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LOS ALAMOS • NEW MEXICO

Compton Current
in Presence of Fields for LEMP 1

by

H. J. Longley

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COMPTON CURRENT IN PRESENCE OF FIELDS FOR LEMP 1

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ABSTRACT

This is a companion report to LA-4346 and LA-4347. If a Compton electron is produced by a gamma ray of energy E_γ in air and with an electromagnetic field (E_r, E_θ, B_ϕ) present, it will slow to a stop at an average position (DX, DY) . DX is the average distance the electron travels in the direction of the gamma ray and DY is the average distance the electron travels perpendicular to the direction of the gamma ray. This report gives, as a final result, the nonlinear fitted values of the functions $DX(E_\gamma, E_G, E_r, B_\phi)$ and $DY(E_\gamma, E_\theta, E_r, B_\phi)$. The uses of DX and DY in LEMP 1 are discussed.

I. INTRODUCTION

The recoil Compton electron from an incident gamma ray of energy E_γ will have an angular differential cross section given by

$$\sigma_e = 4r_0^2 \frac{(1+\gamma)^2 \cos^2 \theta_e}{[1+2\gamma+\gamma^2 \sin^2 \theta_e]^2} \left\{ 1 + \frac{2\gamma^2 \cos^4 \theta_e}{[1+2\gamma+\gamma^2 \sin^2 \theta_e][1+\gamma(\gamma+2) \sin^2 \theta_e]} - \frac{2(1+\gamma)^2 \sin^2 \theta_e \cos^2 \theta_e}{[1+\gamma(\gamma+2) \sin^2 \theta_e]^2} \right\}, \quad 1.1$$

where $r_0 = e^2/mc^2$, $\gamma = E_\gamma/mc^2$, θ_e is the angle the electron is scattered with respect to the incident gamma ray, E_γ is the gamma ray energy, e is the absolute value of the charge on the electron, m is the electron rest mass, and c is the velocity of light. The element of the solid angle of the recoil electron is $d\Omega_e = \sin \theta_e d\theta_e$. The probability that the electron will be scattered into any angle is given by the total Compton cross section; i.e.,

$$\sigma_c = \int_0^{\pi/2} \sigma_e d\Omega_e. \quad 1.2$$

The mean forward range of the electron is defined by

$$R = \frac{1}{\sigma_c} \int_0^{\pi/2} R_e \cos \theta_e \sigma_e d\Omega_e, \quad 1.3$$

where R_e is given by the fitted range-energy relation,

$$R_e = \frac{0.312 \cdot 10^3 E_e^2}{\rho(0.5 + E_e)}, \quad 1.4$$

ρ is the air density (gm/liter), E_e is the electron energy in MeV, and R_e is the electron range in centimeters. One may note that, for the solution of R in Eq. 1.3, we have

$$E_e = \frac{m_0 c^2 \gamma_\xi}{1 + \gamma_\xi}, \quad 1.5$$

where

$$\xi = \frac{2 \cos^2 \theta_e}{(1 + \gamma)^2 - \gamma(\gamma + 2) \cos^2 \theta_e}$$

If an electromagnetic field is present while the recoil electron is slowing to a stop, the electron will have a mean forward range (DX) and a mean perpendicular range (DY). We let only the field components E_r , E_θ , and B_ϕ be different from zero. The equations of motion of the electron, slowing down in air is

$$\dot{\vec{P}} = -e \left[\vec{E} + \frac{\vec{v} \times \vec{B}}{c} \right] - A \frac{\vec{P}}{|\vec{P}|}, \quad 1.6$$

where \vec{P} is the electron momentum and A is the drag force magnitude. We calculate $A = dE_e/dR_e$ from Eq. 1.4 and obtain (A in dynes, and E_e in MeV),

$$A = \frac{1.6021 \cdot 10^{-6} \rho (0.3 + E_e)^2}{312.0 E_e (0.6 + E_e)} \quad 1.7$$

We use, mostly, cgs Gaussian units so that the electric fields are in esu and B_ϕ is in gauss. With the fields present we must average over θ_e and ϕ_e (see Figure 1) to obtain DX and DY (see Figure 2).

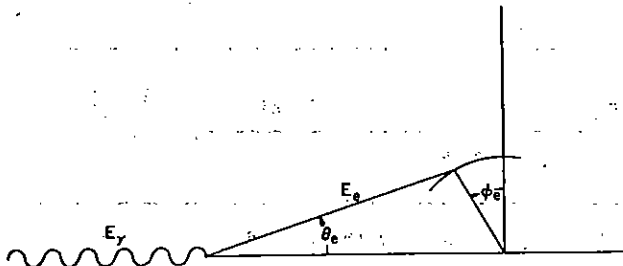


Fig. 1. Geometry for θ and ϕ .

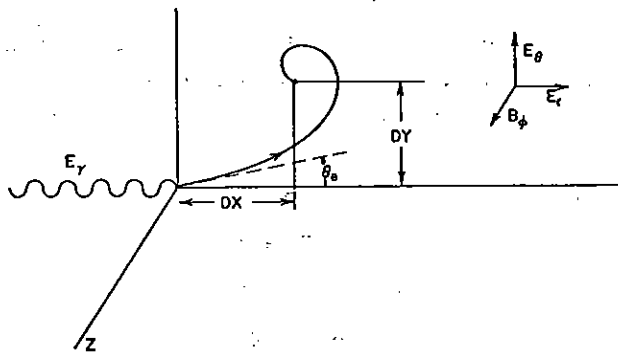


Fig. 2. Geometry for DX and DY.

The turning effect also requires a modification to the source ($\dot{\gamma}$ in ion-pairs per cm^3 per sec) in the air-ion equations of LEMP 1. Since the electric field does an amount of work on the electron given by

$$W_e = -e[E_r DX + E_\theta DY], \quad 1.8$$

we must multiply the $\dot{\gamma}$ as obtained without the turning effect by a factor given by

$$f_\gamma = \frac{\bar{E}_e - W_e}{\bar{E}_e}, \quad 1.9$$

where \bar{E}_e is the average (mean) electron energy as is defined by

$$\bar{E}_e = \frac{1}{\sigma_c} \int_0^{\pi/2} E_e \sigma_e d\Omega_e \quad 1.10$$

It should be noted that if an electron stops in a finite differencing mesh cell (as in LEMP 1), then the Compton current in the radial direction is proportional to DX and the Compton current in the θ -direction is proportional to DY.

II. CALCULATION OF DX AND DY

To obtain the average values of DX and DY, for each given set of values of E_r , E_θ , and B_ϕ , we must solve the equations of motion (Eq. 1.6) for the starting conditions determined by the values of θ_e and ϕ_e .

All values of ϕ_e are equally probable, so we select n_ϕ equal angles ϕ (dropping the e subscript here and for θ_e when convenient). Let $\delta\phi = \pi/n_\phi$ and set $\phi_1 = \delta\phi/2$. Then set $\phi_j = \phi_{j-1} + \delta\phi$ for $j = 2, n_\phi$. To obtain the starting angles θ_e , calling them θ_i for $i = 1, n_\theta$, we use the following procedure to determine these angles such that all will give equal probability for the averaging needed for DX and DY. From Eq. 1.2 let $\delta P = \sigma_c/n_\theta$. Set $P = \delta P/2$ and integrate on θ until $\int_0^\theta \sigma_e d\Omega_e = P$. This will determine θ_1 . Then add δP to P and continue the integration until $\int_0^\theta \sigma_e d\Omega_e = P$. This determines θ_2 . Continue this latter procedure until all n_θ values of θ_i have been determined. The averaging procedure must then solve the equations of motion for each combination

(θ_i, φ_j) with $i = 1$ to n_θ and $j = 1, n_\varphi$. Starting values for the equations of motion are then given by $v_r = v_e \cos \theta_i$, $v_\theta = v_e \sin \theta_i \cos \varphi_j$, $v_\varphi = v_e \sin \theta_i \sin \varphi_j$, and

$$v_e = c \sqrt{1 - \frac{1}{\left[1 + \frac{E_e^2}{mc^2}\right]^2}},$$

when E_e is given by Eq. 1.5.

The semiimplicit method used to difference the equations of motion (Eq. 1.6), which will now be given, was selected to save several factors of 2 in calculational time. For our case, Eq. 1.6 gives

$$\left. \begin{aligned} \dot{P}_r &= -e \left[E_r + \frac{v_\theta B_\varphi}{c} \right] - A \frac{P_r}{|P|} \\ \dot{P}_\theta &= -e \left[E_\theta - \frac{v_r B_\varphi}{c} \right] - A \frac{P_\theta}{|P|} \\ \dot{P}_\varphi &= -A \frac{P_\varphi}{|P|} \end{aligned} \right\}, \quad 2.1$$

where

$$|P| = \sqrt{P_r^2 + P_\theta^2 + P_\varphi^2}, \quad \vec{v} = \frac{\sqrt{1 - \beta^2}}{m} P, \quad \beta = \frac{|v|}{c}, \quad \text{and} \quad \sqrt{1 - \beta^2} = \frac{1}{\sqrt{1 + \left(\frac{|P|}{mc}\right)^2}},$$

or

$$\left. \begin{aligned} \dot{P}_r &= -eE_r - \frac{eB_\varphi}{mc} \sqrt{1 - \beta^2} P_\theta - \frac{A}{|P|} P_r \\ \dot{P}_\theta &= -eE_\theta + \frac{eB_\varphi}{mc} \sqrt{1 - \beta^2} P_r - \frac{A}{|P|} P_\theta \\ \dot{P}_\varphi &= -\frac{A}{|P|} P_\varphi \end{aligned} \right\} \cdot 2.2$$

$$\left. \begin{aligned} P_\theta^{n+1} &= \frac{\xi_3(\xi_2 \delta t) + \xi_4(1 + \xi_1 \delta t)}{(1 + \xi_1 \delta t)^2 + (\xi_2 \delta t)^2} \\ P_r^{n+1} &= \frac{\xi_3(1 + \xi_1 \delta t) - \xi_4(\xi_2 \delta t)}{(1 + \xi_1 \delta t)^2 + (\xi_1 \delta t)^2} \\ P_\varphi^{n+1} &= P_\varphi^n \frac{(1 - \xi_1 \delta t)}{1 + \xi_1 \delta t} \end{aligned} \right\} \cdot 2.6$$

Differencing, we have

$$\left. \begin{aligned} P_r^{n+1} - P_r^n &= -eE_r \delta t - \frac{eB_\varphi \delta t \sqrt{1 - \beta^2}}{mc} \frac{1}{2} (P_\theta^{n+1} + P_\theta^n) - \delta t \frac{A}{|P|} (P_r^n + P_r^{n+1}) \\ P_\theta^{n+1} - P_\theta^n &= -eE_\theta \delta t + \frac{eB_\varphi \delta t \sqrt{1 - \beta^2}}{mc} \frac{1}{2} (P_r^{n+1} + P_r^n) - \delta t \frac{A}{|P|} (P_\theta^n + P_\theta^{n+1}) \\ P_\varphi^{n+1} - P_\varphi^n &= -\frac{1}{2} \frac{A \delta t}{|P|} (P_\varphi^{n+1} + P_\varphi^n) \end{aligned} \right\}, \quad 2.3$$

where n is the cycle number and δt is the time between cycle n and cycle $n + 1$. Define

$$\left. \begin{aligned} \xi_1 &= \frac{1}{2} \frac{A}{|P|} \\ \xi_2 &= \frac{1}{2} \frac{eB_\varphi}{mc \sqrt{1 + \left(\frac{|P|}{mc}\right)^2}} \\ \xi_3 &= P_r^n - \delta t (eE_r + \xi_2 P_\theta^n + \xi_1 P_r^n) \\ \xi_4 &= P_\theta^n - \delta t (eE_\theta - \xi_2 P_r^n + \xi_1 P_\theta^n) \end{aligned} \right\}, \quad 2.4$$

so that Eqs. 2.3 give

$$\left. \begin{aligned} P_r^{n+1}(1 + \xi_1 \delta t) + P_\theta^{n+1}(\xi_2 \delta t) &= \xi_3 \\ P_r^{n+1}(-\xi_2 \delta t) + P_\theta^{n+1}(1 + \xi_1 \delta t) &= \xi_4 \end{aligned} \right\}; \quad 2.5$$

or

The nonlinear terms ξ_1 and ξ_2 used in Eqs. 2.6 were extrapolated to $n + \frac{1}{2}$ for better centering by setting

$$\xi_1^{n+\frac{1}{2}} = \xi_1^n + \frac{1}{2} \frac{\delta t}{\delta t^{n-1}} (\xi_1^n - \xi_1^{n-1}) ;$$

and similarly for $\xi_2^{n+\frac{1}{2}}$, with δt^{n-1} (the time step from cycle $n - 1$ to cycle n) and ξ_1^{n-1} being obtained from back storage. This time centering of ξ_1 and ξ_2 saves a factor of 2 in calculational time. The time step was determined by

$$\delta t = \frac{f_s}{\sqrt{(\xi_1^n)^2 + (\xi_2^n)^2}} \quad 2.7$$

where f_s (an input number) is the fraction of stability (or accuracy).

The solution of the equations of motion for each set of values of θ_{ij} was thus as follows. Initial values and back storage needed were obtained from θ_i and φ_j . Equations 2.6 then were cycled forward in time until the electron energy was smaller than ϵ_e (an input number) times E_e (initial electron energy) at θ_1 , at which time the values of DX_{ij} and DY_{ij} obtained for this i, j were added to running sums. These running sums were set to zero before starting the θ and φ averaging loops. DX and DY , due to equal probabilities in θ and φ , were then computed as the respective running sum divided by the product $n_\theta n_\varphi$. For better than one percent accuracy, we used $\epsilon_e = f_s = 0.01$. The cycle number was also carried in storage. If this cycle number was ever determined to be greater than 10,000, then this case (values of E_γ, B_φ, E_r , and E_θ) was called a "Run Away" and was discarded. These Run Away cases occurred occasionally with small B_φ and large E_r and/or E_θ ; i.e., when the acceleration of the electron by the fields exceeded the deceleration due to the drag force. It was found that $n_\theta = n_\varphi = 10$ allowed DX and DY values to converge to about one percent or better.

It should be noted from Eqs. 1.6 and 1.7 the way DX and DY scale with ρ . All values of DX and DY in the data to be presented in the Appendix was obtained by using $\rho = 1$. Thus, to obtain the cor-

rect values of DX and DY , one must divide the desired field values by ρ , find the corresponding value of DX or DY for these altered fields, and multiply this value by ρ .

The values of $DX(E_\gamma, E_\theta, E_r, B_\varphi)$ and $DY(E_\gamma, E_\theta, E_r, B_\varphi)$ are listed in the Appendix. Seven nested loops in the computer were required to obtain this data. These loops, in order, with the data values used, were

$$\left. \begin{aligned} E_\gamma &= 0.5, 1, 1.5, 2, 3, 4, 5, 6 && (\text{MeV}) \\ E_\theta &= -10, -5, 0, 5, 10 && (\text{esu}) \\ E_r &= -2, 0, 5, 10, 20 && (\text{esu}) \\ B_\varphi &= 0, 2, 5, 10, 20, 40, 70, 110, 150, 200 && (\text{gauss}) \\ \theta_i & \quad i = 1, n_\theta \\ \varphi_j & \quad j = 1, n_\varphi \end{aligned} \right\} \quad 2.8$$

Equations of Motion

The last three loops give the average values of DX and DY for the specified parameters of the first four loops.

Table I gives the dependence on gamma ray energy of computer time (C.P. time is central processor time on the CDC 6600 required to compute the data listed in the Appendix), an accuracy check as explained below, and the mean electron energy as computed very accurately by Eq. 1.10. The accuracy check shown here compares the ratio of DX , at a given E_γ and with $E_\theta = E_r = B_\varphi = 0$, as calculated by the "loops" of Eqs. 2.8 to the value of R as calculated very accurately by Eq. 1.3.

TABLE I
SOME GAMMA RAY ENERGY DEPENDENCES

E_γ (MeV)	C.P. Time (Minutes)	$\frac{DX(E_\gamma, 0)}{R}$	\bar{E}_e (MeV)
0.5	14.4	1.00070	0.17068
1	23.2	1.00024	0.44004
1.5	31.3	1.00005	0.74022
2	38.2	0.99974	1.06168
3	49.4	0.99934	1.73196
4	58.4	0.99891	2.42774
5	64.8	0.99890	3.13996
6	70.6	0.99815	3.86402

It should be noted in the Appendix that the Run Away cases, for certain parameters of Eqs. 2.8, become apparent by their absence from the data listed. For example, with $E_\gamma = 5$ MeV, $E_\theta = -10$ esu, and $E_r = 5$ esu, there is no data shown for $B_\phi = 0$ or for $B_\phi = 2$.

The data given in the Appendix is available on data cards.

III. FITTING OF DX AND DY

The data of the Appendix was fitted, for each value of E_γ , in the functional forms

and the values of a_i for this ϕ from an initial (guessed) given set of a_i 's.

Due to the expected fields in LEMP 1, the data in the Appendix was excluded from the fit if

$$\left. \begin{array}{l} |E_\theta| > E_r + 3.0 \rightarrow \text{for } B_\phi = 0 \\ |E_\theta| > E_r + 3.0 \rightarrow \text{for } B_\phi = 2 \\ |E_\theta| > 6.0 \rightarrow \text{for } B_\phi = 5 \\ E_\theta < -8.0 \rightarrow \text{for } B_\phi = 10 \\ E_\theta < -9.0 + 0.036E_r^2 \rightarrow \text{for } B_\phi = 20 \\ E_r > 19.0 + E_\theta \rightarrow \text{for } B_\phi = 40 \\ \text{and } E_r > 21.0 + E_\theta \rightarrow \text{for } B_\phi = 70 \end{array} \right\} \quad 3.5$$

$$\left(\frac{DX}{R}\right)_f = \frac{1}{1 + a_1^2 |B_\phi|^3} + \frac{a_2 E_r}{(1 + a_3^2 B_\phi^2) \sqrt{1 + \left(\frac{a_4 E_r}{1 + a_5^2 B_\phi^2}\right)^2}} + \frac{a_6 B_\phi^3 E_\theta}{1 + a_7^2 B_\phi^4} + \frac{(a_8 + a_9 B_\phi^2) E_\theta^2}{1 + a_{10}^2 B_\phi^4} \quad 3.1$$

and

$$\left(\frac{DY}{R}\right)_f = \left[\frac{d_1}{1 + d_2^2 B_\phi^2} + \frac{d_3 E_r}{(1 + d_4^2 B_\phi^2) \sqrt{1 + \left(\frac{d_5 E_r}{1 + d_6^2 B_\phi^2}\right)^2}} \right] \times [E_\theta - d_{11} B_\phi] \times \left[1 + \frac{d_7}{1 + d_8^2 B_\phi^2} (E_\theta - d_{11} B_\phi)^2 \right] + \frac{d_9 B_\phi^3}{1 + d_{10}^2 B_\phi^6} \quad 3.2$$

where $d_{11} = E_\gamma / (0.5 + E_\gamma)$, and $a_i (i = 1, 10)$ and $d_i (i = 1, 10)$ are unknowns determined by a nonlinear least squares fit code.* All the gamma ray energies, except 1 MeV, shown in Eqs. 2.8 were used. The 1 MeV data was not fitted because no 1 MeV gamma source was used in LEMP 1 (see LA-4347). The fit code requires the user to supply two subroutines, one for the "errors" and one for the derivatives of the errors with respect to the unknowns (a_i or d_i). The errors may be defined as

$$\epsilon = \left(\frac{DX}{R}\right)_f - \frac{DX}{R} \quad 3.3$$

for $L = 1$, M data points. The last term in Eq. 3.3 is obtained from the data in the Appendix. The derivatives for the fit code are given by $\partial \epsilon_L / \partial a_i$. (The DY case is, of course, similar.) The fit code finds a minimum for ϕ , where

$$\phi = \sum_{L=1}^M \epsilon_L^2 \quad 3.4$$

With the restrictions on the data imposed by Eqs. 3.5, the value of $M = 194$ was found for the 2 MeV fits. Also for 2 MeV, for the DX/R fit we found $\phi_x = 0.176$ and for the DY/R fit we found $\phi_y = 0.183$. If one defines an average error, $\bar{\epsilon}$, by

$$\bar{\epsilon} = M \bar{\epsilon}^2 \quad 3.6$$

then $\bar{\epsilon}_x = 0.0301$ and $\bar{\epsilon}_y = 0.0306$ for the 2 MeV fits. At 0.5 MeV we had $M = 201$ with $\bar{\epsilon}_x = 0.0306$ and $\bar{\epsilon}_y = 0.0534$. At 6 MeV we had $M = 182$ with $\bar{\epsilon}_x = 0.0436$ and $\bar{\epsilon}_y = 0.0264$. The average of the average errors was less than 0.035. Equations 3.1 and 3.2 are certainly not the only functional forms which can be used. In fact, the author knows of better forms now. However, the average errors obtained in these fits are considered to be quite acceptable for the LEMP 1 calculations.

We will not report the unknowns in the form of Eqs. 3.1 and 3.2, but will report them in the more useful form

* Private communications of code "FIT2" from William Anderson.

$$\frac{1}{\rho} \left(\frac{DX}{R} \right)_f = \frac{1}{1 + a_1 |B_\phi|^3} + \frac{a_2 E_r}{(1 + a_3 B_\phi^2) \sqrt{1 + \left(\frac{a_4 E_r}{1 + a_5 B_\phi^2} \right)^2}} + \frac{a_6 B_\phi^3 E_\theta}{1 + a_7 B_\phi^4} + \frac{(a_8 + a_9 B_\phi^2) E_\theta^2}{1 + a_{10} B_\phi^4} \quad 3.7$$

and

$$\frac{1}{\rho} \left(\frac{DY}{R} \right)_f = \left[\frac{d_1}{1 + d_2 B_\phi^2} + \frac{d_3 E_r}{(1 + d_4 B_\phi^2) \sqrt{1 + \left(\frac{d_5 E_r}{1 + d_6 B_\phi^2} \right)^2}} \right] \times [E_\theta - d_{11} B_\phi] \times \left[1 + \frac{d_7}{1 + d_8 B_\phi^2} (E_\theta - d_{11} B_\phi)^2 \right] + \frac{d_9 B_\phi^3}{1 + d_{10} B_\phi^6} \quad 3.8$$

where we eliminated the squares of all the unknowns. There were some squared unknowns in Eqs. 3.1 and 3.2 so the fit code would not give singularities in the functions. In Eqs. 3.7 and 3.8 the density (gm/liter) dependence is accounted for if one substitutes for E_r , E_θ , and B_ϕ in these equations the true fields divided by ρ .

