force of the propeller
V_∞	Free stream velocity
x, y, z	Panel centroid coordinates
α	Angle of attack in degrees

Subscripts

∞	Pertaining to freestream condition
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Introduction

In recent years, the increase in fuel costs has prompted the aviation industry to devise suitable new propulsion devices for reducing the fuel consumption. NASA Lewis and Hamilton Standard have shown that the high speed turboprops (propfans) have the potential of reducing the fuel consumption of current transport aircraft by 14 to 30 percent (ref. 1) and can have up to 15 percent higher installed propulsive efficiency at Mach 0.8 cruise (refs. 2 and 3). Even though adding a propfan enhances the fuel savings there are several critical problems to be examined which include: the demonstration of the projected performance, the achievement of acceptable cabin noise, and the efficient integration of the propfan/nacelle combination with the airframe. Careful consideration of the propfan and nacelle effects on the wing must be taken into account during the installation in order to gain the beneficial effects derived from the propfan. The integration of the propfan/nacelle with the airframe is the key factor in determining the efficiency of the propfan propulsion system under the installed condition (refs. 4-7).

Since model construction is expensive and time consuming, it would be advantageous to have a theoretical method that could predict the interference flow field and the aerodynamic forces with a reasonable accuracy. This could reduce the cost and the time involved in the wind tunnel testing, if one has to design a large number of wing/nacelle configuration.

The purpose of the present report is to describe the slipstream-wing interaction code, developed earlier (ref. 8) for computing the interference of the slipstream of a propfan on a supercritical wing at subsonic speeds. An outline of the theory, description of the computer code and an illustration of the input/output procedure with a test case is presented. The logic of the slipstream-wing interaction code consists of two steps and these are: 1) subsonic

flow analysis, and 2) propeller slipstream simulation.

Experimental results for the test case are presented in reference 9. The configuration selected for the test case is a generic model consisting of an over wing nacelle integrated with an unswept supercritical wing.

Subsonic Flow Analysis

The subsonic flow analysis utilizes a three dimensional low speed panel code (ref. 10). Compressibility effects are modelled by incorporating the Goethert correction. For the subsonic flow analysis part, the geometric quantities which define the configuration and the desired freestream flow conditions are input. The geometry of the panels fixes the centroid of the panel control points and the prop onset velocity due to the slipstream at these control points are determined in the next step.

Propeller Slipstream Simulation

There are three distinct effects of the propeller slipstream which are, (1) the total pressure change across the slipstream, (2) the increased axial velocity downstream of the propeller due to the thrust force and due to the contraction of the slipstream, and (3) the swirl and the tangential velocity due to the torque of the propeller.

The thrust exerted by the propeller results in a discontinuous increase in total pressure of the flow as it passes through the disc which is manifest as a continuous increase in the slipstream axial velocity and an abrupt rise in static pressure. Due to the reaction of the torque of the propeller the slipstream will have a rotational motion imparted to it and this increases the kinetic energy of the slipstream.

The propeller modelling incorporated in the computer code is based on the principles derived from both the momentum theory and the blade performance theory.

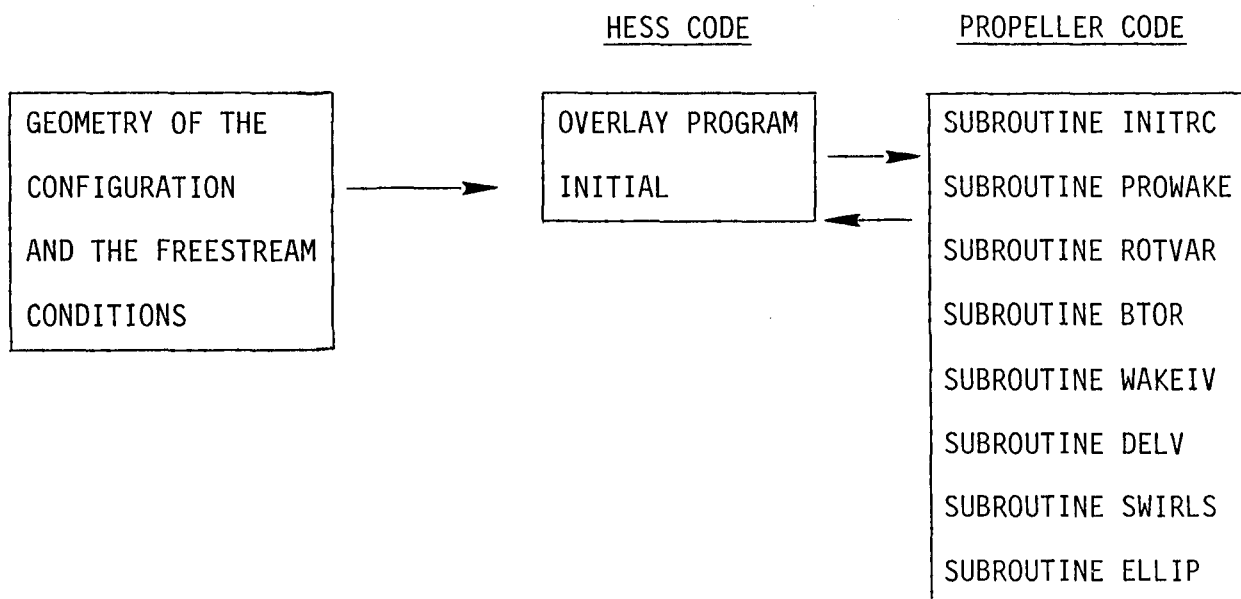
The axial velocity increase is modelled either by the vortex ring method (ref. 11) or by the blade performance theory calculation (ref. 12).

The tangential velocity distribution along the radius of the propeller in the propeller plane is calculated from blade performance theory. The tangential velocity at any desired point in the slipstream is calculated by determining the radius on which the desired point lies in the slipstream and let this be R_p (see figure 1). R_S is the corresponding position of the starting streamline at the blade, which will be passing through the point in the slipstream with radius R_p . The value of the tangential velocity on the prop plane at this radius R_S is obtained by interpolating the tangential velocity calculated by the blade performance theory. The tangential velocity at the point R_p in the slipstream is obtained by applying the conservation of angular momentum relations (ref. 8). For the propeller alone slipstream velocity prediction, the interpolated value of the tangential velocity at the blade radius R_S on the blade is made use of in the calculation. But for the propeller-slipstream-wing interference problem, it is inferred that the interpolated tangential velocity obtained at R_S , should be considered as if it was obtained at the blade tip at $R = R_0$. This fact was evidenced by running a variety of cases and comparing it with the experimental pressure and normal coefficient distribution. The theoretical results for the slipstream-wing interference prediction, calculated for a large number of cases compared well with the experiments by assuming the interpolated tangential velocity at R_S , occurs at the tip of the blade, instead of at radial location R_S . But for the propeller alone slipstream velocity predictions the above mentioned assumption of treating the interpolated tangential velocity at R_S , to be the same at the tip does not yield accurate results when comparing with the experimental results. So, for the propeller alone slipstream velocity prediction it is assumed that the interpolated tangential velocity at R_S occurs at R_S . This

yields a good comparison for the propeller alone slipstream calculation as evidenced by comparison of the results with experiments (ref. 13). Pressure increase is obtained by combining the axial velocity increase, and the swirl velocity changes with the one dimensional momentum theory.

System Execution Procedure

The outline of the slipstream-wing interaction code is given in the following flow chart. The sequence of the computational details follows the ideas expressed in reference 11.



As explained in the flowchart, the overlay program INITIAL in the HESS code calls the propeller onset flow calculation routines INITRC and PROWAKE. Subroutine INITRC reads the propeller operating conditions, propeller geometry, and the coordinates of the propeller hub with respect to the aircraft nose coordinate system. With this information, the subroutine INITRC calculates the axial induced velocity and the tangential velocity distribution along the prop plane radius, and assigns the values of the axial induced velocity and the tangential induced velocity to the variable WAXI and WTAN in the common block WAKVIS.

Subroutine PROWAKE brings in the centroid of the panel points of the given configuration from the HESS code. After converting the panel points from the compressible plane to the original physical plane, subroutine BTOR locates the centroid of the panel point with respect to the propeller coordinate system. Subroutine DELV is called to calculate the axial induced velocity, and the tangential induced velocity component. Either the vortex ring method or the blade performance theory is made use of in calculating the axial induced velocity. Subroutine DELV calls subroutine WAKEIV to calculate the axial induced velocity by vortex ring method. Axial induced velocity in the slipstream by blade performance theory is calculated in subroutine SWIRLS. Subroutine DELV calls subroutine SWIRLS to compute the tangential induced velocity and the pressure increase in the slipstream. The pressure increase is comprised of the static pressure increase and the dynamic pressure increase (ref. 11). The tangential velocity is resolved in the x, y direction of the propeller (see figure 2 for the axis definition of the propeller and the aircraft coordinate system). Then subroutine PROWAKE converts the velocity components v_x , v_y , v_z in the propeller coordinate system to the aircraft coordinate system, namely u , v , and w component of the velocity. These velocity components in the physical plane are transformed back to the compressible plane by Goethert's compressibility correction. These prop onset velocity components u , v , w are suitably combined in HESS code for the normal boundary condition.

In case the viscous effects are to be modelled along with the prop onset velocities, then a separate viscous code (ref. 14) is made use of in predicting the transpiration velocities on the wing planform. The transpiration normal velocity (suction or blowing) are read into the HESS code and this velocity is combined with the prop onset velocity to calculate the final flow on the wing configuration.

Input/Output Parameters

The given configuration is panelled according to the input specification found in reference 10. After the last card containing the x, y, z, value of the geometry of the configuration, with the indices of the i, j, according to the HESS input being 3 and 0, the namelist NPUT is read. The namelist NPUT consists of the following parameters:

- AMACH - the free stream Mach number of the propeller.
- ALPHA - the angle of attack of the prop in degrees.
- BETACH - default is zero and this means the pitch angle at the 3/4th blade radius span station is 52.5 degrees. For example if the pitch angle at 3/4th blade radius span station is 60.0 degrees, then $BETACH = 60.0 - 52.5 = 7.5$ degrees. If pitch angle at 3/4th is 40 deg., then $BETACH = 40 - 52.5 = -12.5$.
- RADCHG - the parameter to change the radius of the prop. By default the radius is set to 6.25 inches. If user wants to input a prop with a radius other than 6.25 inches, then divide the desired radius in inches by 6.25 and this gives the value of the RADCHG. For example, if a propeller of 8.45 inches radius is desired, then $RADCHG = 8.45/6.25 = 1.352$.
- B - number of blades.
- ADVANCE - the advance ratio of the prop = $V_{\infty}/N.D$. V_{∞} is the free stream velocity in feet/sec. N is the number of revolutions/sec of the propeller. D is the diameter of the prop in feet.
- IRING - parameter to invoke the vortex ring method for calculating the axial induced velocity. $IRING = 1$ when vortex ring calculation is desired. If not, $IRING = 0$. Unless needed, it is always

better to use $IRING = 0$ (that is the axial induced velocity is calculated by the blade performance theory).

- IROT - parameter for defining the prop rotation. IROT is +1 if the prop rotation is such that there is an upwash in the inboard side (clockwise looking forward in the case of a right hand wing). IROT is -1 when the prop rotation is such that there is a downwash in the inboard side. (See fig. 2)
- XH - x location of the prop with respect to the aircraft coordinate system.
- YH - y location of the prop with respect to the aircraft coordinate system.
- ZH - z coordinate of the prop with respect to the aircraft coordinate system.
- CTE - the thrust coefficient.
- RC - the root cutout position of the prop blade expressed in r/R .
- INTERF - parameter for prop alone solution or prop slipstream-wing interference solution. INTERF = 1, when propeller slipstream wing interference solution is desired; INTERF = 0, if propeller alone slipstream flow field is desired.

The next 19 cards are the data containing information about the blade geometry at 19 various span stations along the blade radius. These are: $(AX(I), BETA(I), CHORD(I), I = 1, 19)$ in 3F10.5. $AX(I)$ are the radial span location of sections in feet and are defined starting from the root cutout, to the section very close to the tip of the blade. The information given in the sample input is for a SR2 propfan blade. For other blades, the user should modify these stations accordingly. $BETA(I)$ are the pitch angles of the blade at these respective span stations in degrees. Again the values given are for the SR2 propfan.

CHORD(I) are the chord length in feet at these respective span stations. For changing the radius and the pitch angle of the prop, to other values, do not change CHORD and BETA in this card. Simply change the RADCHG and BETACHG parameters in the name list NPUT. The program will automatically scale the radius and the chord at various stations of the prop by the factor RADCHG. Similarly it scales the pitch angle also by the factor BETACHG. The next 9 cards are the free stream Mach numbers (AMACHG(I), I = 1, 9) in F10.6 format, at which the prop fan blade sectional aerodynamic characteristics $dcl/dalpha$ are provided. Next 9 cards are the $dcl/dalpha$ at the AX(I) station for the freestream Mach numbers from AMACHG(1) to AMACHG(9) in format F10.6. This set of 9 values have to be repeated for the rest of the 18 span stations. Again the values for DCL/DALPHA given in the sample input are for SR2 propfan blade section from 0.05 Mach number to 0.7 Mach number. For other propellers the user has to furnish these values. The MCARF program (ref. 15) can be used to compute the required information.

This finishes the input needed to model the slipstream. After the above mentioned cards, the HESS panel centroid, the normals and the area have to be attached in a similar way as that of running a HESS code.

Description of the Output

In the output, the namelist NPUT has the following parameters.

CTE - propeller thrust coefficient.

ALPHA - angle of attack of the prop.

RADIUS - radius of the prop in inches.

XH,YH,XH - the location of the prop with respect to the aircraft in inches.

VELO - freestream velocity in ft/sec.

VTIP - is the tip velocity in ft/sec.

PSI - the ratio of the area of the final contracted wake to the area of the prop.

TIP - tip of the prop in r/R .

NSTA - number of span stations along the blade radius.

RC - root cutout in r/R .

XMU - the parameter defining the cross flow on the prop.

XLAM - the parameter defining the through flow at the propeller including the induced velocity. It is nondimensionalized with respect to the tip velocity.

XI - the skew angle of the slipstream to the wind tunnel axis.

VI - the value of the induced velocity calculated from the momentum theory in ft/sec.

IPRNT - 2, an option to print the slipstream velocities.

IRING - deals with the option whether vortex ring theory or blade performance theory is invoked for the axial component of the induced velocity.

X - 20 stations of the nondimensional span-locations along the blade radius on which the axial induced velocity component and the tangential induced velocity component are calculated by the blade performance theory in SUBROUTINE INITRC.

WAXI - the axial component of the induced velocity, at X locations in ft/sec.

WTAN - the tangential component of the induced velocity, at X locations in ft/sec.

PRAN - the tip loss correction factor at the NSTA span stations.

ADVANCE - the advance ratio of the propeller.

AMACH - the free stream Mach number.
BETACH - parameter for changing the pitch of the propeller blade.
RADCHG - the parameter for changing the radius of the propeller.
BETAT - the propeller tip pitch angle.
B - number of blades.
IROT - the parameter for fixing up the direction of rotation of the prop.
INTERF - as defined earlier.

After the above described parameters, the panel centroid points with their x , y , z , values, and the induced velocities, transformed with respect to the aircraft coordinate system are given. The pressure increase is also printed and after this information, HESS code prints the final velocity distribution and the C_p distribution, which includes the slipstream effects and the boundary layer effects in the boundary conditions. A punched output file "BLOUT" giving the x , y , z , u , v , w and C_p values in FORMAT (7E12.5) is available at the end of the calculation for post processing.

Test/Theory Comparisons

The above code has been applied to a straight supercritical wing/overwing nacelle/powered prop configuration as shown in figure 3 and the results are discussed below.

The operating conditions are: $C_T = 0.408$, $M_\infty = 0.5$, $\alpha = 2.992$, advance ratio (J) = 2.222, SR2 propeller with radius = 6.25 inches. The rotation of the propeller is in the counter-clockwise direction when looking from the front of the propeller. The span stations are given in figure 4. When looking from the front (aircraft nose), the upwash is in the span stations 1, 2, 3, 4, 5 and the downwash is on 7, 8, 9, 10, 11. The C_p comparison of the theory with the

experiments are shown in figure 5 and 6. In figure 5, the IRING value is set to 1, that is, the axial induced velocity is obtained from the vortex ring theory, and the tangential velocity is obtained from the blade performance theory. In figure 6, IRING value is set to 0, that is both the axial velocity, and the tangential velocity are calculated from the blade performance theory. The comparisons in figure 5 and 6 are almost similar, and there is not much difference in the calculated C_p by the option IRING values. Figure 7 compares the C_N distribution obtained by integrating the pressures. The C_N values, predicted by using the option IRING = 0 yields much accurate results than the option of letting IRING = 1. Reference 8 gives the comparisons of the theory and the test results at various power levels.

Conclusions

A computer code for analysing the effect of the slipstream on a wing/nacelle configuration is briefly discussed. The input-output instructions are defined and the theoretical calculations are compared with the experiments. The agreements are moderate. Use of the parameter IRING with a value of 0 is highly recommended for the calculation of the axial induced velocity component in the slipstream. For the supercritical wing section, inclusion of the transpiration velocity for modelling the viscous effects on the wing section is most desirable and enhances the accuracy of the calculations.

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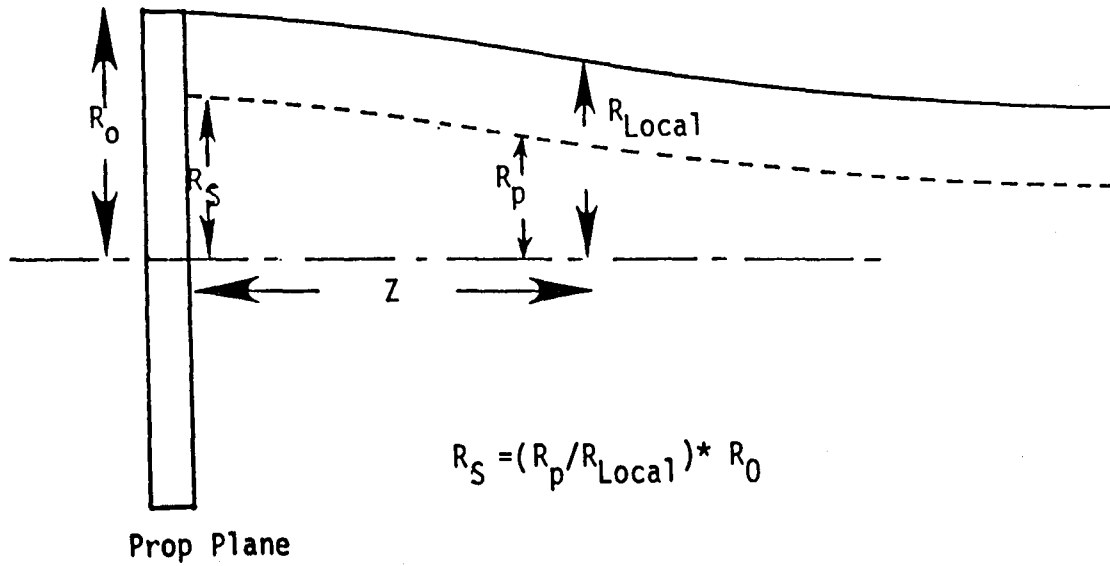
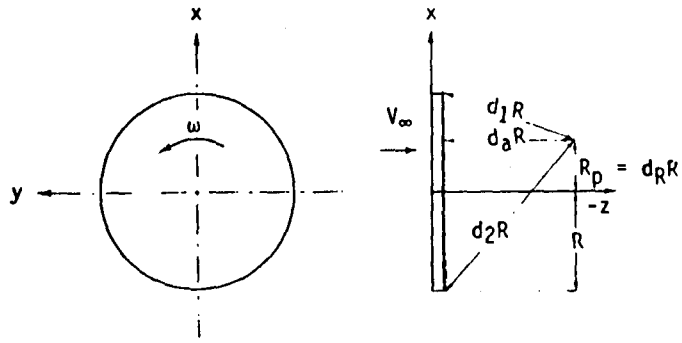
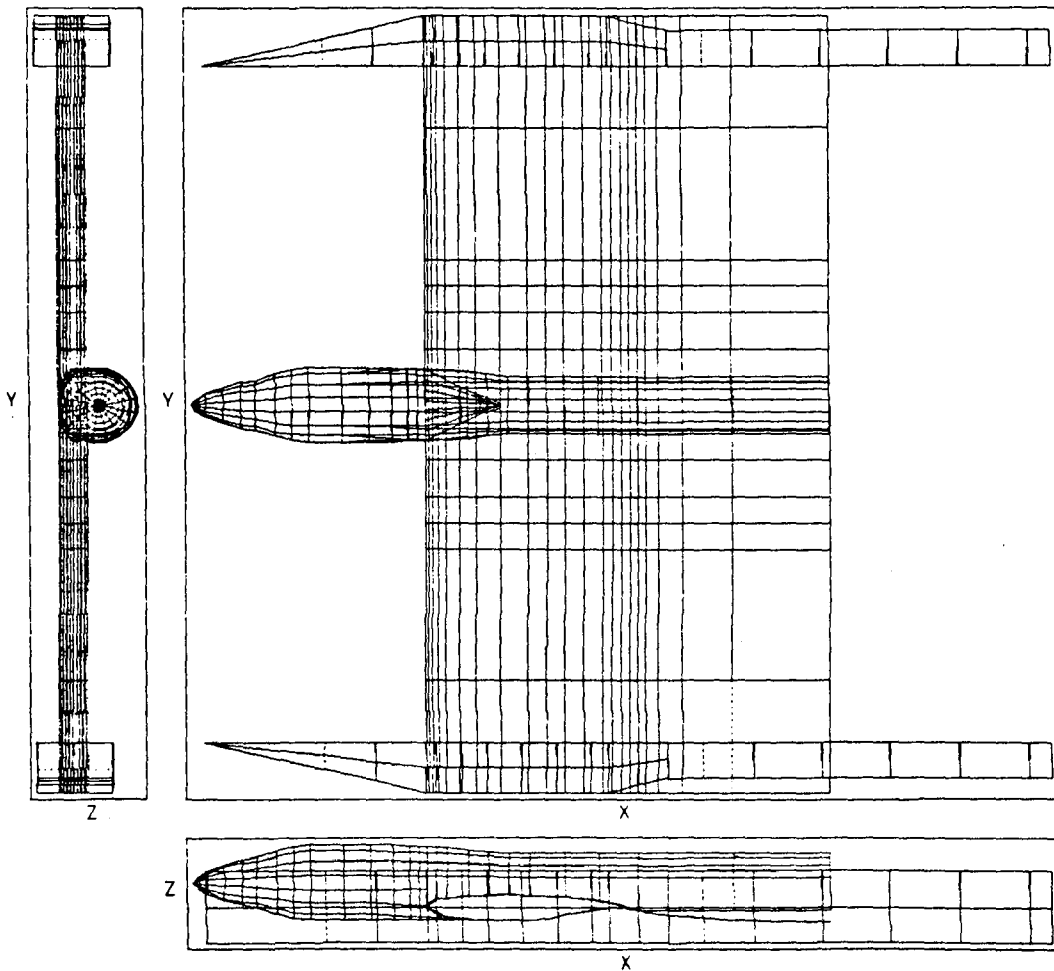


Figure 1. Definition of Slipstream Parameters.



a) Propeller Coordinate System.



b) Aircraft Coordinate System.

Figure 2. Propeller-Aircraft Coordinate System.

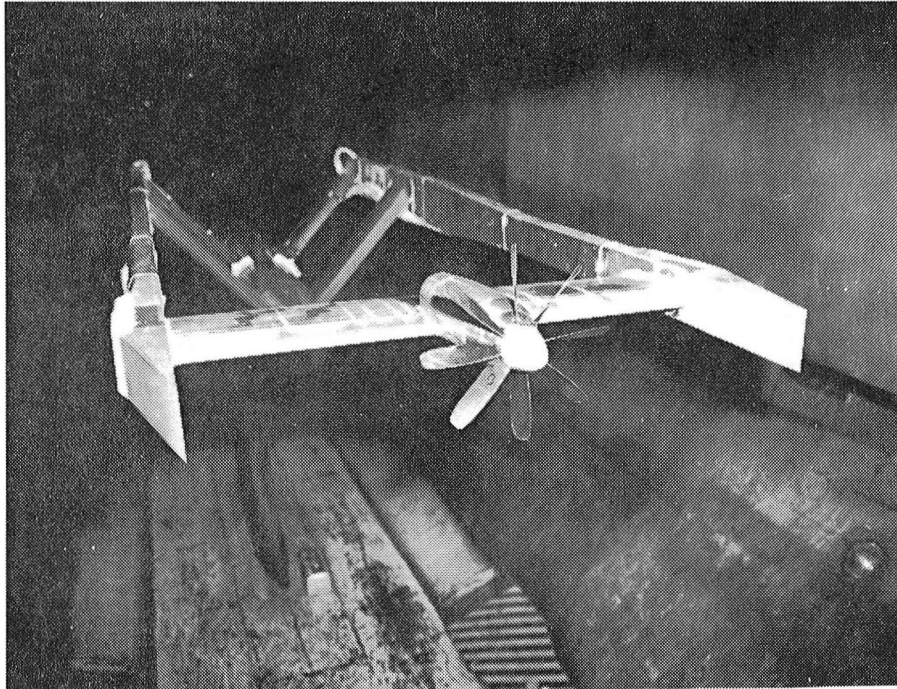


Figure 3. Photograph of the Wing/Overwing Nacelle/Propeller in the Wind Tunnel.

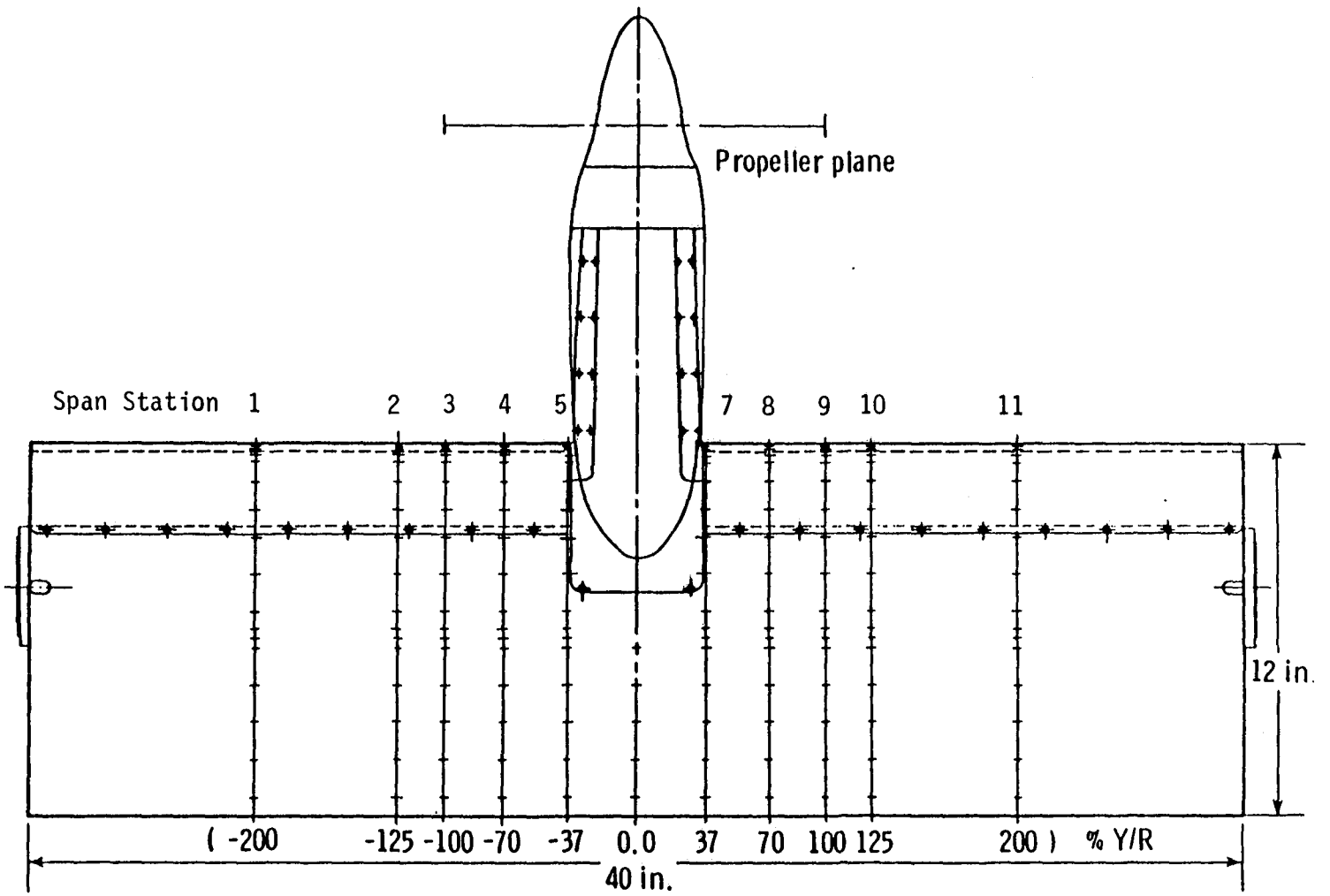


Figure 4. Model Planform.

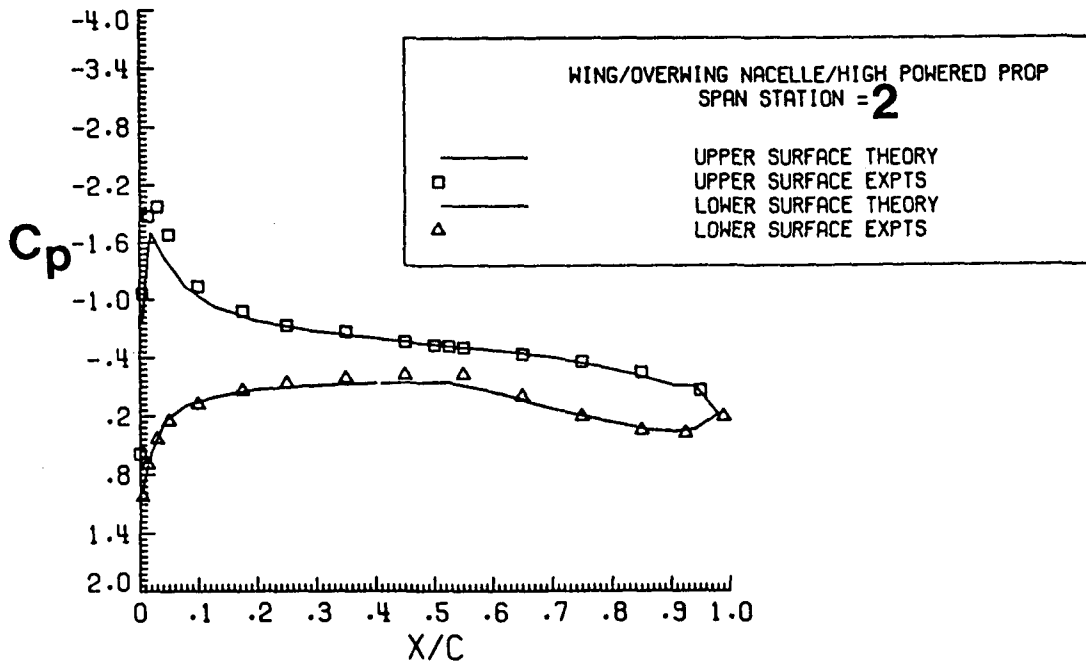
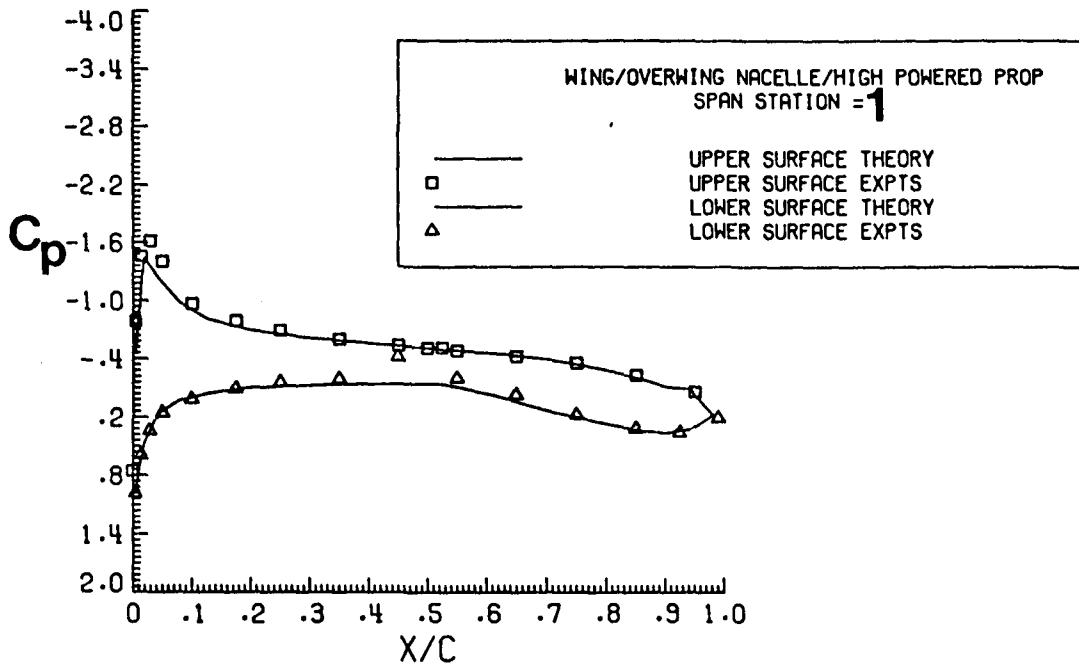


Figure 5. C_p Comparison for Wing/Overwing Nacelle/High Power by the Option IRING=1, $C_T = 0.408$, $M_\infty = 0.5$, $\alpha = 2.992$ Degrees.

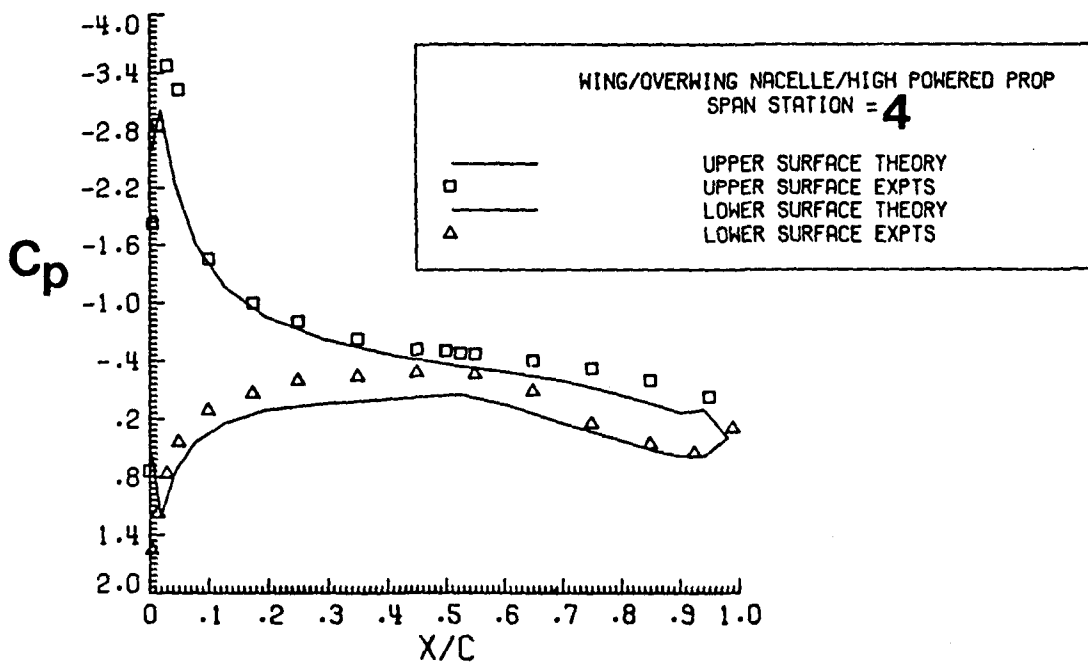
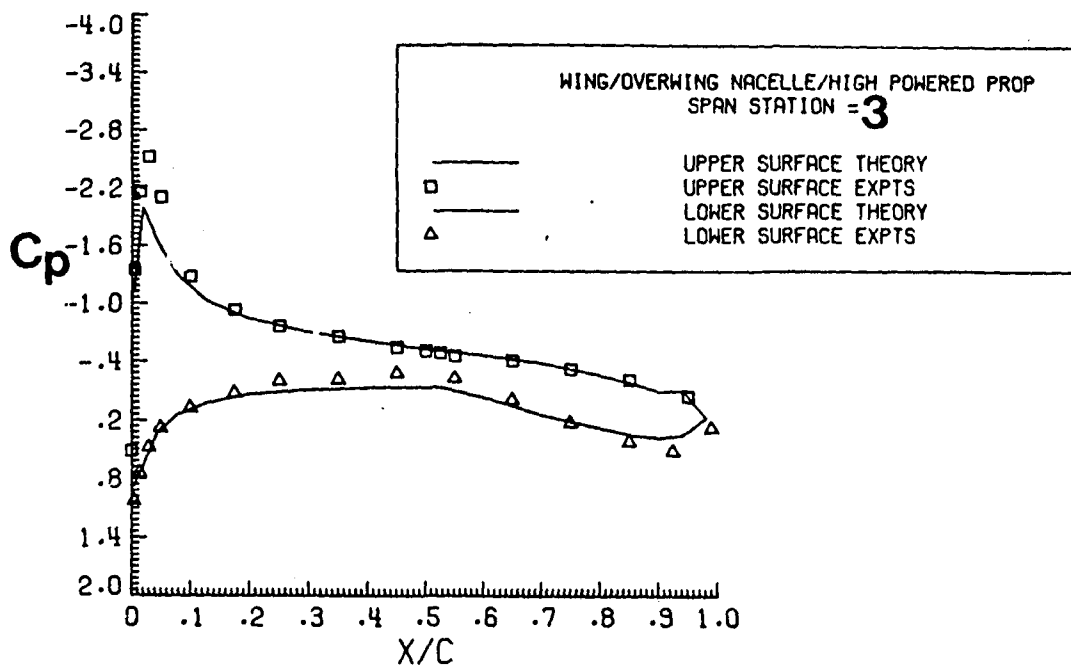


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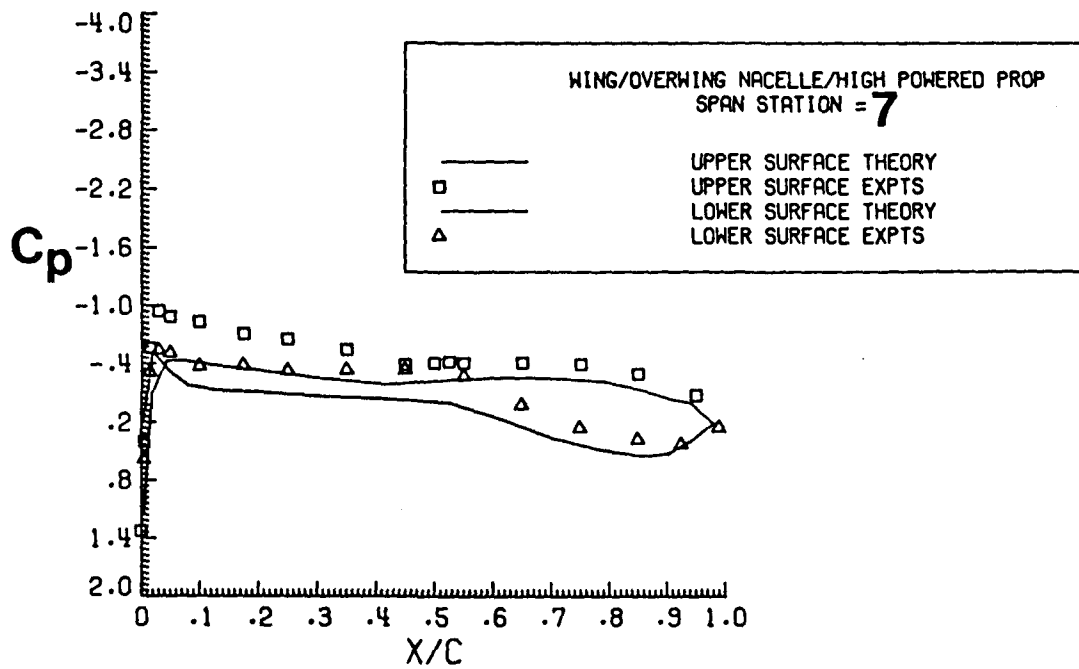
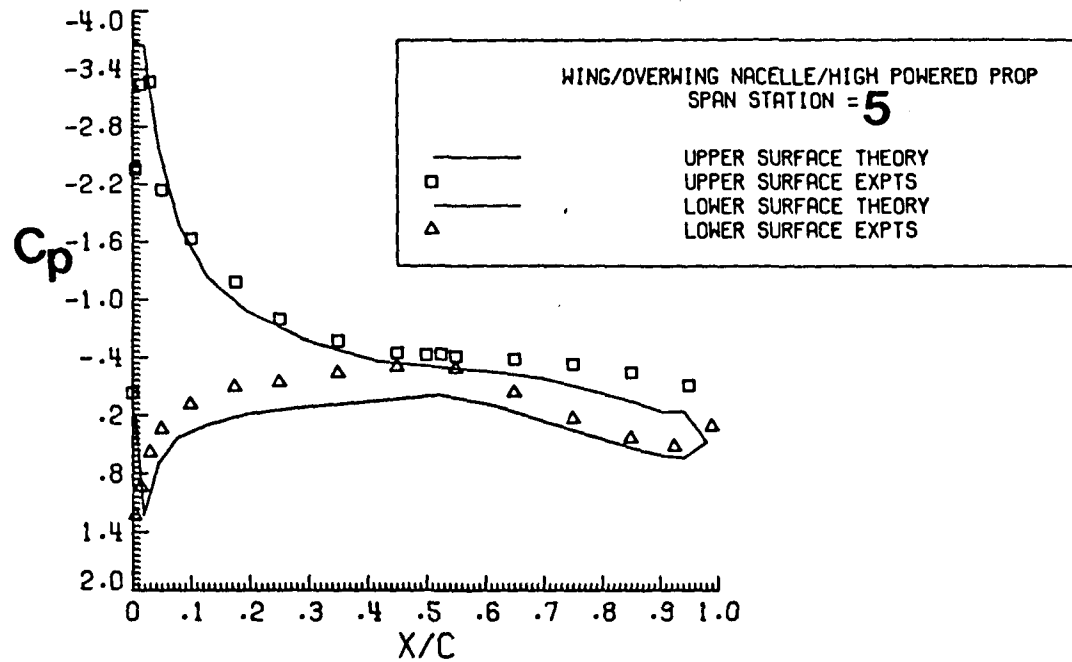


