

APPENDIX D

SOIL LEACHING TO GROUNDWATER MODELING

This appendix describes the methods the Montana Department of Environmental Quality (DEQ) used to develop Tier 1 soil leaching to groundwater risk-based screening levels (RBSLs). The soil leaching to groundwater RBSLs were calculated using two computer codes and the EPA soil-water partition equation for organic contaminants (*Soil Screening Guidance Technical Support Document*, EPA, 1996). The EPA partitioning equation was used to relate chemical of concern (COC) concentrations in soil moisture to the total concentration detected in a soil sample, assuming linear partitioning and equilibrium conditions. Dilution/Attenuation Factors (DAFs), representing the ratio of COC concentration in soil leachate at the source area to the COC concentration at the point of compliance (POC), were calculated using the VS2DT Solute Transport in Variably Saturated Porous Media code developed by the USGS. The POC was established as a monitoring well constructed at the downgradient edge of the contaminated source zone, with a well screen extending 1 meter into the water table. The Hydrologic Evaluation of Landfill Performance (HELP) code (U.S. Army Engineer Waterways Experiment Station) was used to generate a generic water budget, including estimates of water infiltration, runoff, evapotranspiration, and soil moisture percolation rates into the contaminated source area. The percolation rates generated by the HELP code were incorporated into the VS2DT modeling.

Physical processes simulated by the DEQ Tier 1 soil leaching to groundwater model include COC adsorption and desorption onto vadose zone soils and the aquifer matrix, advection and hydrodynamic dispersion of COCs in the vadose and saturated zones, and dilution due to mixing of soil leachate and groundwater. The model setup includes a finite contaminant source zone. Biological degradation of the COCs is not considered in the model.

Three scenarios were simulated. In the most conservative scenario, the contaminated source was assumed to be located 0.1 meter above the water table. In the second scenario, the distance between the source and the water table was 3.1 meters. The final scenario incorporated a 6.1-meter layer of unimpacted soil between the source and the water table. DEQ-7 human health standards were used as the groundwater target for individual COCs. Groundwater targets for petroleum fractions were developed based on the toxicity and aesthetics of surrogate chemicals representative of each fraction. In all cases, the soil RBSL represents a COC concentration that, based on the results of the modeling effort, would produce a maximum groundwater concentration equal to the groundwater target at the POC.

Generic application of the RBSLs to petroleum release sites throughout Montana dictated the use of several conservative assumptions in the soil leaching to groundwater model. Conservative elements included the use of sandy soil as the default soil type, incorporation of an upper end estimate of the water percolation rate, and the assumption that no biodegradation of COCs in the vadose or saturated zones occurs. A description the VS2DT and HELP codes, model input parameters, and results of the modeling efforts is presented below.

Model Description : VS2DT

VS2DT simulates the movement of water in variably saturated porous media under isothermal and isohaline conditions. The governing equation describing the movement and occurrence of water combines the principle of conservation of mass with equations for fluid flux and storage. A thorough discussion of the derivation of VS2D, the USGS code prior to the addition of a solute transport module, is presented in *Documentation of Computer Program VS2D to Solve the Equations of Fluid Flow in Variably Saturated Porous Media*, USGS, 1987. The code uses finite differences to discretize spatial and temporal domains. Non-linear conductance and storage terms and unsaturated hydraulic conductivities are calculated using equations developed by Brooks and Corey, van Genuchten, or Haverkamp.

The code was modified in 1990 to simulate solute transport, using a governing equation accounting for advective transport, hydrodynamic dispersion, and solute sources and sinks. The hydrodynamic dispersion term includes mechanical dispersion and molecular diffusion in water. The code does not simulate volatilization or COC

movement in soil vapor. A discussion regarding the addition of the solute transport module is presented in *Simulation of Solute Transport in Variably Saturated Porous Media With Supplemental Information on Modifications to the U.S. Geological Survey's Computer Program VS2D*, USGS, 1990.

Model Description : HELP

The HELP code was written to simulate water movement through landfills. The model accepts weather, soil, and design data and accounts for surface water and snow storage, snowmelt, runoff, infiltration, evapotranspiration, vegetative growth, soil moisture storage, and unsaturated vertical drainage. The HELP code uses many routines previously developed and used in other hydrologic models, including the WGEN synthetic weather generator (U.S. Department of Agriculture) and Soil Conservation Service (SCS) runoff curves. Snowmelt modeling is based on the National Weather Service River Forecast System Snow Accumulation and Ablation Model, and frozen soils are simulated using a subroutine from the Chemicals, Runoff, and Erosion from Agricultural Management System (CREAMS) code. Vertical drainage is simulated using Darcy's law using unsaturated hydraulic conductivity based on the Brooks and Corey relationship. Results are expressed as daily, monthly, and annual water budgets. Documentations of the HELP Model include the *HELP Model User's Guide for Version 3*, EPA, 1994 and the *HELP Model Engineering Documentation for Version 3*, EPA, 1994.

DEQ Soil Leaching Model Setup

The conceptual model for the soil leaching to groundwater pathway was developed as a two dimensional cross-section consisting of a vadose zone of varying thickness overlying a water table aquifer two meters in thickness. Soil properties were homogeneous and isotropic throughout the model domain. The vertical profile consisted of 1.4 meters of unimpacted soil, overlying 1.5 meters of contaminated soils, overlying a 2 meter saturated zone located 0.1 meter, 3.1 meters, and 6.1 meters below the bottom of the contaminated soils.

The HELP modeling was performed to simulate water movement through the top 1.5-meter layer of soil and generate a soil moisture flux rate for the top boundary of the VS2DT model domain. The HELP code was selected based on its widespread use, flexibility, and thorough documentation. Necessary soil data included porosity, field capacity, wilting point, saturated hydraulic conductivity, initial moisture storage, and SCS runoff curve number. Design specifications included vegetative cover, soil layer thickness and areal dimensions, surface slope and slope length, and evaporative zone depth. Daily precipitation for six Montana cities (Billings, Great Falls, Havre, Helena, Kalispell, and Miles City) was simulated by the HELP code for a 30-year period based on statistical qualities of 5 years of daily field data recorded in these cities. In the same manner, 30 years of synthetic daily temperature and solar radiation data were generated by the code.

The top of the soil column was modeled as bare ground with a surface slope of 1 percent, with 95 percent of the surface area available for runoff. Default soil properties for a well graded sand (soil texture #3) were used in the HELP model. This soil series was selected primarily due to its saturated hydraulic conductivity value, which was approximately one-half the value used in the VS2DT simulation. This reduction in conductivity was included to reflect a moderate degree of compaction expected in surface soils and/or the presence of a semi-permeable cover at many sites. HELP model results indicated that percolation through the bottom of the 1.5-meter layer ranged from 8.3 cm/yr (Kalispell) to 3.8 cm/yr (Helena). HELP model output for Kalispell are presented in Attachment A.

VS2DT Boundary Conditions

The VS2DT model domain was 13 meters in the horizontal direction and 5, 8, and 11 meters in the vertical direction, depending on the depth to groundwater. The top horizontal boundary of the VS2DT model domain was set as a constant flux boundary, and a percolation rate of 2.5×10^{-4} meters per day, corresponding to the Kalispell percolation rate, was used. A water saturated zone was established using constant head boundaries extending 2 meters up from the bottom of the model domain, and were set with a total head difference of 0.06 meters from the left side to the right side of the model domain, resulting in a groundwater gradient of 0.005 m/m. The bottom of the model domain was set 2 meters below and parallel to the water table, and the bottom boundary of the domain and side boundaries of the vadose zone were set as no flow boundaries. The source zone dimensions were set to 9

meters wide (parallel to the groundwater flow direction) and 1.5 meters in thickness. The contaminated source was bordered by two meters of unimpacted soils on each side.

VS2DT Initial Conditions

The VS2DT code requires that initial values of total head, moisture content, or pressure heads be specified everywhere in the model domain. For each distance to groundwater scenario, a preliminary model run was performed to compute an equilibrium pressure head profile for all nodes in the domain based on the boundary conditions and soil textural parameters. The equilibrium pressure head matrices generated by the preliminary runs were subsequently used in the VS2DT simulations for each distance to groundwater scenario. Figure 1 presents the steady-state moisture content profile for the 0.1-meter (most conservative) distance to groundwater scenario.

Unfortunately, the VS2DT code will not accept total COC concentrations in soils as an initial condition. Instead, COC concentrations in soil moisture were set to a constant value (typically 10 g/m^3). An average soil moisture content was calculated for the source zone using the soil moisture profile generated by VS2DT. The total soil concentration in equilibrium with the target soil moisture concentration (back calculated for each COC using the groundwater target multiplied by the DAF) was estimated using the EPA soil-water partitioning equation.

VS2DT Finite Difference Parameters

Rapid changes in pressure heads and moisture content near the capillary fringe dictated relatively fine vertical discretization. Maximum grid spacing in the vertical direction was 0.1 meters in the vadose zone and 0.25 meters in the saturated zone. Minimum grid spacing was 0.01 meters in the vicinity of the water table. Maximum changes in grid spacing ranged from a factor of 1.5 to 2.0. Grid spacing in the horizontal direction was 0.5 meters, and was reduced to 0.25 meters in the vicinity of the compliance monitoring well. Time discretization was set using a maximum time step of 1 day. At the beginning of the simulation, the time step was set to 0.01 day and was subsequently increased by a factor of 1.5 until the 1 day time step was achieved.

Closure criteria for total heads was set to 1.0×10^{-4} meters, and closure criteria for the solute transport equation was set to $1.0 \times 10^{-5} \text{ g/m}^3$ (g/m^3 units convert to mg/L). The strongly implicit procedure (SIP) was used in calculating total head values, and central differencing in space and time was used for the solute transport equation. The arithmetic mean of adjacent cells was used to calculate intercell conductivities.

Physical and Chemical Parameters

Physical parameters for vadose and saturated zone soils, including hydraulic conductivity, specific storage, porosity, residual moisture content, and van Genuchten non-linear parameters were estimated using the *Subtitle D Landfill Application Manual for the Multimedia Exposure Assessment Model Final Report*, US EPA, 1995. The values selected for these parameters were consistent with a well-sorted sand. Chemical-specific parameters, including the molecular diffusion coefficient in water and the organic carbon-water partitioning coefficient were estimated using the EPA Soil Screening Guidance Technical Support Document. Organic carbon content of vadose and saturated zone soils was estimated as 0.006 g/g and 0.001 g/g, respectively. Longitudinal dispersivity for COCs in the vadose zone was estimated using the equation $D_l = 0.02 + 0.022 * L$ where D_l is the longitudinal dispersivity, and L is the vertical distance between the center of the contaminated source area and the top of the water table. For the saturated zone dispersivities, the longitudinal dispersivity was estimated as one tenth the horizontal distance between the center of the contaminated source and the point of compliance monitoring well, and the transverse dispersivity (in the vertical direction) was estimated as one tenth of the value of the longitudinal dispersivity. For the vadose zone, the transverse dispersivity was set equal to the longitudinal dispersivity as the flow of soil moisture perpendicular to bedding planes is expected to result in greater transverse spreading of COCs compared to saturated zone flow parallel to bedding planes. Physical and chemical input parameters incorporated in the leaching to groundwater model are presented in Tables 1 and 2.

Point of Compliance

Conceptually, the point of compliance (POC) was set as a monitoring well constructed at the downgradient edge of the contaminated source with a screened interval extending one meter from the top of the water table. As implemented in the VS2DT code, COC concentrations at five adjacent cell nodes in a vertical line, corresponding to the POC location, were reported for each time step. The uppermost cell was located 10 centimeters below the top of the water table, under the downgradient edge of the vadose zone source. The vertical dimensions of the cells were 0.1, 0.15, 0.25, and 0.25 meters, respectively. In order to generate an average POC well concentration accounting for the differences in cell dimensions, the concentration in each cell was multiplied the cell vertical dimension, the values for all five cells were totalled, and divided by the total vertical length of the five cells (1 meter). This calculation was performed on the output from each time step, and the highest average of the five nodes was recorded. Figures 2 and 3 illustrate the benzene and naphthalene concentrations versus time at the POC well for the 0.1-meter scenario. Figures 4 through 6 present the distribution of benzene at 50 days, 162 days (corresponding to the peak POC concentration), and 500 days for the 0.1-meter distance to groundwater scenario.

The VS2DT input file for the benzene/0.1-meter simulation and schematics illustrating the three scenarios are presented in Attachment B. Model output for this simulation, and the concentration output file for the POC nodes are presented in Attachments C and D.

RBSL Calculation

Back-calculation of RBSLs incorporated the COC-specific DAF generated by the VS2DT modeling and the EPA soil-water partitioning equation. Table 3 presents the EPA partitioning equation and the parameters required for the calculation of the Tier 1 soil targets. DAFs for the most conservative scenario, with the contaminated source located immediately above the water table (0.1-meter scenario), ranged from 20.9 (MTBE) to 12.6 (Fluorene). DAFs for all three scenarios are presented in Table 4 and plotted in Figure 7. Of the PAH compounds, only naphthalene, fluorene, and pyrene were modeled. The majority of the PAHs have very high soil-water partitioning coefficients and correspondingly high retardation factors, resulting in exceedingly long travel times between the source and the POC well. As a result, the DAFs for the PAH COCs were estimated using for DAFs computed for naphthalene and fluorene.

Mass Balance Results

Use of fine spatial and temporal discretization combined with the steady-state flow of soil moisture and groundwater incorporated in the simulations resulted in low water and COC mass balance errors. Table 5 presents mass balance results for MTBE and naphthalene for 0.1-meter and 6.1-meter distance to groundwater scenarios. Percent mass balance for water was calculated as the ratio between the reported fluid volume balance and the total fluid flux. Similarly, the percent mass balance error for the COCs was the ratio between the reported solute mass balance and the initial starting mass. Water and solute mass balances for the shortest simulation (MTBE/ 0.1-meter scenario) were -2.05×10^{-3} cubic meters (0.0098 percent of the total flux) and -0.0126 grams (0.018 percent of the initial mass), respectively. Water and solute mass balances for the longest simulation (naphthalene/6.1-meter distance to groundwater) were -7.55×10^{-3} cubic meters (0.00036 percent of the total flux) and -10.4 grams (0.69 percent of the initial mass), respectively. Figures 8 and 9 present water balance and percent mass balance error results.

All simulations assumed linear COC partitioning between soil and water. The VS2DT code calculates an initial mass of COC sorbed to soil as the initial water concentration multiplied by the partitioning coefficient, soil bulk density, and dimensions of the source area. As Table 5 illustrates, the initial benzene mass in soil moisture was 54 grams, 75 grams were sorbed to the soil, resulting in a total initial mass of 129 grams. Figures 10 and 11 present the total sorbed benzene mass versus time and the rate of benzene desorption versus time for the 0.1-meter simulation.

Sensitivity Analysis Results

Analysis of sensitivity of model output to selected input parameters was performed for the VS2DT and HELP codes. Sensitivity of VS2DT was measured using the benzene/0.1-meter scenario. Sensitivity analysis model runs were

performed using expected minimum and maximum values of selected input parameters. Parameter sensitivity was reported as the ratio of predicted POC concentrations for the minimum and maximum case for each input parameter.

Sensitivity results for VS2DT indicated that the benzene/0.1-meter distance to groundwater scenario was most sensitive to the saturated hydraulic conductivity, source width, groundwater gradient, and soil moisture percolation rate. With the exception of the source width, these parameters affect the water balance between percolating soil moisture and the underlying saturated zone. Increasing the saturated zone hydraulic conductivity from 1 meter per day to 15 meters per day resulted in a reduction in the maximum POC concentration by a factor of 5.3. Sensitivity results for the HELP code indicated that simulation was most sensitive to the soil type, site location, and maximum depth of evapotranspiration. Sensitivity analysis results are presented in Table 6 and Figures 12 and 13.

Table 1
Leaching Model Physical Parameters

	0.1m simulations	3.1m simulations	6.1m simulations
Model Setup Parameters	Sand	Sand	Sand
Maximum no. of Time Steps	1,000,000	1,000,000	1,000,000
units	meter day gram	meter day gram	meter day gram
Initial Hydraulic Condition	Steady state	Steady state	Steady state
Intercell Relative Hydraulic Conductivity	Arithmetic mean	Arithmetic mean	Arithmetic mean
Hydraulic Characteristic Function	Van Genuchten	Van Genuchten	Van Genuchten
Differencing Scheme for Transport Equation	Centered	Centered	Centered
Adsorption	Linear Isotherm	Linear Isotherm	Linear Isotherm
Relaxation Parameter	0.7	0.7	0.7
Minimum Iterations per Time Step	2	2	2
Maximum Iterations per Time Step	80	80	80
Closure criteria for head [m]	1.00E-04	1.00E-04	1.00E-04
Closure criteria for concentration [g/m ³]	1.00E-05	1.00E-05	1.00E-05
Grid spacing - rows (m)	0.01-0.1	0.01-0.1	0.01-0.1
Grid spacing - columns (m)	0.25-0.5	0.25-0.5	0.25-0.5
Domain width [m]	13	13	13
Domain thickness [m]	5.0	8.0	11.0
Source Area width [m]	9.0	9.0	9.0
Source Area thickness [m]	1.5	1.5	1.5
Vadose zone thickness [m]	3.0	6.0	9.0
Saturated zone thickness [m]	2.0	2.0	2.0
Initial concentration 1.4-2.9m, [g/m ³]	10.0	10.0	10.0
Vadose/Saturated Zone Soil Parameters			
Kz/Kh	1.0	1.0	1.0
Saturated Kh [m/d]	7.0	7.0	7.0
Specific Storage	0	0	0
Porosity	0.4	0.4	0.4
Residual Moisture Content	0.045	0.045	0.045
VG alpha parameter [1/m]	-14.5	-14.5	-14.5
VG beta parameter	2.68	2.68	2.68
Soil density [g/m ³]	1.50E+06	1.50E+06	1.50E+06
Vadose Zone Solute Parameters			
Longitudinal dispersivity [m]	0.05	0.1	0.15
Transverse dispersivity [m]	0.05	0.1	0.15
Decay coefficient [1/d]	0	0	0
Fraction organic carbon (included in Kd value)	0.006	0.006	0.006
Partitioning coefficient, Kd [m ³ /g]	EPA values	EPA values	EPA values
Molecular Diffusion Coefficient [m ² /d]	EPA values	EPA values	EPA values
Saturated Zone Soil Parameters			
Kz/Kh	1.0	1.0	1.0
Saturated Kh [m/d]	7.0	7.0	7.0
Porosity	0.4	0.4	0.4
Residual Moisture Content	0.045	0.045	0.045
VG alpha parameter [1/m]	-14.5	-14.5	-14.5
VG beta parameter	2.68	2.68	2.68
Soil density [g/m ³]	1.50E+06	1.50E+06	1.50E+06
Specific Storage	0	0	0
Hydro Parameters			
Number of recharge periods	1	1	1
Recharge period length [d]	varies	varies	varies
Initial Time step [d]	0.01	0.01	0.01
Time step multiplier	1.5	1.5	1.5
Maximum Time step [d]	1	1	1
Minimum Time step [d]	0.01	0.01	0.01
Depth to water [m]	3	6	9
Time step reduction factor	0.1	0.1	0.1
Maximum head change [m]	0.05	0.05	0.05
Steady-state head criterion [m]	0	0	0
Maximum height of ponding [m]	0	0	0
Specified flux boundary [m/d]	2.50E-04	2.50E-04	2.50E-04
Groundwater gradient [m/m]	0.005	0.005	0.005
Specified total head boundary-upgradient [m]	-2.97	-5.97	-8.97
Specified total head boundary-downgradient [m]	-3.03	-6.03	-9.03

HELP Input Parameters	
Parameter	value
No. of soil layers	1
Thickness [m]	1.5
Porosity	0.457
Field Capacity	0.083
Wilting Point	0.033
Initial Moisture Content	0.166
Saturated Hydraulic Conductivity [m/d]	2.67
SCS Runoff Curve Number [%]	81.3
Fraction of Area Allowing Runoff	95
Horizontal Area [Hectares]	0.09
Evaporative Zone Depth [m]	0.15

Table 2
VS2DT Chemical Parameters

	Solubility	Hd	Koc	Di,w	DEQ-7
Constituent	mg/L		L/Kg	cm²/s	ug/L
Methyl t-Butyl Ether	4.80E+04	2.40E-02	1.20E+01	9.40E-06	30
Benzene	1.75E+03	2.28E-01	6.17E+01	9.80E-06	5
Toluene	5.26E+02	2.72E-01	1.40E+02	8.60E-06	1,000
Ethylbenzene	1.69E+02	3.23E-01	2.04E+02	7.80E-06	700
Xylenes	1.75E+02	2.76E-01	2.45E+02	8.75E-06	10,000
Naphthalene	3.10E+01	1.98E-02	1.19E+03	7.50E-06	28
Acenaphthene	4.24E+00	6.36E-03	4.90E+03	7.69E-06	420
Flourene	1.98E+00	2.61E-03	7.71E+03	7.88E-06	280
Anthracene	4.34E-02	2.67E-03	2.35E+04	7.74E-06	2100
Flouranthene	2.06E-01	6.60E-04	4.91E+04	6.35E-06	280
Pyrene	1.35E-01	4.51E-04	6.80E+04	7.24E-06	210
Benzo(a)Anthracene	9.40E-03	1.37E-04	3.58E+05	9.00E-06	0.48
Chrysene	1.60E-03	3.88E-03	3.98E+05	6.21E-06	48
Benzo(a)Pyrene	1.62E-03	4.63E-05	9.69E+05	9.00E-06	0.048
Benzo (b)Fluoranthene	1.50E-03	4.55E-03	1.23E+06	5.56E-06	0.48
Benzo (k) Fluoranthene	8.00E-04	3.40E-05	1.23E+06	5.56E-06	4.79
Dibenzo(a,h) Anthracene	2.49E-03	6.03E-07	1.79E+06	5.18E-06	0.048
Indeno(1,2,3,c,d)Pyrene	2.20E-05	6.56E-05	3.47E+06	5.66E-06	0.48

Conversions	Koc	Koc	foc 0.006	foc 0.001	Di,w	Di,w
Constituent	L/Kg	M³/g	Kd-sand	Saturated	cm²/s	m²/d
Methyl t-Butyl Ether	1.20E+01	1.20E-05	7.21E-08	1.20E-08	9.40E-06	8.12E-05
Benzene	6.17E+01	6.17E-05	3.70E-07	6.17E-08	9.80E-06	8.47E-05
Toluene	1.40E+02	1.40E-04	8.40E-07	1.40E-07	8.60E-06	7.43E-05
Ethylbenzene	2.04E+02	2.04E-04	1.22E-06	2.04E-07	7.80E-06	6.74E-05
Xylenes	2.45E+02	2.45E-04	1.47E-06	2.45E-07	8.75E-06	7.56E-05
Naphthalene	1.19E+03	1.19E-03	7.15E-06	1.19E-06	7.50E-06	6.48E-05
Acenaphthene	4.90E+03	4.90E-03	2.94E-05	4.90E-06	7.69E-06	6.64E-05
Flourene	7.71E+03	7.71E-03	4.62E-05	7.71E-06	7.88E-06	6.81E-05
Anthracene	2.35E+04	2.35E-02	1.41E-04	2.35E-05	7.74E-06	6.69E-05
Flouranthene	4.91E+04	4.91E-02	2.95E-04	4.91E-05	6.35E-06	5.49E-05
Pyrene	6.80E+04	6.80E-02	4.08E-04	6.80E-05	7.24E-06	6.26E-05
Benzo(a)Anthracene	3.58E+05	3.58E-01	2.15E-03	3.58E-04	9.00E-06	7.78E-05
Chrysene	3.98E+05	3.98E-01	2.39E-03	3.98E-04	6.21E-06	5.37E-05
Benzo(a)Pyrene	9.69E+05	9.69E-01	5.81E-03	9.69E-04	9.00E-06	7.78E-05
Benzo (b)Fluoranthene	1.23E+06	1.23E+00	7.38E-03	1.23E-03	5.56E-06	4.80E-05
Benzo (k) Fluoranthene	1.23E+06	1.23E+00	7.38E-03	1.23E-03	5.56E-06	4.80E-05
Dibenzo(a,h) Anthracene	1.79E+06	1.79E+00	1.07E-02	1.79E-03	5.18E-06	4.48E-05
Indeno(1,2,3,c,d)Pyrene	3.47E+06	3.47E+00	2.08E-02	3.47E-03	5.66E-06	4.89E-05

Table 3
EPA SSL Soil/Water Partitioning Equation

EPA SSL soil/water partitioning equation

Use Table 3 Tier 1 Groundwater RBSLs December 2008 and reorder to match Table 3 order

December 31, 2008

$$Ct = Cw * [(koc * foc) + (Pw + (Pa * Hd)) / Pb]$$

Ct = soil concentration [mg/kg]

Cw = leachate concentration [mg/L]

koc = soil organic carbon-water partition coefficient [L/kg]

foc = fraction organic carbon [kg/kg]

Pw = water-filled soil porosity

Pa = air filled soil porosity

Pb = dry soil bulk density [kg/L]

Hd = dimensionless Henry's Law

Sand 0.1m scenario	DEQ-7	Solubility			Predicted attenuation	Target source							Raw Leaching Soil Target	Round Leaching Soil Target	Csat
chemical	mg/L	mg/L	koc	Hd	source/POC	mg/L	soil	foc	Pt	Pw	Pa	Pb	[mg/kg]	[mg/kg]	[mg/kg]
C5-C8 Aliphatics	7.00E-01	1.10E+04	2.27E+03	5.40E+01	12.6	8.84E+00	sand	0.006	0.4	0.079	0.321	1.5	2.23E+02	200	2.77E+05
C9-C12 Aliphatics	1.00E+00	7.00E+01	1.50E+05	6.50E+01	12.6	1.26E+01							1.15E+04	10,000	6.40E+04
C9-C10 Aromatics	1.00E+00	5.10E+04	1.78E+03	3.30E-01	12.6	1.26E+01							1.36E+02	100	5.50E+05
Methyl t-Butyl Ether	3.00E-02	4.80E+04	1.20E+01	2.40E-02	20.1	6.03E-01							7.84E-02	0.08	6.24E+03
Benzene	5.00E-03	1.75E+03	6.17E+01	2.28E-01	16.1	8.04E-02							3.79E-02	0.04	8.25E+02
Toluene	1.00E+00	5.26E+02	1.40E+02	2.72E-01	14.6	1.46E+01							1.39E+01	10	5.00E+02
Ethylbenzene	7.00E-01	1.69E+02	2.04E+02	3.23E-01	14.1	9.90E+00							1.33E+01	10	2.27E+02
Xylenes	1.00E+01	1.75E+02	2.45E+02	2.76E-01	13.7	1.37E+02							2.17E+02	200	2.77E+02
Naphthalene	1.00E-01	3.10E+01	1.19E+03	1.98E-02	12.9	1.29E+00							9.32E+00	9	2.23E+02
1,2-Dibromoethane	4.00E-06	4.18E+03	2.50E+01	3.04E-02	18.03	7.21E-05							1.51E-05	0.00002	8.74E+02
1-2-Dichloroethane	4.00E-03	8.52E+03	1.74E+01	4.00E-02	19.23	7.69E-02							1.27E-02	0.01	1.41E+03
C9-C18 Aliphatics	1.00E+00	1.00E+01	6.80E+05	6.90E+01	12.6	1.26E+01							5.17E+04	50,000	4.09E+04
C19-C36 Aliphatics	1.00E+00	immobile	immobile	immobile	immobile	immobile							none	none	none
C11-C22 Aromatics	1.00E+00	5.80E+03	5.00E+03	3.00E-02	12.6	1.26E+01							3.80E+02	400	1.74E+05
Acenaphthene	6.70E-01	4.24E+00	4.90E+03	6.36E-03	12.6	8.46E+00							2.49E+02	200	1.25E+02
Anthracene	2.10E+00	4.34E-02	2.35E+04	2.67E-03	12.6	2.65E+01							3.74E+03	4,000	6.12E+00
Benzo(a)Anthracene	5.00E-04	9.40E-03	3.58E+05	1.37E-04	12.6	6.32E-03							1.36E+01	10	2.02E+01
Benzo(a)Pyrene	5.00E-05	1.62E-03	9.69E+05	4.63E-05	12.6	6.32E-04							3.67E+00	4	9.42E+00
Benzo (b)Fluoranthene	5.00E-04	1.50E-03	1.23E+06	4.55E-03	12.6	6.32E-03							4.66E+01	50	1.11E+01
Benzo (k) Fluoranthene	5.00E-03	8.00E-04	1.23E+06	3.40E-05	12.6	6.32E-02							4.66E+02	500	5.90E+00
Chrysene	5.00E-02	1.60E-03	3.98E+05	3.88E-03	12.6	6.32E-01							1.51E+03	2,000	3.82E+00
Dibenzo(a,h) Anthracene	5.00E-05	2.49E-03	1.79E+06	6.03E-07	12.6	6.32E-04							6.78E+00	7	2.67E+01
Fluoranthene	1.30E-01	2.06E-01	4.91E+04	6.60E-04	12.6	1.64E+00							4.84E+02	500	6.07E+01
Fluorene	1.10E+00	1.98E+00	7.71E+03	2.61E-03	12.6	1.39E+01							6.43E+02	600	9.17E+01
Indeno(1,2,3-cd)Pyrene	5.00E-04	2.20E-05	3.47E+06	6.56E-05	12.6	6.32E-03							1.32E+02	100	4.58E-01
Naphthalene	1.00E-01	3.10E+01	1.19E+03	1.98E-02	12.9	1.29E+00							9.32E+00	9	2.23E+02
Pyrene	8.30E-01	1.35E-01	6.80E+04	4.51E-04	12.6	1.05E+01							4.28E+03	4,000	5.51E+01

Table 3
EPA SSL Soil/Water Partitioning Equation

EPA SSL soil/water partitioning equation

Use Table 3 Tier 1 Groundwater RBSLs December 2008 and reorder to match Table 3 order

December 31, 2008

$$Ct = Cw * [(koc * foc) + (Pw + (Pa * Hd)) / Pb]$$

Ct = soil concentration [mg/kg]

Cw = leachate concentration [mg/L]

koc = soil organic carbon-water partition coefficient [L/kg]

foc = fraction organic carbon [kg/kg]

Pw = water-filled soil porosity

Pa = air filled soil porosity

Pb = dry soil bulk density [kg/L]

