PHYSICAL MODELING OF GEP STACK HEIGHT AT B. L. ENGLAND STATION, UNITS 1, 2 AND 3 ATLANTIC CITY ELECTRIC COMPANY

by

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FLUID MECHANICS AND WIND ENGINEERING PROGRAM

COLLEGE OF ENGINEERING

COLORADO STATE UNIVERSITY
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LIST OF SYMBOLS

Symbol	Definition	Dimension
D	Stack or flue diameter	L
H_B	Height of building	L
H_g	GEP stack height	
H_s	Stack height	L
L	Lesser dimension (height or projected width)	L
N	Power law exponent	--
Q	Pollutant emission rate	ppm L^3T^{-1}
R_e	Reynolds number	--
R_{e_B}	Building Reynolds number $R_{e_B} = \frac{U_B H_B}{\nu_a}$	--
U	Wind speed	LT^{-1}
U_B	Wind speed at building height	LT^{-1}
U_s	Mean speed of ambient wind at H_s	LT^{-1}
U_*	Friction velocity	LT^{-1}
W_s	Speed of stack gas emission	LT^{-1}
g	Gravitational acceleration	LT^{-2}
k	von Karmán constant	--
x,y,z	Cartesian coordinates	L
z_o	Roughness length	L
ρ_s	Density of stack gas	ML^{-3}
ρ_a	Density of ambient air	ML^{-3}
ν_a	Kinematic viscosity of ambient air	L^2T^{-1}
ν_s	Kinematic viscosity of the effluent	L^2T^{-1}
$\Delta\gamma$	$(\rho_a-\rho_s)g$ - difference in specific weight of ambient air and stack gas	$ML^{-2}T^{-2}$
δ	Boundary layer thickness	L

Symbol	Definition	Dimension
χ	Volumetric concentration of pollutant	ppm
$( )_m$	Model value	--
$( )_p$	Prototype value	--

Subscripts

a	Ambient
B	building
m	Model
p	prototype
s	stack
T	total

1. INTRODUCTION

1.1 Statement of the Existing Situation

The B. L. England Station (BLES) is located at Beesley's Point, New Jersey, about 0.9 km west of the Garden State Parkway and on the southern shore of the Great Egg Harbor Bay near the Tuckahoe River.

The BLES consists of three steam electrical generating units with total generating capacity of 447 MW (127, 160 and 160 MW, respectively). Units 1 and 2 have coal-fired cyclone furnaces and Unit 3 has an oil-fired furnace. Each unit is constructed with an independent free-standing 250-ft-high stack. Each stack emits sulfur dioxide at a rate of 850, 1050 and 220 gram SO_2/sec, respectively, when operating at full capacity (400, 400, 55 gram SO_2/sec under minimum load operation, which is taken as 40 percent load).

Atlantic City Electric Company (ACE), which owns and operates the BLES Units 1, 2, and 3, has measured high values of 3-hr and 24-hr average ground-level concentrations of sulfur dioxide at Somers Point Marina (~N18°E, 2.7 km from the BLES). These concentrations occur infrequently during the spring (April), summer (July), and fall (November) for a total of approximately 100 hrs per year, under certain persistent meteorological conditions of high wind speed from a constant direction. These conditions can be expected to last up to 48 hrs at a time and the recorded ground-level concentrations are near, or exceed, federal-state imposed air-quality standards.

To correct the existing situation, ACE is investigating the engineering, economic, and regulatory aspects of installing a Good-Engineering-Practice (GEP) stack at the BLES facility. The proposed GEP stack is a multiple-flue design of free-standing reinforced concrete

with each unit having its own flue. The potential stack configurations are 1) a three-flue stack serving Units 1, 2, and 3, and 2) a two-flue stack serving Units 1 and 2 with the existing stack for Unit 3.

Stone & Webster Engineering Corporation (SWEC) of Cherry Hill, New Jersey, was contracted to provide engineering consults and solutions for the excessive SO_2 concentrations problem of the BLES. Subsequently, the Fluid Mechanics and Wind Engineering Program of Colorado State University was subcontracted to provide a wind-tunnel study of fluid modeling of the BLES.

1.2 Scope of Work

Section 123 of the Clean Air Act Amendments (40 CFR 51) of 1977 defines GEP stack height as "the height necessary to insure that emissions from the stack do not result in excessive concentrations of any air pollutant in the immediate vicinity of the source as a result of atmospheric downwash, eddies and wakes which may be created by the source itself, nearby structures or nearby terrain obstacles."

One notices that "excessive concentration" means a maximum ground-level concentration 1) due to emissions from a stack due in part or whole to downwash, wakes or eddy effects produced by nearby structures or terrain features which individually is at least 40 percent in excess of the maximum concentrations experienced in the absence of such downwash, wakes, or eddy effects, and 2) which contributes to a total concentration due to emissions from all sources that is greater than a NAAQS or an applicable PSD increment.

A commonly accepted rule to determine the GEP stack height is:

$$H_g = H + 1.5\ L \qquad (1.1)$$

where: H_g = GEP stack height measured from the ground-level elevation at the base of the stack.

H_s = height of nearby structure measured from the ground-level elevation at the base of the stack.

L = lesser dimension (height or projected width) of nearby structures.

According to 40 CFR 51.1(ii), fluid modeling may be used to determine a GEP stack height which does not result in excessive pollutant concentration. In addition, the GEP stack height determined from the general engineering rule (Equation 1.1) is subject to a fluid-modeling study if the control agency believes a demonstration is necessary.

Hence, the purposes of this study are:

1) Fluid modeling of concentrations for existing stack configuration.
2) Screening tests to determine a GEP stack height from the following:
   a) three-flue stack,
   b) two-flue stack with existing stack for Unit 3,
   c) identification of wind direction that maximizes downwash effects, and
   d) orientation of flues relative to wind direction that maximizes downwash effects.

The ultimate goal is to perform fluid modeling to determine a GEP stack height needed to prevent excessive pollutant concentration in the vicinity of the BLES.

The following documents are used as guidances (technical standards) for fluid modeling GEP studies:

1. Draft Guideline for Determination of Good Engineering Practice Stack Height (Technical Support Document for the Stack Height Regulation) (with addenda), U.S. EPA, November 1984 (hereafter referrred to as "Guideline 1").
2. Guideline for Use of Fluid Modeling to Determine Good Engineering Practice Stack Height. EPA-450/4-81-003, July 1981 (hereafter also referred to as the "Guideline 1").
3. Guideline for Fluid Modeling of Atmospheric Diffusion, U.S. EPA, ESRL, EPA-600/8-81-009, April 1981 (hereafter referred to as the "Guideline 2").
4. Determination of Good-Engineering-Practice Stack Height--A Fluid Model Demonstration Study for a Power Plant, EPA, ESRL, EPA-600/3-83-024, April 1983 (hereafter referred to as the "Demonstration Study").

It was understood by CSU that full documentation of concentration profiles are to be made for a stack height of 117.3 m (calculated from Equation 1.1) regardless of the outcome of optimal GEP stack height obtained from fluid modeling.

1.3 Introduction to the Text

The remainder of this report consists of five sections. Section 2 briefly reviews the similarity criteria for atmospheric dispersion and displays the simulation techniques employed in the present study. Section 3 documents the experimental facilities and instrumentation which include the wind tunnel, the BLES model, turbulence and concentration measurements. A further detailed description is given in Appendix A. Evaluation of the simulated boundary layer is presented in Section 4. The simulated boundary layer is compared to the planetary

boundary layer evaluating the mean velocity profile, the turbulence characteristics, and the atmospheric dispersion comparability. Section 5 describes the determination for the GEP stack height. The selection of GEP stack height is based on the 40 percent excessive concentration criterion measured from dispersions with and without the BLES building. Section 6 summarizes the present study and gives recommendations for application.

Complete computer printouts of all test runs of measured concentrations are contained in Appendix B.

Simulation of plume rise with Froude number scaling is presented in Appendix C. Results of all test runs with Froude number scaling are contained in Appendix D.

2. SIMULATION OF ATMOSPHERIC DISPERSION

2.1 Simulation of Atmospheric Motion

The basic equations governing atmospheric and plume motions are the conservation of mass, momentum and energy. A complete set of requirements for similarity between the wind tunnel and the prototype can be obtained from dimensionless analysis as given by Cermak (1975). Since it is not possible to simultaneously satisfy all the requirements in the model and prototype, Guideline 2 specified five parameters in addition to geometric similarity that are relevant to modeling atmospheric flow. These are Rossby number, Peclet number, Reynolds-Schmidt product, Froude number, and Reynolds number.

The Rossby number, R_o, is a quantity which indicates the effect of the Coriolis force on the flow field. In the wind tunnel equal Rossby numbers between model and prototype cannot be achieved. However, the effect of the earth rotation becomes insignificant if the distance scale is small. Snyder (1972) suggested a cutoff point at 5 km for diffusion study. The maximum downstream distance from the source that was modeled in the present study is 4.8 km. Hence, the requirement of equal Rossby numbers is relaxed.

The Peclet number and Reynolds-Schmidt product are Reynolds number dependent and are indicators of the molecular diffusivity (heat and mass diffusivity, respectively). According to Guideline 2, matching the Peclet number or Reynolds-Schmidt product of the prototype in the model is unimportant if the flow exhibits Reynolds number independence.

The Froude number indicates the square root of the ratio of inertial to buoyancy forces. A large value of the Froude number implies that buoyancy forces are small compared to inertial forces. There are

two Froude numbers that must be considered: the Froude number of the atmospheric flow and the stack Froude number. The present study was conducted to simulate dispersion in a thermally neutral stratified boundary-layer flow. Therefore, the Froude number of the atmospheric flow to be simulated must be infinite. It is not possible to simulate an infinite Froude number in the laboratory. However, for practical purposes, a relative large Froude number (Fr = 67) achieved in the wind tunnel can certainly represent a good simulation of the Froude number in the atmospheric flow. The discussion of the stack Froude number is deferred to the next section.

The Reynolds number is the ratio of inertial to viscous forces. For dispersion study equal Reynolds number for model and prototype is not possible to achieve. However, this inequality is not a serious limitation. Golden, as cited by Halitsky et al. (1963), found that for flow about a cube for Reynolds number above 11,000, there was no change in concentration measurements. Guideline 2 also suggested that the pattern of turbulent flow for sharp-edged buildings is similar at all Reynolds numbers above 11,000.

The building Reynolds number, $Re_B = U_B H_B / \nu_a$, for the present study yields

$$Re_B = \frac{(1.50)(0.15)}{1.38 \times 10^{-5}} = 16{,}355 > 11{,}000$$

which is sufficiently large to insure Reynolds number independence for flow over the sharp-edged building of the BLES.

2.2 Simulation of Plume Rise

Exact simulation of the plume rise and its dispersion requires that the following set of parameters be equal in the model and prototype:

$$\frac{W_s}{U_s}, \frac{\rho_s}{\rho_a}, \frac{D}{L}, \frac{U_s L}{\nu_a}, \frac{W_s D}{\nu_s}, \frac{\rho_a W_s^2}{\Delta\gamma D},$$

where

W_s: speed of stack gas emission,

U_s: mean speed of ambient wind at height of stack H_s,

ρ_s: density of stack gas,

ρ_a: density of ambient air,

$\Delta\gamma$: $(\rho_a-\rho_s)g$ - difference in specific weight of ambient air and stack gas,

ν_a: kinematic viscosity of ambient air,

ν_s: kinematic viscosity of the effluent,

D : stack or flue diameter, and

L : characteristic length scale.

However, it would not be practical if one attempts to match all these parameters in wind-tunnel simulation. For instance, a simultaneous simulation of ρ_s/ρ_a, W_s/U_s and $\rho_a W_s^2/\Delta\gamma D$ will usually introduce a large scale ratio and possibly sacrifice the requirement of Reynolds number independence. Therefore, most investigators tend to evaluate the importance of each parameter in their simulation and therefore relax some criteria to achieve their goals. Discussions on which parameter should be relaxed are diverse and yet no definitive conclusion has been reached. A common practice among the researchers is to exaggerate the density difference or the stack Froude number. Guideline 2 does not specify which parameter should be exaggerated but suggests that matching all parameters is important if the Froude number is less than four. However, the Demonstration Study recommended that the Froude number can be ignored but density and effluent-to-wind velocity ratio

should be kept the same in model and prototype. Accordingly, these two criteria were employed in the present study.

The value of the effluent Reynolds number of the model stack was approximately 2300 for minimum load plant operating condition. This value is less than 15,000 which is specified by Guideline 2 as the critical Reynolds number to be exceeded. To promote turbulence of the stack effluent, a thin serrated ring (see Figure 3.3b) was inserted 10 stack-diameters upstream of the stack exit to ensure fully turbulent effluent flow.

In summary, the following scaling criteria were applied for the neutral boundary-layer simulation:

1. $Re = \frac{U_s H_s}{\nu_a} > 11{,}000$,

2. $\left(\frac{\rho_s}{\rho_a}\right)_m = \left(\frac{\rho_s}{\rho_a}\right)_p$,

3. $\left(\frac{W_s}{U_s}\right)_m = \left(\frac{W_s}{U_s}\right)_p$,

4. Similar velocity and turbulence profiles upwind, and

5. Geometric similarity.

3. EXPERIMENTAL FACILITIES AND INSTRUMENTATION

3.1 The Wind-Tunnel Facility

The present study was conducted in the Meteorological Wind Tunnel (MWT) of the Fluid Dynamics and Diffusion Laboratory (FDDL) at Colorado State University. Plan and elevation views of this tunnel are shown in Figure 3.1.

The MWT was designed specifically to model atmospheric boundary-layer flow. The tunnel is a closed circuit facility with a 9-to-1 contraction ratio driven by a 400 HP variable-pitch, variable-speed propeller. The test section is 27 m in length and nominally 1.8 m square. The test section walls diverge approximately 2.5 cm/3 m, and the roof is adjustable to maintain a zero pressure gradient along the test section. The blockage created by the model was less than 5 percent of the tunnel cross section. Hence, it was not necessary to adjust the roof to compensate for the blockage effect. Though the tunnel is capable of simulating thermally stratified planetary boundary layers, all the experiments included in this report were performed with a neutral boundary-layer stratification. Design and operation of the MWT are described in detail by Plate and Cermak (1963).

The turbulent boundary layer was tripped at the entrance section of the MWT with a 3.8 cm high sawtooth vortex generator and allowed to develop over the long test section with certain roughness (smooth Masonite with 0.635 cm holes and 0.635 cm diameter x 1.27 cm long dowels placed in a 5 cm x 20 cm pattern). In addition, four evenly spaced 1.8 m tall spires were installed at the tunnel entrance to create the desired atmospheric boundary layer within the test section.

3.2 The Model

A circular area about the BLES, 457.2 m in diameter, was modeled on a scale of 1:300 for use in the wind-tunnel GEP tests. The model was constructed in two configurations:

1) The existing station facilities, as depicted in previously supplied plant-site drawing and photographs.
2) A modified station-facility incorporating the proposed ductwork and three-flue stack contained in SWEC drawings #15163-FM-1A-1 and 15163-FM-1B-1.

The model for the existing facilities was centered about the stack for Unit 2. The center location was subsequently moved 21.5 cm (64.5 m) SE (135°) of Stack 2 and thence 8.1 cm (24.3 m) NE (45°), so that the proposed new stack remained on the tunnel centerline for GEP tests in all wind directions.

All parts of the models--except the stacks--were fabricated within the FDDL from wooden and styrofoam materials and in the detail necessary to simulate prototype wind patterns around the BLES. Boiler facilities, precipitators, ducting and generator enclosures, coal storage/handling facilities, bulk storage tanks, all other significant administration/ maintenance buildings and related structures within the defined circular area were constructed in the model. The abutted units were removable to facilitate testing with and without the building.

All stacks were machined from brass and acrylic materials at the ERC (Engineering Research Center, Colorado State University, Fort Collins, Colorado) Machine Shop, to insure accurate modeling of critical internal dimensions of the flues. The three-flue stack, tapering from 5.50 cm (16.5 m) at the base to 4.80 cm (14.4 m) at the top was also

partially segmented. The lower 10.2 cm (30.6 m) of the stack was constructed from 5.1 cm (15.3 m) and alternate 1.27 cm (3.81 m) interlocking rings which permitted decreasing the stack height for testing at heights lower than 39.11 cm (117.3 m). Similar segments also permitted extending the stack up to 61 m above the GEP height. The individual flues extended 1.37 cm (4.11 m) beyond the stack shell. All specific flue diameters and stack heights are contained in tables elsewhere in the report.

The modeled structures were attached to a 1.52 m portable turntable (1.52 m in diameter), which facilitated simulation of multiple wind directions. The model was oriented to 45° (plant north) and the turntable indexed to readily identify wind direction. Photographs of the BLES model in the MWT are presented as Figures 3.2 and 3.3.

Figure 3.4 provides documentation in the form of a schematic drawing of the entire test section length, which includes: spire and trip location, upwind roughness, turntable location, downwind roughness and pertinent dimensions.

3.3 The Velocity Measurements

Measurements of mean velocity, turbulence intensity and turbulent shear-stress profiles were obtained with TSI Model 1053B constant-temperature anemometers in conjunction with Model 1243-20 boundary-layer hot-film X-probe (cross-flow style). Calibrations were performed with a TSI Model 1125 calibrator. The reference velocities for calibration were obtained by monitoring the differential pressure through an MKS Baratron capacitance manometer (Model 77H-30). Typical calibration curves are shown in Figure 3.5.

A Datametrics Model 800LV linear flowmeter with probe was used to monitor the reference velocity in the wind tunnel. The probe was placed at the edge of the boundary layer (1.1 times the boundary-layer thickness) at a fixed point (1 m downwind from the model) in the MWT throughout all measurements. The tunnel was set at various speeds according to the hot-film calibration results. An HP-2401 Integrating Digital Voltmeter was used to determine the Datametrics reading by integrating the signals over a 100-second interval. Hence, a calibration curve was obtained between the wind speed and the Datametrics reading. This curve then served as a reference for the mean wind speed during the dispersion measurements. The tunnel speed was adjusted and the integrations repeated until the desired setting was obtained within a ±2 percent tolerance throughout all measurements.

3.4 The Concentration Measurements

3.4.1 General

Concentration data obtained in the present study included ground-level samples, a horizontal array of samples elevated above the ground, and an array of samples along the center of the tunnel in the vertical direction. A total of 126 small ports (0.16 cm ID, Figure 3.6a) were constructed on the floor. An interface board (Figure 3.6b) served as a connection between the ground samplers and the tracer sampling system (Figure 3.6c) provided selection of ground samplers for each measurement. An adjustable sampling rake (Figure 3.6d) was employed for the measurements of lateral and vertical concentration profiles.

For each concentration measurement, up to 42 samples were simultaneously drawn in a period of two minutes to a 50-sample collection system. Two samplers were employed to monitor the level of

background concentration. The sample draw rate was set to 1.2 cc/s which results in a draw velocity of 60 cm/s. The collection system is composed of fifty, 30 cc air-tight syringes mounted between two circular aluminum plates. A variable-speed motor raises a third plate which lifts the plungers of all 50 syringes simultaneously. Syringes were completely flushed to prevent residual concentrations accumulated from earlier runs before any sample was taken. The sampler was periodically calibrated to insure proper function of every check valve and tubing assembly.

3.4.2 Gas Chromatograph

A Hewlett-Packard Model 5700A gas chromatograph (GC) with flame ionization detector was used to determine the mean concentration of scalar tracers. The flame ionization detector functions on the principle that a DC voltage on a collector electrode is proportional to a charge produced by charged particles when organics burn in a hydrogen/air flame. Air samples tagged with three tracer components (methane, ethane and propane) were carried into a combustion column by an inert carrier gas, nitrogen. Tracers arrived at the flame at separate times due to the diffusive properties of different hydrocarbon mixtures in the column. The DC voltage output from the electrode was amplified by an electrometer and fed to a Hewlett-Packard Model 3380 integrator. Separate peaks on the integrator output can be identified as contents of different tracer gases. Flow rates of auxiliary gases (air, hydrogen and nitrogen) were selected to yield a maximum sensitivity of the instrument. Zero drift of the gas chromatograph due to the impurities in the carrier gas was corrected by subtracting the background flow baseline values.

The gas chromatograph can measure samples with sensitivity down to picogram (10^{-12}) quantities. It was calibrated with a certified methane-ethane mixture of known concentration every four hours during the experiment. The maximum error expected from the gas chromatograph was found to be less than 0.12 percent.

A nominal 10 percent methane, 5.33 percent ethane and 3.63 percent propane tracer in helium and nitrogen mixture was released through Stack 1, 2 and 3 respectively. The required gas mixtures were balanced to meet the desired density ratios by Scientific Gas Products, Inc., Longmont, Colorado. Each tracer was analyzed and certified to be accurate within ±2 percent.

3.4.3 Test Procedure

The procedure for analyzing air samples from the tunnel is as follows: 1) a 2 cc sample volume drawn from the wind tunnel is introduced into the Flame Ionization Detector, 2) the output from the electrometer (in microvolts) is entered into the HP-3380 Integrator, 3) the output signal is analyzed by the HP-3380 to obtain the proportional amount of hydrocarbons present in the sample, 4) the record is integrated, and the methane, ethane, or propane concentration, as appropriate, is determined, 5) a summary of the integrator analysis (gas retention time and integrated area (μv-s) is printed out on the integrator at the wind tunnel, 6) the integrated (raw) values for each tracer are entered into an HP-1000 mini-computer along with pertinent run parameters, and 7) the computer program converts the raw data into a full-scale SO_2 concentration.

3.4.4 Data Reduction

Concentration data obtained in the wind tunnel may be related to those in the prototype through the nondimensional concentration coefficient, $K_c = \chi UL^2/Q$, where

χ = volumetric concentration of pollutant (ppm, parts tracer gas per million parts air),

U = reference wind speed (LT^{-1}),

L = characteristic length (L), and

Q = pollutant emission rate (ppm L^3T^{-1}) .

The relation between prototype and model concentration beyond a few diameters from the source is thus

$$\chi_p = \chi_m \left(\frac{U_m}{U_p}\right)\left(\frac{L_m}{L_p}\right)^2 \left(\frac{Q_p}{Q_m}\right)$$

The concentration data can be reduced in two different formats for comparison. Firstly, the data can be reduced in a format, as adopted in the present study, consistent with the Demonstration Study, $\chi U_s/Q$, i.e.,

$$\frac{\chi_p U_{sp}}{Q_p}\left(\frac{1}{m^2}\right) = \frac{(RAW-BG)(\mu v\cdot s)}{S\cdot S(ppm)} \cdot \frac{CAL.FAC(ppm/\mu v\cdot s)}{(S\cdot F)^2} \cdot \frac{U_{sm}(m/s)}{Q_m(m^3/s)}$$

Secondly, the data may be reduced in a format consistent with Guideline 2, χ_p, i.e.,

$$\chi_p\left(\frac{gSO_2}{m^3 air}\right) = \frac{(RAW-BG)(\mu v\cdot s)}{S\cdot S\left(\frac{\ell\ tracer}{10^6\ell\ air}\right)} \cdot \frac{CAL.FAC\left(\frac{\ell\ tracer}{10^6\ell\ tracer}\ \frac{1}{\mu v\cdot s}\right)}{(S\cdot F)^2}$$

$$\cdot \frac{U_{sm}(m/s)}{U_{sp}(m/s)} \cdot \frac{Q_p(gSO_2/s)}{Q_m(m^3 air/s)} \quad ,$$

where:

(RAW-BG) : integrator values of a tracer sample minus a background reading measured in microvolts · seconds,

CAL.FAC : calibration factor of the gas chromatograph which provides a baseline to compensate for changes in operation and also compensate for the use of tracers with varying molecular weights,

S·F : prototype-to-model length scale,

S·S : source strength of effluent,

U_{sm} : stack-height velocity of the wind-tunnel test,

U_{sp} : stack height velocity of the prototype,

Q_m : volumetric flow of the tracer through a model stack, and

Q_p : emission rate from the prototype stack.

Total SO_2 concentration at each sampler location was summarized and presented in addition to the foregoing calculation made for each stack output. The total "dimensional" concentration coefficient, $\chi_T U/Q_T$, is evaluated as

$$\frac{\chi_T U_{sp}}{Q_T} = \frac{\chi_{1p} U_{sp}}{Q_{1p}} \frac{Q_{1p}}{Q_T} + \frac{\chi_{2p} U_{sp}}{Q_{2p}} \frac{Q_{2p}}{Q_T} + \frac{\chi_{3p} U_{sp}}{Q_{3p}} \frac{Q_{3p}}{Q_T} \quad ,$$

where: $Q_T = Q_{1p} + Q_{2p} + Q_{3p}$,

$\chi_T = \chi_{1p} + \chi_{2p} + \chi_{3p}$, and

1, 2, 3 indicates quantities corresponding to Stack 1, 2 and 3, respectively.

4. EVALUATION OF SIMULATED BOUNDARY LAYER

4.1 Boundary-Layer Simulation

Mean velocity and turbulence intensity profiles were measured at five different locations in the test section, namely, x = 0, 3, 6, 9 and 12 m downwind of the model location. The turbulent boundary layer was fully developed before reaching the model location. Mean velocity profiles observed at different locations show no sign of continuous growth of the boundary layer. Figure 4.1 presents the mean velocity profiles measured at all five locations. The mean velocity profile is well characterized by a 0.15 power law with a boundary-layer thickness (δ) of 1.00 m (300 m). This is similar to that expected at the site. The mean velocity profiles are presented in a semi-logarithmic plot to determine the roughness length and surface shear stress in Figure 4.2. The roughness length, z_o, was obtained by regression from data which represent the lowest 25 cm (75 m) of the simulated boundary layer. The value of z_o was found to be 0.0105 cm in the model (3 cm full scale) which is realistic for the site. The frictional velocity, U_*, was found to be 8.3 cm/sec based on the logarithmic velocity profile, $U(\delta) = U_*/k\ell n(z+z_o/z_o)$, where k is the von Karmán constant. The longitudinal and vertical components of turbulence intensity are shown as functions of normalized height, z/δ, in Figure 4.3. The ratio of the vertical to the longitudinal turbulence intensity in the surface layer was suggested as 0.5 by Guideline 2 and Counihan (1975). Figure 4.3 shows the ratio was approximately 0.5 except near the ground. Turbulence levels are appropriate for the site. Figure 4.4 displays the shear stress normalized by the surface shear stress determined from the mean velocity profiles. Lateral profiles of mean velocity and longitudinal turbulence

intensity were measured at $z/\delta = 0.1$ at two downwind locations, x = 0 m and 9 m (Figure 4.5). The test section was affected by the tunnel boundaries only within the region approximately 15 cm from the side windows.

The vertical profile of temperature in the wind-tunnel test section is shown in Figure 4.6. The slight temperature gradient near the surface is insignificant. Figure 4.7 shows the vertical profile of the RMS temperature fluctuations. The corresponding Froude number for the tunnel flow is roughly 67 based on the data in the lowest 10 cm. This is practically equivalent to having an isothermal flow in the tunnel.

4.2 Atmospheric Dispersion Comparability Tests

Atmospheric dispersion comparability tests were conducted in order to establish dispersion characteristics of the simulated boundary layer. Concentration profiles were measured in the downwind, lateral, and vertical directions through a neutral buoyant plume. Measurements were made with a model stack height of 33.3 cm (100 m) and diameter of 1.67 cm (5 m). A neutrally balanced methane mixture was released from the stack with an effluent-to-stack velocity ratio of 1.5. No stack downwash effect but a slight plume rise was observed from flow visualization (Figure 4.8). The effective stack height (i.e., physical stack height plus plume rise) was considered the same as the physical stack height. The resulting measurements were converted to equivalent full-scale concentrations in the form $\chi U_s/Q$ (m^{-2}), according to the Demonstration Study, for comparison with dispersion estimates using Pasquill-Gifford stability categories C and D (Turner, 1970).

The ground-level concentrations measured downstream of the 100 m stack are presented in Figure 4.9 in comparison with an estimate of the

same stack height release from Pasquill-Gifford C and D stability categories. The present data agree quite well with the Pasquill-Gifford class D curve for positions in the near-field but deviate from the D-curve for positions in the far-field from the stack. However, the present results demonstrate comparability to atmospheric dispersion between that estimated using Pasquill-Gifford dispersion parameters for categories C and D. It implies the boundary layer was very similar to the desired neutral condition D but not as turbulent as the slightly unstable condition C. Figure 4.10a and b shows the vertical concentration profiles taken at the plume centerline at five different downwind locations, 0.9 km, 1.5 km, 2.4 km, 3.6 km and 5.1 km. Vertical concentration profiles were compared to those estimated using Pasquill-Gifford D category. Data observed from the near-field slightly deviated from the D-curves. At the far-field, the plume departed from the curve more significantly. Near the source, the effective stack height observed from the vertical concentration profiles appears higher than the physical stack height by about 15 percent as observed from Figure 4.10a. As the downwind distance increased the effect became negligible. Lateral concentration profiles were measured at heights corresponding to the peak concentration found in the vertical profiles at 0.9 km, 1.5 km, 2.4 km, 3.6 km and 5.1 km from the stack. They are presented in Figure 4.11. Results are compared to estimates from Pasquill-Gifford D category with 100 m stack. The comparison is similar to that obtained from the vertical concentration profile.

In summary, the dispersive characteristics of the simulated boundary layer were approximated by Pasquill-Gifford stability category D, i.e., neutral stratification. The effective stack height

was slightly higher than the physical stack height. For near-field dispersion, it affected the position of the peak concentration in the vertical concentration profile but had little effect on the peak value. For far-field dispersion, the location of the peak concentration in the vertical profile was hardly affected by the small difference in stack height. The ground concentration decayed slower than that estimated from Pasquill-Gifford curve beyond 3 km downstream from the source. The slower decay rate results in broadening of the concentration peak, but had little effect on the peak value. The Demonstration Study attributed such results to the larger roughness length and relatively high positioned source in the model as compared to those in the prototype. In the present study, it may also be attributed to smaller roughness length and less mixing near the surface since the shear stress was low near the surface as seen in Figure 4.4. Table 4.1 summarizes the boundary-layer parameters in the model and prototype.

On the whole, the Atmospheric Dispersion Comparability Test provided a satisfactory demonstration that the modeled boundary layer, dispersion characteristics, and measurement system were working correctly.

5. TEST PROGRAM AND RESULTS

5.1 Test Program

The test program consisted of 1) a qualitative study of the stack downwash and plume behavior at BLES by visual observation of the smoke plume trajectory released from the stacks, and 2) a quantitative study of gas concentration produced by the release of tracer gases from the stacks. The run numbers assigned to wind-tunnel tests, the model parameters, BLES configuration and modeled wind speeds are contained in Table 5.1. Model flow rates from the individual stacks were calculated using plant operating conditions for full-power loads and minimum-power loads, as contained in Table 5.2. Table 5.3 lists model and prototype parameters employed in the BLES fluid modeling study.

Data from the 112 separate concentration tests are tabulated in terms of concentration coefficients (m^{-2}) in Appendix B.

Angular locations of the approach winds are referred to in terms of azimuth angle from a nominal north. Cartesian coordinates were employed where the x-axis is along the wind direction, and downwind distances refer to lengths as measured from the center of the proposed three-flues stack. Only for the existing three-stack releases, the origin coincides with the center stack, i.e., Stack 2.

5.2 Flow Visualization Study

Smoke was used to observe plume behavior over the BLES. The smoke was produced by passing the source gases through containers of titanium tetrachloride located outside the MWT and transported through the tunnel wall by means of a tygon tube terminating at the stack inlets. A visible record was obtained by means of black and white photographs taken with a Speed Graphic camera for immediate examination. A 35 mm

SLR camera was used to provide additional color slides. A complete series of flow visualization was recorded on a VHS videotape. Results of flow visualization can be accessed through FDDL (Ref. No. 2-96220). Table 5.4 tabulates specific test parameters/conditions which were documented on the videotape and photographs.

Each run listed in Table 5.4 represents four consecutive runs: individual release from each unit and simultaneous release from all three units. Figure 5.1 presents pictures of flow visualization (side view) for all simultaneous stack-releases. For the 76.2 m stack release, the plume was increasingly bent over and intersected the building wake as the plant load shifted from full to minimum condition. Neither the short stack nor the tall stack shows significant entrainment of effluent plume in the BLES complex. Figures 5.1c and 5.1d show the effect of plant orientation to the wind. One notices that the plume diffuses faster near the stack exit for the case of 198° wind. This may be attributed to the flue orientation at the top of the combined stack since the building wake seems unlikely to affect the plume behavior at such height. As the exit velocity decreases, the downwash effect resulting from the presence of the combined stack becomes slightly visible as seen in Figure 5.1e. Figures 5.1g and 5.1h show the combined effluent releases from the proposed and existing stacks. It can be observed from the pictures that the plume touches the ground at a shorter distance for the 270° case.

5.3 Dispersion from the Existing Stacks

Lateral concentration profiles for full and minimum plant load are presented in Runs 10-15 and Runs 16-19, respectively. These measurements were made for a wind direction of 198° which was reported as the

worst wind direction for the existing stack releases in Cermak et al. (1984). Peak ground-level concentrations in the longitudinal direction are shown in Figures 5.2 and 5.3 for full- and minimum-plant-load condition, respectively. The location of peak ground-level concentration for each stack effluent under full-load conditions varies from the others mainly because of different building downward effect resulting from the plant configuration. The total concentration represents the combined effect, which may be seen as a weighted average of all three stack effluents, from all three stack releases. As the plant load decreases from full to minimum load, the plumes are bent over due to decreased upward momentum and possible stack downwash effect. Decreased plume rise increases wake interaction. Thus, the peak ground-level concentration occurs at $x = 0.6$ km for the minimum-load condition instead of $x = 1.5$ km for the full-load condition.

Figure 5.4 shows the lateral ground-level concentration profiles at $x = 1.5$ km for the full-load condition. The lateral profile for the total concentration displays a flatter peak as a result of superimposing/averaging three nearly Gaussian distributions. Similar results are observed in Figure 5.5 for $x = 0.6$ km, minimum-load condition.

5.4 Determination of the GEP Stack Height

Since the proposed stack is located 68 m southeast of Stack 2 (Figure 5.6), the 198° wind is no longer the worst wind direction to cause building downwash effect. It is therefore desired to find the worst wind direction which causes the most significant ground-level concentration. A series of 16 test runs with various model orientations were conducted. Figure 5.7 shows the maximum ground concentrations vs.

various wind directions for a proposed stack height of 117.3 m. It appears that the worst situation occurred at the 270° wind direction. A secondary peak also occurred at the 90° wind direction, as shown in the same figure. The proposed stack is located directly downstream of the building for the 270° wind (upstream of the building for the 90° wind), which is expected to have the maximum downwash effect. Thus, the GEP stack height was determined based on a 270° approaching wind.

5.4.1 Dispersion in the Absence of the Building

Longitudinal ground concentration measurements with and without the building are shown in Figures 5.8 through Figure 5.11 for stack heights of 117.3 m, 132.6 m, 147.8 m and 163.1 m, respectively. Figure 5.8 also displays the effect of stack orientations (198° and 270° for both full and minimum plant load). The maximum ground-level concentration for H_s = 117.3 m occurred at 3.0 km downstream of the source for the full-load condition and at 2.1 km downstream of the source for the minimum-load condition. As the stack height increased from 117.3 m to 163.1 m, the location of the maximum ground concentration changed from 1.5 km to 3.0 km downstream of the source for the minimum-load condition. For the full-load condition, the peak of the ground concentration profile became rather flat as the stack height increased. However, it is sufficient to justify the magnitude of the maximum ground concentration. Vertical and lateral concentration profiles were measured with and without the model building, Figures 5.12 through Figure 5.14, for H_s = 117.3 m under full-load condition. These plots were combined in order to facilitate direct comparison of the building effects on downstream concentrations. Both vertical concentration profiles and lateral ground concentration profiles were measured at the location of maximum ground concentration,

half-way between the source and the ground-level maximum, and quarter-way between the source and the ground-level maximum. The elevated lateral concentration profiles were measured at the elevation of the maximum concentration found from the corresponding vertical concentration profile.

5.4.2 Dispersion in the Presence of the Building

The model building was placed in the wind tunnel and concentration measurements were made for direct comparison with those made in the absence of the model building. Comparison of the two sets of data provided a direct assessment of the influence of the building wake on downstream concentration. All the test conditions were kept identical to those used in the absence of the building. Results are presented in Figures 5.8 through Figure 5.11 for full-load and minimum-load conditions.

The maximum ground-level concentration for H_s = 117.3 m occurred at approximately 2.8 km downstream of the source for the full-load condition. As the stack height increased, the location of the maximum ground concentration moved farther downstream of the source. For the minimum-load operation, the location of the maximum ground concentration changed from 1.5 km to 3.0 km downstream of the source as the stack height increased from 117.3 m to 163.1 m. The longitudinal ground-level concentration measurement in the presence of the building showed that the location of the peak concentration moved slightly closer to the source than without the presence of the building as seen in Figure 5.8 through Figure 5.11.

The lateral and vertical concentration profiles are displayed in Figure 5.12 through Figure 5.14 for full-load condition. The

locations of these measurements were selected in the same manner as those measurements in the absence of the building. Vertical and lateral concentration profiles were measured in order to establish beyond a reasonable doubt both the location and value of the maximum ground-level concentration as depicted in Guideline 1. Several measurements were repeated at x = 3 m. The results are shown in Figure 5.15. Together with some repeated runs as seen in Figures 5.12 and 5.13, these runs are designed to determine the extreme (peak-to-peak scatter) concentration values and to ensure the repeatability of wind-tunnel simulations. The peak-to-peak scatter for the maximum ground concentration was $(1.40\pm.12) \times 10^{-5}$ $1/m^2$; thus, repeated measurements were within 8.6 percent relative to the mean peak concentration.

5.4.3 Recommendation for the GEP Stack Height

Figure 5.16 summarizes the ratio of maximum ground concentration with the presence of the building to that without the presence of the building for various stack heights. For full-load operation, a stack height of 144.2 m is the GEP stack height in terms of excess concentration defined by Guideline 1.

5.5 Dispersion from Existing Stack 3 in Conjunction with Proposed Stack Flues 1 and 2

As observed from Runs 10-15, the maximum ground-level concentration resulting from the existing Stack 3 was 0.627 E-4 $1/m^2$. The 198° wind direction was considered as the worst wind direction which resulted in maximum ground-level concentration for the existing stack releases. For a proposed stack, the worst situation occurred at wind direction 270° where the proposed stack was located in the building wake of the BLES. Maximum ground-level concentrations from 117.3 m and 147.8 m stacks were recorded in Runs 51 and 57 as follows:

Stack Height	Flue 1 $\chi_1 U_s/Q_1$, $1/m^2$	Flue 2 $\chi_2 U_s/Q_2$, $1/m^2$
117.3 m	0.150 E-4	0.159 E-4
147.8 m	0.797 E-5	0.778 E-5

Since the proposed stack was located approximately 100 m from the existing Stack 3, the governing downwash mechanism for Stack 3 is not expected to change significantly due to the presence of the new stack. The worst wind direction for ground-level concentration from Stack 3 is then expected to be at 198° as before. However, the total concentration from the proposed stack Flues 1 and 2, and the existing Stack 3 can be predicted as:

$$(0\cdot\frac{Q_1}{Q_T} + 0\cdot\frac{Q_2}{Q_T} + .627E\text{-}4\cdot\frac{Q_3}{Q_T}) < \frac{\chi_T U_s}{Q_T} < (.150E\text{-}4\frac{Q_1}{Q_T} + .159E\text{-}4\cdot\frac{Q_2}{Q_T} + .627E\text{-}4\cdot\frac{Q_3}{Q_T})$$

i.e., $.206E\text{-}4 < \frac{\chi_T U_s}{Q_T} < .310E\text{-}4$ for 117.3 m stack Flues 1 and 2 with existing Stack 3.

Similarly,

$.206E\text{-}4 < \frac{\chi_T U_s}{Q_T} < .259E\text{-}4$ for 147.8 m stack Flues 1 and 2 with existing Stack 3.

For diffusion measurement without the presence of the building, the maximum ground concentration will be dominated by the lower stack, i.e., the existing Stack 3. From Runs 60, 63, and 112, the maximum ground-level concentrations were measured as follows:

Stack Height	Flue 1 $\chi_1 U_s/Q_1$, $1/m^2$	Flue 2 $\chi_2 U_s/Q_2$, $1/m^2$	Stack 3 $\chi_3 U_s/Q_3$, $1/m^2$
117.3 m	.887 E-5	.799 E-5	--
147.8 m	.658 E-5	.577 E-5	--
76.2 m	--	--	.170 E-4

Hence, the total concentration from the combined stacks without the presence of building can be predicted as:

$$(0\cdot\frac{Q_1}{Q_T} + 0\cdot\frac{Q_2}{Q_T} + .170E\text{-}4\frac{Q_3}{Q_T}) < \frac{\chi_T U_s}{Q_T} < (.887E\text{-}5\frac{Q_1}{Q_T} + .799E\text{-}5\frac{Q_2}{Q_T} + .170E\text{-}4\frac{Q_3}{Q_T})$$

or $.559\ E\text{-}5 < \frac{\chi_T U_s}{Q_T} < .112\ E\text{-}4$ for 117.3 m stack Flues 1 and 2 with existing Stack 3

and

$$(0\cdot\frac{Q_1}{Q_T} + 0\cdot\frac{Q_2}{Q_T} + .170E\text{-}4\frac{Q_3}{Q_T}) < \frac{\chi_T U_s}{Q_T} < (.658E\text{-}5\frac{Q_1}{Q_T} + .577E\text{-}5\frac{Q_2}{Q_T} + .170E\text{-}4\frac{Q_3}{Q_T})$$

or $.559\ E\text{-}5 < \frac{\chi_T U_s}{Q_T} < .972\ E\text{-}5$ for 147.8 m stack Flues 1 and 2 with existing Stack 3

Therefore,

$$1.84 = \frac{.206E\text{-}4}{.112E\text{-}4} < \frac{(\frac{\chi_T U_s}{Q_T})_{\text{with building}}}{(\frac{\chi_T U_s}{Q_T})_{\text{without building}}} < \frac{.310E\text{-}4}{.559E\text{-}5} = 5.54$$ for 117.3 m stack Flues 1 and 2 and existing Stack 3

and

$$2.12 < \frac{(\frac{\chi_T U_s}{Q_T})_{\text{with building}}}{(\frac{\chi_T U_s}{Q_T})_{\text{without building}}} < 4.63$$ for 147.8 m stack Flues 1 and 2 and existing Stack 3

The asymptotic value of $\frac{(\frac{\chi_T U_s}{Q_T})_{\text{with}}}{(\frac{\chi_T U_s}{Q_T})_{\text{without}}}$ is $\frac{.206\ E\text{-}4}{.559\ E\text{-}5}$ for infinite high stack Flues 1 and 2 and existing Stack 3

which means that the combined stacks cannot satisfy the excessive concentration criterion with Unit 3 remaining as an existing stack.

6. SUMMARY

A physical modeling of gas dispersion at BLES was conducted in the Meteorological Wind Tunnel at Colorado State University. The purpose was to determine a three-flue Good-Engineering-Practice stack height which would not exceed the 40 percent excessive pollutant concentration criterion as promulgated by the U.S. EPA.

Similarity criteria adopted in the wind-tunnel study replicated those used in the EPA Demonstration Study (Lawson and Snyder, 1983), i.e., matching the ratios of effluent-to-ambient density and effluent-to-ambient speed between the model and prototype. The scale ratio was set at 1:300 and the building Reynolds number was sufficiently large to ensure that the flow around the building was Reynolds-number independent. The simulated boundary layer was found to reproduce main charac teristics of the adiabatic atmospheric boundary layer and the dispersion characteristics of the simulated plume were comparable to those of the atmospheric dispersion according to the Pasquill-Gifford stability category D.

The wind direction which maximizes downwash effects and introduces high ground-level concentrations was determined at a stack height of 117.3 m, full-load operating conditions, from percent excess ground-level concentration with and without the presence of building. A 270° (W) wind was found to maximize downwash effect. A stack height of 144.2 m under full-load operating conditions was shown to meet the 40 percent excessive pollutant concentration criteria from Figure 5.16. For the minimum-load operating condition, a stack height of 117.3 m was justified (as seen in Figure 5.16) to meet the current GEP criteria.

The present simulation techniques are designed to examine the excessive pollutant concentration caused by nearby terrain or nearby

structures. The concentrations may be conservative (overestimated) (Snyder, 1981) when one scales the present results to the field concentration measurements because of under-estimation of the plume rise. Hence, the present results are not recommended to be used in determining the acceptable mass concentration as required by the National Ambient Air Quality Standard. However, they are useful for establishing the stack height for which building wake effects are eliminated for the 40 percent criteria.

It was also shown that a two-flue stack with existing stack for Unit 3 resulted in higher percent excess ground-level concentration with and without the presence of building. Such configuration can never meet the 40 percent exceedance requirement regardless how high the two-flue stack can go.

Determination of GEP stack height for individual flue release may be achieved according to Section 5.4 by releasing tracer gas from each flue separately. However, data are not available in the present study. Similar analysis for the individual flue based on the data from combined release may introduce some uncertainty because of possible plume interaction. Hence it is not recommended to perform such analysis based on the present results.

Vertical and lateral concentration profiles both with and without the model building were documented for the 117.3 m stack under full-load operating conditions. These profiles provided verification of the maximum ground-level concentration measured in each case. Repeatability of the wind-tunnel study can be seen in Figures 4.1 and 5.15. Errors associated with the concentration measurements were on the order of 8.6 percent for the ground-level concentration (Fig. 5.15a) and 4.2 percent for the maximum concentrations (Fig. 5.15b).

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TABLES

Table 4.1. Boundary layer parameters in the model and prototype.

Parameter	Prototype*	Model	Field Result**
Scale	300	1	--
Free-Stream Velocity, U_∞ (m/s)	17.2	2.0	17.2
Boundary Layer Depth, δ (m)	300	1.0	600
Roughness Length, z_o (m)	0.0315	0.000105	0.0315
Power Law Index, n	0.15	0.15	0.13
Friction Velocity, U_* (m/s)	0.715	0.083	0.740
z_o/δ	0.000105	0.000105	5.25×10^{-5}
U_*^2/U_∞^2 $(-\frac{\overline{uw}}{U_\infty^2})$	0.00172	0.00172	0.00185
$(\frac{\sqrt{\overline{u'^2}}}{U})$ $z/\delta = 1/20$	0.145	0.145	0.146
$(\frac{\sqrt{\overline{u'^2}}}{U})$ $z/\delta = 1/6$	0.10	0.10	0.124
$(\frac{\sqrt{\overline{w'^2}}}{U})$ $z/\delta = 1/20$	0.048	0.048	0.073
$(\frac{\sqrt{\overline{w'^2}}}{U})$ $z/\delta = 1/6$	0.046	0.046	0.062

*Prototype values represent simulation results from model values based on scale ratio and free-stream velocity.

**All values were calculated from Counihan (1975) based on $(z_o)_p = (z_o)_m \times 300$, $\delta = 600$ m and $U_\infty = 17.2$ m/s.

Table 5.1. Run numbers and model parameters used on BLES wind-tunnel tests.

Run No.	Power Load	Tunnel Speed (m/s)	Model Building	ADCT Stack Ht. (cm)	ADCT Stack Temp. (°F)	ADCT Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
1	ADCT	2.00	OUT	33.3	68	555	30.3	Ground	ADCT01
2	ADCT	2.00	OUT	33.3	68	555	30.3	Ground	ADCT02
3	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 1m, z = .39m	ADCT03
3A	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 3m	--
4	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 3m, z = .39m	ADCT04
4A	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 3m	--
4B	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x - 5m	--
4C	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 5m	--
5	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 5m, z = .43m	ADCT05
5A	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 8m	--
5B	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 8m	--
6	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 8m, z = .4m	ADCT06
7	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 8m, z = .39m	ADCT07
8	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 12m, z = .36m	ADCT08
9	ADCT	2.00	OUT	33.3	68	555	30.3	Rake, x = 17m, z = .38m	ADCT09

Table 5.1. (continued)

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/s \times 10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/s \times 10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/s \times 10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
10	Full	198	2.00	IN	25.4	270	346.6	25.4	285	369.1	25.4	310	350.3	30.3	Rake, x = 2m	BLEX02
11	Full	198	2.00	IN	25.4	270	346.6	25.4	285	369.1	25.4	310	350.3	30.3	Rake, x = 3m	BLEX03
12	Full	198	2.00	IN	25.4	270	346.6	25.4	285	369.1	25.4	310	350.3	30.3	Rake, x = 4m	BLEX04
13	Full	198	2.00	IN	25.4	270	346.6	25.4	285	369.1	25.4	310	350.3	30.3	Rake, x = 5m	BLEX05
14	Full	198	2.00	IN	25.4	270	346.6	25.4	285	369.1	25.4	310	350.3	30.3	Rake, x = 6m	BLEX06
15	Full	198	2.00	IN	25.4	270	346.6	25.4	285	369.1	25.4	310	350.3	30.3	Rake, x = 8m	BLEX08
16	Min	198	2.00	IN	25.4	260	152.0	25.4	260	158.1	25.4	260	152.0	30.3	Rake, x = 1m	BLEX11
17	Min	198	2.00	IN	25.4	260	152.0	25.4	260	158.1	25.4	260	152.0	30.3	Rake, x = 2m	BLEX12
18	Min	198	2.00	IN	25.4	260	152.0	25.4	260	158.1	25.4	260	152.0	30.3	Rake, x = 3m	BLEX13
19	Min	198	2.00	IN	25.4	260	152.0	25.4	260	158.1	25.4	260	152.0	30.3	Rake, x = 4m	BLEX14
20	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 3m	BLEV01
21	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 6m	BLEV02
22	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 12m	BLEV03
23	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 12m, z = .48m	BLEV04
24	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 6m, z = .55m	BLEV05

Table 5.1. (continued)

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/sx10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/sx10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
25	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 3m, z = .48m	BLEV06
26	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 2m	BLEV07
27	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 2m, z = .35m	BLEV08
28	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 4m	BLEV09
29	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 4m, z = .33m	BLEV10
30	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 8m	BLEV11
31	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 8m, z = .3m	BLEV12
32	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 8m, z = .3m	BLEV13
33	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 8m, z = .3m	BLEV14
34	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 8m, z = .3m	BLEV15
35	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Rake, x = 8m, z = .3m	BLEV16
36	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 4m-9m	BLER01
37	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 10m-15m	BLER03
38	Full	198	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 11m-16m	BLER04
39	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Ground, 1m-7m	BLER05

Table 5.1. (continued)

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/sx10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/sx10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
40	Min	198	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Ground, 8m-12m	BLER06
41	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,11m-16m	BLER07
42	Full	183	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,11m-16m	BLER08
43	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,10m-15m	BLER09
44	Full	183	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,10m-15m	BLER10
45	Full	213	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,10m-15m	BLER11
46	Full	168	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 9m-15m	BLER12
47	Full	135	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 9m-15m	BLER13
48	Full	285	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,10m-14m	BLER14
49	Full	300	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,10m-14m	BLER15
50	Full	315	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,10m-14m	BLER16
51	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,10m-14m	BLER17
52	Full	255	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 7m-13m	BLER18
53	Full	90	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 7m-14m	BLER19
54	Full	70	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 7m-14m	BLER20

Table 5.1. (continued)

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/sx10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/sx10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
55	Full	110	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 7m-11m	BLER21
56	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 1m-15m	BLER22
57	Full	270	2.00	IN	49.3	270	346.6	49.3	285	369.1	49.3	310	350.3	30.3	Ground,11m-16m	BLER23
58	Full	270	2.00	IN	49.3	270	346.6	49.3	285	369.1	49.3	310	350.3	30.3	Ground, 1m-10m	BLER24
59	Full	270	2.00	OUT	49.3	270	346.6	49.3	285	369.1	49.3	310	350.3	30.3	Ground, 1m-10m	BLER25
60	Full	270	2.00	OUT	49.3	270	346.6	49.3	285	369.1	49.3	310	350.3	30.3	Ground,11m-16m	BLER26
61	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 1m-16m	BLER27
62	Full	270	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground,11m-16m	BLER28
63	Full	270	2.00	OUT	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Ground, 1m-16m	BLER29
64	Min	270	2.00	OUT	49.3	260	152.0	49.3	260	158.1	49.3	260	152.0	30.3	Ground, 1m-10m	BLER30
65	Min	270	2.00	OUT	49.3	260	152.0	49.3	260	158.1	49.3	260	152.0	30.3	Ground,11m-16m	BLER31
66	Min	270	2.00	IN	49.3	260	152.0	49.3	260	158.1	49.3	260	152.0	30.3	Ground,11m-16m	BLER32
67	Min	270	2.00	IN	49.3	260	152.0	49.3	260	158.1	49.3	260	152.0	30.3	Ground, 1m-10m	BLER33
68	Min	270	2.00	IN	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Ground, 1m-15m	BLER34
69	Min	270	2.00	IN	54.4	260	152.0	54.4	260	158.1	54.4	260	152.0	30.3	Ground, 1m-15m	BLER35

Table 5.1. (continued)

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/sx10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/sx10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
70	Min	270	2.00	OUT	54.4	260	152.0	54.4	260	158.1	54.4	260	152.0	30.3	Ground, 1m-15m	BLER36
71	Min	270	2.00	OUT	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Ground, 1m-15m	BLER37
72	Min	270	2.00	IN	39.1	260	152.0	39.1	260	158.1	39.1	260	152.0	30.3	Ground, 1m-15m	BLER38
73	Min	270	2.00	IN	44.2	260	152.0	44.2	260	158.1	44.2	260	152.0	30.3	Ground, 1m-15m	BLER39
74	Min	270	2.00	OUT	44.2	260	152.0	44.2	260	158.1	44.2	260	152.0	30.3	Ground, 1m-15m	BLER40
75	Full	270	2.00	OUT	44.2	270	346.6	44.2	285	369.1	44.2	310	350.3	30.3	Ground, 1m-15m	BLER41
76	Full	270	2.00	IN	44.2	270	346.6	44.2	285	369.1	44.2	310	350.3	30.3	Ground, 1m-15m	BLER42
77	Full	270	2.00	IN	54.4	270	346.6	54.4	285	369.1	54.4	310	350.3	30.3	Ground, 1m-16m	BLER43
78	Full	270	2.00	OUT	54.4	270	346.6	54.4	285	369.1	54.4	310	350.3	30.3	Ground, 1m-16m	BLER44
79	Full	270	1.24	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	18.8	Ground, 1m-16m	BLER45
80	Full	270	1.68	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	25.5	Ground, 1m-16m	BLER46
81	Full	270	2.31	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	35.0	Ground, 1m-16m	BLER47
82	Full	270	1.32	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	20.0	Ground, 1m-16m	BLER48
83	Full	270	1.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	15.1	Ground, 1m-16m	BLER49
84	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Ground, 4m-11m	BLER50

Table 5.1. (continued)

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/s \times 10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/s \times 10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/s \times 10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
85	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 6m	BLER51
86	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 8m	BLER52
87	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 10m	BLER53
88	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 12m	BLER54
89	Full	198	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 14m	BLER55
90	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 6m	BLER56
91	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 8m	BLER57
92	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 10m	BLER58
93	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 10m	BLER59
94	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 4m	BLER60
95	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 12m	BLER61
96	Full	255	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 12m	BLER62
97	Full	255	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 10m	BLER63
98	Full	255	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 8m	BLER64
99	Full	255	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 6m	BLER65

Table 5.1. (continued)

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/s \times 10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/s \times 10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/s \times 10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
100	Full	255	2.00	IN	39.1	270	346.6	39.1	285	369.1	25.4	310	350.3	30.3	Rake, x = 4m	BLER66
101	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 10m	BLER67
102	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 10m	BLER68
103	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 10m	BLER69
104	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 10m	BLER70
105	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 5m	BLER71
106	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 2.5m	BLER72
107	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 2.5m z = .44m	BLER73
108	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 5m z = .44m	BLER74
109	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 10m z = .44m	BLER75
110	Full	270	2.00	IN	39.1	270	346.6	39.1	285	369.1	39.1	310	350.3	30.3	Rake, x = 2.5m	BLER76
111	Full	198	2.00	OUT							25.4	310	350.3	30.3	Ground, 1m-7m	BLER77
112	Full	198	2.00	OUT							25.4	310	350.3	30.3	Ground, 7m-15m	BLER78
END																

Table 5.2. Prototype operating criteria used in model calculations.

Unit	MW	Fuel	ACFM	Exit Gas Temp °F	M^3/sec	Stack Diam-M	Exit Gas Velocity M/S	Stack Height-M	Stack SO_2 Emission Gr/sec	Stack SO_2 Conc Gr/M^3
Full Load Study Criteria										
1	127	Coal	570,000	270	269.0	3.66	25.6	76.2	850	3.16
2	160	Coal	607,000	285	286.5	4.02	22.6	76.2	1050	3.67
3	160	Oil	576,000	310	271.9	3.96	22.0	76.2	220	0.81
Minimum Load Study Criteria										
1	60	Coal	250,000	260	118.0	3.66	11.2	76.2	400	3.39
2	60	Coal	260,000	260	122.7	4.02	9.7	76.2	400	3.26
3	40	Oil	250,000	260	118.0	3.96	9.6	76.2	55	0.47

(a)

Table 5.2. (continued)

Unit	MW	Fuel	ACFM	Exit Gas Temp °F	M^3/sec	Stack Diam-M	Exit Gas Velocity M/S	Stack Height-M	Stack SO_2 Emission Gr/sec	Stack SO_2 Conc$_3$ Gr/M^3
Full Load Study Criteria - Three-Flue Stack										
1	127	Coal	570,000	270	269.0	4.14	20.0	GEP	850	3.16
2	160	Coal	607,000	285	286.5	4.26	20.5	GEP	1050	3.67
3	160	Oil	576,000	310	271.9	3.96	22.0	GEP	220	0.81
Full Load Study Criteria - Two-Flue Stack										
1	127	Coal	570,000	270	269.0	4.14	20.0	GEP	850	3.16
2	160	Coal	607,000	285	286.5	4.26	20.5	GEP	1050	3.67
3	160	Oil	576,000	310	271.9	3.96	22.0	76.2	220	0.81
Minimum Load Study Criteria - Three-Flue Stack										
1	60	Coal	250,000	260	118.0	4.14	8.8	GEP	400	3.39
2	60	Coal	260,000	260	122.7	4.22	8.8	GEP	400	3.26
3	40	Oil	250,000	260	118.0	3.96	9.6	GEP	55	0.47
Minimum Load Study Criteria - Two-Flue Stack										
1	60	Coal	250,000	260	118.0	4.14	8.8	GEP	400	3.39
2	60	Coal	260,000	260	122.7	4.22	8.8	GEP	400	3.26
3	40	Oil	250,000	260	118.0	3.96	9.6	76.2	55	0.47

(b)

Table 5.3. Model and prototype parameters for the BLES evaluations.

Parameters	FULL LOAD, EXISTING STACKS					
	Stack 1		Stack 2		Stack 3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	2.00	17.24	2.00	17.24	2.00
3. Effluent Velocity W_s (m/s)	25.57	2.96	22.57	2.62	22.07	2.56
4. Effluent Temperature (°K)	405.2	293	414.3	293	427.4	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.706	0.706	0.690	0.690	0.669	0.669
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 76.2 m)	1.82	1.82	1.61	1.61	1.57	1.57
8. Stack Diameter, D(m)	3.66	0.0122	4.02	0.0134	3.96	0.0132
9. Volume Flow, $Q(m^3/s)$	269	3.47×10^{-4}	286.5	3.69×10^{-4}	271.9	3.50×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	7.88	15.65	6.47	13.09	6.15	12.43
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s} \frac{D}{H_s}$	0.0386	0.0386	0.0353	0.0353	0.0334	0.0334

Table 5.3. (continued)

Parameters	MIN LOAD, EXISTING STACKS					
	Stack 1		Stack 2		Stack 3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	2.00	17.24	2.00	17.24	2.00
3. Effluent Velocity W_s (m/s)	11.2	1.30	9.67	1.12	9.58	1.11
4. Effluent Temperature (°K)	399.7	293	399.7	293	399.7	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.715	0.714	0.715	0.714	0.715	0.715
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 76.2 m)	0.798	0.798	0.689	0.685	0.682	0.678
8. Stack Diameter, D(m)	3.66	0.0122	4.02	0.0134	3.96	0.0132
9. Volume Flow, Q(m^3/s)	118	1.52×10^{-4}	122.7	1.58×10^{-4}	118.0	1.52×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	3.50	7.03	2.89	5.78	2.88	5.78
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s} \frac{D}{H_s}$	0.0162	0.0162	0.0154	0.0154	0.0150	0.0150

Table 5.3. (continued)

Parameters	FULL LOAD, PROPOSED STACKS					
	Flue 1		Flue 2		Flue 3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	2.00	17.24	2.00	17.24	2.00
3. Effluent Velocity W_s (m/s)	19.98	2.32	20.42	2.37	22.08	2.56
4. Effluent Temperature (°K)	405.2	293	414.3	293	427.4	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.706	0.706	0.690	0.690	0.669	0.669
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 117.3 m)	1.33	1.33	1.36	1.36	1.47	1.47
8. Stack Diameter, D(m)	4.14	0.0138	4.22	0.0141	3.96	0.0132
9. Volume Flow, Q(m^3/s)	269.0	3.47×10^{-4}	286.5	3.69×10^{-4}	271.9	3.50×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	5.78	11.63	5.70	11.45	6.16	12.37
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s} \frac{D}{H_s}$	0.0197	0.0197	0.0203	0.0203	0.0203	0.0203

Table 5.3. (continued)

Parameters	MIN LOAD, PROPOSED STACKS					
	Flue 1		Flue 2		Flue 3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	2.00	17.24	2.00	17.24	2.00
3. Effluent Velocity W_s (m/s)	8.76	1.02	8.77	1.02	9.57	1.11
4. Effluent Temperature (°K)	399.7	293	399.7	293	399.7	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.715	0.714	0.715	0.714	0.715	0.715
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 117.3 m)	0.585	0.585	0.585	0.585	0.639	0.639
8. Stack Diameter, D(m)	4.14	0.0138	4.22	0.0141	3.96	0.0132
9. Volume Flow, Q(m^3/s)	118.0	1.52×10^{-4}	122.7	1.58×10^{-4}	118.0	1.52×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	2.58	5.19	2.55	5.13	2.88	5.78
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s} \frac{D}{H_s}$	0.00873	0.00872	0.00890	0.00891	0.00912	0.00912

Table 5.4. Run numbers and model parameters of flow visualization study in BLES wind-tunnel tests.

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	Wind Speed at 60 m (mph)	Stack Configuration
1	ADCT	--	2.00	OUT	30.3	ADCT
10	Full	198	2.00	IN	30.3	76.2 m stacks
16	Min	198	2.00	IN	30.3	76.2 m stacks
41	Full	198	2.00	IN	30.3	117.3 m stack
51	Full	270	2.00	IN	30.3	117.3 m stack
66	Min	270	2.00	IN	30.3	117.3 m stack
66.1	Min	270	2.00	IN	30.3	117.3 m stack + 3.8 m extensions
84	Full	198	2.00	IN	30.3	117.3 m stack & 76.2 m stack
90	Full	270	2.00	IN	30.3	117.3 m stack & 76.2 m stack

FIGURES

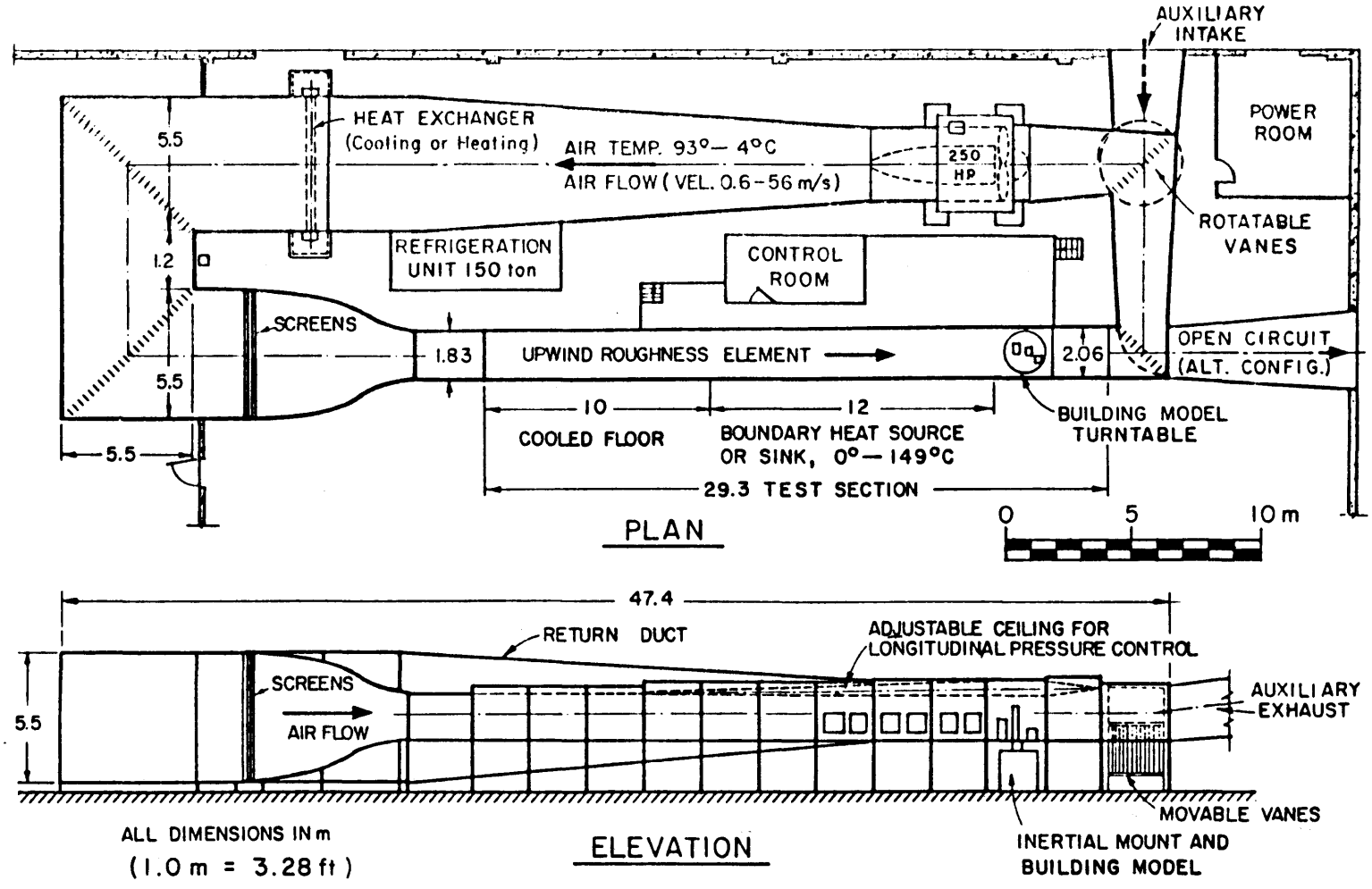
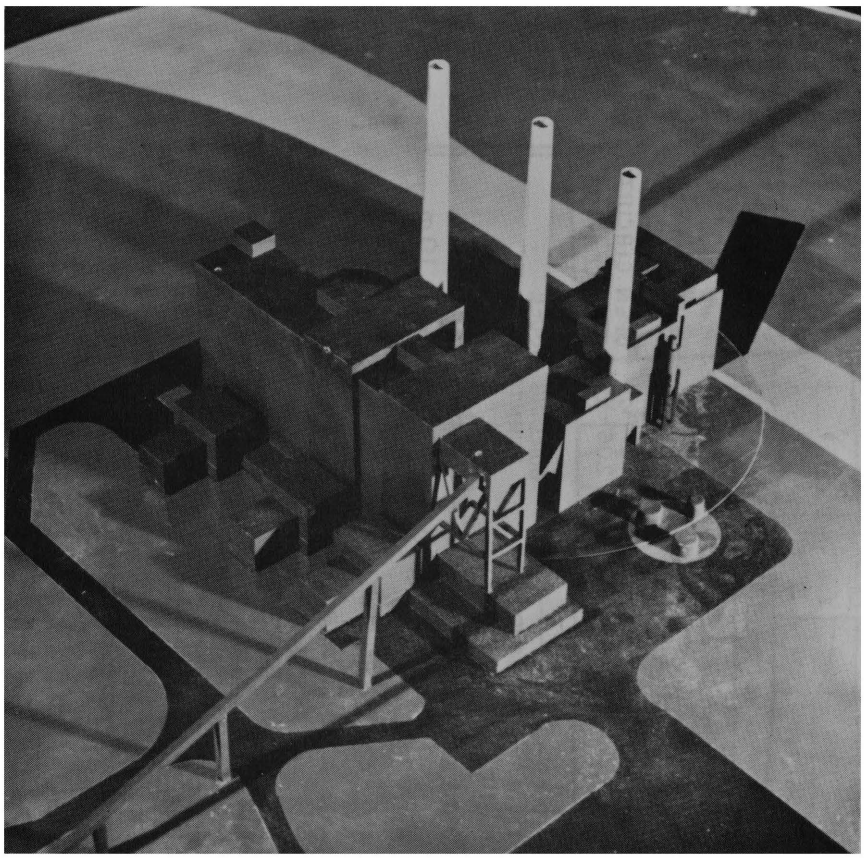
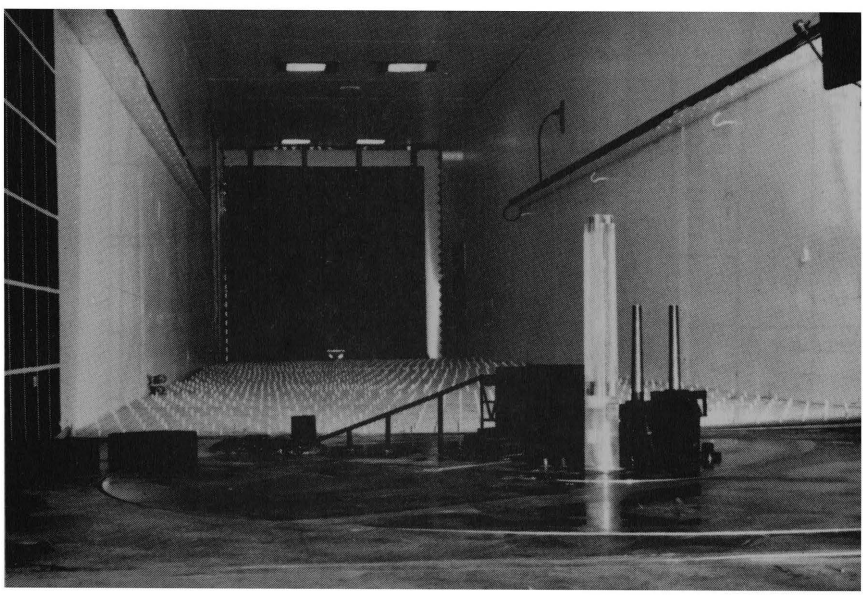


Figure 3.1. Meteorological Wind Tunnel, Fluid Dynamics and Diffision Laboratory, Colorado State University

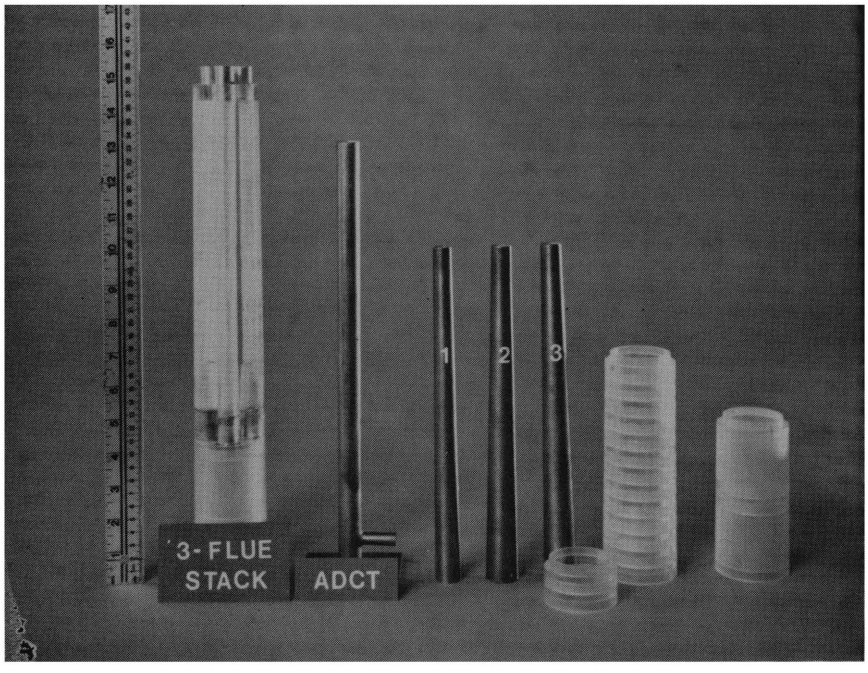


(a)

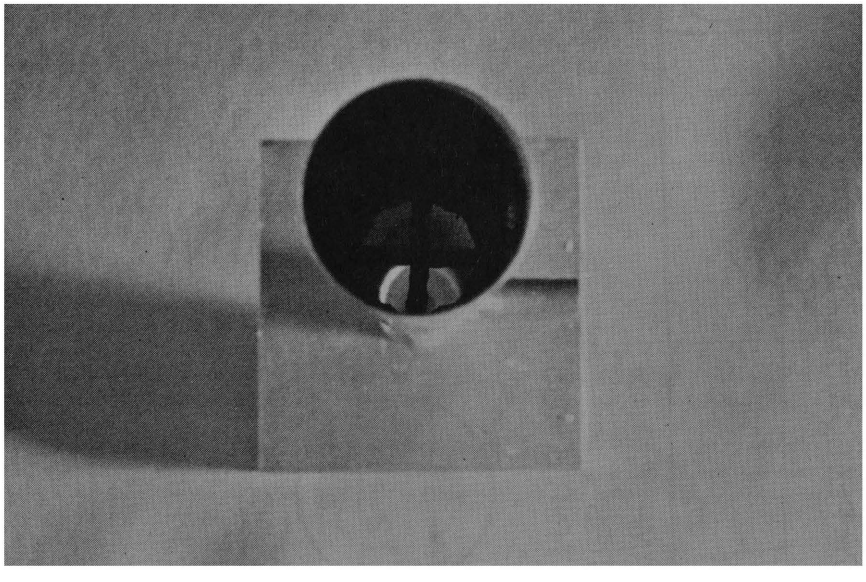


(b)

Figure 3.2. Photographs of (a) the BLES model and (b) the upwind view in the MWT.



(a)



(b)

Figure 3.3. Photographs of (a) the stack configuration and (b) the serrated ring of the BLES model.

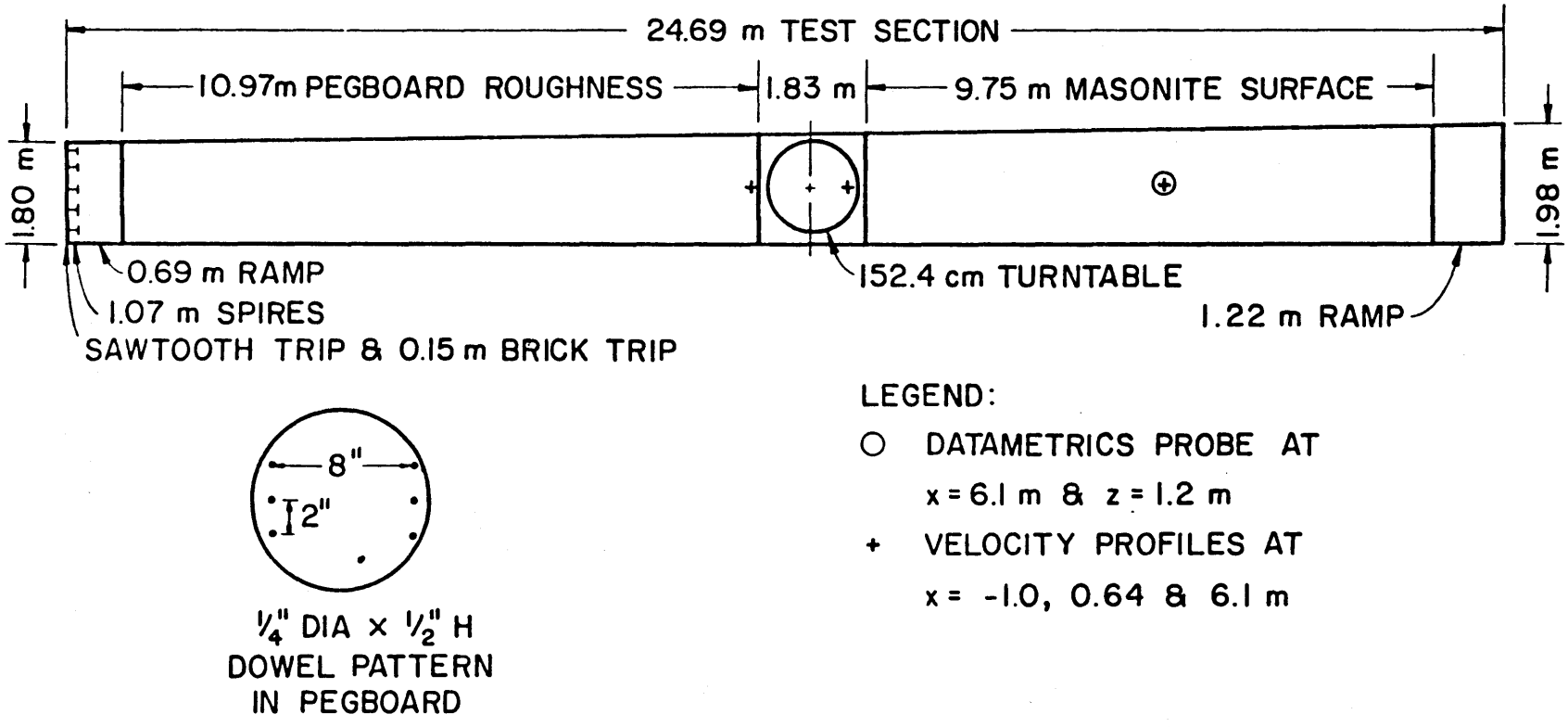


Figure 3.4. Schematic of MWT test section.

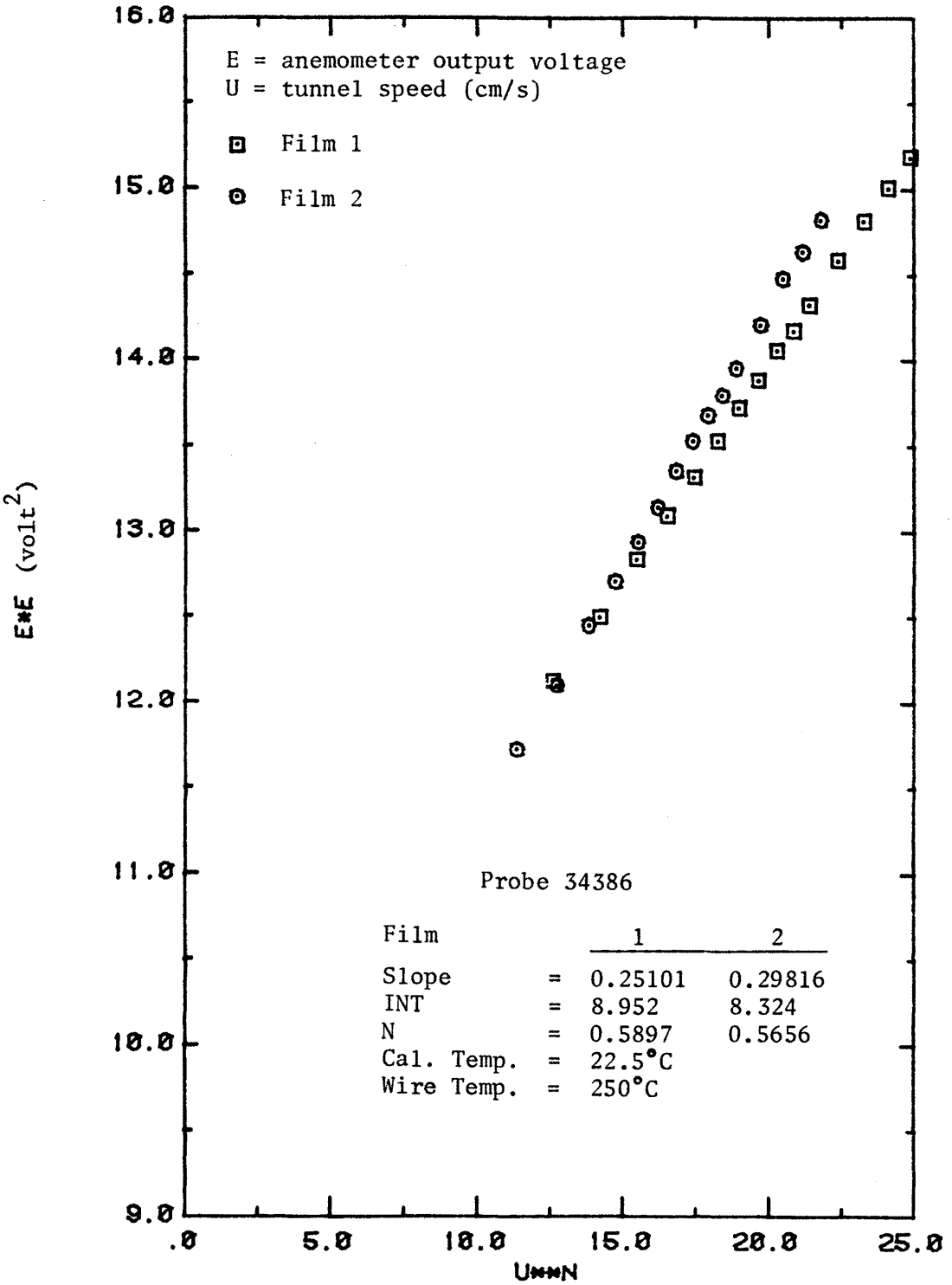
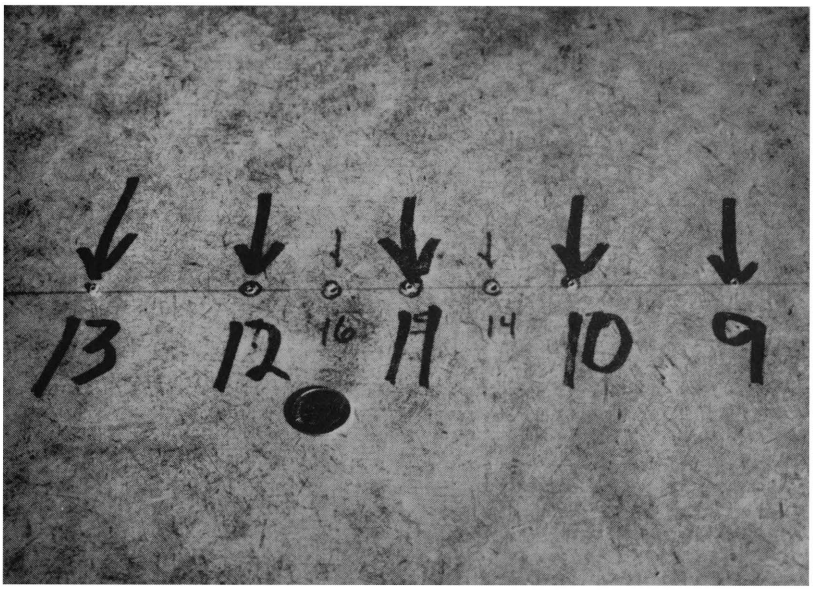
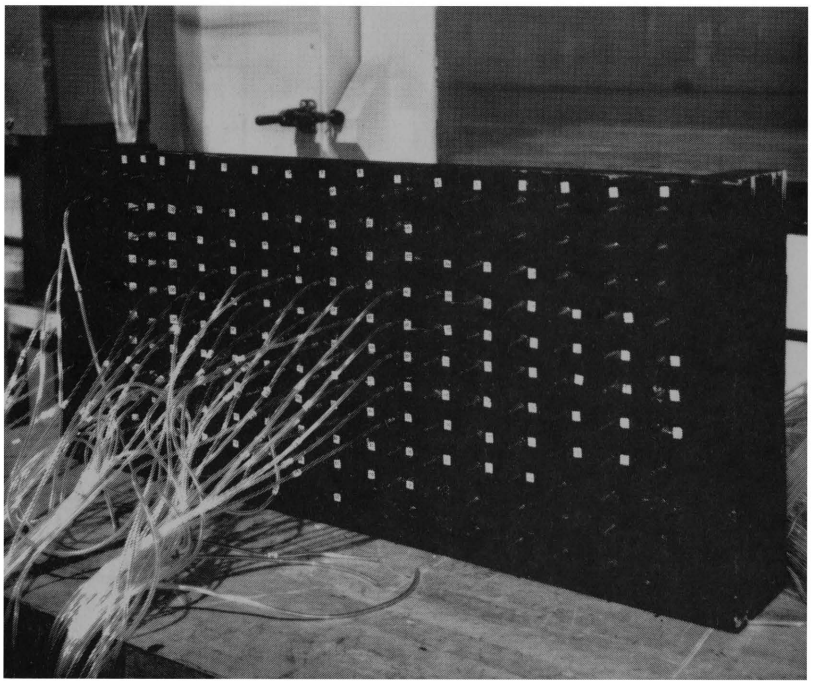


Figure 3.5. Typical calibration curves for hot-film anemometer.

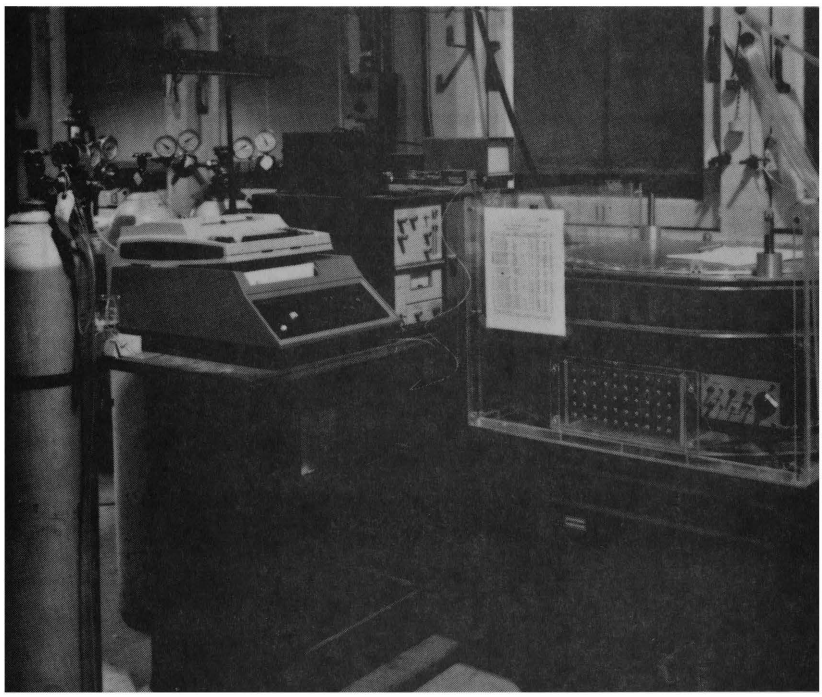


(a)

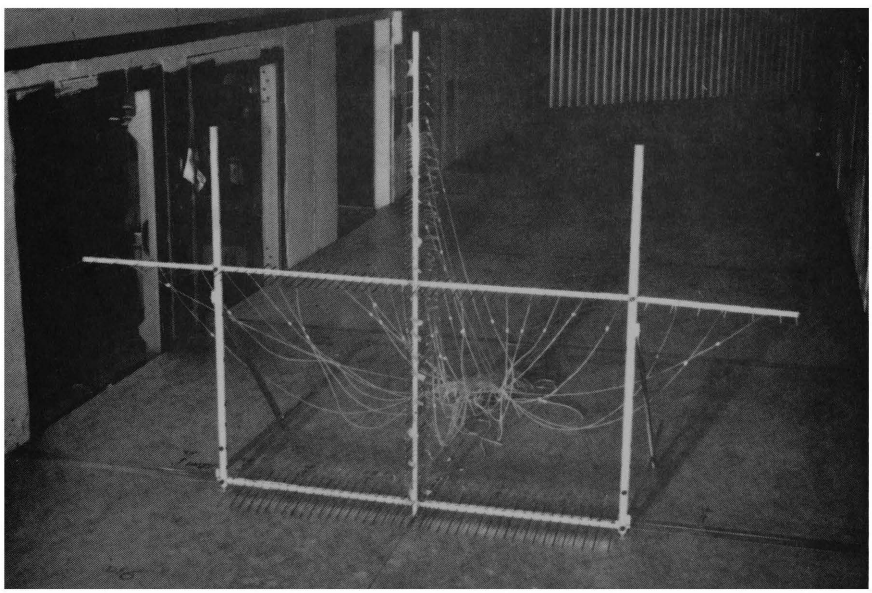


(b)

Figure 3.6. Instrumentation for concentration measurements: (a) ground samplers, (b) interface board, (c) gas sampling system, GC and integrator, and (d) sampling rake.



(c)



(d)

Figure 3.6. (continued)

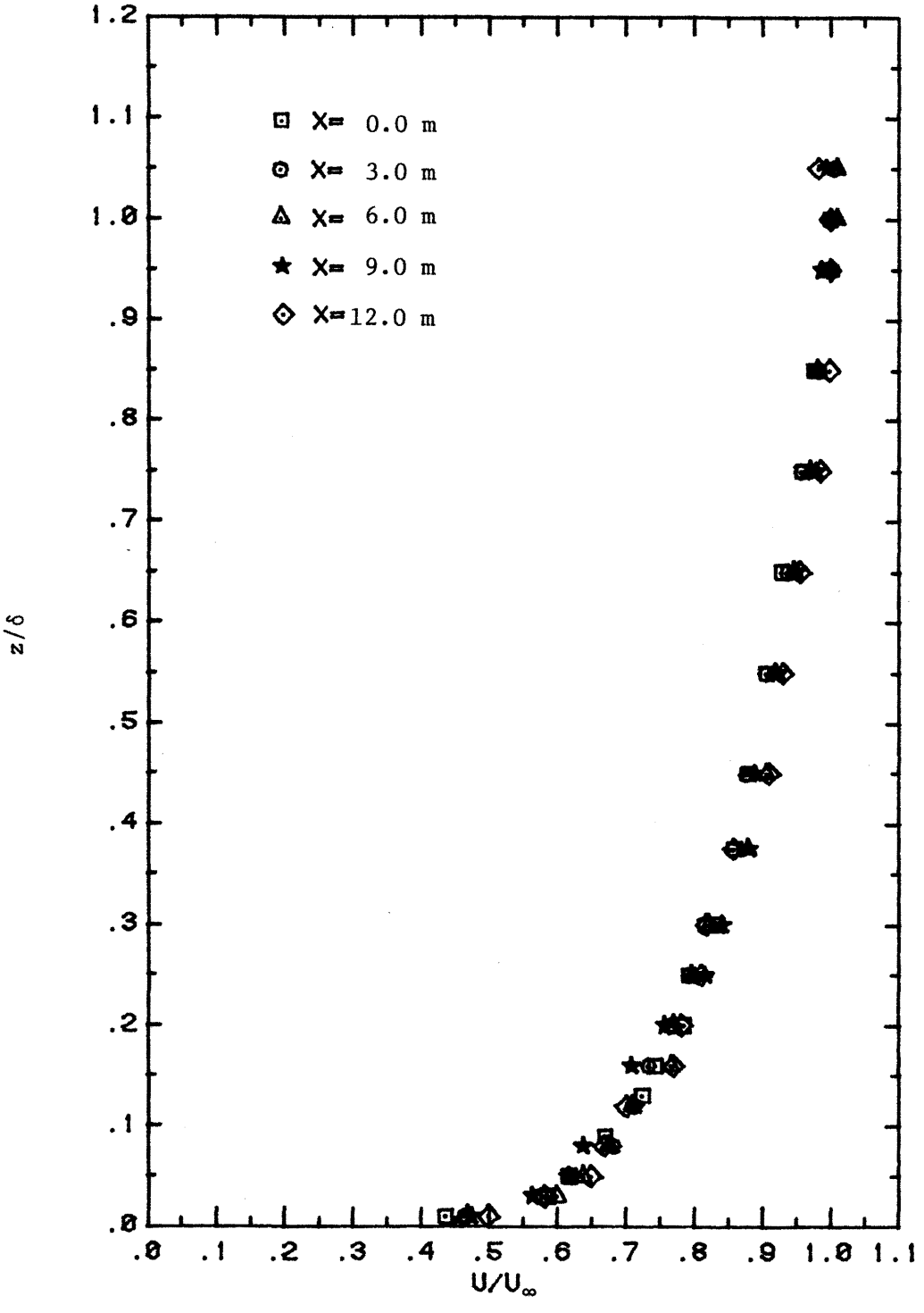


Figure 4.1. Mean velocity profiles for the simulated boundary layer.

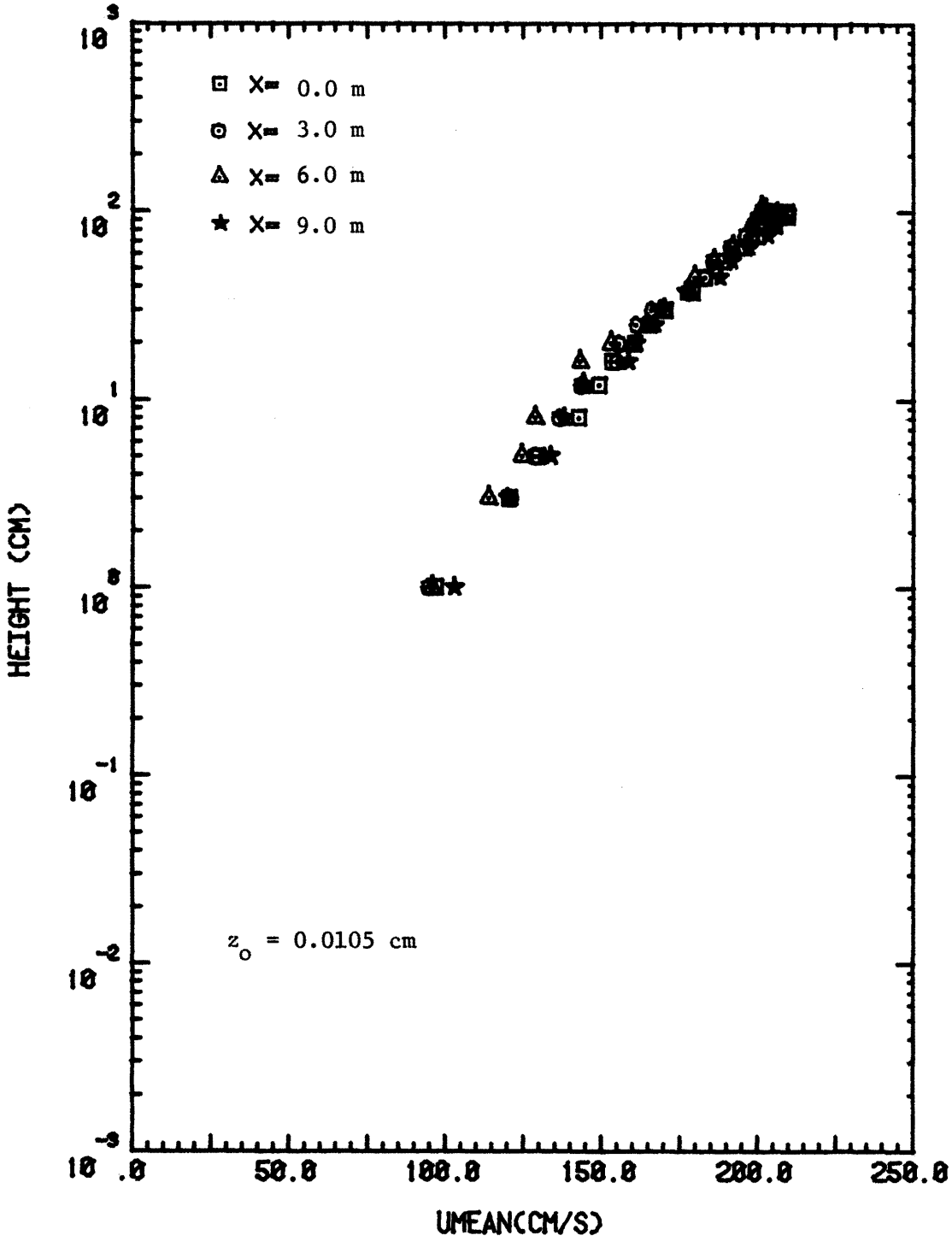


Figure 4.2. Mean velocity profiles in semi-log plot for the simulated boundary layer.

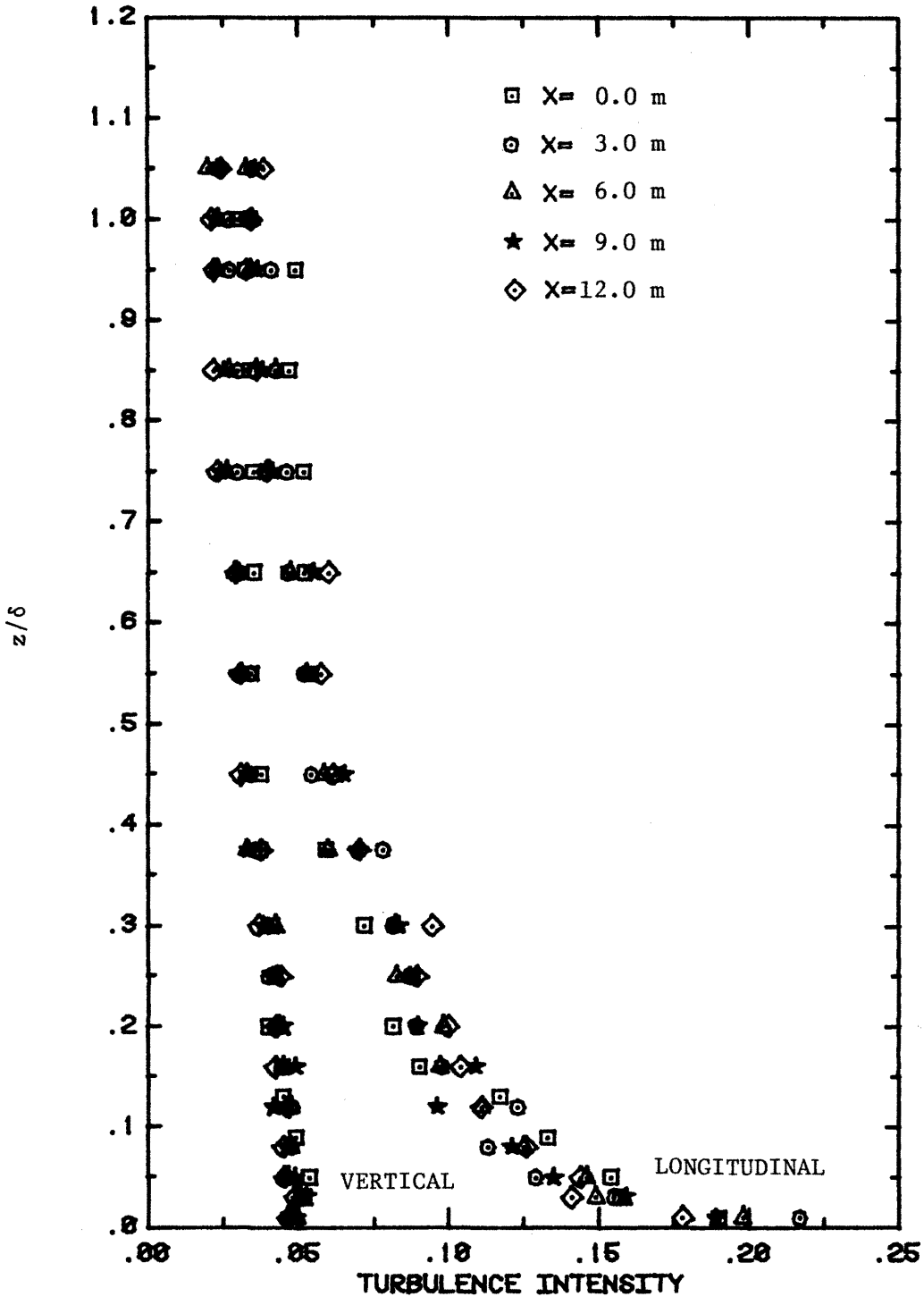


Figure 4.3. Turbulence intensity profiles for the simulated boundary layer.

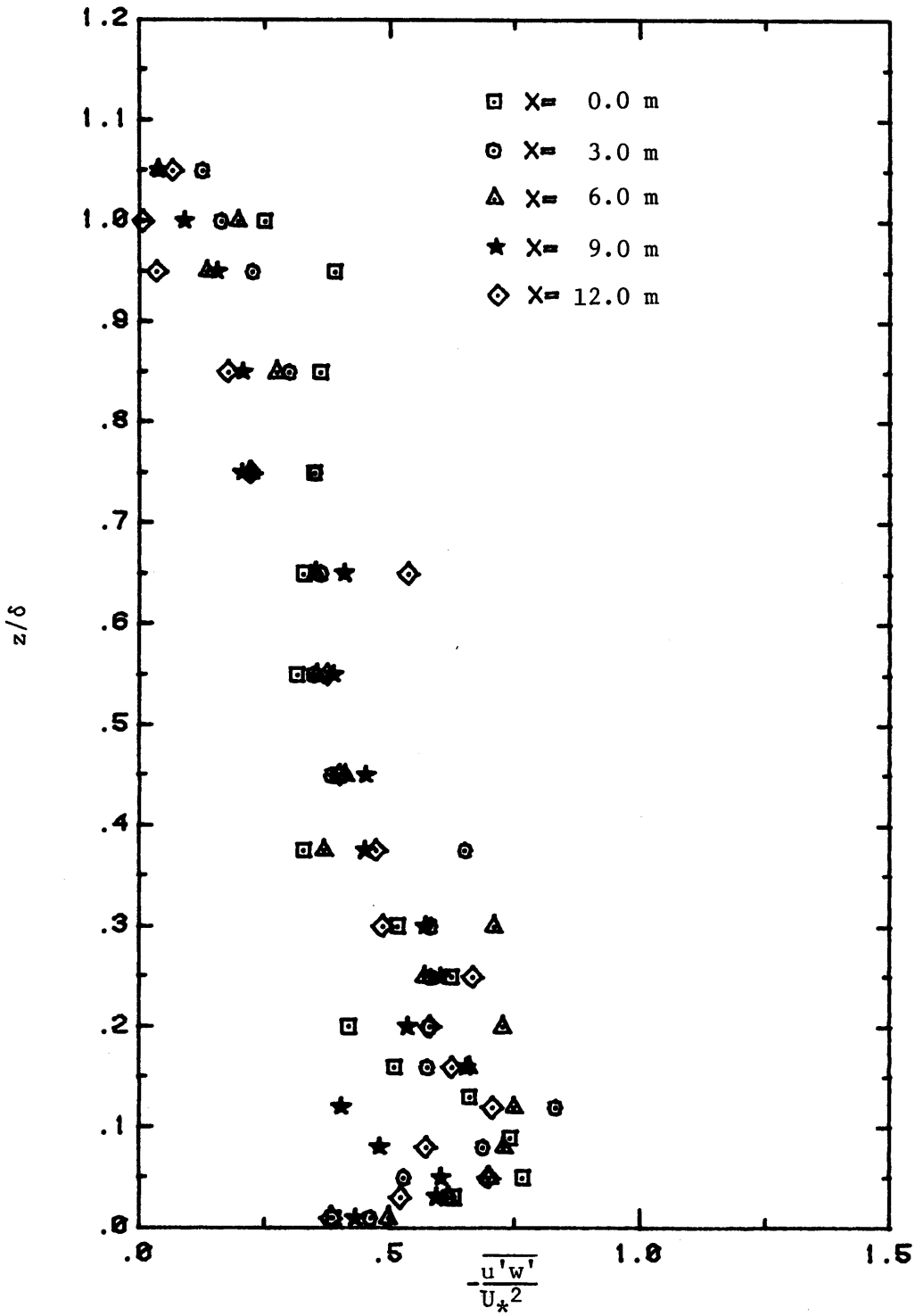


Figure 4.4. Turbulent shear stress profiles for the simulated boundary layer.

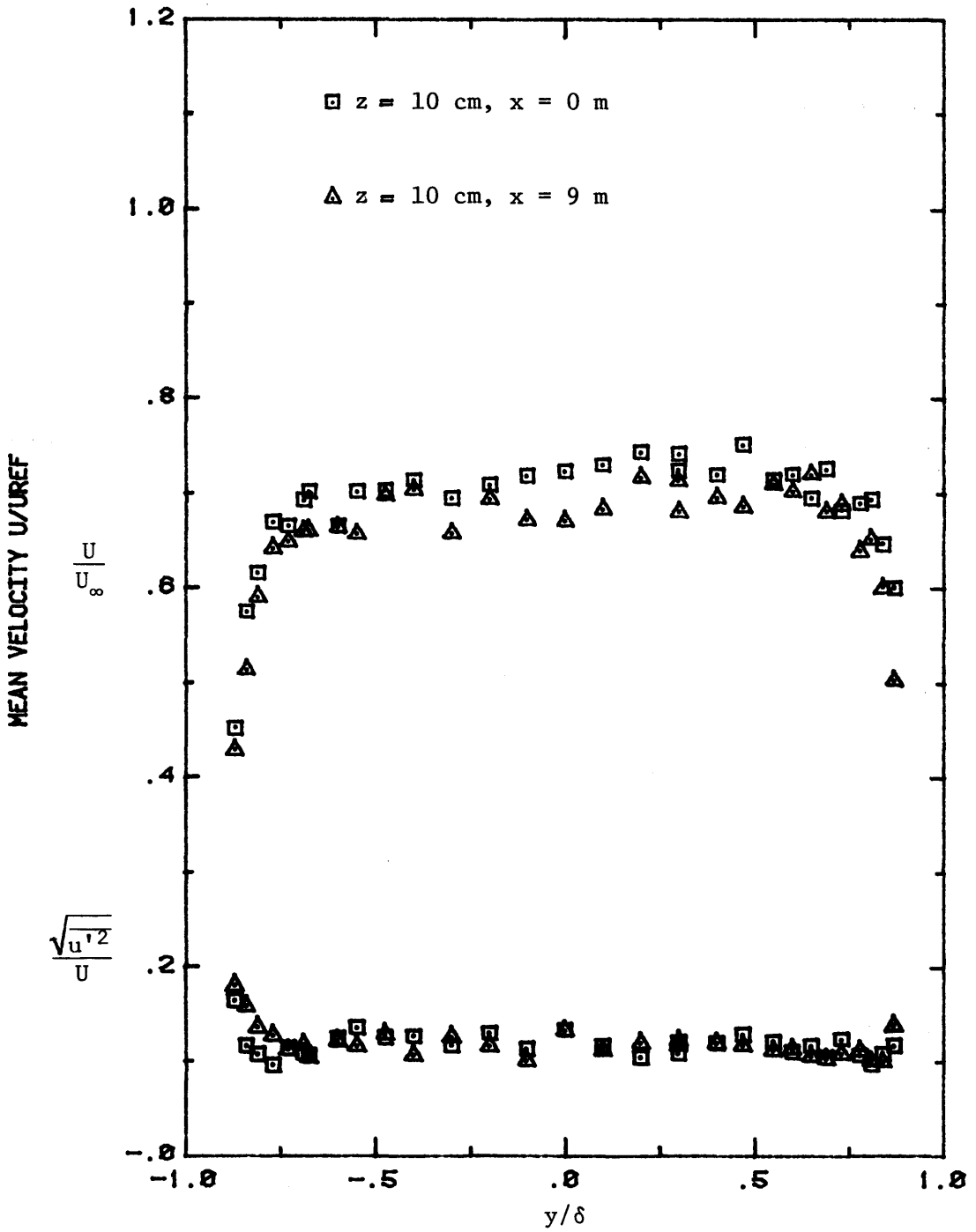


Figure 4.5. Lateral mean velocity and turbulence intensity profiles for the simulated boundary layer.

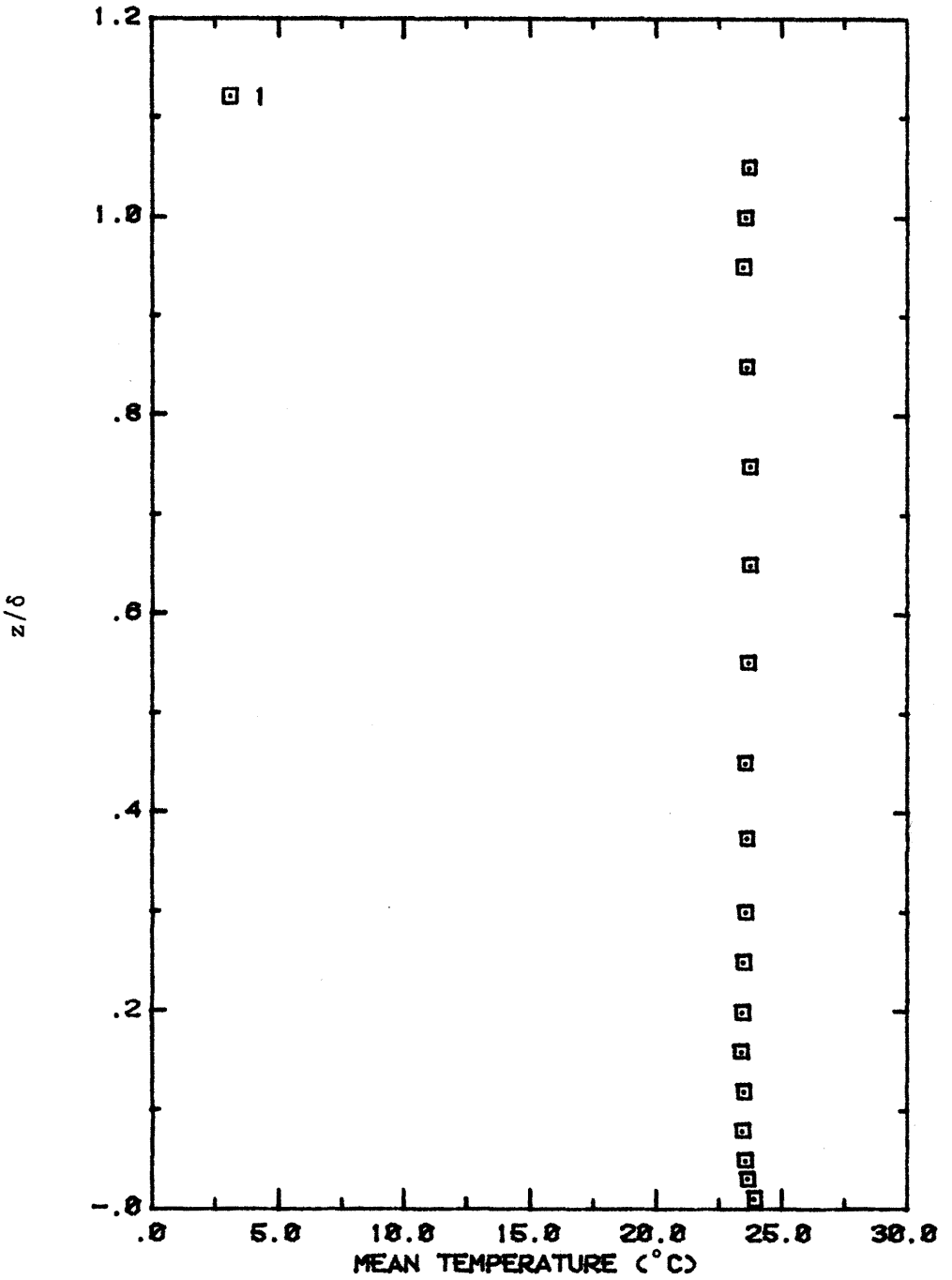


Figure 4.6. Mean temperature profile for the simulated boundary layer.

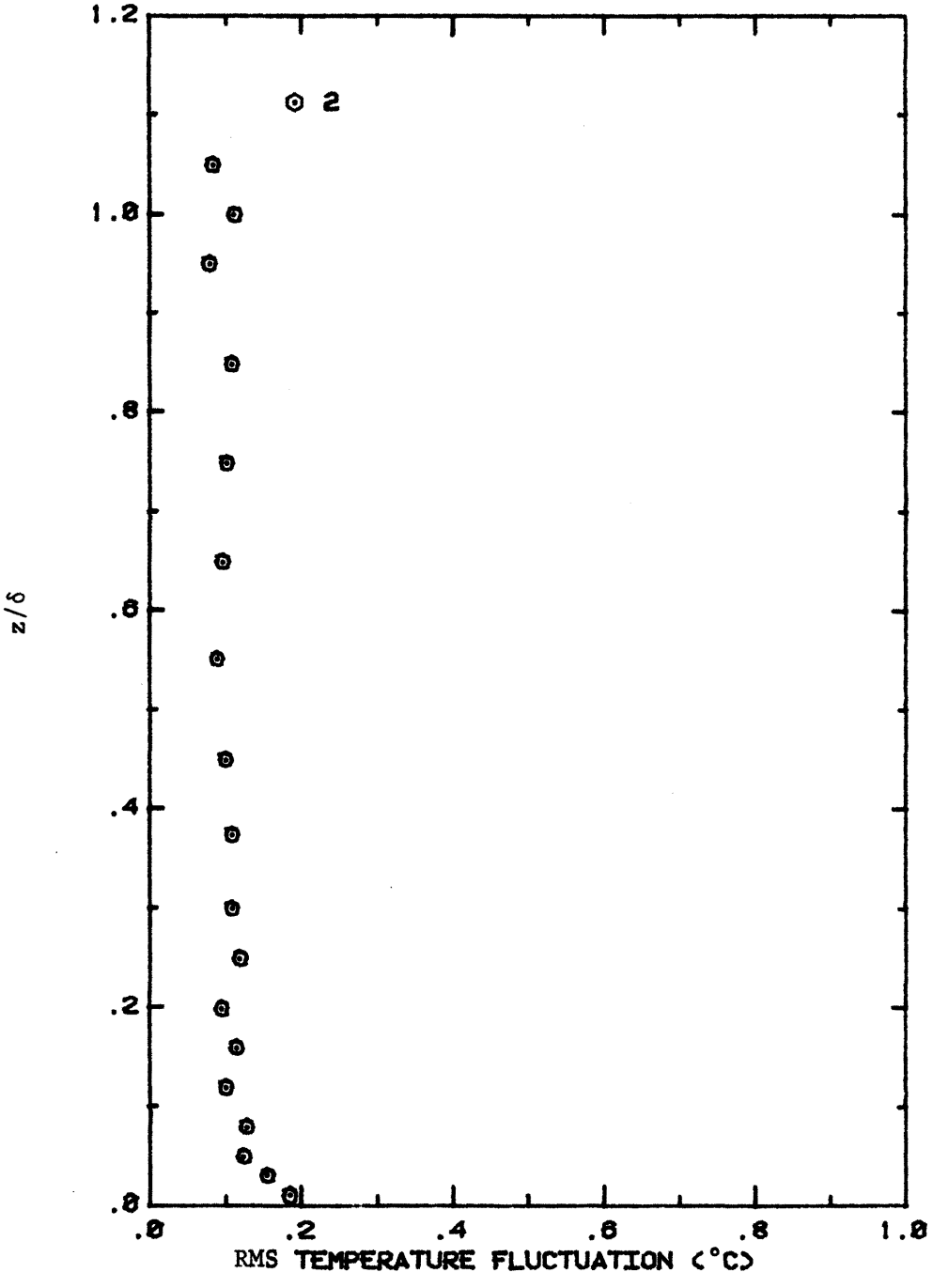


Figure 4.7. Temperature fluctuation profile for the simulated boundary layer.

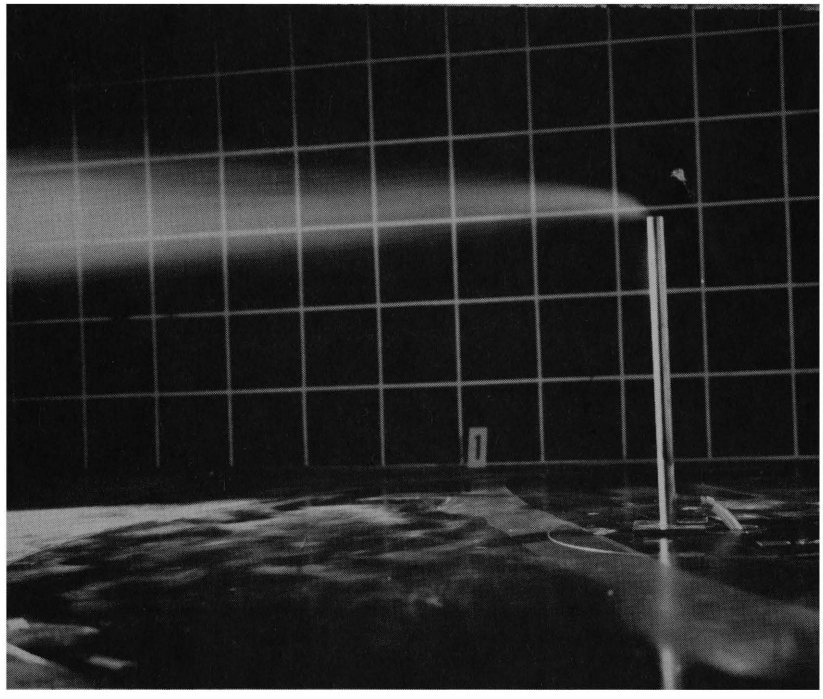


Figure 4.8. Flow visualization: atmospheric dispersion comparability test, H_s = 100 m.

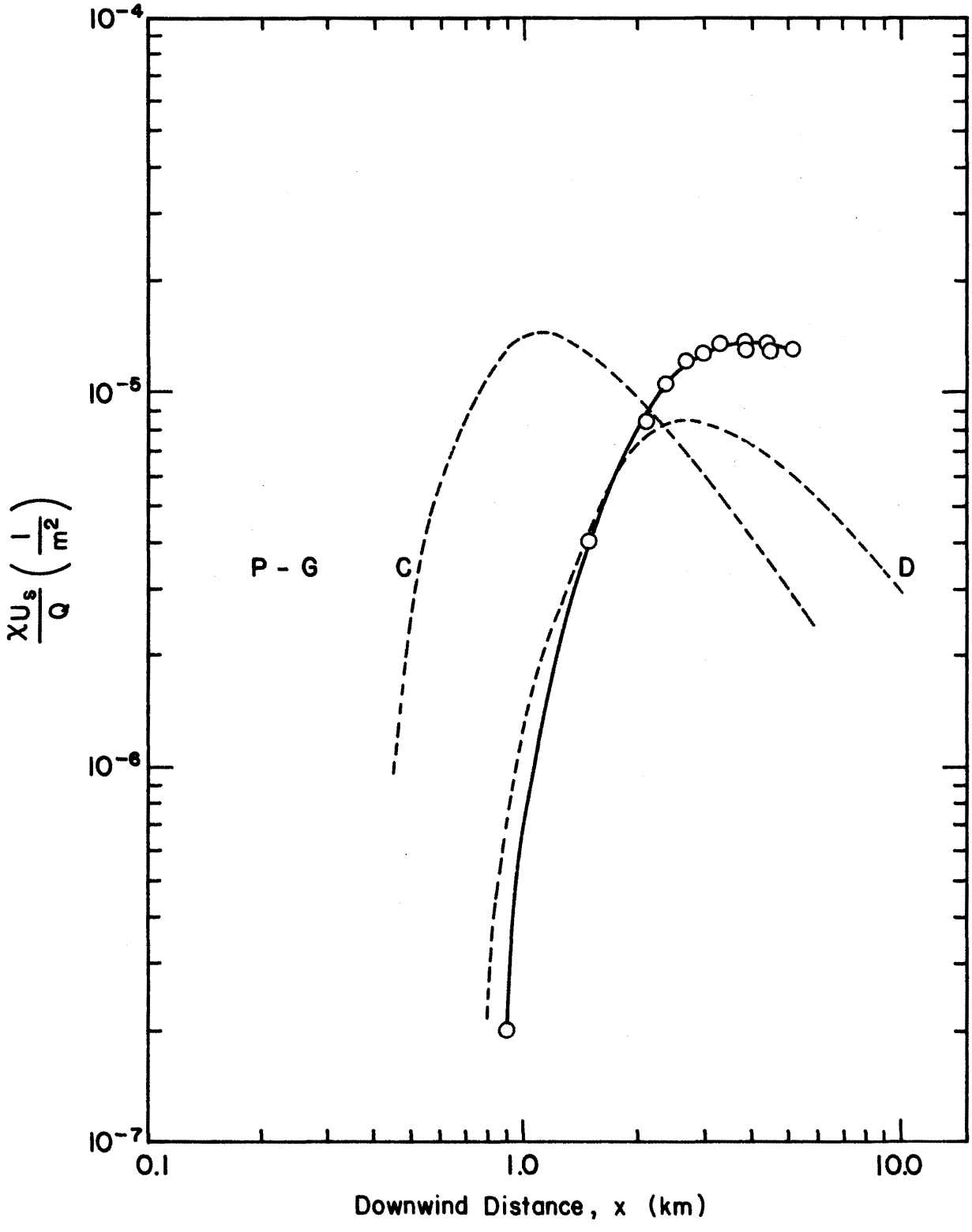


Figure 4.9. Ground-level concentration profile compared with Pasquill-Gifford C and D stability, H_s = 100 m.