The values of a_i ($i = 1, 10$) in Eq. 3.7 and the values of d_i ($i = 1, 11$) as obtained from the fit code are recorded in Table II. As examples, $a_1 = 2.430 \cdot 10^{-6}$ at 0.5 MeV and $a_5 = 1.67 \cdot 10^{-16}$ at 5 MeV. It is

TABLE II
COEFFICIENTS FOR EQUATIONS 3.7 AND 3.8

	E_γ (MEV)						
	0.5	1.5	2	3	4	5	6
$a_1 \times (10^5) =$	0.2430	5.9441	9.8815	17.413	24.952	31.240	35.354
$a_2 \times (10^2) =$	-4.2364	-6.6107	-6.9100	-7.7844	-7.5221	-7.8771	-8.3449
$a_3 \times (10^3) =$	0.4875	2.5399	3.1265	4.3124	2.5585	2.8476	3.1615
$a_4 \times (10^2) =$	7.0611	9.5888	9.9550	11.489	9.9481	10.330	11.124
$a_5 \times (10^3) =$	0.7224	2.6302	3.3298	5.7653	$2.67 \cdot 10^{-14}$	$1.67 \cdot 10^{-13}$	$4.02 \cdot 10^{-13}$
$a_6 \times (10^5) =$	0.016394	0.6933	1.6965	4.5096	8.0309	11.703	16.462
$a_7 \times (10^5) =$	0.00611	0.4416	1.2430	3.6378	7.1799	10.848	15.530
$a_8 \times (10^3) =$	0.3323	0.8759	0.5645	1.7178	2.0262	2.5751	2.8628
$a_9 \times (10^5) =$	-0.06681	-0.7793	-1.0936	-3.6688	-7.5189	-14.950	-22.380
$a_{10} \times (10^5) =$	0.006214	0.34877	0.5824	3.2042	11.253	29.108	42.208
$d_1 \times (10^2) =$	-2.8651	-4.7127	-5.2250	-6.3641	-8.0546	-8.2339	-8.4004
$d_2 \times (10^3) =$	0.2805	2.4853	3.0917	4.4187	4.2738	4.7962	5.3318
$d_3 \times (10^3) =$	2.3914	3.9157	3.9507	5.4597	7.5465	7.4661	7.3465
$d_4 \times (10^3) =$	0.6774	2.8371	2.9608	4.5887	5.8472	6.0947	6.1894
$d_5 \times (10^1) =$	1.1235	1.0707	1.0051	1.1881	1.3197	1.3104	1.2926
$d_6 \times (10^3) =$	0.09344	1.4608	2.7206	3.3470	2.6370	3.2841	3.8603
$d_7 \times (10^3) =$	1.6364	5.6462	7.4260	6.0844	2.7871	3.5559	4.0895
$d_8 \times (10^2) =$	0.08647	0.8083	1.4641	1.7027	2.1844	2.7661	3.1627
$d_9 \times (10^6) =$	-4.7957	13.473	17.924	38.453	-1.7436	-1.5351	-1.1603
$d_{10} \times (10^{10}) =$	27.616	11.597	30.593	262.67	0.69675	0.69239	0.6952
$d_{11} \times (10^0) =$	0.5	0.75	0.8	0.85714	0.88889	0.90909	0.92308

evident from Table II that, in a few cases, a coefficient is not a smooth function of E_γ . This undesirable feature is caused by two circumstances: one, the functional form (Eq. 3.1 or 3.2) is not selected properly and/or two, the fit code may find a different minimum for ϕ . There are, of course, usually many minimums for ϕ on its n-dimensional parameter surface (n = 10 in our case). Table II

indicates our functional form is probably good enough. If one wanted to fit the coefficients as a function of E_γ , then one would want to "play" with the initially guessed set of coefficients given to the fit code. Since we use only the discrete gamma ray energies listed in LEMP 1 and since our average errors were acceptable, we did not pursue the problem further.

APPENDIX. VALUES OF DX AND DY

DX (cm)	DY (cm)	B_ϕ (gauss)	E_θ (esu)	E_r (esu)	R (cm)	E_γ (MEV)
.2 38 8E+02	.64 77E+01	0.	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2 39 3E+02	.7330E+01	.2000E+01	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2 39 2E+02	.8664E+01	.5000E+01	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2 36 4E+02	.1100E+02	.1000E+02	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2 18 8E+02	.1574E+02	.2000E+02	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.1 43 6E+02	.2175E+02	.4000E+02	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.4 11 8E+01	.2036E+02	.7000E+02	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
-.1 58 1E+01	.1399E+02	.1100E+03	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
-.2 53 8E+01	.8876E+01	.1500E+03	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
-.1 20 2E+01	.5731E+01	.2000E+03	-.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2 11 9E+02	.5405E+01	0.	-.1000E+02	0.	.1991E+02	.5000E+00
.2 12 2E+02	.6087E+01	.2000E+01	-.1000E+02	0.	.1991E+02	.5000E+00
.2 12 1E+02	.7149E+01	.5000E+01	-.1000E+02	0.	.1991E+02	.5000E+00
.2 10 1E+02	.9014E+01	.1000E+02	-.1000E+02	0.	.1991E+02	.5000E+00
.1 97 6E+02	.1293E+02	.2000E+02	-.1000E+02	0.	.1991E+02	.5000E+00
.1 36 9E+02	.1897E+02	.4000E+02	-.1000E+02	0.	.1991E+02	.5000E+00
.3 85 4E+01	.1888E+02	.7000E+02	-.1000E+02	0.	.1991E+02	.5000E+00
-.1 80 8E+01	.1306E+02	.1100E+03	-.1000E+02	0.	.1991E+02	.5000E+00
-.2 63 1E+01	.8211E+01	.1500E+03	-.1000E+02	0.	.1991E+02	.5000E+00
-.1 25 2E+01	.5285E+01	.2000E+03	-.1000E+02	0.	.1991E+02	.5000E+00
.1 67 0E+02	.3792E+01	0.	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1 67 1E+02	.4233E+01	.2000E+01	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1 67 0E+02	.4917E+01	.5000E+01	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1 65 8E+02	.6115E+01	.1000E+02	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1 59 3E+02	.8714E+01	.2000E+02	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1 21 3E+02	.1391E+02	.4000E+02	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
.3 17 7E+01	.1568E+02	.7000E+02	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
-.2 41 4E+01	.1081E+02	.1100E+03	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
-.2 86 9E+01	.6570E+01	.1500E+03	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
-.1 37 9E+01	.4184E+01	.2000E+03	-.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1 38 8E+02	.2899E+01	0.	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
.1 38 8E+02	.3218E+01	.2000E+01	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
.1 39 6E+02	.3710E+01	.5000E+01	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
.1 37 8E+02	.4568E+01	.1000E+02	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
.1 33 6E+02	.6444E+01	.2000E+02	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
.1 07 6E+02	.1065E+02	.4000E+02	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
.2 23 4E+01	.1302E+02	.7000E+02	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
-.3 07 6E+01	.8577E+01	.1100E+03	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
-.3 11 7E+01	.4940E+01	.1500E+03	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
-.1 51 2E+01	.3091E+01	.2000E+03	-.1000E+02	.1000E+07	.1991E+02	.5000E+00
.1 04 4E+02	.1958E+01	0.	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
.1 04 3E+02	.2156E+01	.2000E+01	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
.1 04 2E+02	.2461E+01	.5000E+01	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
.1 03 6E+02	.2990E+01	.1000E+02	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
.1 01 2E+02	.4147E+01	.2000E+02	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
.8 52 2E+01	.7007E+01	.4000E+02	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
-.6 07 3E+00	.8048E+01	.7000E+02	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
-.4 56 4E+01	.3839E+01	.1100E+03	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
-.3 65 4E+01	.1614E+01	.1500E+03	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
-.1 79 4E+01	.8944E+00	.2000E+03	-.1000E+02	.2000E+07	.1991E+02	.5000E+00
.2 25 2E+02	.2758E+01	0.	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2 25 3E+02	.3377E+01	.2000E+01	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2 25 0E+02	.4519E+01	.5000E+01	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00

.2231E+02	.5908E+01	.1000E+02	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2133E+02	.9047E+01	.2000E+02	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.1723E+07	.1413E+02	.4000E+02	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.9129E+01	.1651E+02	.7000E+02	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.1812E+01	.1333E+02	.1100E+03	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
-.7148E+00	.9900E+01	.1500E+03	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
-.2214E+00	.5588E+01	.2000E+03	-.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2021E+02	.7355E+01	0.	-.5000E+01	0.	.1991E+02	.5000E+00
.2022E+02	.2871E+01	.2000E+01	-.5000E+01	0.	.1991E+02	.5000E+00
.2020E+02	.3655E+01	.5000E+01	-.5000E+01	0.	.1991E+02	.5000E+00
.2005E+02	.4983E+01	.1000E+02	-.5000E+01	0.	.1991E+02	.5000E+00
.1933E+02	.7650E+01	.2000E+02	-.5000E+01	0.	.1991E+02	.5000E+00
.1610E+02	.1734E+02	.4000E+02	-.5000E+01	0.	.1991E+02	.5000E+00
.8796E+01	.1525E+02	.7000E+02	-.5000E+01	0.	.1991E+02	.5000E+00
.1581E+01	.1255E+02	.1100E+03	-.5000E+01	0.	.1991E+02	.5000E+00
-.8251E+00	.8284E+01	.1500E+03	-.5000E+01	0.	.1991E+02	.5000E+00
-.2701E+00	.5169E+01	.2000E+03	-.5000E+01	0.	.1991E+02	.5000E+00
.1620E+02	.1710E+01	0.	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1620E+02	.2066E+01	.2000E+01	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1618E+02	.2607E+01	.5000E+01	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1610E+02	.3525E+01	.1000E+02	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1570E+02	.5408E+01	.2000E+02	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1376E+02	.9121E+01	.4000E+02	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.8004E+01	.1262E+02	.7000E+02	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.9724E+00	.1067E+02	.1100E+03	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
-.1097E+01	.6763E+01	.1500E+03	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
-.3935E+00	.4131E+01	.7000E+03	-.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1358E+02	.1332E+01	0.	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1358E+02	.1599E+01	.2000E+01	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1357E+02	.2004E+01	.5000E+01	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1351E+02	.2690E+01	.1000E+02	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1324E+02	.4109E+01	.2000E+02	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1196E+02	.7064E+01	.4000E+02	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.7247E+01	.1057E+02	.7000E+02	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.3122E+00	.8859E+01	.1100E+03	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
-.1365E+01	.5251E+01	.1500E+03	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
-.5196E+00	.3099E+01	.2000E+03	-.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1032E+02	.9171E+00	0.	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1031E+02	.1089E+01	.2000E+01	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1030E+02	.1350E+01	.5000E+01	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1027E+02	.1792E+01	.1000E+02	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1012E+02	.2710E+01	.2000E+02	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
.9398E+01	.4714E+01	.4000E+02	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
.5642E+01	.7651E+01	.7000E+02	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
-.1163E+01	.4996E+01	.1100E+03	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
-.1902E+01	.2155E+01	.1500E+03	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
-.7818E+00	.1014E+01	.2000E+03	-.5000E+01	.2000E+02	.1991E+02	.5000E+00
.2213E+02	.1078E-07	0.	0.	-.2000E+01	.1991E+02	.5000E+00
.2212E+02	.5634E+00	.2000E+01	0.	-.2000E+01	.1991E+02	.5000E+00
.2206E+02	.1405E+01	.5000E+01	0.	-.2000E+01	.1991E+02	.5000E+00
.2184E+02	.2790E+01	.1000E+02	0.	-.2000E+01	.1991E+02	.5000E+00
.2099E+02	.5424E+01	.7000E+02	0.	-.2000E+01	.1991E+02	.5000E+00
.1799E+02	.9740E+01	.4000E+02	0.	-.2000E+01	.1991E+02	.5000E+00
.1192E+02	.1307E+02	.7000E+02	0.	-.2000E+01	.1991E+02	.5000E+00
.4722E+01	.1241E+02	.1100E+03	0.	-.2000E+01	.1991E+02	.5000E+00
.9836E+00	.8950E+01	.1500E+03	0.	-.2000E+01	.1991E+02	.5000E+00
.6504E+00	.5513E+01	.2000E+03	0.	-.2000E+01	.1991E+02	.5000E+00
.1993E+02	.1022E-07	0.	0.	0.	.1991E+02	.5000E+00
.1992E+02	.4743E+00	.2000E+01	0.	0.	.1991E+02	.5000E+00
.1987E+02	.1184E+01	.5000E+01	0.	0.	.1991E+02	.5000E+00
.1971E+02	.2356E+01	.1000E+02	0.	0.	.1991E+02	.5000E+00
.1907E+02	.4617E+01	.2000E+02	0.	0.	.1991E+02	.5000E+00
.1671E+02	.8526E+01	.4000E+02	0.	0.	.1991E+02	.5000E+00
.1144E+02	.1200E+02	.7000E+02	0.	0.	.1991E+02	.5000E+00
.4497E+01	.1174E+02	.1100E+03	0.	0.	.1991E+02	.5000E+00
.8513E+00	.8389E+01	.1500E+03	0.	0.	.1991E+02	.5000E+00
.6034E+00	.5116E+01	.7000E+03	0.	0.	.1991E+02	.5000E+00
.1604E+02	.9116E-08	0.	0.	.5000E+01	.1991E+02	.5000E+00
.1604E+02	.3333E+00	.2000E+01	0.	.5000E+01	.1991E+02	.5000E+00
.1601E+02	.8325E+00	.5000E+01	0.	.5000E+01	.1991E+02	.5000E+00
.1592E+02	.1661E+01	.1000E+02	0.	.5000E+01	.1991E+02	.5000E+00
.1556E+02	.3793E+01	.2000E+02	0.	.5000E+01	.1991E+02	.5000E+00
.1415E+02	.6351E+01	.4000E+02	0.	.5000E+01	.1991E+02	.5000E+00

.1034E+02	.9793E+01	.7000E+02	0.	.5000E+01	.1991E+02	.5000E+00
.3924E+01	.1027E+02	.1100E+03	0.	.5000E+01	.1991E+02	.5000E+00
.5310E+00	.7004E+01	.1500E+03	0.	.5000E+01	.1991E+02	.5000E+00
.4857E+00	.4132E+01	.2000E+03	0.	.5000E+01	.1991E+02	.5000E+00
.1348E+02	.8296E-08	0.	0.	.1000E+02	.1991E+02	.5000E+00
.1348E+02	.2520E+00	.2000E+01	0.	.1000E+02	.1991E+02	.5000E+00
.1347E+02	.6298E+00	.5000E+01	0.	.1000E+02	.1991E+02	.5000E+00
.1341E+02	.1259E+01	.1000E+02	0.	.1000E+02	.1991E+02	.5000E+00
.1318E+02	.2509E+01	.2000E+02	0.	.1000E+02	.1991E+02	.5000E+00
.1274E+02	.4951E+01	.4000E+02	0.	.1000E+02	.1991E+02	.5000E+00
.9382E+01	.8123E+01	.7000E+02	0.	.1000E+02	.1991E+02	.5000E+00
.3315E+01	.8800E+01	.1100E+03	0.	.1000E+02	.1991E+02	.5000E+00
.2262E+00	.5621E+01	.1500E+03	0.	.1000E+02	.1991E+02	.5000E+00
.3672E+00	.3153E+01	.2000E+03	0.	.1000E+02	.1991E+02	.5000E+00
.1027E+02	.7145E-08	0.	0.	.2000E+02	.1991E+02	.5000E+00
.1027E+02	.1645E+00	.2000E+01	0.	.2000E+02	.1991E+02	.5000E+00
.1026E+02	.4112E+00	.5000E+01	0.	.2000E+02	.1991E+02	.5000E+00
.1023E+02	.8227E+00	.1000E+02	0.	.2000E+02	.1991E+02	.5000E+00
.1011E+02	.1648E+01	.2000E+02	0.	.2000E+02	.1991E+02	.5000E+00
.9606E+01	.3325E+01	.4000E+02	0.	.2000E+02	.1991E+02	.5000E+00
.7773E+01	.5866E+01	.7000E+02	0.	.2000E+02	.1991E+02	.5000E+00
.1917E+01	.5970E+01	.1100E+03	0.	.2000E+02	.1991E+02	.5000E+00
.3411E+00	.2769E+01	.1500E+03	0.	.2000E+02	.1991E+02	.5000E+00
.1255E+00	.1174E+01	.2000E+03	0.	.2000E+02	.1991E+02	.5000E+00
.2252E+02	-.2758E+01	0.	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2248E+02	-.2147E+01	.2000E+01	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2237E+02	-.1251E+01	.5000E+01	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2207E+02	.1817E+00	.1000E+02	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2114E+02	.2783E+01	.2000E+02	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.1840E+02	.6844E+01	.4000E+02	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.1341E+02	.1033E+02	.7000E+02	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.7035E+01	.1120E+02	.1100E+03	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2607E+01	.8965E+01	.1500E+03	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.1426E+01	.5500E+01	.2000E+03	.5000E+01	-.2000E+01	.1991E+02	.5000E+00
.2021E+02	-.2355E+01	0.	.5000E+01	0.	.1991E+02	.5000E+00
.2018E+02	-.1846E+01	.2000E+01	.5000E+01	0.	.1991E+02	.5000E+00
.2011E+02	-.1097E+01	.5000E+01	.5000E+01	0.	.1991E+02	.5000E+00
.1989E+02	.1089E+00	.1000E+02	.5000E+01	0.	.1991E+02	.5000E+00
.1920E+02	.2335E+01	.2000E+02	.5000E+01	0.	.1991E+02	.5000E+00
.1704E+02	.5978E+01	.4000E+02	.5000E+01	0.	.1991E+02	.5000E+00
.1280E+02	.9436E+01	.7000E+02	.5000E+01	0.	.1991E+02	.5000E+00
.6804E+01	.1060E+02	.1100E+03	.5000E+01	0.	.1991E+02	.5000E+00
.2452E+01	.8471E+01	.1500E+03	.5000E+01	0.	.1991E+02	.5000E+00
.1380E+01	.5123E+01	.2000E+03	.5000E+01	0.	.1991E+02	.5000E+00
.1620E+02	-.1710E+01	0.	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1618E+02	-.1358E+01	.2000E+01	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1615E+02	-.8372E+00	.5000E+01	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1603E+02	.8113E-02	.1000E+02	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1565E+02	.1610E+01	.2000E+02	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1437E+02	.4434E+01	.4000E+02	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1143E+02	.7623E+01	.7000E+02	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.6246E+01	.9277E+01	.1100E+03	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.2074E+01	.7252E+01	.1500E+03	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1267E+01	.4187E+01	.2000E+03	.5000E+01	.5000E+01	.1991E+02	.5000E+00
.1358E+02	-.1332E+01	0.	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1357E+02	-.1068E+01	.2000E+01	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1355E+02	-.6774E+00	.5000E+01	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1348E+02	-.3898E-01	.1000E+02	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1324E+02	.1187E+01	.2000E+02	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1241E+02	.3441E+01	.4000E+02	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1027E+02	.6275E+01	.7000E+02	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.5700E+01	.8141E+01	.1100E+03	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1713E+01	.6029E+01	.1500E+03	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1156E+01	.3256E+01	.2000E+03	.5000E+01	.1000E+02	.1991E+02	.5000E+00
.1032E+02	-.9171E+00	0.	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1031E+02	-.7464E+00	.2000E+01	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1031E+02	-.4929E+00	.5000E+01	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1027E+02	-.7673E-01	.1000E+02	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1016E+02	.7336E+00	.2000E+02	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.9724E+01	.2286E+01	.4000E+02	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.8458E+01	.4481E+01	.7000E+02	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.4542E+01	.6212E+01	.1100E+03	.5000E+01	.2000E+02	.1991E+02	.5000E+00
.1067E+01	.3464E+01	.1500E+03	.5000E+01	.2000E+02	.1991E+02	.5000E+00

.9364E+00	.1372E+01	.2000E+03	.5000E+01	.2000E+07	.1991E+02	.5000E+00
.2388E+02	-.6477E+01	0.	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2379E+02	-.5654E+01	.2000E+01	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2360E+02	-.4480E+01	.5000E+01	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2314E+02	-.2683E+01	.1000E+02	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2191E+02	.3484E+00	.2000E+02	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.1893E+02	.4633E+01	.4000E+02	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.1432E+02	.8213E+01	.7000E+02	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.8717E+01	.9846E+01	.1100E+03	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.4170E+01	.8831E+01	.1500E+03	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2117E+01	.5555E+01	.2000E+03	.1000E+02	-.2000E+01	.1991E+02	.5000E+00
.2119E+02	-.5405E+01	0.	.1000E+02	0.	.1991E+02	.5000E+00
.2114E+02	-.4746E+01	.2000E+01	.1000E+02	0.	.1991E+02	.5000E+00
.2101E+02	-.3799E+01	.5000E+01	.1000E+02	0.	.1991E+02	.5000E+00
.2069E+02	-.2332E+01	.1000E+02	.1000E+02	0.	.1991E+02	.5000E+00
.1980E+02	.2085E+00	.2000E+02	.1000E+02	0.	.1991E+02	.5000E+00
.1748E+02	.4004E+01	.4000E+02	.1000E+02	0.	.1991E+02	.5000E+00
.1361E+02	.7465E+01	.7000E+02	.1000E+02	0.	.1991E+02	.5000E+00
.8452E+01	.9298E+01	.1100E+03	.1000E+02	0.	.1991E+02	.5000E+00
.4002E+01	.8409E+01	.1500E+03	.1000E+02	0.	.1991E+02	.5000E+00
.2070E+01	.5194E+01	.2000E+03	.1000E+02	0.	.1991E+02	.5000E+00
.1670E+02	-.3792E+01	0.	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1668E+02	-.3363E+01	.2000E+01	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1662E+02	-.2740E+01	.5000E+01	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1647E+02	-.1758E+01	.1000E+02	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1601E+02	.1195E-01	.2000E+02	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1467E+02	.2898E+01	.4000E+02	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1204E+02	.5970E+01	.7000E+02	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.7829E+01	.8091E+01	.1100E+03	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.3583E+01	.7387E+01	.1500E+03	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1957E+01	.4300E+01	.2000E+03	.1000E+02	.5000E+01	.1991E+02	.5000E+00
.1388E+02	-.2899E+01	0.	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1387E+02	-.2588E+01	.2000E+01	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1384E+02	-.2134E+01	.5000E+01	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1375E+02	-.1412E+01	.1000E+02	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1348E+02	-.8086E-01	.2000E+02	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1262E+02	.2200E+01	.4000E+02	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1076E+02	.4876E+01	.7000E+02	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.7254E+01	.7083E+01	.1100E+03	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.3167E+01	.6376E+01	.1500E+03	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1850E+01	.3412E+01	.2000E+03	.1000E+02	.1000E+02	.1991E+02	.5000E+00
.1044E+02	-.1958E+01	0.	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.1044E+02	-.1763E+01	.2000E+01	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.1043E+02	-.1478E+01	.5000E+01	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.1040E+02	-.1019E+01	.1000E+02	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.1028E+02	-.1557E+00	.2000E+02	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.9858E+01	.1401E+01	.4000E+02	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.8798E+01	.3438E+01	.7000E+02	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.6204E+01	.5525E+01	.1100E+03	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.2390E+01	.4214E+01	.1500E+03	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.1648E+01	.1616E+01	.2000E+03	.1000E+02	.2000E+02	.1991E+02	.5000E+00
.1114E+03	.6225E+02	0.	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.1103E+03	.7706E+02	.2000E+01	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.1038E+03	.1002E+03	.5000E+01	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.8027E+02	.1293E+03	.1000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.2967E+02	.1319E+03	.2000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
-.1157E+02	.8632E+02	.4000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
-.1805E+02	.4147E+02	.7000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
-.7653E+01	.2428E+02	.1100E+03	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
-.8301E+01	.1765E+02	.1500E+03	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
-.5146E+01	.1320E+02	.2000E+03	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.9111E+02	.4567E+02	0.	.1000E+02	0.	.7935E+02	.1000E+01
.9076E+02	.5574E+02	.2000E+01	.1000E+02	0.	.7935E+02	.1000E+01
.8605E+02	.7229E+02	.5000E+01	.1000E+02	0.	.7935E+02	.1000E+01
.6969E+02	.9807E+02	.1000E+02	.1000E+02	0.	.7935E+02	.1000E+01
.2556E+02	.1125E+03	.2000E+02	.1000E+02	0.	.7935E+02	.1000E+01
-.1438E+02	.7759E+02	.4000E+02	.1000E+02	0.	.7935E+02	.1000E+01
-.1894E+02	.3683E+02	.7000E+02	.1000E+02	0.	.7935E+02	.1000E+01
-.7919E+01	.2170E+02	.1100E+03	.1000E+02	0.	.7935E+02	.1000E+01
-.8472E+01	.1581E+02	.1500E+03	.1000E+02	0.	.7935E+02	.1000E+01
-.5232E+01	.1188E+02	.2000E+03	.1000E+02	0.	.7935E+02	.1000E+01
.6385E+02	.2678E+02	0.	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.6329E+02	.3199E+02	.2000E+01	.1000E+02	.5000E+01	.7935E+02	.1000E+01