Hd = dimensionless Henry's Law

Sand 3.1m scenario					Predicted	Target								Soil Target	Round Leaching	
chemical	WQB-7	Solubility			attenuation	source								Soil Target	Soil Target	Csat
	mg/L	mg/L	koc	Hd	source/POC	mg/L	soil	foc	Pt	Pw	Pa	Pb	[mg/kg]	[mg/kg]	[mg/kg]	
C5-C8 Aliphatics	7.00E-01	1.10E+04	2.27E+03	5.40E+01	42.6	2.98E+01	sand	0.006	0.4	0.073	0.327	1.5	7.57E+02	800	2.80E+05	
C9-C12 Aliphatics	1.00E+00	7.00E+01	1.50E+05	6.50E+01	42.6	4.26E+01							3.89E+04	40,000	6.40E+04	
C9-C10 Aromatics	1.00E+00	5.10E+04	1.78E+03	3.30E-01	42.6	4.26E+01							4.59E+02	500	5.50E+05	
Methyl t-Butyl Ether	3.00E-02	4.80E+04	1.20E+01	2.40E-02	43.3	1.30E+00							1.64E-01	0.2	6.05E+03	
Benzene	5.00E-03	1.75E+03	6.17E+01	2.28E-01	43.3	2.17E-01							1.01E-01	0.1	8.20E+02	
Toluene	1.00E+00	5.26E+02	1.40E+02	2.72E-01	42.9	4.29E+01							4.07E+01	40	4.99E+02	
Ethylbenzene	7.00E-01	1.69E+02	2.04E+02	3.23E-01	42.7	2.99E+01							4.01E+01	40	2.27E+02	
Xylenes	1.00E+01	1.75E+02	2.45E+02	2.76E-01	43.0	4.30E+02							6.79E+02	700	2.76E+02	
Naphthalene	1.00E-01	3.10E+01	1.19E+03	1.98E-02	42.6	4.26E+00							3.06E+01	30	2.23E+02	
1,2-Dibromoethane	4.00E-06	4.18E+03	2.50E+01	3.04E-02	44.01	1.76E-04							3.61E-05	0.00004	8.58E+02	
1-2-Dichloroethane	4.00E-03	8.52E+03	1.74E+01	4.00E-02	43.42	1.74E-01							2.81E-02	0.03	1.38E+03	
C9-C18 Aliphatics	1.00E+00	1.00E+01	6.80E+05	6.90E+01	42.6	4.26E+01							1.74E+05	200,000	4.10E+04	
C19-C36 Aliphatics	1.00E+00	immobile	immobile	immobile	immobile	immobile							none	none	none	
C11-C22 Aromatics	1.00E+00	5.80E+03	5.00E+03	3.00E-02	42.6	4.26E+01							1.28E+03	1,000	1.74E+05	
Acenaphthene	6.70E-01	4.24E+00	4.90E+03	6.36E-03	42.6	2.85E+01							8.40E+02	800	1.25E+02	
Anthracene	2.10E+00	4.34E-02	2.35E+04	2.67E-03	42.6	8.94E+01							1.26E+04	10,000	6.12E+00	
Benzo(a)Anthracene	5.00E-04	9.40E-03	3.58E+05	1.37E-04	42.6	2.13E-02							4.57E+01	50	2.02E+01	
Benzo(a)Pyrene	5.00E-05	1.62E-03	9.69E+05	4.63E-05	42.6	2.13E-03							1.24E+01	10	9.42E+00	
Benzo (b)Fluoranthene	5.00E-04	1.50E-03	1.23E+06	4.55E-03	42.6	2.13E-02							1.57E+02	200	1.11E+01	
Benzo (k) Fluoranthene	5.00E-03	8.00E-04	1.23E+06	3.40E-05	42.6	2.13E-01							1.57E+03	2,000	5.90E+00	
Chrysene	5.00E-02	1.60E-03	3.98E+05	3.88E-03	42.6	2.13E+00							5.08E+03	5,000	3.82E+00	
Dibenzo(a,h) Anthracene	5.00E-05	2.49E-03	1.79E+06	6.03E-07	42.6	2.13E-03							2.28E+01	20	2.67E+01	
Fluoranthene	1.30E-01	2.06E-01	4.91E+04	6.60E-04	42.6	5.53E+00							1.63E+03	2,000	6.07E+01	
Fluorene	1.10E+00	1.98E+00	7.71E+03	2.61E-03	42.6	4.68E+01							2.17E+03	2,000	9.17E+01	
Indeno(1,2,3-cd)Pyrene	5.00E-04	2.20E-05	3.47E+06	6.56E-05	42.6	2.13E-02							4.43E+02	400	4.58E-01	
Naphthalene	1.00E-01	3.10E+01	1.19E+03	1.98E-02	42.6	4.26E+00							3.06E+01	30	2.23E+02	
Pyrene	8.30E-01	1.35E-01	6.80E+04	4.51E-04	42.6	3.53E+01							1.44E+04	10,000	5.51E+01	

Table 3
EPA SSL Soil/Water Partitioning Equation

EPA SSL soil/water partitioning equation

Use Table 3 Tier 1 Groundwater RBSLs December 2008 and reorder to match Table 3 order

December 31, 2008

$$Ct = Cw * [(koc * foc) + (Pw + (Pa * Hd)) / Pb]$$

Ct = soil concentration [mg/kg]

Cw = leachate concentration [mg/L]

koc = soil organic carbon-water partition coefficient [L/kg]

foc = fraction organic carbon [kg/kg]

Pw = water-filled soil porosity

Pa = air filled soil porosity

Pb = dry soil bulk density [kg/L]

Hd = dimensionless Henry's Law

Sand 6.1m scenario					Predicted attenuation	Target source								Soil Target	Round Leaching	Csat
chemical	WQB-7 mg/L	Solubility mg/L	koc	Hd	source/POC	mg/L	soil	foc	Pt	Pw	Pa	Pb	[mg/kg]	[mg/kg]	[mg/kg]	
C5-C8 Aliphatics	7.00E-01	1.10E+04	2.27E+03	5.40E+01	65.8	4.60E+01	sand	0.006	0.4	0.073	0.327	1.5	1.17E+03	1,000	2.80E+05	
C9-C12 Aliphatics	1.00E+00	7.00E+01	1.50E+05	6.50E+01	65.8	6.58E+01							6.01E+04	60,000	6.40E+04	
C9-C10 Aromatics	1.00E+00	5.10E+04	1.78E+03	3.30E-01	65.8	6.58E+01							7.10E+02	700	5.50E+05	
Methyl t-Butyl Ether	3.00E-02	4.80E+04	1.20E+01	2.40E-02	66.7	2.00E+00							2.52E-01	0.3	6.05E+03	
Benzene	5.00E-03	1.75E+03	6.17E+01	2.28E-01	66.8	3.34E-01							1.56E-01	0.2	8.20E+02	
Toluene	1.00E+00	5.26E+02	1.40E+02	2.72E-01	66.3	6.63E+01							6.28E+01	60	4.99E+02	
Ethylbenzene	7.00E-01	1.69E+02	2.04E+02	3.23E-01	65.9	4.62E+01							6.20E+01	60	2.27E+02	
Xylenes	1.00E+01	1.75E+02	2.45E+02	2.76E-01	66.3	6.63E+02							1.05E+03	1,000	2.76E+02	
Naphthalene	1.00E-01	3.10E+01	1.19E+03	1.98E-02	65.8	6.58E+00							4.74E+01	50	2.23E+02	
1,2-Dibromoethane	4.00E-06	4.18E+03	2.50E+01	3.04E-02	67.71	2.71E-04							5.56E-05	0.0001	8.58E+02	
1-2-Dichloroethane	4.00E-03	8.52E+03	1.74E+01	4.00E-02	66.87	2.67E-01							4.33E-02	0.04	1.38E+03	
C9-C18 Aliphatics	1.00E+00	1.00E+01	6.80E+05	6.90E+01	65.8	6.58E+01							2.69E+05	300,000	4.10E+04	
C19-C36 Aliphatics	1.00E+00	immobile	immobile	immobile	immobile	immobile							none	none	none	
C11-C22 Aromatics	1.00E+00	5.80E+03	5.00E+03	3.00E-02	65.8	6.58E+01							1.98E+03	2,000	1.74E+05	
Acenaphthene	6.70E-01	4.24E+00	4.90E+03	6.36E-03	65.8	4.41E+01							1.30E+03	1,000	1.25E+02	
Anthracene	2.10E+00	4.34E-02	2.35E+04	2.67E-03	65.8	1.38E+02							1.95E+04	20,000	6.12E+00	
Benzo(a)Anthracene	5.00E-04	9.40E-03	3.58E+05	1.37E-04	65.8	3.29E-02							7.06E+01	70	2.02E+01	
Benzo(a)Pyrene	5.00E-05	1.62E-03	9.69E+05	4.63E-05	65.8	3.29E-03							1.91E+01	20	9.42E+00	
Benzo (b)Fluoranthene	5.00E-04	1.50E-03	1.23E+06	4.55E-03	65.8	3.29E-02							2.43E+02	200	1.11E+01	
Benzo (k) Fluoranthene	5.00E-03	8.00E-04	1.23E+06	3.40E-05	65.8	3.29E-01							2.43E+03	2,000	5.90E+00	
Chrysene	5.00E-02	1.60E-03	3.98E+05	3.88E-03	65.8	3.29E+00							7.85E+03	8,000	3.82E+00	
Dibenzo(a,h) Anthracene	5.00E-05	2.49E-03	1.79E+06	6.03E-07	65.8	3.29E-03							3.53E+01	40	2.67E+01	
Fluoranthene	1.30E-01	2.06E-01	4.91E+04	6.60E-04	65.8	8.55E+00							2.52E+03	3,000	6.07E+01	
Fluorene	1.10E+00	1.98E+00	7.71E+03	2.61E-03	65.8	7.24E+01							3.35E+03	3,000	9.17E+01	
Indeno(1,2,3-cd)Pyrene	5.00E-04	2.20E-05	3.47E+06	6.56E-05	65.8	3.29E-02							6.85E+02	700	4.58E-01	
Naphthalene	1.00E-01	3.10E+01	1.19E+03	1.98E-02	65.8	6.58E+00							4.74E+01	50	2.23E+02	
Pyrene	8.30E-01	1.35E-01	6.80E+04	4.51E-04	65.8	5.46E+01							2.23E+04	20,000	5.51E+01	

Table 4
VS2DT DAFs and Travel Times

0.1 meter sand scenario					
		Source area	POC well		
Chemical	Koc	Initial conc.	Max conc.	Time	DAF
	L/Kg	[mg/L]	[mg/L]	[d]	source/POC
Methyl t-Butyl Ether	12	10	0.4974	128	20.1
Benzene	62	10	0.6220	162	16.1
Toluene	140	10	0.6862	221	14.6
Ethylbenzene	204	10	0.7069	271	14.1
Xylenes	245	10	0.7275	301	13.7
Naphthalene	1191	10	0.7732	1016	12.934
Flourene	7707	1	0.0792	5953	12.634
Pyrene	67992	0.1	0.0079	70340	12.700

3.1 meter sand scenario					
		Source area	POC well		
Chemical	Koc	Initial conc.	Max conc.	Time	DAF
	L/Kg	[mg/L]	[mg/L]	[d]	source/POC
Methyl t-Butyl Ether	12	10	0.2308	2560	43.3
Benzene	62	10	0.2308	8628	43.3
Toluene	140	10	0.2329	18320	42.9
Ethylbenzene	204	10	0.2343	26210	42.7
Xylenes	245	10	0.2327	31220	43.0
Naphthalene	1191	10	0.2349	148200	42.6

6.1 meter sand scenario					
		Source area	POC well		
Chemical	Koc	Initial conc.	Max conc.	Time	DAF
	L/Kg	[mg/L]	[mg/L]	[d]	source/POC
Methyl t-Butyl Ether	12	10	0.1499	4638	66.7
Benzene	62	10	0.1497	15830	66.8
Toluene	140	10	0.1509	33720	66.3
Ethylbenzene	204	10	0.1517	48200	65.9
Xylenes	245	10	0.1508	57670	66.3
Naphthalene	1191	10	0.1520	273000	65.8

Table 5
VS2DT Mass Balance

MTBE 0.1m sand	water balance [m³]
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	2.01E+01
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-2.11E+01
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	9.75E-01
TOTAL FLUX INTO DOMAIN	2.11E+01
TOTAL FLUX OUT OF DOMAIN	-2.11E+01
CHANGE IN FLUID STORED IN DOMAIN	-1.83E-04
FLUID VOLUME BALANCE	-2.05E-03
MTBE 3M FLUID BALANCE/TOTAL FLUX OUT	9.75E-05
MTBE 0.1m sand	Solute balance [g]
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-6.13E+00
TOTAL FLUX OUT OF DOMAIN	-6.13E+00
ADSORPTION/ION EXCHANGE	-1.00E+01
CHANGE IN SOLUTE STORED IN DOMAIN	-1.53E+00
SOLUTE MASS BALANCE	-1.26E-02
SOLUTE INITIAL MASS	68.6043
MTBE 3M SOLUTE BALANCE/INITIAL MASS	-1.84E-04
MTBE 6.1m Sand	water balance [m³]
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	5.02E+02
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-5.27E+02
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	2.44E+01
TOTAL FLUX INTO DOMAIN	5.27E+02
TOTAL FLUX OUT OF DOMAIN	-5.27E+02
CHANGE IN FLUID STORED IN DOMAIN	-6.20E-04
FLUID VOLUME BALANCE	-1.93E-03
MTBE 9M FLUID BALANCE/TOTAL FLUX OUT	3.66E-06
MTBE 6.1m Sand	Solute balance [g]
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-2.38E+01
TOTAL FLUX OUT OF DOMAIN	-2.38E+01
ADSORPTION/ION EXCHANGE	-3.78E-01
CHANGE IN SOLUTE STORED IN DOMAIN	-9.57E+00
SOLUTE MASS BALANCE	-3.98E-02
SOLUTE INITIAL MASS	68.6043
MTBE 9M SOLUTE BALANCE/INITIAL MASS	-5.80E-04
Naphthalene 0.1m sand	water balance [m³]
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	1.00E+02
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-1.05E+02
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	4.88E+00
TOTAL FLUX INTO DOMAIN	1.05E+02
TOTAL FLUX OUT OF DOMAIN	-1.05E+02
CHANGE IN FLUID STORED IN DOMAIN	-1.83E-04
FLUID VOLUME BALANCE	-2.10E-03
NAPHTHALENE 3M FLUID BALANCE/TOTAL FLUX OUT	1.99E-05
Naphthalene 0.1m sand	Solute balance [g]
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-3.88E+01
TOTAL FLUX OUT OF DOMAIN	-3.88E+01
ADSORPTION/ION EXCHANGE	-1.41E+03
CHANGE IN SOLUTE STORED IN DOMAIN	2.83E+00
SOLUTE MASS BALANCE	-7.03E-02
SOLUTE INITIAL MASS	1501.065
NAPHTHALENE 3M SOLUTE BALANCE/INITIAL MASS	-4.68E-05
Naphthalene 6.1m sand	water balance [m³]
FLUX INTO DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	2.01E+04
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-2.11E+04
FLUX INTO DOMAIN ACROSS FLUX BOUNDARIES	9.75E+02
TOTAL FLUX INTO DOMAIN	2.11E+04
TOTAL FLUX OUT OF DOMAIN	-2.11E+04
CHANGE IN FLUID STORED IN DOMAIN	-6.20E-04
FLUID VOLUME BALANCE	-7.55E-03
NAPHTHALENE 9M FLUID BALANCE/TOTAL FLUX OUT	3.58E-07
Naphthalene 6.1m sand	Solute balance [g]
FLUX OUT OF DOMAIN ACROSS PRESSURE HEAD BOUNDARIES	-8.39E+02
TOTAL FLUX OUT OF DOMAIN	-8.39E+02
ADSORPTION/ION EXCHANGE	-6.24E+02
CHANGE IN SOLUTE STORED IN DOMAIN	-4.86E+00
SOLUTE MASS BALANCE	-1.04E+01
SOLUTE INITIAL MASS	1501.065
NAPHTHALENE 9M SOLUTE BALANCE/INITIAL MASS	-6.90E-03

Percent Mass Balance	Value	Percent
MTBE 0.1M FLUID	9.75E-05	9.75E-03
MTBE 6.1M FLUID	3.66E-06	3.66E-04
NAPHTHALENE 0.1M FLUID	1.99E-05	1.99E-03
NAPHTHALENE 6.1M FLUID	3.58E-07	3.58E-05
MTBE 0.1M SOLUTE	-1.84E-04	1.84E-02
MTBE 6.1M SOLUTE	-5.80E-04	5.80E-02
NAPHTHALENE 0.1M SOLUTE	-4.68E-05	4.68E-03
NAPHTHALENE 6.1M SOLUTE	-6.90E-03	6.90E-01

Initial Total Mass Calculation	moisture		total	soil	starting	water	soil	
	Kd	concentration						porosity
Chemical	m ³ /g	g/m ³		m ³	g/m ³	g	g	g
Methyl t-Butyl Ether	7.21E-08	10	0.4	13.5	1.50E+06	6.86E+01	5.40E+01	1.46E+01
Benzene	3.70E-07	10	0.4	13.5	1.50E+06	1.29E+02	5.40E+01	7.50E+01
Toluene	8.40E-07	10	0.4	13.5	1.50E+06	2.24E+02	5.40E+01	1.70E+02
Ethylbenzene	1.22E-06	10	0.4	13.5	1.50E+06	3.02E+02	5.40E+01	2.48E+02
Xylenes	1.47E-06	10	0.4	13.5	1.50E+06	3.52E+02	5.40E+01	2.98E+02
Naphthalene	7.15E-06	10	0.4	13.5	1.50E+06	1.50E+03	5.40E+01	1.45E+03

Water Balance Summary	MTBE 0.1m	MTBE 6.1m	Naph 0.1m	Naph 6.1m
FLUX IN/FLUX BOUNDARIES [M ³]	9.75E-01	2.44E+01	4.88E+00	9.75E+02
FLUX IN/PRESSURE HEAD BOUNDARIES [M ³]	2.01E+01	5.02E+02	1.00E+02	2.01E+04
TOTAL FLUX IN [M ³]	2.11E+01	5.27E+02	1.05E+02	2.11E+04

Table 6
Sensitivity Results

VS2DT Parameter	Time [d]	conc [g/m ³]	Case
Base case ben	1.62E+02	6.22E-01	
foc vad 0.001 Kd 6.17E-8	1.49E+02	4.72E-01	low
foc vad 0.01 Kd 6.17E-7	1.78E+02	6.86E-01	high
foc sat 0.006 Kd 3.70E-7	2.86E+02	5.27E-01	mid
foc sat 0.01 Kd 6.17E-7	3.89E+02	4.86E-01	high
Dw 4.23 m ² /d	1.64E+02	5.88E-01	mid
Dw 0.0 m ² /d	1.67E+02	5.49E-01	low
Deg 360 d vad	1.44E+02	5.30E-01	mid
Deg 360 d sat	1.55E+02	5.46E-01	mid
Deg 360 d both	1.39E+02	4.67E-01	mid
Deg 180 d vad	1.33E+02	4.62E-01	high
Deg 180 d sat	1.49E+02	4.82E-01	high
Deg 180 d both	1.24E+02	3.64E-01	high
Dt = 0.01 m vad	2.04E+02	5.23E-01	low
DI = 0.01 m vad	1.60E+02	5.80E-01	low
Dt = 0.1 m vad	1.50E+02	6.68E-01	high
DI = 0.1 m vad	1.63E+02	6.66E-01	high
DI = 1.3 m sat	1.78E+02	5.64E-01	high
DI=0.1 m sat	1.48E+02	7.21E-01	low
Dt=0.1 m sat	1.58E+02	6.08E-01	high
Dt = 0.0325 m sat	1.75E+02	6.05E-01	low
Gradient 0.001	6.14E+02	1.23E+00	low
Gradient 0.01	6.96E+01	4.69E-01	high
Infil 5.0E-5	1.43E+02	4.41E-01	low
Infil 5.0E-4	1.90E+02	8.98E-01	high
Vad K 1.0 m/d	2.24E+02	5.31E-01	low
Vad K 15.0 m/d	1.39E+02	6.67E-01	high
Sat K 1.0 m/d	1.13E+03	2.08E+00	low
Sat K 15.0 m/d	7.96E+01	3.92E-01	high
BD 1.3	1.56E+02	6.09E-01	low
BD 1.7	1.69E+02	6.34E-01	high
Anis 0.5	1.62E+02	6.22E-01	mid
Anis 0.1	1.63E+02	6.24E-01	low
0.5 m source thickness	1.62E+02	6.22E-01	low
2.9 m source thickness	1.62E+02	6.22E-01	high
3 m horiz thickness	1.88E+02	2.22E-01	low
6 m horiz thickness	1.72E+02	4.43E-01	mid

VS2DT Model	Param	high	mid	low	Base
Sensitivity Summary	Sensitivity	value	value	value	Case
Saturated zone conductivity [m/d]	5.30	1.50E+01	7.00E+00	1.00E+00	7.00E+00
Source width [m]	2.80	9.00E+00	6.00E+00	3.00E+00	9.00E+00
Ground water gradient [m/m]	2.61	1.00E-02	5.00E-03	1.00E-03	5.00E-03
Percolation rate [m/d]	2.04	5.00E-04	2.50E-04	5.00E-05	2.50E-04
Vadose/Saturated zone degradation rate [1/d]	1.71	3.85E-03	1.93E-03	0.00E+00	0.00E+00
Vadose zone organic carbon content [g/g]	1.45	1.00E-02	6.00E-03	1.00E-03	6.00E-03
Vadose zone degradation rate [1/d]	1.35	3.85E-03	1.93E-03	0.00E+00	0.00E+00
Saturated zone degradation rate [1/d]	1.29	3.85E-03	1.93E-03	0.00E+00	0.00E+00
Saturated zone longitudinal dispersivity [m]	1.28	1.30E+00	6.50E-01	1.00E-01	6.50E-01
Saturated zone organic carbon content [g/g]	1.28	1.00E-02	6.00E-03	1.00E-03	1.00E-03
Vadose zone transverse dispersivity [m]	1.28	1.00E-01	5.00E-02	1.00E-02	5.00E-02
Vadose zone conductivity [m/d]	1.26	1.50E+01	7.00E+00	1.00E+00	7.00E+00
Vadose zone longitudinal dispersivity [m]	1.15	1.00E-01	5.00E-02	1.00E-02	5.00E-02
Vadose/Saturated zone molecular diffusivity [m ² /d]	1.13	8.47E-05	4.23E-05	0.00E+00	8.47E-05
Vadose/Saturated zone bulk density [g/m ³]	1.04	1.70E+00	1.50E+00	1.30E+00	1.50E+00
Saturated zone transverse dispersivity [m]	1.01	1.00E-01	6.50E-02	3.25E-02	6.50E-02
Vadose zone anisotropy Kz/Kx	1.00	1.00E-01	5.00E-01	1.00E+00	1.00E+00
Source thickness [m]	1.00	2.90E+00	1.50E+00	5.00E-01	1.50E+00

HELP Model	Param	high	mid	low	Base
Sensitivity Summary	Sensitivity	value	value	value	Case
soil type	3.23	Coarse snd	Silty snd	Clay	Silty snd
Climate database city	2.20	Kalispell	Billings	Helena	Kalispell
ET depth [cm]	1.89	30	15	5	15
Area available for runoff [cm]	1.13	100%	95%	80%	95%
Vegetative Cover-LAI Index	1.07	4	2	1	1
Surface slope	1.00	10%	5%	1%	1%

HELP Parameter	Percolation [mm/yr]
Kalispell base	83.12
Billings	64.77
Helena	37.79
5% slope	83.04
10% slope	83.00
Coarse sand	120.11
clay	37.15
100% runoff	80.93
80% runoff	91.17
ET depth 5 cm	132.99
ET depth 30 cm	70.40
LAI 2	77.04
LAI 4	82.81