(a)

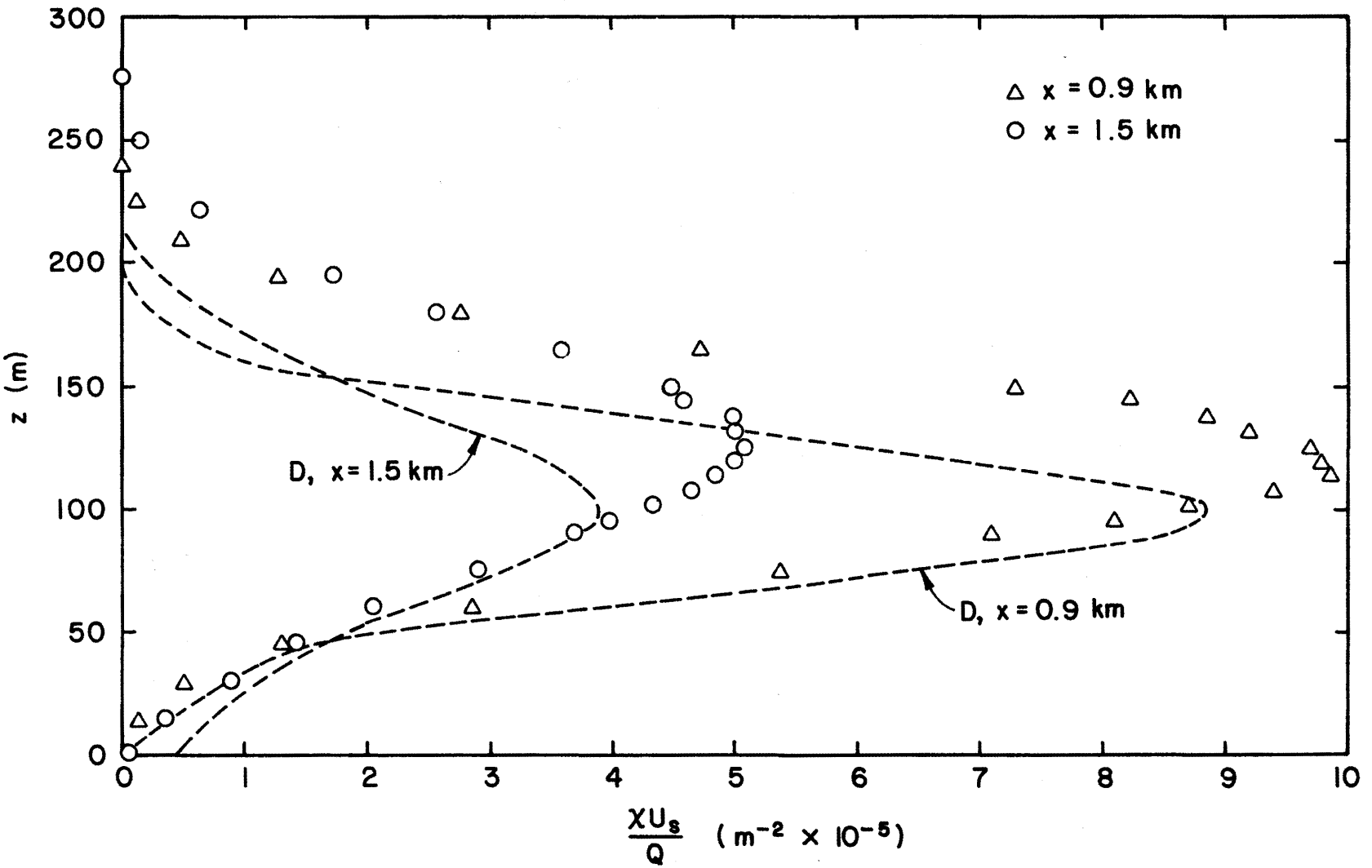


Figure 4.10. Vertical concentration profiles compared with Pasquill-Gifford D stability, H_s = 100 m.

(b)

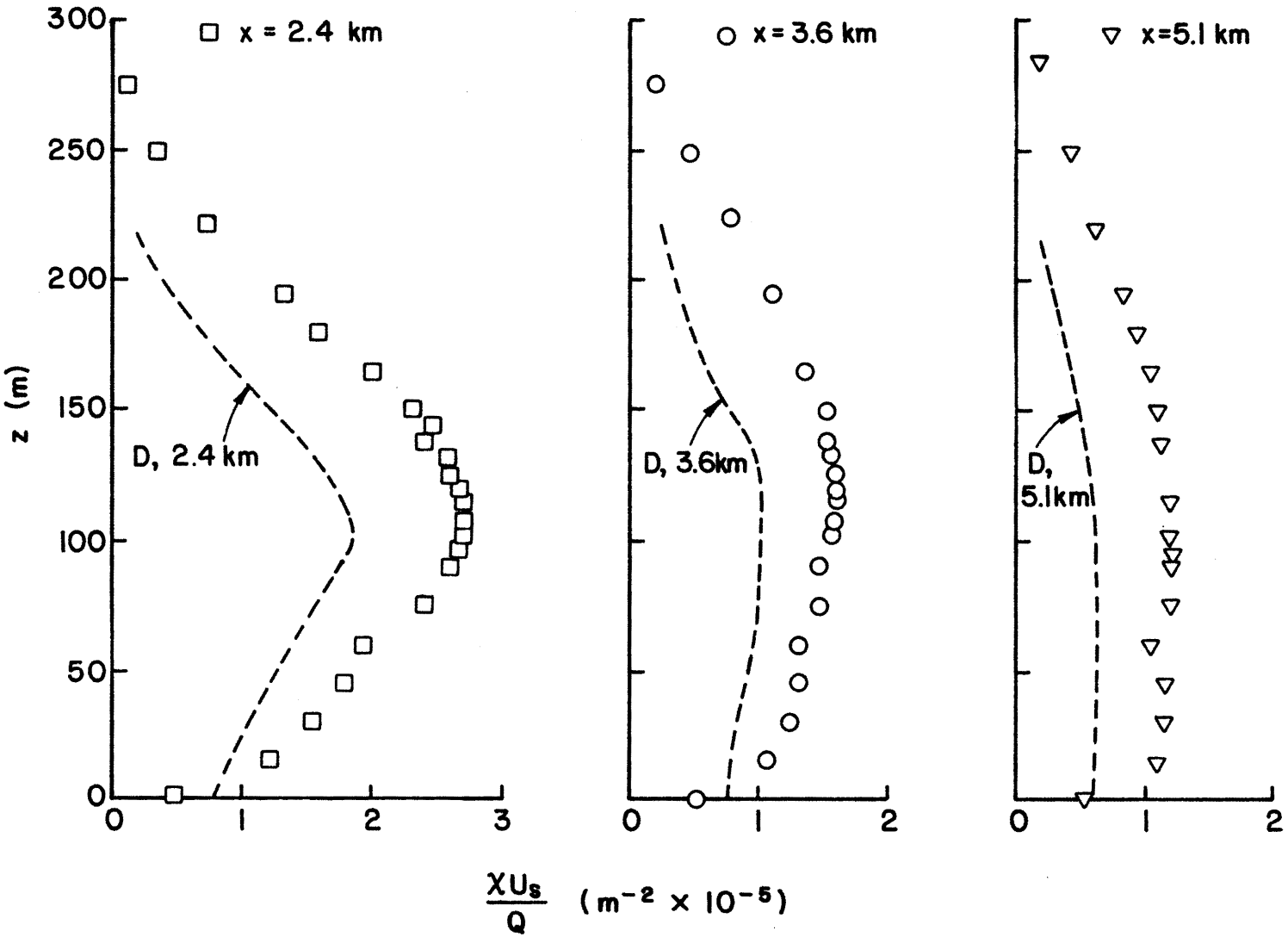


Figure 4.10. (continued)

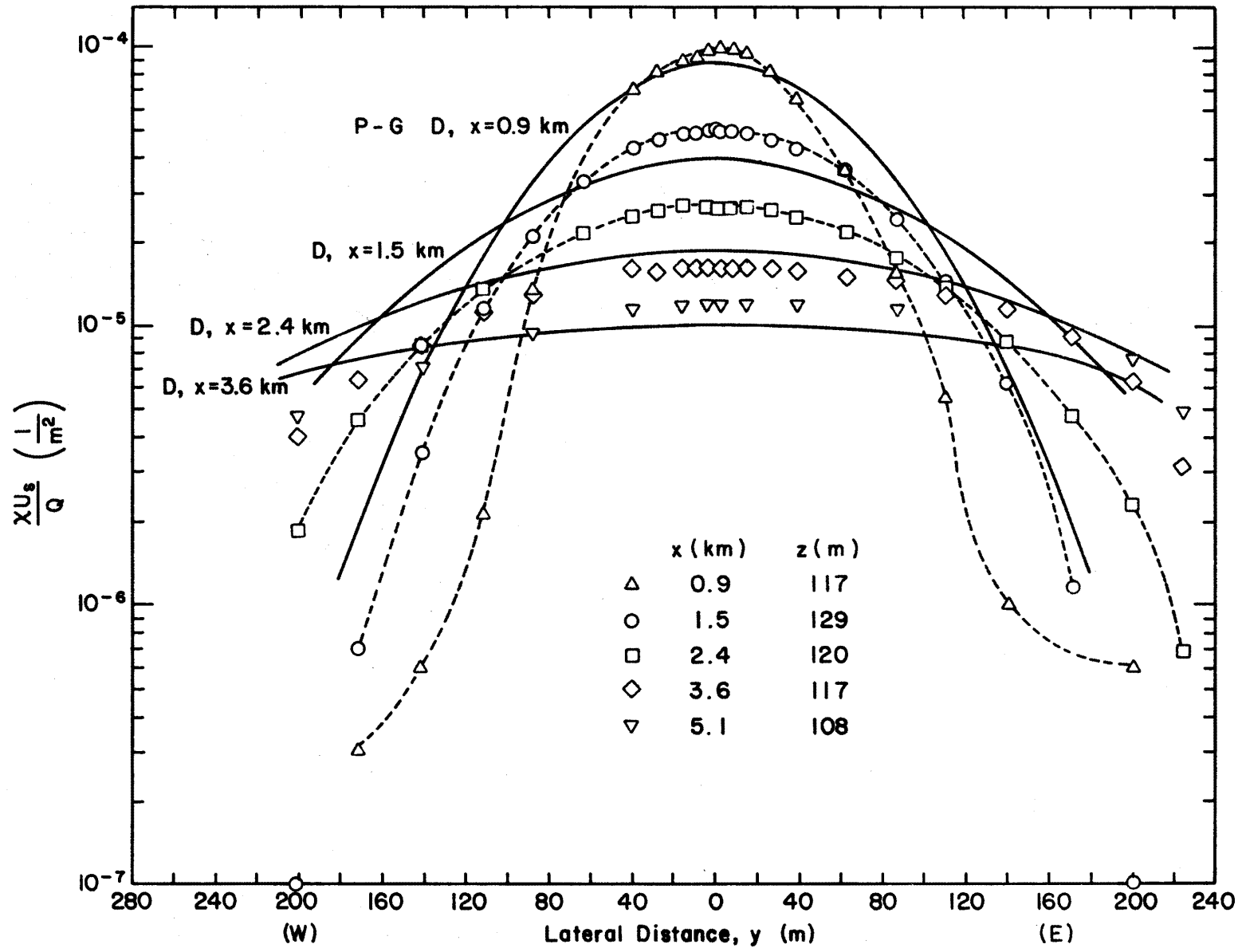
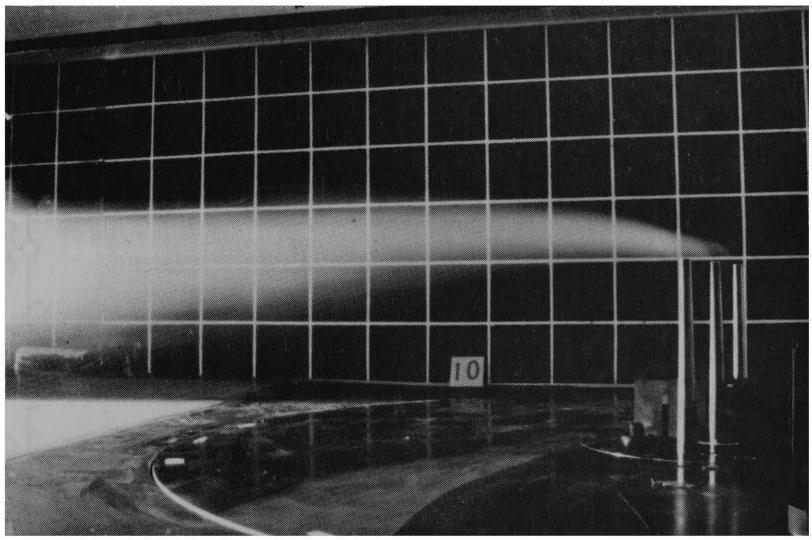


Figure 4.11. Lateral concentration profiles compared with Pasquill-Gifford D stability, H_s = 100 m.

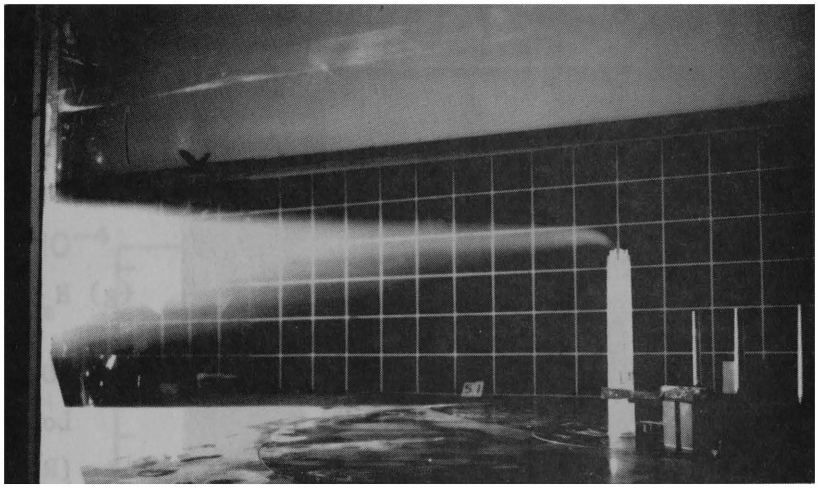


(a) H_s : 76.2 m
WD : 198°
Load : full
(Run 10)

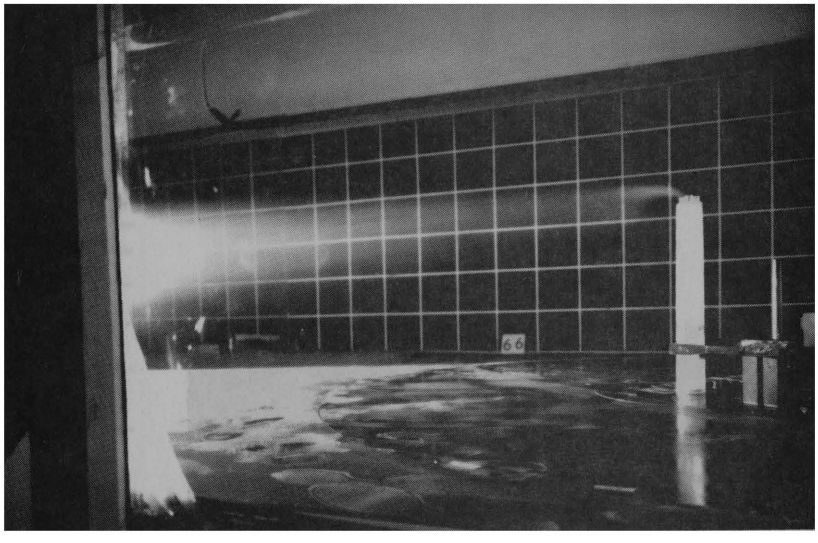
(b) H_s : 76.2 m
WD : 198°
Load : min
(Run 16)

(c) H_s : 117.3 m
WD : 198°
Load : full
(Run 41)

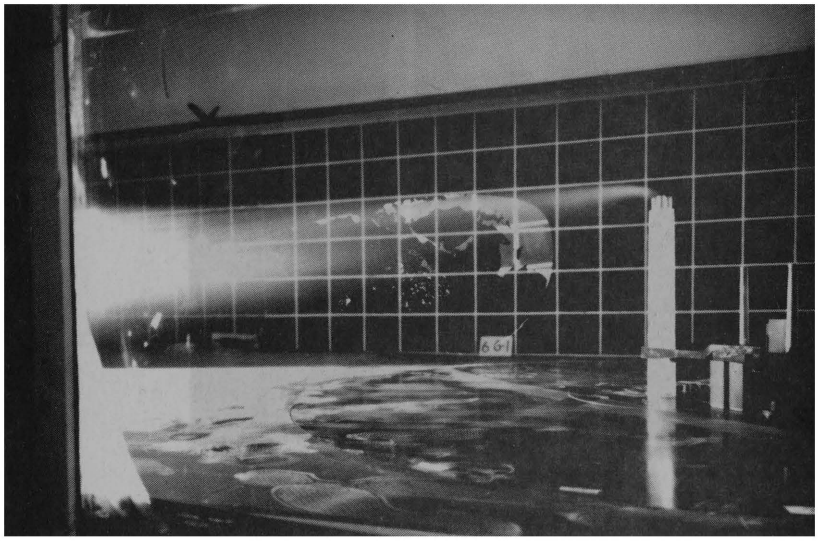
Figure 5.1. Flow visualization: Runs 10, 16, 41, 51, 66, 66.1, 84 and 90.



(d) H_s : 117.3 m
WD : 270°
Load : full
(Run 51)

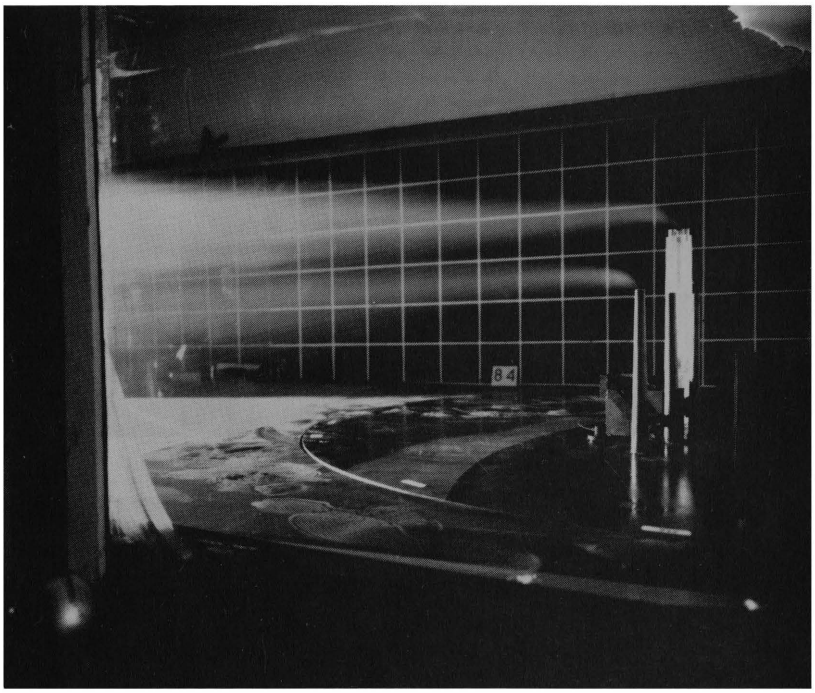


(e) H_s : 117.3 m
WD : 270°
Load : min
(Run 66)

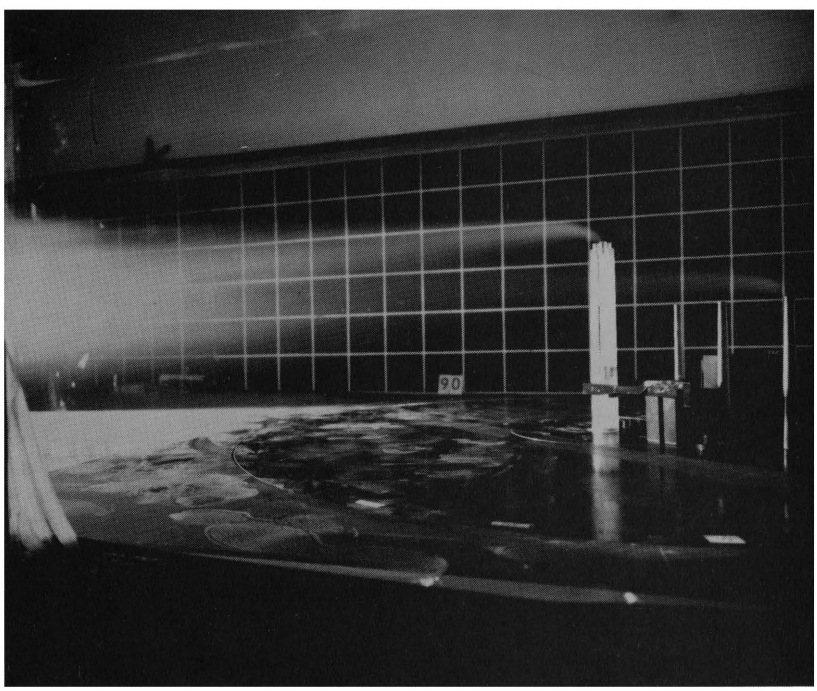


(f) H_s : 117.3 m
+ 3.8 m
WD : 270°
Load : min
(Run 66.1)

Figure 5.1. (continued)



(g) H_s : 76.2 m + 117.3 m
WD : 198°
Load : full
(Run 84)



(h) H_s : 76.2 m + 117.3 m
WD : 270°
Load : full
(Run 90)

Figure 5.1. (continued)

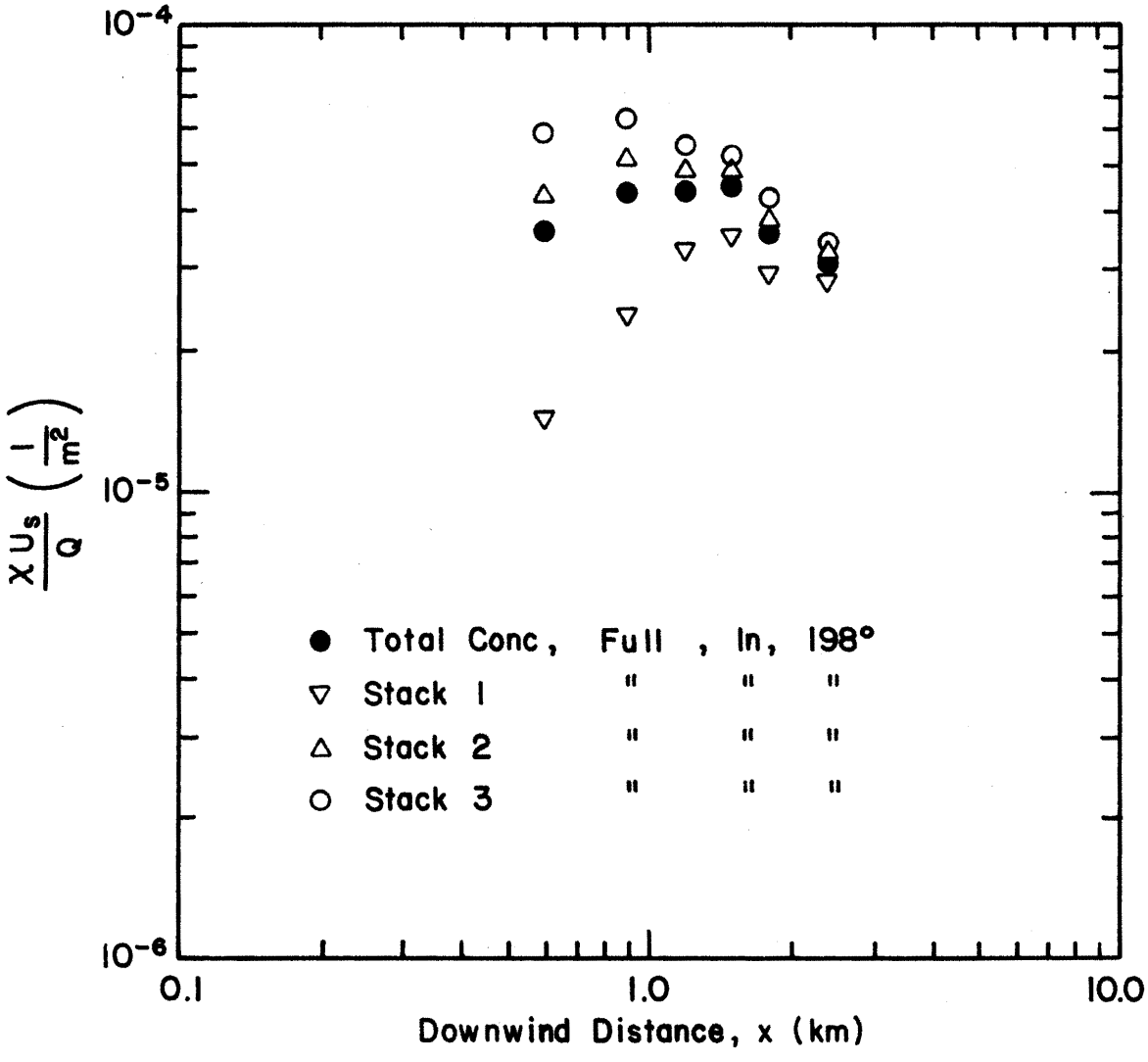


Figure 5.2. Longitudinal ground-level concentration profiles from the existing stacks; H_s = 76.2 m, full load, 198°.

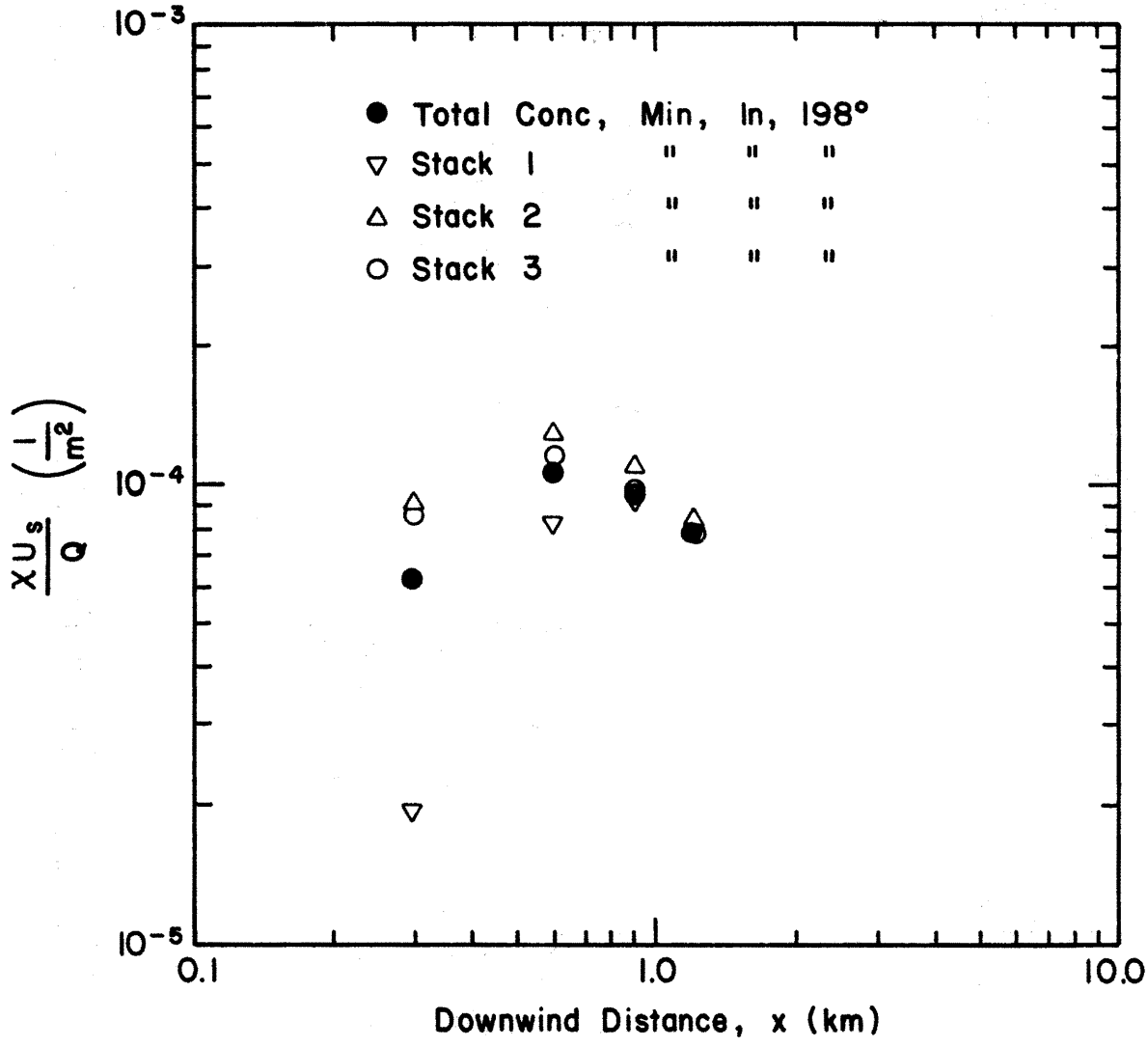


Figure 5.3. Longitudinal ground-level concentration profiles from the existing stacks; H_s = 76.2 m, min. load, 198°.

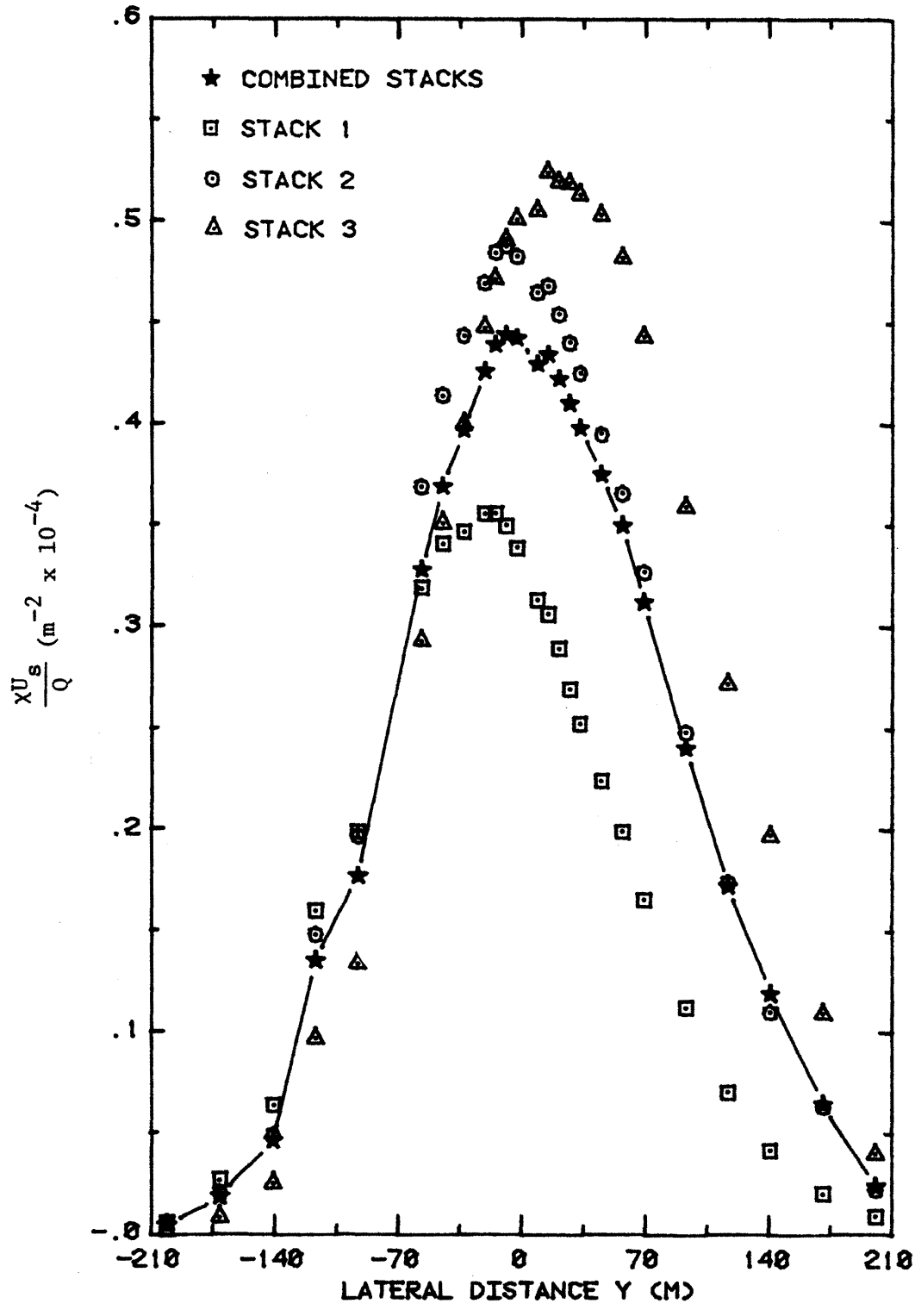


Figure 5.4. Lateral ground-level concentration profiles from the existing stacks; H_s = 76.2 m, full load, 198°, x = 1.5 km.

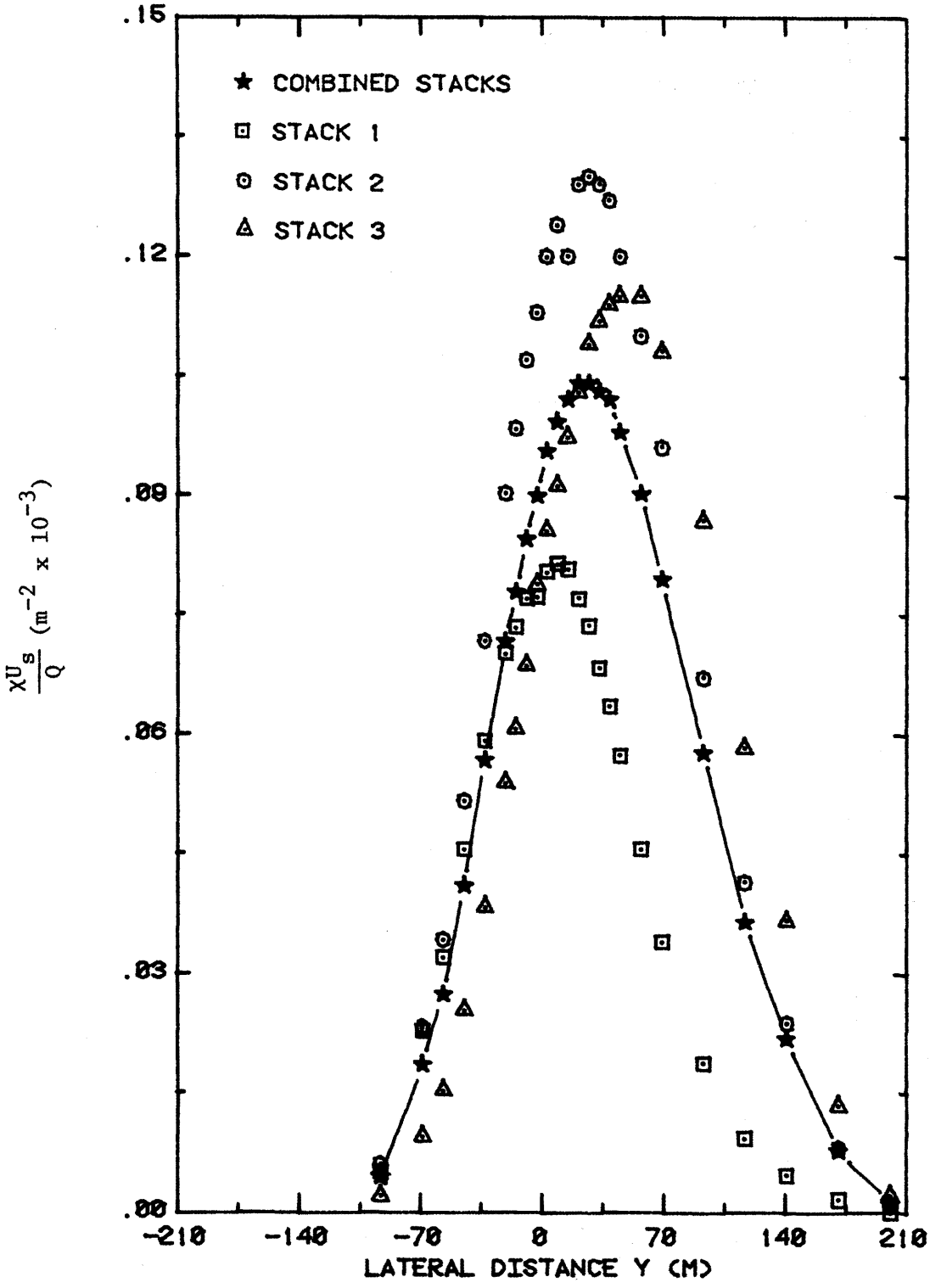


Figure 5.5. Lateral ground-level concentration profiles from the existing stacks; H_s = 76.2 m, min. load, 198°, x = 0.6 km.

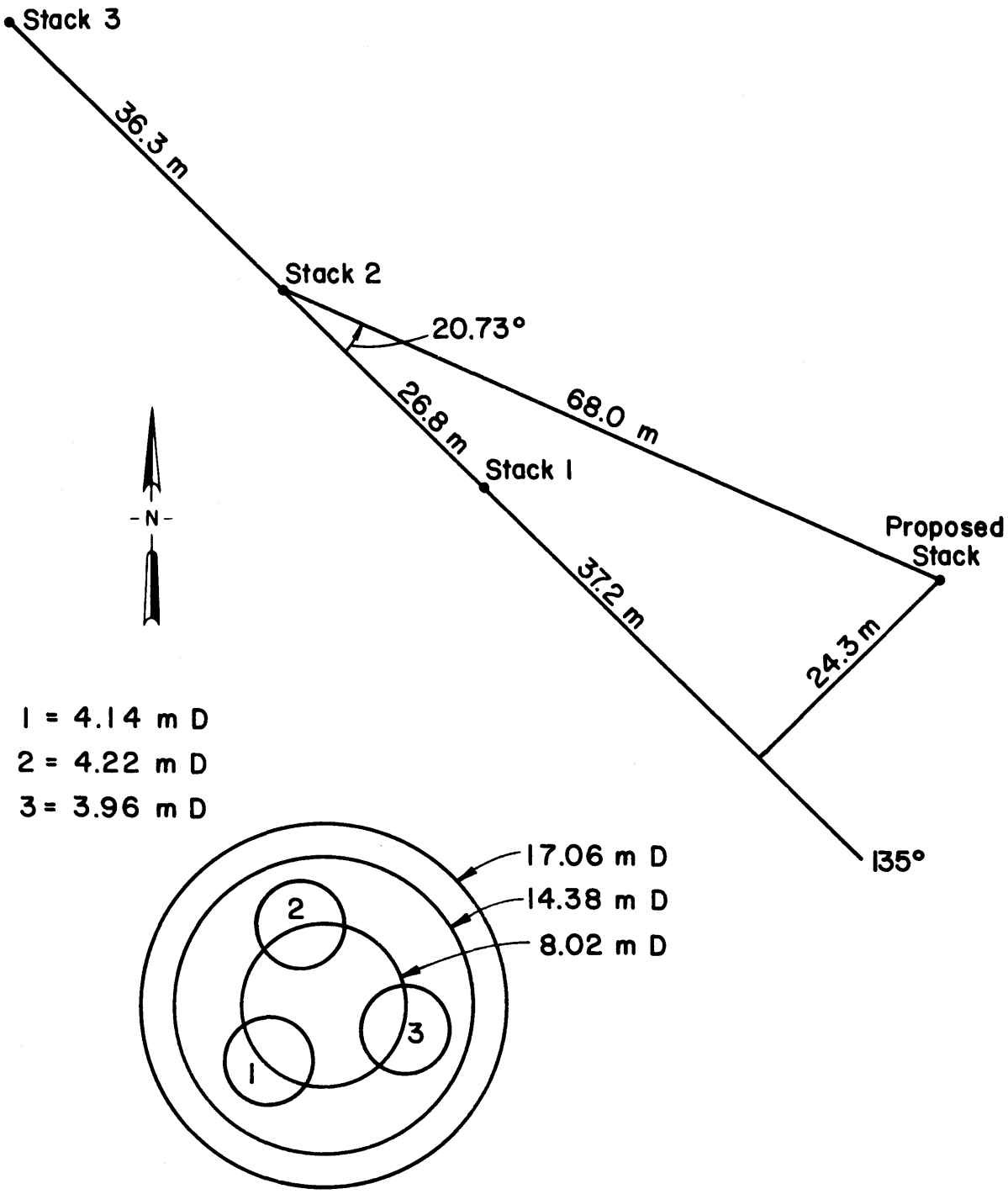


Figure 5.6. Configuration of stack locations and flue orientations.

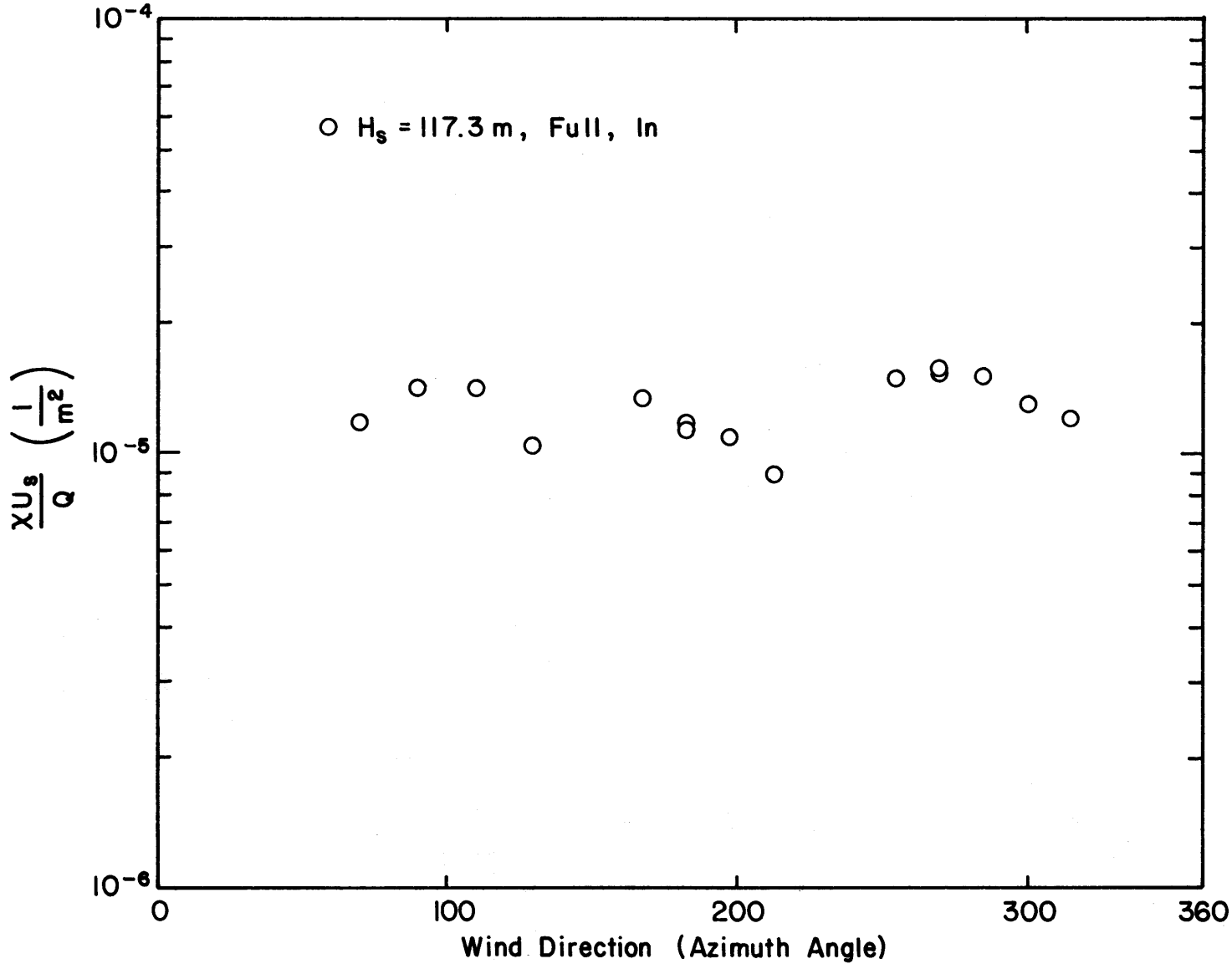


Figure 5.7. Maximum ground-level concentrations from various wind directions.

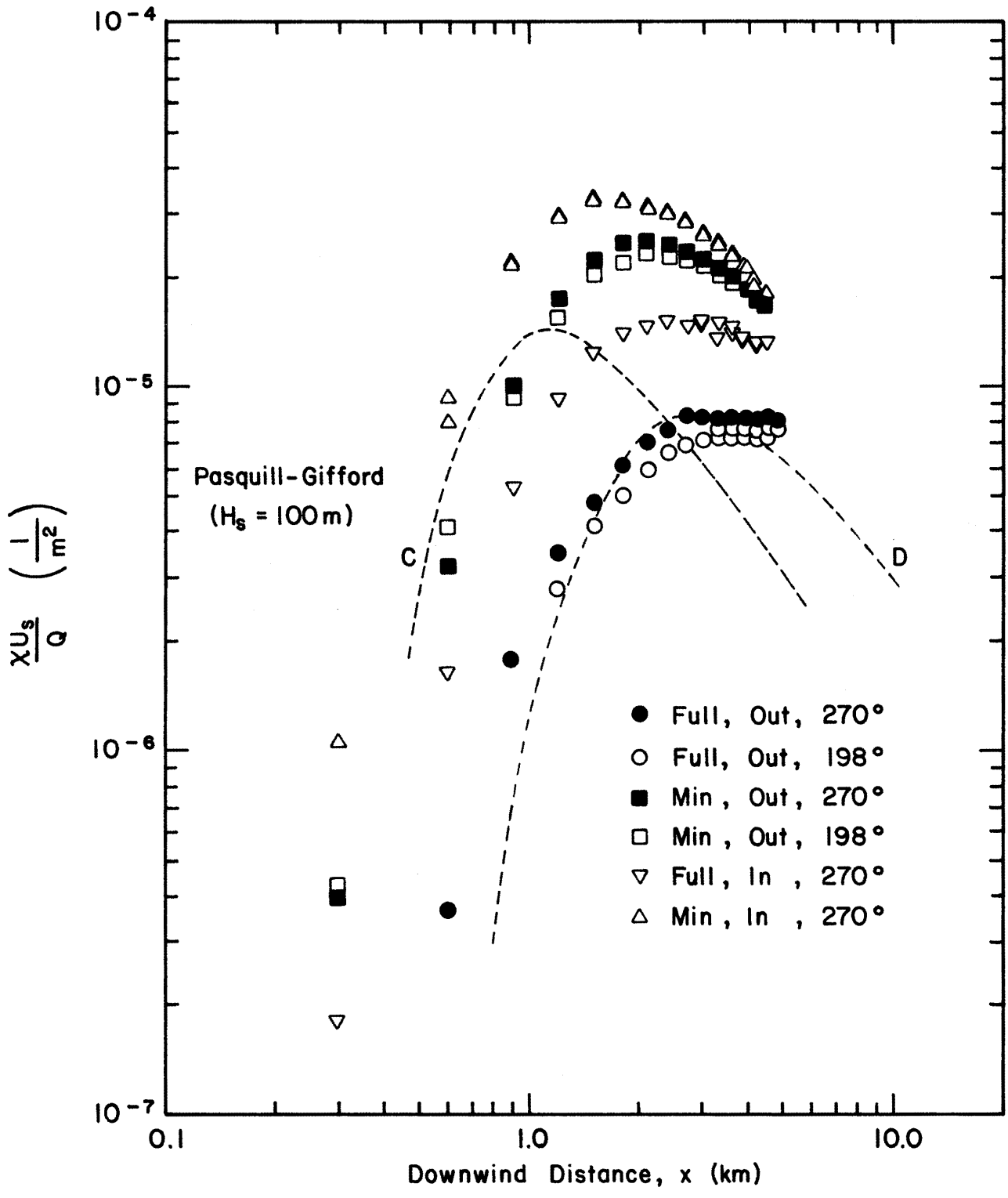


Figure 5.8. Ground-level concentration profiles with and without building, H_s = 117.3 m.

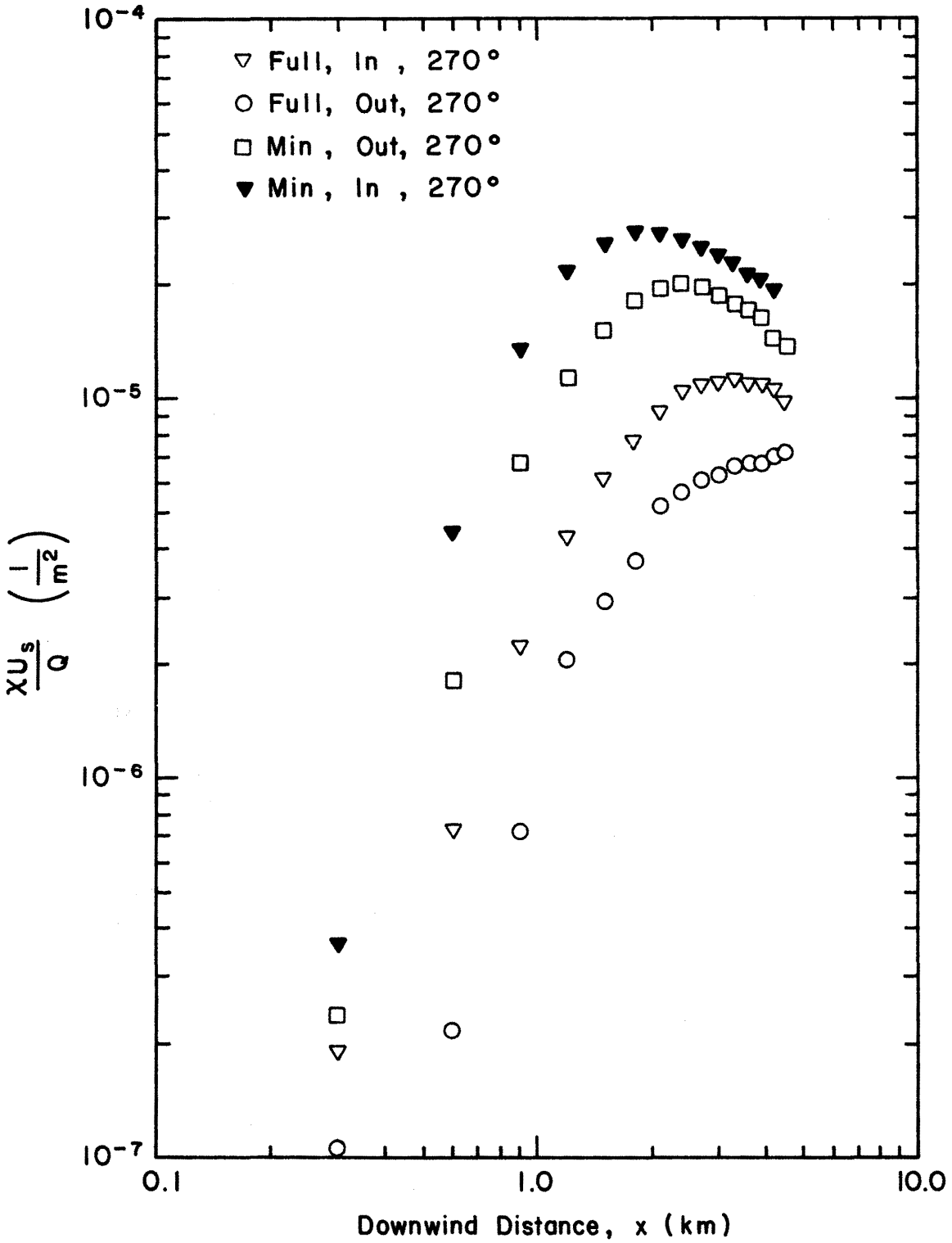


Figure 5.9. Ground-level concentration profiles with and without building, H_s = 132.6 m.

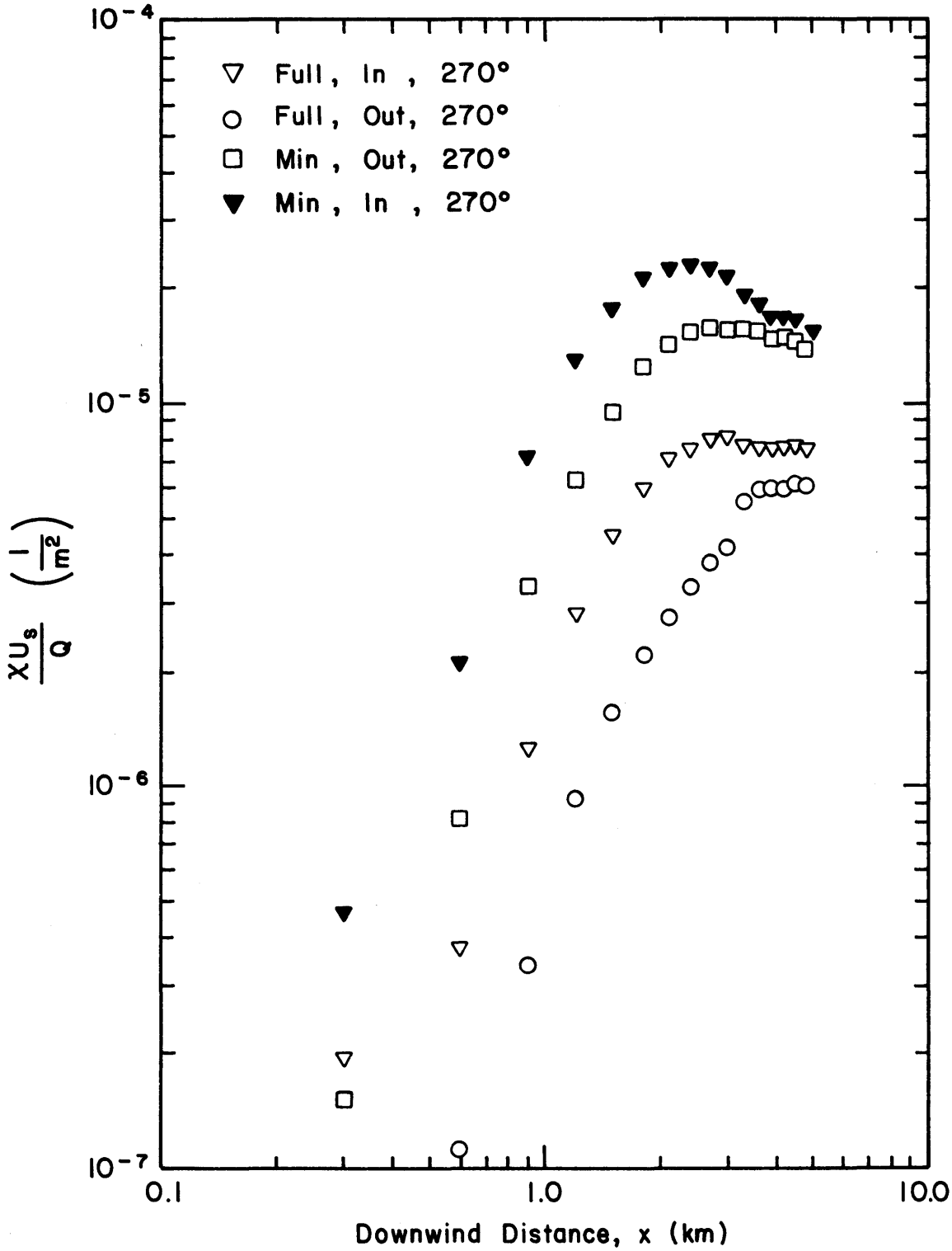


Figure 5.10. Ground-level concentration profiles with and without building, H_s = 147.8 m.

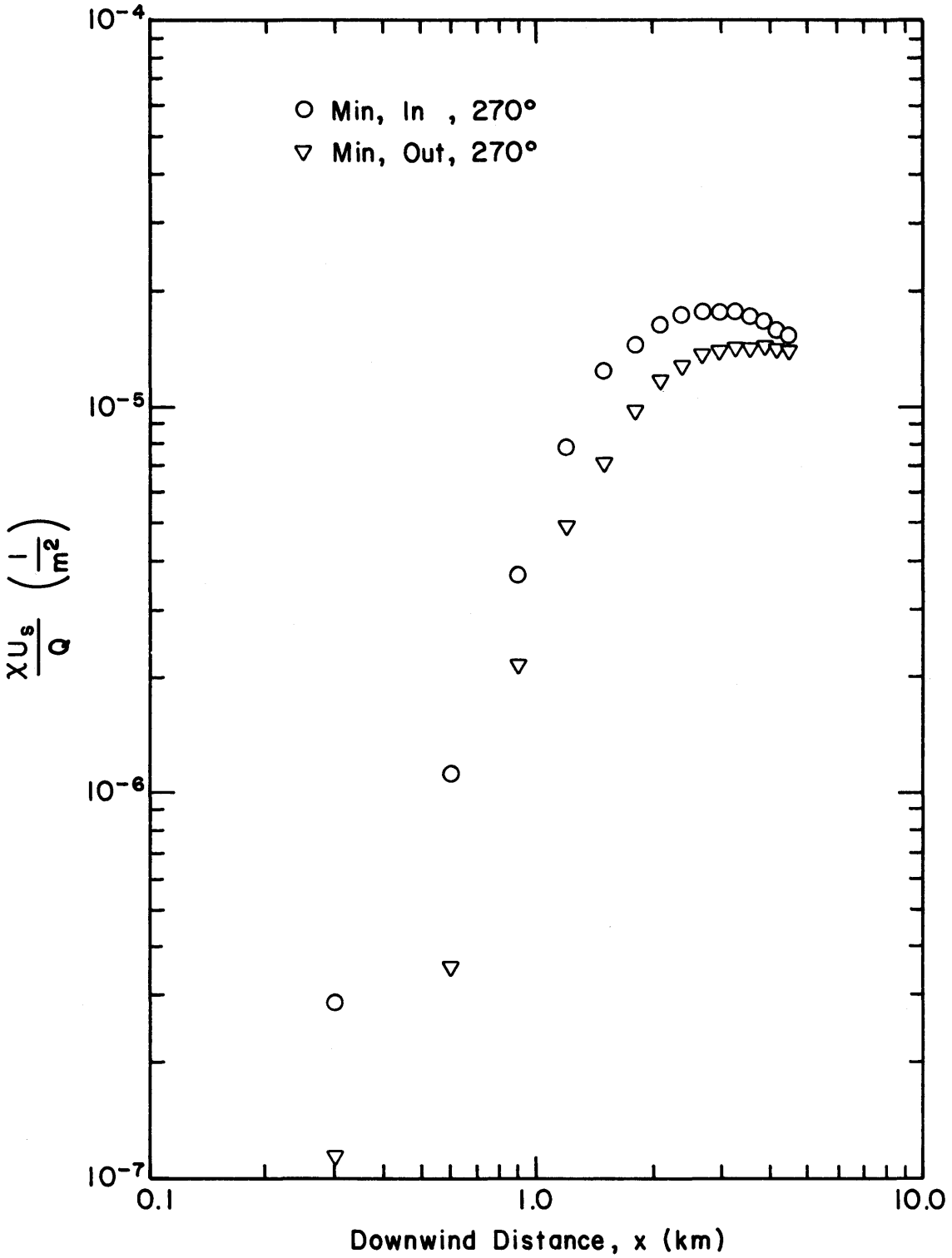


Figure 5.11. Ground-level concentration profiles with and without building, H_s = 163.1 m.

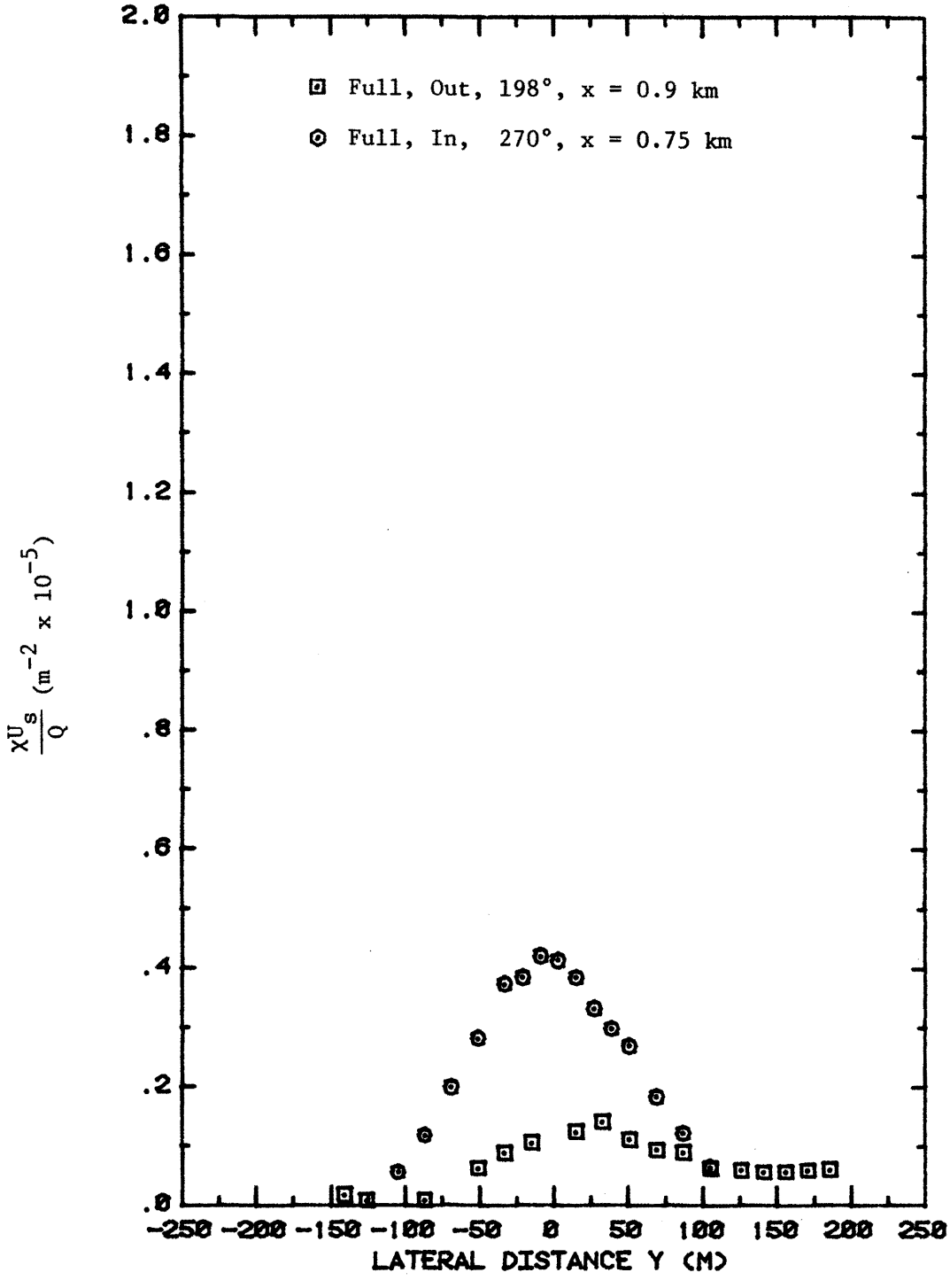


Figure 5.12. Lateral concentration profiles with and without building, H_s = 117.3 m.

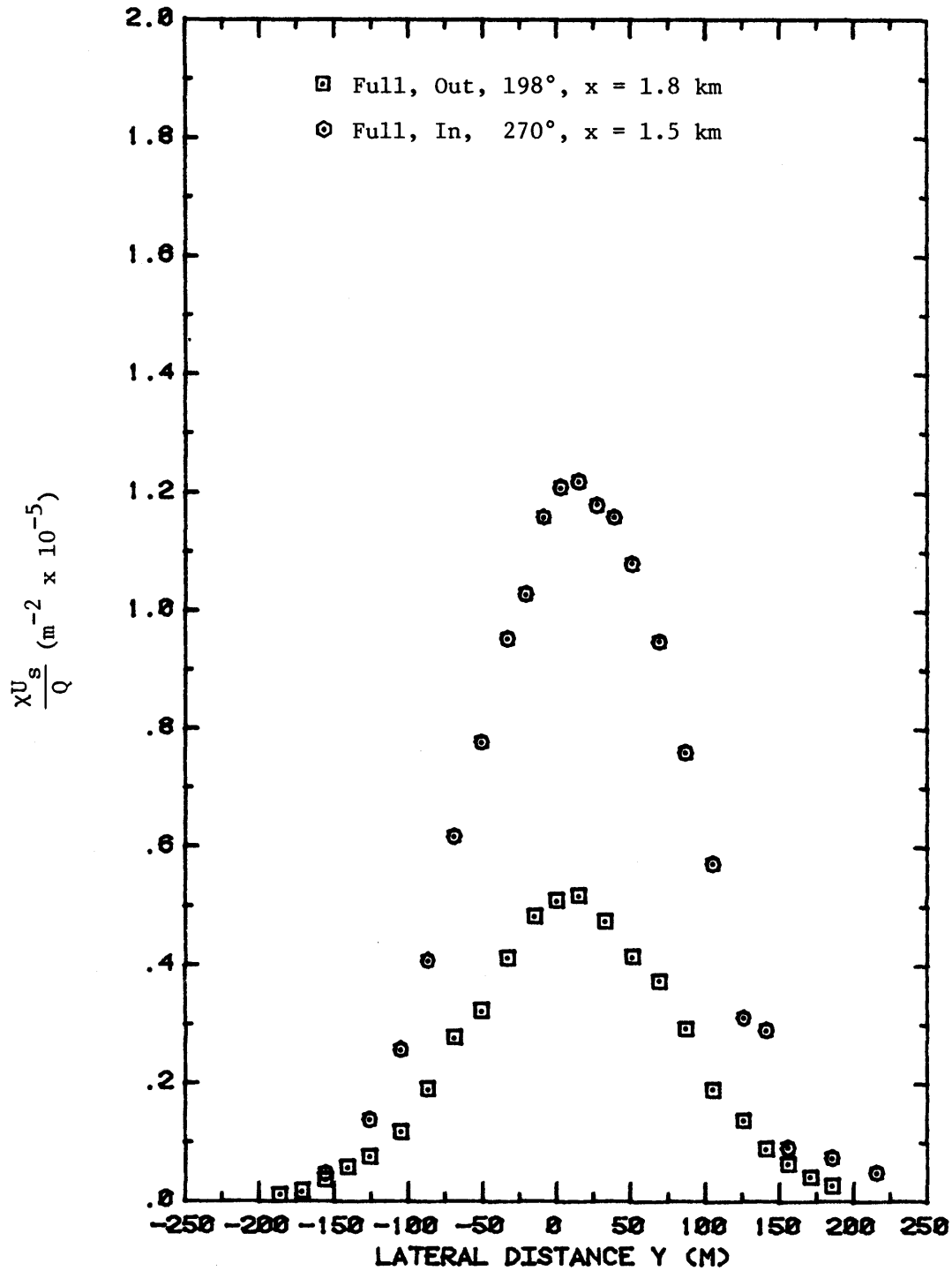


Figure 5.12. (continued)

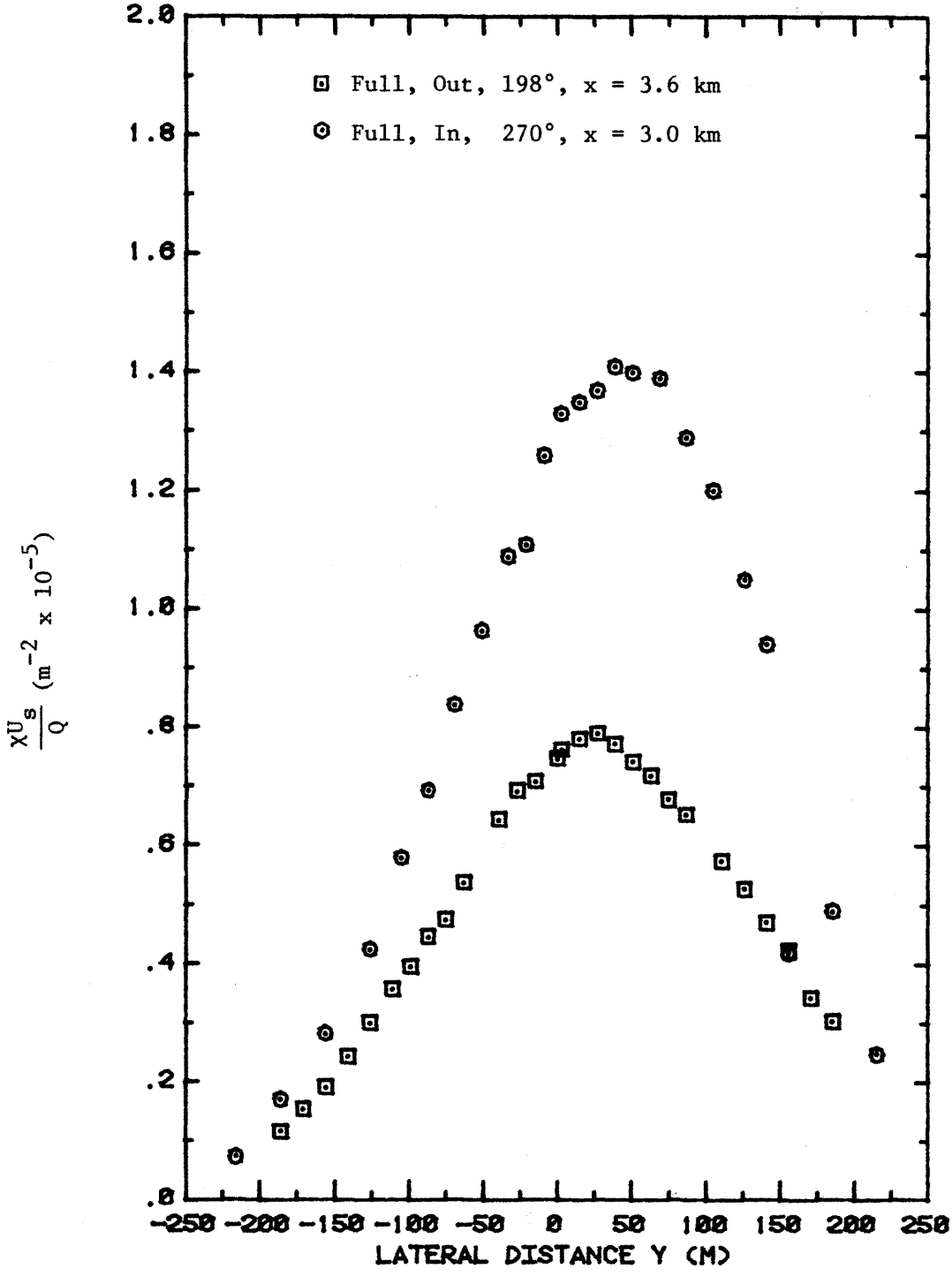


Figure 5.12. (continued)

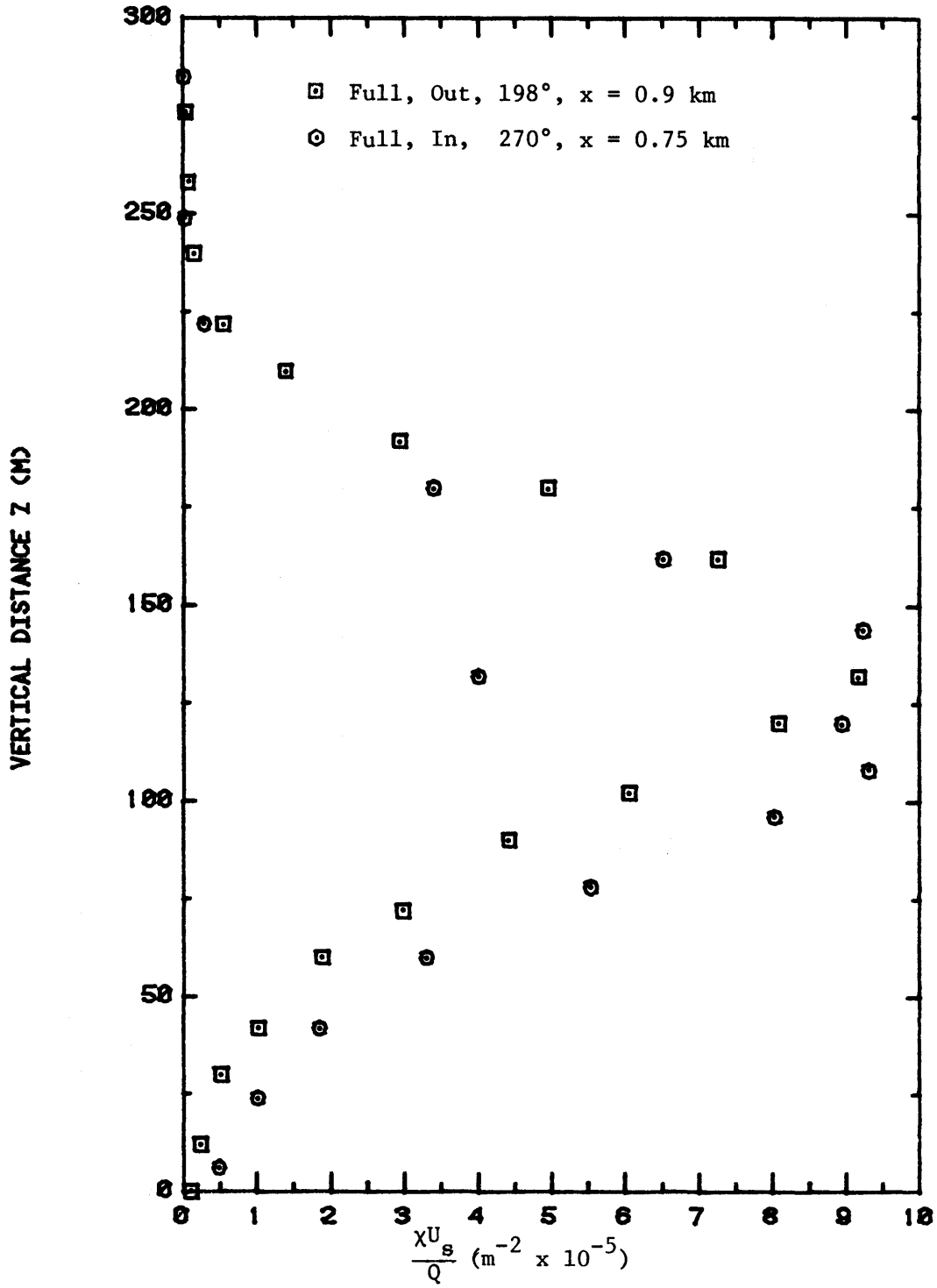


Figure 5.13. Vertical concentration profiles with and without building, H_s = 117.3 m.

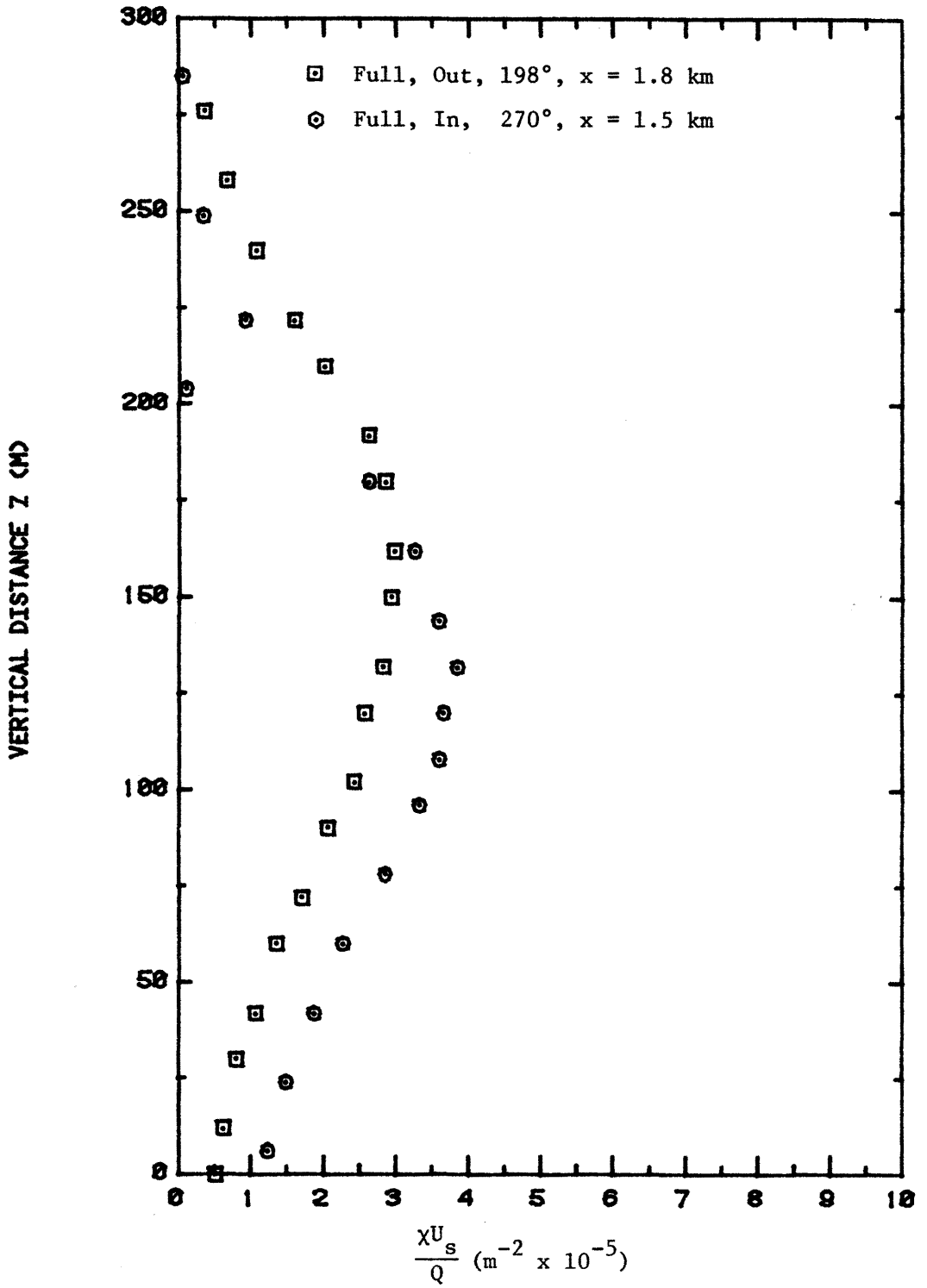


Figure 5.13. (continued)

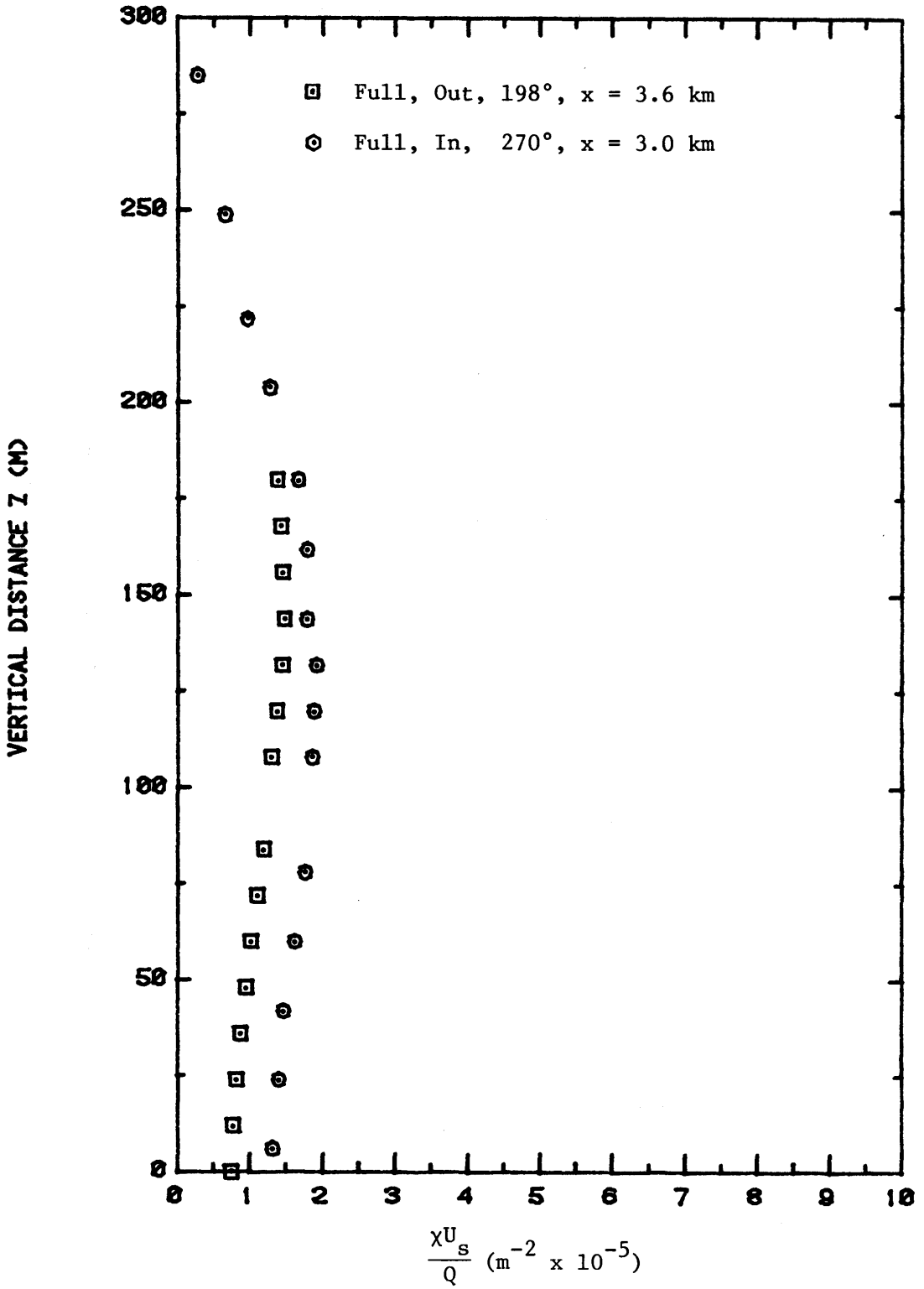


Figure 5.13. (continued)

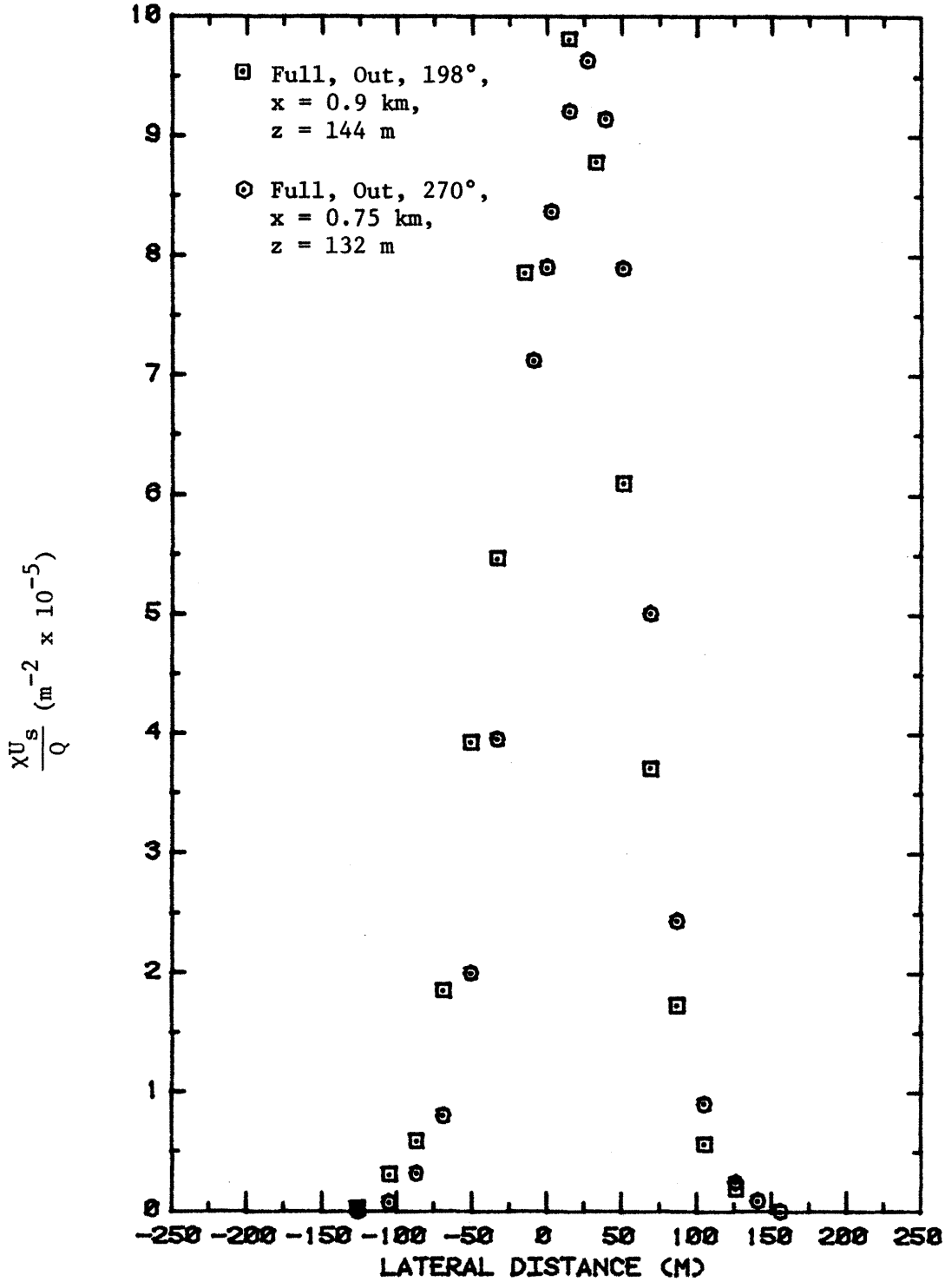


Figure 5.14. Lateral (elevated) concentration profiles with and without building, H_s = 117.3 m.

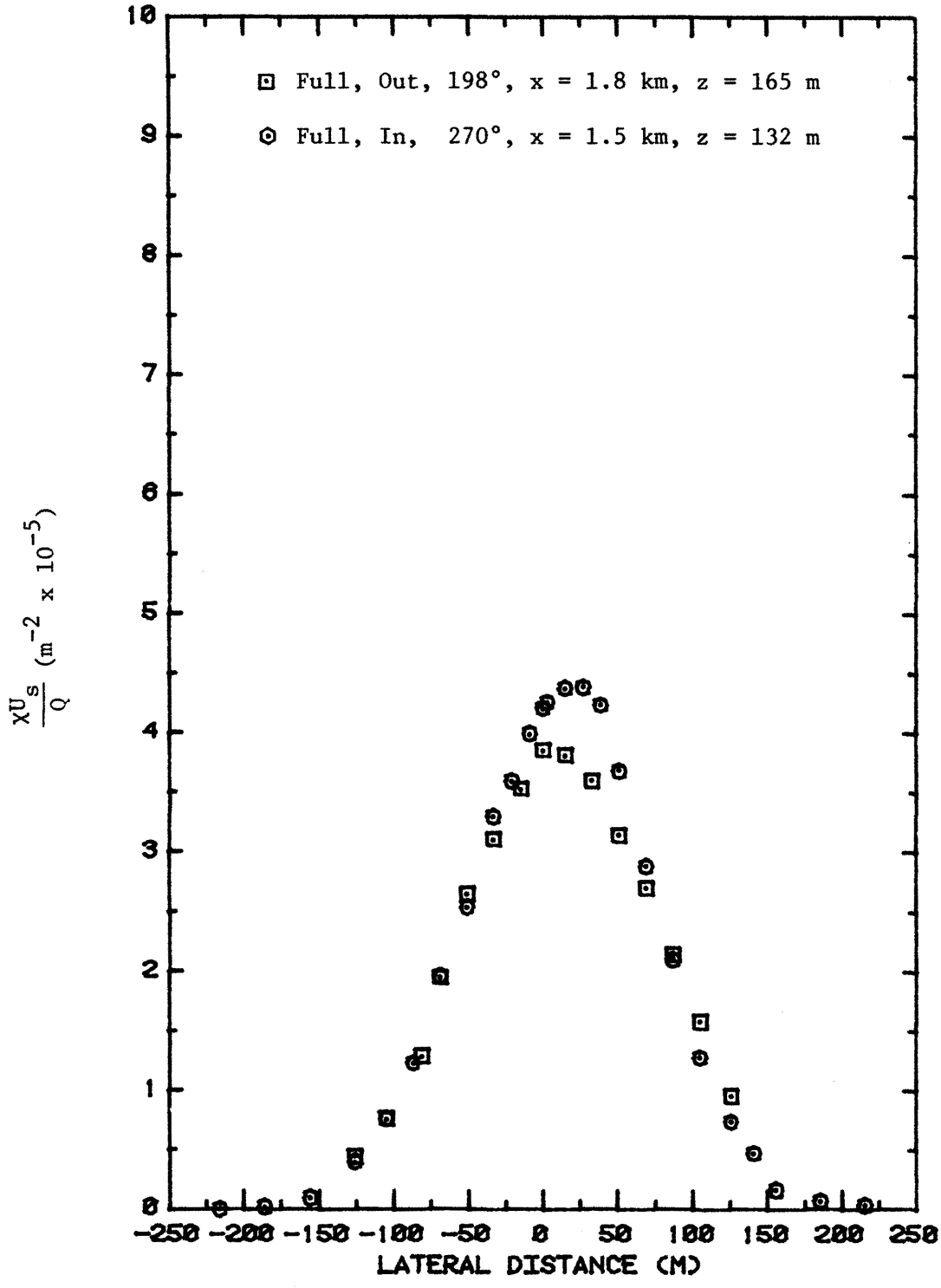


Figure 5.14. (continued)

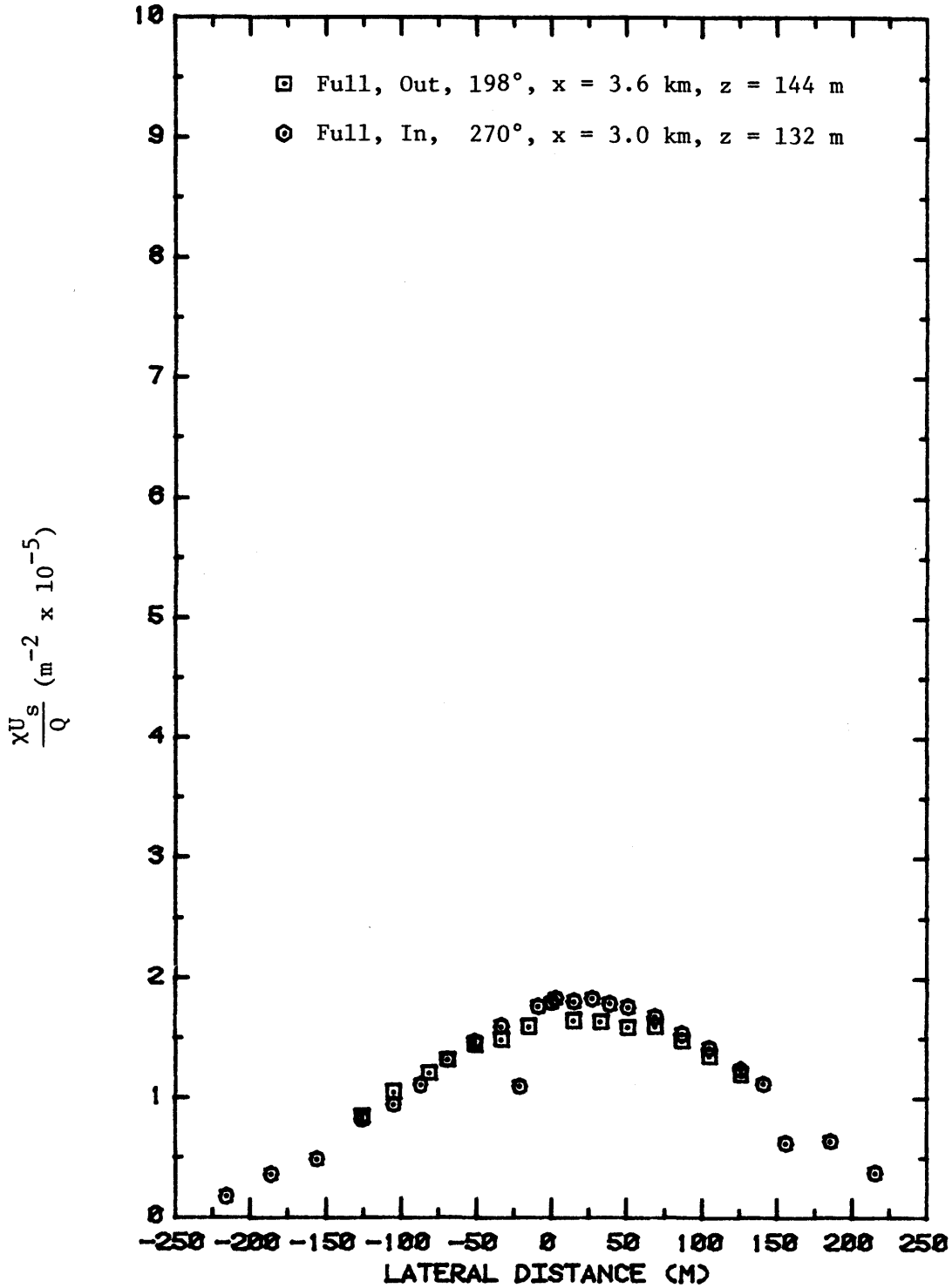


Figure 5.14. (continued)

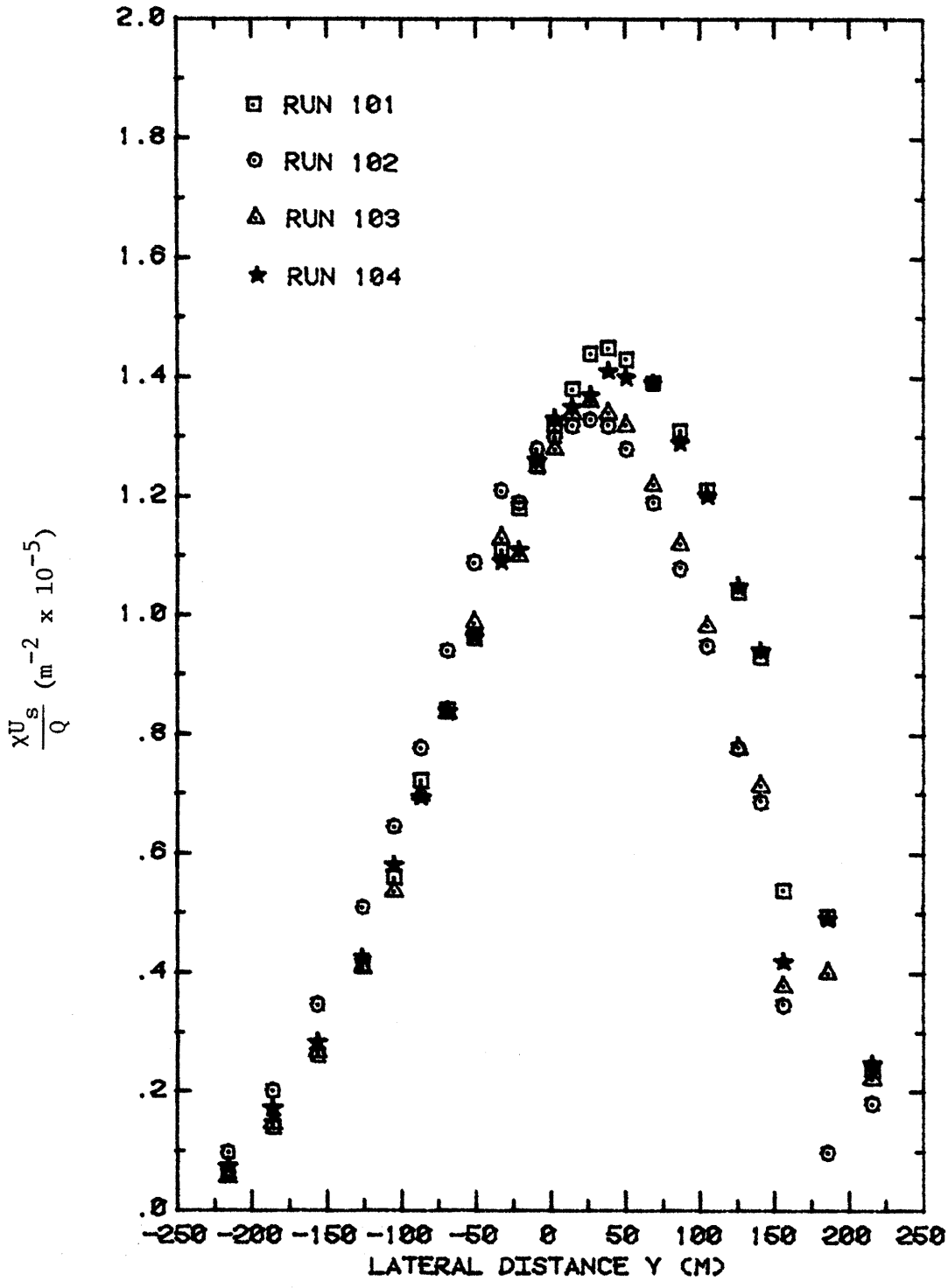


Figure 5.15. Examination of repeatability for concentration measurements.

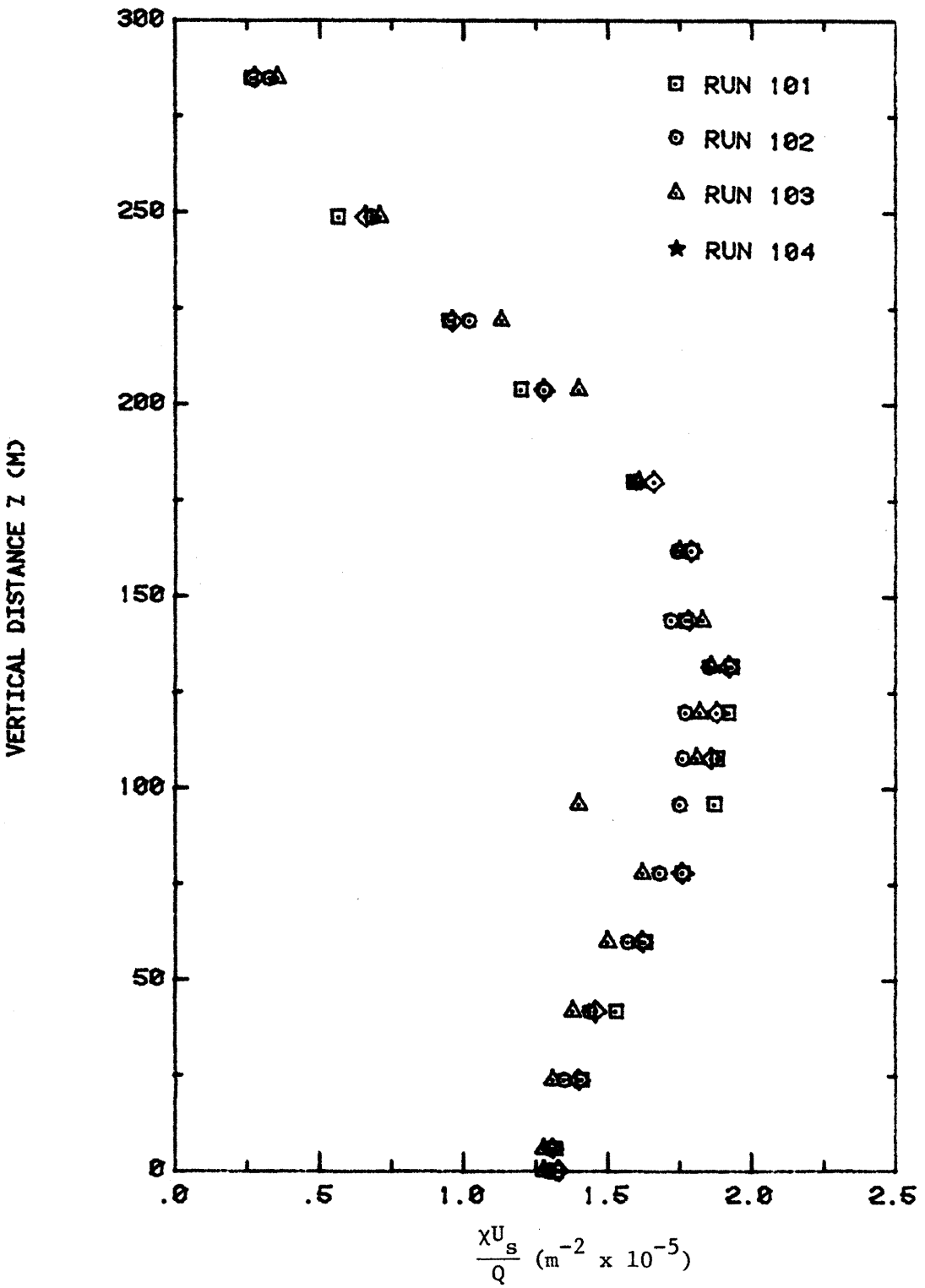


Figure 5.15. (continued)

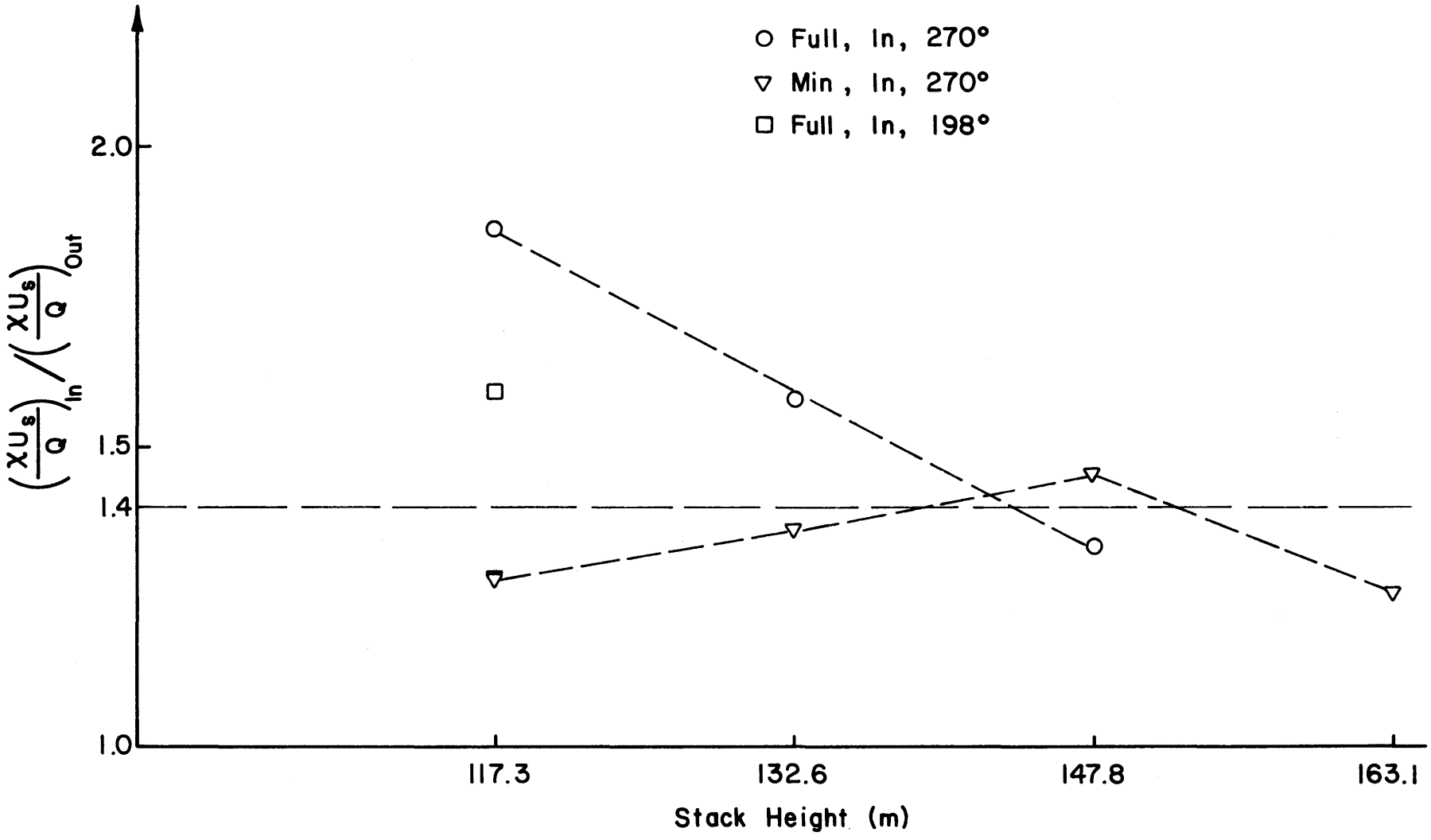


Figure 5.16. Determination of the GEP stack height.

APPENDIX A

INSTRUMENTATION

APPENDIX A. INSTRUMENTATION

A-1. The Meteorological Wind Tunnel

1. Dimensions

Test-section length	26.8 m
Test-section area	3.34 m^2
Contraction ratio	9:1
Length of temperature controlled boundary	(heated) (12.2 m) (cooled) (21.3 m)

2. Wind-Tunnel Drive

Total power	400 hp
Type of drive	4-blade propellor
Speed control: coarse	Ward-Leonard DC control
Speed control: fine	Pitch control

3. Temperatures

Ambient air temperature	40°F to 200°F (4°C to 90°C)
Temp. of controlled boundary	40°F to 400°F (4°C to 90°C)

4. Velocities

Mean velocities	Approx. 0.6 m/s
Boundary layer thickness*	Up to 1.22 m
Turbulence level	Low (about 0.1%)

5. Pressures

Adjustable gradients

6. Humidity

Controlled from approx. 20% to 80% relative humidity under average ambient conditions

*Function of boundary roughness and thickening devices at test-section entrance.

A-2. Velocity Measurements

1. Thermo Systems Constant Temperature Anemometer-Model #1050

Characteristics--
- Frequency response 0 to 50 kHz
- Probe resistance range 0 to 60 Ω
- Probe current 2.5 amp max
- Output voltage range 0-22 volt with DC suppression
- 4½ place digital panel meter
- Low-pass filters-0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200 kHz
- High-pass filters-5, 10, 20, 50, 100, 500, 1000 Hz
- Averaging networks with 3, 10, 30, and 100 sec time constant

2. Pressure Meters

MKS Baratron
Type 77H-30 sensing head
0-30 mmHg - hysterises 0.03% of F.R.
Linearity 0.25% to 0.5% zero based
Output ± 100 mV
Resolution - infinite
Head temperature stabilized

Equibar - Model #120
Characteristics - 0.01 to 30 mm Hg @ < 3% full scale

3. Digital Voltmeters

Hewlett-packard - Model #3440A/3443A
Characteristics - DC voltage, 1 mV to 1000 volts @ 0.05 ± 1 count

4. Oscilloscopes

Tektronics - Model 531
Characteristics - 100 μV to 10 V/cm @ 100 kHz to 1 MHz
X-Y curve tracing with 1 or 2 beams
10 MN to 10 V/cm - 10 mc dual trace/differential capabilities.

5. Calibrators

Thermo-Systems Calibrator, Model 1125 velocity range 0.15 to 100 meter/second

6. Hot Film

TSI Boundary Layer "X" Probe - Cross Flow, Model 1243-20
Characteristics--

Diameter of sensory area or width	51 μm
Length of sensing area	100 μm
Distance between supports	167 μm
Velocity range	0.15 m/s to 350 m/s
Maximum sensor operating temperatures	425°C
Maximum air temperature	150°C
Frequency response	0 to 250 kHz
Film spacing	1 mm

A-3. Concentration Measurements

1. Hydrocarbon Analyzer System

a. Hewlett-Packard Model 5711-A Gas Chromatograph
   i. Dual flame
   ii. Ionization detector
   iii. Electrometer isothermal oven controller
   iv. 1/2 cc dual sampling loops

b. Sampling Panels, CSU design
   i. 50 sample volumes
   ii. Transfer equipment
   iii. Flow rators

c. Hewlett-Packard Integrating Digital Voltmeter Model 2401C

2. Tracer-Gas System (see page A-5)

3. Flow Meters

a. Fisher & Porter Co., precision flow rator No. B4-21-10 float B SVT-45
b. Fisher & Porter Co., precision flow rator No. FP-1-4-09-G-G3/4/61
c. Fisher & Porter Co., precision flow rator No. 2F-1/4/20-5/70

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*A needle valve and a pressure gage were established between the stack inlet and flow meter. Back-pressure: 6 psi.

A-4. Flow Visualization

1. Photographic Equipment

a. Movie Cameras and Accessories
   i. Bolex - ±6 mm with 16-100 mm zoom lens
   ii. Movie editor - 16 mm Minette

b. Still Cameras and Accessories
   i. Hasselblad - SLR with 80 mm lens and various magazines including a Polaroid back
   ii. Three Speed Graphics - 4 x 5 with Polaroid backs
   iii. Polaroid 180 with 114 mm lens
   iv. Canon F-1 35 mm with full range of lenses and accessories
   v. Gossen luna pro light meters

c. Lighting Equipment
   i. Colortran lights - multi 6 and mini-broad
   ii. Carbon arc lights - strong trouper follow spot
   iii. 12" Fresnel 2000 W incandescent

2. Television System

a. Single tube color TV camera Shibaden model FP-1500 U (E,K)
b. Color video cassette recorder JVC model CR-6000 U (3/4 in. tape) (19 mm)
c. Panasonic NV-8950 VHS format video cassette recorder (1/2 in. tape) (12.7 mm)
d. Panasonic WV-3400 color camera with 10-120 mm 62.0 macro lens.

SCIENTIFIC GAS PRODUCTS

ASHLAND CHEMICAL COMPANY

2330 HAMILTON BLVD., SOUTH PLAINFIELD, NJ 07080 (201) 754-7700
3325 WESTSIDE DRIVE, PASADENA, TX 77504 (713) 947-2222
LAKESIDE OFFICE BLDG., NORTH AVE., WAKEFIELD, MA 01880 (617) 245-8707
500 WEAVER PARK RD., LONGMONT, CO 80501 (303) 442-4700
3395 DE LA CRUZ BLVD., SANTA CLARA, CA 95050 (408) 988-3600

COLORADO STATE UNIVERSITY
ATTN: JOE BEATY
FT. COLLINS, CO 80521

Date 2-12-85

Cust. P.O. P 36084

Inv. No. 411580

Q.C. No.

CERTIFICATION

CYLINDER NO	COMPONENT	REQUESTED	ACTUAL
1A-73421	METHANE	10%	10.0%
	NITROGEN	63.43%	63.5%
	HELIUM	BALANCE	BALANCE
EL-92421	ETHANE	5.33%	5.33%
	NITROGEN	60.95%	60.9%
	HELIUM	BALANCE	BALANCE
A-1003	PROPANE	3.64%	3.63%
	NITROGEN	57.95%	58.0%
	HELIUM	BALANCE	BALANCE
1A-5012	METHANE	10%	10.0%
	NITROGEN	64.62%	64.6%
	HELIUM	BALANCE	BALANCE
1A-3912	ETHANE	5.33%	5.33%
	NITROGEN	83.85%	63.8%
	HELIUM	BALANCE	BALANCE
H-10016	PROPANE	3.64%	3.64%
	NITROGEN	63.56%	63.6%
	HELIUM	BALANCE	BALANCE

All values reported in Mole percent unless otherwise noted.

Accuracy tolerance on all values greater than 100 ppm within ± 2% unless otherwise stated.