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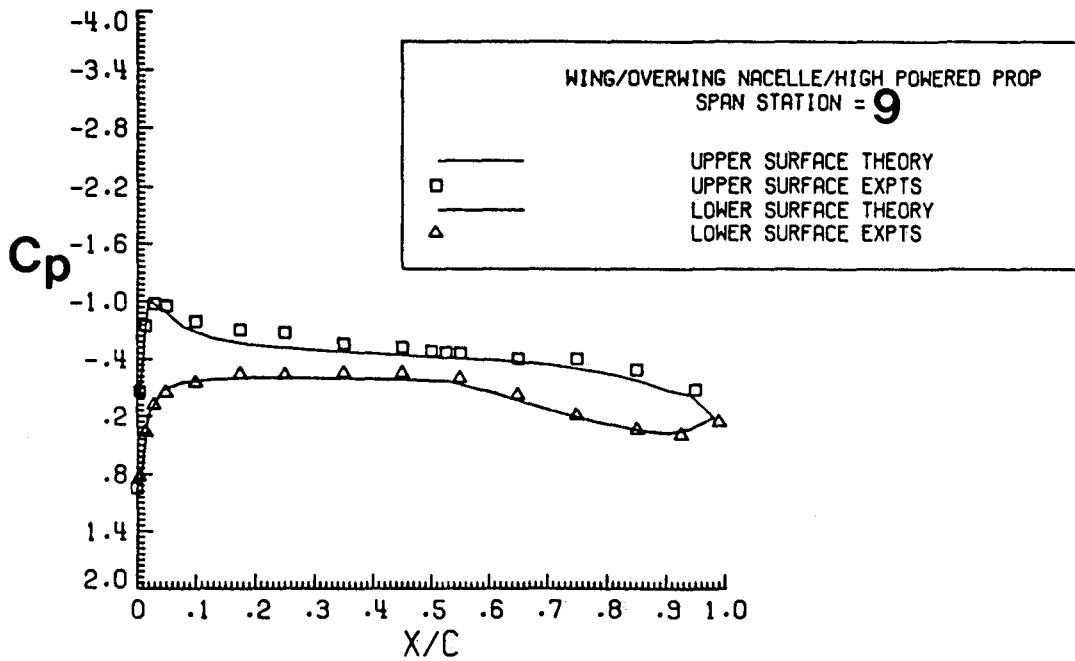
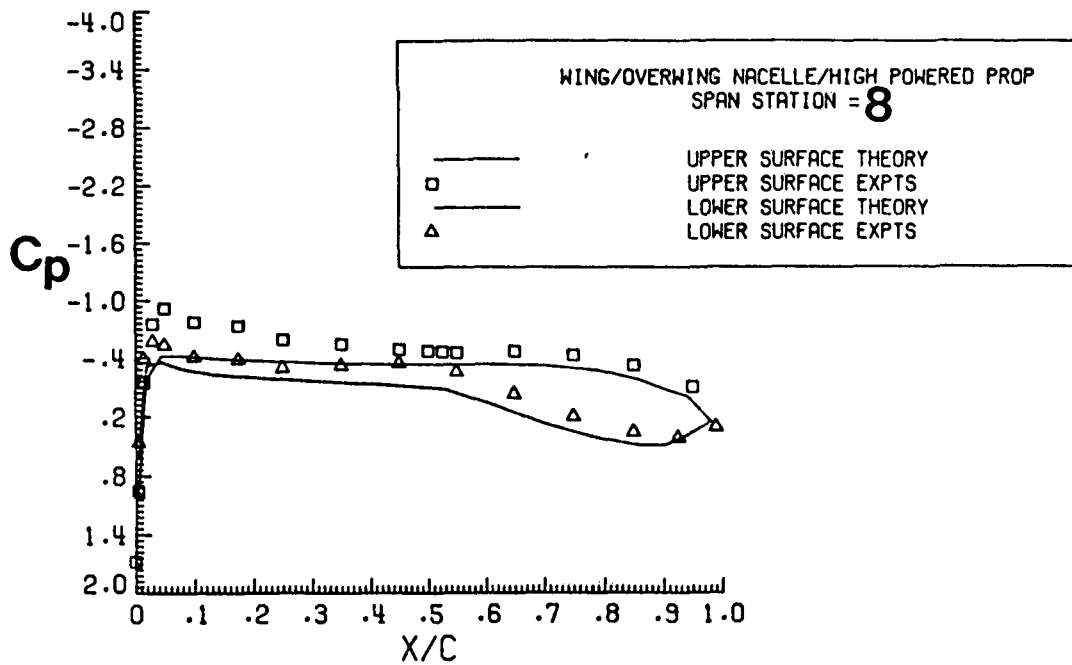


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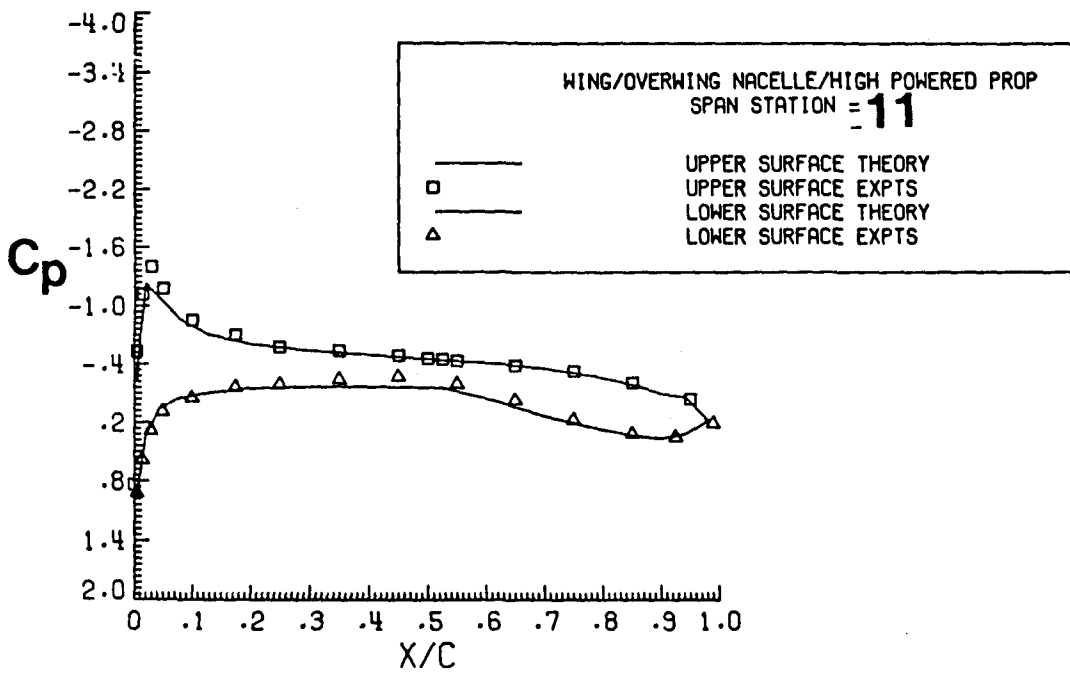
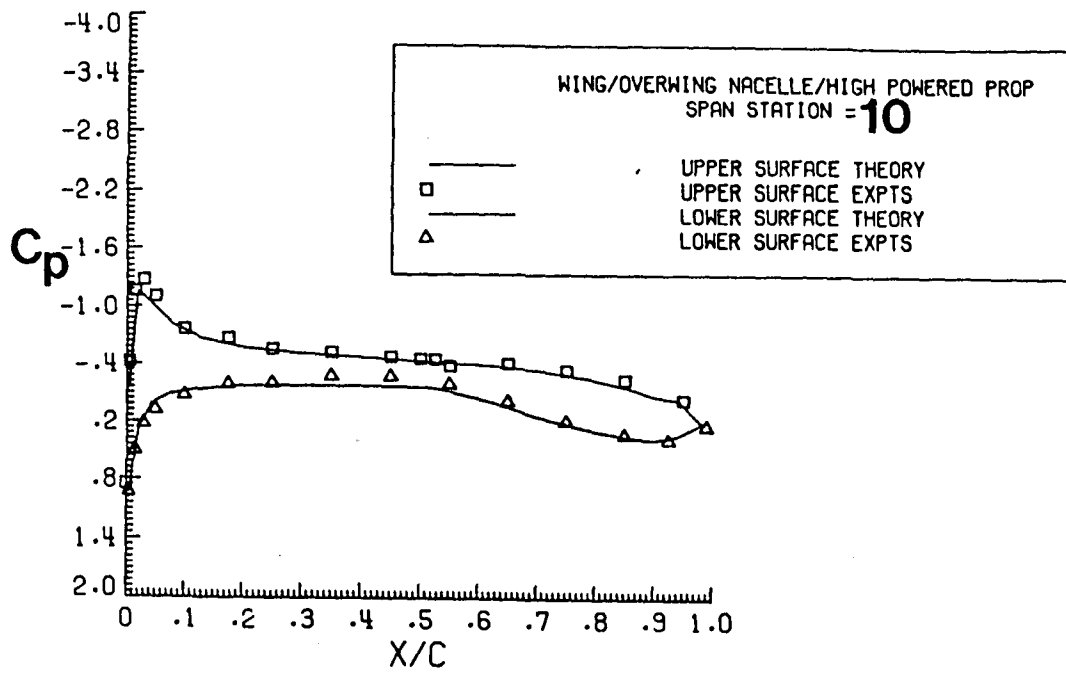


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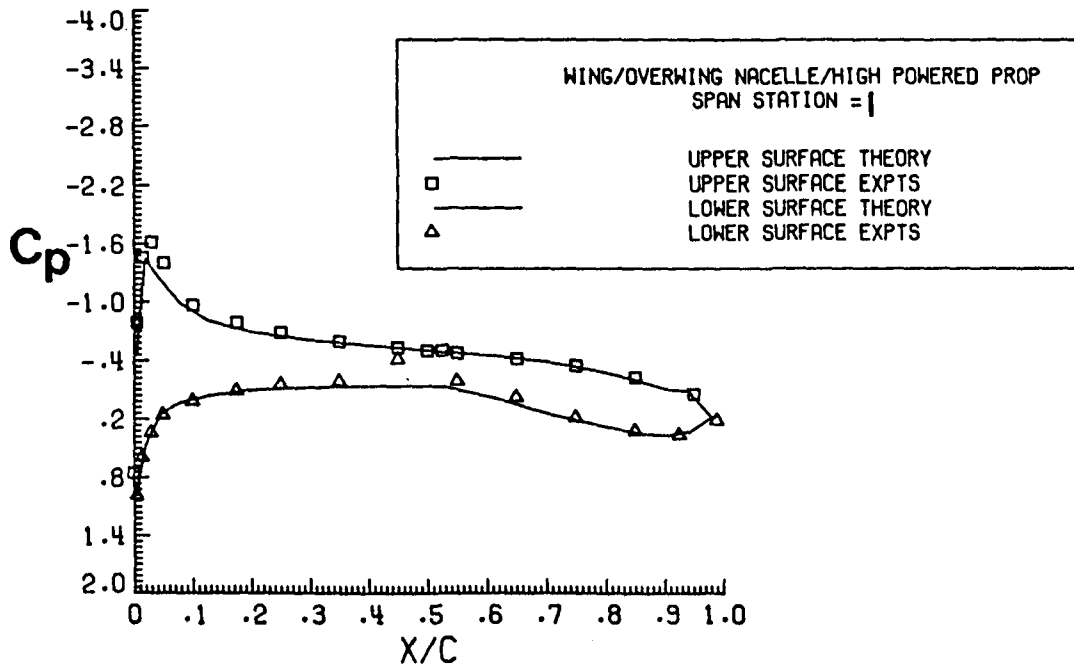


Figure 6. C_p Comparison for High Thrusting Load by the Option IRING=0, $C_T = 0.408$, $M_\infty = 0.5$, $\alpha = 2.992$ Degrees.

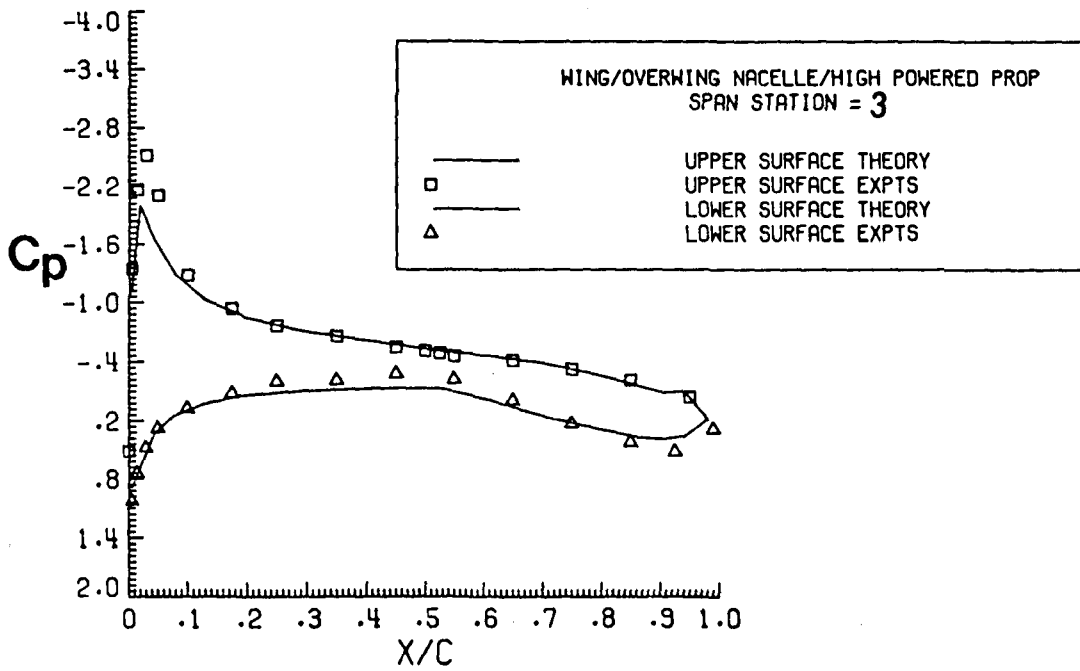
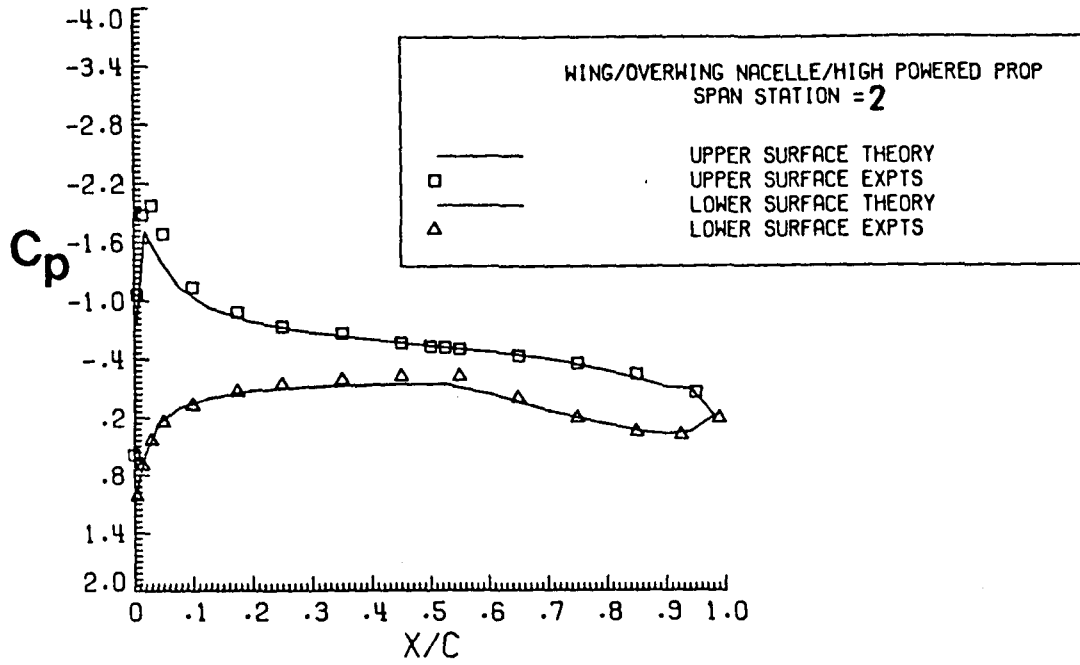


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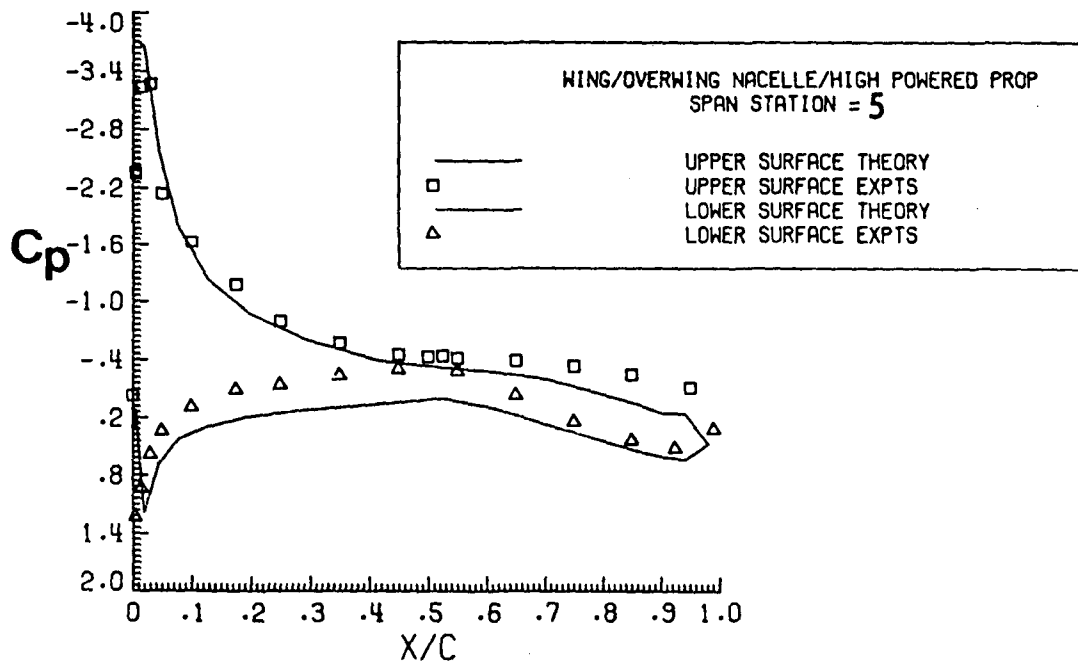
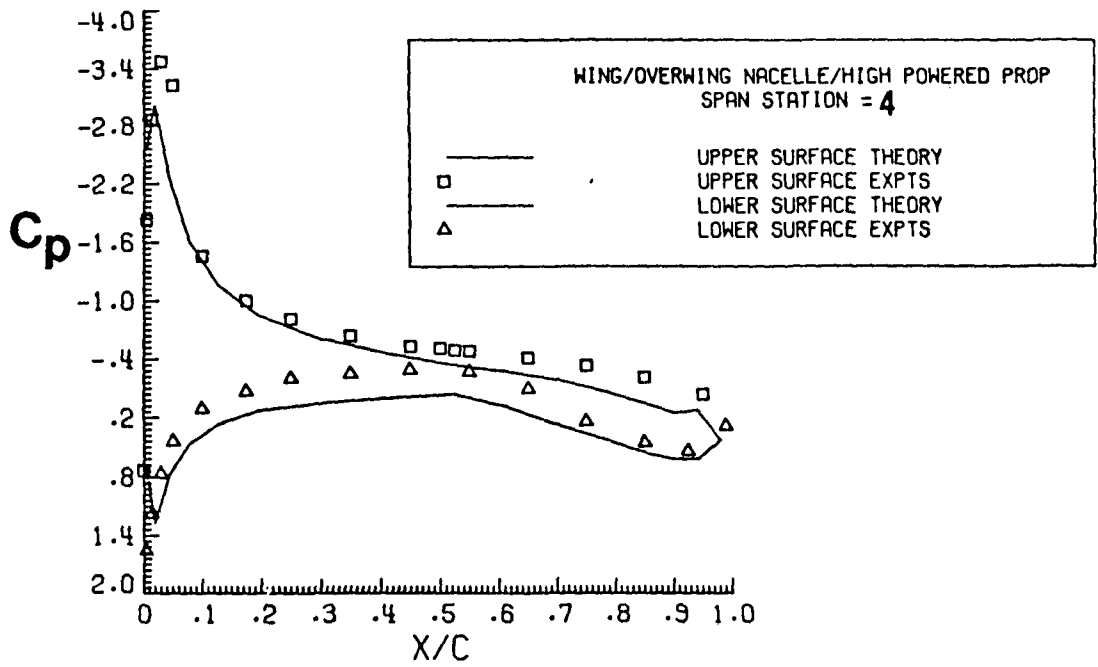


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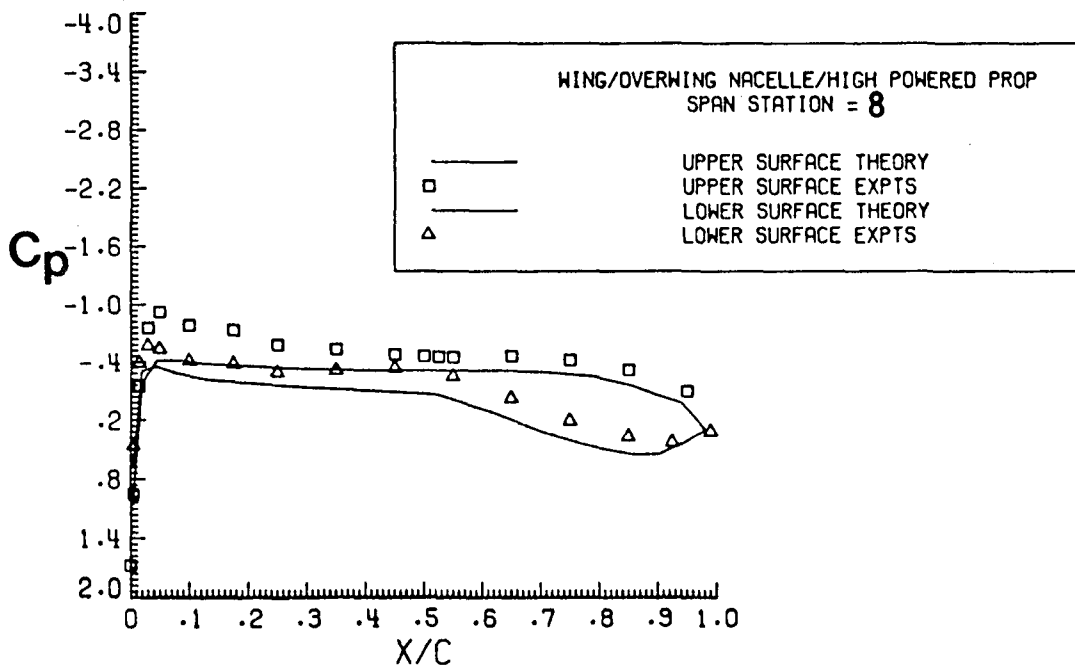
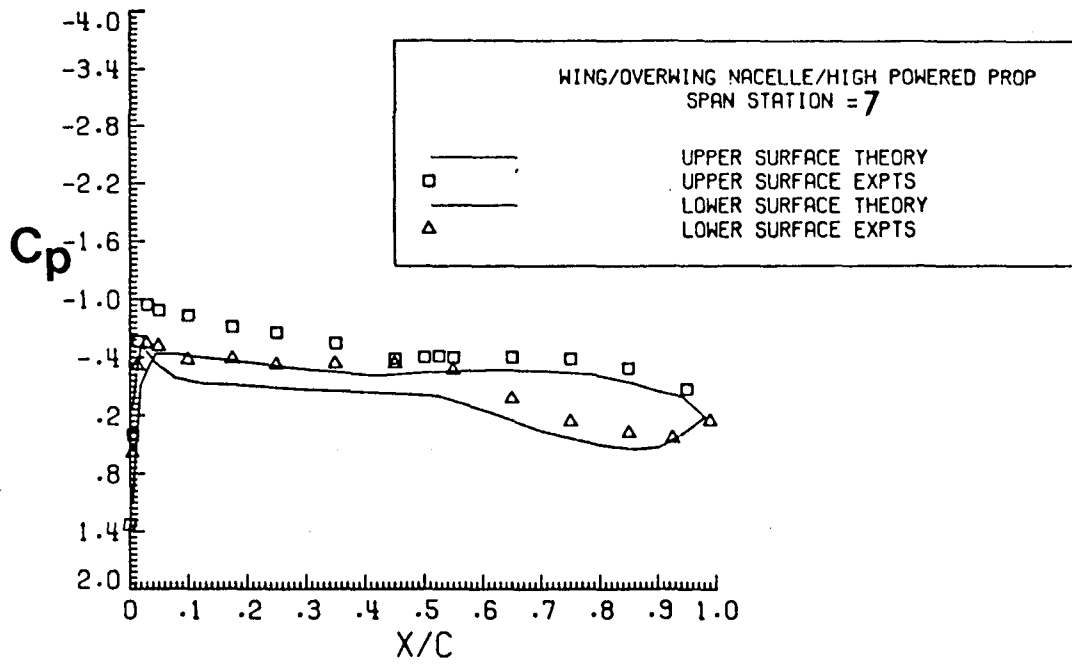


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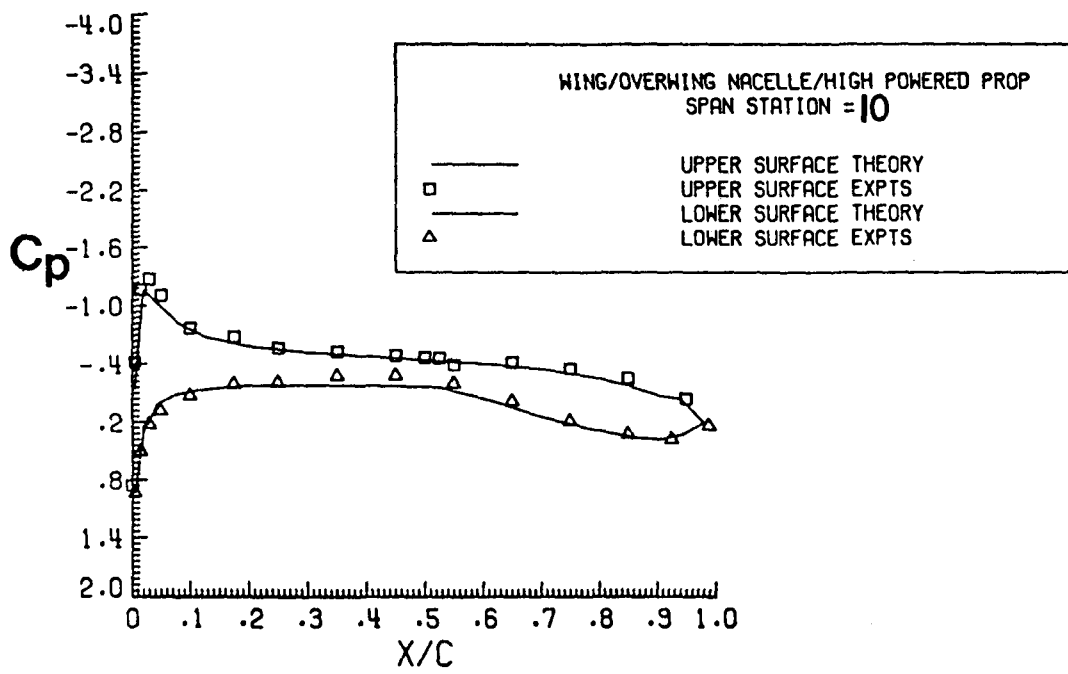
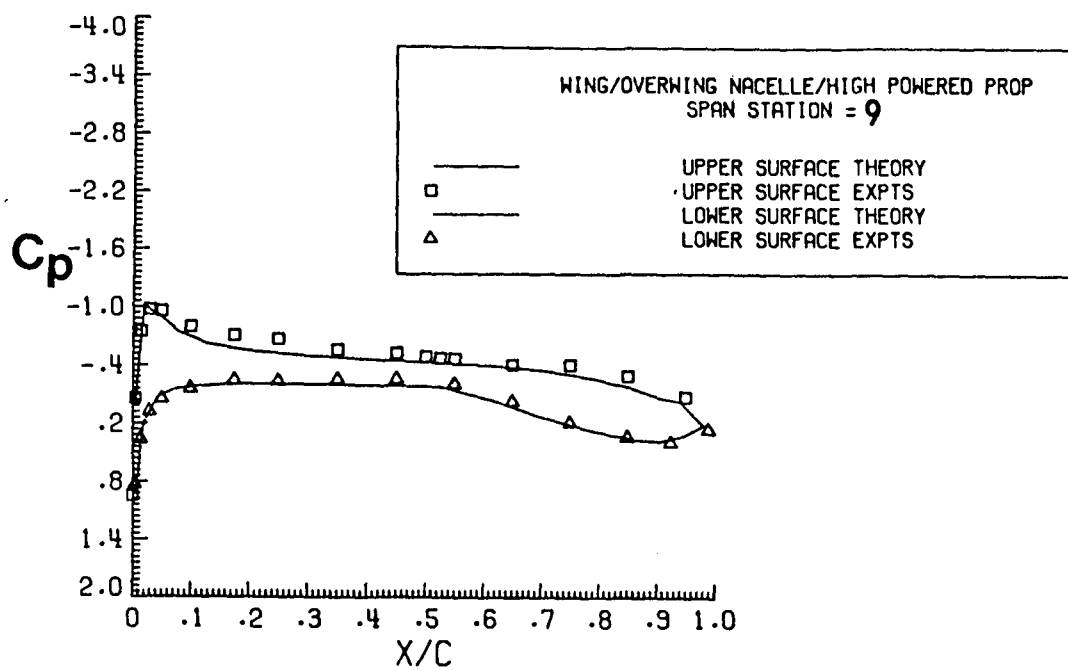


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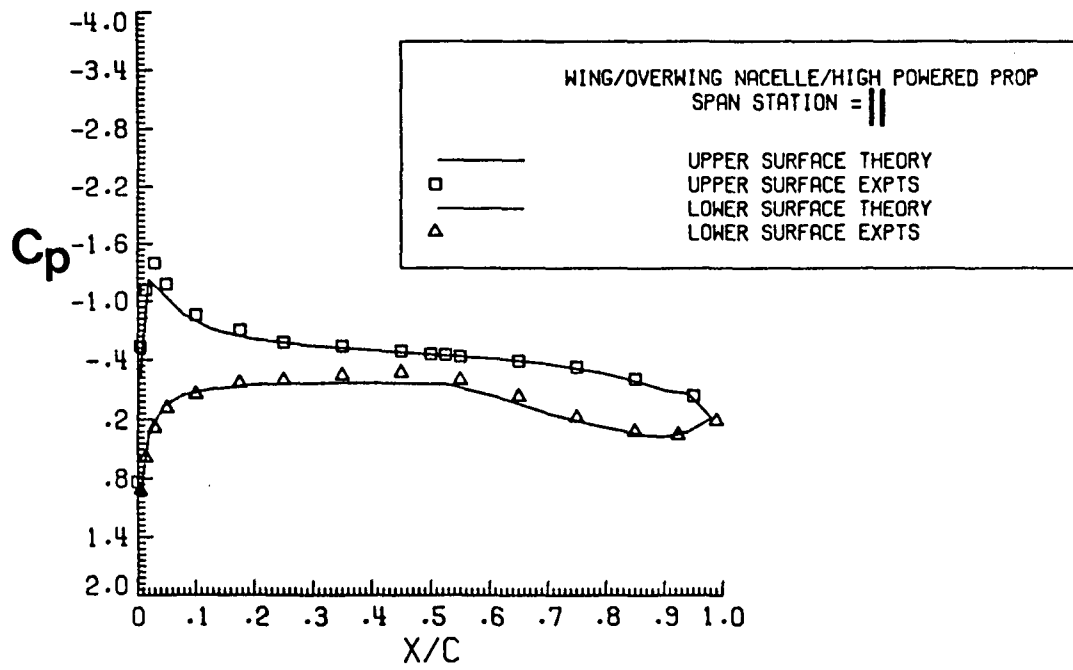


Figure 6. Concluded.

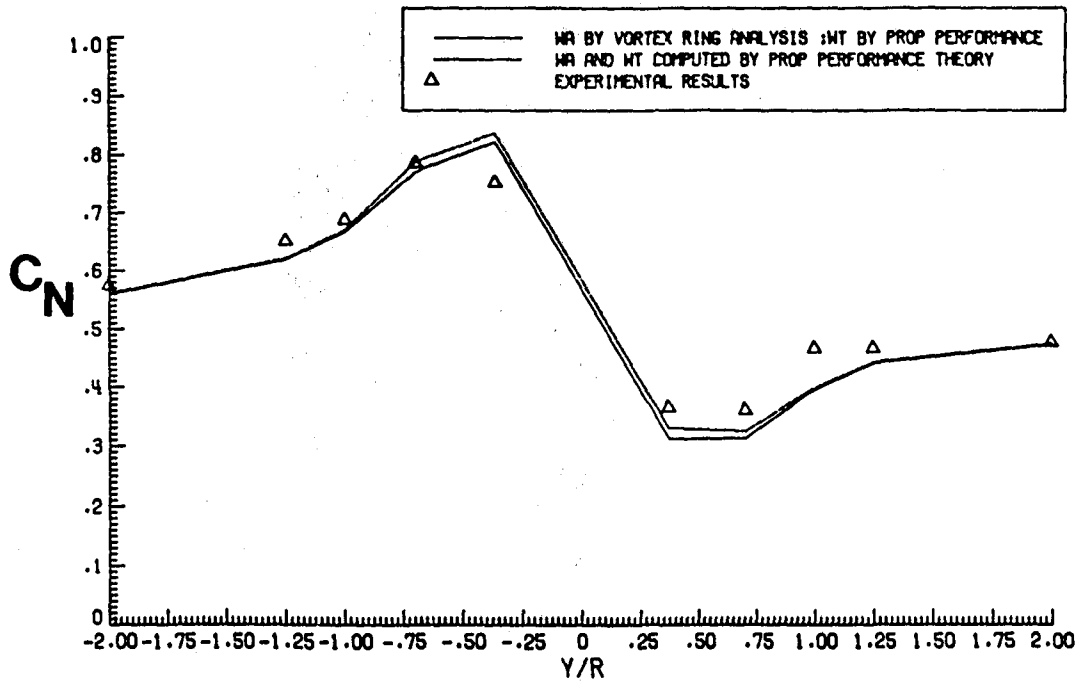


Figure 7. C_N Comparisons for the High Power with IRING=0 and with IRING=1, $C_T = 0.408$, $M_\infty = 0.5$, $\alpha = 2.992$ Degrees.