Figure 1 - Equilibrium Moisture Profile

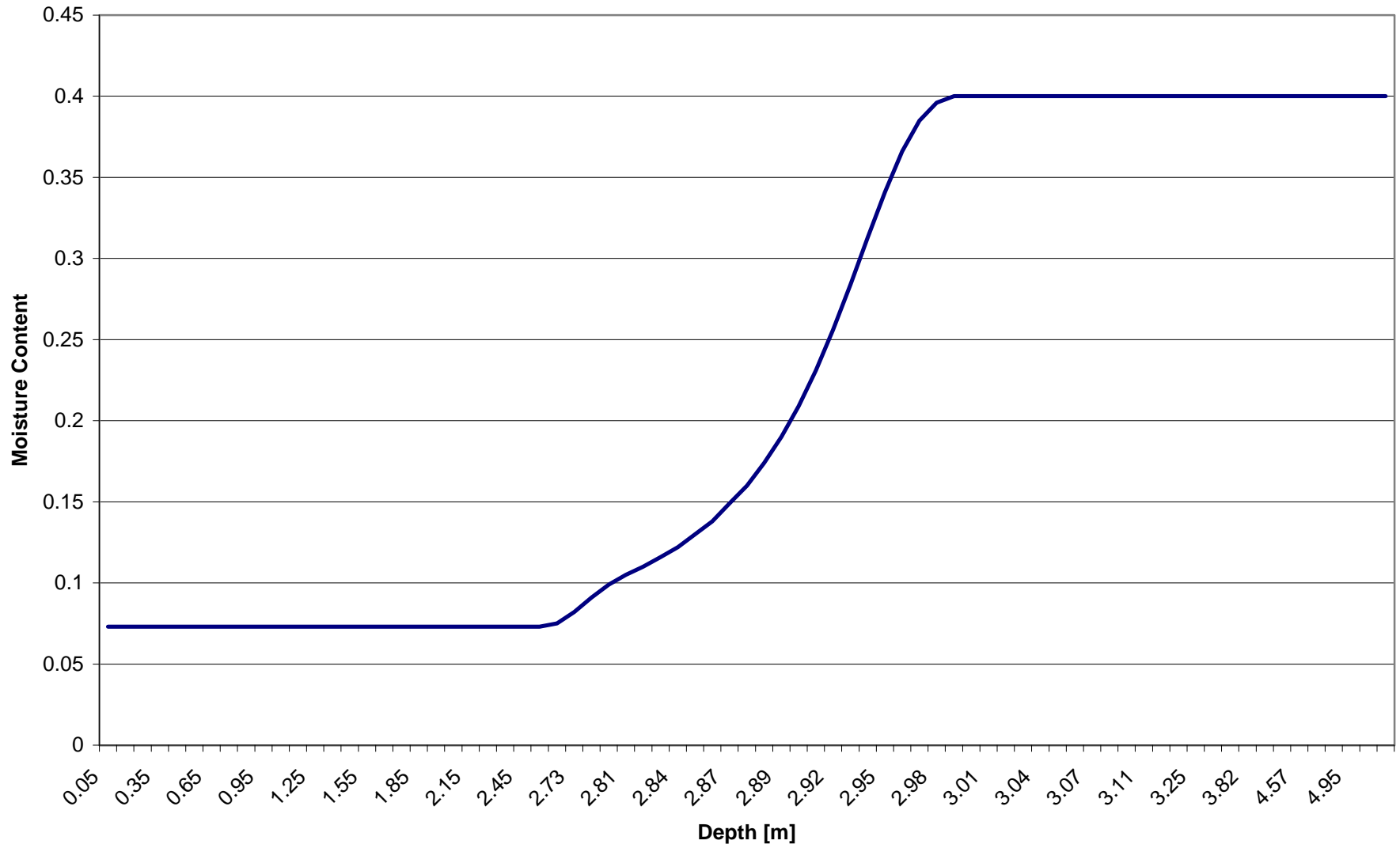


Figure 2 - Benzene Sand 0.1m : conc vs time

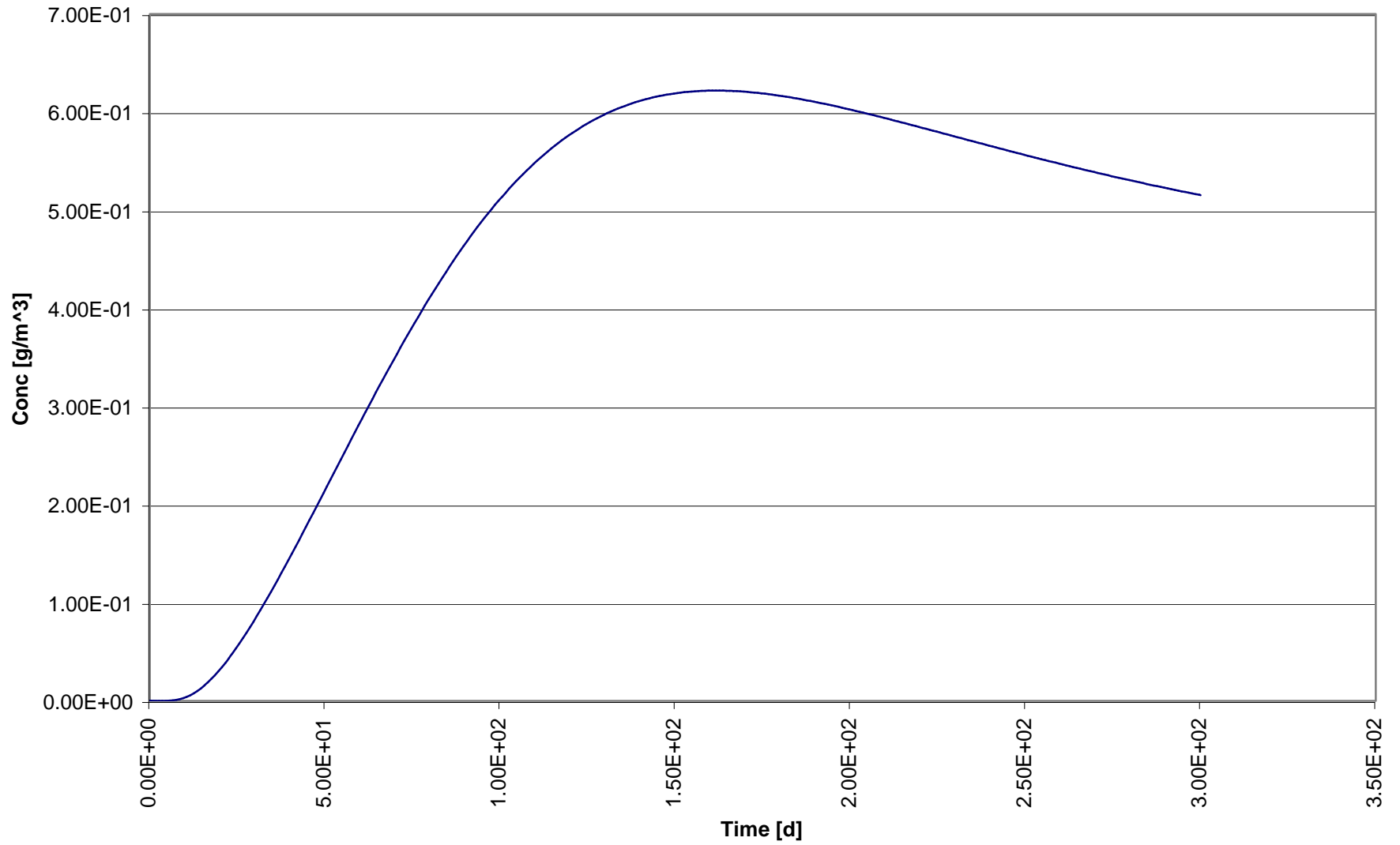


Figure 3 - Naphthalene Sand 0.1m : conc. vs time

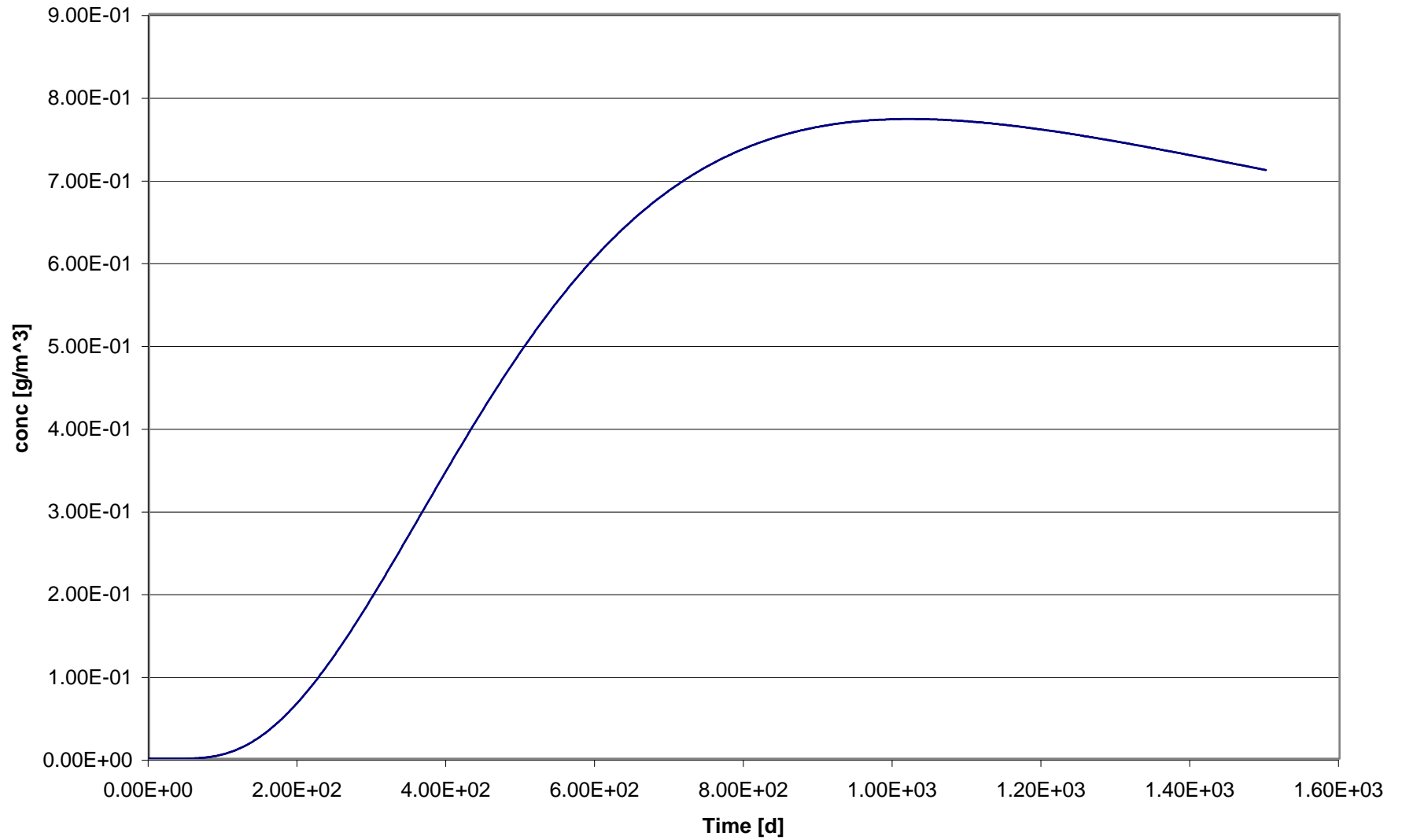


Figure 4 - Benzene Concentration 50 days

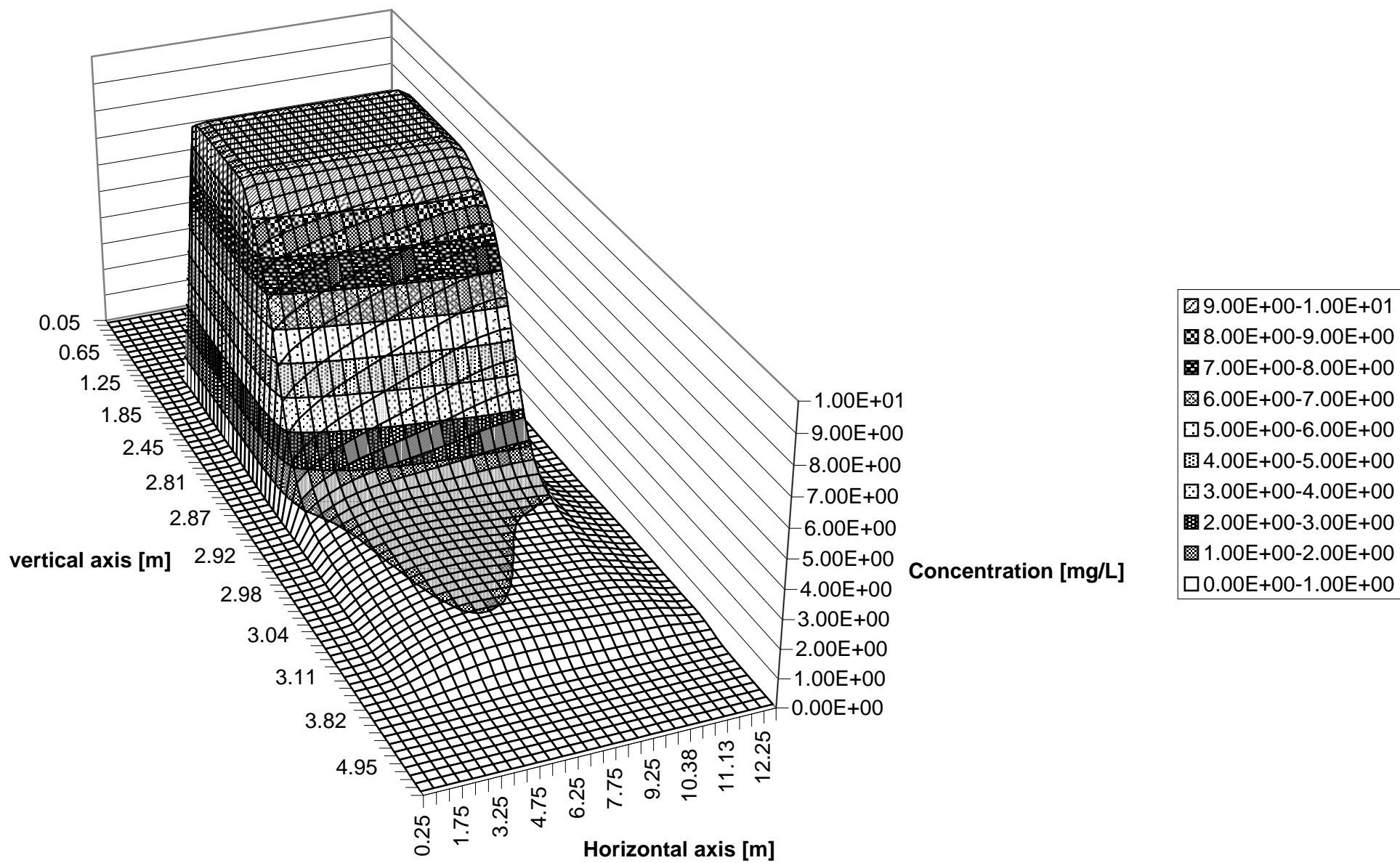


Figure 5 - Benzene concentration 162 d

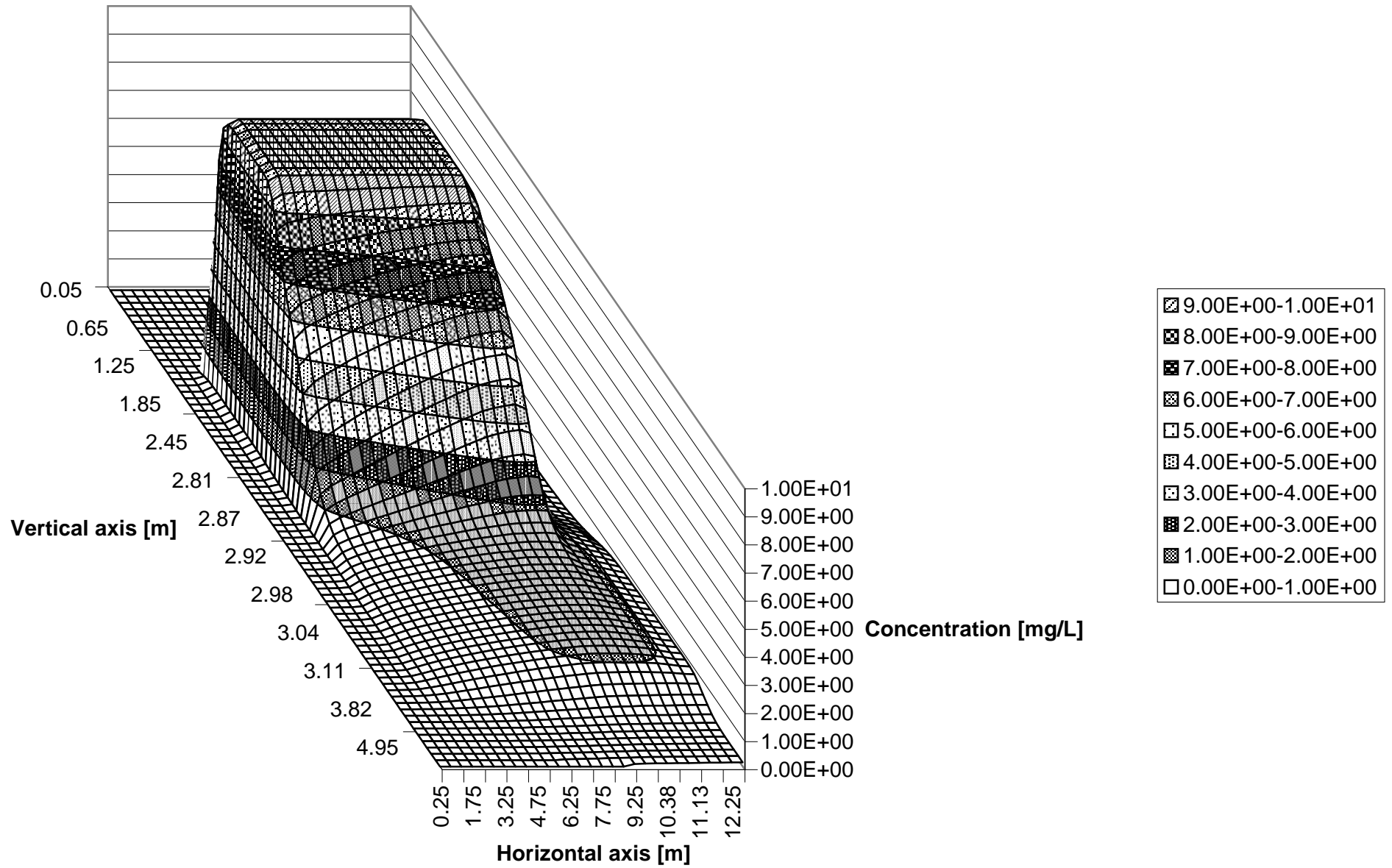


Figure 6 - Benzene Concentration 500 days

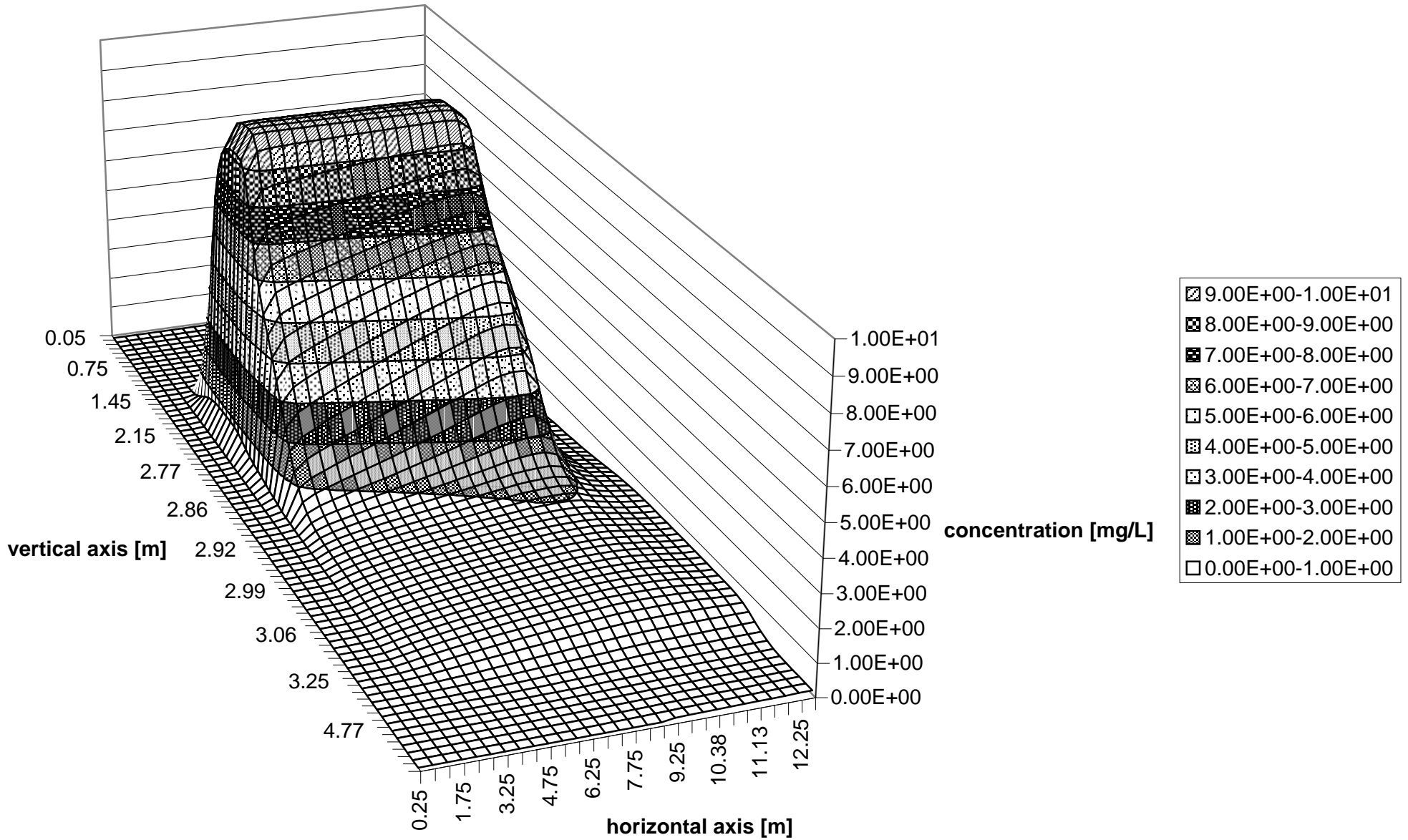


Figure 7 - VS2DT Dilution Attenuation Factors

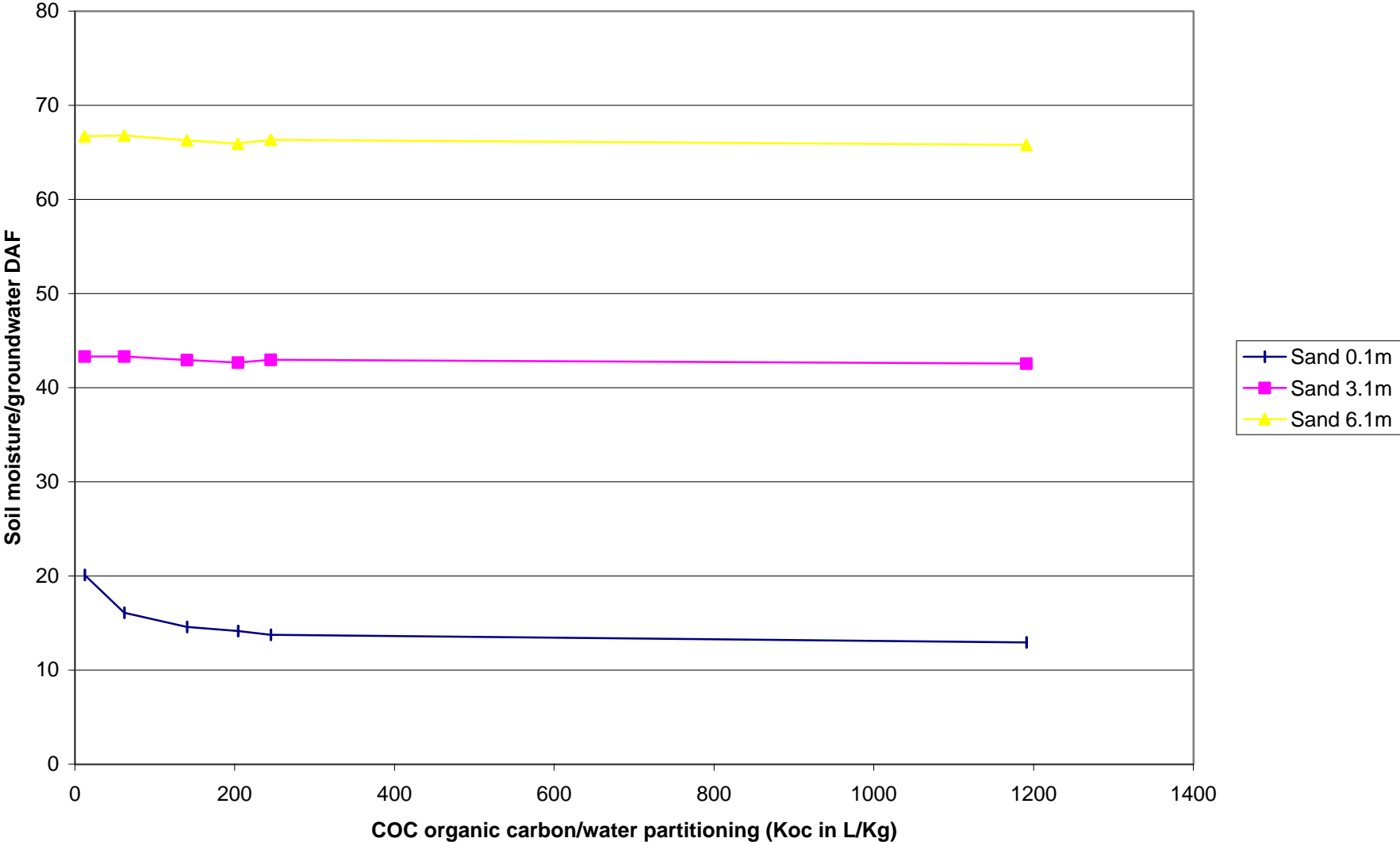


Figure 8 - Water Balance

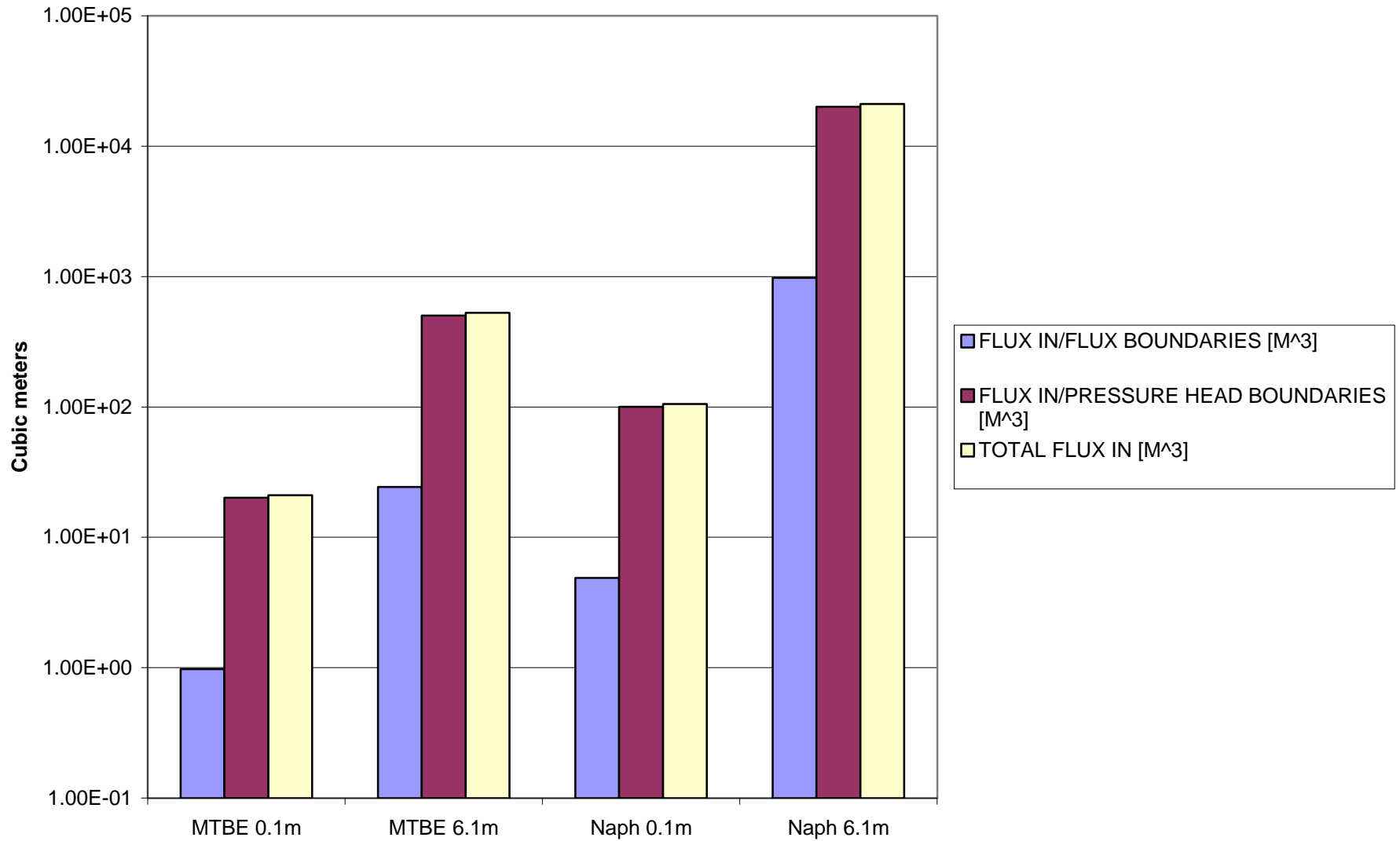


Figure 9 - Percent Mass Balance Error

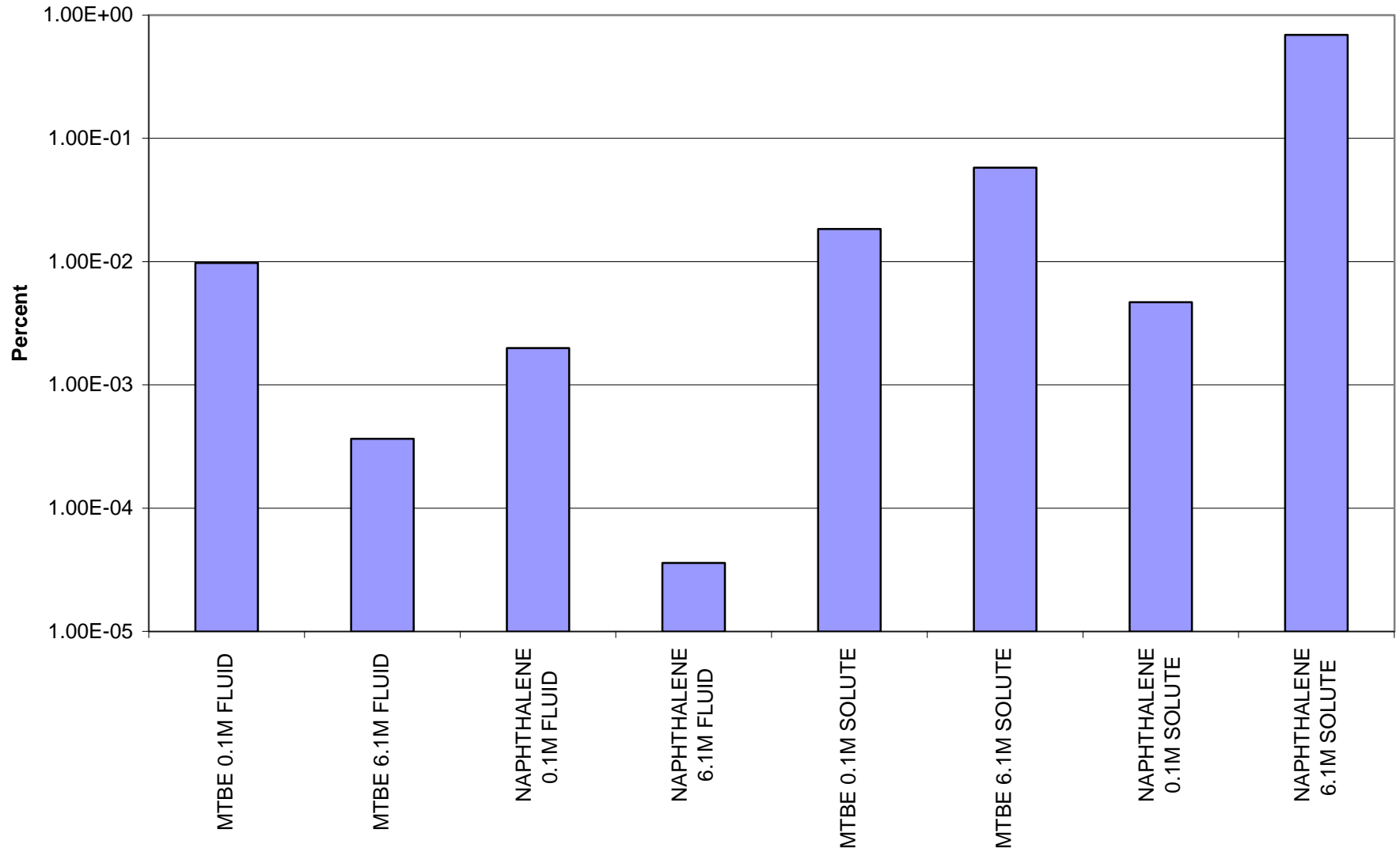


Figure 10 - Total sorbed mass : 0.1m benzene

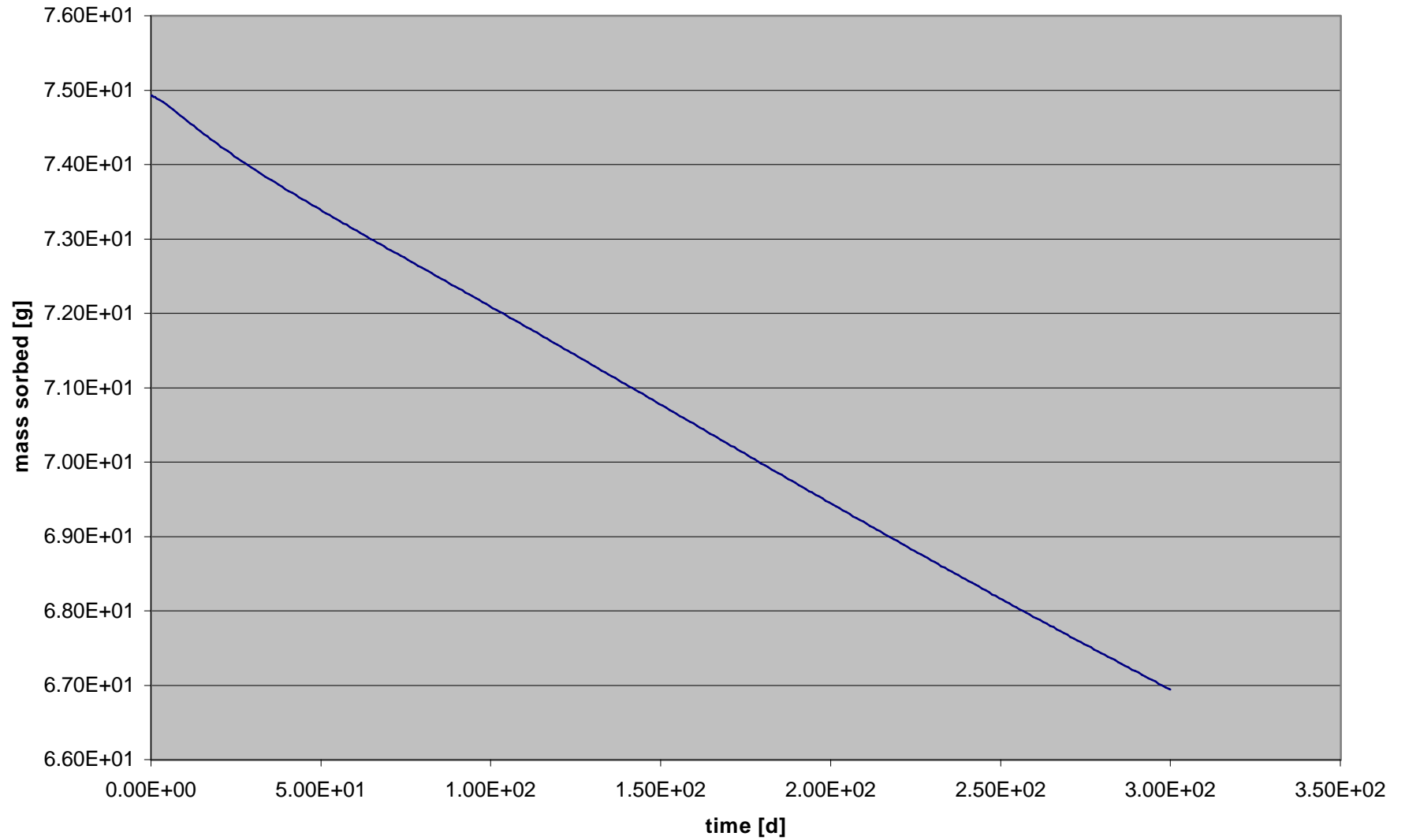


Figure 11 - Desorption rate : 0.1m benzene

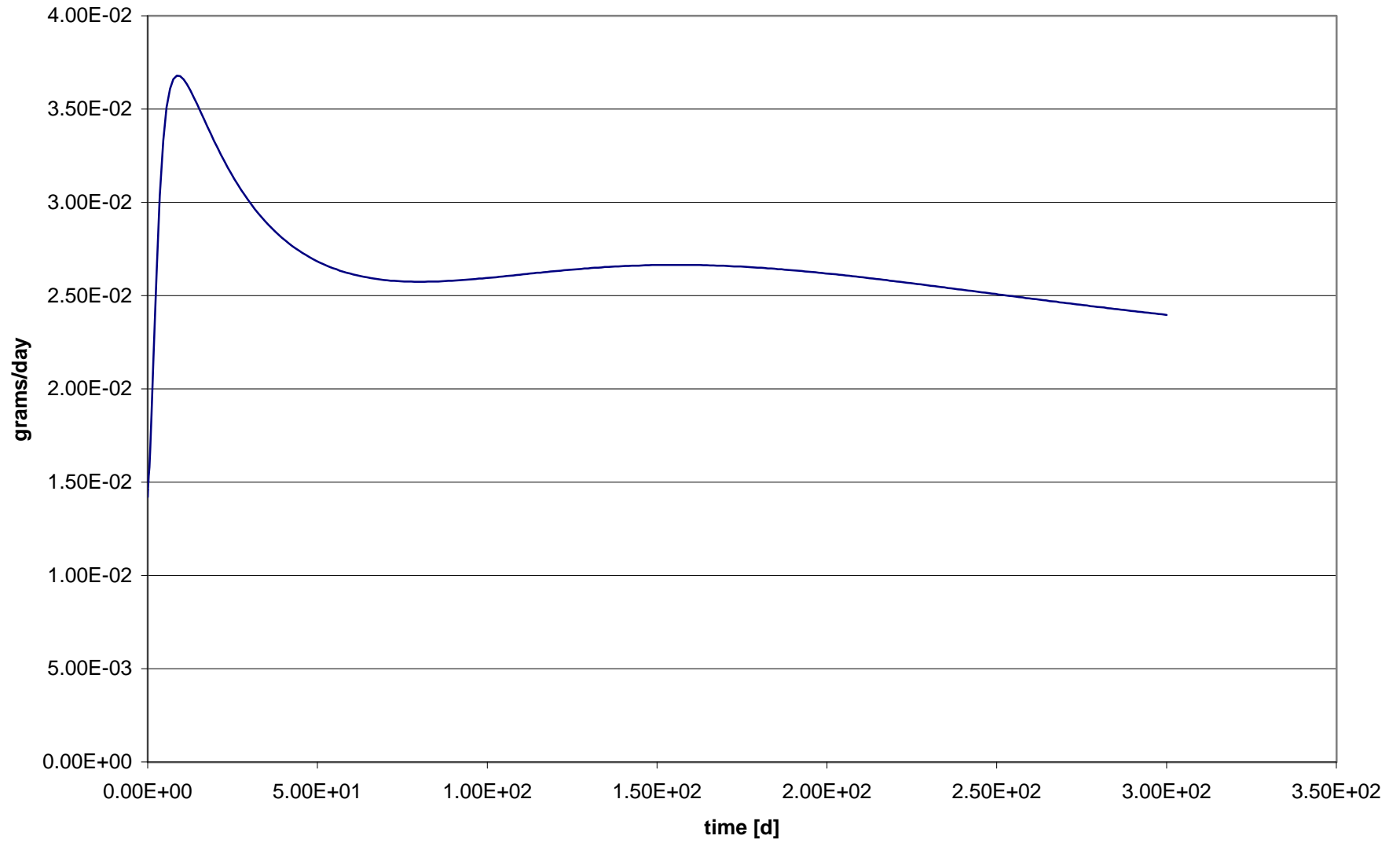


Figure 12 - VS2DT 0.1m Benzene Sensitivity

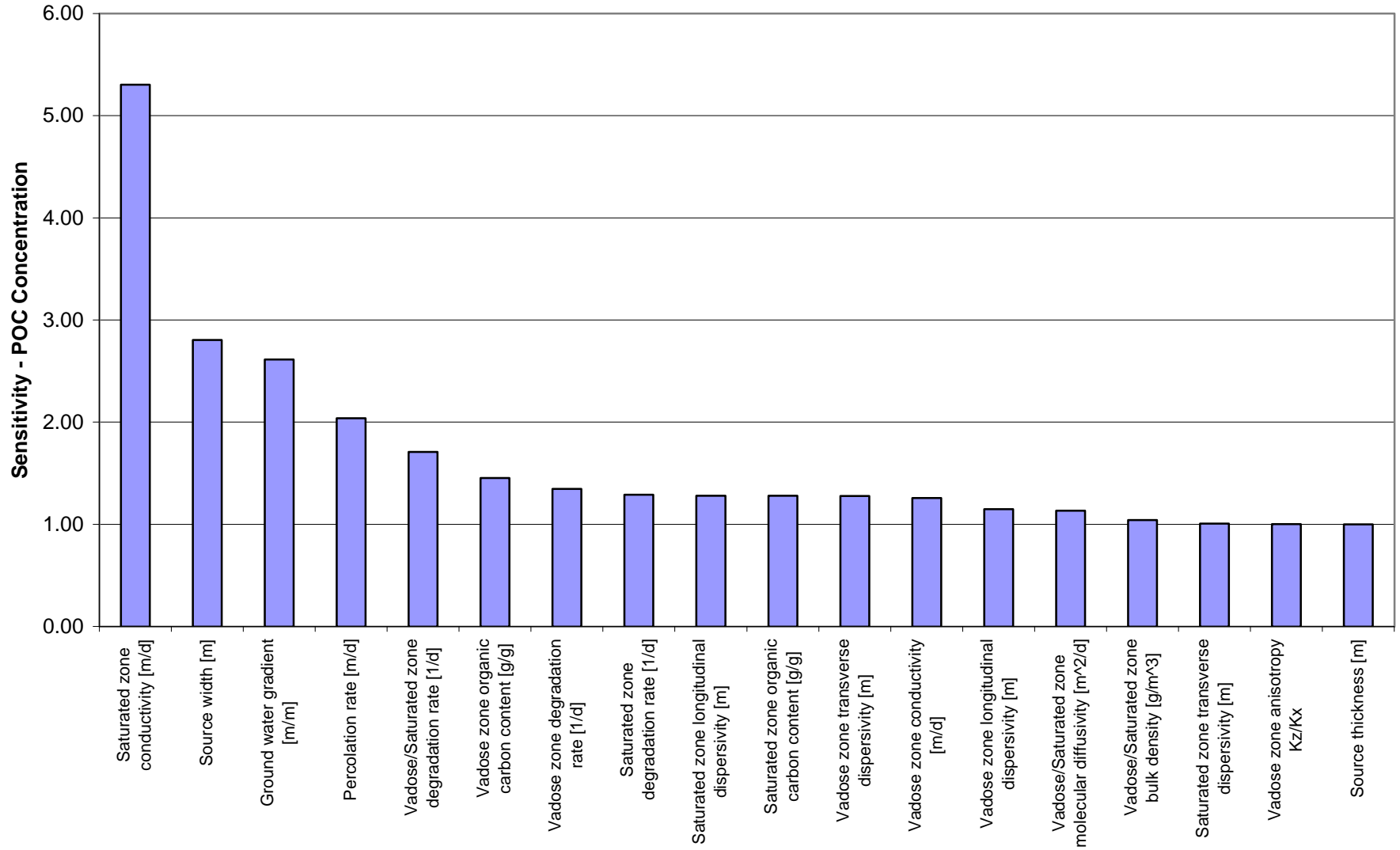
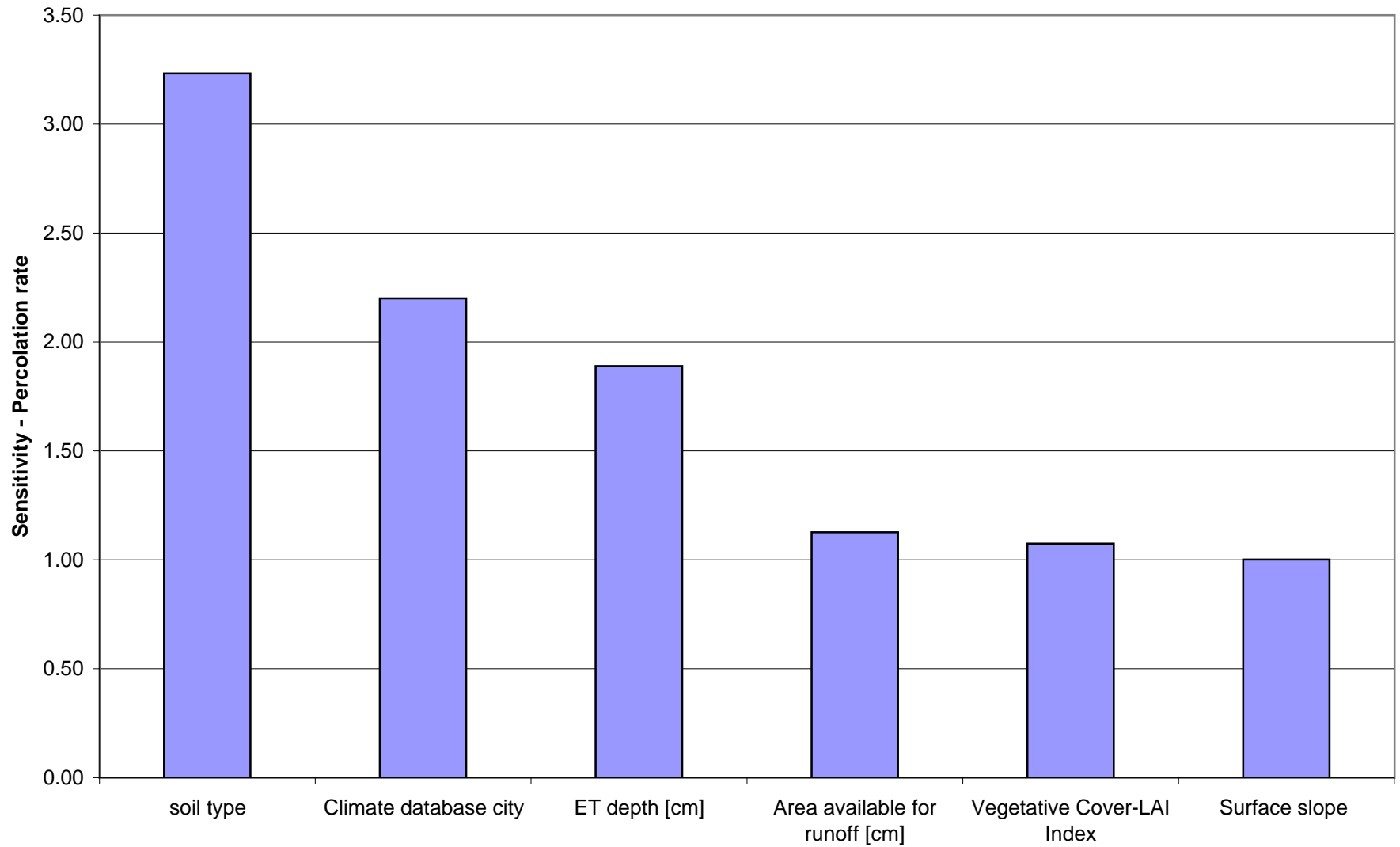


Figure 13 - HELP Sensitivity



GENERAL DESIGN AND EVAPORATIVE ZONE DATA

NOTE: SCS RUNOFF CURVE NUMBER WAS COMPUTED FROM DEFAULT
 SOIL DATA BASE USING SOIL TEXTURE # 3 WITH BARE
 GROUND CONDITIONS, A SURFACE SLOPE OF 1.% AND
 A SLOPE LENGTH OF 30. METERS.

SCS RUNOFF CURVE NUMBER	=	81.30	
FRACTION OF AREA ALLOWING RUNOFF	=	95.0	PERCENT
AREA PROJECTED ON HORIZONTAL PLANE	=	0.0900	HECTARES
EVAPORATIVE ZONE DEPTH	=	15.0	CM
INITIAL WATER IN EVAPORATIVE ZONE	=	4.499	CM
UPPER LIMIT OF EVAPORATIVE STORAGE	=	6.855	CM
LOWER LIMIT OF EVAPORATIVE STORAGE	=	0.495	CM
INITIAL SNOW WATER	=	0.000	CM
INITIAL WATER IN LAYER MATERIALS	=	24.937	CM
TOTAL INITIAL WATER	=	24.937	CM
TOTAL SUBSURFACE INFLOW	=	0.00	MM/YR

EVAPOTRANSPIRATION AND WEATHER DATA

NOTE: EVAPOTRANSPIRATION DATA WAS OBTAINED FROM
 KALISPELL MONTANA

STATION LATITUDE	=	48.18	DEGREES
MAXIMUM LEAF AREA INDEX	=	0.00	
START OF GROWING SEASON (JULIAN DATE)	=	142	
END OF GROWING SEASON (JULIAN DATE)	=	260	
EVAPORATIVE ZONE DEPTH	=	15.0	CM
AVERAGE ANNUAL WIND SPEED	=	10.00	KPH
AVERAGE 1ST QUARTER RELATIVE HUMIDITY	=	74.00	%
AVERAGE 2ND QUARTER RELATIVE HUMIDITY	=	61.00	%
AVERAGE 3RD QUARTER RELATIVE HUMIDITY	=	60.00	%
AVERAGE 4TH QUARTER RELATIVE HUMIDITY	=	76.00	%

NOTE: PRECIPITATION DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR KALISPELL MONTANA

NORMAL MEAN MONTHLY PRECIPITATION (MM)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
41.1	26.9	21.3	26.9	44.7	56.9
23.9	36.6	28.2	24.9	32.8	40.4

NOTE: TEMPERATURE DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR KALISPELL MONTANA

NORMAL MEAN MONTHLY TEMPERATURE (DEGREES CELSIUS)

JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
-7.1	-3.2	-0.1	5.8	10.8	14.6
18.3	17.5	12.2	5.8	-0.6	-4.3

NOTE: SOLAR RADIATION DATA WAS SYNTHETICALLY GENERATED USING
 COEFFICIENTS FOR KALISPELL MONTANA
 AND STATION LATITUDE = 48.18 DEGREES

AVERAGE MONTHLY VALUES (MM) FOR YEARS 1 THROUGH 30

	JAN/JUL	FEB/AUG	MAR/SEP	APR/OCT	MAY/NOV	JUN/DEC
PRECIPITATION						
TOTALS	37.60	31.00	20.64	29.16	53.05	52.39
	27.18	30.33	24.99	29.03	31.46	38.23
STD. DEVIATIONS	13.07	14.99	10.91	13.28	23.26	29.95
	14.24	18.92	12.89	14.86	11.97	9.14
RUNOFF						
TOTALS	4.764	24.150	31.386	14.138	1.436	0.018
	0.003	0.000	0.000	0.000	1.183	3.160
STD. DEVIATIONS	7.183	20.384	31.749	10.273	4.604	0.099
	0.017	0.000	0.000	0.000	3.190	4.471
EVAPOTRANSPIRATION						
TOTALS	8.257	7.607	8.256	18.690	45.183	43.272
	25.074	25.498	21.680	17.389	13.248	8.453
STD. DEVIATIONS	1.351	1.523	4.023	10.394	16.985	23.349
	11.234	17.417	11.372	8.611	3.704	2.653
PERCOLATION/LEAKAGE THROUGH LAYER 1						
TOTALS	7.2976	5.6015	4.9093	3.9648	6.3922	12.5139
	11.1914	8.6942	6.4618	5.5037	4.8676	5.7251

STD. DEVIATIONS	3.7621	2.0737	1.3295	0.8219	4.8130	3.8095
	4.6487	3.4389	2.3035	2.2464	1.4859	4.1344

AVERAGE ANNUAL TOTALS & (STD. DEVIATIONS) FOR YEARS 1 THROUGH 30

	MM		CU. METERS	PERCENT
	-----		-----	-----
PRECIPITATION	405.06	(56.787)	364.6	100.00
RUNOFF	80.237	(34.7011)	72.21	19.809
EVAPOTRANSPIRATION	242.606	(38.3029)	218.35	59.894
PERCOLATION/LEAKAGE THROUGH LAYER 1	83.12309	(17.20152)	74.811	20.52134
CHANGE IN WATER STORAGE	-0.910	(1.0080)	-0.82	-0.225

PEAK DAILY VALUES FOR YEARS 1 THROUGH 30

	(MM)	(CU. METERS)
PRECIPITATION	34.60	31.140
RUNOFF	34.798	31.3178
PERCOLATION/LEAKAGE THROUGH LAYER 1	1.770753	1.59368
SNOW WATER	125.15	112.6389
MAXIMUM VEG. SOIL WATER (VOL/VOL)		0.4314
MINIMUM VEG. SOIL WATER (VOL/VOL)		0.0330

FINAL WATER STORAGE AT END OF YEAR 30

LAYER	(CM)	(VOL/VOL)
1	22.1120	0.1474
SNOW WATER	0.095	

-1.015E-01-1.039E-01-1.062E-01-1.086E-01-1.110E-01-1.134E-01-1.158E-01-1.182E-01
-1.206E-01-1.230E-01-1.254E-01-1.278E-01-1.302E-01-1.320E-01-1.332E-01-1.344E-01
-1.356E-01-1.368E-01-1.380E-01-1.399E-01-1.423E-01-1.447E-01 0.000E+00
0.000E+00-7.501E-02-7.731E-02-7.966E-02-8.202E-02-8.438E-02-8.675E-02-8.912E-02
-9.150E-02-9.387E-02-9.626E-02-9.864E-02-1.010E-01-1.034E-01-1.058E-01-1.082E-01
-1.106E-01-1.130E-01-1.154E-01-1.178E-01-1.202E-01-1.221E-01-1.233E-01-1.245E-01
-1.257E-01-1.269E-01-1.281E-01-1.299E-01-1.324E-01-1.348E-01 0.000E+00
0.000E+00-6.501E-02-6.732E-02-6.967E-02-7.203E-02-7.439E-02-7.676E-02-7.913E-02
-8.150E-02-8.388E-02-8.627E-02-8.865E-02-9.105E-02-9.344E-02-9.584E-02-9.824E-02
-1.006E-01-1.030E-01-1.055E-01-1.079E-01-1.103E-01-1.121E-01-1.133E-01-1.145E-01
-1.157E-01-1.169E-01-1.182E-01-1.200E-01-1.224E-01-1.249E-01 0.000E+00
0.000E+00-5.501E-02-5.732E-02-5.967E-02-6.203E-02-6.439E-02-6.676E-02-6.914E-02
-7.151E-02-7.389E-02-7.627E-02-7.866E-02-8.105E-02-8.345E-02-8.585E-02-8.825E-02
-9.065E-02-9.306E-02-9.547E-02-9.789E-02-1.003E-01-1.021E-01-1.033E-01-1.045E-01
-1.058E-01-1.070E-01-1.082E-01-1.100E-01-1.125E-01-1.149E-01 0.000E+00
0.000E+00-4.501E-02-4.732E-02-4.967E-02-5.203E-02-5.440E-02-5.677E-02-5.914E-02
-6.151E-02-6.389E-02-6.628E-02-6.867E-02-7.106E-02-7.346E-02-7.585E-02-7.826E-02
-8.066E-02-8.307E-02-8.548E-02-8.790E-02-9.032E-02-9.213E-02-9.334E-02-9.455E-02
-9.577E-02-9.698E-02-9.820E-02-1.000E-01-1.025E-01-1.049E-01 0.000E+00
0.000E+00-3.501E-02-3.732E-02-3.967E-02-4.203E-02-4.440E-02-4.677E-02-4.914E-02
-5.152E-02-5.389E-02-5.628E-02-5.867E-02-6.106E-02-6.346E-02-6.586E-02-6.826E-02
-7.067E-02-7.308E-02-7.549E-02-7.791E-02-8.032E-02-8.214E-02-8.335E-02-8.456E-02
-8.578E-02-8.699E-02-8.821E-02-9.004E-02-9.250E-02-9.495E-02 0.000E+00
0.000E+00-2.501E-02-2.733E-02-2.967E-02-3.203E-02-3.440E-02-3.677E-02-3.914E-02
-4.152E-02-4.390E-02-4.628E-02-4.867E-02-5.107E-02-5.346E-02-5.586E-02-5.826E-02
-6.067E-02-6.308E-02-6.549E-02-6.791E-02-7.033E-02-7.214E-02-7.336E-02-7.457E-02
-7.579E-02-7.700E-02-7.822E-02-8.005E-02-8.250E-02-8.496E-02 0.000E+00
0.000E+00-1.501E-02-1.733E-02-1.967E-02-2.203E-02-2.440E-02-2.677E-02-2.914E-02
-3.152E-02-3.390E-02-3.628E-02-3.867E-02-4.107E-02-4.346E-02-4.586E-02-4.826E-02
-5.067E-02-5.308E-02-5.550E-02-5.791E-02-6.033E-02-6.215E-02-6.336E-02-6.457E-02
-6.579E-02-6.701E-02-6.822E-02-7.006E-02-7.251E-02-7.497E-02 0.000E+00
0.000E+00-5.003E-03-7.327E-03-9.676E-03-1.203E-02-1.440E-02-1.677E-02-1.914E-02
-2.152E-02-2.390E-02-2.628E-02-2.867E-02-3.107E-02-3.346E-02-3.586E-02-3.827E-02
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-5.579E-02-5.701E-02-5.823E-02-6.006E-02-6.251E-02-6.498E-02 0.000E+00
0.000E+00 5.000E-03 2.673E-03 3.239E-04-2.035E-03-4.401E-03-6.771E-03-9.144E-03
-1.152E-02-1.390E-02-1.628E-02-1.867E-02-2.107E-02-2.347E-02-2.586E-02-2.827E-02
-3.067E-02-3.308E-02-3.550E-02-3.792E-02-4.034E-02-4.215E-02-4.336E-02-4.458E-02
-4.579E-02-4.701E-02-4.823E-02-5.006E-02-5.252E-02-5.498E-02 0.000E+00
0.000E+00 1.500E-02 1.267E-02 1.032E-02 7.964E-03 5.598E-03 3.228E-03 8.559E-04
-1.520E-03-3.900E-03-6.285E-03-8.675E-03-1.107E-02-1.347E-02-1.587E-02-1.827E-02
-2.067E-02-2.308E-02-2.550E-02-2.792E-02-3.034E-02-3.215E-02-3.337E-02-3.458E-02
-3.579E-02-3.701E-02-3.823E-02-4.006E-02-4.252E-02-4.498E-02 0.000E+00
0.000E+00 2.500E-02 2.267E-02 2.032E-02 1.796E-02 1.560E-02 1.323E-02 1.086E-02