RS

RIC SCHMELTEKOPF ANALYST

DON FRED SUPERVISOR

APPENDIX B

CONCENTRATION DATA

RUN # 1

STACK ADCT

ADCT, GROUND GRID
ADCT01::10

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.66 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.20E+05	
BACKGROUND	.31E+04	
CALIBRATION FACTOR	.40E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M**M)	TOTAL CONC. (1/M**M)
19	.6	15.0	0.0	3160	.287E-07	.287E-07
18	.6	7.5	0.0	3172	.448E-07	.448E-07
20	1.2	15.0	0.0	5673	.382E-05	.382E-05
21	1.2	7.5	0.0	5771	.397E-05	.397E-05
22	1.2	0.0	0.0	5703	.387E-05	.387E-05
23	1.2	-7.5	0.0	5625	.375E-05	.375E-05
24	1.2	-15.0	0.0	5599	.371E-05	.371E-05
25	1.2	-30.0	0.0	5776	.851E-05	.851E-05
35	1.8	15.0	0.0	9881	.102E-04	.102E-04
36	1.8	0.0	0.0	8711	.841E-05	.841E-05
37	1.8	-15.0	0.0	8508	.810E-05	.810E-05
38	1.8	-30.0	0.0	8030	.748E-05	.748E-05
41	2.1	30.0	0.0	9674	.986E-05	.986E-05
40	2.1	15.0	0.0	9896	.102E-04	.102E-04
42	2.1	0.0	0.0	10168	.106E-04	.106E-04
43	2.1	-15.0	0.0	9933	.103E-04	.103E-04
45	2.1	-30.0	0.0	9428	.977E-05	.977E-05
49	2.4	30.0	0.0	10414	.110E-04	.110E-04
50	2.4	15.0	0.0	11044	.119E-04	.119E-04
51	2.4	0.0	0.0	11128	.122E-04	.122E-04
52	2.4	-15.0	0.0	10388	.110E-04	.110E-04
53	2.4	-30.0	0.0	10599	.113E-04	.113E-04
58	2.7	45.0	0.0	11721	.130E-04	.130E-04
59	2.7	22.5	0.0	11419	.125E-04	.125E-04
60	2.7	0.0	0.0	11642	.128E-04	.128E-04
61	2.7	-22.5	0.0	11069	.120E-04	.120E-04
62	2.7	-45.0	0.0	10521	.111E-04	.111E-04
65	3.0	45.0	0.0	11358	.124E-04	.124E-04
66	3.0	22.5	0.0	11914	.132E-04	.132E-04
68	3.0	0.0	0.0	11885	.132E-04	.132E-04
69	3.0	-22.5	0.0	11390	.125E-04	.125E-04
81	3.6	45.0	0.0	11722	.130E-04	.130E-04
80	3.6	22.5	0.0	9113	.901E-05	.901E-05
83	3.6	0.0	0.0	8521	.774E-05	.774E-05
84	3.6	-22.5	0.0	10595	.113E-04	.113E-04
85	3.6	-45.0	0.0	10241	.107E-04	.107E-04
96	4.2	30.0	0.0	11151	.121E-04	.121E-04
98	4.2	0.0	0.0	11697	.129E-04	.129E-04
100	4.2	-30.0	0.0	10083	.105E-04	.105E-04

RUN # 2

STACK ADCT

ADCT, GROUND GRID
ADCT02!!10

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.50E-03M3/S	.43E!03M3/S
SOURCE STRENGTH	.20E!05	
BACKGROUND	.29E!04	
CALIBRATION FACTOR	.40E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
96	.6	30.0	0.0	3051	.261E-06	.261E-06
97	.6	7.5	0.0	3007	.195E-06	.195E-06
98	.6	0.0	0.0	2288	.166E-06	.166E-06
10	.6	-7.5	0.0	2036	.876E-07	.876E-07
20	1.2	15.0	0.0	5375	.376E-05	.376E-05
21	1.2	0.0	0.0	5616	.413E-05	.413E-05
22	1.2	15.0	0.0	5443	.387E-05	.387E-05
23	1.2	60.0	0.0	4430	.234E-05	.234E-05
24	1.8	60.0	0.0	5056	.465E-05	.465E-05
25	1.8	30.0	0.0	6201	.816E-05	.816E-05
26	1.8	0.0	0.0	6353	.826E-05	.826E-05
27	1.8	-30.0	0.0	6207	.817E-05	.817E-05
40	1.8	-90.0	0.0	5649	.418E-05	.418E-05
41	2.4	90.0	0.0	8169	.799E-05	.799E-05
42	2.4	30.0	0.0	10413	.114E-04	.114E-04
51	2.4	0.0	0.0	10219	.121E-04	.121E-04
52	2.4	-30.0	0.0	10350	.113E-04	.113E-04
53	2.4	-90.0	0.0	7534	.703E-05	.703E-05
54	3.0	135.0	0.0	6821	.595E-05	.595E-05
60	3.0	45.0	0.0	11270	.127E-04	.127E-04
61	3.0	22.5	0.0	11065	.136E-04	.136E-04
62	3.0	0.0	0.0	11055	.136E-04	.136E-04
63	3.0	-22.5	0.0	11484	.130E-04	.130E-04
64	3.0	-45.0	0.0	10750	.119E-04	.119E-04
70	3.6	180.0	0.0	5491	.394E-05	.394E-05
71	3.6	90.0	0.0	9721	.103E-04	.103E-04
72	3.6	22.5	0.0	11816	.135E-04	.135E-04
73	3.6	0.0	0.0	11915	.136E-04	.136E-04
74	3.6	-22.5	0.0	11342	.128E-04	.128E-04
75	3.6	-90.0	0.0	13634	.162E-04	.162E-04
80	4.2	-180.0	0.0	4902	.303E-05	.303E-05
94	4.2	180.0	0.0	6166	.496E-05	.496E-05
95	4.2	60.0	0.0	11199	.126E-04	.126E-04
97	4.2	0.0	0.0	11699	.133E-04	.133E-04
100	4.2	-60.0	0.0	10178	.110E-04	.110E-04
101	4.2	-180.0	0.0	5290	.380E-05	.380E-05
108	4.8	180.0	0.0	6507	.548E-05	.548E-05
109	4.8	120.0	0.0	8684	.876E-05	.876E-05
110	4.8	60.0	0.0	4567	.255E-05	.255E-05
111	4.8	30.0	0.0	11481	.130E-04	.130E-04
112	4.8	0.0	0.0	10166	.110E-04	.110E-04
113	4.8	-30.0	0.0	8233	.808E-05	.808E-05
114	4.8	-60.0	0.0	8227	.924E-05	.924E-05
115	4.8	-180.0	0.0	9204	.955E-05	.955E-05

RUN # 3

STACK ADCT

ADCT, RAKE, 1M
ADCT03::18

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.90E+05	
BACKGROUND	.13E+04	
CALIBRATION FACTOR	.40E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
5	.3	171.0	117.0	1346	.912E-08	.912E-08
7	.3	141.0	117.0	1351	.167E-07	.167E-07
10	.3	111.0	117.0	2437	.167E-05	.167E-05
14	.3	87.0	117.0	1353	.198E-07	.198E-07
18	.3	63.0	117.0	1936	.906E-06	.906E-06
22	.3	39.0	117.0	46177	.682E-04	.682E-04
24	.3	27.0	117.0	139665	.210E-03	.210E-03
26	.3	15.0	117.0	278496	.421E-03	.421E-03
27	.3	9.0	117.0	330029	.500E-03	.500E-03
28	.3	3.0	117.0	349073	.530E-03	.530E-03
29	.3	-3.0	117.0	337850	.512E-03	.512E-03
30	.3	-9.0	117.0	294186	.445E-03	.445E-03
31	.3	-15.0	117.0	238732	.361E-03	.361E-03
33	.3	-27.0	117.0	107085	.161E-03	.161E-03
35	.3	-39.0	117.0	33054	.482E-04	.482E-04
64	.3	0.0	42.0	1341	.152E-08	.152E-08
67	.3	0.0	60.0	3101	.268E-05	.268E-05
69	.3	0.0	72.0	19537	.277E-04	.277E-04
72	.3	0.0	90.0	90211	.135E-03	.135E-03
73	.3	0.0	96.0	145474	.219E-03	.219E-03
74	.3	0.0	102.0	211049	.319E-03	.319E-03
75	.3	0.0	108.0	280363	.424E-03	.424E-03
76	.3	0.0	114.0	329176	.499E-03	.499E-03
77	.3	0.0	120.0	345761	.524E-03	.524E-03
78	.3	0.0	126.0	329465	.499E-03	.499E-03
79	.3	0.0	132.0	277579	.420E-03	.420E-03
80	.3	0.0	138.0	186957	.282E-03	.282E-03
81	.3	0.0	144.0	117460	.177E-03	.177E-03
82	.3	0.0	150.0	63008	.938E-04	.938E-04
84	.3	0.0	162.0	10392	.138E-04	.138E-04
87	.3	0.0	180.0	1398	.882E-07	.882E-07
89	.3	0.0	192.0	1502	.246E-06	.246E-06
97	.3	0.0	240.0	1367	.411E-07	.411E-07

RUN # 4

STACK ADCT

ADCT, RAKE, ZM
ADCT04::1B

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.84 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.90E+05	
BACKGROUND	.19E+04	
CALIBRATION FACTOR	.40E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	.00	225.0	117.0	1080	.213E-07	.213E-07
2	.00	201.0	117.0	2240	.555E-06	.555E-06
3	.00	141.0	117.0	2542	.101E-05	.101E-05
10	.00	111.0	117.0	5479	.548E-05	.548E-05
11	.00	87.0	117.0	12169	.157E-04	.157E-04
12	.00	63.0	117.0	25271	.356E-04	.356E-04
13	.00	39.0	117.0	44754	.652E-04	.652E-04
14	.00	27.0	117.0	55173	.810E-04	.810E-04
15	.00	15.0	117.0	64576	.953E-04	.953E-04
16	.00	3.0	117.0	66460	.983E-04	.983E-04
17	.00	-3.0	117.0	67124	.992E-04	.992E-04
18	.00	-9.0	117.0	66339	.980E-04	.980E-04
19	.00	-15.0	117.0	62684	.925E-04	.925E-04
20	.00	-27.0	117.0	60586	.893E-04	.893E-04
21	.00	-39.0	117.0	55065	.809E-04	.809E-04
22	.00	-87.0	117.0	48820	.714E-04	.714E-04
23	.00	-87.0	117.0	10820	.136E-04	.136E-04
24	.00	-111.0	117.0	3266	.212E-05	.212E-05
25	.00	-141.0	117.0	2297	.642E-06	.642E-06
26	.00	-171.0	117.0	2075	.304E-06	.304E-06
27	.00	0.0	12.0	2745	.132E-05	.132E-05
28	.00	0.0	30.0	5038	.481E-05	.481E-05
29	.00	0.0	42.0	10369	.122E-04	.284E-04
30	.00	0.0	60.0	20581	.284E-04	.509E-04
31	.00	0.0	72.0	35380	.509E-04	.710E-04
32	.00	0.0	90.0	48551	.710E-04	.813E-04
33	.00	0.0	96.0	55359	.813E-04	.874E-04
34	.00	0.0	102.0	59383	.874E-04	.941E-04
35	.00	0.0	108.0	63759	.941E-04	.986E-04
36	.00	0.0	114.0	66721	.986E-04	.981E-04
37	.00	0.0	120.0	66393	.981E-04	.972E-04
38	.00	0.0	126.0	65777	.972E-04	.923E-04
39	.00	0.0	132.0	62593	.923E-04	.887E-04
40	.00	0.0	138.0	60212	.887E-04	.824E-04
41	.00	0.0	144.0	56037	.824E-04	.721E-04
42	.00	0.0	150.0	48820	.721E-04	.474E-04
43	.00	0.0	162.0	32069	.474E-04	.270E-04
44	.00	0.0	180.0	20034	.270E-04	.127E-04
45	.00	0.0	192.0	10221	.127E-04	.483E-05
46	.00	0.0	210.0	5054	.483E-05	.117E-05
47	.00	0.0	222.0	2445	.117E-05	.319E-07
48	.00	0.0	240.0	1886	.319E-07	

RUN # 5

STACK ADCT

ADCT, RAKE, 5M
ADCT05:::18

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.90E+05	
BACKGROUND	.10E+04	
CALIBRATION FACTOR	.41E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
5	1.5	171.0	129.0	2699	.145E-05	.145E-05
7	1.5	141.0	129.0	5807	.622E-05	.622E-05
10	1.5	111.0	129.0	11008	.142E-04	.142E-04
14	1.5	87.0	129.0	17357	.239E-04	.239E-04
18	1.5	63.0	129.0	24817	.354E-04	.354E-04
22	1.5	39.0	129.0	29506	.426E-04	.426E-04
24	1.5	27.0	129.0	31667	.459E-04	.459E-04
26	1.5	15.0	129.0	33715	.491E-04	.491E-04
27	1.5	9.0	129.0	34019	.495E-04	.495E-04
28	1.5	3.0	129.0	34708	.507E-04	.507E-04
29	1.5	-3.0	129.0	34571	.504E-04	.504E-04
30	1.5	-9.0	129.0	33580	.489E-04	.489E-04
31	1.5	-15.0	129.0	33689	.490E-04	.490E-04
33	1.5	-27.0	129.0	32458	.471E-04	.471E-04
35	1.5	-39.0	129.0	29941	.433E-04	.433E-04
39	1.5	-63.0	129.0	23028	.327E-04	.327E-04
43	1.5	-87.0	129.0	15293	.208E-04	.208E-04
47	1.5	-111.0	129.0	9334	.116E-04	.116E-04
50	1.5	-141.0	129.0	4019	.347E-05	.347E-05
52	1.5	-171.0	129.0	2209	.694E-06	.694E-06
54	1.5	-201.0	129.0	1787	.461E-07	.461E-07
57	1.5	0.0	0.0	2146	.597E-06	.597E-06
59	1.5	0.0	12.0	4029	.349E-05	.349E-05
62	1.5	0.0	30.0	7460	.876E-05	.876E-05
64	1.5	0.0	42.0	11011	.142E-04	.142E-04
67	1.5	0.0	60.0	15043	.204E-04	.204E-04
69	1.5	0.0	72.0	20641	.290E-04	.290E-04
72	1.5	0.0	90.0	25775	.369E-04	.369E-04
73	1.5	0.0	96.0	27773	.399E-04	.399E-04
74	1.5	0.0	102.0	30035	.434E-04	.434E-04
75	1.5	0.0	108.0	32144	.467E-04	.467E-04
76	1.5	0.0	114.0	33418	.486E-04	.486E-04
77	1.5	0.0	120.0	34376	.501E-04	.501E-04
78	1.5	0.0	126.0	34903	.509E-04	.509E-04
79	1.5	0.0	132.0	34354	.500E-04	.500E-04
80	1.5	0.0	138.0	34061	.496E-04	.496E-04
81	1.5	0.0	144.0	31719	.460E-04	.460E-04
82	1.5	0.0	150.0	30993	.449E-04	.449E-04
84	1.5	0.0	162.0	25159	.359E-04	.359E-04
87	1.5	0.0	180.0	18553	.258E-04	.258E-04
89	1.5	0.0	192.0	13075	.174E-04	.174E-04
94	1.5	0.0	222.0	5861	.630E-05	.630E-05
98	1.5	0.0	249.0	2747	.152E-05	.152E-05
101	1.5	0.0	276.0	1814	.875E-07	.875E-07

RUN # 6

STACK ADCT

ADCT, RAKE, 8M
ADCT06:18

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.90E+05	
BACKGROUND	.10E+04	
CALIBRATION FACTOR	.41E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	2.4	225.0	120.0	1118	.146E-06	.146E-06
3	2.4	201.0	120.0	1255	.356E-06	.356E-06
5	2.4	171.0	120.0	3000	.304E-05	.304E-05
7	2.4	141.0	120.0	4002	.592E-05	.592E-05
10	2.4	111.0	120.0	7336	.105E-04	.105E-04
14	2.4	87.0	120.0	10099	.152E-04	.152E-04
18	2.4	63.0	120.0	13613	.193E-04	.193E-04
22	2.4	39.0	120.0	15406	.221E-04	.221E-04
24	2.4	27.0	120.0	16581	.239E-04	.239E-04
26	2.4	15.0	120.0	17277	.250E-04	.250E-04
27	2.4	9.0	120.0	17427	.252E-04	.252E-04
28	2.4	3.0	120.0	17928	.260E-04	.260E-04
29	2.4	-3.0	120.0	18076	.262E-04	.262E-04
30	2.4	-9.0	120.0	17946	.260E-04	.260E-04
31	2.4	-15.0	120.0	18086	.262E-04	.262E-04
33	2.4	-27.0	120.0	17722	.256E-04	.256E-04
35	2.4	-39.0	120.0	17541	.254E-04	.254E-04
43	2.4	-87.0	120.0	14824	.212E-04	.212E-04
47	2.4	-111.0	120.0	12680	.179E-04	.179E-04
52	2.4	-171.0	120.0	6280	.807E-05	.807E-05
54	2.4	-201.0	120.0	3671	.407E-05	.407E-05
56	2.4	-225.0	120.0	4477	.530E-05	.530E-05
57	2.4	0.0	0.0	3545	.387E-05	.387E-05
59	2.4	0.0	12.0	5490	.686E-05	.686E-05
62	2.4	0.0	30.0	8519	.115E-04	.115E-04
64	2.4	0.0	42.0	10087	.139E-04	.139E-04
67	2.4	0.0	60.0	11092	.155E-04	.155E-04
69	2.4	0.0	72.0	14320	.204E-04	.204E-04
72	2.4	0.0	90.0	15847	.228E-04	.228E-04
73	2.4	0.0	96.0	16750	.241E-04	.241E-04
75	2.4	0.0	108.0	17776	.257E-04	.257E-04
76	2.4	0.0	114.0	18008	.261E-04	.261E-04
77	2.4	0.0	120.0	17820	.258E-04	.258E-04
78	2.4	0.0	126.0	17847	.258E-04	.258E-04
79	2.4	0.0	132.0	17472	.253E-04	.253E-04
80	2.4	0.0	138.0	17052	.246E-04	.246E-04
81	2.4	0.0	144.0	16993	.245E-04	.245E-04
82	2.4	0.0	150.0	16776	.242E-04	.242E-04
84	2.4	0.0	162.0	15182	.217E-04	.217E-04
87	2.4	0.0	180.0	13164	.186E-04	.186E-04
89	2.4	0.0	192.0	10862	.151E-04	.151E-04
94	2.4	0.0	222.0	6913	.904E-05	.904E-05
98	2.4	0.0	249.0	3662	.405E-05	.405E-05
101	2.4	0.0	276.0	1809	.121E-05	.121E-05

RUN # 7

STACK ADCT

ADCT, RAKE, 8M
ADCT07::1B

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.90E+05	
BACKGROUND	.11E+04	
CALIBRATION FACTOR	.41E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	2.4	225.0	117.0	1581	.679E-06	.679E-06
3	2.4	201.0	117.0	2622	.228E-05	.228E-05
5	2.4	171.0	117.0	4195	.469E-05	.469E-05
7	2.4	141.0	117.0	6940	.891E-05	.891E-05
10	2.4	111.0	117.0	10064	.137E-04	.137E-04
14	2.4	87.0	117.0	12436	.173E-04	.173E-04
18	2.4	63.0	117.0	15210	.216E-04	.216E-04
22	2.4	39.0	117.0	16923	.242E-04	.242E-04
24	2.4	27.0	117.0	17965	.258E-04	.258E-04
26	2.4	15.0	117.0	18416	.265E-04	.265E-04
27	2.4	9.0	117.0	18307	.264E-04	.264E-04
28	2.4	3.0	117.0	18226	.262E-04	.262E-04
30	2.4	-9.0	117.0	18667	.269E-04	.269E-04
31	2.4	-15.0	117.0	18767	.271E-04	.271E-04
33	2.4	-27.0	117.0	17812	.256E-04	.256E-04
35	2.4	-39.0	117.0	17223	.247E-04	.247E-04
43	2.4	-87.0	117.0	15253	.217E-04	.217E-04
47	2.4	-111.0	117.0	10015	.136E-04	.136E-04
50	2.4	-141.0	117.0	6795	.868E-05	.868E-05
52	2.4	-171.0	117.0	4143	.461E-05	.461E-05
54	2.4	-201.0	117.0	2340	.184E-05	.184E-05
57	2.4	0.0	0.0	4219	.473E-05	.473E-05
59	2.4	0.0	12.0	9036	.121E-04	.121E-04
62	2.4	0.0	30.0	11112	.153E-04	.153E-04
64	2.4	0.0	42.0	12779	.179E-04	.179E-04
67	2.4	0.0	60.0	13016	.195E-04	.195E-04
69	2.4	0.0	72.0	16862	.241E-04	.241E-04
72	2.4	0.0	90.0	18133	.261E-04	.261E-04
73	2.4	0.0	96.0	18639	.269E-04	.269E-04
74	2.4	0.0	102.0	18843	.272E-04	.272E-04
75	2.4	0.0	108.0	18986	.274E-04	.274E-04
76	2.4	0.0	114.0	18775	.271E-04	.271E-04
77	2.4	0.0	120.0	18548	.267E-04	.267E-04
78	2.4	0.0	126.0	18131	.261E-04	.261E-04
79	2.4	0.0	132.0	18027	.259E-04	.259E-04
80	2.4	0.0	138.0	16045	.241E-04	.241E-04
81	2.4	0.0	144.0	17355	.249E-04	.249E-04
82	2.4	0.0	150.0	16122	.231E-04	.231E-04
84	2.4	0.0	162.0	14262	.201E-04	.201E-04
87	2.4	0.0	180.0	11403	.159E-04	.159E-04
89	2.4	0.0	192.0	9803	.133E-04	.133E-04
94	2.4	0.0	222.0	5200	.731E-05	.731E-05
98	2.4	0.0	249.0	3441	.353E-05	.353E-05
101	2.4	0.0	276.0	2038	.138E-05	.138E-05

RUN # 3

STACK ADCT

ADCT, RAKE, 12M
ADCT08::10

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.90E+05	
BACKGROUND	.17E+04	
CALIBRATION FACTOR	.41E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	3.6	225.0	108.0	3721	.316E-05	.316E-05
3	3.6	201.0	108.0	5760	.630E-05	.630E-05
5	3.6	171.0	108.0	7604	.912E-05	.912E-05
7	3.6	141.0	108.0	9021	.113E-04	.113E-04
10	3.6	111.0	108.0	10120	.130E-04	.130E-04
14	3.6	87.0	108.0	11009	.143E-04	.143E-04
18	3.6	63.0	108.0	11376	.149E-04	.149E-04
22	3.6	39.0	108.0	11929	.158E-04	.158E-04
24	3.6	27.0	108.0	12179	.161E-04	.161E-04
26	3.6	15.0	108.0	12093	.160E-04	.160E-04
27	3.6	9.0	108.0	12166	.161E-04	.161E-04
28	3.6	3.0	108.0	12019	.159E-04	.159E-04
29	3.6	-3.0	108.0	12177	.161E-04	.161E-04
30	3.6	-9.0	108.0	12033	.159E-04	.159E-04
31	3.6	-15.0	108.0	12136	.161E-04	.161E-04
33	3.6	-27.0	108.0	11795	.156E-04	.156E-04
35	3.6	-39.0	108.0	12049	.159E-04	.159E-04
43	3.6	-87.0	108.0	10035	.129E-04	.129E-04
47	3.6	-111.0	108.0	8959	.112E-04	.112E-04
50	3.6	-141.0	108.0	7201	.862E-05	.862E-05
52	3.6	-171.0	108.0	5812	.637E-05	.637E-05
54	3.6	-201.0	108.0	4271	.400E-05	.400E-05
57	3.6	0.0	0.0	5023	.516E-05	.516E-05
59	3.6	0.0	12.0	8606	.107E-04	.107E-04
62	3.6	0.0	30.0	9744	.124E-04	.124E-04
64	3.6	0.0	42.0	10245	.132E-04	.132E-04
67	3.6	0.0	60.0	10185	.131E-04	.131E-04
69	3.6	0.0	72.0	11342	.149E-04	.149E-04
72	3.6	0.0	90.0	11411	.150E-04	.150E-04
74	3.6	0.0	102.0	11965	.158E-04	.158E-04
75	3.6	0.0	108.0	12098	.160E-04	.160E-04
76	3.6	0.0	114.0	12252	.163E-04	.163E-04
77	3.6	0.0	120.0	12241	.162E-04	.162E-04
78	3.6	0.0	126.0	12128	.162E-04	.162E-04
79	3.6	0.0	132.0	11978	.158E-04	.158E-04
80	3.6	0.0	138.0	11744	.155E-04	.155E-04
82	3.6	0.0	150.0	11749	.155E-04	.155E-04
84	3.6	0.0	162.0	10401	.137E-04	.137E-04
87	3.6	0.0	180.0	9692	.123E-04	.123E-04
89	3.6	0.0	192.0	8968	.112E-04	.112E-04
94	3.6	0.0	222.0	6825	.792E-05	.792E-05
98	3.6	0.0	249.0	4822	.485E-05	.485E-05
101	3.6	0.0	276.0	3111	.222E-05	.222E-05

RUN # 9

STACK ADCT

ADCT, RAKE, 17M
ADCT09::1C

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.70 M/S	14.62 M/S
EXIT VEL.	2.54 M/S	21.94 M/S
VOL. FLOW	.56E-03M3/S	.43E+03M3/S
SOURCE STRENGTH	.90E+05	
BACKGROUND	.13E+04	
CALIBRATION FACTOR	.41E-02	
STACK HEIGHT	33.33 CM	99.99 M
STACK DIAMETER	1.67 CM	5.00 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	5.1	225.0	114.0	4492	.492E-05	.492E-05
3	5.1	201.0	114.0	6221	.758E-05	.758E-05
14	5.1	87.0	114.0	8658	.113E-04	.113E-04
22	5.1	39.0	114.0	8961	.118E-04	.118E-04
26	5.1	15.0	114.0	9131	.120E-04	.120E-04
28	5.1	3.0	114.0	9068	.119E-04	.119E-04
29	5.1	-3.0	114.0	9094	.120E-04	.120E-04
31	5.1	-15.0	114.0	8959	.118E-04	.118E-04
35	5.1	-39.0	114.0	8767	.115E-04	.115E-04
43	5.1	-87.0	114.0	7507	.955E-05	.955E-05
50	5.1	-141.0	114.0	5976	.720E-05	.720E-05
54	5.1	-201.0	114.0	4405	.479E-05	.479E-05
57	5.1	0.0	0.0	4754	.532E-05	.532E-05
59	5.1	0.0	12.0	8563	.112E-04	.112E-04
62	5.1	0.0	30.0	8763	.115E-04	.115E-04
64	5.1	0.0	42.0	8992	.117E-04	.117E-04
69	5.1	0.0	72.0	9213	.122E-04	.122E-04
72	5.1	0.0	90.0	9104	.120E-04	.120E-04
73	5.1	0.0	96.0	9234	.122E-04	.122E-04
74	5.1	0.0	102.0	9034	.119E-04	.119E-04
76	5.1	0.0	114.0	9025	.119E-04	.119E-04
78	5.1	0.0	126.0	9037	.119E-04	.119E-04
80	5.1	0.0	138.0	8666	.113E-04	.113E-04
82	5.1	0.0	150.0	8519	.111E-04	.111E-04
84	5.1	0.0	162.0	8122	.105E-04	.105E-04
87	5.1	0.0	180.0	7465	.949E-05	.949E-05
89	5.1	0.0	192.0	6857	.855E-05	.855E-05
94	5.1	0.0	222.0	5346	.623E-05	.623E-05
98	5.1	0.0	249.0	4127	.436E-05	.436E-05
102	5.1	0.0	285.0	2606	.203E-05	.203E-05

RUN # 10

EX,TEST NO.1,2M
100%,IN,BLEX02::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.96 M/S	25.57 M/S	2.62 M/S	22.61 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.93E+03		.30E+03		.23E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	.6	126.0	0.0	1377	.102E-05	3569	.699E-05	8524	.187E-04	.890E-05
9	.6	117.0	0.0	1461	.121E-05	4564	.912E-05	10433	.230E-04	.111E-04
10	.6	111.0	0.0	1507	.132E-05	5406	.109E-04	11926	.264E-04	.129E-04
11	.6	105.0	0.0	1610	.155E-05	6358	.130E-04	13717	.304E-04	.150E-04
12	.6	99.0	0.0	1782	.194E-05	7478	.153E-04	15530	.345E-04	.173E-04
13	.6	93.0	0.0	2037	.252E-05	8577	.177E-04	17045	.379E-04	.194E-04
14	.6	87.0	0.0	2203	.290E-05	9809	.203E-04	18659	.416E-04	.216E-04
15	.6	81.0	0.0	2467	.350E-05	11130	.232E-04	20155	.450E-04	.239E-04
17	.6	69.0	0.0	3111	.497E-05	13041	.290E-04	22591	.505E-04	.282E-04
18	.6	63.0	0.0	3470	.579E-05	15442	.324E-04	23952	.535E-04	.307E-04
19	.6	57.0	0.0	3859	.667E-05	16943	.356E-04	25246	.564E-04	.330E-04
20	.6	51.0	0.0	4445	.800E-05	18768	.395E-04	26215	.586E-04	.355E-04
21	.6	45.0	0.0	4875	.898E-05	19209	.404E-04	25865	.578E-04	.359E-04
22	.6	39.0	0.0	5473	.103E-04	20066	.423E-04	25168	.563E-04	.365E-04
23	.6	33.0	0.0	5837	.112E-04	20028	.422E-04	24243	.542E-04	.360E-04
24	.6	27.0	0.0	6205	.120E-04	20384	.429E-04	23723	.530E-04	.362E-04
25	.6	21.0	0.0	6373	.124E-04	19817	.417E-04	21708	.485E-04	.344E-04
27	.6	9.0	0.0	7174	.142E-04	19367	.408E-04	19120	.426E-04	.327E-04
28	.6	3.0	0.0	7140	.141E-04	18328	.385E-04	17529	.390E-04	.308E-04
29	.6	-3.0	0.0	6648	.130E-04	16350	.343E-04	15264	.339E-04	.273E-04
30	.6	-9.0	0.0	6637	.130E-04	15302	.321E-04	13634	.302E-04	.253E-04
31	.6	-15.0	0.0	6319	.123E-04	13994	.293E-04	11972	.265E-04	.228E-04
32	.6	-21.0	0.0	5701	.109E-04	12589	.263E-04	10186	.225E-04	.200E-04
33	.6	-27.0	0.0	5295	.994E-05	11117	.231E-04	8607	.189E-04	.175E-04
34	.6	-33.0	0.0	4666	.851E-05	9546	.198E-04	7100	.155E-04	.147E-04
35	.6	-39.0	0.0	3897	.676E-05	7169	.147E-04	4882	.105E-04	.107E-04
36	.6	-45.0	0.0	3897	.676E-05	7169	.147E-04	4802	.105E-04	.107E-04
37	.6	-51.0	0.0	3269	.533E-05	5489	.111E-04	3786	.803E-05	.821E-05
38	.6	-57.0	0.0	3054	.484E-05	4436	.884E-05	2868	.596E-05	.659E-05
39	.6	-63.0	0.0	2653	.393E-05	3671	.721E-05	2304	.469E-05	.531E-05
40	.6	-69.0	0.0	2269	.305E-05	2845	.544E-05	1805	.356E-05	.405E-05
41	.6	-75.0	0.0	1897	.221E-05	2000	.363E-05	1200	.220E-05	.270E-05
42	.6	-81.0	0.0	1656	.166E-05	1461	.248E-05	964	.167E-05	.195E-05
43	.6	-87.0	0.0	1455	.120E-05	1072	.165E-05	758	.120E-05	.136E-05
44	.6	-93.0	0.0	1293	.831E-06	853	.118E-05	614	.877E-06	.967E-06
45	.6	-99.0	0.0	1090	.369E-06	577	.590E-06	401	.397E-06	.455E-06

RUN # 11

EX,TEST NO.1,3M
100%,IN,BLEX03::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.96 M/S	25.57 M/S	2.62 M/S	22.61 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.12E+04		.59E+03		.53E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.9	216.0	0.0	1451	.626E-06	1136	.117E-05	1537	.228E-05	.135E-05
3	.9	201.0	0.0	1426	.569E-06	1173	.129E-05	1844	.297E-05	.161E-05
4	.9	186.0	0.0	1559	.872E-06	1946	.290E-05	3710	.718E-05	.365E-05
5	.9	171.0	0.0	1646	.107E-05	2831	.479E-05	5799	.119E-04	.591E-05
6	.9	156.0	0.0	1889	.162E-05	4324	.798E-05	8643	.183E-04	.931E-05
7	.9	141.0	0.0	2154	.223E-05	5905	.115E-04	11320	.243E-04	.127E-04
8	.9	126.0	0.0	2473	.295E-05	7968	.158E-04	14398	.313E-04	.167E-04
9	.9	117.0	0.0	2823	.375E-05	9294	.186E-04	15987	.349E-04	.191E-04
11	.9	105.0	0.0	3525	.535E-05	11554	.234E-04	18954	.416E-04	.235E-04
13	.9	93.0	0.0	4256	.701E-05	13782	.282E-04	21638	.476E-04	.277E-04
15	.9	81.0	0.0	5473	.978E-05	16862	.348E-04	24398	.538E-04	.329E-04
17	.9	69.0	0.0	6439	.120E-04	19172	.397E-04	25682	.567E-04	.363E-04
19	.9	57.0	0.0	7755	.150E-04	21730	.452E-04	27841	.616E-04	.408E-04
20	.9	51.0	0.0	8400	.164E-04	22825	.475E-04	28338	.627E-04	.424E-04
21	.9	45.0	0.0	8949	.177E-04	23209	.484E-04	27815	.616E-04	.427E-04
22	.9	39.0	0.0	9511	.190E-04	23701	.494E-04	27711	.613E-04	.434E-04
23	.9	33.0	0.0	10282	.207E-04	24070	.503E-04	27071	.599E-04	.438E-04
25	.9	21.0	0.0	11272	.230E-04	24643	.514E-04	25698	.568E-04	.439E-04
26	.9	15.0	0.0	11180	.228E-04	24008	.501E-04	24647	.544E-04	.426E-04
27	.9	9.0	0.0	11216	.228E-04	23322	.486E-04	23065	.508E-04	.410E-04
28	.9	3.0	0.0	11790	.242E-04	23196	.483E-04	21	.000E+00	.246E-04
29	.9	-3.0	0.0	11666	.239E-04	22794	.475E-04	20931	.460E-04	.393E-04
30	.9	-9.0	0.0	11408	.233E-04	21873	.455E-04	19920	.437E-04	.377E-04
31	.9	-15.0	0.0	11338	.231E-04	20766	.431E-04	18190	.398E-04	.355E-04
32	.9	-21.0	0.0	10754	.218E-04	19541	.405E-04	16743	.366E-04	.331E-04
34	.9	-33.0	0.0	9574	.191E-04	16339	.337E-04	12834	.278E-04	.270E-04
36	.9	-45.0	0.0	8126	.158E-04	12769	.260E-04	8874	.188E-04	.203E-04
38	.9	-57.0	0.0	6263	.116E-04	9162	.183E-04	6005	.124E-04	.142E-04
40	.9	-69.0	0.0	4556	.769E-05	6402	.124E-04	4008	.785E-05	.938E-05
42	.9	-81.0	0.0	3386	.503E-05	4368	.808E-05	2803	.513E-05	.612E-05
44	.9	-93.0	0.0	2385	.275E-05	2737	.459E-05	1847	.298E-05	.346E-05
46	.9	-105.0	0.0	1428	.574E-06	1005	.885E-06	736	.469E-06	.647E-06
48	.9	-117.0	0.0	1943	.175E-05	1815	.262E-05	1254	.164E-05	.201E-05
49	.9	-126.0	0.0	1369	.439E-06	966	.802E-06	704	.397E-06	.551E-06
50	.9	-141.0	0.0	1239	.143E-06	761	.364E-06	615	.196E-06	.237E-06

RUN # 12

EX,TEST NO.1,4M
100%,IN,BLEX04::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.96 M/S	25.57 M/S	2.62 M/S	22.61 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.88E+03		.31E+03		.28E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	STACK #1 RAW (AREA)	STACK #1 CONCENTRATION (1/M*M)	STACK #2 RAW (AREA)	STACK #2 CONCENTRATION (1/M*M)	STACK #3 RAW (AREA)	STACK #3 CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	1.2	201.0	0.0	1827	.216E-05	2285	.422E-05	3670	.766E-05	.468E-05
5	1.2	171.0	0.0	799	.000E+00	543	.498E-06	868	.134E-05	.612E-06
7	1.2	141.0	0.0	3554	.609E-05	9378	.194E-04	15216	.337E-04	.198E-04
9	1.2	117.0	0.0	5147	.971E-05	12833	.268E-04	19236	.428E-04	.265E-04
11	1.2	105.0	0.0	6321	.124E-04	14939	.313E-04	21122	.470E-04	.303E-04
13	1.2	93.0	0.0	7885	.159E-04	17377	.365E-04	22925	.511E-04	.346E-04
15	1.2	81.0	0.0	9044	.186E-04	19095	.402E-04	23811	.531E-04	.374E-04
17	1.2	69.0	0.0	10224	.213E-04	20650	.435E-04	24249	.541E-04	.397E-04
19	1.2	57.0	0.0	11857	.250E-04	22147	.467E-04	24770	.553E-04	.424E-04
20	1.2	51.0	0.0	12549	.266E-04	22615	.477E-04	24642	.550E-04	.432E-04
21	1.2	45.0	0.0	13299	.283E-04	23140	.488E-04	24317	.542E-04	.439E-04
23	1.2	33.0	0.0	14319	.306E-04	23018	.486E-04	22408	.499E-04	.432E-04
25	1.2	21.0	0.0	14681	.314E-04	22463	.474E-04	20708	.461E-04	.418E-04
26	1.2	15.0	0.0	14821	.317E-04	21966	.463E-04	19863	.442E-04	.409E-04
27	1.2	9.0	0.0	15167	.325E-04	22176	.468E-04	19599	.436E-04	.411E-04
28	1.2	3.0	0.0	15265	.327E-04	21449	.452E-04	18121	.403E-04	.395E-04
29	1.2	-3.0	0.0	15426	.331E-04	21213	.447E-04	17549	.390E-04	.390E-04
30	1.2	-9.0	0.0	15202	.326E-04	20218	.426E-04	16266	.361E-04	.372E-04
31	1.2	-15.0	0.0	14592	.312E-04	19024	.400E-04	14978	.332E-04	.349E-04
32	1.2	-21.0	0.0	13805	.294E-04	17344	.364E-04	13217	.292E-04	.318E-04
34	1.2	-33.0	0.0	12364	.261E-04	14763	.309E-04	10629	.234E-04	.269E-04
36	1.2	-45.0	0.0	11108	.233E-04	12192	.254E-04	8212	.179E-04	.223E-04
38	1.2	-57.0	0.0	9351	.193E-04	9537	.197E-04	6017	.130E-04	.174E-04
40	1.2	-69.0	0.0	7719	.156E-04	7274	.149E-04	4376	.925E-05	.133E-04
44	1.2	-93.0	0.0	4194	.754E-05	3262	.631E-05	2002	.390E-05	.592E-05
48	1.2	-117.0	0.0	3187	.525E-05	2285	.422E-05	1484	.273E-05	.407E-05
50	1.2	-141.0	0.0	1590	.162E-05	960	.139E-05	764	.110E-05	.137E-05
52	1.2	-171.0	0.0	1284	.922E-06	674	.821E-06	591	.713E-06	.818E-06
54	1.2	-201.0	0.0	1201	.733E-06	600	.620E-06	521	.555E-06	.635E-06

RUN # 13

EX,TEST NO.1,5M
100%,IN,ELEX05::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.96 M/S	25.57 M/S	2.62 M/S	22.61 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.91E+03		.48E+03		.40E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	1.5	201.0	0.0	1294	.874E-06	1517	.221E-05	2163	.397E-05	.235E-05
5	1.5	171.0	0.0	1798	.202E-05	3437	.632E-05	5252	.109E-04	.644E-05
7	1.5	141.0	0.0	2735	.415E-05	5922	.110E-04	9150	.197E-04	.119E-04
9	1.5	117.0	0.0	3998	.703E-05	8597	.174E-04	12484	.272E-04	.172E-04
13	1.5	93.0	0.0	5852	.112E-04	12069	.248E-04	16300	.359E-04	.240E-04
17	1.5	69.0	0.0	8173	.165E-04	15755	.327E-04	20041	.443E-04	.312E-04
19	1.5	57.0	0.0	9656	.199E-04	17606	.366E-04	21782	.482E-04	.350E-04
21	1.5	45.0	0.0	10768	.224E-04	18971	.395E-04	22698	.503E-04	.375E-04
23	1.5	33.0	0.0	11983	.252E-04	20342	.425E-04	23148	.513E-04	.398E-04
24	1.5	27.0	0.0	12724	.269E-04	21050	.440E-04	23378	.518E-04	.410E-04
25	1.5	21.0	0.0	13619	.289E-04	21734	.454E-04	23426	.519E-04	.422E-04
26	1.5	15.0	0.0	14367	.306E-04	22355	.468E-04	23625	.524E-04	.434E-04
27	1.5	9.0	0.0	14647	.313E-04	22239	.465E-04	22803	.505E-04	.429E-04
29	1.5	-3.0	0.0	15823	.339E-04	23075	.483E-04	22609	.501E-04	.442E-04
30	1.5	-9.0	0.0	16276	.350E-04	23289	.488E-04	22174	.491E-04	.444E-04
31	1.5	-15.0	0.0	16567	.356E-04	23170	.485E-04	21319	.472E-04	.439E-04
32	1.5	-21.0	0.0	16543	.356E-04	22480	.470E-04	20259	.448E-04	.426E-04
34	1.5	-33.0	0.0	16159	.347E-04	21256	.444E-04	1827	.321E-05	.277E-04
36	1.5	-45.0	0.0	15901	.341E-04	19832	.414E-04	15947	.351E-04	.369E-04
38	1.5	-57.0	0.0	14910	.319E-04	17758	.369E-04	13384	.293E-04	.328E-04
40	1.5	-69.0	0.0	13389	.284E-04	15	.000E+00	5163	.107E-04	.128E-04
44	1.5	-93.0	0.0	9643	.199E-04	9694	.197E-04	6332	.134E-04	.177E-04
48	1.5	-117.0	0.0	7948	.160E-04	7384	.148E-04	4686	.966E-05	.135E-04
50	1.5	-141.0	0.0	3715	.638E-05	2768	.489E-05	1531	.254E-05	.460E-05
52	1.5	-171.0	0.0	2099	.271E-05	1443	.205E-05	778	.844E-06	.187E-05
54	1.5	-201.0	0.0	1157	.562E-06	762	.597E-06	492	.199E-06	.455E-06

EX,TEST NO.1,6M
100%,IN,BLEX06::18,198

RUN # 14

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.96 M/S	25.57 M/S	2.62 M/S	22.61 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.16E+04		.12E+04		.10E+04	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	1.8	201.0	0.0	2394	.180E-05	3787	.549E-05	5331	.974E-05	.569E-05
5	1.8	171.0	0.0	4209	.594E-05	7923	.143E-04	11104	.228E-04	.144E-04
7	1.8	141.0	0.0	5920	.983E-05	10996	.209E-04	14467	.303E-04	.204E-04
9	1.8	117.0	0.0	7799	.141E-04	13992	.273E-04	17394	.369E-04	.262E-04
13	1.8	93.0	0.0	9362	.177E-04	16278	.322E-04	19270	.412E-04	.304E-04
15	1.8	81.0	0.0	10299	.198E-04	17370	.345E-04	19896	.426E-04	.324E-04
16	1.8	75.0	0.0	10835	.210E-04	17866	.356E-04	19969	.428E-04	.332E-04
17	1.8	69.0	0.0	10678	.207E-04	18093	.361E-04	19893	.426E-04	.332E-04
19	1.8	57.0	0.0	12110	.239E-04	18465	.369E-04	19691	.421E-04	.344E-04
21	1.8	45.0	0.0	12506	.248E-04	18858	.377E-04	19670	.421E-04	.350E-04
22	1.8	33.0	0.0	13592	.273E-04	18931	.379E-04	19216	.411E-04	.355E-04
24	1.8	27.0	0.0	14242	.288E-04	19011	.380E-04	18977	.405E-04	.358E-04
25	1.8	21.0	0.0	14206	.287E-04	18641	.373E-04	18277	.389E-04	.350E-04
26	1.8	15.0	0.0	14399	.291E-04	18469	.369E-04	17770	.378E-04	.347E-04
27	1.8	9.0	0.0	13944	.281E-04	17931	.357E-04	16953	.360E-04	.333E-04
28	1.8	3.0	0.0	14071	.284E-04	17448	.347E-04	16275	.344E-04	.326E-04
29	1.8	-3.0	0.0	14044	.283E-04	17070	.339E-04	15587	.329E-04	.317E-04
30	1.8	-9.0	0.0	13797	.278E-04	16459	.326E-04	14714	.309E-04	.305E-04
31	1.8	-15.0	0.0	13346	.267E-04	15605	.308E-04	13669	.285E-04	.287E-04
32	1.8	-21.0	0.0	13447	.270E-04	15196	.299E-04	12982	.270E-04	.280E-04
34	1.8	-33.0	0.0	12056	.238E-04	13832	.270E-04	11357	.233E-04	.247E-04
36	1.8	-45.0	0.0	11252	.220E-04	12183	.234E-04	9517	.192E-04	.216E-04
38	1.8	-57.0	0.0	9839	.187E-04	10121	.190E-04	7685	.150E-04	.176E-04
40	1.8	-69.0	0.0	8924	.167E-04	8901	.164E-04	6604	.126E-04	.153E-04
44	1.8	-93.0	0.0	6803	.118E-04	6163	.106E-04	4366	.756E-05	.100E-04
48	1.8	-117.0	0.0	5760	.947E-05	4916	.791E-05	3485	.557E-05	.765E-05
50	1.8	-141.0	0.0	3300	.387E-05	2554	.286E-05	1787	.174E-05	.282E-05
52	1.8	-171.0	0.0	2171	.130E-05	1555	.721E-06	1176	.365E-06	.791E-06
54	1.8	-201.0	0.0	1793	.437E-06	1281	.135E-06	1027	.293E-07	.198E-06

RUN # 15

EX,TEST NO.1,8M
100%,IN,BLEX08::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.96 M/S	25.57 M/S	2.62 M/S	22.61 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.13E+04		.90E+03		.66E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	2.4	201.0	0.0	3100	.426E-05	4586	.787E-05	5245	.104E-04	.751E-05
5	2.4	171.0	0.0	5948	.106E-04	9262	.179E-04	10536	.223E-04	.169E-04
7	2.4	141.0	0.0	7789	.140E-04	11606	.229E-04	12926	.277E-04	.218E-04
9	2.4	117.0	0.0	9357	.183E-04	13440	.268E-04	14344	.309E-04	.254E-04
13	2.4	93.0	0.0	11070	.222E-04	14874	.299E-04	15230	.329E-04	.284E-04
15	2.4	81.0	0.0	12150	.247E-04	15652	.315E-04	15691	.339E-04	.301E-04
16	2.4	75.0	0.0	12568	.256E-04	15732	.317E-04	15563	.336E-04	.304E-04
17	2.4	69.0	0.0	12597	.257E-04	15561	.313E-04	15172	.327E-04	.300E-04
19	2.4	57.0	0.0	13286	.273E-04	15915	.321E-04	15134	.327E-04	.307E-04
20	2.4	51.0	0.0	13470	.277E-04	15917	.321E-04	14932	.322E-04	.307E-04
21	2.4	45.0	0.0	13461	.277E-04	15677	.316E-04	14579	.314E-04	.303E-04
23	2.4	39.0	0.0	13648	.281E-04	15758	.318E-04	14526	.313E-04	.304E-04
24	2.4	33.0	0.0	13648	.281E-04	15410	.310E-04	14015	.301E-04	.298E-04
24	2.4	27.0	0.0	13758	.283E-04	15107	.304E-04	13437	.288E-04	.292E-04
25	2.4	21.0	0.0	13758	.283E-04	15107	.304E-04	13437	.288E-04	.292E-04
26	2.4	15.0	0.0	13625	.280E-04	14697	.295E-04	12950	.277E-04	.284E-04
27	2.4	9.0	0.0	13559	.279E-04	14501	.291E-04	12596	.269E-04	.280E-04
28	2.4	3.0	0.0	13404	.275E-04	14147	.283E-04	12183	.260E-04	.273E-04
29	2.4	-3.0	0.0	13412	.276E-04	14026	.281E-04	11889	.253E-04	.270E-04
30	2.4	-9.0	0.0	12984	.266E-04	13411	.267E-04	11193	.238E-04	.257E-04
31	2.4	-15.0	0.0	12677	.259E-04	12954	.258E-04	10701	.227E-04	.248E-04
32	2.4	-21.0	0.0	12261	.249E-04	12333	.244E-04	10047	.212E-04	.235E-04
36	2.4	-45.0	0.0	10979	.220E-04	10046	.195E-04	7665	.158E-04	.191E-04
38	2.4	-57.0	0.0	10219	.203E-04	8965	.172E-04	6730	.137E-04	.171E-04
40	2.4	-69.0	0.0	9411	.184E-04	8073	.153E-04	5931	.119E-04	.152E-04
44	2.4	-93.0	0.0	7578	.143E-04	5977	.108E-04	4009	.756E-05	.109E-04
48	2.4	-117.0	0.0	6548	.119E-04	5069	.891E-05	3325	.602E-05	.894E-05
50	2.4	-141.0	0.0	4098	.635E-05	2960	.440E-05	1859	.271E-05	.448E-05
52	2.4	-171.0	0.0	2637	.303E-05	1783	.188E-05	1114	.103E-05	.198E-05
54	2.4	-201.0	0.0	1893	.134E-05	1235	.700E-06	805	.336E-06	.790E-06

RUN # 16

EX,TEST NO.2,1M
40%,IN,BLEX11::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	1.30 M/S	11.22 M/S	1.12 M/S	9.67 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.91E+03		.33E+03		.17E+03	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	.3	201.0	0.0	1036	.627E-06	470	.691E-06	323	.772E-06	.697E-06
5	.3	171.0	0.0	1080	.850E-06	583	.124E-05	524	.179E-05	.129E-05
7	.3	141.0	0.0	1076	.829E-06	998	.326E-05	1452	.647E-05	.352E-05
9	.3	117.0	0.0	1112	.101E-05	1869	.750E-05	3167	.151E-04	.788E-05
13	.3	93.0	0.0	1306	.192E-05	3876	.173E-04	6630	.326E-04	.173E-04
17	.3	69.0	0.0	1828	.463E-05	8256	.386E-04	12139	.604E-04	.346E-04
19	.3	57.0	0.0	2329	.717E-05	12301	.582E-04	15151	.756E-04	.472E-04
21	.3	45.0	0.0	2978	.104E-04	15754	.750E-04	16938	.846E-04	.570E-04
22	.3	39.0	0.0	3314	.121E-04	16934	.808E-04	17058	.853E-04	.597E-04
23	.3	33.0	0.0	3711	.142E-04	17979	.859E-04	16811	.840E-04	.617E-04
24	.3	27.0	0.0	4019	.157E-04	18705	.894E-04	16149	.807E-04	.623E-04
25	.3	21.0	0.0	4283	.170E-04	18647	.891E-04	14866	.742E-04	.605E-04
26	.3	15.0	0.0	4638	.188E-04	19046	.911E-04	13622	.679E-04	.597E-04
27	.3	9.0	0.0	4665	.190E-04	18148	.867E-04	12178	.606E-04	.558E-04
28	.3	3.0	0.0	4648	.189E-04	16708	.797E-04	10299	.511E-04	.503E-04
29	.3	-3.0	0.0	4623	.188E-04	15306	.729E-04	9075	.450E-04	.459E-04
30	.3	-9.0	0.0	4361	.174E-04	13393	.636E-04	7459	.368E-04	.396E-04
31	.3	-15.0	0.0	3960	.154E-04	11162	.527E-04	5946	.292E-04	.327E-04
32	.3	-21.0	0.0	3646	.138E-04	9419	.442E-04	4865	.237E-04	.275E-04
34	.3	-33.0	0.0	2878	.994E-05	6077	.280E-04	2841	.135E-04	.173E-04
36	.3	-45.0	0.0	2087	.594E-05	3347	.147E-04	1431	.637E-05	.907E-05
38	.3	-57.0	0.0	1425	.259E-05	1464	.553E-05	717	.276E-05	.365E-05
40	.3	-69.0	0.0	1127	.109E-05	814	.236E-05	420	.126E-05	.158E-05
44	.3	-93.0	0.0	937	.126E-06	417	.433E-06	235	.328E-06	.298E-06

RUN # 17

EX,TEST NO.2,2M
40%,IN,BLEX12::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	1.30 M/S	11.22 M/S	1.12 M/S	9.67 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.17E+04		.69E+03		.54E+03	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	.6	201.0	0.0	1720	.556E-07	917	.110E-05	964	.215E-05	.110E-05
5	.6	171.0	0.0	2025	.160E-05	2349	.807E-05	3199	.134E-04	.771E-05
7	.6	141.0	0.0	2625	.463E-05	5559	.237E-04	7789	.366E-04	.217E-04
9	.6	117.0	0.0	3541	.926E-05	9218	.415E-04	12084	.583E-04	.364E-04
13	.6	93.0	0.0	5412	.187E-04	14400	.671E-04	17728	.868E-04	.577E-04
17	.6	69.0	0.0	8422	.339E-04	20428	.960E-04	21853	.108E-03	.794E-04
19	.6	57.0	0.0	10724	.456E-04	23237	.110E-03	23223	.115E-03	.902E-04
21	.6	45.0	0.0	13067	.574E-04	25389	.120E-03	23333	.115E-03	.979E-04
22	.6	39.0	0.0	14257	.635E-04	26732	.127E-03	23092	.114E-03	.102E-03
23	.6	33.0	0.0	15211	.683E-04	27154	.129E-03	22676	.112E-03	.103E-03
24	.6	27.0	0.0	16267	.736E-04	27334	.130E-03	22075	.109E-03	.104E-03
25	.6	21.0	0.0	16933	.770E-04	27283	.129E-03	21031	.103E-03	.104E-03
26	.6	15.0	0.0	17676	.807E-04	27017	.128E-03	19809	.973E-04	.102E-03
27	.6	9.0	0.0	17809	.814E-04	26214	.124E-03	18599	.912E-04	.992E-04
28	.6	3.0	0.0	17611	.804E-04	25276	.120E-03	17490	.856E-04	.955E-04
29	.6	-3.0	0.0	16998	.773E-04	23833	.113E-03	16165	.789E-04	.899E-04
30	.6	-9.0	0.0	16754	.771E-04	22673	.107E-03	14139	.687E-04	.845E-04
31	.6	-15.0	0.0	16254	.735E-04	20928	.984E-04	12575	.608E-04	.779E-04
32	.6	-21.0	0.0	15582	.702E-04	19246	.903E-04	11221	.539E-04	.717E-04
34	.6	-33.0	0.0	13420	.592E-04	15456	.710E-04	8134	.383E-04	.567E-04
36	.6	-45.0	0.0	10703	.455E-04	11314	.517E-04	5556	.253E-04	.410E-04
38	.6	-57.0	0.0	8038	.320E-04	7743	.343E-04	3568	.153E-04	.273E-04
40	.6	-69.0	0.0	6197	.227E-04	5469	.232E-04	2422	.951E-05	.185E-04
44	.6	-93.0	0.0	2713	.500E-05	1931	.604E-05	949	.207E-05	.442E-05

RUN # 18

EX,TEST NO.2,3M
40%,IN,BLEX13::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	1.30 M/S	11.22 M/S	1.12 M/S	9.67 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.11E+04		.34E+03		.26E+03	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	.9	201.0	0.0	1389	.125E-05	1160	.401E-05	1459	.607E-05	.378E-05
5	.9	171.0	0.0	2234	.552E-05	4090	.183E-04	5197	.249E-04	.163E-04
7	.9	141.0	0.0	3843	.137E-04	8005	.373E-04	9564	.470E-04	.327E-04
9	.9	117.0	0.0	5874	.239E-04	12047	.570E-04	13666	.677E-04	.496E-04
13	.9	93.0	0.0	9887	.442E-04	17079	.814E-04	17581	.875E-04	.712E-04
17	.9	69.0	0.0	12959	.598E-04	19828	.948E-04	18695	.931E-04	.827E-04
19	.9	57.0	0.0	14489	.675E-04	21020	.101E-03	19237	.950E-04	.882E-04
20	.9	51.0	0.0	15306	.716E-04	21567	.103E-03	19110	.952E-04	.902E-04
21	.9	45.0	0.0	16163	.760E-04	21569	.103E-03	18733	.933E-04	.910E-04
22	.9	39.0	0.0	17255	.815E-04	22321	.107E-03	18630	.928E-04	.939E-04
23	.9	33.0	0.0	17738	.839E-04	22320	.107E-03	18275	.910E-04	.941E-04
24	.9	27.0	0.0	18127	.859E-04	22232	.107E-03	18149	.903E-04	.944E-04
25	.9	21.0	0.0	18672	.886E-04	22556	.108E-03	17634	.877E-04	.950E-04
26	.9	15.0	0.0	19106	.908E-04	22326	.107E-03	17043	.847E-04	.943E-04
27	.9	9.0	0.0	19076	.907E-04	22062	.106E-03	16507	.820E-04	.930E-04
28	.9	3.0	0.0	19043	.905E-04	21459	.103E-03	15677	.778E-04	.905E-04
29	.9	-3.0	0.0	19140	.910E-04	20973	.100E-03	15016	.745E-04	.888E-04
30	.9	-9.0	0.0	19123	.909E-04	20328	.973E-04	14147	.701E-04	.862E-04
31	.9	-15.0	0.0	18499	.870E-04	19381	.926E-04	13042	.645E-04	.818E-04
32	.9	-21.0	0.0	17825	.844E-04	18219	.870E-04	11936	.590E-04	.769E-04
34	.9	-33.0	0.0	16016	.752E-04	16133	.760E-04	10036	.494E-04	.673E-04
36	.9	-45.0	0.0	14385	.670E-04	13878	.659E-04	8051	.393E-04	.575E-04
38	.9	-57.0	0.0	12569	.570E-04	11965	.566E-04	6476	.314E-04	.487E-04
40	.9	-69.0	0.0	10451	.471E-04	9702	.456E-04	4907	.235E-04	.388E-04
44	.9	-93.0	0.0	5115	.201E-04	4479	.202E-04	2005	.882E-05	.164E-04
48	.9	-117.0	0.0	3258	.107E-04	2624	.111E-04	1136	.444E-05	.879E-05

RUN # 19

EX,TEST NO.2,4M
40%,IN,BLEX14::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	1.30 M/S	11.22 M/S	1.12 M/S	9.69 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.91E+03		.17E+03		.14E+03	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	1.2	201.0	0.0	1236	.166E-05	1227	.506E-05	1614	.744E-05	.473E-05
5	1.2	171.0	0.0	2460	.785E-05	4378	.204E-04	5724	.282E-04	.188E-04
7	1.2	141.0	0.0	4731	.193E-04	8436	.401E-04	9793	.487E-04	.361E-04
9	1.2	117.0	0.0	7458	.331E-04	11656	.558E-04	12183	.608E-04	.500E-04
13	1.2	93.0	0.0	10368	.470E-04	14438	.693E-04	14079	.704E-04	.626E-04
17	1.2	69.0	0.0	12514	.587E-04	15867	.763E-04	14949	.748E-04	.700E-04
19	1.2	57.0	0.0	14395	.682E-04	16974	.817E-04	15407	.771E-04	.757E-04
21	1.2	45.0	0.0	14820	.703E-04	16748	.806E-04	14810	.741E-04	.751E-04
22	1.2	39.0	0.0	15471	.736E-04	17264	.831E-04	15016	.751E-04	.773E-04
23	1.2	33.0	0.0	15941	.760E-04	17424	.839E-04	14849	.743E-04	.781E-04
24	1.2	27.0	0.0	16077	.767E-04	17338	.834E-04	14521	.726E-04	.777E-04
25	1.2	21.0	0.0	16382	.782E-04	17446	.840E-04	14234	.712E-04	.779E-04
26	1.2	15.0	0.0	16326	.780E-04	17133	.824E-04	13787	.689E-04	.765E-04
27	1.2	9.0	0.0	16652	.796E-04	17184	.827E-04	13392	.669E-04	.765E-04
28	1.2	3.0	0.0	16658	.796E-04	16679	.802E-04	12749	.637E-04	.746E-04
29	1.2	-3.0	0.0	16640	.796E-04	16387	.788E-04	12250	.611E-04	.732E-04
30	1.2	-9.0	0.0	16385	.783E-04	15767	.750E-04	11571	.578E-04	.707E-04
31	1.2	-15.0	0.0	16197	.773E-04	15263	.733E-04	10901	.543E-04	.684E-04
32	1.2	-21.0	0.0	15852	.756E-04	14544	.698E-04	10232	.509E-04	.655E-04
34	1.2	-33.0	0.0	14565	.691E-04	12863	.617E-04	8677	.431E-04	.580E-04
36	1.2	-45.0	0.0	13120	.618E-04	11242	.530E-04	7368	.365E-04	.507E-04
38	1.2	-57.0	0.0	11219	.521E-04	9315	.444E-04	5874	.289E-04	.419E-04
40	1.2	-69.0	0.0	9818	.451E-04	7753	.369E-04	4721	.231E-04	.350E-04
44	1.2	-93.0	0.0	5828	.249E-04	4128	.192E-04	2258	.107E-04	.183E-04
48	1.2	-117.0	0.0	4237	.160E-04	2723	.123E-04	1457	.665E-05	.119E-04
52	1.2	-171.0	0.0	1063	.784E-06	328	.691E-06	180	.202E-06	.560E-06

RUN # 20

GEP, TEST NO.1, 3M, 198
100%, OUT, BLEV01111S

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E103M3/S	.37E-03M3/S	.29E103M3/S	.35E-03M3/S	.27E103M3/S
SOURCE STRENGTH	.10E106		.53E105		.36E105	
BACKGROUND	.76E103		.29E103		.21E103	
CALIBRATION FACTOR	.45E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	.0	186.0	0.0	1046	.720E-06	559	.648E-06	400	.473E-06	.614E-06
5	.0	171.0	0.0	1033	.687E-06	548	.617E-06	388	.448E-06	.591E-06
6	.0	156.0	0.0	1019	.652E-06	539	.601E-06	386	.438E-06	.564E-06
7	.0	141.0	0.0	1025	.667E-06	538	.598E-06	385	.436E-06	.567E-06
8	.0	126.0	0.0	1051	.733E-06	548	.622E-06	395	.461E-06	.605E-06
11	.0	105.0	0.0	1011	.631E-06	555	.638E-06	443	.581E-06	.617E-06
14	.0	87.0	0.0	1143	.965E-06	553	.871E-06	563	.882E-06	.905E-06
17	.0	69.0	0.0	1105	.869E-06	582	.892E-06	634	.106E-05	.940E-06
20	.0	51.0	0.0	1129	.930E-06	711	.101E-05	770	.140E-05	.111E-05
23	.0	33.0	0.0	1221	.116E-05	814	.125E-05	955	.186E-05	.142E-05
24	.0	15.0	0.0	1142	.962E-06	720	.103E-05	912	.176E-05	.125E-05
11	.0	-15.0	0.0	1044	.715E-06	628	.812E-06	870	.167E-05	.106E-05
14	.0	-33.0	0.0	987	.571E-06	557	.643E-06	802	.148E-05	.885E-06
17	.0	-51.0	0.0	923	.409E-06	475	.442E-06	724	.103E-05	.639E-06
20	.0	-87.0	0.0	781	.505E-07	304	.475E-07	277	.165E-06	.872E-07
23	.0	-123.0	0.0	848	.220E-06	315	.688E-07	170	.000E100	.953E-07
24	.0	-141.0	0.0	911	.379E-06	348	.147E-06	197	.000E100	.174E-06
1	.0	0.0	0.0	1061	.758E-06	553	.671E-06	648	.150E-05	.107E-05
5	.0	0.0	12.0	1478	.180E-05	1119	.198E-05	1502	.323E-05	.233E-05
6	.0	0.0	30.0	2423	.420E-05	2144	.441E-05	2930	.683E-05	.514E-05
7	.0	0.0	42.0	4255	.883E-05	4091	.903E-05	5370	.129E-04	.102E-04
8	.0	0.0	60.0	7471	.166E-04	7433	.170E-04	9237	.226E-04	.168E-04
11	.0	0.0	72.0	12087	.284E-04	11991	.278E-04	13439	.331E-04	.298E-04
14	.0	0.0	90.0	18154	.439E-04	17885	.410E-04	18929	.469E-04	.442E-04
17	.0	0.0	102.0	25416	.623E-04	25022	.587E-04	24379	.605E-04	.605E-04
20	.0	0.0	120.0	34735	.858E-04	33957	.799E-04	30972	.771E-04	.809E-04
23	.0	0.0	132.0	40389	.100E-03	38891	.916E-04	33529	.835E-04	.917E-04
24	.0	0.0	162.0	33200	.820E-04	31409	.741E-04	24036	.617E-04	.726E-04
11	.0	0.0	180.0	22840	.558E-04	21540	.504E-04	17213	.426E-04	.496E-04
14	.0	0.0	192.0	13902	.332E-04	12793	.297E-04	10183	.250E-04	.293E-04
17	.0	0.0	210.0	6935	.153E-04	6224	.141E-04	5048	.121E-04	.139E-04
20	.0	0.0	222.0	3264	.639E-05	2674	.567E-05	1933	.431E-05	.543E-05
23	.0	0.0	240.0	1417	.166E-05	933	.155E-05	703	.123E-05	.140E-05
24	.0	0.0	252.0	1147	.675E-06	833	.895E-06	402	.470E-06	.734E-06
101	.0	0.0	276.0	917	.394E-06	420	.337E-06	286	.100E-06	.307E-06

RUN # 21

DEP, TEST NO.4, 4M, 198
100%, OUT, ELEV02::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.66E+03		.27E+03		.00E+00	
CALIBRATION FACTOR	.40E-02		.21E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
4	1.8	186.0	0.0	736	.165E-06	369	.203E-06	211	.467E-06	.278E-06
5	1.8	171.0	0.0	783	.270E-06	427	.325E-06	280	.637E-06	.410E-06
6	1.8	156.0	0.0	876	.470E-06	526	.533E-06	417	.923E-06	.643E-06
7	1.8	141.0	0.0	967	.681E-06	633	.757E-06	570	.126E-05	.898E-06
8	1.8	126.0	0.0	1164	.112E-05	852	.122E-05	815	.180E-05	.138E-05
11	1.8	105.0	0.0	1347	.153E-05	1062	.166E-05	1138	.252E-05	.190E-05
14	1.8	87.0	0.0	1802	.254E-05	1530	.264E-05	1632	.361E-05	.293E-05
17	1.8	69.0	0.0	2147	.331E-05	1907	.343E-05	2018	.447E-05	.373E-05
20	1.8	51.0	0.0	2329	.372E-05	2103	.384E-05	2210	.489E-05	.415E-05
23	1.8	33.0	0.0	2549	.421E-05	2331	.432E-05	2529	.575E-05	.475E-05
26	1.8	15.0	0.0	2711	.457E-05	2500	.467E-05	2063	.634E-05	.519E-05
31	1.8	-15.0	0.0	2527	.416E-05	2321	.430E-05	2745	.608E-05	.484E-05
34	1.8	-33.0	0.0	2209	.345E-05	1988	.360E-05	2430	.540E-05	.414E-05
37	1.8	-51.0	0.0	1826	.260E-05	1580	.274E-05	1923	.441E-05	.324E-05
40	1.8	-69.0	0.0	1645	.212E-05	1374	.231E-05	1754	.388E-05	.279E-05
43	1.8	-87.0	0.0	1310	.145E-05	1000	.153E-05	1247	.276E-05	.191E-05
46	1.8	-105.0	0.0	1022	.803E-06	692	.801E-06	842	.186E-05	.118E-05
49	1.8	-126.0	0.0	889	.507E-06	534	.542E-06	560	.124E-05	.762E-06
50	1.8	-141.0	0.0	823	.359E-06	461	.376E-06	448	.992E-06	.580E-06
51	1.8	-156.0	0.0	748	.192E-06	382	.231E-06	316	.699E-06	.372E-06
52	1.8	-171.0	0.0	685	.513E-07	313	.060E-07	185	.409E-06	.181E-06
53	1.8	-186.0	0.0	666	.093E-08	289	.357E-07	141	.312E-06	.118E-06
57	1.8	0.0	0.0	2644	.442E-05	2447	.456E-05	2059	.633E-05	.510E-05
58	1.8	0.0	12.0	3165	.559E-05	2970	.566E-05	3319	.735E-05	.619E-05
62	1.8	0.0	30.0	4049	.756E-05	3834	.747E-05	4146	.918E-05	.806E-05
64	1.8	0.0	42.0	5180	.101E-04	4998	.991E-05	5389	.119E-04	.106E-04
67	1.8	0.0	60.0	6545	.131E-04	6352	.128E-04	6630	.147E-04	.135E-04
69	1.8	0.0	72.0	8235	.169E-04	8048	.163E-04	8177	.181E-04	.171E-04
72	1.8	0.0	90.0	9207	.206E-04	9451	.197E-04	9691	.214E-04	.206E-04
74	1.8	0.0	102.0	11738	.247E-04	11473	.235E-04	11030	.244E-04	.242E-04
77	1.8	0.0	120.0	12557	.265E-04	12208	.250E-04	11571	.256E-04	.257E-04
79	1.8	0.0	132.0	13886	.295E-04	13434	.276E-04	12493	.277E-04	.282E-04
82	1.8	0.0	150.0	14470	.308E-04	13957	.287E-04	12702	.283E-04	.293E-04
84	1.8	0.0	162.0	14978	.320E-04	14344	.295E-04	12634	.280E-04	.298E-04
87	1.8	0.0	180.0	14566	.310E-04	13712	.284E-04	11810	.262E-04	.286E-04
89	1.8	0.0	192.0	13576	.288E-04	12846	.264E-04	10716	.237E-04	.263E-04
92	1.8	0.0	210.0	10647	.223E-04	10058	.205E-04	8109	.179E-04	.202E-04
94	1.8	0.0	222.0	8581	.177E-04	7985	.162E-04	6346	.140E-04	.160E-04
97	1.8	0.0	240.0	6107	.122E-04	5519	.110E-04	4228	.936E-05	.108E-04
99	1.8	0.0	258.0	4006	.746E-05	3543	.686E-05	2591	.573E-05	.669E-05
101	1.8	0.0	276.0	2424	.393E-05	2011	.345E-05	1419	.314E-05	.357E-05

RUN # 22

DEP, TEST NO.1, 12M, 198
100%, OUT, BLEV03::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.35E+05	
BACKGROUND	.10E+04		.47E+03		.20E+03	
CALIBRATION FACTOR	.40E-02		.21E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
4	3.6	186.0	0.0	2439	.316E-05	1853	.221E-05	1658	.305E-05	.304E-05
5	3.6	171.0	0.0	2608	.354E-05	2033	.329E-05	1852	.348E-05	.343E-05
6	3.6	156.0	0.0	2968	.434E-05	2401	.404E-05	2217	.429E-05	.423E-05
7	3.6	141.0	0.0	3172	.480E-05	2606	.449E-05	2462	.483E-05	.470E-05
9	3.6	126.0	0.0	3413	.534E-05	2864	.503E-05	2752	.547E-05	.527E-05
10	3.6	111.0	0.0	3603	.576E-05	3059	.544E-05	3004	.603E-05	.574E-05
11	3.6	97.0	0.0	3915	.646E-05	3392	.614E-05	3434	.698E-05	.652E-05
16	3.6	75.0	0.0	4008	.666E-05	3490	.634E-05	3607	.737E-05	.678E-05
18	3.6	63.0	0.0	4189	.707E-05	3653	.668E-05	3813	.782E-05	.718E-05
20	3.6	51.0	0.0	4262	.723E-05	3739	.686E-05	3985	.820E-05	.742E-05
22	3.6	39.0	0.0	4372	.748E-05	3869	.714E-05	4163	.860E-05	.773E-05
24	3.6	27.0	0.0	4461	.768E-05	3941	.729E-05	4258	.881E-05	.791E-05
26	3.6	15.0	0.0	4396	.753E-05	3894	.719E-05	4233	.875E-05	.781E-05
28	3.6	3.0	0.0	4321	.736E-05	3792	.698E-05	4153	.857E-05	.763E-05
31	3.6	-15.0	0.0	4059	.676E-05	3538	.644E-05	3931	.808E-05	.709E-05
33	3.6	-27.0	0.0	3995	.664E-05	3454	.627E-05	3852	.791E-05	.693E-05
35	3.6	-39.0	0.0	3786	.617E-05	3247	.583E-05	3608	.737E-05	.645E-05
39	3.6	-63.0	0.0	3317	.512E-05	2767	.483E-05	3104	.625E-05	.539E-05
41	3.6	-75.0	0.0	3040	.450E-05	2488	.424E-05	2784	.554E-05	.475E-05
42	3.6	-87.0	0.0	2928	.425E-05	2361	.397E-05	2624	.519E-05	.446E-05
45	3.6	-99.0	0.0	2712	.377E-05	2131	.349E-05	2361	.461E-05	.395E-05
47	3.6	-111.0	0.0	2555	.342E-05	1967	.315E-05	2172	.419E-05	.358E-05
49	3.6	-126.0	0.0	2316	.289E-05	1729	.265E-05	1871	.352E-05	.301E-05
50	3.6	-141.0	0.0	2060	.232E-05	1460	.208E-05	1590	.290E-05	.243E-05
51	3.6	-156.0	0.0	1829	.180E-05	1232	.161E-05	1342	.235E-05	.191E-05
52	3.6	-171.0	0.0	1679	.147E-05	1061	.125E-05	1163	.196E-05	.155E-05
53	3.6	-186.0	0.0	1429	.106E-05	897	.904E-06	974	.154E-05	.116E-05
57	3.6	0.0	0.0	4259	.722E-05	3754	.690E-05	4070	.839E-05	.749E-05
59	3.6	0.0	12.0	4364	.746E-05	3825	.704E-05	4122	.851E-05	.766E-05
61	3.6	0.0	24.0	4573	.793E-05	4058	.753E-05	4292	.888E-05	.810E-05
63	3.6	0.0	36.0	4877	.860E-05	4331	.811E-05	4549	.945E-05	.871E-05
65	3.6	0.0	48.0	5251	.944E-05	4700	.888E-05	4810	.100E-04	.944E-05
67	3.6	0.0	60.0	5597	.102E-04	5011	.953E-05	5093	.107E-04	.101E-04
69	3.6	0.0	72.0	6016	.111E-04	5500	.106E-04	5414	.114E-04	.110E-04
71	3.6	0.0	84.0	6500	.122E-04	5903	.114E-04	5753	.121E-04	.119E-04
75	3.6	0.0	108.0	7102	.136E-04	6469	.126E-04	6140	.130E-04	.130E-04
77	3.6	0.0	120.0	7415	.143E-04	6774	.132E-04	6408	.136E-04	.137E-04
79	3.6	0.0	132.0	7795	.151E-04	7147	.140E-04	6589	.140E-04	.144E-04
81	3.6	0.0	144.0	7991	.156E-04	7355	.144E-04	6706	.142E-04	.147E-04
83	3.6	0.0	156.0	7854	.152E-04	7214	.142E-04	6571	.139E-04	.144E-04
85	3.6	0.0	168.0	7806	.151E-04	7114	.139E-04	6337	.134E-04	.142E-04
87	3.6	0.0	180.0	7551	.146E-04	6895	.135E-04	6209	.131E-04	.137E-04

RUN # 23

GEP, TEST NO.4, 12M, 198
100%, OUT, BLEV04::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.77E+03		.34E+03		.30E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
9	3.6	126.0	144.0	5927	.131E-04	5424	.121E-04	4645	.109E-04	.120E-04
11	3.6	105.0	144.0	6484	.145E-04	5968	.134E-04	5259	.125E-04	.135E-04
14	3.6	87.0	144.0	6992	.158E-04	6475	.146E-04	5828	.139E-04	.148E-04
17	3.6	69.0	144.0	7485	.170E-04	6960	.150E-04	6302	.151E-04	.160E-04
20	3.6	51.0	144.0	7418	.169E-04	6928	.157E-04	6345	.152E-04	.159E-04
23	3.6	33.0	144.0	7608	.174E-04	7095	.161E-04	6574	.158E-04	.164E-04
26	3.6	15.0	144.0	7634	.174E-04	7118	.162E-04	6640	.160E-04	.165E-04
31	3.6	-15.0	144.0	7398	.168E-04	6868	.156E-04	6468	.155E-04	.160E-04
34	3.6	-33.0	144.0	6943	.157E-04	6416	.145E-04	6131	.147E-04	.149E-04
37	3.6	-51.0	144.0	6741	.152E-04	6225	.140E-04	5983	.143E-04	.145E-04
40	3.6	-69.0	144.0	6199	.138E-04	5689	.128E-04	5530	.132E-04	.132E-04
42	3.6	-81.0	144.0	5745	.126E-04	5223	.117E-04	5107	.121E-04	.121E-04
46	3.6	-105.0	144.0	5066	.109E-04	4553	.101E-04	4481	.105E-04	.105E-04
49	3.6	-126.0	144.0	4238	.880E-05	3743	.813E-05	3745	.867E-05	.852E-05
79	3.6	0.0	132.0	7370	.167E-04	6888	.156E-04	6517	.156E-04	.160E-04
82	3.6	0.0	150.0	7602	.173E-04	7090	.161E-04	6608	.159E-04	.164E-04
84	3.6	0.0	162.0	7494	.171E-04	6957	.158E-04	6422	.154E-04	.161E-04

RUN # 24

GEP, TEST NO.4, 6M, 198
100%, OUT, BLEV05::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.84E+03		.39E+03		.37E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	1.8	126.0	165.0	5168	.110E-04	4554	.992E-05	3443	.774E-05	.955E-05
11	1.8	105.0	165.0	7955	.180E-04	7222	.163E-04	5544	.130E-04	.158E-04
14	1.8	87.0	165.0	10354	.241E-04	9614	.220E-04	7490	.179E-04	.214E-04
17	1.8	69.0	165.0	12774	.303E-04	11927	.275E-04	9606	.233E-04	.270E-04
20	1.8	51.0	165.0	14455	.345E-04	13723	.318E-04	11448	.279E-04	.314E-04
23	1.8	33.0	165.0	16343	.393E-04	15503	.360E-04	13322	.326E-04	.360E-04
26	1.8	15.0	165.0	16933	.408E-04	16163	.376E-04	14607	.350E-04	.381E-04
31	1.8	-15.0	165.0	15519	.372E-04	14770	.343E-04	14006	.343E-04	.353E-04
34	1.8	-33.0	165.0	13601	.324E-04	12894	.298E-04	12708	.311E-04	.311E-04
37	1.8	-51.0	165.0	11670	.275E-04	10961	.252E-04	11059	.269E-04	.265E-04
40	1.8	-69.0	165.0	8787	.202E-04	8185	.186E-04	8232	.198E-04	.195E-04
42	1.8	-81.0	165.0	6060	.132E-04	5423	.122E-04	5682	.134E-04	.129E-04
46	1.8	-105.0	165.0	3879	.770E-05	3340	.703E-05	3629	.821E-05	.764E-05
49	1.8	-126.0	165.0	2606	.447E-05	2156	.420E-05	2238	.471E-05	.446E-05
79	1.8	0.0	132.0	16517	.390E-04	15041	.360E-04	15050	.370E-04	.378E-04
82	1.8	0.0	150.0	17125	.413E-04	16366	.381E-04	15276	.375E-04	.390E-04
84	1.8	0.0	162.0	17058	.411E-04	16321	.380E-04	14901	.366E-04	.386E-04
87	1.8	0.0	180.0	15575	.374E-04	14745	.342E-04	13299	.325E-04	.347E-04

RUN # 25

GEP, TEST NO.4, 3M, 198
100%, OUT, BLEV06::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.78E+03		.29E+03		.27E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	.9	126.0	144.0	1632	.215E-05	1142	.204E-05	954	.172E-05	.197E-05
11	.9	105.0	144.0	3427	.671E-05	2853	.612E-05	1899	.410E-05	.565E-05
14	.9	87.0	144.0	9061	.210E-04	8220	.189E-04	5062	.121E-04	.173E-04
17	.9	69.0	144.0	18039	.438E-04	16857	.395E-04	11347	.279E-04	.371E-04
20	.9	51.0	144.0	28779	.710E-04	27069	.639E-04	19373	.481E-04	.610E-04
23	.9	33.0	144.0	40401	.101E-03	38364	.908E-04	28940	.722E-04	.878E-04
26	.9	15.0	144.0	43392	.108E-03	41292	.978E-04	35433	.885E-04	.981E-04
31	.9	-15.0	144.0	33122	.821E-04	31882	.753E-04	31454	.785E-04	.786E-04
34	.9	-33.0	144.0	22739	.557E-04	21604	.508E-04	23184	.577E-04	.547E-04
37	.9	-51.0	144.0	16406	.396E-04	15356	.359E-04	17202	.426E-04	.393E-04
40	.9	-69.0	144.0	7920	.181E-04	7216	.165E-04	8571	.209E-04	.185E-04
43	.9	-87.0	144.0	3003	.563E-05	2442	.514E-05	3057	.702E-05	.592E-05
46	.9	-105.0	144.0	1864	.274E-05	1296	.241E-05	1941	.421E-05	.311E-05
49	.9	-126.0	144.0	889	.266E-06	388	.243E-06	468	.501E-06	.335E-06
77	.9	0.0	120.0	37366	.920E-04	36327	.859E-04	35079	.876E-04	.887E-04
79	.9	0.0	132.0	42464	.106E-03	40908	.969E-04	38037	.951E-04	.992E-04
82	.9	0.0	150.0	41477	.103E-03	40060	.948E-04	35758	.893E-04	.958E-04

RUN # 26

DEP, TEST NO.6, 2M, 198
40%, OUT, BLEV07!!18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.14E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.74E+03		.17E+03		.16E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
6	.6	156.0	0.0	847	.620E-06	278	.604E-06	236	.460E-06	.565E-06
8	.6	141.0	0.0	841	.594E-06	272	.571E-06	232	.437E-06	.534E-06
10	.6	126.0	0.0	843	.605E-06	270	.560E-06	238	.472E-06	.546E-06
11	.6	105.0	0.0	842	.599E-06	280	.615E-06	242	.495E-06	.570E-06
14	.6	87.0	0.0	908	.730E-06	327	.878E-06	292	.782E-06	.879E-06
17	.6	69.0	0.0	1019	.162E-05	427	.143E-05	398	.139E-05	.148E-05
20	.6	51.0	0.0	1172	.250E-05	564	.219E-05	532	.216E-05	.228E-05
23	.6	33.0	0.0	1323	.337E-05	704	.227E-05	682	.303E-05	.312E-05
26	.6	15.0	0.0	1374	.370E-05	742	.322E-05	736	.334E-05	.344E-05
31	.6	-15.0	0.0	1268	.305E-05	655	.269E-05	661	.271E-05	.288E-05
34	.6	-33.0	0.0	1164	.246E-05	557	.215E-05	559	.232E-05	.231E-05
37	.6	-51.0	0.0	973	.135E-05	385	.120E-05	373	.125E-05	.127E-05
40	.6	-69.0	0.0	869	.755E-06	289	.665E-06	277	.696E-06	.705E-06
43	.6	-87.0	0.0	781	.248E-06	211	.233E-06	189	.170E-06	.224E-06
46	.6	-105.0	0.0	750	.692E-07	184	.832E-07	155	.000E+00	.512E-07
5??	.6	0.0	0.0	1374	.367E-05	749	.322E-05	760	.348E-05	.345E-05
59	.6	0.0	12.0	2061	.762E-05	1374	.660E-05	1432	.734E-05	.721E-05
62	.6	0.0	30.0	4079	.193E-04	3213	.169E-04	3448	.189E-04	.183E-04
64	.6	0.0	42.0	8270	.434E-04	7158	.387E-04	7503	.423E-04	.414E-04
67	.6	0.0	60.0	14001	.764E-04	12702	.695E-04	13216	.751E-04	.736E-04
69	.6	0.0	72.0	20608	.115E-03	19129	.105E-03	20041	.114E-03	.111E-03
72	.6	0.0	90.0	24974	.140E-03	23830	.131E-03	24074	.138E-03	.136E-03
74	.6	0.0	102.0	25656	.144E-03	24902	.137E-03	24092	.130E-03	.139E-03
79	.6	0.0	132.0	20308	.113E-03	20191	.111E-03	16973	.968E-04	.107E-03
82	.6	0.0	150.0	11658	.622E-04	11325	.612E-04	9306	.526E-04	.592E-04
84	.6	0.0	162.0	5887	.297E-04	5524	.297E-04	4100	.227E-04	.274E-04
87	.6	0.0	180.0	2208	.847E-05	1732	.867E-05	1233	.620E-05	.779E-05
89	.6	0.0	192.0	1050	.180E-05	527	.198E-05	399	.140E-05	.173E-05
92	.6	0.0	210.0	819	.467E-06	241	.392E-06	208	.299E-06	.389E-06
94	.6	0.0	222.0	815	.444E-06	238	.383E-06	198	.242E-06	.356E-06
97	.6	0.0	240.0	770	.184E-06	213	.244E-06	171	.863E-07	.172E-06

RUN # 27

DEP, TEST NO.6, 2M, 199
40%, OUT, BLEV08:::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.67E+03		.15E+03		.16E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	.6	126.0	105.0	858	.110E-05	330	.101E-05	318	.913E-06	.101E-05
11	.6	105.0	105.0	1134	.270E-05	607	.255E-05	592	.250E-05	.258E-05
14	.6	87.0	105.0	2266	.925E-05	1664	.844E-05	1612	.839E-05	.869E-05
17	.6	69.0	105.0	5071	.255E-04	4293	.231E-04	4155	.231E-04	.239E-04
23	.6	33.0	105.0	18685	.104E-03	17796	.983E-04	17028	.975E-04	.100E-03
26	.6	15.0	105.0	25537	.144E-03	24631	.136E-03	24183	.139E-03	.140E-03
31	.6	-15.0	105.0	23267	.131E-03	22542	.125E-03	22520	.129E-03	.128E-03
34	.6	-33.0	105.0	15185	.841E-04	14315	.789E-04	14389	.823E-04	.817E-04
37	.6	-51.0	105.0	8341	.444E-04	7477	.408E-04	8000	.453E-04	.435E-04
40	.6	-69.0	105.0	3093	.140E-04	2370	.124E-04	2621	.142E-04	.135E-04
43	.6	-87.0	105.0	1482	.471E-05	879	.407E-05	1005	.488E-05	.455E-05
46	.6	-105.0	105.0	884	.125E-05	342	.108E-05	368	.120E-05	.117E-05
49	.6	-126.0	105.0	723	.318E-06	201	.290E-06	196	.208E-06	.272E-06
74	.6	0.0	102.0	26821	.151E-03	26295	.146E-03	25142	.144E-03	.147E-03

RUN # 28

GEP, TEST NO.6, 4M, 198
40%, OUT, BLEV09:18

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.82E+03		.20E+03		.25E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	STACK #1 RAW (AREA)	STACK #1 CONCENTRATION (1/M*M)	STACK #2 RAW (AREA)	STACK #2 CONCENTRATION (1/M*M)	STACK #3 RAW (AREA)	STACK #3 CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
5	1.2	171.0	0.0	1011	.110E-05	471	.108E-05	436	.109E-05	.109E-05
6	1.2	156.0	0.0	1042	.128E-05	516	.133E-05	471	.129E-05	.130E-05
7	1.2	141.0	0.0	1116	.171E-05	574	.165E-05	531	.164E-05	.167E-05
8	1.2	126.0	0.0	1257	.252E-05	693	.231E-05	656	.236E-05	.240E-05
11	1.2	105.0	0.0	1613	.457E-05	1032	.419E-05	1001	.434E-05	.437E-05
14	1.2	87.0	0.0	2163	.774E-05	1540	.701E-05	1511	.728E-05	.734E-05
17	1.2	69.0	0.0	2612	.103E-04	1960	.934E-05	1930	.969E-05	.978E-05
20	1.2	51.0	0.0	3145	.134E-04	2452	.121E-04	2446	.127E-04	.127E-04
23	1.2	33.0	0.0	3458	.152E-04	2742	.137E-04	2769	.145E-04	.145E-04
26	1.2	15.0	0.0	3545	.157E-04	2808	.140E-04	2875	.151E-04	.149E-04
31	1.2	-15.0	0.0	3444	.151E-04	2728	.136E-04	2777	.147E-04	.145E-04
34	1.2	-33.0	0.0	2908	.120E-04	2204	.107E-04	2283	.117E-04	.115E-04
37	1.2	-51.0	0.0	2522	.981E-05	1844	.869E-05	1941	.975E-05	.941E-05
43	1.2	-87.0	0.0	1409	.386E-05	879	.334E-05	920	.388E-05	.369E-05
46	1.2	-105.0	0.0	1177	.206E-05	607	.184E-05	628	.220E-05	.203E-05
49	1.2	-126.0	0.0	961	.813E-06	397	.671E-06	395	.857E-06	.779E-06
50	1.2	-141.0	0.0	894	.426E-06	339	.349E-06	316	.403E-06	.392E-06
57	1.2	0.0	0.0	3539	.157E-04	2813	.141E-04	2874	.151E-04	.149E-04
59	1.2	0.0	12.0	4469	.210E-04	3723	.191E-04	3754	.202E-04	.201E-04
62	1.2	0.0	30.0	5978	.297E-04	5188	.272E-04	5275	.289E-04	.286E-04
64	1.2	0.0	42.0	7661	.394E-04	6787	.361E-04	6884	.382E-04	.379E-04
67	1.2	0.0	60.0	9260	.486E-04	8363	.440E-04	8433	.471E-04	.468E-04

SAMPLE PT	X (KM)	Y (M)	Z (M)	STACK #1 RAW (AREA)	STACK #1 CONCENTRATION (1/M*M)	STACK #2 RAW (AREA)	STACK #2 CONCENTRATION (1/M*M)	STACK #3 RAW (AREA)	STACK #3 CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
69	1.2	0.0	72.0	10986	.586E-04	10091	.544E-04	9992	.561E-04	.563E-04
72	1.2	0.0	90.0	12000	.644E-04	11165	.604E-04	10774	.606E-04	.618E-04
74	1.2	0.0	102.0	11929	.640E-04	11217	.607E-04	10701	.602E-04	.616E-04
77	1.2	0.0	120.0	10938	.583E-04	10411	.562E-04	9644	.541E-04	.562E-04
79	1.2	0.0	132.0	9521	.501E-04	8954	.481E-04	8075	.450E-04	.478E-04
82	1.2	0.0	150.0	7346	.376E-04	6011	.362E-04	5990	.330E-04	.356E-04
84	1.2	0.0	162.0	5638	.278E-04	5173	.272E-04	4392	.239E-04	.263E-04
87	1.2	0.0	180.0	3703	.166E-04	3235	.164E-04	2705	.141E-04	.157E-04
89	1.2	0.0	192.0	2874	.118E-04	2395	.117E-04	1996	.101E-04	.112E-04
92	1.2	0.0	210.0	2009	.685E-05	1495	.676E-05	1243	.574E-05	.645E-05
94	1.2	0.0	222.0	1421	.346E-05	889	.340E-05	715	.270E-05	.319E-05
97	1.2	0.0	240.0	1117	.171E-05	616	.189E-05	491	.141E-05	.167E-05
99	1.2	0.0	258.0	908	.507E-06	388	.621E-06	336	.518E-06	.550E-06
101	1.2	0.0	276.0	885	.375E-06	366	.499E-06	305	.339E-06	.406E-06

RUN # 29

GEP, TEST NO.6, 4M, 198
40%, OUT, BLEV10::1B

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.56 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.67E+03		.10E+03		.11E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	1.2	126.0	99.0	2775	.122E-04	2157	.110E-04	2112	.116E-04	.116E-04
11	1.2	105.0	99.0	4237	.207E-04	3581	.182E-04	3566	.200E-04	.198E-04
14	1.2	87.0	99.0	5795	.277E-04	5118	.275E-04	5067	.286E-04	.286E-04
17	1.2	69.0	99.0	7837	.415E-04	7148	.388E-04	7157	.407E-04	.403E-04
20	1.2	51.0	99.0	1114	.250E-05	504	.224E-05	614	.290E-05	.257E-05
23	1.2	33.0	99.0	10948	.595E-04	10289	.563E-04	10296	.589E-04	.582E-04
26	1.2	15.0	99.0	11157	.607E-04	10546	.577E-04	10547	.603E-04	.596E-04
31	1.2	-15.0	99.0	10020	.541E-04	9301	.512E-04	9524	.544E-04	.532E-04
34	1.2	-33.0	99.0	8613	.460E-04	7967	.434E-04	8006	.456E-04	.450E-04
37	1.2	-51.0	99.0	7039	.369E-04	6414	.347E-04	6508	.370E-04	.362E-04
40	1.2	-69.0	99.0	5126	.258E-04	4492	.240E-04	4565	.257E-04	.252E-04
43	1.2	-87.0	99.0	3428	.160E-04	2846	.148E-04	2919	.162E-04	.157E-04
46	1.2	-105.0	99.0	2234	.906E-05	1676	.832E-05	1734	.938E-05	.891E-05
49	1.2	-126.0	99.0	1331	.383E-05	789	.338E-05	823	.411E-05	.377E-05
72	1.2	0.0	90.0	10978	.597E-04	10364	.567E-04	10407	.595E-04	.586E-04
74	1.2	0.0	102.0	10447	.566E-04	9859	.539E-04	9982	.571E-04	.558E-04

RUN # 30

GEP, TEST NO.6, 8M, 198
40%, OUT, BLEV11:18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.83E+03		.27E+03		.24E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
5	2.4	171.0	0.0	1717	.512E-05	1126	.477E-05	1060	.475E-05	.488E-05
6	2.4	156.0	0.0	2015	.684E-05	1415	.638E-05	1356	.645E-05	.655E-05
7	2.4	141.0	0.0	2390	.900E-05	1779	.839E-05	1718	.853E-05	.864E-05
8	2.4	126.0	0.0	2757	.111E-04	2131	.103E-04	2084	.106E-04	.107E-04
11	2.4	105.0	0.0	3230	.138E-04	2568	.128E-04	2527	.132E-04	.133E-04
14	2.4	87.0	0.0	3728	.167E-04	3042	.154E-04	3035	.161E-04	.161E-04
17	2.4	69.0	0.0	4171	.193E-04	3490	.172E-04	3476	.186E-04	.186E-04
20	2.4	51.0	0.0	4525	.213E-04	3825	.197E-04	3823	.206E-04	.206E-04
23	2.4	33.0	0.0	4814	.230E-04	4107	.213E-04	4103	.223E-04	.222E-04
26	2.4	15.0	0.0	4913	.235E-04	4203	.218E-04	4214	.229E-04	.227E-04
31	2.4	-15.0	0.0	4671	.221E-04	3957	.205E-04	4012	.217E-04	.214E-04
34	2.4	-33.0	0.0	4377	.205E-04	3690	.190E-04	3742	.202E-04	.199E-04
37	2.4	-51.0	0.0	3864	.175E-04	3122	.162E-04	3246	.173E-04	.170E-04
40	2.4	-69.0	0.0	3422	.149E-04	2760	.138E-04	2824	.149E-04	.146E-04
43	2.4	-87.0	0.0	2874	.118E-04	2235	.109E-04	2284	.118E-04	.115E-04
46	2.4	-105.0	0.0	2303	.850E-05	1698	.794E-05	1723	.856E-05	.833E-05
49	2.4	-126.0	0.0	1781	.549E-05	1181	.508E-05	1172	.551E-05	.536E-05
50	2.4	-141.0	0.0	1521	.392E-05	937	.373E-05	942	.407E-05	.393E-05
51	2.4	-156.0	0.0	1327	.288E-05	750	.269E-05	744	.293E-05	.283E-05
52	2.4	-171.0	0.0	1103	.150E-05	536	.150E-05	522	.165E-05	.158E-05
57	2.4	0.0	0.0	4801	.229E-04	4083	.212E-04	4098	.222E-04	.221E-04
59	2.4	0.0	12.0	4948	.237E-04	4231	.220E-04	4209	.229E-04	.229E-04
62	2.4	0.0	30.0	5183	.251E-04	4469	.233E-04	4440	.242E-04	.242E-04
64	2.4	0.0	42.0	5435	.266E-04	4727	.247E-04	4669	.255E-04	.256E-04
67	2.4	0.0	60.0	5667	.279E-04	4980	.261E-04	4885	.268E-04	.269E-04
69	2.4	0.0	72.0	5843	.289E-04	5176	.272E-04	5024	.276E-04	.279E-04
72	2.4	0.0	90.0	5911	.293E-04	5270	.277E-04	5115	.281E-04	.284E-04
74	2.4	0.0	102.0	5708	.281E-04	5144	.271E-04	4942	.271E-04	.274E-04
77	2.4	0.0	120.0	5407	.264E-04	4829	.253E-04	4641	.254E-04	.257E-04
79	2.4	0.0	132.0	5015	.241E-04	4478	.234E-04	4246	.231E-04	.235E-04
82	2.4	0.0	150.0	4590	.217E-04	4028	.209E-04	3763	.203E-04	.209E-04
84	2.4	0.0	162.0	3961	.181E-04	3431	.176E-04	3207	.171E-04	.176E-04
87	2.4	0.0	180.0	3267	.141E-04	2742	.137E-04	2520	.131E-04	.136E-04
89	2.4	0.0	192.0	2668	.106E-04	2147	.104E-04	1972	.100E-04	.104E-04
92	2.4	0.0	210.0	2124	.747E-05	1521	.735E-05	1404	.673E-05	.718E-05
94	2.4	0.0	222.0	1705	.552E-05	1234	.537E-05	1072	.486E-05	.525E-05
97	2.4	0.0	240.0	1478	.375E-05	956	.383E-05	834	.345E-05	.368E-05
99	2.4	0.0	258.0	1237	.236E-05	708	.246E-05	605	.213E-05	.232E-05
101	2.4	0.0	276.0	1070	.139E-05	532	.140E-05	826	.340E-05	.208E-05

RUN # 31

GEP, TEST NO.6, R1, 198
40%, OUT, SM, BLEV12::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.64E+03		.15E+03		.73E+02	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

AMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	2.4	126.0	90.0	3030	.138E-04	2446	.128E-04	2360	.132E-04	.133E-04
11	2.4	105.0	90.0	3527	.167E-04	2913	.154E-04	2809	.158E-04	.160E-04
14	2.4	87.0	90.0	4172	.204E-04	3522	.188E-04	3411	.193E-04	.195E-04
17	2.4	69.0	90.0	4636	.231E-04	3962	.213E-04	3861	.219E-04	.221E-04
20	2.4	51.0	90.0	4922	.248E-04	4253	.229E-04	4177	.237E-04	.238E-04
23	2.4	33.0	90.0	5397	.275E-04	4720	.255E-04	4643	.264E-04	.265E-04
26	2.4	15.0	90.0	5673	.291E-04	4981	.269E-04	4913	.280E-04	.280E-04
31	2.4	-15.0	90.0	5713	.294E-04	5039	.273E-04	5021	.286E-04	.284E-04
34	2.4	-33.0	90.0	5454	.279E-04	4774	.258E-04	4775	.272E-04	.269E-04
37	2.4	-51.0	90.0	5134	.260E-04	4482	.242E-04	4457	.253E-04	.252E-04
40	2.4	-69.0	90.0	4587	.228E-04	3933	.211E-04	3945	.224E-04	.221E-04
43	2.4	-87.0	90.0	4180	.205E-04	3560	.190E-04	3579	.203E-04	.199E-04
46	2.4	-105.0	90.0	3562	.169E-04	2964	.157E-04	2963	.167E-04	.164E-04
49	2.4	-126.0	90.0	2886	.130E-04	2303	.120E-04	2339	.131E-04	.127E-04
57	2.4	0.0	0.0	4355	.215E-04	3639	.195E-04	3712	.210E-04	.207E-04
59	2.4	0.0	12.0	4463	.221E-04	3735	.200E-04	3804	.216E-04	.212E-04
62	2.4	0.0	30.0	4725	.236E-04	4005	.215E-04	4071	.231E-04	.227E-04
64	2.4	0.0	42.0	5102	.258E-04	4392	.237E-04	4415	.251E-04	.248E-04
67	2.4	0.0	60.0	5475	.280E-04	4764	.257E-04	4785	.272E-04	.270E-04
69	2.4	0.0	72.0	5622	.288E-04	4923	.266E-04	4923	.280E-04	.278E-04
72	2.4	0.0	90.0	5694	.293E-04	4992	.270E-04	5005	.285E-04	.282E-04
74	2.4	0.0	102.0	5704	.293E-04	5075	.275E-04	4992	.284E-04	.284E-04
77	2.4	0.0	120.0	5574	.286E-04	4969	.269E-04	4822	.275E-04	.276E-04
79	2.4	0.0	132.0	5240	.266E-04	4638	.250E-04	4426	.256E-04	.257E-04
82	2.4	0.0	150.0	4761	.239E-04	4180	.225E-04	3997	.227E-04	.230E-04
84	2.4	0.0	162.0	4070	.199E-04	3504	.187E-04	3311	.187E-04	.191E-04
87	2.4	0.0	180.0	3279	.153E-04	2745	.145E-04	2573	.145E-04	.147E-04
89	2.4	0.0	192.0	2854	.128E-04	2320	.121E-04	2142	.120E-04	.123E-04
92	2.4	0.0	210.0	2222	.915E-05	1709	.871E-05	1529	.842E-05	.876E-05
94	2.4	0.0	222.0	1732	.632E-05	1225	.602E-05	1055	.568E-05	.600E-05
97	2.4	0.0	240.0	1357	.415E-05	874	.406E-05	1713	.948E-05	.587E-05
99	2.4	0.0	258.0	1079	.254E-05	598	.252E-05	1904	.106E-04	.518E-05

RUN # 32

GEP; TEST NO.6; R2; 198
40%; OUT; 8M; BLEV13:18.

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.70 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.73E+03		.24E+03		.15E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	2.4	126.0	90.0	2916	.127E-04	2344	.117E-04	2264	.122E-04	.122E-04
11	2.4	105.0	90.0	3715	.173E-04	3105	.160E-04	3035	.167E-04	.166E-04
14	2.4	87.0	90.0	4370	.211E-04	3734	.195E-04	3649	.202E-04	.202E-04
17	2.4	69.0	90.0	4939	.244E-04	4205	.225E-04	4122	.234E-04	.234E-04
20	2.4	51.0	90.0	5376	.269E-04	4718	.250E-04	4670	.261E-04	.260E-04
23	2.4	33.0	90.0	5839	.296E-04	5159	.274E-04	5077	.285E-04	.285E-04
26	2.4	15.0	90.0	5979	.304E-04	5282	.281E-04	5223	.293E-04	.293E-04
31	2.4	-15.0	90.0	5918	.300E-04	5253	.279E-04	5190	.291E-04	.290E-04
34	2.4	-33.0	90.0	5726	.289E-04	5043	.268E-04	5014	.281E-04	.279E-04
37	2.4	-51.0	90.0	5509	.277E-04	4849	.257E-04	4807	.269E-04	.267E-04
40	2.4	-69.0	90.0	5021	.248E-04	4348	.229E-04	4335	.242E-04	.240E-04
43	2.4	-87.0	90.0	4405	.213E-04	3757	.196E-04	3731	.207E-04	.205E-04
46	2.4	-105.0	90.0	3917	.185E-04	3297	.170E-04	3268	.180E-04	.178E-04
49	2.4	-126.0	90.0	3273	.147E-04	2602	.136E-04	2657	.145E-04	.143E-04
57	2.4	0.0	0.0	5408	.271E-04	4644	.245E-04	4714	.264E-04	.260E-04
59	2.4	0.0	12.0	5543	.279E-04	4767	.252E-04	4810	.269E-04	.267E-04
62	2.4	0.0	30.0	5805	.294E-04	5045	.268E-04	5074	.285E-04	.282E-04
64	2.4	0.0	42.0	6001	.305E-04	5252	.279E-04	5262	.295E-04	.293E-04
67	2.4	0.0	60.0	6207	.317E-04	5485	.292E-04	5454	.307E-04	.305E-04
69	2.4	0.0	72.0	6213	.317E-04	5507	.293E-04	5450	.306E-04	.306E-04
72	2.4	0.0	90.0	6037	.307E-04	5342	.285E-04	5298	.298E-04	.297E-04
74	2.4	0.0	102.0	5708	.293E-04	5157	.274E-04	5070	.284E-04	.284E-04
77	2.4	0.0	120.0	5480	.275E-04	4862	.258E-04	4743	.265E-04	.266E-04
79	2.4	0.0	132.0	5027	.249E-04	4444	.234E-04	4287	.239E-04	.241E-04
82	2.4	0.0	150.0	4297	.207E-04	3749	.196E-04	3551	.197E-04	.200E-04
84	2.4	0.0	162.0	3678	.171E-04	3175	.164E-04	2949	.162E-04	.165E-04
87	2.4	0.0	180.0	2899	.126E-04	2400	.120E-04	2182	.117E-04	.121E-04
89	2.4	0.0	192.0	2316	.910E-05	1828	.886E-05	1679	.884E-05	.896E-05
92	2.4	0.0	210.0	1767	.600E-05	1280	.580E-05	1133	.568E-05	.583E-05
94	2.4	0.0	222.0	1403	.370E-05	904	.371E-05	782	.365E-05	.375E-05
97	2.4	0.0	240.0	1076	.200E-05	597	.200E-05	518	.213E-05	.204E-05

RUN # 33

GEP, TEST NO.6, R0, 198
40%, OUT, 8M, ELEV14::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.84E+03		.26E+03		.24E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	2.4	126.0	90.0	3844	.173E-04	2965	.150E-04	3053	.162E-04	.161E-04
11	2.4	105.0	90.0	4340	.202E-04	3394	.174E-04	3525	.189E-04	.188E-04
14	2.4	87.0	90.0	4820	.229E-04	3814	.197E-04	3980	.215E-04	.214E-04
17	2.4	69.0	90.0	5237	.253E-04	4187	.218E-04	4380	.238E-04	.236E-04
20	2.4	51.0	90.0	5681	.279E-04	4554	.238E-04	4763	.260E-04	.259E-04
23	2.4	33.0	90.0	5928	.293E-04	4834	.253E-04	5048	.277E-04	.274E-04
26	2.4	15.0	90.0	6041	.300E-04	4997	.257E-04	5121	.281E-04	.279E-04
31	2.4	-15.0	90.0	5997	.297E-04	4883	.256E-04	5066	.278E-04	.277E-04
34	2.4	-33.0	90.0	5728	.282E-04	4580	.240E-04	4795	.262E-04	.261E-04
37	2.4	-51.0	90.0	5367	.261E-04	4296	.224E-04	4511	.246E-04	.243E-04
40	2.4	-69.0	90.0	4884	.233E-04	3857	.199E-04	4054	.220E-04	.217E-04
43	2.4	-87.0	90.0	4222	.195E-04	3298	.168E-04	3472	.186E-04	.183E-04
46	2.4	-105.0	90.0	3430	.149E-04	2579	.128E-04	2713	.142E-04	.140E-04
49	2.4	-126.0	90.0	2717	.108E-04	1948	.934E-05	2038	.104E-04	.102E-04
72	2.4	0.0	90.0	6147	.306E-04	5075	.267E-04	5354	.294E-04	.289E-04

RUN # 34

GEP; TEST NO.6; R4; 190
40%; OUT; 8M; ELEV15:18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.71E+03		.27E+03		.24E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	2.4	126.0	90.0	3748	.176E-04	3203	.163E-04	3081	.164E-04	.168E-04
11	2.4	105.0	90.0	4385	.213E-04	3821	.198E-04	3701	.200E-04	.203E-04
14	2.4	87.0	90.0	4959	.246E-04	4373	.229E-04	4256	.232E-04	.235E-04
17	2.4	69.0	90.0	5528	.279E-04	4939	.260E-04	4803	.264E-04	.267E-04
20	2.4	51.0	90.0	5754	.292E-04	5174	.273E-04	5021	.276E-04	.280E-04
26	2.4	15.0	90.0	6272	.322E-04	5684	.302E-04	5493	.304E-04	.309E-04
31	2.4	-15.0	90.0	5799	.306E-04	5437	.288E-04	5261	.290E-04	.295E-04
34	2.4	-33.0	90.0	5497	.277E-04	4942	.260E-04	4796	.263E-04	.267E-04
37	2.4	-51.0	90.0	5045	.251E-04	4492	.235E-04	4382	.239E-04	.242E-04
40	2.4	-69.0	90.0	4393	.213E-04	3871	.201E-04	3752	.203E-04	.206E-04
43	2.4	-87.0	90.0	3647	.170E-04	3149	.160E-04	3052	.162E-04	.164E-04
46	2.4	-105.0	90.0	3083	.137E-04	2609	.130E-04	2520	.132E-04	.133E-04
49	2.4	-126.0	90.0	2476	.102E-04	1999	.964E-05	1959	.993E-05	.993E-05
57	2.4	0.0	0.0	4724	.232E-04	4079	.212E-04	4138	.225E-04	.223E-04
59	2.4	0.0	12.0	4918	.244E-04	4275	.223E-04	4305	.235E-04	.234E-04
62	2.4	0.0	30.0	5207	.260E-04	4550	.238E-04	4570	.250E-04	.250E-04
64	2.4	0.0	42.0	5494	.277E-04	4849	.255E-04	4821	.265E-04	.265E-04
67	2.4	0.0	60.0	5712	.290E-04	5086	.268E-04	5025	.276E-04	.278E-04
69	2.4	0.0	72.0	6190	.317E-04	5585	.296E-04	5412	.299E-04	.304E-04
72	2.4	0.0	90.0	6201	.318E-04	5622	.298E-04	5413	.299E-04	.305E-04
74	2.4	0.0	102.0	6087	.311E-04	5535	.293E-04	5331	.294E-04	.300E-04
77	2.4	0.0	120.0	5910	.301E-04	5386	.285E-04	5100	.281E-04	.289E-04
79	2.4	0.0	132.0	5568	.281E-04	5130	.271E-04	4735	.260E-04	.271E-04
82	2.4	0.0	150.0	5001	.248E-04	4515	.237E-04	4188	.228E-04	.238E-04
84	2.4	0.0	162.0	4282	.207E-04	3824	.198E-04	3509	.189E-04	.198E-04
87	2.4	0.0	180.0	3472	.160E-04	3043	.155E-04	2741	.144E-04	.153E-04
89	2.4	0.0	192.0	2905	.127E-04	2477	.123E-04	2194	.113E-04	.121E-04
92	2.4	0.0	210.0	2137	.826E-05	1710	.803E-05	1499	.727E-05	.785E-05
94	2.4	0.0	222.0	1709	.570E-05	1263	.554E-05	1128	.512E-05	.548E-05
97	2.4	0.0	240.0	1348	.369E-05	930	.368E-05	819	.334E-05	.357E-05
99	2.4	0.0	258.0	1068	.207E-05	633	.203E-05	563	.186E-05	.199E-05

RUN # 35

GEP, TEST NO.6, R3, 198
40%, OUT, 8M, ELEV16:::18

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.28 M/S	1.74 M/S	14.28 M/S	1.74 M/S	14.28 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.67E+03		.17E+03		.98E+02	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
8	2.4	126.0	90.0	3094	.140E-04	2600	.135E-04	2327	.129E-04	.135E-04
11	2.4	105.0	90.0	3600	.170E-04	3106	.163E-04	2832	.158E-04	.164E-04
14	2.4	87.0	90.0	4172	.203E-04	3710	.197E-04	3396	.191E-04	.197E-04
17	2.4	69.0	90.0	4580	.226E-04	4099	.219E-04	3781	.213E-04	.219E-04
20	2.4	51.0	90.0	4794	.239E-04	4325	.231E-04	3983	.225E-04	.232E-04
23	2.4	33.0	90.0	5372	.272E-04	4912	.264E-04	4512	.255E-04	.264E-04
26	2.4	15.0	90.0	5509	.280E-04	5075	.273E-04	4608	.261E-04	.271E-04
31	2.4	-15.0	90.0	5532	.282E-04	5099	.274E-04	4655	.263E-04	.273E-04
34	2.4	-33.0	90.0	5431	.276E-04	4961	.267E-04	4532	.256E-04	.266E-04
37	2.4	-51.0	90.0	5199	.262E-04	4755	.255E-04	4358	.246E-04	.255E-04
40	2.4	-69.0	90.0	4949	.248E-04	4507	.241E-04	4106	.232E-04	.240E-04
43	2.4	-87.0	90.0	4386	.215E-04	3930	.209E-04	3596	.202E-04	.209E-04
46	2.4	-105.0	90.0	3827	.183E-04	3361	.179E-04	3105	.174E-04	.178E-04
49	2.4	-126.0	90.0	3020	.136E-04	2533	.131E-04	2348	.130E-04	.133E-04
57	2.4	0.0	0.0	4768	.237E-04	4166	.222E-04	4080	.230E-04	.230E-04
59	2.4	0.0	12.0	4807	.240E-04	4207	.225E-04	4091	.231E-04	.232E-04
62	2.4	0.0	30.0	5034	.253E-04	4475	.240E-04	4272	.242E-04	.245E-04
64	2.4	0.0	42.0	5357	.271E-04	4821	.259E-04	4601	.260E-04	.263E-04
67	2.4	0.0	60.0	5595	.285E-04	5080	.273E-04	4777	.270E-04	.276E-04
69	2.4	0.0	72.0	5712	.292E-04	5257	.283E-04	4853	.275E-04	.283E-04
72	2.4	0.0	90.0	5693	.291E-04	5271	.284E-04	4818	.273E-04	.283E-04
74	2.4	0.0	102.0	5440	.276E-04	5062	.272E-04	4547	.257E-04	.269E-04
77	2.4	0.0	120.0	5201	.262E-04	4808	.258E-04	4302	.243E-04	.255E-04
79	2.4	0.0	132.0	4706	.230E-04	4409	.236E-04	3904	.220E-04	.231E-04
82	2.4	0.0	150.0	4308	.211E-04	3916	.208E-04	3428	.192E-04	.204E-04
84	2.4	0.0	162.0	3684	.175E-04	3300	.174E-04	2847	.159E-04	.169E-04
87	2.4	0.0	180.0	3021	.136E-04	2627	.137E-04	2203	.122E-04	.132E-04
89	2.4	0.0	192.0	2506	.106E-04	2116	.108E-04	1758	.960E-05	.104E-04
92	2.4	0.0	210.0	1925	.727E-05	1502	.740E-05	1221	.649E-05	.706E-05
94	2.4	0.0	222.0	1507	.485E-05	1062	.495E-05	858	.439E-05	.473E-05
97	2.4	0.0	240.0	1213	.314E-05	753	.323E-05	616	.299E-05	.312E-05
99	2.4	0.0	258.0	990	.185E-05	528	.198E-05	434	.194E-05	.192E-05

RUN # 36

GEP TEST NO.4, 4M-8M
100%,OUT,BLER01!!!8:198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.36 M/S	20.42 M/S	2.58 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.38E+05	
BACKGROUND	.24E+03		.21E+03		.20E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
10	1.2	60.0	0.0	1577	.143E 05	916	.150E 05	1151	.213E-05	.169E-05
11	1.2	30.0	0.0	1834	.201E-05	1235	.210E-05	1727	.342E-05	.253E-05
12	1.2	15.0	0.0	1933	.223E-05	1342	.241E-05	1871	.375E-05	.279E-05
13	1.2	7.5	0.0	1869	.216E-05	1302	.232E-05	1724	.357E-05	.268E-05
14	1.2	0.0	0.0	1224	.634E-06	603	.835E-06	740	.121E-05	.893E-06
15	1.2	-7.5	0.0	1820	.198E-05	1224	.216E-05	1662	.328E-05	.247E-05
16	1.2	-15.0	0.0	1753	.183E-05	1147	.199E-05	1578	.309E-05	.230E-05
17	1.2	-30.0	0.0	1564	.140E-05	923	.152E-05	1301	.247E-05	.179E-05
18	1.2	-60.0	0.0	1211	.605E-06	534	.690E-06	739	.121E-05	.833E-06
19	1.5	30.0	0.0	2529	.358E-05	1964	.373E-05	2538	.524E-05	.418E-05
20	1.5	15.0	0.0	2457	.342E-05	1891	.357E-05	2459	.506E-05	.401E-05
21	1.5	0.0	0.0	2376	.323E-05	1807	.339E-05	2364	.485E-05	.382E-05
22	1.5	-15.0	0.0	2202	.284E-05	1604	.296E-05	2149	.437E-05	.339E-05
23	1.5	-30.0	0.0	1943	.226E-05	1316	.235E-05	1811	.361E-05	.273E-05
24	1.8	90.0	0.0	2273	.300E-05	1627	.301E-05	1059	.372E-05	.324E-05
25	1.8	60.0	0.0	2790	.417E-05	2189	.421E-05	2599	.538E-05	.458E-05
26	1.8	30.0	0.0	2895	.441E-05	2332	.451E-05	2902	.606E-05	.498E-05
27	1.8	15.0	0.0	2918	.446E-05	2330	.450E-05	2928	.612E-05	.502E-05
28	1.8	0.0	0.0	2830	.426E-05	2242	.432E-05	2819	.587E-05	.481E-05
29	1.8	-30.0	0.0	2415	.332E-05	1789	.336E-05	2390	.491E-05	.385E-05
30	1.8	-60.0	0.0	1839	.202E-05	1195	.209E-05	1620	.318E-05	.243E-05
40	1.9	-90.0	0.0	1371	.966E-06	700	.104E-05	917	.161E-05	.120E-05
41	2.1	30.0	0.0	3353	.544E-05	2767	.543E-05	3319	.699E-05	.595E-05
42	2.1	15.0	0.0	3277	.527E-05	2728	.535E-05	3329	.701E-05	.597E-05
43	2.1	0.0	0.0	3242	.519E-05	2637	.516E-05	3267	.688E-05	.573E-05
44	2.1	-15.0	0.0	3055	.477E-05	2443	.474E-05	3120	.655E-05	.534E-05
45	2.1	-30.0	0.0	2750	.408E-05	2126	.407E-05	2756	.573E-05	.462E-05
46	2.1	120.0	0.0	2554	.364E-05	1855	.350E-05	1842	.368E-05	.360E-05
47	2.4	90.0	0.0	3155	.499E-05	2482	.483E-05	2614	.541E-05	.507E-05
48	2.4	60.0	0.0	3582	.596E-05	2947	.582E-05	3457	.730E-05	.635E-05
49	2.4	30.0	0.0	3664	.614E-05	3064	.606E-05	3612	.765E-05	.661E-05
50	2.4	15.0	0.0	3682	.618E-05	3079	.610E-05	3691	.780E-05	.668E-05
51	2.4	0.0	0.0	3576	.594E-05	3018	.597E-05	3669	.778E-05	.655E-05
52	2.4	-15.0	0.0	3276	.527E-05	2690	.527E-05	3354	.707E-05	.586E-05
53	2.4	-30.0	0.0	2986	.461E-05	2357	.456E-05	3021	.632E-05	.516E-05
54	2.4	-60.0	0.0	2410	.331E-05	1860	.351E-05	2250	.460E-05	.380E-05
55	2.4	-90.0	0.0	1641	.158E-05	972	.162E-05	1175	.219E-05	.179E-05
56	2.4	-120.0	0.0	1399	.103E-05	707	.106E-05	867	.150E-05	.119E-05
57	2.7	90.0	0.0	3394	.553E-05	2715	.532E-05	2823	.588E-05	.557E-05
58	2.7	45.0	0.0	3806	.646E-05	3192	.634E-05	3607	.764E-05	.680E-05
59	2.7	22.5	0.0	3822	.650E-05	3230	.642E-05	3756	.797E-05	.695E-05
60	2.7	0.0	0.0	3677	.617E-05	3054	.604E-05	3636	.770E-05	.663E-05
61	2.7	-22.5	0.0	3316	.536E-05	2681	.525E-05	3241	.686E-05	.581E-05
62	2.7	-45.0	0.0	2911	.444E-05	2462	.479E-05	3665	.777E-05	.565E-05
63	2.7	-90.0	0.0	2050	.250E-05	1355	.243E-05	1603	.315E-05	.269E-05

RUN # 37

DEP TEST NO.4, 10M 15M
100%,OUT,ELEV2:10,190

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.00 M/S	1.74 M/S	14.00 M/S	1.74 M/S	14.00 M/S
EXIT VEL.	2.32 M/S	18.00 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.14E+04		.86E+03		.72E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
54	3.0	135.0	0.0	2138	.165E-05	1674	.173E-05	1474	.167E-05	.168E-05
55	3.0	90.0	0.0	3327	.433E-05	2822	.433E-05	2858	.477E-05	.447E-05
56	3.0	45.0	0.0	4209	.633E-05	3827	.630E-05	4137	.764E-05	.675E-05
57	3.0	22.5	0.0	4345	.663E-05	3959	.658E-05	4300	.818E-05	.712E-05
58	3.0	0.0	0.0	2536	.255E-05	2118	.247E-05	2252	.341E-05	.287E-05
59	3.0	-22.5	0.0	4141	.617E-05	3735	.610E-05	4102	.776E-05	.667E-05
70	3.0	-45.0	0.0	3607	.497E-05	3189	.494E-05	3552	.633E-05	.540E-05
71	3.0	-90.0	0.0	2776	.309E-05	2323	.310E-05	2529	.403E-05	.340E-05
72	3.0	-135.0	0.0	1978	.129E-05	1487	.133E-05	1560	.186E-05	.149E-05
73	3.3	85.0	0.0	4310	.655E-05	3923	.650E-05	4175	.772E-05	.692E-05
74	3.3	22.5	0.0	4442	.685E-05	4042	.678E-05	4411	.825E-05	.728E-05
75	3.3	0.0	0.0	4488	.696E-05	4087	.685E-05	4460	.836E-05	.738E-05
76	3.3	-22.5	0.0	4225	.646E-05	3807	.635E-05	4144	.765E-05	.675E-05
77	3.3	-45.0	0.0	3788	.537E-05	3345	.527E-05	3550	.632E-05	.565E-05
78	3.6	180.0	0.0	2007	.135E-05	1530	.142E-05	1312	.131E-05	.136E-05
79	3.6	135.0	0.0	2800	.314E-05	2346	.315E-05	2156	.320E-05	.317E-05
80	3.6	90.0	0.0	3692	.516E-05	3272	.512E-05	3238	.562E-05	.530E-05
81	3.6	45.0	0.0	4270	.646E-05	3769	.640E-05	4204	.772E-05	.694E-05
82	3.6	22.5	0.0	4534	.706E-05	4140	.696E-05	4447	.833E-05	.744E-05
84	3.6	-22.5	0.0	4214	.634E-05	3793	.622E-05	4077	.750E-05	.668E-05
85	3.6	-45.0	0.0	3880	.550E-05	3430	.545E-05	3693	.664E-05	.589E-05
86	3.6	-90.0	0.0	3062	.374E-05	2603	.370E-05	2781	.460E-05	.401E-05
88	3.6	-180.0	0.0	1605	.445E-06	1116	.543E-06	1093	.818E-06	.601E-06
89	3.9	60.0	0.0	4332	.660E-05	3926	.651E-05	1000	.609E-06	.460E-05
90	3.9	30.0	0.0	4426	.677E-05	4029	.685E-05	4327	.806E-05	.729E-05
91	3.9	0.0	0.0	4515	.702E-05	4075	.682E-05	4333	.807E-05	.730E-05
92	3.9	-30.0	0.0	4169	.623E-05	3730	.609E-05	3927	.716E-05	.649E-05
93	3.9	-60.0	0.0	3690	.515E-05	3220	.501E-05	3384	.595E-05	.536E-05
94	4.2	180.0	0.0	2334	.209E-05	1840	.210E-05	1623	.200E-05	.206E-05
95	4.2	120.0	0.0	3369	.443E-05	2911	.435E-05	2716	.445E-05	.441E-05
96	4.2	60.0	0.0	4363	.667E-05	3948	.655E-05	3991	.731E-05	.684E-05
97	4.2	30.0	0.0	4480	.694E-05	4083	.684E-05	4241	.787E-05	.721E-05
98	4.2	0.0	0.0	4425	.681E-05	4002	.668E-05	4222	.783E-05	.710E-05
99	4.2	-30.0	0.0	4111	.610E-05	3673	.597E-05	3829	.695E-05	.633E-05
101	4.2	-120.0	0.0	2255	.191E-05	1774	.194E-05	1801	.240E-05	.209E-05
102	4.2	-180.0	0.0	1801	.888E-06	1306	.946E-06	1290	.126E-05	.103E-05
103	4.5	60.0	0.0	4416	.672E-05	3981	.662E-05	4000	.733E-05	.691E-05
104	4.5	30.0	0.0	4543	.713E-05	4116	.691E-05	4231	.785E-05	.729E-05
105	4.5	0.0	0.0	4422	.681E-05	4003	.667E-05	4131	.762E-05	.703E-05
106	4.5	-30.0	0.0	4070	.601E-05	3647	.591E-05	3793	.686E-05	.626E-05
107	4.5	-60.0	0.0	3726	.523E-05	3258	.509E-05	3377	.593E-05	.541E-05
108	4.8	180.0	0.0	2750	.303E-05	2280	.301E-05	2006	.286E-05	.297E-05
109	4.8	120.0	0.0	3513	.475E-05	3043	.463E-05	2773	.450E-05	.465E-05

RUN # 38

DEP TEST NO.4, 11M-14M
100%,OUT,DLER04::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.11E+04		.67E+03		.40E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
73	3.3	45.0	0.0	4317	.724E-05	4005	.709E-05	4113	.832E-05	.754E-05
74	3.3	22.5	0.0	4377	.738E-05	4071	.723E-05	4125	.850E-05	.769E-05
75	3.3	0.0	0.0	4263	.712E-05	3950	.697E-05	4234	.859E-05	.755E-05
76	3.3	-22.5	0.0	4088	.673E-05	3748	.654E-05	4063	.820E-05	.715E-05
77	3.3	-45.0	0.0	3907	.609E-05	3461	.593E-05	3732	.746E-05	.649E-05
78	3.6	180.0	0.0	2064	.215E-05	1604	.216E-05	1346	.212E-05	.215E-05
79	3.6	135.0	0.0	2048	.393E-05	2463	.382E-05	2181	.399E-05	.391E-05
80	3.6	90.0	0.0	3857	.620E-05	3518	.605E-05	3402	.672E-05	.632E-05
81	3.6	45.0	0.0	4432	.750E-05	4098	.729E-05	4182	.847E-05	.775E-05
82	3.6	22.5	0.0	4453	.755E-05	4119	.733E-05	4312	.876E-05	.787E-05
83	3.6	0.0	0.0	4371	.736E-05	4043	.717E-05	4297	.873E-05	.774E-05
84	3.6	-22.5	0.0	4152	.687E-05	3794	.664E-05	4033	.814E-05	.721E-05
85	3.6	-45.0	0.0	3837	.616E-05	3496	.601E-05	3717	.743E-05	.652E-05
86	3.6	-90.0	0.0	3061	.441E-05	2697	.431E-05	2850	.549E-05	.473E-05
87	3.6	-135.0	0.0	2185	.243E-05	1797	.240E-05	1826	.319E-05	.267E-05
88	3.6	-180.0	0.0	1603	.111E-05	1195	.112E-05	1113	.140E-05	.128E-05
89	3.9	60.0	0.0	4340	.729E-05	4018	.712E-05	4018	.810E-05	.750E-05
90	3.9	30.0	0.0	4214	.701E-05	3871	.680E-05	3960	.797E-05	.726E-05
91	3.9	0.0	0.0	4390	.741E-05	4041	.716E-05	4238	.860E-05	.771E-05
92	3.9	-30.0	0.0	4125	.697E-05	3842	.674E-05	4018	.810E-05	.726E-05
93	3.9	-60.0	0.0	3706	.586E-05	3344	.569E-05	3493	.693E-05	.615E-05
95	4.2	120.0	0.0	3355	.507E-05	2994	.494E-05	2741	.524E-05	.508E-05
96	4.2	60.0	0.0	4330	.729E-05	3994	.706E-05	4050	.810E-05	.750E-05
97	4.2	30.0	0.0	4407	.745E-05	4057	.720E-05	4102	.831E-05	.764E-05
98	4.2	0.0	0.0	4396	.742E-05	4042	.717E-05	4160	.844E-05	.767E-05
99	4.2	-30.0	0.0	4168	.691E-05	3814	.668E-05	3951	.795E-05	.717E-05
100	4.2	-60.0	0.0	3710	.589E-05	3353	.570E-05	3454	.684E-05	.614E-05
101	4.2	-120.0	0.0	2686	.356E-05	2292	.345E-05	2290	.423E-05	.374E-05
102	4.2	-180.0	0.0	1733	.141E-05	1336	.142E-05	1277	.169E-05	.140E-05
103	4.5	60.0	0.0	3749	.576E-05	3369	.574E-05	3443	.682E-05	.616E-05
104	4.5	30.0	0.0	4147	.666E-05	3784	.662E-05	3879	.779E-05	.708E-05
105	4.5	0.0	0.0	4380	.738E-05	4073	.723E-05	4118	.833E-05	.764E-05
106	4.5	-30.0	0.0	4450	.754E-05	4093	.727E-05	4143	.838E-05	.773E-05
107	4.5	-60.0	0.0	4224	.719E-05	3946	.696E-05	3869	.777E-05	.730E-05
108	4.8	180.0	0.0	2353	.201E-05	1955	.274E-05	1593	.267E-05	.274E-05
109	4.8	120.0	0.0	3599	.542E-05	3214	.541E-05	2900	.560E-05	.554E-05
110	4.8	60.0	0.0	4365	.735E-05	4014	.711E-05	3900	.784E-05	.743E-05
111	4.8	30.0	0.0	4478	.761E-05	4116	.732E-05	4025	.820E-05	.773E-05
112	4.8	0.0	0.0	4419	.747E-05	4004	.726E-05	4057	.819E-05	.763E-05
113	4.8	-30.0	0.0	4119	.680E-05	3763	.657E-05	3906	.743E-05	.692E-05
114	4.8	-60.0	0.0	3776	.602E-05	3322	.579E-05	3427	.678E-05	.619E-05
115	4.8	-120.0	0.0	2802	.400E-05	2521	.394E-05	2439	.457E-05	.417E-05