Appendix A. Sample Input and Output

SAMPLE INPUT

```

HESS      UNSWEPT TURBOPROP PANELING FOR OVER WING CONF.
1 1 0 0 0 0 0 0 0 1 1 0 1 0 0 1 1 1.5001
0.9986366 0.0      0.0522017
32 5 15 0 2      00 0 0 0 0
12.2400 23.0000  -.154421
11.7600 23.0000  -.1067 1
11.2800 23.0000  -.0574 1
10.8000 23.0000  -.0523 1
10.2000 23.0000  -.0936 1
9.1200  23.0000  -.2488 1
8.0400 23.0000  -.4430 1
6.9600 23.0000  -.6169 1
5.8800 23.0000  -.7232 1
4.3200 23.0000  -.7727 1
2.8800 23.0000  -.7345 1
1.9200 23.0000  -.6575 1
1.2000 23.0000  -.5610 1
.7200  23.0000  -.4640 1
.3600  23.0000  -.3514 1
.1200  23.0000  -.2129 1
0.0000 23.0000  0.0000 1
.1200  23.0000  .2354 1
.3600  23.0000  .3752 1
.7200  23.0000  .4789 1
1.2000 23.0000  .5620 1
1.9200 23.0000  .6422 1
2.8800 23.0000  .7066 1
4.3200 23.0000  .7408 1
5.8800 23.0000  .7145 1
6.9600 23.0000  .6613 1
8.0400 23.0000  .5782 1
9.1200 23.0000  .4620 1
10.2000 23.0000  .3064 1
10.8000 23.0000  .2018 1
11.2800 23.0000  .1080 1
11.7600 23.0000  .0035 1
12.2400 23.0000  -.1544 1
12.7200 23.0000  -.2953 1
13.4400 23.0000  -.3898 1
14.8800 23.0000  -.5273 1
17.7600 23.0000  -.6958 1
23.5200 23.0000  -.8816 1
12.2400 20.0000  -.154411
11.7600 20.0000  -.1067 1
11.2800 20.0000  -.0574 1
10.8000 20.0000  -.0523 1
10.2000 20.0000  -.0936 1
9.1200  20.0000  -.2488 1
8.0400  20.0000  -.4430 1
6.9600  20.0000  -.6169 1
5.8800  20.0000  -.7232 1
4.3200  20.0000  -.7727 1
2.8800  20.0000  -.7345 1
1.9200  20.0000  -.6575 1
1.2000  20.0000  -.5610 1
.7200   20.0000  -.4640 1
.3600   20.0000  -.3514 1
.1200   20.0000  -.2129 1
0.0000  20.0000  0.0000 1
.1200   20.0000  .2354 1
.3600   20.0000  .3752 1
.7200   20.0000  .4789 1
1.2000  20.0000  .5620 1
1.9200  20.0000  .6422 1
2.8800  20.0000  .7066 1

```

4.3200	20.0000	.7408	1
5.8800	20.0000	.7145	1
6.9600	20.0000	.6613	1
8.0400	20.0000	.5782	1
9.1200	20.0000	.4620	1
10.2000	20.0000	.3064	1
10.8000	20.0000	.2018	1
11.2800	20.0000	.1080	1
11.7600	20.0000	.0035	1
12.2400	20.0000	-.1544	1
12.7200	20.0000	-.2953	1
13.4400	20.0000	-.3898	1
14.8800	20.0000	-.5273	1
17.7600	20.0000	-.6958	1
23.5200	20.0000	-.8816	1
12.2400	16.3750	-.154411	
11.7600	16.3750	-.1067	1
11.2800	16.3750	-.0574	1
10.8000	16.3750	-.0523	1
10.2000	16.3750	-.0936	1
9.1200	16.3750	-.2488	1
8.0400	16.3750	-.4430	1
6.9600	16.3750	-.6169	1
5.8800	16.3750	-.7232	1
4.3200	16.3750	-.7727	1
2.8800	16.3750	-.7345	1
1.9200	16.3750	-.6575	1
1.2000	16.3750	-.5610	1
.7200	16.3750	-.4640	1
.3600	16.3750	-.3514	1
.1200	16.3750	-.2129	1
0.0000	16.3750	0.0000	1
.1200	16.3750	.2354	1
.3600	16.3750	.3752	1
.7200	16.3750	.4789	1
1.2000	16.3750	.5620	1
1.9200	16.3750	.6422	1
2.8800	16.3750	.7066	1
4.3200	16.3750	.7408	1
5.8800	16.3750	.7145	1
6.9600	16.3750	.6613	1
8.0400	16.3750	.5782	1
9.1200	16.3750	.4620	1
10.2000	16.3750	.3064	1
10.8000	16.3750	.2018	1
11.2800	16.3750	.1080	1
11.7600	16.3750	.0035	1
12.2400	16.3750	-.1544	1
12.7200	16.3750	-.2953	1
13.4400	16.3750	-.3898	1
14.8800	16.3750	-.5273	1
17.7600	16.3750	-.6958	1
23.5200	16.3750	-.8816	1
12.2400	8.6250	-.154411	
11.7600	8.6250	-.1067	1
11.2800	8.6250	-.0574	1
10.8000	8.6250	-.0523	1
10.2000	8.6250	-.0936	1
9.1200	8.6250	-.2488	1
8.0400	8.6250	-.4430	1
6.9600	8.6250	-.6169	1
5.8800	8.6250	-.7232	1
4.3200	8.6250	-.7727	1
2.8800	8.6250	-.7345	1
1.9200	8.6250	-.6575	1
1.2000	8.6250	-.5610	1

.7200	8.6250	-.4640	1
.3600	8.6250	-.3514	1
.1200	8.6250	-.2129	1
0.0000	8.6250	0.0000	1
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.3600	8.6250	.3752	1
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1.2000	8.6250	.5620	1
1.9200	8.6250	.6422	1
2.8800	8.6250	.7066	1
4.3200	8.6250	.7408	1
5.8800	8.6250	.7145	1
6.9600	8.6250	.6613	1
8.0400	8.6250	.5782	1
9.1200	8.6250	.4620	1
10.2000	8.6250	.3064	1
10.8000	8.6250	.2018	1
11.2800	8.6250	.1080	1
11.7600	8.6250	.0035	1
12.2400	8.6250	-.1544	1
12.7200	8.6250	-.2953	1
13.4400	8.6250	-.3898	1
14.8800	8.6250	-.5273	1
17.7600	8.6250	-.6958	1
23.5200	8.6250	-.8816	1
12.2400	7.0000	-.1544	11
11.7600	7.0000	-.1067	1
11.2800	7.0000	-.0574	1
10.8000	7.0000	-.0523	1
10.2000	7.0000	-.0936	1
9.1200	7.0000	-.2488	1
8.0400	7.0000	-.4430	1
6.9600	7.0000	-.6169	1
5.8800	7.0000	-.7232	1
4.3200	7.0000	-.7727	1
2.8800	7.0000	-.7345	1
1.9200	7.0000	-.6575	1
1.2000	7.0000	-.5610	1
.7200	7.0000	-.4640	1
.3600	7.0000	-.3514	1
.1200	7.0000	-.2129	1
0.0000	7.0000	0.0000	1
.1200	7.0000	.2354	1
.3600	7.0000	.3752	1
.7200	7.0000	.4789	1
1.2000	7.0000	.5620	1
1.9200	7.0000	.6422	1
2.8800	7.0000	.7066	1
4.3200	7.0000	.7408	1
5.8800	7.0000	.7145	1
6.9600	7.0000	.6613	1
8.0400	7.0000	.5782	1
9.1200	7.0000	.4620	1
10.2000	7.0000	.3064	1
10.8000	7.0000	.2018	1
11.2800	7.0000	.1080	1
11.7600	7.0000	.0035	1
12.2400	7.0000	-.1544	1
12.7200	7.0000	-.2953	1
13.4400	7.0000	-.3898	1
14.8800	7.0000	-.5273	1
17.7600	7.0000	-.6958	1
23.5200	7.0000	-.8816	1
12.2400	5.5000	-.1544	11
11.7600	5.5000	-.1067	1
11.2800	5.5000	-.0574	1

10.8000	5.5000	-.0523 1
10.2000	5.5000	-.0936 1
9.1200	5.5000	-.2488 1
8.0400	5.5000	-.4430 1
6.9600	5.5000	-.6169 1
5.8800	5.5000	-.7232 1
4.3200	5.5000	-.7727 1
2.8800	5.5000	-.7345 1
1.9200	5.5000	-.6575 1
1.2000	5.5000	-.5610 1
.7200	5.5000	-.4640 1
.3600	5.5000	-.3514 1
.1200	5.5000	-.2129 1
0.0000	5.5000	0.0000 1
.1200	5.5000	.2354 1
.3600	5.5000	.3752 1
.7200	5.5000	.4789 1
1.2000	5.5000	.5620 1
1.9200	5.5000	.6422 1
2.8800	5.5000	.7066 1
4.3200	5.5000	.7408 1
5.8800	5.5000	.7145 1
6.9600	5.5000	.6613 1
8.0400	5.5000	.5782 1
9.1200	5.5000	.4620 1
10.2000	5.5000	.3064 1
10.8000	5.5000	.2018 1
11.2800	5.5000	.1080 1
11.7600	5.5000	.0035 1
12.2400	5.5000	-.1544 1
12.7200	5.5000	-.2953 1
13.4400	5.5000	-.3898 1
14.8800	5.5000	-.5273 1
17.7600	5.5000	-.6958 1
23.5200	5.5000	-.8816 1
12.2400	3.2500	-.154411
11.7600	3.2500	-.1067 1
11.2800	3.2500	-.0574 1
10.8000	3.2500	-.0523 1
10.2000	3.2500	-.0936 1
9.1200	3.2500	-.2488 1
8.0400	3.2500	-.4430 1
6.9600	3.2500	-.6169 1
5.8800	3.2500	-.7232 1
4.3200	3.2500	-.7727 1
2.8800	3.2500	-.7345 1
1.9200	3.2500	-.6575 1
1.2000	3.2500	-.5610 1
.7200	3.2500	-.4640 1
.3600	3.2500	-.3514 1
.1200	3.2500	-.2129 1
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.1200	3.2500	.2354 1
.3600	3.2500	.3752 1
.7200	3.2500	.4789 1
1.2000	3.2500	.5620 1
1.9200	3.2500	.6422 1
2.8800	3.2500	.7066 1
4.3200	3.2500	.7408 1
5.8800	3.2500	.7145 1
6.9600	3.2500	.6613 1
8.0400	3.2500	.5782 1
9.1200	3.2500	.4620 1
10.2000	3.2500	.3064 1
10.8000	3.2500	.2018 1
11.2800	3.2500	.1080 1

11.7600	3.2500	.0035	1
12.2400	3.2500	-.1544	1
12.7200	3.2500	-.2953	1
13.4400	3.2500	-.3898	1
14.8800	3.2500	-.5273	1
17.7600	3.2500	-.6958	1
23.5200	3.2500	-.8816	1
12.2400	1.3500	-.1544	11
11.7600	1.3500	-.1067	1
11.2800	1.3500	-.0574	1
10.8000	1.3500	-.0523	1
10.2000	1.3500	-.0936	1
9.1200	1.3500	-.2488	1
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6.9600	1.3500	-.6169	1
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4.3200	1.3500	-.7727	1
2.8800	1.3500	-.7345	1
1.9200	1.3500	-.6575	1
1.2000	1.3500	-.5610	1
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2.8800	1.3500	.7066	1
4.3200	1.3500	.7408	1
5.8800	1.3500	.7145	1
6.9600	1.3500	.6613	1
8.0400	1.3500	.5782	1
9.1200	1.3500	.4620	1
10.2000	1.3500	.3064	1
10.8000	1.3500	.2018	1
11.2800	1.3500	.1080	1
11.7600	1.3500	.0035	1
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14.8800	1.3500	-.5273	1
17.7600	1.3500	-.6958	1
23.5200	1.3500	-.8816	1
12.2400	-1.3500	-.1544	11
11.7600	-1.3500	-.1067	1
11.2800	-1.3500	-.0574	1
10.8000	-1.3500	-.0523	1
10.2000	-1.3500	-.0936	1
9.1200	-1.3500	-.2488	1
8.0400	-1.3500	-.4430	1
6.9600	-1.3500	-.6169	1
5.8800	-1.3500	-.7232	1
4.3200	-1.3500	-.7727	1
2.8800	-1.3500	-.7345	1
1.9200	-1.3500	-.6575	1
1.2000	-1.3500	-.5610	1
.7200	-1.3500	-.4640	1
.3600	-1.3500	-.3514	1
.1200	-1.3500	-.2129	1
0.0000	-1.3500	0.0000	1
.1200	-1.3500	.2354	1
.3600	-1.3500	.3752	1
.7200	-1.3500	.4789	1
1.2000	-1.3500	.5620	1

1.9200	-1.3500	.6422	1
2.8800	-1.3500	.7066	1
4.3200	-1.3500	.7408	1
5.8800	-1.3500	.7145	1
6.9600	-1.3500	.6613	1
8.0400	-1.3500	.5782	1
9.1200	-1.3500	.4620	1
10.2000	-1.3500	.3064	1
10.8000	-1.3500	.2018	1
11.2800	-1.3500	.1080	1
11.7600	-1.3500	.0035	1
12.2400	-1.3500	-.1544	1
12.7200	-1.3500	-.2953	1
13.4400	-1.3500	-.3898	1
14.8800	-1.3500	-.5273	1
17.7600	-1.3500	-.6958	1
23.5200	-1.3500	-.8816	1
12.2400	-3.2500	-.1544	11
11.7600	-3.2500	-.1067	1
11.2800	-3.2500	-.0574	1
10.8000	-3.2500	-.0523	1
10.2000	-3.2500	-.0936	1
9.1200	-3.2500	-.2488	1
8.0400	-3.2500	-.4430	1
6.9600	-3.2500	-.6169	1
5.8800	-3.2500	-.7232	1
4.3200	-3.2500	-.7727	1
2.8800	-3.2500	-.7345	1
1.9200	-3.2500	-.6575	1
1.2000	-3.2500	-.5610	1
.7200	-3.2500	-.4640	1
.3600	-3.2500	-.3514	1
.1200	-3.2500	-.2129	1
0.0000	-3.2500	0.0000	1
.1200	-3.2500	.2354	1
.3600	-3.2500	.3752	1
.7200	-3.2500	.4789	1
1.2000	-3.2500	.5620	1
1.9200	-3.2500	.6422	1
2.8800	-3.2500	.7066	1
4.3200	-3.2500	.7408	1
5.8800	-3.2500	.7145	1
6.9600	-3.2500	.6613	1
8.0400	-3.2500	.5782	1
9.1200	-3.2500	.4620	1
10.2000	-3.2500	.3064	1
10.8000	-3.2500	.2018	1
11.2800	-3.2500	.1080	1
11.7600	-3.2500	.0035	1
12.2400	-3.2500	-.1544	1
12.7200	-3.2500	-.2953	1
13.4400	-3.2500	-.3898	1
14.8800	-3.2500	-.5273	1
17.7600	-3.2500	-.6958	1
23.5200	-3.2500	-.8816	1
12.2400	-5.5000	-.1544	11
11.7600	-5.5000	-.1067	1
11.2800	-5.5000	-.0574	1
10.8000	-5.5000	-.0523	1
10.2000	-5.5000	-.0936	1
9.1200	-5.5000	-.2488	1
8.0400	-5.5000	-.4430	1
6.9600	-5.5000	-.6169	1
5.8800	-5.5000	-.7232	1
4.3200	-5.5000	-.7727	1
2.8800	-5.5000	-.7345	1

1.9200	-5.5000	-.6575	1
1.2000	-5.5000	-.5610	1
.7200	-5.5000	-.4640	1
.3600	-5.5000	-.3514	1
.1200	-5.5000	-.2129	1
0.0000	-5.5000	0.0000	1
.1200	-5.5000	.2354	1
.3600	-5.5000	.3752	1
.7200	-5.5000	.4789	1
1.2000	-5.5000	.5620	1
1.9200	-5.5000	.6422	1
2.8800	-5.5000	.7066	1
4.3200	-5.5000	.7408	1
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6.9600	-5.5000	.6613	1
8.0400	-5.5000	.5782	1
9.1200	-5.5000	.4620	1
10.2000	-5.5000	.3064	1
10.8000	-5.5000	.2018	1
11.2800	-5.5000	.1080	1
11.7600	-5.5000	.0035	1
12.2400	-5.5000	-.1544	1
12.7200	-5.5000	-.2953	1
13.4400	-5.5000	-.3898	1
14.8800	-5.5000	-.5273	1
17.7600	-5.5000	-.6958	1
23.5200	-5.5000	-.8816	1
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11.7600	-7.0000	-.1067	1
11.2800	-7.0000	-.0574	1
10.8000	-7.0000	-.0523	1
10.2000	-7.0000	-.0936	1
9.1200	-7.0000	-.2488	1
8.0400	-7.0000	-.4430	1
6.9600	-7.0000	-.6169	1
5.8800	-7.0000	-.7232	1
4.3200	-7.0000	-.7727	1
2.8800	-7.0000	-.7345	1
1.9200	-7.0000	-.6575	1
1.2000	-7.0000	-.5610	1
.7200	-7.0000	-.4640	1
.3600	-7.0000	-.3514	1
.1200	-7.0000	-.2129	1
0.0000	-7.0000	0.0000	1
.1200	-7.0000	.2354	1
.3600	-7.0000	.3752	1
.7200	-7.0000	.4789	1
1.2000	-7.0000	.5620	1
1.9200	-7.0000	.6422	1
2.8800	-7.0000	.7066	1
4.3200	-7.0000	.7408	1
5.8800	-7.0000	.7145	1
6.9600	-7.0000	.6613	1
8.0400	-7.0000	.5782	1
9.1200	-7.0000	.4620	1
10.2000	-7.0000	.3064	1
10.8000	-7.0000	.2018	1
11.2800	-7.0000	.1080	1
11.7600	-7.0000	.0035	1
12.2400	-7.0000	-.1544	1
12.7200	-7.0000	-.2953	1
13.4400	-7.0000	-.3898	1
14.8800	-7.0000	-.5273	1
17.7600	-7.0000	-.6958	1
23.5200	-7.0000	-.8816	1
12.2400	-8.6250	-.1544	11

11.7600	-8.6250	-.1067	1
11.2800	-8.6250	-.0574	1
10.8000	-8.6250	-.0523	1
10.2000	-8.6250	-.0936	1
9.1200	-8.6250	-.2488	1
8.0400	-8.6250	-.4430	1
6.9600	-8.6250	-.6169	1
5.8800	-8.6250	-.7232	1
4.3200	-8.6250	-.7727	1
2.8800	-8.6250	-.7345	1
1.9200	-8.6250	-.6575	1
1.2000	-8.6250	-.5610	1
.7200	-8.6250	-.4640	1
.3600	-8.6250	-.3514	1
.1200	-8.6250	-.2129	1
0.0000	-8.6250	0.0000	1
.1200	-8.6250	.2354	1
.3600	-8.6250	.3752	1
.7200	-8.6250	.4789	1
1.2000	-8.6250	.5620	1
1.9200	-8.6250	.6422	1
2.8800	-8.6250	.7066	1
4.3200	-8.6250	.7408	1
5.8800	-8.6250	.7145	1
6.9600	-8.6250	.6613	1
8.0400	-8.6250	.5782	1
9.1200	-8.6250	.4620	1
10.2000	-8.6250	.3064	1
10.8000	-8.6250	.2018	1
11.2800	-8.6250	.1080	1
11.7600	-8.6250	.0035	1
12.2400	-8.6250	-.1544	1
12.7200	-8.6250	-.2953	1
13.4400	-8.6250	-.3898	1
14.8800	-8.6250	-.5273	1
17.7600	-8.6250	-.6958	1
23.5200	-8.6250	-.8816	1
12.2400	-16.3750	-.154411	
11.7600	-16.3750	-.1067	1
11.2800	-16.3750	-.0574	1
10.8000	-16.3750	-.0523	1
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14	.5400E+00	.1819E+02	-.4077E+00	-.2985E+000.	-.9544E+00	.1367E+01
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16	.6000E-01	.1819E+02	-.1065E+00	-.8711E+000.	-.4910E+00	.8859E+00
17	.6000E-01	.1819E+02	.1177E+00	-.8909E+000.	.4542E+00	.9578E+00
18	.2400E+00	.1819E+02	.3053E+00	-.5033E+000.	.8641E+00	.1007E+01
19	.5400E+00	.1819E+02	.4271E+00	-.2768E+000.	.9609E+00	.1358E+01
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21	.1560E+01	.1819E+02	.6021E+00	-.1107E+000.	.9939E+00	.2626E+01
22	.2400E+01	.1819E+02	.6744E+00	-.6693E-010.	.9978E+00	.3488E+01
23	.3600E+01	.1819E+02	.7237E+00	-.2374E-010.	.9997E+00	.5221E+01
24	.5100E+01	.1819E+02	.7277E+00	.1686E-010.	.9999E+00	.5656E+01
25	.6420E+01	.1819E+02	.6879E+00	.4920E-010.	.9988E+00	.3920E+01
26	.7500E+01	.1819E+02	.6198E+00	.7672E-010.	.9971E+00	.3927E+01
27	.8580E+01	.1819E+02	.5201E+00	.1070E+000.	.9943E+00	.3938E+01
28	.9660E+01	.1819E+02	.3842E+00	.1426E+000.	.9898E+00	.3955E+01
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30	.1104E+02	.1819E+02	.1549E+00	.1918E+000.	.9814E+00	.1773E+01
31	.1152E+02	.1819E+02	.5575E-01	.2127E+000.	.9771E+00	.1781E+01
32	.1200E+02	.1819E+02	-.7545E-01	.3125E+000.	.9499E+00	.1832E+01
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2	.1152E+02	.1250E+02	-.8205E-01	-.1022E+000.	-.9948E+00	.3740E+01
3	.1104E+02	.1250E+02	-.5485E-01	-.1062E-010.	-.9999E+00	.3720E+01
4	.1050E+02	.1250E+02	-.7295E-01	.6867E-010.	-.9976E+00	.4661E+01
5	.9660E+01	.1250E+02	.1712E+00	.1422E+000.	-.9898E+00	.8456E+01
6	.8580E+01	.1250E+02	.3459E+00	.1770E+000.	-.9842E+00	.8504E+01
7	.7500E+01	.1250E+02	.5300E+00	.1590E+000.	-.9873E+00	.8478E+01
8	.6420E+01	.1250E+02	-.6701E+00	.9795E-010.	-.9952E+00	.8410E+01
9	.5100E+01	.1250E+02	-.7480E+00	.3171E-010.	-.9995E+00	.1210E+02
10	.3600E+01	.1250E+02	-.7536E+00	-.2652E-010.	-.9996E+00	.1116E+02
11	.2400E+01	.1250E+02	-.6960E+00	-.7995E-010.	-.9968E+00	.7464E+01
12	.1560E+01	.1250E+02	-.6093E+00	-.1328E+000.	-.9911E+00	.5630E+01
13	.9600E+00	.1250E+02	-.5125E+00	-.1981E+000.	-.9802E+00	.3795E+01
14	.5400E+00	.1250E+02	-.4077E+00	-.2985E+000.	-.9544E+00	.2923E+01
15	.2400E+00	.1250E+02	-.2822E+00	-.4998E+000.	-.8661E+00	.2147E+01
16	.6000E-01	.1250E+02	-.1065E+00	-.8711E+000.	-.4910E+00	.1894E+01
17	.6000E-01	.1250E+02	.1177E+00	-.8909E+000.	.4542E+00	.2048E+01
18	.2400E+00	.1250E+02	.3053E+00	-.5033E+000.	.8641E+00	.2153E+01
19	.5400E+00	.1250E+02	.4271E+00	-.2768E+000.	.9609E+00	.2903E+01
20	.9600E+00	.1250E+02	.5205E+00	-.1706E+000.	.9853E+00	.3775E+01
21	.1560E+01	.1250E+02	.6021E+00	-.1107E+000.	.9939E+00	.5615E+01
22	.2400E+01	.1250E+02	.6744E+00	-.6693E-010.	.9978E+00	.7457E+01
23	.3600E+01	.1250E+02	.7237E+00	-.2374E-010.	.9997E+00	.1116E+02
24	.5100E+01	.1250E+02	.7277E+00	.1686E-010.	.9999E+00	.1209E+02
25	.6420E+01	.1250E+02	.6879E+00	.4920E-010.	.9988E+00	.8380E+01
26	.7500E+01	.1250E+02	.6198E+00	.7672E-010.	.9971E+00	.8395E+01
27	.8580E+01	.1250E+02	.5201E+00	.1070E+000.	.9943E+00	.8418E+01
28	.9660E+01	.1250E+02	.3842E+00	.1426E+000.	.9898E+00	.8456E+01
29	.1050E+02	.1250E+02	.2541E+00	.1717E+000.	.9851E+00	.4720E+01
30	.1104E+02	.1250E+02	.1549E+00	.1918E+000.	.9814E+00	.3790E+01
31	.1152E+02	.1250E+02	.5575E-01	.2127E+000.	.9771E+00	.3807E+01
32	.1200E+02	.1250E+02	-.7545E-01	.3125E+000.	.9499E+00	.3916E+01
1	.1200E+02	.7813E+01	-.1306E+00	-.9889E-010.	-.9951E+00	.7838E+00
2	.1152E+02	.7813E+01	-.8205E-01	-.1022E+000.	-.9948E+00	.7841E+00
3	.1104E+02	.7813E+01	-.5485E-01	-.1062E-010.	-.9999E+00	.7800E+00
4	.1050E+02	.7813E+01	-.7295E-01	.6867E-010.	-.9976E+00	.9773E+00
5	.9660E+01	.7813E+01	.1712E+00	.1422E+000.	-.9898E+00	.1773E+01
6	.8580E+01	.7813E+01	.3459E+00	.1770E+000.	-.9842E+00	.1783E+01
7	.7500E+01	.7813E+01	.5300E+00	.1590E+000.	-.9873E+00	.1778E+01
8	.6420E+01	.7813E+01	-.6701E+00	.9795E-010.	-.9952E+00	.1763E+01
9	.5100E+01	.7813E+01	-.7480E+00	.3171E-010.	-.9995E+00	.2536E+01
10	.3600E+01	.7813E+01	-.7536E+00	-.2652E-010.	-.9996E+00	.2341E+01
11	.2400E+01	.7813E+01	-.6960E+00	-.7995E-010.	-.9968E+00	.1565E+01
12	.1560E+01	.7813E+01	-.6093E+00	-.1328E+000.	-.9911E+00	.1180E+01
13	.9600E+00	.7813E+01	-.5125E+00	-.1981E+000.	-.9802E+00	.7958E+00

14	.5400E+00	.7813E+01-	.4077E+00-	.2985E+000.	-.9544E+00	.6129E+00
15	.2400E+00	.7813E+01-	.2822E+00-	.4998E+000.	-.8661E+00	.4503E+00
16	.6000E-01	.7813E+01-	.1065E+00-	.8711E+000.	-.4910E+00	.3971E+00
17	.6000E-01	.7813E+01	.1177E+00-	.8909E+000.	.4542E+00	.4294E+00
18	.2400E+00	.7813E+01	.3053E+00-	.5033E+000.	.8641E+00	.4513E+00
19	.5400E+00	.7813E+01	.4271E+00-	.2768E+000.	.9609E+00	.6088E+00
20	.9600E+00	.7813E+01	.5205E+00-	.1706E+000.	.9853E+00	.7916E+00
21	.1560E+01	.7813E+01	.6021E+00-	.1107E+000.	.9939E+00	.1177E+01
22	.2400E+01	.7813E+01	.6744E+00-	.6693E-010.	.9978E+00	.1564E+01
23	.3600E+01	.7813E+01	.7237E+00-	.2374E-010.	.9997E+00	.2341E+01
24	.5100E+01	.7813E+01	.7277E+00	.1686E-010.	.9999E+00	.2535E+01
25	.6420E+01	.7813E+01	.6879E+00	.4920E-010.	.9988E+00	.1757E+01
26	.7500E+01	.7813E+01	.6198E+00	.7672E-010.	.9971E+00	.1760E+01
27	.8580E+01	.7813E+01	.5201E+00	.1070E+000.	.9943E+00	.1765E+01
28	.9660E+01	.7813E+01	.3842E+00	.1426E+000.	.9898E+00	.1773E+01
29	.1050E+02	.7813E+01	.2541E+00	.1717E+000.	.9851E+00	.9897E+00
30	.1104E+02	.7813E+01	.1549E+00	.1918E+000.	.9814E+00	.7948E+00
31	.1152E+02	.7813E+01	.5575E-01	.2127E+000.	.9771E+00	.7983E+00
32	.1200E+02	.7813E+01-	.7545E-01	.3125E+000.	.9499E+00	.8211E+00
1	.1200E+02	.6250E+01-	.1306E+00-	.9889E-010.	-.9951E+00	.7235E+00
2	.1152E+02	.6250E+01-	.8205E-01-	.1022E+000.	-.9948E+00	.7238E+00
3	.1104E+02	.6250E+01-	.5485E-01-	.1062E-010.	-.9999E+00	.7200E+00
4	.1050E+02	.6250E+01-	.7295E-01	.6867E-010.	-.9976E+00	.9021E+00
5	.9660E+01	.6250E+01-	.1712E+00	.1422E+000.	-.9898E+00	.1637E+01
6	.8580E+01	.6250E+01-	.3459E+00	.1770E+000.	-.9842E+00	.1646E+01
7	.7500E+01	.6250E+01-	.5300E+00	.1590E+000.	-.9873E+00	.1641E+01
8	.6420E+01	.6250E+01-	.6701E+00	.9795E-010.	-.9952E+00	.1628E+01
9	.5100E+01	.6250E+01-	.7480E+00	.3171E-010.	-.9995E+00	.2341E+01
10	.3600E+01	.6250E+01-	.7536E+00-	.2652E-010.	-.9996E+00	.2161E+01
11	.2400E+01	.6250E+01-	.6960E+00-	.7995E-010.	-.9968E+00	.1445E+01
12	.1560E+01	.6250E+01-	.6093E+00-	.1328E+000.	-.9911E+00	.1090E+01
13	.9600E+00	.6250E+01-	.5125E+00-	.1981E+000.	-.9802E+00	.7346E+00
14	.5400E+00	.6250E+01-	.4077E+00-	.2985E+000.	-.9544E+00	.5658E+00
15	.2400E+00	.6250E+01-	.2822E+00-	.4998E+000.	-.8661E+00	.4156E+00
16	.6000E-01	.6250E+01-	.1065E+00-	.8711E+000.	-.4910E+00	.3666E+00
17	.6000E-01	.6250E+01	.1177E+00-	.8909E+000.	.4542E+00	.3963E+00
18	.2400E+00	.6250E+01	.3053E+00-	.5033E+000.	.8641E+00	.4166E+00
19	.5400E+00	.6250E+01	.4271E+00-	.2768E+000.	.9609E+00	.5620E+00
20	.9600E+00	.6250E+01	.5205E+00-	.1706E+000.	.9853E+00	.7307E+00
21	.1560E+01	.6250E+01	.6021E+00-	.1107E+000.	.9939E+00	.1087E+01
22	.2400E+01	.6250E+01	.6744E+00-	.6693E-010.	.9978E+00	.1443E+01
23	.3600E+01	.6250E+01	.7237E+00-	.2374E-010.	.9997E+00	.2161E+01
24	.5100E+01	.6250E+01	.7277E+00	.1686E-010.	.9999E+00	.2340E+01
25	.6420E+01	.6250E+01	.6879E+00	.4920E-010.	.9988E+00	.1622E+01
26	.7500E+01	.6250E+01	.6198E+00	.7672E-010.	.9971E+00	.1625E+01
27	.8580E+01	.6250E+01	.5201E+00	.1070E+000.	.9943E+00	.1629E+01
28	.9660E+01	.6250E+01	.3842E+00	.1426E+000.	.9898E+00	.1637E+01
29	.1050E+02	.6250E+01	.2541E+00	.1717E+000.	.9851E+00	.9136E+00
30	.1104E+02	.6250E+01	.1549E+00	.1918E+000.	.9814E+00	.7336E+00
31	.1152E+02	.6250E+01	.5575E-01	.2127E+000.	.9771E+00	.7369E+00
32	.1200E+02	.6250E+01-	.7545E-01	.3125E+000.	.9499E+00	.7580E+00
1	.1200E+02	.4375E+01-	.1306E+00-	.9889E-010.	-.9951E+00	.1085E+01
2	.1152E+02	.4375E+01-	.8205E-01-	.1022E+000.	-.9948E+00	.1086E+01
3	.1104E+02	.4375E+01-	.5485E-01-	.1062E-010.	-.9999E+00	.1080E+01
4	.1050E+02	.4375E+01-	.7295E-01	.6867E-010.	-.9976E+00	.1353E+01
5	.9660E+01	.4375E+01-	.1712E+00	.1422E+000.	-.9898E+00	.2455E+01
6	.8580E+01	.4375E+01-	.3459E+00	.1770E+000.	-.9842E+00	.2469E+01
7	.7500E+01	.4375E+01-	.5300E+00	.1590E+000.	-.9873E+00	.2461E+01
8	.6420E+01	.4375E+01-	.6701E+00	.9795E-010.	-.9952E+00	.2442E+01
9	.5100E+01	.4375E+01-	.7480E+00	.3171E-010.	-.9995E+00	.3512E+01
10	.3600E+01	.4375E+01-	.7536E+00-	.2652E-010.	-.9996E+00	.3241E+01
11	.2400E+01	.4375E+01-	.6960E+00-	.7995E-010.	-.9968E+00	.2167E+01
12	.1560E+01	.4375E+01-	.6093E+00-	.1328E+000.	-.9911E+00	.1634E+01
13	.9600E+00	.4375E+01-	.5125E+00-	.1981E+000.	-.9802E+00	.1102E+01
14	.5400E+00	.4375E+01-	.4077E+00-	.2985E+000.	-.9544E+00	.8487E+00
15	.2400E+00	.4375E+01-	.2822E+00-	.4998E+000.	-.8661E+00	.6235E+00

16	.6000E-01	.4375E+01	-.1065E+00	-.8711E+000.	-.4910E+00	.5499E+00
17	.6000E-01	.4375E+01	.1177E+00	-.8909E+000.	.4542E+00	.5945E+00
18	.2400E+00	.4375E+01	.3053E+00	-.5033E+000.	.8641E+00	.6249E+00
19	.5400E+00	.4375E+01	.4271E+00	-.2768E+000.	.9609E+00	.8429E+00
20	.9600E+00	.4375E+01	.5205E+00	-.1706E+000.	.9853E+00	.1096E+01
21	.1560E+01	.4375E+01	.6021E+00	-.1107E+000.	.9939E+00	.1630E+01
22	.2400E+01	.4375E+01	.6744E+00	-.6693E-010.	.9978E+00	.2165E+01
23	.3600E+01	.4375E+01	.7237E+00	-.2374E-010.	.9997E+00	.3241E+01
24	.5100E+01	.4375E+01	.7277E+00	.1686E-010.	.9999E+00	.3510E+01
25	.6420E+01	.4375E+01	.6879E+00	.4920E-010.	.9988E+00	.2433E+01
26	.7500E+01	.4375E+01	.6198E+00	.7672E-010.	.9971E+00	.2437E+01
27	.8580E+01	.4375E+01	.5201E+00	.1070E+000.	.9943E+00	.2444E+01
28	.9660E+01	.4375E+01	.3842E+00	.1426E+000.	.9898E+00	.2455E+01
29	.1050E+02	.4375E+01	.2541E+00	.1717E+000.	.9851E+00	.1370E+01
30	.1104E+02	.4375E+01	.1549E+00	.1918E+000.	.9814E+00	.1100E+01
31	.1152E+02	.4375E+01	.5575E-01	.2127E+000.	.9771E+00	.1105E+01
32	.1200E+02	.4375E+01	-.7545E-01	.3125E+000.	.9499E+00	.1137E+01
1	.1200E+02	.2300E+01	-.1306E+00	-.9889E-010.	-.9951E+00	.9165E+00
2	.1152E+02	.2300E+01	-.8205E-01	-.1022E+000.	-.9948E+00	.9168E+00
3	.1104E+02	.2300E+01	-.5485E-01	-.1062E-010.	-.9999E+00	.9121E+00
4	.1050E+02	.2300E+01	-.7295E-01	.6867E-010.	-.9976E+00	.1143E+01
5	.9660E+01	.2300E+01	-.1712E+00	.1422E+000.	-.9898E+00	.2073E+01
6	.8580E+01	.2300E+01	-.3459E+00	.1770E+000.	-.9842E+00	.2085E+01
7	.7500E+01	.2300E+01	-.5300E+00	.1590E+000.	-.9873E+00	.2078E+01
8	.6420E+01	.2300E+01	-.6701E+00	.9795E-010.	-.9952E+00	.2062E+01
9	.5100E+01	.2300E+01	-.7480E+00	.3171E-010.	-.9995E+00	.2965E+01
10	.3600E+01	.2300E+01	-.7536E+00	-.2652E-010.	-.9996E+00	.2737E+01
11	.2400E+01	.2300E+01	-.6960E+00	-.7995E-010.	-.9968E+00	.1830E+01
12	.1560E+01	.2300E+01	-.6093E+00	-.1328E+000.	-.9911E+00	.1380E+01
13	.9600E+00	.2300E+01	-.5125E+00	-.1981E+000.	-.9802E+00	.9304E+00
14	.5400E+00	.2300E+01	-.4077E+00	-.2985E+000.	-.9544E+00	.7167E+00
15	.2400E+00	.2300E+01	-.2822E+00	-.4998E+000.	-.8661E+00	.5265E+00
16	.6000E-01	.2300E+01	-.1065E+00	-.8711E+000.	-.4910E+00	.4643E+00
17	.6000E-01	.2300E+01	.1177E+00	-.8909E+000.	.4542E+00	.5020E+00
18	.2400E+00	.2300E+01	.3053E+00	-.5033E+000.	.8641E+00	.5277E+00
19	.5400E+00	.2300E+01	.4271E+00	-.2768E+000.	.9609E+00	.7118E+00
20	.9600E+00	.2300E+01	.5205E+00	-.1706E+000.	.9853E+00	.9256E+00
21	.1560E+01	.2300E+01	.6021E+00	-.1107E+000.	.9939E+00	.1376E+01
22	.2400E+01	.2300E+01	.6744E+00	-.6693E-010.	.9978E+00	.1828E+01
23	.3600E+01	.2300E+01	.7237E+00	-.2374E-010.	.9997E+00	.2737E+01
24	.5100E+01	.2300E+01	.7277E+00	.1686E-010.	.9999E+00	.2964E+01
25	.6420E+01	.2300E+01	.6879E+00	.4920E-010.	.9988E+00	.2054E+01
26	.7500E+01	.2300E+01	.6198E+00	.7672E-010.	.9971E+00	.2058E+01
27	.8580E+01	.2300E+01	.5201E+00	.1070E+000.	.9943E+00	.2064E+01
28	.9660E+01	.2300E+01	.3842E+00	.1426E+000.	.9898E+00	.2073E+01
29	.1050E+02	.2300E+01	.2541E+00	.1717E+000.	.9851E+00	.1157E+01
30	.1104E+02	.2300E+01	.1549E+00	.1918E+000.	.9814E+00	.9293E+00
31	.1152E+02	.2300E+01	.5575E-01	.2127E+000.	.9771E+00	.9334E+00
32	.1200E+02	.2300E+01	-.7545E-01	.3125E+000.	.9499E+00	.9601E+00
1	.1200E+020.		-.1306E+00	-.9889E-010.	-.9951E+00	.1302E+01
2	.1152E+020.		-.8205E-01	-.1022E+000.	-.9948E+00	.1303E+01
3	.1104E+020.		-.5485E-01	-.1062E-010.	-.9999E+00	.1296E+01
4	.1050E+020.		-.7295E-01	.6867E-010.	-.9976E+00	.1624E+01
5	.9660E+010.		-.1712E+00	.1422E+000.	-.9898E+00	.2946E+01
6	.8580E+010.		-.3459E+00	.1770E+000.	-.9842E+00	.2963E+01
7	.7500E+010.		-.5300E+00	.1590E+000.	-.9873E+00	.2954E+01
8	.6420E+010.		-.6701E+00	.9795E-010.	-.9952E+00	.2930E+01
9	.5100E+010.		-.7480E+00	.3171E-010.	-.9995E+00	.4214E+01
10	.3600E+010.		-.7536E+00	-.2652E-010.	-.9996E+00	.3889E+01
11	.2400E+010.		-.6960E+00	-.7995E-010.	-.9968E+00	.2600E+01
12	.1560E+010.		-.6093E+00	-.1328E+000.	-.9911E+00	.1961E+01
13	.9600E+000.		-.5125E+00	-.1981E+000.	-.9802E+00	.1322E+01
14	.5400E+000.		-.4077E+00	-.2985E+000.	-.9544E+00	.1018E+01
15	.2400E+000.		-.2822E+00	-.4998E+000.	-.8661E+00	.7482E+00
16	.6000E-010.		-.1065E+00	-.8711E+000.	-.4910E+00	.6599E+00
17	.6000E-010.		.1177E+00	-.8909E+000.	.4542E+00	.7134E+00

18	.2400E+000.	.3053E+00-	.5033E+000.	.8641E+00	.7499E+00	
19	.5400E+000.	.4271E+00-	.2768E+000.	.9609E+00	.1012E+01	
20	.9600E+000.	.5205E+00-	.1706E+000.	.9853E+00	.1315E+01	
21	.1560E+010.	.6021E+00-	.1107E+000.	.9939E+00	.1956E+01	
22	.2400E+010.	.6744E+00-	.6693E-010.	.9978E+00	.2598E+01	
23	.3600E+010.	.7237E+00-	.2374E-010.	.9997E+00	.3889E+01	
24	.5100E+010.	.7277E+00	.1686E-010.	.9999E+00	.4213E+01	
25	.6420E+010.	.6879E+00	.4920E-010.	.9988E+00	.2920E+01	
26	.7500E+010.	.6198E+00	.7672E-010.	.9971E+00	.2925E+01	
27	.8580E+010.	.5201E+00	.1070E+000.	.9943E+00	.2933E+01	
28	.9660E+010.	.3842E+00	.1426E+000.	.9898E+00	.2946E+01	
29	.1050E+020.	.2541E+00	.1717E+000.	.9851E+00	.1644E+01	
30	.1104E+020.	.1549E+00	.1918E+000.	.9814E+00	.1321E+01	
31	.1152E+020.	.5575E-01	.2127E+000.	.9771E+00	.1326E+01	
32	.1200E+020.	-.7545E-01	.3125E+000.	.9499E+00	.1364E+01	
1	.1200E+02-	.2300E+01-	.1306E+00-	.9889E-010.	-.9951E+00	.9165E+00
2	.1152E+02-	.2300E+01-	.8205E-01-	.1022E+000.	-.9948E+00	.9168E+00
3	.1104E+02-	.2300E+01-	.5485E-01-	.1062E-010.	-.9999E+00	.9121E+00
4	.1050E+02-	.2300E+01-	.7295E-01	.6867E-010.	-.9976E+00	.1143E+01
5	.9660E+01-	.2300E+01-	.1712E+00	.1422E+000.	-.9898E+00	.2073E+01
6	.8580E+01-	.2300E+01-	.3459E+00	.1770E+000.	-.9842E+00	.2085E+01
7	.7500E+01-	.2300E+01-	.5300E+00	.1590E+000.	-.9873E+00	.2078E+01
8	.6420E+01-	.2300E+01-	.6701E+00	.9795E-010.	-.9952E+00	.2062E+01
9	.5100E+01-	.2300E+01-	.7480E+00	.3171E-010.	-.9995E+00	.2965E+01
10	.3600E+01-	.2300E+01-	.7536E+00-	.2652E-010.	-.9996E+00	.2737E+01
11	.2400E+01-	.2300E+01-	.6960E+00-	.7995E-010.	-.9968E+00	.1830E+01
12	.1560E+01-	.2300E+01-	.6093E+00-	.1328E+000.	-.9911E+00	.1380E+01
13	.9600E+00-	.2300E+01-	.5125E+00-	.1981E+000.	-.9802E+00	.9304E+00
14	.5400E+00-	.2300E+01-	.4077E+00-	.2985E+000.	-.9544E+00	.7167E+00
15	.2400E+00-	.2300E+01-	.2822E+00-	.4998E+000.	-.8661E+00	.5265E+00
16	.6000E-01-	.2300E+01-	.1065E+00-	.8711E+000.	-.4910E+00	.4643E+00
17	.6000E-01-	.2300E+01	.1177E+00-	.8909E+000.	.4542E+00	.5020E+00
18	.2400E+00-	.2300E+01	.3053E+00-	.5033E+000.	.8641E+00	.5277E+00
19	.5400E+00-	.2300E+01	.4271E+00-	.2768E+000.	.9609E+00	.7118E+00
20	.9600E+00-	.2300E+01	.5205E+00-	.1706E+000.	.9853E+00	.9256E+00
21	.1560E+01-	.2300E+01	.6021E+00-	.1107E+000.	.9939E+00	.1376E+01
22	.2400E+01-	.2300E+01	.6744E+00-	.6693E-010.	.9978E+00	.1828E+01
23	.3600E+01-	.2300E+01	.7237E+00-	.2374E-010.	.9997E+00	.2737E+01
24	.5100E+01-	.2300E+01	.7277E+00	.1686E-010.	.9999E+00	.2964E+01
25	.6420E+01-	.2300E+01	.6879E+00	.4920E-010.	.9988E+00	.2054E+01
26	.7500E+01-	.2300E+01	.6198E+00	.7672E-010.	.9971E+00	.2058E+01
27	.8580E+01-	.2300E+01	.5201E+00	.1070E+000.	.9943E+00	.2064E+01
28	.9660E+01-	.2300E+01	.3842E+00	.1426E+000.	.9898E+00	.2073E+01
29	.1050E+02-	.2300E+01	.2541E+00	.1717E+000.	.9851E+00	.1157E+01
30	.1104E+02-	.2300E+01	.1549E+00	.1918E+000.	.9814E+00	.9293E+00
31	.1152E+02-	.2300E+01	.5575E-01	.2127E+000.	.9771E+00	.9334E+00
32	.1200E+02-	.2300E+01-	.7545E-01	.3125E+000.	.9499E+00	.9601E+00
1	.1200E+02-	.4375E+01-	.1306E+00-	.9889E-010.	-.9951E+00	.1085E+01
2	.1152E+02-	.4375E+01-	.8205E-01-	.1022E+000.	-.9948E+00	.1086E+01
3	.1104E+02-	.4375E+01-	.5485E-01-	.1062E-010.	-.9999E+00	.1080E+01
4	.1050E+02-	.4375E+01-	.7295E-01	.6867E-010.	-.9976E+00	.1353E+01
5	.9660E+01-	.4375E+01-	.1712E+00	.1422E+000.	-.9898E+00	.2455E+01
6	.8580E+01-	.4375E+01-	.3459E+00	.1770E+000.	-.9842E+00	.2469E+01
7	.7500E+01-	.4375E+01-	.5300E+00	.1590E+000.	-.9873E+00	.2461E+01
8	.6420E+01-	.4375E+01-	.6701E+00	.9795E-010.	-.9952E+00	.2442E+01
9	.5100E+01-	.4375E+01-	.7480E+00	.3171E-010.	-.9995E+00	.3512E+01
10	.3600E+01-	.4375E+01-	.7536E+00-	.2652E-010.	-.9996E+00	.3241E+01
11	.2400E+01-	.4375E+01-	.6960E+00-	.7995E-010.	-.9968E+00	.2167E+01
12	.1560E+01-	.4375E+01-	.6093E+00-	.1328E+000.	-.9911E+00	.1634E+01
13	.9600E+00-	.4375E+01-	.5125E+00-	.1981E+000.	-.9802E+00	.1102E+01
14	.5400E+00-	.4375E+01-	.4077E+00-	.2985E+000.	-.9544E+00	.8487E+00
15	.2400E+00-	.4375E+01-	.2822E+00-	.4998E+000.	-.8661E+00	.6235E+00
16	.6000E-01-	.4375E+01-	.1065E+00-	.8711E+000.	-.4910E+00	.5499E+00
17	.6000E-01-	.4375E+01	.1177E+00-	.8909E+000.	.4542E+00	.5945E+00
18	.2400E+00-	.4375E+01	.3053E+00-	.5033E+000.	.8641E+00	.6249E+00
19	.5400E+00-	.4375E+01	.4271E+00-	.2768E+000.	.9609E+00	.8429E+00