8.480E-03 6.100E-03 3.715E-03 1.325E-03-1.069E-03-3.467E-03-5.866E-03-8.269E-03
-1.067E-02-1.309E-02-1.550E-02-1.792E-02-2.034E-02-2.215E-02-2.337E-02-2.458E-02
-2.580E-02-2.701E-02-2.823E-02-3.007E-02-3.252E-02-3.499E-02 0.000E+00
0.000E+00 3.500E-02 3.267E-02 3.032E-02 2.796E-02 2.560E-02 2.323E-02 2.085E-02
1.848E-02 1.610E-02 1.371E-02 1.132E-02 8.930E-03 6.533E-03 4.133E-03 1.731E-03
-6.753E-04-3.086E-03-5.500E-03-7.918E-03-1.034E-02-1.215E-02-1.337E-02-1.458E-02
-1.580E-02-1.701E-02-1.823E-02-2.007E-02-2.252E-02-2.499E-02 0.000E+00
0.000E+00 4.500E-02 4.267E-02 4.032E-02 3.796E-02 3.560E-02 3.323E-02 3.085E-02
2.848E-02 2.610E-02 2.371E-02 2.132E-02 1.893E-02 1.653E-02 1.413E-02 1.173E-02
9.324E-03 6.914E-03 4.499E-03 2.082E-03-3.386E-04-2.154E-03-3.367E-03-4.581E-03
-5.797E-03-7.014E-03-8.233E-03-1.007E-02-1.252E-02-1.499E-02 0.000E+00
0.000E+00 5.500E-02 5.267E-02 5.032E-02 4.796E-02 4.560E-02 4.323E-02 4.085E-02
3.848E-02 3.610E-02 3.371E-02 3.132E-02 2.893E-02 2.653E-02 2.413E-02 2.173E-02

1.932E-02 1.691E-02 1.450E-02 1.208E-02 9.661E-03 7.845E-03 6.632E-03 5.418E-03
4.203E-03 2.985E-03 1.767E-03-6.705E-05-2.521E-03-4.996E-03 0.000E+00
0.000E+00 6.500E-02 6.267E-02 6.032E-02 5.796E-02 5.560E-02 5.323E-02 5.085E-02
4.848E-02 4.610E-02 4.371E-02 4.132E-02 3.893E-02 3.653E-02 3.413E-02 3.173E-02
2.932E-02 2.691E-02 2.450E-02 2.208E-02 1.966E-02 1.784E-02 1.663E-02 1.542E-02
1.420E-02 1.298E-02 1.177E-02 9.932E-03 7.479E-03 5.000E-03 0.000E+00
0.000E+00 7.500E-02 7.267E-02 7.032E-02 6.796E-02 6.559E-02 6.322E-02 6.085E-02
5.848E-02 5.610E-02 5.371E-02 5.132E-02 4.893E-02 4.653E-02 4.413E-02 4.173E-02
3.932E-02 3.691E-02 3.450E-02 3.208E-02 2.966E-02 2.784E-02 2.663E-02 2.542E-02
2.420E-02 2.298E-02 2.177E-02 1.993E-02 1.748E-02 1.500E-02 0.000E+00
0.000E+00 8.500E-02 8.267E-02 8.032E-02 7.796E-02 7.559E-02 7.322E-02 7.085E-02
6.848E-02 6.610E-02 6.371E-02 6.132E-02 5.893E-02 5.653E-02 5.413E-02 5.173E-02
4.932E-02 4.691E-02 4.450E-02 4.208E-02 3.966E-02 3.784E-02 3.663E-02 3.542E-02
3.420E-02 3.298E-02 3.176E-02 2.993E-02 2.748E-02 2.500E-02 0.000E+00
0.000E+00 9.500E-02 9.267E-02 9.032E-02 8.796E-02 8.559E-02 8.322E-02 8.085E-02
7.848E-02 7.610E-02 7.371E-02 7.132E-02 6.893E-02 6.653E-02 6.413E-02 6.173E-02
5.932E-02 5.691E-02 5.450E-02 5.208E-02 4.966E-02 4.784E-02 4.663E-02 4.542E-02
4.420E-02 4.298E-02 4.176E-02 3.993E-02 3.748E-02 3.500E-02 0.000E+00
0.000E+00 1.050E-01 1.027E-01 1.003E-01 9.796E-02 9.559E-02 9.322E-02 9.085E-02
8.848E-02 8.610E-02 8.371E-02 8.132E-02 7.893E-02 7.653E-02 7.413E-02 7.173E-02
6.932E-02 6.691E-02 6.450E-02 6.208E-02 5.966E-02 5.784E-02 5.663E-02 5.542E-02
5.420E-02 5.298E-02 5.176E-02 4.993E-02 4.748E-02 4.500E-02 0.000E+00
0.000E+00 1.150E-01 1.127E-01 1.103E-01 1.080E-01 1.056E-01 1.032E-01 1.009E-01
9.847E-02 9.609E-02 9.371E-02 9.132E-02 8.893E-02 8.653E-02 8.413E-02 8.173E-02
7.932E-02 7.691E-02 7.450E-02 7.208E-02 6.966E-02 6.784E-02 6.663E-02 6.541E-02
6.420E-02 6.298E-02 6.176E-02 5.993E-02 5.748E-02 5.500E-02 0.000E+00
0.000E+00 1.250E-01 1.227E-01 1.203E-01 1.180E-01 1.156E-01 1.132E-01 1.108E-01
1.085E-01 1.061E-01 1.037E-01 1.013E-01 9.892E-02 9.653E-02 9.413E-02 9.173E-02
8.932E-02 8.691E-02 8.449E-02 8.208E-02 7.966E-02 7.784E-02 7.663E-02 7.541E-02
7.420E-02 7.298E-02 7.176E-02 6.993E-02 6.748E-02 6.500E-02 0.000E+00
0.000E+00 1.400E-01 1.377E-01 1.353E-01 1.330E-01 1.306E-01 1.282E-01 1.258E-01
1.235E-01 1.211E-01 1.187E-01 1.163E-01 1.139E-01 1.115E-01 1.091E-01 1.067E-01
1.043E-01 1.019E-01 9.949E-02 9.708E-02 9.466E-02 9.284E-02 9.163E-02 9.041E-02
8.920E-02 8.798E-02 8.676E-02 8.493E-02 8.247E-02 8.000E-02 0.000E+00
0.000E+00 1.650E-01 1.627E-01 1.603E-01 1.580E-01 1.556E-01 1.532E-01 1.508E-01
1.485E-01 1.461E-01 1.437E-01 1.413E-01 1.389E-01 1.365E-01 1.341E-01 1.317E-01
1.293E-01 1.269E-01 1.245E-01 1.221E-01 1.197E-01 1.178E-01 1.166E-01 1.154E-01
1.142E-01 1.130E-01 1.118E-01 1.099E-01 1.075E-01 1.050E-01 0.000E+00
0.000E+00 2.050E-01 2.027E-01 2.003E-01 1.980E-01 1.956E-01 1.932E-01 1.908E-01
1.885E-01 1.861E-01 1.837E-01 1.813E-01 1.789E-01 1.765E-01 1.741E-01 1.717E-01
1.693E-01 1.669E-01 1.645E-01 1.621E-01 1.597E-01 1.578E-01 1.566E-01 1.554E-01
1.542E-01 1.530E-01 1.518E-01 1.499E-01 1.475E-01 1.450E-01 0.000E+00
0.000E+00 2.800E-01 2.777E-01 2.753E-01 2.729E-01 2.706E-01 2.682E-01 2.658E-01
2.635E-01 2.611E-01 2.587E-01 2.563E-01 2.539E-01 2.515E-01 2.491E-01 2.467E-01
2.443E-01 2.419E-01 2.395E-01 2.371E-01 2.346E-01 2.328E-01 2.316E-01 2.304E-01
2.292E-01 2.280E-01 2.268E-01 2.249E-01 2.225E-01 2.200E-01 0.000E+00
0.000E+00 4.050E-01 4.027E-01 4.003E-01 3.979E-01 3.956E-01 3.932E-01 3.908E-01
3.885E-01 3.861E-01 3.837E-01 3.813E-01 3.789E-01 3.765E-01 3.741E-01 3.717E-01
3.693E-01 3.669E-01 3.645E-01 3.621E-01 3.596E-01 3.578E-01 3.566E-01 3.554E-01
3.542E-01 3.530E-01 3.517E-01 3.499E-01 3.475E-01 3.450E-01 0.000E+00
0.000E+00 6.050E-01 6.027E-01 6.003E-01 5.979E-01 5.956E-01 5.932E-01 5.908E-01
5.884E-01 5.861E-01 5.837E-01 5.813E-01 5.789E-01 5.765E-01 5.741E-01 5.717E-01
5.693E-01 5.669E-01 5.645E-01 5.621E-01 5.596E-01 5.578E-01 5.566E-01 5.554E-01
5.542E-01 5.530E-01 5.517E-01 5.499E-01 5.475E-01 5.450E-01 0.000E+00
0.000E+00 8.550E-01 8.526E-01 8.503E-01 8.479E-01 8.456E-01 8.432E-01 8.408E-01
8.384E-01 8.361E-01 8.337E-01 8.313E-01 8.289E-01 8.265E-01 8.241E-01 8.217E-01
8.193E-01 8.169E-01 8.145E-01 8.120E-01 8.096E-01 8.078E-01 8.066E-01 8.054E-01

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2 21 2 2.5E-4 0 0.0
2 22 2 2.5E-4 0 0.0
2 23 2 2.5E-4 0 0.0
2 24 2 2.5E-4 0 0.0
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71 2 4 -2.97 0 0.0

72 2 4 -2.97 0 0.0
73 2 4 -2.97 0 0.0
74 2 4 -2.97 0 0.0
-999999 /
-999999 /

0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
0.100	0.100							
0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
0.050	0.030							
0.020	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
0.010	0.010							
0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
0.010	0.010							
0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
0.010	0.010							
0.010	0.010	0.020	0.030	0.050	0.100	0.150	0.250	0.250
0.250	0.250							
0.250	0.150	0.080	0.040	0.020	0.020	0.020	0.020	0.020

GRID SPACING IN HORIZONTAL OR

RADIAL DIRECTION, IN m

0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
0.500	0.500							
0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
0.500	0.500							
0.500	0.250	0.250	0.250	0.250	0.250	0.250	0.250	0.500
0.500	0.500							

0.500

TIMES AT WHICH H WILL BE WRITTEN TO FILE 08

300.0000

ROW AND COLUMN OF OBSERVATION POINTS:

65 25 66 25 67 25 68 25 69 25

MASS BALANCE COMPONENTS WRITTEN TO FILE 9

31 32 33 64 65 66 70 71 72

COORDINATE SYSTEM IS RECTANGULAR

TRANSPORT TO BE SIMULATED

CENTRAL DIFFERENCING IN SPACE USED FOR TRANSPORT EQUATION

CENTRAL DIFFERENCING IN TIME USED FOR TRANSPORT EQUATION

MATRIX EQUATIONS TO BE SOLVED BY SIP

INITIAL MOISTURE PARAMETERS

CONVERGENCE CRITERIA FOR SIP FOR FLOW = 1.000E-04 m

CONVERGENCE CRITERIA FOR SIP FOR TRANSPORT = 1.000E-05

DAMPING FACTOR, HMAX = 7.000E-01

ARITHMETIC MEAN USED FOR INTERCELL CONDUCTIVITY

NUMBER OF SOIL TEXTURAL CLASSES = 3

NUMBER OF SOIL PARAMETERS FOR EACH CLASS = 6

NUMBER OF TRANSPORT PARAMETERS FOR EACH CLASS = 7

MINIMUM PERMITTED NO. OF ITERATIONS/TIME STEP = 2

MAXIMUM PERMITTED NO. OF ITERATIONS/TIME STEP = 80

CONSTANTS FOR SOIL TEXTURAL CLASSES

	ANISOTROPY	KSAT	SPECIFIC STORAGE	POROSITY	B DENSITY
	ALPHAL	ALPHAT	DM	LAMBDA	
CLASS # 1					
	1.000D+00	0.000D+00	0.000D+00	0.000D+00	0.000D+00
0.000D+00	0.000D+00				
	0.000D+00	0.000D+00	0.000D+00	0.000D+00	0.000D+00
0.000D+00	1.000D+00				
CLASS # 2					

	1.000D+00	7.000D+00	0.000D+00	4.000D-01	-1.450D+01	4.500D-
02	2.680D+00					
	5.000D-02	5.000D-02	8.470D-05	0.000D+00	1.500D+06	3.700D-
07	1.000D+00					
	CLASS # 3					
	1.000D+00	7.000D+00	0.000D+00	4.000D-01	-1.450D+01	4.500D-
02	2.680D+00					
	6.500D-01	6.500D-02	8.470D-05	0.000D+00	1.500D+06	6.170D-
08	1.000D+00					
	TEXTURAL CLASS INDEX MAP					