RUN # 39

GEP TEST NO.6, 1M-7M
40%,OUT,BLER05::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S	1.74 M/S	14.90 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.01 M/S	8.73 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.77E+03		.10E+03		.15E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	.3	15.0	0.0	909	.706E-06	487	.150E-05	264	.604E-06	.945E-06
2	.3	7.5	0.0	885	.479E-06	252	.337E-06	200	.273E-06	.363E-06
3	.3	0.0	0.0	867	.470E-06	264	.397E-06	224	.337E-06	.427E-06
4	.3	-7.5	0.0	882	.537E-06	261	.382E-06	212	.335E-06	.427E-06
5	.3	-15.0	0.0	832	.302E-06	103	.000E+00	111	.000E+00	.102E-06
6	.6	30.0	0.0	1520	.385E-05	821	.316E-05	744	.308E-05	.336E-05
7	.6	15.0	0.0	1562	.407E-05	853	.332E-05	807	.340E-05	.359E-05
8	.6	7.5	0.0	1564	.408E-05	845	.330E-05	825	.350E-05	.365E-05
9	.6	0.0	0.0	1582	.417E-05	855	.333E-05	1081	.482E-05	.410E-05
10	.6	-7.5	0.0	1614	.434E-05	896	.353E-05	925	.401E-05	.395E-05
11	.6	-15.0	0.0	1442	.345E-05	755	.283E-05	730	.301E-05	.309E-05
12	.6	-30.0	0.0	1261	.252E-05	594	.203E-05	544	.205E-05	.220E-05
13	.9	15.0	0.0	2059	.108E-04	2081	.940E-05	2081	.998E-05	.100E-04
14	.9	7.5	0.0	2739	.101E-04	1742	.871E-05	1944	.927E-05	.936E-05
15	.9	0.0	0.0	2711	.999E-05	1917	.859E-05	1918	.914E-05	.923E-05
16	.9	-7.5	0.0	2677	.982E-05	1892	.847E-05	1914	.911E-05	.912E-05
17	.9	-15.0	0.0	2637	.961E-05	1871	.838E-05	1890	.899E-05	.898E-05
18	1.2	60.0	0.0	3264	.128E-04	2503	.115E-04	2445	.112E-04	.121E-04
19	1.2	30.0	0.0	3832	.150E-04	3034	.141E-04	3014	.148E-04	.149E-04
21	1.2	7.5	0.0	4012	.157E-04	3143	.148E-04	3187	.157E-04	.157E-04
22	1.2	0.0	0.0	3965	.155E-04	3149	.147E-04	3200	.157E-04	.156E-04
23	1.2	-7.5	0.0	3897	.151E-04	3080	.144E-04	3127	.154E-04	.153E-04
25	1.2	-30.0	0.0	3223	.126E-04	2429	.111E-04	2479	.120E-04	.119E-04
26	1.2	-60.0	0.0	2330	.803E-05	1655	.729E-05	1656	.778E-05	.770E-05
27	1.5	30.0	0.0	4732	.204E-04	3884	.184E-04	3905	.194E-04	.194E-04
28	1.5	15.0	0.0	4903	.213E-04	4054	.192E-04	4103	.204E-04	.203E-04
29	1.5	0.0	0.0	4542	.194E-04	3713	.175E-04	3747	.186E-04	.185E-04
30	1.5	-15.0	0.0	4208	.181E-04	3472	.163E-04	3543	.175E-04	.173E-04
31	1.5	-30.0	0.0	3802	.160E-04	3100	.145E-04	3163	.156E-04	.153E-04
32	1.8	90.0	0.0	3463	.132E-04	2715	.125E-04	1647	.774E-05	.114E-04
33	1.8	60.0	0.0	4504	.192E-04	3700	.174E-04	3683	.182E-04	.183E-04
34	1.8	30.0	0.0	5158	.226E-04	4329	.205E-04	4327	.216E-04	.216E-04
35	1.8	15.0	0.0	5166	.226E-04	4363	.207E-04	4394	.219E-04	.217E-04
36	1.8	0.0	0.0	5053	.221E-04	4252	.202E-04	4285	.213E-04	.212E-04
37	1.8	-15.0	0.0	4693	.202E-04	3906	.184E-04	3934	.195E-04	.194E-04
38	1.8	-30.0	0.0	4151	.174E-04	3370	.158E-04	3437	.170E-04	.167E-04
39	1.8	-60.0	0.0	2730	.101E-04	1987	.894E-05	2040	.976E-05	.959E-05
40	1.8	-90.0	0.0	2324	.800E-05	1642	.723E-05	1636	.769E-05	.763E-05
41	2.1	30.0	0.0	5401	.239E-04	4605	.219E-04	4539	.227E-04	.228E-04
42	2.1	15.0	0.0	5374	.237E-04	4622	.220E-04	4716	.236E-04	.231E-04
43	2.1	0.0	0.0	5212	.229E-04	4497	.214E-04	4428	.221E-04	.221E-04
44	2.1	-15.0	0.0	4899	.213E-04	4278	.203E-04	4093	.204E-04	.206E-04
45	2.1	-30.0	0.0	4556	.195E-04	3802	.179E-04	3821	.190E-04	.188E-04
49	2.4	30.0	0.0	5421	.240E-04	4635	.221E-04	4614	.230E-04	.230E-04

RUN # 40

GEP TEST NO.6, 9M-13M
40%,OUT,BLER06::10:199

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.01 M/S	8.73 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.94E+03		.23E+03		.19E+03	
CALIBRATION FACTOR	.32E-02		.21E-02		.14E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
46	2.4	120.0	0.0	2011	.931E-05	2031	.863E-05	1961	.803E-05	.892E-05
47	2.4	90.0	0.0	4419	.173E-04	3500	.160E-04	3500	.165E-04	.166E-04
48	2.4	60.0	0.0	5442	.224E-04	4575	.208E-04	4487	.214E-04	.215E-04
49	2.4	30.0	0.0	5672	.235E-04	4704	.210E-04	4705	.225E-04	.227E-04
50	2.4	15.0	0.0	3842	.144E-04	3032	.134E-04	3001	.140E-04	.139E-04
51	2.4	0.0	0.0	5216	.213E-04	4364	.198E-04	4354	.207E-04	.206E-04
52	2.4	-15.0	0.0	4065	.155E-04	4028	.182E-04	4033	.191E-04	.189E-04
53	2.4	-30.0	0.0	4533	.177E-04	3698	.166E-04	3736	.177E-04	.174E-04
54	2.4	-60.0	0.0	3514	.120E-04	2710	.119E-04	2740	.127E-04	.125E-04
55	2.4	-90.0	0.0	2646	.849E-05	1900	.800E-05	1881	.843E-05	.830E-05
56	2.4	-120.0	0.0	2133	.594E-05	1385	.554E-05	1387	.597E-05	.581E-05
57	2.7	90.0	0.0	4461	.175E-04	3635	.163E-04	3537	.167E-04	.168E-04
58	2.7	45.0	0.0	5545	.229E-04	4712	.214E-04	4599	.220E-04	.221E-04
59	2.7	22.5	0.0	5360	.220E-04	4507	.205E-04	4471	.213E-04	.212E-04
60	2.7	0.0	0.0	5117	.208E-04	4270	.193E-04	4232	.201E-04	.201E-04
61	2.7	-22.5	0.0	4671	.186E-04	3844	.173E-04	3840	.182E-04	.180E-04
62	2.7	-45.0	0.0	4026	.153E-04	3220	.144E-04	3222	.151E-04	.149E-04
63	2.7	-90.0	0.0	2722	.807E-05	1979	.838E-05	1961	.803E-05	.869E-05
64	3.0	135.0	0.0	3238	.114E-04	2478	.108E-04	2397	.110E-04	.111E-04
66	3.0	45.0	0.0	5379	.221E-04	4588	.209E-04	4493	.214E-04	.214E-04
67	3.0	22.5	0.0	5247	.214E-04	4418	.200E-04	4343	.207E-04	.207E-04
68	3.0	0.0	0.0	4907	.197E-04	4098	.185E-04	4066	.193E-04	.192E-04
70	3.0	-45.0	0.0	3809	.147E-04	3111	.138E-04	3093	.145E-04	.143E-04
71	3.0	-90.0	0.0	2817	.934E-05	2003	.888E-05	2062	.933E-05	.918E-05
72	3.0	-135.0	0.0	2067	.561E-05	1347	.536E-05	1334	.571E-05	.556E-05
73	3.3	45.0	0.0	5087	.206E-04	4267	.193E-04	4204	.200E-04	.200E-04
74	3.3	22.5	0.0	4992	.202E-04	4184	.189E-04	4084	.194E-04	.195E-04
75	3.3	0.0	0.0	4752	.190E-04	3961	.179E-04	3917	.186E-04	.185E-04
76	3.3	-22.5	0.0	4340	.169E-04	3508	.161E-04	3561	.168E-04	.166E-04
77	3.3	-45.0	0.0	3914	.148E-04	3125	.139E-04	3091	.145E-04	.144E-04
78	3.6	180.0	0.0	2264	.659E-05	1533	.625E-05	1400	.647E-05	.643E-05
79	3.6	135.0	0.0	3365	.121E-04	2615	.114E-04	2536	.117E-04	.117E-04
80	3.6	90.0	0.0	4401	.172E-04	3615	.162E-04	3520	.166E-04	.167E-04
81	3.6	45.0	0.0	4924	.198E-04	4127	.186E-04	4100	.195E-04	.193E-04
82	3.6	22.5	0.0	4909	.197E-04	4108	.186E-04	4030	.192E-04	.191E-04
83	3.6	0.0	0.0	4549	.179E-04	3762	.169E-04	3709	.175E-04	.175E-04
84	3.6	-22.5	0.0	3779	.141E-04	3014	.133E-04	2945	.137E-04	.137E-04
85	3.6	-45.0	0.0	3718	.138E-04	2966	.131E-04	2914	.136E-04	.135E-04
86	3.6	-90.0	0.0	2875	.963E-05	2151	.920E-05	2104	.954E-05	.945E-05
87	3.6	-135.0	0.0	2189	.622E-05	1469	.603E-05	1349	.578E-05	.601E-05
88	3.6	-180.0	0.0	1663	.360E-05	964	.352E-05	921	.365E-05	.359E-05

RUN # 41

GEP TEST NO.3, 11M-16M
100%,IN,BLER07:10,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.89E+03		.45E+03		.35E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
73	3.3	45.0	0.0	5154	.101E-04	4703	.969E-05	4907	.102E-04	.102E-04
74	3.3	22.5	0.0	5035	.986E-05	4647	.958E-05	4962	.102E-04	.100E-04
75	3.3	0.0	0.0	2290	.334E-05	1840	.311E-05	1973	.383E-05	.342E-05
76	3.3	-22.5	0.0	4432	.843E-05	4031	.801E-05	4373	.949E-05	.863E-05
77	3.3	-45.0	0.0	4015	.744E-05	3588	.702E-05	3906	.839E-05	.761E-05
78	3.6	180.0	0.0	3302	.574E-05	2721	.553E-05	2817	.582E-05	.570E-05
79	3.6	135.0	0.0	4263	.803E-05	3866	.764E-05	3784	.810E-05	.792E-05
80	3.6	90.0	0.0	5036	.986E-05	4650	.941E-05	4658	.102E-04	.980E-05
81	3.6	45.0	0.0	5194	.102E-04	4817	.976E-05	4915	.108E-04	.102E-04
82	3.6	22.5	0.0	5082	.997E-05	4693	.949E-05	4898	.107E-04	.101E-04
83	3.6	0.0	0.0	4853	.943E-05	4470	.899E-05	4674	.102E-04	.953E-05
84	3.6	-22.5	0.0	4502	.859E-05	4009	.814E-05	4328	.938E-05	.870E-05
85	3.6	-45.0	0.0	4044	.751E-05	3635	.712E-05	3869	.830E-05	.764E-05
87	3.6	-135.0	0.0	2175	.307E-05	1774	.297E-05	1928	.349E-05	.317E-05
88	3.6	-180.0	0.0	1441	.132E-05	1050	.135E-05	1017	.158E-05	.142E-05
89	3.9	60.0	0.0	5281	.104E-04	4920	.999E-05	4902	.107E-04	.104E-04
90	3.9	30.0	0.0	4222	.793E-05	3823	.754E-05	3869	.830E-05	.792E-05
91	3.9	0.0	0.0	4885	.951E-05	4482	.901E-05	4624	.101E-04	.952E-05
92	3.9	-30.0	0.0	4430	.842E-05	4045	.804E-05	4106	.905E-05	.850E-05
93	3.9	-60.0	0.0	3740	.678E-05	3336	.644E-05	3465	.735E-05	.686E-05
94	4.2	180.0	0.0	3462	.612E-05	3103	.594E-05	2923	.607E-05	.604E-05
95	4.2	120.0	0.0	4682	.902E-05	4311	.863E-05	4157	.898E-05	.887E-05
96	4.2	60.0	0.0	5254	.104E-04	4886	.992E-05	4837	.104E-04	.103E-04
97	4.2	30.0	0.0	5196	.102E-04	4824	.978E-05	4777	.104E-04	.101E-04
98	4.2	0.0	0.0	4924	.960E-05	4573	.922E-05	4577	.997E-05	.959E-05
99	4.2	-30.0	0.0	4421	.840E-05	4037	.802E-05	4106	.886E-05	.842E-05
100	4.2	-60.0	0.0	3012	.696E-05	3435	.660E-05	3503	.744E-05	.702E-05
101	4.2	-120.0	0.0	2651	.420E-05	2275	.409E-05	2265	.452E-05	.427E-05
102	4.2	-180.0	0.0	1650	.182E-05	1287	.180E-05	1229	.200E-05	.193E-05
103	4.5	60.0	0.0	5228	.103E-04	4857	.985E-05	4737	.103E-04	.102E-04
104	4.5	30.0	0.0	5187	.102E-04	4829	.979E-05	4782	.105E-04	.101E-04
105	4.5	0.0	0.0	4842	.940E-05	4479	.901E-05	4433	.963E-05	.934E-05
106	4.5	-30.0	0.0	4433	.843E-05	4047	.804E-05	4040	.875E-05	.840E-05
107	4.5	-60.0	0.0	3820	.697E-05	3466	.675E-05	3457	.733E-05	.701E-05
109	4.8	120.0	0.0	4714	.910E-05	4354	.873E-05	4099	.884E-05	.889E-05
110	4.8	60.0	0.0	5247	.104E-04	4863	.986E-05	4746	.104E-04	.102E-04
111	4.8	30.0	0.0	5218	.103E-04	4838	.981E-05	4734	.103E-04	.101E-04
112	4.8	0.0	0.0	4842	.940E-05	4455	.895E-05	4403	.956E-05	.930E-05
113	4.8	-30.0	0.0	4406	.837E-05	4019	.799E-05	3903	.857E-05	.830E-05
114	4.8	-60.0	0.0	3847	.704E-05	3455	.672E-05	3435	.720E-05	.701E-05
115	4.8	-120.0	0.0	2759	.445E-05	2389	.434E-05	2303	.461E-05	.447E-05

RUN # 42

DEP TEST NO. S1;11M-16M
100%,IN,BLEROS:::18;183

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.71E+03		.17E+03		.15E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
73	3.3	45.0	0.0	5770	.120E-04	5291	.114E-04	4791	.102E-04	.115E-04
74	3.3	22.5	0.0	5647	.117E-04	5187	.112E-04	4741	.100E-04	.113E-04
75	3.3	0.0	0.0	2320	.399E-05	1870	.302E-05	1723	.372E-05	.384E-05
76	3.3	-22.5	0.0	4553	.913E-05	4024	.877E-05	3028	.868E-05	.886E-05
77	3.3	-45.0	0.0	3220	.763E-05	3455	.734E-05	3271	.737E-05	.744E-05
78	3.6	180.0	0.0	2795	.495E-05	2287	.473E-05	2015	.441E-05	.470E-05
79	3.6	135.0	0.0	4034	.770E-05	3502	.745E-05	3090	.694E-05	.743E-05
80	3.6	90.0	0.0	5156	.106E-04	4640	.992E-05	4160	.946E-05	.100E-04
81	3.6	45.0	0.0	5691	.118E-04	5199	.112E-04	4706	.107E-04	.113E-04
82	3.6	22.5	0.0	5557	.115E-04	5081	.110E-04	4668	.107E-04	.110E-04
83	3.6	0.0	0.0	5150	.106E-04	4667	.100E-04	4314	.982E-05	.101E-04
84	3.6	-22.5	0.0	4508	.903E-05	4044	.866E-05	3720	.859E-05	.875E-05
85	3.6	-45.0	0.0	4055	.795E-05	3582	.765E-05	3412	.770E-05	.775E-05
86	3.6	-90.0	0.0	3060	.550E-05	2317	.480E-05	2230	.493E-05	.510E-05
87	3.6	-135.0	0.0	1974	.300E-05	1508	.299E-05	1462	.310E-05	.303E-05
88	3.6	-180.0	0.0	1378	.159E-05	902	.164E-05	865	.170E-05	.164E-05
89	3.9	60.0	0.0	5562	.115E-04	5050	.109E-04	4569	.104E-04	.110E-04
90	3.9	30.0	0.0	4765	.964E-05	4259	.914E-05	3893	.883E-05	.920E-05
91	3.9	0.0	0.0	5044	.103E-04	4571	.983E-05	4232	.963E-05	.992E-05
92	3.9	-30.0	0.0	4420	.882E-05	3958	.846E-05	3689	.835E-05	.854E-05
93	3.9	-60.0	0.0	3655	.700E-05	3190	.675E-05	3039	.682E-05	.685E-05
94	4.2	180.0	0.0	852	.337E-06	358	.426E-06	277	.311E-06	.360E-06
95	4.2	120.0	0.0	4403	.870E-05	3873	.820E-05	3430	.774E-05	.826E-05
96	4.2	60.0	0.0	5424	.112E-04	4913	.106E-04	4395	.100E-04	.106E-04
97	4.2	30.0	0.0	5392	.111E-04	4908	.106E-04	4432	.101E-04	.106E-04
98	4.2	0.0	0.0	5044	.103E-04	4574	.984E-05	4182	.951E-05	.988E-05
99	4.2	-30.0	0.0	4410	.879E-05	3925	.839E-05	3700	.838E-05	.852E-05
100	4.2	-60.0	0.0	3698	.710E-05	3218	.681E-05	3079	.691E-05	.694E-05
101	4.2	-120.0	0.0	2425	.400E-05	1969	.402E-05	1889	.411E-05	.407E-05
102	4.2	-180.0	0.0	1582	.207E-05	1130	.215E-05	1001	.221E-05	.214E-05
103	4.5	60.0	0.0	5305	.109E-04	4773	.103E-04	4290	.979E-05	.103E-04
104	4.5	30.0	0.0	5251	.108E-04	4778	.103E-04	4352	.991E-05	.103E-04
105	4.5	0.0	0.0	4856	.985E-05	4370	.938E-05	4017	.912E-05	.945E-05
106	4.5	-30.0	0.0	4317	.857E-05	3843	.821E-05	3589	.812E-05	.830E-05
107	4.5	-60.0	0.0	3635	.695E-05	3190	.675E-05	3028	.679E-05	.683E-05
109	4.8	120.0	0.0	4453	.889E-05	3923	.839E-05	3523	.796E-05	.841E-05
110	4.8	60.0	0.0	5122	.105E-04	4617	.994E-05	4172	.942E-05	.997E-05
111	4.8	30.0	0.0	5159	.106E-04	4642	.999E-05	4255	.969E-05	.101E-04
112	4.8	0.0	0.0	4787	.969E-05	4305	.924E-05	3974	.902E-05	.931E-05
113	4.8	-30.0	0.0	4230	.836E-05	3702	.803E-05	3520	.797E-05	.812E-05
114	4.8	-60.0	0.0	3662	.701E-05	3177	.672E-05	3042	.693E-05	.685E-05
115	4.8	-120.0	0.0	2590	.447E-05	2119	.436E-05	2029	.444E-05	.442E-05

RUN # 43

GEP TEST NO.3, 10M-15M
100%,IN,BLER09:18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.82E+03		.54E+03		.19E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
64	3.0	135.0	0.0	3572	.655E-05	3340	.625E 05	3010	.666E-05	.648E-05
65	3.0	90.0	0.0	4662	.914E-05	4466	.877E-05	4168	.930E-05	.909E-05
66	3.0	45.0	0.0	2490	.370E-05	2253	.302E-05	1963	.412E-05	.399E-05
67	3.0	22.5	0.0	5426	.110E-04	5222	.105E-04	5173	.110E-04	.110E-04
68	3.0	0.0	0.0	5315	.107E-04	5105	.102E 04	5173	.110E-04	.109E-04
69	3.0	-22.5	0.0	4795	.946E-05	4592	.905E-05	4645	.105E-04	.966E-05
70	3.0	-45.0	0.0	4122	.790E-05	3955	.763E-05	3904	.895E-05	.818E-05
71	3.0	-90.0	0.0	2776	.466E-05	2544	.447E-05	2476	.540E-05	.484E-05
72	3.0	-135.0	0.0	1845	.245E-05	1610	.239E-05	1469	.302E-05	.262E-05
73	3.3	45.0	0.0	5392	.109E-04	5148	.103E-04	4941	.112E-04	.108E-04
74	3.3	22.5	0.0	5384	.109E-04	5143	.103E-04	5014	.114E-04	.108E-04
75	3.3	0.0	0.0	5256	.106E-04	5036	.100E-04	4935	.112E-04	.106E-04
76	3.3	-22.5	0.0	4018	.751E-05	4507	.904E 05	4545	.103E-04	.960E-05
77	3.3	-45.0	0.0	4008	.759E-05	3774	.722E-05	3731	.835E-05	.771E-05
78	3.6	180.0	0.0	2773	.465E-05	2528	.444E-05	2119	.456E-05	.455E-05
79	3.6	135.0	0.0	3941	.743E-05	3682	.702E-05	3253	.723E-05	.722E-05
80	3.6	90.0	0.0	4822	.962E-05	4642	.917E-05	4272	.963E-05	.947E-05
81	3.6	45.0	0.0	4628	.906E-05	4406	.863E-05	4111	.925E-05	.897E-05
82	3.6	22.5	0.0	5301	.107E-04	5159	.103E-04	4932	.112E-04	.108E-04
83	3.6	0.0	0.0	5204	.104E-04	4979	.991E-05	4798	.109E-04	.104E-04
84	3.6	-22.5	0.0	4810	.942E-05	4571	.900E-05	4467	.101E-04	.952E-05
85	3.6	-45.0	0.0	4212	.807E-05	3982	.769E-05	3863	.867E-05	.813E-05
86	3.6	-90.0	0.0	3073	.537E-05	3839	.737E-05	2672	.506E-05	.622E-05
87	3.6	-135.0	0.0	2140	.315E-05	1910	.306E-05	1705	.358E-05	.326E-05
88	3.6	-180.0	0.0	1432	.147E-05	1197	.147E-05	240	.100E-05	.157E-05
89	3.9	60.0	0.0	5139	.103E-04	4904	.974E-05	4516	.102E-04	.101E-04
91	3.9	0.0	0.0	5154	.103E-04	4916	.977E-05	4697	.106E-04	.102E-04
92	3.9	-30.0	0.0	4619	.904E-05	4361	.853E-05	4168	.938E-05	.898E-05
93	3.9	-60.0	0.0	3960	.747E-05	7708	.160E-04	3512	.784E-05	.105E-04
94	4.2	180.0	0.0	3066	.535E-05	2816	.500E-05	2338	.507E-05	.517E-05
95	4.2	120.0	0.0	4348	.840E-05	4106	.796E 05	3611	.807E-05	.814E-05
96	4.2	60.0	0.0	5096	.102E-04	4845	.961E-05	4439	.100E-04	.993E-05
97	4.2	30.0	0.0	5161	.103E-04	4921	.978E-05	4509	.104E-04	.102E-04
98	4.2	0.0	0.0	5022	.100E-04	4799	.951E-05	4491	.101E-04	.988E-05
99	4.2	-30.0	0.0	4474	.869E-05	4233	.825E 05	3945	.886E-05	.859E-05
100	4.2	-60.0	0.0	4024	.763E-05	3781	.724E-05	3530	.788E-05	.757E-05
101	4.2	-120.0	0.0	2714	.451E-05	2470	.431E-05	2242	.485E-05	.455E-05
102	4.2	-180.0	0.0	1679	.205E-05	1455	.204E-05	1181	.234E-05	.215E-05
103	4.5	60.0	0.0	5176	.104E-04	4912	.976E-05	4447	.100E-04	.100E-04
104	4.5	30.0	0.0	5088	.102E-04	4852	.963E-05	4471	.101E-04	.995E-05
105	4.5	0.0	0.0	4929	.978E-05	4677	.924E-05	4332	.977E-05	.959E-05
106	4.5	-30.0	0.0	4501	.895E-05	4304	.840E-05	4036	.907E-05	.880E-05
107	4.5	-60.0	0.0	4042	.767E-05	3752	.717E 05	3460	.772E-05	.751E-05

RUN # 44

GEP TEST NO.S1, 10M-15M
100%,IN,BLER10::18,183

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.90 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.33E+05	
BACKGROUND	.82E+03		.75E+03		.20E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
64	3.0	135.0	0.0	4107	.781E-05	3982	.721E-05	2785	.638E-05	.713E-05
65	3.0	90.0	0.0	5328	.107E-04	5229	.100E-04	4166	.916E-05	.995E-05
66	3.0	45.0	0.0	3322	.594E-05	3259	.540E-05	2457	.513E-05	.556E-05
67	3.0	22.5	0.0	5901	.121E-04	5896	.115E-04	4097	.109E-04	.115E-04
68	3.0	0.0	0.0	5741	.117E-04	5738	.111E-04	4814	.107E-04	.112E-04
69	3.0	-22.5	0.0	5394	.109E-04	5386	.103E-04	4511	.997E-05	.104E-04
70	3.0	-45.0	0.0	4594	.897E-05	4572	.853E-05	3808	.832E-05	.860E-05
71	3.0	-90.0	0.0	3108	.562E-05	3137	.533E-05	2508	.525E-05	.540E-05
72	3.0	-135.0	0.0	1913	.259E-05	1869	.249E-05	1323	.246E-05	.252E-05
73	3.3	45.0	0.0	6060	.124E-04	5995	.117E-04	4220	.109E-04	.117E-04
74	3.3	22.5	0.0	5936	.122E-04	5899	.115E-04	4911	.109E-04	.115E-04
75	3.3	0.0	0.0	5726	.117E-04	5692	.110E-04	4754	.105E-04	.111E-04
76	3.3	-22.5	0.0	1138	.753E-06	1088	.750E-06	0	.000E+00	.505E-06
77	3.3	-45.0	0.0	4619	.903E-05	4562	.851E-05	3821	.835E-05	.862E-05
78	3.6	180.0	0.0	2966	.510E-05	2849	.460E-05	2003	.406E-05	.461E-05
79	3.6	135.0	0.0	4229	.810E-05	4113	.750E-05	3124	.670E-05	.743E-05
80	3.6	90.0	0.0	5437	.110E-04	5325	.102E-04	4241	.934E-05	.102E-04
81	3.6	45.0	0.0	5429	.109E-04	5361	.103E-04	4354	.960E-05	.103E-04
82	3.6	22.5	0.0	5857	.120E-04	5810	.113E-04	4851	.108E-04	.113E-04
83	3.6	0.0	0.0	5698	.116E-04	5653	.109E-04	4739	.105E-04	.110E-04
84	3.6	-22.5	0.0	5219	.105E-04	5175	.988E-05	4328	.954E-05	.995E-05
85	3.6	-45.0	0.0	1204	.910E-06	1159	.709E-06	563	.669E-06	.831E-06
86	3.6	-90.0	0.0	3327	.525E-05	3279	.564E-05	2657	.560E-05	.573E-05
87	3.6	-135.0	0.0	2242	.330E-05	2207	.325E-05	1643	.321E-05	.328E-05
88	3.6	-180.0	0.0	1438	.147E-05	1382	.141E-05	838	.132E-05	.140E-05
89	3.9	60.0	0.0	6022	.124E-04	5814	.113E-04	4767	.106E-04	.114E-04
90	3.9	30.0	0.0	5966	.122E-04	5889	.115E-04	4884	.109E-04	.115E-04
91	3.9	0.0	0.0	5609	.114E-04	5536	.107E-04	4620	.102E-04	.108E-04
92	3.9	-30.0	0.0	5007	.995E-05	4944	.936E-05	4125	.906E-05	.945E-05
93	3.9	-60.0	0.0	4306	.820E-05	4224	.775E-05	3533	.767E-05	.790E-05
94	4.2	180.0	0.0	3173	.559E-05	3050	.513E-05	2171	.451E-05	.507E-05
95	4.2	120.0	0.0	4620	.903E-05	4507	.838E-05	3544	.769E-05	.837E-05
96	4.2	60.0	0.0	5688	.116E-04	5602	.108E-04	4604	.102E-04	.109E-04
97	4.2	30.0	0.0	5806	.120E-04	5787	.112E-04	4801	.107E-04	.113E-04
98	4.2	0.0	0.0	5360	.108E-04	5322	.102E-04	4429	.978E-05	.103E-04
99	4.2	-30.0	0.0	4847	.957E-05	4803	.905E-05	3908	.874E-05	.911E-05
100	4.2	-60.0	0.0	4290	.824E-05	4222	.775E-05	3521	.764E-05	.787E-05
101	4.2	-120.0	0.0	2787	.467E-05	2741	.444E-05	2149	.441E-05	.450E-05
102	4.2	-180.0	0.0	1625	.191E-05	1571	.183E-05	1036	.178E-05	.184E-05
103	4.5	60.0	0.0	5697	.116E-04	5506	.108E-04	4561	.101E-04	.108E-04
104	4.5	30.0	0.0	5582	.113E-04	5517	.104E-04	4585	.101E-04	.107E-04
105	4.5	0.0	0.0	5318	.107E-04	5206	.995E-05	4343	.958E-05	.101E-04
106	4.5	-30.0	0.0	4877	.964E-05	4748	.872E-05	4001	.877E-05	.911E-05
107	4.5	-60.0	0.0	4250	.815E-05	4129	.754E-05	3913	.856E-05	.807E-05

RUN # 45

GEP TEST NO.S2, 10M-15M
100%,IN,BLER11::18,213

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.84E+03		.96E+03		.23E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
64	3.0	135.0	0.0	3057	.500E-05	3248	.486E-05	3008	.621E-05	.535E-05
65	3.0	90.0	0.0	3936	.692E-05	4144	.674E-05	4102	.886E-05	.753E-05
66	3.0	45.0	0.0	1895	.238E-05	2064	.235E-05	1667	.321E-05	.264E-05
67	3.0	22.5	0.0	4226	.764E-05	4403	.731E-05	4724	.101E-04	.832E-05
68	3.0	0.0	0.0	4017	.717E-05	4172	.684E-05	4482	.951E-05	.783E-05
69	3.0	-22.5	0.0	3627	.629E-05	3777	.598E-05	3965	.836E-05	.686E-05
70	3.0	-45.0	0.0	3198	.532E-05	3337	.505E-05	3399	.709E-05	.581E-05
71	3.0	-90.0	0.0	2274	.323E-05	2398	.306E-05	2170	.435E-05	.354E-05
72	3.0	-135.0	0.0	1479	.144E-05	1609	.139E-05	1120	.198E-05	.160E-05
73	3.3	45.0	0.0	4393	.802E-05	4575	.768E-05	4694	.999E-05	.855E-05
74	3.3	22.5	0.0	4324	.786E-05	4480	.748E-05	4695	.999E-05	.843E-05
75	3.3	0.0	0.0	4024	.719E-05	4170	.682E-05	4337	.919E-05	.772E-05
76	3.3	-22.5	0.0	1062	.497E-06	1228	.575E-06	606	.833E-06	.634E-06
77	3.3	-45.0	0.0	3120	.532E-05	3341	.506E-05	3333	.694E-05	.576E-05
78	3.6	180.0	0.0	2420	.356E-05	2588	.346E-05	2089	.415E-05	.372E-05
79	3.6	135.0	0.0	3218	.537E-05	3409	.520E-05	3050	.631E-05	.562E-05
80	3.6	90.0	0.0	4157	.749E-05	4336	.717E-05	4163	.880E-05	.781E-05
81	3.6	45.0	0.0	3638	.631E-05	3806	.605E-05	3627	.776E-05	.670E-05
82	3.6	22.5	0.0	4335	.789E-05	4492	.750E-05	4581	.974E-05	.836E-05
83	3.6	0.0	0.0	4015	.717E-05	4151	.678E-05	4104	.885E-05	.758E-05
84	3.6	-22.5	0.0	3698	.645E-05	3823	.608E-05	3787	.726E-05	.682E-05
85	3.6	-45.0	0.0	977	.305E-06	1142	.393E-06	491	.574E-06	.424E-06
86	3.6	-90.0	0.0	2533	.382E-05	2651	.359E-05	2337	.471E-05	.403E-05
87	3.6	-135.0	0.0	1814	.220E-05	1942	.207E-05	1452	.274E-05	.234E-05
88	3.6	-180.0	0.0	1236	.890E-06	1373	.883E-06	735	.112E-05	.964E-06
89	3.9	60.0	0.0	4368	.796E-05	4527	.758E-05	4415	.936E-05	.829E-05
90	3.9	30.0	0.0	4376	.798E-05	4513	.755E-05	4507	.957E-05	.835E-05
91	3.9	0.0	0.0	4093	.734E-05	4221	.693E-05	4162	.880E-05	.768E-05
92	3.9	-30.0	0.0	3639	.632E-05	3769	.597E-05	3633	.761E-05	.662E-05
93	3.9	-60.0	0.0	3210	.535E-05	3315	.500E-05	3006	.639E-05	.557E-05
94	4.2	180.0	0.0	2673	.414E-05	2840	.400E-05	2270	.456E-05	.423E-05
95	4.2	120.0	0.0	3715	.642E-05	3902	.625E-05	3540	.740E-05	.671E-05
96	4.2	60.0	0.0	4360	.795E-05	4529	.758E-05	4301	.911E-05	.820E-05
97	4.2	30.0	0.0	4362	.795E-05	4490	.750E-05	4353	.923E-05	.821E-05
98	4.2	0.0	0.0	4076	.730E-05	4212	.691E-05	4062	.857E-05	.758E-05
99	4.2	-30.0	0.0	3574	.617E-05	3691	.580E-05	3449	.720E-05	.638E-05
100	4.2	-60.0	0.0	3286	.552E-05	3384	.515E-05	3006	.639E-05	.568E-05
101	4.2	-120.0	0.0	2318	.333E-05	2433	.313E-05	1957	.306E-05	.344E-05
102	4.2	-180.0	0.0	1477	.143E-05	1606	.138E-05	971	.165E-05	.149E-05
103	4.5	60.0	0.0	4323	.786E-05	4480	.748E-05	4157	.879E-05	.803E-05
104	4.5	30.0	0.0	4261	.772E-05	4412	.733E-05	4198	.888E-05	.797E-05
105	4.5	0.0	0.0	4026	.719E-05	4132	.674E-05	3929	.828E-05	.739E-05
106	4.5	-30.0	0.0	3659	.636E-05	3806	.605E-05	3726	.782E-05	.673E-05
107	4.5	-60.0	0.0	3272	.549E-05	3369	.512E-05	3001	.620E-05	.559E-05

RUN # 46

DEP TEST NO.83; 9M-15M
100%,IN,BLER12::18: 100

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.38E+05	
BACKGROUND	.12E+04		.71E+03		.60E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
58	2.7	45.0	0.0	6049	.141E-04	6227	.130E-04	5504	.122E-04	.131E-04
59	2.7	22.5	0.0	5763	.133E-04	6137	.128E-04	5414	.120E-04	.129E-04
60	2.7	0.0	0.0	6242	.125E-04	5661	.117E-04	5071	.111E-04	.118E-04
61	2.7	-22.5	0.0	5512	.107E-04	4962	.100E-04	4454	.957E-05	.101E-04
62	2.7	-45.0	0.0	4731	.874E-05	4215	.826E-05	3857	.809E-05	.836E-05
63	2.7	-90.0	0.0	3561	.581E-05	3030	.547E-05	2815	.550E-05	.559E-05
65	3.0	90.0	0.0	6116	.122E-04	5457	.112E-04	4856	.106E-04	.113E-04
66	3.0	45.0	0.0	4095	.715E-05	3500	.659E-05	3133	.629E-05	.667E-05
67	3.0	22.5	0.0	6706	.137E-04	6104	.127E-04	5420	.121E-04	.128E-04
68	3.0	0.0	0.0	6151	.122E-04	5564	.114E-04	5054	.111E-04	.116E-04
69	3.0	-22.5	0.0	5625	.110E-04	5037	.102E-04	4634	.100E-04	.104E-04
70	3.0	-45.0	0.0	4953	.930E-05	4393	.868E-05	4042	.855E-05	.884E-05
71	3.0	-90.0	0.0	3744	.627E-05	3183	.583E-05	2941	.581E-05	.597E-05
73	3.3	45.0	0.0	6760	.138E-04	6100	.127E-04	5481	.121E-04	.129E-04
74	3.3	22.5	0.0	6517	.132E-04	5903	.122E-04	5351	.118E-04	.124E-04
75	3.3	0.0	0.0	6006	.119E-04	5419	.111E-04	4937	.108E-04	.113E-04
76	3.3	-22.5	0.0	5452	.106E-04	4890	.985E-05	4473	.962E-05	.100E-04
77	3.3	-45.0	0.0	4642	.852E-05	4093	.797E-05	3726	.776E-05	.808E-05
79	3.6	135.0	0.0	5001	.962E-05	4379	.864E-05	3879	.814E-05	.880E-05
80	3.6	90.0	0.0	6160	.123E-04	5503	.113E-04	4911	.107E-04	.114E-04
81	3.6	45.0	0.0	5049	.115E-04	5210	.106E-04	4655	.101E-04	.107E-04
82	3.6	22.5	0.0	6348	.128E-04	5736	.118E-04	5203	.114E-04	.120E-04
83	3.6	0.0	0.0	5926	.117E-04	5314	.108E-04	4881	.106E-04	.111E-04
84	3.6	-22.5	0.0	5454	.106E-04	4876	.982E-05	4462	.959E-05	.998E-05
86	3.6	-90.0	0.0	3877	.660E-05	3346	.621E-05	3100	.621E-05	.634E-05
87	3.6	-135.0	0.0	2644	.351E-05	2127	.334E-05	1955	.336E-05	.340E-05
89	3.9	60.0	0.0	6544	.133E-04	5863	.121E-04	5242	.116E-04	.123E-04
90	3.9	30.0	0.0	6363	.128E-04	5733	.118E-04	5167	.113E-04	.120E-04
91	3.9	0.0	0.0	5857	.116E-04	5258	.107E-04	4814	.105E-04	.109E-04
92	3.9	-30.0	0.0	5177	.986E-05	4503	.913E-05	4212	.897E-05	.931E-05
93	3.9	-60.0	0.0	4503	.817E-05	3917	.756E-05	3626	.752E-05	.774E-05
94	4.2	180.0	0.0	3875	.660E-05	3217	.591E-05	2856	.560E-05	.603E-05
95	4.2	120.0	0.0	5428	.105E-04	4734	.948E-05	4249	.906E-05	.967E-05
96	4.2	60.0	0.0	6362	.128E-04	5667	.117E-04	5108	.112E-04	.119E-04
97	4.2	30.0	0.0	6238	.125E-04	5526	.115E-04	5000	.111E-04	.117E-04
98	4.2	0.0	0.0	5704	.112E-04	5076	.103E-04	4614	.997E-05	.105E-04
99	4.2	-30.0	0.0	5127	.974E-05	4426	.902E-05	4100	.889E-05	.918E-05
100	4.2	-60.0	0.0	4394	.790E-05	3824	.734E-05	3537	.729E-05	.751E-05
101	4.2	-120.0	0.0	3086	.462E-05	2551	.434E-05	2371	.440E-05	.445E-05
102	4.2	-180.0	0.0	2068	.207E-05	1565	.202E-05	1424	.204E-05	.204E-05
103	4.5	60.0	0.0	6161	.123E-04	5466	.112E-04	4895	.107E-04	.114E-04
104	4.5	30.0	0.0	6013	.120E-04	5339	.109E-04	4859	.106E-04	.111E-04
105	4.5	0.0	0.0	5535	.108E-04	4907	.989E-05	4473	.962E-05	.101E-04
106	4.5	-30.0	0.0	4994	.940E-05	4378	.864E-05	4023	.850E-05	.884E-05
107	4.5	-60.0	0.0	4402	.792E-05	3814	.731E-05	3550	.733E-05	.751E-05

RUN # 47

STACK #1 STACK #2 STACK #3

DEP TEST NO.S4; 9M-15M
100%,IN,DLER13;;18,135

	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	17.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.74E+03		.24E+03		.11E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.10E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
58	2.7	45.0	0.0	5533	.120E-04	3765	.830E-05	3416	.823E-05	.948E-05
59	2.7	22.5	0.0	5863	.128E-04	4032	.893E-05	3618	.873E-05	.101E-04
60	2.7	0.0	0.0	5830	.120E-04	4049	.897E-05	3630	.876E-05	.101E-04
61	2.7	-22.5	0.0	5313	.115E-04	3747	.825E-05	3331	.802E-05	.922E-05
62	2.7	-45.0	0.0	4476	.937E-05	3194	.695E-05	2851	.683E-05	.770E-05
63	2.7	-90.0	0.0	2883	.537E-05	1999	.414E-05	1769	.414E-05	.454E-05
65	3.0	90.0	0.0	4584	.964E-05	3142	.683E-05	2850	.684E-05	.775E-05
66	3.0	45.0	0.0	2593	.465E-05	1623	.325E-05	1465	.338E-05	.375E-05
67	3.0	22.5	0.0	5911	.130E-04	4229	.939E-05	3854	.932E-05	.105E-04
68	3.0	0.0	0.0	5881	.129E-04	4208	.934E-05	3800	.919E-05	.104E-04
69	3.0	-22.5	0.0	5284	.114E-04	3850	.850E-05	3468	.836E-05	.939E-05
70	3.0	-45.0	0.0	4590	.965E-05	3382	.739E-05	3026	.726E-05	.808E-05
71	3.0	-90.0	0.0	3134	.600E-05	2264	.476E-05	2010	.474E-05	.516E-05
73	3.3	45.0	0.0	5498	.119E-04	3917	.865E-05	3562	.859E-05	.970E-05
74	3.3	22.5	0.0	5813	.127E-04	4193	.930E-05	3799	.916E-05	.104E-04
75	3.3	0.0	0.0	5720	.125E-04	4177	.927E-05	3779	.913E-05	.103E-04
76	3.3	-22.5	0.0	5237	.113E-04	3907	.863E-05	3518	.849E-05	.944E-05
77	3.3	-45.0	0.0	4412	.921E-05	3313	.723E-05	2984	.711E-05	.783E-05
79	3.6	135.0	0.0	3504	.713E-05	2458	.522E-05	2221	.526E-05	.585E-05
80	3.6	90.0	0.0	4644	.979E-05	3311	.723E-05	3014	.723E-05	.806E-05
81	3.6	45.0	0.0	5070	.109E-04	3650	.803E-05	3307	.796E-05	.892E-05
82	3.6	22.5	0.0	5666	.123E-04	4143	.919E-05	3767	.910E-05	.102E-04
83	3.6	0.0	0.0	5565	.121E-04	4156	.922E-05	3771	.911E-05	.101E-04
84	3.6	-22.5	0.0	5085	.109E-04	3826	.844E-05	3463	.835E-05	.921E-05
85	3.6	-45.0	0.0	1128	.973E-06	530	.676E-06	462	.888E-06	.842E-06
86	3.6	-90.0	0.0	3286	.638E-05	2470	.525E-05	2191	.519E-05	.560E-05
87	3.6	-135.0	0.0	2437	.425E-05	1798	.366E-05	1581	.367E-05	.386E-05
89	3.9	60.0	0.0	5232	.113E-04	3825	.844E-05	3469	.836E-05	.933E-05
90	3.9	30.0	0.0	5684	.124E-04	4216	.936E-05	3814	.922E-05	.103E-04
91	3.9	0.0	0.0	5526	.120E-04	4170	.925E-05	3767	.910E-05	.101E-04
92	3.9	-30.0	0.0	4980	.106E-04	3799	.838E-05	3412	.822E-05	.906E-05
93	3.9	-60.0	0.0	4119	.847E-05	3174	.690E-05	2825	.676E-05	.737E-05
94	4.2	180.0	0.0	2719	.496E-05	1819	.371E-05	1622	.377E-05	.414E-05
95	4.2	120.0	0.0	4009	.819E-05	2880	.621E-05	2599	.620E-05	.685E-05
96	4.2	60.0	0.0	5143	.110E-04	3814	.841E-05	3456	.833E-05	.924E-05
97	4.2	30.0	0.0	5626	.122E-04	4245	.943E-05	3836	.928E-05	.103E-04
98	4.2	0.0	0.0	5460	.118E-04	4157	.922E-05	3739	.903E-05	.100E-04
99	4.2	-30.0	0.0	4794	.102E-04	3671	.807E-05	3325	.801E-05	.873E-05
100	4.2	-60.0	0.0	4068	.834E-05	3150	.685E-05	2836	.679E-05	.731E-05
101	4.2	-120.0	0.0	2909	.544E-05	2254	.474E-05	2000	.471E-05	.496E-05
102	4.2	-180.0	0.0	1982	.313E-05	1447	.284E-05	1256	.286E-05	.294E-05
103	4.5	60.0	0.0	5076	.109E-04	3797	.837E-05	3454	.833E-05	.917E-05
104	4.5	30.0	0.0	5384	.116E-04	4092	.907E-05	3710	.896E-05	.987E-05
105	4.5	0.0	0.0	5217	.112E-04	4022	.890E-05	3629	.876E-05	.961E-05
106	4.5	-30.0	0.0	4693	.991E-05	3628	.797E-05	3272	.787E-05	.857E-05
107	4.5	-60.0	0.0	4083	.838E-05	3219	.701E-05	2922	.700E-05	.745E-05

RUN # 48

DEP TEST NO.S5,10M-14M
100%,IN,BLER14:::1S,285

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.75E+03		.30E+03		.22E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
64	3.0	180.0	0.0	1098	.870E-06	673	.825E-06	641	.879E-06	.884E-06
65	3.0	135.0	0.0	2875	.542E-05	2515	.531E-05	1338	.264E-05	.447E-05
66	3.0	90.0	0.0	4494	.955E-05	4115	.915E-05	3023	.894E-05	.921E-05
67	3.0	45.0	0.0	6276	.141E-04	5861	.133E-04	5506	.132E-04	.135E-04
68	3.0	0.0	0.0	6836	.155E-04	6324	.145E-04	5993	.144E-04	.148E-04
69	3.0	-45.0	0.0	6828	.155E-04	6219	.142E-04	5861	.141E-04	.146E-04
70	3.0	-90.0	0.0	5489	.121E-04	4888	.110E-04	4721	.112E-04	.114E-04
71	3.0	-135.0	0.0	3587	.723E-05	3020	.653E-05	2934	.669E-05	.681E-05
72	3.0	-180.0	0.0	1854	.281E-05	1363	.255E-05	1336	.264E-05	.266E-05
73	3.3	180.0	0.0	1894	.291E-05	1497	.287E-05	1372	.273E-05	.284E-05
74	3.3	135.0	0.0	2948	.560E-05	2587	.542E-05	2322	.531E-05	.547E-05
75	3.3	90.0	0.0	4571	.975E-05	4187	.933E-05	3897	.912E-05	.940E-05
76	3.3	45.0	0.0	6042	.135E-04	5603	.127E-04	5274	.126E-04	.129E-04
77	3.3	0.0	0.0	6899	.157E-04	6366	.146E-04	6038	.145E-04	.149E-04
78	3.3	-45.0	0.0	6664	.151E-04	6062	.138E-04	5795	.139E-04	.143E-04
79	3.3	-90.0	0.0	5572	.123E-04	4957	.112E-04	4782	.114E-04	.116E-04
80	3.3	-135.0	0.0	3750	.765E-05	3179	.691E-05	3072	.705E-05	.720E-05
81	3.3	-180.0	0.0	2062	.334E-05	1558	.302E-05	1505	.307E-05	.314E-05
82	3.6	180.0	0.0	2184	.365E-05	1816	.364E-05	1675	.350E-05	.360E-05
83	3.6	135.0	0.0	3213	.628E-05	2750	.588E-05	2611	.587E-05	.600E-05
84	3.6	90.0	0.0	4820	.104E-04	4436	.992E-05	4122	.969E-05	.100E-04
85	3.6	45.0	0.0	6181	.139E-04	5715	.130E-04	5378	.129E-04	.132E-04
86	3.6	0.0	0.0	6779	.154E-04	6250	.143E-04	5926	.143E-04	.146E-04
87	3.6	-45.0	0.0	6365	.143E-04	5792	.132E-04	5531	.133E-04	.136E-04
88	3.6	-90.0	0.0	5554	.123E-04	4958	.112E-04	4741	.113E-04	.116E-04
89	3.6	-135.0	0.0	3899	.803E-05	3325	.726E-05	3210	.738E-05	.755E-05
90	3.6	-180.0	0.0	2203	.370E-05	1706	.337E-05	1651	.344E-05	.350E-05
91	3.9	180.0	0.0	2123	.350E-05	1733	.344E-05	1587	.327E-05	.340E-05
92	3.9	135.0	0.0	3223	.630E-05	2851	.612E-05	2645	.595E-05	.613E-05
93	3.9	90.0	0.0	4863	.105E-04	4471	.100E-04	4150	.976E-05	.101E-04
94	3.9	45.0	0.0	5896	.131E-04	5428	.123E-04	5095	.122E-04	.125E-04
95	3.9	0.0	0.0	6553	.148E-04	6040	.138E-04	5702	.137E-04	.141E-04
96	3.9	-45.0	0.0	6454	.146E-04	5851	.133E-04	5575	.134E-04	.137E-04
97	3.9	-90.0	0.0	5498	.121E-04	4863	.109E-04	4532	.107E-04	.113E-04
98	3.9	-135.0	0.0	3001	.770E-05	3232	.703E-05	3145	.722E-05	.734E-05
99	3.9	-180.0	0.0	2365	.411E-05	1848	.371E-05	1804	.382E-05	.388E-05
100	4.2	180.0	0.0	2346	.406E-05	1961	.392E-05	1816	.385E-05	.397E-05
101	4.2	135.0	0.0	3335	.659E-05	2934	.632E-05	2726	.616E-05	.635E-05
102	4.2	90.0	0.0	4691	.101E-04	4281	.955E-05	3962	.929E-05	.963E-05
103	4.2	45.0	0.0	5736	.127E-04	5254	.119E-04	4937	.118E-04	.121E-04
104	4.2	0.0	0.0	6303	.142E-04	5791	.132E-04	5467	.131E-04	.135E-04
105	4.2	-45.0	0.0	6406	.144E-04	5818	.132E-04	5506	.132E-04	.136E-04
106	4.2	-90.0	0.0	5399	.119E-04	4809	.108E-04	4594	.109E-04	.112E-04
107	4.2	-135.0	0.0	3339	.660E-05	3264	.711E-05	3137	.720E-05	.697E-05

RUN # 49

DEP TEST NO.S6;10M-14M
100%,IN,DLER15::18,300

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.73E+03		.26E+03		.23E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
64	3.0	180.0	0.0	1572	.215E-05	1110	.203E-05	1045	.206E-05	.208E-05
65	3.0	135.0	0.0	2593	.476E-05	2136	.449E-05	2002	.449E-05	.458E-05
66	3.0	90.0	0.0	4026	.842E-05	3528	.783E-05	3298	.777E-05	.800E-05
67	3.0	45.0	0.0	5386	.119E-04	4750	.108E-04	4455	.107E-04	.111E-04
68	3.0	0.0	0.0	3239	.641E-05	2583	.557E-05	2466	.566E-05	.587E-05
69	3.0	-45.0	0.0	5960	.134E-04	4930	.112E-04	4696	.113E-04	.119E-04
70	3.0	-90.0	0.0	4720	.102E-04	3726	.831E-05	3595	.852E-05	.899E-05
71	3.0	-135.0	0.0	3321	.662E-05	2458	.527E-05	2404	.551E-05	.578E-05
72	3.0	-180.0	0.0	1895	.290E-05	1217	.229E-05	1194	.244E-05	.256E-05
73	3.3	180.0	0.0	1625	.229E-05	1159	.215E-05	1077	.214E-05	.219E-05
74	3.3	135.0	0.0	2636	.487E-05	2186	.461E-05	2033	.457E-05	.468E-05
75	3.3	90.0	0.0	3911	.812E-05	3437	.762E-05	3202	.752E-05	.775E-05
76	3.3	45.0	0.0	5307	.117E-04	4694	.106E-04	4359	.105E-04	.109E-04
77	3.3	0.0	0.0	6276	.142E-04	5429	.124E-04	5103	.123E-04	.130E-04
78	3.3	-45.0	0.0	4718	.102E-04	3866	.864E-05	3692	.877E-05	.919E-05
79	3.3	-90.0	0.0	4850	.105E-04	3871	.866E-05	3725	.885E-05	.933E-05
80	3.3	-135.0	0.0	3545	.719E-05	2686	.581E-05	2600	.600E-05	.632E-05
81	3.3	-180.0	0.0	2084	.346E-05	1402	.273E-05	1366	.288E-05	.302E-05
82	3.6	180.0	0.0	1819	.278E-05	1386	.269E-05	1280	.266E-05	.271E-05
83	3.6	135.0	0.0	2849	.541E-05	2274	.482E-05	2152	.487E-05	.503E-05
84	3.6	90.0	0.0	4058	.850E-05	3593	.799E-05	3338	.787E-05	.812E-05
85	3.6	45.0	0.0	5273	.116E-04	4681	.106E-04	4373	.105E-04	.109E-04
86	3.6	0.0	0.0	6192	.139E-04	5396	.123E-04	5073	.123E-04	.128E-04
87	3.6	-45.0	0.0	5452	.121E-04	4601	.104E-04	4364	.105E-04	.110E-04
88	3.6	-90.0	0.0	4700	.107E-04	3972	.890E-05	3777	.899E-05	.950E-05
89	3.6	-135.0	0.0	3656	.747E-05	2818	.613E-05	2715	.629E-05	.662E-05
90	3.6	-180.0	0.0	2361	.417E-05	1665	.336E-05	1614	.350E-05	.367E-05
91	3.9	180.0	0.0	1776	.267E-05	1328	.256E-05	1247	.258E-05	.260E-05
92	3.9	135.0	0.0	2918	.559E-05	2478	.531E-05	2298	.524E-05	.538E-05
93	3.9	90.0	0.0	4108	.863E-05	3643	.811E-05	3393	.801E-05	.825E-05
94	3.9	45.0	0.0	5215	.115E-04	4636	.105E-04	4292	.103E-04	.107E-04
95	3.9	0.0	0.0	5997	.135E-04	5237	.119E-04	4908	.118E-04	.124E-04
96	3.9	-45.0	0.0	5849	.131E-04	4955	.113E-04	4692	.113E-04	.119E-04
97	3.9	-90.0	0.0	4844	.105E-04	3942	.883E-05	3768	.896E-05	.942E-05
98	3.9	-135.0	0.0	3752	.772E-05	2913	.636E-05	2797	.650E-05	.685E-05
99	3.9	-180.0	0.0	2513	.456E-05	1806	.370E-05	1740	.382E-05	.402E-05
100	4.2	180.0	0.0	2170	.360E-05	1740	.354E-05	1619	.352E-05	.358E-05
101	4.2	135.0	0.0	3048	.592E-05	2583	.557E-05	2395	.548E-05	.565E-05
102	4.2	90.0	0.0	4060	.851E-05	3569	.793E-05	3307	.779E-05	.807E-05
103	4.2	45.0	0.0	5099	.112E-04	4514	.102E-04	4207	.101E-04	.105E-04
104	4.2	0.0	0.0	5866	.131E-04	5120	.117E-04	4791	.115E-04	.121E-04
105	4.2	-45.0	0.0	5560	.123E-04	4740	.108E-04	4503	.108E-04	.113E-04
106	4.2	-90.0	0.0	4836	.105E-04	3964	.888E-05	3769	.896E-05	.943E-05
107	4.2	-135.0	0.0	3795	.783E-05	2992	.655E-05	2929	.683E-05	.706E-05

RUN # 50

GEP TEST NO.S7;10M-14M
100%,IN,BLER16;19;215

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	17.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.77E+03		.30E+03		.24E+03	
CALIBRATION FACTOR	.46E-02		.24E-02		.17E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
64	3.0	180.0	0.0	1760	.254E-05	1222	.224E-05	1177	.232E-05	.236E-05
65	3.0	135.0	0.0	2809	.521E-05	2125	.455E-05	2092	.464E-05	.480E-05
66	3.0	90.0	0.0	3905	.001E-05	3124	.678E-05	3008	.696E-05	.724E-05
67	3.0	45.0	0.0	5743	.127E-04	4156	.926E-05	4017	.951E-05	.105E-04
68	3.0	0.0	0.0	3003	.591E-05	2161	.447E-05	2093	.464E-05	.500E-05
69	3.0	-45.0	0.0	5958	.133E-04	4363	.976E-05	4198	.997E-05	.110E-04
70	3.0	-90.0	0.0	4027	.104E-04	3417	.749E-05	3316	.774E-05	.851E-05
71	3.0	-135.0	0.0	3563	.714E-05	2422	.510E-05	2352	.530E-05	.583E-05
72	3.0	-180.0	0.0	2318	.396E-05	1412	.260E-05	1377	.283E-05	.314E-05
73	3.3	180.0	0.0	1876	.283E-05	1346	.252E-05	1274	.257E-05	.264E-05
74	3.3	135.0	0.0	2855	.533E-05	2266	.472E-05	2159	.481E-05	.485E-05
75	3.3	90.0	0.0	3936	.809E-05	3171	.690E-05	3037	.703E-05	.733E-05
76	3.3	45.0	0.0	5384	.110E-04	4220	.941E-05	4034	.956E-05	.102E-04
77	3.3	0.0	0.0	6268	.140E-04	4822	.109E-04	4602	.110E-04	.119E-04
78	3.3	-45.0	0.0	5841	.130E-04	4390	.982E-05	4201	.998E-05	.109E-04
79	3.3	-90.0	0.0	843	.124E-06	329	.760E-07	328	.172E-06	.146E-06
80	3.3	-135.0	0.0	3740	.757E-05	2616	.556E-05	2519	.572E-05	.627E-05
81	3.3	-180.0	0.0	2458	.432E-05	1551	.301E-05	1506	.316E-05	.348E-05
82	3.6	180.0	0.0	2138	.350E-05	1633	.321E-05	1546	.326E-05	.332E-05
83	3.6	135.0	0.0	3029	.578E-05	2221	.462E-05	2119	.471E-05	.502E-05
84	3.6	90.0	0.0	4108	.853E-05	3370	.739E-05	3207	.746E-05	.779E-05
85	3.6	45.0	0.0	5469	.120E-04	4378	.979E-05	4126	.979E-05	.105E-04
86	3.6	0.0	0.0	6075	.134E-04	4772	.107E-04	4526	.108E-04	.117E-04
87	3.6	-45.0	0.0	1043	.705E-06	515	.523E-06	504	.618E-06	.613E-06
88	3.6	-90.0	0.0	4030	.104E-04	3595	.791E-05	3467	.812E-05	.878E-05
89	3.6	-135.0	0.0	3858	.789E-05	2771	.594E-05	2637	.602E-05	.660E-05
90	3.6	-180.0	0.0	2736	.503E-05	1813	.364E-05	1738	.374E-05	.412E-05
91	3.9	180.0	0.0	2037	.324E-05	1495	.287E-05	1399	.288E-05	.300E-05
92	3.9	90.0	0.0	4155	.865E-05	3441	.754E-05	3271	.762E-05	.793E-05
94	3.9	45.0	0.0	5400	.118E-04	4393	.983E-05	4154	.986E-05	.105E-04
95	3.9	0.0	0.0	5947	.132E-04	4741	.107E-04	4463	.106E-04	.115E-04
96	3.9	-45.0	0.0	5705	.126E-04	4417	.989E-05	4162	.988E-05	.108E-04
97	3.9	-90.0	0.0	4028	.104E-04	3651	.005E-05	3481	.816E-05	.884E-05
98	3.9	-135.0	0.0	3862	.790E-05	2942	.611E-05	2691	.616E-05	.671E-05
99	3.9	-180.0	0.0	2846	.531E-05	1945	.395E-05	1844	.401E-05	.441E-05
100	4.2	180.0	0.0	2422	.423E-05	1919	.389E-05	1801	.390E-05	.400E-05
101	4.2	135.0	0.0	3235	.630E-05	2693	.575E-05	2527	.574E-05	.593E-05
102	4.2	90.0	0.0	4112	.854E-05	3437	.753E-05	3223	.750E-05	.785E-05
103	4.2	45.0	0.0	5331	.117E-04	4369	.977E-05	4117	.977E-05	.104E-04
104	4.2	0.0	0.0	5768	.128E-04	4680	.105E-04	4410	.105E-04	.112E-04
105	4.2	-45.0	0.0	5503	.123E-04	4411	.987E-05	4109	.995E-05	.107E-04
106	4.2	-90.0	0.0	4803	.103E-04	3701	.817E-05	3516	.825E-05	.889E-05
107	4.2	-135.0	0.0	3964	.816E-05	2946	.636E-05	2820	.648E-05	.699E-05
108	4.2	-180.0	0.0	3016	.574E-05	2140	.442E-05	2041	.451E-05	.488E-05

RUN # 51

GEP TEST NO. SO;10M-14M
100%,IN;PLER17::19,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	17.98 M/S	2.36 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.82E+02		.81E+02		.25E+02	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
64	3.0	180.0	0.0	2221	.344E-05	1077	.362E-05	1604	.329E-05	.345E-05
65	3.0	135.0	0.0	3505	.659E-05	3360	.704E-05	2835	.628E-05	.664E-05
66	3.0	90.0	0.0	5423	.115E-04	5639	.123E-04	4768	.110E-04	.116E-04
67	3.0	45.0	0.0	6921	.150E-04	7209	.159E-04	6209	.145E-04	.151E-04
68	3.0	0.0	0.0	4385	.874E-05	4305	.921E-05	3761	.854E-05	.884E-05
69	3.0	-45.0	0.0	6171	.131E-04	6370	.140E-04	5538	.129E-04	.133E-04
70	3.0	-90.0	0.0	4501	.903E-05	4435	.951E-05	3933	.895E-05	.917E-05
71	3.0	-135.0	0.0	2596	.436E-05	2275	.454E-05	2039	.435E-05	.442E-05
72	3.0	-180.0	0.0	1455	.157E-05	1026	.166E-05	911	.160E-05	.161E-05
73	3.3	180.0	0.0	2295	.362E-05	1943	.377E-05	1658	.342E-05	.361E-05
74	3.3	135.0	0.0	3469	.650E-05	3296	.689E-05	2817	.624E-05	.655E-05
75	3.3	90.0	0.0	5371	.112E-04	5425	.119E-04	4637	.107E-04	.112E-04
76	3.3	45.0	0.0	6744	.145E-04	6907	.152E-04	5957	.139E-04	.145E-04
77	3.3	0.0	0.0	6930	.150E-04	7056	.156E-04	6160	.144E-04	.150E-04
78	3.3	-45.0	0.0	6212	.132E-04	6286	.138E-04	5535	.129E-04	.133E-04
79	3.3	-90.0	0.0	4475	.896E-05	4354	.933E-05	3832	.871E-05	.901E-05
80	3.3	-135.0	0.0	2730	.469E-05	2400	.482E-05	2166	.466E-05	.473E-05
81	3.3	-180.0	0.0	1572	.185E-05	1125	.189E-05	1020	.187E-05	.187E-05
82	3.6	180.0	0.0	2621	.442E-05	2290	.459E-05	2000	.425E-05	.442E-05
83	3.6	135.0	0.0	3263	.600E-05	3020	.625E-05	2662	.536E-05	.604E-05
84	3.6	90.0	0.0	5464	.114E-04	5463	.119E-04	4722	.109E-04	.114E-04
85	3.6	45.0	0.0	6667	.143E-04	6734	.148E-04	5869	.137E-04	.143E-04
86	3.6	0.0	0.0	6833	.147E-04	6881	.152E-04	6034	.141E-04	.147E-04
87	3.6	-45.0	0.0	6010	.127E-04	5998	.131E-04	5275	.122E-04	.127E-04
88	3.6	-90.0	0.0	4382	.874E-05	4104	.894E-05	3740	.840E-05	.872E-05
89	3.6	-135.0	0.0	2811	.489E-05	2461	.496E-05	2226	.480E-05	.489E-05
90	3.6	-180.0	0.0	1710	.219E-05	1281	.224E-05	1175	.225E-05	.223E-05
91	3.9	180.0	0.0	2474	.406E-05	2125	.419E-05	1820	.391E-05	.403E-05
92	3.9	135.0	0.0	3808	.733E-05	3597	.758E-05	3112	.696E-05	.730E-05
93	3.9	90.0	0.0	5530	.115E-04	5431	.118E-04	4722	.109E-04	.114E-04
94	3.9	45.0	0.0	6418	.137E-04	6421	.141E-04	5581	.130E-04	.136E-04
95	3.9	0.0	0.0	6483	.139E-04	6473	.142E-04	5672	.132E-04	.138E-04
96	3.9	-45.0	0.0	5909	.125E-04	5726	.127E-04	5136	.119E-04	.123E-04
97	3.9	-90.0	0.0	4278	.848E-05	4028	.858E-05	3608	.816E-05	.841E-05
98	3.9	-135.0	0.0	2833	.494E-05	2440	.492E-05	2217	.478E-05	.488E-05
99	3.9	-180.0	0.0	1793	.240E-05	1324	.234E-05	1199	.230E-05	.235E-05
100	4.2	180.0	0.0	2911	.513E-05	2571	.522E-05	2236	.483E-05	.506E-05
101	4.2	135.0	0.0	3959	.770E-05	3691	.780E-05	3208	.719E-05	.757E-05
102	4.2	90.0	0.0	5202	.107E-04	5016	.109E-04	4380	.100E-04	.106E-04
103	4.2	45.0	0.0	6146	.131E-04	6047	.132E-04	5280	.122E-04	.128E-04
104	4.2	0.0	0.0	6278	.134E-04	6191	.136E-04	5498	.126E-04	.132E-04
105	4.2	-45.0	0.0	5754	.121E-04	5596	.122E-04	4975	.115E-04	.119E-04
106	4.2	-90.0	0.0	4098	.804E-05	3836	.813E-05	3478	.785E-05	.801E-05
107	4.2	-135.0	0.0	2831	.494E-05	2428	.489E-05	2219	.478E-05	.487E-05

RUN # 52

DEP TEST NO. 89:7M-14M
100%,IN,BLER18::18,255

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.60E+03		.13E+03		.12E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
37	2.1	60.0	0.0	5464	.119E-04	6415	.145E-04	4552	.108E-04	.124E-04
38	2.1	30.0	0.0	6081	.134E-04	7120	.161E-04	5137	.122E-04	.139E-04
39	2.1	0.0	0.0	6172	.136E-04	7047	.159E-04	5256	.125E-04	.141E-04
40	2.1	-30.0	0.0	5548	.121E-04	6171	.139E-04	4711	.112E-04	.124E-04
41	2.1	-60.0	0.0	2414	.444E-05	2376	.517E-05	1827	.415E-05	.460E-05
46	2.4	60.0	0.0	5866	.129E-04	6643	.150E-04	4939	.117E-04	.132E-04
47	2.4	30.0	0.0	6441	.143E-04	7299	.165E-04	5500	.131E-04	.147E-04
48	2.4	0.0	0.0	6408	.142E-04	7094	.160E-04	5440	.129E-04	.144E-04
49	2.4	-30.0	0.0	5682	.124E-04	6141	.138E-04	4776	.113E-04	.126E-04
50	2.4	-60.0	0.0	4858	.104E-04	5117	.115E-04	4054	.956E-05	.105E-04
56	2.7	60.0	0.0	5987	.132E-04	6619	.149E-04	5038	.120E-04	.134E-04
57	2.7	30.0	0.0	6595	.147E-04	7280	.165E-04	5575	.133E-04	.148E-04
58	2.7	0.0	0.0	6405	.142E-04	6963	.157E-04	5443	.129E-04	.143E-04
59	2.7	-30.0	0.0	5818	.128E-04	6184	.139E-04	4917	.117E-04	.128E-04
60	2.7	-60.0	0.0	4820	.105E-04	5069	.114E-04	4061	.950E-05	.105E-04
66	3.0	90.0	0.0	5023	.108E-04	5345	.120E-04	4157	.981E-05	.109E-04
67	3.0	45.0	0.0	6241	.138E-04	6737	.152E-04	5275	.125E-04	.139E-04
68	3.0	0.0	0.0	6314	.140E-04	6712	.152E-04	5337	.127E-04	.140E-04
69	3.0	-45.0	0.0	4487	.952E-05	4540	.102E-04	3700	.870E-05	.948E-05
70	3.0	-90.0	0.0	3917	.812E-05	3878	.863E-05	3193	.747E-05	.808E-05
75	3.3	90.0	0.0	5063	.109E-04	5275	.118E-04	4212	.995E-05	.109E-04
76	3.3	45.0	0.0	6231	.138E-04	6588	.149E-04	5259	.125E-04	.137E-04
77	3.3	0.0	0.0	6213	.137E-04	6439	.145E-04	5231	.124E-04	.136E-04
78	3.3	-45.0	0.0	5589	.122E-04	5655	.127E-04	4668	.111E-04	.120E-04
79	3.3	-90.0	0.0	3933	.816E-05	3835	.853E-05	3168	.741E-05	.804E-05
84	3.6	90.0	0.0	5120	.111E-04	5246	.118E-04	4236	.100E-04	.110E-04
86	3.6	0.0	0.0	6168	.136E-04	6284	.142E-04	5183	.123E-04	.134E-04
87	3.6	-45.0	0.0	5491	.120E-04	5512	.124E-04	4592	.109E-04	.118E-04
88	3.6	-90.0	0.0	4095	.856E-05	3979	.886E-05	3347	.784E-05	.843E-05
93	3.9	90.0	0.0	5133	.111E-04	5198	.117E-04	4242	.100E-04	.109E-04
94	3.9	45.0	0.0	6059	.134E-04	6190	.140E-04	5067	.120E-04	.131E-04
95	3.9	0.0	0.0	6018	.133E-04	6009	.137E-04	5106	.121E-04	.130E-04
96	3.9	-45.0	0.0	5221	.113E-04	5189	.116E-04	4366	.103E-04	.111E-04
97	3.9	-90.0	0.0	4000	.852E-05	3927	.874E-05	3315	.777E-05	.835E-05

RUN # 53

GEP TEST NO. S10;7M-14M
100%;IN;BLER191:18;90

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.65E+03		.20E+03		.17E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
37	2.1	60.0	0.0	5487	.118E-04	5890	.131E-04	4531	.105E-04	.119E-04
38	2.1	30.0	0.0	5888	.128E-04	6522	.146E-04	4905	.115E-04	.130E-04
39	2.1	0.0	0.0	5782	.126E-04	6499	.145E-04	4846	.113E-04	.128E-04
40	2.1	-30.0	0.0	5193	.111E-04	5956	.133E-04	4356	.101E-04	.115E-04
41	2.1	-60.0	0.0	2145	.366E-05	2176	.455E-05	1589	.339E-05	.388E-05
46	2.4	60.0	0.0	5869	.128E-04	6247	.139E-04	4859	.113E-04	.127E-04
47	2.4	30.0	0.0	6211	.136E-04	6720	.150E-04	5188	.121E-04	.136E-04
48	2.4	0.0	0.0	6170	.135E-04	6734	.150E-04	5211	.122E-04	.136E-04
49	2.4	-30.0	0.0	5448	.118E-04	6031	.134E-04	4580	.107E-04	.120E-04
50	2.4	-60.0	0.0	4320	.899E-05	4792	.106E-04	3559	.818E-05	.927E-05
56	2.7	60.0	0.0	6022	.132E-04	6268	.140E-04	4988	.117E-04	.129E-04
57	2.7	30.0	0.0	6473	.143E-04	6849	.153E-04	5437	.127E-04	.141E-04
58	2.7	0.0	0.0	6283	.138E-04	6747	.151E-04	5303	.124E-04	.138E-04
59	2.7	-30.0	0.0	5648	.122E-04	6052	.135E-04	4765	.111E-04	.123E-04
66	3.0	90.0	0.0	5527	.119E-04	5566	.124E-04	4528	.105E-04	.116E-04
67	3.0	45.0	0.0	6460	.142E-04	6682	.149E-04	5428	.127E-04	.140E-04
68	3.0	0.0	0.0	6470	.143E-04	6736	.150E-04	5482	.129E-04	.141E-04
69	3.0	-45.0	0.0	4215	.873E-05	4315	.947E-05	3463	.795E-05	.873E-05
70	3.0	-90.0	0.0	3873	.789E-05	4053	.887E-05	3192	.729E-05	.803E-05
75	3.3	90.0	0.0	5635	.122E-04	5630	.125E-04	4655	.108E-04	.119E-04
76	3.3	45.0	0.0	6493	.143E-04	6641	.148E-04	5445	.128E-04	.140E-04
77	3.3	0.0	0.0	6383	.140E-04	6532	.146E-04	5387	.126E-04	.138E-04
78	3.3	-45.0	0.0	5479	.118E-04	5659	.126E-04	4632	.108E-04	.117E-04
79	3.3	-90.0	0.0	3999	.820E-05	4094	.896E-05	3277	.750E-05	.823E-05
84	3.6	90.0	0.0	5670	.123E-04	5616	.125E-04	4701	.110E-04	.119E-04
86	3.6	0.0	0.0	6263	.138E-04	6328	.141E-04	5292	.124E-04	.134E-04
87	3.6	-45.0	0.0	5526	.119E-04	5613	.125E-04	4634	.108E-04	.117E-04
88	3.6	-90.0	0.0	4203	.870E-05	4227	.927E-05	3466	.795E-05	.865E-05

RUN # 54

GEP TEST NO, S11,7M-14M
100%,IN,BLER20::18,70

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.75E+03		.30E+03		.20E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
37	2.1	60.0	0.0	4485	.914E-05	4049	.863E-05	3472	.777E-05	.851E-05
38	2.1	30.0	0.0	5257	.110E-04	4909	.106E-04	4121	.934E-05	.103E-04
39	2.1	0.0	0.0	5420	.114E-04	5253	.114E-04	4203	.954E-05	.108E-04
40	2.1	-30.0	0.0	5114	.107E-04	5017	.109E-04	3947	.892E-05	.102E-04
41	2.1	-60.0	0.0	2350	.391E-05	2067	.406E-05	1641	.332E-05	.377E-05
46	2.4	60.0	0.0	4752	.980E-05	4347	.932E-05	3726	.838E-05	.917E-05
47	2.4	30.0	0.0	5619	.119E-04	5292	.115E-04	4454	.102E-04	.112E-04
48	2.4	0.0	0.0	5713	.122E-04	5531	.120E-04	4505	.103E-04	.115E-04
49	2.4	-30.0	0.0	5340	.112E-04	5224	.113E-04	4171	.951E-05	.107E-04
50	2.4	-60.0	0.0	4496	.917E-05	4369	.937E-05	3464	.775E-05	.877E-05
56	2.7	60.0	0.0	4937	.103E-04	4552	.979E-05	3992	.903E-05	.969E-05
57	2.7	30.0	0.0	5618	.119E-04	5287	.115E-04	4485	.102E-04	.112E-04
58	2.7	0.0	0.0	5824	.124E-04	5624	.123E-04	4659	.107E-04	.118E-04
59	2.7	-30.0	0.0	5338	.112E-04	5183	.112E-04	4212	.956E-05	.107E-04
60	2.7	-60.0	0.0	4669	.952E-05	4487	.964E-05	3628	.814E-05	.913E-05
66	3.0	90.0	0.0	4147	.832E-05	3695	.781E-05	3242	.721E-05	.778E-05
67	3.0	45.0	0.0	5336	.112E-04	4967	.107E-04	4279	.973E-05	.106E-04
68	3.0	0.0	0.0	5731	.122E-04	5486	.119E-04	4579	.105E-04	.115E-04
69	3.0	-45.0	0.0	4428	.900E-05	4181	.893E-05	3439	.769E-05	.855E-05
70	3.0	-90.0	0.0	4054	.809E-05	3833	.813E-05	3126	.692E-05	.772E-05
75	3.3	90.0	0.0	4177	.839E-05	3727	.789E-05	3284	.731E-05	.786E-05
76	3.3	45.0	0.0	5358	.113E-04	4980	.108E-04	4298	.977E-05	.106E-04
77	3.3	0.0	0.0	5756	.123E-04	5459	.119E-04	4614	.105E-04	.116E-04
78	3.3	-45.0	0.0	5086	.106E-04	4861	.105E-04	4032	.913E-05	.101E-04
79	3.3	-90.0	0.0	4071	.810E-05	3865	.821E-05	3064	.677E-05	.773E-05
84	3.6	90.0	0.0	4176	.839E-05	3719	.787E-05	3281	.730E-05	.785E-05
86	3.6	0.0	0.0	5666	.120E-04	5371	.117E-04	4570	.104E-04	.114E-04
87	3.6	-45.0	0.0	5113	.107E-04	4884	.106E-04	4095	.928E-05	.102E-04
88	3.6	-90.0	0.0	4118	.824E-05	3906	.830E-05	3212	.713E-05	.790E-05
94	3.9	45.0	0.0	5301	.111E-04	4906	.106E-04	4284	.974E-05	.105E-04
95	3.9	0.0	0.0	5573	.118E-04	5242	.114E-04	4505	.103E-04	.112E-04
96	3.9	-45.0	0.0	4984	.104E-04	4760	.103E-04	4022	.910E-05	.992E-05

RUN # 55

GEP TEST NO. S12,7M-14M
100%,IN,BLER21::18,110

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.71E+03		.10E+03		.23E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.14E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
37	2.1	60.0	0.0	5984	.125E-04	5349	.116E-04	4811	.108E-04	.116E-04
38	2.1	30.0	0.0	6279	.132E-04	5712	.124E-04	5094	.115E-04	.124E-04
39	2.1	0.0	0.0	6034	.127E-04	5544	.120E-04	4852	.109E-04	.118E-04
40	2.1	-30.0	0.0	5659	.118E-04	5193	.112E-04	4533	.102E-04	.110E-04
41	2.1	-60.0	0.0	2556	.439E-05	2058	.419E-05	1767	.363E-05	.407E-05
46	2.4	60.0	0.0	6531	.138E-04	5919	.128E-04	5346	.121E-04	.129E-04
47	2.4	30.0	0.0	6751	.144E-04	6204	.135E-04	5531	.125E-04	.134E-04
48	2.4	0.0	0.0	6674	.142E-04	6171	.134E-04	5452	.123E-04	.133E-04
49	2.4	-30.0	0.0	6215	.131E-04	5735	.124E-04	5031	.113E-04	.123E-04
50	2.4	-60.0	0.0	5304	.109E-04	4838	.104E-04	4221	.942E-05	.102E-04
56	2.7	60.0	0.0	6621	.140E-04	5985	.130E-04	5452	.123E-04	.131E-04
57	2.7	30.0	0.0	6972	.149E-04	6405	.139E-04	5731	.130E-04	.139E-04
58	2.7	0.0	0.0	6908	.147E-04	6481	.141E-04	5760	.130E-04	.140E-04
59	2.7	-30.0	0.0	6509	.138E-04	5965	.129E-04	5291	.119E-04	.129E-04
60	2.7	-60.0	0.0	5567	.115E-04	5041	.109E-04	4511	.101E-04	.108E-04
66	3.0	90.0	0.0	5827	.122E-04	5162	.111E-04	4753	.107E-04	.113E-04
67	3.0	45.0	0.0	6876	.147E-04	6303	.137E-04	5702	.129E-04	.137E-04
68	3.0	0.0	0.0	7030	.150E-04	6503	.141E-04	5835	.132E-04	.141E-04
69	3.0	-45.0	0.0	5105	.104E-04	4574	.982E-05	4087	.910E-05	.979E-05
70	3.0	-90.0	0.0	4709	.950E-05	4176	.893E-05	3719	.823E-05	.889E-05
75	3.3	90.0	0.0	5820	.121E-04	5161	.111E-04	4749	.107E-04	.113E-04
76	3.3	45.0	0.0	6801	.145E-04	6200	.135E-04	5637	.128E-04	.136E-04
77	3.3	0.0	0.0	6987	.149E-04	6408	.139E-04	5799	.131E-04	.140E-04
78	3.3	-45.0	0.0	6347	.134E-04	5804	.126E-04	5177	.117E-04	.125E-04
79	3.3	-90.0	0.0	4639	.934E-05	4120	.880E-05	3672	.812E-05	.875E-05
84	3.6	90.0	0.0	5915	.124E-04	5268	.114E-04	4857	.109E-04	.115E-04
86	3.6	0.0	0.0	7019	.150E-04	6440	.140E-04	5838	.132E-04	.141E-04
87	3.6	-45.0	0.0	6133	.129E-04	5586	.121E-04	5017	.113E-04	.121E-04
88	3.6	-90.0	0.0	4792	.970E-05	4295	.919E-05	3801	.843E-05	.911E-05
93	3.9	90.0	0.0	5856	.122E-04	5199	.112E-04	4783	.107E-04	.114E-04
94	3.9	45.0	0.0	6738	.143E-04	6108	.132E-04	5584	.126E-04	.134E-04
95	3.9	0.0	0.0	6605	.140E-04	6038	.131E-04	5497	.124E-04	.132E-04
96	3.9	-45.0	0.0	6023	.126E-04	5471	.118E-04	4923	.111E-04	.118E-04
97	3.9	-90.0	0.0	4685	.944E-05	4161	.889E-05	3717	.823E-05	.886E-05
102	4.2	90.0	0.0	5829	.122E-04	5179	.112E-04	4776	.107E-04	.113E-04
103	4.2	45.0	0.0	6551	.139E-04	5911	.128E-04	5426	.123E-04	.130E-04
104	4.2	0.0	0.0	6561	.139E-04	5968	.129E-04	5420	.122E-04	.130E-04
105	4.2	-45.0	0.0	5949	.125E-04	5397	.117E-04	4870	.109E-04	.117E-04
106	4.2	-90.0	0.0	4737	.957E-05	4201	.916E-05	3739	.828E-05	.901E-05

RUN # 56

GEP TEST NO. S8;1M-16M
100%,IN,BLER221;18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.90 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.64E+03		.13E+03		.15E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	690	.126E-06	205	.174E-06	232	.191E-06	.164E-06
6	.6	0.0	0.0	923	.680E-06	610	.108E-05	921	.102E-05	.119E-05
11	.9	0.0	0.0	1620	.234E-05	1438	.293E-05	2337	.516E-05	.347E-05
16	1.2	15.0	0.0	2803	.515E-05	2641	.562E-05	3939	.894E-05	.656E-05
17	1.2	0.0	0.0	2632	.474E-05	2467	.523E-05	3739	.846E-05	.613E-05
18	1.2	-15.0	0.0	2568	.459E-05	2411	.510E-05	3638	.823E-05	.596E-05
23	1.5	30.0	0.0	3644	.715E-05	3459	.745E-05	4914	.112E-04	.860E-05
24	1.5	0.0	0.0	3645	.715E-05	3480	.749E-05	4943	.113E-04	.863E-05
25	1.5	-30.0	0.0	3153	.590E-05	2952	.631E-05	4206	.956E-05	.727E-05
30	1.8	30.0	0.0	4046	.811E-05	3799	.821E-05	5096	.117E-04	.931E-05
31	1.8	0.0	0.0	4402	.895E-05	4201	.911E-05	5562	.128E-04	.103E-04
32	1.8	-30.0	0.0	3781	.748E-05	3572	.770E-05	4820	.110E-04	.872E-05
37	2.1	60.0	0.0	4730	.973E-05	4429	.961E-05	5552	.127E-04	.107E-04
38	2.1	30.0	0.0	5047	.105E-04	4764	.104E-04	6069	.140E-04	.116E-04
39	2.1	0.0	0.0	5038	.105E-04	4793	.104E-04	6072	.140E-04	.116E-04
40	2.1	-30.0	0.0	4431	.902E-05	4156	.900E-05	5328	.122E-04	.101E-04
41	2.1	-60.0	0.0	3234	.610E-05	2935	.628E-05	3852	.873E-05	.705E-05
46	2.4	60.0	0.0	4656	.956E-05	4306	.934E-05	5213	.119E-04	.103E-04
47	2.4	30.0	0.0	5420	.114E-04	5130	.112E-04	6261	.144E-04	.123E-04
48	2.4	0.0	0.0	0	.000E+00	5099	.111E-04	6254	.144E-04	.858E-05
50	2.4	-60.0	0.0	3657	.710E-05	3316	.713E-05	4120	.936E-05	.788E-05
56	2.7	60.0	0.0	5345	.112E-04	4998	.109E-04	5873	.135E-04	.118E-04
57	2.7	30.0	0.0	5598	.110E-04	5235	.114E-04	6202	.143E-04	.125E-04
58	2.7	0.0	0.0	5457	.115E-04	5120	.112E-04	6118	.141E-04	.122E-04
59	2.7	-30.0	0.0	4869	.101E-04	4538	.986E-05	5434	.125E-04	.108E-04
60	2.7	-60.0	0.0	3877	.771E-05	3510	.756E-05	4224	.961E-05	.828E-05
67	3.0	45.0	0.0	5981	.127E-04	5368	.117E-04	6165	.142E-04	.128E-04
68	3.0	0.0	0.0	5576	.117E-04	5188	.113E-04	6044	.139E-04	.123E-04
69	3.0	-45.0	0.0	4555	.932E-05	4146	.898E-05	4866	.111E-04	.979E-05
76	3.3	45.0	0.0	5548	.117E-04	5168	.113E-04	5905	.136E-04	.122E-04
77	3.3	0.0	0.0	5461	.115E-04	5055	.110E-04	5838	.134E-04	.120E-04
78	3.3	-45.0	0.0	4539	.928E-05	4110	.890E-05	4754	.109E-04	.967E-05
85	3.6	45.0	0.0	5515	.116E-04	5090	.111E-04	5763	.132E-04	.120E-04
86	3.6	0.0	0.0	5398	.113E-04	4968	.108E-04	5631	.129E-04	.117E-04
87	3.6	-45.0	0.0	4610	.945E-05	4167	.903E-05	4705	.107E-04	.973E-05
94	3.9	45.0	0.0	5478	.115E-04	5034	.110E-04	5574	.128E-04	.117E-04
95	3.9	0.0	0.0	5309	.111E-04	4060	.106E-04	5368	.123E-04	.113E-04
96	3.9	-45.0	0.0	4523	.924E-05	4059	.879E-05	4471	.102E-04	.940E-05
104	4.2	0.0	0.0	5233	.109E-04	4758	.103E-04	5157	.118E-04	.110E-04
113	4.5	0.0	0.0	5125	.107E-04	4638	.101E-04	4968	.114E-04	.107E-04

RUN # 57

DEP12D TEST NO.12,11-16M-100%,IN,BLER23::10,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.80 M/S	15.51 M/S	1.80 M/S	15.51 M/S	1.80 M/S	15.51 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.33E+05	
BACKGROUND	.65E+03		.11E+03		.14E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.14E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
74	3.3	135.0	0.0	2210	.394E-05	1899	.423E-05	1652	.380E-05	.399E-05
75	3.3	90.0	0.0	3024	.539E-05	2779	.631E-05	2433	.573E-05	.602E-05
76	3.3	45.0	0.0	3577	.738E-05	3352	.764E-05	3002	.715E-05	.740E-05
77	3.3	0.0	0.0	3668	.761E-05	3353	.767E-05	3084	.736E-05	.755E-05
78	3.3	-45.0	0.0	3145	.622E-05	2743	.622E-05	2563	.606E-05	.619E-05
79	3.3	-90.0	0.0	2408	.444E-05	1903	.424E-05	1809	.418E-05	.428E-05
80	3.3	-135.0	0.0	1755	.272E-05	1240	.267E-05	1205	.267E-05	.271E-05
83	3.6	135.0	0.0	2281	.412E-05	1832	.407E-05	1679	.385E-05	.401E-05
84	3.6	90.0	0.0	3220	.650E-05	2941	.669E-05	2612	.618E-05	.646E-05
85	3.6	45.0	0.0	3700	.769E-05	3437	.786E-05	3091	.738E-05	.765E-05
86	3.6	0.0	0.0	3707	.771E-05	3337	.763E-05	3069	.732E-05	.755E-05
87	3.6	-45.0	0.0	3172	.636E-05	2748	.624E-05	2551	.603E-05	.621E-05
88	3.6	-135.0	0.0	1855	.304E-05	1317	.285E-05	1300	.290E-05	.293E-05
91	3.9	135.0	0.0	2604	.493E-05	2302	.518E-05	2008	.467E-05	.493E-05
92	3.9	90.0	0.0	3280	.663E-05	2975	.677E-05	2657	.622E-05	.657E-05
93	3.9	45.0	0.0	3725	.775E-05	3438	.787E-05	3095	.739E-05	.767E-05
94	3.9	0.0	0.0	2445	.453E-05	2036	.455E-05	1875	.434E-05	.448E-05
95	3.9	-45.0	0.0	3290	.666E-05	2803	.637E-05	2623	.621E-05	.641E-05
96	3.9	-90.0	0.0	2556	.481E-05	2032	.454E-05	1951	.453E-05	.463E-05
97	3.9	-135.0	0.0	1896	.315E-05	1349	.293E-05	1316	.294E-05	.300E-05
101	4.2	135.0	0.0	2662	.508E-05	2329	.524E-05	2056	.479E-05	.504E-05
102	4.2	90.0	0.0	3350	.681E-05	3033	.691E-05	2694	.639E-05	.670E-05
103	4.2	45.0	0.0	3725	.775E-05	3396	.777E-05	3057	.729E-05	.761E-05
104	4.2	0.0	0.0	3813	.797E-05	3329	.778E-05	3120	.745E-05	.773E-05
105	4.2	-45.0	0.0	3369	.685E-05	2874	.653E-05	2704	.641E-05	.660E-05
106	4.2	-90.0	0.0	2684	.513E-05	2159	.484E-05	2062	.481E-05	.492E-05
107	4.2	-135.0	0.0	1985	.337E-05	1421	.310E-05	1390	.313E-05	.320E-05
110	4.5	135.0	0.0	2714	.521E-05	2335	.526E-05	2062	.481E-05	.509E-05
111	4.5	90.0	0.0	3425	.700E-05	3026	.706E-05	2774	.659E-05	.688E-05
112	4.5	45.0	0.0	3762	.784E-05	3433	.786E-05	3118	.744E-05	.772E-05
113	4.5	0.0	0.0	3809	.796E-05	3364	.769E-05	3105	.741E-05	.775E-05
114	4.5	-45.0	0.0	3417	.698E-05	2900	.660E-05	2741	.650E-05	.669E-05
115	4.5	-90.0	0.0	2746	.529E-05	2191	.492E-05	2112	.493E-05	.504E-05
116	4.5	-135.0	0.0	2088	.363E-05	1531	.336E-05	1490	.338E-05	.345E-05
119	4.8	135.0	0.0	2845	.554E-05	2489	.562E-05	2207	.517E-05	.545E-05
120	4.8	90.0	0.0	3471	.711E-05	3127	.713E-05	2809	.667E-05	.697E-05
121	4.8	45.0	0.0	3709	.771E-05	3413	.781E-05	3085	.736E-05	.770E-05
122	4.8	0.0	0.0	3742	.779E-05	3319	.759E-05	3050	.727E-05	.755E-05
123	4.8	-45.0	0.0	3360	.683E-05	2839	.645E-05	2647	.627E-05	.651E-05
124	4.8	-90.0	0.0	2799	.542E-05	2214	.497E-05	2103	.491E-05	.510E-05
125	4.8	-135.0	0.0	2154	.300E-05	1560	.345E-05	1500	.340E-05	.355E-05

RUN # 58

GEP12D TEST NO:12, 1:10M
100%,IN,BLDG2:1:10,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S
EXIT VEL.	2.32 M/S	17.90 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.00 M/S
VOL. FLOW	.35E-03M3/S	.27E103M3/S	.37E-03M3/S	.29E103M3/S	.35E-03M3/S	.27E103M3/S
SOURCE STRENGTH	.10E106		.53E105		.34E105	
BACKGROUND	.71E102		.15E103		.11E102	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
9	.3	0.0	0.0	780	.181E-06	228	.177E-06	200	.225E-06	.194E-06
8	.3	0.0	0.0	842	.337E-06	314	.301E-06	278	.420E-06	.379E-06
10	.9	15.0	0.0	1144	.110E-05	694	.120E-05	642	.133E-05	.124E-05
11	.9	0.0	0.0	1145	.110E-05	700	.131E-05	641	.133E-05	.125E-05
12	.9	-15.0	0.0	1091	.244E-06	643	.114E-05	600	.122E-05	.112E-05
16	1.2	15.0	0.0	1736	.259E-05	1302	.233E-05	1206	.294E-05	.282E-05
17	1.2	0.0	0.0	1707	.251E-05	1353	.204E-05	1258	.207E-05	.274E-05
18	1.2	-15.0	0.0	1623	.230E-05	1247	.259E-05	1160	.262E-05	.251E-05
23	1.5	60.0	0.0	2150	.383E-05	1828	.396E-05	1661	.387E-05	.382E-05
24	1.5	30.0	0.0	2409	.420E-05	2155	.473E-05	1957	.461E-05	.455E-05
25	1.5	0.0	0.0	2357	.415E-05	2057	.450E-05	1917	.451E-05	.439E-05
26	1.5	-30.0	0.0	2039	.335E-05	1663	.357E-05	1521	.370E-05	.354E-05
27	1.5	-60.0	0.0	1579	.212E-05	1133	.232E-05	1102	.249E-05	.233E-05
29	1.8	60.0	0.0	781	.184E-06	262	.258E-06	234	.310E-06	.251E-06
30	1.8	30.0	0.0	3025	.503E-05	2767	.618E-05	2528	.604E-05	.602E-05
31	1.8	0.0	0.0	2993	.576E-05	2680	.598E-05	2535	.606E-05	.593E-05
32	1.8	-30.0	0.0	2498	.450E-05	2138	.469E-05	2026	.470E-05	.466E-05
33	1.8	-60.0	0.0	1883	.296E-05	1465	.310E-05	1396	.321E-05	.309E-05
37	2.1	60.0	0.0	3148	.614E-05	2918	.654E-05	2631	.630E-05	.633E-05
38	2.1	30.0	0.0	3541	.713E-05	3237	.729E-05	2994	.720E-05	.721E-05
39	2.1	0.0	0.0	3458	.692E-05	3062	.693E-05	2929	.704E-05	.696E-05
40	2.1	-30.0	0.0	3004	.578E-05	2609	.581E-05	2469	.589E-05	.583E-05
41	2.1	-60.0	0.0	2333	.409E-05	1887	.410E-05	1812	.425E-05	.415E-05
46	2.4	60.0	0.0	3544	.714E-05	3260	.735E-05	2959	.711E-05	.720E-05
47	2.4	30.0	0.0	3734	.761E-05	3308	.765E-05	3158	.761E-05	.763E-05
48	2.4	0.0	0.0	3723	.759E-05	3363	.759E-05	3150	.759E-05	.759E-05
49	2.4	-30.0	0.0	3311	.655E-05	2893	.640E-05	2744	.650E-05	.653E-05
50	2.4	-60.0	0.0	2578	.471E-05	2137	.469E-05	2023	.478E-05	.472E-05
55	2.7	90.0	0.0	3112	.605E-05	2820	.633E-05	2507	.609E-05	.612E-05
56	2.7	60.0	0.0	3661	.743E-05	3358	.758E-05	3047	.733E-05	.745E-05
57	2.7	30.0	0.0	3885	.799E-05	3566	.807E-05	3294	.795E-05	.801E-05
58	2.7	0.0	0.0	3776	.772E-05	3390	.765E-05	3200	.772E-05	.770E-05
59	2.7	-30.0	0.0	3458	.692E-05	3015	.677E-05	2846	.683E-05	.684E-05
60	2.7	-60.0	0.0	2780	.521E-05	2334	.516E-05	2203	.523E-05	.520E-05
61	2.7	-90.0	0.0	1227	.131E-05	634	.114E-05	505	.906E-06	.114E-05
65	3.0	135.0	0.0	2475	.445E-05	2105	.462E-05	1878	.441E-05	.449E-05
66	3.0	90.0	0.0	3276	.646E-05	2973	.667E-05	2669	.639E-05	.651E-05
67	3.0	45.0	0.0	4010	.831E-05	3661	.830E-05	3365	.813E-05	.825E-05
68	3.0	0.0	0.0	3976	.822E-05	3575	.809E-05	3349	.809E-05	.813E-05
69	3.0	-45.0	0.0	776	.171E-06	259	.251E-06	247	.342E-06	.255E-06
70	3.0	-90.0	0.0	2364	.417E-05	1836	.390E-05	1749	.409E-05	.408E-05
71	3.0	-135.0	0.0	1668	.242E-05	1114	.227E-05	1076	.241E-05	.237E-05

RUN # 59

GEP+2D TEST NO.14, 1-10M
100%,OUT,BLER25:18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.80 M/S	15.51 M/S	1.80 M/S	15.51 M/S	1.80 M/S	15.51 M/S
EXIT VEL.	2.32 M/S	12.90 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.75E+03		.17E+03		.12E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	780	.081E-07	190	.591E-07	168	.120E-06	.885E-07
5	.6	0.0	0.0	785	.101E-06	200	.828E-07	182	.155E-06	.112E-06
10	.9	15.0	0.0	869	.312E-06	283	.279E-06	283	.407E-06	.332E-06
11	.9	0.0	0.0	869	.312E-06	285	.284E-06	293	.432E-06	.342E-06
12	.9	-15.0	0.0	844	.249E-06	265	.236E-06	264	.359E-06	.281E-06
16	1.2	15.0	0.0	1103	.901E-06	511	.818E-06	547	.107E-05	.926E-06
17	1.2	0.0	0.0	1056	.783E-06	473	.720E-06	506	.963E-06	.823E-06
18	1.2	-15.0	0.0	1043	.750E-06	446	.664E-06	480	.898E-06	.769E-06
22	1.5	60.0	0.0	1271	.132E-05	605	.123E-05	721	.150E-05	.135E-05
23	1.5	30.0	0.0	1361	.155E-05	760	.141E-05	828	.177E-05	.157E-05
24	1.5	0.0	0.0	1346	.151E-05	745	.137E-05	805	.171E-05	.153E-05
25	1.5	-30.0	0.0	1173	.108E-05	585	.993E-06	625	.126E-05	.111E-05
26	1.5	-60.0	0.0	1028	.712E-06	412	.584E-06	441	.801E-06	.697E-06
30	1.8	30.0	0.0	1612	.218E-05	1030	.205E-05	1091	.242E-05	.221E-05
31	1.8	0.0	0.0	1546	.202E-05	942	.184E-05	1015	.223E-05	.203E-05
32	1.8	-30.0	0.0	1392	.163E-05	788	.147E-05	846	.181E-05	.163E-05
33	1.8	-60.0	0.0	1188	.111E-05	550	.910E-06	629	.127E-05	.110E-05
37	2.1	60.0	0.0	1843	.276E-05	1234	.253E-05	1301	.275E-05	.274E-05
38	2.1	30.0	0.0	1853	.279E-05	1236	.253E-05	1321	.300E-05	.277E-05
39	2.1	0.0	0.0	1829	.273E-05	1211	.247E-05	1301	.295E-05	.271E-05
40	2.1	-30.0	0.0	1663	.231E-05	1027	.204E-05	1100	.245E-05	.226E-05
41	2.1	-60.0	0.0	1438	.174E-05	788	.147E-05	853	.183E-05	.168E-05
46	2.4	60.0	0.0	2028	.323E-05	1406	.293E-05	1458	.334E-05	.316E-05
47	2.4	30.0	0.0	2082	.336E-05	1444	.302E-05	1536	.353E-05	.330E-05
48	2.4	0.0	0.0	2083	.337E-05	1420	.297E-05	1496	.343E-05	.325E-05
49	2.4	-30.0	0.0	1895	.289E-05	1246	.256E-05	1324	.300E-05	.281E-05
50	2.4	-60.0	0.0	1625	.221E-05	955	.187E-05	1014	.223E-05	.210E-05
55	2.7	90.0	0.0	1865	.282E-05	1251	.257E-05	1273	.288E-05	.275E-05
56	2.7	60.0	0.0	2233	.374E-05	1591	.337E-05	1625	.376E-05	.362E-05
57	2.7	30.0	0.0	2317	.396E-05	1661	.354E-05	1728	.401E-05	.383E-05
58	2.7	0.0	0.0	2200	.366E-05	1516	.319E-05	1610	.372E-05	.352E-05
59	2.7	-30.0	0.0	2089	.338E-05	1405	.293E-05	1487	.341E-05	.324E-05
60	2.7	-60.0	0.0	1815	.269E-05	1128	.228E-05	1186	.266E-05	.254E-05
61	2.7	-90.0	0.0	999	.639E-06	425	.615E-06	423	.756E-06	.669E-06
65	3.0	135.0	0.0	1545	.201E-05	960	.180E-05	946	.206E-05	.198E-05
66	3.0	90.0	0.0	2061	.331E-05	1467	.308E-05	1472	.337E-05	.325E-05
67	3.0	45.0	0.0	2457	.431E-05	1812	.389E-05	1850	.432E-05	.417E-05
68	3.0	0.0	0.0	2329	.399E-05	1637	.348E-05	1725	.401E-05	.382E-05
69	3.0	-45.0	0.0	2021	.321E-05	1339	.278E-05	1387	.316E-05	.304E-05
70	3.0	-90.0	0.0	1505	.191E-05	849	.162E-05	892	.193E-05	.182E-05
71	3.0	-135.0	0.0	1163	.105E-05	525	.851E-06	551	.108E-05	.990E-06

RUN # 60

GEP+2D TEST NO.14;11-16M
100%;OUT;BLER26!!18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.69E+03		.17E+03		.13E+03	
CALIBRATION FACTOR	.44E-02		.23E-02		.16E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
74	3.3	135.0	0.0	1654	.243E-05	1102	.223E-05	1118	.247E-05	.237E-05
75	3.3	90.0	0.0	2374	.424E-05	1775	.380E-05	1811	.420E-05	.407E-05
76	3.3	45.0	0.0	3043	.593E-05	2342	.514E-05	2442	.577E-05	.560E-05
77	3.3	0.0	0.0	3023	.588E-05	2345	.515E-05	2431	.574E-05	.558E-05
78	3.3	-45.0	0.0	2538	.466E-05	1860	.400E-05	1943	.452E-05	.439E-05
79	3.3	-90.0	0.0	1977	.324E-05	1330	.275E-05	1397	.316E-05	.305E-05
80	3.3	-135.0	0.0	1363	.170E-05	774	.144E-05	820	.172E-05	.162E-05
83	3.6	135.0	0.0	2040	.340E-05	1432	.299E-05	1472	.335E-05	.324E-05
84	3.6	90.0	0.0	2632	.489E-05	2002	.434E-05	2054	.480E-05	.467E-05
85	3.6	45.0	0.0	3175	.626E-05	2472	.545E-05	2564	.607E-05	.592E-05
86	3.6	0.0	0.0	3094	.605E-05	2403	.529E-05	2483	.587E-05	.573E-05
87	3.6	-45.0	0.0	2593	.479E-05	1909	.412E-05	1976	.461E-05	.450E-05
88	3.6	-90.0	0.0	2109	.350E-05	1465	.307E-05	1523	.348E-05	.337E-05
92	3.9	135.0	0.0	2012	.333E-05	1467	.307E-05	1442	.327E-05	.322E-05
93	3.9	90.0	0.0	2721	.512E-05	2004	.453E-05	2126	.490E-05	.487E-05
94	3.9	45.0	0.0	3216	.636E-05	2532	.559E-05	2594	.615E-05	.603E-05
95	3.9	0.0	0.0	2897	.556E-05	2230	.489E-05	2263	.532E-05	.525E-05
96	3.9	-45.0	0.0	2730	.514E-05	2049	.445E-05	2087	.488E-05	.482E-05
97	3.9	-90.0	0.0	2211	.383E-05	1547	.326E-05	1609	.369E-05	.359E-05
98	3.9	-135.0	0.0	1722	.260E-05	1091	.218E-05	1150	.255E-05	.244E-05
101	4.2	135.0	0.0	2064	.346E-05	1520	.320E-05	1470	.339E-05	.335E-05
102	4.2	90.0	0.0	2788	.528E-05	2149	.469E-05	2166	.508E-05	.501E-05
103	4.2	45.0	0.0	3218	.637E-05	2524	.557E-05	2559	.606E-05	.599E-05
104	4.2	0.0	0.0	3200	.632E-05	2514	.555E-05	2533	.600E-05	.595E-05
105	4.2	-45.0	0.0	2842	.542E-05	2150	.469E-05	2178	.511E-05	.507E-05
106	4.2	-90.0	0.0	2341	.416E-05	1676	.357E-05	1708	.394E-05	.388E-05
107	4.2	-135.0	0.0	1654	.293E-05	1220	.249E-05	1250	.280E-05	.273E-05
110	4.5	135.0	0.0	1993	.328E-05	1460	.306E-05	1409	.319E-05	.318E-05
111	4.5	90.0	0.0	2840	.542E-05	2211	.483E-05	2208	.519E-05	.514E-05
112	4.5	45.0	0.0	3260	.647E-05	2583	.571E-05	2600	.616E-05	.611E-05
113	4.5	0.0	0.0	3304	.650E-05	2610	.570E-05	2625	.623E-05	.619E-05
114	4.5	-45.0	0.0	2918	.561E-05	2232	.488E-05	2250	.529E-05	.525E-05
115	4.5	-90.0	0.0	2465	.447E-05	1784	.382E-05	1796	.416E-05	.414E-05
116	4.5	-135.0	0.0	1940	.315E-05	1300	.268E-05	1327	.299E-05	.293E-05
119	4.8	135.0	0.0	2251	.393E-05	1687	.360E-05	1634	.375E-05	.376E-05
120	4.8	90.0	0.0	2847	.543E-05	2230	.488E-05	2211	.519E-05	.516E-05
121	4.8	45.0	0.0	3260	.647E-05	2596	.574E-05	2594	.615E-05	.611E-05
122	4.8	0.0	0.0	3301	.658E-05	2609	.577E-05	2594	.615E-05	.616E-05
123	4.8	-45.0	0.0	2985	.578E-05	2294	.503E-05	2295	.540E-05	.540E-05
124	4.8	-90.0	0.0	2507	.450E-05	1843	.396E-05	1839	.427E-05	.426E-05
125	4.8	-135.0	0.0	1968	.322E-05	1343	.278E-05	1215	.271E-05	.290E-05

RUN # 61

DEP TEST NO.S8;1M-16M
100%,IN,BLER27::18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.59E+03		.10E+03		.17E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	696	.261E-06	250	.175E-06	219	.112E-06	.182E-06
6	.6	0.0	0.0	1199	.152E-05	1032	.200E-05	758	.145E-05	.167E-05
11	.9	0.0	0.0	2495	.470E-05	2794	.616E-05	2083	.475E-05	.525E-05
17	1.2	0.0	0.0	4043	.867E-05	4675	.106E-04	3575	.847E-05	.927E-05
23	1.5	30.0	0.0	5364	.120E-04	6071	.139E-04	4769	.114E-04	.125E-04
24	1.5	0.0	0.0	5175	.115E-04	5831	.133E-04	4564	.109E-04	.119E-04
25	1.5	-30.0	0.0	4148	.893E-05	4585	.104E-04	3643	.864E-05	.934E-05
30	1.8	30.0	0.0	6071	.138E-04	6774	.155E-04	5373	.129E-04	.141E-04
31	1.8	0.0	0.0	5579	.125E-04	6149	.141E-04	4926	.118E-04	.128E-04
32	1.8	-30.0	0.0	4504	.982E-05	4830	.110E-04	3932	.936E-05	.101E-04
38	2.1	30.0	0.0	6431	.147E-04	7023	.161E-04	5674	.137E-04	.149E-04
39	2.1	0.0	0.0	5829	.132E-04	6298	.144E-04	5087	.122E-04	.133E-04
40	2.1	-30.0	0.0	4849	.107E-04	5104	.116E-04	4184	.999E-05	.108E-04
47	2.4	30.0	0.0	6627	.152E-04	7056	.162E-04	5801	.140E-04	.151E-04
48	2.4	0.0	0.0	5996	.136E-04	6341	.145E-04	5225	.126E-04	.136E-04
49	2.4	-30.0	0.0	5022	.111E-04	5163	.117E-04	4303	.103E-04	.111E-04
56	2.7	60.0	0.0	5993	.136E-04	6209	.142E-04	5157	.124E-04	.134E-04
57	2.7	30.0	0.0	6530	.149E-04	6836	.157E-04	5699	.138E-04	.148E-04
58	2.7	0.0	0.0	6042	.137E-04	6235	.143E-04	5208	.125E-04	.135E-04
59	2.7	-30.0	0.0	5195	.116E-04	4257	.961E-05	4456	.107E-04	.106E-04
60	2.7	-60.0	0.0	4105	.882E-05	3988	.898E-05	3435	.812E-05	.864E-05
66	3.0	90.0	0.0	5723	.129E-04	5904	.135E-04	4868	.117E-04	.127E-04
67	3.0	45.0	0.0	6497	.140E-04	6652	.153E-04	5581	.135E-04	.145E-04
68	3.0	0.0	0.0	6193	.141E-04	6298	.144E-04	5359	.129E-04	.138E-04
69	3.0	-45.0	0.0	4766	.105E-04	4692	.106E-04	4020	.950E-05	.102E-04
70	3.0	-90.0	0.0	3209	.657E-05	2934	.649E-05	2583	.600E-05	.636E-05
76	3.3	45.0	0.0	6484	.140E-04	6556	.150E-04	5552	.134E-04	.144E-04
77	3.3	0.0	0.0	6241	.142E-04	6255	.143E-04	5364	.129E-04	.138E-04
78	3.3	-45.0	0.0	4740	.104E-04	4607	.104E-04	4009	.955E-05	.101E-04
85	3.6	45.0	0.0	6401	.146E-04	6443	.148E-04	5480	.132E-04	.142E-04
86	3.6	0.0	0.0	6042	.137E-04	5935	.136E-04	5134	.124E-04	.132E-04
87	3.6	-45.0	0.0	4740	.104E-04	4515	.102E-04	3959	.943E-05	.100E-04
94	3.9	45.0	0.0	6300	.143E-04	6239	.143E-04	5356	.129E-04	.138E-04
95	3.9	0.0	0.0	5936	.134E-04	5756	.131E-04	4997	.120E-04	.129E-04
96	3.9	-45.0	0.0	6249	.142E-04	6118	.140E-04	5285	.127E-04	.136E-04
103	4.2	45.0	0.0	5835	.132E-04	5640	.129E-04	4917	.118E-04	.126E-04
104	4.2	0.0	0.0	4532	.989E-05	4226	.954E-05	3732	.886E-05	.943E-05
105	4.2	-45.0	0.0	6087	.138E-04	5923	.135E-04	5156	.124E-04	.133E-04
112	4.5	45.0	0.0	5558	.125E-04	5290	.120E-04	4677	.112E-04	.119E-04
113	4.5	0.0	0.0	4437	.966E-05	4105	.925E-05	3622	.859E-05	.916E-05
122	4.8	0.0	0.0	5304	.118E-04	5025	.114E-04	4398	.105E-04	.113E-04

RUN # 62

GEP TEST NO. 4,11M-16M
100%,OUT,BLER28::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.64E+03		.10E+03		.21E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
74	3.3	135.0	0.0	1945	.327E-05	1600	.335E-05	1418	.300E-05	.321E-05
75	3.3	90.0	0.0	2946	.578E-05	2647	.582E-05	2401	.545E-05	.569E-05
76	3.3	45.0	0.0	3838	.802E-05	3420	.765E-05	3287	.766E-05	.777E-05
77	3.3	0.0	0.0	4057	.857E-05	3460	.774E-05	3448	.806E-05	.811E-05
78	3.3	-45.0	0.0	3385	.688E-05	2755	.608E-05	2786	.641E-05	.645E-05
79	3.3	-90.0	0.0	2481	.461E-05	1859	.396E-05	1912	.423E-05	.426E-05
80	3.3	-135.0	0.0	1762	.281E-05	1190	.239E-05	1249	.258E-05	.259E-05
83	3.6	135.0	0.0	2505	.467E-05	2015	.433E-05	1957	.434E-05	.445E-05
84	3.6	90.0	0.0	3135	.626E-05	2820	.623E-05	2598	.594E-05	.613E-05
85	3.6	45.0	0.0	3925	.824E-05	3483	.780E-05	3350	.781E-05	.795E-05
86	3.6	0.0	0.0	4043	.854E-05	3475	.778E-05	3417	.798E-05	.809E-05
87	3.6	-45.0	0.0	3521	.722E-05	2853	.631E-05	2885	.665E-05	.672E-05
88	3.6	-90.0	0.0	2664	.507E-05	2015	.433E-05	2061	.460E-05	.466E-05
89	3.6	-135.0	0.0	1935	.324E-05	1345	.275E-05	1402	.296E-05	.298E-05
92	3.9	135.0	0.0	2194	.389E-05	1867	.398E-05	1686	.367E-05	.385E-05
93	3.9	90.0	0.0	3263	.658E-05	2913	.645E-05	2682	.615E-05	.639E-05
94	3.9	45.0	0.0	841	.495E-06	391	.500E-06	404	.476E-06	.490E-06
95	3.9	0.0	0.0	4076	.862E-05	3491	.782E-05	3451	.806E-05	.816E-05
96	3.9	-45.0	0.0	3507	.719E-05	2865	.634E-05	2871	.662E-05	.671E-05
97	3.9	-90.0	0.0	2716	.520E-05	2064	.445E-05	2109	.472E-05	.478E-05
98	3.9	-135.0	0.0	2049	.353E-05	1426	.294E-05	1489	.318E-05	.321E-05
101	4.2	135.0	0.0	2268	.408E-05	1936	.415E-05	1756	.384E-05	.402E-05
102	4.2	90.0	0.0	3239	.652E-05	2883	.630E-05	2658	.602E-05	.633E-05
103	4.2	45.0	0.0	3947	.829E-05	3490	.781E-05	3327	.776E-05	.795E-05
104	4.2	0.0	0.0	4084	.864E-05	3506	.785E-05	3432	.802E-05	.816E-05
105	4.2	-45.0	0.0	3600	.742E-05	2955	.655E-05	2936	.678E-05	.691E-05
106	4.2	-90.0	0.0	2803	.542E-05	2147	.464E-05	2185	.491E-05	.498E-05
107	4.2	-135.0	0.0	2240	.401E-05	1606	.337E-05	1652	.358E-05	.365E-05
110	4.5	135.0	0.0	2281	.411E-05	1928	.413E-05	1753	.384E-05	.403E-05
111	4.5	90.0	0.0	3269	.659E-05	2928	.649E-05	2706	.621E-05	.643E-05
112	4.5	45.0	0.0	3939	.827E-05	3494	.782E-05	3317	.773E-05	.794E-05
113	4.5	0.0	0.0	4159	.883E-05	3560	.798E-05	3451	.806E-05	.828E-05
114	4.5	-45.0	0.0	3551	.730E-05	2204	.643E-05	2893	.667E-05	.679E-05
115	4.5	-90.0	0.0	2884	.562E-05	2204	.478E-05	2237	.504E-05	.514E-05
116	4.5	-135.0	0.0	2317	.420E-05	1681	.354E-05	1738	.380E-05	.384E-05
119	4.8	135.0	0.0	2398	.440E-05	2041	.439E-05	1848	.407E-05	.429E-05
120	4.8	90.0	0.0	3320	.672E-05	2936	.651E-05	2700	.619E-05	.647E-05
121	4.8	45.0	0.0	3984	.839E-05	3501	.784E-05	3331	.777E-05	.799E-05
122	4.8	0.0	0.0	4132	.876E-05	3533	.791E-05	3401	.794E-05	.820E-05
123	4.8	-45.0	0.0	3603	.743E-05	2921	.647E-05	2871	.662E-05	.683E-05
124	4.8	-90.0	0.0	2937	.576E-05	2229	.484E-05	2241	.505E-05	.521E-05
125	4.8	-135.0	0.0	2257	.405E-05	1639	.345E-05	2170	.487E-05	.411E-05

RUN # 63

GEP TEST NO.4, 1M-10M
100%,OUT,BLER29:18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.41E+03		.15E+03		.15E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	637	.570E-07	103	.684E-07	100	.672E-07	.646E-07
5	.6	0.0	0.0	737	.307E-06	305	.356E-06	326	.431E-06	.365E-06
10	.9	15.0	0.0	1247	.159E-05	828	.159E-05	915	.190E-05	.169E-05
11	.9	0.0	0.0	1296	.171E-05	877	.171E-05	957	.200E-05	.181E-05
16	1.2	15.0	0.0	1905	.344E-05	1600	.341E-05	1685	.382E-05	.355E-05
17	1.2	0.0	0.0	1890	.320E-05	1487	.315E-05	1601	.361E-05	.332E-05
18	1.2	-15.0	0.0	1864	.314E-05	1389	.291E-05	1542	.346E-05	.317E-05
22	1.5	60.0	0.0	2135	.382E-05	1761	.379E-05	1783	.406E-05	.389E-05
23	1.5	30.0	0.0	2439	.458E-05	2094	.458E-05	2130	.492E-05	.469E-05
24	1.5	0.0	0.0	2548	.486E-05	2114	.462E-05	2225	.516E-05	.488E-05
25	1.5	-30.0	0.0	2286	.420E-05	1746	.376E-05	1911	.438E-05	.410E-05
26	1.5	-60.0	0.0	1619	.252E-05	1110	.226E-05	1240	.271E-05	.249E-05
29	1.8	60.0	0.0	2000	.549E-05	2471	.547E-05	2432	.568E-05	.554E-05
30	1.8	30.0	0.0	3115	.628E-05	2710	.603E-05	2764	.650E-05	.627E-05
31	1.8	0.0	0.0	3027	.606E-05	2555	.567E-05	2671	.627E-05	.599E-05
32	1.8	-30.0	0.0	2383	.444E-05	1845	.399E-05	1975	.454E-05	.432E-05
33	1.8	-60.0	0.0	2110	.376E-05	1540	.327E-05	1694	.384E-05	.361E-05
37	2.1	60.0	0.0	3290	.672E-05	2974	.665E-05	2880	.679E-05	.672E-05
38	2.1	30.0	0.0	3465	.716E-05	3063	.686E-05	3068	.726E-05	.709E-05
39	2.1	0.0	0.0	3351	.687E-05	2823	.630E-05	2928	.691E-05	.669E-05
40	2.1	-30.0	0.0	2954	.588E-05	2325	.512E-05	2505	.586E-05	.561E-05
41	2.1	-60.0	0.0	2447	.460E-05	1831	.396E-05	1971	.453E-05	.435E-05
46	2.4	60.0	0.0	3618	.754E-05	3271	.735E-05	3173	.752E-05	.747E-05
47	2.4	30.0	0.0	3734	.783E-05	3306	.744E-05	3285	.780E-05	.769E-05
48	2.4	0.0	0.0	3789	.797E-05	3242	.729E-05	3318	.788E-05	.771E-05
49	2.4	-30.0	0.0	3257	.664E-05	2577	.572E-05	2738	.644E-05	.625E-05
50	2.4	-60.0	0.0	2675	.518E-05	2038	.445E-05	2168	.502E-05	.487E-05
55	2.7	90.0	0.0	3228	.656E-05	2868	.640E-05	2708	.636E-05	.644E-05
56	2.7	60.0	0.0	3872	.810E-05	3501	.790E-05	3357	.798E-05	.802E-05
57	2.7	30.0	0.0	4076	.869E-05	3599	.813E-05	3569	.851E-05	.844E-05
58	2.7	0.0	0.0	4069	.860E-05	3495	.788E-05	3529	.841E-05	.831E-05
59	2.7	-30.0	0.0	3599	.750E-05	2923	.653E-05	3035	.718E-05	.706E-05
60	2.7	-60.0	0.0	3007	.601E-05	2340	.516E-05	2451	.572E-05	.562E-05
61	2.7	-90.0	0.0	2188	.395E-05	1536	.326E-05	1573	.354E-05	.358E-05
65	3.0	135.0	0.0	2144	.384E-05	1023	.394E-05	1696	.384E-05	.388E-05
66	3.0	90.0	0.0	3263	.665E-05	2914	.651E-05	2765	.650E-05	.656E-05
67	3.0	45.0	0.0	4097	.875E-05	3603	.833E-05	3544	.844E-05	.850E-05
68	3.0	0.0	0.0	4146	.887E-05	3541	.799E-05	3557	.848E-05	.844E-05
69	3.0	-45.0	0.0	3460	.715E-05	2777	.619E-05	2852	.672E-05	.668E-05
70	3.0	-90.0	0.0	2628	.506E-05	2017	.440E-05	2061	.475E-05	.473E-05
71	3.0	-135.0	0.0	1648	.260E-05	1073	.217E-05	1151	.249E-05	.241E-05

RUN # 54

GEP+2D TEST NO.18,1M-10M
40%,OUT,BLER30::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.01 M/S	8.73 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.57E+03		.11E+03		.14E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	605	.232E-06	144	.217E-06	141	.594E-08	.152E-06
6	.6	0.0	0.0	716	.891E-06	246	.800E-06	267	.755E-06	.815E-06
10	.9	15.0	0.0	1119	.320E-05	626	.297E-05	675	.318E-05	.314E-05
11	.9	0.0	0.0	1158	.351E-05	660	.316E-05	716	.342E-05	.336E-05
12	.9	-15.0	0.0	1099	.316E-05	591	.277E-05	646	.301E-05	.298E-05
16	1.2	15.0	0.0	1646	.641E-05	1133	.587E-05	1195	.627E-05	.618E-05
17	1.2	0.0	0.0	1661	.650E-05	1137	.589E-05	1210	.636E-05	.625E-05
18	1.2	-15.0	0.0	1666	.653E-05	1344	.707E-05	1198	.629E-05	.664E-05
22	1.5	60.0	0.0	1791	.727E-05	1206	.674E-05	1349	.719E-05	.706E-05
23	1.5	30.0	0.0	2107	.915E-05	1592	.849E-05	1647	.896E-05	.886E-05
24	1.5	0.0	0.0	2234	.990E-05	1706	.914E-05	1756	.960E-05	.954E-05
25	1.5	-30.0	0.0	1933	.812E-05	1421	.751E-05	1480	.796E-05	.786E-05
26	1.5	-60.0	0.0	1494	.551E-05	976	.497E-05	1026	.527E-05	.524E-05
29	1.8	60.0	0.0	2276	.102E-04	1770	.950E-05	1818	.997E-05	.987E-05
30	1.8	30.0	0.0	2650	.124E-04	2113	.115E-04	2153	.120E-04	.119E-04
31	1.8	0.0	0.0	2743	.129E-04	2202	.120E-04	2243	.125E-04	.125E-04
32	1.8	-30.0	0.0	2183	.960E-05	1667	.892E-05	1699	.927E-05	.926E-05
33	1.8	-60.0	0.0	1828	.749E-05	1319	.693E-05	1364	.728E-05	.723E-05
37	2.1	60.0	0.0	2683	.126E-04	2162	.117E-04	2195	.122E-04	.122E-04
38	2.1	30.0	0.0	3043	.147E-04	2507	.137E-04	2534	.142E-04	.142E-04
39	2.1	0.0	0.0	2990	.144E-04	2453	.134E-04	2475	.139E-04	.139E-04
40	2.1	-30.0	0.0	2618	.122E-04	2097	.114E-04	2103	.117E-04	.117E-04
41	2.1	-60.0	0.0	2060	.887E-05	1552	.826E-05	1561	.845E-05	.852E-05
46	2.4	60.0	0.0	2979	.143E-04	2447	.134E-04	2447	.137E-04	.138E-04
47	2.4	30.0	0.0	3266	.160E-04	2731	.150E-04	2742	.155E-04	.155E-04
48	2.4	0.0	0.0	3127	.152E-04	2585	.142E-04	2582	.145E-04	.146E-04
49	2.4	-30.0	0.0	2799	.133E-04	2278	.124E-04	2273	.127E-04	.128E-04
50	2.4	-60.0	0.0	2189	.964E-05	1678	.898E-05	1677	.914E-05	.925E-05
55	2.7	90.0	0.0	2502	.115E-04	1976	.107E-04	1987	.110E-04	.110E-04
56	2.7	60.0	0.0	3067	.148E-04	2520	.138E-04	2546	.143E-04	.143E-04
57	2.7	30.0	0.0	3311	.163E-04	2786	.153E-04	2762	.156E-04	.157E-04
58	2.7	0.0	0.0	3229	.158E-04	2698	.148E-04	2685	.151E-04	.152E-04
59	2.7	-30.0	0.0	2911	.133E-04	2293	.125E-04	2287	.128E-04	.129E-04
60	2.7	-60.0	0.0	2322	.104E-04	1813	.975E-05	1816	.996E-05	.100E-04
61	2.7	-90.0	0.0	1809	.730E-05	1300	.682E-05	0	.000E+00	.476E-05
65	3.0	135.0	0.0	1820	.745E-05	1344	.707E-05	1344	.716E-05	.722E-05
66	3.0	90.0	0.0	2632	.123E-04	2122	.115E-04	2107	.117E-04	.118E-04
67	3.0	45.0	0.0	3336	.164E-04	2810	.154E-04	2784	.157E-04	.159E-04
68	3.0	0.0	0.0	3315	.163E-04	2701	.153E-04	2754	.155E-04	.157E-04
69	3.0	-45.0	0.0	2685	.126E-04	2160	.117E-04	2156	.120E-04	.121E-04
70	3.0	-90.0	0.0	2006	.855E-05	1503	.790E-05	1793	.982E-05	.877E-05
71	3.0	-135.0	0.0	1313	.444E-05	828	.412E-05	917	.462E-05	.439E-05