.6117E+02	.4086E+02	.5000E+01	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
.5220E+02	.5799E+02	.1000E+02	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
.1490E+02	.8008E+02	.2000E+02	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
-.2279E+02	.5785E+02	.4000E+02	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
-.2134E+02	.2546E+02	.7000E+02	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
-.8635E+01	.1536E+02	.1100E+03	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
-.8907E+01	.1122E+02	.1500E+03	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
-.5458E+01	.8607E+01	.2000E+03	-.1000E+02	.5000E+01	.7935E+02	.1000E+01
.4956E+02	.1872E+02	0.	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
.4909E+02	.2210E+02	.2000E+01	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
.4757E+02	.2792E+02	.5000E+01	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
.4064E+02	.4031E+02	.1000E+02	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
-.2222E+01	.6010E+02	.2000E+02	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
-.3411E+02	.3811E+02	.4000E+02	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
-.2408E+02	.1403E+02	.7000E+02	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
-.9418E+01	.9086E+01	.1100E+03	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
-.9362E+01	.6624E+01	.1500E+03	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
-.5699E+01	.5339E+01	.2000E+03	-.1000E+02	.1000E+02	.7935E+02	.1000E+01
.3408E+02	.1194E+02	0.	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
.3348E+02	.1403E+02	.2000E+01	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
.3090E+02	.1823E+02	.5000E+01	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
-.7425E+02	-.2130E+02	.4000E+02	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
-.3129E+02	-.1150E+02	.7000E+02	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
-.1125E+02	-.3816E+01	.1100E+03	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
-.1041E+02	-.2774E+01	.1500E+03	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
-.6196E+01	-.1233E+01	.2000E+03	-.1000E+02	.2000E+02	.7935E+02	.1000E+01
-.9567E+02	.1967E+02	0.	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.9552E+02	.2579E+02	.2000E+01	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.9404E+02	.3518E+02	.5000E+01	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.8795E+02	.5027E+02	.1000E+02	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.6496E+02	.7118E+02	.2000E+02	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.1891E+02	.6983E+02	.4000E+02	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
-.5226E+01	.3952E+02	.7000E+02	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
-.9086E+00	.2232E+02	.1100E+03	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
-.3376E+01	.1743E+02	.1500E+03	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
-.1585E+01	.1267E+02	.2000E+03	-.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.8176E+02	.1573E+02	0.	-.5000E+01	0.	.7935E+02	.1000E+01
.8164E+02	.2049E+02	.2000E+01	-.5000E+01	0.	.7935E+02	.1000E+01
.8063E+02	.2785E+02	.5000E+01	-.5000E+01	0.	.7935E+02	.1000E+01
.7644E+02	.4019E+02	.1000E+02	-.5000E+01	0.	.7935E+02	.1000E+01
.5881E+02	.6013E+02	.2000E+02	-.5000E+01	0.	.7935E+02	.1000E+01
.1637E+02	.6339E+02	.4000E+02	-.5000E+01	0.	.7935E+02	.1000E+01
-.6203E+01	.3539E+02	.7000E+02	-.5000E+01	0.	.7935E+02	.1000E+01
-.1216E+01	.1993E+02	.1100E+03	-.5000E+01	0.	.7935E+02	.1000E+01
-.3561E+01	.1569E+02	.1500E+03	-.5000E+01	0.	.7935E+02	.1000E+01
-.1671E+01	.1141E+02	.2000E+03	-.5000E+01	0.	.7935E+02	.1000E+01
.6037E+02	.1027E+02	0.	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
.6028E+02	.1320E+02	.2000E+01	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
.5975E+02	.1778E+02	.5000E+01	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
.5765E+02	.2580E+02	.1000E+02	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
.4718E+02	.4180E+02	.2000E+02	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
.9729E+01	.4973E+02	.4000E+02	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
-.8650E+01	.2528E+02	.7000E+02	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
-.2011E+01	.1405E+02	.1100E+03	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
-.4021E+01	.1134E+02	.1500E+03	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
-.1895E+01	.8268E+01	.2000E+03	-.5000E+01	.5000E+01	.7935E+02	.1000E+01
.4803E+02	.7525E+01	0.	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4794E+02	.9576E+01	.2000E+01	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4759E+02	.1278E+02	.5000E+01	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4624E+02	.1850E+02	.1000E+02	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
.3883E+02	.3116E+02	.2000E+02	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
.1714E+01	.3734E+02	.4000E+02	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
-.1120E+02	.1509E+02	.7000E+02	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
-.2850E+01	.8218E+01	.1100E+03	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
-.4485E+01	.6992E+01	.1500E+03	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
-.2125E+01	.5141E+01	.2000E+03	-.5000E+01	.1000E+02	.7935E+02	.1000E+01
.3410E+02	.4901E+01	0.	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3400E+02	.6146E+01	.2000E+01	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3374E+02	.8101E+01	.5000E+01	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3282E+02	.1167E+02	.1000E+02	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
.2448E+02	.7041E+02	.2000E+02	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
-.2502E+02	-.7880E+00	.4000E+02	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
-.1719E+02	-.7759E+01	.7000E+02	-.5000E+01	.2000E+02	.7935E+02	.1000E+01

-.4734E+01	-.3763E+01	.1100E+03	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
-.5463E+01	-.1870E+01	.1500E+03	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
-.2589E+01	-.1168E+01	.2000E+03	-.5000E+01	.2000E+02	.7935E+02	.1000E+01
.9205E+02	.3787E-07	0.	0.	-.2000E+01	.7935E+02	.1000E+01
.9183E+02	.4957E+01	.2000E+01	0.	-.2000E+01	.7935E+02	.1000E+01
.9066E+02	.1227E+02	.5000E+01	0.	-.2000E+01	.7935E+02	.1000E+01
.8665E+02	.2372E+02	.1000E+02	0.	-.2000E+01	.7935E+02	.1000E+01
.7279E+02	.4176E+02	.2000E+02	0.	-.2000E+01	.7935E+02	.1000E+01
.3789E+02	.5458E+02	.4000E+02	0.	-.2000E+01	.7935E+02	.1000E+01
.5677E+01	.3814E+02	.7000E+02	0.	-.2000E+01	.7935E+02	.1000E+01
.4517E+01	.2068E+02	.1100E+03	0.	-.2000E+01	.7935E+02	.1000E+01
.1200E+01	.1722E+02	.1500E+03	0.	-.2000E+01	.7935E+02	.1000E+01
.1576E+01	.1213E+02	.2000E+03	0.	-.2000E+01	.7935E+02	.1000E+01
.7936E+02	.3539E-07	0.	0.	0.	.7935E+02	.1000E+01
.7921E+02	.3944E+01	.2000E+01	0.	0.	.7935E+02	.1000E+01
.7842E+02	.9800E+01	.5000E+01	0.	0.	.7935E+02	.1000E+01
.7567E+02	.1917E+02	.1000E+02	0.	0.	.7935E+02	.1000E+01
.6547E+02	.3513E+02	.2000E+02	0.	0.	.7935E+02	.1000E+01
.3532E+02	.4951E+02	.4000E+02	0.	0.	.7935E+02	.1000E+01
.4504E+01	.3454E+02	.7000E+02	0.	0.	.7935E+02	.1000E+01
.4173E+01	.1847E+02	.1100E+03	0.	0.	.7935E+02	.1000E+01
.9951E+00	.1558E+02	.1500E+03	0.	0.	.7935E+02	.1000E+01
.1484E+01	.1091E+02	.2000E+03	0.	0.	.7935E+02	.1000E+01
.5932E+02	.3071E-07	0.	0.	0.	.7935E+02	.1000E+01
.5925E+02	.2519E+01	.2000E+01	0.	.5000E+01	.7935E+02	.1000E+01
.5888E+02	.6286E+01	.5000E+01	0.	.5000E+01	.7935E+02	.1000E+01
.5754E+02	.1249E+02	.1000E+02	0.	.5000E+01	.7935E+02	.1000E+01
.5207E+02	.2426E+02	.2000E+02	0.	.5000E+01	.7935E+02	.1000E+01
.2961E+02	.3943E+02	.4000E+02	0.	.5000E+01	.7935E+02	.1000E+01
.1836E+01	.2566E+02	.7000E+02	0.	.5000E+01	.7935E+02	.1000E+01
.3314E+01	.1303E+02	.1100E+03	0.	.5000E+01	.7935E+02	.1000E+01
.4948E+00	.1151E+02	.1500E+03	0.	.5000E+01	.7935E+02	.1000E+01
.1254E+01	.7893E+01	.2000E+03	0.	.5000E+01	.7935E+02	.1000E+01
.4749E+02	.2743E-07	0.	0.	.1000E+02	.7935E+02	.1000E+01
.4745E+02	.1796E+01	.2000E+01	0.	.1000E+02	.7935E+02	.1000E+01
.4723E+02	.4492E+01	.5000E+01	0.	.1000E+02	.7935E+02	.1000E+01
.4644E+02	.8988E+01	.1000E+02	0.	.1000E+02	.7935E+02	.1000E+01
.4301E+02	.1797E+02	.2000E+02	0.	.1000E+02	.7935E+02	.1000E+01
.2432E+02	.3190E+02	.4000E+02	0.	.1000E+02	.7935E+02	.1000E+01
-.6958E+00	.1664E+02	.7000E+02	0.	.1000E+02	.7935E+02	.1000E+01
.2446E+01	.7630E+01	.1100E+03	0.	.1000E+02	.7935E+02	.1000E+01
.9449E-02	.7417E+01	.1500E+03	0.	.1000E+02	.7935E+02	.1000E+01
.1023E+01	.4889E+01	.2000E+03	0.	.1000E+02	.7935E+02	.1000E+01
.3396E+02	.2314E-07	0.	0.	.2000E+02	.7935E+02	.1000E+01
.3394E+02	.1103E+01	.2000E+01	0.	.2000E+02	.7935E+02	.1000E+01
.3383E+02	.2763E+01	.5000E+01	0.	.2000E+02	.7935E+02	.1000E+01
.3342E+02	.5565E+01	.1000E+02	0.	.2000E+02	.7935E+02	.1000E+01
.3149E+02	.1146E+02	.2000E+02	0.	.2000E+02	.7935E+02	.1000E+01
.9140E+01	.1554E+02	.4000E+02	0.	.2000E+02	.7935E+02	.1000E+01
-.5839E+01	-.3798E+01	.7000E+02	0.	.2000E+02	.7935E+02	.1000E+01
.6655E+00	-.3513E+01	.1100E+03	0.	.2000E+02	.7935E+02	.1000E+01
-.9148E+00	-.9332E+00	.1500E+03	0.	.2000E+02	.7935E+02	.1000E+01
.5483E+00	-.1182E+01	.2000E+03	0.	.2000E+02	.7935E+02	.1000E+01
.9567E+02	-.1967E+02	0.	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.9523E+02	-.1376E+02	.2000E+01	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.9364E+02	-.5437E+01	.5000E+01	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.8915E+02	.6723E+01	.1000E+02	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.7649E+02	.2466E+02	.2000E+02	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.4840E+02	.4142E+02	.4000E+02	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.1523E+02	.3683E+02	.7000E+02	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.8958E+01	.1940E+02	.1100E+03	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.5480E+01	.1692E+02	.1500E+03	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.4366E+01	.1162E+02	.2000E+03	.5000E+01	-.2000E+01	.7935E+02	.1000E+01
.8176E+02	-.1573E+02	0.	.5000E+01	0.	.7935E+02	.1000E+01
.8150E+02	-.1114E+02	.2000E+01	.5000E+01	0.	.7935E+02	.1000E+01
.8048E+02	-.4621E+01	.5000E+01	.5000E+01	0.	.7935E+02	.1000E+01
.7749E+02	.5135E+01	.1000E+02	.5000E+01	0.	.7935E+02	.1000E+01
.6841E+02	.2050E+02	.2000E+02	.5000E+01	0.	.7935E+02	.1000E+01
.4532E+02	.3722E+02	.4000E+02	.5000E+01	0.	.7935E+02	.1000E+01
.1393E+02	.3385E+02	.7000E+02	.5000E+01	0.	.7935E+02	.1000E+01
.8600E+01	.1736E+02	.1100E+03	.5000E+01	0.	.7935E+02	.1000E+01
.5262E+01	.1540E+02	.1500E+03	.5000E+01	0.	.7935E+02	.1000E+01
.4268E+01	.1046E+02	.2000E+03	.5000E+01	0.	.7935E+02	.1000E+01

.6037E+02	-.1027E+02	0.	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.6029E+07	-.7438E+01	.2000E+01	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.5988E+02	-.3370E+01	.5000E+01	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.5854E+02	.2928E+01	.1000E+02	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.5393E+02	.1383E+02	.2000E+02	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.3884E+02	.2907E+02	.4000E+02	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.1085E+02	.2647E+02	.7000E+02	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.7731E+01	.1233E+02	.1100E+03	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.4732E+01	.1161E+02	.1500E+03	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.4028E+01	.7558E+01	.2000E+03	.5000E+01	.5000E+01	.7935E+02	.1000E+01
.4803E+02	-.7525E+01	0.	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4802E+02	-.5538E+01	.2000E+01	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4782E+02	-.2669E+01	.5000E+01	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4709E+02	.1845E+01	.1000E+02	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4438E+02	.1003E+02	.2000E+02	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.3365E+02	.2331E+02	.4000E+02	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.8066E+01	.1878E+02	.7000E+02	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.6894E+01	.7317E+01	.1100E+03	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.4221E+01	.7816E+01	.1500E+03	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.3793E+01	.4669E+01	.2000E+03	.5000E+01	.1000E+02	.7935E+02	.1000E+01
.3410E+02	-.4901E+01	0.	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3414E+02	-.3695E+01	.2000E+01	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3410E+02	-.1945E+01	.5000E+01	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3382E+02	.8438E+00	.1000E+02	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3255E+02	.6121E+01	.2000E+02	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.2545E+02	.1610E+02	.4000E+02	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3246E+01	.7335E+00	.7000E+02	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.5263E+01	-.3102E+01	.1100E+03	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3285E+01	.1555E-01	.1500E+03	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.3310E+01	-.1157E+01	.2000E+03	.5000E+01	.2000E+02	.7935E+02	.1000E+01
.1114E+03	-.6225E+02	0.	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.1106E+03	-.4897E+02	.2000E+01	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.1072E+03	-.3235E+02	.5000E+01	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.9913E+02	-.1211E+02	.1000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.8225E+02	.1149E+02	.2000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.5467E+02	.3106E+02	.4000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.2384E+02	.3454E+02	.7000E+02	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.1262E+02	.1849E+02	.1100E+03	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.9420E+01	.1638E+02	.1500E+03	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.6843E+01	.1121E+02	.2000E+03	.1000E+02	-.2000E+01	.7935E+02	.1000E+01
.9111E+02	-.4567E+02	0.	.1000E+02	0.	.7935E+02	.1000E+01
.9085E+02	-.3665E+02	.2000E+01	.1000E+02	0.	.7935E+02	.1000E+01
.8909E+02	-.2509E+02	.5000E+01	.1000E+02	0.	.7935E+02	.1000E+01
.8429E+02	-.1017E+02	.1000E+02	.1000E+02	0.	.7935E+02	.1000E+01
.7281E+02	.9070E+01	.2000E+02	.1000E+02	0.	.7935E+02	.1000E+01
.5094E+02	.2758E+02	.4000E+02	.1000E+02	0.	.7935E+02	.1000E+01
.2247E+02	.3219E+02	.7000E+02	.1000E+02	0.	.7935E+02	.1000E+01
.1227E+02	.1660E+02	.1100E+03	.1000E+02	0.	.7935E+02	.1000E+01
.9205E+01	.1496E+02	.1500E+03	.1000E+02	0.	.7935E+02	.1000E+01
.6741E+01	.1009E+02	.2000E+03	.1000E+02	0.	.7935E+02	.1000E+01
.6385E+02	-.2678E+02	0.	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.6395E+02	-.2209E+02	.2000E+01	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.6350E+02	-.1588E+02	.5000E+01	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.6174E+02	-.7287E+01	.1000E+02	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.5646E+02	.5427E+01	.2000E+02	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.4325E+02	.2097E+02	.4000E+02	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.1917E+02	.2668E+02	.7000E+02	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.1143E+02	.1192E+02	.1100E+03	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.8686E+01	.1145E+02	.1500E+03	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.6494E+01	.7309E+01	.2000E+03	.1000E+02	.5000E+01	.7935E+02	.1000E+01
.4956E+02	-.1872E+02	0.	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.4975E+02	-.1566E+02	.2000E+01	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.4967E+02	-.1156E+02	.5000E+01	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.4888E+02	-.5722E+01	.1000E+02	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.4601E+02	.3505E+01	.2000E+02	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.3733E+02	.1645E+02	.4000E+02	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.1595E+02	.2108E+02	.7000E+02	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.1066E+02	.7246E+01	.1100E+03	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.8185E+01	.7967E+01	.1500E+03	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.6258E+01	.4536E+01	.2000E+03	.1000E+02	.1000E+02	.7935E+02	.1000E+01
.3408E+02	-.1194E+02	0.	.1000E+02	.2000E+02	.7935E+02	.1000E+01
.3441E+02	-.1010E+02	.2000E+01	.1000E+02	.2000E+02	.7935E+02	.1000E+01
.3462E+02	-.7660E+01	.5000E+01	.1000E+02	.2000E+02	.7935E+02	.1000E+01

.3452E+07	-.4155E+01	.1000E+02	.1000E+02	.2000E+07	.7935E+07	.1000E+01
.3343E+07	.1640E+01	.2000E+02	.1000E+02	.2000E+07	.7935E+07	.1000E+01
.2884E+07	.1095E+02	.4000E+02	.1000E+02	.2000E+07	.7935E+07	.1000E+01
.1057E+02	.6345E+01	.7000E+02	.1000E+02	.2000E+07	.7935E+07	.1000E+01
.9262E+01	-.2524E+01	.1100E+03	.1000E+02	.2000E+07	.7935E+07	.1000E+01
.7246E+01	.8384E+00	.1500E+03	.1000E+02	.2000E+07	.7935E+07	.1000E+01
.5796E+01	-.1042E+01	.2000E+03	.1000E+02	.2000E+07	.7935E+07	.1000E+01
.2466E+07	.2114E+03	0.	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.2330E+03	.2760E+03	.2000E+01	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.1841E+03	.3498E+03	.5000E+01	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.8744E+02	.3629E+03	.1000E+02	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
-.1069E+02	.2650E+03	.2000E+02	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
-.4776E+02	.1310E+03	.4000E+02	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
-.2505E+07	.5625E+02	.7000E+02	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
-.2009E+07	.3720E+02	.1100E+03	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
-.1335E+02	.2754E+02	.1500E+03	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
-.9743E+01	.1980E+02	.2000E+03	-.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.1896E+03	.1474E+03	0.	-.1000E+02	0.	.1583E+03	.1500E+01
.1799E+03	.1846E+03	.2000E+01	-.1000E+02	0.	.1583E+03	.1500E+01
.1466E+03	.2455E+03	.5000E+01	-.1000E+02	0.	.1583E+03	.1500E+01
.6868E+02	.2868E+03	.1000E+02	-.1000E+02	0.	.1583E+03	.1500E+01
-.2193E+02	.7301E+03	.2000E+02	-.1000E+02	0.	.1583E+03	.1500E+01
-.5261E+02	.1152E+03	.4000E+02	-.1000E+02	0.	.1583E+03	.1500E+01
-.2624E+02	.4882E+02	.7000E+02	-.1000E+02	0.	.1583E+03	.1500E+01
-.2056E+02	.3264E+02	.1100E+03	-.1000E+02	0.	.1583E+03	.1500E+01
-.1359E+02	.2439E+02	.1500E+03	-.1000E+02	0.	.1583E+03	.1500E+01
-.9866E+01	.1748E+02	.2000E+03	-.1000E+02	0.	.1583E+03	.1500E+01
.1237E+03	.7569E+02	0.	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
.1177E+03	.9704E+02	.2000E+01	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
.9579E+02	.1362E+03	.5000E+01	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
.2541E+02	.1887E+03	.1000E+02	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
-.5961E+02	.1650E+03	.2000E+02	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
-.6644E+07	.7741E+02	.4000E+02	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
-.2956E+02	.3061E+02	.7000E+02	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
-.2183E+02	.2134E+02	.1100E+03	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
-.1423E+02	.1653E+02	.1500E+03	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
-.1020E+02	.1171E+02	.2000E+03	-.1000E+02	.5000E+01	.1583E+03	.1500E+01
.9207E+02	.5137E+02	0.	-.1000E+02	.1000E+07	.1583E+03	.1500E+01
.8596E+02	.6635E+02	.2000E+01	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
.4710E+02	.1065E+03	.5000E+01	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.1349E+03	.1655E+03	.1000E+02	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.1337E+03	.1042E+03	.2000E+02	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.8399E+02	.3825E+02	.4000E+02	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.3353E+02	.1228E+02	.7000E+02	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.2323E+07	.1003E+02	.1100E+03	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.1491E+02	.8643E+01	.1500E+03	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.1057E+02	.5962E+01	.2000E+03	-.1000E+02	.1000E+02	.1583E+03	.1500E+01
-.1442E+03	-.7216E+02	.4000E+02	-.1000E+02	.2000E+02	.1583E+03	.1500E+01
-.4413E+02	-.2794E+02	.7000E+02	-.1000E+02	.2000E+02	.1583E+03	.1500E+01
-.2647E+02	-.1333E+02	.1100E+03	-.1000E+02	.2000E+02	.1583E+03	.1500E+01
-.1644E+02	-.7384E+01	.1500E+03	-.1000E+02	.2000E+02	.1583E+03	.1500E+01
-.1135E+02	-.5586E+01	.2000E+03	-.1000E+02	.2000E+02	.1583E+03	.1500E+01
.1970E+03	.5081E+02	0.	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1956E+03	.6899E+02	.2000E+01	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1880E+03	.9626E+02	.5000E+01	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1611E+03	.1347E+03	.1000E+02	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.8666E+02	.1617E+03	.2000E+02	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.8041E+00	.1137E+03	.4000E+02	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
-.6571E+01	.5153E+02	.7000E+02	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
-.8094E+01	.3613E+02	.1100E+03	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
-.4612E+01	.2646E+02	.1500E+03	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
-.3726E+01	.1903E+02	.2000E+03	-.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1646E+03	.3953E+02	0.	-.5000E+01	0.	.1583E+03	.1500E+01
.1636E+03	.5336E+02	.2000E+01	-.5000E+01	0.	.1583E+03	.1500E+01
.1584E+03	.7474E+02	.5000E+01	-.5000E+01	0.	.1583E+03	.1500E+01
.1393E+03	.1080E+03	.1000E+02	-.5000E+01	0.	.1583E+03	.1500E+01
.7652E+02	.1404E+03	.2000E+02	-.5000E+01	0.	.1583E+03	.1500E+01
-.4133E+01	.1012E+03	.4000E+02	-.5000E+01	0.	.1583E+03	.1500E+01
-.7771E+01	.4486E+02	.7000E+02	-.5000E+01	0.	.1583E+03	.1500E+01
-.8603E+01	.3186E+02	.1100E+03	-.5000E+01	0.	.1583E+03	.1500E+01
-.4853E+01	.2347E+02	.1500E+03	-.5000E+01	0.	.1583E+03	.1500E+01
-.3858E+01	.1679E+02	.2000E+03	-.5000E+01	0.	.1583E+03	.1500E+01
.1172E+03	.2469E+02	0.	-.5000E+01	.5000E+01	.1583E+03	.1500E+01