TEXTURAL CLASS TO BE READ IN FOR EACH ROW

1	11111111111111111111111111111111
2	12222222222222222222222222222221
3	12222222222222222222222222222221
4	12222222222222222222222222222221
5	12222222222222222222222222222221
6	12222222222222222222222222222221
7	12222222222222222222222222222221
8	12222222222222222222222222222221
9	12222222222222222222222222222221
10	12222222222222222222222222222221
11	12222222222222222222222222222221
12	12222222222222222222222222222221
13	12222222222222222222222222222221
14	12222222222222222222222222222221
15	12222222222222222222222222222221
16	12222222222222222222222222222221
17	12222222222222222222222222222221
18	12222222222222222222222222222221
19	12222222222222222222222222222221
20	12222222222222222222222222222221
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30	12222222222222222222222222222221
31	12222222222222222222222222222221
32	12222222222222222222222222222221
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2.86-1.15E-01-1.17E-01-1.20E-01-1.22E-01-1.24E-01-1.27E-01-1.29E-01-1.31E-01-1.34E-01-1.36E-01-1.39E-01-1.41E-01-1.43E-01
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-6.01E-02-6.25E-02-6.50E-02
2.97 5.00E-03 2.67E-03 3.24E-04-2.03E-03-4.40E-03-6.77E-03-9.14E-03-1.15E-02-1.39E-02-1.63E-02-1.87E-02-2.11E-02-2.35E-02
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-5.01E-02-5.25E-02-5.50E-02
2.98 1.50E-02 1.27E-02 1.03E-02 7.96E-03 5.60E-03 3.23E-03 8.56E-04-1.52E-03-3.90E-03-6.29E-03-8.68E-03-1.11E-02-1.35E-02
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-4.01E-02-4.25E-02-4.50E-02
2.99 2.50E-02 2.27E-02 2.03E-02 1.80E-02 1.56E-02 1.32E-02 1.09E-02 8.48E-03 6.10E-03 3.72E-03 1.33E-03-1.07E-03-3.47E-03
-5.87E-03-8.27E-03-1.07E-02-1.31E-02-1.55E-02-1.79E-02-2.03E-02-2.21E-02-2.34E-02-2.46E-02-2.58E-02-2.70E-02-2.82E-02
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3.00 3.50E-02 3.27E-02 3.03E-02 2.80E-02 2.56E-02 2.32E-02 2.08E-02 1.85E-02 1.61E-02 1.37E-02 1.13E-02 8.93E-03 6.53E-03
4.13E-03 1.73E-03-6.75E-04-3.09E-03-5.50E-03-7.92E-03-1.03E-02-1.22E-02-1.34E-02-1.46E-02-1.58E-02-1.70E-02-1.82E-02
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1.41E-02 1.17E-02 9.32E-03 6.91E-03 4.50E-03 2.08E-03-3.39E-04-2.15E-03-3.37E-03-4.58E-03-5.80E-03-7.01E-03-8.23E-03
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2.41E-02 2.17E-02 1.93E-02 1.69E-02 1.45E-02 1.21E-02 9.66E-03 7.85E-03 6.63E-03 5.42E-03 4.20E-03 2.98E-03 1.77E-03
-6.71E-05-2.52E-03-5.00E-03
3.03 6.50E-02 6.27E-02 6.03E-02 5.80E-02 5.56E-02 5.32E-02 5.09E-02 4.85E-02 4.61E-02 4.37E-02 4.13E-02 3.89E-02 3.65E-02
3.41E-02 3.17E-02 2.93E-02 2.69E-02 2.45E-02 2.21E-02 1.97E-02 1.78E-02 1.66E-02 1.54E-02 1.42E-02 1.30E-02 1.18E-02
9.93E-03 7.48E-03 5.00E-03
3.04 7.50E-02 7.27E-02 7.03E-02 6.80E-02 6.56E-02 6.32E-02 6.08E-02 5.85E-02 5.61E-02 5.37E-02 5.13E-02 4.89E-02 4.65E-02
4.41E-02 4.17E-02 3.93E-02 3.69E-02 3.45E-02 3.21E-02 2.97E-02 2.78E-02 2.66E-02 2.54E-02 2.42E-02 2.30E-02 2.18E-02
1.99E-02 1.75E-02 1.50E-02
3.05 8.50E-02 8.27E-02 8.03E-02 7.80E-02 7.56E-02 7.32E-02 7.09E-02 6.85E-02 6.61E-02 6.37E-02 6.13E-02 5.89E-02 5.65E-02
5.41E-02 5.17E-02 4.93E-02 4.69E-02 4.45E-02 4.21E-02 3.97E-02 3.78E-02 3.66E-02 3.54E-02 3.42E-02 3.30E-02 3.18E-02
2.99E-02 2.75E-02 2.50E-02
3.06 9.50E-02 9.27E-02 9.03E-02 8.80E-02 8.56E-02 8.32E-02 8.08E-02 7.85E-02 7.61E-02 7.37E-02 7.13E-02 6.89E-02 6.65E-02
6.41E-02 6.17E-02 5.93E-02 5.69E-02 5.45E-02 5.21E-02 4.97E-02 4.78E-02 4.66E-02 4.54E-02 4.42E-02 4.30E-02 4.18E-02
3.99E-02 3.75E-02 3.50E-02
3.07 1.05E-01 1.03E-01 1.00E-01 9.80E-02 9.56E-02 9.32E-02 9.09E-02 8.85E-02 8.61E-02 8.37E-02 8.13E-02 7.89E-02 7.65E-02

7.41E-02 7.17E-02 6.93E-02 6.69E-02 6.45E-02 6.21E-02 5.97E-02 5.78E-
02 5.66E-02 5.54E-02 5.42E-02 5.30E-02 5.18E-02
4.99E-02 4.75E-02 4.50E-02
3.08 1.15E-01 1.13E-01 1.10E-01 1.08E-01 1.06E-01 1.03E-01 1.01E-01 9.85E-
02 9.61E-02 9.37E-02 9.13E-02 8.89E-02 8.65E-02
8.41E-02 8.17E-02 7.93E-02 7.69E-02 7.45E-02 7.21E-02 6.97E-02 6.78E-
02 6.66E-02 6.54E-02 6.42E-02 6.30E-02 6.18E-02
5.99E-02 5.75E-02 5.50E-02
3.09 1.25E-01 1.23E-01 1.20E-01 1.18E-01 1.16E-01 1.13E-01 1.11E-01 1.08E-
01 1.06E-01 1.04E-01 1.01E-01 9.89E-02 9.65E-02
9.41E-02 9.17E-02 8.93E-02 8.69E-02 8.45E-02 8.21E-02 7.97E-02 7.78E-
02 7.66E-02 7.54E-02 7.42E-02 7.30E-02 7.18E-02
6.99E-02 6.75E-02 6.50E-02
3.11 1.40E-01 1.38E-01 1.35E-01 1.33E-01 1.31E-01 1.28E-01 1.26E-01 1.23E-
01 1.21E-01 1.19E-01 1.16E-01 1.14E-01 1.11E-01
1.09E-01 1.07E-01 1.04E-01 1.02E-01 9.95E-02 9.71E-02 9.47E-02 9.28E-
02 9.16E-02 9.04E-02 8.92E-02 8.80E-02 8.68E-02
8.49E-02 8.25E-02 8.00E-02
3.13 1.65E-01 1.63E-01 1.60E-01 1.58E-01 1.56E-01 1.53E-01 1.51E-01 1.48E-
01 1.46E-01 1.44E-01 1.41E-01 1.39E-01 1.36E-01
1.34E-01 1.32E-01 1.29E-01 1.27E-01 1.24E-01 1.22E-01 1.20E-01 1.18E-
01 1.17E-01 1.15E-01 1.14E-01 1.13E-01 1.12E-01
1.10E-01 1.07E-01 1.05E-01
3.17 2.05E-01 2.03E-01 2.00E-01 1.98E-01 1.96E-01 1.93E-01 1.91E-01 1.88E-
01 1.86E-01 1.84E-01 1.81E-01 1.79E-01 1.76E-01
1.74E-01 1.72E-01 1.69E-01 1.67E-01 1.64E-01 1.62E-01 1.60E-01 1.58E-
01 1.57E-01 1.55E-01 1.54E-01 1.53E-01 1.52E-01
1.50E-01 1.47E-01 1.45E-01
3.25 2.80E-01 2.78E-01 2.75E-01 2.73E-01 2.71E-01 2.68E-01 2.66E-01 2.64E-
01 2.61E-01 2.59E-01 2.56E-01 2.54E-01 2.52E-01
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01 2.32E-01 2.30E-01 2.29E-01 2.28E-01 2.27E-01
2.25E-01 2.23E-01 2.20E-01
3.37 4.05E-01 4.03E-01 4.00E-01 3.98E-01 3.96E-01 3.93E-01 3.91E-01 3.89E-
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01 3.57E-01 3.55E-01 3.54E-01 3.53E-01 3.52E-01
3.50E-01 3.48E-01 3.45E-01
3.57 6.05E-01 6.03E-01 6.00E-01 5.98E-01 5.96E-01 5.93E-01 5.91E-01 5.88E-
01 5.86E-01 5.84E-01 5.81E-01 5.79E-01 5.77E-01
5.74E-01 5.72E-01 5.69E-01 5.67E-01 5.64E-01 5.62E-01 5.60E-01 5.58E-
01 5.57E-01 5.55E-01 5.54E-01 5.53E-01 5.52E-01
5.50E-01 5.47E-01 5.45E-01
3.82 8.55E-01 8.53E-01 8.50E-01 8.48E-01 8.46E-01 8.43E-01 8.41E-01 8.38E-
01 8.36E-01 8.34E-01 8.31E-01 8.29E-01 8.27E-01
8.24E-01 8.22E-01 8.19E-01 8.17E-01 8.14E-01 8.12E-01 8.10E-01 8.08E-
01 8.07E-01 8.05E-01 8.04E-01 8.03E-01 8.02E-01
8.00E-01 7.97E-01 7.95E-01
4.07 1.10E+00 1.10E+00 1.10E+00 1.10E+00 1.10E+00 1.09E+00 1.09E+00
1.09E+00 1.09E+00 1.08E+00 1.08E+00 1.08E+00 1.08E+00
1.07E+00 1.07E+00 1.07E+00 1.07E+00 1.06E+00 1.06E+00 1.06E+00
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1.31E+00 1.31E+00 1.30E+00 1.30E+00 1.30E+00 1.30E+00

2.55	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
2.65	0.077	0.076	0.076	0.076	0.076	0.076	0.076	0.076
0.076	0.076	0.075	0.075	0.075	0.075	0.075	0.075	0.075
	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
0.075	0.075	0.075	0.074	0.074	0.074	0.074	0.074	0.074
	0.074	0.074	0.074	0.074	0.074	0.074	0.074	0.074
2.73	0.088	0.088	0.087	0.087	0.086	0.086	0.085	0.085
0.085	0.084	0.084	0.084	0.083	0.083	0.083	0.083	0.083
	0.082	0.082	0.082	0.081	0.081	0.081	0.081	0.081
0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
	0.079	0.079	0.079	0.079	0.079	0.079	0.079	0.079
2.77	0.101	0.100	0.099	0.098	0.098	0.097	0.096	0.096
0.095	0.094	0.094	0.093	0.092	0.091	0.091	0.091	0.091
	0.091	0.090	0.090	0.089	0.088	0.088	0.088	0.088
0.087	0.087	0.086	0.086	0.086	0.086	0.086	0.086	0.086
	0.085	0.085	0.084	0.084	0.084	0.084	0.084	0.084
2.79	0.113	0.112	0.111	0.109	0.108	0.107	0.106	0.106
0.105	0.104	0.103	0.102	0.101	0.100	0.100	0.100	0.100
	0.099	0.098	0.097	0.096	0.095	0.095	0.095	0.095
0.093	0.093	0.093	0.092	0.092	0.092	0.092	0.092	0.092
	0.091	0.090	0.090	0.090	0.090	0.090	0.090	0.090
2.81	0.123	0.121	0.120	0.118	0.117	0.115	0.114	0.114
0.112	0.111	0.110	0.109	0.107	0.106	0.106	0.106	0.106
	0.105	0.104	0.103	0.102	0.101	0.101	0.101	0.101
0.098	0.098	0.098	0.097	0.097	0.096	0.096	0.096	0.096
	0.096	0.095	0.094	0.094	0.094	0.094	0.094	0.094
2.82	0.130	0.129	0.127	0.125	0.123	0.122	0.120	0.120
0.118	0.117	0.115	0.114	0.113	0.111	0.111	0.111	0.111
	0.110	0.109	0.108	0.106	0.105	0.105	0.105	0.105
0.102	0.102	0.101	0.101	0.100	0.100	0.100	0.100	0.100
	0.099	0.098	0.097	0.097	0.097	0.097	0.097	0.097
2.83	0.139	0.137	0.135	0.133	0.131	0.129	0.127	0.127
0.125	0.124	0.122	0.120	0.119	0.117	0.117	0.117	0.117
	0.116	0.114	0.113	0.112	0.110	0.110	0.110	0.110
0.107	0.106	0.106	0.105	0.105	0.104	0.104	0.104	0.104
	0.103	0.102	0.101	0.101	0.101	0.101	0.101	0.101
2.84	0.149	0.147	0.145	0.142	0.140	0.138	0.135	0.135
0.133	0.131	0.129	0.128	0.126	0.124	0.124	0.124	0.124
	0.122	0.121	0.119	0.117	0.116	0.116	0.116	0.116
0.112	0.111	0.111	0.110	0.109	0.109	0.109	0.109	0.109
	0.108	0.107	0.106	0.106	0.106	0.106	0.106	0.106
2.85	0.162	0.159	0.156	0.153	0.150	0.148	0.145	0.145
0.143	0.140	0.138	0.136	0.134	0.132	0.132	0.132	0.132
	0.130	0.128	0.126	0.124	0.122	0.122	0.122	0.122
0.118	0.117	0.116	0.116	0.115	0.114	0.114	0.114	0.114
	0.113	0.112	0.111	0.111	0.111	0.111	0.111	0.111
2.86	0.175	0.172	0.169	0.166	0.162	0.159	0.156	0.156
0.153	0.151	0.148	0.146	0.143	0.141	0.141	0.141	0.141
	0.138	0.136	0.134	0.132	0.130	0.130	0.130	0.130
0.125	0.124	0.123	0.122	0.121	0.121	0.121	0.121	0.121
	0.119	0.118	0.116	0.116	0.116	0.116	0.116	0.116
2.87	0.192	0.188	0.184	0.180	0.177	0.173	0.169	0.169
0.166	0.163	0.160	0.157	0.154	0.151	0.151	0.151	0.151

		0.149	0.146	0.143	0.141	0.139	0.137	0.134
0.133	0.132	0.131	0.130	0.129	0.128			
		0.126	0.125	0.123				
	2.88	0.211	0.206	0.202	0.197	0.193	0.189	0.185
0.181	0.177	0.174	0.170	0.167	0.164			
		0.160	0.157	0.155	0.152	0.149	0.146	0.144
0.142	0.141	0.140	0.139	0.137	0.136			
		0.135	0.132	0.130				
	2.88	0.233	0.228	0.223	0.217	0.212	0.208	0.203
0.198	0.194	0.190	0.186	0.182	0.178			
		0.174	0.171	0.167	0.164	0.161	0.158	0.155
0.153	0.151	0.150	0.149	0.147	0.146			
		0.144	0.142	0.139				
	2.89	0.258	0.252	0.246	0.240	0.235	0.229	0.224
0.218	0.213	0.209	0.204	0.199	0.195			
		0.191	0.186	0.182	0.179	0.175	0.171	0.168
0.165	0.164	0.162	0.160	0.159	0.157			
		0.155	0.152	0.150				
	2.90	0.286	0.280	0.273	0.266	0.260	0.254	0.248
0.242	0.236	0.230	0.225	0.219	0.214			
		0.209	0.205	0.200	0.196	0.191	0.187	0.183
0.180	0.178	0.176	0.174	0.173	0.171			
		0.168	0.165	0.162				
	2.91	0.315	0.308	0.302	0.295	0.288	0.281	0.274
0.268	0.261	0.255	0.249	0.243	0.237			
		0.231	0.226	0.220	0.215	0.210	0.205	0.201
0.197	0.195	0.193	0.191	0.188	0.186			
		0.183	0.179	0.176				
	2.92	0.343	0.337	0.331	0.324	0.317	0.310	0.303
0.296	0.289	0.282	0.276	0.269	0.263			
		0.256	0.250	0.244	0.238	0.232	0.227	0.221
0.217	0.215	0.212	0.210	0.207	0.205			
		0.201	0.196	0.192				
	2.93	0.368	0.363	0.357	0.351	0.345	0.339	0.332
0.325	0.318	0.312	0.305	0.298	0.291			
		0.284	0.277	0.270	0.264	0.257	0.251	0.245
0.240	0.237	0.234	0.231	0.229	0.226			
		0.222	0.216	0.211				
	2.94	0.386	0.383	0.379	0.374	0.369	0.364	0.359
0.353	0.346	0.340	0.333	0.327	0.320			
		0.313	0.306	0.299	0.292	0.285	0.278	0.271
0.266	0.263	0.260	0.256	0.253	0.250			
		0.245	0.239	0.233				
	2.95	0.396	0.395	0.392	0.390	0.387	0.383	0.380
0.375	0.370	0.365	0.360	0.354	0.348			
		0.341	0.335	0.328	0.321	0.314	0.307	0.300
0.294	0.291	0.287	0.284	0.280	0.277			
		0.272	0.265	0.258				
	2.96	0.400	0.399	0.399	0.398	0.397	0.395	0.393
0.391	0.388	0.384	0.380	0.376	0.371			
		0.366	0.361	0.355	0.349	0.342	0.336	0.329
0.323	0.320	0.316	0.313	0.309	0.306			
		0.300	0.293	0.286				
	2.97	0.400	0.400	0.400	0.400	0.400	0.400	0.399
0.398	0.397	0.395	0.393	0.391	0.388			
		0.385	0.381	0.377	0.372	0.367	0.361	0.356
0.351	0.348	0.345	0.341	0.338	0.335			

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	10	TIME =	0.1700E+01	NIT =	2	NIT1 =	22
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	11	TIME =	0.2565E+01	NIT =	2	NIT1 =	22
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	12	TIME =	0.3565E+01	NIT =	2	NIT1 =	20
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	13	TIME =	0.4565E+01	NIT =	2	NIT1 =	17
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	14	TIME =	0.5565E+01	NIT =	2	NIT1 =	16
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	15	TIME =	0.6565E+01	NIT =	2	NIT1 =	14
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	16	TIME =	0.7565E+01	NIT =	2	NIT1 =	14
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	17	TIME =	0.8565E+01	NIT =	2	NIT1 =	13
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	18	TIME =	0.9565E+01	NIT =	2	NIT1 =	12
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	19	TIME =	0.1056E+02	NIT =	2	NIT1 =	12
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	20	TIME =	0.1156E+02	NIT =	2	NIT1 =	12
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	21	TIME =	0.1256E+02	NIT =	2	NIT1 =	11		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	22	TIME =	0.1356E+02	NIT =	2	NIT1 =	11		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	23	TIME =	0.1456E+02	NIT =	2	NIT1 =	11		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	24	TIME =	0.1556E+02	NIT =	2	NIT1 =	11		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	25	TIME =	0.1656E+02	NIT =	2	NIT1 =	10		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	26	TIME =	0.1756E+02	NIT =	2	NIT1 =	10		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	27	TIME =	0.1856E+02	NIT =	2	NIT1 =	10		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	28	TIME =	0.1956E+02	NIT =	2	NIT1 =	10		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	29	TIME =	0.2056E+02	NIT =	2	NIT1 =	10		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	30	TIME =	0.2156E+02	NIT =	2	NIT1 =	10		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	31	TIME =	0.2256E+02	NIT =	2	NIT1 =	10		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	32	TIME =	0.2356E+02	NIT =	2	NIT1 =	10		

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	44	TIME =	0.3556E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	45	TIME =	0.3656E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	46	TIME =	0.3756E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	47	TIME =	0.3856E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	48	TIME =	0.3956E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	49	TIME =	0.4056E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	50	TIME =	0.4156E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	51	TIME =	0.4256E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	52	TIME =	0.4356E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	53	TIME =	0.4456E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	54	TIME =	0.4556E+02	NIT =	2	NIT1 =	9
MAXIMUM CELL PECLLET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	55	TIME =	0.4656E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	56	TIME =	0.4756E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	57	TIME =	0.4856E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	58	TIME =	0.4956E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	59	TIME =	0.5056E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	60	TIME =	0.5156E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	61	TIME =	0.5256E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	62	TIME =	0.5356E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	63	TIME =	0.5456E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	64	TIME =	0.5556E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	65	TIME =	0.5656E+02	NIT =	2	NIT1 =	9		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	66	TIME =	0.5756E+02	NIT =	2	NIT1 =	9		

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	78	TIME =	0.6956E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	79	TIME =	0.7056E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	80	TIME =	0.7156E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	81	TIME =	0.7256E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	82	TIME =	0.7356E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	83	TIME =	0.7456E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	84	TIME =	0.7556E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	85	TIME =	0.7656E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	86	TIME =	0.7756E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	87	TIME =	0.7856E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	88	TIME =	0.7956E+02	NIT =	2	NIT1 =	8
MAXIMUM CELL PECKET NUMBER	--			HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	89	TIME =	0.8056E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	90	TIME =	0.8156E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	91	TIME =	0.8256E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	92	TIME =	0.8356E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	93	TIME =	0.8456E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	94	TIME =	0.8556E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	95	TIME =	0.8656E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	96	TIME =	0.8756E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	97	TIME =	0.8856E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	98	TIME =	0.8956E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	99	TIME =	0.9056E+02	NIT =	2	NIT1 =	8		
MAXIMUM CELL PECLLET NUMBER		--		HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	100	TIME =	0.9156E+02	NIT =	2	NIT1 =	8		

COLUMN	0	MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
				VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	101	TIME =	0.9256E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	102	TIME =	0.9356E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	103	TIME =	0.9456E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	104	TIME =	0.9556E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	105	TIME =	0.9656E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	106	TIME =	0.9756E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	107	TIME =	0.9856E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	108	TIME =	0.9956E+02	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	109	TIME =	0.1006E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	110	TIME =	0.1016E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	111	TIME =	0.1026E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0						

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	112	TIME =	0.1036E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	113	TIME =	0.1046E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	114	TIME =	0.1056E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	115	TIME =	0.1066E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	116	TIME =	0.1076E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	117	TIME =	0.1086E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	118	TIME =	0.1096E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	119	TIME =	0.1106E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	120	TIME =	0.1116E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	121	TIME =	0.1126E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	122	TIME =	0.1136E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	123	TIME =	0.1146E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	124	TIME =	0.1156E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	125	TIME =	0.1166E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	126	TIME =	0.1176E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	127	TIME =	0.1186E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	128	TIME =	0.1196E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	129	TIME =	0.1206E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	130	TIME =	0.1216E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	131	TIME =	0.1226E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	132	TIME =	0.1236E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	133	TIME =	0.1246E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	134	TIME =	0.1256E+03	NIT =	2	NIT1 =	8		

COLUMN	0	MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
				VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 135	TIME = 0.1266E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 136	TIME = 0.1276E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 137	TIME = 0.1286E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 138	TIME = 0.1296E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 139	TIME = 0.1306E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 140	TIME = 0.1316E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 141	TIME = 0.1326E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 142	TIME = 0.1336E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 143	TIME = 0.1346E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 144	TIME = 0.1356E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP 145	TIME = 0.1366E+03	NIT = 2	NIT1 = 8		
		MAXIMUM CELL PécLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0						

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	146	TIME =	0.1376E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	147	TIME =	0.1386E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	148	TIME =	0.1396E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	149	TIME =	0.1406E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	150	TIME =	0.1416E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	151	TIME =	0.1426E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	152	TIME =	0.1436E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	153	TIME =	0.1446E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	154	TIME =	0.1456E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	155	TIME =	0.1466E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	156	TIME =	0.1476E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	157	TIME =	0.1486E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	158	TIME =	0.1496E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	159	TIME =	0.1506E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	160	TIME =	0.1516E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	161	TIME =	0.1526E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	162	TIME =	0.1536E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	163	TIME =	0.1546E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	164	TIME =	0.1556E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	165	TIME =	0.1566E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	166	TIME =	0.1576E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	167	TIME =	0.1586E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	168	TIME =	0.1596E+03	NIT =	2	NIT1 =	8		

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	180	TIME =	0.1716E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	181	TIME =	0.1726E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	182	TIME =	0.1736E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	183	TIME =	0.1746E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	184	TIME =	0.1756E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	185	TIME =	0.1766E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	186	TIME =	0.1776E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	187	TIME =	0.1786E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	188	TIME =	0.1796E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	189	TIME =	0.1806E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	190	TIME =	0.1816E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	191	TIME =	0.1826E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	192	TIME =	0.1836E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	193	TIME =	0.1846E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	194	TIME =	0.1856E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	195	TIME =	0.1866E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	196	TIME =	0.1876E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	197	TIME =	0.1886E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	198	TIME =	0.1896E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	199	TIME =	0.1906E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	200	TIME =	0.1916E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	201	TIME =	0.1926E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	202	TIME =	0.1936E+03	NIT =	2	NIT1 =	8		

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	214	TIME =	0.2056E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	215	TIME =	0.2066E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	216	TIME =	0.2076E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	217	TIME =	0.2086E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	218	TIME =	0.2096E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	219	TIME =	0.2106E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	220	TIME =	0.2116E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	221	TIME =	0.2126E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	222	TIME =	0.2136E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	223	TIME =	0.2146E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	224	TIME =	0.2156E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	225	TIME =	0.2166E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	226	TIME =	0.2176E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	227	TIME =	0.2186E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	228	TIME =	0.2196E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	229	TIME =	0.2206E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	230	TIME =	0.2216E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	231	TIME =	0.2226E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	232	TIME =	0.2236E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	233	TIME =	0.2246E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	234	TIME =	0.2256E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	235	TIME =	0.2266E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	236	TIME =	0.2276E+03	NIT =	2	NIT1 =	8		

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	248	TIME =	0.2396E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	249	TIME =	0.2406E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	250	TIME =	0.2416E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	251	TIME =	0.2426E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	252	TIME =	0.2436E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	253	TIME =	0.2446E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	254	TIME =	0.2456E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	255	TIME =	0.2466E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	256	TIME =	0.2476E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	257	TIME =	0.2486E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	258	TIME =	0.2496E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECKET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	259	TIME =	0.2506E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	260	TIME =	0.2516E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	261	TIME =	0.2526E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	262	TIME =	0.2536E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	263	TIME =	0.2546E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	264	TIME =	0.2556E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	265	TIME =	0.2566E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	266	TIME =	0.2576E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	267	TIME =	0.2586E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	268	TIME =	0.2596E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	269	TIME =	0.2606E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	270	TIME =	0.2616E+03	NIT =	2	NIT1 =	8		

COLUMN	0	MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
				VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	271	TIME =	0.2626E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	272	TIME =	0.2636E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	273	TIME =	0.2646E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	274	TIME =	0.2656E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	275	TIME =	0.2666E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	276	TIME =	0.2676E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	277	TIME =	0.2686E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	278	TIME =	0.2696E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	279	TIME =	0.2706E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	280	TIME =	0.2716E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
COLUMN	0	TIME STEP	281	TIME =	0.2726E+03	NIT =	2
				NIT1 =	8		
		MAXIMUM CELL PECLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0						

COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	282	TIME =	0.2736E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	283	TIME =	0.2746E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	284	TIME =	0.2756E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	285	TIME =	0.2766E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	286	TIME =	0.2776E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	287	TIME =	0.2786E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	288	TIME =	0.2796E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	289	TIME =	0.2806E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	290	TIME =	0.2816E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	291	TIME =	0.2826E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0
TIME STEP	292	TIME =	0.2836E+03	NIT =	2	NIT1 =	8
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL	0.00000E+00	ROW	0
COLUMN	0			VERTICAL	0.00000E+00	ROW	0

TIME STEP	293	TIME =	0.2846E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	294	TIME =	0.2856E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	295	TIME =	0.2866E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	296	TIME =	0.2876E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	297	TIME =	0.2886E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	298	TIME =	0.2896E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	299	TIME =	0.2906E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	300	TIME =	0.2916E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	301	TIME =	0.2926E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	302	TIME =	0.2936E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	303	TIME =	0.2946E+03	NIT =	2	NIT1 =	8		
		MAXIMUM CELL PECLLET NUMBER	--	HORIZONTAL		0.00000E+00		ROW	0
COLUMN	0								
				VERTICAL		0.00000E+00		ROW	0
COLUMN	0								
TIME STEP	304	TIME =	0.2956E+03	NIT =	2	NIT1 =	8		

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-2.16E-01-2.18E-01-2.20E-01
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-1.79E-01-1.81E-01-1.84E-01
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1.87E+00 1.87E+00 1.87E+00 1.87E+00 1.87E+00 1.87E+00

2.77	0.101	0.100	0.099	0.098	0.098	0.097	0.096
0.095	0.094	0.094	0.093	0.092	0.091		
	0.091	0.090	0.090	0.089	0.088	0.088	0.087
0.087	0.087	0.086	0.086	0.086	0.086		
	0.085	0.085	0.084				
2.79	0.113	0.112	0.111	0.109	0.108	0.107	0.106
0.105	0.104	0.103	0.102	0.101	0.100		
	0.099	0.098	0.097	0.096	0.095	0.095	0.094
0.093	0.093	0.093	0.092	0.092	0.092		
	0.091	0.090	0.090				
2.81	0.123	0.121	0.120	0.118	0.117	0.115	0.114
0.112	0.111	0.110	0.109	0.107	0.106		
	0.105	0.104	0.103	0.102	0.101	0.100	0.099
0.098	0.098	0.098	0.097	0.097	0.096		
	0.096	0.095	0.094				
2.82	0.130	0.129	0.127	0.125	0.123	0.122	0.120
0.118	0.117	0.115	0.114	0.113	0.111		
	0.110	0.109	0.108	0.106	0.105	0.104	0.103
0.102	0.102	0.101	0.101	0.100	0.100		
	0.099	0.098	0.097				
2.83	0.139	0.137	0.135	0.133	0.131	0.129	0.127
0.125	0.124	0.122	0.120	0.119	0.117		
	0.116	0.114	0.113	0.112	0.110	0.109	0.108
0.107	0.106	0.106	0.105	0.105	0.104		
	0.103	0.102	0.101				
2.84	0.150	0.147	0.145	0.142	0.140	0.138	0.135
0.133	0.131	0.129	0.128	0.126	0.124		
	0.122	0.121	0.119	0.117	0.116	0.114	0.113
0.112	0.111	0.111	0.110	0.109	0.109		
	0.108	0.107	0.106				
2.85	0.162	0.159	0.156	0.153	0.150	0.148	0.145
0.143	0.140	0.138	0.136	0.134	0.132		
	0.130	0.128	0.126	0.124	0.122	0.121	0.119
0.118	0.117	0.116	0.116	0.115	0.114		
	0.113	0.112	0.111				
2.86	0.176	0.172	0.169	0.165	0.162	0.159	0.156
0.154	0.151	0.148	0.146	0.143	0.141		
	0.138	0.136	0.134	0.132	0.130	0.128	0.126
0.125	0.124	0.123	0.122	0.121	0.121		
	0.119	0.118	0.116				
2.87	0.192	0.188	0.184	0.180	0.176	0.173	0.170
0.166	0.163	0.160	0.157	0.154	0.151		
	0.149	0.146	0.144	0.141	0.139	0.137	0.134
0.133	0.132	0.131	0.130	0.129	0.128		
	0.126	0.125	0.123				
2.88	0.211	0.206	0.202	0.197	0.193	0.189	0.185
0.181	0.177	0.174	0.170	0.167	0.164		
	0.160	0.157	0.155	0.152	0.149	0.146	0.144
0.142	0.141	0.140	0.139	0.137	0.136		
	0.135	0.133	0.130				
2.88	0.233	0.228	0.223	0.217	0.212	0.208	0.203
0.198	0.194	0.190	0.186	0.182	0.178		
	0.174	0.171	0.167	0.164	0.161	0.158	0.155
0.153	0.151	0.150	0.149	0.147	0.146		
	0.144	0.142	0.139				
2.89	0.258	0.252	0.246	0.240	0.235	0.229	0.224
0.219	0.213	0.209	0.204	0.199	0.195		