20	.9600E+00-	.4375E+01	.5205E+00-	.1706E+000.	.9853E+00	.1096E+01
21	.1560E+01-	.4375E+01	.6021E+00-	.1107E+000.	.9939E+00	.1630E+01
22	.2400E+01-	.4375E+01	.6744E+00-	.6693E-010.	.9978E+00	.2165E+01
23	.3600E+01-	.4375E+01	.7237E+00-	.2374E-010.	.9997E+00	.3241E+01
24	.5100E+01-	.4375E+01	.7277E+00	.1686E-010.	.9999E+00	.3510E+01
25	.6420E+01-	.4375E+01	.6879E+00	.4920E-010.	.9988E+00	.2433E+01
26	.7500E+01-	.4375E+01	.6198E+00	.7672E-010.	.9971E+00	.2437E+01
27	.8580E+01-	.4375E+01	.5201E+00	.1070E+000.	.9943E+00	.2444E+01
28	.9660E+01-	.4375E+01	.3842E+00	.1426E+000.	.9898E+00	.2455E+01
29	.1050E+02-	.4375E+01	.2541E+00	.1717E+000.	.9851E+00	.1370E+01
30	.1104E+02-	.4375E+01	.1549E+00	.1918E+000.	.9814E+00	.1100E+01
31	.1152E+02-	.4375E+01	.5575E-01	.2127E+000.	.9771E+00	.1105E+01
32	.1200E+02-	.4375E+01-	.7545E-01	.3125E+000.	.9499E+00	.1137E+01
1	.1200E+02-	.6250E+01-	.1306E+00-	.9889E-010.	-.9951E+00	.7235E+00
2	.1152E+02-	.6250E+01-	.8205E-01-	.1022E+000.	-.9948E+00	.7238E+00
3	.1104E+02-	.6250E+01-	.5485E-01-	.1062E-010.	-.9999E+00	.7200E+00
4	.1050E+02-	.6250E+01-	.7295E-01	.6867E-010.	-.9976E+00	.9021E+00
5	.9660E+01-	.6250E+01-	.1712E+00	.1422E+000.	-.9898E+00	.1637E+01
6	.8580E+01-	.6250E+01-	.3459E+00	.1770E+000.	-.9842E+00	.1646E+01
7	.7500E+01-	.6250E+01-	.5300E+00	.1590E+000.	-.9873E+00	.1641E+01
8	.6420E+01-	.6250E+01-	.6701E+00	.9795E-010.	-.9952E+00	.1628E+01
9	.5100E+01-	.6250E+01-	.7480E+00	.3171E-010.	-.9995E+00	.2341E+01
10	.3600E+01-	.6250E+01-	.7536E+00-	.2652E-010.	-.9996E+00	.2161E+01
11	.2400E+01-	.6250E+01-	.6960E+00-	.7995E-010.	-.9968E+00	.1445E+01
12	.1560E+01-	.6250E+01-	.6093E+00-	.1328E+000.	-.9911E+00	.1090E+01
13	.9600E+00-	.6250E+01-	.5125E+00-	.1981E+000.	-.9802E+00	.7346E+00
14	.5400E+00-	.6250E+01-	.4077E+00-	.2985E+000.	-.9544E+00	.5658E+00
15	.2400E+00-	.6250E+01-	.2822E+00-	.4998E+000.	-.8661E+00	.4156E+00
16	.6000E-01-	.6250E+01-	.1065E+00-	.8711E+000.	-.4910E+00	.3666E+00
17	.6000E-01-	.6250E+01	.1177E+00-	.8909E+000.	.4542E+00	.3963E+00
18	.2400E+00-	.6250E+01	.3053E+00-	.5033E+000.	.8641E+00	.4166E+00
19	.5400E+00-	.6250E+01	.4271E+00-	.2768E+000.	.9609E+00	.5620E+00
20	.9600E+00-	.6250E+01	.5205E+00-	.1706E+000.	.9853E+00	.7307E+00
21	.1560E+01-	.6250E+01	.6021E+00-	.1107E+000.	.9939E+00	.1087E+01
22	.2400E+01-	.6250E+01	.6744E+00-	.6693E-010.	.9978E+00	.1443E+01
23	.3600E+01-	.6250E+01	.7237E+00-	.2374E-010.	.9997E+00	.2161E+01
24	.5100E+01-	.6250E+01	.7277E+00	.1686E-010.	.9999E+00	.2340E+01
25	.6420E+01-	.6250E+01	.6879E+00	.4920E-010.	.9988E+00	.1622E+01
26	.7500E+01-	.6250E+01	.6198E+00	.7672E-010.	.9971E+00	.1625E+01
27	.8580E+01-	.6250E+01	.5201E+00	.1070E+000.	.9943E+00	.1629E+01
28	.9660E+01-	.6250E+01	.3842E+00	.1426E+000.	.9898E+00	.1637E+01
29	.1050E+02-	.6250E+01	.2541E+00	.1717E+000.	.9851E+00	.9136E+00
30	.1104E+02-	.6250E+01	.1549E+00	.1918E+000.	.9814E+00	.7336E+00
31	.1152E+02-	.6250E+01	.5575E-01	.2127E+000.	.9771E+00	.7369E+00
32	.1200E+02-	.6250E+01-	.7545E-01	.3125E+000.	.9499E+00	.7580E+00
1	.1200E+02-	.7813E+01-	.1306E+00-	.9889E-010.	-.9951E+00	.7838E+00
2	.1152E+02-	.7813E+01-	.8205E-01-	.1022E+000.	-.9948E+00	.7841E+00
3	.1104E+02-	.7813E+01-	.5485E-01-	.1062E-010.	-.9999E+00	.7800E+00
4	.1050E+02-	.7813E+01-	.7295E-01	.6867E-010.	-.9976E+00	.9773E+00
5	.9660E+01-	.7813E+01-	.1712E+00	.1422E+000.	-.9898E+00	.1773E+01
6	.8580E+01-	.7813E+01-	.3459E+00	.1770E+000.	-.9842E+00	.1783E+01
7	.7500E+01-	.7813E+01-	.5300E+00	.1590E+000.	-.9873E+00	.1778E+01
8	.6420E+01-	.7813E+01-	.6701E+00	.9795E-010.	-.9952E+00	.1763E+01
9	.5100E+01-	.7813E+01-	.7480E+00	.3171E-010.	-.9995E+00	.2536E+01
10	.3600E+01-	.7813E+01-	.7536E+00-	.2652E-010.	-.9996E+00	.2341E+01
11	.2400E+01-	.7813E+01-	.6960E+00-	.7995E-010.	-.9968E+00	.1565E+01
12	.1560E+01-	.7813E+01-	.6093E+00-	.1328E+000.	-.9911E+00	.1180E+01
13	.9600E+00-	.7813E+01-	.5125E+00-	.1981E+000.	-.9802E+00	.7958E+00
14	.5400E+00-	.7813E+01-	.4077E+00-	.2985E+000.	-.9544E+00	.6129E+00
15	.2400E+00-	.7813E+01-	.2822E+00-	.4998E+000.	-.8661E+00	.4503E+00
16	.6000E-01-	.7813E+01-	.1065E+00-	.8711E+000.	-.4910E+00	.3971E+00
17	.6000E-01-	.7813E+01	.1177E+00-	.8909E+000.	.4542E+00	.4294E+00
18	.2400E+00-	.7813E+01	.3053E+00-	.5033E+000.	.8641E+00	.4513E+00
19	.5400E+00-	.7813E+01	.4271E+00-	.2768E+000.	.9609E+00	.6088E+00
20	.9600E+00-	.7813E+01	.5205E+00-	.1706E+000.	.9853E+00	.7916E+00
21	.1560E+01-	.7813E+01	.6021E+00-	.1107E+000.	.9939E+00	.1177E+01

22	.2400E+01-.7813E+01	.6744E+00-.6693E-010.	.9978E+00	.1564E+01
23	.3600E+01-.7813E+01	.7237E+00-.2374E-010.	.9997E+00	.2341E+01
24	.5100E+01-.7813E+01	.7277E+00 .1686E-010.	.9999E+00	.2535E+01
25	.6420E+01-.7813E+01	.6879E+00 .4920E-010.	.9988E+00	.1757E+01
26	.7500E+01-.7813E+01	.6198E+00 .7672E-010.	.9971E+00	.1760E+01
27	.8580E+01-.7813E+01	.5201E+00 .1070E+000.	.9943E+00	.1765E+01
28	.9660E+01-.7813E+01	.3842E+00 .1426E+000.	.9898E+00	.1773E+01
29	.1050E+02-.7813E+01	.2541E+00 .1717E+000.	.9851E+00	.9897E+00
30	.1104E+02-.7813E+01	.1549E+00 .1918E+000.	.9814E+00	.7948E+00
31	.1152E+02-.7813E+01	.5575E-01 .2127E+000.	.9771E+00	.7983E+00
32	.1200E+02-.7813E+01-	.7545E-01 .3125E+000.	.9499E+00	.8211E+00
1	.1200E+02-.1250E+02-	.1306E+00-.9889E-010.	-.9951E+00	.3738E+01
2	.1152E+02-.1250E+02-	.8205E-01-.1022E+000.	-.9948E+00	.3740E+01
3	.1104E+02-.1250E+02-	.5485E-01-.1062E-010.	-.9999E+00	.3720E+01
4	.1050E+02-.1250E+02-	.7295E-01 .6867E-010.	-.9976E+00	.4661E+01
5	.9660E+01-.1250E+02-	.1712E+00 .1422E+000.	-.9898E+00	.8456E+01
6	.8580E+01-.1250E+02-	.3459E+00 .1770E+000.	-.9842E+00	.8504E+01
7	.7500E+01-.1250E+02-	.5300E+00 .1590E+000.	-.9873E+00	.8478E+01
8	.6420E+01-.1250E+02-	.6701E+00 .9795E-010.	-.9952E+00	.8410E+01
9	.5100E+01-.1250E+02-	.7480E+00 .3171E-010.	-.9995E+00	.1210E+02
10	.3600E+01-.1250E+02-	.7536E+00-.2652E-010.	-.9996E+00	.1116E+02
11	.2400E+01-.1250E+02-	.6960E+00-.7995E-010.	-.9968E+00	.7464E+01
12	.1560E+01-.1250E+02-	.6093E+00-.1328E+000.	-.9911E+00	.5630E+01
13	.9600E+00-.1250E+02-	.5125E+00-.1981E+000.	-.9802E+00	.3795E+01
14	.5400E+00-.1250E+02-	.4077E+00-.2985E+000.	-.9544E+00	.2923E+01
15	.2400E+00-.1250E+02-	.2822E+00-.4998E+000.	-.8661E+00	.2147E+01
16	.6000E-01-.1250E+02-	.1065E+00-.8711E+000.	-.4910E+00	.1894E+01
17	.6000E-01-.1250E+02	.1177E+00-.8909E+000.	.4542E+00	.2048E+01
18	.2400E+00-.1250E+02	.3053E+00-.5033E+000.	.8641E+00	.2153E+01
19	.5400E+00-.1250E+02	.4271E+00-.2768E+000.	.9609E+00	.2903E+01
20	.9600E+00-.1250E+02	.5205E+00-.1706E+000.	.9853E+00	.3775E+01
21	.1560E+01-.1250E+02	.6021E+00-.1107E+000.	.9939E+00	.5615E+01
22	.2400E+01-.1250E+02	.6744E+00-.6693E-010.	.9978E+00	.7457E+01
23	.3600E+01-.1250E+02	.7237E+00-.2374E-010.	.9997E+00	.1116E+02
24	.5100E+01-.1250E+02	.7277E+00 .1686E-010.	.9999E+00	.1209E+02
25	.6420E+01-.1250E+02	.6879E+00 .4920E-010.	.9988E+00	.8380E+01
26	.7500E+01-.1250E+02	.6198E+00 .7672E-010.	.9971E+00	.8395E+01
27	.8580E+01-.1250E+02	.5201E+00 .1070E+000.	.9943E+00	.8418E+01
28	.9660E+01-.1250E+02	.3842E+00 .1426E+000.	.9898E+00	.8456E+01
29	.1050E+02-.1250E+02	.2541E+00 .1717E+000.	.9851E+00	.4720E+01
30	.1104E+02-.1250E+02	.1549E+00 .1918E+000.	.9814E+00	.3790E+01
31	.1152E+02-.1250E+02	.5575E-01 .2127E+000.	.9771E+00	.3807E+01
32	.1200E+02-.1250E+02-	.7545E-01 .3125E+000.	.9499E+00	.3916E+01
1	.1200E+02-.1819E+02-	.1306E+00-.9889E-010.	-.9951E+00	.1749E+01
2	.1152E+02-.1819E+02-	.8205E-01-.1022E+000.	-.9948E+00	.1749E+01
3	.1104E+02-.1819E+02-	.5485E-01-.1062E-010.	-.9999E+00	.1740E+01
4	.1050E+02-.1819E+02-	.7295E-01 .6867E-010.	-.9976E+00	.2180E+01
5	.9660E+01-.1819E+02-	.1712E+00 .1422E+000.	-.9898E+00	.3955E+01
6	.8580E+01-.1819E+02-	.3459E+00 .1770E+000.	-.9842E+00	.3978E+01
7	.7500E+01-.1819E+02-	.5300E+00 .1590E+000.	-.9873E+00	.3965E+01
8	.6420E+01-.1819E+02-	.6701E+00 .9795E-010.	-.9952E+00	.3934E+01
9	.5100E+01-.1819E+02-	.7480E+00 .3171E-010.	-.9995E+00	.5658E+01
10	.3600E+01-.1819E+02-	.7536E+00-.2652E-010.	-.9996E+00	.5222E+01
11	.2400E+01-.1819E+02-	.6960E+00-.7995E-010.	-.9968E+00	.3491E+01
12	.1560E+01-.1819E+02-	.6093E+00-.1328E+000.	-.9911E+00	.2633E+01
13	.9600E+00-.1819E+02-	.5125E+00-.1981E+000.	-.9802E+00	.1775E+01
14	.5400E+00-.1819E+02-	.4077E+00-.2985E+000.	-.9544E+00	.1367E+01
15	.2400E+00-.1819E+02-	.2822E+00-.4998E+000.	-.8661E+00	.1004E+01
16	.6000E-01-.1819E+02-	.1065E+00-.8711E+000.	-.4910E+00	.8859E+00
17	.6000E-01-.1819E+02	.1177E+00-.8909E+000.	.4542E+00	.9578E+00
18	.2400E+00-.1819E+02	.3053E+00-.5033E+000.	.8641E+00	.1007E+01
19	.5400E+00-.1819E+02	.4271E+00-.2768E+000.	.9609E+00	.1358E+01
20	.9600E+00-.1819E+02	.5205E+00-.1706E+000.	.9853E+00	.1766E+01
21	.1560E+01-.1819E+02	.6021E+00-.1107E+000.	.9939E+00	.2626E+01
22	.2400E+01-.1819E+02	.6744E+00-.6693E-010.	.9978E+00	.3488E+01
23	.3600E+01-.1819E+02	.7237E+00-.2374E-010.	.9997E+00	.5221E+01

24	.5100E+01-	.1819E+02	.7277E+00	.1686E-010.	.9999E+00	.5656E+01
25	.6420E+01-	.1819E+02	.6879E+00	.4920E-010.	.9988E+00	.3920E+01
26	.7500E+01-	.1819E+02	.6198E+00	.7672E-010.	.9971E+00	.3927E+01
27	.8580E+01-	.1819E+02	.5201E+00	.1070E+000.	.9943E+00	.3938E+01
28	.9660E+01-	.1819E+02	.3842E+00	.1426E+000.	.9898E+00	.3955E+01
29	.1050E+02-	.1819E+02	.2541E+00	.1717E+000.	.9851E+00	.2208E+01
30	.1104E+02-	.1819E+02	.1549E+00	.1918E+000.	.9814E+00	.1773E+01
31	.1152E+02-	.1819E+02	.5575E-01	.2127E+000.	.9771E+00	.1781E+01
32	.1200E+02-	.1819E+02-	.7545E-01	.3125E+000.	.9499E+00	.1832E+01
1-	.1358E+02-	.6633E-01	.1317E+01-	.8244E+00-	.2166E+00-	.5230E+00
2-	.1358E+02-	.1226E+00	.1355E+01-	.8243E+00-	.4003E+00-	.4003E+00
3-	.1358E+02-	.1602E+00	.1411E+01-	.8244E+00-	.5230E+00-	.2166E+00
4-	.1358E+02-	.1734E+00	.1477E+01-	.8244E+00-	.5661E+000.	
5-	.1358E+02-	.1602E+00	.1544E+01-	.8244E+00-	.5230E+00	.2166E+00
6-	.1358E+02-	.1226E+00	.1600E+01-	.8243E+00-	.4003E+00	.4003E+00
7-	.1358E+02-	.6633E-01	.1637E+01-	.8244E+00-	.2166E+00	.5230E+00
8-	.1358E+02-	.5551E-15	.1651E+01-	.8244E+000.		.5661E+00
9-	.1358E+02	.6633E-01	.1637E+01-	.8244E+00	.2166E+00	.5230E+00
10-	.1358E+02	.1226E+00	.1600E+01-	.8243E+00	.4003E+00	.4003E+00
11-	.1358E+02	.1602E+00	.1544E+01-	.8244E+00	.5230E+00	.2166E+00
12-	.1358E+02	.1734E+00	.1477E+01-	.8244E+00	.5661E+000.	
13-	.1358E+02	.1602E+00	.1411E+01-	.8244E+00	.5230E+00-	.2166E+00
14-	.1358E+02	.1226E+00	.1355E+01-	.8243E+00	.4003E+00-	.4003E+00
15-	.1358E+02	.6633E-01	.1317E+01-	.8244E+00	.2166E+00-	.5230E+00
16-	.1358E+02	.2776E-15	.1304E+01-	.8244E+000.		.5661E+00
1-	.1345E+02-	.1208E+00	.1186E+01-	.6365E+00-	.2952E+00-	.7125E+00
2-	.1345E+02-	.2232E+00	.1254E+01-	.6365E+00-	.5454E+00-	.5454E+00
3-	.1345E+02-	.2916E+00	.1357E+01-	.6365E+00-	.7125E+00-	.2952E+00
4-	.1345E+02-	.3157E+00	.1477E+01-	.6364E+00-	.7713E+000.	
5-	.1345E+02-	.2916E+00	.1598E+01-	.6365E+00-	.7125E+00	.2952E+00
6-	.1345E+02-	.2232E+00	.1700E+01-	.6365E+00-	.5454E+00	.5454E+00
7-	.1345E+02-	.1208E+00	.1769E+01-	.6365E+00-	.2952E+00	.7125E+00
8-	.1345E+02	.4302E-15	.1793E+01-	.6364E+000.		.7713E+00
9-	.1345E+02	.1208E+00	.1769E+01-	.6365E+00	.2952E+00	.7125E+00
10-	.1345E+02	.2232E+00	.1700E+01-	.6365E+00	.5454E+00	.5454E+00
11-	.1345E+02	.2916E+00	.1598E+01-	.6365E+00	.7125E+00	.2952E+00
12-	.1345E+02	.3157E+00	.1477E+01-	.6364E+00	.7713E+000.	
13-	.1345E+02	.2916E+00	.1357E+01-	.6365E+00	.7125E+00-	.2952E+00
14-	.1345E+02	.2232E+00	.1254E+01-	.6365E+00	.5454E+00-	.5454E+00
15-	.1345E+02	.1208E+00	.1186E+01-	.6365E+00	.2952E+00-	.7125E+00
16-	.1345E+02-	.1485E-14	.1162E+01-	.6364E+000.		.7713E+00
1-	.1311E+02-	.2051E+00	.9822E+00-	.5196E+00-	.3271E+00-	.7893E+00
2-	.1311E+02-	.3789E+00	.1098E+01-	.5196E+00-	.6042E+00-	.6042E+00
3-	.1311E+02-	.4951E+00	.1272E+01-	.5196E+00-	.7893E+00-	.3271E+00
4-	.1311E+02-	.5359E+00	.1477E+01-	.5196E+00-	.8544E+000.	
5-	.1311E+02-	.4951E+00	.1682E+01-	.5196E+00-	.7893E+00	.3271E+00
6-	.1311E+02-	.3789E+00	.1856E+01-	.5196E+00-	.6042E+00	.6042E+00
7-	.1311E+02-	.2051E+00	.1972E+01-	.5196E+00-	.3271E+00	.7893E+00
8-	.1311E+02	.2109E-14	.2013E+01-	.5196E+000.		.8544E+00
9-	.1311E+02	.2051E+00	.1972E+01-	.5196E+00	.3271E+00	.7893E+00
10-	.1311E+02	.3789E+00	.1856E+01-	.5196E+00	.6042E+00	.6042E+00
11-	.1311E+02	.4951E+00	.1682E+01-	.5196E+00	.7893E+00	.3271E+00
12-	.1311E+02	.5359E+00	.1477E+01-	.5196E+00	.8544E+000.	
13-	.1311E+02	.4951E+00	.1272E+01-	.5196E+00	.7893E+00-	.3271E+00
14-	.1311E+02	.3789E+00	.1098E+01-	.5196E+00	.6042E+00-	.6042E+00
15-	.1311E+02	.2051E+00	.9822E+00-	.5196E+00	.3271E+00-	.7893E+00
16-	.1311E+02-	.2109E-14	.9414E+00-	.5196E+000.		.8544E+00
1-	.1233E+02-	.3421E+00	.6515E+00-	.3691E+00-	.3558E+00-	.8586E+00
2-	.1233E+02-	.6320E+00	.8453E+00-	.3692E+00-	.6572E+00-	.6572E+00
3-	.1233E+02-	.8258E+00	.1135E+01-	.3691E+00-	.8586E+00-	.3558E+00
4-	.1233E+02-	.8938E+00	.1477E+01-	.3691E+00-	.9294E+000.	
5-	.1233E+02-	.8258E+00	.1819E+01-	.3691E+00-	.8586E+00	.3558E+00
6-	.1233E+02-	.6320E+00	.2109E+01-	.3692E+00-	.6572E+00	.6572E+00
7-	.1233E+02-	.3421E+00	.2303E+01-	.3691E+00-	.3558E+00	.8586E+00
8-	.1233E+02	.2720E-14	.2371E+01-	.3691E+000.		.9294E+00
9-	.1233E+02	.3421E+00	.2303E+01-	.3691E+00	.3558E+00	.8586E+00

10-.1233E+02 .6320E+00 .2109E+01-.3692E+00 .6572E+00 .6572E+00 .3835E+00
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12-.1233E+02 .8938E+00 .1477E+01-.3691E+00 .9294E+000. .3836E+00
13-.1233E+02 .8258E+00 .1135E+01-.3691E+00 .8586E+00-.3558E+00 .3836E+00
14-.1233E+02 .6320E+00 .8453E+00-.3692E+00 .6572E+00-.6572E+00 .3835E+00
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16-.1233E+02 .2831E-14 .5835E+00-.3691E+000. -.9294E+00 .3836E+00
1-.1133E+02-.4672E+00 .3493E+00-.2560E+00-.3700E+00-.8931E+00 .5107E+00
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4-.1133E+02-.1221E+01 .1477E+01-.2560E+00-.9667E+000. .5106E+00
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1-.1042E+02-.5391E+00 .1756E+00-.1343E+00-.3792E+00-.9155E+00 .4760E+00
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4-.1042E+02-.1409E+01 .1477E+01-.1343E+00-.9909E+000. .4759E+00
5-.1042E+02-.1302E+01 .2016E+01-.1343E+00-.9155E+00 .3792E+00 .4760E+00
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16-.1042E+02 .5000E-04 .6838E-01-.1343E+000. -.9909E+00 .4759E+00
1-.9404E+01-.6417E+00-.7182E-01-.3339E+00-.3607E+00-.8709E+00 .8085E+00
2-.9404E+01-.1186E+01 .2916E+00-.3339E+00-.6665E+00-.6665E+00 .8084E+00
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4-.9404E+01-.1677E+01 .1477E+01-.3339E+00-.9426E+000. .8084E+00
5-.9404E+01-.1549E+01 .2119E+01-.3339E+00-.8709E+00 .3607E+00 .8085E+00
6-.9404E+01-.1186E+01 .2663E+01-.3339E+00-.6665E+00 .6665E+00 .8084E+00
7-.9404E+01-.6417E+00 .3026E+01-.3339E+00-.3607E+00 .8709E+00 .8084E+00
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9-.9404E+01 .6417E+00 .3026E+01-.3339E+00 .3607E+00 .8709E+00 .8085E+00
10-.9404E+01 .1186E+01 .2663E+01-.3339E+00 .6665E+00 .6665E+00 .8084E+00
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4-.8356E+01-.2000E+01 .1477E+01-.2495E+00-.9684E+000. .7991E+00
5-.8356E+01-.1848E+01 .2243E+01-.2494E+00-.8947E+00 .3705E+00 .7992E+00
6-.8356E+01-.1414E+01 .2891E+01-.2494E+00-.6848E+00 .6848E+00 .7992E+00
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8-.8356E+01 .5496E-14 .3477E+01-.2495E+000. .9684E+00 .7991E+00
9-.8356E+01 .7653E+00 .3325E+01-.2494E+00 .3705E+00 .8947E+00 .7992E+00
10-.8356E+01 .1414E+01 .2891E+01-.2494E+00 .6848E+00 .6848E+00 .7992E+00
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12-.8356E+01 .2000E+01 .1477E+01-.2495E+00 .9684E+000. .7992E+00
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16-.8356E+01 .2552E-04-.5226E+00-.2495E+000. -.9684E+00 .7992E+00
1-.7376E+01-.8285E+00-.5229E+00-.8375E-01-.3813E+00-.9206E+00 .8642E+00
2-.7376E+01-.1531E+01-.5359E-01-.8371E-01-.7046E+00-.7046E+00 .8643E+00
3-.7376E+01-.2000E+01 .6488E+00-.8377E-01-.9206E+00-.3813E+00 .8642E+00
4-.7376E+01-.2165E+01 .1477E+01-.8380E-01-.9965E+000. .8642E+00
5-.7376E+01-.2000E+01 .2306E+01-.8375E-01-.9206E+00 .3813E+00 .8642E+00
6-.7376E+01-.1531E+01 .3008E+01-.8371E-01-.7046E+00 .7046E+00 .8643E+00
7-.7376E+01-.8285E+00 .3478E+01-.8377E-01-.3813E+00 .9206E+00 .8642E+00
8-.7376E+01-.2516E-04 .3642E+01-.8380E-010. .9965E+00 .8642E+00
9-.7376E+01 .8285E+00 .3478E+01-.8375E-01 .3813E+00 .9206E+00 .8642E+00
10-.7376E+01 .1531E+01 .3008E+01-.8371E-01 .7046E+00 .7046E+00 .8643E+00
11-.7376E+01 .2000E+01 .2306E+01-.8375E-01 .9206E+00 .3814E+00 .8641E+00
12-.7376E+01 .2165E+01 .1477E+01-.8380E-01 .9965E+000. .8642E+00
13-.7376E+01 .2000E+01 .6488E+00-.8375E-01 .9206E+00-.3813E+00 .8642E+00
14-.7376E+01 .1531E+01-.5359E-01-.8371E-01 .7046E+00-.7046E+00 .8643E+00
15-.7376E+01 .8285E+00-.5229E+00-.8375E-01 .3814E+00-.9206E+00 .8641E+00
16-.7376E+01 .5000E-04-.6877E+00-.8380E-010. -.9965E+00 .8642E+00
1-.5879E+01-.8444E+00-.5615E+000. -.3827E+00-.9239E+00 .1756E+01
2-.5879E+01-.1560E+01-.8310E-010. -.7071E+00-.7071E+00 .1756E+01
3-.5879E+01-.2039E+01 .6328E+000. .9239E+00-.3828E+00 .1756E+01
4-.5879E+01-.2207E+01 .1477E+010. -.1000E+010. .1756E+01
5-.5879E+01-.2039E+01 .2322E+010. -.9239E+00 .3827E+00 .1756E+01
6-.5879E+01-.1560E+01 .3038E+010. -.7071E+00 .7071E+00 .1756E+01
7-.5879E+01-.8444E+00 .3516E+010. -.3828E+00 .9239E+00 .1756E+01
8-.5879E+01-.5000E-04 .3684E+010. 0. .1000E+01 .1756E+01
9-.5879E+01 .8444E+00 .3516E+010. .3827E+00 .9239E+00 .1756E+01
10-.5879E+01 .1560E+01 .3038E+010. .7071E+00 .7071E+00 .1756E+01
11-.5879E+01 .2039E+01 .2322E+010. .9239E+00 .3828E+00 .1756E+01
12-.5879E+01 .2207E+01 .1477E+010. .1000E+010. .1756E+01
13-.5879E+01 .2039E+01 .6329E+000. .9239E+00-.3827E+00 .1756E+01
14-.5879E+01 .1560E+01-.8310E-010. .7071E+00-.7071E+00 .1756E+01
15-.5879E+01 .8444E+00-.5615E+000. .3828E+00-.9239E+00 .1756E+01
16-.5879E+01 .5000E-04-.7295E+000. 0. -.1000E+01 .1756E+01
1-.4088E+01-.8520E+00-.5738E+00-.1795E-01-.3596E+00-.9329E+00 .1396E+01
2-.4085E+01-.1587E+01-.1065E+00-.4418E-01-.6908E+00-.7217E+00 .1410E+01
3-.4086E+01-.2066E+01 .6183E+00-.3889E-01-.9346E+00-.3535E+00 .1407E+01
4-.4089E+01-.2214E+01 .1475E+01-.8425E-02-.9997E+00 .2327E-01 .1391E+01
5-.4090E+01-.2036E+01 .2320E+01 .4445E-02-.9239E+00 .3827E+00 .1384E+01
6-.4090E+01-.1558E+01 .3035E+01 .4433E-02-.7071E+00 .7071E+00 .1384E+01
7-.4090E+01-.8432E+00 .3513E+01 .4475E-02-.3827E+00 .9239E+00 .1384E+01
8-.4090E+01-.2501E-04 .3681E+01 .4496E-020. .1000E+01 .1384E+01
9-.4090E+01 .8431E+00 .3513E+01 .4445E-02 .3827E+00 .9239E+00 .1384E+01
10-.4090E+01 .1558E+01 .3035E+01 .4433E-02 .7071E+00 .7071E+00 .1384E+01
11-.4090E+01 .2036E+01 .2320E+01 .4475E-02 .9239E+00 .3827E+00 .1384E+01
12-.4089E+01 .2214E+01 .1475E+01-.8423E-02 .9997E+00 .2327E-01 .1391E+01
13-.4086E+01 .2066E+01 .6183E+00-.3890E-01 .9346E+00-.3535E+00 .1407E+01
14-.4085E+01 .1587E+01-.1065E+00-.4418E-01 .6908E+00-.7217E+00 .1410E+01
15-.4088E+01 .8520E+00-.5738E+00-.1794E-01 .3596E+00-.9329E+00 .1396E+01
16-.4089E+01 .5000E-04-.7328E+00-.4116E-020. -.1000E+01 .1388E+01
1-.2648E+01-.8689E+00-.6015E+00-.2697E-01-.3075E+00-.9512E+00 .1169E+01
2-.2646E+01-.1646E+01-.1592E+00-.6699E-01-.6557E+00-.7521E+00 .1206E+01
3-.2646E+01-.2111E+01 .5892E+00-.3150E-01-.9667E+00-.2542E+00 .1196E+01
4-.2651E+01-.2207E+01 .1473E+01 .2025E-01-.9987E+00 .4749E-01 .1143E+01
5-.2651E+01-.2020E+01 .2314E+01 .2089E-01-.9237E+00 .3826E+00 .1131E+01
6-.2651E+01-.1546E+01 .3023E+01 .2088E-01-.7070E+00 .7070E+00 .1131E+01
7-.2651E+01-.8367E+00 .3497E+01 .2086E-01-.3826E+00 .9237E+00 .1131E+01
8-.2651E+01-.2495E-04 .3663E+01 .2084E-010. .9998E+00 .1131E+01
9-.2651E+01 .8366E+00 .3497E+01 .2089E-01 .3826E+00 .9237E+00 .1131E+01
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11-.2651E+01 .2020E+01 .2314E+01 .2086E-01 .9237E+00 .3826E+00 .1131E+01
12-.2651E+01 .2207E+01 .1473E+01 .2025E-01 .9987E+00 .4749E-01 .1143E+01
13-.2646E+01 .2111E+01 .5892E+00-.3150E-01 .9667E+00-.2542E+00 .1196E+01

14-.2646E+01 .1646E+01-.1592E+00-.6702E-01 .6557E+00-.7520E+00 .1206E+01
15-.2648E+01 .8690E+00-.6015E+00-.2698E-01 .3075E+00-.9512E+00 .1169E+01
16-.2650E+01 .2499E-04-.7398E+00-.5846E-020. -.1000E+01 .1147E+01
1-.1498E+01-.8863E+00-.6298E+00-.2903E-01-.2543E+00-.9667E+00 .9182E+00
2-.1497E+01-.1704E+01-.2120E+00-.6838E-01-.6260E+00-.7768E+00 .9622E+00
3-.1496E+01-.2137E+01 .5645E+00-.2041E-01-.9919E+00-.1252E+00 .9587E+00
4-.1501E+01-.2176E+01 .1473E+01 .3513E-01-.9982E+00 .4866E-01 .8673E+00
5-.1501E+01-.1991E+01 .2302E+01 .3484E-01-.9233E+00 .3824E+00 .8579E+00
6-.1501E+01-.1524E+01 .3001E+01 .3484E-01-.7067E+00 .7067E+00 .8579E+00
7-.1501E+01-.8248E+00 .3468E+01 .3486E-01-.3825E+00 .9233E+00 .8579E+00
8-.1501E+01-.2507E-04 .3632E+01 .3488E-010. .9994E+00 .8579E+00
9-.1501E+01 .8247E+00 .3468E+01 .3484E-01 .3824E+00 .9233E+00 .8579E+00
10-.1501E+01 .1524E+01 .3001E+01 .3484E-01 .7067E+00 .7067E+00 .8579E+00
11-.1501E+01 .1991E+01 .2302E+01 .3486E-01 .9233E+00 .3825E+00 .8579E+00
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13-.1496E+01 .2137E+01 .5645E+00-.2040E-01 .9919E+00-.1252E+00 .9587E+00
14-.1497E+01 .1704E+01-.2119E+00-.6831E-01 .6261E+00-.7767E+00 .9622E+00
15-.1498E+01 .8863E+00-.6298E+00-.2903E-01 .2543E+00-.9667E+00 .9182E+00
16-.1500E+01 .2501E-04-.7466E+00-.5900E-020. -.1000E+01 .8848E+00
1-.7495E+00-.8986E+00-.6498E+00-.3151E-01-.2169E+00-.9757E+00 .4666E+00
2-.7495E+00-.1740E+01-.2461E+00-.6016E-01-.6156E+00-.7858E+00 .4916E+00
3-.7492E+00-.2147E+01 .5512E+00-.4450E-02-.9991E+00-.4256E-01 .4952E+00
4-.7504E+00-.2148E+01 .1473E+01 .4419E-01-.9978E+00 .4864E-01 .4281E+00
5-.7504E+00-.1965E+01 .2291E+01 .4377E-01-.9230E+00 .3823E+00 .4234E+00
6-.7504E+00-.1504E+01 .2981E+01 .4380E-01-.7064E+00 .7064E+00 .4235E+00
7-.7504E+00-.8139E+00 .3442E+01 .4377E-01-.3823E+00 .9230E+00 .4234E+00
8-.7504E+00-.2496E-04 .3604E+01 .4376E-010. .9990E+00 .4234E+00
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10-.7504E+00 .1504E+01 .2981E+01 .4380E-01 .7064E+00 .7064E+00 .4235E+00
11-.7504E+00 .1965E+01 .2291E+01 .4377E-01 .9230E+00 .3823E+00 .4234E+00
12-.7504E+00 .2148E+01 .1473E+01 .4420E-01 .9978E+00 .4865E-01 .4281E+00
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14-.7495E+00 .1740E+01-.2460E+00-.6024E-01 .6156E+00-.7858E+00 .4916E+00
15-.7495E+00 .8986E+00-.6498E+00-.3148E-01 .2169E+00-.9757E+00 .4665E+00
16-.7499E+00 .5000E-04-.7511E+00-.6200E-020. -.1000E+01 .4433E+00
1-.2494E+00-.9078E+00-.6646E+00-.3363E-01-.1895E+00-.9813E+00 .4725E+00
2-.2500E+00-.1753E+01-.2625E+00-.2410E-01-.6331E+00-.7737E+00 .4939E+00
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4-.2505E+00-.2124E+01 .1473E+01 .5037E-01-.9975E+00 .4858E-01 .4235E+00
5-.2505E+00-.1943E+01 .2282E+01 .4997E-01-.9227E+00 .3822E+00 .4189E+00
6-.2505E+00-.1487E+01 .2965E+01 .5000E-01-.7062E+00 .7062E+00 .4189E+00
7-.2505E+00-.8049E+00 .3421E+01 .4997E-01-.3822E+00 .9227E+00 .4189E+00
8-.2505E+00-.2505E-04 .3581E+01 .4994E-010. .9988E+00 .4189E+00
9-.2505E+00 .8049E+00 .3421E+01 .4993E-01 .3822E+00 .9227E+00 .4189E+00
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14-.2500E+00 .1753E+01-.2625E+00-.2410E-01 .6331E+00-.7737E+00 .4939E+00
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16-.2499E+00 .2499E-04-.7542E+00-.6200E-020. -.1000E+01 .4439E+00
1 .4535E+00 .1611E+01-.4146E+00-.1129E-01 .5383E+00-.8427E+00 .6284E+00
2 .4735E+00 .1068E+01-.6550E+00-.4811E-02 .2156E+00-.9765E+00 .5424E+00
3 .4747E+00 .5336E+00-.7406E+00-.3841E-02 .9604E-01-.9954E+00 .5321E+00
4 .4750E+00-.2220E-15-.7665E+00-.3600E-020. -.1000E+01 .5295E+00
5 .4747E+00-.5336E+00-.7406E+00-.3841E-02-.9604E-01-.9954E+00 .5321E+00
6 .4735E+00-.1068E+01-.6550E+00-.4811E-02-.2156E+00-.9765E+00 .5424E+00
7 .4535E+00-.1611E+01-.4146E+00-.1129E-01-.5383E+00-.8427E+00 .6284E+00
1 .1467E+01 .1156E+01-.6367E+00 .1048E-02 .2433E+00-.9699E+00 .3927E+00
2 .1469E+01 .7703E+00-.7143E+00-.1552E-02 .1445E+00-.9895E+00 .3849E+00
3 .1470E+01 .3850E+00-.7561E+00-.2107E-02 .6837E-01-.9977E+00 .3817E+00
4 .1470E+01-.6661E-15-.7694E+00-.2200E-020. -.1000E+01 .3808E+00
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6 .1469E+01-.7703E+00-.7143E+00-.1552E-02-.1445E+00-.9895E+00 .3849E+00
7 .1467E+01-.1156E+01-.6367E+00 .1048E-02-.2433E+00-.9699E+00 .3927E+00
1 .2518E+01 .7447E+00-.7176E+00 .3534E-02 .1450E+00-.9894E+00 .2804E+00