.1166E+03	.3292E+02	.2000E+01	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1140E+03	.4606E+02	.5000E+01	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1036E+03	.6934E+02	.1000E+02	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
.5483E+02	.1033E+03	.2000E+02	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1699E+02	.7150E+02	.4000E+02	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
-.1095E+02	.2848E+02	.7000E+02	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
-.9901E+01	.2128E+02	.1100E+03	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
-.5469E+01	.1601E+02	.1500E+03	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
-.4199E+01	.1124E+02	.2000E+03	-.5000E+01	.5000E+01	.1583E+03	.1500E+01
.9122E+02	.1765E+02	0.	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
.9073E+02	.2331E+02	.2000E+01	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
.8896E+02	.3247E+02	.5000E+01	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
.8155E+02	.4978E+02	.1000E+02	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
.3134E+02	.7834E+02	.2000E+02	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
-.3139E+02	.4038E+02	.4000E+02	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
-.1448E+02	.1199E+02	.7000E+02	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
-.1124E+02	.1069E+02	.1100E+03	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
-.6111E+01	.8552E+01	.1500E+03	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
-.4553E+01	.5708E+01	.2000E+03	-.5000E+01	.1000E+02	.1583E+03	.1500E+01
.6282E+02	.1140E+02	0.	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
.6227E+02	.1488E+02	.2000E+01	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
.6048E+02	.2074E+02	.5000E+01	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
-.4902E+03	-.3535E+03	.2000E+02	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
-.7297E+02	-.4816E+02	.4000E+02	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
-.2311E+02	-.2449E+02	.7000E+02	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
-.1402E+02	-.1126E+02	.1100E+03	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
-.7459E+01	-.6570E+01	.1500E+03	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
-.5279E+01	-.5429E+01	.2000E+03	-.5000E+01	.2000E+02	.1583E+03	.1500E+01
-.1872E+03	.6654E-07	0.	0.	-.2000E+01	.1583E+03	.1500E+01
.1863E+03	.1373E+02	.2000E+01	0.	-.2000E+01	.1583E+03	.1500E+01
.1818E+03	.3368E+02	.5000E+01	0.	-.2000E+01	.1583E+03	.1500E+01
.1672E+03	.6313E+02	.1000E+02	0.	-.2000E+01	.1583E+03	.1500E+01
.1219E+03	.1004E+03	.2000E+02	0.	-.2000E+01	.1583E+03	.1500E+01
.3731E+02	.9906E+02	.4000E+02	0.	-.2000E+01	.1583E+03	.1500E+01
.8397E+01	.4801E+02	.7000E+02	0.	-.2000E+01	.1583E+03	.1500E+01
.2752E+01	.3527E+02	.1100E+03	0.	-.2000E+01	.1583E+03	.1500E+01
.3212E+01	.2523E+02	.1500E+03	0.	-.2000E+01	.1583E+03	.1500E+01
.1726E+01	.1833E+02	.2000E+03	0.	-.2000E+01	.1583E+03	.1500E+01
.1583E+03	.6204E-07	0.	0.	0.	.1583E+03	.1500E+01
.1578E+03	.1071E+02	.2000E+01	0.	0.	.1583E+03	.1500E+01
.1549E+03	.2647E+02	.5000E+01	0.	0.	.1583E+03	.1500E+01
.1448E+03	.5079E+02	.1000E+02	0.	0.	.1583E+03	.1500E+01
.1100E+03	.8610E+02	.2000E+02	0.	0.	.1583E+03	.1500E+01
.3236E+02	.8960E+02	.4000E+02	0.	0.	.1583E+03	.1500E+01
.7221E+01	.4196E+02	.7000E+02	0.	0.	.1583E+03	.1500E+01
.2197E+01	.3129E+02	.1100E+03	0.	0.	.1583E+03	.1500E+01
.2969E+01	.2238E+02	.1500E+03	0.	0.	.1583E+03	.1500E+01
.1587E+01	.1617E+02	.2000E+03	0.	0.	.1583E+03	.1500E+01
.1147E+03	.5357E-07	0.	0.	.5000E+01	.1583E+03	.1500E+01
.1145E+03	.6621E+01	.2000E+01	0.	.5000E+01	.1583E+03	.1500E+01
.1132E+03	.1651E+02	.5000E+01	0.	.5000E+01	.1583E+03	.1500E+01
.1083E+03	.3269E+02	.1000E+02	0.	.5000E+01	.1583E+03	.1500E+01
.8777E+02	.6154E+02	.2000E+02	0.	.5000E+01	.1583E+03	.1500E+01
.2003E+02	.6758E+02	.4000E+02	0.	.5000E+01	.1583E+03	.1500E+01
.4236E+01	.2709E+02	.7000E+02	0.	.5000E+01	.1583E+03	.1500E+01
.8449E+00	.2143E+02	.1100E+03	0.	.5000E+01	.1583E+03	.1500E+01
.2358E+01	.1526E+02	.1500E+03	0.	.5000E+01	.1583E+03	.1500E+01
.1243E+01	.1082E+02	.2000E+03	0.	.5000E+01	.1583E+03	.1500E+01
.9009E+02	.4766E-07	0.	0.	.1000E+02	.1583E+03	.1500E+01
.8995E+02	.4631E+01	.2000E+01	0.	.1000E+02	.1583E+03	.1500E+01
.8918E+02	.1159E+02	.5000E+01	0.	.1000E+02	.1583E+03	.1500E+01
.8631E+02	.2329E+02	.1000E+02	0.	.1000E+02	.1583E+03	.1500E+01
.7198E+02	.4665E+02	.2000E+02	0.	.1000E+02	.1583E+03	.1500E+01
.7152E+01	.4440E+02	.4000E+02	0.	.1000E+02	.1583E+03	.1500E+01
.1134E+01	.1705E+02	.7000E+02	0.	.1000E+02	.1583E+03	.1500E+01
-.4621E+00	.1153E+02	.1100E+03	0.	.1000E+02	.1583E+03	.1500E+01
.1754E+01	.8146E+01	.1500E+03	0.	.1000E+02	.1583E+03	.1500E+01
.9032E+00	.5484E+01	.2000E+03	0.	.1000E+02	.1583E+03	.1500E+01
.6281E+02	.4014E-07	0.	0.	.2000E+02	.1583E+03	.1500E+01
.6274E+02	.2803E+01	.2000E+01	0.	.2000E+02	.1583E+03	.1500E+01
.6232E+02	.7047E+01	.5000E+01	0.	.2000E+02	.1583E+03	.1500E+01
.6068E+02	.1439E+02	.1000E+02	0.	.2000E+02	.1583E+03	.1500E+01

.4297E+02	.2849E+02	.2000E+02	0.	.2000E+02	.1583E+03	.1500E+01
-.2422E+02	-.2619E+02	.4000E+02	0.	.2000E+02	.1583E+03	.1500E+01
-.5861E+01	-.2127E+02	.7000E+02	0.	.2000E+02	.1583E+03	.1500E+01
-.3027E+01	-.9108E+01	.1100E+03	0.	.2000E+02	.1583E+03	.1500E+01
.5405E+00	-.6286E+01	.1500E+03	0.	.2000E+02	.1583E+03	.1500E+01
.2116E+00	-.5773E+01	.2000E+03	0.	.2000E+02	.1583E+03	.1500E+01
.1970E+03	-.5081E+02	0.	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1959E+03	-.3343E+02	.2000E+01	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1905E+03	-.9730E+01	.5000E+01	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1753E+03	.2238E+02	.1000E+02	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1368E+03	.6244E+02	.2000E+02	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.6449E+07	.8352E+02	.4000E+02	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.2056E+02	.4556E+02	.7000E+02	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1271E+02	.3438E+02	.1100E+03	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1009E+07	.2396E+02	.1500E+03	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.6705E+01	.1775E+02	.2000E+03	.5000E+01	-.2000E+01	.1583E+03	.1500E+01
.1646E+03	-.3953E+02	0.	.5000E+01	0.	.1583E+03	.1500E+01
.1640E+03	-.2637E+02	.2000E+01	.5000E+01	0.	.1583E+03	.1500E+01
.1607E+03	-.8241E+01	.5000E+01	.5000E+01	0.	.1583E+03	.1500E+01
.1507E+03	.1730E+02	.1000E+02	.5000E+01	0.	.1583E+03	.1500E+01
.1227E+03	.5263E+02	.2000E+02	.5000E+01	0.	.1583E+03	.1500E+01
.5966E+02	.7622E+02	.4000E+02	.5000E+01	0.	.1583E+03	.1500E+01
.1942E+02	.4002E+02	.7000E+02	.5000E+01	0.	.1583E+03	.1500E+01
.1211E+02	.3072E+02	.1100E+03	.5000E+01	0.	.1583E+03	.1500E+01
.9836E+01	.2123E+02	.1500E+03	.5000E+01	0.	.1583E+03	.1500E+01
.6562E+01	.1566E+02	.2000E+03	.5000E+01	0.	.1583E+03	.1500E+01
.1172E+03	-.2469E+02	0.	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1171E+03	-.1689E+02	.2000E+01	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1159E+03	-.6000E+01	.5000E+01	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1116E+03	.1020E+02	.1000E+02	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.9698E+02	.3631E+02	.2000E+02	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.4852E+02	.6091E+02	.4000E+02	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1665E+02	.2638E+02	.7000E+02	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.1068E+02	.2161E+02	.1100E+03	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.9191E+01	.1442E+02	.1500E+03	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.6225E+01	.1049E+02	.2000E+03	.5000E+01	.5000E+01	.1583E+03	.1500E+01
.9122E+02	-.1765E+02	0.	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.9128E+02	-.1231E+02	.2000E+01	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.9074E+02	-.4780E+01	.5000E+01	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.8847E+02	.6694E+01	.1000E+02	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.7965E+02	.2672E+02	.2000E+02	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.3746E+02	.4715E+02	.4000E+02	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.1394E+02	.1257E+02	.7000E+02	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.9333E+01	.1245E+02	.1100E+03	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.8563E+01	.7602E+01	.1500E+03	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.5904E+01	.5339E+01	.2000E+03	.5000E+01	.1000E+02	.1583E+03	.1500E+01
.6282E+02	-.1140E+02	0.	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.6307E+02	-.8160E+01	.2000E+01	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.6305E+02	-.3605E+01	.5000E+01	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.6221E+02	.3441E+01	.1000E+02	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.5771E+02	.1667E+02	.2000E+02	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.1144E+02	-.1442E+01	.4000E+02	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.8434E+01	-.1830E+02	.7000E+02	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.6836E+01	-.6723E+01	.1100E+03	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.7362E+01	-.6224E+01	.1500E+03	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.5255E+01	-.5051E+01	.2000E+03	.5000E+01	.2000E+02	.1583E+03	.1500E+01
.2466E+03	-.2114E+03	0.	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.2464E+03	-.1524E+03	.2000E+01	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.2326E+03	-.8624E+02	.5000E+01	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.2022E+03	-.2174E+02	.1000E+02	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.1513E+03	.3464E+02	.2000E+02	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.8293E+02	.6712E+02	.4000E+02	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.3028E+02	.4428E+02	.7000E+02	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.2182E+02	.3306E+02	.1100E+03	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.1612E+02	.2280E+02	.1500E+03	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.1129E+02	.1729E+02	.2000E+03	.1000E+02	-.2000E+01	.1583E+03	.1500E+01
.1896E+03	-.1424E+03	0.	.1000E+02	0.	.1583E+03	.1500E+01
.1913E+03	-.1058E+03	.2000E+01	.1000E+02	0.	.1583E+03	.1500E+01
.1855E+03	-.6362E+02	.5000E+01	.1000E+02	0.	.1583E+03	.1500E+01
.1686E+03	-.1823E+02	.1000E+02	.1000E+02	0.	.1583E+03	.1500E+01
.1340E+03	.2813E+02	.2000E+02	.1000E+02	0.	.1583E+03	.1500E+01
.7760E+02	.6088E+02	.4000E+02	.1000E+02	0.	.1583E+03	.1500E+01
.2918E+02	.3914E+02	.7000E+02	.1000E+02	0.	.1583E+03	.1500E+01

.2122E+02	.2970E+02	.1100E+03	-1000E+02	0.	.1583E+03	.1500E+01
.1585E+02	.2019E+02	.1500E+03	-1000E+02	0.	.1583E+03	.1500E+01
.1115E+02	.1527E+02	.2000E+03	-1000E+02	0.	.1583E+03	.1500E+01
.1237E+03	-.7569E+02	0.	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.1259E+03	-.5827E+02	.2000E+01	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.1252E+03	-.3773E+02	.5000E+01	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.1197E+03	-.1309E+02	.1000E+02	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.1038E+03	.1790E+02	.2000E+02	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.6630E+02	.4849E+02	.4000E+02	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.7663E+07	.2651E+02	.7000E+02	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.1978E+02	.2139E+02	.1100E+03	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.1517E+02	.1371E+02	.1500E+03	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.1082E+07	.1026E+02	.2000E+03	-1000E+02	.5000E+01	.1583E+03	.1500E+01
.9207E+02	-.5137E+02	0.	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.9444E+02	-.3999E+02	.2000E+01	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.9506E+02	-.2677E+02	.5000E+01	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.9286E+02	-.1037E+02	.1000E+02	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.8424E+02	.1225E+02	.2000E+02	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.5701E+07	.3942E+02	.4000E+02	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.2429E+02	.1372E+02	.7000E+02	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.1845E+02	.1308E+02	.1100E+03	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.1451E+02	.7205E+01	.1500E+03	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.1052E+02	.5269E+01	.2000E+03	-1000E+02	.1000E+02	.1583E+03	.1500E+01
.6310E+02	-.1841E+02	.5000E+01	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.6378E+02	-.7926E+01	.1000E+02	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.6057E+02	.6559E+01	.2000E+02	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.3868E+02	.2794E+02	.4000E+02	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.2009E+02	-.1508E+02	.7000E+02	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.1601E+02	-.4212E+01	.1100E+03	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.1336E+02	-.6032E+01	.1500E+03	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.9943E+01	-.4774E+01	.2000E+03	-1000E+02	.2000E+02	.1583E+03	.1500E+01
.4162E+03	.4819E+03	0.	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
.3667E+03	.6344E+03	.2000E+01	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
.2330E+03	.7292E+03	.5000E+01	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
.5713E+02	.6286E+03	-1000E+02	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
-.6201E+02	.3883E+03	.2000E+02	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
-.7922E+02	.1667E+03	.4000E+02	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
-.3773E+02	.8543E+02	.7000E+02	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
-.2527E+02	.4885E+02	.1100E+03	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
-.2038E+02	.3468E+02	.1500E+03	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
-.1502E+07	.2572E+02	.2000E+03	-1000E+02	-.2000E+01	.2479E+03	.2000E+01
.3014E+03	.3079E+03	0.	-1000E+02	0.	.2479E+03	.2000E+01
.2658E+03	.4112E+03	.2000E+01	-1000E+02	0.	.2479E+03	.2000E+01
.1696E+03	.5194E+03	.5000E+01	-1000E+02	0.	.2479E+03	.2000E+01
.2318E+02	.5084E+03	.1000E+02	-1000E+02	0.	.2479E+03	.2000E+01
-.8122E+02	.3366E+03	.2000E+02	-1000E+02	0.	.2479E+03	.2000E+01
-.8506E+02	.1441E+03	.4000E+02	-1000E+02	0.	.2479E+03	.2000E+01
-.3928E+02	.7464E+02	.7000E+02	-1000E+02	0.	.2479E+03	.2000E+01
-.2588E+02	.4242E+02	.1100E+03	-1000E+02	0.	.2479E+03	.2000E+01
-.2071E+02	.3012E+02	.1500E+03	-1000E+02	0.	.2479E+03	.2000E+01
-.1522E+02	.2239E+02	.2000E+03	-1000E+02	0.	.2479E+03	.2000E+01
.1842E+03	.1576E+03	0.	-1000E+02	.5000E+01	.2479E+03	.2000E+01
.1555E+03	.2184E+03	.2000E+01	-1000E+02	.5000E+01	.2479E+03	.2000E+01
.6197E+02	.3706E+03	.5000E+01	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.8813E+02	.3569E+03	.1000E+02	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.1466E+03	.2331E+03	.2000E+02	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.1018E+03	.9007E+02	.4000E+02	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.4353E+02	.4813E+02	.7000E+02	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.2750E+02	.2642E+02	.1100E+03	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.2158E+02	.1875E+02	.1500E+03	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.1577E+02	.1407E+02	.2000E+03	-1000E+02	.5000E+01	.2479E+03	.2000E+01
-.1229E+03	.1151E+03	0.	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.9484E+03	.3581E+03	.1000E+02	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.2705E+03	.1239E+03	.2000E+02	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.1237E+03	.3435E+02	.4000E+02	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.4839E+02	.2161E+02	.7000E+02	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.2932E+02	.1039E+02	.1100E+03	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.2256E+02	.7354E+01	.1500E+03	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.1635E+02	.5730E+01	.2000E+03	-1000E+02	.1000E+02	.2479E+03	.2000E+01
-.2004E+03	-.1191E+03	.4000E+02	-1000E+02	.2000E+02	.2479E+03	.2000E+01
-.5999E+02	-.3536E+02	.7000E+02	-1000E+02	.2000E+02	.2479E+03	.2000E+01
-.3377E+02	-.2272E+02	.1100E+03	-1000E+02	.2000E+02	.2479E+03	.2000E+01

-.2483E+02	-.1585E+02	.1500E+03	-.1000E+02	.2000E+02	.2479E+03	.2000E+01
-.1764E+02	-.1119E+02	.2000E+03	-.1000E+02	.2000E+02	.2479E+03	.2000E+01
.3139E+03	.9271E+02	0.	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
.3095E+03	.1283E+03	.2000E+01	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
.2897E+03	.1797E+03	.5000E+01	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
.2278E+03	.2416E+03	.1000E+02	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
.9265E+02	.2536E+03	.2000E+02	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
-.1581E+02	.1461E+03	.4000E+02	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
-.7122E+01	.7721E+02	.7000E+02	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
-.8880E+01	.4597E+02	.1100E+03	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
-.8839E+01	.3370E+02	.1500E+03	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
-.6624E+01	.2514E+02	.2000E+03	-.5000E+01	-.2000E+01	.2479E+03	.2000E+01
-.2588E+03	.7113E+02	0.	-.5000E+01	0.	.2479E+03	.2000E+01
.2557E+03	.9814E+02	.2000E+01	-.5000E+01	0.	.2479E+03	.2000E+01
.2422E+03	.1393E+03	.5000E+01	-.5000E+01	0.	.2479E+03	.2000E+01
.1958E+03	.1966E+03	.1000E+02	-.5000E+01	0.	.2479E+03	.2000E+01
.7648E+02	.2222E+03	.2000E+02	-.5000E+01	0.	.2479E+03	.2000E+01
-.2180E+02	.1273E+03	.4000E+02	-.5000E+01	0.	.2479E+03	.2000E+01
-.8660E+01	.6746E+02	.7000E+02	-.5000E+01	0.	.2479E+03	.2000E+01
-.9524E+01	.3993E+02	.1100E+03	-.5000E+01	0.	.2479E+03	.2000E+01
-.9159E+01	.2932E+02	.1500E+03	-.5000E+01	0.	.2479E+03	.2000E+01
-.6821E+01	.2191E+02	.2000E+03	-.5000E+01	0.	.2479E+03	.2000E+01
.1807E+03	.4343E+02	0.	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
.1789E+03	.5941E+02	.2000E+01	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
.1718E+03	.8533E+02	.5000E+01	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
.1426E+03	.1300E+03	.1000E+02	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
.7661E+02	.1632E+03	.2000E+02	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
-.3705E+02	.8211E+02	.4000E+02	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
-.1263E+02	.4357E+02	.7000E+02	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
-.1118E+02	.2491E+02	.1100E+03	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
-.1001E+02	.1843E+02	.1500E+03	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
-.7334E+01	.1386E+02	.2000E+03	-.5000E+01	.5000E+01	.2479E+03	.2000E+01
.1389E+03	.3068E+02	0.	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
.1375E+03	.4165E+02	.2000E+01	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
.1323E+03	.6008E+02	.5000E+01	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
.1063E+03	.9607E+02	.1000E+02	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
-.1795E+02	.1101E+03	.2000E+02	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
-.5424E+02	.3552E+02	.4000E+02	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
-.1681E+02	.1969E+02	.7000E+02	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
-.1295E+02	.9864E+01	.1100E+03	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
-.1092E+02	.7528E+01	.1500E+03	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
-.7878E+01	.5788E+01	.2000E+03	-.5000E+01	.1000E+02	.2479E+03	.2000E+01
.9371E+02	.2002E+02	0.	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
.9133E+02	.2729E+02	.2000E+01	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
-.9858E+03	-.7859E+03	.2000E+02	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
-.1070E+03	-.9178E+02	.4000E+02	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
-.2626E+02	-.3216E+02	.7000E+02	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
-.1694E+02	-.2124E+02	.1100E+03	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
-.1296E+02	-.1469E+02	.1500E+03	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
-.9081E+01	-.1054E+02	.2000E+03	-.5000E+01	.2000E+02	.2479E+03	.2000E+01
.2959E+03	.9308E-07	0.	0.	-.2000E+01	.2479E+03	.2000E+01
.2940E+03	.2583E+02	.2000E+01	0.	-.2000E+01	.2479E+03	.2000E+01
.2840E+03	.6282E+02	.5000E+01	0.	-.2000E+01	.2479E+03	.2000E+01
.2520E+03	.1145E+03	.1000E+02	0.	-.2000E+01	.2479E+03	.2000E+01
.1626E+03	.1673E+03	.2000E+02	0.	-.2000E+01	.2479E+03	.2000E+01
.3209E+02	.1317E+03	.4000E+02	0.	-.2000E+01	.2479E+03	.2000E+01
.1714E+02	.6951E+02	.7000E+02	0.	-.2000E+01	.2479E+03	.2000E+01
.5419E+01	.4362E+02	.1100E+03	0.	-.2000E+01	.2479E+03	.2000E+01
.1764E+01	.3293E+02	.1500E+03	0.	-.2000E+01	.2479E+03	.2000E+01
.1243E+01	.2467E+02	.2000E+03	0.	-.2000E+01	.2479E+03	.2000E+01
.2478E+03	.8689E-07	0.	0.	0.	.2479E+03	.2000E+01
.2465E+03	.1999E+02	.2000E+01	0.	0.	.2479E+03	.2000E+01
.2400E+03	.4915E+02	.5000E+01	0.	0.	.2479E+03	.2000E+01
.2179E+03	.9256E+02	.1000E+02	0.	0.	.2479E+03	.2000E+01
.1463E+03	.1456E+03	.2000E+02	0.	0.	.2479E+03	.2000E+01
.2556E+02	.1162E+03	.4000E+02	0.	0.	.2479E+03	.2000E+01
.1551E+02	.6060E+02	.7000E+02	0.	0.	.2479E+03	.2000E+01
.4768E+01	.3794E+02	.1100E+03	0.	0.	.2479E+03	.2000E+01
.1449E+01	.2873E+02	.1500E+03	0.	0.	.2479E+03	.2000E+01
.1054E+01	.2154E+02	.2000E+03	0.	0.	.2479E+03	.2000E+01
.1766E+03	.7508E-07	0.	0.	.5000E+01	.2479E+03	.2000E+01
.1761E+03	.1218E+02	.2000E+01	0.	.5000E+01	.2479E+03	.2000E+01