RUN # 65

GEP+2D TEST NO.18,11-16M
40%,OUT,BLER31::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.54E+03		.93E+02		.11E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
74	3.3	135.0	0.0	1755	.720E-05	1201	.684E-05	1267	.686E-05	.697E-05
75	3.3	90.0	0.0	2522	.118E-04	2039	.111E-04	1987	.111E-04	.113E-04
76	3.3	45.0	0.0	3212	.152E-04	2706	.142E-04	2647	.150E-04	.153E-04
77	3.3	0.0	0.0	3184	.157E-04	2678	.148E-04	2630	.149E-04	.151E-04
78	3.3	-45.0	0.0	624	.487E-06	178	.485E-06	179	.409E-06	.461E-06
79	3.3	-90.0	0.0	1881	.795E-05	1398	.745E-05	1381	.753E-05	.764E-05
80	3.3	-135.0	0.0	1332	.469E-05	868	.443E-05	856	.442E-05	.451E-05
83	3.6	135.0	0.0	1944	.832E-05	1460	.781E-05	1436	.786E-05	.799E-05
84	3.6	90.0	0.0	2685	.127E-04	2195	.120E-04	2140	.120E-04	.123E-04
85	3.6	45.0	0.0	3272	.162E-04	2754	.152E-04	2705	.154E-04	.156E-04
86	3.6	0.0	0.0	3152	.155E-04	2636	.145E-04	2593	.147E-04	.149E-04
87	3.6	-45.0	0.0	2597	.122E-04	2101	.115E-04	2070	.116E-04	.118E-04
88	3.6	-90.0	0.0	1937	.820E-05	1467	.785E-05	1448	.793E-05	.802E-05
89	3.6	-135.0	0.0	1423	.523E-05	957	.493E-05	955	.501E-05	.506E-05
92	3.9	135.0	0.0	2016	.875E-05	1547	.830E-05	1511	.830E-05	.845E-05
93	3.9	90.0	0.0	2713	.129E-04	2234	.122E-04	2181	.123E-04	.125E-04
94	3.9	45.0	0.0	2722	.129E-04	2226	.122E-04	2166	.122E-04	.124E-04
95	3.9	0.0	0.0	3107	.152E-04	2600	.143E-04	2550	.145E-04	.147E-04
96	3.9	-45.0	0.0	2597	.122E-04	2102	.115E-04	2068	.116E-04	.118E-04
97	3.9	-90.0	0.0	1991	.860E-05	1515	.812E-05	1504	.826E-05	.833E-05
98	3.9	-135.0	0.0	1457	.543E-05	990	.512E-05	993	.523E-05	.526E-05
101	4.2	135.0	0.0	2033	.885E-05	1565	.841E-05	1525	.839E-05	.855E-05
102	4.2	90.0	0.0	2684	.127E-04	2201	.120E-04	2143	.121E-04	.123E-04
103	4.2	45.0	0.0	3145	.155E-04	2643	.146E-04	2584	.147E-04	.149E-04
104	4.2	0.0	0.0	3058	.149E-04	2554	.141E-04	2509	.142E-04	.144E-04
105	4.2	-45.0	0.0	2595	.122E-04	2108	.115E-04	2074	.116E-04	.118E-04
106	4.2	-90.0	0.0	2032	.805E-05	1550	.832E-05	1524	.838E-05	.851E-05
107	4.2	-135.0	0.0	1523	.582E-05	1057	.551E-05	1035	.548E-05	.560E-05
110	4.5	135.0	0.0	2059	.901E-05	1596	.858E-05	1561	.860E-05	.873E-05
111	4.5	90.0	0.0	2670	.126E-04	2195	.120E-04	2151	.121E-04	.122E-04
112	4.5	45.0	0.0	3049	.149E-04	2573	.142E-04	2509	.142E-04	.144E-04
113	4.5	0.0	0.0	2972	.144E-04	2401	.136E-04	2419	.137E-04	.139E-04
114	4.5	-45.0	0.0	2561	.120E-04	2067	.113E-04	2026	.114E-04	.115E-04
115	4.5	-90.0	0.0	2018	.876E-05	1535	.824E-05	1511	.830E-05	.843E-05
116	4.5	-135.0	0.0	1575	.613E-05	1108	.580E-05	1089	.580E-05	.591E-05
119	4.8	135.0	0.0	2094	.921E-05	1622	.873E-05	1569	.865E-05	.886E-05
120	4.8	90.0	0.0	2632	.124E-04	2146	.117E-04	2083	.117E-04	.119E-04
121	4.8	45.0	0.0	2933	.142E-04	2447	.134E-04	2386	.135E-04	.137E-04
122	4.8	0.0	0.0	2893	.140E-04	2394	.131E-04	2336	.132E-04	.134E-04
123	4.8	-45.0	0.0	2542	.119E-04	2031	.111E-04	1983	.111E-04	.113E-04
124	4.8	-90.0	0.0	2060	.901E-05	1572	.845E-05	1533	.843E-05	.863E-05
125	4.8	-135.0	0.0	1542	.594E-05	1075	.561E-05	1049	.557E-05	.570E-05

RUN # 66

GEP+2D TEST NO.16,11-16M
40%,IN,BLER32::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.00 M/S	15.51 M/S	1.00 M/S	15.51 M/S	1.80 M/S	15.51 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.80 M/S	1.11 M/S	9.58 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.67E+03		.22E+03		.21E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
74	3.3	135.0	0.0	2511	.109E-04	2150	.110E-04	1983	.105E-04	.108E-04
75	3.3	90.0	0.0	3342	.159E-04	2984	.150E-04	2767	.152E-04	.156E-04
76	3.3	45.0	0.0	3892	.191E-04	3570	.191E-04	3299	.184E-04	.189E-04
77	3.3	0.0	0.0	3883	.191E-04	3578	.192E-04	3290	.183E-04	.189E-04
78	3.3	-45.0	0.0	3182	.149E-04	2869	.151E-04	2620	.143E-04	.148E-04
79	3.3	-90.0	0.0	2349	.997E-05	2014	.103E-04	1830	.962E-05	.995E-05
80	3.3	-135.0	0.0	1684	.602E-05	1311	.624E-05	1211	.594E-05	.607E-05
83	3.6	135.0	0.0	2368	.101E-04	1993	.101E-04	1849	.974E-05	.999E-05
84	3.6	90.0	0.0	3404	.162E-04	3037	.161E-04	2810	.154E-04	.159E-04
85	3.6	45.0	0.0	3770	.184E-04	3416	.183E-04	3172	.176E-04	.181E-04
86	3.6	0.0	0.0	3771	.184E-04	3429	.183E-04	3156	.175E-04	.181E-04
87	3.6	-45.0	0.0	3084	.143E-04	2740	.144E-04	2530	.130E-04	.142E-04
88	3.6	-90.0	0.0	2379	.101E-04	2025	.103E-04	1850	.974E-05	.101E-04
89	3.6	-135.0	0.0	1777	.657E-05	1399	.675E-05	1287	.640E-05	.657E-05
92	3.9	135.0	0.0	2753	.124E-04	2346	.122E-04	2190	.118E-04	.121E-04
93	3.9	90.0	0.0	3322	.157E-04	2941	.156E-04	2730	.150E-04	.154E-04
94	3.9	45.0	0.0	3297	.156E-04	2930	.155E-04	2715	.149E-04	.153E-04
95	3.9	0.0	0.0	3563	.172E-04	3207	.171E-04	2959	.163E-04	.169E-04
96	3.9	-45.0	0.0	3027	.140E-04	2683	.141E-04	2466	.134E-04	.138E-04
97	3.9	-90.0	0.0	2343	.993E-05	1977	.100E-04	1818	.955E-05	.985E-05
98	3.9	-135.0	0.0	1753	.643E-05	1374	.660E-05	1271	.630E-05	.645E-05
101	4.2	135.0	0.0	2685	.120E-04	2279	.118E-04	2127	.114E-04	.117E-04
102	4.2	90.0	0.0	3249	.153E-04	2874	.152E-04	2656	.145E-04	.150E-04
103	4.2	45.0	0.0	3560	.172E-04	3185	.169E-04	2967	.164E-04	.168E-04
104	4.2	0.0	0.0	3464	.166E-04	3107	.165E-04	2871	.158E-04	.163E-04
105	4.2	-45.0	0.0	2961	.136E-04	2601	.136E-04	2399	.130E-04	.134E-04
106	4.2	-90.0	0.0	2328	.984E-05	1943	.985E-05	1781	.933E-05	.968E-05
107	4.2	-135.0	0.0	1755	.644E-05	1367	.656E-05	1263	.625E-05	.642E-05
110	4.5	135.0	0.0	2679	.119E-04	2273	.117E-04	2114	.113E-04	.117E-04
111	4.5	90.0	0.0	3215	.151E-04	2817	.140E-04	2622	.143E-04	.148E-04
112	4.5	45.0	0.0	3484	.167E-04	3109	.165E-04	2880	.159E-04	.164E-04
113	4.5	0.0	0.0	3330	.158E-04	2968	.157E-04	2741	.150E-04	.155E-04
114	4.5	-45.0	0.0	2848	.129E-04	2472	.129E-04	2281	.123E-04	.127E-04
115	4.5	-90.0	0.0	2263	.946E-05	1883	.951E-05	1731	.903E-05	.934E-05
116	4.5	-135.0	0.0	1763	.649E-05	1368	.657E-05	1262	.625E-05	.644E-05
119	4.8	135.0	0.0	2599	.115E-04	2192	.113E-04	2036	.108E-04	.112E-04
120	4.8	90.0	0.0	3107	.145E-04	2715	.143E-04	2519	.137E-04	.142E-04
121	4.8	45.0	0.0	3345	.159E-04	2962	.157E-04	2748	.151E-04	.155E-04
122	4.8	0.0	0.0	686	.950E-07	257	.223E-06	271	.357E-06	.225E-06
123	4.8	-45.0	0.0	2706	.121E-04	2326	.120E-04	2141	.115E-04	.119E-04
124	4.8	-90.0	0.0	2184	.899E-05	1790	.898E-05	1648	.854E-05	.884E-05
125	4.8	-135.0	0.0	1714	.620E-05	1300	.618E-05	1208	.593E-05	.610E-05

RUN # 67

GEP+2D TEST NO.16,1-10M
40%,IN,BLER33::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.80 M/S	15.51 M/S	1.80 M/S	15.51 M/S	1.80 M/S	15.51 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.80 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.59E+03		.12E+03		.10E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	49.28 CM	147.84 M	49.28 CM	147.84 M	49.28 CM	147.84 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	655	.398E-06	200	.446E-06	193	.551E-06	.465E-06
4	.6	0.0	0.0	901	.186E-05	522	.228E-05	468	.218E-05	.211E-05
10	.9	15.0	0.0	1736	.682E-05	1489	.781E-05	1280	.699E-05	.721E-05
11	.9	0.0	0.0	1709	.666E-05	1484	.778E-05	1270	.693E-05	.713E-05
12	.9	-15.0	0.0	1548	.570E-05	1304	.675E-05	1099	.592E-05	.613E-05
16	1.2	15.0	0.0	2720	.127E-04	2550	.139E-04	2221	.126E-04	.130E-04
17	1.2	0.0	0.0	2719	.127E-04	2547	.139E-04	2226	.126E-04	.130E-04
18	1.2	-15.0	0.0	2507	.114E-04	2332	.126E-04	2025	.114E-04	.118E-04
22	1.5	60.0	0.0	3115	.150E-04	2908	.159E-04	2576	.147E-04	.152E-04
23	1.5	30.0	0.0	3525	.174E-04	3345	.184E-04	2982	.171E-04	.177E-04
24	1.5	0.0	0.0	3528	.175E-04	3378	.186E-04	2989	.171E-04	.177E-04
25	1.5	-30.0	0.0	2994	.143E-04	2801	.153E-04	2484	.141E-04	.146E-04
26	1.5	-60.0	0.0	2221	.970E-05	1989	.107E-04	1745	.975E-05	.100E-04
29	1.8	60.0	0.0	3747	.188E-04	3533	.195E-04	3140	.180E-04	.188E-04
30	1.8	30.0	0.0	4162	.212E-04	3974	.220E-04	3548	.204E-04	.212E-04
31	1.8	0.0	0.0	3998	.202E-04	3812	.211E-04	3396	.195E-04	.203E-04
32	1.8	-30.0	0.0	3466	.171E-04	3265	.180E-04	2924	.167E-04	.173E-04
33	1.8	-60.0	0.0	2666	.123E-04	2425	.132E-04	2161	.122E-04	.126E-04
37	2.1	60.0	0.0	3578	.170E-04	3306	.182E-04	2969	.170E-04	.177E-04
38	2.1	30.0	0.0	4419	.227E-04	4186	.232E-04	3769	.217E-04	.226E-04
39	2.1	0.0	0.0	4220	.216E-04	4000	.221E-04	3589	.207E-04	.215E-04
40	2.1	-30.0	0.0	3748	.188E-04	3510	.194E-04	3148	.181E-04	.187E-04
41	2.1	-60.0	0.0	2963	.141E-04	2693	.147E-04	2400	.136E-04	.141E-04
45	2.4	60.0	0.0	4183	.213E-04	3919	.217E-04	3511	.202E-04	.211E-04
47	2.4	30.0	0.0	4498	.232E-04	4223	.234E-04	3803	.219E-04	.229E-04
48	2.4	0.0	0.0	4344	.223E-04	4061	.225E-04	3688	.213E-04	.220E-04
49	2.4	-30.0	0.0	3835	.193E-04	3555	.196E-04	3202	.184E-04	.191E-04
50	2.4	-60.0	0.0	3050	.146E-04	2761	.151E-04	2487	.141E-04	.146E-04
55	2.7	90.0	0.0	3690	.184E-04	3376	.186E-04	3038	.174E-04	.181E-04
56	2.7	60.0	0.0	4151	.212E-04	3845	.213E-04	3470	.200E-04	.208E-04
57	2.7	30.0	0.0	4438	.229E-04	4134	.229E-04	3756	.217E-04	.225E-04
58	2.7	0.0	0.0	4253	.218E-04	3968	.220E-04	3621	.209E-04	.215E-04
59	2.7	-30.0	0.0	3737	.187E-04	3447	.190E-04	3138	.180E-04	.186E-04
60	2.7	-60.0	0.0	3102	.149E-04	2779	.152E-04	2520	.143E-04	.148E-04
61	2.7	-90.0	0.0	2420	.109E-04	2041	.110E-04	1780	.996E-05	.106E-04
65	3.0	135.0	0.0	2845	.134E-04	2481	.135E-04	2240	.127E-04	.132E-04
66	3.0	90.0	0.0	3754	.188E-04	3434	.189E-04	3103	.178E-04	.185E-04
67	3.0	45.0	0.0	4283	.219E-04	3963	.219E-04	3581	.206E-04	.215E-04
68	3.0	0.0	0.0	4128	.210E-04	3815	.211E-04	3468	.200E-04	.207E-04
69	3.0	-45.0	0.0	3425	.168E-04	3100	.170E-04	2806	.160E-04	.166E-04
70	3.0	-90.0	0.0	2521	.115E-04	2171	.117E-04	1963	.110E-04	.114E-04

RUN # 68

GEP TEST NO. 5, 1-15M
40%,IN,BLER34::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.56E+03		.12E+03		.30E+02	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	740	.100E-05	268	.840E-06	265	.134E-05	.106E-05
6	.6	0.0	0.0	2192	.929E-05	1831	.942E-05	1636	.915E-05	.929E-05
11	.9	0.0	0.0	4562	.228E-04	4271	.228E-04	3852	.218E-04	.225E-04
16	1.2	15.0	0.0	5804	.299E-04	5556	.299E-04	5049	.286E-04	.295E-04
17	1.2	0.0	0.0	5928	.306E-04	5654	.304E-04	5154	.292E-04	.301E-04
18	1.2	-15.0	0.0	5611	.288E-04	5287	.284E-04	4834	.274E-04	.282E-04
23	1.5	30.0	0.0	6241	.324E-04	5915	.318E-04	5431	.308E-04	.317E-04
24	1.5	0.0	0.0	6388	.332E-04	6077	.327E-04	5567	.315E-04	.325E-04
25	1.5	-30.0	0.0	5759	.296E-04	5390	.290E-04	4949	.280E-04	.289E-04
30	1.8	30.0	0.0	6293	.327E-04	5938	.320E-04	5452	.309E-04	.318E-04
31	1.8	0.0	0.0	6363	.331E-04	5994	.323E-04	5505	.312E-04	.322E-04
32	1.8	-30.0	0.0	5877	.303E-04	5471	.294E-04	5038	.285E-04	.294E-04
37	2.1	60.0	0.0	5752	.296E-04	5336	.287E-04	4917	.278E-04	.287E-04
38	2.1	30.0	0.0	6298	.327E-04	5904	.318E-04	5431	.308E-04	.318E-04
39	2.1	0.0	0.0	6103	.316E-04	5702	.307E-04	5270	.299E-04	.307E-04
40	2.1	-30.0	0.0	5677	.292E-04	5236	.281E-04	4833	.274E-04	.282E-04
41	2.1	-60.0	0.0	4521	.226E-04	4043	.216E-04	3769	.213E-04	.218E-04
46	2.4	60.0	0.0	5704	.293E-04	5287	.284E-04	4876	.276E-04	.284E-04
47	2.4	30.0	0.0	6018	.311E-04	5602	.301E-04	5192	.294E-04	.302E-04
48	2.4	0.0	0.0	5917	.305E-04	5502	.296E-04	5078	.288E-04	.296E-04
49	2.4	-30.0	0.0	5365	.274E-04	4898	.263E-04	4548	.257E-04	.265E-04
50	2.4	-60.0	0.0	4435	.221E-04	3948	.210E-04	3691	.209E-04	.213E-04
56	2.7	60.0	0.0	5366	.274E-04	4918	.264E-04	4529	.256E-04	.265E-04
57	2.7	30.0	0.0	5719	.294E-04	5273	.283E-04	4861	.275E-04	.284E-04
58	2.7	0.0	0.0	5637	.289E-04	5173	.278E-04	4779	.271E-04	.279E-04
59	2.7	-30.0	0.0	5145	.261E-04	4670	.250E-04	4316	.244E-04	.252E-04
60	2.7	-60.0	0.0	4317	.214E-04	3824	.204E-04	3568	.202E-04	.206E-04
67	3.0	45.0	0.0	4895	.247E-04	4396	.235E-04	4076	.230E-04	.238E-04
68	3.0	0.0	0.0	5284	.269E-04	4810	.258E-04	4452	.252E-04	.260E-04
69	3.0	-45.0	0.0	4537	.227E-04	4027	.215E-04	3748	.212E-04	.218E-04
76	3.3	45.0	0.0	4957	.251E-04	4501	.241E-04	4145	.234E-04	.242E-04
77	3.3	0.0	0.0	5034	.255E-04	4546	.243E-04	4236	.240E-04	.246E-04
78	3.3	-45.0	0.0	4265	.211E-04	3774	.201E-04	3496	.197E-04	.203E-04
85	3.6	45.0	0.0	4748	.239E-04	4271	.228E-04	3943	.223E-04	.230E-04
86	3.6	0.0	0.0	4729	.238E-04	4242	.227E-04	3923	.222E-04	.229E-04
87	3.6	-45.0	0.0	3949	.193E-04	3441	.183E-04	3219	.182E-04	.186E-04
94	3.9	45.0	0.0	4440	.221E-04	3955	.211E-04	3674	.208E-04	.213E-04
95	3.9	0.0	0.0	4367	.217E-04	3854	.205E-04	3614	.204E-04	.209E-04
104	4.2	0.0	0.0	4063	.200E-04	3552	.189E-04	3305	.187E-04	.192E-04
113	4.5	0.0	0.0	3877	.189E-04	3353	.178E-04	3150	.178E-04	.181E-04

RUN # 69

GEP+3D TEST NO.17, 1-15M
40%,IN,BLER35::18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.83 M/S	15.74 M/S	1.83 M/S	15.74 M/S	1.83 M/S	15.74 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.80 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.62E+03		.18E+03		.21E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	54.36 CM	163.08 M	54.36 CM	163.08 M	54.36 CM	163.08 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	693	.420E-06	191	.519E-07	275	.389E-06	.284E-06
6	.6	0.0	0.0	829	.124E-05	322	.807E-06	425	.129E-05	.111E-05
11	.9	0.0	0.0	1270	.388E-05	731	.317E-05	861	.390E-05	.364E-05
16	1.2	15.0	0.0	1996	.823E-05	1420	.714E-05	1565	.811E-05	.782E-05
17	1.2	0.0	0.0	1968	.806E-05	1400	.702E-05	1539	.795E-05	.767E-05
18	1.2	-15.0	0.0	1874	.750E-05	1299	.644E-05	1451	.743E-05	.711E-05
23	1.5	30.0	0.0	2714	.125E-04	2181	.115E-04	2289	.124E-04	.122E-04
24	1.5	0.0	0.0	2550	.116E-04	2001	.105E-04	2124	.115E-04	.112E-04
25	1.5	-30.0	0.0	2246	.973E-05	1698	.874E-05	1828	.968E-05	.938E-05
30	1.8	30.0	0.0	3143	.151E-04	2590	.139E-04	2662	.147E-04	.145E-04
31	1.8	0.0	0.0	3027	.144E-04	2468	.132E-04	2555	.140E-04	.139E-04
32	1.8	-30.0	0.0	2647	.121E-04	2100	.111E-04	2206	.119E-04	.117E-04
37	2.1	60.0	0.0	3194	.154E-04	2647	.142E-04	2701	.149E-04	.148E-04
38	2.1	30.0	0.0	3423	.168E-04	2892	.156E-04	2929	.163E-04	.162E-04
39	2.1	0.0	0.0	3354	.164E-04	2806	.151E-04	2858	.158E-04	.158E-04
40	2.1	-30.0	0.0	2924	.138E-04	2379	.127E-04	2456	.134E-04	.133E-04
41	2.1	-60.0	0.0	2460	.110E-04	1914	.999E-05	1998	.107E-04	.106E-04
46	2.4	60.0	0.0	866	.146E-05	351	.975E-06	444	.140E-05	.127E-05
47	2.4	30.0	0.0	3575	.177E-04	3031	.164E-04	3063	.171E-04	.171E-04
48	2.4	0.0	0.0	3521	.174E-04	2976	.161E-04	3006	.167E-04	.167E-04
49	2.4	-30.0	0.0	3129	.150E-04	2590	.139E-04	2631	.145E-04	.145E-04
50	2.4	-60.0	0.0	2529	.114E-04	1993	.104E-04	2073	.112E-04	.110E-04
56	2.7	60.0	0.0	3429	.168E-04	2893	.156E-04	2890	.160E-04	.162E-04
57	2.7	30.0	0.0	3695	.184E-04	3161	.172E-04	3161	.177E-04	.177E-04
58	2.7	0.0	0.0	3702	.185E-04	3163	.172E-04	3170	.177E-04	.178E-04
59	2.7	-30.0	0.0	3303	.161E-04	2777	.150E-04	2799	.155E-04	.155E-04
60	2.7	-60.0	0.0	2677	.123E-04	2144	.113E-04	2191	.119E-04	.118E-04
67	3.0	45.0	0.0	1205	.349E-05	720	.310E-05	810	.359E-05	.339E-05
68	3.0	0.0	0.0	3702	.185E-04	3160	.172E-04	3154	.176E-04	.177E-04
69	3.0	-45.0	0.0	3062	.146E-04	2540	.136E-04	2568	.141E-04	.141E-04
76	3.3	45.0	0.0	3644	.181E-04	3108	.169E-04	3093	.173E-04	.174E-04
77	3.3	0.0	0.0	3670	.183E-04	3136	.170E-04	3119	.174E-04	.176E-04
78	3.3	-45.0	0.0	3055	.146E-04	2521	.135E-04	2538	.139E-04	.140E-04
85	3.6	45.0	0.0	3579	.177E-04	3038	.165E-04	3028	.169E-04	.170E-04
86	3.6	0.0	0.0	3542	.175E-04	3007	.163E-04	2991	.166E-04	.168E-04
87	3.6	-45.0	0.0	2933	.138E-04	2412	.129E-04	2416	.132E-04	.133E-04
94	3.9	45.0	0.0	3490	.172E-04	2969	.161E-04	2937	.163E-04	.165E-04
95	3.9	0.0	0.0	3403	.167E-04	2890	.156E-04	2880	.160E-04	.161E-04
96	3.9	-45.0	0.0	2903	.137E-04	2367	.126E-04	2379	.130E-04	.131E-04
104	4.2	0.0	0.0	3331	.162E-04	2791	.150E-04	2779	.154E-04	.155E-04
113	4.5	0.0	0.0	3323	.162E-04	2751	.148E-04	2720	.150E-04	.153E-04

RUN # 70

GEP!3D TEST NO.17, 1-15M
40%,OUT,BLER2&!!8,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.83 M/S	15.74 M/S	1.83 M/S	15.74 M/S	1.83 M/S	15.74 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.52E+03		.12E+03		.20E+03	
CALIBRATION FACTOR	.45E-02		.24E-02		.16E-02	
STACK HEIGHT	54.36 CM	163.08 M	54.36 CM	163.08 M	54.36 CM	163.08 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	608	.108E-06	140	.116E-06	216	.126E-06	.117E-06
6	.6	0.0	0.0	626	.216E-06	187	.307E-06	269	.444E-06	.350E-06
11	.9	0.0	0.0	963	.224E-05	449	.170E-05	578	.230E-05	.214E-05
16	1.2	15.0	0.0	1373	.471E-05	833	.412E-05	891	.418E-05	.433E-05
17	1.2	0.0	0.0	1303	.477E-05	839	.416E-05	996	.481E-05	.457E-05
18	1.2	-15.0	0.0	1459	.522E-05	889	.445E-05	1028	.500E-05	.488E-05
23	1.5	30.0	0.0	1777	.714E-05	1220	.636E-05	1365	.714E-05	.687E-05
24	1.5	0.0	0.0	1844	.754E-05	1266	.663E-05	1421	.736E-05	.717E-05
25	1.5	-30.0	0.0	1640	.631E-05	1065	.547E-05	1228	.620E-05	.599E-05
30	1.8	30.0	0.0	2262	.101E-04	1628	.713E-05	1836	.985E-05	.967E-05
31	1.8	0.0	0.0	2198	.967E-05	1625	.870E-05	1788	.956E-05	.930E-05
32	1.8	-30.0	0.0	1990	.842E-05	1434	.760E-05	1584	.834E-05	.811E-05
37	2.1	60.0	0.0	2390	.108E-04	1821	.984E-05	1959	.106E-04	.104E-04
38	2.1	30.0	0.0	2624	.122E-04	2058	.112E-04	2177	.120E-04	.118E-04
39	2.1	0.0	0.0	2466	.113E-04	1896	.103E-04	2043	.111E-04	.109E-04
40	2.1	-30.0	0.0	2178	.955E-05	1630	.873E-05	1766	.943E-05	.923E-05
41	2.1	-60.0	0.0	1797	.726E-05	1264	.662E-05	1387	.715E-05	.700E-05
46	2.4	60.0	0.0	845	.153E-05	321	.114E-05	382	.112E-05	.127E-05
47	2.4	30.0	0.0	2802	.133E-04	2238	.122E-04	2365	.130E-04	.128E-04
48	2.4	0.0	0.0	2683	.126E-04	2133	.116E-04	2240	.123E-04	.122E-04
49	2.4	-30.0	0.0	2393	.108E-04	1849	.100E-04	1946	.105E-04	.104E-04
50	2.4	-60.0	0.0	1986	.839E-05	1459	.774E-05	1561	.820E-05	.811E-05
55	2.7	60.0	0.0	2759	.130E-04	2192	.120E-04	2311	.127E-04	.126E-04
57	2.7	30.0	0.0	2957	.142E-04	2393	.132E-04	2520	.140E-04	.138E-04
58	2.7	0.0	0.0	2855	.136E-04	2320	.127E-04	2409	.133E-04	.132E-04
59	2.7	-30.0	0.0	2565	.119E-04	2038	.111E-04	2136	.116E-04	.115E-04
60	2.7	-60.0	0.0	2113	.916E-05	1607	.860E-05	1694	.900E-05	.891E-05
67	3.0	45.0	0.0	3026	.146E-04	2462	.135E-04	2531	.140E-04	.141E-04
68	3.0	0.0	0.0	2975	.143E-04	2430	.134E-04	2506	.139E-04	.138E-04
69	3.0	-45.0	0.0	2430	.111E-04	1937	.105E-04	2023	.110E-04	.108E-04
76	3.3	45.0	0.0	2957	.142E-04	2445	.134E-04	2507	.139E-04	.138E-04
77	3.3	0.0	0.0	3034	.147E-04	2518	.139E-04	2566	.142E-04	.143E-04
78	3.3	-45.0	0.0	2513	.116E-04	2004	.109E-04	2060	.112E-04	.112E-04
85	3.6	45.0	0.0	3051	.140E-04	2513	.130E-04	2560	.142E-04	.143E-04
86	3.6	0.0	0.0	2948	.142E-04	2415	.133E-04	2476	.137E-04	.137E-04
87	3.6	-45.0	0.0	2569	.119E-04	2059	.112E-04	2110	.115E-04	.115E-04
94	3.9	45.0	0.0	2998	.145E-04	2481	.137E-04	2545	.141E-04	.141E-04
95	3.9	0.0	0.0	2926	.140E-04	2420	.133E-04	2473	.137E-04	.137E-04
96	3.9	-45.0	0.0	2561	.118E-04	2042	.111E-04	2093	.114E-04	.114E-04
104	4.2	0.0	0.0	2963	.143E-04	2436	.134E-04	2453	.136E-04	.137E-04
113	4.5	0.0	0.0	2880	.138E-04	3493	.195E-04	2394	.132E-04	.155E-04

RUN # 71

GEP TEST NO.6, 1M-15M
40%,OUT,BLER37::10,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.72E+03		.95E+02		.00E+00	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	777	.275E-06	127	.160E-06	143	.741E-06	.389E-06
6	.6	0.0	0.0	1321	.310E-05	646	.275E-05	713	.370E-05	.318E-05
11	.9	0.0	0.0	2607	.102E-04	2019	.961E-05	2045	.106E-04	.101E-04
16	1.2	15.0	0.0	3984	.169E-04	3339	.162E-04	3331	.173E-04	.168E-04
17	1.2	0.0	0.0	4135	.177E-04	3494	.170E-04	3458	.179E-04	.175E-04
18	1.2	-15.0	0.0	4012	.171E-04	7741	.383E-04	3305	.171E-04	.244E-04
23	1.5	30.0	0.0	4587	.201E-04	3982	.194E-04	3902	.202E-04	.199E-04
24	1.5	0.0	0.0	5091	.227E-04	4493	.220E-04	4397	.228E-04	.225E-04
25	1.5	-30.0	0.0	4206	.181E-04	3584	.174E-04	3488	.181E-04	.179E-04
30	1.8	30.0	0.0	5217	.233E-04	4631	.227E-04	4502	.233E-04	.231E-04
31	1.8	0.0	0.0	5552	.251E-04	4983	.244E-04	4796	.249E-04	.248E-04
32	1.8	-30.0	0.0	4673	.205E-04	4086	.199E-04	3933	.204E-04	.203E-04
37	2.1	60.0	0.0	4364	.189E-04	3742	.182E-04	3641	.189E-04	.187E-04
38	2.1	30.0	0.0	5385	.242E-04	4779	.234E-04	4629	.240E-04	.239E-04
39	2.1	0.0	0.0	5666	.257E-04	5104	.250E-04	4911	.255E-04	.254E-04
40	2.1	-30.0	0.0	4815	.212E-04	4237	.207E-04	4080	.211E-04	.210E-04
41	2.1	-60.0	0.0	980	.133E-05	345	.125E-05	378	.196E-05	.151E-05
46	2.4	60.0	0.0	2719	.104E-04	2050	.977E-05	1979	.103E-04	.101E-04
47	2.4	30.0	0.0	5482	.247E-04	4884	.239E-04	4709	.244E-04	.243E-04
48	2.4	0.0	0.0	5580	.252E-04	4998	.245E-04	4792	.248E-04	.248E-04
49	2.4	-30.0	0.0	4658	.204E-04	4041	.197E-04	3882	.201E-04	.201E-04
50	2.4	-60.0	0.0	3522	.145E-04	2903	.140E-04	2805	.145E-04	.144E-04
55	2.7	60.0	0.0	4602	.201E-04	3984	.194E-04	3854	.200E-04	.198E-04
57	2.7	30.0	0.0	5276	.236E-04	4662	.228E-04	4516	.234E-04	.233E-04
58	2.7	0.0	0.0	5335	.239E-04	4728	.231E-04	4529	.235E-04	.235E-04
59	2.7	-30.0	0.0	4717	.207E-04	4118	.201E-04	3953	.205E-04	.204E-04
60	2.7	-60.0	0.0	3613	.150E-04	3010	.146E-04	2900	.150E-04	.149E-04
68	3.0	0.0	0.0	5008	.227E-04	4472	.219E-04	4330	.224E-04	.223E-04
69	3.0	-45.0	0.0	4100	.175E-04	3503	.170E-04	3364	.174E-04	.173E-04
76	3.3	45.0	0.0	4619	.202E-04	3923	.195E-04	3863	.200E-04	.199E-04
77	3.3	0.0	0.0	4879	.216E-04	4250	.208E-04	4107	.213E-04	.212E-04
78	3.3	-45.0	0.0	908	.137E-05	361	.133E-05	383	.199E-05	.156E-05
85	3.6	45.0	0.0	4482	.195E-04	3858	.188E-04	3738	.194E-04	.192E-04
86	3.6	0.0	0.0	4664	.205E-04	4037	.197E-04	3870	.201E-04	.201E-04
87	3.6	-45.0	0.0	3764	.158E-04	3163	.153E-04	3043	.158E-04	.156E-04
94	3.9	45.0	0.0	4367	.189E-04	3741	.182E-04	3609	.187E-04	.186E-04
95	3.9	0.0	0.0	4373	.189E-04	3753	.183E-04	3595	.186E-04	.186E-04
96	3.9	-45.0	0.0	3519	.145E-04	2890	.140E-04	2784	.144E-04	.143E-04
104	4.2	0.0	0.0	4156	.178E-04	3532	.172E-04	3382	.175E-04	.175E-04
113	4.5	0.0	0.0	3998	.170E-04	3368	.163E-04	3213	.167E-04	.167E-04

RUN # 72

DEP TEST NO.5;1M-14M
40%,IN;BLER38;;18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.80 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.10E+04		.69E+03		.45E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	1068	.353E-06	500	.000E+00	546	.477E-06	.273E-06
6	.6	0.0	0.0	2613	.838E-05	2225	.769E-05	1974	.788E-05	.798E-05
11	.9	0.0	0.0	5242	.220E-04	5092	.220E-04	4436	.206E-04	.216E-04
15	1.2	30.0	0.0	6183	.269E-04	5953	.263E-04	5231	.248E-04	.260E-04
16	1.2	15.0	0.0	6768	.299E-04	6615	.296E-04	5901	.282E-04	.293E-04
17	1.2	0.0	0.0	6819	.302E-04	6659	.298E-04	5916	.283E-04	.295E-04
18	1.2	-15.0	0.0	6536	.287E-04	6365	.284E-04	5710	.272E-04	.281E-04
19	1.2	-30.0	0.0	6037	.262E-04	5787	.255E-04	5094	.241E-04	.252E-04
22	1.5	60.0	0.0	5362	.226E-04	5084	.220E-04	4611	.215E-04	.221E-04
23	1.5	30.0	0.0	7039	.314E-04	6755	.303E-04	6149	.295E-04	.304E-04
24	1.5	0.0	0.0	7408	.333E-04	7134	.322E-04	6538	.315E-04	.323E-04
25	1.5	-30.0	0.0	6723	.297E-04	6455	.288E-04	5940	.284E-04	.290E-04
26	1.5	-60.0	0.0	5774	.248E-04	5412	.236E-04	4932	.232E-04	.239E-04
29	1.8	60.0	0.0	6380	.279E-04	5990	.265E-04	5455	.259E-04	.268E-04
30	1.8	30.0	0.0	7154	.320E-04	6787	.305E-04	6264	.301E-04	.308E-04
31	1.8	0.0	0.0	7470	.336E-04	7095	.320E-04	6530	.315E-04	.324E-04
32	1.8	-30.0	0.0	7142	.319E-04	6771	.304E-04	6236	.300E-04	.307E-04
33	1.8	-60.0	0.0	5954	.257E-04	5530	.242E-04	5049	.238E-04	.246E-04
37	2.1	60.0	0.0	6474	.284E-04	6567	.294E-04	5584	.266E-04	.281E-04
38	2.1	30.0	0.0	6982	.311E-04	6548	.293E-04	6090	.292E-04	.298E-04
39	2.1	0.0	0.0	7251	.325E-04	6836	.307E-04	6360	.306E-04	.313E-04
40	2.1	-30.0	0.0	6845	.303E-04	6437	.287E-04	5988	.287E-04	.292E-04
41	2.1	-60.0	0.0	5619	.240E-04	5133	.222E-04	4759	.223E-04	.228E-04
47	2.4	30.0	0.0	6880	.305E-04	6408	.286E-04	5998	.287E-04	.293E-04
48	2.4	0.0	0.0	7005	.312E-04	6523	.292E-04	6107	.293E-04	.299E-04
49	2.4	-30.0	0.0	6562	.289E-04	6061	.269E-04	5664	.270E-04	.276E-04
57	2.7	30.0	0.0	6541	.288E-04	6037	.267E-04	5678	.271E-04	.275E-04
58	2.7	0.0	0.0	6712	.297E-04	6215	.276E-04	5823	.278E-04	.284E-04
59	2.7	-30.0	0.0	6387	.280E-04	5893	.260E-04	5508	.262E-04	.267E-04
67	3.0	45.0	0.0	6098	.265E-04	5558	.243E-04	5213	.247E-04	.251E-04
68	3.0	0.0	0.0	6380	.279E-04	5812	.256E-04	5495	.261E-04	.265E-04
69	3.0	-45.0	0.0	5696	.244E-04	5205	.226E-04	4916	.231E-04	.234E-04
76	3.3	45.0	0.0	5732	.246E-04	5202	.226E-04	4936	.232E-04	.234E-04
77	3.3	0.0	0.0	6044	.262E-04	5507	.241E-04	5219	.247E-04	.250E-04
78	3.3	-45.0	0.0	5768	.248E-04	5013	.216E-04	4702	.220E-04	.228E-04
85	3.6	45.0	0.0	5505	.234E-04	4922	.212E-04	4674	.219E-04	.221E-04
86	3.6	0.0	0.0	5701	.244E-04	5122	.222E-04	4863	.229E-04	.231E-04
87	3.6	-45.0	0.0	5256	.221E-04	4658	.198E-04	4430	.206E-04	.208E-04
94	3.9	45.0	0.0	5251	.221E-04	4671	.199E-04	4433	.206E-04	.209E-04
95	3.9	0.0	0.0	5388	.228E-04	4821	.207E-04	4580	.214E-04	.216E-04
96	3.9	-45.0	0.0	4920	.204E-04	4322	.182E-04	4105	.189E-04	.191E-04
104	4.2	0.0	0.0	5176	.217E-04	4576	.194E-04	4341	.201E-04	.204E-04

RUN # 73

GEP+D TEST NO.15,1-15M
40%,IN,BLER39:18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.80 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.61E+03		.84E+02		.00E+00	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	44.20 CM	132.60 M	44.20 CM	132.60 M	44.20 CM	132.60 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
9	.3	0.0	0.0	646	.185E-06	122	.193E-06	140	.740E-06	.370E-06
6	.6	0.0	0.0	1407	.421E-05	936	.434E-05	895	.473E-05	.442E-05
10	.9	15.0	0.0	3052	.129E-04	2694	.133E-04	2471	.131E-04	.131E-04
11	.9	0.0	0.0	3168	.135E-04	2812	.139E-04	2599	.137E-04	.137E-04
12	.9	-15.0	0.0	2961	.124E-04	2560	.126E-04	2410	.127E-04	.126E-04
16	1.2	15.0	0.0	4563	.209E-04	4239	.211E-04	3932	.208E-04	.209E-04
17	1.2	0.0	0.0	4634	.213E-04	4344	.217E-04	4054	.214E-04	.215E-04
18	1.2	-15.0	0.0	4472	.204E-04	4149	.207E-04	3882	.205E-04	.205E-04
22	1.5	60.0	0.0	4168	.188E-04	3752	.187E-04	3530	.186E-04	.187E-04
23	1.5	30.0	0.0	5185	.242E-04	4855	.243E-04	4540	.240E-04	.242E-04
24	1.5	0.0	0.0	5375	.252E-04	5064	.253E-04	4724	.250E-04	.252E-04
25	1.5	-30.0	0.0	4813	.222E-04	4457	.223E-04	4208	.222E-04	.222E-04
26	1.5	-60.0	0.0	3681	.162E-04	3263	.162E-04	3085	.163E-04	.162E-04
29	1.8	60.0	0.0	4900	.227E-04	4537	.227E-04	4254	.225E-04	.226E-04
30	1.8	30.0	0.0	5560	.262E-04	5207	.261E-04	4871	.257E-04	.260E-04
31	1.8	0.0	0.0	5818	.276E-04	5481	.275E-04	5113	.270E-04	.273E-04
32	1.8	-30.0	0.0	4849	.224E-04	4472	.223E-04	4203	.222E-04	.223E-04
33	1.8	-60.0	0.0	1055	.235E-05	503	.213E-05	500	.264E-05	.237E-05
37	2.1	60.0	0.0	5078	.236E-04	4656	.233E-04	4409	.233E-04	.234E-04
38	2.1	30.0	0.0	5711	.270E-04	5332	.267E-04	5020	.265E-04	.267E-04
39	2.1	0.0	0.0	5778	.273E-04	5409	.271E-04	5071	.268E-04	.271E-04
40	2.1	-30.0	0.0	5371	.252E-04	4969	.249E-04	4694	.248E-04	.249E-04
41	2.1	-60.0	0.0	4401	.201E-04	3976	.198E-04	3774	.199E-04	.199E-04
46	2.4	60.0	0.0	5026	.234E-04	4594	.230E-04	4361	.230E-04	.231E-04
47	2.4	30.0	0.0	5459	.257E-04	5060	.253E-04	4768	.252E-04	.254E-04
48	2.4	0.0	0.0	5653	.267E-04	5241	.262E-04	4965	.262E-04	.264E-04
49	2.4	-30.0	0.0	5303	.248E-04	4860	.243E-04	4599	.243E-04	.245E-04
50	2.4	-60.0	0.0	4404	.201E-04	3956	.197E-04	3761	.199E-04	.199E-04
57	2.7	30.0	0.0	5388	.253E-04	4963	.248E-04	4697	.248E-04	.250E-04
58	2.7	0.0	0.0	5435	.255E-04	4971	.242E-04	4688	.248E-04	.251E-04
59	2.7	-30.0	0.0	5116	.238E-04	4671	.233E-04	4415	.233E-04	.235E-04
67	3.0	45.0	0.0	5116	.238E-04	4651	.232E-04	4414	.233E-04	.235E-04
68	3.0	0.0	0.0	5258	.246E-04	4774	.239E-04	4538	.240E-04	.241E-04
69	3.0	-45.0	0.0	4703	.217E-04	4223	.211E-04	4021	.212E-04	.213E-04
76	3.3	45.0	0.0	4850	.224E-04	4359	.218E-04	4437	.234E-04	.225E-04
77	3.3	0.0	0.0	4995	.232E-04	4518	.226E-04	4279	.226E-04	.228E-04
78	3.3	-45.0	0.0	4633	.213E-04	4137	.206E-04	3943	.208E-04	.209E-04
85	3.6	45.0	0.0	4691	.216E-04	4121	.209E-04	3989	.211E-04	.212E-04
86	3.6	0.0	0.0	4720	.217E-04	4227	.211E-04	4040	.213E-04	.214E-04
87	3.6	-45.0	0.0	4417	.201E-04	3899	.194E-04	3710	.196E-04	.197E-04
95	3.9	0.0	0.0	4551	.208E-04	4037	.201E-04	4177	.221E-04	.210E-04
104	4.2	0.0	0.0	4323	.196E-04	3796	.189E-04	3714	.196E-04	.194E-04

RUN # 74

GEP+D TEST NO 17,1-15M
40%,OUT,BLER40::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S
EXIT VEL.	1.02 M/S	8.77 M/S	1.02 M/S	8.78 M/S	1.11 M/S	9.57 M/S
VOL. FLOW	.15E-03M3/S	.12E+03M3/S	.16E-03M3/S	.12E+03M3/S	.15E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.70E+03		.23E+03		.15E+03	
CALIBRATION FACTOR	.40E-02		.21E-02		.14E-02	
STACK HEIGHT	44.20 CM	132.60 M	44.20 CM	132.60 M	44.20 CM	132.60 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	760	.320E-06	215	.000E+00	225	.386E-06	.232E-06
6	.6	0.0	0.0	1089	.202E-05	497	.131E-05	557	.210E-05	.180E-05
11	.9	0.0	0.0	2073	.709E-05	1444	.601E-05	1559	.725E-05	.678E-05
17	1.2	0.0	0.0	2997	.119E-04	2404	.108E-04	2487	.120E-04	.115E-04
23	1.5	30.0	0.0	3576	.140E-04	3025	.139E-04	3081	.151E-04	.146E-04
24	1.5	0.0	0.0	3691	.154E-04	3109	.143E-04	3164	.155E-04	.151E-04
25	1.5	-30.0	0.0	3018	.120E-04	2448	.110E-04	2529	.122E-04	.117E-04
30	1.8	30.0	0.0	4235	.182E-04	3701	.172E-04	3731	.184E-04	.180E-04
31	1.8	0.0	0.0	3770	.169E-04	3424	.158E-04	3451	.170E-04	.166E-04
32	1.8	-30.0	0.0	3360	.137E-04	2800	.127E-04	2844	.139E-04	.134E-04
37	2.1	60.0	0.0	4102	.176E-04	3572	.166E-04	3560	.176E-04	.172E-04
38	2.1	30.0	0.0	4537	.198E-04	4024	.188E-04	3997	.198E-04	.195E-04
39	2.1	0.0	0.0	4165	.179E-04	3631	.169E-04	3607	.178E-04	.175E-04
40	2.1	-30.0	0.0	3519	.145E-04	2952	.135E-04	2960	.145E-04	.142E-04
41	2.1	-60.0	0.0	2628	.995E-05	2095	.924E-05	2115	.101E-04	.976E-05
46	2.4	60.0	0.0	4351	.188E-04	3829	.178E-04	3800	.188E-04	.185E-04
47	2.4	30.0	0.0	4618	.202E-04	4125	.193E-04	4076	.202E-04	.199E-04
48	2.4	0.0	0.0	4160	.179E-04	3621	.168E-04	3607	.178E-04	.175E-04
49	2.4	-30.0	0.0	1019	.166E-05	435	.101E-05	439	.149E-05	.138E-05
50	2.4	-60.0	0.0	2781	.107E-04	2252	.100E-04	2258	.109E-04	.105E-04
56	2.7	60.0	0.0	4391	.190E-04	3803	.181E-04	3824	.189E-04	.187E-04
57	2.7	30.0	0.0	4530	.198E-04	4025	.188E-04	3966	.196E-04	.194E-04
58	2.7	0.0	0.0	4266	.184E-04	3755	.175E-04	3698	.183E-04	.180E-04
59	2.7	-30.0	0.0	3640	.152E-04	3124	.143E-04	3084	.151E-04	.149E-04
60	2.7	-60.0	0.0	2973	.117E-04	2460	.111E-04	2442	.118E-04	.115E-04
66	3.0	90.0	0.0	3855	.163E-04	3349	.155E-04	3298	.162E-04	.160E-04
67	3.0	45.0	0.0	4364	.189E-04	3873	.181E-04	3802	.188E-04	.186E-04
68	3.0	0.0	0.0	4197	.180E-04	3681	.171E-04	3621	.179E-04	.177E-04
69	3.0	-45.0	0.0	3414	.140E-04	2910	.133E-04	2854	.139E-04	.137E-04
70	3.0	-90.0	0.0	2380	.867E-05	1864	.810E-05	1863	.882E-05	.852E-05
76	3.3	45.0	0.0	4239	.183E-04	3735	.174E-04	3659	.181E-04	.179E-04
77	3.3	0.0	0.0	4055	.173E-04	3538	.164E-04	3484	.172E-04	.170E-04
78	3.3	-45.0	0.0	3349	.137E-04	2851	.130E-04	2795	.136E-04	.134E-04
85	3.6	45.0	0.0	4121	.177E-04	3615	.168E-04	3552	.175E-04	.173E-04
86	3.6	0.0	0.0	3989	.170E-04	3464	.160E-04	3401	.167E-04	.166E-04
87	3.6	-45.0	0.0	3214	.130E-04	2693	.122E-04	2640	.128E-04	.127E-04
94	3.9	45.0	0.0	3954	.160E-04	3444	.159E-04	3369	.166E-04	.164E-04
95	3.9	0.0	0.0	3712	.155E-04	3206	.148E-04	3141	.154E-04	.152E-04
96	3.9	-45.0	0.0	3098	.124E-04	2587	.117E-04	2527	.122E-04	.121E-04
104	4.2	0.0	0.0	3562	.148E-04	3055	.140E-04	2984	.146E-04	.144E-04
113	4.5	0.0	0.0	3451	.142E-04	2940	.134E-04	2871	.140E-04	.139E-04

RUN # 75

GEP:D TEST NO.13;1-15M
100%;OUT;BLER41:::18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.11E+04		.50E+03		.51E+03	
CALIBRATION FACTOR	.40E-02		.21E-02		.14E-02	
STACK HEIGHT	44.20 CM	132.60 M	44.20 CM	132.60 M	44.20 CM	132.60 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	1144	.118E-06	549	.104E-06	547	.874E-07	.103E-06
6	.6	0.0	0.0	1186	.212E-06	605	.223E-06	603	.213E-06	.216E-06
11	.9	0.0	0.0	1388	.669E-06	811	.660E-06	863	.796E-06	.708E-06
17	1.2	0.0	0.0	1939	.191E-05	1414	.194E-05	1476	.217E-05	.201E-05
24	1.5	0.0	0.0	2367	.288E-05	1826	.282E-05	1912	.315E-05	.295E-05
31	1.8	0.0	0.0	2786	.383E-05	2218	.365E-05	2315	.405E-05	.384E-05
38	2.1	30.0	0.0	3391	.520E-05	2889	.507E-05	2920	.541E-05	.522E-05
39	2.1	0.0	0.0	3095	.453E-05	2535	.432E-05	2604	.470E-05	.451E-05
40	2.1	-30.0	0.0	2621	.346E-05	1986	.316E-05	2094	.355E-05	.338E-05
47	2.4	30.0	0.0	3547	.555E-05	3059	.543E-05	3064	.573E-05	.557E-05
48	2.4	0.0	0.0	3425	.527E-05	2854	.500E-05	2897	.535E-05	.520E-05
49	2.4	-30.0	0.0	2857	.399E-05	2187	.358E-05	2318	.406E-05	.387E-05
57	2.7	30.0	0.0	3808	.614E-05	3295	.594E-05	3278	.621E-05	.609E-05
58	2.7	0.0	0.0	3521	.549E-05	2917	.513E-05	2959	.549E-05	.537E-05
59	2.7	-30.0	0.0	3065	.446E-05	2403	.404E-05	2499	.446E-05	.432E-05
66	3.0	90.0	0.0	3566	.559E-05	3008	.550E-05	3033	.566E-05	.558E-05
67	3.0	45.0	0.0	3896	.634E-05	3382	.612E-05	3342	.635E-05	.627E-05
69	3.0	-45.0	0.0	3092	.452E-05	2348	.392E-05	2468	.439E-05	.427E-05
70	3.0	-90.0	0.0	2395	.294E-05	1666	.240E-05	1783	.286E-05	.275E-05
75	3.3	90.0	0.0	3671	.583E-05	3174	.568E-05	3088	.578E-05	.576E-05
76	3.3	45.0	0.0	4057	.670E-05	3544	.646E-05	3462	.662E-05	.659E-05
77	3.3	0.0	0.0	3767	.605E-05	3125	.557E-05	3161	.595E-05	.585E-05
78	3.3	-45.0	0.0	3297	.498E-05	2542	.434E-05	2644	.479E-05	.470E-05
79	3.3	-90.0	0.0	2617	.345E-05	1086	.294E-05	1980	.330E-05	.322E-05
84	3.6	90.0	0.0	3919	.639E-05	3422	.621E-05	3315	.629E-05	.629E-05
85	3.6	45.0	0.0	4119	.684E-05	3587	.656E-05	3526	.676E-05	.672E-05
86	3.6	0.0	0.0	3980	.653E-05	3292	.593E-05	3307	.627E-05	.624E-05
87	3.6	-45.0	0.0	3399	.521E-05	2615	.449E-05	2697	.491E-05	.486E-05
88	3.6	-90.0	0.0	2833	.393E-05	2082	.336E-05	2166	.372E-05	.366E-05
93	3.9	90.0	0.0	3857	.625E-05	3353	.606E-05	3264	.618E-05	.616E-05
94	3.9	45.0	0.0	4211	.705E-05	3634	.666E-05	3556	.683E-05	.684E-05
95	3.9	0.0	0.0	3960	.648E-05	3270	.588E-05	3306	.627E-05	.621E-05
96	3.9	-45.0	0.0	3535	.552E-05	2752	.478E-05	2808	.516E-05	.515E-05
97	3.9	-90.0	0.0	2984	.428E-05	2221	.365E-05	2284	.398E-05	.396E-05
103	4.2	45.0	0.0	4300	.725E-05	3701	.680E-05	3641	.702E-05	.702E-05
104	4.2	0.0	0.0	4048	.668E-05	3341	.603E-05	3369	.641E-05	.637E-05
105	4.2	-45.0	0.0	3629	.573E-05	2861	.501E-05	2914	.539E-05	.537E-05
112	4.5	45.0	0.0	4331	.732E-05	3722	.684E-05	3650	.704E-05	.706E-05
113	4.5	0.0	0.0	4155	.692E-05	3420	.620E-05	3430	.655E-05	.655E-05
114	4.5	-45.0	0.0	3701	.590E-05	2910	.512E-05	3211	.606E-05	.568E-05

RUN # 76

GEP1D TEST NO.11, 1-15M
100%,IN,BLER42::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S	1.77 M/S	15.26 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.89E+03		.29E+03		.30E+03	
CALIBRATION FACTOR	.40E-02		.21E-02		.14E-02	
STACK HEIGHT	44.20 CM	132.60 M	44.20 CM	132.60 M	44.20 CM	132.60 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	976	.192E-06	309	.206E-06	384	.191E-06	.196E-06
6	.6	0.0	0.0	1163	.614E-06	651	.762E-06	627	.735E-06	.705E-06
11	.9	0.0	0.0	1779	.201E-05	1453	.247E-05	1316	.220E-05	.225E-05
17	1.2	0.0	0.0	2596	.385E-05	2455	.459E-05	2200	.426E-05	.424E-05
24	1.5	0.0	0.0	3480	.585E-05	3409	.662E-05	3062	.619E-05	.623E-05
30	1.8	30.0	0.0	4137	.733E-05	4093	.807E-05	3686	.759E-05	.767E-05
31	1.8	0.0	0.0	4107	.726E-05	4002	.788E-05	3635	.748E-05	.755E-05
32	1.8	-30.0	0.0	3807	.659E-05	3522	.686E-05	3287	.670E-05	.672E-05
38	2.1	30.0	0.0	4907	.907E-05	4090	.976E-05	4373	.913E-05	.933E-05
39	2.1	0.0	0.0	4716	.864E-05	4558	.906E-05	4175	.869E-05	.880E-05
40	2.1	-30.0	0.0	4187	.744E-05	3886	.763E-05	3625	.745E-05	.751E-05
47	2.4	30.0	0.0	5407	.102E-04	5291	.106E-04	4807	.101E-04	.103E-04
48	2.4	0.0	0.0	5228	.980E-05	5031	.101E-04	4620	.969E-05	.985E-05
49	2.4	-30.0	0.0	4460	.806E-05	4123	.814E-05	3866	.800E-05	.807E-05
56	2.7	60.0	0.0	5399	.102E-04	5268	.106E-04	4765	.100E-04	.103E-04
57	2.7	30.0	0.0	5676	.108E-04	5543	.112E-04	5042	.106E-04	.109E-04
58	2.7	0.0	0.0	5017	.932E-05	4727	.942E-05	4375	.914E-05	.929E-05
59	2.7	-30.0	0.0	1191	.678E-06	607	.669E-06	572	.612E-06	.653E-06
60	2.7	-60.0	0.0	3733	.642E-05	3252	.629E-05	3086	.625E-05	.632E-05
67	3.0	45.0	0.0	5750	.110E-04	5572	.112E-04	5057	.107E-04	.110E-04
68	3.0	0.0	0.0	5524	.105E-04	5226	.105E-04	4842	.102E-04	.104E-04
69	3.0	-45.0	0.0	4316	.774E-05	3849	.755E-05	3660	.753E-05	.761E-05
70	3.0	-90.0	0.0	2299	.476E-05	2471	.463E-05	2308	.468E-05	.469E-05
75	3.3	90.0	0.0	5282	.992E-05	5053	.101E-04	4564	.956E-05	.987E-05
76	3.3	45.0	0.0	5846	.112E-04	5610	.113E-04	5122	.108E-04	.111E-04
77	3.3	0.0	0.0	5524	.105E-04	5174	.104E-04	4787	.101E-04	.103E-04
78	3.3	-45.0	0.0	4328	.776E-05	3833	.752E-05	3647	.750E-05	.759E-05
79	3.3	-90.0	0.0	3117	.503E-05	2550	.480E-05	2469	.486E-05	.489E-05
84	3.6	90.0	0.0	5350	.101E-04	5105	.102E-04	4655	.976E-05	.100E-04
85	3.6	45.0	0.0	5824	.111E-04	5545	.112E-04	5094	.107E-04	.110E-04
86	3.6	0.0	0.0	5400	.102E-04	5037	.101E-04	4655	.976E-05	.100E-04
87	3.6	-45.0	0.0	4376	.787E-05	3858	.757E-05	3673	.756E-05	.767E-05
88	3.6	-90.0	0.0	3268	.537E-05	2679	.507E-05	2587	.513E-05	.519E-05
94	3.9	45.0	0.0	5811	.111E-04	5485	.110E-04	5024	.106E-04	.109E-04
95	3.9	0.0	0.0	5339	.100E-04	4948	.989E-05	4600	.964E-05	.986E-05
96	3.9	-45.0	0.0	4333	.777E-05	3793	.744E-05	3617	.744E-05	.755E-05
103	4.2	45.0	0.0	5790	.111E-04	5414	.109E-04	4986	.105E-04	.108E-04
104	4.2	0.0	0.0	5327	.100E-04	4881	.975E-05	4557	.954E-05	.977E-05
105	4.2	-45.0	0.0	4376	.787E-05	3836	.753E-05	3632	.747E-05	.762E-05
113	4.5	0.0	0.0	5243	.983E-05	4786	.954E-05	4456	.932E-05	.956E-05

RUN # 77

GEP!3D TEST NO.7,1-16M
100%,IN,BLER43!!10,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.03 M/S	15.74 M/S	1.03 M/S	15.74 M/S	1.03 M/S	15.74 M/S
EXIT VEL.	2.32 M/S	17.98 M/S	2.36 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.90E+03		.38E+03		.20E+03	
CALIBRATION FACTOR	.40E-02		.21E-02		.15E-02	
SO2 FLUX		.050E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	54.40 CM	163.20 M	54.40 CM	163.20 M	54.40 CM	163.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	1080	.123E-04	409	.442E-05	384	.326E-05	.200E-04
5	.6	0.0	0.0	1087	.132E-04	433	.796E-05	413	.421E-05	.254E-04
11	.9	0.0	0.0	1143	.203E-04	580	.296E-04	598	.102E-04	.602E-04
17	1.2	0.0	0.0	1382	.506E-04	1021	.947E-04	1040	.247E-04	.170E-03
24	1.5	0.0	0.0	1658	.856E-04	1548	.172E-03	1549	.413E-04	.299E-03
31	1.8	0.0	0.0	1927	.120E-03	1976	.235E-03	1960	.547E-04	.410E-03
39	2.1	0.0	0.0	2228	.158E-03	2442	.304E-03	2411	.694E-04	.532E-03
47	2.4	30.0	0.0	2384	.178E-03	2705	.355E-03	2718	.794E-04	.612E-03
48	2.4	0.0	0.0	2395	.179E-03	2816	.359E-03	2732	.798E-04	.618E-03
49	2.4	-30.0	0.0	2170	.151E-03	2379	.295E-03	2333	.668E-04	.512E-03
57	2.7	30.0	0.0	2513	.194E-03	3101	.401E-03	3080	.912E-04	.687E-03
58	2.7	0.0	0.0	2514	.194E-03	2960	.381E-03	2869	.843E-04	.659E-03
59	2.7	-30.0	0.0	2334	.171E-03	2696	.342E-03	2613	.759E-04	.589E-03
67	3.0	45.0	0.0	2674	.215E-03	2438	.304E-03	3280	.977E-04	.616E-03
68	3.0	0.0	0.0	2607	.206E-03	3257	.424E-03	3140	.931E-04	.724E-03
69	3.0	-45.0	0.0	2299	.167E-03	2668	.338E-03	2580	.749E-04	.579E-03
76	3.3	45.0	0.0	2691	.217E-03	3292	.430E-03	3129	.928E-04	.739E-03
77	3.3	0.0	0.0	2631	.209E-03	3350	.438E-03	3228	.960E-04	.743E-03
78	3.3	-45.0	0.0	2377	.177E-03	2810	.358E-03	2719	.794E-04	.615E-03
85	3.6	45.0	0.0	2831	.234E-03	3670	.485E-03	3491	.105E-03	.824E-03
86	3.6	0.0	0.0	2678	.215E-03	3410	.447E-03	3288	.980E-04	.760E-03
87	3.6	-45.0	0.0	2422	.183E-03	2804	.358E-03	2725	.796E-04	.620E-03
93	3.9	90.0	0.0	2762	.226E-03	3430	.450E-03	3201	.951E-04	.771E-03
94	3.9	45.0	0.0	2959	.251E-03	3803	.505E-03	3598	.108E-03	.864E-03
95	3.9	0.0	0.0	2758	.225E-03	3457	.454E-03	3318	.989E-04	.778E-03
96	3.9	-45.0	0.0	2500	.192E-03	2902	.372E-03	2817	.826E-04	.647E-03
97	3.9	-90.0	0.0	2027	.132E-03	2086	.252E-03	2029	.569E-04	.441E-03
103	4.2	45.0	0.0	3044	.261E-03	3844	.511E-03	3612	.109E-03	.881E-03
104	4.2	0.0	0.0	2798	.230E-03	3501	.460E-03	3358	.100E-03	.791E-03
105	4.2	-45.0	0.0	2557	.200E-03	2925	.375E-03	2835	.832E-04	.658E-03
106	4.2	-90.0	0.0	2153	.148E-03	2266	.278E-03	2220	.631E-04	.490E-03
111	4.5	90.0	0.0	2781	.228E-03	3511	.462E-03	3284	.978E-04	.788E-03
112	4.5	45.0	0.0	3015	.258E-03	3867	.514E-03	3626	.109E-03	.881E-03
113	4.5	0.0	0.0	2886	.241E-03	3563	.470E-03	3395	.101E-03	.812E-03
114	4.5	-45.0	0.0	2659	.213E-03	2986	.384E-03	2885	.848E-04	.682E-03
115	4.5	-90.0	0.0	2206	.155E-03	2354	.291E-03	2290	.654E-04	.512E-03
120	4.8	90.0	0.0	2952	.250E-03	3520	.463E-03	3272	.974E-04	.810E-03
122	4.8	0.0	0.0	3025	.259E-03	3540	.466E-03	3357	.100E-03	.825E-03
123	4.8	-45.0	0.0	2749	.224E-03	3031	.391E-03	2925	.861E-04	.701E-03
124	4.8	-90.0	0.0	2317	.169E-03	2349	.290E-03	2279	.651E-04	.525E-03

RUN # 78

GEP+3D TEST NO.7,1-16M
100%OUT,BLER44::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.83 M/S	15.74 M/S	1.83 M/S	15.74 M/S	1.83 M/S	15.74 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.98E+03		.34E+03		.35E+03	
CALIBRATION FACTOR	.40E-02		.21E-02		.15E-02	
STACK HEIGHT	54.36 CM	163.08 M	54.36 CM	163.08 M	54.36 CM	163.08 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
6	.6	0.0	0.0	975	.000E+00	359	.421E-07	380	.795E-07	.407E-07
11	.9	0.0	0.0	983	.707E-08	376	.797E-07	391	.105E-06	.645E-07
17	1.2	0.0	0.0	1128	.349E-06	505	.365E-06	560	.500E-06	.404E-06
31	1.8	0.0	0.0	1508	.124E-05	895	.123E-05	995	.152E-05	.133E-05
39	2.1	0.0	0.0	1740	.179E-05	1137	.177E-05	1235	.208E-05	.188E-05
47	2.4	30.0	0.0	2012	.243E-05	1415	.238E-05	1495	.269E-05	.250E-05
48	2.4	0.0	0.0	1995	.239E-05	1368	.228E-05	1475	.264E-05	.243E-05
49	2.4	-30.0	0.0	1804	.194E-05	1175	.185E-05	1297	.222E-05	.200E-05
57	2.7	30.0	0.0	2153	.276E-05	1562	.271E-05	1644	.303E-05	.283E-05
58	2.7	0.0	0.0	2107	.266E-05	1470	.250E-05	1597	.292E-05	.269E-05
59	2.7	-30.0	0.0	2068	.256E-05	1419	.239E-05	1558	.283E-05	.259E-05
67	3.0	45.0	0.0	2238	.297E-05	1662	.293E-05	1738	.325E-05	.305E-05
68	3.0	0.0	0.0	2476	.353E-05	1700	.301E-05	1826	.346E-05	.333E-05
69	3.0	-45.0	0.0	2102	.264E-05	1456	.247E-05	1576	.288E-05	.266E-05
76	3.3	45.0	0.0	1942	.227E-05	1356	.225E-05	1415	.250E-05	.234E-05
77	3.3	0.0	0.0	2507	.360E-05	1867	.338E-05	1976	.381E-05	.359E-05
78	3.3	-45.0	0.0	2329	.318E-05	1790	.321E-05	1767	.332E-05	.324E-05
85	3.6	45.0	0.0	2508	.360E-05	1905	.347E-05	1975	.381E-05	.362E-05
86	3.6	0.0	0.0	2575	.376E-05	1934	.353E-05	2039	.396E-05	.375E-05
87	3.6	-45.0	0.0	2467	.350E-05	1784	.320E-05	1876	.358E-05	.342E-05
93	3.9	90.0	0.0	2274	.305E-05	1727	.307E-05	1708	.318E-05	.310E-05
94	3.9	45.0	0.0	2830	.436E-05	1998	.367E-05	2092	.408E-05	.403E-05
95	3.9	0.0	0.0	2757	.419E-05	2094	.388E-05	2196	.432E-05	.413E-05
96	3.9	-45.0	0.0	2606	.383E-05	1934	.353E-05	2023	.392E-05	.376E-05
97	3.9	-90.0	0.0	2269	.304E-05	1567	.272E-05	1638	.302E-05	.292E-05
102	4.2	90.0	0.0	2266	.303E-05	1744	.311E-05	1727	.323E-05	.312E-05
103	4.2	45.0	0.0	2701	.406E-05	2106	.391E-05	2120	.415E-05	.404E-05
104	4.2	0.0	0.0	2826	.435E-05	2188	.409E-05	2277	.451E-05	.431E-05
105	4.2	-45.0	0.0	2709	.408E-05	2029	.374E-05	2088	.407E-05	.396E-05
106	4.2	-90.0	0.0	2364	.326E-05	1673	.295E-05	1739	.326E-05	.315E-05
111	4.5	90.0	0.0	2391	.333E-05	1854	.335E-05	1822	.345E-05	.338E-05
112	4.5	45.0	0.0	2815	.432E-05	2206	.413E-05	2223	.439E-05	.428E-05
113	4.5	0.0	0.0	2983	.472E-05	2319	.438E-05	2370	.473E-05	.461E-05
114	4.5	-45.0	0.0	2776	.423E-05	2102	.390E-05	2159	.424E-05	.412E-05
115	4.5	-90.0	0.0	2542	.368E-05	1836	.331E-05	1879	.358E-05	.352E-05
120	4.8	90.0	0.0	2507	.360E-05	1985	.364E-05	1922	.368E-05	.364E-05
121	4.8	45.0	0.0	2895	.451E-05	2302	.435E-05	2270	.450E-05	.445E-05
122	4.9	0.0	0.0	3020	.481E-05	2351	.445E-05	2387	.477E-05	.467E-05
123	4.8	-45.0	0.0	2867	.445E-05	2183	.408E-05	2210	.436E-05	.429E-05
124	4.8	-90.0	0.0	2356	.324E-05	1741	.310E-05	1680	.312E-05	.315E-05

RUN # 22

DEP TEST NO.N1; 1-16M
100%;IN;BLER45;;18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.08 M/S	9.29 M/S	1.08 M/S	9.29 M/S	1.00 M/S	9.29 M/S
EXIT VEL.	2.32 M/S	12.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.62E+03		.12E+03		.13E+03	
CALIBRATION FACTOR	.40E-02		.21E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	704	.264E-07	143	.301E-07	146	.221E-07	.263E-07
6	.6	0.0	0.0	720	.487E-07	237	.153E-06	184	.745E-07	.933E-07
11	.9	0.0	0.0	785	.139E-06	462	.447E-06	289	.219E-06	.272E-06
17	1.2	0.0	0.0	917	.323E-06	904	.103E-05	488	.494E-06	.623E-06
30	1.8	30.0	0.0	1286	.836E-06	1678	.204E-05	887	.105E-05	.132E-05
31	1.8	0.0	0.0	1285	.835E-06	1675	.203E-05	927	.110E-05	.134E-05
32	1.8	-30.0	0.0	1266	.800E-06	1506	.181E-05	915	.100E-05	.125E-05
38	2.1	30.0	0.0	1454	.107E-05	1937	.237E-05	1060	.128E-05	.159E-05
39	2.1	0.0	0.0	1480	.111E-05	1941	.239E-05	1107	.135E-05	.163E-05
40	2.1	-30.0	0.0	1357	.935E-06	1595	.193E-05	978	.117E-05	.136E-05
47	2.4	30.0	0.0	1641	.133E-05	2141	.264E-05	1237	.153E-05	.185E-05
48	2.4	0.0	0.0	1595	.127E-05	2037	.251E-05	1198	.147E-05	.176E-05
49	2.4	-30.0	0.0	1508	.114E-05	1820	.222E-05	1141	.139E-05	.160E-05
56	2.7	60.0	0.0	1667	.137E-05	2014	.248E-05	1211	.149E-05	.179E-05
57	2.7	30.0	0.0	1712	.143E-05	2145	.265E-05	1294	.161E-05	.191E-05
58	2.7	0.0	0.0	1492	.112E-05	1775	.216E-05	1081	.131E-05	.155E-05
59	2.7	-30.0	0.0	1631	.132E-05	1932	.237E-05	1233	.152E-05	.175E-05
60	2.7	-60.0	0.0	1419	.102E-05	1494	.180E-05	1018	.122E-05	.136E-05
66	3.0	90.0	0.0	1523	.117E-05	1728	.210E-05	1062	.129E-05	.153E-05
67	3.0	45.0	0.0	1873	.165E-05	2326	.289E-05	1433	.180E-05	.213E-05
68	3.0	0.0	0.0	1870	.165E-05	2286	.283E-05	1439	.181E-05	.211E-05
69	3.0	-45.0	0.0	1594	.126E-05	1776	.216E-05	1109	.146E-05	.164E-05
70	3.0	-90.0	0.0	1341	.912E-06	1164	.136E-05	907	.107E-05	.112E-05
75	3.3	90.0	0.0	1541	.119E-05	1722	.209E-05	1077	.131E-05	.154E-05
76	3.3	45.0	0.0	1940	.175E-05	2354	.292E-05	1477	.186E-05	.219E-05
77	3.3	0.0	0.0	1969	.179E-05	2350	.291E-05	1531	.193E-05	.223E-05
78	3.3	-45.0	0.0	1686	.139E-05	1842	.225E-05	1264	.156E-05	.175E-05
79	3.3	-90.0	0.0	1449	.106E-05	1233	.145E-05	982	.118E-05	.124E-05
84	3.6	90.0	0.0	1708	.142E-05	1918	.235E-05	1228	.151E-05	.177E-05
85	3.6	45.0	0.0	2000	.183E-05	2383	.296E-05	1541	.195E-05	.226E-05
86	3.6	0.0	0.0	2066	.192E-05	2445	.304E-05	1600	.203E-05	.234E-05
87	3.6	-45.0	0.0	1814	.157E-05	1921	.235E-05	1364	.170E-05	.189E-05
88	3.6	-90.0	0.0	1508	.114E-05	1234	.146E-05	1023	.123E-05	.128E-05
94	3.9	45.0	0.0	2120	.200E-05	2470	.307E-05	1638	.208E-05	.240E-05
95	3.9	0.0	0.0	2185	.209E-05	2539	.316E-05	1698	.216E-05	.248E-05
104	4.2	0.0	0.0	2273	.221E-05	2565	.320E-05	1778	.227E-05	.259E-05
105	4.2	-45.0	0.0	1985	.181E-05	2022	.249E-05	1492	.188E-05	.207E-05
113	4.5	0.0	0.0	2318	.227E-05	2569	.320E-05	1823	.234E-05	.261E-05

RUN # 80

GEP TEST NO.N2,1-16M
100%,IN,BLER46::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	12.58 M/S	1.46 M/S	12.58 M/S	1.46 M/S	12.58 M/S
EXIT VEL.	2.32 M/S	17.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.56E+03		.15E+03		.50E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	601	.901E-07	117	.000E+00	0	.000E+00	.293E-07
6	.6	0.0	0.0	706	.296E-06	658	.935E-06	270	.427E-06	.560E-06
11	.9	0.0	0.0	1174	.121E-05	1938	.329E-05	819	.149E-05	.202E-05
17	1.2	0.0	0.0	1821	.240E-05	3246	.570E-05	1545	.290E-05	.373E-05
30	1.8	30.0	0.0	3199	.518E-05	4882	.871E-05	2860	.546E-05	.649E-05
32	1.8	-30.0	0.0	2976	.474E-05	4408	.784E-05	2679	.511E-05	.593E-05
38	2.1	30.0	0.0	3809	.637E-05	5418	.970E-05	3395	.650E-05	.757E-05
39	2.1	0.0	0.0	3789	.633E-05	5404	.967E-05	3414	.653E-05	.756E-05
40	2.1	-30.0	0.0	3555	.588E-05	4953	.884E-05	3182	.608E-05	.697E-05
46	2.4	60.0	0.0	3437	.565E-05	4618	.822E-05	2948	.563E-05	.653E-05
47	2.4	30.0	0.0	4096	.694E-05	5488	.983E-05	3627	.695E-05	.794E-05
48	2.4	0.0	0.0	4131	.700E-05	5596	.100E-04	3717	.712E-05	.809E-05
49	2.4	-30.0	0.0	3764	.629E-05	4992	.891E-05	3371	.645E-05	.725E-05
50	2.4	-60.0	0.0	3058	.490E-05	3956	.701E-05	2667	.500E-05	.569E-05
56	2.7	60.0	0.0	3286	.535E-05	4121	.731E-05	2759	.526E-05	.600E-05
57	2.7	30.0	0.0	4270	.728E-05	5458	.977E-05	3742	.717E-05	.811E-05
58	2.7	0.0	0.0	4393	.752E-05	5691	.102E-04	3871	.742E-05	.841E-05
59	2.7	-30.0	0.0	3854	.646E-05	4933	.880E-05	3408	.652E-05	.729E-05
60	2.7	-60.0	0.0	3238	.526E-05	3956	.701E-05	2788	.532E-05	.588E-05
66	3.0	90.0	0.0	3359	.549E-05	4096	.726E-05	2775	.529E-05	.604E-05
67	3.0	45.0	0.0	4328	.739E-05	5353	.958E-05	3730	.715E-05	.807E-05
68	3.0	0.0	0.0	4306	.735E-05	5399	.966E-05	3789	.726E-05	.812E-05
69	3.0	-45.0	0.0	3780	.632E-05	4538	.808E-05	3264	.624E-05	.690E-05
70	3.0	-90.0	0.0	2951	.469E-05	3316	.583E-05	2480	.472E-05	.509E-05
75	3.3	90.0	0.0	3504	.578E-05	4160	.738E-05	2881	.550E-05	.624E-05
76	3.3	45.0	0.0	858	.594E-06	515	.672E-06	398	.676E-06	.648E-06
77	3.3	0.0	0.0	4370	.747E-05	5269	.942E-05	3790	.727E-05	.808E-05
78	3.3	-45.0	0.0	3906	.656E-05	4487	.798E-05	3344	.640E-05	.700E-05
79	3.3	-90.0	0.0	3008	.480E-05	3215	.564E-05	2452	.467E-05	.505E-05
85	3.6	45.0	0.0	4467	.766E-05	5264	.941E-05	3812	.731E-05	.815E-05
86	3.6	0.0	0.0	3564	.589E-05	4043	.717E-05	2960	.565E-05	.626E-05
87	3.6	-45.0	0.0	3889	.653E-05	4339	.771E-05	3306	.633E-05	.687E-05
94	3.9	45.0	0.0	4553	.783E-05	5264	.941E-05	3882	.744E-05	.825E-05
95	3.9	0.0	0.0	4475	.768E-05	5062	.904E-05	3830	.734E-05	.804E-05
96	3.9	-45.0	0.0	3956	.666E-05	4286	.761E-05	3329	.637E-05	.690E-05
103	4.2	45.0	0.0	4485	.770E-05	5078	.907E-05	3795	.728E-05	.803E-05
104	4.2	0.0	0.0	4477	.768E-05	4958	.885E-05	3818	.732E-05	.797E-05
105	4.2	-45.0	0.0	4003	.675E-05	4259	.756E-05	3351	.641E-05	.692E-05
113	4.5	0.0	0.0	4488	.770E-05	4856	.866E-05	3798	.728E-05	.790E-05
122	4.8	0.0	0.0	4358	.745E-05	4614	.822E-05	3637	.697E-05	.756E-05

RUN # 81

GEP TEST NO.N5,1-16M
100%,IN,BLER47::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.01 M/S	17.30 M/S	2.01 M/S	17.30 M/S	2.01 M/S	17.30 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.80E+03		.29E+03		.29E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	920	.316E-06	509	.545E-06	405	.300E-06	.390E-06
6	.6	0.0	0.0	1483	.183E-05	2057	.447E-05	994	.187E-05	.276E-05
11	.9	0.0	0.0	3406	.702E-05	5113	.122E-04	2844	.682E-05	.875E-05
17	1.2	0.0	0.0	5154	.117E-04	7115	.173E-04	4457	.111E-04	.135E-04
30	1.8	30.0	0.0	7682	.186E-04	9558	.235E-04	6698	.171E-04	.198E-04
31	1.8	0.0	0.0	7322	.176E-04	8959	.220E-04	6398	.163E-04	.187E-04
32	1.8	-30.0	0.0	6263	.147E-04	7407	.180E-04	5436	.138E-04	.155E-04
38	2.1	30.0	0.0	8187	.199E-04	9683	.238E-04	7157	.184E-04	.207E-04
39	2.1	0.0	0.0	7726	.187E-04	9045	.222E-04	6759	.173E-04	.194E-04
40	2.1	-30.0	0.0	6740	.160E-04	7614	.185E-04	5837	.148E-04	.165E-04
46	2.4	60.0	0.0	7627	.184E-04	8755	.214E-04	6587	.168E-04	.189E-04
47	2.4	30.0	0.0	8125	.197E-04	9312	.229E-04	7058	.181E-04	.203E-04
48	2.4	0.0	0.0	7750	.187E-04	8769	.215E-04	6768	.173E-04	.192E-04
49	2.4	-30.0	0.0	6565	.155E-04	7203	.175E-04	5661	.144E-04	.158E-04
50	2.4	-60.0	0.0	5164	.118E-04	5467	.131E-04	4362	.109E-04	.119E-04
56	2.7	60.0	0.0	6665	.158E-04	7347	.179E-04	5703	.145E-04	.161E-04
57	2.7	30.0	0.0	8001	.194E-04	8868	.217E-04	6957	.178E-04	.197E-04
58	2.7	0.0	0.0	7742	.187E-04	8446	.207E-04	6691	.171E-04	.189E-04
59	2.7	-30.0	0.0	6527	.154E-04	6937	.168E-04	5600	.142E-04	.155E-04
60	2.7	-60.0	0.0	5138	.117E-04	5322	.127E-04	4322	.108E-04	.118E-04
66	3.0	90.0	0.0	6752	.160E-04	7355	.179E-04	5727	.145E-04	.162E-04
67	3.0	45.0	0.0	7792	.188E-04	8461	.207E-04	6708	.172E-04	.189E-04
68	3.0	0.0	0.0	7580	.183E-04	8052	.197E-04	6553	.167E-04	.183E-04
69	3.0	-45.0	0.0	5896	.137E-04	6048	.146E-04	5011	.126E-04	.137E-04
75	3.3	90.0	0.0	6707	.159E-04	7172	.174E-04	5659	.144E-04	.159E-04
76	3.3	45.0	0.0	7511	.181E-04	8006	.195E-04	6406	.163E-04	.180E-04
77	3.3	0.0	0.0	7381	.177E-04	7705	.188E-04	6374	.163E-04	.176E-04
78	3.3	-45.0	0.0	5765	.134E-04	5885	.142E-04	4916	.124E-04	.133E-04
79	3.3	-90.0	0.0	4119	.894E-05	3973	.932E-05	3375	.824E-05	.884E-05
85	3.6	45.0	0.0	7336	.176E-04	7714	.188E-04	6281	.160E-04	.175E-04
86	3.6	0.0	0.0	6989	.167E-04	7206	.175E-04	6010	.153E-04	.165E-04
87	3.6	-45.0	0.0	5605	.129E-04	5588	.134E-04	4710	.118E-04	.127E-04
94	3.9	45.0	0.0	7197	.172E-04	7462	.182E-04	6128	.156E-04	.170E-04
95	3.9	0.0	0.0	6757	.161E-04	6844	.166E-04	5772	.147E-04	.158E-04
96	3.9	-45.0	0.0	5454	.125E-04	5351	.128E-04	4607	.115E-04	.123E-04
103	4.2	45.0	0.0	6833	.163E-04	7000	.170E-04	5837	.148E-04	.160E-04
104	4.2	0.0	0.0	6618	.157E-04	6615	.160E-04	5611	.142E-04	.153E-04
105	4.2	-45.0	0.0	5448	.125E-04	5242	.125E-04	4560	.114E-04	.122E-04
113	4.5	0.0	0.0	6414	.151E-04	6325	.153E-04	5415	.137E-04	.147E-04
122	4.8	0.0	0.0	6050	.141E-04	5802	.140E-04	4978	.125E-04	.136E-04

RUN # 82

GEP TEST NO.N3,1-16M
100%,IN,BLER48::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.15 M/S	9.89 M/S	1.15 M/S	9.89 M/S	1.15 M/S	9.89 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.64E+03		.98E+02		.90E+02	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
6	.6	0.0	0.0	642	.000E+00	150	.762E-07	0	.000E+00	.264E-07
11	.9	0.0	0.0	729	.134E-06	490	.575E-06	195	.162E-06	.296E-06
17	1.2	0.0	0.0	877	.365E-06	895	.117E-05	380	.447E-06	.671E-06
31	1.8	0.0	0.0	1356	.111E-05	1912	.266E-05	897	.125E-05	.169E-05
38	2.1	30.0	0.0	1465	.128E-05	2149	.301E-05	1011	.142E-05	.193E-05
39	2.1	0.0	0.0	1524	.137E-05	2217	.311E-05	1095	.155E-05	.203E-05
40	2.1	-30.0	0.0	1374	.114E-05	1822	.253E-05	922	.129E-05	.167E-05
48	2.4	0.0	0.0	1665	.159E-05	2510	.354E-05	1247	.179E-05	.233E-05
49	2.4	-30.0	0.0	1529	.130E-05	2033	.284E-05	1089	.155E-05	.194E-05
56	2.7	60.0	0.0	1585	.147E-05	2121	.297E-05	1100	.156E-05	.202E-05
57	2.7	30.0	0.0	1719	.160E-05	2387	.336E-05	1271	.183E-05	.231E-05
58	2.7	0.0	0.0	1753	.173E-05	2511	.354E-05	1299	.187E-05	.240E-05
59	2.7	-30.0	0.0	1669	.160E-05	2160	.302E-05	1196	.171E-05	.213E-05
60	2.7	-60.0	0.0	1376	.114E-05	1446	.198E-05	901	.125E-05	.147E-05
66	3.0	90.0	0.0	1385	.116E-05	1612	.222E-05	867	.120E-05	.154E-05
67	3.0	45.0	0.0	1739	.171E-05	2352	.330E-05	1254	.180E-05	.229E-05
68	3.0	0.0	0.0	1852	.189E-05	2538	.358E-05	1381	.200E-05	.251E-05
69	3.0	-45.0	0.0	1659	.158E-05	1955	.272E-05	1184	.169E-05	.201E-05
70	3.0	-90.0	0.0	1355	.111E-05	1176	.158E-05	860	.119E-05	.130E-05
75	3.3	90.0	0.0	1430	.123E-05	1620	.223E-05	923	.129E-05	.160E-05
76	3.3	45.0	0.0	1812	.182E-05	2362	.332E-05	1326	.191E-05	.237E-05
77	3.3	0.0	0.0	1947	.203E-05	2548	.359E-05	1459	.212E-05	.260E-05
78	3.3	-45.0	0.0	1805	.181E-05	2092	.292E-05	1315	.190E-05	.222E-05
79	3.3	-90.0	0.0	1391	.117E-05	1190	.160E-05	873	.121E-05	.133E-05
85	3.6	45.0	0.0	1914	.198E-05	2360	.332E-05	1347	.195E-05	.243E-05
86	3.6	0.0	0.0	2005	.212E-05	2571	.362E-05	1502	.218E-05	.266E-05
87	3.6	-45.0	0.0	1881	.193E-05	2101	.294E-05	1369	.198E-05	.229E-05
88	3.6	-90.0	0.0	1477	.130E-05	1253	.169E-05	948	.133E-05	.145E-05
94	3.9	45.0	0.0	1972	.207E-05	2411	.339E-05	1428	.207E-05	.253E-05
95	3.9	0.0	0.0	2102	.228E-05	2580	.364E-05	1573	.229E-05	.275E-05
96	3.9	-45.0	0.0	1910	.199E-05	2062	.288E-05	1409	.204E-05	.231E-05
103	4.2	45.0	0.0	2129	.232E-05	2553	.360E-05	1578	.230E-05	.276E-05
104	4.2	0.0	0.0	2176	.239E-05	2581	.364E-05	1639	.240E-05	.283E-05
105	4.2	-45.0	0.0	2021	.215E-05	2148	.300E-05	1498	.218E-05	.246E-05
112	4.5	45.0	0.0	2176	.239E-05	2525	.356E-05	1601	.234E-05	.278E-05
113	4.5	0.0	0.0	2229	.247E-05	2581	.364E-05	1680	.246E-05	.287E-05
114	4.5	-45.0	0.0	2059	.221E-05	2128	.298E-05	1516	.221E-05	.247E-05
122	4.8	0.0	0.0	2328	.263E-05	2600	.367E-05	1737	.255E-05	.296E-05

RUN # 83

GEP TEST NO.N4;1-16M
100%,IN,BLER49;;18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	.87 M/S	7.49 M/S	.87 M/S	7.49 M/S	.87 M/S	7.49 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.65E+03		.14E+03		.10E+03	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	.3	0.0	0.0	656	.236E-08	138	.000E+00	114	.164E-07	.614E-08
6	.6	0.0	0.0	650	.000E+00	144	.665E-08	116	.187E-07	.845E-08
11	.9	0.0	0.0	655	.118E-08	165	.299E-07	119	.222E-07	.180E-07
17	1.2	0.0	0.0	655	.118E-08	235	.107E-06	132	.374E-07	.499E-07
31	1.8	0.0	0.0	695	.483E-07	402	.292E-06	188	.103E-06	.151E-06
39	2.1	0.0	0.0	724	.825E-07	491	.391E-06	209	.127E-06	.204E-06
47	2.4	30.0	0.0	726	.849E-07	514	.416E-06	209	.127E-06	.214E-06
48	2.4	0.0	0.0	736	.967E-07	528	.432E-06	217	.137E-06	.226E-06
49	2.4	-30.0	0.0	715	.719E-07	422	.315E-06	202	.119E-06	.171E-06
57	2.7	30.0	0.0	763	.128E-06	572	.481E-06	252	.178E-06	.267E-06
58	2.7	0.0	0.0	761	.126E-06	556	.463E-06	240	.164E-06	.255E-06
59	2.7	-30.0	0.0	743	.105E-06	481	.380E-06	229	.151E-06	.215E-06
66	3.0	90.0	0.0	744	.106E-06	469	.367E-06	218	.138E-06	.207E-06
67	3.0	45.0	0.0	788	.158E-06	610	.523E-06	264	.192E-06	.295E-06
68	3.0	0.0	0.0	781	.150E-06	604	.516E-06	279	.209E-06	.296E-06
69	3.0	-45.0	0.0	760	.125E-06	479	.378E-06	244	.168E-06	.227E-06
70	3.0	-90.0	0.0	718	.754E-07	312	.193E-06	200	.117E-06	.130E-06
75	3.3	90.0	0.0	759	.124E-06	499	.400E-06	240	.164E-06	.232E-06
76	3.3	45.0	0.0	805	.178E-06	636	.552E-06	296	.229E-06	.324E-06
77	3.3	0.0	0.0	820	.196E-06	671	.590E-06	311	.247E-06	.349E-06
78	3.3	-45.0	0.0	789	.159E-06	519	.422E-06	292	.224E-06	.272E-06
79	3.3	-90.0	0.0	747	.110E-06	352	.237E-06	224	.145E-06	.165E-06
84	3.6	90.0	0.0	802	.174E-06	577	.486E-06	274	.203E-06	.292E-06
85	3.6	45.0	0.0	849	.230E-06	715	.639E-06	315	.251E-06	.379E-06
86	3.6	0.0	0.0	835	.213E-06	672	.591E-06	334	.274E-06	.364E-06
87	3.6	-45.0	0.0	824	.200E-06	554	.461E-06	299	.233E-06	.301E-06
88	3.6	-90.0	0.0	750	.113E-06	372	.259E-06	244	.168E-06	.182E-06
93	3.9	90.0	0.0	840	.219E-06	630	.545E-06	293	.226E-06	.334E-06
94	3.9	45.0	0.0	881	.268E-06	742	.669E-06	359	.303E-06	.418E-06
95	3.9	0.0	0.0	879	.265E-06	709	.632E-06	764	.776E-06	.560E-06
96	3.9	-45.0	0.0	847	.228E-06	568	.476E-06	345	.286E-06	.333E-06
97	3.9	-90.0	0.0	760	.125E-06	355	.240E-06	233	.155E-06	.175E-06
103	4.2	45.0	0.0	930	.325E-06	805	.739E-06	424	.379E-06	.486E-06
104	4.2	0.0	0.0	921	.315E-06	756	.685E-06	423	.378E-06	.463E-06
105	4.2	-45.0	0.0	893	.282E-06	627	.542E-06	418	.372E-06	.401E-06
112	4.5	45.0	0.0	1015	.426E-06	920	.866E-06	487	.452E-06	.587E-06
113	4.5	0.0	0.0	954	.354E-06	785	.717E-06	459	.420E-06	.501E-06
114	4.5	-45.0	0.0	927	.322E-06	643	.559E-06	373	.319E-06	.403E-06
121	4.8	45.0	0.0	1067	.487E-06	982	.935E-06	506	.475E-06	.638E-06
122	4.8	0.0	0.0	1020	.431E-06	869	.810E-06	527	.499E-06	.585E-06
123	4.8	-45.0	0.0	960	.361E-06	647	.564E-06	413	.366E-06	.433E-06

RUN # 84

GEP-EX TEST NO.7,4-11M
100%,IN,BLER50::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.74E+03		.16E+03		.10E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
14	1.2	60.0	0.0	2552	.425E-05	1522	.301E-05	22503	.489E-04	.185E-04
15	1.2	30.0	0.0	3030	.537E-05	1835	.370E-05	14967	.324E-04	.137E-04
16	1.2	15.0	0.0	2931	.514E-05	1759	.353E-05	11061	.239E-04	.108E-04
17	1.2	0.0	0.0	2753	.472E-05	1630	.325E-05	7297	.157E-04	.782E-05
22	1.5	60.0	0.0	3775	.712E-05	2614	.542E-05	19543	.424E-04	.181E-04
23	1.5	30.0	0.0	3880	.737E-05	2646	.549E-05	12838	.278E-04	.134E-04
24	1.5	0.0	0.0	3466	.640E-05	2305	.473E-05	7772	.167E-04	.922E-05
28	1.8	90.0	0.0	3896	.740E-05	2810	.585E-05	21065	.457E-04	.195E-04
29	1.8	60.0	0.0	4440	.860E-05	3253	.682E-05	16853	.366E-04	.172E-04
30	1.8	30.0	0.0	4504	.883E-05	3235	.678E-05	11975	.259E-04	.137E-04
31	1.8	0.0	0.0	4081	.784E-05	2887	.602E-05	7131	.153E-04	.967E-05
35	2.1	120.0	0.0	3839	.727E-05	2835	.590E-05	19695	.428E-04	.185E-04
36	2.1	90.0	0.0	4452	.871E-05	3353	.704E-05	17823	.387E-04	.180E-04
37	2.1	60.0	0.0	5094	.102E-04	3851	.814E-05	14614	.317E-04	.165E-04
38	2.1	30.0	0.0	4962	.990E-05	3701	.781E-05	10281	.222E-04	.132E-04
39	2.1	0.0	0.0	4492	.880E-05	3280	.688E-05	6588	.142E-04	.990E-05
44	2.4	120.0	0.0	4137	.797E-05	3146	.659E-05	17545	.381E-04	.174E-04
45	2.4	90.0	0.0	4997	.999E-05	3859	.816E-05	16285	.353E-04	.177E-04
46	2.4	60.0	0.0	5304	.107E-04	4095	.860E-05	13039	.282E-04	.158E-04
47	2.4	30.0	0.0	5193	.104E-04	3974	.841E-05	9199	.199E-04	.128E-04
48	2.4	0.0	0.0	4814	.956E-05	3645	.769E-05	6033	.129E-04	.100E-04
53	2.7	150.0	0.0	3491	.645E-05	2595	.537E-05	15877	.344E-04	.153E-04
54	2.7	120.0	0.0	4418	.863E-05	3391	.713E-05	16057	.348E-04	.167E-04
56	2.7	60.0	0.0	5484	.111E-04	4265	.905E-05	11966	.259E-04	.153E-04
57	2.7	30.0	0.0	5316	.107E-04	4106	.870E-05	8329	.180E-04	.124E-04
58	2.7	0.0	0.0	4891	.974E-05	3785	.799E-05	5540	.119E-04	.983E-05
64	3.0	180.0	0.0	2740	.469E-05	1959	.397E-05	12970	.281E-04	.121E-04
65	3.0	135.0	0.0	4146	.799E-05	3186	.668E-05	14824	.321E-04	.155E-04
66	3.0	90.0	0.0	5225	.105E-04	4091	.867E-05	13163	.285E-04	.158E-04
67	3.0	45.0	0.0	5454	.111E-04	4311	.915E-05	9129	.197E-04	.132E-04
68	3.0	0.0	0.0	4691	.927E-05	3664	.773E-05	4864	.104E-04	.910E-05
73	3.3	180.0	0.0	2751	.472E-05	1985	.403E-05	11879	.257E-04	.114E-04
74	3.3	135.0	0.0	4136	.797E-05	3203	.671E-05	13324	.289E-04	.144E-04
75	3.3	90.0	0.0	5221	.105E-04	4138	.877E-05	12276	.266E-04	.152E-04
76	3.3	45.0	0.0	5446	.110E-04	4352	.924E-05	8428	.182E-04	.128E-04
77	3.3	0.0	0.0	5002	.100E-04	3973	.841E-05	4869	.104E-04	.958E-05

RUN # 85

GEP&EX TEST NO.7; 6M
100%,IN,BLER51::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.63E+03		.15E+03		.85E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	1.8	225.0	0.0	1014	.890E-06	501	.775E-06	11588	.251E-04	.881E-05
2	1.8	216.0	0.0	1068	.102E-05	550	.883E-06	13372	.290E-04	.102E-04
3	1.8	201.0	0.0	1125	.132E-05	662	.113E-05	15657	.340E-04	.120E-04
4	1.8	186.0	0.0	1353	.169E-05	793	.142E-05	17661	.383E-04	.136E-04
5	1.8	171.0	0.0	1279	.152E-05	717	.125E-05	14730	.320E-04	.114E-04
7	1.8	141.0	0.0	2128	.351E-05	1433	.283E-05	1813	.377E-05	.336E-05
8	1.8	126.0	0.0	2442	.425E-05	1703	.342E-05	22030	.479E-04	.183E-04
12	1.8	99.0	0.0	2987	.552E-05	2143	.439E-05	21885	.476E-04	.189E-04
14	1.8	87.0	0.0	3386	.646E-05	2444	.506E-05	22241	.483E-04	.197E-04
16	1.8	75.0	0.0	3645	.707E-05	2648	.551E-05	21138	.459E-04	.193E-04
18	1.8	63.0	0.0	4052	.802E-05	2971	.622E-05	19232	.418E-04	.185E-04
20	1.8	51.0	0.0	4291	.858E-05	3222	.677E-05	16749	.364E-04	.171E-04
22	1.8	39.0	0.0	4253	.849E-05	3134	.658E-05	14380	.312E-04	.153E-04
24	1.8	27.0	0.0	4364	.875E-05	3217	.676E-05	12824	.278E-04	.143E-04
26	1.8	15.0	0.0	4267	.852E-05	3136	.658E-05	10986	.238E-04	.129E-04
28	1.8	3.0	0.0	3961	.781E-05	2862	.598E-05	9573	.207E-04	.114E-04
30	1.8	-9.0	0.0	3759	.733E-05	2692	.560E-05	7894	.170E-04	.992E-05
32	1.8	-21.0	0.0	3474	.667E-05	2447	.506E-05	5883	.127E-04	.808E-05
34	1.8	-33.0	0.0	3232	.610E-05	2278	.469E-05	4699	.101E-04	.691E-05
36	1.8	-45.0	0.0	2962	.546E-05	2020	.412E-05	3698	.788E-05	.579E-05
39	1.8	-63.0	0.0	2479	.433E-05	1621	.324E-05	2333	.490E-05	.414E-05
45	1.8	-99.0	0.0	1498	.203E-05	811	.146E-05	902	.178E-05	.175E-05
50	1.8	-141.0	0.0	845	.502E-06	314	.363E-06	332	.539E-06	.466E-06

RUN # 36

GEP±EX TEST NO.7, BM
100%,IN,BLER52::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.59E+03		.13E+03		.50E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	2.4	225.0	0.0	1292	.162E-05	710	.127E-05	12278	.264E-04	.963E-05
2	2.4	216.0	0.0	1483	.207E-05	868	.161E-05	13512	.290E-04	.108E-04
3	2.4	201.0	0.0	1726	.263E-05	1088	.209E-05	14734	.317E-04	.120E-04
4	2.4	186.0	0.0	2747	.500E-05	1972	.402E-05	11480	.247E-04	.111E-04
5	2.4	171.0	0.0	1783	.276E-05	1141	.221E-05	11219	.241E-04	.958E-05
7	2.4	141.0	0.0	3274	.623E-05	2422	.500E-05	17690	.381E-04	.163E-04
8	2.4	126.0	0.0	3647	.709E-05	2757	.573E-05	17958	.386E-04	.170E-04
10	2.4	111.0	0.0	4017	.795E-05	3086	.645E-05	17392	.374E-04	.171E-04
12	2.4	99.0	0.0	4269	.854E-05	3292	.690E-05	17254	.371E-04	.174E-04
14	2.4	87.0	0.0	4522	.912E-05	3490	.733E-05	16467	.354E-04	.171E-04
16	2.4	75.0	0.0	4708	.956E-05	3651	.768E-05	15511	.334E-04	.167E-04
18	2.4	63.0	0.0	4838	.986E-05	3752	.790E-05	14268	.307E-04	.160E-04
20	2.4	51.0	0.0	4904	.100E-04	3795	.800E-05	12536	.269E-04	.149E-04
24	2.4	27.0	0.0	4927	.101E-04	3784	.797E-05	9019	.194E-04	.124E-04
26	2.4	15.0	0.0	4883	.996E-05	3748	.790E-05	7350	.158E-04	.111E-04
28	2.4	3.0	0.0	4773	.971E-05	3681	.775E-05	6141	.131E-04	.102E-04
30	2.4	-9.0	0.0	4397	.883E-05	3342	.701E-05	5004	.107E-04	.881E-05
32	2.4	-21.0	0.0	3446	.663E-05	2532	.524E-05	3379	.718E-05	.633E-05
34	2.4	-33.0	0.0	3583	.694E-05	2630	.546E-05	2951	.626E-05	.620E-05
36	2.4	-45.0	0.0	3230	.612E-05	2311	.476E-05	2229	.470E-05	.518E-05
39	2.4	-63.0	0.0	2648	.477E-05	1809	.366E-05	1500	.313E-05	.385E-05
42	2.4	-81.0	0.0	705	.260E-06	208	.170E-06	146	.207E-06	.212E-06
45	2.4	-99.0	0.0	1835	.280E-05	1124	.217E-05	657	.131E-05	.212E-05
50	2.4	-141.0	0.0	1024	.100E-05	441	.679E-06	240	.410E-06	.695E-06

RUN # 37

GEP&EX TEST NO.7, 10M
100%,IN,BLER53::18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.62E+03		.14E+03		.85E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	3.0	225.0	0.0	1547	.216E-05	964	.180E-05	11059	.237E-04	.910E-05
2	3.0	216.0	0.0	1694	.250E-05	1090	.208E-05	11854	.254E-04	.987E-05
3	3.0	201.0	0.0	1906	.292E-05	1287	.251E-05	12677	.272E-04	.108E-04
4	3.0	186.0	0.0	2277	.385E-05	1619	.323E-05	13910	.298E-04	.122E-04
5	3.0	171.0	0.0	2072	.338E-05	1414	.278E-05	10620	.227E-04	.953E-05
6	3.0	156.0	0.0	3058	.567E-05	2289	.469E-05	15145	.325E-04	.141E-04
7	3.0	141.0	0.0	3295	.622E-05	2504	.516E-05	15183	.326E-04	.145E-04
8	3.0	126.0	0.0	3674	.710E-05	2831	.587E-05	15037	.323E-04	.149E-04
10	3.0	111.0	0.0	4087	.806E-05	3210	.670E-05	14775	.317E-04	.154E-04
12	3.0	99.0	0.0	4282	.851E-05	3375	.706E-05	14417	.309E-04	.154E-04
14	3.0	87.0	0.0	4530	.909E-05	3582	.751E-05	14075	.302E-04	.155E-04
16	3.0	75.0	0.0	4683	.944E-05	3713	.780E-05	13603	.292E-04	.154E-04
18	3.0	63.0	0.0	4807	.973E-05	3824	.804E-05	12551	.269E-04	.148E-04
20	3.0	51.0	0.0	4961	.101E-04	3930	.827E-05	11527	.247E-04	.143E-04
22	3.0	39.0	0.0	4925	.100E-04	3919	.825E-05	10292	.220E-04	.133E-04
24	3.0	27.0	0.0	4851	.983E-05	3859	.812E-05	9074	.194E-04	.124E-04
26	3.0	15.0	0.0	4669	.941E-05	3675	.772E-05	7769	.166E-04	.112E-04
28	3.0	3.0	0.0	4572	.918E-05	3589	.753E-05	6541	.139E-04	.102E-04
30	3.0	-9.0	0.0	4398	.878E-05	3443	.721E-05	5412	.115E-04	.913E-05
32	3.0	-21.0	0.0	3994	.784E-05	3138	.654E-05	4152	.877E-05	.770E-05
34	3.0	-33.0	0.0	4027	.792E-05	3132	.653E-05	3716	.783E-05	.741E-05
36	3.0	-45.0	0.0	3751	.728E-05	2896	.602E-05	3078	.646E-05	.657E-05
39	3.0	-63.0	0.0	3304	.624E-05	2516	.519E-05	2306	.479E-05	.540E-05
42	3.0	-81.0	0.0	4939	.100E-04	3999	.842E-05	9366	.200E-04	.128E-04
45	3.0	-99.0	0.0	2447	.425E-05	1760	.354E-05	1201	.241E-05	.340E-05
50	3.0	-141.0	0.0	1724	.257E-05	1104	.211E-05	632	.118E-05	.195E-05

RUN # 88

GEP&EX TEST NO.7;12M
100%,IN,BLER54::18;198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.10E+04		.48E+03		.44E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	3.0	225.0	0.0	2490	.346E-05	1852	.299E-05	10717	.222E-04	.944E-05
2	3.0	216.0	0.0	2720	.399E-05	2058	.344E-05	11348	.235E-04	.102E-04
3	3.0	201.0	0.0	2968	.457E-05	2287	.394E-05	11540	.239E-04	.107E-04
4	3.0	186.0	0.0	3333	.541E-05	2633	.470E-05	12063	.251E-04	.116E-04
5	3.0	171.0	0.0	2717	.390E-05	2012	.334E-05	8650	.177E-04	.827E-05
6	3.0	156.0	0.0	4165	.735E-05	3399	.637E-05	12716	.265E-04	.133E-04
7	3.0	141.0	0.0	4472	.806E-05	3674	.697E-05	12720	.265E-04	.137E-04
8	3.0	126.0	0.0	4058	.696E-05	4015	.771E-05	12880	.268E-04	.144E-04
10	3.0	111.0	0.0	5131	.959E-05	4267	.826E-05	12498	.260E-04	.145E-04
12	3.0	99.0	0.0	5483	.104E-04	4568	.892E-05	12184	.253E-04	.148E-04
14	3.0	87.0	0.0	5607	.107E-04	4703	.922E-05	11643	.242E-04	.146E-04
16	3.0	75.0	0.0	5847	.113E-04	4898	.964E-05	11153	.231E-04	.146E-04
18	3.0	63.0	0.0	5768	.111E-04	4858	.955E-05	10170	.210E-04	.138E-04
20	3.0	51.0	0.0	6008	.116E-04	5047	.997E-05	9620	.198E-04	.137E-04
22	3.0	39.0	0.0	6067	.118E-04	5116	.101E-04	9070	.186E-04	.134E-04
24	3.0	27.0	0.0	5935	.115E-04	4986	.983E-05	8214	.168E-04	.126E-04
26	3.0	15.0	0.0	5964	.115E-04	4973	.980E-05	7524	.153E-04	.122E-04
28	3.0	3.0	0.0	5697	.109E-04	4766	.935E-05	6666	.134E-04	.112E-04
30	3.0	-9.0	0.0	5586	.106E-04	4643	.908E-05	6111	.122E-04	.106E-04
32	3.0	-21.0	0.0	5205	.976E-05	4329	.840E-05	5167	.102E-04	.943E-05
34	3.0	-33.0	0.0	5093	.950E-05	4204	.813E-05	4598	.897E-05	.885E-05
36	3.0	-45.0	0.0	4920	.910E-05	4050	.779E-05	3962	.760E-05	.815E-05
39	3.0	-63.0	0.0	4434	.797E-05	3603	.682E-05	3074	.568E-05	.682E-05
42	3.0	-81.0	0.0	6111	.119E-04	5160	.102E-04	8437	.173E-04	.131E-04
45	3.0	-99.0	0.0	3422	.562E-05	2686	.481E-05	1833	.300E-05	.448E-05
50	3.0	-141.0	0.0	2207	.280E-05	1564	.237E-05	955	.111E-05	.209E-05

RUN # 89

GEP$EX TEST NO.7;14M
100%,IN,BLER55:;18,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.38 M/S	20.54 M/S	2.56 M/S	22.05 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.70E+03		.22E+03		.23E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.22 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	4.2	225.0	0.0	1998	.301E-05	1426	.263E-05	9269	.195E-04	.830E-05
2	4.2	216.0	0.0	2114	.328E-05	1543	.288E-05	9603	.202E-04	.871E-05
3	4.2	201.0	0.0	2290	.369E-05	1705	.323E-05	9942	.210E-04	.920E-05
4	4.2	186.0	0.0	2518	.422E-05	1922	.371E-05	10183	.215E-04	.971E-05
5	4.2	171.0	0.0	2255	.361E-05	1670	.316E-05	7704	.161E-04	.756E-05
6	4.2	156.0	0.0	3335	.612E-05	2653	.530E-05	11283	.238E-04	.117E-04
7	4.2	141.0	0.0	3643	.683E-05	2934	.592E-05	11201	.237E-04	.120E-04
8	4.2	126.0	0.0	4023	.771E-05	3299	.671E-05	11368	.240E-04	.127E-04
10	4.2	111.0	0.0	4316	.840E-05	3568	.730E-05	11051	.233E-04	.129E-04
12	4.2	99.0	0.0	4631	.913E-05	3846	.791E-05	10812	.228E-04	.132E-04
14	4.2	87.0	0.0	4781	.940E-05	3992	.822E-05	10348	.210E-04	.131E-04
16	4.2	75.0	0.0	4940	.984E-05	4123	.851E-05	9859	.208E-04	.130E-04
18	4.2	63.0	0.0	5028	.100E-04	4212	.870E-05	9275	.195E-04	.127E-04
20	4.2	51.0	0.0	5076	.102E-04	4271	.883E-05	8711	.183E-04	.124E-04
22	4.2	39.0	0.0	5276	.106E-04	4423	.917E-05	8147	.171E-04	.122E-04
24	4.2	27.0	0.0	5149	.103E-04	4335	.897E-05	7127	.149E-04	.114E-04
26	4.2	15.0	0.0	5127	.103E-04	4300	.890E-05	6464	.135E-04	.108E-04
28	4.2	3.0	0.0	4949	.987E-05	4175	.862E-05	5679	.118E-04	.101E-04
30	4.2	-9.0	0.0	4855	.965E-05	4051	.835E-05	5017	.103E-04	.942E-05
32	4.2	-21.0	0.0	4569	.898E-05	3800	.781E-05	4266	.871E-05	.848E-05
34	4.2	-33.0	0.0	4448	.870E-05	3710	.761E-05	3827	.776E-05	.801E-05
36	4.2	-45.0	0.0	4350	.847E-05	3613	.740E-05	3378	.679E-05	.755E-05
39	4.2	-63.0	0.0	4002	.767E-05	3270	.665E-05	2714	.536E-05	.656E-05
42	4.2	-81.0	0.0	5307	.107E-04	4499	.933E-05	6889	.144E-04	.114E-04
45	4.2	-99.0	0.0	3079	.552E-05	2431	.482E-05	1478	.269E-05	.435E-05
50	4.2	-141.0	0.0	2373	.388E-05	1784	.341E-05	893	.143E-05	.291E-05

RUN # 90

GEP:EX TEST NO.7; 6M
100%,IN,BLER56::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.61E+03		.14E+03		.95E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	1.8	216.0	0.0	843	.534E-06	371	.508E-06	1679	.342E-05	.147E-05
3	1.8	201.0	0.0	1003	.905E-06	550	.899E-06	2761	.576E-05	.250E-05
5	1.8	171.0	0.0	1542	.216E-05	1111	.212E-05	4936	.105E-04	.487E-05
6	1.8	156.0	0.0	2571	.455E-05	2190	.448E-05	8395	.179E-04	.892E-05
7	1.8	141.0	0.0	3415	.650E-05	3030	.631E-05	10497	.225E-04	.117E-04
10	1.8	111.0	0.0	4963	.101E-04	4547	.962E-05	13768	.295E-04	.163E-04
12	1.8	99.0	0.0	5733	.119E-04	5336	.113E-04	15207	.326E-04	.185E-04
14	1.8	87.0	0.0	6403	.134E-04	6007	.128E-04	15688	.337E-04	.199E-04
16	1.8	75.0	0.0	7100	.151E-04	6698	.143E-04	16569	.356E-04	.215E-04
18	1.8	63.0	0.0	7555	.161E-04	7189	.154E-04	16818	.361E-04	.224E-04
20	1.8	51.0	0.0	7868	.168E-04	7437	.159E-04	16583	.356E-04	.227E-04
22	1.8	39.0	0.0	8180	.176E-04	7731	.166E-04	16103	.346E-04	.228E-04
24	1.8	27.0	0.0	8386	.180E-04	7924	.170E-04	15318	.329E-04	.226E-04
26	1.8	15.0	0.0	8459	.182E-04	7963	.171E-04	14315	.307E-04	.219E-04
28	1.8	3.0	0.0	8511	.183E-04	7983	.171E-04	13670	.293E-04	.215E-04
30	1.8	-9.0	0.0	8223	.177E-04	7666	.164E-04	12205	.263E-04	.201E-04
32	1.8	-21.0	0.0	7671	.164E-04	7065	.151E-04	10455	.224E-04	.179E-04
34	1.8	-33.0	0.0	7278	.155E-04	6615	.141E-04	9659	.207E-04	.167E-04
36	1.8	-45.0	0.0	6691	.141E-04	6051	.129E-04	8427	.180E-04	.150E-04
39	1.8	-63.0	0.0	5554	.115E-04	4923	.104E-04	6444	.137E-04	.118E-04
42	1.8	-81.0	0.0	7826	.167E-04	7404	.158E-04	15395	.331E-04	.218E-04
45	1.8	-99.0	0.0	3352	.636E-05	2757	.571E-05	3256	.683E-05	.629E-05
50	1.8	-141.0	0.0	1764	.267E-05	1213	.234E-05	1289	.258E-05	.253E-05
51	1.8	-156.0	0.0	1329	.166E-05	800	.144E-05	840	.161E-05	.157E-05
52	1.8	-171.0	0.0	1034	.977E-06	530	.855E-06	619	.113E-05	.986E-06
54	1.8	-201.0	0.0	743	.302E-06	254	.253E-06	340	.529E-06	.360E-06

RUN # 21

GEP&EX TEST NO.7,8M
100%,IN,BLER57:18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.60E+03		.10E+03		.17E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	2.4	216.0	0.0	998	.735E-06	503	.701E-06	1894	.372E-05	.170E-05
3	2.4	201.0	0.0	1147	.108E-05	662	.105E-05	2745	.556E-05	.254E-05
5	2.4	171.0	0.0	1439	.176E-05	987	.176E-05	3653	.752E-05	.365E-05
6	2.4	156.0	0.0	2285	.373E-05	1855	.366E-05	6270	.132E-04	.680E-05
7	2.4	141.0	0.0	2768	.485E-05	2367	.477E-05	7317	.154E-04	.830E-05
10	2.4	111.0	0.0	4121	.800E-05	3683	.765E-05	9689	.206E-04	.120E-04
12	2.4	99.0	0.0	4773	.951E-05	4374	.916E-05	10358	.220E-04	.135E-04
14	2.4	87.0	0.0	5453	.111E-04	5048	.106E-04	11289	.240E-04	.152E-04
16	2.4	75.0	0.0	6133	.127E-04	5744	.122E-04	12045	.256E-04	.168E-04
18	2.4	63.0	0.0	6736	.141E-04	6335	.134E-04	12665	.270E-04	.181E-04
20	2.4	51.0	0.0	7242	.153E-04	6831	.145E-04	12876	.274E-04	.190E-04
22	2.4	39.0	0.0	7704	.163E-04	7279	.155E-04	13236	.282E-04	.200E-04
24	2.4	27.0	0.0	8010	.170E-04	7506	.162E-04	13144	.280E-04	.203E-04
26	2.4	15.0	0.0	8182	.174E-04	7703	.164E-04	12776	.272E-04	.203E-04
28	2.4	3.0	0.0	8379	.179E-04	7883	.160E-04	12448	.265E-04	.204E-04
30	2.4	-9.0	0.0	8347	.178E-04	7771	.166E-04	11672	.248E-04	.197E-04
32	2.4	-21.0	0.0	7284	.154E-04	6692	.142E-04	9004	.208E-04	.168E-04
34	2.4	-33.0	0.0	7926	.168E-04	7282	.155E-04	10216	.217E-04	.180E-04
36	2.4	-45.0	0.0	7656	.162E-04	6902	.149E-04	9390	.199E-04	.170E-04
39	2.4	-63.0	0.0	6875	.144E-04	6178	.131E-04	7787	.164E-04	.146E-04
42	2.4	-81.0	0.0	8182	.174E-04	7717	.165E-04	12198	.260E-04	.199E-04
45	2.4	-99.0	0.0	5084	.102E-04	4366	.914E-05	4954	.103E-04	.989E-05
50	2.4	-141.0	0.0	3011	.542E-05	2374	.479E-05	2439	.490E-05	.503E-05
51	2.4	-156.0	0.0	2453	.412E-05	1845	.363E-05	1759	.343E-05	.372E-05
52	2.4	-171.0	0.0	1948	.294E-05	1362	.250E-05	1277	.238E-05	.263E-05
54	2.4	-201.0	0.0	1272	.137E-05	737	.121E-05	663	.106E-05	.121E-05

RUN # 92

GEP TEST NO.88, 10M
100%,IN,RLER88::10,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.11E+04		.40E+03		.54E+03	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
3	3.0	201.0	0.0	2433	.319E-05	3671	.707E-05	1962	.332E-05	.458E-05
5	3.0	171.0	0.0	2757	.395E-05	2847	.524E-05	2265	.403E-05	.443E-05
6	3.0	156.0	0.0	4505	.807E-05	4646	.923E-05	3908	.806E-05	.847E-05
7	3.0	141.0	0.0	5091	.945E-05	5025	.101E-04	4550	.937E-05	.964E-05
10	3.0	111.0	0.0	6486	.127E-04	6047	.123E-04	5037	.124E-04	.125E-04
12	3.0	99.0	0.0	7152	.143E-04	6593	.135E-04	6442	.138E-04	.139E-04
14	3.0	87.0	0.0	7437	.150E-04	6863	.141E-04	6733	.145E-04	.145E-04
16	3.0	75.0	0.0	7747	.157E-04	7154	.148E-04	7033	.152E-04	.152E-04
18	3.0	63.0	0.0	8007	.163E-04	7432	.154E-04	7275	.157E-04	.158E-04
20	3.0	51.0	0.0	8180	.167E-04	7687	.160E-04	7448	.161E-04	.163E-04
24	3.0	27.0	0.0	8420	.173E-04	8056	.168E-04	7706	.167E-04	.169E-04
26	3.0	15.0	0.0	8456	.174E-04	8194	.171E-04	7742	.168E-04	.171E-04
28	3.0	3.0	0.0	8204	.168E-04	8131	.169E-04	7511	.163E-04	.167E-04
30	3.0	-9.0	0.0	7708	.156E-04	7799	.162E-04	7032	.152E-04	.157E-04
32	3.0	-21.0	0.0	5615	.107E-04	5713	.116E-04	4994	.104E-04	.109E-04
34	3.0	-33.0	0.0	6722	.133E-04	7255	.150E-04	6103	.130E-04	.138E-04
36	3.0	-45.0	0.0	6348	.124E-04	7052	.146E-04	5710	.121E-04	.131E-04
39	3.0	-63.0	0.0	5539	.105E-04	6472	.133E-04	4905	.102E-04	.114E-04
42	3.0	-81.0	0.0	5955	.115E-04	6391	.131E-04	5323	.112E-04	.119E-04
45	3.0	-99.0	0.0	3069	.657E-05	5233	.105E-04	3306	.646E-05	.791E-05
50	3.0	-141.0	0.0	2639	.367E-05	4168	.817E-05	2147	.376E-05	.526E-05
51	3.0	-156.0	0.0	2249	.275E-05	3718	.717E-05	1784	.291E-05	.433E-05
52	3.0	-171.0	0.0	1960	.207E-05	3412	.649E-05	1506	.226E-05	.367E-05