		0.190	0.186	0.182	0.179	0.175	0.171	0.168
0.165	0.164	0.162	0.161	0.159	0.157			
		0.155	0.152	0.150				
2.90	0.286	0.280	0.273	0.266	0.260	0.254	0.248	
0.242	0.236	0.230	0.225	0.219	0.214			
		0.209	0.205	0.200	0.195	0.191	0.187	0.183
0.180	0.178	0.176	0.174	0.173	0.171			
		0.168	0.165	0.162				
2.91	0.315	0.308	0.302	0.295	0.288	0.281	0.274	
0.268	0.261	0.255	0.249	0.243	0.237			
		0.231	0.226	0.220	0.215	0.210	0.205	0.201
0.197	0.195	0.193	0.191	0.188	0.186			
		0.183	0.179	0.176				
2.92	0.343	0.337	0.331	0.324	0.317	0.310	0.303	
0.296	0.289	0.282	0.276	0.269	0.263			
		0.256	0.250	0.244	0.238	0.232	0.227	0.221
0.217	0.215	0.212	0.210	0.207	0.205			
		0.201	0.196	0.192				
2.93	0.368	0.363	0.357	0.351	0.345	0.339	0.332	
0.325	0.318	0.312	0.305	0.298	0.291			
		0.284	0.277	0.270	0.264	0.257	0.251	0.245
0.240	0.237	0.234	0.231	0.229	0.226			
		0.222	0.216	0.211				
2.94	0.386	0.383	0.379	0.374	0.369	0.364	0.359	
0.353	0.346	0.340	0.333	0.327	0.320			
		0.313	0.306	0.299	0.292	0.285	0.278	0.271
0.266	0.263	0.260	0.256	0.253	0.250			
		0.245	0.239	0.233				
2.95	0.396	0.395	0.392	0.390	0.387	0.383	0.380	
0.375	0.370	0.365	0.360	0.354	0.348			
		0.341	0.335	0.328	0.321	0.314	0.307	0.300
0.294	0.291	0.287	0.284	0.280	0.277			
		0.272	0.265	0.258				
2.96	0.400	0.399	0.399	0.398	0.397	0.395	0.393	
0.391	0.388	0.384	0.380	0.376	0.371			
		0.366	0.361	0.355	0.349	0.342	0.336	0.329
0.323	0.320	0.316	0.313	0.309	0.306			
		0.300	0.293	0.286				
2.97	0.400	0.400	0.400	0.400	0.400	0.400	0.399	
0.398	0.397	0.395	0.393	0.391	0.388			
		0.385	0.381	0.377	0.372	0.367	0.361	0.356
0.351	0.348	0.345	0.341	0.338	0.335			
		0.329	0.322	0.315				
2.98	0.400	0.400	0.400	0.400	0.400	0.400	0.400	
0.400	0.400	0.400	0.399	0.398	0.397			
		0.396	0.394	0.391	0.389	0.385	0.382	0.377
0.374	0.371	0.369	0.366	0.364	0.361			
		0.356	0.350	0.344				
2.99	0.400	0.400	0.400	0.400	0.400	0.400	0.400	
0.400	0.400	0.400	0.400	0.400	0.400			
		0.400	0.399	0.399	0.397	0.396	0.394	0.392
0.390	0.388	0.387	0.385	0.383	0.381			
		0.378	0.373	0.368				
3.00	0.400	0.400	0.400	0.400	0.400	0.400	0.400	
0.400	0.400	0.400	0.400	0.400	0.400			
		0.400	0.400	0.400	0.400	0.400	0.399	0.399
0.398	0.397	0.397	0.396	0.395	0.394			

	0.400	0.400	0.400	0.400	0.400	0.400	0.400
0.400	0.400	0.400	0.400	0.400	0.400		
	0.400	0.400	0.400				
5.00	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.400		
	0.400	0.400	0.400	0.400	0.400	0.400	0.400
0.400	0.400	0.400	0.400	0.400	0.400		
	0.400	0.400	0.400				
5.02	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.400
0.400	0.400	0.400	0.400	0.400	0.400		
	0.400	0.400	0.400				

X-VELOCITY

Z, IN	X OR R DISTANCE, IN m							
m	0.25	0.75	1.25	1.75	2.25	2.75	3.25	
3.75	4.25	4.75	5.25	5.75	6.25			
	6.75	7.25	7.75	8.25	8.75	9.25	9.75	
10.13	10.38	10.63	10.88	11.13	11.38			
	11.75	12.25	12.75					
0.05	0.00E+00	0.00E+00	-3.78E-19	0.00E+00	-3.78E-19	-1.13E-18	1.13E-18	-1.13E-18
18	3.78E-19	7.56E-19	-3.78E-19	-3.78E-19	1.13E-18			
			-3.78E-19	-1.51E-18	1.51E-18	3.78E-19	-1.13E-18	3.40E-18
0.00E+00	2.27E-18	7.56E-19	-2.27E-18	1.51E-18	0.00E+00			
			-1.01E-18	2.27E-18	-1.51E-18			
0.15	0.00E+00	-1.51E-18	1.51E-18	0.00E+00	-1.89E-18	7.56E-19	0.00E+00	-3.78E-19
19	1.51E-18	-1.13E-18	-3.78E-19	3.02E-18	-1.51E-18			
			-1.13E-18	0.00E+00	7.56E-19	3.78E-19	-3.78E-19	3.78E-19
19	-2.27E-18	4.53E-18	-7.56E-19	-3.78E-18	-7.56E-19			
			3.02E-18	0.00E+00	0.00E+00			
0.25	0.00E+00	-7.56E-19	7.56E-19	0.00E+00	1.51E-18	-7.56E-19	7.56E-19	7.56E-19
19	0.00E+00	-3.78E-18	3.02E-18	-7.56E-19	-7.56E-19			
			2.27E-18	-1.51E-18	7.56E-19	-1.51E-18	1.51E-18	0.00E+00
18	-3.02E-18	0.00E+00	-3.02E-18	1.51E-18	-1.51E-18			
			2.01E-18	-1.51E-18	0.00E+00			
0.35	0.00E+00	0.00E+00	-1.51E-18	1.51E-18	-1.51E-18	-1.51E-18	7.56E-19	
0.00E+00	-7.56E-19	0.00E+00	3.02E-18	-7.56E-19	0.00E+00			
			-7.56E-19	0.00E+00	-1.51E-18	2.27E-18	0.00E+00	-1.51E-18
18	-3.02E-18	-1.51E-18	-3.02E-18	4.53E-18	3.02E-18			
			-3.02E-18	2.27E-18	-7.56E-19			
0.45	0.00E+00	3.02E-18	-5.29E-18	3.78E-18	-4.53E-18	2.27E-18	7.56E-19	-3.02E-18
18	-7.56E-19	4.53E-18	-7.56E-19	7.56E-19	-7.56E-19			
			-3.02E-18	0.00E+00	1.51E-18	-2.27E-18	0.00E+00	-1.51E-18
18	-3.02E-18	1.51E-18	0.00E+00	-1.51E-18	1.51E-18			
			2.01E-18	0.00E+00	-7.56E-19			
0.55	0.00E+00	4.53E-18	-3.78E-18	2.27E-18	-4.53E-18	2.27E-18	3.02E-18	-6.04E-18
18	0.00E+00	5.29E-18	-7.56E-19	2.27E-18	-1.51E-18			
			-4.53E-18	7.56E-19	0.00E+00	7.56E-19	-2.27E-18	-7.56E-19
18	-1.51E-18	-3.02E-18	4.53E-18	-1.51E-18	0.00E+00			
			3.02E-18	1.51E-18	-2.27E-18			
0.65	0.00E+00	6.04E-18	-3.02E-18	7.56E-19	-3.78E-18	2.27E-18	3.02E-18	-4.53E-18
18	-7.56E-19	5.29E-18	1.51E-18	-1.51E-18	0.00E+00			
			-7.56E-18	6.80E-18	-2.27E-18	-3.78E-18	0.00E+00	3.02E-18
18	0.00E+00	-3.02E-18	7.56E-18	-6.04E-18	3.02E-18			
			0.00E+00	3.78E-18	-2.27E-18			

0.75 0.00E+00 3.02E-18 1.51E-18 0.00E+00-4.53E-18 0.00E+00 3.02E-18-1.51E-
18-1.51E-18 3.02E-18 3.02E-18-3.02E-18 0.00E+00
-3.02E-18 3.02E-18 0.00E+00-3.02E-18 0.00E+00 1.51E-18 1.51E-18-2.01E-
18 0.00E+00-3.02E-18-3.02E-18 3.02E-18 0.00E+00
0.00E+00 4.53E-18-3.02E-18
0.85 0.00E+00-1.51E-18 3.02E-18-4.53E-18-1.51E-18 0.00E+00 1.51E-18 1.51E-
18-3.02E-18 1.51E-18 0.00E+00 0.00E+00 0.00E+00
1.51E-18-1.51E-18 0.00E+00 0.00E+00-1.51E-18 4.53E-18-1.51E-18-6.04E-
18 3.02E-18-3.02E-18 3.02E-18 6.04E-18-9.07E-18
0.00E+00 3.02E-18 3.02E-18
0.95 0.00E+00-3.02E-18 3.02E-18-3.02E-18-3.02E-18 0.00E+00 4.53E-18 1.51E-
18-6.04E-18 3.02E-18 0.00E+00 0.00E+00 0.00E+00
3.02E-18-3.02E-18 0.00E+00 0.00E+00-3.02E-18 1.51E-18 4.53E-18-2.01E-
18-3.02E-18 0.00E+00 6.04E-18 0.00E+00-1.21E-17
6.04E-18 0.00E+00 1.51E-18
1.05 0.00E+00-1.51E-18 1.51E-18 0.00E+00-3.02E-18 0.00E+00 6.04E-18-3.02E-
18-1.51E-18 1.51E-18 1.51E-18-4.53E-18 3.02E-18
0.00E+00-1.51E-18 0.00E+00 3.02E-18-3.02E-18 0.00E+00 1.51E-18
0.00E+00 3.02E-18-3.02E-18 0.00E+00 0.00E+00-3.02E-18
2.01E-18 1.51E-18-1.51E-18
1.15 0.00E+00-1.51E-18 1.51E-18-1.51E-18 1.51E-18 0.00E+00 4.53E-18-6.04E-
18 3.02E-18 0.00E+00 3.02E-18-4.53E-18-1.51E-18
1.51E-18 3.02E-18-4.53E-18 4.53E-18 0.00E+00-4.53E-18 1.51E-18
0.00E+00 6.04E-18-3.02E-18-6.04E-18 3.02E-18 3.02E-18
0.00E+00 0.00E+00-1.51E-18
1.25 0.00E+00-4.53E-18 1.51E-18 0.00E+00-1.51E-18 0.00E+00 6.04E-18-4.53E-
18 1.51E-18 0.00E+00 3.02E-18-4.53E-18-1.51E-18
1.51E-18 3.02E-18-4.53E-18 4.53E-18 0.00E+00-4.53E-18 4.53E-18-4.03E-
18 3.02E-18 0.00E+00-6.04E-18 6.04E-18 0.00E+00
0.00E+00-1.51E-18 3.02E-18
1.35 0.00E+00-3.02E-18 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.02E-18-1.51E-
18-3.02E-18 3.02E-18 3.02E-18-3.02E-18 0.00E+00
1.51E-18 1.51E-18-4.53E-18 3.02E-18 1.51E-18-4.53E-18 1.51E-18-2.01E-
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1.51E-18 1.51E-18-3.02E-18 3.02E-18 0.00E+00-3.02E-18 0.00E+00 4.03E-
18-3.02E-18-3.02E-18 3.02E-18-3.02E-18 0.00E+00
0.00E+00-3.02E-18 6.04E-18
1.55 0.00E+00-1.51E-18-4.53E-18 6.04E-18 0.00E+00 0.00E+00 0.00E+00-3.02E-
18 1.51E-18-3.02E-18 3.02E-18-3.02E-18 1.51E-18
1.51E-18 1.51E-18-6.04E-18 4.53E-18 1.51E-18-6.04E-18 1.51E-18 4.03E-
18 0.00E+00-3.02E-18 3.02E-18-3.02E-18 3.02E-18
0.00E+00-3.02E-18 4.53E-18
1.65 0.00E+00-1.51E-18-1.51E-18 4.53E-18 0.00E+00 0.00E+00-3.02E-18-1.51E-
18 1.51E-18 0.00E+00 1.51E-18-3.02E-18 1.51E-18
0.00E+00 1.51E-18-4.53E-18 7.56E-18-1.51E-18-6.04E-18 3.02E-18 2.01E-
18 0.00E+00-3.02E-18 0.00E+00-3.02E-18 6.04E-18
0.00E+00-1.51E-18 3.02E-18
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0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.02E-18-6.04E-18
3.02E-18 3.02E-18-6.04E-18 3.02E-18 3.02E-18-6.04E-18 3.02E-18
0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
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1.85 0.00E+00-3.02E-18 0.00E+00 3.02E-18 0.00E+00 0.00E+00-3.02E-18
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9.07E-18 0.00E+00-9.07E-18 9.07E-18 0.00E+00-9.07E-18 9.07E-18
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1.21E-17 0.00E+00-1.21E-17 1.21E-17 0.00E+00-1.21E-17 9.07E-18 4.03E-
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2.05 0.00E+00 0.00E+00-9.07E-18 9.07E-18-6.04E-18 3.02E-18 0.00E+00
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1.51E-17-3.02E-18-9.07E-18 9.07E-18 6.04E-18-1.51E-17 6.04E-18 4.03E-
18 6.04E-18-6.04E-18 0.00E+00 1.21E-17 0.00E+00
4.03E-18-1.21E-17 1.51E-17
2.15 0.00E+00-2.12E-17-2.42E-17-9.07E-18-2.42E-17-1.21E-17-1.21E-17-9.07E-
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-1.47E-15-1.33E-15-1.21E-15-1.05E-15-9.55E-16-8.61E-16-7.53E-16-6.53E-
16-6.11E-16-5.80E-16-5.44E-16-5.02E-16-4.78E-16
-4.35E-16-4.05E-16-2.93E-16
2.35 0.00E+00-8.70E-13-9.25E-13-8.90E-13-8.44E-13-7.92E-13-7.39E-13-6.86E-
13-6.33E-13-5.82E-13-5.33E-13-4.86E-13-4.41E-13
-3.99E-13-3.60E-13-3.24E-13-2.91E-13-2.60E-13-2.32E-13-2.07E-13-1.85E-
13-1.73E-13-1.63E-13-1.53E-13-1.44E-13-1.34E-13
-1.25E-13-1.11E-13-8.91E-14
2.45 0.00E+00-2.38E-10-2.49E-10-2.39E-10-2.26E-10-2.13E-10-1.98E-10-1.84E-
10-1.70E-10-1.56E-10-1.43E-10-1.30E-10-1.18E-10
-1.07E-10-9.66E-11-8.70E-11-7.81E-11-6.99E-11-6.24E-11-5.56E-11-4.98E-
11-4.65E-11-4.37E-11-4.11E-11-3.86E-11-3.61E-11
-3.36E-11-2.98E-11-2.43E-11
2.55 0.00E+00-6.21E-08-6.41E-08-6.17E-08-5.87E-08-5.53E-08-5.18E-08-4.82E-
08-4.46E-08-4.11E-08-3.77E-08-3.44E-08-3.13E-08
-2.84E-08-2.57E-08-2.31E-08-2.08E-08-1.86E-08-1.67E-08-1.48E-08-1.33E-
08-1.24E-08-1.17E-08-1.10E-08-1.03E-08-9.69E-09
-9.00E-09-8.00E-09-6.63E-09
2.65 0.00E+00 7.98E-06 7.91E-06 7.49E-06 7.07E-06 6.67E-06 6.28E-06 5.92E-
06 5.58E-06 5.26E-06 4.96E-06 4.67E-06 4.40E-06
4.14E-06 3.90E-06 3.67E-06 3.46E-06 3.27E-06 3.08E-06 2.90E-06 2.75E-
06 2.67E-06 2.59E-06 2.51E-06 2.44E-06 2.38E-06
2.30E-06 2.19E-06 1.99E-06
2.73 0.00E+00 4.77E-05 4.69E-05 4.47E-05 4.25E-05 4.03E-05 3.83E-05 3.64E-
05 3.45E-05 3.28E-05 3.12E-05 2.96E-05 2.81E-05
2.67E-05 2.54E-05 2.41E-05 2.29E-05 2.18E-05 2.07E-05 1.97E-05 1.88E-
05 1.82E-05 1.78E-05 1.73E-05 1.69E-05 1.65E-05
1.60E-05 1.53E-05 1.42E-05
2.77 0.00E+00 1.25E-04 1.22E-04 1.15E-04 1.09E-04 1.03E-04 9.75E-05 9.21E-
05 8.72E-05 8.25E-05 7.81E-05 7.39E-05 7.00E-05
6.62E-05 6.27E-05 5.94E-05 5.63E-05 5.34E-05 5.06E-05 4.79E-05 4.57E-
05 4.43E-05 4.31E-05 4.20E-05 4.09E-05 3.99E-05
3.87E-05 3.70E-05 3.44E-05
2.79 0.00E+00 2.42E-04 2.34E-04 2.20E-04 2.07E-04 1.95E-04 1.83E-04 1.73E-
04 1.62E-04 1.53E-04 1.44E-04 1.36E-04 1.28E-04
1.21E-04 1.14E-04 1.08E-04 1.02E-04 9.61E-05 9.08E-05 8.58E-05 8.15E-
05 7.89E-05 7.67E-05 7.46E-05 7.26E-05 7.06E-05

6.84E-05 6.53E-05 6.07E-05
2.81 0.00E+00 3.70E-04 3.55E-04 3.34E-04 3.13E-04 2.93E-04 2.75E-04 2.58E-
04 2.42E-04 2.27E-04 2.14E-04 2.01E-04 1.89E-04
1.77E-04 1.67E-04 1.57E-04 1.48E-04 1.39E-04 1.31E-04 1.24E-04 1.17E-
04 1.13E-04 1.10E-04 1.07E-04 1.04E-04 1.01E-04
9.77E-05 9.30E-05 8.66E-05
2.82 0.00E+00 4.98E-04 4.76E-04 4.46E-04 4.17E-04 3.90E-04 3.65E-04 3.41E-
04 3.19E-04 2.99E-04 2.81E-04 2.63E-04 2.47E-04
2.31E-04 2.17E-04 2.04E-04 1.92E-04 1.80E-04 1.69E-04 1.59E-04 1.51E-
04 1.46E-04 1.41E-04 1.37E-04 1.33E-04 1.29E-04
1.25E-04 1.19E-04 1.10E-04
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04 4.26E-04 3.98E-04 3.72E-04 3.48E-04 3.26E-04
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04 1.89E-04 1.83E-04 1.77E-04 1.72E-04 1.67E-04
1.61E-04 1.53E-04 1.42E-04
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04 5.75E-04 5.36E-04 5.00E-04 4.66E-04 4.35E-04
4.06E-04 3.79E-04 3.54E-04 3.31E-04 3.10E-04 2.90E-04 2.71E-04 2.56E-
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2.09E-04 1.98E-04 1.84E-04
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5.46E-04 5.09E-04 4.74E-04 4.42E-04 4.13E-04 3.85E-04 3.60E-04 3.38E-
04 3.25E-04 3.14E-04 3.04E-04 2.94E-04 2.85E-04
2.74E-04 2.59E-04 2.40E-04
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03 1.09E-03 1.01E-03 9.35E-04 8.67E-04 8.04E-04
7.45E-04 6.92E-04 6.43E-04 5.98E-04 5.56E-04 5.17E-04 4.82E-04 4.52E-
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1.03E-03 9.53E-04 8.83E-04 8.18E-04 7.59E-04 7.04E-04 6.53E-04 6.11E-
04 5.85E-04 5.64E-04 5.44E-04 5.25E-04 5.07E-04
4.86E-04 4.58E-04 4.24E-04
2.88 0.00E+00 3.95E-03 3.68E-03 3.38E-03 3.10E-03 2.84E-03 2.60E-03 2.38E-
03 2.19E-03 2.01E-03 1.85E-03 1.70E-03 1.57E-03
1.44E-03 1.33E-03 1.23E-03 1.14E-03 1.05E-03 9.70E-04 8.98E-04 8.38E-
04 8.00E-04 7.70E-04 7.42E-04 7.15E-04 6.89E-04
6.60E-04 6.19E-04 5.72E-04
2.88 0.00E+00 5.86E-03 5.44E-03 4.98E-03 4.55E-03 4.16E-03 3.80E-03 3.47E-
03 3.18E-03 2.91E-03 2.67E-03 2.44E-03 2.24E-03
2.06E-03 1.89E-03 1.74E-03 1.60E-03 1.47E-03 1.36E-03 1.25E-03 1.16E-
03 1.11E-03 1.07E-03 1.02E-03 9.86E-04 9.48E-04
9.06E-04 8.48E-04 7.82E-04
2.89 0.00E+00 8.78E-03 8.13E-03 7.42E-03 6.77E-03 6.16E-03 5.62E-03 5.12E-
03 4.67E-03 4.26E-03 3.89E-03 3.56E-03 3.25E-03
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1.26E-03 1.18E-03 1.08E-03
2.90 0.00E+00 1.32E-02 1.22E-02 1.11E-02 1.01E-02 9.23E-03 8.39E-03 7.63E-
03 6.95E-03 6.33E-03 5.77E-03 5.25E-03 4.79E-03
4.36E-03 3.98E-03 3.63E-03 3.32E-03 3.03E-03 2.78E-03 2.54E-03 2.35E-
03 2.23E-03 2.13E-03 2.04E-03 1.96E-03 1.88E-03
1.79E-03 1.66E-03 1.52E-03

2.91 0.00E+00 1.97E-02 1.83E-02 1.67E-02 1.52E-02 1.39E-02 1.26E-02 1.15E-
02 1.04E-02 9.48E-03 8.62E-03 7.84E-03 7.12E-03
6.48E-03 5.89E-03 5.36E-03 4.89E-03 4.45E-03 4.06E-03 3.70E-03 3.41E-
03 3.23E-03 3.08E-03 2.95E-03 2.82E-03 2.70E-03
2.56E-03 2.38E-03 2.17E-03
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02 1.56E-02 1.42E-02 1.29E-02 1.18E-02 1.07E-02
9.70E-03 8.81E-03 8.01E-03 7.28E-03 6.62E-03 6.01E-03 5.47E-03 5.02E-
03 4.75E-03 4.53E-03 4.32E-03 4.13E-03 3.94E-03
3.74E-03 3.45E-03 3.15E-03
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02 2.32E-02 2.12E-02 1.93E-02 1.76E-02 1.60E-02
1.46E-02 1.32E-02 1.20E-02 1.09E-02 9.91E-03 9.00E-03 8.17E-03 7.49E-
03 7.06E-03 6.73E-03 6.42E-03 6.12E-03 5.84E-03
5.52E-03 5.09E-03 4.63E-03
2.94 0.00E+00 5.45E-02 5.19E-02 4.88E-02 4.56E-02 4.24E-02 3.94E-02 3.64E-
02 3.36E-02 3.09E-02 2.84E-02 2.60E-02 2.38E-02
2.17E-02 1.98E-02 1.80E-02 1.64E-02 1.49E-02 1.35E-02 1.23E-02 1.12E-
02 1.06E-02 1.01E-02 9.61E-03 9.16E-03 8.73E-03
8.24E-03 7.58E-03 6.88E-03
2.95 0.00E+00 6.81E-02 6.59E-02 6.30E-02 5.98E-02 5.65E-02 5.32E-02 4.98E-
02 4.66E-02 4.34E-02 4.03E-02 3.73E-02 3.44E-02
3.16E-02 2.90E-02 2.65E-02 2.43E-02 2.21E-02 2.02E-02 1.84E-02 1.68E-
02 1.59E-02 1.51E-02 1.44E-02 1.38E-02 1.31E-02
1.24E-02 1.14E-02 1.03E-02
2.96 0.00E+00 7.85E-02 7.74E-02 7.55E-02 7.31E-02 7.03E-02 6.73E-02 6.42E-
02 6.09E-02 5.76E-02 5.43E-02 5.09E-02 4.75E-02
4.42E-02 4.10E-02 3.80E-02 3.50E-02 3.22E-02 2.95E-02 2.70E-02 2.49E-
02 2.36E-02 2.25E-02 2.15E-02 2.05E-02 1.96E-02
1.85E-02 1.71E-02 1.55E-02
2.97 0.00E+00 8.14E-02 8.22E-02 8.24E-02 8.18E-02 8.05E-02 7.87E-02 7.65E-
02 7.41E-02 7.14E-02 6.84E-02 6.53E-02 6.20E-02
5.86E-02 5.52E-02 5.17E-02 4.84E-02 4.50E-02 4.18E-02 3.86E-02 3.59E-
02 3.42E-02 3.27E-02 3.14E-02 3.01E-02 2.88E-02
2.73E-02 2.53E-02 2.31E-02
2.98 0.00E+00 8.15E-02 8.22E-02 8.26E-02 8.28E-02 8.29E-02 8.30E-02 8.30E-
02 8.25E-02 8.14E-02 7.97E-02 7.76E-02 7.51E-02
7.23E-02 6.93E-02 6.62E-02 6.29E-02 5.95E-02 5.60E-02 5.25E-02 4.95E-
02 4.74E-02 4.57E-02 4.41E-02 4.25E-02 4.09E-02
3.90E-02 3.64E-02 3.35E-02
2.99 0.00E+00 8.15E-02 8.22E-02 8.26E-02 8.28E-02 8.29E-02 8.30E-02 8.31E-
02 8.33E-02 8.35E-02 8.37E-02 8.37E-02 8.33E-02
8.21E-02 8.05E-02 7.84E-02 7.60E-02 7.33E-02 7.03E-02 6.70E-02 6.41E-
02 6.20E-02 6.03E-02 5.86E-02 5.69E-02 5.51E-02
5.30E-02 5.01E-02 4.68E-02
3.00 0.00E+00 8.15E-02 8.22E-02 8.26E-02 8.28E-02 8.29E-02 8.30E-02 8.31E-
02 8.33E-02 8.35E-02 8.37E-02 8.38E-02 8.39E-02
8.40E-02 8.41E-02 8.42E-02 8.39E-02 8.29E-02 8.13E-02 7.92E-02 7.70E-
02 7.55E-02 7.41E-02 7.26E-02 7.12E-02 6.96E-02
6.77E-02 6.49E-02 6.17E-02
3.01 0.00E+00 8.15E-02 8.22E-02 8.26E-02 8.28E-02 8.29E-02 8.30E-02 8.31E-
02 8.33E-02 8.35E-02 8.37E-02 8.38E-02 8.39E-02
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02 8.41E-02 8.36E-02 8.29E-02 8.21E-02 8.12E-02
8.00E-02 7.80E-02 7.57E-02
3.02 0.00E+00 8.15E-02 8.22E-02 8.26E-02 8.28E-02 8.29E-02 8.30E-02 8.31E-
02 8.33E-02 8.35E-02 8.37E-02 8.38E-02 8.39E-02

8.55E-02 8.58E-02 8.64E-02
3.37 0.00E+00 8.20E-02 8.23E-02 8.26E-02 8.28E-02 8.30E-02 8.30E-02 8.31E-
02 8.33E-02 8.35E-02 8.37E-02 8.38E-02 8.39E-02
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02 8.49E-02 8.50E-02 8.51E-02 8.52E-02 8.53E-02
8.55E-02 8.58E-02 8.62E-02
3.57 0.00E+00 8.22E-02 8.24E-02 8.27E-02 8.29E-02 8.30E-02 8.30E-02 8.31E-
02 8.33E-02 8.35E-02 8.37E-02 8.38E-02 8.39E-02
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02 8.48E-02 8.49E-02 8.51E-02 8.52E-02 8.53E-02
8.54E-02 8.57E-02 8.60E-02
3.82 0.00E+00 8.24E-02 8.25E-02 8.27E-02 8.29E-02 8.30E-02 8.30E-02 8.31E-
02 8.33E-02 8.35E-02 8.37E-02 8.39E-02 8.40E-02
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02 8.48E-02 8.49E-02 8.50E-02 8.51E-02 8.53E-02
8.54E-02 8.56E-02 8.59E-02
4.07 0.00E+00 8.25E-02 8.26E-02 8.28E-02 8.30E-02 8.31E-02 8.29E-02 8.30E-
02 8.32E-02 8.35E-02 8.37E-02 8.39E-02 8.40E-02
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02 8.47E-02 8.49E-02 8.50E-02 8.51E-02 8.52E-02
8.53E-02 8.56E-02 8.57E-02
4.32 0.00E+00 8.26E-02 8.27E-02 8.29E-02 8.31E-02 8.33E-02 8.28E-02 8.29E-
02 8.32E-02 8.35E-02 8.38E-02 8.40E-02 8.42E-02
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02 8.47E-02 8.48E-02 8.49E-02 8.51E-02 8.52E-02
8.53E-02 8.55E-02 8.56E-02
4.57 0.00E+00 8.26E-02 8.28E-02 8.30E-02 8.33E-02 8.36E-02 8.25E-02 8.28E-
02 8.32E-02 8.35E-02 8.38E-02 8.42E-02 8.45E-02
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02 8.46E-02 8.47E-02 8.49E-02 8.50E-02 8.52E-02
8.53E-02 8.55E-02 8.56E-02
4.77 0.00E+00 8.27E-02 8.28E-02 8.30E-02 8.34E-02 8.41E-02 8.20E-02 8.27E-
02 8.31E-02 8.35E-02 8.38E-02 8.43E-02 8.50E-02
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8.53E-02 8.54E-02 8.55E-02
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02 8.31E-02 8.35E-02 8.38E-02 8.43E-02 8.54E-02
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02 8.45E-02 8.47E-02 8.49E-02 8.50E-02 8.51E-02
8.52E-02 8.54E-02 8.55E-02
4.95 0.00E+00 8.27E-02 8.28E-02 8.30E-02 8.35E-02 8.49E-02 8.12E-02 8.26E-
02 8.31E-02 8.35E-02 8.38E-02 8.43E-02 8.57E-02
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8.52E-02 8.54E-02 8.55E-02
4.98 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 8.10E-02 8.26E-
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8.20E-02 8.36E-02 8.41E-02 8.45E-02 8.50E-02 8.65E-02 8.28E-02 8.42E-
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8.19E-02 8.36E-02 8.41E-02 8.45E-02 8.50E-02 8.66E-02 8.27E-02 8.42E-
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2.94-1.48E-03 8.53E-04 8.75E-04 8.75E-04 8.74E-04 8.73E-04 8.73E-04 8.74E-
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2.97-5.36E-03 9.29E-04 9.83E-04 9.88E-04 9.87E-04 9.81E-04 9.70E-04 9.58E-
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8.92E-04 9.19E-04 3.21E-03
3.01 0.00E+00 8.69E-04 9.57E-04 9.84E-04 1.00E-03 1.01E-03 1.00E-03 1.00E-
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9.33E-04 9.63E-04 4.31E-03
3.02 0.00E+00 8.55E-04 9.50E-04 9.79E-04 9.97E-04 1.00E-03 1.00E-03 9.99E-
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1.02E-03 1.01E-03 1.01E-03 1.02E-03 1.03E-03 1.02E-03 9.81E-04 1.11E-
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9.67E-04 1.00E-03 5.75E-03
3.03 0.00E+00 8.41E-04 9.42E-04 9.75E-04 9.95E-04 1.00E-03 9.99E-04 9.96E-
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3.04 0.00E+00 8.28E-04 9.35E-04 9.70E-04 9.92E-04 1.00E-03 9.96E-04 9.93E-
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9.60E-04 9.87E-04 0.00E+00
3.05 0.00E+00 8.15E-04 9.28E-04 9.66E-04 9.89E-04 9.99E-04 9.94E-04 9.90E-
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9.54E-04 9.69E-04 0.00E+00
3.06 0.00E+00 8.02E-04 9.21E-04 9.61E-04 9.86E-04 9.97E-04 9.92E-04 9.87E-
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9.47E-04 9.52E-04 0.00E+00
3.07 0.00E+00 7.89E-04 9.14E-04 9.57E-04 9.83E-04 9.95E-04 9.90E-04 9.84E-
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9.09E-04 8.59E-04 0.00E+00
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 04 6.70E-04 6.22E-04 5.80E-04 5.41E-04 4.99E-04
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 4.32 0.00E+00 1.85E-04 3.39E-04 4.96E-04 7.28E-04 1.04E-03 7.71E-04 5.86E-
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 4.77 0.00E+00 6.38E-05 1.26E-04 2.21E-04 5.13E-04 1.82E-03 5.60E-04 2.72E-
 04 2.07E-04 2.07E-04 2.73E-04 5.56E-04 1.78E-03
 5.93E-04 3.04E-04 2.50E-04 3.01E-04 5.80E-04 1.73E-03 5.96E-04 3.47E-
 04 2.65E-04 2.19E-04 1.90E-04 1.69E-04 1.49E-04
 1.20E-04 6.76E-05 0.00E+00
 4.89 0.00E+00 2.83E-05 5.67E-05 1.03E-04 3.02E-04 2.45E-03 3.56E-04 1.38E-
 04 1.01E-04 1.01E-04 1.38E-04 3.51E-04 2.38E-03
 4.00E-04 1.65E-04 1.32E-04 1.64E-04 3.90E-04 2.29E-03 4.25E-04 2.07E-
 04 1.50E-04 1.22E-04 1.05E-04 9.23E-05 8.15E-05
 6.50E-05 3.65E-05 0.00E+00
 4.95 0.00E+00 9.45E-06 1.90E-05 3.48E-05 1.18E-04 2.94E-03 1.79E-04 6.01E-
 05 4.35E-05 4.36E-05 6.01E-05 1.76E-04 2.84E-03
 2.33E-04 8.41E-05 6.62E-05 8.32E-05 2.27E-04 2.73E-03 2.75E-04 1.19E-
 04 8.42E-05 6.79E-05 5.83E-05 5.13E-05 4.53E-05
 3.61E-05 2.02E-05 0.00E+00
 4.98 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 3.24E-03 6.46E-05 2.01E-
 05 1.45E-05 1.45E-05 2.01E-05 6.34E-05 3.12E-03
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 05 5.07E-05 4.08E-05 3.50E-05 3.08E-05 2.72E-05
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 6.56E-05 2.12E-05 1.66E-05 2.09E-05 6.37E-05 3.15E-03 1.24E-04 4.82E-
 05 3.38E-05 2.72E-05 2.33E-05 2.05E-05 1.81E-05
 1.44E-05 8.08E-06 0.00E+00
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CONCENTRATION