.1731E+03	.3036E+02	.5000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.1623E+03	.5989E+02	.1000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1145E+03	.1075E+03	.2000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1037E+07	.7856E+02	.4000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1147E+02	.3878E+02	.7000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.3137E+01	.2379E+02	.1100E+03	0.	.5000E+01	.2479E+03	.2000E+01
.6369E+00	.1828E+02	.1500E+03	0.	.5000E+01	.2479E+03	.2000E+01
.5679E+00	.1373E+02	.2000E+03	0.	.5000E+01	.2479E+03	.2000E+01
.1373E+03	.6681E-07	0.	0.	.1000E+02	.2479E+03	.2000E+01
.1369E+03	.8447E+01	.2000E+01	0.	.1000E+02	.2479E+03	.2000E+01
.1353E+03	.2118E+02	.5000E+01	0.	.1000E+02	.2479E+03	.2000E+01
.1286E+03	.4278E+02	.1000E+02	0.	.1000E+02	.2479E+03	.2000E+01
.8902E+02	.8302E+02	.2000E+02	0.	.1000E+02	.2479E+03	.2000E+01
-.4396E+01	.3917E+02	.4000E+02	0.	.1000E+02	.2479E+03	.2000E+01
.7384E+01	.1692E+02	.7000E+02	0.	.1000E+02	.2479E+03	.2000E+01
.1495E+01	.9592E+01	.1100E+03	0.	.1000E+02	.2479E+03	.2000E+01
-.2163E+00	.7851E+01	.1500E+03	0.	.1000E+02	.2479E+03	.2000E+01
.5450E-01	.5927E+01	.2000E+03	0.	.1000E+02	.2479E+03	.2000E+01
.9443E+02	.5643E-07	0.	0.	.2000E+02	.2479E+03	.2000E+01
.9425E+02	.5096E+01	.2000E+01	0.	.2000E+02	.2479E+03	.2000E+01
.9326E+07	.1288E+02	.5000E+01	0.	.2000E+02	.2479E+03	.2000E+01
.8865E+02	.2684E+02	.1000E+02	0.	.2000E+02	.2479E+03	.2000E+01
-.1309E+03	-.1625E+03	.2000E+02	0.	.2000E+02	.2479E+03	.2000E+01
-.4171E+02	-.6915E+02	.4000E+02	0.	.2000E+02	.2479E+03	.2000E+01
-.1701E+01	-.3073E+02	.7000E+02	0.	.2000E+02	.2479E+03	.2000E+01
-.2032E+01	-.1978E+02	.1100E+03	0.	.2000E+02	.2479E+03	.2000E+01
-.2020E+01	-.1338E+02	.1500E+03	0.	.2000E+02	.2479E+03	.2000E+01
-.1033E+01	-.9858E+01	.2000E+03	0.	.2000E+02	.2479E+03	.2000E+01
.3139E+03	-.9271E+02	0.	0.	.5000E+01	.2479E+03	.2000E+01
.3122E+03	-.5868E+02	.2000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.3010E+03	-.1329E+02	.5000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.2694E+03	.4467E+02	.1000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1952E+03	.1082E+03	.2000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.7123E+02	.1197E+03	.4000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.3625E+02	.6291E+02	.7000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1801E+02	.4179E+02	.1100E+03	0.	.5000E+01	.2479E+03	.2000E+01
.1156E+07	.3240E+02	.1500E+03	0.	.5000E+01	.2479E+03	.2000E+01
.8633E+01	.2433E+02	.2000E+03	0.	.5000E+01	.2479E+03	.2000E+01
.2588E+03	-.7113E+02	0.	0.	.5000E+01	.2479E+03	.2000E+01
.2580E+03	-.4563E+02	.2000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.2513E+03	-.1129E+02	.5000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.2307E+03	.3484E+02	.1000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1756E+03	.9242E+02	.2000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.6401E+07	.1078E+03	.4000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.3450E+02	.5476E+02	.7000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1736E+02	.3642E+02	.1100E+03	0.	.5000E+01	.2479E+03	.2000E+01
.1124E+02	.2836E+02	.1500E+03	0.	.5000E+01	.2479E+03	.2000E+01
.8451E+01	.2129E+02	.2000E+03	0.	.5000E+01	.2479E+03	.2000E+01
.1807E+03	-.4343E+02	0.	0.	.5000E+01	.2479E+03	.2000E+01
.1807E+03	-.2858E+02	.2000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.1783E+03	-.8287E+01	.5000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.1695E+03	.2092E+02	.1000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1395E+03	.6543E+02	.2000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.4743E+02	.7858E+02	.4000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.3029E+02	.3479E+02	.7000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1578E+02	.2305E+02	.1100E+03	0.	.5000E+01	.2479E+03	.2000E+01
.1046E+02	.1832E+02	.1500E+03	0.	.5000E+01	.2479E+03	.2000E+01
.7988E+01	.1371E+02	.2000E+03	0.	.5000E+01	.2479E+03	.2000E+01
.1389E+03	-.3068E+02	0.	0.	.5000E+01	.2479E+03	.2000E+01
.1392E+03	-.2057E+02	.2000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.1382E+03	-.6671E+01	.5000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.1336E+03	.1397E+02	.1000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1147E+03	.4904E+02	.2000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.3288E+02	.4651E+02	.4000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.2627E+02	.1480E+02	.7000E+02	0.	.5000E+01	.2479E+03	.2000E+01
.1424E+02	.9599E+01	.1100E+03	0.	.5000E+01	.2479E+03	.2000E+01
.9700E+01	.8324E+01	.1500E+03	0.	.5000E+01	.2479E+03	.2000E+01
.7514E+01	.6161E+01	.2000E+03	0.	.5000E+01	.2479E+03	.2000E+01
.9371E+02	-.2002E+02	0.	0.	.5000E+01	.2479E+03	.2000E+01
.9461E+02	-.1371E+02	.2000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.9474E+02	-.5232E+01	.5000E+01	0.	.5000E+01	.2479E+03	.2000E+01
.9300E+02	.7490E+01	.1000E+02	0.	.5000E+01	.2479E+03	.2000E+01

.8124E+02	.3142E+02	.2000E+02	.5000E+01	.2000E+02	.2479E+03	.2000E+01
.5059E+01	-.4721E+02	.4000E+02	.5000E+01	.2000E+02	.2479E+03	.2000E+01
.1824E+02	-.2895E+02	.7000E+02	.5000E+01	.2000E+02	.2479E+03	.2000E+01
.1122E+02	-.1819E+02	.1100E+03	.5000E+01	.2000E+02	.2479E+03	.2000E+01
.8185E+01	-.1200E+02	.1500E+03	.5000E+01	.2000E+02	.2479E+03	.2000E+01
.6531E+01	-.9085E+01	.2000E+03	.5000E+01	.2000E+02	.2479E+03	.2000E+01
.4162E+03	-.4819E+03	0.	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.4207E+03	-.3259E+03	.2000E+01	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.3866E+03	-.1626E+03	.5000E+01	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.3182E+03	-.2954E+02	.1000E+02	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.2212E+03	.6455E+02	.2000E+02	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.1035E+03	.1039E+03	.4000E+02	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.5153E+02	.5768E+02	.7000E+02	.1000E+02	-.7000E+01	.2479E+03	.2000E+01
.7911E+02	.4047E+02	.1100E+03	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.2075E+02	.3210E+02	.1500E+03	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.1563E+02	.2414E+02	.2000E+03	.1000E+02	-.2000E+01	.2479E+03	.2000E+01
.3014E+03	-.3079E+03	0.	.1000E+02	0.	.2479E+03	.2000E+01
.3112E+03	-.2151E+03	.2000E+01	.1000E+02	0.	.2479E+03	.2000E+01
.2997E+03	-.1163E+03	.5000E+01	.1000E+02	0.	.2479E+03	.2000E+01
.2631E+03	-.2490E+02	.1000E+02	.1000E+02	0.	.2479E+03	.2000E+01
.1966E+03	.5335E+02	.2000E+02	.1000E+02	0.	.2479E+03	.2000E+01
.9615E+02	.9491E+02	.4000E+02	.1000E+02	0.	.2479E+03	.2000E+01
.4971E+02	.5021E+02	.7000E+02	.1000E+02	0.	.2479E+03	.2000E+01
.2848E+02	.3539E+02	.1100E+03	.1000E+02	0.	.2479E+03	.2000E+01
.2040E+02	.2821E+02	.1500E+03	.1000E+02	0.	.2479E+03	.2000E+01
.1544E+02	.2118E+02	.2000E+03	.1000E+02	0.	.2479E+03	.2000E+01
.1842E+03	-.1576E+03	0.	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.1945E+03	-.1127E+03	.2000E+01	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.1952E+03	-.6635E+02	.5000E+01	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.1839E+03	-.1811E+02	.1000E+02	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.1529E+03	.3519E+02	.2000E+02	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.7951E+02	.7562E+02	.4000E+02	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.4550E+02	.3189E+02	.7000E+02	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.2697E+02	.2273E+02	.1100E+03	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.1961E+02	.1854E+02	.1500E+03	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.1499E+02	.1382E+02	.2000E+03	.1000E+02	.5000E+01	.2479E+03	.2000E+01
.1229E+03	-.1151E+03	0.	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.1411E+03	-.7746E+02	.2000E+01	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.1454E+03	-.4655E+02	.5000E+01	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.1414E+03	-.1456E+02	.1000E+02	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.1243E+03	.2479E+02	.2000E+02	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.6382E+02	.5648E+02	.4000E+02	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.4173E+02	.1344E+02	.7000E+02	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.2556E+02	.9980E+01	.1100E+03	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.1891E+02	.8915E+01	.1500E+03	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.1456E+02	.6497E+01	.2000E+03	.1000E+02	.1000E+02	.2479E+03	.2000E+01
.9561E+02	-.1187E+02	.1000E+02	.1000E+02	.2000E+02	.2479E+03	.2000E+01
.8918E+02	.1403E+02	.2000E+02	.1000E+02	.2000E+02	.2479E+03	.2000E+01
.3850E+02	-.1851E+02	.4000E+02	.1000E+02	.2000E+02	.2479E+03	.2000E+01
.3498E+02	-.2718E+02	.7000E+02	.1000E+02	.2000E+02	.2479E+03	.2000E+01
.2304E+02	-.1640E+02	.1100E+03	.1000E+02	.2000E+02	.2479E+03	.2000E+01
.1759E+02	-.1063E+02	.1500E+03	.1000E+02	.2000E+02	.2479E+03	.2000E+01
.1373E+02	-.8235E+01	.2000E+03	.1000E+02	.2000E+02	.2479E+03	.2000E+01
.8378E+03	.1411E+04	0.	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
.6368E+03	.1777E+04	.2000E+01	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
.2595E+03	.1690E+04	.5000E+01	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.4576E+02	.1174E+04	.1000E+02	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.1691E+03	.6170E+03	.2000E+02	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.1258E+03	.2323E+03	.4000E+02	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.7482E+02	.1289E+03	.7000E+02	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.4756E+02	.7730E+02	.1100E+03	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.3492E+02	.5583E+02	.1500E+03	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.2563E+02	.3980E+02	.2000E+03	-.1000E+02	-.2000E+01	.4443E+03	.3000E+01
.5370E+03	.8599E+03	0.	-.1000E+02	0.	.4443E+03	.3000E+01
.3919E+03	.1138E+04	.2000E+01	-.1000E+02	0.	.4443E+03	.3000E+01
.1212E+03	.1236E+04	.5000E+01	-.1000E+02	0.	.4443E+03	.3000E+01
-.1182E+03	.9637E+03	.1000E+02	-.1000E+02	0.	.4443E+03	.3000E+01
-.2028E+03	.5304E+03	.2000E+02	-.1000E+02	0.	.4443E+03	.3000E+01
-.1331E+03	.1976E+03	.4000E+02	-.1000E+02	0.	.4443E+03	.3000E+01
-.7751E+02	.1109E+03	.7000E+02	-.1000E+02	0.	.4443E+03	.3000E+01
-.4863E+02	.6657E+02	.1100E+03	-.1000E+02	0.	.4443E+03	.3000E+01
-.3547E+02	.4817E+02	.1500E+03	-.1000E+02	0.	.4443E+03	.3000E+01
-.2591E+02	.3424E+02	.2000E+03	-.1000E+02	0.	.4443E+03	.3000E+01

.2529E+03	.4802E+03	0.	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
.2672E+02	.7829E+03	.2000E+01	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.3273E+03	.9622E+03	.5000E+01	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.4121E+03	.6952E+03	.1000E+02	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.3158E+03	.3469E+03	.2000E+02	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.1556E+03	-.1144E+03	.4000E+02	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.8481E+02	.6650E+02	.7000E+02	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.5145E+02	.3995E+02	.1100E+03	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.3690E+02	.2905E+02	.1500E+03	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.2666E+02	.2037E+02	.2000E+03	-1.000E+02	.5000E+01	.4443E+03	.3000E+01
-.3519E+04	.7163E+03	.1000E+02	-1.000E+02	.1000E+02	.4443E+03	.3000E+01
-.5235E+03	.1438E+03	.2000E+02	-1.000E+02	.1000E+02	.4443E+03	.3000E+01
-.1868E+03	.2864E+02	.4000E+02	-1.000E+02	.1000E+02	.4443E+03	.3000E+01
-.9315E+02	.2186E+02	.7000E+02	-1.000E+02	.1000E+02	.4443E+03	.3000E+01
-.5452E+02	.1329E+02	.1100E+03	-1.000E+02	.1000E+02	.4443E+03	.3000E+01
-.3843E+02	.9894E+01	.1500E+03	-1.000E+02	.1000E+02	.4443E+03	.3000E+01
-.2744E+02	.6492E+01	.2000E+03	-1.000E+02	.1000E+02	.4443E+03	.3000E+01
-.3008E+03	-.2047E+03	.4000E+02	-1.000E+02	.2000E+02	.4443E+03	.3000E+01
-.1146E+03	-.7549E+02	.7000E+02	-1.000E+02	.2000E+02	.4443E+03	.3000E+01
-.6138E+02	-.4181E+02	.1100E+03	-1.000E+02	.2000E+02	.4443E+03	.3000E+01
-.4191E+02	-.2901E+02	.1500E+03	-1.000E+02	.2000E+02	.4443E+03	.3000E+01
-.2910E+02	-.2152E+02	.2000E+03	-1.000E+02	.2000E+02	.4443E+03	.3000E+01
.5732E+03	.1988E+03	0.	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
.5570E+03	.2796E+03	.2000E+01	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
.4966E+03	.3874E+03	.5000E+01	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
.3401E+03	.4817E+03	.1000E+02	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
.8753E+02	.4267E+03	.2000E+02	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
-.3109E+02	.2009E+03	.4000E+02	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
-.2618E+02	.1206E+03	.7000E+02	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
-.1944E+02	.7445E+02	.1100E+03	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
-.1509E+02	.5437E+02	.1500E+03	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
-.1172E+02	.3889E+02	.2000E+03	-.5000E+01	-.2000E+01	.4443E+03	.3000E+01
.4660E+03	.1509E+03	0.	-.5000E+01	0.	.4443E+03	.3000E+01
.4545E+03	.2131E+03	.2000E+01	-.5000E+01	0.	.4443E+03	.3000E+01
.4111E+03	.3030E+03	.5000E+01	-.5000E+01	0.	.4443E+03	.3000E+01
.2853E+03	.4002E+03	.1000E+02	-.5000E+01	0.	.4443E+03	.3000E+01
.5769E+02	.3722E+03	.2000E+02	-.5000E+01	0.	.4443E+03	.3000E+01
-.3826E+02	.1714E+03	.4000E+02	-.5000E+01	0.	.4443E+03	.3000E+01
-.2895E+02	.1042E+03	.7000E+02	-.5000E+01	0.	.4443E+03	.3000E+01
-.2053E+02	.6433E+02	.1100E+03	-.5000E+01	0.	.4443E+03	.3000E+01
-.1567E+02	.4701E+02	.1500E+03	-.5000E+01	0.	.4443E+03	.3000E+01
-.1200E+02	.3351E+02	.2000E+03	-.5000E+01	0.	.4443E+03	.3000E+01
.3185E+03	.9045E+02	0.	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
.3118E+03	.1280E+03	.2000E+01	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
.2855E+03	.1896E+03	.5000E+01	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
.1846E+03	.2781E+03	.1000E+02	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
-.2086E+02	.2575E+03	.2000E+02	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
-.5804E+02	.1005E+03	.4000E+02	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
-.3592E+02	.6373E+02	.7000E+02	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
-.2330E+02	.3918E+02	.1100E+03	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
-.1713E+02	.2865E+02	.1500E+03	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
-.1270E+02	.2006E+02	.2000E+03	-.5000E+01	.5000E+01	.4443E+03	.3000E+01
.2416E+03	.6328E+02	0.	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
.2361E+03	.8969E+02	.2000E+01	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
.2117E+03	.1375E+03	.5000E+01	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
.6755E+02	.2090E+03	.1000E+02	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
-.1289E+03	.1327E+03	.2000E+02	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
-.8214E+02	.2761E+02	.4000E+02	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
-.4319E+02	.2298E+02	.7000E+02	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
-.2613E+02	.1396E+02	.1100E+03	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
-.1865E+02	.1025E+02	.1500E+03	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
-.1342E+02	.6584E+01	.2000E+03	-.5000E+01	.1000E+02	.4443E+03	.3000E+01
-.1756E+04	-.1519E+04	.2000E+02	-.5000E+01	.2000E+02	.4443E+03	.3000E+01
-.1583E+03	-.1686E+03	.4000E+02	-.5000E+01	.2000E+02	.4443E+03	.3000E+01
-.6022E+02	-.6564E+02	.7000E+02	-.5000E+01	.2000E+02	.4443E+03	.3000E+01
-.3220E+02	-.3829E+02	.1100E+03	-.5000E+01	.2000E+02	.4443E+03	.3000E+01
-.2179E+02	-.2707E+02	.1500E+03	-.5000E+01	.2000E+02	.4443E+03	.3000E+01
-.1493E+02	-.2065E+02	.2000E+03	-.5000E+01	.2000E+02	.4443E+03	.3000E+01
.5360E+03	.1385E+06	0.	0.	-.2000E+01	.4443E+03	.3000E+01
.5306E+03	.5678E+02	.2000E+01	0.	-.2000E+01	.4443E+03	.3000E+01
.5038E+03	.1361E+03	.5000E+01	0.	-.2000E+01	.4443E+03	.3000E+01
.4276E+03	.2372E+03	.1000E+02	0.	-.2000E+01	.4443E+03	.3000E+01

.2264E+03	.3048E+03	.2000E+02	0.	-.2000E+01	.4443E+03	.3000E+01
.3828E+02	.1792E+03	.4000E+02	0.	-.2000E+01	.4443E+03	.3000E+01
.1565E+02	.1139E+03	.7000E+02	0.	-.2000E+01	.4443E+03	.3000E+01
.6152E+01	.7200E+02	.1100E+03	0.	-.2000E+01	.4443E+03	.3000E+01
.3382E+01	.5306E+02	.1500E+03	0.	-.2000E+01	.4443E+03	.3000E+01
.1426E+01	.3817E+02	.2000E+03	0.	-.2000E+01	.4443E+03	.3000E+01
.4440E+03	.1299E-06	0.	0.	0.	.4443E+03	.3000E+01
.4406E+03	.4374E+02	.2000E+01	0.	0.	.4443E+03	.3000E+01
.4231E+03	.1065E+03	.5000E+01	0.	0.	.4443E+03	.3000E+01
.3653E+03	.1941E+03	.1000E+02	0.	0.	.4443E+03	.3000E+01
.1989E+03	.2684E+03	.2000E+02	0.	0.	.4443E+03	.3000E+01
.3105E+02	.1534E+03	.4000E+02	0.	0.	.4443E+03	.3000E+01
.1276E+02	.9893E+02	.7000E+02	0.	0.	.4443E+03	.3000E+01
.5020E+01	.6245E+02	.1100E+03	0.	0.	.4443E+03	.3000E+01
.2769E+01	.4601E+02	.1500E+03	0.	0.	.4443E+03	.3000E+01
.1165E+01	.3294E+02	.2000E+03	0.	0.	.4443E+03	.3000E+01
.3111E+03	.1129E-06	0.	0.	.5000E+01	.4443E+03	.3000E+01
.3097E+03	.2638E+02	.2000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.3017E+03	.6569E+02	.5000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.2713E+03	.1286E+03	.1000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.1390E+03	.1990E+03	.2000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.1307E+02	.9180E+02	.4000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.5847E+01	.6202E+02	.7000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.2245E+01	.3871E+02	.1100E+03	0.	.5000E+01	.4443E+03	.3000E+01
.1238E+01	.2842E+02	.1500E+03	0.	.5000E+01	.4443E+03	.3000E+01
.5031E+00	.1986E+02	.2000E+03	0.	.5000E+01	.4443E+03	.3000E+01
.2394E+03	.1008E-06	0.	0.	.1000E+02	.4443E+03	.3000E+01
.2385E+03	.1816E+02	.2000E+01	0.	.1000E+02	.4443E+03	.3000E+01
.2339E+03	.4574E+02	.5000E+01	0.	.1000E+02	.4443E+03	.3000E+01
.2136E+03	.9343E+02	.1000E+02	0.	.1000E+02	.4443E+03	.3000E+01
.7394E+02	.1348E+03	.2000E+02	0.	.1000E+02	.4443E+03	.3000E+01
-.6339E+01	.2834E+02	.4000E+02	0.	.1000E+02	.4443E+03	.3000E+01
-.7775E+00	.2474E+02	.7000E+02	0.	.1000E+02	.4443E+03	.3000E+01
-.4815E+00	.1485E+02	.1100E+03	0.	.1000E+02	.4443E+03	.3000E+01
-.2701E+00	.1077E+02	.1500E+03	0.	.1000E+02	.4443E+03	.3000E+01
-.1611E+00	.6759E+01	.2000E+03	0.	.1000E+02	.4443E+03	.3000E+01
.1625E+03	.8580E-07	0.	0.	.2000E+02	.4443E+03	.3000E+01
.1619E+03	.1098E+02	.2000E+01	0.	.2000E+02	.4443E+03	.3000E+01
.1586E+03	.2817E+02	.5000E+01	0.	.2000E+02	.4443E+03	.3000E+01
-.5042E+03	-.6987E+03	.2000E+02	0.	.2000E+02	.4443E+03	.3000E+01
-.5946E+02	-.1425E+03	.4000E+02	0.	.2000E+02	.4443E+03	.3000E+01
-.1468E+02	-.5612E+02	.7000E+02	0.	.2000E+02	.4443E+03	.3000E+01
-.5960E+01	-.3457E+02	.1100E+03	0.	.2000E+02	.4443E+03	.3000E+01
-.3156E+01	-.7514E+02	.1500E+03	0.	.2000E+02	.4443E+03	.3000E+01
-.1562E+01	-.1971E+02	.2000E+03	0.	.2000E+02	.4443E+03	.3000E+01
.5732E+03	-.1988E+03	0.	.5000E+01	-.2000E+01	.4443E+03	.3000E+01
.5712E+03	-.1203E+03	.2000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.5436E+03	-.1839E+02	.5000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.4673E+03	.1014E+03	.1000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.3042E+03	.2098E+03	.2000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.9094E+02	.1654E+03	.4000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.5240E+02	.1074E+03	.7000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.2963E+02	.6957E+02	.1100E+03	0.	.5000E+01	.4443E+03	.3000E+01
.2071E+02	.5176E+02	.1500E+03	0.	.5000E+01	.4443E+03	.3000E+01
.1386E+02	.3759E+02	.2000E+03	0.	.5000E+01	.4443E+03	.3000E+01
.4660E+03	-.1509E+03	0.	.5000E+01	0.	.4443E+03	.3000E+01
.4657E+03	-.9235E+02	.2000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.4493E+03	-.1576E+02	.5000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.3994E+03	.8017E+02	.1000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.2740E+03	.1825E+03	.2000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.8326E+02	.1425E+03	.4000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.4941E+02	.9394E+02	.7000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.2847E+02	.6061E+02	.1100E+03	0.	.5000E+01	.4443E+03	.3000E+01
.2007E+02	.4504E+02	.1500E+03	0.	.5000E+01	.4443E+03	.3000E+01
.1361E+02	.3249E+02	.2000E+03	0.	.5000E+01	.4443E+03	.3000E+01
.3185E+03	-.9045E+02	0.	.5000E+01	.5000E+01	.4443E+03	.3000E+01
.3195E+03	-.5651E+02	.2000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.3137E+03	-.1182E+02	.5000E+01	0.	.5000E+01	.4443E+03	.3000E+01
.2921E+03	.4937E+02	.1000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.2174E+03	.1343E+03	.2000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.6612E+02	.8774E+02	.4000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.4240E+02	.6069E+02	.7000E+02	0.	.5000E+01	.4443E+03	.3000E+01
.2566E+02	.3837E+02	.1100E+03	0.	.5000E+01	.4443E+03	.3000E+01