RUN # 93

GEP&EX TEST NO.7, 10M
100%,IN,BLER59::18,270

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.56E+03		.19E+03		.95E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.0	216.0	0.0	1809	.302E-05	1382	.272E-05	3640	.797E-05	.454E-05
3	3.0	201.0	0.0	2275	.415E-05	1870	.383E-05	4670	.103E-04	.606E-05
5	3.0	171.0	0.0	2573	.487E-05	2179	.453E-05	4884	.108E-04	.669E-05
6	3.0	156.0	0.0	4387	.926E-05	4074	.884E-05	8098	.180E-04	.120E-04
7	3.0	141.0	0.0	5189	.112E-04	4872	.106E-04	9192	.204E-04	.140E-04
10	3.0	111.0	0.0	6675	.140E-04	6409	.141E-04	10576	.236E-04	.174E-04
12	3.0	99.0	0.0	7347	.164E-04	7029	.156E-04	10830	.241E-04	.186E-04
14	3.0	87.0	0.0	7716	.173E-04	7424	.164E-04	11050	.246E-04	.194E-04
16	3.0	75.0	0.0	8129	.183E-04	7834	.174E-04	11408	.254E-04	.203E-04
18	3.0	63.0	0.0	8404	.190E-04	8094	.180E-04	11316	.252E-04	.207E-04
20	3.0	51.0	0.0	8601	.195E-04	8256	.183E-04	10959	.244E-04	.207E-04
22	3.0	39.0	0.0	8597	.194E-04	8260	.184E-04	10552	.235E-04	.204E-04
24	3.0	27.0	0.0	8412	.190E-04	8037	.178E-04	9876	.220E-04	.196E-04
26	3.0	15.0	0.0	8150	.184E-04	7797	.173E-04	9305	.207E-04	.188E-04
28	3.0	3.0	0.0	7853	.176E-04	7471	.166E-04	8674	.193E-04	.178E-04
30	3.0	-9.0	0.0	7532	.169E-04	7172	.159E-04	8043	.179E-04	.169E-04
32	3.0	-21.0	0.0	6142	.135E-04	5709	.126E-04	6280	.139E-04	.133E-04
34	3.0	-33.0	0.0	6848	.152E-04	6422	.142E-04	6906	.153E-04	.149E-04
36	3.0	-45.0	0.0	6348	.140E-04	5910	.130E-04	6240	.138E-04	.136E-04
39	3.0	-63.0	0.0	5434	.118E-04	4993	.109E-04	4976	.110E-04	.112E-04
42	3.0	-81.0	0.0	5842	.120E-04	5360	.110E-04	5321	.117E-04	.121E-04
45	3.0	-99.0	0.0	4013	.835E-05	3553	.765E-05	3257	.711E-05	.770E-05
50	3.0	-141.0	0.0	2609	.496E-05	2152	.447E-05	1948	.416E-05	.453E-05
51	3.0	-156.0	0.0	2216	.401E-05	1753	.356E-05	1579	.334E-05	.363E-05
52	3.0	-171.0	0.0	1783	.296E-05	1339	.262E-05	1234	.256E-05	.271E-05
54	3.0	-201.0	0.0	1206	.156E-05	765	.131E-05	743	.146E-05	.144E-05

RUN # 21

GEP:EX TEST NO.7, 4M
100%,IN,BLER&O::18,270_

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.69E+03		.10E+03		.23E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
[illegible]	1.2	216.0	0.0	804	.242E-06	284	.230E-06	381	.348E-06	.281E-06
[illegible]	1.2	201.0	0.0	815	.295E-06	303	.273E-06	593	.825E-06	.461E-06
5	1.2	171.0	0.0	770	.186E-06	288	.239E-06	1442	.273E-05	.104E-05
[illegible]	1.2	156.0	0.0	1020	.771E-06	555	.846E-06	3830	.810E-05	.321E-05
[illegible]	1.2	141.0	0.0	1275	.141E-05	831	.147E-05	5551	.120E-04	.490E-05
10	1.2	111.0	0.0	2204	.366E-05	1909	.392E-05	10817	.238E-04	.104E-04
12	1.2	99.0	0.0	2760	.500E-05	2548	.538E-05	12800	.283E-04	.128E-04
14	1.2	87.0	0.0	3326	.637E-05	3157	.676E-05	14646	.324E-04	.151E-04
16	1.2	75.0	0.0	4184	.844E-05	3906	.846E-05	15894	.352E-04	.172E-04
18	1.2	63.0	0.0	4783	.989E-05	4635	.101E-04	16529	.366E-04	.188E-04
20	1.2	51.0	0.0	5437	.115E-04	5304	.116E-04	17172	.381E-04	.203E-04
22	1.2	39.0	0.0	5842	.125E-04	5732	.126E-04	16879	.374E-04	.207E-04
24	1.2	27.0	0.0	6423	.139E-04	6344	.140E-04	16437	.364E-04	.213E-04
26	1.2	15.0	0.0	6552	.142E-04	6469	.143E-04	15894	.352E-04	.211E-04
28	1.2	3.0	0.0	6673	.145E-04	6621	.146E-04	14701	.325E-04	.205E-04
30	1.2	-9.0	0.0	6681	.145E-04	6607	.146E-04	13384	.296E-04	.195E-04
32	1.2	-21.0	0.0	4855	.101E-04	4545	.991E-05	9079	.199E-04	.132E-04
34	1.2	-33.0	0.0	5690	.121E-04	5445	.120E-04	9939	.218E-04	.152E-04
36	1.2	-45.0	0.0	5110	.107E-04	4826	.106E-04	7759	.169E-04	.127E-04
39	1.2	-63.0	0.0	4132	.832E-05	3759	.813E-05	5532	.119E-04	.944E-05
45	1.2	-99.0	0.0	2262	.380E-05	1783	.364E-05	2387	.486E-05	.409E-05
50	1.2	-141.0	0.0	1143	.109E-05	615	.982E-06	759	.120E-05	.109E-05
51	1.2	-156.0	0.0	954	.631E-06	452	.611E-06	574	.782E-06	.674E-06
52	1.2	-171.0	0.0	834	.341E-06	313	.295E-06	386	.360E-06	.331E-06
54	1.2	-201.0	0.0	742	.119E-06	224	.932E-07	312	.193E-06	.134E-06

RUN # 95

GEP$EX TEST NO.7, 12M
100%,IN,BLER61:18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.55E+03		.12E+03		.50E+02	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.6	216.0	0.0	2018	.337E-05	1600	.321E-05	3751	.789E-05	.480E-05
3	3.6	201.0	0.0	2479	.443E-05	2064	.417E-05	4408	.929E-05	.595E-05
5	3.6	171.0	0.0	2057	.530E-05	2432	.499E-05	4432	.935E-05	.652E-05
6	3.6	156.0	0.0	4690	.951E-05	4281	.893E-05	7325	.155E-04	.113E-04
7	3.6	141.0	0.0	5282	.109E-04	4862	.102E-04	8080	.171E-04	.127E-04
10	3.6	111.0	0.0	6436	.135E-04	6021	.127E-04	9379	.199E-04	.153E-04
12	3.6	99.0	0.0	6833	.144E-04	6406	.136E-04	9737	.207E-04	.162E-04
14	3.6	87.0	0.0	7109	.152E-04	6707	.144E-04	10052	.213E-04	.169E-04
16	3.6	75.0	0.0	7531	.160E-04	7083	.150E-04	10149	.215E-04	.175E-04
18	3.6	63.0	0.0	7829	.167E-04	7387	.157E-04	10264	.218E-04	.180E-04
20	3.6	51.0	0.0	8472	.182E-04	7613	.162E-04	10230	.217E-04	.186E-04
22	3.6	39.0	0.0	8237	.176E-04	7799	.166E-04	10076	.214E-04	.185E-04
24	3.6	27.0	0.0	8114	.174E-04	7653	.162E-04	9605	.204E-04	.180E-04
26	3.6	15.0	0.0	7847	.168E-04	7381	.157E-04	9013	.191E-04	.172E-04
28	3.6	3.0	0.0	7613	.162E-04	7141	.151E-04	8327	.177E-04	.163E-04
30	3.6	-9.0	0.0	7327	.156E-04	6841	.145E-04	7729	.164E-04	.155E-04
32	3.6	-21.0	0.0	5802	.121E-04	5313	.112E-04	5834	.123E-04	.119E-04
34	3.6	-33.0	0.0	6595	.139E-04	6119	.129E-04	6421	.136E-04	.135E-04
36	3.6	-45.0	0.0	6202	.130E-04	5713	.121E-04	5769	.122E-04	.124E-04
39	3.6	-63.0	0.0	5692	.119E-04	5172	.109E-04	4934	.104E-04	.110E-04
42	3.6	-81.0	0.0	6921	.146E-04	6495	.138E-04	9303	.197E-04	.160E-04
45	3.6	-99.0	0.0	4292	.859E-05	3763	.706E-05	3203	.672E-05	.772E-05
50	3.6	-141.0	0.0	3038	.571E-05	2516	.517E-05	1822	.378E-05	.489E-05
51	3.6	-156.0	0.0	2611	.473E-05	2103	.420E-05	1421	.307E-05	.403E-05
52	3.6	-171.0	0.0	2283	.398E-05	1764	.355E-05	1258	.258E-05	.337E-05
54	3.6	-201.0	0.0	1590	.239E-05	1113	.214E-05	767	.153E-05	.202E-05

RUN # 96

GEP&EX TEST NO.7, 12M
100%,IN,BLER&2!!18,255

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.10E+04		.55E+03		.52E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.6	216.0	0.0	2833	.417E-05	2413	.403E-05	5597	.108E-04	.631E-05
3	3.6	201.0	0.0	3214	.504E-05	2834	.494E-05	6340	.124E-04	.743E-05
5	3.6	171.0	0.0	3250	.513E-05	2056	.422E-05	6018	.117E-04	.724E-05
6	3.6	156.0	0.0	5187	.957E-05	4828	.924E-05	9618	.194E-04	.127E-04
7	3.6	141.0	0.0	5602	.107E-04	5373	.104E-04	10294	.208E-04	.139E-04
10	3.6	111.0	0.0	6847	.134E-04	6525	.129E-04	11370	.231E-04	.164E-04
12	3.6	99.0	0.0	7196	.142E-04	6870	.137E-04	11664	.238E-04	.172E-04
14	3.6	87.0	0.0	7610	.151E-04	7294	.146E-04	11991	.245E-04	.180E-04
16	3.6	75.0	0.0	7817	.156E-04	7504	.150E-04	11976	.244E-04	.183E-04
18	3.6	63.0	0.0	8154	.164E-04	7831	.157E-04	11912	.243E-04	.188E-04
20	3.6	51.0	0.0	8269	.166E-04	7951	.160E-04	11564	.236E-04	.187E-04
22	3.6	39.0	0.0	8383	.169E-04	8038	.162E-04	11095	.226E-04	.185E-04
24	3.6	27.0	0.0	8347	.168E-04	8009	.161E-04	10757	.218E-04	.182E-04
26	3.6	15.0	0.0	8233	.166E-04	7866	.158E-04	10115	.205E-04	.176E-04
28	3.6	3.0	0.0	8066	.162E-04	7694	.154E-04	9580	.193E-04	.169E-04
30	3.6	-9.0	0.0	7722	.154E-04	7351	.147E-04	8710	.175E-04	.158E-04
32	3.6	-21.0	0.0	5482	.102E-04	5064	.975E-05	5688	.110E-04	.103E-04
34	3.6	-33.0	0.0	6702	.131E-04	6315	.124E-04	6810	.134E-04	.130E-04
36	3.6	-45.0	0.0	6291	.121E-04	5875	.115E-04	5939	.116E-04	.117E-04
39	3.6	-63.0	0.0	5501	.103E-04	5049	.974E-05	4752	.904E-05	.970E-05
42	3.6	-81.0	0.0	7159	.141E-04	6796	.135E-04	10757	.218E-04	.164E-04
45	3.6	-99.0	0.0	4217	.735E-05	3730	.687E-05	3010	.531E-05	.651E-05
50	3.6	-141.0	0.0	3184	.497E-05	2701	.465E-05	1963	.308E-05	.424E-05
51	3.6	-156.0	0.0	2760	.400E-05	2286	.376E-05	1613	.233E-05	.337E-05
52	3.6	-171.0	0.0	2386	.314E-05	1919	.296E-05	1347	.176E-05	.263E-05
54	3.6	-201.0	0.0	1753	.169E-05	1291	.161E-05	969	.955E-06	.142E-05

RUN # 97

GEP:EX TEST NO.7, 10M
100%,IN,BLER63:118,255

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.66E+03		.20E+03		.10E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.0	216.0	0.0	1702	.239E-05	1306	.230E-05	4911	.101E-04	.492E-05
3	3.0	201.0	0.0	2111	.333E-05	1731	.330E-05	5949	.123E-04	.627E-05
5	3.0	171.0	0.0	2368	.392E-05	1908	.385E-05	5453	.112E-04	.630E-05
6	3.0	156.0	0.0	4099	.790E-05	3793	.774E-05	9760	.204E-04	.120E-04
7	3.0	141.0	0.0	4674	.922E-05	4367	.898E-05	10670	.224E-04	.135E-04
10	3.0	111.0	0.0	6089	.125E-04	5833	.121E-04	12227	.257E-04	.167E-04
12	3.0	99.0	0.0	6656	.138E-04	6401	.134E-04	12635	.266E-04	.178E-04
14	3.0	87.0	0.0	7210	.150E-04	6974	.146E-04	12862	.270E-04	.188E-04
16	3.0	75.0	0.0	7495	.157E-04	7203	.153E-04	12907	.271E-04	.193E-04
18	3.0	63.0	0.0	7832	.165E-04	7647	.161E-04	13033	.274E-04	.199E-04
20	3.0	51.0	0.0	8003	.167E-04	7818	.164E-04	12714	.267E-04	.200E-04
22	3.0	39.0	0.0	8278	.175E-04	8115	.171E-04	12806	.269E-04	.204E-04
24	3.0	27.0	0.0	8362	.177E-04	8180	.172E-04	12269	.258E-04	.202E-04
26	3.0	15.0	0.0	8359	.177E-04	8150	.171E-04	11843	.249E-04	.199E-04
28	3.0	3.0	0.0	0	.000E+00	8005	.168E-04	11292	.237E-04	.136E-04
30	3.0	-9.0	0.0	7973	.168E-04	7780	.163E-04	10621	.223E-04	.184E-04
32	3.0	-21.0	0.0	6026	.123E-04	5754	.120E-04	7499	.156E-04	.133E-04
34	3.0	-33.0	0.0	7148	.149E-04	6930	.145E-04	8531	.178E-04	.157E-04
36	3.0	-45.0	0.0	6657	.138E-04	6378	.133E-04	7451	.155E-04	.142E-04
39	3.0	-63.0	0.0	5727	.116E-04	5450	.113E-04	5828	.120E-04	.117E-04
42	3.0	-81.0	0.0	5867	.120E-04	5541	.115E-04	5812	.120E-04	.118E-04
45	3.0	-99.0	0.0	4172	.806E-05	3837	.784E-05	3586	.726E-05	.772E-05
50	3.0	-141.0	0.0	2667	.461E-05	2267	.445E-05	1750	.334E-05	.414E-05
51	3.0	-156.0	0.0	2224	.359E-05	1806	.346E-05	1347	.248E-05	.318E-05
52	3.0	-171.0	0.0	1864	.277E-05	1442	.267E-05	1042	.184E-05	.243E-05
54	3.0	-201.0	0.0	1300	.147E-05	878	.146E-05	607	.906E-06	.128E-05

RUN # 98

GEP$EX TEST NO.7, 8M
100Z,IN,BLER64:!18,255

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.74E+03		.27E+03		.23E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	2.4	216.0	0.0	1455	.164E-05	1014	.161E-05	3622	.723E-05	.347E-05
3	2.4	201.0	0.0	1816	.247E-05	1398	.244E-05	4879	.991E-05	.490E-05
5	2.4	171.0	0.0	2017	.293E-05	1603	.280E-05	5043	.103E-04	.532E-05
6	2.4	156.0	0.0	3623	.662E-05	3305	.655E-05	9462	.197E-04	.109E-04
7	2.4	141.0	0.0	4144	.781E-05	3851	.773E-05	10505	.221E-04	.125E-04
10	2.4	111.0	0.0	5516	.110E-04	5270	.108E-04	12803	.268E-04	.161E-04
12	2.4	99.0	0.0	6058	.122E-04	5837	.120E-04	13745	.288E-04	.176E-04
14	2.4	87.0	0.0	6535	.133E-04	6354	.131E-04	14155	.297E-04	.186E-04
16	2.4	75.0	0.0	7091	.146E-04	6920	.144E-04	14694	.308E-04	.198E-04
18	2.4	63.0	0.0	7508	.155E-04	7374	.153E-04	14916	.313E-04	.206E-04
20	2.4	51.0	0.0	7896	.164E-04	7795	.162E-04	15010	.315E-04	.213E-04
22	2.4	39.0	0.0	8160	.170E-04	8075	.168E-04	14656	.308E-04	.215E-04
24	2.4	27.0	0.0	8490	.178E-04	8364	.175E-04	13871	.291E-04	.214E-04
26	2.4	15.0	0.0	8567	.180E-04	8488	.177E-04	12943	.271E-04	.209E-04
28	2.4	3.0	0.0	8376	.175E-04	8267	.173E-04	11923	.249E-04	.199E-04
30	2.4	-9.0	0.0	8191	.171E-04	8049	.168E-04	11039	.231E-04	.189E-04
32	2.4	-21.0	0.0	6423	.130E-04	6174	.127E-04	8048	.167E-04	.141E-04
34	2.4	-33.0	0.0	7891	.164E-04	7507	.156E-04	8811	.183E-04	.168E-04
36	2.4	-45.0	0.0	7103	.146E-04	6842	.142E-04	7751	.160E-04	.149E-04
39	2.4	-63.0	0.0	6149	.124E-04	5844	.120E-04	6171	.127E-04	.124E-04
45	2.4	-99.0	0.0	3996	.747E-05	3628	.725E-05	3368	.669E-05	.714E-05
50	2.4	-141.0	0.0	2209	.337E-05	1811	.333E-05	1640	.300E-05	.324E-05
51	2.4	-156.0	0.0	1049	.254E-05	1424	.250E-05	1259	.219E-05	.241E-05
52	2.4	-171.0	0.0	1538	.183E-05	1117	.183E-05	946	.152E-05	.173E-05
54	2.4	-201.0	0.0	1101	.026E-06	665	.059E-06	542	.663E-06	.784E-06

RUN # 99

GEP&EX TEST NO.7, 6M
100%,IN,BLER65::19,255

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.85E+03		.37E+03		.33E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	1.8	216.0	0.0	1205	.010E-06	730	.777E-06	2831	.533E-05	.228E-05
3	1.8	201.0	0.0	1388	.123E-05	940	.123E-05	4446	.877E-05	.371E-05
5	1.8	171.0	0.0	1962	.255E-05	1593	.264E-05	6354	.120E-04	.596E-05
6	1.8	156.0	0.0	3457	.598E-05	3233	.618E-05	11700	.242E-04	.120E-04
7	1.8	141.0	0.0	4164	.760E-05	3963	.775E-05	13314	.277E-04	.143E-04
10	1.8	111.0	0.0	5724	.112E-04	5651	.114E-04	16379	.342E-04	.188E-04
12	1.8	99.0	0.0	6304	.125E-04	6275	.127E-04	17153	.359E-04	.203E-04
14	1.8	87.0	0.0	6982	.141E-04	7006	.143E-04	17988	.377E-04	.219E-04
16	1.8	75.0	0.0	7489	.152E-04	7552	.155E-04	18673	.391E-04	.232E-04
18	1.8	63.0	0.0	7951	.163E-04	8101	.167E-04	19018	.399E-04	.242E-04
20	1.8	51.0	0.0	7990	.164E-04	8195	.169E-04	18786	.394E-04	.241E-04
22	1.8	39.0	0.0	8111	.167E-04	8293	.171E-04	18208	.381E-04	.239E-04
24	1.8	27.0	0.0	8125	.167E-04	8257	.170E-04	17037	.356E-04	.230E-04
26	1.8	15.0	0.0	7962	.163E-04	8084	.166E-04	15372	.321E-04	.216E-04
28	1.8	3.0	0.0	7973	.163E-04	8110	.167E-04	14363	.299E-04	.209E-04
30	1.8	-9.0	0.0	7515	.153E-04	7609	.156E-04	12545	.260E-04	.189E-04
32	1.8	-21.0	0.0	5758	.113E-04	5716	.115E-04	8946	.184E-04	.137E-04
34	1.8	-33.0	0.0	6430	.120E-04	6428	.131E-04	9549	.197E-04	.151E-04
36	1.8	-45.0	0.0	5737	.112E-04	5664	.114E-04	8223	.168E-04	.131E-04
39	1.8	-63.0	0.0	4822	.911E-05	4666	.927E-05	6151	.124E-04	.102E-04
45	1.8	-99.0	0.0	2985	.490E-05	2717	.506E-05	2968	.562E-05	.519E-05
50	1.8	-141.0	0.0	1676	.189E-05	1287	.190E-05	1140	.174E-05	.187E-05
51	1.8	-156.0	0.0	1426	.132E-05	1024	.141E-05	884	.118E-05	.130E-05
52	1.8	-171.0	0.0	1222	.842E-06	781	.887E-06	633	.642E-06	.794E-06
54	1.8	-201.0	0.0	928	.174E-06	473	.222E-06	455	.262E-06	.220E-06

RUN # 100

GEP$EX TEST NO.7, 4M
100%,IN,BLER66!!10,255

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.63 M/S	14.04 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.72E+03		.21E+03		.12E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	1.2	216.0	0.0	1019	.681E-06	460	.534E-06	700	.141E-05	.868E-06
3	1.2	201.0	0.0	1077	.814E-06	526	.677E-06	1493	.292E-05	.146E-05
5	1.2	171.0	0.0	1077	.814E-06	583	.799E-06	3195	.655E-05	.269E-05
6	1.2	156.0	0.0	1597	.201E-05	1175	.207E-05	7540	.158E-04	.656E-05
7	1.2	141.0	0.0	1857	.260E-05	1505	.279E-05	10342	.218E-04	.896E-05
10	1.2	111.0	0.0	3054	.535E-05	2855	.569E-05	16477	.348E-04	.152E-04
12	1.2	99.0	0.0	3683	.677E-05	3502	.726E-05	18754	.397E-04	.178E-04
14	1.2	87.0	0.0	4381	.839E-05	4392	.901E-05	20023	.424E-04	.198E-04
16	1.2	75.0	0.0	5101	.100E-04	5178	.107E-04	21788	.462E-04	.221E-04
18	1.2	63.0	0.0	5663	.113E-04	5824	.121E-04	22316	.473E-04	.234E-04
20	1.2	51.0	0.0	5858	.118E-04	6068	.126E-04	22365	.474E-04	.238E-04
22	1.2	39.0	0.0	6317	.128E-04	6638	.138E-04	21757	.461E-04	.241E-04
24	1.2	27.0	0.0	6440	.131E-04	6760	.141E-04	20269	.429E-04	.233E-04
26	1.2	15.0	0.0	6627	.135E-04	6929	.145E-04	18707	.396E-04	.224E-04
28	1.2	3.0	0.0	6444	.131E-04	6698	.140E-04	16735	.354E-04	.207E-04
30	1.2	-9.0	0.0	6331	.129E-04	6548	.137E-04	15078	.319E-04	.194E-04
32	1.2	-21.0	0.0	5239	.104E-04	5241	.100E-04	11237	.237E-04	.149E-04
34	1.2	-33.0	0.0	5177	.102E-04	5208	.108E-04	10272	.216E-04	.142E-04
36	1.2	-45.0	0.0	4507	.868E-05	4445	.912E-05	7948	.167E-04	.115E-04
39	1.2	-63.0	0.0	3713	.688E-05	3491	.706E-05	5485	.114E-04	.843E-05
45	1.2	-99.0	0.0	1841	.257E-05	1444	.265E-05	1813	.361E-05	.294E-05
50	1.2	-141.0	0.0	969	.566E-06	475	.567E-06	417	.633E-06	.588E-06
51	1.2	-156.0	0.0	843	.277E-06	338	.271E-06	256	.290E-06	.279E-06
52	1.2	-171.0	0.0	746	.550E-07	215	.646E-08	155	.746E-07	.446E-07

RUN # 101

GEP TEST NO. 98; 10M
100%,IN,BLER67;;18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.57E+03		.11E+03		.60E+02	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.0	216.0	0.0	1540	.223E-05	1404	.279E-05	963	.205E-05	.236E-05
4	3.0	186.0	0.0	2614	.469E-05	2822	.584E-05	1931	.425E-05	.494E-05
6	3.0	156.0	0.0	2820	.516E-05	3022	.627E-05	2127	.469E-05	.539E-05
7	3.0	141.0	0.0	4505	.901E-05	5101	.107E-04	3627	.810E-05	.931E-05
8	3.0	126.0	0.0	4926	.998E-05	5653	.119E-04	4065	.909E-05	.104E-04
11	3.0	105.0	0.0	5646	.116E-04	6535	.138E-04	4752	.107E-04	.121E-04
14	3.0	87.0	0.0	6088	.126E-04	7085	.150E-04	5175	.116E-04	.131E-04
17	3.0	69.0	0.0	6420	.134E-04	7450	.158E-04	5521	.124E-04	.139E-04
20	3.0	51.0	0.0	6591	.138E-04	7580	.161E-04	5723	.129E-04	.143E-04
22	3.0	39.0	0.0	6736	.141E-04	7678	.163E-04	5831	.131E-04	.145E-04
24	3.0	27.0	0.0	6702	.140E-04	7565	.160E-04	5755	.129E-04	.144E-04
26	3.0	15.0	0.0	6439	.134E-04	7251	.154E-04	5537	.124E-04	.138E-04
28	3.0	3.0	0.0	6202	.129E-04	6947	.147E-04	5322	.119E-04	.132E-04
30	3.0	-9.0	0.0	5802	.122E-04	6553	.139E-04	5072	.114E-04	.125E-04
32	3.0	-21.0	0.0	5610	.115E-04	6172	.130E-04	4787	.107E-04	.118E-04
34	3.0	-33.0	0.0	5314	.109E-04	5792	.122E-04	4509	.101E-04	.111E-04
37	3.0	-51.0	0.0	4679	.941E-05	5048	.106E-04	3920	.876E-05	.962E-05
40	3.0	-69.0	0.0	4153	.821E-05	4441	.932E-05	3443	.768E-05	.842E-05
43	3.0	-87.0	0.0	3670	.710E-05	3813	.797E-05	2955	.657E-05	.723E-05
46	3.0	-105.0	0.0	2954	.546E-05	2979	.618E-05	2312	.511E-05	.560E-05
49	3.0	-126.0	0.0	2324	.402E-05	2233	.457E-05	1715	.376E-05	.413E-05
51	3.0	-156.0	0.0	1668	.252E-05	1439	.286E-05	1131	.243E-05	.261E-05
53	3.0	-186.0	0.0	1150	.133E-05	819	.153E-05	652	.134E-05	.141E-05
55	3.0	-216.0	0.0	833	.620E-06	439	.714E-06	346	.649E-06	.662E-06
58	3.0	0.0	6.0	6209	.129E-04	6096	.146E-04	5355	.120E-04	.132E-04
61	3.0	0.0	24.0	6702	.140E-04	7229	.153E-04	5770	.130E-04	.141E-04
64	3.0	0.0	42.0	7023	.155E-04	7662	.162E-04	6289	.141E-04	.153E-04
67	3.0	0.0	60.0	7932	.169E-04	7983	.169E-04	6727	.151E-04	.163E-04
70	3.0	0.0	78.0	8641	.185E-04	8342	.177E-04	7367	.166E-04	.176E-04
73	3.0	0.0	96.0	9284	.200E-04	8597	.183E-04	7977	.180E-04	.187E-04
75	3.0	0.0	108.0	9400	.202E-04	8535	.181E-04	8040	.181E-04	.188E-04
77	3.0	0.0	120.0	9657	.208E-04	8560	.182E-04	8225	.185E-04	.192E-04
79	3.0	0.0	132.0	9791	.211E-04	8460	.180E-04	8307	.189E-04	.193E-04
81	3.0	0.0	144.0	9089	.195E-04	7710	.164E-04	7710	.174E-04	.177E-04
84	3.0	0.0	162.0	9252	.199E-04	7600	.161E-04	7907	.178E-04	.179E-04
87	3.0	0.0	180.0	8414	.180E-04	6576	.139E-04	7105	.160E-04	.159E-04
91	3.0	0.0	204.0	6569	.137E-04	4832	.102E-04	5434	.122E-04	.120E-04
94	3.0	0.0	222.0	5320	.109E-04	3725	.778E-05	4420	.990E-05	.948E-05
98	3.0	0.0	249.0	3450	.660E-05	2215	.453E-05	2654	.589E-05	.565E-05
102	3.0	0.0	285.0	1915	.309E-05	1050	.203E-05	1332	.289E-05	.265E-05

RUN # 102

GEP TEST NO. S8, 10M
100%, IN,BLER6B::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.67E+03		.18E+03		.12E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.0	216.0	0.0	1403	.167E-05	1175	.214E-05	826	.160E-05	.181E-05
4	3.0	186.0	0.0	1992	.302E-05	0	.000E+00	0	.000E+00	.982E-06
6	3.0	156.0	0.0	2069	.320E-05	2101	.413E-05	1450	.302E-05	.346E-05
7	3.0	141.0	0.0	3499	.647E-05	3941	.809E-05	2761	.600E-05	.688E-05
8	3.0	126.0	0.0	3887	.736E-05	4429	.914E-05	3118	.681E-05	.779E-05
11	3.0	105.0	0.0	4626	.905E-05	5306	.110E-04	3790	.835E-05	.950E-05
14	3.0	87.0	0.0	5164	.103E-04	5966	.124E-04	4315	.952E-05	.108E-04
17	3.0	69.0	0.0	5603	.113E-04	6542	.137E-04	4745	.105E-04	.119E-04
20	3.0	51.0	0.0	6006	.122E-04	7006	.147E-04	5114	.113E-04	.128E-04
22	3.0	39.0	0.0	6203	.127E-04	7204	.151E-04	5309	.118E-04	.132E-04
24	3.0	27.0	0.0	6223	.127E-04	7236	.152E-04	5345	.119E-04	.133E-04
26	3.0	15.0	0.0	6214	.127E-04	7205	.151E-04	5281	.117E-04	.132E-04
28	3.0	3.0	0.0	6130	.125E-04	7110	.149E-04	5233	.116E-04	.130E-04
30	3.0	-9.0	0.0	6049	.123E-04	6984	.146E-04	5162	.114E-04	.128E-04
32	3.0	-21.0	0.0	5642	.114E-04	6473	.135E-04	4840	.107E-04	.119E-04
34	3.0	-33.0	0.0	5730	.116E-04	6570	.137E-04	4890	.108E-04	.121E-04
37	3.0	-51.0	0.0	5241	.105E-04	5900	.123E-04	4414	.975E-05	.109E-04
40	3.0	-69.0	0.0	4630	.906E-05	5123	.106E-04	3861	.849E-05	.942E-05
43	3.0	-87.0	0.0	3930	.746E-05	4247	.875E-05	3248	.710E-05	.779E-05
46	3.0	-105.0	0.0	3392	.622E-05	3546	.724E-05	2713	.589E-05	.647E-05
49	3.0	-126.0	0.0	2820	.491E-05	2828	.570E-05	2188	.469E-05	.511E-05
51	3.0	-156.0	0.0	2127	.333E-05	1950	.381E-05	1553	.325E-05	.347E-05
52	3.0	-186.0	0.0	1511	.192E-05	1211	.222E-05	960	.193E-05	.202E-05
55	3.0	-216.0	0.0	1051	.865E-06	683	.108E-05	546	.967E-06	.974E-06
58	3.0	0.0	6.0	6133	.125E-04	7063	.140E-04	5245	.116E-04	.130E-04
61	3.0	0.0	24.0	6405	.131E-04	7170	.150E-04	5457	.121E-04	.135E-04
64	3.0	0.0	42.0	6888	.142E-04	7494	.157E-04	5887	.131E-04	.144E-04
67	3.0	0.0	60.0	7592	.150E-04	7224	.167E-04	6494	.145E-04	.157E-04
70	3.0	0.0	78.0	8275	.174E-04	8260	.174E-04	7037	.157E-04	.168E-04
73	3.0	0.0	96.0	8660	.183E-04	8384	.176E-04	7410	.165E-04	.175E-04
75	3.0	0.0	108.0	8753	.185E-04	8329	.175E-04	7535	.168E-04	.176E-04
77	3.0	0.0	120.0	8057	.187E-04	8221	.173E-04	7613	.170E-04	.177E-04
79	3.0	0.0	132.0	9373	.199E-04	8438	.178E-04	8038	.180E-04	.185E-04
81	3.0	0.0	144.0	8722	.186E-04	7758	.163E-04	7547	.169E-04	.172E-04
84	3.0	0.0	162.0	8997	.191E-04	7669	.161E-04	7627	.170E-04	.174E-04
87	3.0	0.0	180.0	8409	.177E-04	6895	.144E-04	7115	.159E-04	.160E-04
91	3.0	0.0	204.0	6951	.144E-04	5374	.112E-04	5810	.129E-04	.128E-04
94	3.0	0.0	222.0	5700	.115E-04	4187	.862E-05	4764	.105E-04	.102E-04
98	3.0	0.0	249.0	4105	.786E-05	2746	.552E-05	3254	.711E-05	.680E-05
102	3.0	0.0	285.0	2335	.380E-05	1331	.259E-05	1663	.350E-05	.328E-05

RUN # 103

DEP TEST NO.S8, 10M
100%, IN,BLER69::10:270

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.83E+03		.32E103		.30E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.0	216.0	0.0	1766	.215E-05	1522	.259E-05	1139	.191E-05	.222E-05
4	3.0	186.0	0.0	2499	.382E-05	2495	.468E-05	1813	.344E-05	.400E-05
6	3.0	156.0	0.0	2393	.350E-05	2380	.443E-05	1724	.324E-05	.377E-05
7	3.0	141.0	0.0	3816	.684E-05	4191	.833E-05	3017	.618E-05	.714E-05
8	3.0	126.0	0.0	4152	.761E-05	4695	.941E-05	3366	.697E-05	.802E-05
11	3.0	105.0	0.0	4921	.937E-05	5645	.115E-04	4066	.856E-05	.983E-05
14	3.0	87.0	0.0	5511	.107E-04	6386	.130E-04	4642	.987E-05	.112E-04
17	3.0	69.0	0.0	5917	.116E-04	6927	.142E-04	5027	.107E-04	.122E-04
20	3.0	51.0	0.0	6330	.126E-04	7424	.153E-04	5430	.117E-04	.132E-04
22	3.0	39.0	0.0	6427	.128E-04	7545	.155E-04	5518	.119E-04	.134E-04
24	3.0	27.0	0.0	6501	.130E-04	7596	.157E-04	5565	.120E-04	.136E-04
26	3.0	15.0	0.0	6420	.128E-04	7476	.154E-04	5510	.118E-04	.134E-04
28	3.0	3.0	0.0	6187	.123E-04	7172	.147E-04	5285	.113E-04	.128E-04
30	3.0	-9.0	0.0	6040	.119E-04	6966	.143E-04	5169	.111E-04	.125E-04
32	3.0	-21.0	0.0	5427	.105E-04	6173	.126E-04	4610	.979E-05	.110E-04
34	3.0	-33.0	0.0	5552	.108E-04	6300	.129E-04	4750	.101E-04	.113E-04
37	3.0	-51.0	0.0	4989	.952E-05	5560	.113E-04	4161	.877E-05	.988E-05
40	3.0	-69.0	0.0	4348	.806E-05	4741	.951E-05	3592	.748E-05	.837E-05
43	3.0	-87.0	0.0	3762	.672E-05	4007	.793E-05	3062	.628E-05	.699E-05
46	3.0	-105.0	0.0	3071	.513E-05	3166	.612E-05	2415	.481E-05	.537E-05
49	3.0	-126.0	0.0	2532	.390E-05	2485	.466E-05	1911	.367E-05	.409E-05
51	3.0	-156.0	0.0	1934	.253E-05	1733	.304E-05	1359	.241E-05	.267E-05
53	3.0	-186.0	0.0	1422	.136E-05	1103	.169E-05	887	.134E-05	.147E-05
55	3.0	-216.0	0.0	1046	.499E-06	638	.686E-06	518	.504E-06	.565E-06
58	3.0	0.0	6.0	6208	.123E-04	7123	.146E-04	5281	.113E-04	.128E-04
61	3.0	0.0	24.0	6403	.128E-04	7175	.147E-04	5478	.118E-04	.131E-04
64	3.0	0.0	42.0	6798	.137E-04	7400	.152E-04	5836	.126E-04	.138E-04
67	3.0	0.0	60.0	7425	.151E-04	7704	.161E-04	6412	.139E-04	.150E-04
70	3.0	0.0	78.0	8080	.166E-04	8113	.168E-04	6943	.151E-04	.162E-04
73	3.0	0.0	96.0	1500	.154E-05	926	.131E-05	902	.138E-05	.140E-05
75	3.0	0.0	108.0	9143	.190E-04	8612	.178E-04	7920	.173E-04	.181E-04
77	3.0	0.0	120.0	9271	.193E-04	8579	.170E-04	8018	.175E-04	.182E-04
79	3.0	0.0	132.0	9557	.200E-04	8653	.172E-04	8210	.180E-04	.186E-04
81	3.0	0.0	144.0	9111	.190E-04	9061	.180E-04	7081	.172E-04	.183E-04
84	3.0	0.0	162.0	9196	.192E-04	7846	.162E-04	7931	.173E-04	.175E-04
87	3.0	0.0	180.0	8617	.170E-04	7073	.145E-04	7367	.161E-04	.161E-04
91	3.0	0.0	204.0	7727	.158E-04	5972	.122E-04	6506	.141E-04	.140E-04
94	3.0	0.0	222.0	6454	.129E-04	4798	.963E-05	5378	.115E-04	.113E-04
98	3.0	0.0	249.0	4385	.814E-05	3063	.590E-05	3529	.734E-05	.710E-05
102	3.0	0.0	285.0	2642	.415E-05	1650	.286E-05	1937	.373E-05	.357E-05

RUN # 104

GEP TEST NO.S8, 10M
100%,IN,BLER70:118,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	17.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.77E+03		.34E+03		.24E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.0	216.0	0.0	1816	.239E-05	1649	.283E-05	1202	.218E-05	.247E-05
4	3.0	186.0	0.0	2814	.467E-05	3010	.575E-05	2113	.425E-05	.491E-05
6	3.0	156.0	0.0	2530	.402E-05	2572	.401E-05	1856	.367E-05	.418E-05
7	3.0	141.0	0.0	4767	.914E-05	5363	.100E-04	3054	.820E-05	.941E-05
8	3.0	126.0	0.0	5197	.101E-04	5939	.121E-04	4297	.921E-05	.105E-04
11	3.0	105.0	0.0	5835	.116E-04	6705	.137E-04	4860	.105E-04	.120E-04
14	3.0	87.0	0.0	6238	.125E-04	7140	.147E-04	5253	.114E-04	.129E-04
17	3.0	69.0	0.0	6683	.135E-04	7678	.158E-04	5655	.123E-04	.139E-04
20	3.0	51.0	0.0	6741	.137E-04	7713	.159E-04	5731	.125E-04	.140E-04
22	3.0	39.0	0.0	6775	.137E-04	7745	.159E-04	5777	.126E-04	.141E-04
24	3.0	27.0	0.0	6600	.133E-04	7512	.154E-04	5526	.122E-04	.137E-04
26	3.0	15.0	0.0	6509	.131E-04	7368	.151E-04	5544	.120E-04	.135E-04
28	3.0	3.0	0.0	6424	.129E-04	7235	.148E-04	5483	.119E-04	.133E-04
30	3.0	-9.0	0.0	6137	.123E-04	6863	.140E-04	5223	.113E-04	.126E-04
32	3.0	-21.0	0.0	5470	.100E-04	6040	.123E-04	4664	.100E-04	.111E-04
34	3.0	-33.0	0.0	5420	.106E-04	5913	.120E-04	4583	.986E-05	.109E-04
37	3.0	-51.0	0.0	4925	.950E-05	5236	.105E-04	4126	.882E-05	.964E-05
40	3.0	-69.0	0.0	4399	.830E-05	4570	.911E-05	3641	.772E-05	.839E-05
43	3.0	-87.0	0.0	3773	.691E-05	3801	.745E-05	3069	.642E-05	.694E-05
46	3.0	-105.0	0.0	3292	.577E-05	3225	.622E-05	2614	.539E-05	.580E-05
49	3.0	-126.0	0.0	2614	.421E-05	2446	.454E-05	1998	.399E-05	.425E-05
51	3.0	-156.0	0.0	1993	.279E-05	1746	.303E-05	1405	.264E-05	.283E-05
53	3.0	-186.0	0.0	1519	.171E-05	1170	.180E-05	961	.164E-05	.171E-05
55	3.0	-216.0	0.0	1090	.726E-06	602	.746E-06	570	.749E-06	.741E-06
58	3.0	0.0	6.0	6377	.128E-04	7127	.146E-04	5441	.118E-04	.131E-04
61	3.0	0.0	24.0	6836	.139E-04	7407	.152E-04	5843	.127E-04	.140E-04
64	3.0	0.0	42.0	7199	.147E-04	7569	.156E-04	6165	.135E-04	.146E-04
67	3.0	0.0	60.0	8081	.167E-04	8140	.168E-04	6809	.151E-04	.162E-04
70	3.0	0.0	78.0	8821	.184E-04	8621	.178E-04	7573	.166E-04	.176E-04
75	3.0	0.0	108.0	9373	.197E-04	8705	.182E-04	8105	.177E-04	.186E-04
77	3.0	0.0	120.0	9560	.201E-04	8738	.181E-04	8274	.182E-04	.188E-04
79	3.0	0.0	132.0	9832	.207E-04	8791	.182E-04	8475	.187E-04	.192E-04
81	3.0	0.0	144.0	9250	.194E-04	8087	.167E-04	7919	.174E-04	.178E-04
84	3.0	0.0	162.0	9423	.198E-04	7953	.164E-04	8059	.177E-04	.179E-04
87	3.0	0.0	180.0	8864	.185E-04	7229	.148E-04	7547	.166E-04	.166E-04
91	3.0	0.0	204.0	7082	.144E-04	5490	.111E-04	5915	.129E-04	.128E-04
94	3.0	0.0	222.0	5556	.109E-04	4113	.813E-05	4564	.982E-05	.960E-05
98	3.0	0.0	249.0	3814	.696E-05	2679	.504E-05	3723	.791E-05	.661E-05
102	3.0	0.0	285.0	2186	.323E-05	1359	.220E-05	1527	.292E-05	.277E-05

RUN # 105

GEP TEST NO.98; 5M
100%,IN,BLER71::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.71E+03		.24E+03		.12E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	1.5	216.0	0.0	942	.550E-06	402	.378E-06	344	.536E-06	.486E-06
4	1.5	186.0	0.0	996	.680E-06	601	.830E-06	418	.713E-06	.743E-06
6	1.5	156.0	0.0	1009	.712E-06	771	.121E-05	458	.809E-06	.918E-06
7	1.5	141.0	0.0	1793	.260E-05	1872	.371E-05	1109	.237E-05	.291E-05
8	1.5	126.0	0.0	1831	.269E-05	2029	.407E-05	1186	.255E-05	.312E-05
11	1.5	105.0	0.0	2742	.489E-05	3580	.758E-05	2032	.457E-05	.572E-05
14	1.5	87.0	0.0	3421	.653E-05	4646	.100E-04	2700	.617E-05	.761E-05
17	1.5	69.0	0.0	4117	.821E-05	5702	.124E-04	3334	.769E-05	.949E-05
20	1.5	51.0	0.0	4568	.930E-05	6431	.140E-04	3767	.872E-05	.108E-04
22	1.5	39.0	0.0	4885	.101E-04	6922	.152E-04	4051	.940E-05	.116E-04
24	1.5	27.0	0.0	4942	.102E-04	7073	.155E-04	4096	.951E-05	.118E-04
26	1.5	15.0	0.0	5081	.105E-04	7267	.159E-04	4219	.980E-05	.122E-04
28	1.5	3.0	0.0	5087	.105E-04	7197	.150E-04	4249	.988E-05	.121E-04
30	1.5	-9.0	0.0	4876	.100E-04	6889	.151E-04	4102	.953E-05	.116E-04
32	1.5	-21.0	0.0	4423	.895E-05	6135	.134E-04	3606	.853E-05	.103E-04
34	1.5	-33.0	0.0	4147	.829E-05	5658	.123E-04	3417	.789E-05	.954E-05
37	1.5	-51.0	0.0	3405	.660E-05	4699	.101E-04	2810	.643E-05	.779E-05
40	1.5	-69.0	0.0	2901	.527E-05	3778	.803E-05	2271	.515E-05	.619E-05
42	1.5	-87.0	0.0	2217	.363E-05	2512	.516E-05	1554	.343E-05	.409E-05
46	1.5	-105.0	0.0	1622	.219E-05	1676	.327E-05	1056	.224E-05	.258E-05
49	1.5	-126.0	0.0	1187	.114E-05	1021	.170E-05	633	.123E-05	.139E-05
51	1.5	-156.0	0.0	859	.350E-06	506	.614E-06	306	.445E-06	.473E-06
58	1.5	0.0	6.0	5192	.108E-04	7238	.159E-04	4370	.102E-04	.123E-04
61	1.5	0.0	24.0	6340	.136E-04	9305	.183E-04	5415	.127E-04	.149E-04
64	1.5	0.0	42.0	8092	.178E-04	9815	.217E-04	6944	.163E-04	.187E-04
67	1.5	0.0	60.0	10009	.224E-04	11388	.253E-04	8636	.204E-04	.227E-04
70	1.5	0.0	78.0	12767	.291E-04	13513	.301E-04	11099	.263E-04	.285E-04
73	1.5	0.0	96.0	15194	.349E-04	14869	.332E-04	13271	.315E-04	.332E-04
75	1.5	0.0	108.0	16638	.384E-04	15728	.351E-04	14569	.346E-04	.360E-04
77	1.5	0.0	120.0	17148	.396E-04	15588	.348E-04	14956	.355E-04	.366E-04
79	1.5	0.0	132.0	18285	.424E-04	15891	.355E-04	15219	.378E-04	.385E-04
81	1.5	0.0	144.0	17381	.402E-04	14401	.321E-04	15101	.358E-04	.360E-04
84	1.5	0.0	162.0	16120	.372E-04	12505	.280E-04	13930	.330E-04	.326E-04
87	1.5	0.0	180.0	13255	.302E-04	9864	.218E-04	11441	.271E-04	.263E-04
91	1.5	0.0	204.0	1165	.109E-05	539	.689E-06	707	.140E-05	.105E-05
94	1.5	0.0	222.0	5197	.108E-04	3374	.711E-05	4280	.995E-05	.925E-05
98	1.5	0.0	249.0	2399	.406E-05	1368	.257E-05	1720	.383E-05	.347E-05
102	1.5	0.0	285.0	988	.661E-06	422	.424E-06	448	.785E-06	.619E-06

RUN # 106

GEP TEST NO.S8, 2.5M
100%,IN,BLER72::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.70E+03		.17E+03		.15E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
11	.8	105.0	0.0	916	.521E-06	593	.920E-06	352	.483E-06	.647E-06
14	.8	87.0	0.0	1088	.936E-06	983	.180E-05	529	.907E-06	.123E-05
17	.8	69.0	0.0	1200	.121E-05	1472	.291E-05	692	.130E-05	.183E-05
20	.8	51.0	0.0	1445	.180E-05	2072	.427E-05	952	.192E-05	.269E-05
22	.8	39.0	0.0	1533	.201E-05	2272	.473E-05	1035	.212E-05	.299E-05
24	.8	27.0	0.0	1638	.226E-05	2517	.528E-05	1128	.234E-05	.333E-05
26	.8	15.0	0.0	1818	.270E-05	2823	.597E-05	1296	.274E-05	.385E-05
28	.8	3.0	0.0	1932	.297E-05	2971	.635E-05	1390	.297E-05	.414E-05
30	.8	-9.0	0.0	1950	.301E-05	3018	.642E-05	1434	.307E-05	.421E-05
32	.8	-21.0	0.0	1848	.277E-05	2755	.582E-05	1347	.286E-05	.386E-05
34	.8	-33.0	0.0	1855	.279E-05	2648	.558E-05	1304	.276E-05	.374E-05
37	.8	-51.0	0.0	1514	.196E-05	2104	.434E-05	1020	.208E-05	.283E-05
40	.8	-69.0	0.0	1271	.138E-05	1556	.310E-05	761	.146E-05	.200E-05
43	.8	-87.0	0.0	1063	.876E-06	779	.172E-05	517	.878E-06	.119E-05
46	.8	-105.0	0.0	831	.516E-06	599	.934E-06	323	.414E-06	.562E-06
58	.8	0.0	6.0	2180	.357E-05	3400	.720E-05	1652	.359E-05	.486E-05
61	.8	0.0	24.0	4102	.821E-05	6377	.140E-04	3432	.785E-05	.101E-04
64	.8	0.0	42.0	7407	.162E-04	10787	.240E-04	6449	.151E-04	.185E-04
67	.8	0.0	60.0	13398	.306E-04	17721	.397E-04	11941	.282E-04	.330E-04
70	.8	0.0	78.0	23316	.545E-04	27261	.614E-04	20892	.496E-04	.553E-04
73	.8	0.0	96.0	35451	.838E-04	36116	.814E-04	31713	.755E-04	.803E-04
75	.8	0.0	108.0	41829	.992E-04	39968	.902E-04	37965	.905E-04	.932E-04
77	.8	0.0	120.0	41164	.976E-04	36639	.826E-04	37192	.886E-04	.895E-04
79	.8	0.0	132.0	19405	.451E-04	15460	.346E-04	17218	.408E-04	.401E-04
81	.8	0.0	144.0	45083	.107E-03	33673	.759E-04	40019	.954E-04	.924E-04
84	.8	0.0	162.0	32209	.760E-04	22714	.511E-04	29215	.695E-04	.652E-04
87	.8	0.0	180.0	17511	.405E-04	11199	.250E-04	15691	.372E-04	.340E-04
94	.8	0.0	222.0	2074	.331E-05	996	.183E-05	1607	.349E-05	.286E-05
98	.8	0.0	249.0	800	.241E-06	267	.181E-06	296	.349E-06	.256E-06
102	.8	0.0	285.0	779	.191E-06	270	.180E-06	237	.208E-06	.195E-06

RUN # 107

GEP TEST NO.98; 2.5M
100%,IN,BLER73!!18;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.73E+03		.23E+03		.21E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
6	.8	156.0	132.0	753	.627E-07	228	.161E-06	229	.407E-07	.895E-07
7	.8	141.0	132.0	1102	.904E-06	756	.120E-05	526	.751E-06	.956E-06
8	.8	126.0	132.0	1704	.236E-05	1617	.315E-05	1002	.189E-05	.248E-05
11	.8	105.0	132.0	4393	.884E-05	4926	.106E-04	3323	.744E-05	.901E-05
14	.8	87.0	132.0	11044	.242E-04	12072	.268E-04	9077	.212E-04	.244E-04
17	.8	69.0	132.0	22709	.530E-04	22899	.514E-04	19369	.458E-04	.501E-04
20	.8	51.0	132.0	36211	.856E-04	33877	.763E-04	31683	.753E-04	.790E-04
22	.8	39.0	132.0	42135	.999E-04	38249	.862E-04	37217	.885E-04	.914E-04
24	.8	27.0	132.0	44626	.106E-03	39124	.882E-04	40067	.953E-04	.963E-04
26	.8	15.0	132.0	42918	.102E-03	36641	.825E-04	38972	.927E-04	.921E-04
28	.8	3.0	132.0	39706	.940E-04	32045	.721E-04	36059	.857E-04	.837E-04
30	.8	-9.0	132.0	34255	.809E-04	26716	.600E-04	31010	.737E-04	.713E-04
34	.8	-33.0	132.0	19876	.462E-04	13974	.312E-04	17777	.420E-04	.396E-04
37	.8	-51.0	132.0	10410	.234E-04	7081	.155E-04	9186	.215E-04	.200E-04
40	.8	-69.0	132.0	4539	.919E-05	3039	.637E-05	3870	.875E-05	.807E-05
43	.8	-87.0	132.0	2241	.365E-05	1352	.255E-05	1647	.343E-05	.320E-05
46	.8	-105.0	132.0	1080	.851E-06	517	.657E-06	577	.873E-06	.791E-06
49	.8	-126.0	132.0	753	.627E-07	267	.907E-07	239	.646E-07	.730E-07
79	.8	0.0	132.0	37669	.891E-04	30279	.681E-04	34013	.809E-04	.791E-04

RUN # 108

GEP TEST NO.88, 5M
100%,IN,BLER74::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.88E+03		.39E+03		.38E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	1.5	216.0	132.0	1072	.456E-06	556	.388E-06	499	.297E-06	.380E-06
4	1.5	186.0	132.0	1225	.825E-06	741	.807E-06	626	.600E-06	.745E-06
6	1.5	156.0	132.0	1576	.167E-05	1162	.176E-05	954	.138E-05	.161E-05
7	1.5	141.0	132.0	2756	.500E-05	2577	.497E-05	2180	.432E-05	.476E-05
8	1.5	126.0	132.0	4116	.780E-05	3708	.753E-05	3218	.680E-05	.738E-05
11	1.5	105.0	132.0	6521	.136E-04	6141	.130E-04	5332	.119E-04	.128E-04
14	1.5	87.0	132.0	10178	.224E-04	9576	.208E-04	8698	.199E-04	.210E-04
17	1.5	69.0	132.0	13561	.306E-04	12927	.284E-04	11860	.275E-04	.288E-04
20	1.5	51.0	132.0	17231	.394E-04	16139	.357E-04	15201	.355E-04	.368E-04
22	1.5	39.0	132.0	19761	.455E-04	18223	.404E-04	17653	.413E-04	.424E-04
24	1.5	27.0	132.0	20540	.474E-04	18567	.412E-04	18444	.432E-04	.439E-04
26	1.5	15.0	132.0	20489	.473E-04	18537	.411E-04	18360	.430E-04	.438E-04
28	1.5	3.0	132.0	20010	.461E-04	17883	.397E-04	18028	.422E-04	.426E-04
30	1.5	-9.0	132.0	18980	.436E-04	16727	.370E-04	16928	.396E-04	.400E-04
32	1.5	-21.0	132.0	17336	.397E-04	14986	.331E-04	15201	.355E-04	.360E-04
34	1.5	-33.0	132.0	15854	.361E-04	13597	.299E-04	14193	.331E-04	.330E-04
37	1.5	-51.0	132.0	12470	.279E-04	10571	.231E-04	10976	.254E-04	.254E-04
40	1.5	-69.0	132.0	9811	.215E-04	8212	.177E-04	8530	.195E-04	.196E-04
43	1.5	-87.0	132.0	6580	.137E-04	5156	.108E-04	5435	.126E-04	.123E-04
46	1.5	-105.0	132.0	4387	.845E-05	3354	.673E-05	3623	.777E-05	.763E-05
49	1.5	-126.0	132.0	2731	.446E-05	1968	.359E-05	2070	.405E-05	.402E-05
51	1.5	-156.0	132.0	1339	.110E-05	780	.895E-06	776	.959E-06	.983E-06
53	1.5	-186.0	132.0	998	.277E-06	489	.236E-06	433	.139E-06	.217E-06
55	1.5	-216.0	132.0	911	.675E-07	370	.000E+00	331	.000E+00	.220E-07
79	1.5	0.0	132.0	19780	.456E-04	17654	.391E-04	17872	.419E-04	.421E-04

RUN # 109

STACK #1 STACK #2 STACK #3

DEP TEST NO.58, 10M
100%,IN,BLER75::10,270

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.90E+03		.40E+03		.37E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
2	3.0	216.0	132.0	2541	.395E-05	2085	.382E-05	1802	.343E-05	.373E-05
4	3.0	186.0	132.0	3767	.691E-05	3225	.640E-05	2886	.602E-05	.644E-05
6	3.0	156.0	132.0	3691	.672E-05	3095	.611E-05	2851	.593E-05	.625E-05
7	3.0	141.0	132.0	5924	.121E-04	5196	.109E-04	4805	.106E-04	.112E-04
8	3.0	126.0	132.0	6432	.133E-04	5743	.121E-04	5265	.117E-04	.124E-04
11	3.0	105.0	132.0	7210	.152E-04	6497	.138E-04	6033	.135E-04	.142E-04
14	3.0	87.0	132.0	7735	.165E-04	7028	.150E-04	6571	.148E-04	.154E-04
17	3.0	69.0	132.0	8301	.178E-04	7559	.162E-04	7159	.162E-04	.168E-04
20	3.0	51.0	132.0	8660	.187E-04	7837	.169E-04	7537	.171E-04	.176E-04
22	3.0	39.0	132.0	8803	.191E-04	8008	.172E-04	7699	.175E-04	.179E-04
24	3.0	27.0	132.0	8955	.194E-04	8130	.175E-04	7848	.179E-04	.183E-04
26	3.0	15.0	132.0	8893	.193E-04	8049	.173E-04	7823	.178E-04	.181E-04
28	3.0	3.0	132.0	8961	.194E-04	8098	.174E-04	7864	.179E-04	.183E-04
30	3.0	-9.0	132.0	8755	.189E-04	7890	.170E-04	7602	.173E-04	.177E-04
32	3.0	-21.0	132.0	5390	.100E-04	5812	.123E-04	4523	.993E-05	.110E-04
34	3.0	-33.0	132.0	8007	.171E-04	7139	.153E-04	6947	.157E-04	.160E-04
37	3.0	-51.0	132.0	7466	.158E-04	6553	.139E-04	6417	.145E-04	.147E-04
40	3.0	-69.0	132.0	6830	.143E-04	5890	.124E-04	5788	.130E-04	.132E-04
43	3.0	-87.0	132.0	5906	.121E-04	4996	.104E-04	4888	.108E-04	.111E-04
46	3.0	-105.0	132.0	5175	.103E-04	4313	.887E-05	4263	.931E-05	.948E-05
49	3.0	-126.0	132.0	4654	.904E-05	3768	.764E-05	3769	.813E-05	.826E-05
51	3.0	-156.0	132.0	3135	.538E-05	2381	.449E-05	2402	.486E-05	.490E-05
53	3.0	-186.0	132.0	2425	.367E-05	1779	.313E-05	2117	.418E-05	.365E-05
55	3.0	-216.0	132.0	1681	.187E-05	1092	.157E-05	1091	.172E-05	.172E-05
79	3.0	0.0	132.0	8832	.191E-04	7988	.172E-04	7814	.178E-04	.180E-04

RUN # 110

GEP TEST NO.8, 2.5M
100%,IN,BLER76::18,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S	1.74 M/S	14.98 M/S
EXIT VEL.	2.32 M/S	19.98 M/S	2.37 M/S	20.42 M/S	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S	.37E-03M3/S	.29E+03M3/S	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.64E+03		.16E+03		.10E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
67	.8	0.0	60.0	12829	.294E-04	17414	.391E-04	11558	.274E-04	.321E-04
70	.8	0.0	78.0	21721	.500E-04	25725	.577E-04	19693	.469E-04	.520E-04
73	.8	0.0	96.0	33743	.798E-04	35367	.798E-04	30589	.729E-04	.776E-04
75	.8	0.0	108.0	41409	.983E-04	39664	.895E-04	37488	.894E-04	.924E-04
77	.8	0.0	120.0	44831	.107E-03	39143	.883E-04	40971	.978E-04	.974E-04
79	.8	0.0	132.0	49189	.117E-03	40665	.918E-04	44563	.106E-03	.105E-03
81	.8	0.0	144.0	45447	.108E-03	35129	.793E-04	40627	.969E-04	.944E-04
84	.8	0.0	162.0	34119	.807E-04	23516	.529E-04	30771	.734E-04	.687E-04
87	.8	0.0	180.0	17803	.414E-04	11337	.253E-04	15943	.379E-04	.347E-04
91	.8	0.0	204.0	4849	.101E-04	2735	.583E-05	4031	.940E-05	.841E-05

RUN # 111

STACK #3

EX NO.3, 1M-8M
100%,OUT,BLER77::18,198

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S
EXIT VEL.	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06	
BACKGROUND	.62E+03	
CALIBRATION FACTOR	.43E-02	
STACK HEIGHT	25.40 CM	76.20 M
STACK DIAMETER	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
1	.3	15.0	0.0	674	.126E-06	.126E-06
2	.3	0.0	0.0	655	.831E-07	.831E-07
3	.3	-15.0	0.0	649	.696E-07	.696E-07
4	.6	30.0	0.0	1978	.305E-05	.305E-05
5	.6	15.0	0.0	852	.525E-06	.525E-06
6	.6	0.0	0.0	813	.438E-06	.438E-06
7	.6	-15.0	0.0	834	.485E-06	.485E-06
8	.6	-30.0	0.0	689	.159E-06	.159E-06
9	.9	30.0	0.0	2243	.365E-05	.365E-05
10	.9	15.0	0.0	2186	.352E-05	.352E-05
11	.9	0.0	0.0	1872	.282E-05	.282E-05
12	.9	-15.0	0.0	1786	.262E-05	.262E-05
13	.9	-30.0	0.0	1442	.185E-05	.185E-05
14	1.2	60.0	0.0	3174	.574E-05	.574E-05
15	1.2	30.0	0.0	3928	.743E-05	.743E-05
16	1.2	15.0	0.0	4042	.769E-05	.769E-05
17	1.2	0.0	0.0	4219	.808E-05	.808E-05
18	1.2	-15.0	0.0	4031	.766E-05	.766E-05
19	1.2	-30.0	0.0	3342	.612E-05	.612E-05
20	1.2	-60.0	0.0	1823	.271E-05	.271E-05
21	1.5	90.0	0.0	3449	.636E-05	.636E-05
22	1.5	60.0	0.0	4942	.971E-05	.971E-05
23	1.5	30.0	0.0	5965	.120E-04	.120E-04
24	1.5	0.0	0.0	6364	.129E-04	.129E-04
25	1.5	-30.0	0.0	4594	.893E-05	.893E-05
27	1.5	-90.0	0.0	1554	.210E-05	.210E-05
28	1.8	90.0	0.0	4420	.854E-05	.854E-05
29	1.8	60.0	0.0	6184	.125E-04	.125E-04
30	1.8	30.0	0.0	3306	.603E-05	.603E-05
31	1.8	0.0	0.0	7348	.151E-04	.151E-04
32	1.8	-30.0	0.0	5880	.118E-04	.118E-04
33	1.8	-60.0	0.0	3705	.693E-05	.693E-05
34	1.8	-90.0	0.0	2179	.350E-05	.350E-05
35	2.1	120.0	0.0	3757	.705E-05	.705E-05
36	2.1	90.0	0.0	5140	.102E-04	.102E-04
37	2.1	60.0	0.0	7253	.149E-04	.149E-04
38	2.1	30.0	0.0	8200	.170E-04	.170E-04
39	2.1	0.0	0.0	8011	.166E-04	.166E-04
40	2.1	-30.0	0.0	6532	.133E-04	.133E-04

RUN # 112

STACK #3

EX NO.3; 7M-15M
100%,OUT,BLER78::18,198

	MODEL	PROTOTYPE
VEL. AT STACK HT	1.63 M/S	14.04 M/S
EXIT VEL.	2.56 M/S	22.08 M/S
VOL. FLOW	.35E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06	
BACKGROUND	.49E+03	
CALIBRATION FACTOR	.45E-02	
STACK HEIGHT	25.40 CM	76.20 M
STACK DIAMETER	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (1/M*M)	TOTAL CONC. (1/M*M)
37	2.1	60.0	0.0	6460	.138E-04	.138E-04
38	2.1	30.0	0.0	7539	.163E-04	.163E-04
39	2.1	0.0	0.0	6886	.148E-04	.148E-04
40	2.1	-30.0	0.0	5330	.112E-04	.112E-04
41	2.1	-60.0	0.0	3901	.790E-05	.790E-05
46	2.4	60.0	0.0	7276	.157E-04	.157E-04
47	2.4	30.0	0.0	7834	.170E-04	.170E-04
48	2.4	0.0	0.0	7082	.153E-04	.153E-04
49	2.4	-30.0	0.0	5506	.116E-04	.116E-04
50	2.4	-60.0	0.0	4472	.923E-05	.923E-05
56	2.7	60.0	0.0	7393	.160E-04	.160E-04
57	2.7	30.0	0.0	7760	.168E-04	.168E-04
58	2.7	0.0	0.0	1291	.186E-05	.186E-05
59	2.7	-30.0	0.0	5646	.119E-04	.119E-04
60	2.7	-60.0	0.0	4694	.974E-05	.974E-05
66	3.0	90.0	0.0	6332	.135E-04	.135E-04
67	3.0	45.0	0.0	7575	.165E-04	.165E-04
68	3.0	0.0	0.0	6984	.150E-04	.150E-04
69	3.0	-45.0	0.0	5138	.108E-04	.108E-04
70	3.0	-90.0	0.0	3801	.767E-05	.767E-05
75	3.3	90.0	0.0	6185	.132E-04	.132E-04
76	3.3	45.0	0.0	7481	.162E-04	.162E-04
77	3.3	0.0	0.0	6809	.148E-04	.148E-04
78	3.3	-45.0	0.0	5344	.112E-04	.112E-04
79	3.3	-90.0	0.0	3769	.760E-05	.760E-05
84	3.6	90.0	0.0	496	.139E-07	.139E-07
85	3.6	45.0	0.0	7174	.155E-04	.155E-04
86	3.6	0.0	0.0	6716	.144E-04	.144E-04
87	3.6	-45.0	0.0	5014	.105E-04	.105E-04
88	3.6	-90.0	0.0	1865	.319E-05	.319E-05
93	3.9	90.0	0.0	6409	.137E-04	.137E-04
94	3.9	45.0	0.0	6950	.150E-04	.150E-04
95	3.9	0.0	0.0	6378	.136E-04	.136E-04
96	3.9	-45.0	0.0	5194	.109E-04	.109E-04
103	4.2	45.0	0.0	6698	.144E-04	.144E-04
104	4.2	0.0	0.0	6247	.133E-04	.133E-04
105	4.2	-45.0	0.0	5144	.108E-04	.108E-04
113	4.5	0.0	0.0	5908	.126E-04	.126E-04

APPENDIX C

Simulation of Plume Rise with Density Exaggeration

C.1 Interpretation of the 1985 Results

As depicted in Sec. 2.2, simulation of plume rise and dispersion in wind-tunnel models is based on matching all important dimensionless parameters which govern dispersion phenomenon in the model and prototype. When the wind tunnel is small, it is usually impossible to satisfy all those criteria and at the same time achieve a sufficiently large Reynolds number. In such a situation one needs to determine which parameters should be exaggerated based on the purpose of the study. The U.S. EPA Guideline 1 promulgated that a GEP study is to find a GEP stack height which is "necessary to insure that emissions from the stack do not result in excessive concentrations of any air pollutant in the immediate vicinity of the source as a result of atmospheric downwash, eddies or wakes which may be created by the source itself, nearby structures or nearby terrain obstacles." Furthermore, the Guideline 1 states that "the critical conditions for determining GEP stack height for most sources are considered likely to be high winds associated with neutral atmospheric stability with little plume rise near the sources. It is clear that a GEP study is to signify the aerodynamic effect of the stack itself and nearby structures. And it is preferred to be conducted in a higher wind situation because "A light wind, stable atmospheric flow is very sensitive to external influences, often resulting in great differences between even close sites." "Generally, moderate to high wind speeds with near neutral stability conditions can be expected to result in the more severe wakes, eddies and downwash." Therefore, the 1985 study was performed according to the U.S. EPA Demonstration Study which concentrates on the wake/downwash behavior by simulating the density ratio and exit-to-ambient velocity ratio under a strong wind condition.

This simulation technique led to a more conservative estimation of ground-level concentration than was measured during the 1984 study which used somewhat different modeling criteria, as described below.

Neither the 1985 nor the 1984 study used the exact simulation. (As a matter of fact, no one has conducted an atmospheric diffusion experiment using exact simulation.) The 1984 study was performed to examine the general plume behavior at BLES including accurate buoyancy modeling since it appeared that buoyancy and wake effects were interacting to cause an increase in general concentration with increasing wind speed at the ACE monitoring site. The 1985 study was conducted to emphasize the effect of nearby structures as recommended by the U.S. EPA Demonstration Study for GEP stack height. Therefore, the 1984 study simulated the Froude number correctly but exaggerated the density ratio and the momentum flux. The 1985 study simulated the density ratio and the momentum flux but exaggerated (in a negative sense, decreasing the effect of) the buoyant effect. In assessing actual ground-level concentration, the 1984 results are more representative since the buoyant effect is more dominant for far-field dispersion. The 1985 results may be interpreted to the prototype values according to the exact simulation scaling parameters:

$$\frac{U_{sm}}{U_{sp}} = \frac{W_{sm}}{W_{sp}} = \left(\frac{D_m}{D_p}\right)^{\frac{1}{2}} \quad \text{and}$$

$$\frac{Q_m}{Q_p} = \left(\frac{D_m}{D_p}\right)^{\frac{1}{2}} \quad \text{(from matching the Froude number in the model and prototype).}$$

Hence, the 1985 study, interpreted in terms of the 1984 modeling requirements, represents dispersion with higher wind speed (60.9 mph at 60 m meteorological tower) and higher effluent flux in the prototype than was used in the 1984 study.

C.2 Simulation of Plume Dispersion

Comparison of two data sets obtained in 1984 and 1985 for the BLES shows differences in ground-level concentration. The differences in concentration are due to differences in modeling criteria used. The two modeling criteria are appropriate for the purposes for which they are proposed and are consistent with each other when compared on a common basis. In order to estimate the mass ground-level concentration, a series of tests was performed (hereinafter referred to as 1985J) based on the 1984 simulation criteria.

C.2.1 Simulation Criteria for 1985J Tests

As stated in Sec. 2.2, a common practice in plume modeling which emphasizes the correct scaling of buoyant effects in the plume simulation, is to match all parameters including Froude number but exaggerate the density differences. Such a technique is considered more realistic in simulating the general plume behavior. Therefore, the similarity criteria for 1985J tests were kept the same as those used in the 1984 study, i.e.,

(1) Froude number equality

$$\frac{U_{sm}^2}{gD_m\gamma_m} = \frac{U_{sp}^2}{gD_p\gamma_p} \quad , \tag{C-1}$$

where $\gamma_m = \left(\frac{\Delta\rho}{\rho_a}\right)_m$ and $\gamma_p = \left(\frac{\Delta\rho}{\rho_a}\right)_p$

(2) Geometric similarity, $\left(\frac{D}{L}\right)_m = \left(\frac{D}{L}\right)_p$

(3) Exit-to-ambient velocity ratio similarity $\frac{W_m}{U_{sm}} = \frac{W_p}{U_{sp}}$

(4) Reynolds number independence, $Re = \frac{U_B H_s}{\nu_a} > 11{,}000$, and

(5) Similar velocity and turbulence profiles upwind.

For a scale ratio of 1:300, Equation (C-1) may be written as

$$\frac{U_{sm}}{U_{sp}} = \left(\frac{1}{300}\right)^{1/2} \left(\frac{\gamma_m}{\gamma_p}\right)^{1/2} \tag{C-2}$$

and

$$\frac{Q_m}{Q_p} = \left(\frac{D_m}{D_p}\right)^2 \frac{W_m}{W_p} = \left(\frac{1}{300}\right)^2 \frac{U_{sm}}{U_{sp}}$$

$$= \left(\frac{1}{300}\right)^{5/2} \left(\frac{\gamma_m}{\gamma_p}\right)^{1/2} \tag{C-3}$$

Equations (C-2) and (C-3), in addition to the Reynolds number independence criterion, were used to calculate model velocities and flow rates. The lower limit of U_m was determined by the Reynolds number independence requirement. At the local air density and a typical tunnel temperature, it yields the limitation

$$(U_m)_{\text{at 60m height}} \geq 0.898 \text{ m/sec}$$

For a full load operation, this corresponds to

$$(U_p)_{\text{at 60m height}} \geq 22 \text{ mph}$$

C.2.2 Test Program and Results for 1985J Tests

Table C.1 contains the run numbers, model parameters, BLES configurations and modeled wind speeds for this phase of study. Model flow rates, wind speeds and Froude numbers were calculated using plant operating conditions for full-power loads and minimum-power loads, as contained in Table 5.2. Table C.2 lists model and prototype parameters employed in this phase of study. Sixty-eight separate concentration data sets are tabulated in Appendix D in terms of mass concentration, gSO_2/m^3 air. Additional flow visualization experiments were performed on some representative tests. The test parameters/conditions which were documented on the videotape are summarized in Table C.3.

C.2.2.1 Dispersion from the existing stacks--1985J Series

Ground-level concentrations for full and minimum plant load are presented in Runs 267 and 263, respectively. Maximum ground-level concentrations are plotted versus downwind distance in Figures C.1 and C.2 for full and minimum plant load operation, respectively. The peak ground-level concentration occurs at $x = 0.6$ km for the minimum-load condition while it occurs at $x = 0.9$ km for the full-load condition. Lateral ground-level concentration profiles are listed in Runs 258 and 259 and displayed in Figures C.3 and C.4. These data represent concentration level monitored near Somers Point for a 198° wind. Figures C.5 and C.6 show the maximum ground-level concentration for a 270° wind from existing Stack 3 with presence of the proposed stack and additional duct structures. A complete set of data are included in Runs 260 and 261 for the full- and minimum-load conditions. These two sets of data may be used in conjunction with data from two-flue stack releases to estimate the resultant concentration from the combined releases (i.e., Units 1, 2 from the proposed stack plus Unit 3 from the existing Stack 3).

C.2.2.2 Dispersion from the proposed stack--1985J Series

Dispersion from the proposed stack is examined in this section for two stack heights, H_s = 117.3 m and 144.2 m. The stack height of 144.2 m is equivalent to 473 ft which can be rounded to 475 ft for design purposes without introducing any substantial error ($\leq$ 0.5%). Concentration data are contained in Appendix D.

Four series of four or five test runs with various model orientations were conducted to locate the "worst" wind direction. Since the 270° wind was found to result in maximum ground-level concentration for a 117.3 m stack under full-load condition (see Sec. 5.4), measurements were conducted mostly in the vicinity of 270°. Figure C.7

confirms that the 270° wind is the "worst" wind direction which results in maximum ground-level concentration at 2.7 km downstream of the stack.

Figures C.8 and C.9 show the concentration distributions with distance for a 117.3 m stack under full- and minimum-load operations while Figures C.10 and C.11 present results for a 144.2 m stack under the same load conditions, respectively. All figures show concentration profiles for various wind speeds. Discussions of the velocity effect upon the ground-level concentration are deferred to Sec. C.3.3.

One notices that in some test runs, concentration measurements were performed without the emission from Unit 3. The absence of Flue 3 emission resulted in higher ground-level concentrations by approximately 40 percent. This is attributed to the effect of merging plumes. Due to the close proximity of multiple sources, the plumes merged, as observed in the flow visualization, and thereby increased the effectiveness of the total vertical momentum and buoyancy from the individual plume. The ground-level concentrations were reduced by combining all the buoyancy to achieve a higher plume rise. Concentration data measured from the three-flues stack released without the emission of Unit 3 may be superimposed on Runs 260 or 261 to yield dispersions from existing Stack 3 and proposed stack Flues 1 and 2. The resultant concentrations obviously exceed the ground-level concentrations observed in three-flue releases for the same stack height and wind direction.

C.2.3 Concentration Measurements at Parkway Bridge

The north-south bound Garden State Parkway which connects Cape May County and Atlantic County in New Jersey is located east of the BLES. The Parkway Bridge, which is part of the Garden State Parkway, is laid across the Great Egg Harbor Bay about 1 km east of the BLES. The bridge

clearance over mean sea level is 15.2 m. About 4.6 m should be added to this value to obtain the approximate height of the bridge. Concentration measurements at Parkway Bridge were conducted at the mid-point location between the southern shore and Drag Island. This point is located 0.96 km downwind of the BLES for a wind direction of 266° from the north as measured from the U.S. Geological Survey Map.

Figures C.12 through C.14 present the vertical concentration profiles at Parkway Bridge. The bridge height, 19.8 m above sea level, is indicated in all figures. The peak concentration occurred on the ground for the 76.2 m stacks under minimum-load operation due to the building wake effect and stack downwash. The peak concentration occurred at a height of 90 m due to higher effluent velocity when the plant operation shifts from minimum to full load. For the 117.3 m combined stack, the peak concentration occurred at a height of 110 m under the minimum-load operation. It is obvious that the peak concentration appeared at a position greater than 110 m above sea level for the 117.3 m stack, full-load case because of higher effluent-to-ambient velocity ratio. In any case, the Parkway Bridge escapes from the peak concentration in the vertical direction for the taller stack. The highest SO_2 concentration level monitored at the Parkway Bridge resulted from the 76.2 m stack, minimum-load operation at BLES. Increasing the stack height from the present configuration will only decrease the SO_2 concentration level at the Parkway Bridge.

C.3 Comparison of 1984/1985J BLES Concentration Data

C.3.1 Variation of Ground-level Concentration Due to Plant Load Operations

It is understandable that a field engineer would try to reduce the ground-level concentration from a stack by shifting from full-load

operation to minimum load operation. However, the resulting ground-level concentration may or may not decrease because the ground-level concentration is not only a function of stack emission rate but also a function of downwind distance and effective stack height. The following example is given to illustrate changes in ground-level concentration due to plant-load variations.

Consider a situation such as

$$(Q_p)_{\text{full load}} = 850\ g/m^3,$$
$$(Q_p)_{\text{min load}} = 400\ g/m^3, \quad \text{and}$$
$$U_{sp} = 14.0\ m/s.$$

If the effective stack height for full-load operation resulting from actual stack height plus plume rise due to buoyancy is equal to 100 m while for minimum-load operation the effective stack height is 70 m due to the stack downwash effect or building-wake effect, the following table may be established according to the Pasquill-Gifford curves for neutral stability, Figure C.15.

Downwind Distance		1 km	2 km	3 km	10 km
Full load	$\frac{\chi u}{Q}\ \frac{1}{m^2}$	1.0×10^{-6}	6.8×10^{-6}	8.0×10^{-6}	3.5×10^{-6}
	$\chi\ \frac{\mu g}{m^3}$	61	413	486	212
Min load	$\frac{\chi u}{Q}\ \frac{1}{m^2}$	1.3×10^{-5}	1.9×10^{-5}	1.5×10^{-5}	3.7×10^{-6}
	$\chi\ \frac{\mu g}{m^3}$	371	543	429	106
$\frac{\text{Min}}{\text{Full}}$	$\frac{\chi_{\text{min load}}}{\chi_{\text{full load}}}$	6.08	1.31	0.883	0.5

The plumes selected were for ease of illustration and not because of a similarity with the BLES. No attempt has been made to calculate actual plume rise for the BLES because of the lack of an adequate wake interaction model.

It is obvious that shifting from full-load to minimum-load operation does not necessarily mean reduction in the ground-level concentration. The reduction factor, $\chi_{\text{min load}}/\chi_{\text{full load}}$, is a function of downwind distance, effective stack height and the stack emission rate. A comparison of ground-level concentration at a particular location cannot be used as a general rule applicable to all other locations.

C.3.2 Review of the 1984 Experiments

The 1984 study was conducted basically to investigate the effect of the boiler building complex upon ground-level concentration of stack effluents at selected wind directions and velocities and to rate the effectiveness of proposed solutions. Hence, attention was concentrated on the existing stack configuration and alterations of the existing stacks. In addition, a few runs were performed to compare the concentrations from a new three-flue combined stack. Some differences were found between the 1984 and 1985J studies. These differences existed due to different purposes of the studies which do not imply any inconsistency of the test configurations and experimental results.

1. The 1984 study incidentally used the wind speed at 60 m height meteorological tower as the gradient wind speed while the 1985J study used the gradient wind speed as it is (the gradient wind is defined as air flowing over a boundary layer which is not affected by the surface friction). Therefore, the wind speed at 60 m height meteorological tower is systematically lower than it was intended in the 1984 study.

Table C.4 lists the wind speed at 60 m height converted from the free-stream velocity based on the velocity profile.

2. The diameters of flues in the combined stack were kept the same as those of the corresponding existing stacks in the 1984 study, i.e., 3.66 m, 4.02 m and 3.96 m. The diameters of flues were later set at 4.14 m, 4.23 m and 3.96 m for the 1985 proposed stack. Consequently, the stack effluent velocity was reduced by 28 percent and 11 percent for Units 1 and 2, respectively.

C.3.3 Comparison of Results

Ground-level concentrations are plotted versus various wind speeds for the existing stack configuration in Figures C.16 and C.17. These figures are also presented to examine the consistency between the two wind-tunnel measurements. The 1984 data have been reassigned wind speeds at 60 m height meteorological tower which would be correct for the modeling parameters used in the 1985J study. Results are shown in terms of $\mu g/m^3$. All data represent means of 10 min or less in the prototype. The ground-level concentration monitored at Somers Point in the model under a full load, 198°, H_s = 76.2 m, U_p = 30.3 mph condition is 1900 $\mu g/m^3$. The maximum ground-level concentrations are also displayed in the figures. The 1985J data agree well with the 1984 data in both the maximum concentration and concentration at Somers Point. However, the maximum ground-level concentration becomes significantly greater than the concentration observed at Somers Point as wind speed increases in both studies.

Figures C.18 and C.19 show the variation of ground-level concentration in terms of wind speed for the 117.3 m stack. The

signal-to-noise level for the 117.3 m stack, full-load, 198°, U_p = 21.7 mph case were low in the 1984 study. Therefore, the error is expected to be ±30 percent which explains the deviation in Figure C.18. Figures C.20 and C.21 present similar analyses for a 144.2 m stack. The shapes of the curves in Figures C.16 through C.21 vary from lower stack to higher stack and from full-load operation to minimum-load operation.

If the 1985J results were reassigned with wind speed to be consistent with the 1984 test, all conclusions would remain unchanged except changing the wind speed at 60 m height to corresponding wind speed at gradient level in Figures C.16 through C.21 according to the velocity profile. Since the field wind condition is referred to winds at 60 m meteorological tower it is more convenient to present data based on wind speed at 60 m height so that no extra conversion needs to be done from gradient wind to wind at 60 m height.

C.4 Discussion

A horizontal line has been drawn on Figures C.16 through C.21 at 40 percent of the 1900 $\mu g/m^3$ (concentration at Somers Point for a 76.2 m stack, full-load, 198°, U_p = 30.3 mph case) to aid in determination of acceptability of results for all stacks. This 40 percent value represents the level of concentration which ACE personnel have estimated is needed to prevent air quality standard exceedances. Comparison of data on the figures with this line shows that at Somers Point the current stacks result in unacceptable concentration for wind speeds in excess of 21.5 mph under full-load operation and 17 mph under minimum-load operation. Furthermore, as observed from curves of the maximum ground-level concentration in Figures C.16 and C.17, wind speed should not exceed 18 mph or 15 mph under full- or minimum-load conditions, respectively,

so that ground-level concentrations in the vicinity of the BLES can satisfy the acceptability criterion. Similarly, the 117.3 m and 144.2 m stacks result in unacceptable concentration for wind speeds in excess of 31 mph and 34 mph under full-load operation and 25 mph and 28 mph for the minimum-load operation, respectively.

Table C.5 summarizes the ground-level concentrations for three different stack heights under a wind speed of 30.3 mph at 60 m height. Tables C.6, C.7 and C.8 present similar analyses for wind speeds of 28 mph, 25 mph and 21.7 mph, respectively. Based on the same acceptability criteria, two conclusions can be reached for the BLES to avoid unacceptable concentration in the vicinity of the plant.

1. For a 117.3 m stack, the plant can be operated with full-load capacity without exceeding the acceptability criteria. Shifting from full-load operation to minimum-load operation will exceed the acceptability criteria.
2. For a 144.2 m stack, the plant can be operated with full-load capacity without exceeding the acceptability criteria. Shifting from full-load operation to minimum-load operation will meet the acceptability criteria.

Table C.1. Run numbers and model parameters used on BLES wind-tunnel tests, 1985J Series (with Froude number scaling).

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1			UNIT #2			UNIT #3			Wind Speed at 60m (mph)	Concentration Measurement	Data File
					Stack Ht. (cm)	Stack Temp. (°F)	Vol. Flow $m^3/sx10^{-6}$	Stack Ht. (cm)	Stack Temp. (°F)	Vol. Flow $m^3/sx10^{-6}$	Stack Ht. (cm)	Stack Temp. (°F)	Vol. Flow $m^3/sx10^{-6}$			
201	Full	250	1.55	IN	39.1	270	270	39.1	285	288	39.1	310	273	30.3	Ground, 2m-15m	BLE201
202	Full	270	1.55	IN	39.1	270	270	39.1	285	288	39.1	310	273	30.3	Ground, 3m-16m	BLE202
203	Full	290	1.55	IN	39.1	270	270	39.1	285	288	39.1	310	273	30.3	Ground, 2m-16m	BLE203
204	Full	250	1.55	IN	39.1	270	270	39.1	285	288	39.1	0	0	30.3	Ground, 2m-14m	BLE204
205	Full	270	1.55	IN	39.1	270	270	39.1	285	288	39.1	0	0	30.3	Ground, 2m-14m	BLE205
206	Full	230	1.55	IN	39.1	270	270	39.1	285	288	39.1	0	0	30.3	Ground, 2m-14m	BLE206
207	Full	198	1.55	IN	39.1	270	270	39.1	285	288	39.1	0	0	30.3	Ground, 9m	BLE207
208	Full	198	1.39	IN	39.1	270	270	39.1	285	288	39.1	310	273	27	Ground, 3m-9m	BLE208
209	Full	198	1.29	IN	39.1	270	270	39.1	285	288	39.1	310	273	25	Ground, 3m-9m	BLE209
210	Full	250	1.55	IN	48.0	270	270	48.0	285	288	48.0	310	273	30.3	Ground, 3m-16m	BLE210
211	Full	270	1.55	IN	48.0	270	270	48.0	285	288	48.0	310	273	30.3	Ground, 3m-16m	BLE211
212	Full	290	1.55	IN	48.0	270	270	48.0	285	288	48.0	310	273	30.3	Ground, 3m-16m	BLE212
213	Full	270	1.55	IN	48.0	270	270	48.0	285	288	48.0	310	273	30.3	Ground, 9m-16m	BLE213
214	Full	270	1.29	IN	48.0	270	270	48.0	285	288	48.0	310	273	25	Ground, 3m-16m	BLE214
215	Full	270	1.93	IN	48.0	270	270	48.0	285	288	48.0	310	273	37.5	Ground, 3m-16m	BLE215

Table C.1. (continued).

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/sx10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/sx10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
216	Full	270	2.31	IN	48.0	270	270	48.0	285	288	48.0	310	273	45	Ground, 2m-16m	BLE216
217	Full	270	2.70	IN	48.0	270	270	48.0	285	288	48.0	310	310	52.5	Ground, 1m-13m	BLE217
218	Full	250	1.55	IN	48.0	270	270	48.0	285	288	48.0	0	0	30.3	Ground, 4m-16m	BLE218
219	Full	270	1.55	IN	48.0	270	270	48.0	285	288	48.0	0	0	30.3	Ground, 4m-16m	BLE219
220	Full	290	1.55	IN	48.0	270	270	48.0	285	288	48.0	0	0	30.3	Ground, 4m-16m	BLE220
221	Full	198	1.55	IN	48.0	270	270	48.0	285	288	48.0	310	310	30.3	Ground, 9m	BLE221
222	Full	198	1.55	IN	48.0	270	270	48.0	285	288	48.0	0	0	30.3	Ground, 9m	BLE222
223	Min	198	1.63	IN	39.1	260	120	39.1	260	128	39.1	260	128	30.3	Ground, 1m-12m	BLE223
224	Min	220	1.63	IN	39.1	260	120	39.1	260	128	39.1	260	128	30.3	Ground, 1m-12m	BLE224
225	Min	250	1.62	IN	39.1	260	120	39.1	260	128	39.1	260	128	30.3	Ground, 1m-12m	BLE225
226	Min	270	1.63	IN	39.1	260	120	39.1	260	128	39.1	260	128	30.3	Ground, 1m-12m	BLE226
227	Min	290	1.63	IN	39.1	260	120	39.1	260	128	39.1	260	128	30.3	Ground, 2m-12m	BLE227
228	Min	270	1.08	IN	39.1	260	120	39.1	260	128	39.1	260	128	20	Ground, 1m-12m	BLE228
229	Min	270	1.34	IN	39.1	260	120	39.1	260	128	39.1	260	128	25	Ground, 1m-12m	BLE229
230	Min	270	2.02	IN	39.1	260	120	39.1	260	128	39.1	260	128	37.5	Ground, 1m-12m	BLE230

Table C.1. (continued).

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1			UNIT #2			UNIT #3			Wind Speed at 60m (mph)	Concentration Measurement	Data File
					Stack Ht. (cm)	Stack Temp. (°F)	Vol. Flow $m^3/sx10^{-6}$	Stack Ht. (cm)	Stack Temp. (°F)	Vol. Flow $m^3/sx10^{-6}$	Stack Ht. (cm)	Stack Temp. (°F)	Vol. Flow $m^3/sx10^{-6}$			
231	Min	270	2.42	IN	39.1	260	120	39.1	260	128	39.1	260	128	45	Ground, 1m-10m	BLE231
232	Min	270	2.82	IN	39.1	260	120	39.1	260	128	39.1	260	128	52.5	Ground, 1m-10m	BLE232
233	Min	250	1.63	IN	39.1	260	120	39.1	260	128	39.1	0	0	30.3	Ground, 2m-13m	BLE233
234	Min	270	1.63	IN	39.1	260	120	39.1	260	128	39.1	0	0	30.3	Ground, 2m-13m	BLE234
235	Min	290	1.63	IN	39.1	260	120	39.1	260	128	39.1	0	0	30.3	Ground, 2m-13m	BLE235
236	Min	198	1.63	IN	39.1	260	120	39.1	260	128	39.1	0	0	30.3	Ground, 9m	BLE236
237	Full	198	1.55	IN	39.1	270	270	39.1	285	288	39.1	310	273	30.3	Ground, 9m	BLE237
238	Full	198	1.55	IN	39.1	270	270	39.1	285	288	39.1	310	273	30.3	Ground, 9m	BLE238
239	Min	250	1.63	IN	48.0	260	120	48.0	260	128	48.0	260	128	30.3	Ground, 2m-16m	BLE239
240	Min	270	1.63	IN	48.0	260	120	48.0	260	128	48.0	260	128	30.3	Ground, 2m-16m	BLE240
241	Min	290	1.63	IN	48.0	260	120	48.0	260	128	48.0	260	128	30.3	Ground, 2m-16m	BLE241
242	Full	198	1.55	IN	39.1	270	270	39.1	285	288	39.1	310	273	30.3	Ground, 3m-9m	BLE242
243	Min	270	1.34	IN	48.0	260	120	48.0	260	128	48.0	260	128	25	Ground, 2m-16m	BLE243
244	Min	270	2.02	IN	48.0	260	120	48.0	260	128	48.0	260	128	37.5	Ground, 2m-14m	BLE244
245	Min	270	2.42	IN	48.0	260	120	48.0	260	128	38.0	260	128	45	Ground, 2m-14m	BLE245

Table C.1. (continued).

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/sx10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/sx10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
246	Min	270	2.82	IN	48.0	260	120	48.0	260	128	48.0	260	128	52.5	Ground, 2m-14m	BLE246
247	Min	250	1.63	IN	48.0	260	120	48.0	260	128	48.0	0	0	30.3	Ground, 2m-14m	BLE247
248	Min	270	1.63	IN	48.0	260	120	48.0	260	128	48.0	0	0	30.3	Ground, 2m-14m	BLE248
249	Min	290	1.63	IN	48.0	260	120	48.0	260	128	48.0	0	0	30.3	Ground, 2m-14m	BLE249
250	Min	198	1.63	IN	48.0	260	120	48.0	260	128	48.0	260	128	30.3	Ground, 9m	BLE250
251	Min	198	1.63	IN	48.0	260	120	48.0	260	128	48.0	0	0	30.3	Ground, 9m	BLE251
252	Full	198	1.55	IN	39.1	270	270	39.1	285	288	39.1	310	273	30.3	Ground, 9m	BLE252
253	Min	198	1.63	IN	39.1	260	120	39.1	260	128	39.1	260	128	30.3	Ground, 9m	BLE253
254	Full	270	1.29	IN	39.1	270	270	39.1	285	288	39.1	310	273	25	Ground, 2m-16m	BLE254
255	Full	270	1.93	IN	39.1	270	270	39.1	285	288	39.1	310	273	37.5	Ground, 2m-15m	BLE255
256	Full	270	2.31	IN	39.1	270	270	39.1	285	288	39.1	310	273	45	Ground, 2m-15m	BLE256
257	Full	270	2.70	IN	39.1	270	270	39.1	285	288	39.1	310	273	52.5	Ground, 2m-15m	BLE257
258	Min	198	1.63	IN	25.4	260	120	25.4	260	128	25.4	260	128	30.3	Ground, 9m	BLE258
259	Full	198	1.55	IN	25.4	270	270	25.4	285	288	25.4	310	273	30.3	Ground, 9m	BLE259
260	Full	270	1.55	IN	39.1	0	0	39.1	0	0	25.4	310	273	30.3	Ground, 1m-9m	BLE260

Table C.1. (continued).

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	UNIT #1 Stack Ht. (cm)	UNIT #1 Stack Temp. (°F)	UNIT #1 Vol. Flow $m^3/sx10^{-6}$	UNIT #2 Stack Ht. (cm)	UNIT #2 Stack Temp. (°F)	UNIT #2 Vol. Flow $m^3/sx10^{-6}$	UNIT #3 Stack Ht. (cm)	UNIT #3 Stack Temp. (°F)	UNIT #3 Vol. Flow $m^3/sx10^{-6}$	Wind Speed at 60m (mph)	Concentration Measurement	Data File
261	Min	270	1.63	IN	39.1	0	0	39.1	0	0	25.4	260	128	30.3	Ground, 1m-9m	BLE261
262	Min	266	1.63	IN	25.4	260	120	25.4	260	128	25.4	260	128	30.3	Vertical, 0.96m	BLE262
263	Min	198	1.63	IN	25.4	260	120	25.4	260	128	25.4	250	128	30.3	Ground, 1m-9m	BLE263
264	Min	266	1.63	IN	39.1	260	120	39.1	250	128	39.1	260	128	30.3	Vertical, 0.96m	BLE264
265	Full	266	1.55	IN	25.4	270	270	25.4	285	288	25.4	310	273	30.3	Vertical, 0.96m	BLE265
266	Full	266	1.55	IN	25.4	270	270	25.4	285	288	25.4	310	273	30.3	Vertical, 0.96m	BLE266
267	Full	198	1.55	IN	25.4	270	270	25.4	285	288	25.4	310	273	30.3	Ground, 1m-9m	BLE267

Table C.2. Model and prototype parameters for the BLES evaluations (with density exaggeration).

Parameters	FULL LOAD, EXISTING STACKS					
	Stack #1		Stack #2		Stack #3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	1.55	17.24	1.55	17.24	1.55
3. Effluent Velocity W_s (m/s)	25.57	2.29	22.57	2.03	22.07	1.98
4. Effluent Temperature (°K)	405.2	293	414.3	293	427.4	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.706	0.279	0.690	0.240	0.669	0.188
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 76.2 m)	1.82	1.82	1.61	1.61	1.57	1.57
8. Stack Diameter, D(m)	3.66	0.0122	4.02	0.0134	3.96	0.0132
9. Volume Flow, Q(m^3/s)	269	2.70×10^{-4}	286.5	2.88×10^{-4}	271.9	2.73×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	7.88	7.80	6.47	6.43	6.15	6.11
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s} \frac{D}{H_s}$	0.0386	0.0231	0.0353	0.0208	0.0334	0.0177

Table C.2. (continued)

Parameters	MIN LOAD, EXISTING STACKS					
	Stack #1		Stack #2		Stack #3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	1.63	17.24	1.63	17.24	1.63
3. Effluent Velocity W_s (m/s)	25.57	1.03	22.57	0.909	22.07	0.934
4. Effluent Temperature (°K)	399.7	293	399.7	293	399.7	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.715	0.279	0.715	0.240	0.715	0.188
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 76.2 m)	0.798	0.798	0.689	0.689	0.682	0.682
8. Stack Diameter, D(m)	3.66	0.0122	4.02	0.0134	3.96	0.0132
9. Volume Flow, Q(m^3/s)	118	1.20×10^{-4}	122.7	1.28×10^{-4}	118.0	1.28×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	3.50	3.51	2.89	2.88	2.88	2.88
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s}\frac{D}{H_s}$	0.0162	0.0101	0.0154	0.00890	0.0150	0.00768

Table C.2. (continued)

Parameters	FULL LOAD, PROPOSED STACKS					
	Stack #1		Stack #2		Stack #3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	1.55	17.24	1.55	17.24	1.55
3. Effluent Velocity W_s (m/s)	19.98	1.80	20.42	1.84	22.08	1.98
4. Effluent Temperature (°K)	405.2	293	414.3	293	427.4	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.706	0.279	0.690	0.240	0.669	0.188
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 117.3 m)	1.33	1.33	1.36	1.36	1.47	1.47
8. Stack Diameter, D(m)	4.14	0.0138	4.22	0.0141	3.96	0.0132
9. Volume Flow, Q(m^3/s)	269.0	2.70×10^{-4}	286.5	2.88×10^{-4}	271.9	2.73×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	5.78	5.78	5.70	5.68	6.16	6.11
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s}\frac{D}{H_s}$	0.0197	0.0124	0.0203	0.0120	0.0203	0.0108

Table C.2. (continued)

Parameters	MIN LOAD, PROPOSED STACKS					
	Stack #1		Stack #2		Stack #3	
	Prototype	Model	Prototype	Model	Prototype	Model
1. Scale	300	1	300	1	300	1
2. Free Stream Velocity (m/s)	17.24	1.63	17.24	1.63	17.24	1.63
3. Effluent Velocity W_s (m/s)	8.76	0.807	8.77	0.825	9.58	0.933
4. Effluent Temperature (°K)	399.7	293	399.7	293	399.7	293
5. Ambient Temperature (°K)	285.9	293	285.9	293	285.9	293
6. Density Ratio (ρ_s/ρ_a)	0.715	0.279	0.715	0.240	0.715	0.188
7. Effluent-to-Wind-Speed Ratio at Stack Exit (H_s = 117.3 m)	0.585	0.585	0.585	0.585	0.639	0.639
8. Stack Diameter, D(m)	4.14	0.0138	4.22	0.0141	3.96	0.0132
9. Volume Flow, Q(m^3/s)	118.0	1.20×10^{-4}	122.7	1.28×10^{-4}	118.0	1.28×10^{-4}
10. Froude Number, $Fr\left(\frac{W_s}{\sqrt{g\Delta\gamma D}}\right)$	2.58	2.58	2.55	2.54	2.88	2.88
11. Momentum Ratio $\frac{\ell_m}{H_s} = \frac{1}{2}\left[\frac{\rho_s}{\rho_a}\right]^{\frac{1}{2}} \frac{W_s}{U_s}\frac{D}{H_s}$	0.00873	0.00545	0.00890	0.00516	0.00912	0.00467

Table C.3. Run numbers and model parameters of flow visualization study in BLES wind-tunnel tests, 1985J, (with Froude number scaling).

Run No.	Power Load	Wind Dir.	Tunnel Speed (m/s)	Model Building	Wind Speed at 60m (mph)	Stack Configuration
202	Full	270	1.55	IN	30.3	117.3 m stack, 3 flues
205	Full	270	1.55	IN	30.3	117.3 m stack, 2 flues
211	Full	270	1.55	IN	30.3	144.2 m stack, 3 flues
219	Full	270	1.55	IN	30.3	144.2 m stack, 2 flues
226	Min	270	1.63	IN	30.3	117.3 m stack, 3 flues
234	Min	270	1.63	IN	30.3	117.3 m stack, 2 flues
240	Min	270	1.63	IN	30.3	144.2 m stack, 3 flues
248	Min	270	1.63	IN	30.3	144.2 m stack, 2 flues
260	Full	270	1.55	IN	30.3	117.3 m stack and 76.2 m stack
261	Min	270	1.63	IN	30.3	117.3 m stack and 76.2 m stack

Table C.4. Conversion of wind speed for 1984 BLES study.

Gradient Wind Speed U_{∞} (mph)	Wind Speed at 60m Height U_{60m} (mph)*
20.0	14.5
22.5	16.3
25.0	18.1
30.0	21.7
37.5	27.2
45.0	32.6
52.5	38.1

*Based on measured velocity profile

Table C.5. Summary of ground-level concentration for a wind speed of 30.3 mph at 60 m height.

Load	Units on Line	Condition	Stack Height (m)		
			Existing (76.2)	117.3	144.2
Full (100%)	1, 2, 3	Maximum Concentration and Location	3070 (0.9 km/198°WD)	700 (2.4 km/270°WD)	365 (2.7 km/270°WD)
	1, 2	Maximum Concentration and Location	2770 (0.9 km/198°WD)	1040 (2.4 km/270°WD)	598 (2.7 km/270°WD)
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	1900	330	193
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	1730	373	286
Min. (40%)	1, 2, 3	Maximum Concentration and Location	5500 (0.6 km/198°WD)	1200 (1.5 km/270°WD)	860 (2.4 km/270°WD)
	1, 2	Maximum Concentration and Location	4340 (0.6 km/198°WD)	1730 (1.5 km/270°WD)	1020 (2.4 km/270°WD)
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	1950	1000	790
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	1840	1250	865

Table C.6. Summary of ground-level concentration for a wind speed of 28 mph at 60 m height.

Load	Units on Line	Condition	Stack Height (m)		
			Existing (76.2)	117.3	144.2
Full (100%)	1, 2, 3	Maximum Concentration and Location	2550 (≅1.2 km/198°WD)	520 (≅2.4 km/270°WD)	280 (≅2.7 km/270°WD)
	1, 2	Maximum Concentration and Location	2200 (≅1.2 km/198°WD)	--	--
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	1600	290	260 (≅2.7 km/270°WD)
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	1350	--	--
Min. (40%)	1, 2, 3	Maximum Concentration and Location	5200 (0.6 km/198°WD)	1000 (≅1.5 km/270°WD)	760 (≅2.4 km/270°WD)
	1, 2	Maximum Concentration and Location	4900 (0.6 km/198°WD)	-- (≅1.5 km/270°WD)	--
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	1710	760	730 (2.7 km/270°WD)
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	1560	--	--

Table C.7. Summary of ground-level concentration for a wind speed of 25 mph at 60 m height.

Load	Units on Line	Condition	Stack Height (m)		
			Existing (76.2)	117.3	144.2
Full (100%)	1, 2, 3	Maximum Concentration and Location	1850 (1.6 km/198°WD)	320	210
	1, 2	Maximum Concentration and Location	1500 (≅1.6 km/198°WD)	--	--
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	1200	150	180
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	1000	--	--
Min. (40%)	1, 2, 3	Maximum Concentration and Location	4500 (0.6 km/198°WD)	730	480
	1, 2	Maximum Concentration and Location	3800 (0.6 km/198°WD)	--	--
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	1600	700	--
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	1500	--	--

Table C.8. Summary of ground-level concentration for a wind speed of 21.7 mph at 60 m height.

Load	Units on Line	Condition	Stack Height (m)		
			Existing (76.2)	117.3	144.2
Full (100%)	1, 2, 3	Maximum Concentration and Location	1050 (1.5 km/198°WD)	--	--
	1, 2	Maximum Concentration and Location	900 (≅1.5 km/198°WD)	--	--
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	920	150	--
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	800	--	--
Min. (40%)	1, 2, 3	Maximum Concentration and Location	3600 (0.6 km/198°WD)	--	--
	1, 2	Maximum Concentration and Location	3400 (0.6 km/198°WD)	--	--
	1, 2, 3	Concentration at Somers Point (2.7 km/198°WD)	1400	630	--
	1, 2	Concentration at Somers Point (2.7 km/198°WD)	1330	--	--

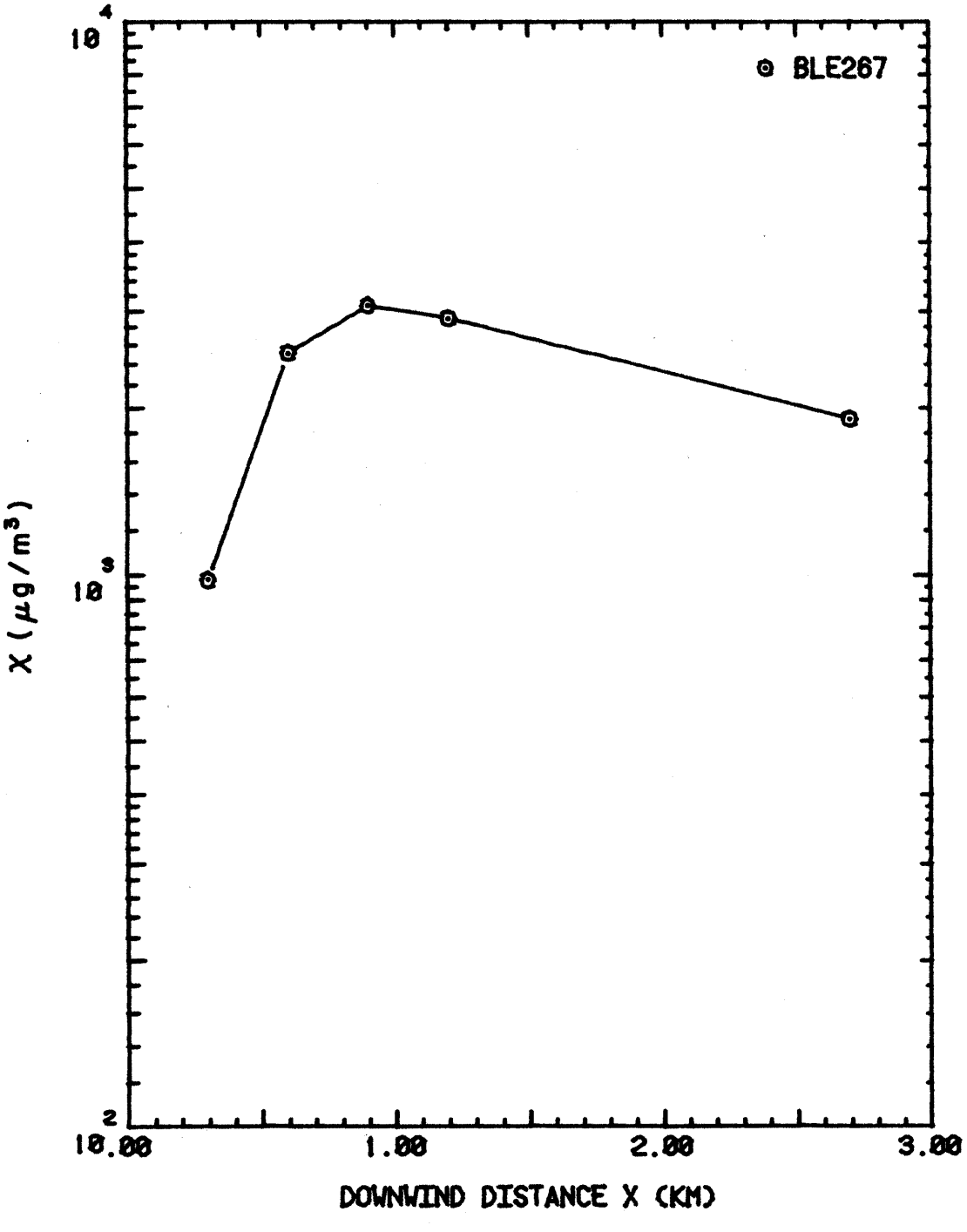

Figure C.1. Ground-level concentrations for the existing stacks, full load, 198°, 30.3 mph at 60 m.

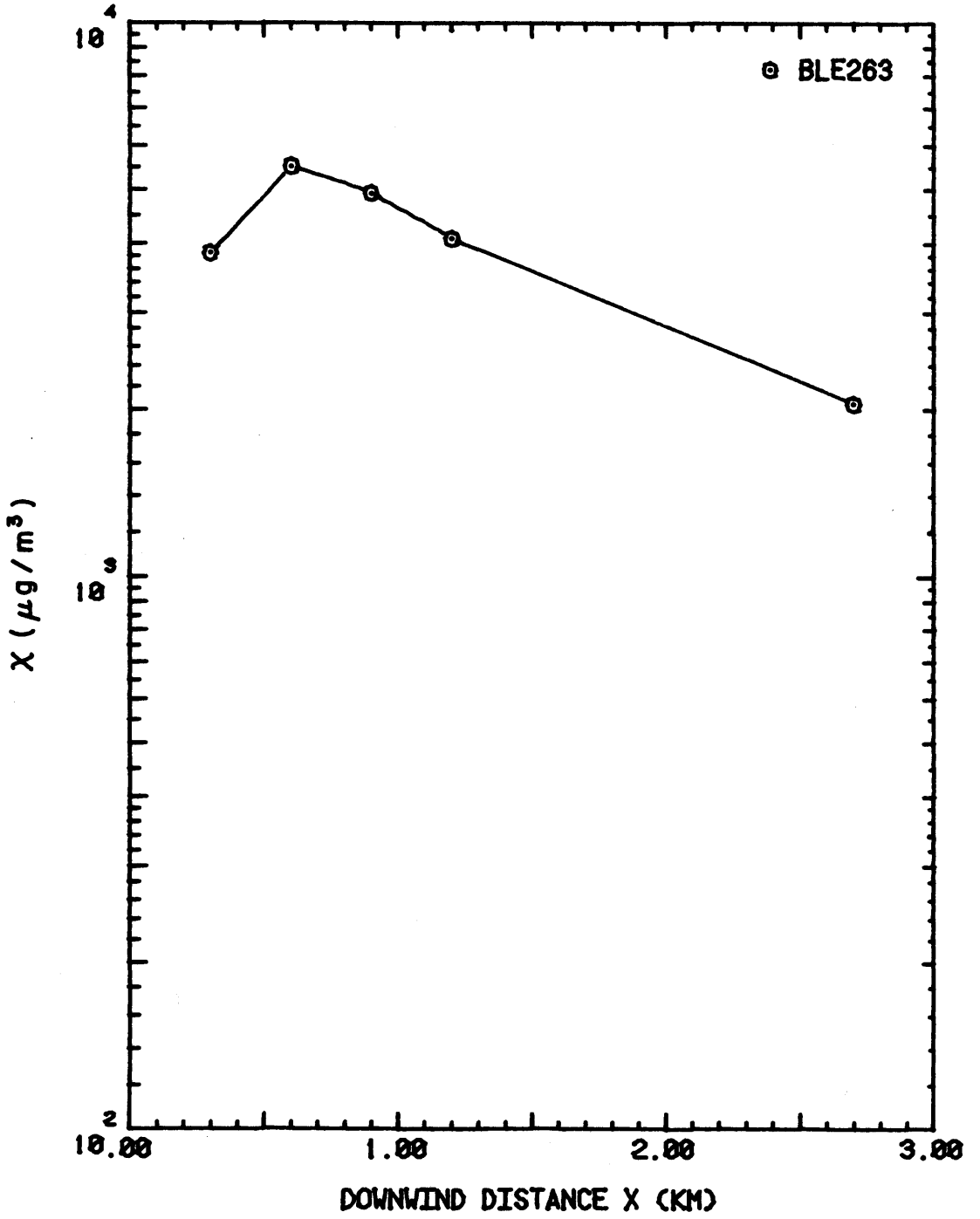

Figure C.2. Ground-level concentrations for the existing stacks, min load, 198°, 30.3 mph at 60 m.

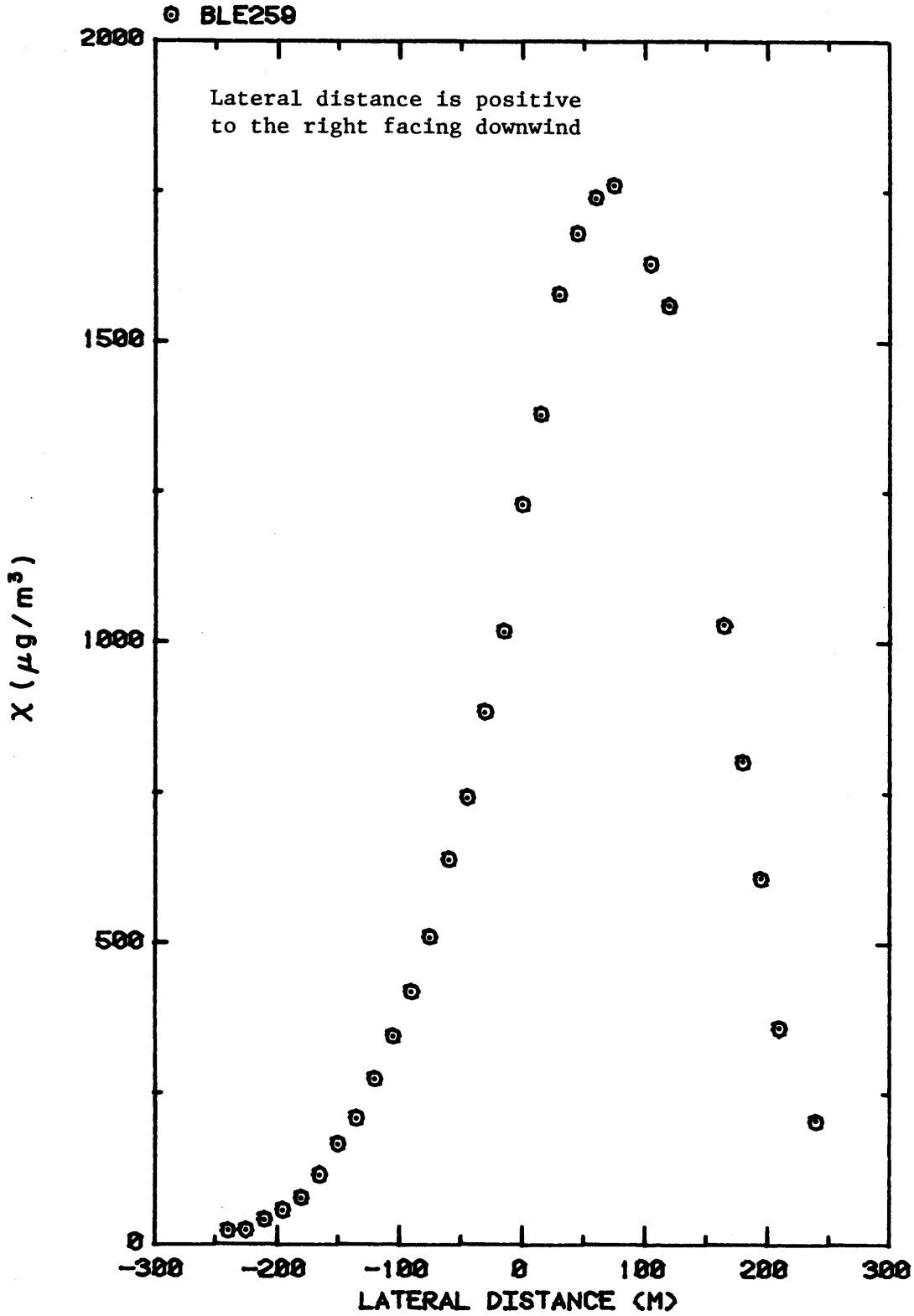

Figure C.3. Lateral ground-level concentration profile at Somers Point for the existing stacks, full load, 198°, 30.3 mph at 60 m.

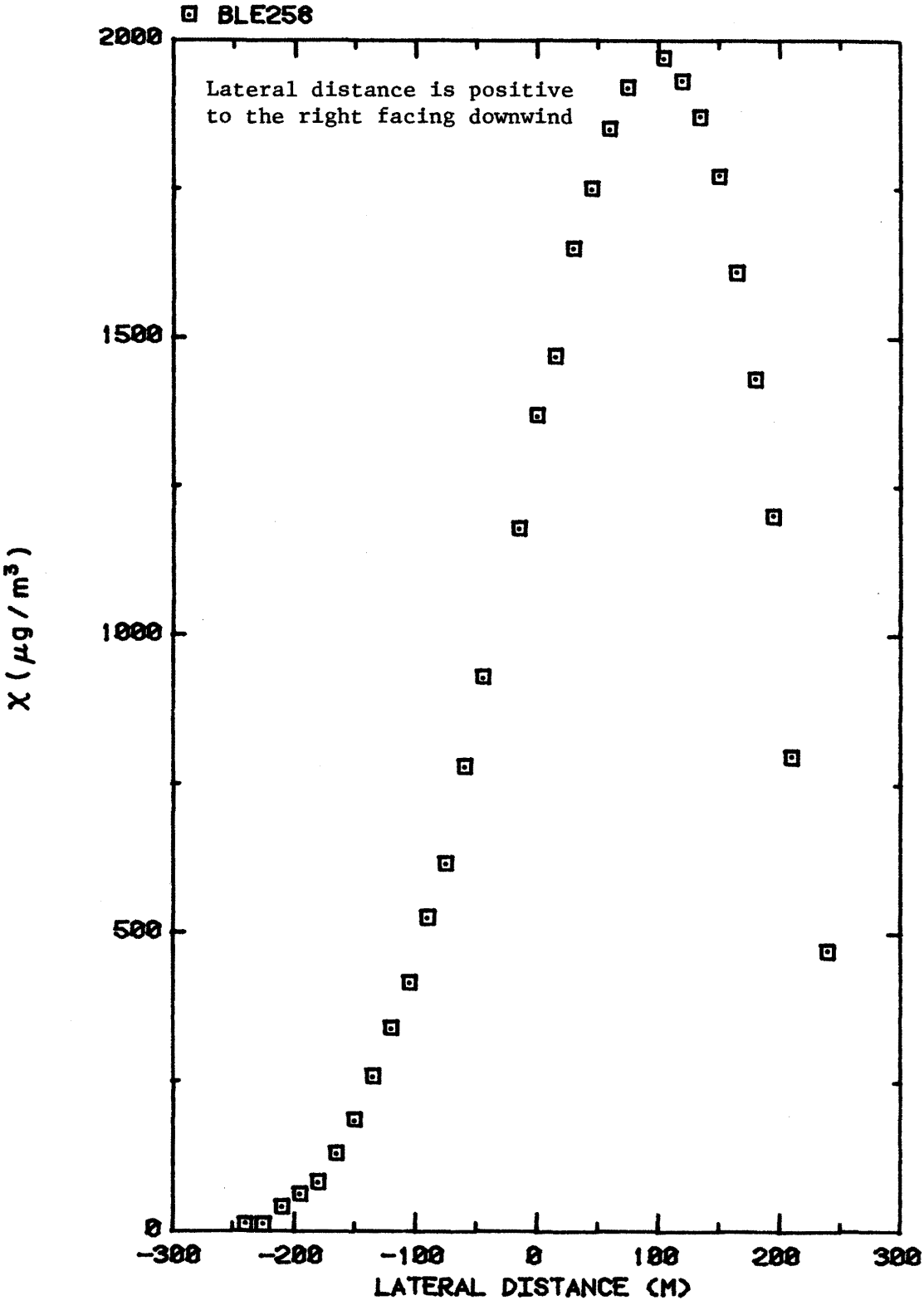

Figure C.4. Lateral ground-level concentration profile at Somers Point for the existing stacks, min load, 198°, 30.3 mph at 60 m.

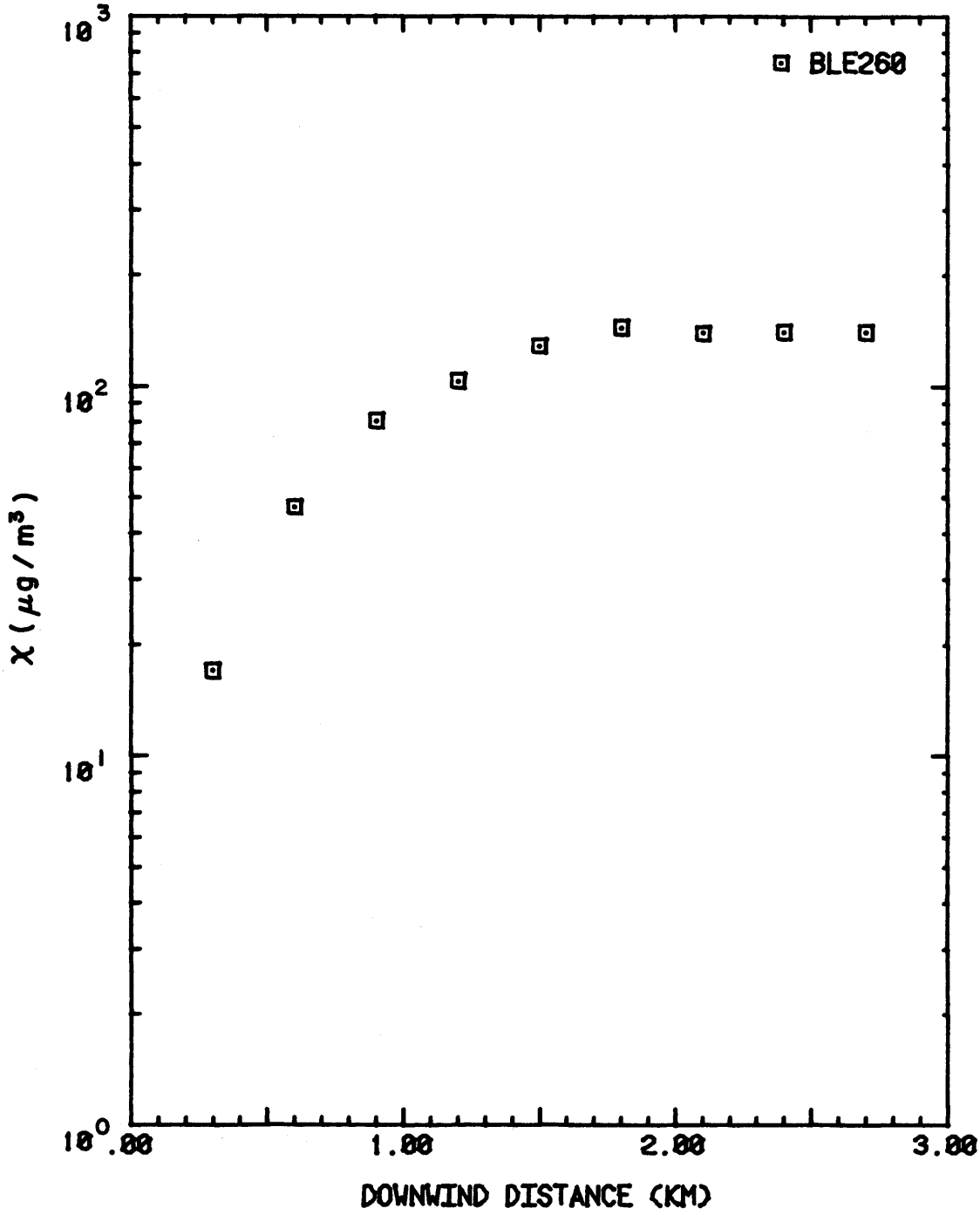

Figure C.5. Ground-level concentration for the existing Stack 3, full load, 270°, 30.3 mph at 60 m.