2 .2519E+01 .4963E+00-.7481E+00 .5405E-03 .9225E-01-.9957E+00 .2786E+00
 3 .2519E+01 .2481E+00-.7656E+00-.8860E-03 .4493E-01-.9990E+00 .2777E+00
 4 .2519E+01-.6661E-15-.7713E+00-.1304E-020. -.1000E+01 .2774E+00
 5 .2519E+01-.2481E+00-.7656E+00-.8860E-03-.4493E-01-.9990E+00 .2777E+00
 6 .2519E+01-.4963E+00-.7481E+00 .5405E-03-.9225E-01-.9957E+00 .2786E+00
 7 .2518E+01-.7447E+00-.7176E+00 .3534E-02-.1450E+00-.9894E+00 .2804E+00
 1 .3578E+01 .3471E+00-.7579E+00 .1100E-01 .7984E-01-.9967E+00 .1116E+00
 2 .3578E+01 .2313E+00-.7659E+00 .4637E-02 .5315E-01-.9986E+00 .1114E+00
 3 .3578E+01 .1157E+00-.7707E+00 .7482E-03 .2636E-01-.9997E+00 .1112E+00
 4 .3578E+01-.5551E-15-.7723E+00-.5217E-030. -.1000E+01 .1112E+00
 5 .3578E+01-.1157E+00-.7707E+00 .7482E-03-.2636E-01-.9997E+00 .1112E+00
 6 .3578E+01-.2313E+00-.7659E+00 .4637E-02-.5315E-01-.9986E+00 .1114E+00
 7 .3578E+01-.3471E+00-.7579E+00 .1100E-01-.7984E-01-.9967E+00 .1116E+00
 1 .2396E+00-.2098E+01 .1045E+01 .4662E-01-.9986E+00 .2415E-01 .8425E+00
 2 .2494E+00-.1919E+01 .2272E+01 .5609E-01-.9224E+00 .3821E+00 .4137E+00
 3 .2494E+00-.1469E+01 .2946E+01 .5599E-01-.7060E+00 .7060E+00 .4138E+00
 4 .2494E+00-.7948E+00 .3396E+01 .5605E-01-.3821E+00 .9224E+00 .4137E+00
 5 .2494E+00-.1405E-15 .3554E+01 .5611E-010. .9984E+00 .4138E+00
 6 .2494E+00 .7947E+00 .3396E+01 .5609E-01 .3821E+00 .9224E+00 .4137E+00
 7 .2494E+00 .1468E+01 .2946E+01 .5599E-01 .7060E+00 .7060E+00 .4138E+00
 8 .2494E+00 .1919E+01 .2272E+01 .5605E-01 .9224E+00 .3821E+00 .4137E+00
 9 .2396E+00 .2098E+01 .1045E+01 .4662E-01 .9986E+00 .2415E-01 .8425E+00
 1 .8435E+00-.2061E+01 .1185E+01 .6104E-01-.9977E+00 .2862E-01 .9783E+00
 2 .8487E+00-.1885E+01 .2258E+01 .6319E-01-.9220E+00 .3819E+00 .5694E+00
 3 .8487E+00-.1443E+01 .2920E+01 .6326E-01-.7057E+00 .7057E+00 .5694E+00
 4 .8487E+00-.7809E+00 .3363E+01 .6321E-01-.3819E+00 .9220E+00 .5694E+00
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 6 .8487E+00 .7809E+00 .3363E+01 .6319E-01 .3819E+00 .9220E+00 .5694E+00
 7 .8487E+00 .1443E+01 .2920E+01 .6326E-01 .7057E+00 .7057E+00 .5694E+00
 8 .8487E+00 .1885E+01 .2258E+01 .6321E-01 .9220E+00 .3819E+00 .5694E+00
 9 .8435E+00 .2061E+01 .1185E+01 .6104E-01 .9977E+00 .2862E-01 .9783E+00
 1 .1790E+01-.1994E+01 .1244E+01 .7421E-01-.9968E+00 .3074E-01 .1507E+01
 2 .1795E+01-.1824E+01 .2233E+01 .7470E-01-.9213E+00 .3816E+00 .9447E+00
 3 .1795E+01-.1396E+01 .2873E+01 .7469E-01-.7051E+00 .7051E+00 .9448E+00
 4 .1795E+01-.7553E+00 .3301E+01 .7470E-01-.3816E+00 .9213E+00 .9447E+00
 5 .1795E+01-.5412E-15 .3451E+01 .7471E-010. .9972E+00 .9448E+00
 6 .1795E+01 .7553E+00 .3301E+01 .7470E-01 .3816E+00 .9213E+00 .9447E+00
 7 .1795E+01 .1396E+01 .2873E+01 .7469E-01 .7051E+00 .7051E+00 .9448E+00
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 9 .1790E+01 .1994E+01 .1244E+01 .7421E-01 .9968E+00 .3074E-01 .1507E+01
 1 .2994E+01-.1894E+01 .1275E+01 .8972E-01-.9955E+00 .3174E-01 .1388E+01
 2 .2994E+01-.1732E+01 .2195E+01 .8929E-01-.9202E+00 .3811E+00 .8986E+00
 3 .2994E+01-.1326E+01 .2803E+01 .8927E-01-.7043E+00 .7043E+00 .8985E+00
 4 .2994E+01-.7176E+00 .3210E+01 .8929E-01-.3811E+00 .9202E+00 .8986E+00
 5 .2994E+01-.9021E-15 .3353E+01 .8931E-010. .9960E+00 .8986E+00
 6 .2994E+01 .7176E+00 .3210E+01 .8929E-01 .3811E+00 .9202E+00 .8986E+00
 7 .2994E+01 .1326E+01 .2803E+01 .8927E-01 .7043E+00 .7043E+00 .8985E+00
 8 .2994E+01 .1732E+01 .2195E+01 .8929E-01 .9202E+00 .3811E+00 .8986E+00
 9 .2994E+01 .1894E+01 .1275E+01 .8972E-01 .9955E+00 .3174E-01 .1388E+01
 1 .4197E+01-.1776E+01 .1278E+01 .1049E+00-.9940E+00 .3121E-01 .1327E+01
 2 .4193E+01-.1625E+01 .2150E+01 .1038E+00-.9189E+00 .3805E+00 .8440E+00
 3 .4193E+01-.1244E+01 .2721E+01 .1037E+00-.7033E+00 .7033E+00 .8439E+00
 4 .4193E+01-.6732E+00 .3102E+01 .1038E+00-.3805E+00 .9189E+00 .8440E+00
 5 .4193E+01-.9714E-16 .3236E+01 .1038E+000. .9946E+00 .8440E+00
 6 .4193E+01 .6732E+00 .3102E+01 .1038E+00 .3805E+00 .9189E+00 .8440E+00
 7 .4193E+01 .1244E+01 .2721E+01 .1037E+00 .7033E+00 .7033E+00 .8439E+00
 8 .4193E+01 .1625E+01 .2150E+01 .1038E+00 .9189E+00 .3805E+00 .8440E+00
 9 .4197E+01 .1776E+01 .1278E+01 .1049E+00 .9940E+00 .3121E-01 .1327E+01
 1 .5402E+01-.1712E+01 .1268E+01 .2634E-03-.9995E+00 .3038E-01 .1313E+01
 2 .5400E+01-.1567E+01 .2126E+01-.3850E-04-.9239E+00 .3826E+00 .8096E+00
 3 .5400E+01-.1199E+01 .2676E+010. -.7071E+00 .7071E+00 .8095E+00
 4 .5400E+01-.6489E+00 .3044E+01-.3850E-04-.3826E+00 .9239E+00 .8096E+00
 5 .5400E+01 .2714E-14 .3173E+01-.8333E-040. .1000E+01 .8095E+00
 6 .5400E+01 .6489E+00 .3044E+01-.3850E-04 .3826E+00 .9239E+00 .8096E+00
 7 .5400E+01 .1199E+01 .2676E+010. .7071E+00 .7071E+00 .8095E+00
 8 .5400E+01 .1567E+01 .2126E+01-.3850E-04 .9239E+00 .3826E+00 .8096E+00

9	.5402E+01	.1712E+01	.1268E+01	.2634E-03	.9995E+00	.3038E-01	.1313E+01
1	.7018E+01	-.1712E+01	.1229E+01	.9030E-03	-.9996E+00	.2837E-01	.2340E+01
2	.7000E+01	-.1567E+01	.2126E+01		-.9239E+00	.3827E+00	.1349E+01
3	.7000E+01	-.1199E+01	.2676E+01		-.7071E+00	.7071E+00	.1349E+01
4	.7000E+01	-.6490E+00	.3044E+01		-.3827E+00	.9239E+00	.1349E+01
5	.7000E+01	-.5611E-15	.3173E+01		0.	.1000E+01	.1349E+01
6	.7000E+01	.6490E+00	.3044E+01		.3827E+00	.9239E+00	.1349E+01
7	.7000E+01	.1199E+01	.2676E+01		.7071E+00	.7071E+00	.1349E+01
8	.7000E+01	.1567E+01	.2126E+01		.9239E+00	.3827E+00	.1349E+01
9	.7018E+01	.1712E+01	.1229E+01	.9030E-03	.9996E+00	.2837E-01	.2340E+01
1	.9030E+01	-.1712E+01	.1135E+01	.1506E-02	-.9997E+00	.2447E-01	.2714E+01
2	.9000E+01	-.1567E+01	.2126E+01		-.9239E+00	.3827E+00	.1349E+01
3	.9000E+01	-.1199E+01	.2676E+01		-.7071E+00	.7071E+00	.1349E+01
4	.9000E+01	-.6490E+00	.3044E+01		-.3827E+00	.9239E+00	.1349E+01
5	.9000E+01	-.5611E-15	.3173E+01		0.	.1000E+01	.1349E+01
6	.9000E+01	.6490E+00	.3044E+01		.3827E+00	.9239E+00	.1349E+01
7	.9000E+01	.1199E+01	.2676E+01		.7071E+00	.7071E+00	.1349E+01
8	.9000E+01	.1567E+01	.2126E+01		.9239E+00	.3827E+00	.1349E+01
9	.9030E+01	.1712E+01	.1135E+01	.1506E-02	.9997E+00	.2447E-01	.2714E+01
1	.1117E+02	-.1712E+01	.9467E+00	.2104E-02	-.9998E+00	.1925E-01	.3863E+01
2	.1112E+02	-.1567E+01	.2126E+01		-.9239E+00	.3827E+00	.1511E+01
3	.1112E+02	-.1199E+01	.2676E+01		-.7071E+00	.7071E+00	.1511E+01
4	.1112E+02	-.6490E+00	.3044E+01		-.3827E+00	.9239E+00	.1511E+01
5	.1112E+02	.3026E-15	.3173E+01		0.	.1000E+01	.1511E+01
6	.1112E+02	.6490E+00	.3044E+01		.3827E+00	.9239E+00	.1511E+01
7	.1112E+02	.1199E+01	.2676E+01		.7071E+00	.7071E+00	.1511E+01
8	.1112E+02	.1567E+01	.2126E+01		.9239E+00	.3827E+00	.1511E+01
9	.1117E+02	.1712E+01	.9467E+00	.2104E-02	.9998E+00	.1925E-01	.3863E+01
1	.1506E+02	-.1712E+01	.8301E+00		-.9999E+00	.1686E-01	.1111E+02
2	.1506E+02	-.1567E+01	.2126E+01		-.9239E+00	.3827E+00	.3805E+01
3	.1506E+02	-.1199E+01	.2676E+01		-.7071E+00	.7071E+00	.3805E+01
4	.1506E+02	-.6490E+00	.3044E+01		-.3827E+00	.9239E+00	.3805E+01
5	.1506E+02	.4203E-16	.3173E+01		0.	.1000E+01	.3805E+01
6	.1506E+02	.6490E+00	.3044E+01		.3827E+00	.9239E+00	.3805E+01
7	.1506E+02	.1199E+01	.2676E+01		.7071E+00	.7071E+00	.3805E+01
8	.1506E+02	.1567E+01	.2126E+01		.9239E+00	.3827E+00	.3805E+01
9	.1506E+02	.1712E+01	.8301E+00		.9999E+00	.1686E-01	.1111E+02
10	.1506E+02	-.8571E-15	.1544E+00		0.	-.1000E+01	.1950E+02
1	.2070E+02	-.1712E+01	.8301E+00		-.9999E+00	.1686E-01	.1111E+02
2	.2070E+02	-.1567E+01	.2126E+01		-.9239E+00	.3827E+00	.3805E+01
3	.2070E+02	-.1199E+01	.2676E+01		-.7071E+00	.7071E+00	.3805E+01
4	.2070E+02	-.6490E+00	.3044E+01		-.3827E+00	.9239E+00	.3805E+01
5	.2070E+02	.4203E-16	.3173E+01		0.	.1000E+01	.3805E+01
6	.2070E+02	.6490E+00	.3044E+01		.3827E+00	.9239E+00	.3805E+01
7	.2070E+02	.1199E+01	.2676E+01		.7071E+00	.7071E+00	.3805E+01
8	.2070E+02	.1567E+01	.2126E+01		.9239E+00	.3827E+00	.3805E+01
9	.2070E+02	.1712E+01	.8301E+00		.9999E+00	.1686E-01	.1111E+02
10	.2070E+02	-.8571E-15	.1544E+00		0.	-.1000E+01	.1950E+02
1	-.8362E+01	.2027E+02	.2150E+01		0.	.1000E+01	.2870E+01
2	-.8362E+01	.2081E+02	.2150E+01		0.	.1000E+01	.2870E+01
3	-.9500E+01	.2082E+02	.1075E+01	-.2228E+00	.9749E+00		.1544E+02
4	-.9500E+01	.2082E+02	.1075E+01	-.2228E+00	.9749E+00		.1544E+02
5	-.8362E+01	.2081E+02	.2150E+01		0.	-.1000E+01	.2870E+01
6	-.8362E+01	.2027E+02	.2150E+01		0.	-.1000E+01	.2870E+01
7	-.9500E+01	.2000E+02	.1075E+01		-.1000E+01		.1505E+02
8	-.9500E+01	.2000E+02	.1075E+01		-.1000E+01		.1505E+02
1	-.4411E+01	.2050E+02	.2150E+01		0.	.1000E+01	.2955E+01
2	-.4413E+01	.2149E+02	.2150E+01		0.	.1000E+01	.2940E+01
3	-.4500E+01	.2197E+02	.1075E+01	-.2241E+00	.9746E+00		.6618E+01
4	-.4500E+01	.2197E+02	.1075E+01	-.2241E+00	.9746E+00		.6618E+01
5	-.4413E+01	.2149E+02	.2150E+01		0.	-.1000E+01	.2940E+01
6	-.4411E+01	.2050E+02	.2150E+01		0.	-.1000E+01	.2955E+01
7	-.4500E+01	.2000E+02	.1075E+01		-.1000E+01		.6450E+01
8	-.4500E+01	.2000E+02	.1075E+01		-.1000E+01		.6450E+01
1	-.1436E+01	.2067E+02	.2150E+01		0.	.1000E+01	.3990E+01
2	-.1434E+01	.2200E+02	.2150E+01		0.	.1000E+01	.3975E+01

3-	.1500E+01	.2266E+02	.1075E+01-	.2241E+00	.9746E+000.	.6618E+01
4-	.1500E+01	.2266E+02-	.1075E+01-	.2241E+00	.9746E+000.	.6618E+01
5-	.1434E+01	.2200E+02-	.2150E+010.	0.	-.1000E+01	.3975E+01
6-	.1436E+01	.2067E+02-	.2150E+010.	0.	-.1000E+01	.3990E+01
7-	.1500E+01	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.6450E+01
8-	.1500E+01	.2000E+02	.1075E+010.	0.	-.1000E+010.	.6450E+01
1	.2500E+00	.2075E+02	.2150E+010.	0.	.1000E+01	.7500E+00
2	.2500E+00	.2225E+02	.2150E+010.	0.	.1000E+01	.7500E+00
3	.2500E+00	.2300E+02	.1075E+010.	0.	.1000E+010.	.1075E+01
4	.2500E+00	.2300E+02-	.1075E+010.	0.	.1000E+010.	.1075E+01
5	.2500E+00	.2225E+02-	.2150E+010.	0.	-.1000E+01	.7500E+00
6	.2500E+00	.2075E+02-	.2150E+010.	0.	-.1000E+01	.7500E+00
7	.2500E+00	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.1075E+01
8	.2500E+00	.2000E+02	.1075E+010.	0.	-.1000E+010.	.1075E+01
1	.1250E+01	.2075E+02	.2150E+010.	0.	.1000E+01	.2250E+01
2	.1250E+01	.2225E+02	.2150E+010.	0.	.1000E+01	.2250E+01
3	.1250E+01	.2300E+02	.1075E+010.	0.	.1000E+010.	.3225E+01
4	.1250E+01	.2300E+02-	.1075E+010.	0.	.1000E+010.	.3225E+01
5	.1250E+01	.2225E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
6	.1250E+01	.2075E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
7	.1250E+01	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.3225E+01
8	.1250E+01	.2000E+02	.1075E+010.	0.	-.1000E+010.	.3225E+01
1	.2750E+01	.2075E+02	.2150E+010.	0.	.1000E+01	.2250E+01
2	.2750E+01	.2225E+02	.2150E+010.	0.	.1000E+01	.2250E+01
3	.2750E+01	.2300E+02	.1075E+010.	0.	.1000E+010.	.3225E+01
4	.2750E+01	.2300E+02-	.1075E+010.	0.	.1000E+010.	.3225E+01
5	.2750E+01	.2225E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
6	.2750E+01	.2075E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
7	.2750E+01	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.3225E+01
8	.2750E+01	.2000E+02	.1075E+010.	0.	-.1000E+010.	.3225E+01
1	.4500E+01	.2075E+02	.2150E+010.	0.	.1000E+01	.3000E+01
2	.4500E+01	.2225E+02	.2150E+010.	0.	.1000E+01	.3000E+01
3	.4500E+01	.2300E+02	.1075E+010.	0.	.1000E+010.	.4300E+01
4	.4500E+01	.2300E+02-	.1075E+010.	0.	.1000E+010.	.4300E+01
5	.4500E+01	.2225E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
6	.4500E+01	.2075E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
7	.4500E+01	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.4300E+01
8	.4500E+01	.2000E+02	.1075E+010.	0.	-.1000E+010.	.4300E+01
1	.6500E+01	.2075E+02	.2150E+010.	0.	.1000E+01	.3000E+01
2	.6500E+01	.2225E+02	.2150E+010.	0.	.1000E+01	.3000E+01
3	.6500E+01	.2300E+02	.1075E+010.	0.	.1000E+010.	.4300E+01
4	.6500E+01	.2300E+02-	.1075E+010.	0.	.1000E+010.	.4300E+01
5	.6500E+01	.2225E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
6	.6500E+01	.2075E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
7	.6500E+01	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.4300E+01
8	.6500E+01	.2000E+02	.1075E+010.	0.	-.1000E+010.	.4300E+01
1	.8500E+01	.2075E+02	.2150E+010.	0.	.1000E+01	.3000E+01
2	.8500E+01	.2225E+02	.2150E+010.	0.	.1000E+01	.3000E+01
3	.8500E+01	.2300E+02	.1075E+010.	0.	.1000E+010.	.4300E+01
4	.8500E+01	.2300E+02-	.1075E+010.	0.	.1000E+010.	.4300E+01
5	.8500E+01	.2225E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
6	.8500E+01	.2075E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
7	.8500E+01	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.4300E+01
8	.8500E+01	.2000E+02	.1075E+010.	0.	-.1000E+010.	.4300E+01
1	.1000E+02	.2075E+02	.2150E+010.	0.	.1000E+01	.1500E+01
2	.1000E+02	.2225E+02	.2150E+010.	0.	.1000E+01	.1500E+01
3	.1000E+02	.2300E+02	.1075E+010.	0.	.1000E+010.	.2150E+01
4	.1000E+02	.2300E+02-	.1075E+010.	0.	.1000E+010.	.2150E+01
5	.1000E+02	.2225E+02-	.2150E+010.	0.	-.1000E+01	.1500E+01
6	.1000E+02	.2075E+02-	.2150E+010.	0.	-.1000E+01	.1500E+01
7	.1000E+02	.2000E+02-	.1075E+010.	0.	-.1000E+010.	.2150E+01
8	.1000E+02	.2000E+02	.1075E+010.	0.	-.1000E+010.	.2150E+01
1	.1135E+02	.2070E+02	.2150E+010.	0.	.1000E+01	.2433E+01
2	.1135E+02	.2209E+02	.2150E+010.	0.	.1000E+01	.2433E+01
3	.1138E+02	.2278E+02	.1075E+01	.2438E+00	.9698E+000.	.3880E+01
4	.1138E+02	.2278E+02-	.1075E+01	.2438E+00	.9698E+000.	.3880E+01

5	.1135E+02	.2209E+02	-.2150E+010.	0.	-.1000E+01	.2433E+01
6	.1135E+02	.2070E+02	-.2150E+010.	0.	-.1000E+01	.2433E+01
7	.1138E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.3763E+01
8	.1138E+02	.2000E+02	.1075E+010.	-.1000E+010.		.3763E+01
1	.1310E+02	.2059E+02	.2150E+010.	0.	.1000E+01	.2056E+01
2	.1310E+02	.2177E+02	.2150E+010.	0.	.1000E+01	.2048E+01
3	.1313E+02	.2235E+02	.1075E+01 .2386E+00	.9711E+000.		.3874E+01
4	.1313E+02	.2235E+02	-.1075E+01 .2386E+00	.9711E+000.		.3874E+01
5	.1310E+02	.2177E+02	-.2150E+010.	0.	-.1000E+01	.2048E+01
6	.1310E+02	.2059E+02	-.2150E+010.	0.	-.1000E+01	.2056E+01
7	.1313E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.3763E+01
8	.1313E+02	.2000E+02	.1075E+010.	-.1000E+010.		.3763E+01
1	.1500E+02	.2107E+02	.2150E+010.	0.	.1000E+01	.4260E+01
2	.1500E+02	.2213E+02	.1075E+010.	.1000E+010.		.4300E+01
3	.1500E+02	.2213E+02	-.1075E+010.	.1000E+010.		.4300E+01
4	.1500E+02	.2107E+02	-.2150E+010.	0.	-.1000E+01	.4260E+01
5	.1500E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.4300E+01
6	.1500E+02	.2000E+02	.1075E+010.	-.1000E+010.		.4300E+01
1	.1750E+02	.2107E+02	.2150E+010.	0.	.1000E+01	.6390E+01
2	.1750E+02	.2213E+02	.1075E+010.	.1000E+010.		.6450E+01
3	.1750E+02	.2213E+02	-.1075E+010.	.1000E+010.		.6450E+01
4	.1750E+02	.2107E+02	-.2150E+010.	0.	-.1000E+01	.6390E+01
5	.1750E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.6450E+01
6	.1750E+02	.2000E+02	.1075E+010.	-.1000E+010.		.6450E+01
1	.2100E+02	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
2	.2100E+02	.2213E+02	.1075E+010.	.1000E+010.		.8600E+01
3	.2100E+02	.2213E+02	-.1075E+010.	.1000E+010.		.8600E+01
4	.2100E+02	.2107E+02	-.2150E+010.	0.	-.1000E+01	.8520E+01
5	.2100E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.8600E+01
6	.2100E+02	.2000E+02	.1075E+010.	-.1000E+010.		.8600E+01
1	.2500E+02	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
2	.2500E+02	.2213E+02	.1075E+010.	.1000E+010.		.8600E+01
3	.2500E+02	.2213E+02	-.1075E+010.	.1000E+010.		.8600E+01
4	.2500E+02	.2107E+02	-.2150E+010.	0.	-.1000E+01	.8520E+01
5	.2500E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.8600E+01
6	.2500E+02	.2000E+02	.1075E+010.	-.1000E+010.		.8600E+01
1	.2900E+02	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
2	.2900E+02	.2213E+02	.1075E+010.	.1000E+010.		.8600E+01
3	.2900E+02	.2213E+02	-.1075E+010.	.1000E+010.		.8600E+01
4	.2900E+02	.2107E+02	-.2150E+010.	0.	-.1000E+01	.8520E+01
5	.2900E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.8600E+01
6	.2900E+02	.2000E+02	.1075E+010.	-.1000E+010.		.8600E+01
1	.3300E+02	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
2	.3300E+02	.2213E+02	.1075E+010.	.1000E+010.		.8600E+01
3	.3300E+02	.2213E+02	-.1075E+010.	.1000E+010.		.8600E+01
4	.3300E+02	.2107E+02	-.2150E+010.	0.	-.1000E+01	.8520E+01
5	.3300E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.8600E+01
6	.3300E+02	.2000E+02	.1075E+010.	-.1000E+010.		.8600E+01
1	.3563E+02	.2107E+02	.2150E+010.	0.	.1000E+01	.2663E+01
2	.3563E+02	.2213E+02	.1075E+010.	.1000E+010.		.2688E+01
3	.3563E+02	.2213E+02	-.1075E+010.	.1000E+010.		.2688E+01
4	.3563E+02	.2107E+02	-.2150E+010.	0.	-.1000E+01	.2663E+01
5	.3563E+02	.2000E+02	-.1075E+010.	-.1000E+010.		.2688E+01
6	.3563E+02	.2000E+02	.1075E+010.	-.1000E+010.		.2688E+01
1	-.9500E+01	-.2000E+02	.1075E+010.	.1000E+010.		.1505E+02
2	-.9500E+01	-.2000E+02	-.1075E+010.	.1000E+010.		.1505E+02
3	-.8362E+01	-.2027E+02	-.2150E+010.	0.	-.1000E+01	.2870E+01
4	-.8362E+01	-.2081E+02	-.2150E+010.	0.	-.1000E+01	.2870E+01
5	-.9500E+01	-.2082E+02	-.1075E+01 .2228E+00	-.9749E+000.		.1544E+02
6	-.9500E+01	-.2082E+02	.1075E+01 .2228E+00	-.9749E+000.		.1544E+02
7	-.8362E+01	-.2081E+02	.2150E+010.	0.	.1000E+01	.2870E+01
8	-.8362E+01	-.2027E+02	.2150E+010.	0.	.1000E+01	.2870E+01
1	-.4500E+01	-.2000E+02	.1075E+010.	.1000E+010.		.6450E+01
2	-.4500E+01	-.2000E+02	-.1075E+010.	.1000E+010.		.6450E+01
3	-.4411E+01	-.2050E+02	-.2150E+010.	0.	-.1000E+01	.2955E+01
4	-.4413E+01	-.2149E+02	-.2150E+010.	0.	-.1000E+01	.2940E+01

5-	.4500E+01-	.2197E+02-	.1075E+01-	.2241E+00-	.9746E+000.	.6618E+01
6-	.4500E+01-	.2197E+02	.1075E+01-	.2241E+00-	.9746E+000.	.6618E+01
7-	.4413E+01-	.2149E+02	.2150E+010.	0.	.1000E+01	.2940E+01
8-	.4411E+01-	.2050E+02	.2150E+010.	0.	.1000E+01	.2955E+01
1-	.1500E+01-	.2000E+02	.1075E+010.	.1000E+010.		.6450E+01
2-	.1500E+01-	.2000E+02-	.1075E+010.	.1000E+010.		.6450E+01
3-	.1436E+01-	.2067E+02-	.2150E+010.	0.	-.1000E+01	.3990E+01
4-	.1434E+01-	.2200E+02-	.2150E+010.	0.	-.1000E+01	.3975E+01
5-	.1500E+01-	.2266E+02-	.1075E+01-	.2241E+00-	.9746E+000.	.6618E+01
6-	.1500E+01-	.2266E+02	.1075E+01-	.2241E+00-	.9746E+000.	.6618E+01
7-	.1434E+01-	.2200E+02	.2150E+010.	0.	.1000E+01	.3975E+01
8-	.1436E+01-	.2067E+02	.2150E+010.	0.	.1000E+01	.3990E+01
1	.2500E+00-	.2000E+02	.1075E+010.	.1000E+010.		.1075E+01
2	.2500E+00-	.2000E+02-	.1075E+010.	.1000E+010.		.1075E+01
3	.2500E+00-	.2075E+02-	.2150E+010.	0.	-.1000E+01	.7500E+00
4	.2500E+00-	.2225E+02-	.2150E+010.	0.	-.1000E+01	.7500E+00
5	.2500E+00-	.2300E+02-	.1075E+010.	-.1000E+010.		.1075E+01
6	.2500E+00-	.2300E+02	.1075E+010.	-.1000E+010.		.1075E+01
7	.2500E+00-	.2225E+02	.2150E+010.	0.	.1000E+01	.7500E+00
8	.2500E+00-	.2075E+02	.2150E+010.	0.	.1000E+01	.7500E+00
1	.1250E+01-	.2000E+02	.1075E+010.	.1000E+010.		.3225E+01
2	.1250E+01-	.2000E+02-	.1075E+010.	.1000E+010.		.3225E+01
3	.1250E+01-	.2075E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
4	.1250E+01-	.2225E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
5	.1250E+01-	.2300E+02-	.1075E+010.	-.1000E+010.		.3225E+01
6	.1250E+01-	.2300E+02	.1075E+010.	-.1000E+010.		.3225E+01
7	.1250E+01-	.2225E+02	.2150E+010.	0.	.1000E+01	.2250E+01
8	.1250E+01-	.2075E+02	.2150E+010.	0.	.1000E+01	.2250E+01
1	.2750E+01-	.2000E+02	.1075E+010.	.1000E+010.		.3225E+01
2	.2750E+01-	.2000E+02-	.1075E+010.	.1000E+010.		.3225E+01
3	.2750E+01-	.2075E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
4	.2750E+01-	.2225E+02-	.2150E+010.	0.	-.1000E+01	.2250E+01
5	.2750E+01-	.2300E+02-	.1075E+010.	-.1000E+010.		.3225E+01
6	.2750E+01-	.2300E+02	.1075E+010.	-.1000E+010.		.3225E+01
7	.2750E+01-	.2225E+02	.2150E+010.	0.	.1000E+01	.2250E+01
8	.2750E+01-	.2075E+02	.2150E+010.	0.	.1000E+01	.2250E+01
1	.4500E+01-	.2000E+02	.1075E+010.	.1000E+010.		.4300E+01
2	.4500E+01-	.2000E+02-	.1075E+010.	.1000E+010.		.4300E+01
3	.4500E+01-	.2075E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
4	.4500E+01-	.2225E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
5	.4500E+01-	.2300E+02-	.1075E+010.	-.1000E+010.		.4300E+01
6	.4500E+01-	.2300E+02	.1075E+010.	-.1000E+010.		.4300E+01
7	.4500E+01-	.2225E+02	.2150E+010.	0.	.1000E+01	.3000E+01
8	.4500E+01-	.2075E+02	.2150E+010.	0.	.1000E+01	.3000E+01
1	.6500E+01-	.2000E+02	.1075E+010.	.1000E+010.		.4300E+01
2	.6500E+01-	.2000E+02-	.1075E+010.	.1000E+010.		.4300E+01
3	.6500E+01-	.2075E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
4	.6500E+01-	.2225E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
5	.6500E+01-	.2300E+02-	.1075E+010.	-.1000E+010.		.4300E+01
6	.6500E+01-	.2300E+02	.1075E+010.	-.1000E+010.		.4300E+01
7	.6500E+01-	.2225E+02	.2150E+010.	0.	.1000E+01	.3000E+01
8	.6500E+01-	.2075E+02	.2150E+010.	0.	.1000E+01	.3000E+01
1	.8500E+01-	.2000E+02	.1075E+010.	.1000E+010.		.4300E+01
2	.8500E+01-	.2000E+02-	.1075E+010.	.1000E+010.		.4300E+01
3	.8500E+01-	.2075E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
4	.8500E+01-	.2225E+02-	.2150E+010.	0.	-.1000E+01	.3000E+01
5	.8500E+01-	.2300E+02-	.1075E+010.	-.1000E+010.		.4300E+01
6	.8500E+01-	.2300E+02	.1075E+010.	-.1000E+010.		.4300E+01
7	.8500E+01-	.2225E+02	.2150E+010.	0.	.1000E+01	.3000E+01
8	.8500E+01-	.2075E+02	.2150E+010.	0.	.1000E+01	.3000E+01
1	.1000E+02-	.2000E+02	.1075E+010.	.1000E+010.		.2150E+01
2	.1000E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.2150E+01
3	.1000E+02-	.2075E+02-	.2150E+010.	0.	-.1000E+01	.1500E+01
4	.1000E+02-	.2225E+02-	.2150E+010.	0.	-.1000E+01	.1500E+01
5	.1000E+02-	.2300E+02-	.1075E+010.	-.1000E+010.		.2150E+01
6	.1000E+02-	.2300E+02	.1075E+010.	-.1000E+010.		.2150E+01

7	.1000E+02-	.2225E+02	.2150E+010.	0.	.1000E+01	.1500E+01
8	.1000E+02-	.2075E+02	.2150E+010.	0.	.1000E+01	.1500E+01
1	.1138E+02-	.2000E+02	.1075E+010.	.1000E+010.		.3763E+01
2	.1138E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.3763E+01
3	.1135E+02-	.2070E+02-	.2150E+010.	0.	-.1000E+01	.2433E+01
4	.1135E+02-	.2209E+02-	.2150E+010.	0.	-.1000E+01	.2433E+01
5	.1138E+02-	.2278E+02-	.1075E+01	.2438E+00-	.9698E+000.	.3880E+01
6	.1138E+02-	.2278E+02	.1075E+01	.2438E+00-	.9698E+000.	.3880E+01
7	.1135E+02-	.2209E+02	.2150E+010.	0.	.1000E+01	.2433E+01
8	.1135E+02-	.2070E+02	.2150E+010.	0.	.1000E+01	.2433E+01
1	.1313E+02-	.2000E+02	.1075E+010.	.1000E+010.		.3763E+01
2	.1313E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.3763E+01
3	.1310E+02-	.2059E+02-	.2150E+010.	0.	-.1000E+01	.2056E+01
4	.1310E+02-	.2177E+02-	.2150E+010.	0.	-.1000E+01	.2048E+01
5	.1313E+02-	.2235E+02-	.1075E+01	.2386E+00-	.9711E+000.	.3874E+01
6	.1313E+02-	.2235E+02	.1075E+01	.2386E+00-	.9711E+000.	.3874E+01
7	.1310E+02-	.2177E+02	.2150E+010.	0.	.1000E+01	.2048E+01
8	.1310E+02-	.2059E+02	.2150E+010.	0.	.1000E+01	.2056E+01
1	.1500E+02-	.2000E+02	.1075E+010.	.1000E+010.		.4300E+01
2	.1500E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.4300E+01
3	.1500E+02-	.2107E+02-	.2150E+010.	0.	-.1000E+01	.4260E+01
4	.1500E+02-	.2213E+02-	.1075E+010.	-.1000E+010.		.4300E+01
5	.1500E+02-	.2213E+02	.1075E+010.	-.1000E+010.		.4300E+01
6	.1500E+02-	.2107E+02	.2150E+010.	0.	.1000E+01	.4260E+01
1	.1750E+02-	.2000E+02	.1075E+010.	.1000E+010.		.6450E+01
2	.1750E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.6450E+01
3	.1750E+02-	.2107E+02-	.2150E+010.	0.	-.1000E+01	.6390E+01
4	.1750E+02-	.2213E+02-	.1075E+010.	-.1000E+010.		.6450E+01
5	.1750E+02-	.2213E+02	.1075E+010.	-.1000E+010.		.6450E+01
6	.1750E+02-	.2107E+02	.2150E+010.	0.	.1000E+01	.6390E+01
1	.2100E+02-	.2000E+02	.1075E+010.	.1000E+010.		.8600E+01
2	.2100E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.8600E+01
3	.2100E+02-	.2107E+02-	.2150E+010.	0.	-.1000E+01	.8520E+01
4	.2100E+02-	.2213E+02-	.1075E+010.	-.1000E+010.		.8600E+01
5	.2100E+02-	.2213E+02	.1075E+010.	-.1000E+010.		.8600E+01
6	.2100E+02-	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
1	.2500E+02-	.2000E+02	.1075E+010.	.1000E+010.		.8600E+01
2	.2500E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.8600E+01
3	.2500E+02-	.2107E+02-	.2150E+010.	0.	-.1000E+01	.8520E+01
4	.2500E+02-	.2213E+02-	.1075E+010.	-.1000E+010.		.8600E+01
5	.2500E+02-	.2213E+02	.1075E+010.	-.1000E+010.		.8600E+01
6	.2500E+02-	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
1	.2900E+02-	.2000E+02	.1075E+010.	.1000E+010.		.8600E+01
2	.2900E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.8600E+01
3	.2900E+02-	.2107E+02-	.2150E+010.	0.	-.1000E+01	.8520E+01
4	.2900E+02-	.2213E+02-	.1075E+010.	-.1000E+010.		.8600E+01
5	.2900E+02-	.2213E+02	.1075E+010.	-.1000E+010.		.8600E+01
6	.2900E+02-	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
1	.3300E+02-	.2000E+02	.1075E+010.	.1000E+010.		.8600E+01
2	.3300E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.8600E+01
3	.3300E+02-	.2107E+02-	.2150E+010.	0.	-.1000E+01	.8520E+01
4	.3300E+02-	.2213E+02-	.1075E+010.	-.1000E+010.		.8600E+01
5	.3300E+02-	.2213E+02	.1075E+010.	-.1000E+010.		.8600E+01
6	.3300E+02-	.2107E+02	.2150E+010.	0.	.1000E+01	.8520E+01
1	.3563E+02-	.2000E+02	.1075E+010.	.1000E+010.		.2688E+01
2	.3563E+02-	.2000E+02-	.1075E+010.	.1000E+010.		.2688E+01
3	.3563E+02-	.2107E+02-	.2150E+010.	0.	-.1000E+01	.2663E+01
4	.3563E+02-	.2213E+02-	.1075E+010.	-.1000E+010.		.2688E+01
5	.3563E+02-	.2213E+02	.1075E+010.	-.1000E+010.		.2688E+01
6	.3563E+02-	.2107E+02	.2150E+010.	0.	.1000E+01	.2663E+01

Output Details

The first part of the output is very similar to a HESS code output. After the information regarding the geometry has been printed, the name list NPUT, containing the propeller operating conditions, the axial and tangential component of the induced velocity is printed at 20 span stations. The panel coordinates and the induced velocity components in the aircraft coordinate system at these panel points are also printed.

After the slipstream details, the rest of the output is similar to that of the HESS code. A sample copy of the punched output file "BLOUT" is attached herewith.