.1849E+07	.2824E+02	.1500E+03	.5000E+01	.5000E+01	.4443E+03	.3000E+01
.1299E+02	.1977E+02	.2000E+03	.5000E+01	.5000E+01	.4443E+03	.3000E+01
.2416E+03	-.6328E+02	0.	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.2431E+03	-.4013E+02	.2000E+01	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.2408E+03	-.9720E+01	.5000E+01	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.2293E+03	.3366E+02	.1000E+02	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.1762E+03	.1036E+03	.2000E+02	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.5002E+07	.3149E+02	.4000E+02	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.3603E+02	.2701E+02	.7000E+02	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.2296E+02	.1592E+02	.1100E+03	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.1696E+02	.1136E+02	.1500E+03	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.1236E+02	.7030E+01	.2000E+03	.5000E+01	.1000E+02	.4443E+03	.3000E+01
.1612E+03	-.2760E+02	.2000E+01	.5000E+01	.2000E+02	.4443E+03	.3000E+01
.1628E+03	-.8228E+01	.5000E+01	.5000E+01	.2000E+02	.4443E+03	.3000E+01
.1583E+03	.1888E+02	.1000E+02	.5000E+01	.2000E+02	.4443E+03	.3000E+01
-.7294E+02	-.3223E+03	.2000E+02	.5000E+01	.2000E+02	.4443E+03	.3000E+01
.1325E+02	-.1217E+03	.4000E+02	.5000E+01	.2000E+02	.4443E+03	.3000E+01
.2439E+02	-.4613E+02	.7000E+02	.5000E+01	.2000E+02	.4443E+03	.3000E+01
.1791E+02	-.3057E+02	.1100E+03	.5000E+01	.2000E+02	.4443E+03	.3000E+01
.1417E+02	-.2312E+02	.1500E+03	.5000E+01	.2000E+02	.4443E+03	.3000E+01
.1111E+02	-.1867E+02	.2000E+03	.5000E+01	.2000E+02	.4443E+03	.3000E+01
-.8378E+03	-.1411E+04	0.	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.8660E+03	-.8884E+03	.2000E+01	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.7531E+03	-.3694E+03	.5000E+01	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.5693E+03	-.4029E+02	.1000E+02	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.3592E+03	.1343E+03	.2000E+02	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.1342E+03	.1594E+03	.4000E+02	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.8431E+02	.9963E+02	.7000E+02	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.5110E+02	.6669E+02	.1100E+03	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.3693E+02	.5020E+02	.1500E+03	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.2562E+02	.3718E+02	.2000E+03	.1000E+02	-.2000E+01	.4443E+03	.3000E+01
-.5370E+03	-.8599E+03	0.	.1000E+02	0.	.4443E+03	.3000E+01
-.5890E+03	-.5566E+03	.7000E+01	.1000E+02	0.	.4443E+03	.3000E+01
-.5618E+03	-.2557E+03	.5000E+01	.1000E+02	0.	.4443E+03	.3000E+01
-.4671E+03	-.3439E+02	.1000E+02	.1000E+02	0.	.4443E+03	.3000E+01
-.3208E+03	.1134E+03	.2000E+02	.1000E+02	0.	.4443E+03	.3000E+01
-.1244E+03	.1393E+03	.4000E+02	.1000E+02	0.	.4443E+03	.3000E+01
-.8135E+02	.8741E+02	.7000E+02	.1000E+02	0.	.4443E+03	.3000E+01
-.4996E+02	.5826E+02	.1100E+03	.1000E+02	0.	.4443E+03	.3000E+01
-.3630E+02	.4378E+02	.1500E+03	.1000E+02	0.	.4443E+03	.3000E+01
-.2537E+02	.3221E+02	.2000E+03	.1000E+02	0.	.4443E+03	.3000E+01
-.2529E+03	-.4802E+03	0.	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.3336E+03	-.2869E+03	.2000E+01	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.3496E+03	-.1404E+03	.5000E+01	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.3224E+03	-.2573E+02	.1000E+02	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.2516E+03	.7819E+02	.2000E+02	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.1057E+03	.9011E+02	.4000E+02	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.7463E+02	.5741E+02	.7000E+02	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.4727E+02	.3737E+02	.1100E+03	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.3474E+02	.2780E+02	.1500E+03	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.2479E+02	.1980E+02	.2000E+03	.1000E+02	.5000E+01	.4443E+03	.3000E+01
-.2533E+03	-.9896E+02	.5000E+01	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.2445E+03	-.2131E+02	.1000E+02	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.2055E+03	.5711E+02	.2000E+02	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.9157E+02	.3926E+02	.4000E+02	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.6886E+02	.2731E+02	.7000E+02	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.4476E+02	.1649E+02	.1100E+03	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.3323E+02	.1176E+02	.1500E+03	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.2423E+02	.7400E+01	.2000E+03	.1000E+02	.1000E+02	.4443E+03	.3000E+01
-.1470E+03	.3439E+02	.2000E+02	.1000E+02	.2000E+02	.4443E+03	.3000E+01
-.6809E+02	-.1015E+03	.4000E+02	.1000E+02	.2000E+02	.4443E+03	.3000E+01
-.5979E+02	-.3735E+02	.7000E+02	.1000E+02	.2000E+02	.4443E+03	.3000E+01
-.4031E+02	-.2669E+02	.1100E+03	.1000E+02	.2000E+02	.4443E+03	.3000E+01
-.3050E+02	-.2111E+02	.1500E+03	.1000E+02	.2000E+02	.4443E+03	.3000E+01
-.2314E+02	-.1760E+02	.2000E+03	.1000E+02	.2000E+02	.4443E+03	.3000E+01
-.1350E+04	.2796E+04	0.	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01
-.9036E+03	.3329E+04	.2000E+01	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01
-.2354E+03	.2778E+04	.5000E+01	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01
-.1685E+03	.1719E+04	.1000E+02	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01
-.2748E+03	.8356E+03	.2000E+02	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01
-.1566E+03	.3117E+03	.4000E+02	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01
-.1004E+03	.1668E+03	.7000E+02	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01
-.6266E+02	.1049E+03	.1100E+03	-.1000E+02	-.2000E+01	.6540E+03	.4000E+01

- .4 79 3E+02	. 7604E+02	. 1500E+03	- .1000E+02	- .2000E+01	. 6540E+03	. 4000E+01
- .3 77 6E+02	. 5522E+02	. 2000E+03	- .1000E+02	- .2000E+01	. 6540E+03	. 4000E+01
. 7 74 5E+03	. 1679E+04	0.	- .1000E+02	0.	. 6540E+03	. 4000E+01
. 4 61 2E+03	. 2138E+04	. 2000E+01	- .1000E+02	0.	. 6540E+03	. 4000E+01
. 3 88 4E+01	. 2058E+04	. 5000E+01	- .1000E+02	0.	. 6540E+03	. 4000E+01
- .2 82 0E+03	. 1415E+04	. 1000E+02	- .1000E+02	0.	. 6540E+03	. 4000E+01
- .3 21 1E+03	. 7131E+03	. 2000E+02	- .1000E+02	0.	. 6540E+03	. 4000E+01
- .1 66 9E+03	. 2639E+03	. 4000E+02	- .1000E+02	0.	. 6540E+03	. 4000E+01
- .1 03 8E+03	. 1420E+03	. 7000E+02	- .1000E+02	0.	. 6540E+03	. 4000E+01
- .6 39 8E+02	. 8985E+02	. 1100E+03	- .1000E+02	0.	. 6540E+03	. 4000E+01
- .4 86 2E+02	. 6536E+02	. 1500E+03	- .1000E+02	0.	. 6540E+03	. 4000E+01
- .3 81 4E+02	. 4736E+02	. 2000E+03	- .1000E+02	0.	. 6540E+03	. 4000E+01
. 8 70 9E+02	. 1294E+04	0.	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .9 46 6E+03	. 2501E+04	. 2000E+01	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .1 06 3E+04	. 1860E+04	. 5000E+01	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .7 69 4E+03	. 1019E+04	. 1000E+02	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .4 75 9E+03	. 4496E+03	. 2000E+02	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .1 98 3E+03	. 1490E+03	. 4000E+02	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .1 13 4E+03	. 8084E+02	. 7000E+02	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .6 74 9E+02	. 5241E+02	. 1100E+03	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .5 04 1E+02	. 3875E+02	. 1500E+03	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .3 91 2E+02	. 2775E+02	. 2000E+03	- .1000E+02	. 5000E+01	. 6540E+03	. 4000E+01
- .6 46 1E+04	. 1025E+04	. 1000E+02	- .1000E+02	. 1000E+02	. 6540E+03	. 4000E+01
- .7 59 1E+03	. 1572E+03	. 2000E+02	- .1000E+02	. 1000E+02	. 6540E+03	. 4000E+01
- .2 41 3E+03	. 3112E+02	. 4000E+02	- .1000E+02	. 1000E+02	. 6540E+03	. 4000E+01
- .1 25 0E+03	. 1920E+02	. 7000E+02	- .1000E+02	. 1000E+02	. 6540E+03	. 4000E+01
- .7 13 9E+02	. 1469E+02	. 1100E+03	- .1000E+02	. 1000E+02	. 6540E+03	. 4000E+01
- .5 23 0E+02	. 1210E+02	. 1500E+03	- .1000E+02	. 1000E+02	. 6540E+03	. 4000E+01
- .4 01 3E+02	. 8113E+01	. 2000E+03	- .1000E+02	. 1000E+02	. 6540E+03	. 4000E+01
- .3 94 8E+03	- .2864E+03	. 4000E+02	- .1000E+02	. 2000E+02	. 6540E+03	. 4000E+01
- .1 55 2E+03	- .1152E+03	. 7000E+02	- .1000E+02	. 2000E+02	. 6540E+03	. 4000E+01
- .8 11 2E+02	- .6328E+02	. 1100E+03	- .1000E+02	. 2000E+02	. 6540E+03	. 4000E+01
- .5 64 2E+02	- .4207E+02	. 1500E+03	- .1000E+02	. 2000E+02	. 6540E+03	. 4000E+01
- .4 23 1E+02	- .3155E+02	. 2000E+03	- .1000E+02	. 2000E+02	. 6540E+03	. 4000 5 01
. 8 50 6E+03	. 3244E+03	0.	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
. 8 16 1E+03	. 4584E+03	. 2000E+01	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
. 7 00 2E+03	. 6240E+03	. 5000E+01	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
. 4 35 5E+03	. 7321E+03	. 1000E+02	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
. 7 69 6E+02	. 5884E+03	. 2000E+02	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
- .2 84 1E+02	. 2666E+03	. 4000E+02	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
- .3 53 4E+02	. 1545E+03	. 7000E+02	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
- .2 36 3E+02	. 9909E+02	. 1100E+03	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
- .1 98 4E+02	. 7319E+02	. 1500E+03	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
- .1 75 3E+02	. 5437E+02	. 2000E+03	- .5000E+01	- .2000E+01	. 6540E+03	. 4000E+01
. 6 96 3E+03	. 2459E+03	0.	- .5000E+01	0.	. 6540E+03	. 4000E+01
. 6 61 1E+03	. 3505E+03	. 2000E+01	- .5000E+01	0.	. 6540E+03	. 4000E+01
. 5 74 4E+03	. 4934E+03	. 5000E+01	- .5000E+01	0.	. 6540E+03	. 4000E+01
. 3 54 2E+03	. 6142E+03	. 1000E+02	- .5000E+01	0.	. 6540E+03	. 4000E+01
. 3 43 2E+02	. 5987E+03	. 2000E+02	- .5000E+01	0.	. 6540E+03	. 4000E+01
- .3 85 9E+02	. 2261E+03	. 4000E+02	- .5000E+01	0.	. 6540E+03	. 4000E+01
- .3 86 8E+02	. 1317E+03	. 7000E+02	- .5000E+01	0.	. 6540E+03	. 4000E+01
- .2 50 0E+02	. 8487E+02	. 1100E+03	- .5000E+01	0.	. 6540E+03	. 4000E+01
- .2 05 2E+02	. 6290E+02	. 1500E+03	- .5000E+01	0.	. 6540E+03	. 4000E+01
- .1 79 1E+02	. 4671E+02	. 2000E+03	- .5000E+01	0.	. 6540E+03	. 4000E+01
. 4 63 8E+03	. 1468E+03	0.	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
. 4 48 1E+03	. 2124E+03	. 2000E+01	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
. 3 87 3E+03	. 3184E+03	. 5000E+01	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
. 1 88 2E+03	. 4331E+03	. 1000E+02	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
- .7 69 6E+02	. 3337E+03	. 2000E+02	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
- .6 62 8E+02	. 1285E+03	. 4000E+02	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
- .4 76 8E+02	. 7569E+02	. 7000E+02	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
- .2 86 1E+02	. 4942E+02	. 1100E+03	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
- .2 22 3E+02	. 3728E+02	. 1500E+03	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
- .1 88 6E+02	. 2761E+02	. 2000E+03	- .5000E+01	. 5000E+01	. 6540E+03	. 4000E+01
. 3 49 2E+03	. 1027E+03	0.	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
. 3 34 5E+03	. 1509E+03	. 2000E+01	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
. 2 55 6E+03	. 2421E+03	. 5000E+01	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
- .7 87 2E+02	. 2991E+03	. 1000E+02	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
- .2 27 1E+03	. 1398E+03	. 2000E+02	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
- .9 94 3E+02	. 2824E+02	. 4000E+02	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
- .5 77 3E+02	. 1924E+02	. 7000E+02	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
- .3 25 4E+02	. 1376E+02	. 1100E+03	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01
- .2 39 8E+02	. 1163E+02	. 1500E+03	- .5000E+01	. 1000E+02	. 6540E+03	. 4000E+01

-.1983E+02	.8480E+01	.2000E+03	-.5000E+01	.1000E+02	.6540E+03	.4000E+01
-.2383E+04	-.2154E+04	.2000E+02	-.5000E+01	.2000E+02	.6540E+03	.4000E+01
-.2045E+03	-.2389E+03	.4000E+02	-.5000E+01	.2000E+02	.6540E+03	.4000E+01
-.8199E+02	-.1040E+03	.7000E+02	-.5000E+01	.2000E+02	.6540E+03	.4000E+01
-.4159E+02	-.5981E+02	.1100E+03	-.5000E+01	.2000E+02	.6540E+03	.4000E+01
-.2768E+02	-.4053E+02	.1500E+03	-.5000E+01	.2000E+02	.6540E+03	.4000E+01
-.2184E+02	-.3012E+02	.2000E+03	-.5000E+01	.2000E+02	.6540E+03	.4000E+01
.7927E+03	.1758E-06	0.	0.	-.2000E+01	.6540E+03	.4000E+01
.7827E+03	.9349E+02	.2000E+01	0.	-.2000E+01	.6540E+03	.4000E+01
.7333E+03	.2215E+03	.5000E+01	0.	-.2000E+01	.6540E+03	.4000E+01
.5903E+03	.3731E+03	.1000E+02	0.	-.2000E+01	.6540E+03	.4000E+01
.2781E+03	.4379E+03	.2000E+02	0.	-.2000E+01	.6540E+03	.4000E+01
.6572E+02	.2331E+03	.4000E+02	0.	-.2000E+01	.6540E+03	.4000E+01
.1947E+02	.1446E+03	.7000E+02	0.	-.2000E+01	.6540E+03	.4000E+01
.1098E+02	.9397E+02	.1100E+03	0.	-.2000E+01	.6540E+03	.4000E+01
.5881E+01	.7037E+02	.1500E+03	0.	-.2000E+01	.6540E+03	.4000E+01
.1724E+01	.5357E+02	.2000E+03	0.	-.2000E+01	.6540E+03	.4000E+01
.6532E+03	.1657E-06	0.	0.	0.	.6540E+03	.4000E+01
.6468E+03	.7202E+02	.2000E+01	0.	0.	.6540E+03	.4000E+01
.6142E+03	.1741E+03	.5000E+01	0.	0.	.6540E+03	.4000E+01
.5097E+03	.3086E+03	.1000E+02	0.	0.	.6540E+03	.4000E+01
.2376E+03	.3845E+03	.2000E+02	0.	0.	.6540E+03	.4000E+01
.5556E+02	.1981E+03	.4000E+02	0.	0.	.6540E+03	.4000E+01
.1617E+02	.1236E+03	.7000E+02	0.	0.	.6540E+03	.4000E+01
.9565E+01	.8049E+02	.1100E+03	0.	0.	.6540E+03	.4000E+01
.5186E+01	.6046E+02	.1500E+03	0.	0.	.6540E+03	.4000E+01
.1331E+01	.4612E+02	.2000E+03	0.	0.	.6540E+03	.4000E+01
.4539E+03	.1450E-06	0.	0.	.5000E+01	.6540E+03	.4000E+01
.4511E+03	.4337E+02	.2000E+01	0.	.5000E+01	.6540E+03	.4000E+01
.4361E+03	.1079E+03	.5000E+01	0.	.5000E+01	.6540E+03	.4000E+01
.3767E+03	.2092E+03	.1000E+02	0.	.5000E+01	.6540E+03	.4000E+01
.1449E+03	.2723E+03	.2000E+02	0.	.5000E+01	.6540E+03	.4000E+01
.3017E+02	.1134E+03	.4000E+02	0.	.5000E+01	.6540E+03	.4000E+01
.7754E+01	.7187E+02	.7000E+02	0.	.5000E+01	.6540E+03	.4000E+01
.5926E+01	.4694E+02	.1100E+03	0.	.5000E+01	.6540E+03	.4000E+01
.3464E+01	.3573E+02	.1500E+03	0.	.5000E+01	.6540E+03	.4000E+01
.3649E+00	.2750E+02	.2000E+03	0.	.5000E+01	.6540E+03	.4000E+01
.3475E+03	.1299E-06	0.	0.	.1000E+02	.6540E+03	.4000E+01
.3459E+03	.2980E+02	.2000E+01	0.	.1000E+02	.6540E+03	.4000E+01
.3369E+03	.7540E+02	.5000E+01	0.	.1000E+02	.6540E+03	.4000E+01
.2922E+03	.1552E+03	.1000E+02	0.	.1000E+02	.6540E+03	.4000E+01
.4384E+07	.1474E+03	.2000E+02	0.	.1000E+02	.6540E+03	.4000E+01
.3074E+01	.2615E+02	.4000E+02	0.	.1000E+02	.6540E+03	.4000E+01
-.1048E+01	.1976E+02	.7000E+02	0.	.1000E+02	.6540E+03	.4000E+01
.2120E+01	.1323E+02	.1100E+03	0.	.1000E+02	.6540E+03	.4000E+01
.1761E+01	.1099E+02	.1500E+03	0.	.1000E+02	.6540E+03	.4000E+01
-.5734E+00	.8873E+01	.2000E+03	0.	.1000E+02	.6540E+03	.4000E+01
.2343E+03	.1115E-06	0.	0.	.2000E+02	.6540E+03	.4000E+01
.2331E+03	.1814E+02	.2000E+01	0.	.2000E+02	.6540E+03	.4000E+01
-.7804E+03	-.1162E+04	.2000E+02	0.	.2000E+02	.6540E+03	.4000E+01
-.6970E+02	-.2053E+03	.4000E+02	0.	.2000E+02	.6540E+03	.4000E+01
-.2073E+02	-.9399E+02	.7000E+02	0.	.2000E+02	.6540E+03	.4000E+01
-.5920E+01	-.5631E+02	.1100E+03	0.	.2000E+02	.6540E+03	.4000E+01
-.1754E+01	-.3930E+02	.1500E+03	0.	.2000E+02	.6540E+03	.4000E+01
-.2458E+01	-.2871E+02	.2000E+03	0.	.2000E+02	.6540E+03	.4000E+01
.8506E+03	-.3244E+03	0.	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.8500E+03	-.1918E+03	.2000E+01	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.8021E+03	-.2169E+02	.5000E+01	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.6705E+03	.1672E+03	.1000E+02	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.4052E+03	.3158E+03	.2000E+02	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.1369E+03	.2087E+03	.4000E+02	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.6625E+02	.1373E+03	.7000E+02	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.4184E+02	.8964E+02	.1100E+03	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.2945E+02	.6779E+02	.1500E+03	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.2010E+02	.5280E+02	.2000E+03	.5000E+01	-.2000E+01	.6540E+03	.4000E+01
.6863E+03	-.2459E+03	0.	.5000E+01	0.	.6540E+03	.4000E+01
.6880E+03	-.1464E+03	.2000E+01	.5000E+01	0.	.6540E+03	.4000E+01
.6599E+03	-.1875E+02	.5000E+01	.5000E+01	0.	.6540E+03	.4000E+01
.5731E+03	.1334E+03	.1000E+02	.5000E+01	0.	.6540E+03	.4000E+01
.3638E+03	.2772E+03	.2000E+02	.5000E+01	0.	.6540E+03	.4000E+01
.1268E+03	.1777E+03	.4000E+02	.5000E+01	0.	.6540E+03	.4000E+01
.6293E+02	.1177E+03	.7000E+02	.5000E+01	0.	.6540E+03	.4000E+01
.4042E+07	.7685E+02	.1100E+03	.5000E+01	0.	.6540E+03	.4000E+01