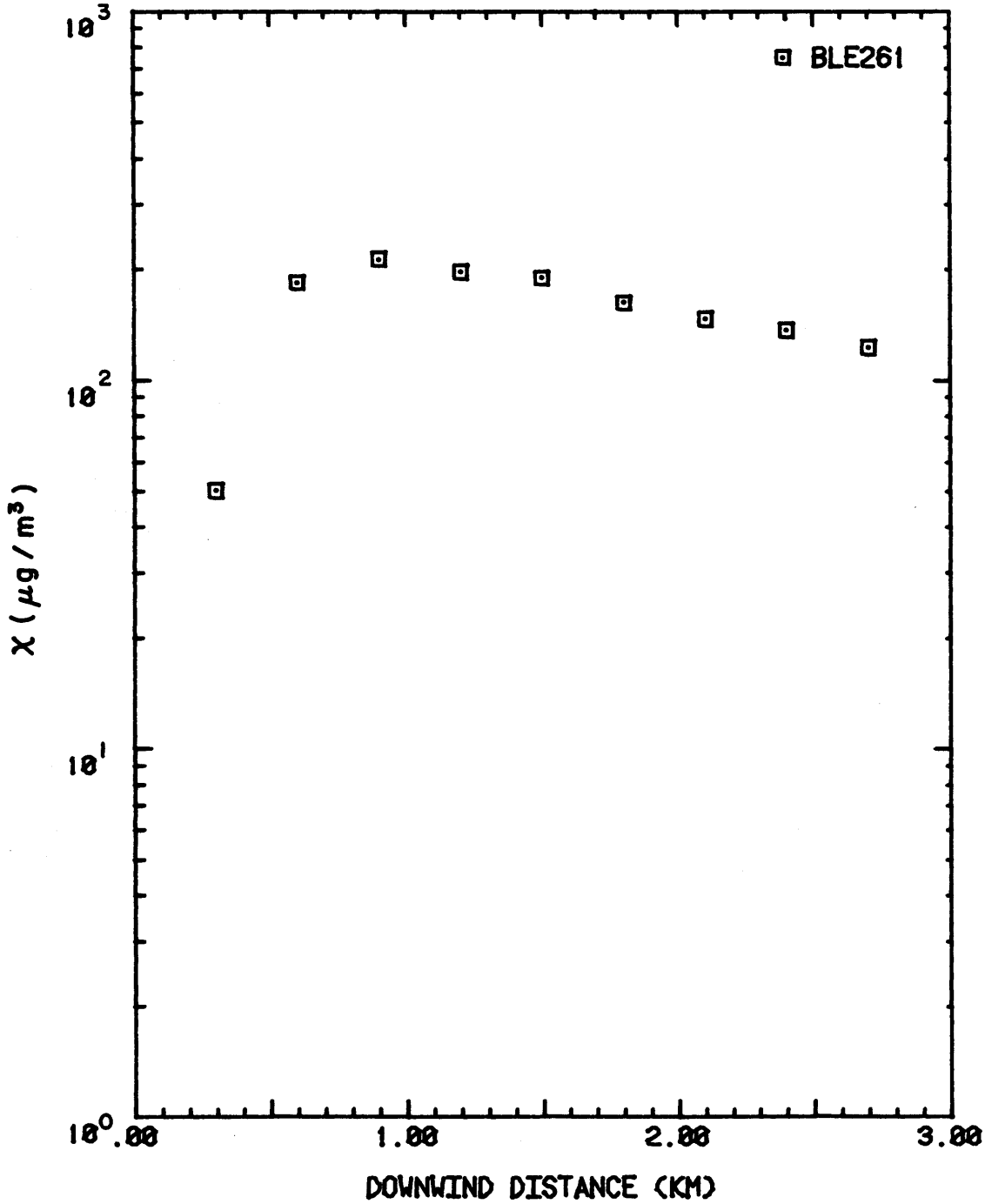

Figure C.6. Ground-level concentration for the existing Stack 3, min load, 270°, 30.3 mph at 60 m.

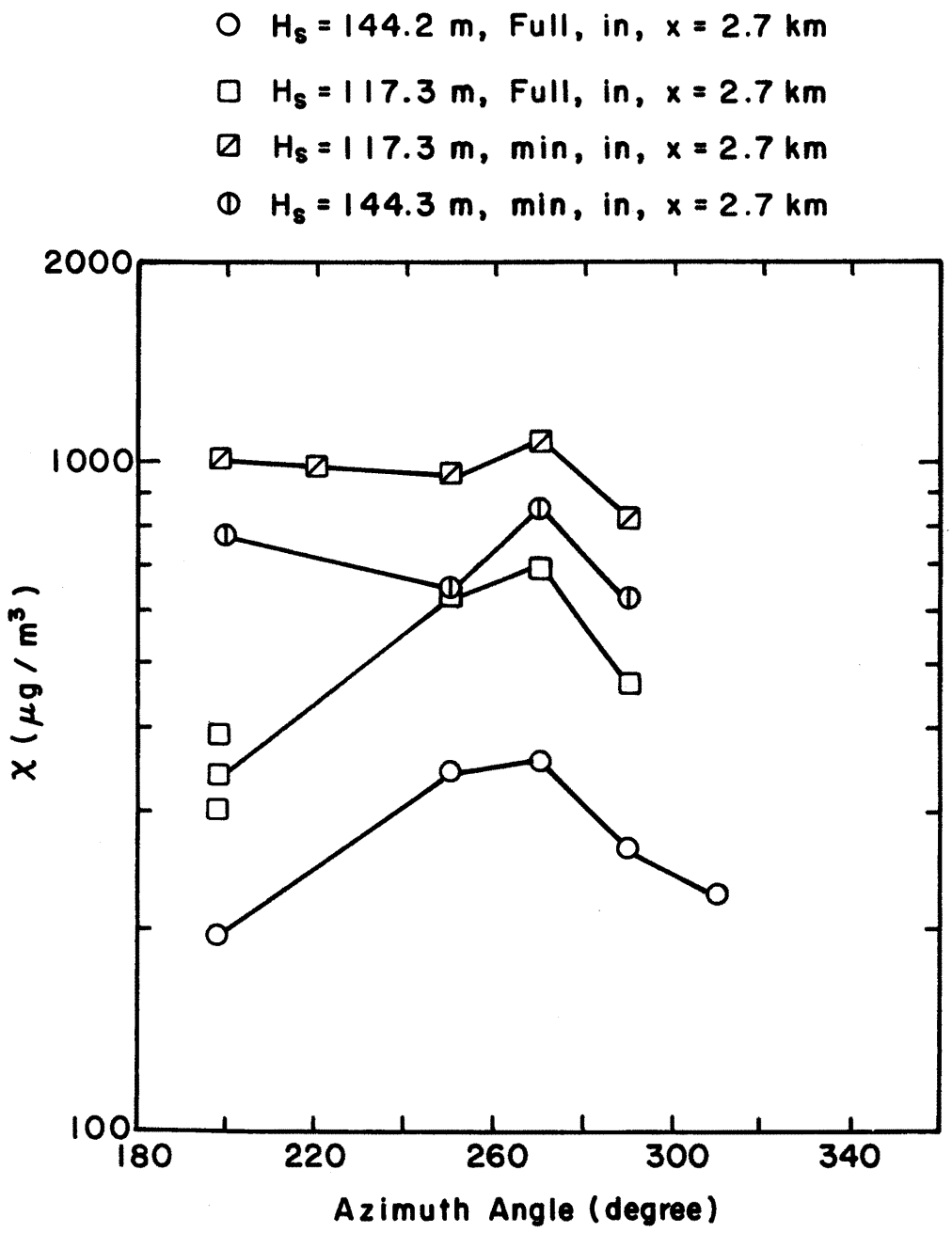

Figure C.7. Maximum ground-level concentration resulting from model orientation.

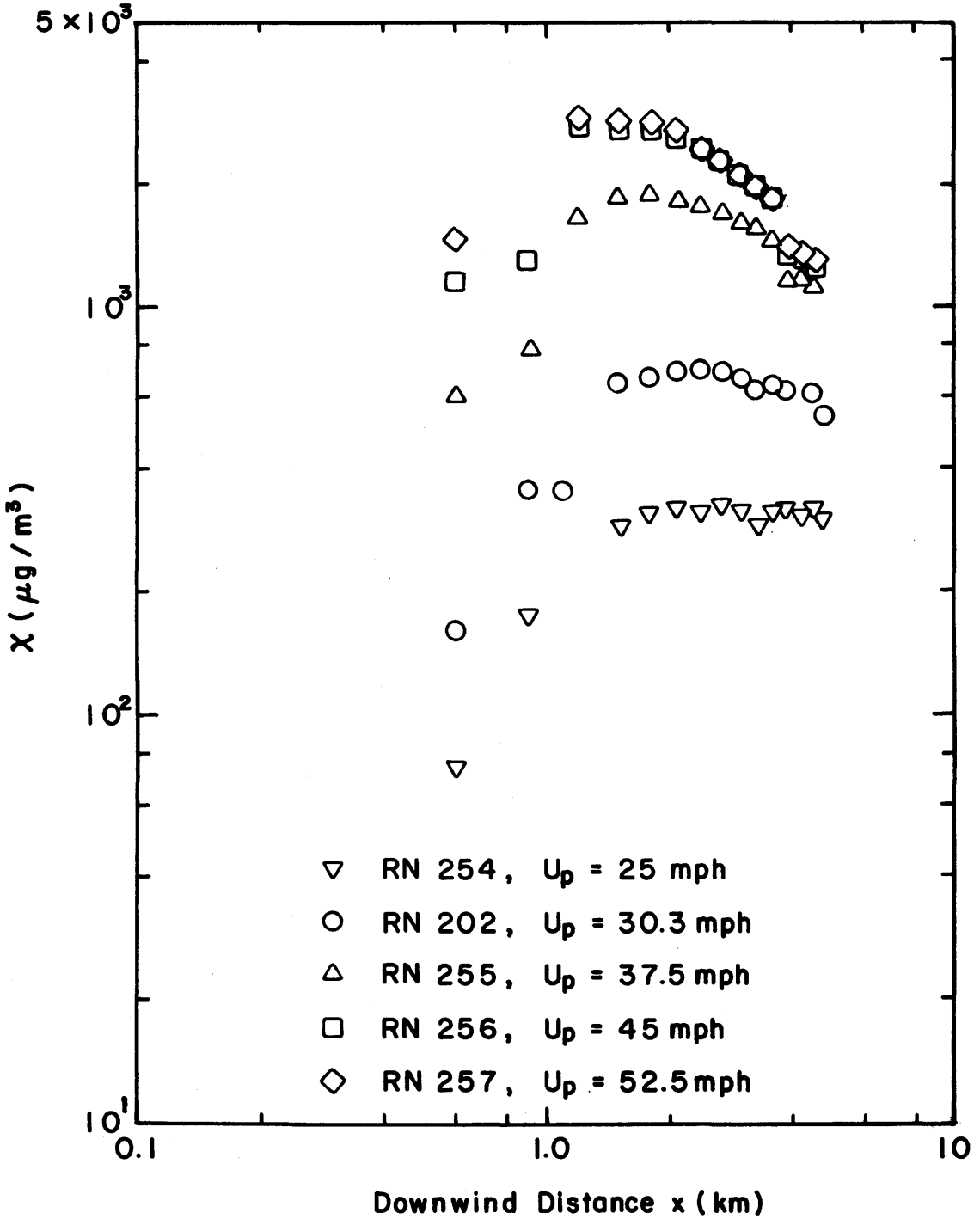

Figure C.8. Ground-level concentration for the 117.3 m stack, full load, 270°.

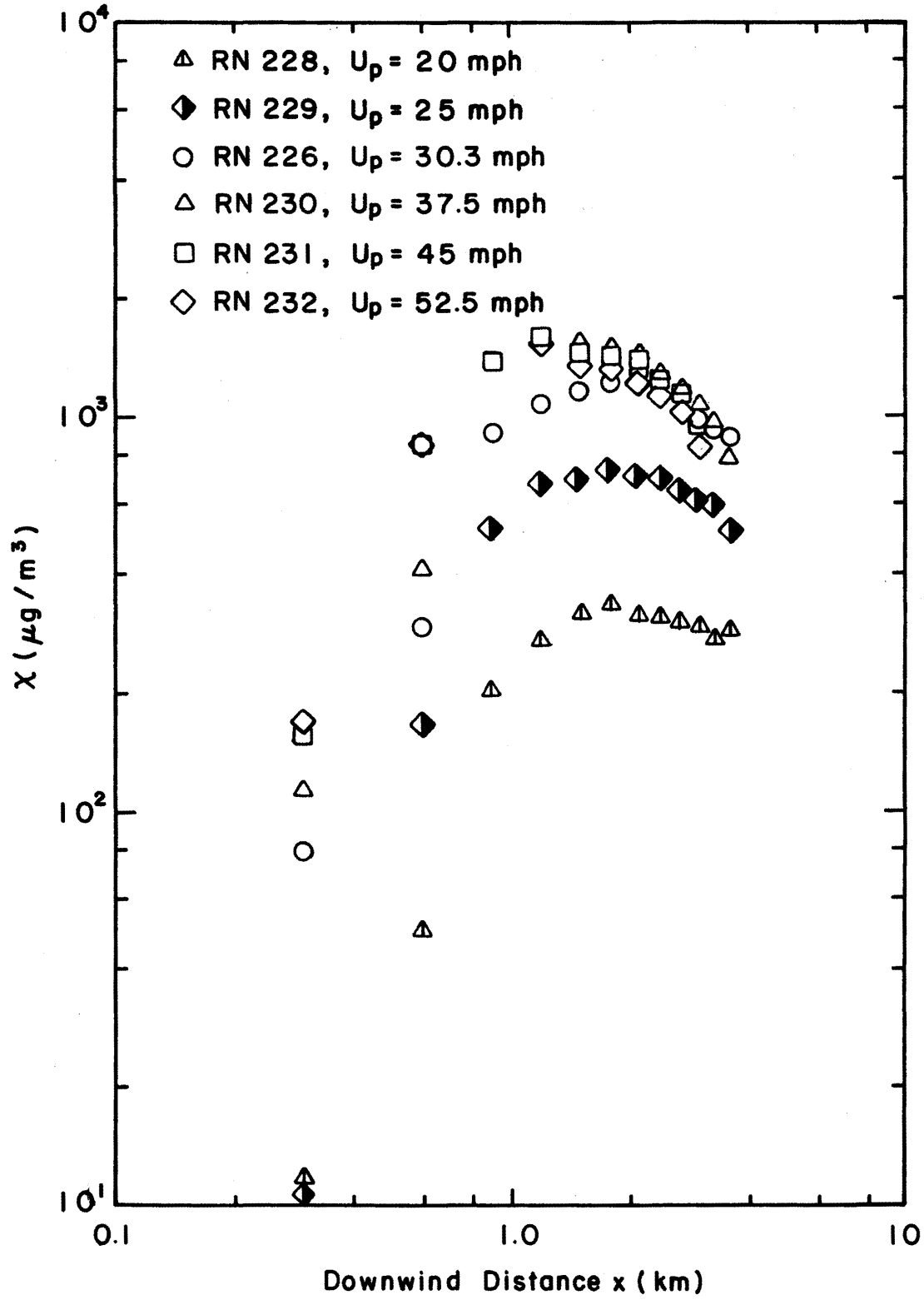

Figure C.9. Ground-level concentration for the 117.3 m stack, min load, 270°.

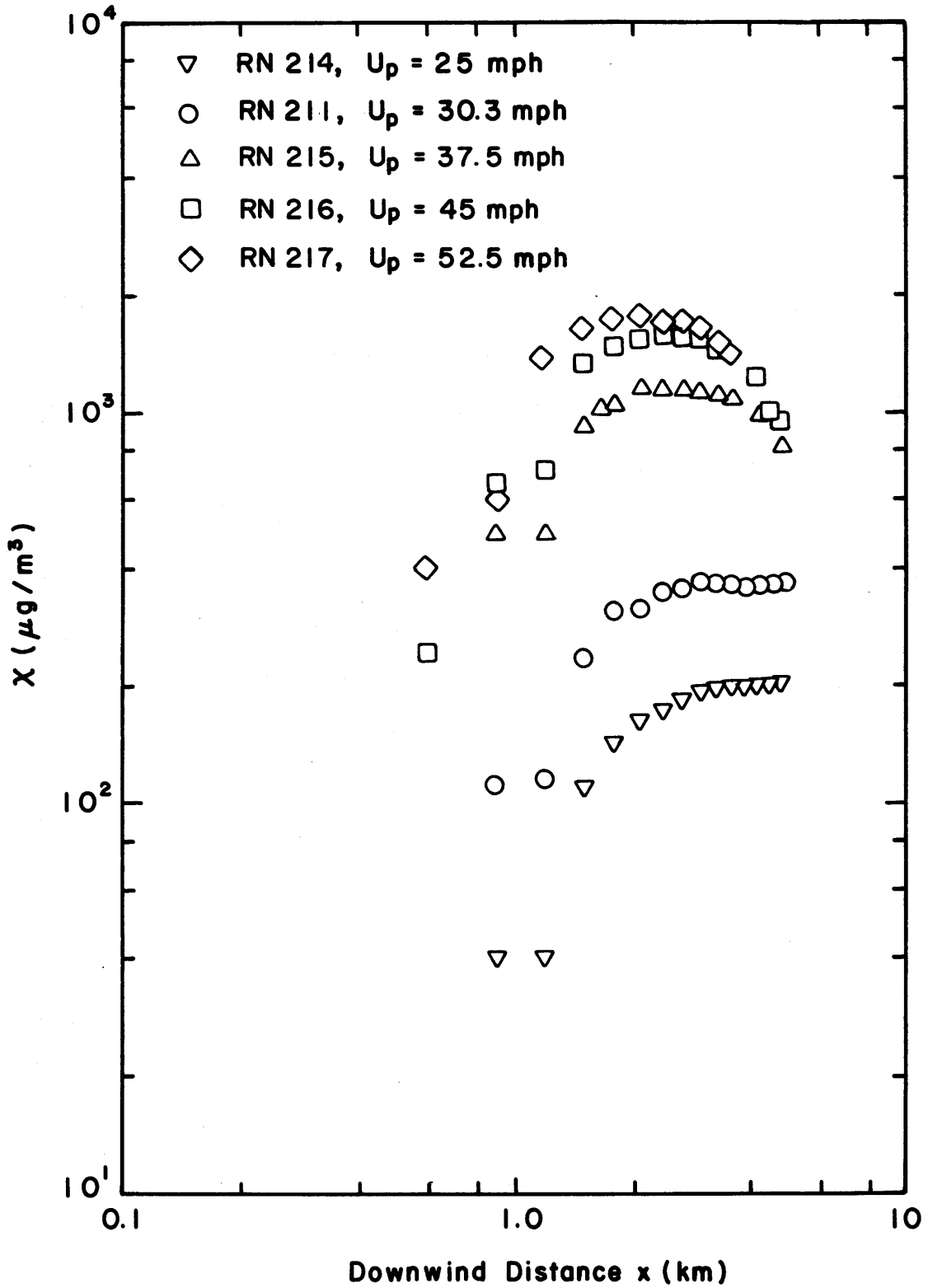

Figure C.10. Ground-level concentration for the 144.2 m stack, full load, 270°.

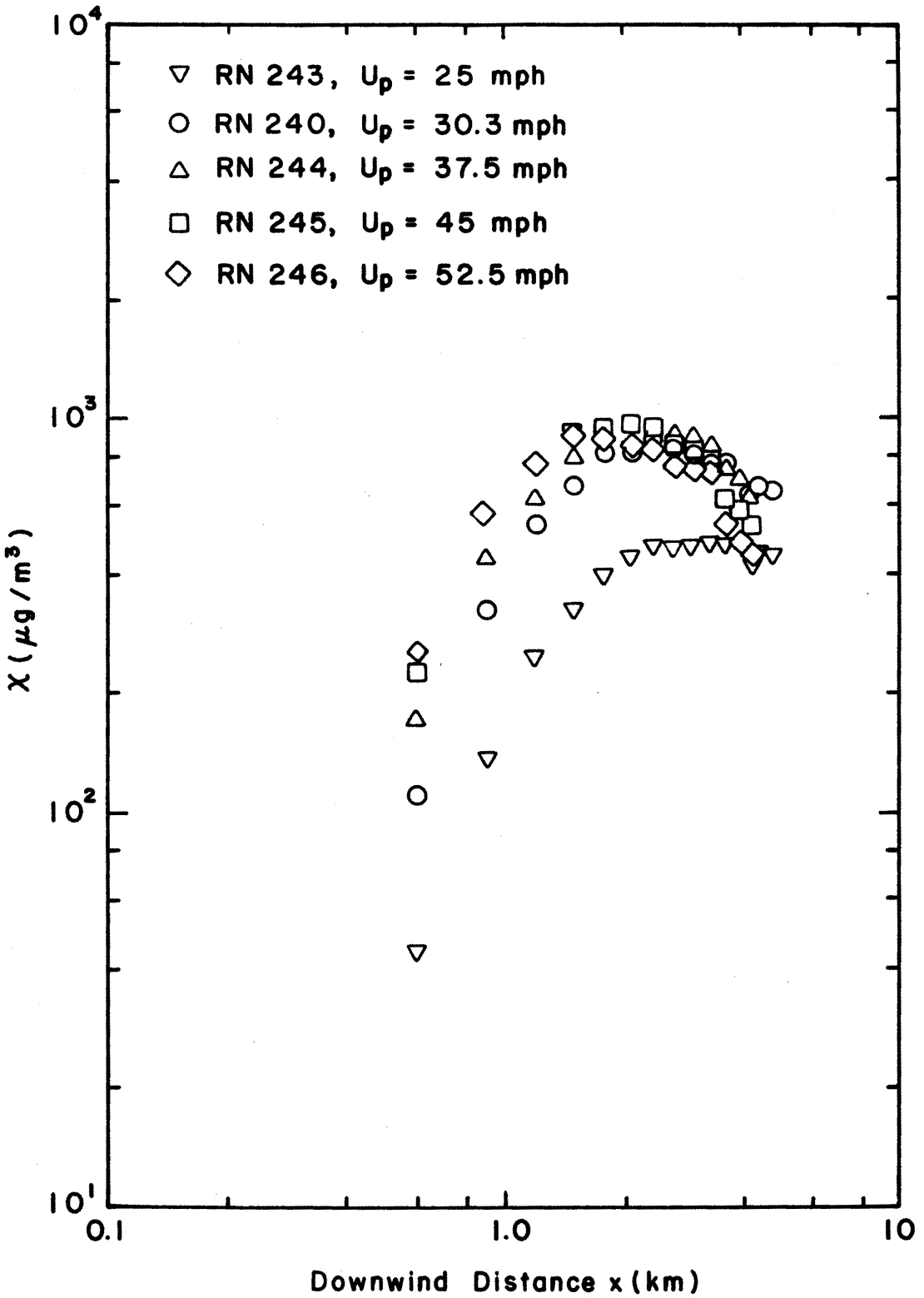

Figure C.11. Ground-level concentration for the 144.2 m stack, min load, 270°.

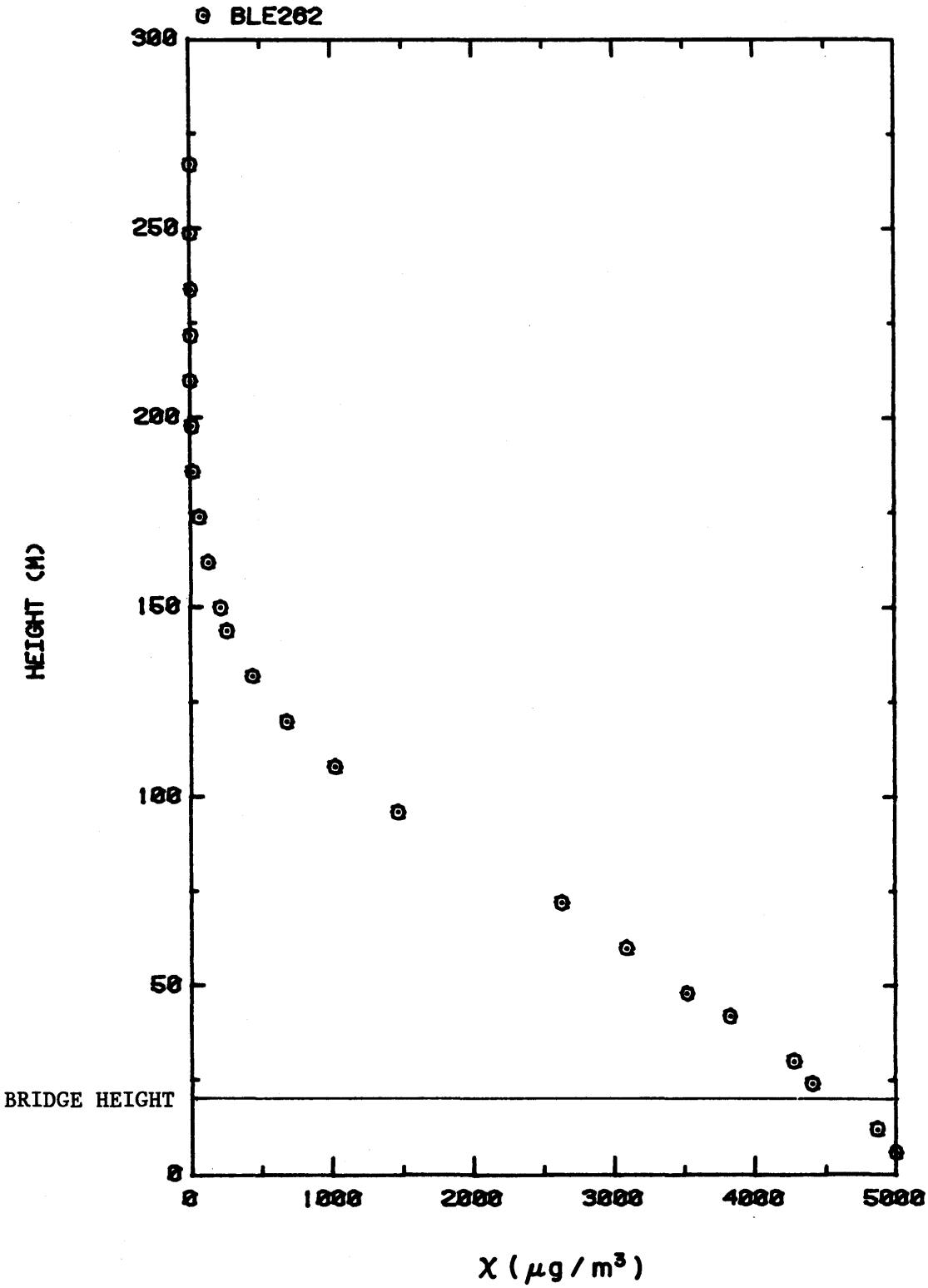

Figure C.12. Vertical concentration profile at Parkway Bridge for the existing stacks, min load, 266°, 0.96 km.

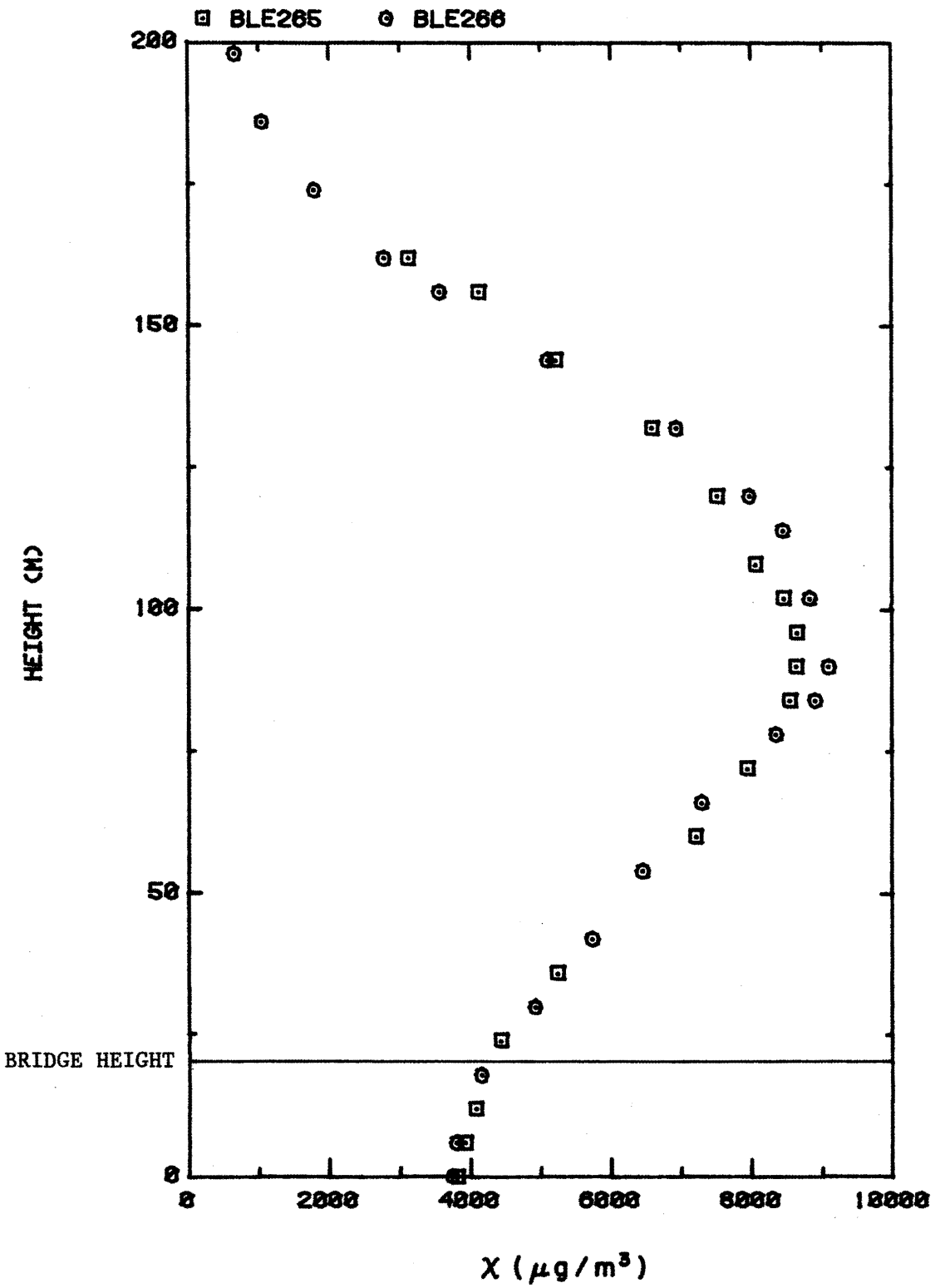

Figure C.13. Vertical concentration profile at Parkway Bridge for the existing stacks, full load, 266°, 0.96 km.

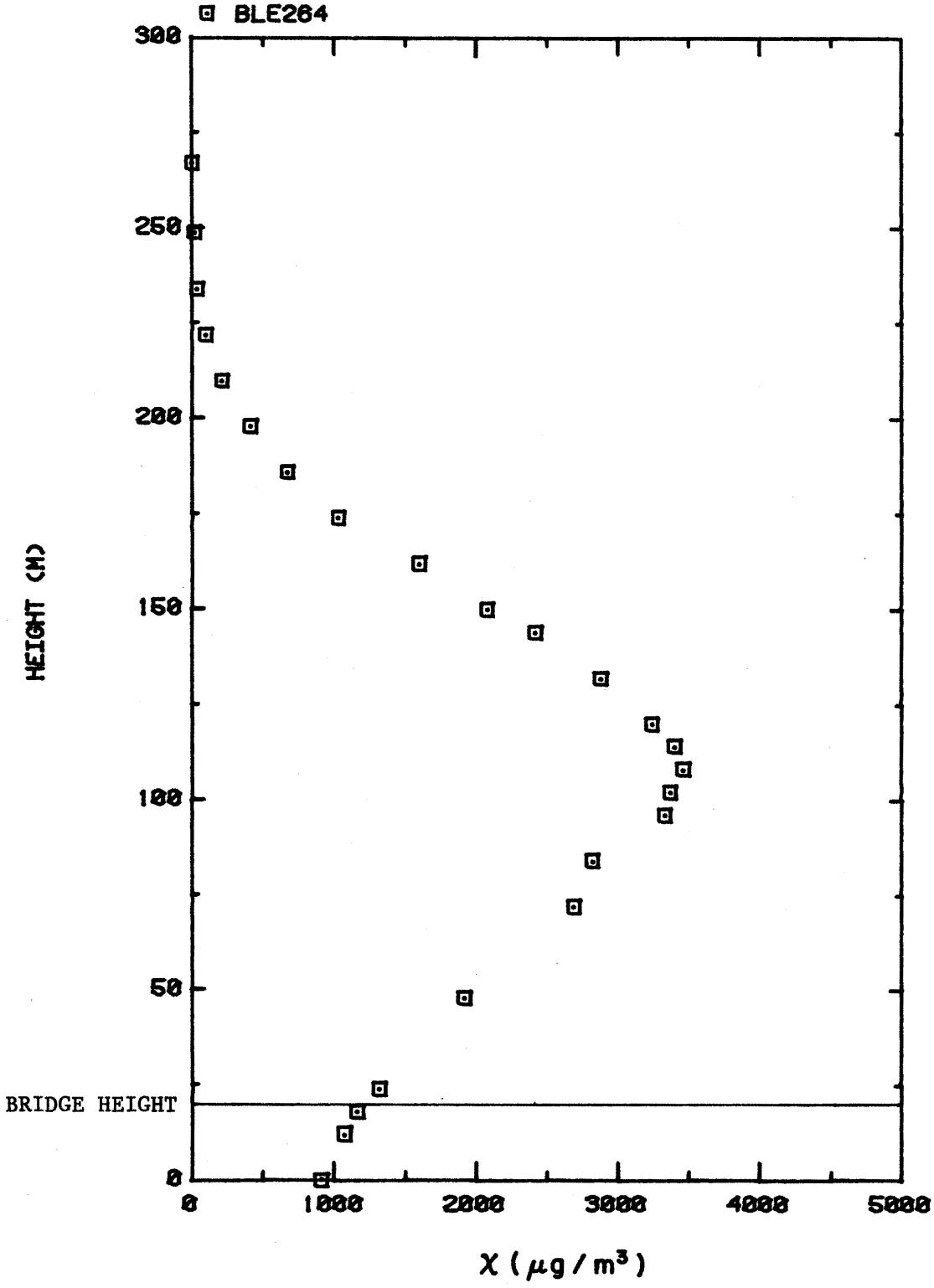

Figure C.14. Vertical concentration profile at Parkway Bridge for the 117.3 m stack, min load, 266°, 0.96 km.

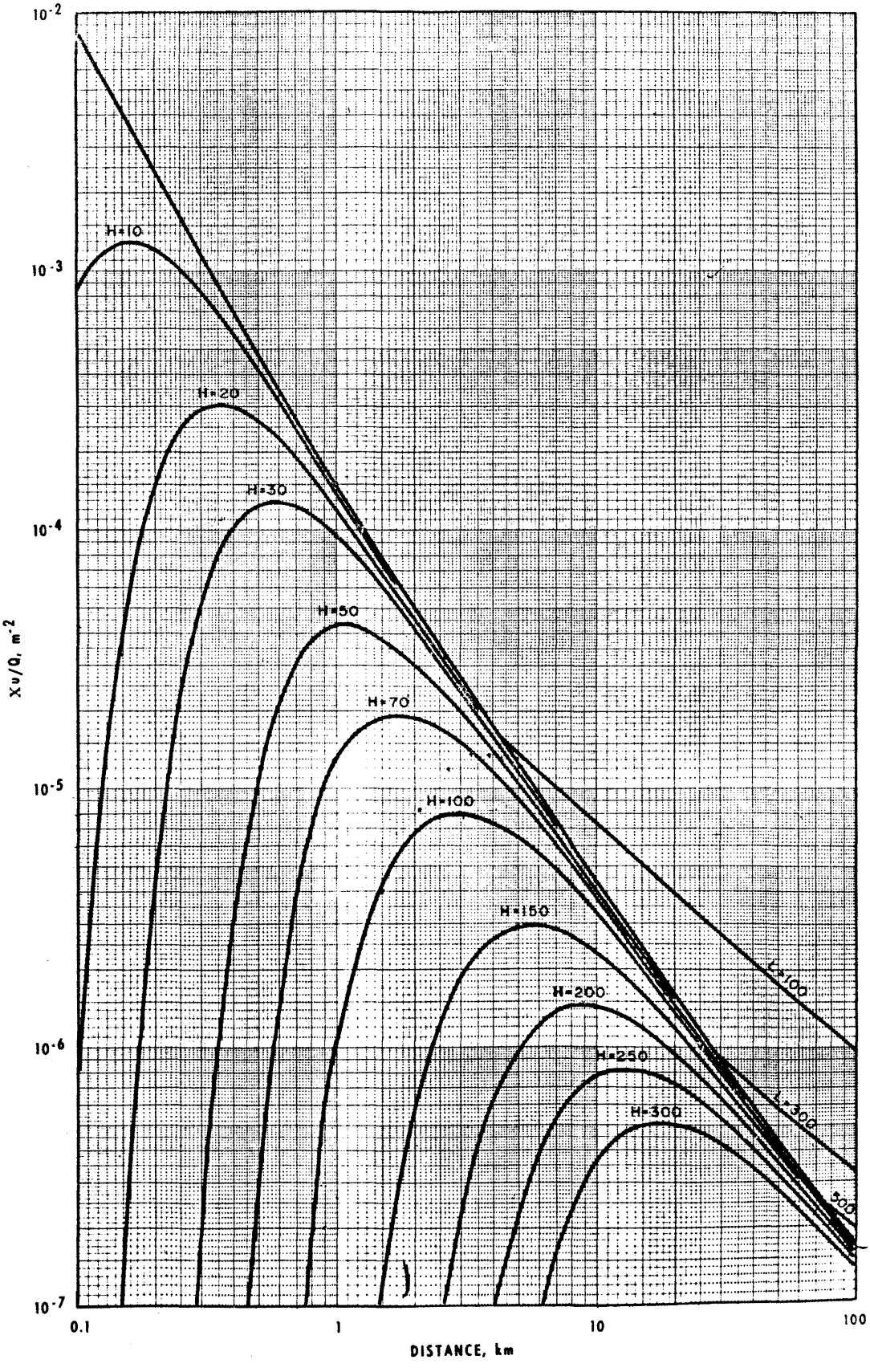

Figure C.15. Concentration coefficient with distance for various heights of emission (H) and limits to vertical dispersion (L), D stability.

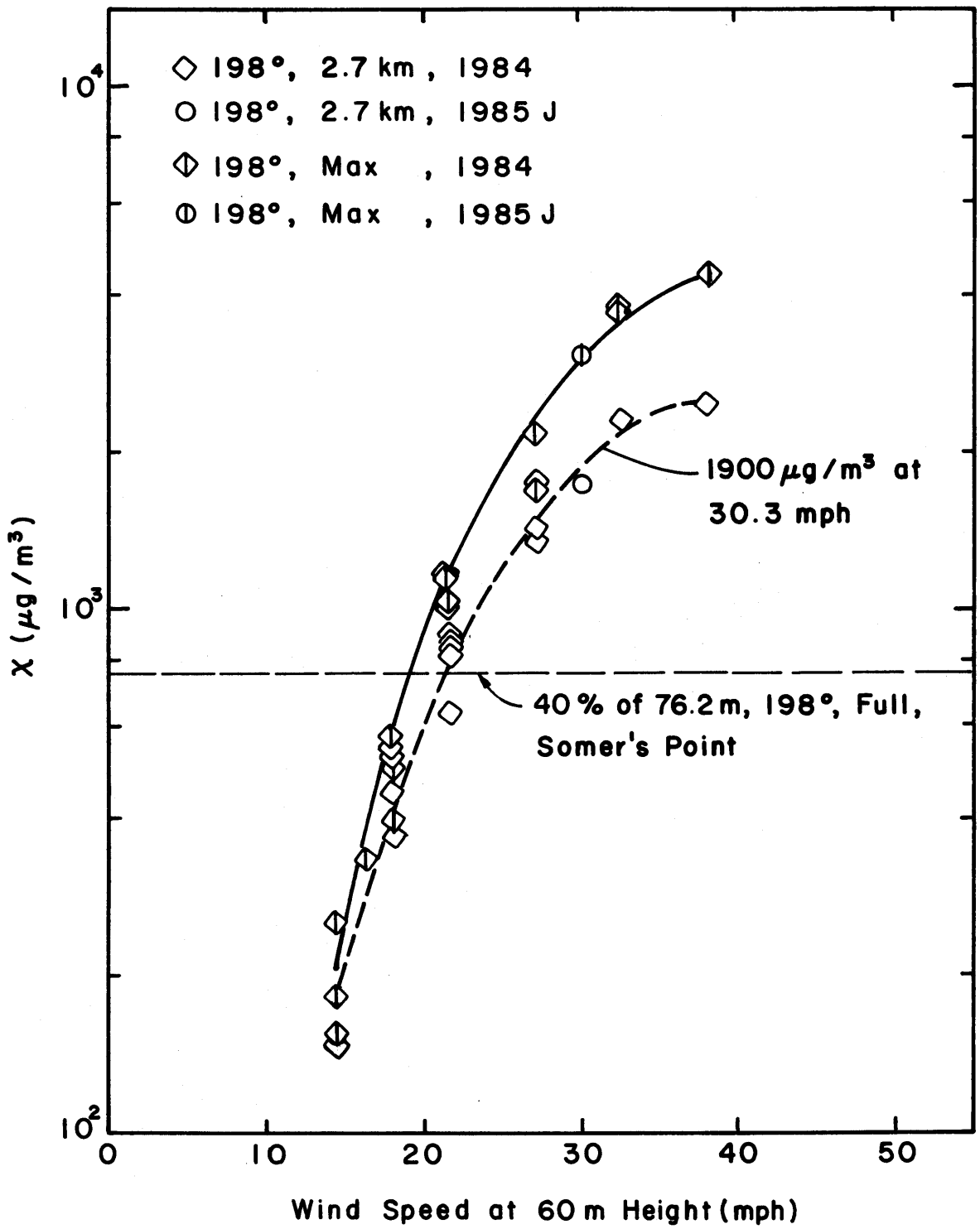

Figure C.16. Ground-level concentrations for the existing stacks versus wind speed, full load, 198°.

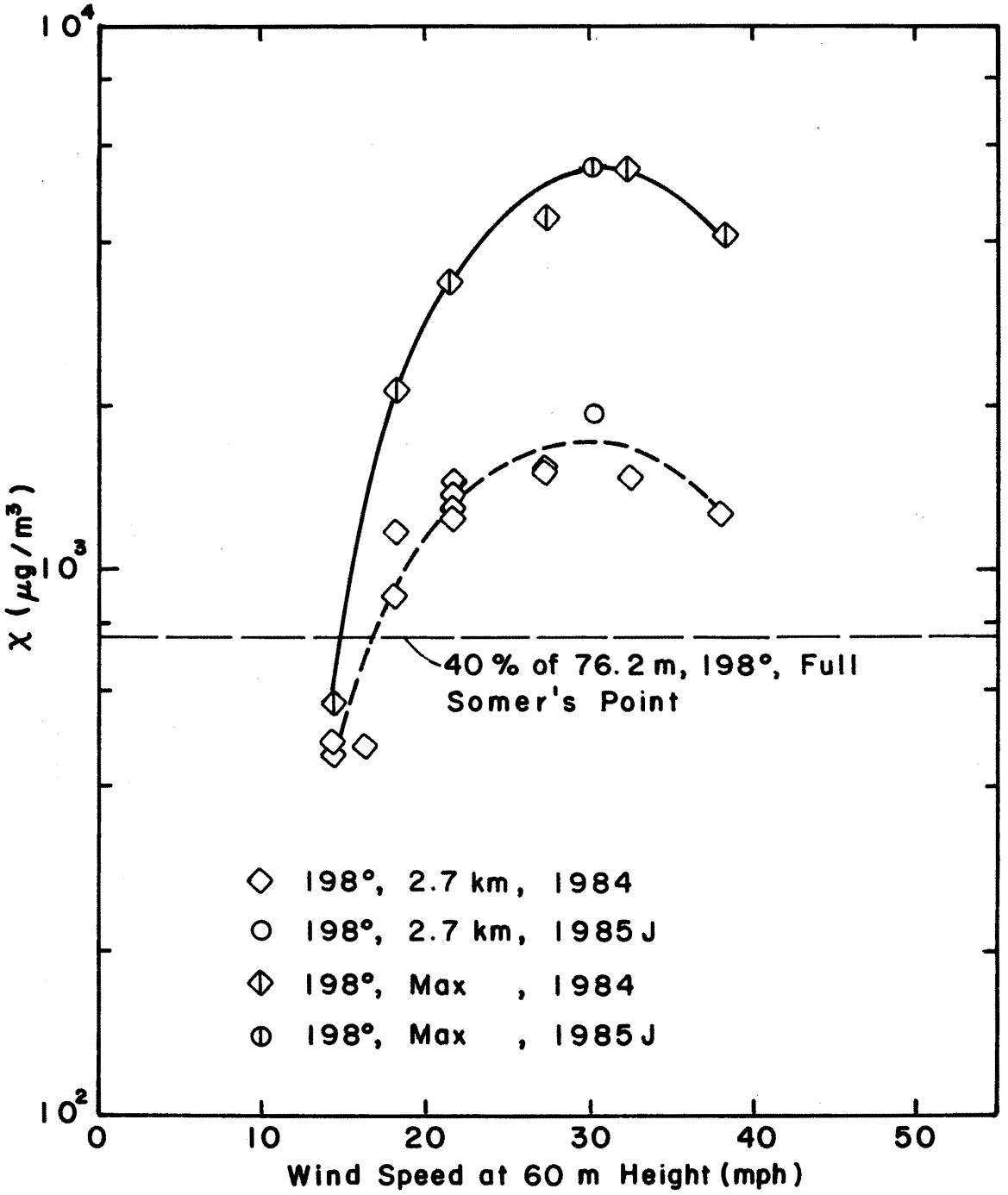

Figure C.17. Ground-level concentrations for the existing stacks versus wind speed, min load, 198°.

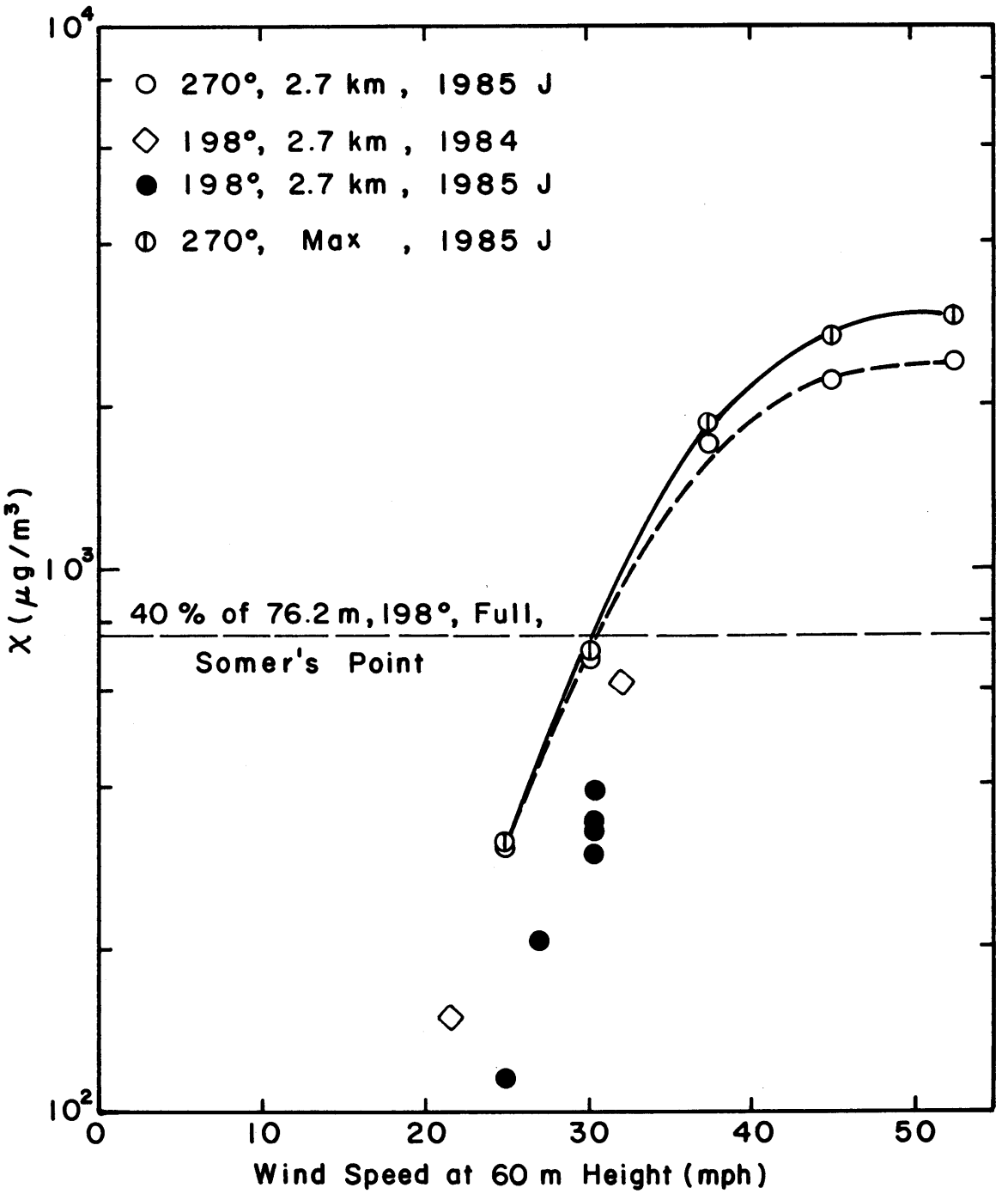

Figure C.18. Variation of ground-level concentration with wind speed for the 117.3 m stack, full load.

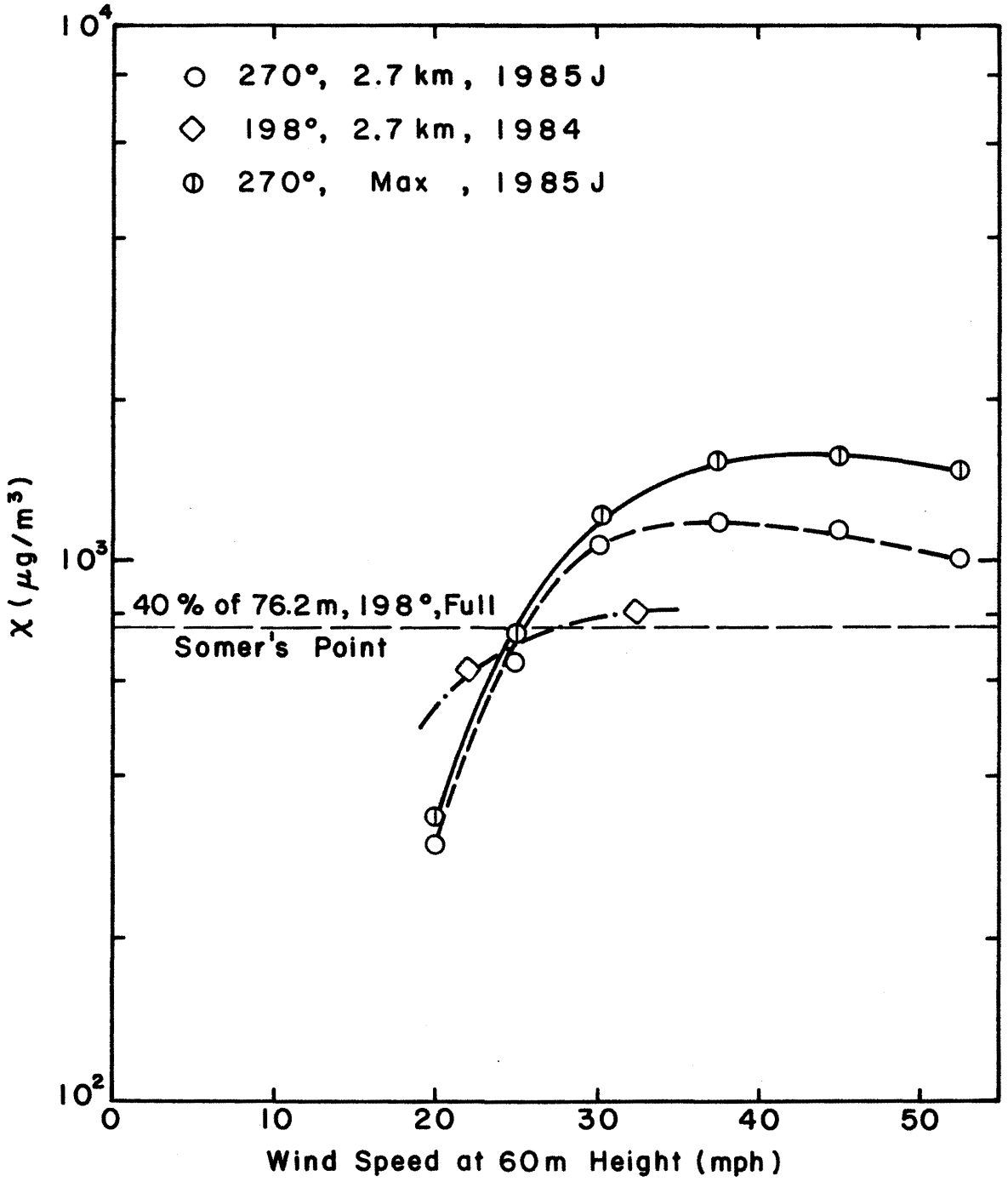

Figure C.19. Variation of ground-level concentration with wind speed for the 117.3 m stack, min load.

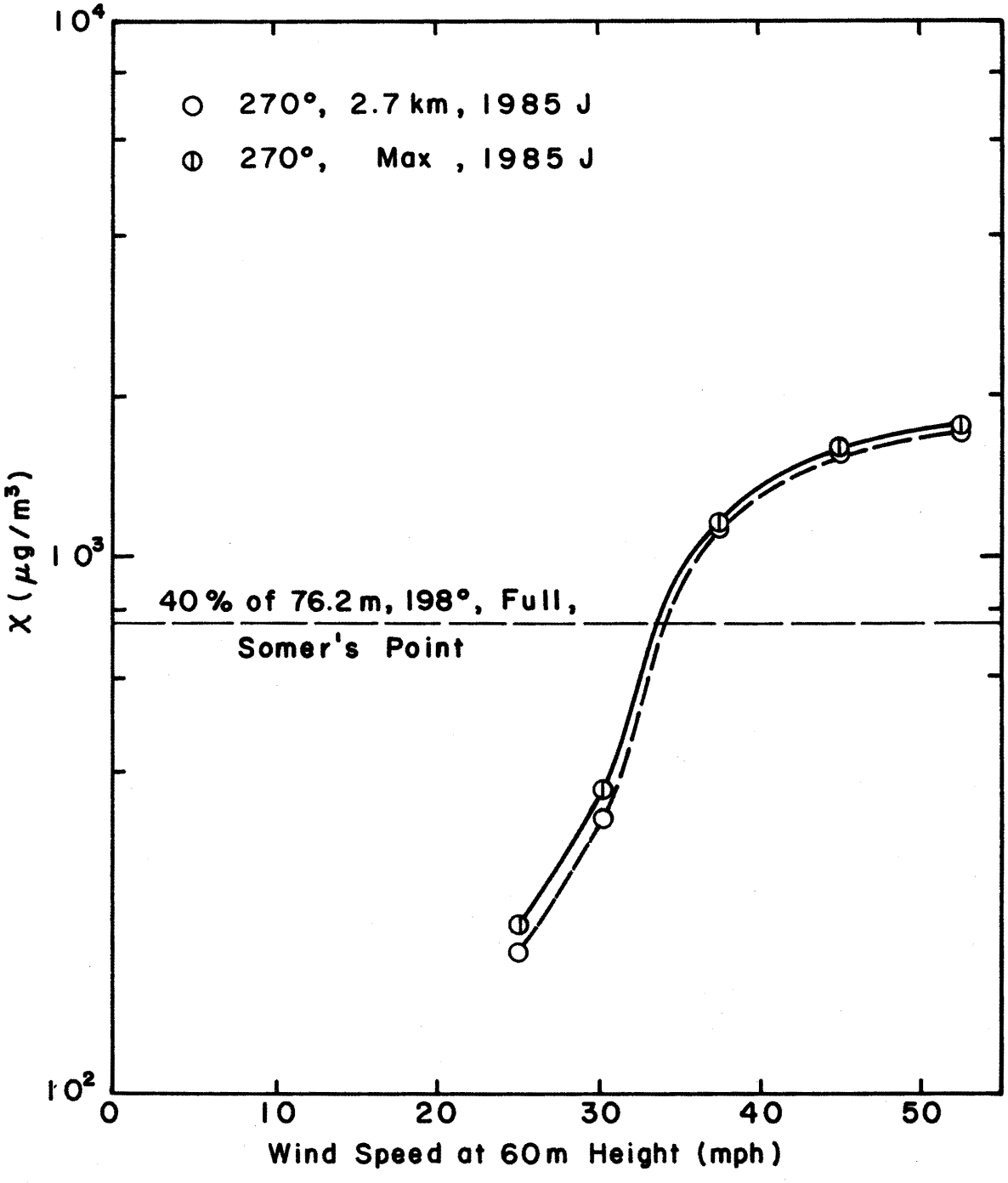

Figure C.20. Variation of ground-level concentration with wind speed for the 144.2 m stack, full load.

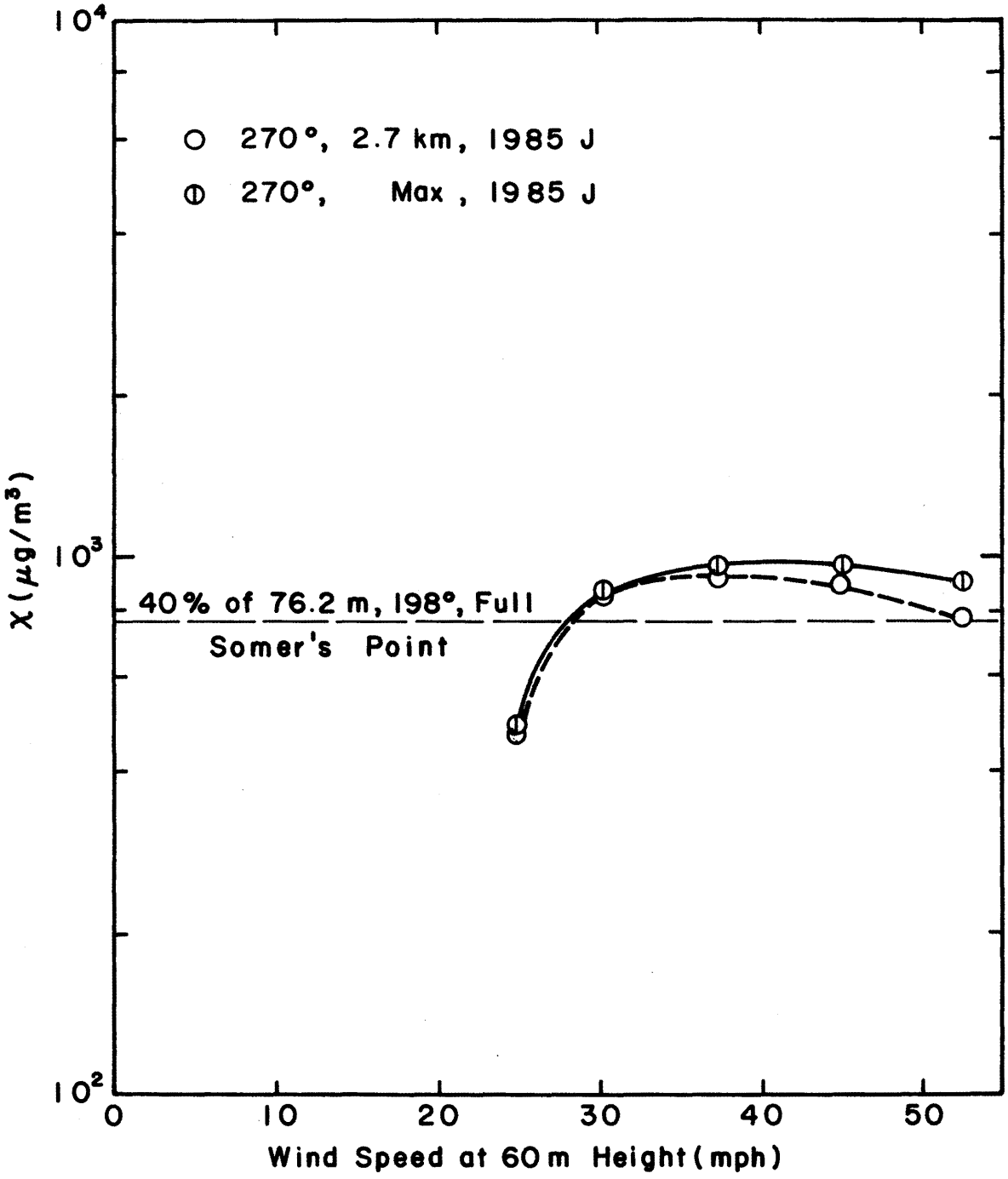

Figure C.21. Variation of ground-level concentration with wind speed for the 144.2 m stack, min load.

APPENDIX D

Concentration Data (1985J)

RUN # 201

385FT, TEST NO. FA385,
100%,IN,PLE201::17,250

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S
EXIT VEL.	1.31 M/S	17.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.45E+03		.52E+02		.29E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	683	.320E-04	771	.114E-03	220	.669E-05	.153E-03
11	.9	0.0	0.0	778	.450E-04	1019	.153E-03	287	.903E-05	.208E-03
16	1.2	15.0	0.0	1322	.120E-03	2294	.356E-03	708	.238E-04	.499E-03
17	1.2	0.0	0.0	1274	.113E-03	2224	.345E-03	666	.223E-04	.480E-03
18	1.2	-15.0	0.0	1269	.112E-03	2200	.341E-03	673	.225E-04	.476E-03
23	1.5	30.0	0.0	1326	.120E-03	2195	.340E-03	715	.240E-04	.484E-03
24	1.5	0.0	0.0	1446	.137E-03	2508	.390E-03	824	.278E-04	.554E-03
25	1.5	-30.0	0.0	1330	.121E-03	2246	.348E-03	726	.244E-04	.493E-03
29	1.8	60.0	0.0	1305	.117E-03	2045	.316E-03	715	.240E-04	.457E-03
30	1.8	30.0	0.0	1488	.142E-03	2443	.379E-03	861	.291E-04	.551E-03
31	1.8	0.0	0.0	1511	.145E-03	2510	.390E-03	885	.300E-04	.565E-03
32	1.8	-30.0	0.0	1421	.133E-03	2286	.354E-03	825	.279E-04	.515E-03
33	1.8	-60.0	0.0	1156	.968E-04	1734	.267E-03	596	.199E-04	.384E-03
37	2.1	60.0	0.0	1360	.125E-03	2080	.322E-03	768	.259E-04	.472E-03
38	2.1	30.0	0.0	1550	.151E-03	2478	.385E-03	918	.311E-04	.567E-03
39	2.1	0.0	0.0	1588	.156E-03	2600	.404E-03	965	.328E-04	.593E-03
40	2.1	-30.0	0.0	1496	.143E-03	2358	.366E-03	894	.303E-04	.540E-03
41	2.1	-60.0	0.0	1286	.115E-03	1913	.295E-03	714	.240E-04	.434E-03
45	2.4	60.0	0.0	1485	.142E-03	2195	.340E-03	880	.298E-04	.512E-03
46	2.4	30.0	0.0	1655	.165E-03	2585	.402E-03	1030	.350E-04	.602E-03
49	2.4	-30.0	0.0	1526	.147E-03	2331	.362E-03	915	.310E-04	.540E-03
50	2.4	-60.0	0.0	1295	.116E-03	1812	.279E-03	724	.243E-04	.419E-03
55	2.7	90.0	0.0	1272	.113E-03	1686	.259E-03	721	.242E-04	.396E-03
56	2.7	60.0	0.0	1482	.141E-03	2147	.332E-03	901	.305E-04	.504E-03
57	2.7	30.0	0.0	1662	.166E-03	2538	.394E-03	1058	.360E-04	.597E-03
58	2.7	0.0	0.0	1730	.175E-03	2704	.421E-03	1098	.374E-04	.634E-03
59	2.7	-30.0	0.0	1594	.157E-03	2394	.372E-03	994	.338E-04	.562E-03
64	3.0	-90.0	0.0	1109	.904E-04	1321	.201E-03	601	.200E-04	.312E-03
65	3.0	90.0	0.0	1336	.121E-03	1772	.273E-03	794	.268E-04	.421E-03
67	3.0	45.0	0.0	1595	.157E-03	2316	.359E-03	1007	.342E-04	.550E-03
68	3.0	0.0	0.0	1760	.180E-03	2660	.414E-03	1115	.380E-04	.631E-03
69	3.0	-45.0	0.0	1501	.144E-03	2122	.328E-03	928	.315E-04	.504E-03
70	3.0	-90.0	0.0	1179	.100E-03	1404	.215E-03	640	.214E-04	.336E-03
75	3.3	90.0	0.0	1430	.134E-03	1884	.291E-03	884	.299E-04	.455E-03
76	3.3	45.0	0.0	1668	.167E-03	2363	.367E-03	1067	.363E-04	.570E-03
77	3.3	0.0	0.0	1780	.182E-03	2565	.399E-03	1162	.397E-04	.621E-03
78	3.3	-45.0	0.0	1556	.152E-03	2142	.332E-03	986	.335E-04	.517E-03
83	3.3	-90.0	0.0	1188	.101E-03	1397	.213E-03	655	.219E-04	.337E-03
85	3.6	45.0	0.0	1717	.174E-03	2350	.365E-03	1101	.375E-04	.576E-03
86	3.6	0.0	0.0	1766	.180E-03	2473	.384E-03	1172	.400E-04	.604E-03
87	3.6	-45.0	0.0	1601	.158E-03	2110	.327E-03	1025	.349E-04	.519E-03
95	3.9	0.0	0.0	1739	.177E-03	2327	.361E-03	1145	.391E-04	.577E-03
104	4.2	0.0	0.0	1791	.184E-03	2372	.368E-03	1203	.411E-04	.593E-03
112	4.5	0.0	0.0	1822	.188E-03	2366	.367E-03	1214	.415E-04	.597E-03

RUN # 202

385ET, TEST NO: FA385,
100%,IN,PLE202::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S
EXIT VEL.	1.81 M/S	19.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.47E+03		.32E+02		.23E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	826	.476E-04	643	.936E-04	571	.185E-04	.160E-03
11	.9	0.0	0.0	1258	.105E-03	1436	.215E-03	1163	.386E-04	.358E-03
17	1.2	0.0	0.0	1236	.102E-03	1385	.207E-03	1080	.357E-04	.345E-03
24	1.5	0.0	0.0	1932	.194E-03	2516	.381E-03	1926	.644E-04	.629E-03
30	1.8	30.0	0.0	1833	.181E-03	2371	.358E-03	1750	.584E-04	.598E-03
31	1.8	0.0	0.0	2020	.206E-03	2621	.397E-03	1994	.667E-04	.669E-03
32	1.8	-30.0	0.0	2046	.209E-03	2538	.384E-03	2017	.674E-04	.660E-03
38	2.1	30.0	0.0	1836	.181E-03	2285	.345E-03	1727	.576E-04	.584E-03
39	2.1	0.0	0.0	2082	.214E-03	2648	.401E-03	2024	.677E-04	.682E-03
40	2.1	-30.0	0.0	2122	.219E-03	2625	.397E-03	2062	.690E-04	.685E-03
46	2.4	60.0	0.0	1613	.152E-03	1897	.286E-03	1411	.469E-04	.484E-03
47	2.4	30.0	0.0	1927	.193E-03	2356	.356E-03	1778	.594E-04	.609E-03
48	2.4	0.0	0.0	2131	.220E-03	2664	.403E-03	2063	.690E-04	.693E-03
49	2.4	-30.0	0.0	2060	.211E-03	2512	.380E-03	1951	.652E-04	.656E-03
50	2.4	-60.0	0.0	1850	.183E-03	2104	.318E-03	1687	.563E-04	.557E-03
55	2.7	90.0	0.0	1380	.121E-03	1504	.226E-03	1089	.361E-04	.383E-03
56	2.7	60.0	0.0	1658	.158E-03	1928	.291E-03	1428	.475E-04	.496E-03
57	2.7	30.0	0.0	1943	.195E-03	2324	.351E-03	1749	.584E-04	.605E-03
58	2.7	0.0	0.0	2149	.223E-03	2640	.400E-03	2033	.680E-04	.690E-03
59	2.7	-30.0	0.0	2179	.227E-03	2611	.395E-03	2051	.686E-04	.690E-03
60	2.7	-60.0	0.0	1947	.196E-03	2212	.334E-03	1785	.596E-04	.590E-03
61	2.7	-90.0	0.0	1560	.145E-03	1589	.239E-03	1302	.433E-04	.427E-03
66	3.0	90.0	0.0	1414	.125E-03	1530	.230E-03	1113	.369E-04	.392E-03
67	3.0	45.0	0.0	1781	.174E-03	2041	.308E-03	1536	.512E-04	.533E-03
68	3.0	0.0	0.0	2085	.214E-03	2481	.375E-03	1925	.643E-04	.654E-03
69	3.0	-45.0	0.0	2083	.214E-03	2374	.359E-03	1894	.633E-04	.636E-03
70	3.0	-90.0	0.0	1653	.157E-03	1697	.255E-03	1396	.464E-04	.459E-03
75	3.3	90.0	0.0	1472	.133E-03	1613	.242E-03	1194	.396E-04	.415E-03
76	3.3	45.0	0.0	1836	.181E-03	2086	.315E-03	1601	.534E-04	.549E-03
78	3.3	-45.0	0.0	2044	.209E-03	2273	.343E-03	1865	.622E-04	.614E-03
79	3.3	-90.0	0.0	1639	.155E-03	1643	.247E-03	1352	.449E-04	.447E-03
84	3.6	90.0	0.0	1527	.140E-03	1643	.247E-03	1107	.367E-04	.424E-03
85	3.6	45.0	0.0	1876	.186E-03	2113	.319E-03	1630	.543E-04	.560E-03
86	3.6	0.0	0.0	2134	.221E-03	2394	.362E-03	1934	.646E-04	.647E-03
87	3.6	-45.0	0.0	1984	.201E-03	2152	.325E-03	1753	.585E-04	.584E-03
88	3.6	-90.0	0.0	1584	.148E-03	1554	.233E-03	1292	.429E-04	.424E-03
94	3.9	45.0	0.0	1868	.185E-03	2072	.313E-03	1572	.524E-04	.550E-03
95	3.9	0.0	0.0	2081	.214E-03	2289	.346E-03	1820	.608E-04	.620E-03
96	3.9	-45.0	0.0	1954	.197E-03	2103	.317E-03	1704	.568E-04	.571E-03
103	4.2	45.0	0.0	1897	.189E-03	2097	.316E-03	1611	.537E-04	.559E-03
104	4.2	0.0	0.0	2071	.212E-03	2241	.339E-03	1806	.603E-04	.611E-03
105	4.2	-45.0	0.0	1917	.192E-03	2012	.303E-03	1646	.549E-04	.550E-03
112	4.5	45.0	0.0	1810	.178E-03	1950	.294E-03	1509	.503E-04	.522E-03
113	4.5	0.0	0.0	2105	.217E-03	2260	.341E-03	1823	.609E-04	.619E-03
121	4.8	45.0	0.0	1879	.187E-03	2017	.304E-03	1566	.522E-04	.543E-03

RUN # 203

385FT,TEST NO. FA385,
100%,IN,BLE203::17,290

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S
EXIT VEL.	1.81 M/S	19.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.57E+03		.82E+02		.64E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	748	.238E-04	238	.239E-04	274	.710E-05	.548E-04
11	.9	0.0	0.0	1056	.645E-04	469	.593E-04	604	.183E-04	.142E-03
17	1.2	0.0	0.0	1067	.660E-04	490	.625E-04	608	.184E-04	.147E-03
24	1.5	0.0	0.0	1590	.135E-03	925	.129E-03	1123	.358E-04	.300E-03
30	1.8	30.0	0.0	1598	.136E-03	969	.136E-03	1129	.360E-04	.308E-03
31	1.8	0.0	0.0	1789	.161E-03	1102	.156E-03	1297	.417E-04	.359E-03
32	1.8	-30.0	0.0	1784	.161E-03	1045	.148E-03	1259	.404E-04	.349E-03
38	2.1	30.0	0.0	1745	.156E-03	1087	.154E-03	1248	.400E-04	.350E-03
39	2.1	0.0	0.0	1983	.187E-03	1257	.180E-03	1476	.478E-04	.415E-03
40	2.1	-30.0	0.0	1932	.180E-03	1191	.170E-03	1397	.451E-04	.395E-03
46	2.4	60.0	0.0	1560	.131E-03	973	.137E-03	1069	.340E-04	.302E-03
47	2.4	30.0	0.0	1883	.174E-03	1212	.173E-03	1368	.441E-04	.391E-03
48	2.4	0.0	0.0	2055	.197E-03	1334	.192E-03	1525	.494E-04	.438E-03
49	2.4	-30.0	0.0	1939	.181E-03	1225	.175E-03	1375	.443E-04	.401E-03
50	2.4	-60.0	0.0	1764	.158E-03	1044	.147E-03	1208	.387E-04	.344E-03
55	2.7	90.0	0.0	1290	.955E-04	753	.103E-03	796	.248E-04	.223E-03
56	2.7	60.0	0.0	1641	.142E-03	1068	.151E-03	1145	.366E-04	.330E-03
57	2.7	30.0	0.0	1988	.188E-03	1318	.189E-03	1447	.468E-04	.424E-03
58	2.7	0.0	0.0	2130	.207E-03	1421	.205E-03	1580	.513E-04	.463E-03
59	2.7	-30.0	0.0	2036	.194E-03	1309	.188E-03	1473	.477E-04	.430E-03
60	2.7	-60.0	0.0	1833	.167E-03	1106	.157E-03	1240	.398E-04	.364E-03
66	3.0	90.0	0.0	1343	.102E-03	827	.114E-03	883	.277E-04	.244E-03
67	3.0	45.0	0.0	1823	.166E-03	1222	.175E-03	1316	.423E-04	.383E-03
68	3.0	0.0	0.0	2136	.207E-03	1452	.210E-03	1595	.518E-04	.469E-03
69	3.0	-45.0	0.0	1998	.189E-03	1280	.184E-03	1407	.454E-04	.418E-03
70	3.0	-90.0	0.0	1673	.146E-03	1007	.142E-03	1075	.342E-04	.322E-03
75	3.3	90.0	0.0	1398	.110E-03	904	.126E-03	907	.285E-04	.264E-03
76	3.3	45.0	0.0	1863	.171E-03	1261	.181E-03	1327	.427E-04	.395E-03
78	3.3	-45.0	0.0	2007	.190E-03	1310	.188E-03	1424	.460E-04	.424E-03
79	3.3	-90.0	0.0	1692	.149E-03	1044	.147E-03	1093	.348E-04	.331E-03
84	3.6	90.0	0.0	1519	.126E-03	996	.140E-03	1000	.317E-04	.297E-03
85	3.6	45.0	0.0	1905	.177E-03	1334	.192E-03	1377	.444E-04	.413E-03
86	3.6	0.0	0.0	2169	.212E-03	1513	.219E-03	1599	.519E-04	.483E-03
87	3.6	-45.0	0.0	2024	.193E-03	1339	.193E-03	1427	.461E-04	.431E-03
88	3.6	-90.0	0.0	1714	.152E-03	1063	.150E-03	1115	.355E-04	.337E-03
94	3.9	45.0	0.0	1889	.175E-03	1336	.192E-03	1364	.440E-04	.411E-03
95	3.9	-45.0	0.0	2054	.197E-03	1404	.203E-03	1479	.479E-04	.447E-03
103	4.2	45.0	0.0	1923	.179E-03	1379	.199E-03	1403	.453E-04	.423E-03
104	4.2	0.0	0.0	2135	.207E-03	1500	.217E-03	1563	.507E-04	.475E-03
105	4.2	-45.0	0.0	2047	.196E-03	1404	.203E-03	1467	.474E-04	.446E-03
112	4.5	45.0	0.0	1861	.171E-03	1317	.189E-03	1348	.434E-04	.404E-03
113	4.5	0.0	0.0	2146	.209E-03	1514	.219E-03	1572	.510E-04	.479E-03
121	4.8	45.0	0.0	1963	.184E-03	1422	.205E-03	1428	.461E-04	.436E-03

RUN # 204

395FT,TEST NO. FB385,
100%,IN,BLE204:117,250.

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S		
EXIT VEL.	1.81 M/S	19.98 M/S	1.84 M/S	20.39 M/S		
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.57E+03		.19E+03			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1420	.112E-03	1185	.152E-03			.265E-03
11	.9	0.0	0.0	2450	.248E-03	2342	.329E-03			.577E-03
16	1.2	15.0	0.0	2729	.285E-03	2652	.376E-03			.661E-03
17	1.2	0.0	0.0	3195	.346E-03	3171	.456E-03			.802E-03
18	1.2	-15.0	0.0	3182	.344E-03	3131	.450E-03			.794E-03
23	1.5	30.0	0.0	3684	.410E-03	3622	.535E-03			.946E-03
24	1.5	0.0	0.0	3736	.417E-03	3775	.548E-03			.965E-03
25	1.5	-30.0	0.0	3371	.369E-03	3225	.475E-03			.844E-03
29	1.8	60.0	0.0	3238	.352E-03	3193	.459E-03			.811E-03
30	1.8	30.0	0.0	3965	.447E-03	3901	.579E-03			.103E-02
31	1.8	0.0	0.0	4165	.474E-03	4152	.605E-03			.108E-02
32	1.8	-30.0	0.0	3720	.415E-03	3658	.530E-03			.945E-03
37	2.1	60.0	0.0	3105	.334E-03	3028	.434E-03			.768E-03
38	2.1	30.0	0.0	3890	.437E-03	3883	.564E-03			.100E-02
39	2.1	0.0	0.0	4273	.488E-03	4270	.623E-03			.111E-02
40	2.1	-30.0	0.0	3969	.448E-03	3917	.570E-03			.102E-02
41	2.1	-60.0	0.0	3193	.346E-03	3058	.438E-03			.784E-03
46	2.4	60.0	0.0	3469	.382E-03	3420	.494E-03			.876E-03
47	2.4	30.0	0.0	4019	.454E-03	3999	.582E-03			.104E-02
48	2.4	0.0	0.0	4256	.486E-03	4250	.620E-03			.111E-02
49	2.4	-30.0	0.0	3878	.436E-03	3819	.555E-03			.990E-03
50	2.4	-60.0	0.0	3276	.357E-03	3132	.450E-03			.806E-03
56	2.7	60.0	0.0	3427	.376E-03	3341	.482E-03			.858E-03
57	2.7	30.0	0.0	3984	.450E-03	3937	.573E-03			.102E-02
58	2.7	0.0	0.0	4193	.477E-03	4164	.607E-03			.108E-02
59	2.7	-30.0	0.0	3968	.448E-03	3878	.564E-03			.101E-02
60	2.7	-60.0	0.0	3398	.373E-03	3248	.467E-03			.840E-03
66	3.0	90.0	0.0	2941	.312E-03	2761	.393E-03			.706E-03
67	3.0	45.0	0.0	3766	.421E-03	3704	.537E-03			.959E-03
68	3.0	0.0	0.0	4226	.482E-03	4125	.601E-03			.108E-02
69	3.0	-45.0	0.0	3718	.415E-03	3579	.518E-03			.933E-03
75	3.3	90.0	0.0	3009	.321E-03	2845	.404E-03			.727E-03
76	3.3	45.0	0.0	3755	.420E-03	3667	.531E-03			.951E-03
77	3.3	0.0	0.0	4176	.475E-03	4077	.594E-03			.107E-02
78	3.3	-45.0	0.0	3607	.400E-03	3457	.499E-03			.899E-03
79	3.3	-90.0	0.0	2669	.277E-03	2423	.341E-03			.618E-03
84	3.6	90.0	0.0	3048	.327E-03	2880	.411E-03			.739E-03
85	3.6	45.0	0.0	3752	.419E-03	3646	.528E-03			.947E-03
86	3.6	0.0	0.0	4015	.454E-03	3877	.563E-03			.102E-02
87	3.6	-45.0	0.0	3524	.389E-03	3332	.480E-03			.869E-03
89	3.6	-90.0	0.0	2510	.256E-03	2259	.316E-03			.572E-03
94	3.9	45.0	0.0	3764	.421E-03	3630	.526E-03			.947E-03
95	3.9	0.0	0.0	3803	.426E-03	3629	.526E-03			.952E-03
104	4.2	0.0	0.0	3742	.418E-03	3569	.516E-03			.934E-03

RUN # 205

305FT;TEST NO. FB385;
100%,IN;BLE205::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S		
EXIT VEL.	1.81 M/S	19.98 M/S	1.84 M/S	20.39 M/S		
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.49E+03		.10E+03			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1366	.115E-03	1270	.178E-03			.293E-03
11	.9	0.0	0.0	2406	.252E-03	2560	.375E-03			.627E-03
16	1.2	15.0	0.0	2347	.244E-03	2470	.361E-03			.606E-03
17	1.2	0.0	0.0	3086	.342E-03	3380	.500E-03			.842E-03
18	1.2	-15.0	0.0	2927	.321E-03	3154	.466E-03			.787E-03
23	1.5	30.0	0.0	3179	.354E-03	3466	.513E-03			.867E-03
24	1.5	0.0	0.0	3274	.367E-03	3550	.526E-03			.893E-03
25	1.5	-30.0	0.0	3143	.349E-03	3385	.501E-03			.850E-03
29	1.8	60.0	0.0	2699	.291E-03	2865	.422E-03			.712E-03
30	1.8	30.0	0.0	3426	.387E-03	3714	.551E-03			.938E-03
31	1.8	0.0	0.0	3735	.427E-03	4079	.607E-03			.103E-02
32	1.8	-30.0	0.0	3404	.384E-03	3678	.546E-03			.929E-03
37	2.1	60.0	0.0	2606	.279E-03	2713	.398E-03			.677E-03
38	2.1	30.0	0.0	3506	.397E-03	3772	.560E-03			.957E-03
39	2.1	0.0	0.0	3742	.428E-03	4020	.598E-03			.103E-02
40	2.1	-30.0	0.0	3642	.415E-03	3892	.578E-03			.993E-03
41	2.1	-60.0	0.0	2922	.320E-03	3032	.447E-03			.767E-03
46	2.4	60.0	0.0	2981	.328E-03	3132	.462E-03			.790E-03
47	2.4	30.0	0.0	3607	.410E-03	3832	.569E-03			.980E-03
48	2.4	0.0	0.0	3813	.438E-03	4034	.600E-03			.104E-02
49	2.4	-30.0	0.0	3532	.401E-03	3692	.548E-03			.948E-03
50	2.4	-60.0	0.0	3005	.331E-03	3058	.451E-03			.782E-03
56	2.7	60.0	0.0	2907	.318E-03	3011	.444E-03			.762E-03
57	2.7	30.0	0.0	3575	.406E-03	3767	.559E-03			.966E-03
58	2.7	0.0	0.0	3720	.425E-03	3934	.585E-03			.101E-02
59	2.7	-30.0	0.0	3543	.402E-03	3681	.546E-03			.948E-03
60	2.7	-60.0	0.0	3030	.334E-03	3057	.451E-03			.785E-03
66	3.0	90.0	0.0	2362	.246E-03	2336	.341E-03			.587E-03
67	3.0	45.0	0.0	3324	.373E-03	3458	.512E-03			.885E-03
68	3.0	0.0	0.0	3679	.420E-03	3846	.571E-03			.991E-03
69	3.0	-45.0	0.0	3428	.387E-03	3495	.518E-03			.905E-03
75	3.3	90.0	0.0	2422	.254E-03	2382	.349E-03			.603E-03
76	3.3	45.0	0.0	3312	.372E-03	3417	.506E-03			.877E-03
77	3.3	0.0	0.0	3630	.413E-03	3743	.556E-03			.969E-03
78	3.3	-45.0	0.0	3289	.369E-03	3289	.486E-03			.855E-03
79	3.3	-90.0	0.0	2461	.260E-03	2317	.338E-03			.597E-03
85	3.6	45.0	0.0	3281	.368E-03	3363	.498E-03			.865E-03
86	3.6	0.0	0.0	3534	.401E-03	3629	.538E-03			.939E-03
87	3.6	-45.0	0.0	3104	.344E-03	3047	.449E-03			.794E-03
88	3.6	-90.0	0.0	2424	.255E-03	2263	.330E-03			.584E-03
94	3.9	45.0	0.0	3220	.359E-03	3257	.481E-03			.841E-03
95	3.9	0.0	0.0	3422	.386E-03	3457	.512E-03			.898E-03
104	4.2	0.0	0.0	3406	.384E-03	3423	.507E-03			.891E-03

RUN # 204

305FT,TEST NO. FB305,
100%,IN,BLE206::17,230

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.90 M/S	1.35 M/S	14.90 M/S		
EXIT VEL.	1.81 M/S	19.90 M/S	1.84 M/S	20.39 M/S		
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.92E+03		.52E+03			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1640	.955E-04	1695	.179E-03			.275E-03
11	.9	0.0	0.0	2227	.173E-03	2643	.324E-03			.497E-03
16	1.2	15.0	0.0	2250	.178E-03	2701	.333E-03			.511E-03
17	1.2	0.0	0.0	2628	.226E-03	3212	.411E-03			.637E-03
18	1.2	-15.0	0.0	2469	.205E-03	2971	.374E-03			.579E-03
23	1.5	30.0	0.0	2810	.250E-03	3410	.441E-03			.691E-03
24	1.5	0.0	0.0	2900	.261E-03	3506	.456E-03			.717E-03
25	1.5	-30.0	0.0	2532	.213E-03	2905	.376E-03			.589E-03
29	1.8	60.0	0.0	2744	.241E-03	3234	.414E-03			.655E-03
30	1.8	30.0	0.0	2987	.273E-03	3564	.465E-03			.738E-03
31	1.8	0.0	0.0	3069	.284E-03	3682	.483E-03			.766E-03
32	1.8	-30.0	0.0	2608	.223E-03	3017	.381E-03			.604E-03
37	2.1	60.0	0.0	2666	.231E-03	3040	.385E-03			.615E-03
38	2.1	30.0	0.0	3099	.289E-03	3629	.475E-03			.762E-03
39	2.1	0.0	0.0	3187	.299E-03	3744	.492E-03			.791E-03
40	2.1	-30.0	0.0	2814	.250E-03	3220	.412E-03			.662E-03
41	2.1	-60.0	0.0	2332	.187E-03	2520	.305E-03			.492E-03
45	2.4	60.0	0.0	2920	.264E-03	3320	.427E-03			.692E-03
47	2.4	30.0	0.0	3205	.302E-03	3697	.485E-03			.787E-03
48	2.4	0.0	0.0	3194	.300E-03	3686	.483E-03			.783E-03
49	2.4	-30.0	0.0	2795	.248E-03	3124	.397E-03			.645E-03
50	2.4	-60.0	0.0	2347	.189E-03	2493	.301E-03			.490E-03
56	2.7	60.0	0.0	2905	.262E-03	3227	.413E-03			.675E-03
57	2.7	30.0	0.0	3199	.301E-03	3621	.473E-03			.774E-03
58	2.7	0.0	0.0	3267	.310E-03	3681	.483E-03			.792E-03
59	2.7	-30.0	0.0	2862	.256E-03	3142	.400E-03			.657E-03
60	2.7	-60.0	0.0	2510	.210E-03	2647	.325E-03			.535E-03
66	3.0	90.0	0.0	2600	.222E-03	2753	.341E-03			.563E-03
67	3.0	45.0	0.0	3176	.298E-03	3515	.457E-03			.755E-03
68	3.0	0.0	0.0	3339	.319E-03	3704	.486E-03			.805E-03
69	3.0	-45.0	0.0	2789	.247E-03	2933	.369E-03			.615E-03
70	3.0	-90.0	0.0	2246	.175E-03	2231	.261E-03			.437E-03
75	3.3	90.0	0.0	2672	.231E-03	2809	.349E-03			.581E-03
76	3.3	45.0	0.0	3212	.303E-03	3422	.454E-03			.756E-03
77	3.3	0.0	0.0	3335	.319E-03	3625	.474E-03			.793E-03
78	3.3	-45.0	0.0	2819	.251E-03	2927	.367E-03			.618E-03
79	3.3	-90.0	0.0	2288	.181E-03	2241	.263E-03			.444E-03
84	3.6	90.0	0.0	2739	.240E-03	2863	.358E-03			.598E-03
85	3.6	45.0	0.0	3260	.309E-03	3495	.454E-03			.763E-03
86	3.6	0.0	0.0	3279	.311E-03	3473	.451E-03			.762E-03
87	3.6	-45.0	0.0	2846	.254E-03	2899	.363E-03			.618E-03
88	3.6	-90.0	0.0	2235	.174E-03	2155	.250E-03			.423E-03
94	3.9	45.0	0.0	3228	.305E-03	3413	.442E-03			.746E-03
95	3.9	0.0	0.0	3224	.304E-03	3391	.438E-03			.742E-03
104	4.2	0.0	0.0	3238	.306E-03	3349	.432E-03			.738E-03

RUN # 207

STACK #1 | STACK #2 | STACK #3

305FT, TEST NO. FD385, 100%,IN,BLE207::17,198

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.20 M/S	1.35 M/S	14.20 M/S		
EXIT VEL.	1.01 M/S	12.98 M/S	1.04 M/S	20.32 M/S		
VOL. FLOW	.27E+03M3/S	.27E+03M3/S	.22E+03M3/S	.29E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.52E+03		.12E+03			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	727	.277E-04	209	.257E-04			.533E-04
2	2.7	225.0	0.0	779	.345E-04	330	.331E-04			.676E-04
3	2.7	210.0	0.0	925	.405E-04	307	.405E-04			.810E-04
4	2.7	195.0	0.0	936	.550E-04	470	.532E-04			.109E-03
5	2.7	180.0	0.0	1052	.702E-04	551	.655E-04			.136E-03
6	2.7	165.0	0.0	1142	.820E-04	650	.805E-04			.163E-03
7	2.7	150.0	0.0	1245	.955E-04	716	.905E-04			.186E-03
8	2.7	135.0	0.0	1356	.110E-03	814	.105E-03			.215E-03
9	2.7	120.0	0.0	1441	.124E-03	884	.114E-03			.240E-03
10	2.7	105.0	0.0	1600	.142E-03	1000	.134E-03			.276E-03
11	2.7	75.0	0.0	1818	.171E-03	1171	.160E-03			.330E-03
12	2.7	60.0	0.0	1926	.185E-03	1250	.173E-03			.358E-03
13	2.7	45.0	0.0	1980	.193E-03	1303	.180E-03			.373E-03
14	2.7	30.0	0.0	1932	.186E-03	1231	.169E-03			.354E-03
15	2.7	15.0	0.0	1959	.189E-03	1264	.174E-03			.363E-03
16	2.7	0.0	0.0	1975	.190E-03	1213	.166E-03			.356E-03
17	2.7	-15.0	0.0	1803	.172E-03	841	.109E-03			.281E-03
18	2.7	-30.0	0.0	1581	.148E-03	948	.126E-03			.274E-03
19	2.7	-45.0	0.0	1447	.132E-03	835	.109E-03			.241E-03
20	2.7	-60.0	0.0	1334	.119E-03	756	.966E-04			.215E-03
21	2.7	-75.0	0.0	1200	.103E-03	641	.791E-04			.182E-03
22	2.7	-90.0	0.0	1124	.937E-04	585	.706E-04			.164E-03
23	2.7	-105.0	0.0	1009	.804E-04	508	.588E-04			.139E-03
24	2.7	-120.0	0.0	918	.697E-04	436	.480E-04			.118E-03
25	2.7	-135.0	0.0	852	.610E-04	398	.422E-04			.103E-03
26	2.7	-150.0	0.0	799	.543E-04	350	.349E-04			.892E-04
27	2.7	-165.0	0.0	733	.464E-04	341	.336E-04			.800E-04
28	2.7	-180.0	0.0	644	.360E-04	274	.234E-04			.594E-04
29	2.7	-195.0	0.0	597	.304E-04	190	.106E-04			.410E-04
30	2.7	-210.0	0.0	579	.282E-04	176	.850E-05			.367E-04
31	2.7	-225.0	0.0	554	.252E-04	169	.744E-05			.326E-04
32	2.7	-240.0	0.0	551	.251E-04	200	.121E-04			.372E-04
33	2.7	-240.0	0.0	551	.459E-05	200	.121E-04			.167E-04

RUN # 208

385FT, TEST NO. FA385,
100%,IN:BLE208::17:1[illegible]

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.21 M/S	13.35 M/S	1.21 M/S	13.35 M/S	1.21 M/S	13.35 M/S
EXIT VEL.	1.81 M/S	19.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.53E+02		.11E+03		.90E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	STACK #1 RAW (AREA)	STACK #1 CONCENTRATION (GM/M**3)	STACK #2 RAW (AREA)	STACK #2 CONCENTRATION (GM/M**3)	STACK #3 RAW (AREA)	STACK #3 CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
10	.9	15.0	0.0	710	.240E-04	415	.464E-04	733	.217E-04	.921E-04
11	.9	0.0	0.0	624	.127E-04	290	.273E-04	506	.140E-04	.540E-04
12	.9	-15.0	0.0	657	.170E-04	330	.334E-04	572	.162E-04	.667E-04
23	1.5	30.0	0.0	887	.473E-04	670	.854E-04	1293	.405E-04	.173E-03
24	1.5	0.0	0.0	821	.386E-04	563	.690E-04	1153	.358E-04	.143E-03
25	1.5	-30.0	0.0	708	.237E-04	404	.448E-04	796	.238E-04	.923E-04
53	2.7	150.0	0.0	850	.424E-04	529	.638E-04	783	.234E-04	.130E-03
54	2.7	120.0	0.0	892	.480E-04	629	.791E-04	955	.292E-04	.156E-03
55	2.7	90.0	0.0	987	.605E-04	733	.950E-04	1253	.392E-04	.195E-03
56	2.7	60.0	0.0	1004	.627E-04	762	.994E-04	1403	.443E-04	.206E-03
57	2.7	30.0	0.0	975	.589E-04	765	.999E-04	1435	.453E-04	.204E-03
58	2.7	0.0	0.0	899	.489E-04	666	.848E-04	1321	.415E-04	.175E-03
59	2.7	-30.0	0.0	792	.348E-04	533	.645E-04	1063	.328E-04	.132E-03
60	2.7	-60.0	0.0	716	.248E-04	384	.417E-04	836	.251E-04	.916E-04
61	2.7	-90.0	0.0	669	.186E-04	321	.321E-04	652	.189E-04	.696E-04
62	2.7	-120.0	0.0	620	.121E-04	254	.218E-04	483	.132E-04	.472E-04
63	2.7	-150.0	0.0	602	.975E-05	219	.165E-04	369	.940E-05	.357E-04

RUN # 209

385FT, TEST NO. FA385;
100%,IN,PLE209::17,199

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.12 M/S	12.36 M/S	1.12 M/S	12.36 M/S	1.12 M/S	12.36 M/S
EXIT VEL.	1.81 M/S	17.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.47E+03		.55E+02		.50E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
10	.9	15.0	0.0	529	.725E-05	217	.247E-04	404	.119E-04	.439E-04
11	.9	0.0	0.0	498	.316E-05	151	.147E-04	264	.721E-05	.250E-04
12	.9	-15.0	0.0	504	.395E-05	146	.139E-04	293	.819E-05	.260E-04
23	1.5	30.0	0.0	598	.163E-04	329	.418E-04	694	.217E-04	.799E-04
24	1.5	0.0	0.0	580	.140E-04	292	.362E-04	698	.218E-04	.720E-04
25	1.5	-30.0	0.0	544	.922E-05	196	.215E-04	493	.149E-04	.457E-04
54	2.7	120.0	0.0	633	.210E-04	331	.421E-04	425	.126E-04	.757E-04
55	2.7	90.0	0.0	675	.265E-04	362	.469E-04	582	.179E-04	.913E-04
56	2.7	60.0	0.0	686	.279E-04	368	.478E-04	687	.215E-04	.972E-04
57	2.7	30.0	0.0	685	.278E-04	460	.618E-04	807	.255E-04	.115E-03
58	2.7	0.0	0.0	641	.220E-04	400	.527E-04	787	.248E-04	.995E-04
59	2.7	-30.0	0.0	579	.138E-04	339	.434E-04	648	.202E-04	.774E-04
60	2.7	-60.0	0.0	556	.108E-04	186	.200E-04	476	.144E-04	.452E-04
61	2.7	-90.0	0.0	514	.527E-05	136	.124E-04	303	.853E-05	.262E-04
63	2.7	-150.0	0.0	469	.000E+00	56	.153E-06	57	.236E-06	.389E-06

RUN # 210

473ET,TEST NO. FA475,
100%,IN,BLE210::17,250

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S	1.37 M/S	15.45 M/S
EXIT VEL.	1.81 M/S	17.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.32E+05	
BACKGROUND	.48E+02		.94E+02		.56E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.13E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
11	.9	0.0	0.0	607	.178E-04	534	.427E-04	176	.419E-05	.917E-04
17	1.2	0.0	0.0	529	.147E-04	554	.729E 04	160	.391E-05	.935E-04
23	1.5	30.0	0.0	850	.510E-04	1200	.175E 03	372	.110E-04	.237E-03
24	1.5	0.0	0.0	810	.455E-04	1125	.163E 03	330	.986E-05	.219E-03
25	1.5	-30.0	0.0	725	.337E-04	870	.123E-03	265	.731E-05	.164E-03
31	1.8	0.0	0.0	988	.562E-04	1225	.190E 03	407	.123E-04	.259E-03
32	1.8	-30.0	0.0	799	.440E-04	1035	.149E-03	336	.979E-05	.203E-03
37	2.1	60.0	0.0	946	.641E-04	1443	.214E 03	451	.130E-04	.292E-03
38	2.1	30.0	0.0	963	.664E-04	1494	.222E-03	465	.143E-04	.302E-03
39	2.1	0.0	0.0	940	.633E-04	1394	.206E-03	453	.139E-04	.283E-03
40	2.1	-30.0	0.0	899	.577E-04	1207	.176E-03	396	.119E-04	.246E-03
41	2.1	-60.0	0.0	736	.354E-04	842	.120E-03	293	.828E-05	.163E-03
46	2.4	60.0	0.0	940	.633E-04	1427	.211E-03	459	.141E-04	.289E-03
47	2.4	30.0	0.0	1038	.767E-04	1624	.242E 03	527	.165E-04	.336E-03
48	2.4	0.0	0.0	948	.644E-04	1393	.206E-03	470	.145E-04	.285E-03
49	2.4	-30.0	0.0	863	.555E-04	1204	.176E 03	425	.129E-04	.244E-03
50	2.4	-60.0	0.0	764	.392E-04	893	.127E-03	316	.909E-05	.175E-03
55	2.7	90.0	0.0	943	.637E-04	1355	.200E-03	456	.140E-04	.277E-03
56	2.7	60.0	0.0	1001	.716E-04	1549	.230E-03	511	.159E-04	.318E-03
57	2.7	30.0	0.0	1061	.798E-04	1650	.246E-03	559	.176E-04	.344E-03
59	2.7	-30.0	0.0	904	.584E-04	1200	.175E-03	426	.129E-04	.246E-03
60	2.7	-60.0	0.0	803	.446E-04	949	.135E-03	347	.102E-04	.190E-03
61	2.7	-90.0	0.0	706	.313E-04	686	.938E-04	264	.727E-05	.132E-03
66	3.0	90.0	0.0	951	.648E-04	1340	.197E-03	459	.141E-04	.276E-03
67	3.0	45.0	0.0	1059	.796E-04	1644	.246E-03	557	.175E-04	.343E-03
68	3.0	0.0	0.0	1009	.727E-04	1468	.218E-03	532	.166E-04	.307E-03
69	3.0	-45.0	0.0	896	.573E-04	1120	.163E-03	420	.127E-04	.233E-03
70	3.0	-90.0	0.0	740	.359E-04	735	.102E-03	291	.821E-05	.146E-03
75	3.3	90.0	0.0	984	.693E-04	1401	.207E-03	488	.151E-04	.291E-03
76	3.3	45.0	0.0	1061	.798E-04	1603	.239E-03	567	.179E-04	.337E-03
77	3.3	0.0	0.0	1034	.761E-04	1427	.211E-03	544	.171E-04	.304E-03
78	3.3	-45.0	0.0	912	.595E-04	1127	.164E-03	450	.138E-04	.237E-03
79	3.3	-90.0	0.0	788	.425E-04	783	.109E-03	334	.972E-05	.161E-03
85	3.6	45.0	0.0	1085	.831E-04	1585	.236E-03	606	.185E-04	.338E-03
86	3.6	0.0	0.0	1044	.775E-04	1420	.210E-03	566	.178E-04	.305E-03
87	3.6	-45.0	0.0	942	.636E-04	1126	.163E-03	485	.150E-04	.242E-03
95	3.9	0.0	0.0	1084	.830E-04	1459	.216E-03	599	.190E-04	.318E-03
96	3.9	-45.0	0.0	979	.686E-04	1157	.168E-03	511	.159E-04	.253E-03
103	4.2	45.0	0.0	1142	.909E-04	1573	.234E-03	643	.205E-04	.346E-03
104	4.2	0.0	0.0	1096	.846E-04	1425	.211E-03	622	.198E-04	.315E-03
105	4.2	-45.0	0.0	1007	.724E-04	1151	.167E-03	541	.170E-04	.257E-03
113	4.5	0.0	0.0	1136	.901E-04	1420	.210E-03	641	.204E-04	.321E-03
122	4.8	0.0	0.0	1206	.996E-04	1490	.221E-03	707	.228E-04	.344E-03

RUN # 211

#73FT,TEST NO. FA475,
100%,IN,BLE211::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S
EXIT VEL.	1.81 M/S	17.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.45E+03		.86E+02		.67E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
11	.9	0.0	0.0	750	.405E-04	443	.565E-04	474	.142E-04	.111E-03
17	1.2	0.0	0.0	753	.409E-04	459	.591E-04	462	.141E-04	.114E-03
24	1.5	0.0	0.0	1153	.955E-04	961	.139E-03	1015	.331E-04	.267E-03
30	1.8	30.0	0.0	1188	.100E-03	1012	.147E-03	1050	.344E-04	.281E-03
31	1.8	0.0	0.0	1250	.109E-03	1117	.163E-03	1132	.372E-04	.309E-03
32	1.8	-30.0	0.0	1190	.101E-03	1007	.146E-03	1047	.343E-04	.281E-03
38	2.1	30.0	0.0	1267	.111E-03	1133	.166E-03	1148	.378E-04	.315E-03
39	2.1	0.0	0.0	1280	.113E-03	1140	.167E-03	1145	.377E-04	.318E-03
40	2.1	-30.0	0.0	1265	.111E-03	1119	.164E-03	1128	.371E-04	.312E-03
46	2.4	60.0	0.0	1167	.975E-04	1005	.146E-03	988	.322E-04	.275E-03
47	2.4	30.0	0.0	1346	.122E-03	1237	.182E-03	1220	.403E-04	.345E-03
48	2.4	0.0	0.0	1328	.119E-03	1226	.181E-03	1204	.397E-04	.340E-03
49	2.4	-30.0	0.0	1260	.110E-03	1118	.163E-03	1110	.365E-04	.310E-03
50	2.4	-60.0	0.0	1108	.894E-04	900	.129E-03	912	.295E-04	.248E-03
56	2.7	60.0	0.0	1249	.109E-03	1114	.163E-03	1084	.355E-04	.307E-03
57	2.7	30.0	0.0	1380	.127E-03	1284	.190E-03	1240	.410E-04	.357E-03
59	2.7	-30.0	0.0	1284	.113E-03	1117	.163E-03	1128	.371E-04	.314E-03
60	2.7	-60.0	0.0	1176	.987E-04	971	.140E-03	964	.314E-04	.270E-03
66	3.0	90.0	0.0	1110	.897E-04	947	.136E-03	884	.286E-04	.255E-03
67	3.0	45.0	0.0	1354	.123E-03	1255	.185E-03	1188	.392E-04	.347E-03
68	3.0	0.0	0.0	1413	.131E-03	1328	.197E-03	1266	.419E-04	.370E-03
69	3.0	-45.0	0.0	1249	.109E-03	1060	.154E-03	1046	.342E-04	.297E-03
70	3.0	-90.0	0.0	1046	.809E-04	785	.111E-03	787	.252E-04	.217E-03
75	3.3	90.0	0.0	1152	.954E-04	993	.144E-03	929	.301E-04	.269E-03
76	3.3	45.0	0.0	1368	.125E-03	1291	.191E-03	1190	.393E-04	.355E-03
77	3.3	0.0	0.0	1415	.131E-03	1298	.192E-03	1242	.411E-04	.364E-03
78	3.3	-45.0	0.0	1308	.117E-03	1138	.167E-03	1099	.361E-04	.319E-03
79	3.3	-90.0	0.0	1071	.843E-04	800	.114E-03	799	.256E-04	.224E-03
84	3.6	90.0	0.0	1181	.994E-04	1025	.149E-03	940	.305E-04	.279E-03
85	3.6	45.0	0.0	1380	.127E-03	1288	.190E-03	1179	.389E-04	.356E-03
86	3.6	0.0	0.0	1409	.131E-03	1290	.191E-03	1219	.403E-04	.362E-03
87	3.6	-45.0	0.0	1319	.118E-03	1118	.163E-03	1083	.355E-04	.317E-03
88	3.6	-90.0	0.0	1079	.854E-04	786	.111E-03	798	.256E-04	.222E-03
93	3.9	90.0	0.0	1200	.102E-03	1038	.151E-03	951	.309E-04	.284E-03
95	3.9	0.0	0.0	1398	.129E-03	1275	.188E-03	1195	.394E-04	.357E-03
96	3.9	-45.0	0.0	1361	.124E-03	1157	.170E-03	1116	.367E-04	.330E-03
97	3.9	-90.0	0.0	1147	.947E-04	848	.121E-03	842	.271E-04	.243E-03
103	4.2	45.0	0.0	1386	.127E-03	1259	.184E-03	1141	.375E-04	.351E-03
105	4.2	-45.0	0.0	1324	.119E-03	1104	.161E-03	1050	.344E-04	.315E-03
106	4.2	-90.0	0.0	1432	.134E-03	1274	.188E-03	1201	.396E-04	.361E-03
112	4.5	45.0	0.0	1397	.129E-03	1267	.187E-03	1176	.388E-04	.355E-03
113	4.5	0.0	0.0	1430	.133E-03	1268	.187E-03	1190	.393E-04	.360E-03
114	4.5	-45.0	0.0	1408	.130E-03	1179	.173E-03	1139	.375E-04	.341E-03
122	4.8	0.0	0.0	1455	.137E-03	1276	.188E-03	1175	.387E-04	.364E-03

RUN # 212

473FT,TEST NO. FA475,
100%,IN,BLE212:117,290

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S
EXIT VEL.	1.81 M/S	19.90 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.45E+03		.72E+02		.67E+02	
CALIBRATION FACTOR	.44E-02		.24E-02		.16E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
11	.9	0.0	0.0	613	.225E-04	215	.220E-04	259	.686E-05	.514E-04
17	1.2	0.0	0.0	663	.295E-04	234	.251E-04	323	.215E-05	.637E-04
24	1.5	0.0	0.0	976	.732E-04	485	.657E-04	656	.210E-04	.160E-03
30	1.8	30.0	0.0	1029	.804E-04	520	.714E-04	687	.222E-04	.174E-03
31	1.8	0.0	0.0	1134	.953E-04	592	.831E-04	799	.262E-04	.205E-03
32	1.8	-30.0	0.0	1113	.924E-04	570	.795E-04	775	.253E-04	.197E-03
38	2.1	30.0	0.0	1096	.900E-04	561	.781E-04	764	.249E-04	.193E-03
39	2.1	0.0	0.0	1232	.109E-03	662	.944E-04	894	.296E-04	.233E-03
40	2.1	-30.0	0.0	1229	.109E-03	646	.918E-04	882	.291E-04	.230E-03
46	2.4	60.0	0.0	973	.720E-04	488	.662E-04	625	.199E-04	.159E-03
47	2.4	30.0	0.0	1191	.103E-03	642	.912E-04	853	.281E-04	.223E-03
48	2.4	0.0	0.0	1323	.122E-03	716	.103E-03	968	.320E-04	.257E-03
49	2.4	-30.0	0.0	1291	.117E-03	695	.998E-04	922	.306E-04	.248E-03
56	2.7	60.0	0.0	1080	.878E-04	572	.798E-04	727	.236E-04	.191E-03
57	2.7	30.0	0.0	1244	.111E-03	678	.970E-04	899	.297E-04	.237E-03
58	2.7	0.0	0.0	1347	.125E-03	745	.108E-03	973	.324E-04	.265E-03
59	2.7	-30.0	0.0	1340	.124E-03	727	.105E-03	968	.322E-04	.261E-03
60	2.7	-60.0	0.0	1248	.111E-03	658	.938E-04	877	.289E-04	.234E-03
66	3.0	90.0	0.0	909	.750E-04	518	.711E-04	638	.204E-04	.167E-03
67	3.0	45.0	0.0	1227	.108E-03	685	.981E-04	862	.284E-04	.235E-03
68	3.0	0.0	0.0	1391	.131E-03	795	.116E-03	1024	.342E-04	.281E-03
69	3.0	-45.0	0.0	1344	.125E-03	732	.106E-03	953	.317E-04	.262E-03
70	3.0	-90.0	0.0	1138	.959E-04	574	.802E-04	746	.243E-04	.200E-03
75	3.3	90.0	0.0	1009	.778E-04	535	.738E-04	647	.207E-04	.172E-03
76	3.3	45.0	0.0	1270	.114E-03	723	.104E-03	904	.292E-04	.249E-03
77	3.3	0.0	0.0	1419	.135E-03	811	.119E-03	1038	.347E-04	.288E-03
78	3.3	-45.0	0.0	1358	.127E-03	758	.110E-03	970	.323E-04	.269E-03
79	3.3	-90.0	0.0	1126	.942E-04	563	.784E-04	725	.235E-04	.196E-03
84	3.6	90.0	0.0	1036	.816E-04	562	.782E-04	661	.212E-04	.181E-03
85	3.6	45.0	0.0	1299	.118E-03	746	.108E-03	922	.306E-04	.257E-03
86	3.6	0.0	0.0	1445	.139E-03	841	.123E-03	1063	.356E-04	.298E-03
87	3.6	-45.0	0.0	1367	.128E-03	770	.112E-03	966	.321E-04	.272E-03
88	3.6	-90.0	0.0	1102	.900E-04	558	.776E-04	702	.227E-04	.191E-03
93	3.9	90.0	0.0	1093	.896E-04	608	.857E-04	715	.232E-04	.198E-03
95	3.9	0.0	0.0	1459	.141E-03	870	.128E-03	1092	.366E-04	.305E-03
96	3.9	-45.0	0.0	1393	.132E-03	795	.116E-03	985	.328E-04	.280E-03
97	3.9	-90.0	0.0	1145	.960E-04	593	.832E-04	733	.238E-04	.204E-03
103	4.2	45.0	0.0	1353	.126E-03	892	.132E-03	988	.329E-04	.290E-03
104	4.2	0.0	0.0	1421	.145E-03	899	.133E-03	1095	.367E-04	.315E-03
105	4.2	-45.0	0.0	1381	.130E-03	802	.117E-03	963	.320E-04	.279E-03
112	4.5	45.0	0.0	1386	.131E-03	842	.124E-03	1004	.335E-04	.288E-03
113	4.5	0.0	0.0	1474	.143E-03	900	.133E-03	1094	.367E-04	.312E-03
114	4.5	-45.0	0.0	1426	.136E-03	828	.121E-03	1012	.339E-04	.291E-03
122	4.8	0.0	0.0	1511	.148E-03	922	.137E-03	1103	.370E-04	.322E-03

RUN # 213

473FT,TEST NO. FA475,
100%,IN,BLE213::17,310

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.39 M/S	15.45 M/S	1.32 M/S	15.45 M/S	1.32 M/S	15.45 M/S
EXIT VEL.	1.81 M/S	12.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.22E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.45E+03		.67E+02		.72E+02	
CALIBRATION FACTOR	.44E-02		.24E-02		.16E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
56	2.7	60.0	0.0	1086	.892E-04	315	.402E-04	337	.922E-05	.139E-03
57	2.7	30.0	0.0	1361	.120E-03	402	.543E-04	437	.120E-04	.195E-03
58	2.7	0.0	0.0	1506	.148E-03	451	.622E-04	487	.146E-04	.225E-03
59	2.7	-30.0	0.0	1512	.149E-03	454	.627E-04	476	.142E-04	.226E-03
60	2.7	-60.0	0.0	1442	.139E-03	427	.583E-04	444	.130E-04	.210E-03
66	3.0	90.0	0.0	908	.643E-04	272	.332E-04	205	.736E-05	.105E-03
67	3.0	45.0	0.0	1279	.116E-03	406	.549E-04	414	.120E-04	.183E-03
68	3.0	0.0	0.0	1575	.157E-03	498	.698E-04	516	.156E-04	.243E-03
69	3.0	-45.0	0.0	1570	.157E-03	487	.680E-04	499	.150E-04	.240E-03
70	3.0	-90.0	0.0	1344	.125E-03	407	.551E-04	412	.119E-04	.192E-03
75	3.3	90.0	0.0	990	.757E-04	304	.384E-04	316	.847E-05	.123E-03
76	3.3	45.0	0.0	1339	.125E-03	437	.599E-04	452	.133E-04	.198E-03
77	3.3	0.0	0.0	1623	.164E-03	529	.748E-04	548	.168E-04	.256E-03
78	3.3	-45.0	0.0	1613	.163E-03	531	.751E-04	537	.164E-04	.254E-03
79	3.3	-90.0	0.0	1378	.130E-03	433	.593E-04	443	.130E-04	.202E-03
84	3.6	90.0	0.0	1065	.862E-04	343	.447E-04	360	.100E-04	.141E-03
85	3.6	45.0	0.0	1400	.133E-03	456	.630E-04	488	.146E-04	.211E-03
86	3.6	0.0	0.0	1660	.169E-03	553	.767E-04	581	.172E-04	.266E-03
87	3.6	-45.0	0.0	1626	.165E-03	556	.792E-04	570	.175E-04	.261E-03
88	3.6	-90.0	0.0	1371	.129E-03	445	.612E-04	446	.131E-04	.203E-03
93	3.9	90.0	0.0	1080	.883E-04	361	.476E-04	383	.109E-04	.147E-03
94	3.9	45.0	0.0	1432	.130E-03	478	.666E-04	502	.151E-04	.219E-03
95	3.9	0.0	0.0	1687	.173E-03	583	.836E-04	608	.189E-04	.276E-03
96	3.9	-45.0	0.0	1651	.168E-03	585	.839E-04	595	.184E-04	.270E-03
97	3.9	-90.0	0.0	1449	.140E-03	493	.690E-04	497	.149E-04	.224E-03
103	4.2	45.0	0.0	1472	.143E-03	516	.727E-04	541	.165E-04	.232E-03
104	4.2	0.0	0.0	1705	.176E-03	616	.889E-04	637	.199E-04	.285E-03
105	4.2	-45.0	0.0	1615	.163E-03	584	.837E-04	603	.187E-04	.266E-03
112	4.5	45.0	0.0	1507	.148E-03	552	.785E-04	576	.178E-04	.244E-03
113	4.5	0.0	0.0	1744	.181E-03	649	.943E-04	662	.208E-04	.296E-03
114	4.5	-45.0	0.0	1748	.182E-03	661	.962E-04	662	.208E-04	.299E-03
122	4.8	0.0	0.0	1814	.191E-03	713	.105E-03	720	.229E-04	.318E-03

RUN # 214

473FT,TEST NO.FA475
100%,IN,BLE214::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.16 M/S	12.75 M/S	1.16 M/S	12.75 M/S	1.16 M/S	12.75 M/S
EXIT VEL.	1.81 M/S	12.98 M/S	1.04 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.22E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.51E+03		.11E+03		.70E+02	
CALIBRATION FACTOR	.44E-02		.24E-02		.16E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
11	.9	0.0	0.0	596	.129E-04	234	.211E-04	247	.538E-05	.394E-04
17	1.2	0.0	0.0	597	.130E-04	240	.221E-04	243	.524E-05	.404E-04
24	1.5	0.0	0.0	755	.353E-04	476	.600E-04	492	.142E-04	.110E-03
30	1.8	30.0	0.0	799	.415E-04	584	.784E-04	542	.163E-04	.134E-03
31	1.8	0.0	0.0	827	.455E-04	602	.814E-04	596	.180E-04	.145E-03
32	1.8	-30.0	0.0	800	.417E-04	532	.692E-04	535	.158E-04	.127E-03
38	2.1	30.0	0.0	836	.468E-04	659	.906E-04	597	.180E-04	.155E-03
39	2.1	0.0	0.0	869	.514E-04	667	.920E-04	637	.195E-04	.163E-03
40	2.1	-30.0	0.0	841	.475E-04	600	.811E-04	592	.179E-04	.146E-03
46	2.4	60.0	0.0	807	.427E-04	623	.840E-04	546	.162E-04	.144E-03
47	2.4	30.0	0.0	878	.527E-04	726	.102E-03	650	.199E-04	.174E-03
48	2.4	0.0	0.0	897	.554E-04	702	.978E-04	662	.204E-04	.174E-03
49	2.4	-30.0	0.0	873	.520E-04	643	.881E-04	617	.188E-04	.159E-03
56	2.7	60.0	0.0	866	.510E-04	712	.994E-04	607	.184E-04	.169E-03
57	2.7	30.0	0.0	907	.568E-04	765	.108E-03	667	.206E-04	.185E-03
58	2.7	0.0	0.0	911	.574E-04	729	.102E-03	674	.208E-04	.180E-03
59	2.7	-30.0	0.0	883	.534E-04	650	.893E-04	627	.191E-04	.162E-03
60	2.7	-60.0	0.0	830	.459E-04	558	.742E-04	546	.162E-04	.136E-03
66	3.0	90.0	0.0	762	.363E-04	547	.724E-04	474	.136E-04	.122E-03
67	3.0	45.0	0.0	882	.533E-04	742	.104E-03	641	.196E-04	.177E-03
68	3.0	0.0	0.0	933	.605E-04	773	.109E-03	692	.215E-04	.191E-03
69	3.0	-45.0	0.0	870	.516E-04	625	.852E-04	604	.183E-04	.155E-03
70	3.0	-90.0	0.0	772	.377E-04	472	.601E-04	470	.134E-04	.111E-03
75	3.3	90.0	0.0	781	.390E-04	577	.773E-04	493	.143E-04	.131E-03
76	3.3	45.0	0.0	888	.541E-04	742	.104E-03	631	.193E-04	.178E-03
77	3.3	0.0	0.0	949	.627E-04	780	.111E-03	710	.221E-04	.195E-03
78	3.3	-45.0	0.0	869	.514E-04	646	.886E-04	598	.181E-04	.158E-03
79	3.3	-90.0	0.0	781	.390E-04	472	.601E-04	466	.133E-04	.112E-03
84	3.6	90.0	0.0	803	.421E-04	605	.819E-04	503	.146E-04	.139E-03
85	3.6	45.0	0.0	904	.564E-04	749	.105E-03	629	.192E-04	.181E-03
86	3.6	0.0	0.0	948	.626E-04	784	.111E-03	684	.212E-04	.195E-03
87	3.6	-45.0	0.0	884	.536E-04	631	.861E-04	616	.187E-04	.158E-03
88	3.6	-90.0	0.0	791	.404E-04	468	.594E-04	468	.134E-04	.113E-03
93	3.9	90.0	0.0	805	.424E-04	607	.822E-04	498	.145E-04	.139E-03
94	3.9	45.0	0.0	911	.574E-04	756	.107E-03	640	.196E-04	.184E-03
95	3.9	0.0	0.0	956	.637E-04	782	.111E-03	699	.217E-04	.196E-03
96	3.9	-45.0	0.0	916	.581E-04	668	.922E-04	630	.192E-04	.170E-03
97	3.9	-90.0	0.0	821	.447E-04	498	.644E-04	500	.145E-04	.124E-03
103	4.2	45.0	0.0	923	.591E-04	773	.109E-03	646	.198E-04	.188E-03
104	4.2	0.0	0.0	974	.663E-04	791	.112E-03	707	.220E-04	.201E-03
105	4.2	-45.0	0.0	897	.554E-04	631	.861E-04	601	.182E-04	.160E-03
112	4.5	45.0	0.0	936	.609E-04	786	.112E-03	651	.200E-04	.192E-03
113	4.5	0.0	0.0	983	.676E-04	784	.111E-03	691	.214E-04	.200E-03
114	4.5	-45.0	0.0	966	.652E-04	692	.961E-04	671	.207E-04	.182E-03
122	4.8	0.0	0.0	1004	.705E-04	810	.115E-03	718	.224E-04	.208E-03