PUNCHED OUTPUT OF THE HESS CODE, FOR POST PROCESSING

x y z u v w C_p

IN FORMAT (7E12.5)

SAMPLE PUNCHED OUTPUT IN FILE "BLOUT"

.12000E+02	.18190E+02	-.13060E+00	.91589E+00	-.88956E-02	-.86096E-01	.15514E+00
.11520E+02	.18190E+02	-.82050E-01	.84606E+00	-.11307E-01	-.77171E-01	.28297E+00
.11040E+02	.18190E+02	-.54850E-01	.81853E+00	-.13356E-01	.28693E-02	.33668E+00
.10500E+02	.18190E+02	-.72950E-01	.82367E+00	-.14175E-01	.61894E-01	.32390E+00
.96600E+01	.18190E+02	-.17120E+00	.86105E+00	-.12922E-01	.12035E+00	.24769E+00
.85800E+01	.18190E+02	-.34590E+00	.92432E+00	-.99310E-02	.15856E+00	.12131E+00
.75000E+01	.18190E+02	-.53000E+00	.10077E+01	-.60740E-02	.15434E+00	-.39236E-01
.64200E+01	.18190E+02	-.67010E+00	.10746E+01	-.92751E-03	.98691E-01	-.16272E+00
.51000E+01	.18190E+02	-.74800E+00	.10802E+01	.34965E-02	.30036E-01	-.16603E+00
.36000E+01	.18190E+02	-.75360E+00	.10749E+01	.90978E-02	-.29846E-01	-.15495E+00
.24000E+01	.18190E+02	-.69600E+00	.10624E+01	.14520E-01	-.85355E-01	-.13493E+00
.15600E+01	.18190E+02	-.60930E+00	.10328E+01	.20531E-01	-.13922E+00	-.86108E-01
.96000E+00	.18190E+02	-.51250E+00	.99450E+00	.25609E-01	-.20387E+00	-.31192E-01
.54000E+00	.18190E+02	-.40770E+00	.91624E+00	.28403E-01	-.29658E+00	.72060E-01
.24000E+00	.18190E+02	-.28220E+00	.67456E+00	.29253E-01	-.44048E+00	.35782E+00
.60000E-01	.18190E+02	-.10650E+00	-.15755E+00	.29175E-01	-.24098E+00	.96996E+00
.60000E-01	.18190E+02	.11770E+00	.36197E+00	.29094E-01	.10295E+01	-.18947E+00
.24000E+00	.18190E+02	.30530E+00	.13175E+01	.28774E-01	.72444E+00	-.11651E+01
.54000E+00	.18190E+02	.42710E+00	.13917E+01	.27227E-01	.37599E+00	-.10081E+01
.96000E+00	.18190E+02	.52050E+00	.13350E+01	.23346E-01	.21969E+00	-.78866E+00
.15600E+01	.18190E+02	.60210E+00	.12810E+01	.16584E-01	.13713E+00	-.63318E+00
.24000E+01	.18190E+02	.67440E+00	.12450E+01	.83449E-02	.80914E-01	-.53762E+00
.36000E+01	.18190E+02	.72370E+00	.12205E+01	-.90600E-03	.29413E-01	-.47567E+00
.51000E+01	.18190E+02	.72770E+00	.12026E+01	-.11053E-01	-.16273E-01	-.43421E+00
.64200E+01	.18190E+02	.68790E+00	.11867E+01	-.18145E-01	-.52742E-01	-.40095E+00
.75000E+01	.18190E+02	.61980E+00	.11776E+01	-.22903E-01	-.84609E-01	-.38484E+00
.85800E+01	.18190E+02	.52010E+00	.11600E+01	-.25140E-01	-.11754E+00	-.35205E+00
.96600E+01	.18190E+02	.38420E+00	.11258E+01	-.24441E-01	-.15226E+00	-.28588E+00
.10500E+02	.18190E+02	.25410E+00	.10809E+01	-.21711E-01	-.17610E+00	-.19740E+00
.11040E+02	.18190E+02	.15490E+00	.10412E+01	-.18461E-01	-.18308E+00	-.11702E+00
.11520E+02	.18190E+02	.55750E-01	.10230E+01	-.14783E-01	-.18155E+00	-.79233E-01
.12000E+02	.18190E+02	-.75450E-01	.89040E+00	-.10317E-01	-.23378E+00	.15389E+00
1	3	32				
.12000E+02	.12500E+02	-.13060E+00	.89699E+00	.13087E-02	-.81940E-01	.19094E+00
.11520E+02	.12500E+02	-.82050E-01	.82358E+00	.73198E-03	-.70652E-01	.32304E+00
.11040E+02	.12500E+02	-.54850E-01	.79958E+00	.23556E-03	.79515E-02	.36881E+00
.10500E+02	.12500E+02	-.72950E-01	.80961E+00	-.16858E-03	.62846E-01	.34790E+00
.96600E+01	.12500E+02	-.17120E+00	.85080E+00	-.57428E-03	.11650E+00	.26691E+00
.85800E+01	.12500E+02	-.34590E+00	.91536E+00	-.81163E-03	.15421E+00	.13954E+00
.75000E+01	.12500E+02	-.53000E+00	.10016E+01	-.81228E-03	.15255E+00	-.26386E-01
.64200E+01	.12500E+02	-.67010E+00	.10718E+01	-.67697E-03	.98279E-01	-.15682E+00
.51000E+01	.12500E+02	-.74800E+00	.10811E+01	-.16173E-03	.30034E-01	-.16788E+00
.36000E+01	.12500E+02	-.75360E+00	.10790E+01	.74131E-03	-.29950E-01	-.16342E+00
.24000E+01	.12500E+02	-.69600E+00	.10689E+01	.16860E-02	-.85773E-01	-.14854E+00
.15600E+01	.12500E+02	-.60930E+00	.10408E+01	.23709E-02	-.14002E+00	-.10215E+00
.96000E+00	.12500E+02	-.51250E+00	.10014E+01	.28231E-02	-.20489E+00	-.44668E-01
.54000E+00	.12500E+02	-.40770E+00	.92003E+00	.31219E-02	-.29743E+00	.65336E-01
.24000E+00	.12500E+02	-.28220E+00	.67366E+00	.33078E-02	-.44010E+00	.36032E+00
.60000E-01	.12500E+02	-.10650E+00	-.16299E+00	.33785E-02	-.23380E+00	.97276E+00
.60000E-01	.12500E+02	.11770E+00	.37297E+00	.33010E-02	.10458E+01	-.22943E+00
.24000E+00	.12500E+02	.30530E+00	.13409E+01	.31053E-02	.73481E+00	-.12299E+01
.54000E+00	.12500E+02	.42710E+00	.14199E+01	.28426E-02	.38214E+00	-.10801E+01
.96000E+00	.12500E+02	.52050E+00	.13663E+01	.24761E-02	.22379E+00	-.86553E+00
.15600E+01	.12500E+02	.60210E+00	.13139E+01	.19467E-02	.13990E+00	-.71177E+00
.24000E+01	.12500E+02	.67440E+00	.12775E+01	.11436E-02	.82572E-01	-.61381E+00
.36000E+01	.12500E+02	.72370E+00	.12505E+01	-.35845E-04	.30006E-01	-.54504E+00
.51000E+01	.12500E+02	.72770E+00	.12279E+01	-.13793E-02	-.16477E-01	-.49205E+00
.64200E+01	.12500E+02	.68790E+00	.12062E+01	-.21876E-02	-.53312E-01	-.44485E+00
.75000E+01	.12500E+02	.61980E+00	.11900E+01	-.24451E-02	-.85034E-01	-.41224E+00
.85800E+01	.12500E+02	.52010E+00	.11637E+01	-.22800E-02	-.11726E+00	-.35962E+00
.96600E+01	.12500E+02	.38420E+00	.11208E+01	-.16834E-02	-.15081E+00	-.27406E+00
.10500E+02	.12500E+02	.25410E+00	.10704E+01	-.89184E-03	-.17332E+00	-.17387E+00
.11040E+02	.12500E+02	.15490E+00	.10292E+01	-.24400E-03	-.17620E+00	-.89717E-01
.11520E+02	.12500E+02	.55750E-01	.10143E+01	.40422E-03	-.17328E+00	-.58621E-01
.12000E+02	.12500E+02	-.75450E-01	.87055E+00	.11735E-02	-.23443E+00	.18938E+00
1	4	32				

.12000E+02	.78130E+01	-.13060E+00	.89018E+00	.11377E-01	-.80992E-01	.20343E+00
.11520E+02	.78130E+01	-.82050E-01	.81972E+00	.18094E-02	-.69624E-01	.32979E+00
.11040E+02	.78130E+01	-.54850E-01	.79491E+00	-.65319E-02	.86816E-02	.37655E+00
.10500E+02	.78130E+01	-.72950E-01	.80604E+00	-.17095E-01	.62673E-01	.35364E+00
.96600E+01	.78130E+01	-.17120E+00	.84832E+00	-.30633E-01	.11559E+00	.27052E+00
.85800E+01	.78130E+01	-.34590E+00	.91508E+00	-.38606E-01	.15376E+00	.13869E+00
.75000E+01	.78130E+01	-.53000E+00	.10028E+01	-.41131E-01	.15267E+00	-.30554E-01
.64200E+01	.78130E+01	-.67010E+00	.10743E+01	-.42082E-01	.98466E-01	-.16392E+00
.51000E+01	.78130E+01	-.74800E+00	.10853E+01	-.42754E-01	.30123E-01	-.17867E+00
.36000E+01	.78130E+01	-.75360E+00	.10867E+01	-.42494E-01	-.30103E-01	-.18157E+00
.24000E+01	.78130E+01	-.69600E+00	.10809E+01	-.40040E-01	-.86495E-01	-.17550E+00
.15600E+01	.78130E+01	-.60930E+00	.10569E+01	-.35926E-01	-.14165E+00	-.13726E+00
.96000E+00	.78130E+01	-.51250E+00	.10214E+01	-.30561E-01	-.20791E+00	-.86927E-01
.54000E+00	.78130E+01	-.40770E+00	.94380E+00	-.23704E-01	-.30300E+00	.16888E-01
.24000E+00	.78130E+01	-.28220E+00	.70152E+00	-.15170E-01	-.45217E+00	.30897E+00
.60000E-01	.78130E+01	-.10650E+00	-.14036E+00	-.75050E-02	-.26393E+00	.96362E+00
.60000E-01	.78130E+01	.11770E+00	.35419E+00	-.38612E-02	.10183E+01	-.16068E+00
.24000E+00	.78130E+01	.30530E+00	.13193E+01	-.38571E-02	.72546E+00	-.11697E+01
.54000E+00	.78130E+01	.42710E+00	.14021E+01	-.44924E-02	.37836E+00	-.10342E+01
.96000E+00	.78130E+01	.52050E+00	.13511E+01	-.27037E-02	.22185E+00	-.82801E+00
.15600E+01	.78130E+01	.60210E+00	.13014E+01	.13459E-02	.13889E+00	-.68162E+00
.24000E+01	.78130E+01	.67440E+00	.12677E+01	.61809E-02	.82098E-01	-.59054E+00
.36000E+01	.78130E+01	.72370E+00	.12431E+01	.10793E-01	.29885E-01	-.52787E+00
.51000E+01	.78130E+01	.72770E+00	.12222E+01	.14404E-01	-.16405E-01	-.47906E+00
.64200E+01	.78130E+01	.68790E+00	.12017E+01	.16201E-01	-.53157E-01	-.43482E+00
.75000E+01	.78130E+01	.61980E+00	.11860E+01	.16639E-01	-.84805E-01	-.40351E+00
.85800E+01	.78130E+01	.52010E+00	.11604E+01	.16248E-01	-.11694E+00	-.35241E+00
.96600E+01	.78130E+01	.38420E+00	.11179E+01	.15341E-01	-.15043E+00	-.26805E+00
.10500E+02	.78130E+01	.25410E+00	.10665E+01	.15139E-01	-.17277E+00	-.16574E+00
.11040E+02	.78130E+01	.15490E+00	.10238E+01	.15494E-01	-.17485E+00	-.78615E-01
.11520E+02	.78130E+01	.55750E-01	.10066E+01	.16609E-01	-.17112E+00	-.42646E-01
.12000E+02	.78130E+01	-.75450E-01	.86363E+00	.17329E-01	-.23357E+00	.20178E+00
1	5	32				
.12000E+02	.62500E+01	-.13060E+00	.88424E+00	.14756E-01	-.80434E-01	.21423E+00
.11520E+02	.62500E+01	-.82050E-01	.81797E+00	-.54174E-02	-.69165E-01	.33281E+00
.11040E+02	.62500E+01	-.54850E-01	.79177E+00	-.22876E-01	.91801E-02	.38126E+00
.10500E+02	.62500E+01	-.72950E-01	.80401E+00	-.45487E-01	.62811E-01	.35518E+00
.96600E+01	.62500E+01	-.17120E+00	.84710E+00	-.74231E-01	.11525E+00	.26801E+00
.85800E+01	.62500E+01	-.34590E+00	.91726E+00	-.90629E-01	.15381E+00	.12778E+00
.75000E+01	.62500E+01	-.53000E+00	.10063E+01	-.95373E-01	.15307E+00	-.44953E-01
.64200E+01	.62500E+01	-.67010E+00	.10777E+01	-.97019E-01	.98737E-01	-.17854E+00
.51000E+01	.62500E+01	-.74800E+00	.10888E+01	-.99096E-01	.30218E-01	-.19388E+00
.36000E+01	.62500E+01	-.75360E+00	.10924E+01	-.10116E+00	-.30229E-01	-.20194E+00
.24000E+01	.62500E+01	-.69600E+00	.10914E+01	-.99476E-01	-.87124E-01	-.20590E+00
.15600E+01	.62500E+01	-.60930E+00	.10751E+01	-.92711E-01	-.14347E+00	-.18285E+00
.96000E+00	.62500E+01	-.51250E+00	.10493E+01	-.80486E-01	-.21214E+00	-.15102E+00
.54000E+00	.62500E+01	-.40770E+00	.98267E+00	-.62599E-01	-.31212E+00	-.66705E-01
.24000E+00	.62500E+01	-.28220E+00	.75148E+00	-.39446E-01	-.47380E+00	.21199E+00
.60000E-01	.62500E+01	-.10650E+00	-.96649E-01	-.17758E-01	-.32211E+00	.93683E+00
.60000E-01	.62500E+01	.11770E+00	.31450E+00	-.48160E-02	.95993E+00	-.20370E-01
.24000E+00	.62500E+01	.30530E+00	.12712E+01	.67476E-03	.70445E+00	-.10369E+01
.54000E+00	.62500E+01	.42710E+00	.13638E+01	.45642E-02	.37010E+00	-.93629E+00
.96000E+00	.62500E+01	.52050E+00	.13219E+01	.11971E-01	.21806E+00	-.75645E+00
.15600E+01	.62500E+01	.60210E+00	.12807E+01	.21018E-01	.13718E+00	-.63268E+00
.24000E+01	.62500E+01	.67440E+00	.12535E+01	.28751E-01	.81396E-01	-.55800E+00
.36000E+01	.62500E+01	.72370E+00	.12325E+01	.34459E-01	.29708E-01	-.50442E+00
.51000E+01	.62500E+01	.72770E+00	.12144E+01	.38086E-01	-.16318E-01	-.46238E+00
.64200E+01	.62500E+01	.68790E+00	.11967E+01	.38443E-01	-.53016E-01	-.42451E+00
.75000E+01	.62500E+01	.61980E+00	.11832E+01	.35822E-01	-.84701E-01	-.39814E+00
.85800E+01	.62500E+01	.52010E+00	.11600E+01	.30819E-01	-.11697E+00	-.35229E+00
.96600E+01	.62500E+01	.38420E+00	.11197E+01	.24989E-01	-.15071E+00	-.27238E+00
.10500E+02	.62500E+01	.25410E+00	.10682E+01	.22735E-01	-.17310E+00	-.16965E+00
.11040E+02	.62500E+01	.15490E+00	.10230E+01	.23002E-01	-.17503E+00	-.77298E-01
.11520E+02	.62500E+01	.55750E-01	.10002E+01	.24958E-01	-.17042E+00	-.29954E-01
.12000E+02	.62500E+01	-.75450E-01	.85784E+00	.26851E-01	-.23163E+00	.21250E+00

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.12000E+02	.43750E+01	-.13060E+00	.10266E+01	-.50799E-01	-.95717E-01	.28548E+00
.11520E+02	.43750E+01	-.82050E-01	.95695E+00	-.58137E-01	-.85860E-01	.42616E+00
.11040E+02	.43750E+01	-.54850E-01	.90554E+00	-.66227E-01	.48985E-02	.53078E+00
.10500E+02	.43750E+01	-.72950E-01	.90236E+00	-.78613E-01	.69296E-01	.52995E+00
.96600E+01	.43750E+01	-.17120E+00	.93470E+00	-.99952E-01	.13101E+00	.45161E+00
.85800E+01	.43750E+01	-.34590E+00	.10022E+01	-.12132E+00	.17195E+00	.30010E+00
.75000E+01	.43750E+01	-.53000E+00	.10974E+01	-.13447E+00	.16864E+00	.97793E-01
.64200E+01	.43750E+01	-.67010E+00	.11790E+01	-.14262E+00	.10889E+00	-.69619E-01
.51000E+01	.43750E+01	-.74800E+00	.11991E+01	-.15052E+00	.33694E-01	-.10819E+00
.36000E+01	.43750E+01	-.75360E+00	.12134E+01	-.15835E+00	-.33364E-01	-.14196E+00
.24000E+01	.43750E+01	-.69600E+00	.12268E+01	-.16100E+00	-.97478E-01	-.17909E+00
.15600E+01	.43750E+01	-.60930E+00	.12346E+01	-.15706E+00	-.16318E+00	-.20962E+00
.96000E+00	.43750E+01	-.51250E+00	.12471E+01	-.14668E+00	-.24752E+00	-.26546E+00
.54000E+00	.43750E+01	-.40770E+00	.12417E+01	-.13182E+00	-.38079E+00	-.32453E+00
.24000E+00	.43750E+01	-.28220E+00	.11012E+01	-.11516E+00	-.64047E+00	-.26168E+00
.60000E-01	.43750E+01	-.10650E+00	.20729E+00	-.99869E-01	-.77450E+00	.70491E+00
.60000E-01	.43750E+01	.11770E+00	.39352E-01	-.88229E-01	.60891E+00	.99497E+00
.24000E+00	.43750E+01	.30530E+00	.10906E+01	-.81806E-01	.64197E+00	-.23607E+00
.54000E+00	.43750E+01	.42710E+00	.13102E+01	-.80027E-01	.36630E+00	-.46334E+00
.96000E+00	.43750E+01	.52050E+00	.13356E+01	-.78584E-01	.22445E+00	-.44851E+00
.15600E+01	.43750E+01	.60210E+00	.13303E+01	-.75653E-01	.14433E+00	-.40838E+00
.24000E+01	.43750E+01	.67440E+00	.13241E+01	-.70928E-01	.86809E-01	-.38022E+00
.36000E+01	.43750E+01	.72370E+00	.13146E+01	-.63626E-01	.31847E-01	-.34936E+00
.51000E+01	.43750E+01	.72770E+00	.13088E+01	-.51463E-01	-.18009E-01	-.33215E+00
.64200E+01	.43750E+01	.68790E+00	.13066E+01	-.43706E-01	-.58545E-01	-.32721E+00
.75000E+01	.43750E+01	.61980E+00	.13057E+01	-.42202E-01	-.94036E-01	-.32835E+00
.85800E+01	.43750E+01	.52010E+00	.12961E+01	-.43131E-01	-.13118E+00	-.31159E+00
.96600E+01	.43750E+01	.38420E+00	.12700E+01	-.44153E-01	-.17133E+00	-.26135E+00
.10500E+02	.43750E+01	.25410E+00	.12225E+01	-.44334E-01	-.19866E+00	-.16145E+00
.11040E+02	.43750E+01	.15490E+00	.11760E+01	-.44479E-01	-.20525E+00	-.59381E-01
.11520E+02	.43750E+01	.55750E-01	.11433E+01	-.44302E-01	-.20234E+00	.12698E-01
.12000E+02	.43750E+01	-.75450E-01	.99632E+00	-.45440E-01	-.26892E+00	.28533E+00

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.12000E+02	.23000E+01	-.13060E+00	.10289E+01	-.84542E-01	-.94431E-01	.21677E+00
.11520E+02	.23000E+01	-.82050E-01	.94237E+00	-.64564E-01	-.81781E-01	.38693E+00
.11040E+02	.23000E+01	-.54850E-01	.87689E+00	-.57217E-01	.86670E-02	.51192E+00
.10500E+02	.23000E+01	-.72950E-01	.86342E+00	-.57020E-01	.69754E-01	.53049E+00
.96600E+01	.23000E+01	-.17120E+00	.89163E+00	-.60907E-01	.12534E+00	.47289E+00
.85800E+01	.23000E+01	-.34590E+00	.95779E+00	-.68250E-01	.16302E+00	.34637E+00
.75000E+01	.23000E+01	-.53000E+00	.10577E+01	-.77212E-01	.16200E+00	.15520E+00
.64200E+01	.23000E+01	-.67010E+00	.11444E+01	-.83685E-01	.10572E+00	-.99229E-02
.51000E+01	.23000E+01	-.74800E+00	.11639E+01	-.90597E-01	.32787E-01	-.43805E-01
.36000E+01	.23000E+01	-.75360E+00	.11744E+01	-.10359E+00	-.32339E-01	-.74969E-01
.24000E+01	.23000E+01	-.69600E+00	.11833E+01	-.11849E+00	-.94199E-01	-.11436E+00
.15600E+01	.23000E+01	-.60930E+00	.11774E+01	-.13657E+00	-.15624E+00	-.12969E+00
.96000E+00	.23000E+01	-.51250E+00	.11762E+01	-.18279E+00	-.23490E+00	-.18027E+00
.54000E+00	.23000E+01	-.40770E+00	.11938E+01	-.24101E+00	-.36654E+00	-.32625E+00
.24000E+00	.23000E+01	-.28220E+00	.11247E+01	-.28367E+00	-.64443E+00	-.46827E+00
.60000E-01	.23000E+01	-.10650E+00	.32128E+00	-.27312E+00	-.90510E+00	.24564E+00
.60000E-01	.23000E+01	.11770E+00	-.45725E-01	-.16364E+00	.45804E+00	.10228E+01
.24000E+00	.23000E+01	.30530E+00	.10332E+01	-.12313E+00	.60877E+00	-.23169E+00
.54000E+00	.23000E+01	.42710E+00	.12660E+01	-.12441E+00	.35176E+00	-.50846E+00
.96000E+00	.23000E+01	.52050E+00	.12843E+01	-.12244E+00	.21385E+00	-.48566E+00
.15600E+01	.23000E+01	.60210E+00	.12698E+01	-.11793E+00	.13925E+00	-.43099E+00
.24000E+01	.23000E+01	.67440E+00	.12506E+01	-.12020E+00	.86492E-01	-.37867E+00
.36000E+01	.23000E+01	.72370E+00	.12202E+01	-.11130E+00	.32962E-01	-.30065E+00
.51000E+01	.23000E+01	.72770E+00	.11947E+01	-.66004E-01	-.16665E-01	-.22926E+00
.64200E+01	.23000E+01	.68790E+00	.12157E+01	-.42807E-01	-.56644E-01	-.26916E+00
.75000E+01	.23000E+01	.61980E+00	.12266E+01	-.38980E-01	-.89014E-01	-.28803E+00
.85800E+01	.23000E+01	.52010E+00	.12245E+01	-.38512E-01	-.12332E+00	-.27622E+00
.96600E+01	.23000E+01	.38420E+00	.12093E+01	-.42776E-01	-.16256E+00	-.23659E+00
.10500E+02	.23000E+01	.25410E+00	.11697E+01	-.45356E-01	-.18986E+00	-.14307E+00
.11040E+02	.23000E+01	.15490E+00	.11338E+01	-.49801E-01	-.19810E+00	-.57229E-01
.11520E+02	.23000E+01	.55750E-01	.11140E+01	-.59909E-01	-.19274E+00	-.33143E-02
.12000E+02	.23000E+01	-.75450E-01	.10039E+01	-.83024E-01	-.24874E+00	.21047E+00

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.12000E+02	.00000E+00	-.13060E+00	.98188E+00	-.53406E+00	-.90515E-01	-.50980E-01
.11520E+02	.00000E+00	-.82050E-01	.87341E+00	-.50354E+00	-.77787E-01	.16912E+00
.11040E+02	.00000E+00	-.54850E-01	.83850E+00	-.46869E+00	.41388E-02	.26151E+00
.10500E+02	.00000E+00	-.72950E-01	.84063E+00	-.41912E+00	.64327E-01	.29718E+00
.96600E+01	.00000E+00	-.17120E+00	.88133E+00	-.33736E+00	.12485E+00	.28641E+00
.85800E+01	.00000E+00	-.34590E+00	.95347E+00	-.25513E+00	.16497E+00	.20951E+00
.75000E+01	.00000E+00	-.53000E+00	.10475E+01	-.20343E+00	.16136E+00	.67757E-01
.64200E+01	.00000E+00	-.67010E+00	.11194E+01	-.17365E+00	.10351E+00	-.44651E-01
.51000E+01	.00000E+00	-.74800E+00	.11128E+01	-.15218E+00	.31552E-01	-.11957E-01
.36000E+01	.00000E+00	-.75360E+00	.10833E+01	-.12244E+00	-.30011E-01	.49881E-01
.24000E+01	.00000E+00	-.69600E+00	.10591E+01	-.12823E+00	-.85900E-01	.76754E-01
.15600E+01	.00000E+00	-.60930E+00	.10359E+01	-.15678E+00	-.14104E+00	.86163E-01
.96000E+00	.00000E+00	-.51250E+00	.10315E+01	-.16544E+00	-.21172E+00	.49659E-01
.54000E+00	.00000E+00	-.40770E+00	.10440E+01	-.17244E+00	-.32894E+00	-.62388E-01
.24000E+00	.00000E+00	-.28220E+00	.79546E+00	-.18105E+00	-.49661E+00	.22526E+00
.60000E-01	.00000E+00	-.10650E+00	-.20331E+00	-.20580E+00	-.19042E+00	.10513E+01
.60000E-01	.00000E+00	.11770E+00	.53385E+00	-.30577E+00	.12949E+01	-.82946E+00
.24000E+00	.00000E+00	.30530E+00	.16098E+01	-.48131E+00	.85717E+00	-.18948E+01
.54000E+00	.00000E+00	.42710E+00	.16389E+01	-.64070E+00	.43205E+00	-.15392E+01
.96000E+00	.00000E+00	.52050E+00	.15293E+01	-.78481E+00	.24761E+00	-.11715E+01
.15600E+01	.00000E+00	.60210E+00	.13946E+01	-.10088E+00	.15014E+00	-.90622E+00
.24000E+01	.00000E+00	.67440E+00	.13127E+01	-.13609E+00	.89188E-01	-.70348E+00
.36000E+01	.00000E+00	.72370E+00	.12406E+01	-.17886E+00	.33202E-01	-.54204E+00
.51000E+01	.00000E+00	.72770E+00	.12201E+01	-.95713E+00	-.17097E-01	-.65380E+00
.64200E+01	.00000E+00	.68790E+00	.12032E+01	-.80235E+00	-.56022E-01	-.62338E+00
.75000E+01	.00000E+00	.61980E+00	.11984E+01	-.65392E+00	-.87141E-01	-.58705E+00
.85800E+01	.00000E+00	.52010E+00	.11813E+01	-.54580E+00	-.11965E+00	-.52747E+00
.96600E+01	.00000E+00	.38420E+00	.11472E+01	-.48699E+00	-.15520E+00	-.44577E+00
.10500E+02	.00000E+00	.25410E+00	.11110E+01	-.50409E+00	-.18158E+00	-.37883E+00
.11040E+02	.00000E+00	.15490E+00	.10815E+01	-.52323E+00	-.19357E+00	-.32182E+00
.11520E+02	.00000E+00	.55750E-01	.10778E+01	-.54471E+00	-.20136E+00	-.31529E+00
.12000E+02	.00000E+00	-.75450E-01	.94066E+00	-.55226E+00	-.26626E+00	-.62546E-01

1	9	32				
.12000E+02	-.23000E+01	-.13060E+00	.92679E+00	-.69174E-01	-.86174E-01	.45975E+00
.11520E+02	-.23000E+01	-.82050E-01	.83812E+00	-.57520E-01	-.75375E-01	.61853E+00
.11040E+02	-.23000E+01	-.54850E-01	.85401E+00	-.56154E-01	.39874E-02	.59295E+00
.10500E+02	-.23000E+01	-.72950E-01	.88564E+00	-.60249E-01	.65568E-01	.53078E+00
.96600E+01	-.23000E+01	-.17120E+00	.94540E+00	-.66565E-01	.12993E+00	.41002E+00
.85800E+01	-.23000E+01	-.34590E+00	.10186E+01	-.73814E-01	.17304E+00	.26040E+00
.75000E+01	-.23000E+01	-.53000E+00	.11036E+01	-.80545E-01	.16865E+00	.92641E-01
.64200E+01	-.23000E+01	-.67010E+00	.11621E+01	-.82277E-01	.10730E+00	-.13368E-01
.51000E+01	-.23000E+01	-.74800E+00	.11406E+01	-.77713E-01	.32267E-01	.45483E-01
.36000E+01	-.23000E+01	-.75360E+00	.11115E+01	-.66477E-01	-.31109E-01	.10580E+00
.24000E+01	-.23000E+01	-.69600E+00	.10739E+01	-.51662E-01	-.87664E-01	.17328E+00
.15600E+01	-.23000E+01	-.60930E+00	.10153E+01	-.40363E-01	-.13997E+00	.27517E+00
.96000E+00	-.23000E+01	-.51250E+00	.93777E+00	-.54579E-01	-.19881E+00	.39648E+00
.54000E+00	-.23000E+01	-.40770E+00	.76169E+00	-.92341E-01	-.26555E+00	.65738E+00
.24000E+00	-.23000E+01	-.28220E+00	.28675E+00	-.14226E+00	-.28218E+00	.11603E+01
.60000E-01	-.23000E+01	-.10650E+00	-.81632E+00	-.17818E+00	.60834E+00	.21924E+00
.60000E-01	-.23000E+01	.11770E+00	.11733E+01	-.90045E-01	.22511E+01	-.35673E+01
.24000E+00	-.23000E+01	.30530E+00	.22592E+01	-.13617E-01	.11440E+01	-.35642E+01
.54000E+00	-.23000E+01	.42710E+00	.20482E+01	.24753E-02	.52165E+00	-.25320E+01
.96000E+00	-.23000E+01	.52050E+00	.17949E+01	.15663E-01	.28479E+00	-.17487E+01
.15600E+01	-.23000E+01	.60210E+00	.16063E+01	.26702E-01	.17145E+00	-.12172E+01
.24000E+01	-.23000E+01	.67440E+00	.14783E+01	.25151E-01	.98860E-01	-.87443E+00
.36000E+01	-.23000E+01	.72370E+00	.13719E+01	.25146E-01	.35814E-01	-.60161E+00
.51000E+01	-.23000E+01	.72770E+00	.12873E+01	-.13008E-01	-.17985E-01	-.39163E+00
.64200E+01	-.23000E+01	.68790E+00	.12615E+01	-.29608E-01	-.57977E-01	-.32651E+00
.75000E+01	-.23000E+01	.61980E+00	.12454E+01	-.40122E-01	-.89842E-01	-.28433E+00
.85800E+01	-.23000E+01	.52010E+00	.12160E+01	-.44415E-01	-.12255E+00	-.21057E+00
.96600E+01	-.23000E+01	.38420E+00	.11582E+01	-.50787E-01	-.15572E+00	-.75748E-01
.10500E+02	-.23000E+01	.25410E+00	.11077E+01	-.51074E-01	-.17844E+00	.39248E-01
.11040E+02	-.23000E+01	.15490E+00	.10653E+01	-.50391E-01	-.17735E+00	.13853E+00
.11520E+02	-.23000E+01	.55750E-01	.10706E+01	-.53951E-01	-.16811E+00	.13906E+00
.12000E+02	-.23000E+01	-.75450E-01	.90605E+00	-.68262E-01	-.21965E+00	.45314E+00

12000E+02	-.43750E+01	-.13060E+00	.97689E+00	-.46965E-01	-.91051E-01	.42080E+00
.11520E+02	-.43750E+01	-.82050E-01	.87737E+00	-.55559E-01	-.79591E-01	.61169E+00
.11040E+02	-.43750E+01	-.54850E-01	.87883E+00	-.64416E-01	.34599E-02	.61596E+00
.10500E+02	-.43750E+01	-.72950E-01	.90400E+00	-.77512E-01	.67020E-01	.56357E+00
.96600E+01	-.43750E+01	-.17120E+00	.96296E+00	-.99335E-01	.13315E+00	.43252E+00
.85800E+01	-.43750E+01	-.34590E+00	.10336E+01	-.12016E+00	.17679E+00	.26950E+00
.75000E+01	-.43750E+01	-.53000E+00	.11201E+01	-.13247E+00	.17197E+00	.81279E-01
.64200E+01	-.43750E+01	-.67010E+00	.11820E+01	-.13942E+00	.10929E+00	-.43997E-01
.51000E+01	-.43750E+01	-.74800E+00	.11693E+01	-.14354E+00	.33008E-01	-.78718E-02
.36000E+01	-.43750E+01	-.75360E+00	.11461E+01	-.14484E+00	-.32025E-01	.44888E-01
.24000E+01	-.43750E+01	-.69600E+00	.11126E+01	-.14436E+00	-.90607E-01	.11442E+00
.15600E+01	-.43750E+01	-.60930E+00	.10440E+01	-.14193E+00	-.14399E+00	.25071E+00
.96000E+00	-.43750E+01	-.51250E+00	.94122E+00	-.13574E+00	-.20118E+00	.43938E+00
.54000E+00	-.43750E+01	-.40770E+00	.75232E+00	-.12478E+00	-.26645E+00	.74196E+00
.24000E+00	-.43750E+01	-.28220E+00	.30777E+00	-.10978E+00	-.29746E+00	.12348E+01
.60000E-01	-.43750E+01	-.10650E+00	-.68749E+00	-.92267E-01	.41601E+00	.74442E+00
.60000E-01	-.43750E+01	.11770E+00	.93771E+00	-.72763E-01	.19299E+01	-.24727E+01
.24000E+00	-.43750E+01	.30530E+00	.20753E+01	-.54597E-01	.10709E+01	-.29552E+01
.54000E+00	-.43750E+01	.42710E+00	.19804E+01	-.39705E-01	.50974E+00	-.22051E+01
.96000E+00	-.43750E+01	.52050E+00	.17899E+01	-.23653E-01	.28541E+00	-.15828E+01
.15600E+01	-.43750E+01	.60210E+00	.16405E+01	-.65813E-02	.17509E+00	-.11490E+01
.24000E+01	-.43750E+01	.67440E+00	.15306E+01	.65483E-02	.10176E+00	-.84644E+00
.36000E+01	-.43750E+01	.72370E+00	.14455E+01	.82010E-02	.37378E-01	-.62122E+00
.51000E+01	-.43750E+01	.72770E+00	.13791E+01	-.61960E-02	-.19002E-01	-.45420E+00
.64200E+01	-.43750E+01	.68790E+00	.13318E+01	-.20338E-01	-.60908E-01	-.34129E+00
.75000E+01	-.43750E+01	.61980E+00	.13038E+01	-.29684E-01	-.93820E-01	-.27854E+00
.85800E+01	-.43750E+01	.52010E+00	.12645E+01	-.36004E-01	-.12728E+00	-.19263E+00
.96600E+01	-.43750E+01	.38420E+00	.12025E+01	-.39242E-01	-.16189E+00	-.61267E-01
.10500E+02	-.43750E+01	.25410E+00	.11434E+01	-.40001E-01	-.18500E+00	.60692E-01
.11040E+02	-.43750E+01	.15490E+00	.11037E+01	-.40297E-01	-.18254E+00	.14552E+00
.11520E+02	-.43750E+01	.55750E-01	.11170E+01	-.40042E-01	-.17539E+00	.11698E+00
.12000E+02	-.43750E+01	-.75450E-01	.95135E+00	-.40907E-01	-.24462E+00	.42089E+00
1	11	32				
.12000E+02	-.62500E+01	-.13060E+00	.90542E+00	.19512E-01	-.82313E-01	.17494E+00
.11520E+02	-.62500E+01	-.82050E-01	.80894E+00	-.51062E-02	-.69791E-01	.34804E+00
.11040E+02	-.62500E+01	-.54850E-01	.79413E+00	-.25033E-01	.68285E-02	.37727E+00
.10500E+02	-.62500E+01	-.72950E-01	.80559E+00	-.50162E-01	.61493E-01	.35222E+00
.96600E+01	-.62500E+01	-.17120E+00	.84913E+00	-.80402E-01	.11639E+00	.26319E+00
.85800E+01	-.62500E+01	-.34590E+00	.90870E+00	-.95849E-01	.15397E+00	.14263E+00
.75000E+01	-.62500E+01	-.53000E+00	.99248E+00	-.10120E+00	.15175E+00	-.18256E-01
.64200E+01	-.62500E+01	-.67010E+00	.10590E+01	-.10611E+00	.97417E-01	-.14101E+00
.51000E+01	-.62500E+01	-.74800E+00	.10605E+01	-.11266E+00	.29568E-01	-.13710E+00
.36000E+01	-.62500E+01	-.75360E+00	.10472E+01	-.11970E+00	-.29306E-01	-.11106E+00
.24000E+01	-.62500E+01	-.69600E+00	.10220E+01	-.12325E+00	-.82937E-01	-.66179E-01
.15600E+01	-.62500E+01	-.60930E+00	.97179E+00	-.12171E+00	-.13305E+00	.23150E-01
.96000E+00	-.62500E+01	-.51250E+00	.90218E+00	-.11352E+00	-.18977E+00	.13836E+00
.54000E+00	-.62500E+01	-.40770E+00	.77876E+00	-.96701E-01	-.26418E+00	.32062E+00
.24000E+00	-.62500E+01	-.28220E+00	.47065E+00	-.70203E-01	-.35226E+00	.67627E+00
.60000E-01	-.62500E+01	-.10650E+00	-.37097E+00	-.42035E-01	.42802E-01	.90589E+00
.60000E-01	-.62500E+01	.11770E+00	.58222E+00	-.22680E-01	.13540E+01	-.10893E+01
.24000E+00	-.62500E+01	.30530E+00	.15983E+01	-.11172E-01	.84763E+00	-.19682E+01
.54000E+00	-.62500E+01	.42710E+00	.16246E+01	.51948E-03	.42580E+00	-.16228E+01
.96000E+00	-.62500E+01	.52050E+00	.15277E+01	.19082E-01	.24351E+00	-.12762E+01
.15600E+01	-.62500E+01	.60210E+00	.14383E+01	.40503E-01	.15202E+00	-.10207E+01
.24000E+01	-.62500E+01	.67440E+00	.13712E+01	.58297E-01	.91520E-01	-.84342E+00
.36000E+01	-.62500E+01	.72370E+00	.13172E+01	.67790E-01	.34230E-01	-.70702E+00
.51000E+01	-.62500E+01	.72770E+00	.12715E+01	.66274E-01	-.17006E-01	-.59765E+00
.64200E+01	-.62500E+01	.68790E+00	.12343E+01	.59419E-01	-.55898E-01	-.51282E+00
.75000E+01	-.62500E+01	.61980E+00	.12100E+01	.52033E-01	-.86325E-01	-.46027E+00
.85800E+01	-.62500E+01	.52010E+00	.11764E+01	.44633E-01	-.11721E+00	-.38980E+00
.96600E+01	-.62500E+01	.38420E+00	.11239E+01	.38276E-01	-.14962E+00	-.28192E+00
.10500E+02	-.62500E+01	.25410E+00	.10706E+01	.35203E-01	-.17106E+00	-.17467E+00
.11040E+02	-.62500E+01	.15490E+00	.10333E+01	.34035E-01	-.16825E+00	-.96614E-01
.11520E+02	-.62500E+01	.55750E-01	.10392E+01	.34807E-01	-.16120E+00	-.10640E+00
.12000E+02	-.62500E+01	-.75450E-01	.88056E+00	.35618E-01	-.22714E+00	.17360E+00
1	12	32				

.12000E+02	-.78130E+01	-.13060E+00	.89860E+00	.14657E-01	-.81875E-01	.18777E+00
.11520E+02	-.78130E+01	-.82050E-01	.81258E+00	-.11028E-02	-.70152E-01	.34186E+00
.11040E+02	-.78130E+01	-.54850E-01	.79845E+00	-.14342E-01	.67479E-02	.37051E+00
.10500E+02	-.78130E+01	-.72950E-01	.81144E+00	-.31180E-01	.61691E-01	.34393E+00
.96600E+01	-.78130E+01	-.17120E+00	.85472E+00	-.52321E-01	.11684E+00	.25710E+00
.85800E+01	-.78130E+01	-.34590E+00	.91569E+00	-.63194E-01	.15485E+00	.13466E+00
.75000E+01	-.78130E+01	-.53000E+00	.99758E+00	-.65606E-01	.15238E+00	-.22655E-01
.64200E+01	-.78130E+01	-.67010E+00	.10619E+01	-.66579E-01	.97644E-01	-.14042E+00
.51000E+01	-.78130E+01	-.74800E+00	.10639E+01	-.67935E-01	.29636E-01	-.13623E+00
.36000E+01	-.78130E+01	-.75360E+00	.10521E+01	-.69063E-01	-.29403E-01	-.11172E+00
.24000E+01	-.78130E+01	-.69600E+00	.10301E+01	-.67885E-01	-.83430E-01	-.72438E-01
.15600E+01	-.78130E+01	-.60930E+00	.98816E+00	-.64068E-01	-.13470E+00	.12980E-02
.96000E+00	-.78130E+01	-.51250E+00	.93177E+00	-.57297E-01	-.19428E+00	.91296E-01
.54000E+00	-.78130E+01	-.40770E+00	.82732E+00	-.46656E-01	-.27561E+00	.24095E+00
.24000E+00	-.78130E+01	-.28220E+00	.54414E+00	-.31868E-01	-.38407E+00	.57494E+00
.60000E-01	-.78130E+01	-.10650E+00	-.29566E+00	-.17426E-01	-.57357E-01	.96184E+00
.60000E-01	-.78130E+01	.11770E+00	.50657E+00	-.88108E-02	.12426E+01	-.76142E+00
.24000E+00	-.78130E+01	.30530E+00	.15027E+01	-.58043E-02	.80572E+00	-.16905E+01
.54000E+00	-.78130E+01	.42710E+00	.15468E+01	-.35833E-02	.40972E+00	-.14141E+01
.96000E+00	-.78130E+01	.52050E+00	.14682E+01	.32767E-02	.23710E+00	-.11228E+01
.15600E+01	-.78130E+01	.60210E+00	.13972E+01	.14181E-01	.14693E+00	-.91612E+00
.24000E+01	-.78130E+01	.67440E+00	.13454E+01	.25775E-01	.86033E-01	-.77721E+00
.36000E+01	-.78130E+01	.72370E+00	.13031E+01	.34965E-01	.30966E-01	-.67020E+00
.51000E+01	-.78130E+01	.72770E+00	.12660E+01	.38524E-01	-.16948E-01	-.58212E+00
.64200E+01	-.78130E+01	.68790E+00	.12340E+01	.37133E-01	-.54348E-01	-.50988E+00
.75000E+01	-.78130E+01	.61980E+00	.12110E+01	.33898E-01	-.86222E-01	-.46111E+00
.85800E+01	-.78130E+01	.52010E+00	.11782E+01	.30067E-01	-.11830E+00	-.39299E+00
.96600E+01	-.78130E+01	.38420E+00	.11274E+01	.26456E-01	-.15139E+00	-.28936E+00
.10500E+02	-.78130E+01	.25410E+00	.10758E+01	.24663E-01	-.17398E+00	-.18611E+00
.11040E+02	-.78130E+01	.15490E+00	.10362E+01	.24032E-01	-.17610E+00	-.10456E+00
.11520E+02	-.78130E+01	.55750E-01	.10308E+01	.24787E-01	-.17391E+00	-.92843E-01
.12000E+02	-.78130E+01	-.75450E-01	.87167E+00	.25113E-01	-.23556E+00	.18620E+00