.2872E+07	.5824E+02	.1500E+03	.5000E+01	0.	.6540E+03	.4000E+01
.1967E+02	.4555E+02	.2000E+03	.5000E+01	0.	.6540E+03	.4000E+01
.4638E+03	-.1468E+03	0.	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.4669E+03	-.8969E+02	.2000E+01	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.4572E+03	-.1434E+02	.5000E+01	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.4190E+03	.8378E+02	.1000E+02	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.2833E+03	.2075E+03	.2000E+02	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.1031E+03	.1030E+03	.4000E+02	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.5496E+02	.6954E+02	.7000E+02	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.3686E+02	.4503E+02	.1100E+03	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.2697E+02	.3440E+02	.1500E+03	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.1865E+02	.2743E+02	.2000E+03	.5000E+01	.5000E+01	.6540E+03	.4000E+01
.3492E+03	-.1027E+03	0.	.5000E+01	.1000E+07	.6540E+03	.4000E+01
.3531E+03	-.6259E+02	.2000E+01	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.3494E+03	-.1202E+02	.5000E+01	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.3287E+03	.5795E+02	.1000E+02	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.2159E+03	.1557E+03	.2000E+02	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.8042E+02	.2574E+02	.4000E+02	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.4724E+02	.7125E+02	.7000E+02	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.5330E+02	.1308E+02	.1100E+03	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.2529E+02	.1054E+02	.1500E+03	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.1769E+02	.9286E+01	.2000E+03	.5000E+01	.1000E+02	.6540E+03	.4000E+01
.2345E+03	-.1095E+02	.5000E+01	.5000E+01	.2000E+02	.6540E+03	.4000E+01
.2259E+03	.3345E+02	.1000E+02	.5000E+01	.2000E+02	.6540E+03	.4000E+01
-.2964E+03	-.9605E+03	.2000E+02	.5000E+01	.2000E+02	.6540E+03	.4000E+01
.3079E+02	-.1822E+03	.4000E+02	.5000E+01	.2000E+02	.6540E+03	.4000E+01
.3163E+02	-.8398E+02	.7000E+02	.5000E+01	.2000E+02	.6540E+03	.4000E+01
.2634E+02	-.5301E+02	.1100E+03	.5000E+01	.2000E+02	.6540E+03	.4000E+01
.2198E+02	-.3798E+02	.1500E+03	.5000E+01	.2000E+02	.6540E+03	.4000E+01
.1588E+02	-.2731E+02	.2000E+03	.5000E+01	.2000E+02	.6540E+03	.4000E+01
.1350E+04	-.2796E+04	0.	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.1418E+04	-.1704E+04	.2000E+01	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.1173E+04	-.6309E+03	.5000E+01	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.8335E+03	-.4703E+02	.1000E+02	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.4949E+03	.2101E+03	.2000E+02	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.1910E+03	.1928E+03	.4000E+02	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.1070E+03	.1325E+03	.7000E+02	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.6949E+02	.8623E+02	.1100E+03	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.5114E+02	.6552E+02	.1500E+03	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.3771E+02	.5194E+02	.2000E+03	.1000E+02	-.2000E+01	.6540E+03	.4000E+01
.7745E+03	-.1679E+04	0.	.1000E+02	0.	.6540E+03	.4000E+01
.9021E+03	-.1049E+04	.2000E+01	.1000E+02	0.	.6540E+03	.4000E+01
.8535E+03	-.4313E+03	.5000E+01	.1000E+02	0.	.6540E+03	.4000E+01
.6818E+03	-.4055E+02	.1000E+02	.1000E+02	0.	.6540E+03	.4000E+01
.4430E+03	.1797E+03	.2000E+02	.1000E+02	0.	.6540E+03	.4000E+01
.1809E+03	.1648E+03	.4000E+02	.1000E+02	0.	.6540E+03	.4000E+01
.1035E+03	.1141E+03	.7000E+02	.1000E+02	0.	.6540E+03	.4000E+01
.5910E+02	.7494E+02	.1100E+03	.1000E+02	0.	.6540E+03	.4000E+01
.5041E+02	.5630E+02	.1500E+03	.1000E+02	0.	.6540E+03	.4000E+01
.3725E+02	.4492E+02	.2000E+03	.1000E+02	0.	.6540E+03	.4000E+01
.8709E+02	-.1294E+04	0.	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.4492E+03	-.5833E+03	.2000E+01	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.5149E+03	-.2344E+03	.5000E+01	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.4681E+03	-.3108E+02	.1000E+02	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.3491E+03	.1274E+03	.2000E+02	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.1587E+03	.9755E+02	.4000E+02	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.9558E+02	.6913E+02	.7000E+02	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.5470E+02	.4376E+02	.1100E+03	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.4866E+02	.3332E+02	.1500E+03	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.3615E+02	.2737E+02	.2000E+03	.1000E+02	.5000E+01	.6540E+03	.4000E+01
.3622E+03	-.1729E+03	.5000E+01	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.3557E+03	-.2636E+02	.1000E+02	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.2859E+03	.9527E+02	.2000E+02	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.1397E+03	.2800E+02	.4000E+02	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.8870E+02	.2406E+02	.7000E+02	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.6143E+02	.1338E+02	.1100E+03	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.4701E+02	.1030E+02	.1500E+03	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.3512E+02	.9751E+01	.2000E+03	.1000E+02	.1000E+02	.6540E+03	.4000E+01
.1074E+03	-.1644E+03	.4000E+02	.1000E+02	.2000E+02	.6540E+03	.4000E+01
.7655E+02	-.7378E+02	.7000E+02	.1000E+02	.2000E+02	.6540E+03	.4000E+01
.5546E+02	-.4941E+02	.1100E+03	.1000E+02	.2000E+02	.6540E+03	.4000E+01
.4392E+02	-.3657E+02	.1500E+03	.1000E+02	.2000E+02	.6540E+03	.4000E+01
.3332E+02	-.2583E+02	.2000E+03	.1000E+02	.2000E+02	.6540E+03	.4000E+01

.1933E+04	.4534E+04	0.	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.1169E+04	.5149E+04	.2000E+01	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.1866E+03	.3929E+04	.5000E+01	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
-.2984E+03	.2263E+04	.1000E+02	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
-.3784E+03	.1050E+04	.2000E+02	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
-.1986E+03	.4143E+03	.4000E+02	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
-.1231E+03	.2183E+03	.7000E+02	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
-.8548E+02	.1364E+03	.1100E+03	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
-.6374E+02	.9535E+02	.1500E+03	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
-.4624E+02	.7196E+02	.2000E+03	-.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.1012E+04	.2709E+04	0.	-.1000E+02	0.	.8713E+03	.5000E+01
.4918E+03	.3319E+04	.2000E+01	-.1000E+02	0.	.8713E+03	.5000E+01
-.1474E+03	.2931E+04	.5000E+01	-.1000E+02	0.	.8713E+03	.5000E+01
-.4530E+03	.1864E+04	.1000E+02	-.1000E+02	0.	.8713E+03	.5000E+01
-.4369E+03	.8921E+03	.2000E+02	-.1000E+02	0.	.8713E+03	.5000E+01
-.2111E+03	.3519E+03	.4000E+02	-.1000E+02	0.	.8713E+03	.5000E+01
-.1273E+03	.1860E+03	.7000E+02	-.1000E+02	0.	.8713E+03	.5000E+01
-.8831E+02	.1169E+03	.1100E+03	-.1000E+02	0.	.8713E+03	.5000E+01
-.6463E+02	.8144E+02	.1500E+03	-.1000E+02	0.	.8713E+03	.5000E+01
-.4683E+02	.6172E+02	.2000E+03	-.1000E+02	0.	.8713E+03	.5000E+01
-.2017E+04	.2912E+04	.5000E+01	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.1135E+04	.1335E+04	.1000E+02	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.6311E+03	.5499E+03	.2000E+02	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.2477E+03	.2013E+03	.4000E+02	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.1389E+03	.1062E+03	.7000E+02	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.9305E+02	.6834E+02	.1100E+03	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.6702E+02	.4676E+02	.1500E+03	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.4838E+02	.3614E+02	.2000E+03	-.1000E+02	.5000E+01	.8713E+03	.5000E+01
-.9515E+04	.1305E+04	.1000E+02	-.1000E+02	.1000E+02	.8713E+03	.5000E+01
-.9881E+03	.1695E+03	.2000E+02	-.1000E+02	.1000E+02	.8713E+03	.5000E+01
-.2966E+03	.4548E+02	.4000E+02	-.1000E+02	.1000E+02	.8713E+03	.5000E+01
-.1526E+03	.2539E+02	.7000E+02	-.1000E+02	.1000E+02	.8713E+03	.5000E+01
-.9811E+02	.1964E+02	.1100E+03	-.1000E+02	.1000E+02	.8713E+03	.5000E+01
-.6964E+02	.1203E+02	.1500E+03	-.1000E+02	.1000E+02	.8713E+03	.5000E+01
-.5002E+02	.1055E+02	.2000E+03	-.1000E+02	.1000E+02	.8713E+03	.5000E+01
-.4878E+03	-.3652E+03	.4000E+02	-.1000E+02	.2000E+02	.8713E+03	.5000E+01
-.1902E+03	-.1494E+03	.7000E+02	-.1000E+02	.2000E+02	.8713E+03	.5000E+01
-.1095E+03	-.8079E+02	.1100E+03	-.1000E+02	.2000E+02	.8713E+03	.5000E+01
-.7567E+02	-.5850E+02	.1500E+03	-.1000E+02	.2000E+02	.8713E+03	.5000E+01
-.5348E+02	-.4112E+02	.2000E+03	-.1000E+02	.2000E+02	.8713E+03	.5000E+01
-.1138E+04	.4626E+03	0.	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.1081E+04	.6539E+03	.2000E+01	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.9002E+03	.8755E+03	.5000E+01	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.5227E+03	.9849E+03	.1000E+02	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.6677E+02	.7441E+03	.2000E+02	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
-.2789E+02	.3503E+03	.4000E+02	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
-.3772E+02	.1993E+03	.7000E+02	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
-.3420E+02	.1305E+03	.1100E+03	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
-.2782E+02	.9241E+02	.1500E+03	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
-.1954E+02	.6975E+02	.2000E+03	-.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.9141E+03	.3512E+03	0.	-.5000E+01	0.	.8713E+03	.5000E+01
.8709E+03	.5026E+03	.2000E+01	-.5000E+01	0.	.8713E+03	.5000E+01
.7319E+03	.6982E+03	.5000E+01	-.5000E+01	0.	.8713E+03	.5000E+01
.4129E+03	.8295E+03	.1000E+02	-.5000E+01	0.	.8713E+03	.5000E+01
.1251E+02	.6383E+03	.2000E+02	-.5000E+01	0.	.8713E+03	.5000E+01
-.4068E+02	.2973E+03	.4000E+02	-.5000E+01	0.	.8713E+03	.5000E+01
-.4210E+02	.1697E+03	.7000E+02	-.5000E+01	0.	.8713E+03	.5000E+01
-.3501E+02	.1120E+03	.1100E+03	-.5000E+01	0.	.8713E+03	.5000E+01
-.2876E+02	.7901E+02	.1500E+03	-.5000E+01	0.	.8713E+03	.5000E+01
-.2013E+02	.5982E+02	.2000E+03	-.5000E+01	0.	.8713E+03	.5000E+01
.6133E+03	.2103E+03	0.	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
.5841E+03	.3089E+03	.2000E+01	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
.4745E+03	.4624E+03	.5000E+01	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
.1730E+03	.5832E+03	.1000E+02	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
-.1274E+03	.4033E+03	.2000E+02	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
-.7478E+02	.1695E+03	.4000E+02	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
-.5369E+02	.9659E+02	.7000E+02	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
-.4056E+02	.6611E+02	.1100E+03	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
-.3116E+02	.4561E+02	.1500E+03	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
-.2164E+02	.3508E+02	.2000E+03	-.5000E+01	.5000E+01	.8713E+03	.5000E+01
.4590E+03	.1478E+03	0.	-.5000E+01	.1000E+02	.8713E+03	.5000E+01
.4270E+03	.2247E+03	.2000E+01	-.5000E+01	.1000E+02	.8713E+03	.5000E+01
.2288E+03	.3672E+03	.5000E+01	-.5000E+01	.1000E+02	.8713E+03	.5000E+01

-.2632E+03	.3631E+03	.1000E+02	-.5000E+01	.1000E+07	.8713E+03	.5000E+01
-.3157E+03	.1441E+03	.7000E+02	-.5000E+01	.1000E+02	.8713E+03	.5000E+01
-.1158E+03	.3823E+02	.4000E+02	-.5000E+01	.1000E+07	.8713E+03	.5000E+01
-.6656E+02	.7778E+02	.7000E+02	-.5000E+01	.1000E+02	.8713E+03	.5000E+01
-.4527E+02	.7008E+02	.1100E+03	-.5000E+01	.1000E+02	.8713E+03	.5000E+01
-.3369E+02	.1221E+02	.1500E+03	-.5000E+01	.1000E+02	.8713E+03	.5000E+01
-.2320E+02	.1033E+02	.7000E+03	-.5000E+01	.1000E+07	.8713E+03	.5000E+01
-.3028E+04	-.2802E+04	.2000E+02	-.5000E+01	.7000E+02	.8713E+03	.5000E+01
-.2477E+03	-.3050E+03	.4000E+02	-.5000E+01	.7000E+02	.8713E+03	.5000E+01
-.9814E+02	-.1371E+03	.7000E+02	-.5000E+01	.2000E+02	.8713E+03	.5000E+01
-.5506E+02	-.7474E+02	.1100E+03	-.5000E+01	.2000E+02	.8713E+03	.5000E+01
-.3915E+02	-.5562E+02	.1500E+03	-.5000E+01	.2000E+02	.8713E+03	.5000E+01
-.2638E+02	-.3966E+02	.2000E+03	-.5000E+01	.2000E+02	.8713E+03	.5000E+01
.1059E+04	.2074E-06	0.	0.	-.7000E+01	.8713E+03	.5000E+01
.1044E+04	.1539E+03	.7000E+01	0.	-.2000E+01	.8713E+03	.5000E+01
.4691E+03	.3143E+03	.5000E+01	0.	-.2000E+01	.8713E+03	.5000E+01
.7553E+03	.5155E+03	.1000E+02	0.	-.2000E+01	.8713E+03	.5000E+01
.3755E+03	.5654E+03	.2000E+02	0.	-.2000E+01	.8713E+03	.5000E+01
.9603E+02	.3014E+03	.4000E+02	0.	-.2000E+01	.8713E+03	.5000E+01
.3349E+02	.1832E+03	.7000E+02	0.	-.2000E+01	.8713E+03	.5000E+01
.1315E+02	.1245E+03	.1100E+03	0.	-.2000E+01	.8713E+03	.5000E+01
.5521E+01	.8985E+02	.1500E+03	0.	-.2000E+01	.8713E+03	.5000E+01
.5517E+01	.6742E+02	.2000E+03	0.	-.2000E+01	.8713E+03	.5000E+01
.8704E+03	.1963E-06	0.	0.	0.	.8713E+03	.5000E+01
.8604E+03	.1033E+03	.2000E+01	0.	0.	.8713E+03	.5000E+01
.8097E+03	.2480E+03	.5000E+01	0.	0.	.8713E+03	.5000E+01
.6508E+03	.4297E+03	.1000E+02	0.	0.	.8713E+03	.5000E+01
.2720E+03	.4927E+03	.2000E+02	0.	0.	.8713E+03	.5000E+01
.8271E+02	.2556E+03	.4000E+02	0.	0.	.8713E+03	.5000E+01
.2897E+02	.1560E+03	.7000E+02	0.	0.	.8713E+03	.5000E+01
.1136E+02	.1070E+03	.1100E+03	0.	0.	.8713E+03	.5000E+01
.4542E+01	.7694E+02	.1500E+03	0.	0.	.8713E+03	.5000E+01
.4947E+01	.5779E+02	.2000E+03	0.	0.	.8713E+03	.5000E+01
.6018E+03	.1729E-06	0.	0.	.5000E+01	.8713E+03	.5000E+01
.5974E+03	.6227E+02	.2000E+01	0.	.5000E+01	.8713E+03	.5000E+01
.5736E+03	.1549E+03	.5000E+01	0.	.5000E+01	.8713E+03	.5000E+01
.4765E+03	.2966E+03	.1000E+02	0.	.5000E+01	.8713E+03	.5000E+01
.1505E+03	.3312E+03	.2000E+02	0.	.5000E+01	.8713E+03	.5000E+01
.4997E+02	.1452E+03	.4000E+02	0.	.5000E+01	.8713E+03	.5000E+01
.1752E+02	.8887E+02	.7000E+02	0.	.5000E+01	.8713E+03	.5000E+01
.7044E+01	.6344E+02	.1100E+03	0.	.5000E+01	.8713E+03	.5000E+01
.2123E+01	.4477E+02	.1500E+03	0.	.5000E+01	.8713E+03	.5000E+01
.3509E+01	.3380E+02	.2000E+03	0.	.5000E+01	.8713E+03	.5000E+01
.4594E+03	.1554E-06	0.	0.	.1000E+02	.8713E+03	.5000E+01
.4569E+03	.4279E+02	.2000E+01	0.	.1000E+02	.8713E+03	.5000E+01
.4423E+03	.1088E+03	.5000E+01	0.	.1000E+02	.8713E+03	.5000E+01
.3580E+03	.2229E+03	.1000E+02	0.	.1000E+02	.8713E+03	.5000E+01
.2783E+02	.1480E+03	.2000E+02	0.	.1000E+02	.8713E+03	.5000E+01
.1544E+02	.3223E+02	.4000E+02	0.	.1000E+02	.8713E+03	.5000E+01
.5600E+01	.2106E+02	.7000E+02	0.	.1000E+02	.8713E+03	.5000E+01
.2858E+01	.1984E+02	.1100E+03	0.	.1000E+02	.8713E+03	.5000E+01
-.3179E+00	.1261E+02	.1500E+03	0.	.1000E+02	.8713E+03	.5000E+01
.2066E+01	.9786E+01	.2000E+03	0.	.1000E+02	.8713E+03	.5000E+01
.3087E+03	.1343E-06	0.	0.	.2000E+02	.8713E+03	.5000E+01
.3065E+03	.2626E+02	.2000E+01	0.	.2000E+02	.8713E+03	.5000E+01
-.1021E+04	-.1586E+04	.2000E+02	0.	.2000E+02	.8713E+03	.5000E+01
-.7819E+02	-.2650E+03	.4000E+02	0.	.2000E+02	.8713E+03	.5000E+01
-.2069E+02	-.1262E+03	.7000E+02	0.	.2000E+02	.8713E+03	.5000E+01
-.5356E+01	-.7004E+02	.1100E+03	0.	.2000E+02	.8713E+03	.5000E+01
-.5279E+01	-.5265E+02	.1500E+03	0.	.2000E+02	.8713E+03	.5000E+01
-.7943E+00	-.3879E+02	.2000E+03	0.	.2000E+02	.8713E+03	.5000E+01
.1138E+04	.4626E+03	0.	.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.1141E+04	-.2698E+03	.2000E+01	.5000E+01	-.7000E+01	.8713E+03	.5000E+01
.1070E+04	-.2396E+02	.5000E+01	.5000E+01	-.7000E+01	.8713E+03	.5000E+01
.8765E+03	.2381E+03	.1000E+02	.5000E+01	-.7000E+01	.8713E+03	.5000E+01
.5015E+03	.4225E+03	.2000E+02	.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.1895E+03	.2644E+03	.4000E+02	.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.9364E+02	.1700E+03	.7000E+02	.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.5571E+02	.1183E+03	.1100E+03	.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.3677E+02	.8762E+02	.1500E+03	.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.2889E+02	.6507E+02	.2000E+03	.5000E+01	-.2000E+01	.8713E+03	.5000E+01
.9141E+03	-.3512E+03	0.	-.5000E+01	0.	.8713E+03	.5000E+01
.9193E+03	-.2056E+03	.2000E+01	.5000E+01	0.	.8713E+03	.5000E+01

.8779E+03	-.2085E+02	.5000E+01	.5000E+01	0.	.8713E+03	.5000E+01
.7495E+03	.1915E+03	.1000E+02	.5000E+01	0.	.8713E+03	.5000E+01
.4476E+03	.3721E+03	.2000E+02	.5000E+01	0.	.8713E+03	.5000E+01
.1757E+03	.2242E+03	.4000E+02	.5000E+01	0.	.8713E+03	.5000E+01
.8909E+02	.1449E+03	.7000E+02	.5000E+01	0.	.8713E+03	.5000E+01
.5391E+02	.1016E+03	.1100E+03	.5000E+01	0.	.8713E+03	.5000E+01
.3573E+02	.7520E+02	.1500E+03	.5000E+01	0.	.8713E+03	.5000E+01
.2833E+02	.5570E+02	.2000E+03	.5000E+01	0.	.8713E+03	.5000E+01
.6133E+03	-.2103E+03	0.	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.6199E+03	-.1240E+03	.2000E+01	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.6057E+03	-.1622E+02	.5000E+01	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.5482E+03	.1220E+03	.1000E+02	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.3381E+03	.2765E+03	.2000E+02	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.1440E+03	.1273E+03	.4000E+02	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.7801E+02	.8290E+02	.7000E+02	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.4967E+02	.6005E+02	.1100E+03	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.3325E+02	.4425E+02	.1500E+03	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.2694E+02	.3235E+02	.2000E+03	.5000E+01	.5000E+01	.8713E+03	.5000E+01
.4590E+03	-.1478E+03	0.	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.4670E+03	-.8724E+02	.2000E+01	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.4617E+03	-.1381E+02	.5000E+01	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.4302E+03	.8532E+02	.1000E+02	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.2370E+03	.1800E+03	.2000E+02	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.1142E+03	.2763E+02	.4000E+02	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.6770E+02	.2030E+02	.7000E+02	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.4575E+02	.1836E+02	.1100E+03	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.3089E+02	.1329E+02	.1500E+03	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.2556E+02	.8989E+01	.2000E+03	.5000E+01	.1000E+02	.8713E+03	.5000E+01
.3085E+03	-.1356E+02	.5000E+01	.5000E+01	.2000E+02	.8713E+03	.5000E+01
.2935E+03	.5024E+02	.1000E+02	.5000E+01	.2000E+02	.8713E+03	.5000E+01
-.4443E+03	-.1501E+04	.2000E+02	.5000E+01	.2000E+02	.8713E+03	.5000E+01
.4839E+02	-.2366E+03	.4000E+02	.5000E+01	.2000E+02	.8713E+03	.5000E+01
.4593E+02	-.1162E+03	.7000E+02	.5000E+01	.2000E+02	.8713E+03	.5000E+01
.3821E+02	-.6776E+02	.1100E+03	.5000E+01	.2000E+02	.8713E+03	.5000E+01
.2645E+02	-.4949E+02	.1500E+03	.5000E+01	.2000E+02	.8713E+03	.5000E+01
.2274E+02	-.3825E+02	.2000E+03	.5000E+01	.2000E+02	.8713E+03	.5000E+01
.1933E+04	-.4534E+04	0.	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.2054E+04	-.2717E+04	.2000E+01	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.1631E+04	-.9319E+03	.5000E+01	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.1106E+04	-.5157E+02	.1000E+02	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.6293E+03	.2890E+03	.2000E+02	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.2619E+03	.2371E+03	.4000E+02	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.1449E+03	.1596E+03	.7000E+02	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.9374E+02	.1122E+03	.1100E+03	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.6634E+02	.8532E+02	.1500E+03	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.5064E+02	.6294E+02	.2000E+03	.1000E+02	-.2000E+01	.8713E+03	.5000E+01
.1012E+04	-.2709E+04	0.	.1000E+02	0.	.8713E+03	.5000E+01
.1742E+04	-.1666E+04	.2000E+01	.1000E+02	0.	.8713E+03	.5000E+01
.1166E+04	-.6352E+03	.5000E+01	.1000E+02	0.	.8713E+03	.5000E+01
.9028E+03	-.4481E+02	.1000E+02	.1000E+02	0.	.8713E+03	.5000E+01
.5639E+03	.2492E+03	.2000E+02	.1000E+02	0.	.8713E+03	.5000E+01
.2478E+03	.2013E+03	.4000E+02	.1000E+02	0.	.8713E+03	.5000E+01
.1404E+03	.1363E+03	.7000E+02	.1000E+02	0.	.8713E+03	.5000E+01
.9185E+02	.9629E+02	.1100E+03	.1000E+02	0.	.8713E+03	.5000E+01
.6528E+02	.7345E+02	.1500E+03	.1000E+02	0.	.8713E+03	.5000E+01
.5008E+02	.5381E+02	.2000E+03	.1000E+02	0.	.8713E+03	.5000E+01
.5078E+03	-.1082E+04	.2000E+01	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.6866E+03	-.3474E+03	.5000E+01	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.6184E+03	-.3501E+02	.1000E+02	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.4451E+03	.1801E+03	.2000E+02	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.2171E+03	.1150E+03	.4000E+02	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.1298E+03	.7862E+02	.7000E+02	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.8744E+02	.5655E+02	.1100E+03	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.6275E+02	.4379E+02	.1500E+03	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.4969E+02	.3105E+02	.2000E+03	.1000E+02	.5000E+01	.8713E+03	.5000E+01
.4692E+03	-.3027E+02	.1000E+02	.1000E+02	.1000E+02	.8713E+03	.5000E+01
.3641E+03	.1369E+03	.2000E+02	.1000E+02	.1000E+02	.8713E+03	.5000E+01
.1913E+03	.2547E+02	.4000E+02	.1000E+02	.1000E+02	.8713E+03	.5000E+01
.1201E+03	.2041E+02	.7000E+02	.1000E+02	.1000E+02	.8713E+03	.5000E+01
.8346E+02	.1661E+02	.1100E+03	.1000E+02	.1000E+02	.8713E+03	.5000E+01
.6044E+02	.1405E+02	.1500E+03	.1000E+02	.1000E+02	.8713E+03	.5000E+01
.4735E+02	.8300E+01	.2000E+03	.1000E+02	.1000E+02	.8713E+03	.5000E+01
.1484E+03	-.2174E+03	.4000E+02	.1000E+02	.2000E+02	.8713E+03	.5000E+01