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8.50E-08 7.77E-10 5.67E-12
1.15 5.65E-10 6.28E-08 5.29E-06 2.98E-04 8.49E-03 8.78E-03 8.78E-03 8.78E-03
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1.19E-06 1.08E-08 7.92E-11
1.25 6.05E-09 6.73E-07 5.67E-05 3.19E-03 9.09E-02 9.41E-02 9.41E-02 9.41E-02
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1.27E-05 1.16E-07 8.49E-10
1.35 4.56E-08 5.08E-06 4.27E-04 2.41E-02 6.86E-01 7.09E-01 7.10E-01 7.10E-01
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7.10E-01 7.10E-01 7.10E-01 7.10E-01 7.10E-01 7.10E-01 7.10E-01 7.10E-01
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9.59E-05 8.77E-07 6.40E-09
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2.65 3.82E-05 2.11E-04 6.12E-03 3.28E-01 9.49E+00 9.83E+00 9.85E+00
9.86E+00 9.87E+00 9.87E+00 9.88E+00 9.89E+00 9.89E+00
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4.42E-03 2.39E-03 1.40E-03
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8.24E+00 8.32E+00 8.40E+00 8.47E+00 8.54E+00 8.60E+00
8.66E+00 8.72E+00 8.77E+00 8.83E+00 8.87E+00 8.92E+00 8.96E+00
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7.34E+00 7.46E+00 7.57E+00 7.67E+00 7.77E+00 7.86E+00
7.95E+00 8.03E+00 8.11E+00 8.19E+00 8.26E+00 8.33E+00 8.39E+00
8.44E+00 8.46E+00 8.43E+00 7.56E+00 1.20E+00 2.20E-01
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6.66E+00 6.80E+00 6.93E+00 7.05E+00 7.17E+00 7.29E+00
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1.60E-01 1.37E-01 9.73E-02
2.82 8.76E-04 2.97E-03 9.97E-03 1.66E-01 5.34E+00 5.78E+00 5.97E+00
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6.97E+00 7.08E+00 7.20E+00 7.30E+00 7.40E+00 7.50E+00 7.59E+00
7.66E+00 7.70E+00 7.68E+00 6.93E+00 1.22E+00 2.98E-01
1.92E-01 1.66E-01 1.19E-01
2.83 9.82E-04 3.31E-03 1.05E-02 1.45E-01 4.73E+00 5.17E+00 5.37E+00
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2.29E-01 1.99E-01 1.45E-01

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2.71E-01 2.37E-01 1.75E-01
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3.18E-01 2.81E-01 2.09E-01
2.86 1.32E-03 4.32E-03 1.21E-02 8.43E-02 2.72E+00 3.12E+00 3.35E+00
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3.71E-01 3.29E-01 2.49E-01
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4.61E+00 4.69E+00 4.73E+00 4.39E+00 1.21E+00 6.05E-01
4.91E-01 4.42E-01 3.42E-01
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6.22E-01 5.67E-01 4.54E-01
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6.84E-01 6.28E-01 5.13E-01
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7.40E-01 6.84E-01 5.73E-01
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01 6.39E-01 7.04E-01 7.64E-01 8.27E-01 8.84E-01
9.40E-01 9.92E-01 1.05E+00 1.10E+00 1.16E+00 1.21E+00 1.26E+00
1.30E+00 1.32E+00 1.33E+00 1.30E+00 1.03E+00 9.29E-01
8.51E-01 8.01E-01 7.46E-01
2.96 1.91E-03 5.63E-03 1.50E-02 4.31E-02 2.45E-01 3.69E-01 4.59E-01 5.42E-
01 6.12E-01 6.76E-01 7.33E-01 7.93E-01 8.48E-01
9.00E-01 9.49E-01 1.00E+00 1.05E+00 1.10E+00 1.14E+00 1.19E+00
1.22E+00 1.23E+00 1.24E+00 1.22E+00 1.02E+00 9.34E-01
8.60E-01 8.10E-01 7.65E-01
2.97 1.97E-03 5.71E-03 1.52E-02 4.43E-02 2.30E-01 3.51E-01 4.41E-01 5.22E-
01 5.92E-01 6.54E-01 7.10E-01 7.69E-01 8.22E-01
8.72E-01 9.19E-01 9.69E-01 1.02E+00 1.06E+00 1.10E+00 1.15E+00
1.17E+00 1.18E+00 1.19E+00 1.17E+00 1.01E+00 9.37E-01
8.64E-01 8.16E-01 7.77E-01
2.98 2.03E-03 5.76E-03 1.54E-02 4.56E-02 2.18E-01 3.37E-01 4.26E-01 5.06E-
01 5.75E-01 6.37E-01 6.92E-01 7.50E-01 8.02E-01
8.51E-01 8.96E-01 9.45E-01 9.90E-01 1.03E+00 1.07E+00 1.12E+00
1.14E+00 1.15E+00 1.15E+00 1.13E+00 1.01E+00 9.38E-01
8.67E-01 8.19E-01 7.85E-01
2.99 2.09E-03 5.80E-03 1.55E-02 4.64E-02 2.09E-01 3.26E-01 4.15E-01 4.92E-
01 5.61E-01 6.23E-01 6.78E-01 7.33E-01 7.85E-01
8.34E-01 8.79E-01 9.27E-01 9.71E-01 1.01E+00 1.05E+00 1.09E+00
1.11E+00 1.12E+00 1.12E+00 1.11E+00 1.00E+00 9.38E-01
8.69E-01 8.21E-01 7.90E-01
3.00 2.14E-03 5.85E-03 1.57E-02 4.69E-02 2.00E-01 3.15E-01 4.03E-01 4.80E-
01 5.49E-01 6.11E-01 6.66E-01 7.20E-01 7.71E-01
8.20E-01 8.65E-01 9.11E-01 9.54E-01 9.95E-01 1.03E+00 1.07E+00
1.09E+00 1.10E+00 1.10E+00 1.09E+00 9.96E-01 9.38E-01
8.70E-01 8.22E-01 7.93E-01
3.01 2.19E-03 5.89E-03 1.58E-02 4.72E-02 1.91E-01 3.04E-01 3.92E-01 4.69E-
01 5.37E-01 5.99E-01 6.54E-01 7.08E-01 7.59E-01
8.08E-01 8.53E-01 8.97E-01 9.40E-01 9.82E-01 1.02E+00 1.06E+00
1.08E+00 1.09E+00 1.09E+00 1.07E+00 9.91E-01 9.37E-01
8.70E-01 8.23E-01 7.96E-01
3.02 2.23E-03 5.92E-03 1.59E-02 4.74E-02 1.83E-01 2.94E-01 3.81E-01 4.57E-
01 5.26E-01 5.87E-01 6.43E-01 6.96E-01 7.47E-01
7.96E-01 8.41E-01 8.85E-01 9.29E-01 9.70E-01 1.01E+00 1.04E+00
1.06E+00 1.07E+00 1.07E+00 1.06E+00 9.87E-01 9.36E-01
8.70E-01 8.23E-01 7.98E-01
3.03 2.27E-03 5.95E-03 1.60E-02 4.75E-02 1.75E-01 2.84E-01 3.70E-01 4.46E-
01 5.14E-01 5.75E-01 6.31E-01 6.85E-01 7.36E-01
7.84E-01 8.29E-01 8.74E-01 9.17E-01 9.58E-01 9.96E-01 1.03E+00
1.05E+00 1.06E+00 1.06E+00 1.04E+00 9.83E-01 9.34E-01
8.70E-01 8.23E-01 7.99E-01
3.04 2.31E-03 5.98E-03 1.60E-02 4.74E-02 1.68E-01 2.74E-01 3.60E-01 4.35E-
01 5.03E-01 5.64E-01 6.20E-01 6.73E-01 7.24E-01
7.73E-01 8.18E-01 8.62E-01 9.05E-01 9.46E-01 9.85E-01 1.02E+00
1.04E+00 1.05E+00 1.05E+00 1.03E+00 9.79E-01 9.32E-01
8.70E-01 8.23E-01 8.00E-01
3.05 2.34E-03 6.00E-03 1.61E-02 4.72E-02 1.61E-01 2.65E-01 3.50E-01 4.25E-
01 4.92E-01 5.53E-01 6.09E-01 6.62E-01 7.13E-01
7.61E-01 8.06E-01 8.51E-01 8.94E-01 9.35E-01 9.73E-01 1.01E+00
1.03E+00 1.04E+00 1.04E+00 1.02E+00 9.74E-01 9.30E-01

8.69E-01 8.23E-01 8.01E-01
3.06 2.36E-03 6.02E-03 1.61E-02 4.69E-02 1.55E-01 2.56E-01 3.40E-01 4.14E-
01 4.81E-01 5.42E-01 5.97E-01 6.51E-01 7.01E-01
7.50E-01 7.95E-01 8.39E-01 8.82E-01 9.23E-01 9.62E-01 9.98E-01
1.02E+00 1.03E+00 1.03E+00 1.01E+00 9.68E-01 9.26E-01
8.68E-01 8.22E-01 8.01E-01
3.07 2.39E-03 6.03E-03 1.61E-02 4.65E-02 1.49E-01 2.47E-01 3.30E-01 4.04E-
01 4.71E-01 5.31E-01 5.87E-01 6.40E-01 6.90E-01
7.38E-01 7.84E-01 8.28E-01 8.71E-01 9.12E-01 9.51E-01 9.87E-01
1.01E+00 1.01E+00 1.02E+00 1.00E+00 9.62E-01 9.23E-01
8.66E-01 8.22E-01 8.02E-01
3.08 2.40E-03 6.04E-03 1.61E-02 4.61E-02 1.43E-01 2.39E-01 3.21E-01 3.94E-
01 4.60E-01 5.20E-01 5.76E-01 6.29E-01 6.79E-01
7.27E-01 7.73E-01 8.17E-01 8.60E-01 9.01E-01 9.39E-01 9.76E-01 9.94E-
01 1.00E+00 1.01E+00 9.92E-01 9.56E-01 9.19E-01
8.64E-01 8.21E-01 8.01E-01
3.09 2.42E-03 6.04E-03 1.60E-02 4.56E-02 1.38E-01 2.31E-01 3.12E-01 3.84E-
01 4.50E-01 5.10E-01 5.65E-01 6.18E-01 6.68E-01
7.16E-01 7.61E-01 8.06E-01 8.48E-01 8.89E-01 9.28E-01 9.65E-01 9.83E-
01 9.93E-01 9.94E-01 9.82E-01 9.50E-01 9.15E-01
8.62E-01 8.20E-01 8.01E-01
3.11 2.44E-03 6.04E-03 1.59E-02 4.47E-02 1.30E-01 2.19E-01 2.98E-01 3.70E-
01 4.35E-01 4.94E-01 5.49E-01 6.02E-01 6.52E-01
7.00E-01 7.45E-01 7.89E-01 8.32E-01 8.73E-01 9.12E-01 9.48E-01 9.67E-
01 9.76E-01 9.78E-01 9.68E-01 9.40E-01 9.08E-01
8.59E-01 8.18E-01 8.00E-01
3.13 2.46E-03 6.02E-03 1.57E-02 4.31E-02 1.19E-01 2.01E-01 2.77E-01 3.47E-
01 4.11E-01 4.69E-01 5.24E-01 5.76E-01 6.26E-01
6.73E-01 7.18E-01 7.62E-01 8.05E-01 8.45E-01 8.84E-01 9.20E-01 9.39E-
01 9.49E-01 9.52E-01 9.44E-01 9.22E-01 8.95E-01
8.52E-01 8.13E-01 7.97E-01
3.17 2.46E-03 5.93E-03 1.52E-02 4.03E-02 1.03E-01 1.76E-01 2.47E-01 3.13E-
01 3.74E-01 4.31E-01 4.85E-01 5.36E-01 5.85E-01
6.32E-01 6.76E-01 7.20E-01 7.62E-01 8.03E-01 8.42E-01 8.78E-01 8.97E-
01 9.07E-01 9.11E-01 9.07E-01 8.92E-01 8.73E-01
8.37E-01 8.04E-01 7.91E-01
3.25 2.39E-03 5.63E-03 1.39E-02 3.45E-02 7.92E-02 1.37E-01 1.97E-01 2.55E-
01 3.12E-01 3.65E-01 4.16E-01 4.65E-01 5.13E-01
5.58E-01 6.02E-01 6.45E-01 6.86E-01 7.26E-01 7.64E-01 8.00E-01 8.20E-
01 8.31E-01 8.38E-01 8.39E-01 8.34E-01 8.24E-01
8.03E-01 7.80E-01 7.70E-01
3.37 2.12E-03 4.85E-03 1.13E-02 2.56E-02 5.30E-02 9.12E-02 1.35E-01 1.82E-
01 2.29E-01 2.75E-01 3.20E-01 3.64E-01 4.08E-01
4.50E-01 4.91E-01 5.32E-01 5.71E-01 6.09E-01 6.47E-01 6.82E-01 7.02E-
01 7.15E-01 7.25E-01 7.32E-01 7.35E-01 7.35E-01
7.30E-01 7.22E-01 7.18E-01
3.57 1.53E-03 3.40E-03 7.32E-03 1.50E-02 2.86E-02 4.85E-02 7.37E-02 1.03E-
01 1.35E-01 1.68E-01 2.03E-01 2.38E-01 2.74E-01
3.09E-01 3.45E-01 3.80E-01 4.15E-01 4.50E-01 4.84E-01 5.17E-01 5.38E-
01 5.51E-01 5.64E-01 5.75E-01 5.84E-01 5.91E-01
6.01E-01 6.07E-01 6.10E-01
3.82 9.27E-04 2.01E-03 4.10E-03 7.92E-03 1.43E-02 2.39E-02 3.68E-02 5.27E-
02 7.13E-02 9.21E-02 1.15E-01 1.39E-01 1.65E-01
1.91E-01 2.19E-01 2.46E-01 2.74E-01 3.03E-01 3.32E-01 3.61E-01 3.80E-
01 3.92E-01 4.05E-01 4.16E-01 4.27E-01 4.37E-01
4.51E-01 4.65E-01 4.71E-01

		VOLUMETRIC FLOW BALANCE				
TOTAL	TIME STEP	TIME STEP	TIME STEP	+		
+						
**3	m **3	m **3/day		+		m
+	FLUX INTO DOMAIN ACROSS SPECIFIED PRESSURE HEAD BOUNDARIES	--				
2.00773E+01	2.91176E-02	6.69257E-02	+			
+	FLUX OUT OF DOMAIN ACROSS SPECIFIED PRESSURE HEAD BOUNDARIES	--				-
2.10546E+01	-3.05316E-02	-7.01757E-02	+			
+	FLUX INTO DOMAIN ACROSS SPECIFIED FLUX BOUNDARIES	--				
9.75000E-01	1.41399E-03	3.25000E-03	+			
+	FLUX OUT OF DOMAIN ACROSS SPECIFIED FLUX BOUNDARIES	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	TOTAL FLUX INTO DOMAIN	--				
2.10523E+01	3.05316E-02	7.01757E-02	+			
+	TOTAL FLUX OUT OF DOMAIN	--				-
2.10546E+01	-3.05316E-02	-7.01757E-02	+			
+	EVAPORATION	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	TRANSPIRATION	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	TOTAL EVAPOTRANSPIRATION	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	CHANGE IN FLUID STORED IN DOMAIN	--				-
1.83222E-04	-4.14444E-10	-9.52586E-10	+			
+	FLUID VOLUME BALANCE	--				-
2.09916E-03	-2.38811E-08	-5.48897E-08	+			

SOLUTE MASS BALANCE

		SOLUTE MASS BALANCE				
g	g /day	g /day	g /day	+		g
+	FLUX INTO DOMAIN ACROSS SPECIFIED PRESSURE HEAD BOUNDARIES	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	FLUX OUT OF DOMAIN ACROSS SPECIFIED PRESSURE HEAD BOUNDARIES	--				-
6.99543E+00	-1.32072E-02	-3.03562E-02	+			
+	FLUX INTO DOMAIN ACROSS SPECIFIED FLUX BOUNDARIES	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	FLUX OUT OF DOMAIN ACROSS SPECIFIED FLUX BOUNDARIES	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	DIFFUSIVE/DISPERSIVE FLUX INTO DOMAIN	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	DIFFUSIVE/DISPERSIVE FLUX OUT OF DOMAIN	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	TOTAL FLUX INTO DOMAIN	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	TOTAL FLUX OUT OF DOMAIN	--				-
6.99543E+00	-1.32072E-02	-3.03562E-02	+			
+	TOTAL EVAPOTRANSPIRATION	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	FIRST ORDER DECAY	--				
0.00000E+00	0.00000E+00	0.00000E+00	+			
+	ADSORPTION/ION EXCHANGE	--				-
6.69388E+01	1.04235E-02	2.39581E-02	+			

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+
1.00692E+00      CHANGE IN SOLUTE STORED IN DOMAIN --
-2.78236E-03      -6.39515E-03      +
+
1.61281E-02      SOLUTE MASS BALANCE --      -
-1.29578E-06      -2.97831E-06      +
+
+

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+++++

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3 m sand BENZENE 2/18/99 txt edit

MONITORING POINT FILE

TIME, day	XR, m	Z, m	H, m	P, m	THETA	SAT
0.000E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01	
1.000E+00	0.000E+00					
0.000E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01	
1.000E+00	0.000E+00					
0.000E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01	
1.000E+00	0.000E+00					
0.000E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01	
1.000E+00	0.000E+00					
0.000E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01	
1.000E+00	0.000E+00					
1.500E-02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01	
1.000E+00	1.705E-26					
1.500E-02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01	
1.000E+00	6.368E-29					
1.500E-02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01	
1.000E+00	9.025E-32					
1.500E-02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01	
1.000E+00	1.052E-34					
1.500E-02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01	
1.000E+00	1.218E-37					
3.750E-02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01	
1.000E+00	1.225E-25					
3.750E-02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01	
1.000E+00	4.637E-28					
3.750E-02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01	
1.000E+00	6.718E-31					
3.750E-02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01	
1.000E+00	7.795E-34					
3.750E-02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01	
1.000E+00	8.920E-37					
7.125E-02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01	
1.000E+00	1.174E-23					
7.125E-02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01	
1.000E+00	5.171E-26					
7.125E-02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01	
1.000E+00	8.777E-29					
7.125E-02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01	
1.000E+00	1.186E-31					
7.125E-02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01	
1.000E+00	1.569E-34					
1.219E-01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01	
1.000E+00	1.100E-20					
1.219E-01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01	
1.000E+00	7.135E-23					
1.219E-01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01	
1.000E+00	1.793E-25					
1.219E-01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01	
1.000E+00	3.588E-28					
1.219E-01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01	
1.000E+00	7.042E-31					
1.978E-01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01	
1.000E+00	9.019E-18					
1.978E-01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01	
1.000E+00	8.732E-20					

1.978E-01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.288E-22				
1.978E-01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	9.862E-25				
1.978E-01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.903E-27				
3.117E-01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.253E-15				
3.117E-01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.135E-17				
3.117E-01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.456E-19				
3.117E-01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.552E-21				
3.117E-01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	6.847E-24				
4.826E-01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.101E-12				
4.826E-01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.362E-14				
4.826E-01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.990E-16				
4.826E-01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.338E-18				
4.826E-01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.845E-21				
7.389E-01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.569E-10				
7.389E-01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.993E-12				
7.389E-01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.288E-14				
7.389E-01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	6.327E-16				
7.389E-01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	6.264E-18				
1.123E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.247E-08				
1.123E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.874E-10				
1.123E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.106E-11				
1.123E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.666E-13				
1.123E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.468E-15				
1.700E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.628E-07				
1.700E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.908E-08				
1.700E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.102E-09				
1.700E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.481E-11				
1.700E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	5.495E-13				

2.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.469E-05				
2.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.496E-06				
2.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.323E-08				
2.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.128E-09				
2.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	7.024E-11				
3.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.258E-04				
3.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.634E-05				
3.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	8.829E-07				
3.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.739E-08				
3.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.531E-09				
4.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.336E-04				
4.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.310E-05				
4.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.376E-06				
4.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.675E-07				
4.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.268E-08				
5.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.558E-03				
5.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.854E-04				
5.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.174E-05				
5.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.251E-06				
5.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	6.758E-08				
6.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.554E-03				
6.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.550E-04				
6.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.705E-05				
6.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.428E-06				
6.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.704E-07				
7.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.803E-03				
7.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.654E-03				
7.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.698E-04				

7.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.277E-05				
7.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.770E-07				
8.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.145E-02				
8.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.141E-03				
8.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.696E-04				
8.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.146E-05				
8.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.415E-06				
9.565E+00	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.752E-02				
9.565E+00	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.350E-03				
9.565E+00	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	7.144E-04				
9.565E+00	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	6.834E-05				
9.565E+00	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	5.835E-06				
1.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.494E-02				
1.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.367E-03				
1.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.256E-03				
1.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.341E-04				
1.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.266E-05				
1.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.357E-02				
1.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.223E-02				
1.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.046E-03				
1.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.420E-04				
1.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.514E-05				
1.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.328E-02				
1.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.695E-02				
1.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.132E-03				
1.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.076E-04				
1.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	4.630E-05				
1.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.389E-02				

1.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.250E-02				
1.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.551E-03				
1.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	6.476E-04				
1.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.004E-05				
1.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.528E-02				
1.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.882E-02				
1.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.337E-03				
1.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	9.798E-04				
1.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.311E-04				
1.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.730E-02				
1.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.586E-02				
1.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	8.510E-03				
1.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.422E-03				
1.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.049E-04				
1.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.982E-02				
1.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.354E-02				
1.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.108E-02				
1.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.990E-03				
1.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.076E-04				
1.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.028E-01				
1.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.180E-02				
1.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.407E-02				
1.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.701E-03				
1.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	4.459E-04				
1.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.160E-01				
1.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.057E-02				
1.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.745E-02				
1.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.569E-03				

1.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	6.267E-04				
1.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.295E-01				
1.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.978E-02				
1.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.124E-02				
1.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.607E-03				
1.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.574E-04				
2.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.431E-01				
2.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.937E-02				
2.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.542E-02				
2.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.824E-03				
2.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.145E-03				
2.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.568E-01				
2.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.930E-02				
2.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.997E-02				
2.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	7.231E-03				
2.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.497E-03				
2.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.707E-01				
2.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	9.949E-02				
2.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.488E-02				
2.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	8.832E-03				
2.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.921E-03				
2.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.845E-01				
2.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.099E-01				
2.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.013E-02				
2.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.063E-02				
2.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.422E-03				
2.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	1.983E-01				
2.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.205E-01				

2.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.570E-02				
2.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.264E-02				
2.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.007E-03				
2.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.121E-01				
2.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.313E-01				
2.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.157E-02				
2.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.485E-02				
2.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.683E-03				
2.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.258E-01				
2.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.422E-01				
2.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.772E-02				
2.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.726E-02				
2.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	4.453E-03				
2.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.394E-01				
2.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.532E-01				
2.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.413E-02				
2.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.988E-02				
2.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	5.324E-03				
2.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.529E-01				
2.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.643E-01				
2.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	7.077E-02				
2.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.270E-02				
2.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	6.299E-03				
2.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.664E-01				
2.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.754E-01				
2.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	7.764E-02				
2.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.572E-02				
2.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	7.381E-03				

3.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.797E-01				
3.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.866E-01				
3.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	8.470E-02				
3.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.893E-02				
3.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.573E-03				
3.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	2.929E-01				
3.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	1.977E-01				
3.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	9.194E-02				
3.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.233E-02				
3.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	9.879E-03				
3.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.059E-01				
3.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.089E-01				
3.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	9.936E-02				
3.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.591E-02				
3.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.130E-02				
3.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.188E-01				
3.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.201E-01				
3.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.069E-01				
3.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.966E-02				
3.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.283E-02				
3.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.316E-01				
3.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.312E-01				
3.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.146E-01				
3.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.359E-02				
3.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.449E-02				
3.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.442E-01				
3.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.423E-01				
3.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.224E-01				

3.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.768E-02				
3.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.626E-02				
3.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.567E-01				
3.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.533E-01				
3.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.304E-01				
3.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.193E-02				
3.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.814E-02				
3.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.691E-01				
3.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.644E-01				
3.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.384E-01				
3.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.633E-02				
3.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.014E-02				
3.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.813E-01				
3.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.753E-01				
3.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.465E-01				
3.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	6.087E-02				
3.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.226E-02				
3.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	3.933E-01				
3.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.862E-01				
3.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.546E-01				
3.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	6.554E-02				
3.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.449E-02				
4.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.053E-01				
4.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	2.970E-01				
4.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.629E-01				
4.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	7.035E-02				
4.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.684E-02				
4.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.170E-01				

4.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.078E-01				
4.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.712E-01				
4.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	7.527E-02				
4.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.929E-02				
4.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.286E-01				
4.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.185E-01				
4.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.795E-01				
4.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	8.031E-02				
4.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.185E-02				
4.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.401E-01				
4.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.291E-01				
4.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.879E-01				
4.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	8.546E-02				
4.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.452E-02				
4.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.515E-01				
4.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.397E-01				
4.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	1.963E-01				
4.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	9.071E-02				
4.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.729E-02				
4.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.627E-01				
4.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.501E-01				
4.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.047E-01				
4.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	9.606E-02				
4.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	4.017E-02				
4.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.738E-01				
4.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.605E-01				
4.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.131E-01				
4.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.015E-01				

4.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	4.313E-02				
4.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.847E-01				
4.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.708E-01				
4.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.215E-01				
4.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.070E-01				
4.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	4.620E-02				
4.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	4.955E-01				
4.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.810E-01				
4.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.300E-01				
4.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.126E-01				
4.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	4.935E-02				
4.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.062E-01				
4.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	3.911E-01				
4.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.384E-01				
4.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.183E-01				
4.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	5.260E-02				
5.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.167E-01				
5.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.011E-01				
5.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.468E-01				
5.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.240E-01				
5.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	5.593E-02				
5.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.271E-01				
5.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.110E-01				
5.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.552E-01				
5.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.298E-01				
5.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	5.933E-02				
5.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.374E-01				
5.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.209E-01				

5.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.636E-01				
5.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.356E-01				
5.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	6.282E-02				
5.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.476E-01				
5.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.306E-01				
5.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.720E-01				
5.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.415E-01				
5.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	6.638E-02				
5.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.576E-01				
5.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.403E-01				
5.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.803E-01				
5.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.474E-01				
5.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	7.001E-02				
5.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.675E-01				
5.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.498E-01				
5.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.886E-01				
5.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.533E-01				
5.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	7.371E-02				
5.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.773E-01				
5.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.593E-01				
5.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	2.969E-01				
5.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.593E-01				
5.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	7.747E-02				
5.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.870E-01				
5.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.686E-01				
5.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.051E-01				
5.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.654E-01				
5.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.129E-02				

5.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	5.965E-01				
5.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.779E-01				
5.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.133E-01				
5.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.714E-01				
5.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.516E-02				
5.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.059E-01				
5.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.871E-01				
5.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.214E-01				
5.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.774E-01				
5.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	8.909E-02				
6.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.152E-01				
6.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	4.961E-01				
6.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.295E-01				
6.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.835E-01				
6.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	9.306E-02				
6.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.244E-01				
6.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.051E-01				
6.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.376E-01				
6.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.896E-01				
6.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	9.708E-02				
6.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.335E-01				
6.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.139E-01				
6.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.455E-01				
6.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	1.957E-01				
6.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.011E-01				
6.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.424E-01				
6.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.227E-01				
6.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.534E-01				

6.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.017E-01				
6.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.052E-01				
6.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.512E-01				
6.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.314E-01				
6.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.613E-01				
6.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.078E-01				
6.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.094E-01				
6.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.599E-01				
6.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.399E-01				
6.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.691E-01				
6.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.139E-01				
6.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.135E-01				
6.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.685E-01				
6.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.484E-01				
6.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.768E-01				
6.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.199E-01				
6.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.177E-01				
6.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.770E-01				
6.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.567E-01				
6.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.844E-01				
6.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.259E-01				
6.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.219E-01				
6.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.854E-01				
6.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.650E-01				
6.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.920E-01				
6.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.319E-01				
6.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.261E-01				
6.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	6.936E-01				

6.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.731E-01				
6.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	3.995E-01				
6.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.379E-01				
6.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.304E-01				
7.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.017E-01				
7.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.811E-01				
7.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.070E-01				
7.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.439E-01				
7.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.346E-01				
7.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.097E-01				
7.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.890E-01				
7.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.143E-01				
7.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.498E-01				
7.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.389E-01				
7.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.176E-01				
7.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	5.969E-01				
7.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.216E-01				
7.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.557E-01				
7.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.431E-01				
7.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.254E-01				
7.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.046E-01				
7.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.287E-01				
7.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.616E-01				
7.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.474E-01				
7.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.331E-01				
7.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.122E-01				
7.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.358E-01				
7.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.674E-01				

7.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.517E-01				
7.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.406E-01				
7.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.196E-01				
7.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.428E-01				
7.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.731E-01				
7.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.559E-01				
7.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.480E-01				
7.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.270E-01				
7.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.498E-01				
7.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.789E-01				
7.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.602E-01				
7.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.553E-01				
7.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.343E-01				
7.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.566E-01				
7.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.845E-01				
7.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.644E-01				
7.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.625E-01				
7.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.414E-01				
7.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.633E-01				
7.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.902E-01				
7.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.687E-01				
7.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.696E-01				
7.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.485E-01				
7.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.700E-01				
7.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	2.957E-01				
7.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.729E-01				
8.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.765E-01				
8.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.554E-01				

8.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.765E-01				
8.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.012E-01				
8.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.771E-01				
8.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.834E-01				
8.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.622E-01				
8.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.830E-01				
8.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.067E-01				
8.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.813E-01				
8.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.901E-01				
8.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.689E-01				
8.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.894E-01				
8.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.121E-01				
8.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.854E-01				
8.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	7.967E-01				
8.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.755E-01				
8.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	4.956E-01				
8.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.174E-01				
8.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.895E-01				
8.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.032E-01				
8.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.819E-01				
8.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.018E-01				
8.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.227E-01				
8.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.936E-01				
8.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.096E-01				
8.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.883E-01				
8.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.078E-01				
8.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.279E-01				
8.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	1.977E-01				