1 13 32

.12000E+02	-.12500E+02	-.13060E+00	.90012E+00	.14091E-01	-.82324E-01	.18490E+00
.11520E+02	-.12500E+02	-.82050E-01	.81938E+00	.14024E-01	-.70919E-01	.32998E+00
.11040E+02	-.12500E+02	-.54850E-01	.80060E+00	.13627E-01	.69040E-02	.36693E+00
.10500E+02	-.12500E+02	-.72950E-01	.81184E+00	.12499E-01	.62221E-01	.34405E+00
.96600E+01	-.12500E+02	-.17120E+00	.85391E+00	.98629E-02	.11709E+00	.26119E+00
.85800E+01	-.12500E+02	-.34590E+00	.91562E+00	.61457E-02	.15482E+00	.13882E+00
.75000E+01	-.12500E+02	-.53000E+00	.99830E+00	.27231E-02	.15236E+00	-.19797E-01
.64200E+01	-.12500E+02	-.67010E+00	.10639E+01	.15248E-03	.97746E-01	-.14028E+00
.51000E+01	-.12500E+02	-.74800E+00	.10686E+01	-.18501E-02	.29735E-01	-.14143E+00
.36000E+01	-.12500E+02	-.75360E+00	.10609E+01	-.29466E-02	-.29590E-01	-.12538E+00
.24000E+01	-.12500E+02	-.69600E+00	.10452E+01	-.28585E-02	-.84335E-01	-.98939E-01
.15600E+01	-.12500E+02	-.60930E+00	.10113E+01	-.21383E-02	-.13705E+00	-.41449E-01
.96000E+00	-.12500E+02	-.51250E+00	.96466E+00	-.12904E-02	-.19930E+00	.29764E-01
.54000E+00	-.12500E+02	-.40770E+00	.87283E+00	-.49374E-03	-.28634E+00	.15771E+00
.24000E+00	-.12500E+02	-.28220E+00	.60965E+00	.23602E-03	-.41240E+00	.47154E+00
.60000E-01	-.12500E+02	-.10650E+00	-.22636E+00	.10637E-02	-.14951E+00	.98132E+00
.60000E-01	-.12500E+02	.11770E+00	.43471E+00	.20494E-02	.11367E+01	-.46673E+00
.24000E+00	-.12500E+02	.30530E+00	.14141E+01	.29444E-02	.76686E+00	-.14364E+01
.54000E+00	-.12500E+02	.42710E+00	.14769E+01	.36444E-02	.39452E+00	-.12289E+01
.96000E+00	-.12500E+02	.52050E+00	.14126E+01	.43658E-02	.22980E+00	-.98124E+00
.15600E+01	-.12500E+02	.60210E+00	.13529E+01	.53703E-02	.14317E+00	-.80662E+00
.24000E+01	-.12500E+02	.67440E+00	.13114E+01	.69962E-02	.84273E-01	-.69436E+00
.36000E+01	-.12500E+02	.72370E+00	.12794E+01	.95927E-02	.30519E-01	-.61277E+00
.51000E+01	-.12500E+02	.72770E+00	.12518E+01	.12790E-01	-.16768E-01	-.54755E+00
.64200E+01	-.12500E+02	.68790E+00	.12264E+01	.15083E-01	-.54044E-01	-.49124E+00
.75000E+01	-.12500E+02	.61980E+00	.12069E+01	.16324E-01	-.85986E-01	-.45095E+00
.85800E+01	-.12500E+02	.52010E+00	.11771E+01	.17033E-01	-.11829E+00	-.39001E+00
.96600E+01	-.12500E+02	.38420E+00	.11296E+01	.17182E-01	-.15171E+00	-.29372E+00
.10500E+02	-.12500E+02	.25410E+00	.10780E+01	.16888E-01	-.17437E+00	-.19046E+00
.11040E+02	-.12500E+02	.15490E+00	.10369E+01	.16484E-01	-.17708E+00	-.10599E+00
.11520E+02	-.12500E+02	.55750E-01	.10263E+01	.15922E-01	-.17454E+00	-.83486E-01
.12000E+02	-.12500E+02	-.75450E-01	.87360E+00	.14856E-01	-.23511E+00	.18339E+00

1 14 32

.12000E+02	-.18190E+02	-.13060E+00	.91965E+00	.13207E-01	-.86399E-01	.14796E+00
.11520E+02	-.18190E+02	-.82050E-01	.84473E+00	.15015E-01	-.77220E-01	.28519E+00
.11040E+02	-.18190E+02	-.54850E-01	.81990E+00	.16294E-01	.25582E-02	.33425E+00
.10500E+02	-.18190E+02	-.72950E-01	.82524E+00	.15839E-01	.61767E-01	.32117E+00
.96600E+01	-.18190E+02	-.17120E+00	.86243E+00	.12273E-01	.12058E+00	.24519E+00
.85800E+01	-.18190E+02	-.34590E+00	.92322E+00	.68538E-02	.15861E+00	.12340E+00
.75000E+01	-.18190E+02	-.53000E+00	.10043E+01	.15661E-02	.15403E+00	-.32232E-01
.64200E+01	-.18190E+02	-.67010E+00	.10688E+01	-.40804E-02	.98298E-01	-.15048E+00
.51000E+01	-.18190E+02	-.74800E+00	.10720E+01	-.83665E-02	.29851E-01	-.14865E+00
.36000E+01	-.18190E+02	-.75360E+00	.10635E+01	-.13454E-01	-.29618E-01	-.13090E+00
.24000E+01	-.18190E+02	-.69600E+00	.10475E+01	-.18228E-01	-.84460E-01	-.10397E+00
.15600E+01	-.18190E+02	-.60930E+00	.10142E+01	-.23423E-01	-.13734E+00	-.47903E-01
.96000E+00	-.18190E+02	-.51250E+00	.97116E+00	-.27442E-01	-.20032E+00	.15992E-01
.54000E+00	-.18190E+02	-.40770E+00	.88633E+00	-.29148E-01	-.28955E+00	.13078E+00
.24000E+00	-.18190E+02	-.28220E+00	.63467E+00	-.29016E-01	-.42322E+00	.42823E+00
.60000E-01	-.18190E+02	-.10650E+00	-.19594E+00	-.28153E-01	-.18989E+00	.97947E+00
.60000E-01	-.18190E+02	.11770E+00	.39816E+00	-.27551E-01	.10828E+01	-.32482E+00
.24000E+00	-.18190E+02	.30530E+00	.13593E+01	-.27032E-01	.74273E+00	-.12817E+01
.54000E+00	-.18190E+02	.42710E+00	.14238E+01	-.25536E-01	.38294E+00	-.10907E+01
.96000E+00	-.18190E+02	.52050E+00	.13608E+01	-.21674E-01	.22306E+00	-.85230E+00
.15600E+01	-.18190E+02	.60210E+00	.13029E+01	-.14622E-01	.13896E+00	-.68552E+00
.24000E+01	-.18190E+02	.67440E+00	.12642E+01	-.56144E-02	.81880E-01	-.58248E+00
.36000E+01	-.18190E+02	.72370E+00	.12372E+01	.47795E-02	.29711E-01	-.51425E+00
.51000E+01	-.18190E+02	.72770E+00	.12170E+01	.16085E-01	-.16456E-01	-.46735E+00
.64200E+01	-.18190E+02	.68790E+00	.11996E+01	.23788E-01	-.53219E-01	-.43043E+00
.75000E+01	-.18190E+02	.61980E+00	.11893E+01	.28722E-01	-.85259E-01	-.41145E+00
.85800E+01	-.18190E+02	.52010E+00	.11702E+01	.30899E-01	-.11833E+00	-.37508E+00
.96600E+01	-.18190E+02	.38420E+00	.11335E+01	.30026E-01	-.15312E+00	-.30324E+00
.10500E+02	-.18190E+02	.25410E+00	.10882E+01	.27201E-01	-.17713E+00	-.21338E+00
.11040E+02	-.18190E+02	.15490E+00	.10485E+01	.23865E-01	-.18411E+00	-.13263E+00
.11520E+02	-.18190E+02	.55750E-01	.10326E+01	.20101E-01	-.18283E+00	-.99419E-01
.12000E+02	-.18190E+02	-.75450E-01	.89410E+00	.15268E-01	-.23434E+00	.14677E+00
2	1	16				
-.13580E+02	-.66330E-01	.13170E+01	.65960E-01	-.21918E+00	-.38085E+00	.84364E+00
-.13580E+02	-.12260E+00	.13550E+01	.82585E-01	-.39261E+00	-.24927E+00	.81538E+00
-.13580E+02	-.16020E+00	.14110E+01	.10694E+00	-.49390E+00	-.63210E-01	.77557E+00
-.13580E+02	-.17340E+00	.14770E+01	.13536E+00	-.51155E+00	.13996E+00	.73162E+00
-.13580E+02	-.16020E+00	.15440E+01	.16356E+00	-.45207E+00	.32577E+00	.69067E+00
-.13580E+02	-.12260E+00	.16000E+01	.18720E+00	-.33348E+00	.46996E+00	.65833E+00
-.13580E+02	-.66330E-01	.16370E+01	.20262E+00	-.17741E+00	.55970E+00	.63816E+00
-.13580E+02	-.55510E-15	.16510E+01	.20748E+00	-.36787E-02	.59032E+00	.63195E+00
-.13580E+02	.66330E-01	.16370E+01	.20108E+00	.17049E+00	.56074E+00	.64016E+00
-.13580E+02	.12260E+00	.16000E+01	.18437E+00	.32764E+00	.47142E+00	.66215E+00
-.13580E+02	.16020E+00	.15440E+01	.15988E+00	.44730E+00	.32678E+00	.69591E+00
-.13580E+02	.17340E+00	.14770E+01	.13139E+00	.50722E+00	.13991E+00	.73760E+00
-.13580E+02	.16020E+00	.14110E+01	.10329E+00	.48913E+00	-.64302E-01	.78139E+00
-.13580E+02	.12260E+00	.13550E+01	.79805E-01	.38681E+00	-.25078E+00	.82002E+00
-.13580E+02	.66330E-01	.13170E+01	.64460E-01	.21235E+00	-.38191E+00	.84622E+00
-.13580E+02	.27760E-15	.13040E+01	.59586E-01	-.36272E-02	-.42881E+00	.85469E+00
2	2	16				
-.13450E+02	-.12080E+00	.11860E+01	.42903E+00	-.23142E+00	-.41464E+00	.61257E+00
-.13450E+02	-.22320E+00	.12540E+01	.44612E+00	-.41053E+00	-.27139E+00	.57858E+00
-.13450E+02	-.29160E+00	.13570E+01	.47113E+00	-.50834E+00	-.73309E-01	.53101E+00
-.13450E+02	-.31570E+00	.14770E+01	.50047E+00	-.51573E+00	.13596E+00	.47875E+00
-.13450E+02	-.29160E+00	.15980E+01	.52938E+00	-.44550E+00	.31917E+00	.43053E+00
-.13450E+02	-.22320E+00	.17000E+01	.55372E+00	-.32172E+00	.45437E+00	.39273E+00
-.13450E+02	-.12080E+00	.17690E+01	.56956E+00	-.16868E+00	.53477E+00	.36939E+00
-.13450E+02	.43020E-15	.17930E+01	.57463E+00	-.36988E-02	.56163E+00	.36228E+00
-.13450E+02	.12080E+00	.17690E+01	.56783E+00	.16197E+00	.53639E+00	.37196E+00
-.13450E+02	.22320E+00	.17000E+01	.55054E+00	.31668E+00	.45662E+00	.39763E+00
-.13450E+02	.29160E+00	.15980E+01	.52525E+00	.44210E+00	.32072E+00	.43725E+00
-.13450E+02	.31570E+00	.14770E+01	.49605E+00	.51300E+00	.13587E+00	.48642E+00
-.13450E+02	.29160E+00	.13570E+01	.46709E+00	.50493E+00	-.74997E-01	.53846E+00
-.13450E+02	.22320E+00	.12540E+01	.44306E+00	.40554E+00	-.27370E+00	.58452E+00
-.13450E+02	.12080E+00	.11860E+01	.42738E+00	.22486E+00	-.41625E+00	.61587E+00
-.13450E+02	-.14850E-14	.11620E+01	.42257E+00	-.36036E-02	-.46753E+00	.62590E+00

2	3	16					
-.13110E+02	-.20510E+00	.98220E+00	.61598E+00	-.21628E+00	-.37887E+00	.44196E+00	
-.13110E+02	-.37890E+00	.10980E+01	.63025E+00	-.37965E+00	-.24164E+00	.41038E+00	
-.13110E+02	-.49510E+00	.12720E+01	.65119E+00	-.46282E+00	-.55638E-01	.36677E+00	
-.13110E+02	-.53590E+00	.14770E+01	.67560E+00	-.46003E+00	.13491E+00	.31993E+00	
-.13110E+02	-.49510E+00	.16820E+01	.69990E+00	-.38793E+00	.29438E+00	.27768E+00	
-.13110E+02	-.37890E+00	.18560E+01	.72019E+00	-.27385E+00	.40545E+00	.24563E+00	
-.13110E+02	-.20510E+00	.19720E+01	.73341E+00	-.14156E+00	.46780E+00	.22636E+00	
-.13110E+02	.21090E-14	.20130E+01	.73741E+00	-.39743E-02	.48822E+00	.22083E+00	
-.13110E+02	.20510E+00	.19720E+01	.73168E+00	.13451E+00	.46987E+00	.22897E+00	
-.13110E+02	.37890E+00	.18560E+01	.71703E+00	.26894E+00	.40832E+00	.25066E+00	
-.13110E+02	.49510E+00	.16820E+01	.69582E+00	.38512E+00	.29631E+00	.28465E+00	
-.13110E+02	.53590E+00	.14770E+01	.67125E+00	.45805E+00	.13475E+00	.32798E+00	
-.13110E+02	.49510E+00	.12720E+01	.64723E+00	.45996E+00	-.57808E-01	.37465E+00	
-.13110E+02	.37890E+00	.10980E+01	.62726E+00	.37479E+00	-.24457E+00	.41669E+00	
-.13110E+02	.20510E+00	.98220E+00	.61437E+00	.20947E+00	-.38090E+00	.44548E+00	
-.13110E+02	-.21090E-14	.94140E+00	.61036E+00	-.38053E-02	-.43028E+00	.45468E+00	
2	4	16					
-.12330E+02	-.34210E+00	.65150E+00	.81141E+00	-.18127E+00	-.29388E+00	.22549E+00	
-.12330E+02	-.63200E+00	.84530E+00	.82272E+00	-.31236E+00	-.17451E+00	.19750E+00	
-.12330E+02	-.82580E+00	.11350E+01	.83917E+00	-.37062E+00	-.17661E-01	.15969E+00	
-.12330E+02	-.89380E+00	.14770E+01	.85833E+00	-.35486E+00	.13470E+00	.12009E+00	
-.12330E+02	-.82580E+00	.18190E+01	.87730E+00	-.28590E+00	.25182E+00	.85651E-01	
-.12330E+02	-.63200E+00	.21090E+01	.89309E+00	-.19273E+00	.32379E+00	.60634E-01	
-.12330E+02	-.34210E+00	.23030E+01	.90324E+00	-.96902E-01	.35845E+00	.46425E-01	
-.12330E+02	.27200E-14	.23710E+01	.90609E+00	-.47856E-02	.36909E+00	.42861E-01	
-.12330E+02	.34210E+00	.23030E+01	.90121E+00	.88568E-01	.36125E+00	.49620E-01	
-.12330E+02	.63200E+00	.21090E+01	.88940E+00	.18733E+00	.32763E+00	.66812E-01	
-.12330E+02	.82580E+00	.18190E+01	.87256E+00	.28333E+00	.25433E+00	.94234E-01	
-.12330E+02	.89380E+00	.14770E+01	.85331E+00	.35337E+00	.13436E+00	.12999E+00	
-.12330E+02	.82580E+00	.11350E+01	.83463E+00	.36793E+00	-.20632E-01	.16936E+00	
-.12330E+02	.63200E+00	.84530E+00	.81931E+00	.30702E+00	-.17841E+00	.20522E+00	
-.12330E+02	.34210E+00	.65150E+00	.80959E+00	.17340E+00	-.29656E+00	.22978E+00	
-.12330E+02	.28310E-14	.58350E+00	.80682E+00	-.44526E-02	-.33952E+00	.23718E+00	
2	5	16					
-.11330E+02	-.46720E+00	.34930E+00	.91377E+00	-.14721E+00	-.20700E+00	.10114E+00	
-.11330E+02	-.86340E+00	.61390E+00	.92341E+00	-.24690E+00	-.10593E+00	.75495E-01	
-.11330E+02	-.11280E+01	.10100E+01	.93707E+00	-.28203E+00	.21765E-01	.41985E-01	
-.11330E+02	-.12210E+01	.14770E+01	.95285E+00	-.25535E+00	.13721E+00	.80438E-02	
-.11330E+02	-.11280E+01	.19450E+01	.96830E+00	-.19080E+00	.21462E+00	-.20046E-01	
-.11330E+02	-.86340E+00	.23410E+01	.98095E+00	-.11823E+00	.25075E+00	-.39025E-01	
-.11330E+02	-.46730E+00	.26050E+01	.98873E+00	-.56690E-01	.26063E+00	-.48578E-01	
-.11330E+02	-.25930E-04	.26980E+01	.99040E+00	-.64089E-02	.26280E+00	-.49833E-01	
-.11330E+02	.46720E+00	.26050E+01	.98567E+00	.45619E-01	.26454E+00	-.43483E-01	
-.11330E+02	.86340E+00	.23410E+01	.97536E+00	.11133E+00	.25609E+00	-.29247E-01	
-.11330E+02	.11280E+01	.19450E+01	.96114E+00	.18787E+00	.21801E+00	-.66155E-02	
-.11330E+02	.12210E+01	.14770E+01	.94531E+00	.25385E+00	.13659E+00	.23323E-01	
-.11330E+02	.11280E+01	.10100E+01	.93030E+00	.27881E+00	.17565E-01	.56688E-01	
-.11330E+02	.86340E+00	.61390E+00	.91834E+00	.24008E+00	-.11132E+00	.87087E-01	
-.11330E+02	.46730E+00	.34930E+00	.91107E+00	.13699E+00	-.21067E+00	.10753E+00	
-.11330E+02	.25930E-04	.25630E+00	.90948E+00	-.57978E-02	-.24673E+00	.11272E+00	
2	6	16					
-.10420E+02	-.53910E+00	.17560E+00	.89736E+00	-.10402E+00	-.92267E-01	.17734E+00	
-.10420E+02	-.99620E+00	.48110E+00	.90548E+00	-.16332E+00	-.14738E-01	.15469E+00	
-.10420E+02	-.13020E+01	.93810E+00	.91631E+00	-.16868E+00	.75400E-01	.12724E+00	
-.10420E+02	-.14090E+01	.14770E+01	.92831E+00	-.12819E+00	.14326E+00	.10192E+00	
-.10420E+02	-.13020E+01	.20160E+01	.93960E+00	-.69704E-01	.16971E+00	.83925E-01	
-.10420E+02	-.99620E+00	.24740E+01	.94829E+00	-.23933E-01	.16028E+00	.74832E-01	
-.10420E+02	-.53920E+00	.27790E+01	.95287E+00	-.62656E-02	.13887E+00	.73045E-01	
-.10420E+02	-.50000E-04	.28860E+01	.95259E+00	-.91877E-02	.13066E+00	.75773E-01	
-.10420E+02	.53910E+00	.27790E+01	.94752E+00	-.94174E-02	.14477E+00	.81578E-01	
-.10420E+02	.99620E+00	.24740E+01	.93825E+00	.14565E-01	.16825E+00	.91093E-01	
-.10420E+02	.13020E+01	.20160E+01	.92722E+00	.66274E-01	.17467E+00	.10606E+00	
-.10420E+02	.14090E+01	.14770E+01	.91530E+00	.12687E+00	.14221E+00	.12689E+00	
-.10420E+02	.13020E+01	.93820E+00	.90466E+00	.16475E+00	.69029E-01	.15108E+00	
-.10420E+02	.99620E+00	.48110E+00	.89682E+00	.15107E+00	-.22789E-01	.17333E+00	

.10420E+02	.53920E+00	.17560E+00	.89277E+00	.89757E-01	-.97665E-01	.18753E+00
-.10420E+02	.50000E-04	.68380E-01	.89296E+00	-.81181E-02	-.12460E+00	.18922E+00
2	7	16				
-.94040E+01	-.64170E+00	-.71820E-01	.87264E+00	-.56581E+00	-.11371E+00	.23705E+00
-.94040E+01	-.11860E+01	.29160E+00	.88510E+00	-.60463E+00	.14517E+00	.18358E+00
-.94040E+01	-.15490E+01	.83560E+00	.90184E+00	-.52229E+00	.40041E+00	.12968E+00
-.94040E+01	-.16770E+01	.14770E+01	.92056E+00	-.33428E+00	.59122E+00	.86671E-01
-.94040E+01	-.15490E+01	.21190E+01	.93822E+00	-.87375E-01	.67505E+00	.63860E-01
-.94040E+01	-.11860E+01	.26630E+01	.95178E+00	.15828E+00	.64286E+00	.64973E-01
-.94040E+01	-.64170E+00	.30260E+01	.95878E+00	.35212E+00	.51871E+00	.87534E-01
-.94040E+01	-.23980E-04	.31540E+01	.95810E+00	.46914E+00	.34429E+00	.12462E+00
-.94040E+01	.64170E+00	.30260E+01	.94994E+00	.51096E+00	.15872E+00	.16842E+00
-.94040E+01	.11860E+01	.26630E+01	.93585E+00	.49357E+00	-.14984E-01	.21256E+00
-.94040E+01	.15490E+01	.21190E+01	.91814E+00	.43155E+00	-.16993E+00	.25285E+00
-.94040E+01	.16770E+01	.14770E+01	.89972E+00	.32874E+00	-.30443E+00	.28593E+00
-.94040E+01	.15490E+01	.83560E+00	.88339E+00	.18168E+00	-.40920E+00	.30843E+00
-.94040E+01	.11860E+01	.29160E+00	.87151E+00	-.82564E-02	-.46260E+00	.31661E+00
-.94040E+01	.64170E+00	-.71830E-01	.86549E+00	-.22282E+00	-.43826E+00	.30757E+00
-.94040E+01	.23980E-04	-.19950E+00	.86591E+00	-.42456E+00	-.31973E+00	.28034E+00
2	8	16				
-.83560E+01	-.76530E+00	-.37040E+00	.10441E+01	-.35966E+00	-.13999E+00	-.59247E-01
-.83560E+01	-.14140E+01	.63140E-01	.10561E+01	-.41788E+00	.37111E-01	-.10377E+00
-.83560E+01	-.18480E+01	.71200E+00	.10721E+01	-.38535E+00	.21879E+00	-.15274E+00
-.83560E+01	-.20000E+01	.14770E+01	.10908E+01	-.27593E+00	.36838E+00	-.19790E+00
-.83560E+01	-.18480E+01	.22430E+01	.11084E+01	-.11822E+00	.44462E+00	-.22845E+00
-.83560E+01	-.14140E+01	.28910E+01	.11215E+01	.40857E-01	.43950E+00	-.23882E+00
-.83560E+01	-.76530E+00	.33250E+01	.11278E+01	.16428E+00	.37445E+00	-.23004E+00
-.83560E+01	.54960E-14	.34770E+01	.11263E+01	.23914E+00	.28282E+00	-.20725E+00
-.83560E+01	.76530E+00	.33250E+01	.11174E+01	.27466E+00	.19051E+00	-.17603E+00
-.83560E+01	.14140E+01	.28910E+01	.11027E+01	.28835E+00	.10515E+00	-.14033E+00
-.83560E+01	.18480E+01	.22430E+01	.10847E+01	.28966E+00	.18727E-01	-.10274E+00
-.83560E+01	.20000E+01	.14770E+01	.10663E+01	.27121E+00	-.78426E-01	-.66438E-01
-.83560E+01	.18480E+01	.71200E+00	.10507E+01	.21450E+00	-.18294E+00	-.35835E-01
-.83560E+01	.14140E+01	.63140E-01	.10404E+01	.10003E+00	-.27642E+00	-.15151E-01
-.83560E+01	.76530E+00	-.37040E+00	.10359E+01	-.58978E-01	-.31165E+00	-.11799E-01
-.83560E+01	.25520E-04	-.52260E+00	.10372E+01	-.22723E+00	-.26563E+00	-.27059E-01
2	9	16				
-.73760E+01	-.82850E+00	-.52290E+00	.11214E+01	-.30600E+00	.27076E-01	-.16400E+00
-.73760E+01	-.15310E+01	-.53590E-01	.11317E+01	-.30376E+00	.17269E+00	-.20766E+00
-.73760E+01	-.20000E+01	.64880E+00	.11454E+01	-.22648E+00	.30222E+00	-.25412E+00
-.73760E+01	-.21650E+01	.14770E+01	.11605E+01	-.94570E-01	.37249E+00	-.29282E+00
-.73760E+01	-.20000E+01	.23060E+01	.11742E+01	.47176E-01	.36306E+00	-.31448E+00
-.73760E+01	-.15310E+01	.30080E+01	.11834E+01	.15247E+00	.28805E+00	-.31633E+00
-.73760E+01	-.82850E+00	.34780E+01	.11866E+01	.19807E+00	.18608E+00	-.30232E+00
-.73760E+01	-.25160E-04	.36420E+01	.11834E+01	.19153E+00	.95965E-01	-.27862E+00
-.73760E+01	.82850E+00	.34780E+01	.11748E+01	.15982E+00	.37017E-01	-.24958E+00
-.73760E+01	.15310E+01	.30080E+01	.11619E+01	.12980E+00	.38685E-02	-.21703E+00
-.73760E+01	.20000E+01	.23060E+01	.11469E+01	.11150E+00	-.24520E-01	-.18210E+00
-.73760E+01	.21650E+01	.14770E+01	.11321E+01	.92777E-01	-.66041E-01	-.14803E+00
-.73760E+01	.20000E+01	.64880E+00	.11204E+01	.50542E-01	-.11838E+00	-.12096E+00
-.73760E+01	.15310E+01	-.53590E-01	.11136E+01	-.28397E-01	-.15785E+00	-.10750E+00
-.73760E+01	.82850E+00	-.52290E+00	.11119E+01	-.13540E+00	-.15511E+00	-.11070E+00
-.73760E+01	.50000E-04	-.68770E+00	.11148E+01	-.24105E+00	-.91737E-01	-.13031E+00
2	10	16				
-.58790E+01	-.84440E+00	-.56150E+00	.10522E+01	-.29853E+00	.12367E+00	-.20699E-01
-.58790E+01	-.15600E+01	-.83100E-01	.10593E+01	-.26122E+00	.26122E+00	-.65475E-01
-.58790E+01	-.20390E+01	.63280E+00	.10716E+01	-.15153E+00	.36575E+00	-.11566E+00
-.58790E+01	-.22070E+01	.14770E+01	.10868E+01	-.36637E-14	.39874E+00	-.15472E+00
-.58790E+01	-.20390E+01	.23220E+01	.10996E+01	.14275E+00	.34459E+00	-.16910E+00
-.58790E+01	-.15600E+01	.30380E+01	.11070E+01	.22695E+00	.22695E+00	-.15987E+00
-.58790E+01	-.84440E+00	.35160E+01	.11087E+01	.23385E+00	.96883E-01	-.13684E+00
-.58790E+01	-.50000E-04	.36840E+01	.11050E+01	.18178E+00	.88818E-15	-.10919E+00
-.58790E+01	.84440E+00	.35160E+01	.10970E+01	.10756E+00	-.44556E-01	-.81693E-01
-.58790E+01	.15600E+01	.30380E+01	.10861E+01	.47943E-01	-.47943E-01	-.53955E-01
-.58790E+01	.20390E+01	.23220E+01	.10730E+01	.16503E-01	-.39833E-01	-.23538E-01
-.58790E+01	.20390E+01	.14770E+01	.10585E+01	.66612E-15	-.47168E-01	.80008E-02

-.58790E+01	.20390E+01	.63290E+00	.10486E+01	-.31410E-01	-.75822E-01	.36030E-01
-.58790E+01	.15600E+01	-.83100E+00	.10445E+01	-.99586E-01	-.99586E-01	.46387E-01
-.58790E+01	.84450E+00	-.56150E+00	.10455E+01	-.18940E+00	-.78468E-01	.36268E-01
-.58790E+01	.50000E-04	-.72950E+00	.10485E+01	-.26682E+00	-.22204E-14	.12748E-01
2	11	16				
-.40880E+01	-.85200E+00	-.57380E+00	.99541E+00	-.32276E+00	.10509E+00	.91834E-01
-.40850E+01	-.15870E+01	-.10650E+00	.10039E+01	-.33135E+00	.25531E+00	.18408E-01
-.40860E+01	-.20660E+01	.61830E+00	.10344E+01	-.20244E+00	.42166E+00	-.94935E-01
-.40890E+01	-.22140E+01	.14750E+01	.10617E+01	.16108E-02	.44993E+00	-.15287E+00
-.40900E+01	-.20360E+01	.23200E+01	.10785E+01	.15892E+00	.37131E+00	-.15999E+00
-.40900E+01	-.15580E+01	.30350E+01	.10869E+01	.23810E+00	.23139E+00	-.13880E+00
-.40900E+01	-.84320E+00	.35130E+01	.10884E+01	.25416E+00	.10010E+00	-.10229E+00
-.40900E+01	-.25010E-04	.36810E+01	.10818E+01	.19869E+00	-.47923E-02	-.59242E-01
-.40900E+01	.84310E+00	.35130E+01	.10690E+01	.10257E+00	-.47568E-01	-.22703E-01
-.40900E+01	.15580E+01	.30350E+01	.10519E+01	.18346E-01	-.24887E-01	.62646E-02
-.40900E+01	.20360E+01	.23200E+01	.10338E+01	-.48815E-02	-.26103E-03	.47406E-01
-.40890E+01	.22140E+01	.14750E+01	.10133E+01	.85246E-02	.13643E-02	.97174E-01
-.40860E+01	.20660E+01	.61830E+00	.99258E+00	.14783E-01	-.71086E-01	.15459E+00
-.40850E+01	.15870E+01	-.10650E+00	.98531E+00	-.84608E-01	-.14199E+00	.16708E+00
-.40880E+01	.85200E+00	-.57380E+00	.99219E+00	-.21162E+00	-.10085E+00	.13962E+00
-.40890E+01	.50000E-04	-.73280E+00	.99582E+00	-.28362E+00	-.41360E-02	.11765E+00
2	12	16				
-.26480E+01	-.86890E+00	-.60150E+00	.97228E+00	-.33446E+00	.80105E-01	.14498E+00
-.26460E+01	-.16460E+01	-.15920E+00	.98242E+00	-.40718E+00	.26627E+00	.17414E-01
-.26460E+01	-.21110E+01	.58920E+00	.10458E+01	-.17265E+00	.52749E+00	-.19063E+00
-.26510E+01	-.22070E+01	.14730E+01	.10792E+01	.44922E-01	.49050E+00	-.23170E+00
-.26510E+01	-.20200E+01	.23140E+01	.10993E+01	.18455E+00	.38663E+00	-.23072E+00
-.26510E+01	-.15460E+01	.30230E+01	.11068E+01	.26985E+00	.23781E+00	-.19384E+00
-.26510E+01	-.83670E+00	.34970E+01	.11041E+01	.28252E+00	.92582E-01	-.13340E+00
-.26510E+01	-.24950E-04	.36630E+01	.10920E+01	.21347E+00	-.22386E-01	-.70469E-01
-.26510E+01	.83660E+00	.34970E+01	.10741E+01	.97872E-01	-.64523E-01	-.22959E-01
-.26510E+01	.15460E+01	.30230E+01	.10517E+01	-.73856E-02	-.23433E-01	.82659E-02
-.26510E+01	.20200E+01	.23140E+01	.10272E+01	-.37244E-01	.34013E-01	.50206E-01
-.26510E+01	.22070E+01	.14730E+01	.10014E+01	-.22697E-01	.48003E-01	.11364E+00
-.26460E+01	.21110E+01	.58920E+00	.97616E+00	.22095E-01	-.38667E-01	.20106E+00
-.26460E+01	.16460E+01	-.15920E+00	.96665E+00	-.90495E-01	-.16660E+00	.21128E+00
-.26480E+01	.86900E+00	-.60150E+00	.97969E+00	-.23158E+00	-.10306E+00	.16577E+00
-.26500E+01	.24990E-04	-.73980E+00	.97964E+00	-.28266E+00	-.58095E-02	.15776E+00
2	13	16				
-.14980E+01	-.88630E+00	-.62980E+00	.94337E+00	-.32521E+00	.56472E-01	.21974E+00
-.14970E+01	-.17040E+01	-.21200E+00	.94161E+00	-.46469E+00	.28940E+00	.48154E-01
-.14960E+01	-.21370E+01	.56450E+00	.10581E+01	-.10296E+00	.64433E+00	-.31631E+00
-.15010E+01	-.21760E+01	.14730E+01	.11190E+01	.64768E-01	.53798E+00	-.36696E+00
-.15010E+01	-.19910E+01	.23020E+01	.11403E+01	.20765E+00	.40024E+00	-.34292E+00
-.15010E+01	-.15240E+01	.30010E+01	.11395E+01	.29869E+00	.24399E+00	-.26766E+00
-.15010E+01	-.82480E+00	.34680E+01	.11262E+01	.30595E+00	.85213E-01	-.16938E+00
-.15010E+01	-.25070E-04	.36320E+01	.11058E+01	.22762E+00	-.37851E-01	-.81505E-01
-.15010E+01	.82470E+00	.34680E+01	.10824E+01	.96027E-01	-.80027E-01	-.23671E-01
-.15010E+01	.15240E+01	.30010E+01	.10563E+01	-.27010E-01	-.24608E-01	.71729E-02
-.15010E+01	.19910E+01	.23020E+01	.10233E+01	-.70812E-01	.77792E-01	.43037E-01
-.15010E+01	.21760E+01	.14730E+01	.98199E+00	-.40042E-01	.10492E+00	.13797E+00
-.14960E+01	.21370E+01	.56450E+00	.93992E+00	.20164E-01	.27201E-02	.28146E+00
-.14970E+01	.17040E+01	-.21190E+00	.94391E+00	-.12101E+00	-.18272E+00	.25779E+00
-.14980E+01	.88630E+00	-.62980E+00	.97275E+00	-.25134E+00	-.95831E-01	.18135E+00
-.15000E+01	.25010E-04	-.74660E+00	.96764E+00	-.26998E+00	-.58150E-02	.19502E+00
2	14	16				
-.74950E+00	-.89860E+00	-.64980E+00	.90909E+00	-.29129E+00	.34313E-01	.31396E+00
-.74950E+00	-.17400E+01	-.24610E+00	.84417E+00	-.49357E+00	.31816E+00	.18536E+00
-.74920E+00	-.21470E+01	.55120E+00	.11102E+01	-.38373E-01	.78659E+00	-.59355E+00
-.75040E+00	-.21480E+01	.14730E+01	.12094E+01	.79420E-01	.57272E+00	-.60096E+00
-.75040E+00	-.19650E+01	.22910E+01	.12004E+01	.21815E+00	.39447E+00	-.47835E+00
-.75040E+00	-.15040E+01	.29810E+01	.11766E+01	.31191E+00	.24139E+00	-.34075E+00
-.75040E+00	-.81390E+00	.34420E+01	.11497E+01	.32826E+00	.82968E-01	-.20227E+00
-.75040E+00	-.24960E-04	.36040E+01	.11195E+01	.27350E+00	-.47971E-01	-.78773E-01
-.75040E+00	.81390E+00	.34420E+01	.10896E+01	.10718E+00	-.95292E-01	-.17281E-01
-.75040E+00	.15040E+01	.29810E+01	.11634E+01	-.38752E-01	-.26509E-01	.99163E-03

.84350E+00	-.20610E+01	.11850E+01	.15586E+01	.97073E-01	.34504E+00	-.12566E+01
.84870E+00	-.18850E+01	.22580E+01	.13252E+01	.20282E+00	.28304E+00	-.66702E+00
.84870E+00	-.14430E+01	.29200E+01	.12413E+01	.31851E+00	.21216E+00	-.41209E+00
.84870E+00	-.78090E+00	.33630E+01	.11865E+01	.43221E+00	.10044E+00	-.17026E+00
.84870E+00	-.89160E-15	.35180E+01	.11425E+01	.40755E+00	-.70473E-01	.10663E-01
.84870E+00	.78090E+00	.33630E+01	.11105E+01	.21637E+00	-.16427E+00	.54518E-01
.84870E+00	.14430E+01	.29200E+01	.10955E+01	-.28459E-01	-.68104E-01	-.21378E-01
.84870E+00	.18850E+01	.22580E+01	.11039E+01	-.12461E+00	.12161E+00	-.13457E+00
.84350E+00	.20610E+01	.11850E+01	.11716E+01	-.76682E-01	.25308E+00	-.31859E+00
4 3 9						
.17900E+01	-.19940E+01	.12440E+01	.14394E+01	.10404E+00	.15032E+00	-.88283E+00
.17950E+01	-.18240E+01	.22330E+01	.13150E+01	.18038E+00	.19244E+00	-.57473E+00
.17950E+01	-.13960E+01	.28730E+01	.12372E+01	.34089E+00	.21548E+00	-.30984E+00
.17950E+01	-.75530E+00	.33010E+01	.11782E+01	.52658E+00	.12564E+00	-.12197E-01
.17950E+01	-.54120E-15	.34510E+01	.11253E+01	-.26357E+00	-.81928E-01	-.32237E+00
.17950E+01	.75530E+00	.33010E+01	.11487E+01	.33204E+00	-.22825E+00	.96647E-01
.17950E+01	.13960E+01	.28730E+01	.11369E+01	.29603E-01	-.14705E+00	-.40548E-01
.17950E+01	.18240E+01	.22330E+01	.11505E+01	-.11683E+00	.63196E-01	-.20863E+00
.17900E+01	.19940E+01	.12440E+01	.12184E+01	-.92487E-01	.17572E+00	-.40161E+00
4 4 9						
.29940E+01	-.18940E+01	.12750E+01	.13198E+01	.11381E+00	.49946E-01	-.58291E+00
.29940E+01	-.17320E+01	.21950E+01	.12553E+01	.16571E+00	.11965E+00	-.36471E+00
.29940E+01	-.13260E+01	.28030E+01	.11838E+01	.36644E+00	.22133E+00	.10506E-01
.29940E+01	-.71760E+00	.32100E+01	.11286E+01	-.19876E+00	-.18869E+00	-.33040E+00
.29940E+01	-.90210E-15	.33530E+01	.11171E+01	-.26514E+00	-.97511E-01	-.31028E+00
.29940E+01	.71760E+00	.32100E+01	.11215E+01	-.35783E+00	.42367E-01	-.36746E+00
.29940E+01	.13260E+01	.28030E+01	.11722E+01	.10647E+00	-.25048E+00	.18595E-01
.29940E+01	.17320E+01	.21950E+01	.11656E+01	-.10007E+00	-.23074E-01	-.20315E+00
.29940E+01	.18940E+01	.12750E+01	.12060E+01	-.10811E+00	.11250E+00	-.36716E+00
4 5 9						
.41970E+01	-.17760E+01	.12780E+01	.11968E+01	.12159E+00	-.12817E-02	-.29880E+00
.41930E+01	-.16250E+01	.21500E+01	.11619E+01	.16197E+00	.83643E-01	-.12735E-01
.41930E+01	-.12440E+01	.27210E+01	.11076E+01	-.14849E+00	-.30784E+00	-.32692E+00
.41930E+01	-.67320E+00	.31020E+01	.10828E+01	-.21657E+00	-.20957E+00	-.24977E+00
.41930E+01	-.97140E-16	.32360E+01	.10735E+01	-.28782E+00	-.11005E+00	-.23432E+00
.41930E+01	.67320E+00	.31020E+01	.10768E+01	-.34389E+00	.23044E-01	-.26426E+00
.41930E+01	.12440E+01	.27210E+01	.10884E+01	-.35912E+00	.20189E+00	-.33739E+00
.41930E+01	.16250E+01	.21500E+01	.11402E+01	-.81358E-01	-.10656E+00	-.50424E-01
.41970E+01	.17760E+01	.12780E+01	.11615E+01	-.12067E+00	.58281E-01	-.26441E+00
4 6 9						
.54020E+01	-.17120E+01	.12680E+01	.12086E+01	-.75666E-03	-.34965E-01	-.30761E+00
.54000E+01	-.15670E+01	.21260E+01	.11733E+01	.42972E-01	.10387E+00	.71801E-01
.54000E+01	-.11990E+01	.26760E+01	.11111E+01	-.28878E+00	-.28878E+00	-.38331E+00
.54000E+01	-.64890E+00	.30440E+01	.10851E+01	-.30316E+00	-.12551E+00	-.27211E+00
.54000E+01	.27140E-14	.31730E+01	.10708E+01	-.31289E+00	.87729E-04	-.23277E+00
.54000E+01	.64890E+00	.30440E+01	.10663E+01	-.30937E+00	.12818E+00	-.23727E+00
.54000E+01	.11990E+01	.26760E+01	.10687E+01	-.28974E+00	.28974E+00	-.29603E+00
.54000E+01	.15670E+01	.21260E+01	.11050E+01	.50745E-01	-.12241E+00	.10074E+00
.54020E+01	.17120E+01	.12680E+01	.11271E+01	.24374E-03	-.17560E-01	-.16761E+00
4 7 9						
.70180E+01	-.17120E+01	.12290E+01	.11898E+01	-.17289E-02	-.97422E-01	-.28367E+00
.70000E+01	-.15670E+01	.21260E+01	.11720E+01	.97617E-02	.23565E-01	.74513E-01
.70000E+01	-.11990E+01	.26760E+01	.11240E+01	-.33337E+00	-.33337E+00	-.46447E+00
.70000E+01	-.64900E+00	.30440E+01	.11089E+01	-.33944E+00	-.14061E+00	-.34967E+00
.70000E+01	-.56110E-15	.31730E+01	.11004E+01	-.32921E+00	-.23315E-14	-.30631E+00
.70000E+01	.64900E+00	.30440E+01	.10991E+01	-.30554E+00	.12657E+00	-.30434E+00
.70000E+01	.11990E+01	.26760E+01	.11042E+01	-.27699E+00	.27699E+00	-.35745E+00
.70000E+01	.15670E+01	.21260E+01	.11432E+01	.57178E-01	-.13803E+00	.38163E-02
.70180E+01	.17120E+01	.12290E+01	.11595E+01	.34058E-03	-.47789E-01	-.24737E+00
4 8 9						
.90300E+01	-.17120E+01	.11350E+01	.11568E+01	-.17928E-02	-.14235E+00	-.21227E+00
.90000E+01	-.15670E+01	.21260E+01	.11392E+01	-.27578E-01	-.66575E-01	.12054E+00
.90000E+01	-.11990E+01	.26760E+01	.10980E+01	-.37094E+00	-.37094E+00	-.46106E+00
.90000E+01	-.64900E+00	.30440E+01	.10891E+01	-.36742E+00	-.15220E+00	-.33152E+00
.90000E+01	-.56110E-15	.31730E+01	.10850E+01	-.33867E+00	.77161E-14	-.28114E+00