.1032E+03	-.1071E+03	.7000E+02	.1000E+02	.2000E+02	.8713E+03	.5000E+01
.7618E+02	-.6579E+02	.1100E+03	.1000E+02	.2000E+02	.8713E+03	.5000E+01
.5650E+02	-.4641E+02	.1500E+03	.1000E+02	.2000E+02	.8713E+03	.5000E+01
.4469E+02	-.3755E+02	.2000E+03	.1000E+02	.2000E+02	.8713E+03	.5000E+01
.2567E+04	.6526E+04	0.	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.1432E+04	.7140E+04	.2000E+01	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.1241E+03	.5113E+04	.5000E+01	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
-.4314E+03	.2806E+04	.1000E+02	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
-.4796E+03	.1263E+04	.2000E+02	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
-.2535E+03	.5168E+03	.4000E+02	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
-.1576E+03	.2732E+03	.7000E+02	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
-.1078E+03	.1602E+03	.1100E+03	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
-.7585E+02	.1159E+03	.1500E+03	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
-.5979E+02	.8463E+02	.2000E+03	-.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.1249E+04	.3895E+04	0.	-.1000E+02	0.	.1094E+04	.6000E+01
.4965E+03	.4616E+04	.2000E+01	-.1000E+02	0.	.1094E+04	.6000E+01
-.3173E+03	.3828E+04	.5000E+01	-.1000E+02	0.	.1094E+04	.6000E+01
-.6269E+03	.2310E+04	.1000E+02	-.1000E+02	0.	.1094E+04	.6000E+01
-.5498E+03	.1069E+04	.2000E+02	-.1000E+02	0.	.1094E+04	.6000E+01
-.2595E+03	.4401E+03	.4000E+02	-.1000E+02	0.	.1094E+04	.6000E+01
-.1630E+03	.2335E+03	.7000E+02	-.1000E+02	0.	.1094E+04	.6000E+01
-.1100E+03	.1363E+03	.1100E+03	-.1000E+02	0.	.1094E+04	.6000E+01
-.7698E+02	.9870E+02	.1500E+03	-.1000E+02	0.	.1094E+04	.6000E+01
-.6041E+02	.7201E+02	.2000E+03	-.1000E+02	0.	.1094E+04	.6000E+01
-.3108E+04	.4059E+04	.5000E+01	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.1501E+04	.1645E+04	.1000E+02	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.7834E+03	.6485E+03	.2000E+02	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.3161E+03	.2555E+03	.4000E+02	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.1777E+03	.1354E+03	.7000E+02	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.1156E+03	.7677E+02	.1100E+03	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.7998E+02	.5591E+02	.1500E+03	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.6203E+02	.4056E+02	.2000E+03	-.1000E+02	.5000E+01	.1094E+04	.6000E+01
-.1261E+05	.1571E+04	.1000E+02	-.1000E+02	.1000E+02	.1094E+04	.6000E+01
-.1215E+04	.1821E+03	.2000E+02	-.1000E+02	.1000E+02	.1094E+04	.6000E+01
-.3745E+03	.6620E+02	.4000E+02	-.1000E+02	.1000E+02	.1094E+04	.6000E+01
-.1942E+03	.3655E+02	.7000E+02	-.1000E+02	.1000E+02	.1094E+04	.6000E+01
-.1219E+03	.1714E+02	.1100E+03	-.1000E+02	.1000E+02	.1094E+04	.6000E+01
-.8324E+02	.1304E+02	.1500E+03	-.1000E+02	.1000E+02	.1094E+04	.6000E+01
-.6374E+02	.9107E+01	.2000E+03	-.1000E+02	.1000E+02	.1094E+04	.6000E+01
-.5784E+03	-.4394E+03	.4000E+02	-.1000E+02	.2000E+02	.1094E+04	.6000E+01
-.2340E+03	-.1772E+03	.7000E+02	-.1000E+02	.2000E+02	.1094E+04	.6000E+01
-.1363E+03	-.1059E+03	.1100E+03	-.1000E+02	.2000E+02	.1094E+04	.6000E+01
-.9088E+02	-.7406E+02	.1500E+03	-.1000E+02	.2000E+02	.1094E+04	.6000E+01
-.6745E+02	-.5431E+02	.2000E+03	-.1000E+02	.2000E+02	.1094E+04	.6000E+01
.1432E+04	.6090E+03	0.	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1347E+04	.8595E+03	.2000E+01	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1097E+04	.1134E+04	.5000E+01	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.6053E+03	.1237E+04	.1000E+02	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.5840E+02	.8958E+03	.2000E+02	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
-.3742E+02	.4391E+03	.4000E+02	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
-.4860E+02	.2509E+03	.7000E+02	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
-.4565E+02	.1539E+03	.1100E+03	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
-.3198E+02	.1113E+03	.1500E+03	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
-.2789E+02	.8308E+02	.2000E+03	-.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1146E+04	.4635E+03	0.	-.5000E+01	0.	.1094E+04	.6000E+01
.1081E+04	.6640E+03	.2000E+01	-.5000E+01	0.	.1094E+04	.6000E+01
.8841E+03	.9103E+03	.5000E+01	-.5000E+01	0.	.1094E+04	.6000E+01
.4661E+03	.1043E+04	.1000E+02	-.5000E+01	0.	.1094E+04	.6000E+01
-.6645E+01	.7637E+03	.2000E+02	-.5000E+01	0.	.1094E+04	.6000E+01
-.5308E+02	.3741E+03	.4000E+02	-.5000E+01	0.	.1094E+04	.6000E+01
-.5394E+02	.2145E+03	.7000E+02	-.5000E+01	0.	.1094E+04	.6000E+01
-.4780E+02	.1311E+03	.1100E+03	-.5000E+01	0.	.1094E+04	.6000E+01
-.3319E+02	.9475E+02	.1500E+03	-.5000E+01	0.	.1094E+04	.6000E+01
-.2852E+02	.7081E+02	.2000E+03	-.5000E+01	0.	.1094E+04	.6000E+01
.7644E+02	.2792E+03	0.	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
.7173E+03	.4143E+03	.2000E+01	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
.5480E+03	.6145E+03	.5000E+01	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
.1497E+03	.7270E+03	.1000E+02	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
-.1730E+03	.4701E+03	.2000E+02	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
-.9378E+02	.2176E+03	.4000E+02	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
-.6759E+02	.1747E+03	.7000E+02	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
-.5328E+02	.7456E+02	.1100E+03	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
-.3628E+02	.5360E+02	.1500E+03	-.5000E+01	.5000E+01	.1094E+04	.6000E+01

-.3010E+02	.4020E+02	.2000E+03	-.5000E+01	.5000E+01	.1094E+04	.6000E+01
.5689E+03	.1979E+03	0.	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
.5065E+03	.3106E+03	.2000E+01	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
.1077E+03	.5018E+03	.5000E+01	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.4561E+03	.4125E+03	.1000E+02	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.3985E+03	.1481E+03	.2000E+02	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.1396E+03	.5645E+02	.4000E+02	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.8190E+02	.3412E+02	.7000E+02	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.5897E+02	.1785E+02	.1100E+03	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.3953E+02	.1244E+02	.1500E+03	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.3170E+02	.9588E+01	.2000E+03	-.5000E+01	.1000E+02	.1094E+04	.6000E+01
-.3642E+04	-.3428E+04	.2000E+02	-.5000E+01	.2000E+02	.1094E+04	.6000E+01
-.2904E+03	-.3686E+03	.4000E+02	-.5000E+01	.2000E+02	.1094E+04	.6000E+01
-.1151E+03	-.1630E+03	.7000E+02	-.5000E+01	.2000E+02	.1094E+04	.6000E+01
-.7149E+02	-.9894E+02	.1100E+03	-.5000E+01	.2000E+02	.1094E+04	.6000E+01
-.4659E+02	-.7101E+02	.1500E+03	-.5000E+01	.2000E+02	.1094E+04	.6000E+01
-.3501E+02	-.5214E+02	.2000E+03	-.5000E+01	.2000E+02	.1094E+04	.6000E+01
.1332E+04	.2349E-06	0.	0.	-.2000E+01	.1094E+04	.6000E+01
.1310E+04	.1766E+03	.2000E+01	0.	-.2000E+01	.1094E+04	.6000E+01
.1205E+04	.4115E+03	.5000E+01	0.	-.2000E+01	.1094E+04	.6000E+01
.9176E+03	.6609E+03	.1000E+02	0.	-.2000E+01	.1094E+04	.6000E+01
.3718E+03	.6877E+03	.2000E+02	0.	-.2000E+01	.1094E+04	.6000E+01
.1212E+03	.3769E+03	.4000E+02	0.	-.2000E+01	.1094E+04	.6000E+01
.4304E+02	.2302E+03	.7000E+02	0.	-.2000E+01	.1094E+04	.6000E+01
.1107E+02	.1486E+03	.1100E+03	0.	-.2000E+01	.1094E+04	.6000E+01
.8461E+01	.1074E+03	.1500E+03	0.	-.2000E+01	.1094E+04	.6000E+01
.2546E+01	.8181E+02	.2000E+03	0.	-.2000E+01	.1094E+04	.6000E+01
.1092E+04	.2731E-06	0.	0.	0.	.1094E+04	.6000E+01
.1078E+04	.1365E+03	.2000E+01	0.	0.	.1094E+04	.6000E+01
.1007E+04	.3259E+03	.5000E+01	0.	0.	.1094E+04	.6000E+01
.7885E+03	.5538E+03	.1000E+02	0.	0.	.1094E+04	.6000E+01
.5061E+03	.5943E+03	.2000E+02	0.	0.	.1094E+04	.6000E+01
.1052E+03	.3204E+03	.4000E+02	0.	0.	.1094E+04	.6000E+01
.3762E+02	.1966E+03	.7000E+02	0.	0.	.1094E+04	.6000E+01
.8857E+01	.1269E+03	.1100E+03	0.	0.	.1094E+04	.6000E+01
.7220E+01	.9149E+02	.1500E+03	0.	0.	.1094E+04	.6000E+01
.1915E+01	.6986E+02	.2000E+03	0.	0.	.1094E+04	.6000E+01
.7526E+03	.1976E-06	0.	0.	.5000E+01	.1094E+04	.6000E+01
.7464E+03	.8250E+02	.2000E+01	0.	.5000E+01	.1094E+04	.6000E+01
.7122E+03	.2052E+03	.5000E+01	0.	.5000E+01	.1094E+04	.6000E+01
.5700E+03	.3872E+03	.1000E+02	0.	.5000E+01	.1094E+04	.6000E+01
.1605E+03	.3827E+03	.2000E+02	0.	.5000E+01	.1094E+04	.6000E+01
.6636E+02	.1842E+03	.4000E+02	0.	.5000E+01	.1094E+04	.6000E+01
.2432E+02	.1135E+03	.7000E+02	0.	.5000E+01	.1094E+04	.6000E+01
.3462E+01	.7306E+02	.1100E+03	0.	.5000E+01	.1094E+04	.6000E+01
.4130E+01	.5194E+02	.1500E+03	0.	.5000E+01	.1094E+04	.6000E+01
.3723E+00	.4002E+02	.2000E+03	0.	.5000E+01	.1094E+04	.6000E+01
.5735E+03	.1781E-06	0.	0.	.1000E+02	.1094E+04	.6000E+01
.5699E+03	.5671E+02	.2000E+01	0.	.1000E+02	.1094E+04	.6000E+01
.5485E+03	.1449E+03	.5000E+01	0.	.1000E+02	.1094E+04	.6000E+01
.4057E+03	.2897E+03	.1000E+02	0.	.1000E+02	.1094E+04	.6000E+01
.9659E+01	.1463E+03	.2000E+02	0.	.1000E+02	.1094E+04	.6000E+01
.2582E+02	.4449E+02	.4000E+02	0.	.1000E+02	.1094E+04	.6000E+01
.1099E+02	.2953E+02	.7000E+02	0.	.1000E+02	.1094E+04	.6000E+01
-.1850E+01	.1907E+02	.1100E+03	0.	.1000E+02	.1094E+04	.6000E+01
-.1050E+01	.1239E+02	.1500E+03	0.	.1000E+02	.1094E+04	.6000E+01
-.1122E+01	.1017E+02	.2000E+03	0.	.1000E+02	.1094E+04	.6000E+01
.3445E+03	.1548E-06	0.	0.	.2000E+02	.1094E+04	.6000E+01
.3806E+03	.3517E+02	.2000E+01	0.	.2000E+02	.1094E+04	.6000E+01
-.1252E+04	-.1996E+04	.2000E+02	0.	.2000E+02	.1094E+04	.6000E+01
-.8563E+02	-.3208E+03	.4000E+02	0.	.2000E+02	.1094E+04	.6000E+01
-.1886E+02	-.1524E+03	.7000E+02	0.	.2000E+02	.1094E+04	.6000E+01
-.1250E+02	-.9211E+02	.1100E+03	0.	.2000E+02	.1094E+04	.6000E+01
-.5096E+01	-.6793E+02	.1500E+03	0.	.2000E+02	.1094E+04	.6000E+01
-.4081E+01	-.5008E+02	.2000E+03	0.	.2000E+02	.1094E+04	.6000E+01
.1432E+04	-.6090E+03	0.	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1439E+04	-.3520E+03	.2000E+01	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1344E+04	-.2559E+02	.5000E+01	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1083E+04	.3121E+03	.1000E+02	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.5941E+03	.5779E+03	.2000E+02	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.2400E+03	.3274E+03	.4000E+02	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1200E+03	.2116E+03	.7000E+02	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.6338E+02	.1438E+03	.1100E+03	.5000E+01	-.2000E+01	.1094E+04	.6000E+01

.4612E+07	.1040E+03	.1500E+03	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.3168E+07	.8069E+02	.2000E+03	.5000E+01	-.2000E+01	.1094E+04	.6000E+01
.1146E+04	-.4635E+03	0.	.5000E+01	0.	.1094E+04	.6000E+01
.1156E+04	-.2684E+03	.2000E+01	.5000E+01	0.	.1094E+04	.6000E+01
.1100E+04	-.2239E+02	.5000E+01	.5000E+01	0.	.1094E+04	.6000E+01
.9266E+03	.2524E+03	.1000E+02	.5000E+01	0.	.1094E+04	.6000E+01
.5257E+03	.4647E+03	.2000E+02	.5000E+01	0.	.1094E+04	.6000E+01
.2230E+03	.2777E+03	.4000E+02	.5000E+01	0.	.1094E+04	.6000E+01
.1143E+03	.1805E+03	.7000E+02	.5000E+01	0.	.1094E+04	.6000E+01
.6110E+02	.1232E+03	.1100E+03	.5000E+01	0.	.1094E+04	.6000E+01
.4489E+02	.8872E+02	.1500E+03	.5000E+01	0.	.1094E+04	.6000E+01
.3103E+02	.6904E+02	.2000E+03	.5000E+01	0.	.1094E+04	.6000E+01
.7644E+03	-.2792E+03	0.	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.7757E+03	-.1616E+03	.2000E+01	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.7569E+03	-.1768E+02	.5000E+01	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.6782E+03	.1627E+03	.1000E+02	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.3860E+03	.3349E+03	.2000E+02	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.1844E+03	.1578E+03	.4000E+02	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.1007E+03	.1034E+03	.7000E+02	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.5568E+02	.7210E+02	.1100E+03	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.4190E+02	.5063E+02	.1500E+03	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.2948E+02	.3993E+02	.2000E+03	.5000E+01	.5000E+01	.1094E+04	.6000E+01
.5689E+03	-.1979E+03	0.	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.5829E+03	-.1136E+03	.2000E+01	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.5760E+03	-.1524E+02	.5000E+01	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.5324E+03	.1148E+03	.1000E+02	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.2598E+03	.1811E+03	.2000E+02	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.1483E+03	.3516E+02	.4000E+02	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.8778E+02	.2545E+02	.7000E+02	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.5061E+02	.2071E+02	.1100E+03	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.3904E+02	.1748E+02	.1500E+03	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.2802E+02	.1077E+02	.2000E+03	.5000E+01	.1000E+02	.1094E+04	.6000E+01
.3828E+03	-.1649E+02	.5000E+01	.5000E+01	.2000E+02	.1094E+04	.6000E+01
-.5512E+03	-.1956E+04	.2000E+02	.5000E+01	.2000E+02	.1094E+04	.6000E+01
.6782E+02	-.2891E+03	.4000E+02	.5000E+01	.2000E+02	.1094E+04	.6000E+01
.6213E+02	-.1434E+03	.7000E+02	.5000E+01	.2000E+02	.1094E+04	.6000E+01
.4131E+02	-.8528E+02	.1100E+03	.5000E+01	.2000E+02	.1094E+04	.6000E+01
.3351E+02	-.6518E+02	.1500E+03	.5000E+01	.2000E+02	.1094E+04	.6000E+01
.2520E+02	-.4805E+02	.2000E+03	.5000E+01	.2000E+02	.1094E+04	.6000E+01
.2567E+04	-.6526E+04	0.	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.2750E+04	-.3873E+04	.2000E+01	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.2114E+04	-.1260E+04	.5000E+01	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.1382E+04	-.5479E+02	.1000E+02	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.7624E+03	.3694E+03	.2000E+02	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.3324E+03	.2893E+03	.4000E+02	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.1851E+03	.1959E+03	.7000E+02	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.1118E+03	.1385E+03	.1100E+03	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.8126E+02	.1010E+03	.1500E+03	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.5963E+02	.7960E+02	.2000E+03	.1000E+02	-.2000E+01	.1094E+04	.6000E+01
.1249E+04	-.3895E+04	0.	.1000E+02	0.	.1094E+04	.6000E+01
.1602E+04	-.2380E+04	.2000E+01	.1000E+02	0.	.1094E+04	.6000E+01
.1492E+04	-.8604E+03	.5000E+01	.1000E+02	0.	.1094E+04	.6000E+01
.1127E+04	-.4787E+02	.1000E+02	.1000E+02	0.	.1094E+04	.6000E+01
.6832E+03	.3202E+03	.2000E+02	.1000E+02	0.	.1094E+04	.6000E+01
.3145E+03	.2450E+03	.4000E+02	.1000E+02	0.	.1094E+04	.6000E+01
.1792E+03	.1669E+03	.7000E+02	.1000E+02	0.	.1094E+04	.6000E+01
.1095E+03	.1191E+03	.1100E+03	.1000E+02	0.	.1094E+04	.6000E+01
.8004E+02	.8624E+02	.1500E+03	.1000E+02	0.	.1094E+04	.6000E+01
.5894E+02	.6825E+02	.2000E+03	.1000E+02	0.	.1094E+04	.6000E+01
.4555E+03	-.1949E+04	.2000E+01	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.8615E+03	-.4787E+03	.5000E+01	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.7710E+03	-.3799E+02	.1000E+02	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.5389E+03	.2345E+03	.2000E+02	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.2755E+03	.1384E+03	.4000E+02	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.1656E+03	.9533E+02	.7000E+02	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.1043E+03	.7075E+02	.1100E+03	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.7714E+02	.4947E+02	.1500E+03	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.5731E+02	.3986E+02	.2000E+03	.1000E+02	.5000E+01	.1094E+04	.6000E+01
.5845E+03	-.3338E+02	.1000E+02	.1000E+02	.1000E+02	.1094E+04	.6000E+01
.4386E+03	-.1801E+03	.2000E+02	.1000E+02	.1000E+02	.1094E+04	.6000E+01
.2433E+03	.2845E+02	.4000E+02	.1000E+02	.1000E+02	.1094E+04	.6000E+01
.1532E+03	.2293E+02	.7000E+02	.1000E+02	.1000E+02	.1094E+04	.6000E+01

.9946E+02	.2715E+02	.1100E+03	.1000E+02	.1000E+02	.1094E+04	.6000E+01
.7441E+02	.1259E+02	.1500E+03	.1000E+02	.1000E+02	.1094E+04	.6000E+01
.5583E+02	.1140E+02	.2000E+03	.1000E+02	.1000E+02	.1094E+04	.6000E+01
.1896E+03	-.2668E+03	.4000E+02	.1000E+02	.2000E+02	.1094E+04	.6000E+01
.1318E+03	-.1347E+03	.7000E+02	.1000E+02	.2000E+02	.1094E+04	.6000E+01
.9118E+02	-.7836E+02	.1100E+03	.1000E+02	.2000E+02	.1094E+04	.6000E+01
.6935E+02	-.6243E+02	.1500E+03	.1000E+02	.2000E+02	.1094E+04	.6000E+01
.5318E+02	-.4595E+02	.2000E+03	.1000E+02	.2000E+02	.1094E+04	.6000E+01