8.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.158E-01				
8.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	6.945E-01				
8.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.138E-01				
8.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.330E-01				
8.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.017E-01				
8.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.220E-01				
8.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.007E-01				
8.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.197E-01				
8.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.381E-01				
8.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.058E-01				
8.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.280E-01				
8.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.067E-01				
8.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.254E-01				
8.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.431E-01				
8.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.097E-01				
8.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.339E-01				
8.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.126E-01				
8.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.311E-01				
8.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.480E-01				
8.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.136E-01				
9.056E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.397E-01				
9.056E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.183E-01				
9.056E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.366E-01				
9.056E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.529E-01				
9.056E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.175E-01				
9.156E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.454E-01				
9.156E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.240E-01				
9.156E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.421E-01				

9.156E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.576E-01				
9.156E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.214E-01				
9.256E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.509E-01				
9.256E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.296E-01				
9.256E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.474E-01				
9.256E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.623E-01				
9.256E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.252E-01				
9.356E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.564E-01				
9.356E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.350E-01				
9.356E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.527E-01				
9.356E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.670E-01				
9.356E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.289E-01				
9.456E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.617E-01				
9.456E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.403E-01				
9.456E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.578E-01				
9.456E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.715E-01				
9.456E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.326E-01				
9.556E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.669E-01				
9.556E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.455E-01				
9.556E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.629E-01				
9.556E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.760E-01				
9.556E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.363E-01				
9.656E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.720E-01				
9.656E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.506E-01				
9.656E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.678E-01				
9.656E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.804E-01				
9.656E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.399E-01				
9.756E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.770E-01				

9.756E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.556E-01				
9.756E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.726E-01				
9.756E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.847E-01				
9.756E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.435E-01				
9.856E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.819E-01				
9.856E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.605E-01				
9.856E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.773E-01				
9.856E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.889E-01				
9.856E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.470E-01				
9.956E+01	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.866E-01				
9.956E+01	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.652E-01				
9.956E+01	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.819E-01				
9.956E+01	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.930E-01				
9.956E+01	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.504E-01				
1.006E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.913E-01				
1.006E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.698E-01				
1.006E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.864E-01				
1.006E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	3.971E-01				
1.006E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.538E-01				
1.016E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.958E-01				
1.016E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.744E-01				
1.016E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.908E-01				
1.016E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.011E-01				
1.016E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.572E-01				
1.026E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.002E-01				
1.026E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.788E-01				
1.026E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.951E-01				
1.026E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.050E-01				

1.026E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.605E-01				
1.036E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.045E-01				
1.036E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.831E-01				
1.036E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.993E-01				
1.036E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.088E-01				
1.036E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.637E-01				
1.046E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.087E-01				
1.046E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.873E-01				
1.046E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.034E-01				
1.046E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.125E-01				
1.046E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.669E-01				
1.056E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.128E-01				
1.056E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.914E-01				
1.056E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.074E-01				
1.056E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.162E-01				
1.056E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.700E-01				
1.066E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.168E-01				
1.066E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.953E-01				
1.066E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.113E-01				
1.066E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.197E-01				
1.066E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.731E-01				
1.076E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.207E-01				
1.076E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.992E-01				
1.076E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.151E-01				
1.076E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.232E-01				
1.076E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.761E-01				
1.086E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.244E-01				
1.086E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.030E-01				

1.086E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.188E-01				
1.086E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.266E-01				
1.086E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.791E-01				
1.096E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.281E-01				
1.096E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.066E-01				
1.096E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.224E-01				
1.096E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.299E-01				
1.096E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.819E-01				
1.106E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.316E-01				
1.106E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.102E-01				
1.106E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.259E-01				
1.106E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.332E-01				
1.106E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.848E-01				
1.116E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.351E-01				
1.116E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.136E-01				
1.116E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.292E-01				
1.116E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.363E-01				
1.116E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.876E-01				
1.126E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.384E-01				
1.126E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.169E-01				
1.126E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.325E-01				
1.126E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.394E-01				
1.126E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.903E-01				
1.136E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.416E-01				
1.136E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.202E-01				
1.136E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.357E-01				
1.136E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.424E-01				
1.136E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.929E-01				

1.146E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.448E-01				
1.146E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.233E-01				
1.146E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.388E-01				
1.146E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.453E-01				
1.146E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.955E-01				
1.156E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.478E-01				
1.156E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.263E-01				
1.156E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.418E-01				
1.156E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.481E-01				
1.156E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.980E-01				
1.166E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.507E-01				
1.166E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.293E-01				
1.166E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.447E-01				
1.166E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.509E-01				
1.166E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.005E-01				
1.176E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.536E-01				
1.176E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.321E-01				
1.176E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.475E-01				
1.176E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.536E-01				
1.176E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.029E-01				
1.186E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.563E-01				
1.186E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.348E-01				
1.186E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.503E-01				
1.186E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.562E-01				
1.186E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.053E-01				
1.196E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.589E-01				
1.196E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.375E-01				
1.196E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.529E-01				

1.196E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.587E-01				
1.196E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.076E-01				
1.206E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.615E-01				
1.206E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.400E-01				
1.206E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.554E-01				
1.206E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.611E-01				
1.206E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.098E-01				
1.216E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.639E-01				
1.216E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.425E-01				
1.216E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.579E-01				
1.216E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.635E-01				
1.216E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.120E-01				
1.226E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.663E-01				
1.226E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.448E-01				
1.226E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.603E-01				
1.226E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.658E-01				
1.226E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.141E-01				
1.236E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.685E-01				
1.236E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.471E-01				
1.236E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.625E-01				
1.236E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.680E-01				
1.236E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.162E-01				
1.246E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.707E-01				
1.246E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.493E-01				
1.246E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.647E-01				
1.246E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.702E-01				
1.246E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.182E-01				
1.256E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.728E-01				

1.256E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.514E-01				
1.256E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.668E-01				
1.256E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.722E-01				
1.256E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.201E-01				
1.266E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.748E-01				
1.266E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.534E-01				
1.266E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.689E-01				
1.266E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.742E-01				
1.266E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.220E-01				
1.276E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.767E-01				
1.276E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.553E-01				
1.276E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.708E-01				
1.276E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.762E-01				
1.276E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.239E-01				
1.286E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.785E-01				
1.286E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.571E-01				
1.286E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.727E-01				
1.286E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.780E-01				
1.286E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.256E-01				
1.296E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.802E-01				
1.296E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.588E-01				
1.296E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.744E-01				
1.296E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.798E-01				
1.296E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.274E-01				
1.306E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.819E-01				
1.306E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.605E-01				
1.306E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.761E-01				
1.306E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.815E-01				

1.306E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.290E-01				
1.316E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.835E-01				
1.316E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.621E-01				
1.316E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.778E-01				
1.316E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.832E-01				
1.316E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.307E-01				
1.326E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.849E-01				
1.326E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.636E-01				
1.326E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.793E-01				
1.326E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.848E-01				
1.326E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.322E-01				
1.336E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.864E-01				
1.336E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.650E-01				
1.336E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.808E-01				
1.336E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.863E-01				
1.336E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.337E-01				
1.346E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.877E-01				
1.346E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.664E-01				
1.346E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.822E-01				
1.346E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.878E-01				
1.346E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.352E-01				
1.356E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.889E-01				
1.356E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.676E-01				
1.356E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.835E-01				
1.356E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.892E-01				
1.356E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.366E-01				
1.366E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.901E-01				
1.366E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.688E-01				

1.366E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.848E-01				
1.366E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.905E-01				
1.366E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.379E-01				
1.376E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.912E-01				
1.376E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.699E-01				
1.376E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.860E-01				
1.376E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.918E-01				
1.376E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.392E-01				
1.386E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.922E-01				
1.386E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.710E-01				
1.386E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.871E-01				
1.386E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.930E-01				
1.386E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.405E-01				
1.396E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.932E-01				
1.396E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.720E-01				
1.396E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.882E-01				
1.396E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.941E-01				
1.396E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.417E-01				
1.406E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.941E-01				
1.406E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.729E-01				
1.406E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.892E-01				
1.406E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.952E-01				
1.406E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.428E-01				
1.416E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.949E-01				
1.416E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.737E-01				
1.416E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.901E-01				
1.416E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.963E-01				
1.416E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.440E-01				

1.426E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.957E-01				
1.426E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.745E-01				
1.426E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.910E-01				
1.426E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.973E-01				
1.426E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.450E-01				
1.436E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.963E-01				
1.436E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.752E-01				
1.436E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.918E-01				
1.436E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.982E-01				
1.436E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.460E-01				
1.446E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.970E-01				
1.446E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.759E-01				
1.446E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.925E-01				
1.446E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.991E-01				
1.446E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.470E-01				
1.456E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.975E-01				
1.456E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.765E-01				
1.456E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.932E-01				
1.456E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.999E-01				
1.456E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.479E-01				
1.466E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.980E-01				
1.466E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.770E-01				
1.466E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.938E-01				
1.466E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.007E-01				
1.466E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.488E-01				
1.476E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.985E-01				
1.476E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.775E-01				
1.476E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.944E-01				

1.476E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.014E-01				
1.476E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.496E-01				
1.486E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.988E-01				
1.486E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.779E-01				
1.486E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.949E-01				
1.486E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.021E-01				
1.486E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.504E-01				
1.496E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.991E-01				
1.496E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.782E-01				
1.496E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.954E-01				
1.496E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.027E-01				
1.496E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.512E-01				
1.506E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.994E-01				
1.506E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.785E-01				
1.506E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.958E-01				
1.506E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.033E-01				
1.506E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.519E-01				
1.516E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.996E-01				
1.516E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.788E-01				
1.516E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.961E-01				
1.516E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.038E-01				
1.516E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.526E-01				
1.526E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.998E-01				
1.526E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.790E-01				
1.526E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.964E-01				
1.526E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.043E-01				
1.526E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.532E-01				
1.536E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.998E-01				

1.536E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.791E-01				
1.536E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.967E-01				
1.536E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.047E-01				
1.536E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.538E-01				
1.546E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.999E-01				
1.546E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.792E-01				
1.546E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.969E-01				
1.546E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.051E-01				
1.546E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.544E-01				
1.556E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.999E-01				
1.556E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.792E-01				
1.556E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.971E-01				
1.556E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.055E-01				
1.556E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.549E-01				
1.566E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.998E-01				
1.566E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.792E-01				
1.566E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.972E-01				
1.566E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.058E-01				
1.566E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.554E-01				
1.576E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.997E-01				
1.576E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.791E-01				
1.576E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.972E-01				
1.576E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.060E-01				
1.576E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.558E-01				
1.586E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.996E-01				
1.586E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.790E-01				
1.586E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.973E-01				
1.586E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.063E-01				

1.586E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.562E-01				
1.596E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.994E-01				
1.596E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.789E-01				
1.596E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.973E-01				
1.596E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.065E-01				
1.596E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.566E-01				
1.606E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.991E-01				
1.606E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.787E-01				
1.606E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.972E-01				
1.606E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.066E-01				
1.606E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.570E-01				
1.616E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.988E-01				
1.616E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.785E-01				
1.616E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.971E-01				
1.616E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.068E-01				
1.616E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.573E-01				
1.626E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.985E-01				
1.626E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.782E-01				
1.626E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.970E-01				
1.626E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.068E-01				
1.626E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.576E-01				
1.636E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.981E-01				
1.636E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.779E-01				
1.636E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.968E-01				
1.636E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.069E-01				
1.636E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.578E-01				
1.646E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.977E-01				
1.646E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.775E-01				

1.646E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.966E-01				
1.646E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.069E-01				
1.646E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.580E-01				
1.656E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.972E-01				
1.656E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.771E-01				
1.656E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.964E-01				
1.656E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.069E-01				
1.656E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.582E-01				
1.666E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.968E-01				
1.666E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.767E-01				
1.666E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.961E-01				
1.666E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.068E-01				
1.666E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.584E-01				
1.676E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.962E-01				
1.676E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.762E-01				
1.676E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.958E-01				
1.676E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.068E-01				
1.676E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.585E-01				
1.686E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.957E-01				
1.686E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.757E-01				
1.686E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.954E-01				
1.686E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.066E-01				
1.686E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.586E-01				
1.696E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.951E-01				
1.696E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.752E-01				
1.696E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.950E-01				
1.696E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.065E-01				
1.696E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.587E-01				

1.706E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.944E-01				
1.706E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.746E-01				
1.706E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.946E-01				
1.706E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.063E-01				
1.706E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.588E-01				
1.716E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.938E-01				
1.716E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.740E-01				
1.716E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.942E-01				
1.716E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.061E-01				
1.716E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.588E-01				
1.726E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.931E-01				
1.726E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.734E-01				
1.726E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.937E-01				
1.726E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.059E-01				
1.726E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.588E-01				
1.736E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.923E-01				
1.736E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.727E-01				
1.736E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.932E-01				
1.736E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.057E-01				
1.736E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.588E-01				
1.746E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.916E-01				
1.746E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.720E-01				
1.746E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.927E-01				
1.746E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.054E-01				
1.746E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.587E-01				
1.756E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.908E-01				
1.756E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.713E-01				
1.756E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.922E-01				

1.756E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.051E-01				
1.756E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.587E-01				
1.766E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.900E-01				
1.766E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.706E-01				
1.766E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.916E-01				
1.766E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.048E-01				
1.766E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.586E-01				
1.776E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.891E-01				
1.776E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.698E-01				
1.776E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.910E-01				
1.776E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.044E-01				
1.776E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.585E-01				
1.786E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.882E-01				
1.786E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.690E-01				
1.786E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.903E-01				
1.786E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.040E-01				
1.786E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.583E-01				
1.796E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.873E-01				
1.796E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.682E-01				
1.796E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.897E-01				
1.796E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.036E-01				
1.796E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.582E-01				
1.806E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.864E-01				
1.806E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.673E-01				
1.806E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.890E-01				
1.806E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.032E-01				
1.806E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.580E-01				
1.816E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.855E-01				

1.816E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.665E-01				
1.816E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.883E-01				
1.816E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.028E-01				
1.816E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.578E-01				
1.826E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.845E-01				
1.826E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.656E-01				
1.826E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.876E-01				
1.826E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.023E-01				
1.826E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.576E-01				
1.836E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.835E-01				
1.836E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.647E-01				
1.836E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.869E-01				
1.836E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.019E-01				
1.836E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.574E-01				
1.846E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.825E-01				
1.846E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.637E-01				
1.846E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.861E-01				
1.846E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.014E-01				
1.846E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.571E-01				
1.856E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.814E-01				
1.856E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.628E-01				
1.856E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.854E-01				
1.856E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.009E-01				
1.856E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.569E-01				
1.866E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.804E-01				
1.866E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.618E-01				
1.866E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.846E-01				
1.866E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	5.004E-01				

1.866E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.566E-01				
1.876E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.793E-01				
1.876E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.608E-01				
1.876E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.838E-01				
1.876E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.998E-01				
1.876E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.563E-01				
1.886E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.782E-01				
1.886E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.598E-01				
1.886E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.830E-01				
1.886E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.993E-01				
1.886E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.560E-01				
1.896E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.771E-01				
1.896E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.588E-01				
1.896E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.821E-01				
1.896E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.987E-01				
1.896E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.557E-01				
1.906E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.760E-01				
1.906E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.577E-01				
1.906E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.813E-01				
1.906E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.981E-01				
1.906E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.553E-01				
1.916E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.748E-01				
1.916E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.567E-01				
1.916E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.804E-01				
1.916E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.975E-01				
1.916E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.550E-01				
1.926E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.737E-01				
1.926E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.556E-01				

1.926E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.795E-01				
1.926E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.969E-01				
1.926E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.546E-01				
1.936E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.725E-01				
1.936E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.545E-01				
1.936E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.786E-01				
1.936E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.962E-01				
1.936E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.542E-01				
1.946E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.713E-01				
1.946E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.534E-01				
1.946E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.777E-01				
1.946E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.956E-01				
1.946E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.538E-01				
1.956E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.701E-01				
1.956E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.523E-01				
1.956E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.768E-01				
1.956E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.949E-01				
1.956E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.534E-01				
1.966E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.689E-01				
1.966E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.512E-01				
1.966E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.759E-01				
1.966E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.943E-01				
1.966E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.530E-01				
1.976E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.677E-01				
1.976E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.501E-01				
1.976E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.749E-01				
1.976E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.936E-01				
1.976E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.526E-01				

1.986E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.664E-01				
1.986E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.489E-01				
1.986E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.740E-01				
1.986E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.929E-01				
1.986E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.521E-01				
1.996E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.652E-01				
1.996E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.478E-01				
1.996E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.730E-01				
1.996E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.922E-01				
1.996E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.517E-01				
2.006E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.639E-01				
2.006E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.466E-01				
2.006E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.720E-01				
2.006E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.915E-01				
2.006E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.512E-01				
2.016E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.627E-01				
2.016E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.454E-01				
2.016E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.710E-01				
2.016E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.908E-01				
2.016E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.508E-01				
2.026E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.614E-01				
2.026E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.443E-01				
2.026E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.701E-01				
2.026E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.901E-01				
2.026E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.503E-01				
2.036E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.601E-01				
2.036E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.431E-01				
2.036E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.691E-01				

2.036E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.893E-01				
2.036E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.498E-01				
2.046E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.588E-01				
2.046E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.419E-01				
2.046E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.680E-01				
2.046E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.886E-01				
2.046E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.493E-01				
2.056E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.575E-01				
2.056E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.407E-01				
2.056E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.670E-01				
2.056E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.879E-01				
2.056E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.488E-01				
2.066E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.562E-01				
2.066E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.394E-01				
2.066E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.660E-01				
2.066E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.871E-01				
2.066E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.483E-01				
2.076E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.549E-01				
2.076E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.382E-01				
2.076E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.650E-01				
2.076E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.863E-01				
2.076E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.478E-01				
2.086E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.535E-01				
2.086E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.370E-01				
2.086E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.640E-01				
2.086E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.856E-01				
2.086E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.473E-01				
2.096E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.522E-01				

2.096E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.358E-01				
2.096E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.629E-01				
2.096E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.848E-01				
2.096E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.467E-01				
2.106E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.509E-01				
2.106E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.345E-01				
2.106E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.619E-01				
2.106E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.840E-01				
2.106E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.462E-01				
2.116E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.495E-01				
2.116E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.333E-01				
2.116E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.608E-01				
2.116E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.832E-01				
2.116E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.457E-01				
2.126E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.482E-01				
2.126E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.320E-01				
2.126E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.598E-01				
2.126E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.824E-01				
2.126E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.451E-01				
2.136E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.468E-01				
2.136E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.308E-01				
2.136E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.587E-01				
2.136E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.817E-01				
2.136E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.446E-01				
2.146E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.454E-01				
2.146E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.295E-01				
2.146E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.577E-01				
2.146E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.809E-01				

2.146E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.440E-01				
2.156E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.441E-01				
2.156E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.283E-01				
2.156E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.566E-01				
2.156E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.801E-01				
2.156E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.434E-01				
2.166E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.427E-01				
2.166E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.270E-01				
2.166E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.555E-01				
2.166E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.792E-01				
2.166E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.429E-01				
2.176E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.414E-01				
2.176E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.257E-01				
2.176E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.545E-01				
2.176E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.784E-01				
2.176E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.423E-01				
2.186E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.400E-01				
2.186E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.245E-01				
2.186E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.534E-01				
2.186E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.776E-01				
2.186E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.417E-01				
2.196E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.386E-01				
2.196E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.232E-01				
2.196E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.523E-01				
2.196E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.768E-01				
2.196E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.412E-01				
2.206E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.372E-01				
2.206E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.219E-01				

2.206E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.512E-01				
2.206E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.760E-01				
2.206E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.406E-01				
2.216E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.359E-01				
2.216E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.207E-01				
2.216E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.502E-01				
2.216E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.752E-01				
2.216E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.400E-01				
2.226E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.345E-01				
2.226E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.194E-01				
2.226E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.491E-01				
2.226E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.744E-01				
2.226E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.394E-01				
2.236E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.331E-01				
2.236E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.181E-01				
2.236E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.480E-01				
2.236E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.735E-01				
2.236E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.388E-01				
2.246E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.317E-01				
2.246E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.169E-01				
2.246E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.469E-01				
2.246E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.727E-01				
2.246E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.382E-01				
2.256E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.304E-01				
2.256E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.156E-01				
2.256E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.459E-01				
2.256E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.719E-01				
2.256E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.376E-01				

2.266E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.290E-01				
2.266E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.143E-01				
2.266E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.448E-01				
2.266E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.711E-01				
2.266E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.370E-01				
2.276E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.276E-01				
2.276E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.131E-01				
2.276E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.437E-01				
2.276E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.702E-01				
2.276E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.364E-01				
2.286E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.262E-01				
2.286E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.118E-01				
2.286E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.426E-01				
2.286E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.694E-01				
2.286E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.358E-01				
2.296E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.249E-01				
2.296E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.105E-01				
2.296E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.415E-01				
2.296E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.686E-01				
2.296E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.352E-01				
2.306E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.235E-01				
2.306E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.092E-01				
2.306E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.405E-01				
2.306E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.677E-01				
2.306E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.346E-01				
2.316E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.221E-01				
2.316E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.080E-01				
2.316E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.394E-01				

2.316E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.669E-01				
2.316E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.340E-01				
2.326E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.207E-01				
2.326E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.067E-01				
2.326E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.383E-01				
2.326E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.661E-01				
2.326E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.334E-01				
2.336E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.194E-01				
2.336E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.054E-01				
2.336E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.373E-01				
2.336E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.653E-01				
2.336E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.328E-01				
2.346E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.180E-01				
2.346E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.042E-01				
2.346E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.362E-01				
2.346E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.644E-01				
2.346E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.322E-01				
2.356E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.166E-01				
2.356E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.029E-01				
2.356E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.351E-01				
2.356E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.636E-01				
2.356E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.316E-01				
2.366E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.153E-01				
2.366E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.017E-01				
2.366E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.340E-01				
2.366E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.628E-01				
2.366E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.310E-01				
2.376E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.139E-01				

2.376E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	8.004E-01				
2.376E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.330E-01				
2.376E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.619E-01				
2.376E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.304E-01				
2.386E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.125E-01				
2.386E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.992E-01				
2.386E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.319E-01				
2.386E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.611E-01				
2.386E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.297E-01				
2.396E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.112E-01				
2.396E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.979E-01				
2.396E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.309E-01				
2.396E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.603E-01				
2.396E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.291E-01				
2.406E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.098E-01				
2.406E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.967E-01				
2.406E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.298E-01				
2.406E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.595E-01				
2.406E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.285E-01				
2.416E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.085E-01				
2.416E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.954E-01				
2.416E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.287E-01				
2.416E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.587E-01				
2.416E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.279E-01				
2.426E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.072E-01				
2.426E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.942E-01				
2.426E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.277E-01				
2.426E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.578E-01				

2.426E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.273E-01				
2.436E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.058E-01				
2.436E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.930E-01				
2.436E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.266E-01				
2.436E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.570E-01				
2.436E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.267E-01				
2.446E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.045E-01				
2.446E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.917E-01				
2.446E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.256E-01				
2.446E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.562E-01				
2.446E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.261E-01				
2.456E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.031E-01				
2.456E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.905E-01				
2.456E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.246E-01				
2.456E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.554E-01				
2.456E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.255E-01				
2.466E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.018E-01				
2.466E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.893E-01				
2.466E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.235E-01				
2.466E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.546E-01				
2.466E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.249E-01				
2.476E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	9.005E-01				
2.476E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.881E-01				
2.476E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.225E-01				
2.476E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.538E-01				
2.476E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.243E-01				
2.486E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.992E-01				
2.486E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.868E-01				

2.486E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.215E-01				
2.486E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.530E-01				
2.486E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.237E-01				
2.496E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.979E-01				
2.496E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.856E-01				
2.496E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.204E-01				
2.496E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.522E-01				
2.496E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.231E-01				
2.506E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.965E-01				
2.506E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.844E-01				
2.506E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.194E-01				
2.506E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.514E-01				
2.506E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.225E-01				
2.516E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.952E-01				
2.516E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.832E-01				
2.516E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.184E-01				
2.516E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.506E-01				
2.516E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.219E-01				
2.526E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.939E-01				
2.526E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.820E-01				
2.526E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.174E-01				
2.526E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.498E-01				
2.526E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.213E-01				
2.536E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.926E-01				
2.536E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.808E-01				
2.536E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.164E-01				
2.536E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.490E-01				
2.536E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.207E-01				

2.546E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.913E-01				
2.546E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.796E-01				
2.546E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.153E-01				
2.546E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.482E-01				
2.546E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.201E-01				
2.556E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.901E-01				
2.556E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.785E-01				
2.556E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.143E-01				
2.556E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.474E-01				
2.556E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.195E-01				
2.566E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.888E-01				
2.566E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.773E-01				
2.566E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.133E-01				
2.566E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.467E-01				
2.566E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.189E-01				
2.576E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.875E-01				
2.576E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.761E-01				
2.576E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.123E-01				
2.576E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.459E-01				
2.576E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.183E-01				
2.586E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.862E-01				
2.586E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.750E-01				
2.586E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.114E-01				
2.586E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.451E-01				
2.586E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.178E-01				
2.596E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.850E-01				
2.596E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.738E-01				
2.596E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.104E-01				

2.596E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.443E-01				
2.596E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.172E-01				
2.606E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.837E-01				
2.606E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.726E-01				
2.606E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.094E-01				
2.606E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.436E-01				
2.606E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.166E-01				
2.616E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.825E-01				
2.616E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.715E-01				
2.616E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.084E-01				
2.616E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.428E-01				
2.616E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.160E-01				
2.626E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.812E-01				
2.626E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.703E-01				
2.626E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.074E-01				
2.626E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.420E-01				
2.626E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.154E-01				
2.636E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.800E-01				
2.636E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.692E-01				
2.636E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.065E-01				
2.636E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.413E-01				
2.636E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.149E-01				
2.646E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.787E-01				
2.646E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.681E-01				
2.646E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.055E-01				
2.646E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.405E-01				
2.646E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.143E-01				
2.656E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.775E-01				

2.656E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.669E-01				
2.656E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.046E-01				
2.656E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.398E-01				
2.656E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.137E-01				
2.666E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.763E-01				
2.666E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.658E-01				
2.666E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.036E-01				
2.666E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.390E-01				
2.666E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.132E-01				
2.676E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.751E-01				
2.676E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.647E-01				
2.676E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.027E-01				
2.676E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.383E-01				
2.676E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.126E-01				
2.686E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.738E-01				
2.686E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.636E-01				
2.686E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.017E-01				
2.686E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.376E-01				
2.686E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.120E-01				
2.696E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.726E-01				
2.696E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.625E-01				
2.696E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	6.008E-01				
2.696E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.368E-01				
2.696E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.115E-01				
2.706E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.714E-01				
2.706E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.614E-01				
2.706E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.998E-01				
2.706E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.361E-01				

2.706E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.109E-01				
2.716E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.702E-01				
2.716E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.603E-01				
2.716E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.989E-01				
2.716E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.354E-01				
2.716E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.104E-01				
2.726E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.691E-01				
2.726E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.592E-01				
2.726E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.980E-01				
2.726E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.346E-01				
2.726E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.098E-01				
2.736E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.679E-01				
2.736E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.581E-01				
2.736E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.971E-01				
2.736E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.339E-01				
2.736E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.093E-01				
2.746E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.667E-01				
2.746E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.570E-01				
2.746E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.962E-01				
2.746E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.332E-01				
2.746E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.087E-01				
2.756E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.655E-01				
2.756E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.560E-01				
2.756E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.953E-01				
2.756E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.325E-01				
2.756E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.082E-01				
2.766E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.644E-01				
2.766E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.549E-01				

2.766E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.944E-01				
2.766E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.318E-01				
2.766E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.076E-01				
2.776E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.632E-01				
2.776E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.538E-01				
2.776E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.935E-01				
2.776E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.311E-01				
2.776E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.071E-01				
2.786E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.621E-01				
2.786E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.528E-01				
2.786E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.926E-01				
2.786E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.304E-01				
2.786E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.066E-01				
2.796E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.609E-01				
2.796E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.518E-01				
2.796E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.917E-01				
2.796E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.297E-01				
2.796E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.060E-01				
2.806E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.598E-01				
2.806E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.507E-01				
2.806E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.908E-01				
2.806E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.290E-01				
2.806E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.055E-01				
2.816E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.587E-01				
2.816E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.497E-01				
2.816E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.899E-01				
2.816E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.283E-01				
2.816E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.050E-01				

2.826E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.575E-01				
2.826E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.487E-01				
2.826E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.891E-01				
2.826E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.276E-01				
2.826E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.045E-01				
2.836E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.564E-01				
2.836E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.476E-01				
2.836E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.882E-01				
2.836E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.270E-01				
2.836E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.040E-01				
2.846E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.553E-01				
2.846E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.466E-01				
2.846E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.873E-01				
2.846E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.263E-01				
2.846E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.034E-01				
2.856E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.542E-01				
2.856E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.456E-01				
2.856E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.865E-01				
2.856E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.256E-01				
2.856E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.029E-01				
2.866E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.531E-01				
2.866E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.446E-01				
2.866E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.856E-01				
2.866E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.250E-01				
2.866E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.024E-01				
2.876E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.520E-01				
2.876E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.436E-01				
2.876E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.848E-01				

2.876E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.243E-01				
2.876E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.019E-01				
2.886E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.509E-01				
2.886E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.426E-01				
2.886E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.840E-01				
2.886E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.236E-01				
2.886E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.014E-01				
2.896E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.499E-01				
2.896E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.416E-01				
2.896E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.831E-01				
2.896E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.230E-01				
2.896E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.009E-01				
2.906E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.488E-01				
2.906E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.407E-01				
2.906E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.823E-01				
2.906E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.223E-01				
2.906E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	3.004E-01				
2.916E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.477E-01				
2.916E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.397E-01				
2.916E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.815E-01				
2.916E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.217E-01				
2.916E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.999E-01				
2.926E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.467E-01				
2.926E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.387E-01				
2.926E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.807E-01				
2.926E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.210E-01				
2.926E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.994E-01				
2.936E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.456E-01				

2.936E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.378E-01				
2.936E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.799E-01				
2.936E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.204E-01				
2.936E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.989E-01				
2.946E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.446E-01				
2.946E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.368E-01				
2.946E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.791E-01				
2.946E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.198E-01				
2.946E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.985E-01				
2.956E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.435E-01				
2.956E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.359E-01				
2.956E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.783E-01				
2.956E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.192E-01				
2.956E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.980E-01				
2.966E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.425E-01				
2.966E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.349E-01				
2.966E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.775E-01				
2.966E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.185E-01				
2.966E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.975E-01				
2.976E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.415E-01				
2.976E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.340E-01				
2.976E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.767E-01				
2.976E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.179E-01				
2.976E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.970E-01				
2.986E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.404E-01				
2.986E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.330E-01				
2.986E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.759E-01				
2.986E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.173E-01				

2.986E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.966E-01				
2.996E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.394E-01				
2.996E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.321E-01				
2.996E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.751E-01				
2.996E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.167E-01				
2.996E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.961E-01				
3.000E+02	1.088E+01	3.250E+00	-3.021E+00	2.292E-01	4.000E-01
1.000E+00	8.390E-01				
3.000E+02	1.088E+01	3.375E+00	-3.021E+00	3.542E-01	4.000E-01
1.000E+00	7.317E-01				
3.000E+02	1.088E+01	3.575E+00	-3.021E+00	5.542E-01	4.000E-01
1.000E+00	5.748E-01				
3.000E+02	1.088E+01	3.825E+00	-3.021E+00	8.042E-01	4.000E-01
1.000E+00	4.164E-01				
3.000E+02	1.088E+01	4.075E+00	-3.021E+00	1.054E+00	4.000E-01
1.000E+00	2.959E-01				