.90000E+01	.64900E+00	.30440E+01	.10855E+01	-.29610E+00	.12266E+00	-.27073E+00
.90000E+01	.11990E+01	.26760E+01	.10903E+01	-.25943E+00	.25943E+00	-.31147E+00
.90000E+01	.15670E+01	.21260E+01	.11270E+01	.60624E-01	-.14635E+00	.18478E-01
.90300E+01	.17120E+01	.11350E+01	.11471E+01	.12179E-02	-.11842E+00	-.22203E+00
4	9	9				
.11170E+02	-.17120E+01	.94670E+00	.10677E+01	-.65821E-03	-.14981E+00	-.18084E-02
.11120E+02	-.15670E+01	.21260E+01	.10755E+01	-.53131E-01	-.12826E+00	.21158E+00
.11120E+02	-.11990E+01	.26760E+01	.10508E+01	-.38328E+00	-.38328E+00	-.38375E+00
.11120E+02	-.64900E+00	.30440E+01	.10530E+01	-.37422E+00	-.15502E+00	-.26386E+00
.11120E+02	.30260E-15	.31730E+01	.10546E+01	-.33790E+00	.14433E-13	-.21876E+00
.11120E+02	.64900E+00	.30440E+01	.10559E+01	-.28805E+00	.11932E+00	-.20484E+00
.11120E+02	.11990E+01	.26760E+01	.10568E+01	-.24938E+00	.24938E+00	-.23320E+00
.11120E+02	.15670E+01	.21260E+01	.10849E+01	.52654E-01	-.12711E+00	.89126E-01
.11170E+02	.17120E+01	.94670E+00	.10927E+01	.13915E-02	-.18994E+00	-.10417E+00
5	1	10				
.15060E+02	-.17120E+01	.83010E+00	.10071E+01	.12542E-03	.74383E-02	.18472E+00
.15060E+02	-.15670E+01	.21260E+01	.10138E+01	-.49563E-01	-.11965E+00	.26587E+00
.15060E+02	-.11990E+01	.26760E+01	.99569E+00	-.33937E+00	-.33937E+00	-.21545E+00
.15060E+02	-.64900E+00	.30440E+01	.10018E+01	-.34109E+00	-.14130E+00	-.13545E+00
.15060E+02	.42030E-16	.31730E+01	.10055E+01	-.32128E+00	.57732E-14	-.11024E+00
.15060E+02	.64900E+00	.30440E+01	.10069E+01	-.28733E+00	.11903E+00	-.10657E+00
.15060E+02	.11990E+01	.26760E+01	.10060E+01	-.26059E+00	.26059E+00	-.14327E+00
.15060E+02	.15670E+01	.21260E+01	.10294E+01	.65091E-02	-.15713E-01	.16408E+00
.15060E+02	.17120E+01	.83010E+00	.10342E+01	.30390E-02	-.18024E+00	.60448E-01
.15060E+02	-.85710E-15	-.15440E+00	.10243E+01	-.66818E+00	-.53291E-14	-.25279E+00
5	2	10				
.20700E+02	-.17120E+01	.83010E+00	.10163E+01	.97911E-03	.58068E-01	.19310E+00
.20700E+02	-.15670E+01	.21260E+01	.10006E+01	-.68251E-01	-.16476E+00	.16949E+00
.20700E+02	-.11990E+01	.26760E+01	.98392E+00	-.27981E+00	-.27981E+00	-.12152E+00
.20700E+02	-.64900E+00	.30440E+01	.99210E+00	-.28212E+00	-.11687E+00	-.74948E-01
.20700E+02	.42030E-16	.31730E+01	.10001E+01	-.27512E+00	-.22204E-14	-.73342E-01
.20700E+02	.64900E+00	.30440E+01	.10072E+01	-.25977E+00	.10761E+00	-.90804E-01
.20700E+02	.11990E+01	.26760E+01	.10129E+01	-.24637E+00	.24637E+00	-.14374E+00
.20700E+02	.15670E+01	.21260E+01	.10405E+01	-.43744E-01	.10560E+00	.47100E-01
.20700E+02	.17120E+01	.83010E+00	.10649E+01	.23582E-02	-.13986E+00	.41002E-01
.20700E+02	-.85710E-15	-.15440E+00	.10526E+01	-.68559E+00	.62061E-13	-.29347E+00
6	1	8				
-.83620E+01	.20270E+02	.21500E+01	.10223E+01	-.17136E+00	.26645E-14	-.74016E-01
-.83620E+01	.20810E+02	.21500E+01	.10511E+01	-.29337E+00	-.13323E-14	-.18862E+00
-.95000E+01	.20820E+02	.10750E+01	.90128E+00	.21157E+00	.16112E+00	.11782E+00
-.95000E+01	.20820E+02	-.10750E+01	.89027E+00	.20968E+00	.41858E-02	.16512E+00
-.83620E+01	.20810E+02	-.21500E+01	.10161E+01	-.23981E+00	-.26645E-14	-.89555E-01
-.83620E+01	.20270E+02	-.21500E+01	.99854E+00	-.21868E+00	-.44409E-14	-.44776E-01
-.95000E+01	.20000E+02	-.10750E+01	.10300E+01	-.29907E-14	.48576E-01	-.62928E-01
-.95000E+01	.20000E+02	.10750E+01	.10422E+01	.72928E-14	.11716E+00	-.99224E-01
6	2	8				
-.44110E+01	.20500E+02	.21500E+01	.10003E+01	-.45479E-01	-.17764E-14	-.26271E-02
-.44130E+01	.21490E+02	.21500E+01	.10371E+01	-.18745E+00	-.12879E-13	-.10995E+00
-.45000E+01	.21970E+02	.10750E+01	.93565E+00	.21882E+00	.21552E+00	.30274E-01
-.45000E+01	.21970E+02	-.10750E+01	.92473E+00	.21694E+00	.14902E-02	.98400E-01
-.44130E+01	.21490E+02	-.21500E+01	.99371E+00	-.11447E+00	.26645E-14	-.57180E-03
-.44110E+01	.20500E+02	-.21500E+01	.96854E+00	-.98821E-01	-.35527E-14	.52339E-01
-.45000E+01	.20000E+02	-.10750E+01	.96488E+00	-.65139E-14	.82887E-01	.62385E-01
-.45000E+01	.20000E+02	.10750E+01	.98098E+00	.50585E-14	.14150E+00	.17676E-01
6	3	8				
-.14360E+01	.20670E+02	.21500E+01	.10086E+01	.12155E-01	-.11102E-13	-.17403E-01
-.14340E+01	.22000E+02	.21500E+01	.10384E+01	-.16241E+00	.11990E-13	-.10402E+00
-.15000E+01	.22660E+02	.10750E+01	.93938E+00	.21947E+00	.23846E+00	.12537E-01
-.15000E+01	.22660E+02	-.10750E+01	.92706E+00	.21734E+00	.12770E-01	.93704E-01
-.14340E+01	.22000E+02	-.21500E+01	.98182E+00	-.58256E-01	.53291E-14	.32710E-01
-.14360E+01	.20670E+02	-.21500E+01	.94558E+00	-.22584E-01	-.71054E-14	.10606E+00
-.15000E+01	.20000E+02	-.10750E+01	.91293E+00	-.54123E-14	.80649E-01	.16166E+00
-.15000E+01	.20000E+02	.10750E+01	.96533E+00	-.75911E-14	.20892E+00	.24528E-01
6	4	8				
.25000E+00	.20750E+02	.21500E+01	.10430E+01	.65116E-02	-.44409E-14	-.87456E-01
.25000E+00	.22250E+02	.21500E+01	.10122E+01	-.18130E+00	.33307E-14	-.57193E-01

.25000E+00	.23000E+02	.10750E+01	.93706E+00	.17764E-13	.23972E+00	.64714E-01
.25000E+00	.23000E+02	-.10750E+01	.94764E+00	-.13323E-14	.24166E-02	.10263E+00
.25000E+00	.22250E+02	-.21500E+01	.97106E+00	-.32236E-01	-.66613E-14	.56209E-01
.25000E+00	.20750E+02	-.21500E+01	.95941E+00	.41656E-01	-.31086E-14	.78186E-01
.25000E+00	.20000E+02	-.10750E+01	.82409E+00	.11990E-13	-.19838E-01	.32695E+00
.25000E+00	.20000E+02	.10750E+01	.11027E+01	.39690E-14	.29851E+00	-.29919E+00
6	5	8				
.12500E+01	.20750E+02	.21500E+01	.10747E+01	-.32136E-01	-.44409E-15	-.15453E+00
.12500E+01	.22250E+02	.21500E+01	.99606E+00	-.24508E+00	-.79936E-14	-.52036E-01
.12500E+01	.23000E+02	.10750E+01	.91088E+00	.21316E-13	.23790E+00	.11451E+00
.12500E+01	.23000E+02	-.10750E+01	.88538E+00	.53291E-14	-.37756E-01	.21758E+00
.12500E+01	.22250E+02	-.21500E+01	.95517E+00	-.51651E-01	.44409E-14	.85438E-01
.12500E+01	.20750E+02	-.21500E+01	.97095E+00	.60852E-01	.44409E-14	.53736E-01
.12500E+01	.20000E+02	-.10750E+01	.97250E+00	-.85487E-14	-.31702E-01	.53422E-01
.12500E+01	.20000E+02	.10750E+01	.11858E+01	-.83267E-15	.20876E+00	-.43726E+00
6	6	8				
.27500E+01	.20750E+02	.21500E+01	.10878E+01	-.11561E+00	-.19984E-14	-.19416E+00
.27500E+01	.22250E+02	.21500E+01	.10042E+01	-.37557E+00	.93814E-14	-.14805E+00
.27500E+01	.23000E+02	.10750E+01	.92267E+00	-.10658E-13	.24050E+00	.91351E-01
.27500E+01	.23000E+02	-.10750E+01	.91824E+00	-.35527E-14	-.11841E+00	.14410E+00
.27500E+01	.22250E+02	-.21500E+01	.97686E+00	-.99230E-01	.31086E-14	.35979E-01
.27500E+01	.20750E+02	-.21500E+01	.10070E+01	.34883E-01	.39968E-14	-.15323E-01
.27500E+01	.20000E+02	-.10750E+01	.10475E+01	.44409E-14	-.66857E-02	-.96794E-01
.27500E+01	.20000E+02	.10750E+01	.11853E+01	-.18874E-14	.11002E+00	-.40617E+00
6	7	8				
.45000E+01	.20750E+02	.21500E+01	.11023E+01	-.19165E+00	-.51070E-14	-.24778E+00
.45000E+01	.22250E+02	.21500E+01	.10570E+01	-.48475E+00	-.62728E-14	-.34452E+00
.45000E+01	.23000E+02	.10750E+01	.10501E+01	.74607E-13	.21302E+00	-.14676E+00
.45000E+01	.23000E+02	-.10750E+01	.10233E+01	-.39080E-13	-.18689E+00	-.81705E-01
.45000E+01	.22250E+02	-.21500E+01	.10227E+01	-.10871E+00	-.31086E-14	-.57547E-01
.45000E+01	.20750E+02	-.21500E+01	.10313E+01	-.13166E-01	-.22204E-15	-.63513E-01
.45000E+01	.20000E+02	-.10750E+01	.10674E+01	.14655E-13	.18814E-01	-.13849E+00
.45000E+01	.20000E+02	.10750E+01	.11675E+01	.13156E-13	.22118E-01	-.35534E+00
6	8	8				
.65000E+01	.20750E+02	.21500E+01	.11111E+01	-.23495E+00	-.24425E-14	-.28463E+00
.65000E+01	.22250E+02	.21500E+01	.11082E+01	-.50366E+00	-.10658E-13	-.46744E+00
.65000E+01	.23000E+02	.10750E+01	.11585E+01	-.42633E-13	.12987E+00	-.35097E+00
.65000E+01	.23000E+02	-.10750E+01	.11041E+01	.46629E-14	-.19821E+00	-.25409E+00
.65000E+01	.22250E+02	-.21500E+01	.10569E+01	-.41066E-01	.57732E-14	-.11790E+00
.65000E+01	.20750E+02	-.21500E+01	.10346E+01	-.46491E-01	.11213E-13	-.72172E-01
.65000E+01	.20000E+02	-.10750E+01	.10501E+01	.16875E-13	.37725E-01	-.10353E+00
.65000E+01	.20000E+02	.10750E+01	.11597E+01	.23592E-15	-.72819E-01	-.34256E+00
6	9	8				
.85000E+01	.20750E+02	.21500E+01	.11089E+01	-.24216E+00	.57732E-14	-.28324E+00
.85000E+01	.22250E+02	.21500E+01	.11357E+01	-.44016E+00	.13767E-13	-.46905E+00
.85000E+01	.23000E+02	.10750E+01	.12159E+01	.00000E+00	.30622E-01	-.46521E+00
.85000E+01	.23000E+02	-.10750E+01	.11297E+01	-.88818E-14	-.15976E+00	-.29599E+00
.85000E+01	.22250E+02	-.21500E+01	.10620E+01	.57586E-01	.84932E-14	-.13008E+00
.85000E+01	.20750E+02	-.21500E+01	.10088E+01	-.24092E-01	-.52180E-14	-.18198E-01
.85000E+01	.20000E+02	-.10750E+01	.97267E+00	-.37748E-14	.29603E-01	.53220E-01
.85000E+01	.20000E+02	.10750E+01	.11390E+01	.80491E-14	-.15046E+00	-.31359E+00
6	10	8				
.10000E+02	.20750E+02	.21500E+01	.10819E+01	-.22767E+00	-.13323E-14	-.21932E+00
.10000E+02	.22250E+02	.21500E+01	.11368E+01	-.35111E+00	.57732E-14	-.40487E+00
.10000E+02	.23000E+02	.10750E+01	.13500E+01	.31974E-13	-.56057E-01	-.78381E+00
.10000E+02	.23000E+02	-.10750E+01	.12418E+01	-.26645E-14	-.10307E+00	-.53391E+00
.10000E+02	.22250E+02	-.21500E+01	.10768E+01	.15235E+00	-.81601E-14	-.18073E+00
.10000E+02	.20750E+02	-.21500E+01	.99213E+00	.37361E-01	.28866E-14	.14295E-01
.10000E+02	.20000E+02	-.10750E+01	.90341E+00	.11324E-13	-.18907E-01	.18561E+00
.10000E+02	.20000E+02	.10750E+01	.10990E+01	-.27756E-14	-.19445E+00	-.24178E+00
6	11	8				
.11350E+02	.20700E+02	.21500E+01	.10678E+01	-.20561E+00	-.22204E-14	-.18031E+00
.11350E+02	.22090E+02	.21500E+01	.11101E+01	-.21919E+00	.15765E-13	-.27559E+00
.11380E+02	.22780E+02	.10750E+01	.12290E+01	-.29452E+00	-.23384E+00	-.62575E+00
.11380E+02	.22780E+02	-.10750E+01	.95446E+00	-.24276E+00	-.10389E+00	.19308E-01
.11350E+02	.22090E+02	-.21500E+01	.10714E+01	.28016E+00	.14433E-13	-.22313E+00
.11350E+02	.20700E+02	-.21500E+01	.98074E+00	.10463E+00	.39968E-14	.27252E-01

.11380E+02	.20000E+02	-.10750E+01	.91150E+00	-.51070E-14	-.84610E-01	.16366E+00
.11380E+02	.20000E+02	.10750E+01	.10593E+01	.37748E-14	-.21950E+00	-.16845E+00
6	12	8				
.13100E+02	.20590E+02	.21500E+01	.10241E+01	-.18550E+00	-.31086E-14	-.82794E-01
.13100E+02	.21770E+02	.21500E+01	.10253E+01	-.14792E+00	-.16875E-13	-.72772E-01
.13130E+02	.22350E+02	.10750E+01	.99935E+00	-.24551E+00	-.28217E+00	-.13739E+00
.13130E+02	.22350E+02	-.10750E+01	.78305E+00	-.20566E+00	-.31054E+00	.25197E+00
.13100E+02	.21770E+02	-.21500E+01	.10027E+01	.31191E+00	.88818E-15	-.10211E+00
.13100E+02	.20590E+02	-.21500E+01	.97467E+00	.16092E+00	.75495E-14	.24156E-01
.13130E+02	.20000E+02	-.10750E+01	.95520E+00	-.31086E-14	-.13374E+00	.70001E-01
.13130E+02	.20000E+02	.10750E+01	.99628E+00	-.11324E-13	-.19141E+00	-.29155E-01
7	1	6				
.15000E+02	.21070E+02	.21500E+01	.99968E+00	-.20488E+00	-.59952E-14	-.41232E-01
.15000E+02	.22130E+02	.10750E+01	.95091E+00	-.88818E-15	-.20597E+00	.53533E-01
.15000E+02	.22130E+02	-.10750E+01	.90207E+00	-.53291E-14	-.41568E+00	.13489E-01
.15000E+02	.21070E+02	-.21500E+01	.96751E+00	.17976E+00	-.13323E-13	.31680E-01
.15000E+02	.20000E+02	-.10750E+01	.97327E+00	-.27756E-14	-.14050E+00	.33069E-01
.15000E+02	.20000E+02	.10750E+01	.99086E+00	.44409E-15	-.14622E+00	-.31730E-02
7	2	6				
.17500E+02	.21070E+02	.21500E+01	.10031E+01	-.21665E+00	.57732E-14	-.52876E-01
.17500E+02	.22130E+02	.10750E+01	.99196E+00	-.88818E-14	-.14887E+00	-.61508E-02
.17500E+02	.22130E+02	-.10750E+01	.96383E+00	-.71054E-14	-.47933E+00	-.15715E+00
.17500E+02	.21070E+02	-.21500E+01	.98271E+00	.14977E+00	.75495E-14	.11867E-01
.17500E+02	.20000E+02	-.10750E+01	.98782E+00	.16653E-14	-.14212E+00	.40049E-02
.17500E+02	.20000E+02	.10750E+01	.99716E+00	-.39968E-14	-.11841E+00	-.83518E-02
7	3	6				
.21000E+02	.21070E+02	.21500E+01	.10011E+01	-.21903E+00	.46629E-14	-.49981E-01
.21000E+02	.22130E+02	.10750E+01	.99538E+00	-.10658E-13	-.11253E+00	-.34476E-02
.21000E+02	.22130E+02	-.10750E+01	.97657E+00	-.97700E-14	-.51663E+00	-.21758E+00
.21000E+02	.21070E+02	-.21500E+01	.98854E+00	.12589E+00	.93259E-14	.69388E-02
.21000E+02	.20000E+02	-.10750E+01	.99272E+00	.18874E-14	-.13885E+00	-.47656E-02
.21000E+02	.20000E+02	.10750E+01	.99837E+00	.35527E-14	-.10137E+00	-.70127E-02
7	4	6				
.25000E+02	.21070E+02	.21500E+01	.99919E+00	-.22479E+00	-.62172E-14	-.48766E-01
.25000E+02	.22130E+02	.10750E+01	.99327E+00	-.21316E-13	-.76935E-01	.74951E-02
.25000E+02	.22130E+02	-.10750E+01	.97359E+00	.44409E-15	-.54701E+00	-.24330E+00
.25000E+02	.21070E+02	-.21500E+01	.98811E+00	.91026E-01	.22204E-14	.19370E-01
.25000E+02	.20000E+02	-.10750E+01	.99319E+00	.18319E-14	-.13690E+00	-.51578E-02
.25000E+02	.20000E+02	.10750E+01	.99778E+00	-.84377E-14	-.88717E-01	-.34284E-02
7	5	6				
.29000E+02	.21070E+02	.21500E+01	.99829E+00	-.23194E+00	.53291E-14	-.50220E-01
.29000E+02	.22130E+02	.10750E+01	.99299E+00	.15987E-13	-.41450E-01	.12260E-01
.29000E+02	.22130E+02	-.10750E+01	.97265E+00	-.15543E-14	-.56140E+00	-.25697E+00
.29000E+02	.21070E+02	-.21500E+01	.98727E+00	.49935E-01	.22204E-14	.22834E-01
.29000E+02	.20000E+02	-.10750E+01	.99228E+00	.13531E-14	-.13629E+00	-.31857E-02
.29000E+02	.20000E+02	.10750E+01	.99664E+00	-.13323E-13	-.77713E-01	.66253E-03
7	6	6				
.33000E+02	.21070E+02	.21500E+01	.10005E+01	-.23087E+00	.44409E-14	-.54176E-01
.33000E+02	.22130E+02	.10750E+01	.10004E+01	.79936E-14	-.89066E-02	-.82240E-03
.33000E+02	.22130E+02	-.10750E+01	.97899E+00	.15987E-13	-.55155E+00	-.25835E+00
.33000E+02	.21070E+02	-.21500E+01	.98662E+00	.15040E-01	.35527E-14	.26405E-01
.33000E+02	.20000E+02	-.10750E+01	.98911E+00	-.10825E-14	-.13545E+00	.33197E-02
.33000E+02	.20000E+02	.10750E+01	.99478E+00	.97700E-14	-.65924E-01	.60654E-02
7	7	6				
.35630E+02	.21070E+02	.21500E+01	.10118E+01	-.19235E+00	.18319E-14	-.60448E-01
.35630E+02	.22130E+02	.10750E+01	.10694E+01	.71054E-14	-.18911E-02	-.14237E+00
.35630E+02	.22130E+02	-.10750E+01	.10177E+01	.22204E-14	-.50524E+00	-.28573E+00
.35630E+02	.21070E+02	-.21500E+01	.95094E+00	.24755E-01	-.14211E-13	.95669E-01
.35630E+02	.20000E+02	-.10750E+01	.96446E+00	-.16098E-14	-.12557E+00	.54232E-01
.35630E+02	.20000E+02	.10750E+01	.96311E+00	.84377E-14	-.55541E-01	.69640E-01
8	1	8				
-.95000E+01	-.20000E+02	.10750E+01	.10444E+01	-.48919E-14	.11922E+00	-.10426E+00
-.95000E+01	-.20000E+02	-.10750E+01	.10312E+01	.11543E-13	.51326E-01	-.65674E-01
-.83620E+01	-.20270E+02	-.21500E+01	.99875E+00	.22363E+00	-.17764E-14	-.47378E-01
-.83620E+01	-.20810E+02	-.21500E+01	.10162E+01	.24310E+00	-.18208E-13	-.91269E-01
-.95000E+01	-.20820E+02	-.10750E+01	.88990E+00	-.20962E+00	.62502E-02	.16580E+00

-.95000E+01	-.20820E+02	.10750E+01	.90168E+00	-.21164E+00	.16365E+00	.11623E+00
-.83620E+01	-.20810E+02	.21500E+01	.10537E+01	.29915E+00	-.33307E-13	-.19720E+00
-.83620E+01	-.20270E+02	.21500E+01	.10246E+01	.17567E+00	-.11102E-13	-.80349E-01
8	2	8				
-.45000E+01	-.20000E+02	.10750E+01	.98372E+00	.13961E-13	.14652E+00	.10838E-01
-.45000E+01	-.20000E+02	-.10750E+01	.96494E+00	.93103E-14	.90289E-01	.60970E-01
-.44110E+01	-.20500E+02	-.21500E+01	.96697E+00	.10546E+00	.10214E-13	.54020E-01
-.44130E+01	-.21490E+02	-.21500E+01	.99163E+00	.11771E+00	-.22204E-14	.28179E-02
-.45000E+01	-.21970E+02	-.10750E+01	.92238E+00	-.21653E+00	.55816E-02	.10295E+00
-.45000E+01	-.21970E+02	.10750E+01	.93487E+00	-.21869E+00	.22188E+00	.29024E-01
-.44130E+01	-.21490E+02	.21500E+01	.10400E+01	.19631E+00	.88818E-15	-.11920E+00
-.44110E+01	-.20500E+02	.21500E+01	.10036E+01	.51457E-01	.17764E-14	-.97907E-02
8	3	8				
-.15000E+01	-.20000E+02	.10750E+01	.96992E+00	.45797E-15	.21918E+00	.11215E-01
-.15000E+01	-.20000E+02	-.10750E+01	.90914E+00	.83267E-15	.94136E-01	.16630E+00
-.14360E+01	-.20670E+02	-.21500E+01	.93983E+00	.30657E-01	.44409E-15	.11662E+00
-.14340E+01	-.22000E+02	-.21500E+01	.97520E+00	.62340E-01	-.31086E-14	.45231E-01
-.15000E+01	-.22660E+02	-.10750E+01	.91851E+00	-.21587E+00	.17432E-01	.11018E+00
-.15000E+01	-.22660E+02	.10750E+01	.93293E+00	-.21835E+00	.24978E+00	.19595E-01
-.14340E+01	-.22000E+02	.21500E+01	.10397E+01	.17763E+00	.10658E-13	-.11167E+00
-.14360E+01	-.20670E+02	.21500E+01	.10132E+01	-.14362E-02	-.35527E-14	-.26613E-01
8	4	8				
.25000E+00	-.20000E+02	.10750E+01	.11252E+01	-.87985E-14	.30951E+00	-.35378E+00
.25000E+00	-.20000E+02	-.10750E+01	.80652E+00	-.31641E-13	-.51180E-02	.35721E+00
.25000E+00	-.20750E+02	-.21500E+01	.95137E+00	-.35566E-01	.26645E-14	.94183E-01
.25000E+00	-.22250E+02	-.21500E+01	.96246E+00	.41606E-01	.13323E-14	.72268E-01
.25000E+00	-.23000E+02	-.10750E+01	.91850E+00	.17764E-14	.10884E-02	.15790E+00
.25000E+00	-.23000E+02	.10750E+01	.90711E+00	-.62172E-14	.25730E+00	.11171E+00
.25000E+00	-.22250E+02	.21500E+01	.10116E+01	.20867E+00	.15543E-13	-.66545E-01
.25000E+00	-.20750E+02	.21500E+01	.10505E+01	.12593E-01	-.66613E-14	-.10310E+00
8	5	8				
.12500E+01	-.20000E+02	.10750E+01	.12038E+01	-.32196E-14	.21423E+00	-.47995E+00
.12500E+01	-.20000E+02	-.10750E+01	.95685E+00	.77716E-14	-.21671E-01	.84407E-01
.12500E+01	-.20750E+02	-.21500E+01	.96093E+00	-.56974E-01	-.17764E-14	.73705E-01
.12500E+01	-.22250E+02	-.21500E+01	.94396E+00	.66168E-01	-.26645E-14	.10524E+00
.12500E+01	-.23000E+02	-.10750E+01	.86334E+00	-.97700E-14	-.46498E-01	.25650E+00
.12500E+01	-.23000E+02	.10750E+01	.89293E+00	.88818E-14	.25875E+00	.13689E+00
.12500E+01	-.22250E+02	.21500E+01	.99289E+00	.28452E+00	-.10436E-13	-.66511E-01
.12500E+01	-.20750E+02	.21500E+01	.10833E+01	.58362E-01	.86597E-14	-.17493E+00
8	6	8				
.27500E+01	-.20000E+02	.10750E+01	.12006E+01	.69944E-14	.11155E+00	-.44125E+00
.27500E+01	-.20000E+02	-.10750E+01	.10352E+01	-.32196E-13	-.24737E-03	-.71377E-01
.27500E+01	-.20750E+02	-.21500E+01	.99872E+00	-.33515E-01	.44409E-15	.14449E-02
.27500E+01	-.22250E+02	-.21500E+01	.96886E+00	.11835E+00	.62172E-14	.47435E-01
.27500E+01	-.23000E+02	-.10750E+01	.90380E+00	.12434E-13	-.13796E+00	.16581E+00
.27500E+01	-.23000E+02	.10750E+01	.90983E+00	-.35527E-14	.26441E+00	.10295E+00
.27500E+01	-.22250E+02	.21500E+01	.10029E+01	.43212E+00	-.24425E-14	-.19020E+00
.27500E+01	-.20750E+02	.21500E+01	.10962E+01	.15149E+00	.12768E-13	-.22148E+00
8	7	8				
.45000E+01	-.20000E+02	.10750E+01	.11807E+01	-.16820E-13	.19979E-01	-.38478E+00
.45000E+01	-.20000E+02	-.10750E+01	.10591E+01	.11324E-13	.21786E-01	-.12120E+00
.45000E+01	-.20750E+02	-.21500E+01	.10259E+01	.11874E-01	-.88818E-15	-.52378E-01
.45000E+01	-.22250E+02	-.21500E+01	.10204E+01	.12578E+00	.17764E-14	-.56932E-01
.45000E+01	-.23000E+02	-.10750E+01	.10223E+01	.10658E-13	-.21474E+00	-.90723E-01
.45000E+01	-.23000E+02	.10750E+01	.10534E+01	.10658E-13	.23552E+00	-.16338E+00
.45000E+01	-.22250E+02	.21500E+01	.10618E+01	.55418E+00	.37748E-14	-.42279E+00
.45000E+01	-.20750E+02	.21500E+01	.11114E+01	.23495E+00	-.46074E-14	-.28523E+00
8	8	8				
.65000E+01	-.20000E+02	.10750E+01	.11722E+01	-.75218E-14	-.79734E-01	-.37134E+00
.65000E+01	-.20000E+02	-.10750E+01	.10451E+01	-.97700E-14	.36673E-01	-.92945E-01
.65000E+01	-.20750E+02	-.21500E+01	.10324E+01	.41607E-01	-.29976E-14	-.67219E-01
.65000E+01	-.22250E+02	-.21500E+01	.10598E+01	.46831E-01	.71054E-14	-.12440E+00
.65000E+01	-.23000E+02	-.10750E+01	.11132E+01	-.39968E-14	-.22733E+00	-.28554E+00
.65000E+01	-.23000E+02	.10750E+01	.11748E+01	.71054E-13	.14386E+00	-.39082E+00
.65000E+01	-.22250E+02	.21500E+01	.11189E+01	.57452E+00	-.16431E-13	-.56115E+00
.65000E+01	-.20750E+02	.21500E+01	.11211E+01	.28102E+00	.15543E-14	-.32892E+00

8	9	8					
.85000E+01	-.20000E+02	.10750E+01	.11503E+01	.86597E-14	-.16277E+00	-.34217E+00	
.85000E+01	-.20000E+02	-.10750E+01	.96982E+00	.88818E-15	.24259E-01	.59075E-01	
.85000E+01	-.20750E+02	-.21500E+01	.10084E+01	.15603E-01	-.59952E-14	-.16999E-01	
.85000E+01	-.22250E+02	-.21500E+01	.10662E+01	-.64150E-01	.23315E-14	-.13975E+00	
.85000E+01	-.23000E+02	-.10750E+01	.11405E+01	-.35527E-14	-.18502E+00	-.32804E+00	
.85000E+01	-.23000E+02	.10750E+01	.12373E+01	-.14921E-12	.34119E-01	-.51454E+00	
.85000E+01	-.22250E+02	.21500E+01	.11488E+01	.50318E+00	.27978E-13	-.55264E+00	
.85000E+01	-.20750E+02	.21500E+01	.11188E+01	.28696E+00	.11546E-13	-.32718E+00	
8	10	8					
.10000E+02	-.20000E+02	.10750E+01	.11075E+01	.28866E-14	-.21076E+00	-.26646E+00	
.10000E+02	-.20000E+02	-.10750E+01	.90171E+00	-.16875E-13	-.27378E-01	.18835E+00	
.10000E+02	-.20750E+02	-.21500E+01	.99257E+00	-.47983E-01	-.11102E-13	.12522E-01	
.10000E+02	-.22250E+02	-.21500E+01	.10812E+01	-.16660E+00	.11713E-13	-.19441E+00	
.10000E+02	-.23000E+02	-.10750E+01	.12553E+01	.17764E-14	-.12449E+00	-.56967E+00	
.10000E+02	-.23000E+02	.10750E+01	.13764E+01	.10658E-13	-.59997E-01	-.84879E+00	
.10000E+02	-.22250E+02	.21500E+01	.11478E+01	.40597E+00	.46629E-14	-.46789E+00	
.10000E+02	-.20750E+02	.21500E+01	.10894E+01	.27041E+00	.11102E-13	-.25568E+00	
8	11	8					
.11380E+02	-.20000E+02	.10750E+01	.10668E+01	-.84377E-14	-.23946E+00	-.19307E+00	
.11380E+02	-.20000E+02	-.10750E+01	.91000E+00	-.23093E-13	-.96495E-01	.16425E+00	
.11350E+02	-.20700E+02	-.21500E+01	.98089E+00	-.11644E+00	-.23981E-13	.24340E-01	
.11350E+02	-.22090E+02	-.21500E+01	.10745E+01	-.30003E+00	-.13323E-14	-.24075E+00	
.11380E+02	-.22780E+02	-.10750E+01	.94920E+00	.24176E+00	-.13018E+00	.23656E-01	
.11380E+02	-.22780E+02	.10750E+01	.12573E+01	.29986E+00	-.25417E+00	-.70215E+00	
.11350E+02	-.22090E+02	.21500E+01	.11168E+01	.26723E+00	.11990E-13	-.31244E+00	
.11350E+02	-.20700E+02	.21500E+01	.10745E+01	.24731E+00	.33307E-13	-.21279E+00	
8	12	8					
.13130E+02	-.20000E+02	.10750E+01	.99974E+00	-.71054E-14	-.21206E+00	-.44324E-01	
.13130E+02	-.20000E+02	-.10750E+01	.95629E+00	-.46629E-14	-.14755E+00	.63994E-01	
.13100E+02	-.20590E+02	-.21500E+01	.97517E+00	-.17276E+00	-.88818E-15	.19221E-01	
.13100E+02	-.21770E+02	-.21500E+01	.10033E+01	-.33099E+00	-.39968E-14	-.11530E+00	
.13130E+02	-.22350E+02	-.10750E+01	.77187E+00	.20360E+00	-.36128E+00	.23563E+00	
.13130E+02	-.22350E+02	.10750E+01	.10146E+01	.24833E+00	-.30825E+00	-.18403E+00	
.13100E+02	-.21770E+02	.21500E+01	.10276E+01	.19154E+00	.82157E-14	-.92138E-01	
.13100E+02	-.20590E+02	.21500E+01	.10284E+01	.22808E+00	.93259E-14	-.10894E+00	
9	1	6					
.15000E+02	-.20000E+02	.10750E+01	.99265E+00	.62172E-14	-.16444E+00	-.12389E-01	
.15000E+02	-.20000E+02	-.10750E+01	.97370E+00	-.29976E-14	-.15363E+00	.28349E-01	
.15000E+02	-.21070E+02	-.21500E+01	.96675E+00	-.19077E+00	-.84377E-14	.29054E-01	
.15000E+02	-.22130E+02	-.10750E+01	.89800E+00	-.12434E-13	-.47210E+00	-.29235E-01	
.15000E+02	-.22130E+02	.10750E+01	.95249E+00	-.35527E-14	-.22979E+00	.40052E-01	
.15000E+02	-.21070E+02	.21500E+01	.10020E+01	.24927E+00	-.84377E-14	-.65881E-01	
9	2	6					
.17500E+02	-.20000E+02	.10750E+01	.99691E+00	-.35527E-14	-.13512E+00	-.12081E-01	
.17500E+02	-.20000E+02	-.10750E+01	.98680E+00	-.64393E-14	-.15463E+00	.23148E-02	
.17500E+02	-.21070E+02	-.21500E+01	.98119E+00	-.15852E+00	-.12434E-13	.12144E-01	
.17500E+02	-.22130E+02	-.10750E+01	.96060E+00	-.23981E-13	-.54118E+00	-.21273E+00	
.17500E+02	-.22130E+02	.10750E+01	.99194E+00	.88818E-15	-.16858E+00	-.12360E-01	
.17500E+02	-.21070E+02	.21500E+01	.10035E+01	.26055E+00	-.97700E-14	-.74558E-01	
9	3	6					
.21000E+02	-.20000E+02	.10750E+01	.99627E+00	-.44409E-15	-.11669E+00	-.61651E-02	
.21000E+02	-.20000E+02	-.10750E+01	.99019E+00	-.61062E-15	-.15124E+00	-.33483E-02	
.21000E+02	-.21070E+02	-.21500E+01	.98597E+00	-.13305E+00	.88818E-14	.10172E-01	
.21000E+02	-.22130E+02	-.10750E+01	.97287E+00	.12434E-13	-.58272E+00	-.28097E+00	
.21000E+02	-.22130E+02	.10750E+01	.99380E+00	.23093E-13	-.12873E+00	-.42037E-02	
.21000E+02	-.21070E+02	.21500E+01	.99965E+00	.26157E+00	-.46629E-14	-.67431E-01	
9	4	6					
.25000E+02	-.20000E+02	.10750E+01	.99471E+00	-.84377E-14	-.10266E+00	.35784E-05	
.25000E+02	-.20000E+02	-.10750E+01	.98980E+00	-.17208E-14	-.14983E+00	-.21613E-02	
.25000E+02	-.21070E+02	-.21500E+01	.98471E+00	-.96178E-01	.88818E-14	.21126E-01	
.25000E+02	-.22130E+02	-.10750E+01	.96882E+00	-.17764E-14	-.61678E+00	-.31272E+00	
.25000E+02	-.22130E+02	.10750E+01	.99074E+00	.17764E-14	-.89446E-01	.10434E-01	
.25000E+02	-.21070E+02	.21500E+01	.99679E+00	.26548E+00	.99920E-14	-.63819E-01	
9	5	6					
.29000E+02	-.20000E+02	.10750E+01	.99399E+00	-.44409E-15	-.90375E-01	.46145E-02	

.29000E+02	-.20000E+02	-.10750E+01	.98889E+00	.19117E-14	-.14994E+00	-.39528E-03
.29000E+02	-.21070E+02	-.21500E+01	.98380E+00	-.52340E-01	-.21316E-13	.29452E-01
.29000E+02	-.22130E+02	-.10750E+01	.96774E+00	-.94369E-15	-.63292E+00	-.33006E+00
.29000E+02	-.22130E+02	.10750E+01	.99043E+00	.21316E-13	-.50199E-01	.16543E-01
.29000E+02	-.21070E+02	.21500E+01	.99587E+00	.27096E+00	.99920E-14	-.64919E-01
9	6	6				
.33000E+02	-.20000E+02	.10750E+01	.99206E+00	.14211E-13	-.77198E-01	.98589E-02
.33000E+02	-.20000E+02	-.10750E+01	.98583E+00	-.11102E-15	-.14960E+00	.57617E-02
.33000E+02	-.21070E+02	-.21500E+01	.98340E+00	-.14981E-01	.97700E-14	.32760E-01
.33000E+02	-.22130E+02	-.10750E+01	.97518E+00	-.39968E-14	-.62182E+00	-.33056E+00
.33000E+02	-.22130E+02	.10750E+01	.99912E+00	-.71054E-14	-.14124E-01	.15662E-02
.33000E+02	-.21070E+02	.21500E+01	.99889E+00	.26771E+00	-.99920E-15	-.69137E-01
9	7	6				
.35630E+02	-.20000E+02	.10750E+01	.95534E+00	-.31086E-14	-.65147E-01	.83506E-01
.35630E+02	-.20000E+02	-.10750E+01	.95759E+00	-.44409E-15	-.13899E+00	.63955E-01
.35630E+02	-.21070E+02	-.21500E+01	.94338E+00	-.27081E-01	-.19540E-13	.11004E+00
.35630E+02	-.22130E+02	-.10750E+01	.10195E+01	.53291E-14	-.56955E+00	-.35559E+00
.35630E+02	-.22130E+02	.10750E+01	.10782E+01	.79936E-14	-.61813E-02	-.16100E+00
.35630E+02	-.21070E+02	.21500E+01	.10128E+01	.22271E+00	.66613E-14	-.75024E-01

ENTER COMMAND

Appendix B. Sample Job Control File

```
/JOB
HESSPFP,T10000,C1320000.
USER,
CHARGE,
DELIVER.
GET,PROP.
ATTACH,FTN5MLB/UN=LIBRARY.
FTN,I=PROP,R=3,L=0,PL=15000.
LIBGEN,P=LIBRVX.
RETURN,LGO,PROP.
GET,HESDOC.
FTN,I=HESDOC,R=3,STATIC,L=0,PL=15000.
MAP,OFF.
LDSET,LIB=LIBRVX/FTN5MLB,PRESET=ZERO.
LOAD,LGO.
NOGO.
GET,HESSIN=56POW.
HESS,HESSIN.
REWIND,BLOUT.
SAVE,BLOUT=56POW25.
COPYSBF,BLOUT.
EXIT.
/EOR
/EOI
```

1. Report No. NASA CR-178057		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle METHOD FOR THE PREDICTION OF THE INSTALLATION AERO-DYNAMICS OF A PROPFAN AT SUBSONIC SPEEDS - USER MANUAL				5. Report Date January 1986	
				6. Performing Organization Code	
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16. Abstract This document is the user's guide for the method developed earlier for predicting the slipstream-wing interaction at subsonic speeds. The analysis involves a subsonic panel code (HESS code) modified to handle the propeller onset flow. The propfan slipstream effects are superimposed on the normal flow boundary condition and are applied over the surface washed by the slipstream. The effects of the propeller slipstream are to increase the axial induced velocity, tangential velocity, and a total pressure rise in the wake of the propeller. Principles based on blade performance theory, momentum theory, and vortex theory were used to evaluate the slipstream effects. The code can be applied to any arbitrary three dimensional geometry, expressed in the form of HESS input format. The code can handle a propeller alone configuration or a propeller/nacelle/airframe configuration, operating up to high subcritical Mach numbers over a range of angles of attack. Inclusion of a viscous modelling is briefly outlined. Wind tunnel results/theory comparisons are included as examples for the application of the code to a generic supercritical wing/overwing Nacelle with a powered propfan. A sample input/output listing is provided.					
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