RUN # 215

473FT,TEST NO.FA475
100%,IN,BLE215::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.73 M/S	19.12 M/S	1.73 M/S	19.12 M/S	1.73 M/S	19.12 M/S
EXIT VEL.	1.81 M/S	19.99 M/S	1.84 M/S	20.32 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.48E+03		.87E+02		.32E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.050E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
11	.9	0.0	0.0	1886	.187E-03	1681	.215E-03	1649	.549E-04	.487E-03
17	1.2	0.0	0.0	1828	.180E-03	1660	.242E-03	1605	.535E-04	.484E-03
24	1.5	0.0	0.0	3177	.358E-03	3043	.455E-03	2990	.101E-03	.914E-03
30	1.8	30.0	0.0	3578	.412E-03	3493	.524E-03	3395	.114E-03	.105E-02
31	1.8	0.0	0.0	3436	.393E-03	3316	.477E-03	3238	.109E-03	.999E-03
32	1.8	-30.0	0.0	2839	.313E-03	2623	.390E-03	2566	.861E-04	.790E-03
38	2.1	30.0	0.0	3857	.449E-03	3778	.569E-03	3622	.122E-03	.114E-02
39	2.1	0.0	0.0	3491	.400E-03	3345	.502E-03	3241	.109E-03	.101E-02
40	2.1	-30.0	0.0	2961	.330E-03	2739	.408E-03	2663	.894E-04	.827E-03
47	2.4	30.0	0.0	3889	.453E-03	3771	.567E-03	3618	.122E-03	.114E-02
48	2.4	0.0	0.0	3519	.404E-03	3338	.501E-03	3242	.109E-03	.101E-02
49	2.4	-30.0	0.0	2904	.322E-03	2659	.396E-03	2570	.862E-04	.804E-03
56	2.7	60.0	0.0	3828	.445E-03	3718	.559E-03	3548	.119E-03	.112E-02
57	2.7	30.0	0.0	3885	.452E-03	3764	.566E-03	3584	.121E-03	.114E-02
58	2.7	0.0	0.0	3535	.406E-03	3334	.500E-03	3207	.108E-03	.101E-02
59	2.7	-30.0	0.0	2938	.327E-03	2662	.396E-03	2590	.869E-04	.810E-03
60	2.7	-60.0	0.0	2445	.261E-03	2151	.318E-03	2056	.688E-04	.648E-03
66	3.0	90.0	0.0	3431	.392E-03	3297	.494E-03	3109	.105E-03	.991E-03
67	3.0	45.0	0.0	3876	.451E-03	3756	.565E-03	3571	.120E-03	.114E-02
68	3.0	0.0	0.0	3548	.408E-03	3342	.501E-03	3198	.108E-03	.102E-02
69	3.0	-45.0	0.0	2666	.290E-03	2360	.350E-03	2270	.760E-04	.717E-03
75	3.3	90.0	0.0	3447	.394E-03	3303	.495E-03	3113	.105E-03	.994E-03
76	3.3	45.0	0.0	3825	.444E-03	3684	.554E-03	3495	.118E-03	.112E-02
77	3.3	0.0	0.0	3395	.387E-03	3157	.473E-03	3028	.102E-03	.962E-03
78	3.3	-45.0	0.0	2613	.283E-03	2307	.342E-03	2197	.736E-04	.699E-03
79	3.3	-90.0	0.0	1859	.183E-03	1515	.220E-03	1434	.476E-04	.451E-03
84	3.6	90.0	0.0	3405	.389E-03	3244	.486E-03	3063	.103E-03	.978E-03
85	3.6	45.0	0.0	3759	.436E-03	3566	.536E-03	3359	.113E-03	.108E-02
86	3.6	0.0	0.0	3255	.369E-03	3006	.449E-03	2857	.960E-04	.914E-03
87	3.6	-45.0	0.0	2544	.274E-03	2235	.331E-03	2115	.708E-04	.676E-03
88	3.6	-90.0	0.0	1818	.178E-03	1472	.213E-03	1382	.459E-04	.437E-03
95	3.9	0.0	0.0	3159	.356E-03	2893	.432E-03	2733	.918E-04	.880E-03
96	3.9	-45.0	0.0	2529	.272E-03	2215	.328E-03	2086	.698E-04	.670E-03
97	3.9	-90.0	0.0	1830	.179E-03	1468	.216E-03	1417	.471E-04	.442E-03
103	4.2	45.0	0.0	3496	.401E-03	3242	.486E-03	3064	.103E-03	.990E-03
104	4.2	0.0	0.0	3074	.345E-03	2771	.413E-03	2632	.883E-04	.846E-03
105	4.2	-45.0	0.0	2398	.255E-03	2066	.305E-03	1960	.655E-04	.625E-03
112	4.5	45.0	0.0	3431	.392E-03	3187	.477E-03	3051	.103E-03	.972E-03
113	4.5	0.0	0.0	3016	.337E-03	2699	.402E-03	2575	.864E-04	.826E-03
114	4.5	-45.0	0.0	2492	.267E-03	2165	.320E-03	2049	.685E-04	.656E-03
122	4.8	0.0	0.0	2947	.328E-03	2636	.392E-03	2480	.832E-04	.803E-03

RUN # 216

473FT;TEST NO FA475;
100%;IN;BLE216;;17;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.07 M/S	22.94 M/S	2.07 M/S	22.94 M/S	2.07 M/S	22.94 M/S
EXIT VEL.	1.81 M/S	19.98 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.52E+03		.19E+03		.12E+03	
CALIBRATION FACTOR	.42E 02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1269	.227E-04	970	.119E-03	825	.262E-04	.245E-03
11	.9	0.0	0.0	2555	.270E-03	2311	.325E-03	2223	.712E-04	.667E-03
17	1.2	0.0	0.0	2715	.291E-03	2428	.343E-03	2294	.736E-04	.708E-03
24	1.5	30.0	0.0	4650	.548E-03	4482	.659E-03	4260	.140E-03	.135E-02
25	1.5	0.0	0.0	4506	.529E-03	4303	.631E-03	4113	.135E-03	.130E-02
26	1.5	-30.0	0.0	3781	.433E-03	3506	.509E-03	3358	.110E-03	.105E-02
30	1.8	30.0	0.0	5098	.607E-03	4901	.723E-03	4655	.154E-03	.148E-02
31	1.8	0.0	0.0	4801	.568E-03	4578	.673E-03	4342	.143E-03	.138E-02
32	1.8	-30.0	0.0	4005	.462E-03	3722	.542E-03	3540	.116E-03	.112E-02
37	2.1	60.0	0.0	5235	.625E-03	5061	.748E-03	4772	.158E-03	.153E-02
38	2.1	30.0	0.0	5337	.639E-03	5128	.758E-03	4860	.161E-03	.156E-02
39	2.1	0.0	0.0	4959	.589E-03	4696	.691E-03	4424	.146E-03	.143E-02
40	2.1	-30.0	0.0	4010	.463E-03	3715	.541E-03	3524	.115E-03	.112E-02
41	2.1	-60.0	0.0	2981	.327E-03	2666	.380E-03	2505	.808E-04	.787E-03
46	2.4	60.0	0.0	5394	.646E-03	5208	.770E-03	4913	.162E-03	.158E-02
47	2.4	30.0	0.0	5458	.655E-03	5256	.777E-03	4949	.164E-03	.160E-02
48	2.4	0.0	0.0	4958	.589E-03	4707	.693E-03	4422	.146E-03	.143E-02
49	2.4	-30.0	0.0	4100	.475E-03	3797	.553E-03	3571	.117E-03	.115E-02
50	2.4	-60.0	0.0	3105	.343E-03	2805	.401E-03	2639	.853E-04	.829E-03
56	2.7	60.0	0.0	5389	.646E-03	5180	.766E-03	4866	.161E-03	.157E-02
57	2.7	30.0	0.0	5387	.645E-03	5154	.762E-03	4843	.160E-03	.157E-02
58	2.7	0.0	0.0	4844	.573E-03	4573	.673E-03	4272	.141E-03	.139E-02
59	2.7	-30.0	0.0	4031	.466E-03	3736	.544E-03	3427	.114E-03	.112E-02
60	2.7	-60.0	0.0	3124	.345E-03	2811	.402E-03	2621	.847E-04	.832E-03
66	3.0	90.0	0.0	4714	.556E-03	4499	.661E-03	4227	.139E-03	.136E-02
67	3.0	45.0	0.0	5316	.636E-03	5099	.753E-03	4756	.157E-03	.155E-02
68	3.0	0.0	0.0	4712	.556E-03	4438	.652E-03	4129	.136E-03	.134E-02
69	3.0	-45.0	0.0	3486	.393E-03	3182	.459E-03	2948	.958E-04	.948E-03
75	3.3	90.0	0.0	4712	.556E-03	4489	.660E-03	4127	.139E-03	.135E-02
76	3.3	45.0	0.0	5018	.596E-03	4810	.709E-03	4453	.147E-03	.145E-02
77	3.3	0.0	0.0	4363	.510E-03	4108	.601E-03	3816	.125E-03	.124E-02
78	3.3	-45.0	0.0	3432	.386E-03	3132	.451E-03	2893	.939E-04	.932E-03
79	3.3	-90.0	0.0	2456	.257E-03	2131	.298E-03	1974	.628E-04	.617E-03
85	3.6	45.0	0.0	4826	.571E-03	4563	.671E-03	4246	.140E-03	.138E-02
86	3.6	0.0	0.0	4130	.472E-03	3836	.559E-03	3605	.118E-03	.116E-02
87	3.6	-45.0	0.0	3224	.359E-03	2910	.417E-03	2670	.864E-04	.862E-03
95	3.9	0.0	0.0	3965	.457E-03	3670	.534E-03	3427	.112E-03	.110E-02
96	3.9	-45.0	0.0	3149	.349E-03	2826	.404E-03	2625	.849E-04	.838E-03
103	4.2	45.0	0.0	4451	.521E-03	4172	.611E-03	3842	.126E-03	.126E-02
104	4.2	0.0	0.0	3889	.447E-03	3585	.521E-03	3308	.108E-03	.108E-02
105	4.2	-45.0	0.0	2895	.315E-03	2582	.367E-03	2405	.774E-04	.759E-03
113	4.5	0.0	0.0	3625	.412E-03	3334	.482E-03	3099	.101E-03	.995E-03
122	4.8	0.0	0.0	3454	.389E-03	3139	.452E-03	2894	.940E-04	.936E-03

RUN # 217

122FT, TEST NO. FA475,
100%,IN,BLE217::17,270

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	2.42 M/S	26.77 M/S	2.42 M/S	26.77 M/S	2.42 M/S	26.77 M/S
EXIT VEL.	1.81 M/S	19.90 M/S	1.84 M/S	20.39 M/S	1.99 M/S	22.00 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.50E+03		.13E+03		.20E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M	40.01 CM	144.03 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	STACK #1 RAW (AREA)	STACK #1 CONCENTRATION (GM/M**3)	STACK #2 RAW (AREA)	STACK #2 CONCENTRATION (GM/M**3)	STACK #3 RAW (AREA)	STACK #3 CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
3	.3	0.0	0.0	626	.163E-04	248	.109E-04	191	.410E-05	.294E-04
6	.6	0.0	0.0	1704	.170E-03	1341	.187E-03	1316	.424E-04	.400E-03
11	.9	0.0	0.0	2403	.252E-03	1964	.283E-03	1078	.621E-04	.597E-03
16	1.2	15.0	0.0	4890	.582E-03	4519	.676E-03	4313	.144E-03	.140E-02
17	1.2	0.0	0.0	4535	.535E-03	4156	.620E-03	3776	.133E-03	.129E-02
18	1.2	-15.0	0.0	4200	.491E-03	3792	.564E-03	3620	.121E-03	.118E-02
22	1.5	60.0	0.0	5331	.641E-03	5040	.756E-03	4727	.158E-03	.156E-02
23	1.5	30.0	0.0	5623	.680E-03	5300	.797E-03	5013	.168E-03	.164E-02
24	1.5	0.0	0.0	5217	.626E-03	4860	.728E-03	4630	.155E-03	.151E-02
25	1.5	-30.0	0.0	4265	.499E-03	3877	.577E-03	3711	.124E-03	.120E-02
26	1.5	-60.0	0.0	3137	.350E-03	2717	.399E-03	2620	.866E-04	.835E-03
29	1.8	60.0	0.0	5078	.714E-03	5551	.835E-03	5216	.175E-03	.172E-02
30	1.8	30.0	0.0	5703	.701E-03	5476	.823E-03	5167	.173E-03	.170E-02
31	1.8	0.0	0.0	5079	.607E-03	4725	.708E-03	4467	.149E-03	.146E-02
32	1.8	-30.0	0.0	4459	.525E-03	4088	.610E-03	3889	.130E-03	.126E-02
33	1.8	-60.0	0.0	3394	.384E-03	3003	.443E-03	2873	.952E-04	.922E-03
37	2.1	60.0	0.0	5952	.723E-03	5662	.852E-03	5301	.178E-03	.175E-02
38	2.1	30.0	0.0	5851	.710E-03	5511	.829E-03	5198	.174E-03	.171E-02
39	2.1	0.0	0.0	5231	.628E-03	4904	.735E-03	4612	.154E-03	.152E-02
40	2.1	-30.0	0.0	4491	.529E-03	4116	.614E-03	3925	.131E-03	.127E-02
41	2.1	-60.0	0.0	3493	.397E-03	3120	.461E-03	2949	.978E-04	.956E-03
46	2.4	60.0	0.0	5811	.705E-03	5501	.827E-03	5129	.172E-03	.170E-02
47	2.4	30.0	0.0	5690	.689E-03	5365	.806E-03	5019	.168E-03	.166E-02
48	2.4	0.0	0.0	4959	.592E-03	4632	.693E-03	4322	.144E-03	.143E-02
49	2.4	-30.0	0.0	4188	.489E-03	3837	.571E-03	3617	.120E-03	.118E-02
50	2.4	-60.0	0.0	3380	.382E-03	3005	.443E-03	2838	.940E-04	.919E-03
56	2.7	60.0	0.0	5767	.699E-03	5460	.821E-03	5079	.170E-03	.169E-02
57	2.7	30.0	0.0	5426	.654E-03	5095	.765E-03	4781	.160E-03	.158E-02
59	2.7	-30.0	0.0	4002	.475E-03	3736	.556E-03	3527	.117E-03	.115E-02
60	2.7	-60.0	0.0	3324	.375E-03	2952	.435E-03	2803	.929E-04	.902E-03
66	3.0	90.0	0.0	5252	.630E-03	4979	.747E-03	4612	.154E-03	.153E-02
67	3.0	45.0	0.0	5411	.652E-03	5101	.766E-03	4745	.159E-03	.158E-02
68	3.0	0.0	0.0	4682	.555E-03	4372	.653E-03	4075	.136E-03	.134E-02
69	3.0	-45.0	0.0	3575	.408E-03	3232	.478E-03	3033	.101E-03	.986E-03
70	3.0	-90.0	0.0	2582	.276E-03	2206	.320E-03	2077	.682E-04	.664E-03
75	3.3	90.0	0.0	5137	.615E-03	4814	.721E-03	4477	.150E-03	.149E-02
76	3.3	45.0	0.0	5064	.606E-03	4729	.708E-03	4393	.147E-03	.146E-02
77	3.3	0.0	0.0	4350	.511E-03	4046	.603E-03	3767	.126E-03	.124E-02
78	3.3	-45.0	0.0	3429	.388E-03	3080	.455E-03	2865	.950E-04	.938E-03
79	3.3	-90.0	0.0	2470	.261E-03	2104	.304E-03	1970	.648E-04	.630E-03
85	3.6	45.0	0.0	4817	.573E-03	4508	.674E-03	4179	.140E-03	.139E-02
86	3.6	0.0	0.0	3919	.454E-03	3570	.533E-03	3351	.112E-03	.110E-02
87	3.6	-45.0	0.0	3142	.350E-03	2783	.409E-03	2601	.860E-04	.845E-03
95	3.9	0.0	0.0	3902	.451E-03	3577	.531E-03	3314	.110E-03	.109E-02

RUN # 218

473FT,TEST NO. FB475,
100%,IN,BLE218::17,250

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.37 M/S	15.45 M/S	1.37 M/S	15.45 M/S		
EXIT VEL.	1.81 M/S	12.98 M/S	1.84 M/S	20.32 M/S		
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.22E-03M3/S	.29E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.70E+03		.40E+03			
CALIBRATION FACTOR	.41E-02		.22E-02			
SO2 FLUX		.050E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
17	1.2	0.0	0.0	1527	.114E-03	1328	.130E-03			.252E-03
24	1.5	0.0	0.0	1958	.161E-03	1705	.193E-03			.354E-03
30	1.8	30.0	0.0	2237	.192E-03	2016	.240E-03			.436E-03
31	1.8	0.0	0.0	1760	.135E-03	1483	.161E-03			.296E-03
32	1.8	-30.0	0.0	1809	.152E-03	1646	.185E-03			.337E-03
38	2.1	30.0	0.0	2572	.240E-03	2377	.293E-03			.534E-03
39	2.1	0.0	0.0	2367	.213E-03	2144	.259E-03			.472E-03
40	2.1	-30.0	0.0	2090	.178E-03	1840	.217E-03			.394E-03
48	2.4	0.0	0.0	2511	.232E-03	2316	.284E-03			.516E-03
49	2.4	-30.0	0.0	2142	.184E-03	1898	.222E-03			.406E-03
56	2.7	60.0	0.0	2649	.249E-03	2453	.305E-03			.554E-03
57	2.7	30.0	0.0	2800	.269E-03	2604	.327E-03			.596E-03
58	2.7	0.0	0.0	2676	.253E-03	2479	.309E-03			.561E-03
60	2.7	-60.0	0.0	1727	.140E-03	1540	.169E-03			.309E-03
66	3.0	90.0	0.0	2362	.212E-03	2156	.260E-03			.473E-03
67	3.0	45.0	0.0	2779	.266E-03	2581	.324E-03			.589E-03
68	3.0	0.0	0.0	2716	.258E-03	2521	.315E-03			.572E-03
69	3.0	-45.0	0.0	2254	.199E-03	2009	.239E-03			.437E-03
70	3.0	-90.0	0.0	1651	.121E-03	1397	.148E-03			.269E-03
75	3.3	90.0	0.0	2444	.223E-03	2237	.272E-03			.495E-03
76	3.3	45.0	0.0	2809	.270E-03	2602	.327E-03			.596E-03
77	3.3	0.0	0.0	2691	.255E-03	2491	.310E-03			.565E-03
78	3.3	-45.0	0.0	2212	.193E-03	1761	.232E-03			.425E-03
79	3.3	-90.0	0.0	1765	.136E-03	1476	.162E-03			.298E-03
84	3.6	90.0	0.0	2509	.231E-03	2300	.283E-03			.514E-03
85	3.6	45.0	0.0	2770	.265E-03	2561	.321E-03			.585E-03
86	3.6	0.0	0.0	2557	.237E-03	2345	.289E-03			.526E-03
87	3.6	-45.0	0.0	2242	.197E-03	1980	.234E-03			.431E-03
88	3.6	-90.0	0.0	1852	.147E-03	1585	.176E-03			.323E-03
93	3.9	90.0	0.0	2485	.228E-03	2272	.278E-03			.506E-03
94	3.9	45.0	0.0	2815	.271E-03	2609	.328E-03			.598E-03
95	3.9	0.0	0.0	2632	.247E-03	2403	.297E-03			.544E-03
96	3.9	-45.0	0.0	2262	.200E-03	2016	.240E-03			.439E-03
102	4.2	90.0	0.0	2540	.235E-03	2325	.288E-03			.522E-03
103	4.2	45.0	0.0	2861	.276E-03	2660	.335E-03			.612E-03
104	4.2	0.0	0.0	2644	.249E-03	2401	.297E-03			.545E-03
105	4.2	-45.0	0.0	2307	.205E-03	2045	.244E-03			.449E-03
106	4.2	-90.0	0.0	1924	.165E-03	1717	.195E-03			.361E-03
112	4.5	45.0	0.0	2831	.273E-03	2627	.330E-03			.603E-03
113	4.5	0.0	0.0	2718	.258E-03	2477	.308E-03			.566E-03
114	4.5	-45.0	0.0	2360	.212E-03	2093	.251E-03			.463E-03
122	4.8	0.0	0.0	2685	.254E-03	2416	.299E-03			.553E-03

RUN # 217

473FT,TEST NO. FB475,
100%,IN,BLE219::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S		
EXIT VEL.	1.61 M/S	17.78 M/S	1.84 M/S	20.32 M/S		
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.22E-03M3/S	.22E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.64E+03		.35E+03			
CALIBRATION FACTOR	.41E-02		.22E 02			
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M		
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
17	1.2	0.0	0.0	1241	.167E-03	1801	.216E-03			.383E-03
24	1.5	0.0	0.0	2274	.209E-03	2160	.229E-03			.479E-03
31	1.8	0.0	0.0	2156	.191E-03	2030	.250E-03			.444E-03
38	2.1	30.0	0.0	2532	.242E-03	2456	.313E-03			.556E-03
39	2.1	0.0	0.0	2571	.247E-03	2403	.319E-03			.566E-03
40	2.1	-30.0	0.0	2460	.233E-03	2332	.295E-03			.528E-03
47	2.4	30.0	0.0	2615	.253E-03	2550	.327E-03			.580E-03
48	2.4	0.0	0.0	2660	.257E-03	2566	.330E-03			.589E-03
49	2.4	-30.0	0.0	2434	.230E-03	2282	.287E-03			.517E-03
56	2.7	60.0	0.0	2543	.244E-03	2463	.314E-03			.558E-03
57	2.7	30.0	0.0	2676	.261E-03	2616	.337E-03			.598E-03
58	2.7	0.0	0.0	2644	.257E-03	2536	.325E-03			.582E-03
59	2.7	-30.0	0.0	2292	.212E-03	2133	.265E-03			.477E-03
60	2.7	-60.0	0.0	2010	.176E-03	1824	.219E-03			.395E-03
66	3.0	90.0	0.0	2129	.200E-03	2044	.255E-03			.455E-03
67	3.0	45.0	0.0	2618	.253E-03	2536	.325E-03			.579E-03
68	3.0	0.0	0.0	2649	.257E-03	2536	.325E-03			.583E-03
69	3.0	-45.0	0.0	2304	.213E-03	2130	.265E-03			.478E-03
70	3.0	-90.0	0.0	1736	.140E-03	1515	.174E-03			.314E-03
76	3.3	45.0	0.0	2645	.257E-03	2537	.324E-03			.583E-03
77	3.3	0.0	0.0	2595	.251E-03	2461	.314E-03			.565E-03
78	3.3	-45.0	0.0	2261	.208E-03	2066	.255E-03			.463E-03
84	3.6	90.0	0.0	2296	.212E-03	2160	.269E-03			.482E-03
85	3.6	45.0	0.0	2593	.250E-03	2461	.314E-03			.564E-03
86	3.6	0.0	0.0	2538	.243E-03	2372	.304E-03			.548E-03
87	3.6	-45.0	0.0	2228	.203E-03	2018	.248E-03			.452E-03
88	3.6	-90.0	0.0	1772	.145E-03	1526	.175E-03			.320E-03
93	3.9	90.0	0.0	2269	.209E-03	2110	.262E-03			.471E-03
95	3.9	0.0	0.0	2580	.247E-03	2411	.307E-03			.555E-03
96	3.9	-45.0	0.0	2210	.201E-03	1905	.243E-03			.445E-03
97	3.9	-90.0	0.0	1825	.152E-03	1567	.181E-03			.333E-03
102	4.2	90.0	0.0	2305	.213E-03	2132	.265E-03			.479E-03
103	4.2	45.0	0.0	2638	.254E-03	2471	.318E-03			.572E-03
104	4.2	0.0	0.0	2558	.246E-03	2370	.301E-03			.546E-03
105	4.2	-45.0	0.0	2242	.205E-03	2015	.248E-03			.453E-03
106	4.2	-90.0	0.0	1872	.158E-03	1607	.187E-03			.345E-03
111	4.5	90.0	0.0	2276	.212E-03	2125	.264E-03			.476E-03
112	4.5	45.0	0.0	2589	.250E-03	2426	.309E-03			.559E-03
113	4.5	0.0	0.0	2594	.250E-03	2407	.306E-03			.556E-03
114	4.5	-45.0	0.0	2257	.207E-03	2010	.247E-03			.454E-03
115	4.5	-90.0	0.0	1935	.166E-03	1664	.196E-03			.362E-03
121	4.8	45.0	0.0	2508	.239E-03	2328	.294E-03			.534E-03
123	4.8	-45.0	0.0	2249	.206E-03	2006	.247E-03			.453E-03

RUN # 220

473FT,TEST NO. FB475,
100%,IN,BLE220:117,290

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S		
EXIT VEL.	1.01 M/S	19.98 M/S	1.04 M/S	20.39 M/S		
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.64E+03		.20E+03			
CALIBRATION FACTOR	.41E-02		.22E-02			
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
17	1.2	0.0	0.0	1447	.103E-03	949	.999E-04			.203E-03
30	1.8	30.0	0.0	1773	.145E-03	1242	.143E-03			.288E-03
31	1.8	0.0	0.0	1617	.125E-03	1074	.118E-03			.243E-03
32	1.8	-30.0	0.0	1866	.157E-03	1308	.153E-03			.310E-03
38	2.1	30.0	0.0	2176	.197E-03	1573	.193E-03			.389E-03
39	2.1	0.0	0.0	2210	.201E-03	1500	.194E-03			.395E-03
40	2.1	-30.0	0.0	2051	.181E-03	1453	.175E-03			.355E-03
48	2.4	0.0	0.0	2346	.218E-03	1705	.212E-03			.431E-03
49	2.4	-30.0	0.0	2091	.186E-03	1480	.179E-03			.364E-03
56	2.7	60.0	0.0	2263	.208E-03	1656	.205E-03			.413E-03
57	2.7	30.0	0.0	2412	.227E-03	1701	.223E-03			.450E-03
58	2.7	0.0	0.0	2430	.229E-03	1702	.224E-03			.453E-03
59	2.7	-30.0	0.0	1524	.113E-03	996	.107E-03			.220E-03
60	2.7	-60.0	0.0	1757	.143E-03	1209	.139E-03			.281E-03
66	3.0	90.0	0.0	1953	.168E-03	1424	.170E-03			.338E-03
67	3.0	45.0	0.0	2424	.228E-03	1802	.227E-03			.455E-03
68	3.0	0.0	0.0	2456	.232E-03	1816	.229E-03			.461E-03
69	3.0	-45.0	0.0	2110	.189E-03	1534	.187E-03			.376E-03
70	3.0	-90.0	0.0	1604	.123E-03	1078	.119E-03			.242E-03
76	3.3	45.0	0.0	2500	.239E-03	1875	.237E-03			.477E-03
77	3.3	0.0	0.0	2466	.234E-03	1851	.234E-03			.468E-03
78	3.3	-45.0	0.0	2137	.192E-03	1572	.192E-03			.384E-03
79	3.3	-90.0	0.0	1683	.133E-03	1152	.130E-03			.263E-03
84	3.6	90.0	0.0	2158	.194E-03	1606	.197E-03			.392E-03
85	3.6	45.0	0.0	2537	.243E-03	1921	.244E-03			.487E-03
86	3.6	0.0	0.0	2502	.238E-03	1899	.241E-03			.479E-03
87	3.6	-45.0	0.0	2149	.193E-03	1502	.194E-03			.387E-03
88	3.6	-90.0	0.0	1718	.138E-03	1183	.135E-03			.273E-03
93	3.9	90.0	0.0	2221	.202E-03	1662	.206E-03			.408E-03
94	3.9	45.0	0.0	2602	.251E-03	1997	.256E-03			.507E-03
95	3.9	0.0	0.0	2545	.244E-03	1952	.249E-03			.493E-03
96	3.9	-45.0	0.0	2192	.199E-03	1619	.199E-03			.398E-03
102	4.2	90.0	0.0	2289	.211E-03	1741	.218E-03			.429E-03
103	4.2	45.0	0.0	2578	.248E-03	2001	.256E-03			.504E-03
104	4.2	0.0	0.0	2544	.244E-03	1954	.249E-03			.493E-03
105	4.2	-45.0	0.0	2246	.206E-03	1685	.209E-03			.415E-03
106	4.2	-90.0	0.0	1853	.155E-03	1319	.155E-03			.310E-03
112	4.5	45.0	0.0	2555	.245E-03	1972	.252E-03			.497E-03
113	4.5	0.0	0.0	2541	.243E-03	1961	.250E-03			.494E-03
114	4.5	-45.0	0.0	2254	.207E-03	1688	.210E-03			.416E-03
122	4.8	0.0	0.0	2472	.235E-03	1899	.241E-03			.476E-03

RUN # 221

305FT, TEST NO. FD175; 100%,IN,BLE221;;17,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.37 M/S	15.45 M/S	1.37 M/S	15.45 M/S	1.37 M/S	15.45 M/S
EXIT VEL.	1.01 M/S	19.90 M/S	1.04 M/S	20.39 M/S	1.02 M/S	20.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.45E+03		.21E+02		.42E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.10E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M	40.01 CM	144.03 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	511	.767E-05	136	.701E-05	252	.722E-05	.219E-04
2	2.7	225.0	0.0	524	.942E-05	160	.100E-04	306	.900E-05	.292E-04
3	2.7	210.0	0.0	547	.125E-04	175	.131E-04	355	.100E-04	.364E-04
4	2.7	195.0	0.0	588	.180E-04	213	.170E-04	400	.153E-04	.524E-04
5	2.7	180.0	0.0	628	.254E-04	248	.215E-04	584	.187E-04	.666E-04
6	2.7	165.0	0.0	756	.406E-04	370	.435E-04	974	.321E-04	.116E-03
7	2.7	150.0	0.0	707	.330E-04	316	.381E-04	845	.276E-04	.987E-04
8	2.7	120.0	0.0	701	.440E-04	301	.452E-04	1073	.355E-04	.125E-03
9	2.7	105.0	0.0	822	.495E-04	427	.524E-04	1222	.404E-04	.142E-03
10	2.7	90.0	0.0	841	.547E-04	450	.572E-04	1347	.442E-04	.157E-03
11	2.7	75.0	0.0	913	.617E-04	504	.644E-04	1502	.505E-04	.177E-03
12	2.7	60.0	0.0	926	.635E-04	515	.661E-04	1526	.535E-04	.188E-03
13	2.7	45.0	0.0	950	.667E-04	541	.701E-04	1601	.564E-04	.198E-03
14	2.7	30.0	0.0	943	.523E-04	430	.541E-04	1364	.455E-04	.152E-03
15	2.7	15.0	0.0	935	.647E-04	526	.678E-04	1615	.541E-04	.187E-03
16	2.7	0.0	0.0	911	.615E-04	500	.650E-04	1573	.527E-04	.179E-03
17	2.7	-15.0	0.0	852	.535E-04	446	.583E-04	1435	.476E-04	.166E-03
18	2.7	-30.0	0.0	814	.484E-04	417	.508E-04	1230	.411E-04	.140E-03
19	2.7	-45.0	0.0	772	.428E-04	388	.463E-04	1095	.362E-04	.125E-03
20	2.7	-60.0	0.0	740	.385E-04	343	.393E-04	996	.328E-04	.111E-03
21	2.7	-75.0	0.0	614	.215E-04	237	.220E-04	561	.172E-04	.621E-04
22	2.7	-90.0	0.0	567	.152E-04	191	.156E-04	442	.138E-04	.445E-04
23	2.7	-120.0	0.0	557	.152E-04	179	.137E-04	414	.128E-04	.417E-04
24	2.7	-135.0	0.0	554	.135E-04	187	.150E-04	407	.126E-04	.410E-04
25	2.7	-150.0	0.0	517	.917E-05	140	.764E-05	271	.788E-05	.240E-04
26	2.7	-165.0	0.0	511	.767E-05	143	.810E-05	259	.746E-05	.232E-04
27	2.7	-175.0	0.0	479	.336E-05	112	.327E-05	160	.406E-05	.107E-04
28	2.7	-210.0	0.0	479	.336E-05	112	.327E-05	120	.260E-05	.732E-05
29	2.7	-225.0	0.0	472	.242E-05	110	.421E-05	133	.313E-05	.976E-05
30	2.7	-240.0	0.0	463	.121E-05	117	.405E-05	60	.619E-06	.508E-05

RUN # 222

475FT,TEST NO. FD475
100%,IN,DLE222::17,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.39 M/S	15.45 M/S	1.39 M/S	15.45 M/S		
EXIT VEL.	1.81 M/S	19.28 M/S	1.84 M/S	20.32 M/S		
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.22E-03M3/S	.29E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.57E+03		.25E+03			
CALIBRATION FACTOR	.41E-02		.22E-02			
SO2 FLUX		.050E+03 (GM/S)		.105E+04 (GM/S)		
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	721	.176E-04	346	.137E 04			.333E-04
2	2.7	225.0	0.0	641	.119E-04	311	.846E 05			.204E-04
3	2.7	210.0	0.0	815	.317E-04	405	.224E-04			.541E-04
4	2.7	195.0	0.0	933	.468E-04	485	.343E-04			.811E-04
5	2.7	180.0	0.0	1013	.570E-04	525	.402E-04			.973E-04
6	2.7	165.0	0.0	1093	.673E-04	572	.472E-04			.114E-03
7	2.7	150.0	0.0	1239	.860E-04	652	.521E-04			.145E-03
8	2.7	135.0	0.0	1323	.967E-04	704	.671E-04			.164E-03
9	2.7	120.0	0.0	1218	.833E-04	812	.822E 04			.166E-03
10	2.7	105.0	0.0	1543	.125E 03	837	.862E 04			.212E-03
11	2.7	90.0	0.0	1529	.123E-03	818	.838E 04			.207E-03
12	2.7	75.0	0.0	1754	.152E 03	949	.103E 03			.255E-03
13	2.7	60.0	0.0	1871	.167E-03	1015	.113E 03			.280E-03
14	2.7	45.0	0.0	1889	.169E 03	1021	.114E 03			.283E-03
15	2.7	30.0	0.0	1903	.171E 03	1026	.115E-03			.286E-03
16	2.7	15.0	0.0	1821	.161E 03	977	.107E 03			.268E-03
17	2.7	0.0	0.0	1747	.151E 03	920	.100E 03			.251E-03
18	2.7	-15.0	0.0	1603	.133E 03	842	.873E-04			.220E-03
19	2.7	-30.0	0.0	1538	.124E 03	830	.855E 04			.210E-03
20	2.7	-45.0	0.0	1404	.107E 03	757	.747E 04			.182E-03
21	2.7	-60.0	0.0	1336	.984E-04	733	.711E-04			.170E-03
22	2.7	-75.0	0.0	1197	.804E 04	655	.595E-04			.140E-03
23	2.7	-90.0	0.0	1110	.685E-04	605	.521E-04			.122E-03
24	2.7	-105.0	0.0	1001	.555E 04	550	.440E 04			.994E-04
25	2.7	-120.0	0.0	902	.429E-04	480	.334E-04			.764E-04
26	2.7	-135.0	0.0	803	.301E 04	412	.245E-04			.546E-04
27	2.7	-150.0	0.0	735	.214E-04	370	.172E 04			.386E-04
28	2.7	-165.0	0.0	660	.120E-04	327	.108E-04			.237E-04
29	2.7	-180.0	0.0	515	.000E+00	215	.000E+00			.000E+00
30	2.7	-195.0	0.0	592	.300E 05	278	.356E 05			.664E-05
31	2.7	-210.0	0.0	572	.513E-06	273	.202E-05			.333E-05
32	2.7	-225.0	0.0	556	.000E+00	262	.119E-05			.119E-05
33	2.7	-240.0	0.0	547	.000E+00	251	.000E+00			.000E+00

RUN # 223

305FT, TEST NO. MA305, 40%,IN,BLE223::17,198

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.94 M/S	9.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.52E+03		.00E+02		.00E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	608	.137E-04	203	.170E-04	132	.987E-06	.317E-04
5	.6	15.0	0.0	1423	.134E-03	1013	.129E-03	254	.166E-04	.279E-03
6	.6	0.0	0.0	937	.622E-04	520	.608E-04	493	.784E-05	.131E-03
7	.6	-15.0	0.0	1130	.918E-04	738	.910E-04	609	.116E-04	.194E-03
10	.9	15.0	0.0	2555	.301E-03	2156	.287E-03	2140	.393E-04	.627E-03
11	.9	0.0	0.0	2337	.269E-03	1967	.261E-03	1929	.351E-04	.565E-03
12	.9	-15.0	0.0	1961	.213E-03	1571	.206E-03	1562	.281E-04	.447E-03
15	1.2	30.0	0.0	3477	.437E-03	3101	.418E-03	3082	.570E-04	.911E-03
16	1.2	15.0	0.0	3319	.413E-03	2927	.394E-03	2929	.541E-04	.861E-03
17	1.2	0.0	0.0	2961	.361E-03	2589	.347E-03	2580	.475E-04	.755E-03
18	1.2	-15.0	0.0	2532	.297E-03	2163	.288E-03	2166	.396E-04	.625E-03
19	1.2	-30.0	0.0	2161	.243E-03	1807	.239E-03	1787	.324E-04	.514E-03
22	1.5	60.0	0.0	3752	.477E-03	3404	.460E-03	3358	.622E-04	.999E-03
23	1.5	30.0	0.0	3846	.491E-03	3483	.471E-03	3482	.646E-04	.103E-02
24	1.5	0.0	0.0	3347	.417E-03	2979	.401E-03	2983	.551E-04	.873E-03
25	1.5	-30.0	0.0	2369	.273E-03	2011	.267E-03	1990	.363E-04	.577E-03
26	1.5	-60.0	0.0	1698	.174E-03	1307	.170E-03	1323	.236E-04	.368E-03
30	1.8	30.0	0.0	3974	.510E-03	3605	.487E-03	3605	.669E-04	.106E-02
31	1.8	0.0	0.0	3391	.424E-03	3040	.409E-03	3038	.562E-04	.889E-03
32	1.8	-30.0	0.0	2551	.300E-03	2234	.298E-03	2109	.400E-04	.638E-03
33	1.8	-60.0	0.0	1916	.207E-03	1553	.204E-03	1522	.274E-04	.438E-03
37	2.1	60.0	0.0	4066	.523E-03	3764	.509E-03	3684	.684E-04	.110E-02
38	2.1	30.0	0.0	3901	.499E-03	3569	.482E-03	3539	.657E-04	.105E-02
39	2.1	0.0	0.0	3025	.370E-03	2670	.358E-03	2654	.489E-04	.777E-03
40	2.1	-30.0	0.0	2631	.312E-03	2273	.303E-03	2273	.416E-04	.657E-03
41	2.1	-60.0	0.0	1949	.211E-03	1579	.207E-03	1565	.282E-04	.447E-03
46	2.4	60.0	0.0	3895	.498E-03	3597	.486E-03	3519	.653E-04	.105E-02
47	2.4	30.0	0.0	3739	.475E-03	3422	.462E-03	3393	.629E-04	.100E-02
48	2.4	0.0	0.0	3189	.394E-03	2838	.381E-03	2797	.516E-04	.827E-03
49	2.4	-30.0	0.0	2530	.297E-03	2187	.291E-03	2152	.393E-04	.628E-03
50	2.4	-60.0	0.0	1938	.210E-03	1625	.214E-03	1553	.280E-04	.451E-03
56	2.7	60.0	0.0	3729	.474E-03	3418	.462E-03	3363	.623E-04	.998E-03
57	2.7	30.0	0.0	3633	.460E-03	3288	.444E-03	3254	.603E-04	.963E-03
58	2.7	0.0	0.0	3099	.381E-03	2785	.374E-03	2735	.504E-04	.805E-03
59	2.7	-30.0	0.0	2557	.301E-03	2258	.301E-03	2158	.394E-04	.642E-03
60	2.7	-60.0	0.0	1974	.215E-03	1633	.215E-03	1598	.288E-04	.459E-03
66	3.0	90.0	0.0	3443	.432E-03	3088	.416E-03	3032	.560E-04	.904E-03
67	3.0	45.0	0.0	3614	.457E-03	3329	.449E-03	3224	.597E-04	.966E-03
68	3.0	0.0	0.0	3011	.368E-03	2754	.370E-03	2650	.488E-04	.786E-03
69	3.0	-45.0	0.0	2222	.252E-03	1894	.251E-03	1855	.337E-04	.536E-03
70	3.0	-90.0	0.0	1626	.164E-03	1290	.167E-03	1239	.220E-04	.353E-03
77	3.3	0.0	0.0	2866	.347E-03	2529	.339E-03	2463	.452E-04	.730E-03
78	3.3	-45.0	0.0	2196	.248E-03	1857	.246E-03	1801	.327E-04	.526E-03
86	3.6	0.0	0.0	2746	.329E-03	2438	.326E-03	2329	.427E-04	.698E-03

RUN # 224

STACK #1 | STACK #2 | STACK #3

305FT, TEST NO. MA385, 40%,IN,BLE224::17,220

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.90 M/S	1.42 M/S	14.90 M/S	1.42 M/S	14.90 M/S
EXIT VEL.	.00 M/S	0.77 M/S	.02 M/S	0.73 M/S	.24 M/S	2.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.52E+05		.32E+05	
BACKGROUND	.49E+03		.50E+02		.50E+02	
CALIBRATION FACTOR	.43E-02		.23E 02		.16E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	541	.754E-05	130	.113E-04	51	.124E 07	.189E-04
4	.6	0.0	0.0	1121	.950E-04	766	.101E 03	052	.156E-04	.212E-03
10	.9	15.0	0.0	2544	.309E-03	2417	.335E-03	2682	.511E-04	.695E-03
11	.9	0.0	0.0	2307	.206E-03	2227	.300D-03	2401	.472E-04	.641E-03
12	.9	-15.0	0.0	2038	.233E-03	1021	.250E-03	2018	.302E-04	.522E-03
15	1.2	30.0	0.0	3252	.417E 03	3126	.435E-03	3352	.641E-04	.916E-03
16	1.2	15.0	0.0	3276	.420E-03	3175	.442E 03	3438	.650E-04	.928E-03
17	1.2	0.0	0.0	2981	.375E 03	2843	.395E-03	3060	.586E-04	.829E-03
18	1.2	-15.0	0.0	2672	.329E-03	2480	.344E-03	2678	.510E-04	.723E-03
19	1.2	-30.0	0.0	2393	.287D 03	2100	.302E 03	2365	.449E-04	.634E-03
22	1.5	60.0	0.0	3262	.418E-03	3160	.440E-03	3339	.638E-04	.921E-03
23	1.5	30.0	0.0	3561	.463E-03	3470	.484E 03	3704	.709E-04	.102E-02
24	1.5	0.0	0.0	3325	.427E-03	3198	.445E-03	3397	.650E-04	.937E-03
25	1.5	-30.0	0.0	2617	.320E 03	2410	.334E 03	2553	.486E-04	.703E-03
26	1.5	-60.0	0.0	1845	.204E-03	1527	.209E-03	1613	.303E-04	.443E-03
29	1.8	60.0	0.0	3488	.452E-03	3371	.470E 03	3545	.670E-04	.989E-03
30	1.8	30.0	0.0	3746	.494E-03	3672	.512E 03	3859	.739E-04	.108E-02
31	1.8	0.0	0.0	3535	.459E-03	3394	.473E-03	3575	.684E-04	.100E-02
32	1.8	-30.0	0.0	2930	.360E-03	2728	.379E 03	2848	.543E-04	.801E-03
33	1.8	-60.0	0.0	2254	.266E-03	1903	.273E 03	2067	.392E-04	.570E-03
36	2.1	90.0	0.0	2519	.306E-03	2271	.314E 03	2352	.447E-04	.664E-03
37	2.1	60.0	0.0	3441	.445E 03	3318	.462E 03	3429	.656E-04	.972E-03
38	2.1	30.0	0.0	3743	.490E-03	3622	.505E-03	3762	.721E-04	.107E-02
39	2.1	0.0	0.0	3191	.407E 03	2983	.415D 03	3092	.591E-04	.881E-03
40	2.1	-30.0	0.0	3004	.379E-03	2778	.386E-03	2888	.551E-04	.820E-03
41	2.1	-60.0	0.0	2376	.284E 03	2091	.289E 03	2173	.412E-04	.614E-03
42	2.1	-90.0	0.0	1741	.188E-03	1400	.191E 03	1461	.274E-04	.407E-03
46	2.4	60.0	0.0	3400	.432E 03	3262	.454E 03	3322	.635E-04	.956E-03
47	2.4	30.0	0.0	3592	.467E-03	3452	.481E 03	3542	.678E-04	.102E-02
48	2.4	0.0	0.0	3418	.441E 03	3219	.440E-03	3300	.631E-04	.952E-03
49	2.4	-30.0	0.0	2850	.356E-03	2528	.360E 03	2649	.505E-04	.766E-03
50	2.4	-60.0	0.0	2405	.289E-03	2154	.299E-03	2158	.409E-04	.627E-03
56	2.7	60.0	0.0	3249	.416D 03	3092	.430D 03	3135	.599E-04	.906E-03
57	2.7	30.0	0.0	3490	.452E-03	3310	.461E-03	3370	.645E-04	.978E-03
58	2.7	0.0	0.0	3305	.424E-03	3093	.430E-03	3143	.600E-04	.915E-03
59	2.7	-30.0	0.0	2947	.370D 03	2722	.378D 03	2740	.522E-04	.800E-03
60	2.7	-60.0	0.0	2443	.294E-03	2166	.299E-03	2170	.415E-04	.635E-03
66	3.0	90.0	0.0	2670	.328E-03	2440	.338E-03	2490	.474E-04	.714E-03
67	3.0	45.0	0.0	3312	.425E-03	3134	.436D-03	3102	.600E-04	.922E-03
68	3.0	0.0	0.0	3238	.414E-03	3044	.423E-03	3093	.592E-04	.896E-03
69	3.0	-45.0	0.0	2701	.333E-03	2432	.337D-03	2454	.467E-04	.717E-03
70	3.0	-90.0	0.0	2060	.237E-03	1752	.241E-03	1758	.332E-04	.510E-03
76	3.3	45.0	0.0	3164	.403E-03	2957	.411E-03	2977	.568E-04	.871E-03
77	3.3	0.0	0.0	3012	.380E-03	2770	.385E-03	2003	.534E-04	.818E-03
78	3.3	-45.0	0.0	2689	.331E-03	2417	.335E-03	2438	.464E-04	.712E-03
86	3.6	0.0	0.0	3011	.380D 03	2777	.386D 03	2770	.528E-04	.818E-03

RUN # 225

385FT,TEST NO. MA385,
40%,IN,BLE225;;17,250

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.94 M/S	2.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.33E+05	
BACKGROUND	.46E+03		.31E+02		.41E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	532	.119E-04	169	.121E-04	0	.000E+00	.310E-04
6	.6	0.0	0.0	902	.772E-04	705	.932E-04	542	.951E-05	.180E-03
10	.9	15.0	0.0	2262	.266E-03	2207	.301E-03	1030	.340E-04	.601E-03
11	.9	0.0	0.0	2264	.266E-03	2208	.301E-03	1004	.335E-04	.601E-03
12	.9	-15.0	0.0	2212	.259E-03	2127	.290E-03	1757	.326E-04	.581E-03
15	1.2	30.0	0.0	2736	.336E-03	2728	.373E-03	2266	.422E-04	.751E-03
16	1.2	15.0	0.0	2822	.348E-03	2839	.388E-03	2373	.443E-04	.781E-03
17	1.2	0.0	0.0	2837	.351E-03	2832	.387E-03	2361	.440E-04	.782E-03
18	1.2	-15.0	0.0	2746	.337E-03	2728	.373E-03	2301	.429E-04	.753E-03
19	1.2	-30.0	0.0	2700	.330E-03	2661	.364E-03	2253	.420E-04	.736E-03
22	1.5	60.0	0.0	2580	.313E-03	2533	.346E-03	2126	.396E-04	.698E-03
23	1.5	30.0	0.0	3049	.382E-03	3060	.419E-03	2592	.484E-04	.849E-03
24	1.5	0.0	0.0	3158	.398E-03	3185	.436E-03	2706	.506E-04	.885E-03
25	1.5	-30.0	0.0	2844	.352E-03	2816	.385E-03	2395	.447E-04	.782E-03
26	1.5	-60.0	0.0	2277	.268E-03	2144	.292E-03	1850	.343E-04	.595E-03
29	1.8	60.0	0.0	2868	.355E-03	2815	.385E-03	2395	.447E-04	.785E-03
30	1.8	30.0	0.0	3298	.419E-03	3282	.450E-03	2837	.531E-04	.921E-03
31	1.8	0.0	0.0	3289	.417E-03	3281	.449E-03	2842	.532E-04	.920E-03
32	1.8	-30.0	0.0	3068	.385E-03	3040	.416E-03	2617	.489E-04	.850E-03
33	1.8	-60.0	0.0	2511	.303E-03	2374	.324E-03	2041	.383E-04	.665E-03
37	2.1	60.0	0.0	2986	.373E-03	2957	.405E-03	2535	.473E-04	.825E-03
39	2.1	0.0	0.0	3112	.391E-03	3020	.413E-03	2630	.493E-04	.854E-03
40	2.1	-30.0	0.0	3174	.400E-03	3099	.424E-03	2712	.507E-04	.875E-03
41	2.1	-60.0	0.0	2642	.322E-03	2474	.338E-03	2100	.406E-04	.700E-03
46	2.4	60.0	0.0	3055	.383E-03	3008	.412E-03	2618	.489E-04	.843E-03
47	2.4	30.0	0.0	3389	.432E-03	3313	.454E-03	2937	.550E-04	.941E-03
48	2.4	0.0	0.0	3390	.432E-03	3301	.452E-03	2942	.551E-04	.939E-03
49	2.4	-30.0	0.0	3092	.388E-03	2993	.410E-03	2646	.494E-04	.847E-03
50	2.4	-60.0	0.0	2633	.321E-03	2498	.341E-03	2121	.408E-04	.703E-03
56	2.7	60.0	0.0	2964	.369E-03	2862	.391E-03	2516	.470E-04	.800E-03
57	2.7	30.0	0.0	3319	.422E-03	3218	.441E-03	2874	.538E-04	.916E-03
58	2.7	0.0	0.0	3439	.439E-03	3342	.459E-03	2900	.559E-04	.954E-03
59	2.7	-30.0	0.0	3088	.388E-03	3005	.411E-03	2659	.497E-04	.849E-03
60	2.7	-60.0	0.0	2663	.325E-03	2488	.340E-03	2230	.416E-04	.706E-03
66	3.0	90.0	0.0	2412	.288E-03	2227	.304E-03	1965	.365E-04	.628E-03
67	3.0	45.0	0.0	3146	.396E-03	3044	.417E-03	2690	.504E-04	.863E-03
68	3.0	0.0	0.0	3322	.422E-03	3235	.443E-03	2886	.540E-04	.919E-03
69	3.0	-45.0	0.0	2871	.356E-03	2706	.370E-03	2441	.456E-04	.771E-03
70	3.0	-90.0	0.0	2122	.245E-03	1897	.258E-03	1697	.312E-04	.535E-03
76	3.3	45.0	0.0	2979	.372E-03	2825	.386E-03	2525	.472E-04	.805E-03
77	3.3	0.0	0.0	3240	.410E-03	3092	.423E-03	2803	.524E-04	.886E-03
78	3.3	-45.0	0.0	2814	.347E-03	2642	.361E-03	2401	.448E-04	.753E-03
86	3.6	0.0	0.0	3082	.387E-03	2931	.401E-03	2657	.497E-04	.837E-03

RUN # 226

STACK #1 STACK #2 STACK #3

305FT,TEST NO. MA385;
40%,IN,DLE226::17,270

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.24 M/S	2.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.56E+03		.15E+03		.15E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	810	.370E-04	441	.402E-04	323	.328E-05	.805E-04
6	.6	0.0	0.0	1456	.132E-03	1212	.147E-03	934	.147E-04	.294E-03
10	.9	15.0	0.0	3092	.373E-03	3152	.415E-03	2405	.443E-04	.833E-03
11	.9	0.0	0.0	3364	.413E-03	3438	.455E-03	2778	.499E-04	.918E-03
12	.9	-15.0	0.0	3349	.411E-03	3401	.450E-03	2771	.498E-04	.911E-03
15	1.2	30.0	0.0	3550	.441E-03	3672	.487E-03	2941	.530E-04	.981E-03
16	1.2	15.0	0.0	3749	.470E-03	3892	.517E-03	3153	.570E-04	.104E-02
17	1.2	0.0	0.0	3850	.485E-03	3950	.525E-03	3242	.590E-04	.107E-02
18	1.2	-15.0	0.0	3792	.477E-03	3906	.519E-03	3184	.576E-04	.105E-02
19	1.2	-30.0	0.0	3605	.442E-03	3656	.485E-03	3019	.545E-04	.988E-03
22	1.5	60.0	0.0	3406	.420E-03	3505	.464E-03	2821	.507E-04	.934E-03
23	1.5	30.0	0.0	3981	.504E-03	4114	.540E-03	3389	.615E-04	.111E-02
24	1.5	0.0	0.0	4124	.526E-03	4251	.567E-03	3520	.640E-04	.116E-02
25	1.5	-30.0	0.0	3565	.443E-03	3603	.477E-03	2992	.539E-04	.975E-03
26	1.5	-60.0	0.0	2855	.338E-03	2778	.363E-03	2335	.415E-04	.743E-03
30	1.8	30.0	0.0	4297	.551E-03	4421	.591E-03	3696	.673E-04	.121E-02
31	1.8	0.0	0.0	4229	.541E-03	4313	.576E-03	3620	.659E-04	.118E-02
32	1.8	-30.0	0.0	3725	.477E-03	3791	.503E-03	3167	.573E-04	.103E-02
33	1.8	-60.0	0.0	2980	.357E-03	2802	.378E-03	2429	.433E-04	.778E-03
36	2.1	90.0	0.0	2650	.309E-03	2543	.331E-03	2099	.370E-04	.677E-03
37	2.1	60.0	0.0	3655	.456E-03	3726	.494E-03	3096	.559E-04	.101E-02
38	2.1	30.0	0.0	4152	.530E-03	4217	.562E-03	3587	.652E-04	.116E-02
39	2.1	0.0	0.0	3730	.467E-03	3715	.493E-03	3136	.567E-04	.102E-02
40	2.1	-30.0	0.0	3805	.478E-03	3797	.504E-03	3244	.587E-04	.104E-02
41	2.1	-60.0	0.0	3020	.363E-03	2891	.379E-03	2471	.441E-04	.786E-03
42	2.1	-90.0	0.0	2346	.263E-03	2140	.275E-03	1853	.323E-04	.571E-03
46	2.4	60.0	0.0	3654	.456E-03	3716	.493E-03	3122	.564E-04	.101E-02
47	2.4	30.0	0.0	4026	.511E-03	4077	.543E-03	3449	.626E-04	.112E-02
48	2.4	0.0	0.0	4004	.508E-03	4002	.533E-03	3444	.625E-04	.110E-02
49	2.4	-30.0	0.0	3647	.455E-03	3601	.477E-03	3089	.550E-04	.980E-03
50	2.4	-60.0	0.0	2973	.356E-03	2878	.377E-03	2441	.435E-04	.777E-03
56	2.7	60.0	0.0	3606	.431E-03	3480	.460E-03	2951	.532E-04	.945E-03
57	2.7	30.0	0.0	3845	.484E-03	3830	.509E-03	3295	.597E-04	.105E-02
58	2.7	0.0	0.0	3895	.492E-03	3803	.516E-03	3356	.609E-04	.107E-02
59	2.7	-30.0	0.0	3509	.435E-03	3478	.460E-03	2964	.534E-04	.948E-03
60	2.7	-60.0	0.0	3014	.362E-03	2855	.374E-03	2471	.441E-04	.780E-03
66	3.0	90.0	0.0	2824	.334E-03	2622	.352E-03	2296	.407E-04	.726E-03
67	3.0	45.0	0.0	3568	.444E-03	3558	.471E-03	3042	.542E-04	.970E-03
68	3.0	0.0	0.0	3607	.449E-03	3617	.479E-03	3089	.558E-04	.985E-03
69	3.0	-45.0	0.0	3167	.394E-03	3047	.401E-03	2633	.471E-04	.832E-03
70	3.0	-90.0	0.0	2393	.270E-03	2192	.282E-03	1895	.331E-04	.586E-03
76	3.3	45.0	0.0	3395	.418E-03	3301	.436E-03	2859	.514E-04	.905E-03
77	3.3	0.0	0.0	3526	.437E-03	3425	.453E-03	2984	.538E-04	.944E-03
78	3.3	-45.0	0.0	3081	.372E-03	2954	.388E-03	2553	.456E-04	.805E-03
86	3.6	0.0	0.0	3369	.414E-03	3254	.429E-03	2844	.511E-04	.895E-03

RUN # 227

305FT, TEST NO. MA305
40%,IN,BLE227:17,290

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.94 M/S	2.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.40E+03		.10E+03		.90E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1502	.154E-03	1110	.132E-03	784	.174E-04	.303E-03
10	.9	15.0	0.0	1482	.151E-03	1097	.130E-03	1021	.181E-04	.299E-03
11	.9	0.0	0.0	1684	.182E-03	1272	.157E-03	1227	.221E-04	.361E-03
12	.9	-15.0	0.0	1739	.190E-03	1301	.159E-03	1250	.227E-04	.371E-03
15	1.2	30.0	0.0	1981	.211E-03	1527	.171E-03	1420	.258E-04	.428E-03
16	1.2	15.0	0.0	2128	.249E-03	1741	.224E-03	1672	.307E-04	.503E-03
17	1.2	0.0	0.0	2266	.269E-03	1876	.240E-03	1806	.333E-04	.543E-03
18	1.2	-15.0	0.0	2345	.281E-03	1930	.247E-03	1866	.345E-04	.563E-03
19	1.2	-30.0	0.0	2332	.279E-03	1873	.242E-03	1841	.340E-04	.556E-03
22	1.5	60.0	0.0	1768	.194E-03	1510	.180E-03	1357	.246E-04	.407E-03
24	1.5	0.0	0.0	2667	.330E-03	2331	.304E-03	2200	.410E-04	.675E-03
25	1.5	-30.0	0.0	2577	.316E-03	2103	.263E-03	2097	.390E-04	.630E-03
26	1.5	-60.0	0.0	2349	.282E-03	1971	.242E-03	1864	.344E-04	.558E-03
29	1.8	60.0	0.0	2137	.250E-03	1805	.241E-03	1732	.319E-04	.523E-03
30	1.8	30.0	0.0	2610	.321E-03	2342	.306E-03	2102	.406E-04	.668E-03
31	1.8	0.0	0.0	2904	.366E-03	2586	.340E-03	2443	.457E-04	.751E-03
32	1.8	-30.0	0.0	2870	.363E-03	2512	.330E-03	2402	.449E-04	.738E-03
33	1.8	-60.0	0.0	2503	.305E-03	2090	.270E-03	2012	.373E-04	.613E-03
38	2.1	30.0	0.0	2756	.343E-03	2401	.325E-03	2226	.420E-04	.711E-03
39	2.1	0.0	0.0	2731	.339E-03	2371	.310E-03	2332	.416E-04	.691E-03
40	2.1	-30.0	0.0	2980	.377E-03	2589	.341E-03	2470	.466E-04	.764E-03
41	2.1	-60.0	0.0	2626	.324E-03	2171	.284E-03	2128	.392E-04	.640E-03
42	2.1	-90.0	0.0	1813	.201E-03	1421	.175E-03	1324	.240E-04	.401E-03
46	2.4	60.0	0.0	2453	.270E-03	2254	.293E-03	2023	.375E-04	.628E-03
47	2.4	30.0	0.0	2942	.371E-03	2692	.355E-03	2504	.469E-04	.773E-03
48	2.4	0.0	0.0	3066	.390E-03	2753	.364E-03	2586	.485E-04	.802E-03
49	2.4	-30.0	0.0	2912	.367E-03	2544	.334E-03	2412	.451E-04	.746E-03
50	2.4	-60.0	0.0	2674	.331E-03	2320	.303E-03	2177	.405E-04	.674E-03
56	2.7	60.0	0.0	2490	.303E-03	2248	.292E-03	2054	.381E-04	.634E-03
57	2.7	30.0	0.0	2966	.375E-03	2708	.357E-03	2534	.474E-04	.786E-03
58	2.7	0.0	0.0	3110	.397E-03	2021	.373E-03	2660	.499E-04	.820E-03
59	2.7	-30.0	0.0	3000	.380E-03	2696	.356E-03	2527	.473E-04	.783E-03
60	2.7	-60.0	0.0	2671	.330E-03	2208	.290E-03	2107	.407E-04	.669E-03
66	3.0	90.0	0.0	1869	.210E-03	1504	.199E-03	1449	.264E-04	.434E-03
67	3.0	45.0	0.0	2752	.343E-03	2512	.331E-03	2312	.431E-04	.717E-03
68	3.0	0.0	0.0	3022	.383E-03	2763	.365E-03	2560	.481E-04	.797E-03
69	3.0	-45.0	0.0	2841	.356E-03	2498	.328E-03	2368	.442E-04	.728E-03
70	3.0	-90.0	0.0	2244	.266E-03	1845	.238E-03	1766	.325E-04	.537E-03
76	3.3	45.0	0.0	2664	.329E-03	2395	.313E-03	2222	.414E-04	.684E-03
77	3.3	0.0	0.0	2884	.363E-03	2576	.339E-03	2420	.452E-04	.747E-03
78	3.3	-45.0	0.0	2804	.350E-03	2450	.322E-03	2337	.436E-04	.716E-03
86	3.6	0.0	0.0	2870	.363E-03	2591	.341E-03	2466	.461E-04	.751E-03

RUN # 220

305FT,TEST NO. MA385,
40%,IN,BLE220::17:270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	.94 M/S	9.09 M/S	.94 M/S	9.09 M/S	.94 M/S	9.09 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.94 M/S	9.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.48E+03		.40E+02		.43E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	505	.324E-05	105	.700E-05	0	.000E+00	.117E-04
6	.6	0.0	0.0	571	.136E-04	319	.371E-04	0	.000E+00	.507E-04
10	.9	15.0	0.0	836	.522E-04	900	.129E-03	292	.460E-05	.186E-03
11	.9	0.0	0.0	838	.569E-04	1021	.143E-03	325	.530E-05	.205E-03
12	.9	-15.0	0.0	866	.566E-04	1056	.138E-03	316	.513E-05	.200E-03
15	1.2	30.0	0.0	940	.674E-04	1306	.172E-03	372	.610E-05	.246E-03
16	1.2	15.0	0.0	963	.700E-04	1357	.179E-03	402	.675E-05	.257E-03
17	1.2	0.0	0.0	989	.746E-04	1432	.189E-03	423	.714E-05	.271E-03
18	1.2	-15.0	0.0	996	.756E-04	1429	.189E-03	422	.712E-05	.272E-03
19	1.2	-30.0	0.0	959	.702E-04	1315	.173E-03	384	.641E-05	.250E-03
22	1.5	60.0	0.0	921	.647E-04	1254	.165E-03	364	.603E-05	.236E-03
23	1.5	30.0	0.0	1021	.772E-04	1524	.202E-03	436	.739E-05	.289E-03
24	1.5	0.0	0.0	1062	.852E-04	1644	.219E-03	465	.793E-05	.312E-03
25	1.5	-30.0	0.0	981	.734E-04	1401	.185E-03	418	.705E-05	.266E-03
26	1.5	-60.0	0.0	676	.289E-04	610	.769E-04	192	.280E-05	.109E-03
29	1.8	60.0	0.0	929	.658E-04	1233	.162E-03	370	.615E-05	.234E-03
30	1.8	30.0	0.0	1044	.826E-04	1566	.208E-03	473	.800E-05	.299E-03
31	1.8	0.0	0.0	1115	.930E-04	1763	.235E-03	524	.904E-05	.337E-03
32	1.8	-30.0	0.0	1036	.814E-04	1512	.200E-03	453	.771E-05	.290E-03
33	1.8	-60.0	0.0	899	.614E-04	1147	.150E-03	340	.596E-05	.218E-03
36	2.1	90.0	0.0	800	.470E-04	856	.111E-03	283	.451E-05	.162E-03
37	2.1	60.0	0.0	947	.684E-04	1270	.168E-03	403	.677E-05	.244E-03
38	2.1	30.0	0.0	1039	.819E-04	1524	.202E-03	460	.784E-05	.292E-03
39	2.1	0.0	0.0	1068	.861E-04	1602	.213E-03	495	.850E-05	.307E-03
40	2.1	-30.0	0.0	1057	.845E-04	1533	.203E-03	496	.851E-05	.296E-03
41	2.1	-60.0	0.0	943	.679E-04	1100	.155E-03	391	.654E-05	.229E-03
42	2.1	-90.0	0.0	806	.479E-04	847	.107E-03	301	.485E-05	.162E-03
46	2.4	60.0	0.0	996	.756E-04	1361	.180E-03	467	.797E-05	.263E-03
47	2.4	30.0	0.0	1031	.807E-04	1464	.194E-03	494	.848E-05	.283E-03
48	2.4	0.0	0.0	1075	.871E-04	1561	.207E-03	527	.910E-05	.303E-03
49	2.4	-30.0	0.0	1026	.800E-04	1402	.185E-03	490	.840E-05	.274E-03
50	2.4	-60.0	0.0	948	.686E-04	1194	.157E-03	440	.746E-05	.233E-03
56	2.7	60.0	0.0	964	.709E-04	1246	.164E-03	450	.765E-05	.243E-03
57	2.7	30.0	0.0	1055	.842E-04	1477	.196E-03	513	.883E-05	.289E-03
58	2.7	0.0	0.0	1077	.874E-04	1517	.201E-03	535	.925E-05	.298E-03
59	2.7	-30.0	0.0	1037	.816E-04	1409	.186E-03	498	.855E-05	.276E-03
60	2.7	-60.0	0.0	956	.698E-04	1148	.151E-03	442	.750E-05	.228E-03
66	3.0	90.0	0.0	841	.530E-04	928	.120E-03	343	.564E-05	.179E-03
67	3.0	45.0	0.0	1001	.763E-04	1335	.176E-03	479	.819E-05	.261E-03
68	3.0	0.0	0.0	1076	.873E-04	1473	.195E-03	549	.951E-05	.292E-03
69	3.0	-45.0	0.0	1018	.788E-04	1255	.165E-03	512	.881E-05	.253E-03
70	3.0	-90.0	0.0	871	.574E-04	922	.120E-03	385	.643E-05	.183E-03
76	3.3	45.0	0.0	1004	.768E-04	1266	.167E-03	491	.842E-05	.252E-03
77	3.3	0.0	0.0	1063	.854E-04	1325	.175E-03	539	.932E-05	.270E-03
78	3.3	-45.0	0.0	1031	.807E-04	1210	.160E-03	530	.915E-05	.250E-03
86	3.6	0.0	0.0	1114	.928E-04	1390	.184E-03	603	.105E-04	.287E-03

RUN # 229

STACK #1 STACK #2 STACK #3

385FT,TEST NO. MA385,
40%,IN,BLE229::17,270

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.16 M/S	12.36 M/S	1.16 M/S	12.36 M/S	1.16 M/S	12.36 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.24 M/S	2.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.50E+03		.14E+03		.23E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.36 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	548	.664E-05	160	.379E-05	0	.000E+00	.104E-04
6	.6	0.0	0.0	956	.656E-04	835	.242E-04	410	.720E-05	.167E-03
10	.9	15.0	0.0	1917	.204E-03	2300	.293E-03	1212	.221E-04	.519E-03
11	.9	0.0	0.0	1890	.200E-03	2295	.292E-03	1186	.216E-04	.514E-03
15	1.2	30.0	0.0	2202	.257E-03	2032	.345E-03	1547	.283E-04	.650E-03
16	1.2	15.0	0.0	2346	.266E-03	2901	.374E-03	1600	.293E-04	.670E-03
17	1.2	0.0	0.0	2308	.261E-03	2841	.366E-03	1579	.292E-04	.656E-03
18	1.2	-15.0	0.0	2206	.246E-03	2673	.343E-03	1489	.273E-04	.617E-03
19	1.2	-30.0	0.0	1951	.209E-03	2313	.294E-03	1290	.234E-04	.527E-03
22	1.5	60.0	0.0	2240	.251E-03	2734	.351E-03	1539	.282E-04	.631E-03
23	1.5	30.0	0.0	2445	.281E-03	3014	.389E-03	1707	.313E-04	.701E-03
24	1.5	0.0	0.0	2446	.281E-03	2977	.384E-03	1720	.316E-04	.697E-03
25	1.5	-30.0	0.0	1948	.209E-03	2272	.289E-03	1315	.240E-04	.522E-03
26	1.5	-60.0	0.0	534	.462E-05	149	.122E-05	0	.000E+00	.584E-05
29	1.8	60.0	0.0	2376	.271E-03	2031	.365E-03	1605	.309E-04	.666E-03
30	1.8	30.0	0.0	2534	.293E-03	3055	.398E-03	1811	.333E-04	.722E-03
31	1.8	0.0	0.0	2564	.298E-03	3090	.390E-03	1833	.337E-04	.730E-03
32	1.8	-30.0	0.0	2130	.235E-03	2474	.316E-03	1460	.267E-04	.570E-03
33	1.8	-60.0	0.0	1629	.163E-03	1723	.214E-03	1022	.186E-04	.396E-03
36	2.1	90.0	0.0	1868	.197E-03	2034	.257E-03	1245	.227E-04	.477E-03
37	2.1	60.0	0.0	2340	.267E-03	2776	.357E-03	1672	.300E-04	.655E-03
38	2.1	30.0	0.0	2497	.288E-03	2950	.381E-03	1800	.330E-04	.702E-03
39	2.1	0.0	0.0	2511	.290E-03	2932	.378E-03	1813	.333E-04	.702E-03
40	2.1	-30.0	0.0	2086	.229E-03	2328	.296E-03	1448	.265E-04	.552E-03
41	2.1	-60.0	0.0	1653	.166E-03	1668	.207E-03	1056	.172E-04	.392E-03
42	2.1	-90.0	0.0	1295	.115E-03	1100	.142E-03	765	.130E-04	.270E-03
46	2.4	60.0	0.0	2313	.262E-03	2674	.343E-03	1680	.309E-04	.636E-03
47	2.4	30.0	0.0	2517	.291E-03	2902	.374E-03	1849	.340E-04	.699E-03
48	2.4	0.0	0.0	2387	.272E-03	2712	.348E-03	1720	.316E-04	.652E-03
49	2.4	-30.0	0.0	1924	.215E-03	2149	.272E-03	1372	.251E-04	.513E-03
50	2.4	-60.0	0.0	1621	.182E-03	1663	.206E-03	1065	.194E-04	.397E-03
56	2.7	60.0	0.0	2365	.269E-03	2642	.339E-03	1719	.315E-04	.640E-03
57	2.7	30.0	0.0	2397	.274E-03	2670	.344E-03	1752	.322E-04	.650E-03
58	2.7	0.0	0.0	2270	.256E-03	2515	.322E-03	1664	.305E-04	.609E-03
59	2.7	-30.0	0.0	1904	.214E-03	2135	.270E-03	1382	.253E-04	.510E-03
60	2.7	-60.0	0.0	1663	.188E-03	1648	.204E-03	1113	.203E-04	.392E-03
66	3.0	90.0	0.0	2034	.221E-03	2139	.271E-03	1431	.262E-04	.518E-03
67	3.0	45.0	0.0	2357	.268E-03	2604	.334E-03	1336	.244E-04	.626E-03
68	3.0	0.0	0.0	2190	.245E-03	2406	.307E-03	1527	.283E-04	.581E-03
69	3.0	-45.0	0.0	1810	.192E-03	1812	.227E-03	1244	.227E-04	.438E-03
70	3.0	-90.0	0.0	1333	.120E-03	1195	.143E-03	827	.150E-04	.278E-03
76	3.3	45.0	0.0	2291	.258E-03	2427	.310E-03	1697	.311E-04	.599E-03
77	3.3	0.0	0.0	2089	.229E-03	2183	.277E-03	1512	.277E-04	.534E-03
78	3.3	-45.0	0.0	1754	.181E-03	1724	.215E-03	1214	.222E-04	.418E-03
86	3.6	0.0	0.0	2057	.225E-03	2096	.265E-03	1479	.271E-04	.517E-03

RUN # 230

305FT,TEST NO. MA305,
40%,IN,BLE230::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.75 M/S	10.54 M/S	1.75 M/S	10.54 M/S	1.75 M/S	10.54 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.94 M/S	9.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+04		.53E+05		.36E+05	
BACKGROUND	.51E+03		.84E+02		.10E+03	
CALIBRATION FACTOR	.42E-02		.22E 02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (NM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
2	.3	0.0	0.0	877	.540E-04	869	.525E-04	420	.720E-05	.114E-03
6	.6	0.0	0.0	1850	.195E-03	1513	.195E-03	1457	.254E-04	.415E-03
10	.9	15.0	0.0	4615	.597E-03	4487	.600E-03	4220	.704E-04	.128E-02
11	.9	0.0	0.0	4455	.574E-03	4268	.570E-03	4141	.756E-04	.122E-02
12	.9	-15.0	0.0	4230	.541E-03	4008	.535E-03	3930	.716E-04	.115E-02
15	1.2	30.0	0.0	5261	.691E-03	5172	.693E-03	4924	.902E-04	.147E-02
16	1.2	15.0	0.0	5370	.710E-03	5271	.707E-03	5042	.926E-04	.151E-02
17	1.2	0.0	0.0	5201	.682E-03	5042	.676E-03	4801	.874E-04	.145E-02
18	1.2	-15.0	0.0	4849	.631E-03	4625	.619E-03	4546	.831E-04	.133E-02
19	1.2	-30.0	0.0	4255	.545E-03	4001	.534E-03	3957	.721E-04	.115E-02
22	1.5	60.0	0.0	5063	.662E-03	4927	.667E-03	4727	.865E-04	.142E-02
23	1.5	30.0	0.0	5431	.715E-03	5351	.719E-03	5124	.940E-04	.153E-02
24	1.5	0.0	0.0	5293	.695E-03	5132	.688E-03	4972	.911E-04	.147E-02
25	1.5	-30.0	0.0	4073	.518E-03	3788	.504E-03	3735	.680E-04	.109E-02
26	1.5	-60.0	0.0	3075	.373E-03	2747	.363E-03	2742	.495E-04	.786E-03
28	1.8	90.0	0.0	4469	.576E-03	4353	.582E-03	4108	.749E-04	.123E-02
29	1.8	60.0	0.0	5175	.678E-03	5083	.681E-03	4880	.894E-04	.145E-02
30	1.8	30.0	0.0	5331	.701E-03	5203	.697E-03	4996	.916E-04	.149E-02
31	1.8	0.0	0.0	4912	.640E-03	4727	.633E-03	4577	.837E-04	.136E-02
32	1.8	-30.0	0.0	4070	.518E-03	3809	.508E-03	3741	.681E-04	.109E-02
33	1.8	-60.0	0.0	2977	.359E-03	2637	.348E-03	2625	.472E-04	.754E-03
34	1.8	-90.0	0.0	2080	.229E-03	1699	.220E-03	1717	.302E-04	.479E-03
37	2.1	60.0	0.0	4955	.646E-03	4822	.646E-03	4610	.843E-04	.138E-02
38	2.1	30.0	0.0	4886	.636E-03	4716	.631E-03	4545	.831E-04	.135E-02
39	2.1	0.0	0.0	4422	.569E-03	4188	.559E-03	4062	.741E-04	.120E-02
40	2.1	-30.0	0.0	3707	.477E-03	3501	.466E-03	3440	.625E-04	.100E-02
41	2.1	-60.0	0.0	2809	.346E-03	2540	.335E-03	2531	.455E-04	.726E-03
46	2.4	60.0	0.0	4564	.590E-03	4405	.589E-03	4230	.772E-04	.126E-02
47	2.4	30.0	0.0	4540	.586E-03	4338	.580E-03	4217	.770E-04	.124E-02
48	2.4	0.0	0.0	4044	.514E-03	3700	.504E-03	3709	.675E-04	.109E-02
49	2.4	-30.0	0.0	3435	.426E-03	3132	.415E-03	3068	.555E-04	.896E-03
50	2.4	-60.0	0.0	2685	.317E-03	2357	.310E-03	2317	.414E-04	.668E-03
56	2.7	60.0	0.0	4320	.554E-03	4126	.551E-03	3976	.725E-04	.118E-02
57	2.7	30.0	0.0	4267	.546E-03	4032	.538E-03	3885	.708E-04	.116E-02
58	2.7	0.0	0.0	3706	.465E-03	3444	.458E-03	3354	.608E-04	.984E-03
59	2.7	-30.0	0.0	3290	.406E-03	3002	.398E-03	2924	.520E-04	.856E-03
60	2.7	-60.0	0.0	2703	.319E-03	2358	.310E-03	2321	.415E-04	.671E-03
66	3.0	90.0	0.0	3972	.504E-03	3752	.500E-03	3582	.651E-04	.107E-02
67	3.0	45.0	0.0	4010	.509E-03	3792	.505E-03	3634	.661E-04	.109E-02
68	3.0	0.0	0.0	3523	.438E-03	3258	.432E-03	3151	.570E-04	.928E-03
70	3.0	-90.0	0.0	2054	.225E-03	1695	.220E-03	1683	.296E-04	.474E-03
76	3.3	45.0	0.0	3644	.456E-03	3402	.452E-03	3271	.593E-04	.967E-03
77	3.3	0.0	0.0	3110	.378E-03	2822	.373E-03	2747	.495E-04	.801E-03
78	3.3	-45.0	0.0	2681	.316E-03	2346	.308E-03	2290	.409E-04	.665E-03
86	3.6	0.0	0.0	3055	.370E-03	2750	.363E-03	2657	.470E-04	.781E-03

RUN # 231

385FT,TEST NO. MA385,
40%,IN,DLE231::17;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.10 M/S	22.25 M/S	2.10 M/S	22.25 M/S	2.10 M/S	22.25 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.94 M/S	9.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.50E+03		.10E+03		.92E+02	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	.3	15.0	0.0	958	.674E 04	551	.624E-04	560	.891E-05	.139E-03
2	.3	0.0	0.0	1020	.766E 04	602	.695E-04	639	.104E-04	.156E-03
3	.3	-15.0	0.0	730	.337E 04	310	.301E 04	335	.463E-05	.604E-04
4	.6	30.0	0.0	2974	.366E 03	2700	.360E 03	2631	.403E-04	.774E-03
5	.6	15.0	0.0	3167	.394E 03	2903	.389E 03	2842	.524E 04	.835E-03
6	.6	0.0	0.0	3266	.409E-03	2995	.401E 03	2940	.544E-04	.864E-03
7	.6	-15.0	0.0	3113	.386E-03	2780	.372E 03	2888	.517E 04	.809E-03
8	.6	-30.0	0.0	2722	.328E 03	2383	.317E 03	2405	.440E-04	.689E-03
9	.9	30.0	0.0	4773	.632E-03	4602	.635E-03	4471	.834E-04	.135E-02
10	.9	15.0	0.0	4822	.645E 03	4749	.645E 03	4553	.849E-04	.137E-02
11	.9	0.0	0.0	4760	.630E 03	4589	.623E-03	4465	.833E-04	.134E-02
12	.9	-15.0	0.0	4395	.576E-03	4107	.567E 03	4122	.767E-04	.122E-02
13	.9	-30.0	0.0	3960	.511E-03	3694	.498E 03	3640	.677E-04	.108E-02
14	1.2	60.0	0.0	4550	.600E-03	4511	.612E 03	4240	.791E-04	.129E-02
15	1.2	30.0	0.0	5401	.736E-03	5414	.737E-03	5169	.967E-04	.157E-02
16	1.2	15.0	0.0	5419	.727E 03	5347	.720E 03	5123	.950E-04	.155E-02
17	1.2	0.0	0.0	5124	.683E-03	5002	.680E-03	4818	.900E 04	.145E-02
18	1.2	-15.0	0.0	4724	.624E 03	4557	.610E 03	4401	.820E-04	.132E-02
19	1.2	-30.0	0.0	4141	.538E-03	3939	.532E-03	3843	.714E-04	.114E-02
20	1.2	-60.0	0.0	3053	.377E-03	2710	.363E-03	2714	.499E-04	.790E-03
22	1.5	60.0	0.0	5022	.679E 03	5050	.686E 03	4779	.892E-04	.145E-02
24	1.5	0.0	0.0	5037	.671E-03	4881	.663E-03	4693	.876E-04	.142E-02
25	1.5	-30.0	0.0	4103	.541E 03	3927	.531E 03	3827	.711E-04	.114E-02
26	1.5	-60.0	0.0	3040	.375E-03	2733	.365E-03	2718	.500E-04	.790E-03
29	1.8	60.0	0.0	5001	.665E-03	4923	.669E 03	4664	.871E-04	.142E-02
30	1.8	30.0	0.0	5077	.676E-03	4994	.679E-03	4757	.888E-04	.144E-02
31	1.8	0.0	0.0	4765	.630E 03	4622	.627E 03	4423	.825E-04	.134E-02
32	1.8	-30.0	0.0	3848	.510E-03	3692	.498E 03	3588	.666E-04	.107E-02
33	1.8	-60.0	0.0	3020	.383E 03	2773	.371E 03	2709	.498E-04	.803E-03
37	2.1	60.0	0.0	4789	.634E-03	4646	.630E-03	4435	.827E-04	.135E-02
38	2.1	30.0	0.0	4644	.612E 03	4545	.616E 03	4358	.812E-04	.131E-02
39	2.1	0.0	0.0	4218	.549E-03	4020	.544E 03	3889	.723E-04	.117E-02
40	2.1	-30.0	0.0	3765	.482E 03	3526	.475E 03	3388	.628E-04	.102E-02
41	2.1	-60.0	0.0	2903	.355E 03	2591	.345E 03	2542	.467E-04	.747E-03
46	2.4	60.0	0.0	4468	.586E 03	4313	.584E 03	4094	.762E-04	.125E-02
47	2.4	30.0	0.0	4240	.554E-03	4100	.555E 03	3937	.732E-04	.118E-02
48	2.4	0.0	0.0	3952	.511E-03	3729	.503E 03	3571	.662E-04	.108E-02
49	2.4	-30.0	0.0	3319	.417E 03	3039	.408E 03	2947	.544E-04	.870E-03
50	2.4	-60.0	0.0	2675	.321E-03	2386	.317E 03	2292	.420E-04	.680E-03
56	2.7	60.0	0.0	4122	.535E 03	3970	.537E 03	3740	.696E-04	.114E-02
57	2.7	30.0	0.0	3982	.515E-03	3760	.509E 03	3590	.666E-04	.109E-02
58	2.7	0.0	0.0	3656	.466E-03	3407	.459E 03	3292	.609E-04	.986E-03
60	2.7	-60.0	0.0	2612	.312E 03	2203	.303E-03	2232	.407E-04	.655E-03
68	3.0	0.0	0.0	3422	.432E 03	3169	.426E 03	3034	.560E-04	.913E-03

RUN # 232

385FT,TEST NO: MA385:
40%,IN,DLE232::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.45 M/S	25.96 M/S	2.45 M/S	25.96 M/S	2.45 M/S	25.96 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.02 M/S	8.73 M/S	.94 M/S	7.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.51E+03		.11E+03		.11E+03	
CALIBRATION FACTOR	.42E-02		.23E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	.3	15.0	0.0	949	.603E-04	573	.630E-04	504	.708E-05	.141E-03
2	.3	0.0	0.0	1067	.820E-04	664	.724E-04	686	.110E-04	.170E-03
3	.3	-15.0	0.0	804	.432E-04	395	.391E-04	414	.585E-05	.889E-04
4	.6	30.0	0.0	2742	.330E-03	2512	.333E-03	2413	.432E-04	.707E-03
5	.6	15.0	0.0	3124	.387E-03	2892	.385E-03	2802	.513E-04	.824E-03
6	.6	0.0	0.0	3214	.400E-03	2957	.394E-03	2914	.534E-04	.848E-03
7	.6	-15.0	0.0	3200	.398E-03	2929	.390E-03	2889	.530E-04	.838E-03
8	.6	-30.0	0.0	2946	.361E-03	2605	.346E-03	2644	.483E-04	.755E-03
9	.9	30.0	0.0	4599	.605E-03	4508	.609E-03	4315	.801E-04	.122E-02
10	.9	15.0	0.0	4697	.619E-03	4592	.621E-03	4415	.820E-04	.132E-02
11	.9	0.0	0.0	4729	.624E-03	4592	.621E-03	4470	.831E-04	.133E-02
12	.9	-15.0	0.0	4376	.575E-03	4208	.568E-03	4127	.765E-04	.122E-02
13	.9	-30.0	0.0	3901	.502E-03	3647	.470E-03	3624	.670E-04	.106E-02
14	1.2	60.0	0.0	4291	.557E-03	4209	.568E-03	3993	.740E-04	.120E-02
15	1.2	30.0	0.0	5139	.685E-03	5008	.680E-03	4882	.905E-04	.147E-02
16	1.2	15.0	0.0	5172	.690E-03	5115	.694E-03	4918	.914E-04	.148E-02
17	1.2	0.0	0.0	5023	.668E-03	4920	.667E-03	4763	.887E-04	.142E-02
18	1.2	-15.0	0.0	4677	.617E-03	4531	.613E-03	4403	.818E-04	.131E-02
19	1.2	-30.0	0.0	4176	.542E-03	3991	.538E-03	3873	.721E-04	.115E-02
20	1.2	-60.0	0.0	3146	.390E-03	2842	.377E-03	2814	.515E-04	.820E-03
22	1.5	60.0	0.0	4723	.623E-03	4646	.629E-03	4427	.823E-04	.133E-02
24	1.5	0.0	0.0	4767	.630E-03	4636	.627E-03	4466	.830E-04	.134E-02
25	1.5	-30.0	0.0	4104	.532E-03	3897	.525E-03	3793	.702E-04	.113E-02
26	1.5	-60.0	0.0	3152	.391E-03	2861	.381E-03	2818	.514E-04	.824E-03
29	1.8	60.0	0.0	4555	.599E-03	4466	.604E-03	4258	.790E-04	.128E-02
30	1.8	30.0	0.0	4671	.616E-03	4576	.619E-03	4383	.814E-04	.132E-02
31	1.8	0.0	0.0	4453	.583E-03	4227	.570E-03	4124	.765E-04	.124E-02
32	1.8	-30.0	0.0	3745	.479E-03	3535	.475E-03	3437	.634E-04	.102E-02
33	1.8	-60.0	0.0	2998	.368E-03	2717	.361E-03	2650	.484E-04	.770E-03
37	2.1	60.0	0.0	4228	.550E-03	4115	.555E-03	3943	.730E-04	.118E-02
38	2.1	30.0	0.0	4296	.560E-03	4184	.565E-03	4008	.743E-04	.120E-02
39	2.1	0.0	0.0	3903	.514E-03	3800	.511E-03	3668	.678E-04	.109E-02
40	2.1	-30.0	0.0	3556	.451E-03	3330	.446E-03	3201	.589E-04	.956E-03
41	2.1	-60.0	0.0	2769	.334E-03	2477	.328E-03	2415	.439E-04	.706E-03
46	2.4	60.0	0.0	4061	.525E-03	3884	.523E-03	3715	.687E-04	.112E-02
47	2.4	30.0	0.0	3956	.510E-03	3793	.510E-03	3652	.675E-04	.109E-02
48	2.4	0.0	0.0	3730	.477E-03	3522	.473E-03	3372	.622E-04	.101E-02
50	2.4	-60.0	0.0	2540	.301E-03	2249	.296E-03	2178	.394E-04	.636E-03
56	2.7	60.0	0.0	3704	.485E-03	3606	.484E-03	3427	.632E-04	.103E-02
57	2.7	30.0	0.0	3707	.473E-03	3422	.469E-03	3351	.618E-04	.100E-02
58	2.7	0.0	0.0	3397	.427E-03	3176	.425E-03	3050	.562E-04	.908E-03
59	2.7	-30.0	0.0	2854	.347E-03	2507	.343E-03	2507	.457E-04	.736E-03
60	2.7	-60.0	0.0	2447	.287E-03	2133	.280E-03	2074	.375E-04	.604E-03
68	3.0	0.0	0.0	3206	.399E-03	2952	.394E-03	2840	.520E-04	.845E-03

RUN # 233

385FT,TEST,NO. MB385;
40%,IN,BLE233::17,250

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.20 M/S	1.42 M/S	14.20 M/S		
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.52E+03		.10E+03			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	2026	.222E-03	1623	.211E-03			.432E-03
10	.9	15.0	0.0	3199	.395E-03	2870	.384E-03			.779E-03
11	.9	0.0	0.0	2723	.325E-03	2353	.312E-03			.636E-03
12	.9	-15.0	0.0	3256	.405E-03	2923	.391E-03			.796E-03
15	1.2	30.0	0.0	3901	.511E-03	3721	.501E-03			.101E-02
16	1.2	15.0	0.0	4102	.537E-03	3702	.526E-03			.106E-02
17	1.2	0.0	0.0	4167	.530E-03	3047	.521E-03			.106E-02
18	1.2	-15.0	0.0	4001	.514E-03	3695	.490E-03			.101E-02
19	1.2	-30.0	0.0	3744	.476E-03	3419	.459E-03			.935E-03
22	1.5	60.0	0.0	3737	.475E-03	3453	.464E-03			.939E-03
23	1.5	30.0	0.0	4488	.585E-03	4251	.575E-03			.116E-02
24	1.5	0.0	0.0	4566	.597E-03	4301	.581E-03			.118E-02
25	1.5	-30.0	0.0	3946	.505E-03	3625	.488E-03			.993E-03
26	1.5	-60.0	0.0	2850	.344E-03	2470	.329E-03			.673E-03
29	1.8	60.0	0.0	3879	.496E-03	3592	.484E-03			.979E-03
30	1.8	30.0	0.0	4538	.593E-03	4226	.581E-03			.117E-02
31	1.8	0.0	0.0	4640	.608E-03	4373	.591E-03			.120E-02
32	1.8	-30.0	0.0	4058	.522E-03	3760	.508E-03			.103E-02
33	1.8	-60.0	0.0	3155	.389E-03	2799	.373E-03			.762E-03
37	2.1	60.0	0.0	3804	.486E-03	3620	.488E-03			.984E-03
38	2.1	30.0	0.0	4355	.566E-03	4100	.554E-03			.112E-02
39	2.1	0.0	0.0	4473	.584E-03	4216	.570E-03			.114E-02
40	2.1	-30.0	0.0	4003	.514E-03	3609	.497E-03			.101E-02
41	2.1	-60.0	0.0	3256	.404E-03	2825	.387E-03			.790E-03
46	2.4	60.0	0.0	3797	.485E-03	3535	.475E-03			.959E-03
47	2.4	30.0	0.0	4334	.563E-03	4057	.548E-03			.111E-02
48	2.4	0.0	0.0	4344	.564E-03	4042	.548E-03			.111E-02
49	2.4	-30.0	0.0	3845	.490E-03	3533	.475E-03			.966E-03
50	2.4	-60.0	0.0	3216	.398E-03	2852	.381E-03			.778E-03
56	2.7	60.0	0.0	3748	.476E-03	3468	.466E-03			.942E-03
57	2.7	30.0	0.0	4177	.540E-03	3915	.528E-03			.107E-02
58	2.7	0.0	0.0	4206	.544E-03	3925	.529E-03			.107E-02
59	2.7	-30.0	0.0	3748	.476E-03	3430	.461E-03			.937E-03
60	2.7	-60.0	0.0	3201	.395E-03	2850	.380E-03			.776E-03
66	3.0	90.0	0.0	2210	.249E-03	1844	.241E-03			.490E-03
67	3.0	45.0	0.0	3809	.497E-03	3611	.486E-03			.983E-03
68	3.0	0.0	0.0	4021	.518E-03	3721	.501E-03			.102E-02
69	3.0	-45.0	0.0	3359	.419E-03	3030	.407E-03			.825E-03
70	3.0	-90.0	0.0	2553	.300E-03	2177	.287E-03			.587E-03
76	3.3	45.0	0.0	3764	.479E-03	3465	.466E-03			.944E-03
77	3.3	0.0	0.0	3871	.494E-03	3567	.480E-03			.974E-03
78	3.3	-45.0	0.0	3122	.384E-03	2851	.391E-03			.775E-03
85	3.6	45.0	0.0	3452	.442E-03	3360	.451E-03			.913E-03
86	3.6	0.0	0.0	3524	.443E-03	3227	.433E-03			.876E-03
87	3.6	-45.0	0.0	3021	.369E-03	2674	.356E-03			.725E-03
95	3.9	0.0	0.0	3524	.443E-03	3207	.430E-03			.873E-03

RUN # 234

385FT,TEST NO. MB385,
40%,IN,DLE234::17.:270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S		
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.70E+03		.31E+03			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	3129	.359E-03	2342	.282E-03			.641E-03
11	.9	0.0	0.0	4255	.525E-03	3553	.450E-03			.975E-03
12	.9	-15.0	0.0	5347	.666E-03	4530	.585E-03			.127E-02
15	1.2	-30.0	0.0	5834	.750E-03	5244	.684E-03			.144E-02
16	1.2	15.0	0.0	6232	.817E-03	5569	.729E-03			.155E-02
17	1.2	0.0	0.0	6399	.842E-03	5707	.748E-03			.159E-02
18	1.2	-15.0	0.0	6357	.836E-03	5671	.743E-03			.158E-02
19	1.2	-30.0	0.0	6010	.785E-03	5229	.682E-03			.148E-02
22	1.5	60.0	0.0	5299	.679E-03	4867	.632E-03			.131E-02
23	1.5	30.0	0.0	6487	.855E-03	6018	.791E-03			.165E-02
24	1.5	0.0	0.0	6844	.907E-03	6277	.827E-03			.173E-02
26	1.5	-60.0	0.0	4510	.583E-03	3006	.496E-03			.106E-02
29	1.8	60.0	0.0	5597	.723E-03	5224	.681E-03			.140E-02
30	1.8	30.0	0.0	6475	.853E-03	6054	.796E-03			.165E-02
31	1.8	0.0	0.0	6692	.885E-03	6257	.824E-03			.171E-02
32	1.8	-30.0	0.0	6060	.792E-03	5520	.722E-03			.151E-02
33	1.8	-60.0	0.0	4836	.611E-03	4227	.553E-03			.116E-02
37	2.1	60.0	0.0	5656	.732E-03	5225	.695E-03			.143E-02
38	2.1	30.0	0.0	6161	.807E-03	5807	.762E-03			.157E-02
39	2.1	0.0	0.0	6206	.813E-03	5824	.764E-03			.158E-02
40	2.1	-30.0	0.0	5624	.727E-03	5151	.671E-03			.140E-02
41	2.1	-60.0	0.0	4650	.584E-03	4151	.533E-03			.112E-02
46	2.4	60.0	0.0	5355	.688E-03	5051	.657E-03			.134E-02
47	2.4	30.0	0.0	5969	.778E-03	5649	.740E-03			.152E-02
48	2.4	0.0	0.0	6059	.792E-03	5672	.743E-03			.153E-02
49	2.4	-30.0	0.0	5257	.673E-03	4823	.624E-03			.130E-02
50	2.4	-60.0	0.0	4535	.567E-03	4053	.512E-03			.109E-02
56	2.7	60.0	0.0	5193	.664E-03	4902	.637E-03			.130E-02
57	2.7	30.0	0.0	5541	.715E-03	5254	.685E-03			.140E-02
58	2.7	0.0	0.0	5494	.708E-03	5140	.670E-03			.138E-02
59	2.7	-30.0	0.0	5048	.645E-03	4647	.601E-03			.125E-02
60	2.7	-60.0	0.0	4416	.549E-03	3971	.508E-03			.106E-02
67	3.0	45.0	0.0	5130	.654E-03	4034	.527E-03			.128E-02
68	3.0	0.0	0.0	5144	.656E-03	4700	.621E-03			.128E-02
69	3.0	-45.0	0.0	4520	.564E-03	4125	.529E-03			.109E-02
76	3.3	45.0	0.0	4932	.628E-03	4598	.595E-03			.122E-02
77	3.3	0.0	0.0	4879	.617E-03	4514	.583E-03			.120E-02
78	3.3	-45.0	0.0	4307	.533E-03	3916	.500E-03			.103E-02
85	3.6	45.0	0.0	4642	.582E-03	4325	.557E-03			.114E-02
86	3.6	0.0	0.0	4388	.545E-03	4039	.517E-03			.106E-02
87	3.6	-45.0	0.0	3949	.480E-03	3554	.450E-03			.930E-03
95	3.9	0.0	0.0	4329	.536E-03	3904	.510E-03			.105E-02

RUN # 235

385FT,TEST NO. MB385,
40%,IN,BLE235::17,290

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.20 M/S	1.42 M/S	14.20 M/S		
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.47E+03		.53E+02			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1619	.169E-03	1143	.151E-03			.320E-03
10	.9	15.0	0.0	2054	.352E-03	2376	.322E-03			.674E-03
11	.9	0.0	0.0	2504	.300E-03	2013	.271E-03			.572E-03
12	.9	-15.0	0.0	3070	.304E-03	2536	.344E-03			.728E-03
15	1.2	30.0	0.0	3515	.449E-03	3076	.417E-03			.866E-03
16	1.2	15.0	0.0	3852	.499E-03	3379	.461E-03			.960E-03
17	1.2	0.0	0.0	4002	.533E-03	3571	.487E-03			.102E-02
18	1.2	-15.0	0.0	3953	.514E-03	3442	.469E-03			.984E-03
19	1.2	-30.0	0.0	3742	.483E-03	3233	.440E-03			.923E-03
22	1.5	60.0	0.0	3410	.434E-03	3053	.416E-03			.849E-03
23	1.5	30.0	0.0	4282	.563E-03	3852	.526E-03			.109E-02
24	1.5	0.0	0.0	4604	.610E-03	4157	.568E-03			.118E-02
25	1.5	-30.0	0.0	4307	.566E-03	3804	.520E-03			.107E-02
26	1.5	-60.0	0.0	3336	.429E-03	2059	.309E-03			.812E-03
29	1.8	60.0	0.0	3830	.496E-03	3462	.473E-03			.969E-03
30	1.8	30.0	0.0	4576	.606E-03	4179	.571E-03			.118E-02
31	1.8	0.0	0.0	4930	.658E-03	4492	.613E-03			.127E-02
32	1.8	-30.0	0.0	4503	.607E-03	4027	.546E-03			.117E-02
33	1.8	-60.0	0.0	3718	.472E-03	3244	.442E-03			.721E-03
37	2.1	60.0	0.0	4015	.523E-03	3668	.501E-03			.102E-02
38	2.1	30.0	0.0	4658	.618E-03	4272	.584E-03			.120E-02
39	2.1	0.0	0.0	4892	.639E-03	4403	.602E-03			.124E-02
40	2.1	-30.0	0.0	4502	.595E-03	4043	.553E-03			.115E-02
41	2.1	-60.0	0.0	3714	.472E-03	3250	.443E-03			.922E-03
46	2.4	60.0	0.0	4104	.536E-03	3763	.514E-03			.105E-02
48	2.4	0.0	0.0	4592	.609E-03	4184	.572E-03			.118E-02
49	2.4	-30.0	0.0	4220	.554E-03	3773	.515E-03			.107E-02
50	2.4	-60.0	0.0	3615	.464E-03	3165	.431E-03			.895E-03
56	2.7	60.0	0.0	3990	.520E-03	3644	.497E-03			.102E-02
57	2.7	30.0	0.0	4420	.583E-03	4049	.553E-03			.114E-02
58	2.7	0.0	0.0	4364	.575E-03	3959	.541E-03			.112E-02
59	2.7	-30.0	0.0	4114	.538E-03	3706	.506E-03			.104E-02
60	2.7	-60.0	0.0	3608	.463E-03	3170	.432E-03			.895E-03
66	3.0	90.0	0.0	3224	.406E-03	2895	.394E-03			.800E-03
67	3.0	45.0	0.0	4003	.523E-03	3741	.511E-03			.104E-02
68	3.0	0.0	0.0	4225	.554E-03	3837	.524E-03			.108E-02
69	3.0	-45.0	0.0	3789	.490E-03	3375	.460E-03			.950E-03
70	3.0	-90.0	0.0	2904	.359E-03	2471	.335E-03			.694E-03
76	3.3	45.0	0.0	3947	.513E-03	3520	.471E-03			.100E-02
77	3.3	0.0	0.0	4029	.525E-03	3645	.490E-03			.102E-02
78	3.3	-45.0	0.0	3521	.461E-03	3100	.433E-03			.894E-03
85	3.6	45.0	0.0	3822	.495E-03	3479	.475E-03			.969E-03
86	3.6	0.0	0.0	3729	.481E-03	3366	.459E-03			.940E-03
87	3.6	-45.0	0.0	3368	.428E-03	2962	.403E-03			.831E-03
95	3.9	0.0	0.0	3700	.478E-03	3339	.455E-03			.933E-03

RUN # 236

305FT, TEST NO. MD325, 40%, IN, BLE236::17,198

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.98 M/S	1.42 M/S	14.98 M/S		
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.49E+03		.50E+02			
CALIBRATION FACTOR	.42E-02		.22E-02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	1157	.985E-04	701	.901E-04			.189E-03
2	2.7	225.0	0.0	1346	.126E-03	888	.116E-03			.242E-03
3	2.7	210.0	0.0	1530	.154E-03	1104	.146E-03			.299E-03
4	2.7	195.0	0.0	1955	.216E-03	1530	.205E-03			.421E-03
5	2.7	180.0	0.0	2251	.260E-03	1828	.246E-03			.506E-03
6	2.7	165.0	0.0	2546	.303E-03	2158	.292E-03			.595E-03
7	2.7	150.0	0.0	2831	.345E-03	2443	.331E-03			.676E-03
8	2.7	135.0	0.0	3070	.381E-03	2699	.366E-03			.747E-03
9	2.7	120.0	0.0	3400	.429E-03	3051	.415E-03			.844E-03
10	2.7	105.0	0.0	3657	.467E-03	3306	.450E-03			.918E-03
11	2.7	90.0	0.0	2602	.312E-03	2205	.298E-03			.610E-03
12	2.7	75.0	0.0	4313	.564E-03	3992	.545E-03			.111E-02
13	2.7	60.0	0.0	4451	.584E-03	4254	.582E-03			.117E-02
14	2.7	45.0	0.0	4724	.625E-03	4423	.605E-03			.123E-02
15	2.7	30.0	0.0	4770	.631E-03	4495	.615E-03			.125E-02
16	2.7	15.0	0.0	4554	.599E-03	4272	.584E-03			.118E-02
17	2.7	0.0	0.0	4437	.582E-03	4197	.574E-03			.116E-02
18	2.7	-15.0	0.0	3468	.439E-03	2976	.405E-03			.844E-03
19	2.7	-30.0	0.0	3724	.477E-03	3426	.467E-03			.944E-03
20	2.7	-45.0	0.0	3202	.400E-03	2870	.390E-03			.790E-03
21	2.7	-60.0	0.0	2710	.328E-03	2392	.324E-03			.652E-03
22	2.7	-75.0	0.0	2289	.265E-03	1910	.257E-03			.523E-03
23	2.7	-90.0	0.0	2017	.225E-03	1644	.221E-03			.446E-03
24	2.7	-105.0	0.0	1697	.178E-03	1324	.176E-03			.354E-03
25	2.7	-120.0	0.0	1407	.135E-03	1014	.133E-03			.269E-03
26	2.7	-135.0	0.0	1151	.976E-04	728	.938E-04			.191E-03
27	2.7	-150.0	0.0	995	.746E-04	574	.725E-04			.147E-03
28	2.7	-165.0	0.0	849	.531E-04	465	.574E-04			.110E-03
29	2.7	-180.0	0.0	727	.351E-04	337	.397E-04			.748E-04
30	2.7	-195.0	0.0	663	.257E-04	221	.237E-04			.493E-04
31	2.7	-210.0	0.0	590	.149E-04	151	.140E-04			.289E-04
32	2.7	-225.0	0.0	552	.929E-05	106	.775E-05			.170E-04
33	2.7	-240.0	0.0	540	.752E-05	133	.115E-04			.190E-04

RUN # 237

305FT, TEST NO: FA385,
100%,IN,BLE237::17,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.90 M/S	1.35 M/S	14.90 M/S	1.35 M/S	14.90 M/S
EXIT VEL.	1.01 M/S	19.90 M/S	1.04 M/S	20.37 M/S	1.12 M/S	22.00 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.54E+03		.99E+02		.20E+02	
CALIBRATION FACTOR	.39E-02		.21E 02		.14E-02	
SO2 FLUX		.050E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
53	2.7	150.0	0.0	1045	.415E-04	677	.823E-04	1012	.209E-04	.173E-03
54	2.7	120.0	0.0	1125	.772E-04	951	.121E-03	1304	.380E-04	.239E-03
55	2.7	90.0	0.0	1437	.110E-03	1179	.153E-03	1748	.519E-04	.315E-03
56	2.7	60.0	0.0	1577	.127E-03	1312	.172E-03	2057	.613E-04	.360E-03
57	2.7	30.0	0.0	1607	.130E-03	1451	.192E-03	2257	.679E-04	.390E-03
58	2.7	0.0	0.0	1520	.121E-03	1201	.160E-03	2230	.670E-04	.355E-03
59	2.7	-30.0	0.0	1376	.102E-03	1192	.155E-03	1946	.581E-04	.315E-03
60	2.7	-60.0	0.0	1150	.744E-04	700	.970E-04	1465	.431E-04	.215E-03
61	2.7	-90.0	0.0	252	.501E 04	570	.680E 04	1057	.303E-04	.140E-03
63	2.7	-150.0	0.0	709	.203E-04	271	.244E-04	401	.122E-04	.570E-04

RUN # 230

385FT, TEST NO. FA385,
100%,IN,BLE238::17,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S
EXIT VEL.	1.01 M/S	12.98 M/S	1.84 M/S	20.32 M/S	1.99 M/S	22.00 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.22E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.59E+03		.14E+03		.40E+03	
CALIBRATION FACTOR	.39E-02		.21E-02		.14E-02	
SO2 FLUX		.050E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (M)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
53	7	150.0	0.0	1098	.622E-04	681	.765E-04	1380	.307E-04	.169E-03
54	4.7	120.0	0.0	1204	.752E-04	920	.112E-03	1620	.385E-04	.225E-03
55	2.7	90.0	0.0	1397	.989E-04	1024	.135E-03	2024	.531E-04	.287E-03
56	2.7	60.0	0.0	1460	.108E-03	1152	.143E-03	2320	.604E-04	.311E-03
57	2.7	30.0	0.0	1421	.110E-03	1224	.164E-03	2413	.631E-04	.337E-03
58	2.7	0.0	0.0	1432	.104E-03	1211	.152E-03	2326	.603E-04	.316E-03
59	2.7	-30.0	0.0	1267	.827E-04	1044	.128E-03	1700	.477E-04	.261E-03
60	2.7	-60.0	0.0	1085	.606E-04	649	.720E-04	1535	.356E-04	.168E-03
61	2.7	-90.0	0.0	930	.417E-04	422	.477E-04	1152	.236E-04	.115E-03
62	2.7	-120.0	0.0	831	.295E-04	350	.307E-04	922	.156E-04	.758E-04
63	2.7	-150.0	0.0	783	.236E 04	277	.192E 04	732	.104E-04	.532E-04

RUN # 239

473FT,TEST NO.:MA475;
40%,IN,BLE239::17;250

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S	1.44 M/S	15.45 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.24 M/S	2.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.33E+05	
BACKGROUND	.44E+03		.53E+02		.45E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	617	.270E-04	247	.271E 04	171	.242E-05	.564E-04
11	.9	0.0	0.0	1029	.450E-04	765	.995E 04	502	.104E-04	.206E-03
16	1.2	15.0	0.0	1262	.123E-03	291	.131E 03	705	.142E-04	.268E-03
17	1.2	0.0	0.0	1577	.170E-03	1331	.177E 03	1042	.175E-04	.360E-03
18	1.2	-15.0	0.0	1477	.155E-03	1223	.163E-03	702	.100E-04	.337E-03
23	1.5	30.0	0.0	1970	.222E-03	1795	.243E 03	1442	.272E-04	.492E-03
24	1.5	0.0	0.0	1633	.170E-03	1324	.187E 03	1163	.215E-04	.387E-03
25	1.5	-30.0	0.0	1767	.190E 03	1549	.209E 03	1203	.238E-04	.431E-03
29	1.8	60.0	0.0	1864	.213E-03	1677	.227E-03	1325	.259E-04	.466E-03
30	1.8	30.0	0.0	2110	.249E-03	1958	.266E 03	1434	.305E-04	.546E-03
31	1.8	0.0	0.0	2241	.269E-03	2003	.284E 03	1744	.330E-04	.586E-03
32	1.8	-30.0	0.0	2051	.241E 03	1858	.252E-03	1567	.272E-04	.522E-03
33	1.8	-60.0	0.0	1680	.185E-03	1445	.195E-03	1220	.225E-04	.402E-03
37	2.1	60.0	0.0	1905	.219E-03	1721	.233E-03	1445	.269E-04	.479E-03
38	2.1	30.0	0.0	2256	.271E 03	2115	.288E 03	1722	.335E-04	.593E-03
39	2.1	0.0	0.0	2330	.282E-03	2104	.298E-03	1877	.352E-04	.615E-03
40	2.1	-30.0	0.0	2158	.257E-03	1701	.269E 03	1605	.317E-04	.558E-03
41	2.1	-60.0	0.0	1815	.205E-03	1520	.216E 03	1372	.255E-04	.447E-03
46	2.4	60.0	0.0	2124	.252E-03	1902	.270E 03	1711	.320E-04	.553E-03
47	2.4	30.0	0.0	2351	.285E-03	2220	.303E-03	1921	.360E-04	.624E-03
48	2.4	0.0	0.0	2405	.293E-03	2252	.308E-03	1941	.368E-04	.638E-03
49	2.4	-30.0	0.0	2160	.257E 03	1984	.270E 03	1721	.322E-04	.559E-03
50	2.4	-60.0	0.0	1867	.213E-03	1647	.223E-03	1429	.266E-04	.463E-03
56	2.7	60.0	0.0	2144	.254E-03	1904	.270E-03	1737	.325E-04	.557E-03
57	2.7	30.0	0.0	2411	.294E-03	2276	.311E-03	1975	.370E-04	.642E-03
58	2.7	0.0	0.0	2225	.267E-03	2047	.279E 03	1774	.332E-04	.578E-03
60	2.7	-60.0	0.0	1720	.221E-03	1702	.230E-03	1401	.276E-04	.479E-03
67	3.0	45.0	0.0	2321	.281E-03	2174	.297E 03	1911	.358E-04	.613E-03
68	3.0	0.0	0.0	2407	.294E-03	2275	.311E-03	1922	.374E-04	.642E-03
69	3.0	-45.0	0.0	2073	.247E-03	1907	.259E-03	1672	.314E-04	.537E-03
70	3.0	-90.0	0.0	1600	.173E-03	1342	.180E-03	1143	.215E-04	.375E-03
75	3.3	90.0	0.0	1707	.219E-03	1717	.233E-03	1408	.277E-04	.480E-03
76	3.3	45.0	0.0	2269	.273E-03	2100	.287E 03	1860	.350E-04	.595E-03
77	3.3	0.0	0.0	2395	.292E-03	2253	.307E-03	1922	.374E-04	.637E-03
78	3.3	-45.0	0.0	2042	.242E-03	1865	.253E-03	1652	.300E-04	.526E-03
85	3.6	45.0	0.0	2274	.274E-03	2115	.288E-03	1885	.353E-04	.597E-03
86	3.6	0.0	0.0	2305	.278E-03	2214	.302E-03	1976	.371E-04	.629E-03
87	3.6	-45.0	0.0	2065	.243E-03	1849	.251E-03	1646	.307E-04	.524E-03
95	3.9	0.0	0.0	2304	.278E-03	2142	.292E-03	1920	.361E-04	.606E-03
104	4.2	0.0	0.0	2152	.258E-03	1956	.266E-03	1771	.331E-04	.555E-03
113	4.5	0.0	0.0	2127	.255E 03	2016	.274E 03	1834	.343E-04	.571E-03
122	4.8	0.0	0.0	2200	.263E-03	1991	.271E-03	1816	.340E-04	.568E-03

RUN # 240

473FT,TEST NO. MA475,
40%,IN,BLE240::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.94 M/S	9.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.32E+05	
BACKGROUND	.45E+03		.12E+03		.75E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.12E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M	40.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	840	.520E-04	476	.505E-04	483	.747E-05	.111E-03
11	.9	0.0	0.0	1524	.155E-03	1208	.153E-03	1241	.221E-04	.330E-03
16	1.2	15.0	0.0	1626	.170E-03	1311	.168E-03	1310	.234E-04	.361E-03
17	1.2	0.0	0.0	2158	.250E-03	1887	.249E-03	1917	.351E-04	.534E-03
18	1.2	-15.0	0.0	2123	.245E-03	1840	.242E-03	1884	.345E-04	.521E-03
23	1.5	30.0	0.0	2439	.292E-03	2218	.295E-03	2218	.409E-04	.620E-03
24	1.5	0.0	0.0	2578	.313E-03	2372	.310E-03	2366	.437E-04	.674E-03
25	1.5	-30.0	0.0	2423	.300E-03	2205	.293E-03	2224	.410E-04	.635E-03
29	1.8	60.0	0.0	2579	.313E-03	2340	.312E-03	2299	.425E-04	.667E-03
30	1.8	30.0	0.0	2778	.343E-03	2575	.345E-03	2566	.476E-04	.735E-03
31	1.8	0.0	0.0	2993	.375E-03	2786	.375E-03	2799	.521E-04	.802E-03
32	1.8	-30.0	0.0	2772	.342E-03	2518	.337E-03	2547	.472E-04	.726E-03
33	1.8	-60.0	0.0	2222	.260E-03	1926	.254E-03	1966	.360E-04	.550E-03
37	2.1	60.0	0.0	2370	.282E-03	2176	.289E-03	2117	.390E-04	.610E-03
38	2.1	30.0	0.0	2979	.373E-03	2811	.378E-03	2771	.515E-04	.802E-03
39	2.1	0.0	0.0	3027	.380E-03	2921	.394E-03	2909	.542E-04	.838E-03
40	2.1	-30.0	0.0	2961	.370E-03	2744	.369E-03	2757	.513E-04	.790E-03
41	2.1	-60.0	0.0	2352	.279E-03	2076	.275E-03	2103	.387E-04	.593E-03
46	2.4	60.0	0.0	2734	.334E-03	2545	.344E-03	2506	.464E-04	.726E-03
47	2.4	30.0	0.0	3118	.394E-03	2973	.401E-03	2936	.547E-04	.849E-03
48	2.4	0.0	0.0	3183	.403E-03	3018	.407E-03	3002	.560E-04	.866E-03
49	2.4	-30.0	0.0	2809	.355E-03	2670	.360E-03	2669	.496E-04	.768E-03
50	2.4	-60.0	0.0	2341	.277E-03	2083	.276E-03	2090	.382E-04	.592E-03
56	2.7	60.0	0.0	2777	.343E-03	2602	.349E-03	2534	.470E-04	.738E-03
57	2.7	30.0	0.0	3059	.385E-03	2901	.391E-03	2836	.520E-04	.820E-03
58	2.7	0.0	0.0	3122	.394E-03	2979	.402E-03	2903	.541E-04	.850E-03
59	2.7	-30.0	0.0	2898	.361E-03	2688	.361E-03	2640	.490E-04	.771E-03
60	2.7	-60.0	0.0	2450	.294E-03	2185	.290E-03	2200	.405E-04	.625E-03
[illegible]	3.0	45.0	0.0	2935	.366E-03	2779	.374E-03	2691	.500E-04	.790E-03
68	3.0	0.0	0.0	3049	.383E-03	2895	.390E-03	2825	.526E-04	.826E-03
69	3.0	-45.0	0.0	2676	.327E-03	2445	.327E-03	2407	.445E-04	.699E-03
70	3.0	-90.0	0.0	1907	.224E-03	1693	.221E-03	1690	.307E-04	.476E-03
75	3.3	90.0	0.0	2440	.292E-03	2233	.297E-03	2159	.398E-04	.629E-03
76	3.3	45.0	0.0	2923	.364E-03	2752	.370E-03	2689	.500E-04	.784E-03
77	3.3	0.0	0.0	2989	.374E-03	2804	.377E-03	2752	.512E-04	.803E-03
78	3.3	-45.0	0.0	2514	.303E-03	2270	.302E-03	2243	.414E-04	.647E-03
79	3.3	-90.0	0.0	1765	.221E-03	1665	.217E-03	1640	.299E-04	.460E-03
85	3.6	45.0	0.0	2883	.358E-03	2715	.365E-03	2646	.491E-04	.772E-03
86	3.6	0.0	0.0	2867	.356E-03	2666	.358E-03	2611	.485E-04	.762E-03
87	3.6	-45.0	0.0	2416	.289E-03	2183	.287E-03	2138	.394E-04	.615E-03
95	3.9	0.0	0.0	2771	.342E-03	2576	.345E-03	2519	.467E-04	.734E-03
104	4.2	0.0	0.0	2501	.301E-03	2291	.305E-03	2247	.415E-04	.648E-03
113	4.5	0.0	0.0	2500	.313E-03	2359	.315E-03	2305	.426E-04	.670E-03
122	4.8	0.0	0.0	2500	.302E-03	2298	.306E-03	2240	.413E-04	.650E-03

RUN # 241

473FT,TEST NO. MA475,
40%,IN,BLE241::17,290

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.74 M/S	7.56 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.17E+03		.53E+02		.16E+03	
CALIBRATION FACTOR	.43E-02		.23E 02		.15E 02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	534	.540E-04	110	.703E-05	121	.000E+00	.639E-04
11	.9	0.0	0.0	810	.771E-04	308	.460E-04	325	.453E-05	.148E-03
16	1.2	15.0	0.0	755	.110E-03	543	.484E-04	541	.733E-05	.193E-03
17	1.2	0.0	0.0	1184	.152E-03	751	.725E-04	769	.117E-04	.261E-03
18	1.2	-15.0	0.0	1262	.163E-03	805	.105E-03	828	.120E-04	.281E-03
23	1.5	30.0	0.0	1424	.187E-03	1025	.136E-03	1034	.168E-04	.340E-03
25	1.5	-30.0	0.0	1601	.214E-03	1154	.154E-03	1101	.176E-04	.386E-03
29	1.8	60.0	0.0	1445	.171E-03	1070	.143E-03	1042	.173E-04	.351E-03
30	1.8	30.0	0.0	1741	.235E-03	1354	.192E-03	1360	.230E-04	.440E-03
31	1.8	0.0	0.0	1879	.255E-03	1427	.192E-03	1445	.247E-04	.472E-03
32	1.8	-30.0	0.0	1552	.207E-03	1111	.148E-03	1140	.188E-04	.373E-03
33	1.8	-60.0	0.0	1559	.208E-03	1203	.161E-03	1123	.178E-04	.388E-03
37	2.1	60.0	0.0	2123	.292E-03	1730	.234E-03	1719	.305E-04	.556E-03
38	2.1	30.0	0.0	2150	.296E-03	1725	.234E-03	1740	.305E-04	.560E-03
39	2.1	0.0	0.0	1874	.254E-03	1432	.193E-03	1453	.240E-04	.472E-03
40	2.1	-30.0	0.0	1874	.254E-03	1432	.193E-03	1453	.240E-04	.472E-03
46	2.4	60.0	0.0	1777	.240E-03	1432	.193E-03	1422	.244E-04	.457E-03
47	2.4	30.0	0.0	2183	.301E-03	1810	.247E-03	1816	.310E-04	.579E-03
48	2.4	0.0	0.0	2310	.321E-03	1912	.261E-03	1930	.340E-04	.615E-03
49	2.4	-30.0	0.0	2221	.304E-03	1807	.245E-03	1826	.320E-04	.583E-03
50	2.4	-60.0	0.0	1917	.261E-03	1471	.201E-03	1511	.252E-04	.480E-03
56	2.7	60.0	0.0	1817	.248E-03	1469	.198E-03	1470	.252E-04	.469E-03
57	2.7	30.0	0.0	2177	.300E-03	1805	.248E-03	1812	.312E-04	.579E-03
58	2.7	0.0	0.0	2354	.326E-03	1906	.270E-03	1977	.349E-04	.631E-03
59	2.7	-30.0	0.0	2324	.322E-03	1932	.263E-03	1933	.340E-04	.618E-03
60	2.7	-60.0	0.0	2013	.275E-03	1605	.217E-03	1613	.272E-04	.520E-03
66	3.0	90.0	0.0	1541	.205E-03	1181	.158E-03	1159	.192E-04	.382E-03
67	3.0	45.0	0.0	2012	.275E-03	1667	.226E-03	1669	.290E-04	.530E-03
68	3.0	0.0	0.0	2335	.323E-03	1909	.271E-03	1975	.340E-04	.629E-03
69	3.0	-45.0	0.0	2243	.307E-03	1870	.254E-03	1954	.325E-04	.596E-03
70	3.0	-90.0	0.0	1732	.233E-03	1334	.179E-03	1310	.222E-04	.435E-03
75	3.3	90.0	0.0	1612	.215E-03	1292	.173E-03	1241	.211E-04	.409E-03
76	3.3	45.0	0.0	2074	.284E-03	1733	.235E-03	1690	.285E-04	.542E-03
77	3.3	0.0	0.0	2341	.327E-03	2010	.275E-03	1976	.352E-04	.637E-03
78	3.3	-45.0	0.0	2276	.314E-03	1904	.259E-03	1885	.331E-04	.606E-03
85	3.6	45.0	0.0	2089	.287E-03	1761	.239E-03	1751	.305E-04	.556E-03
87	3.6	-45.0	0.0	2265	.313E-03	1870	.257E-03	1884	.331E-04	.603E-03
95	3.9	0.0	0.0	2327	.322E-03	2000	.272E-03	2005	.354E-04	.629E-03
104	4.2	0.0	0.0	2282	.316E-03	1754	.266E-03	1743	.342E-04	.616E-03
113	4.5	0.0	0.0	2222	.306E-03	1703	.259E-03	1824	.333E-04	.598E-03
122	4.8	0.0	0.0	2286	.316E-03	1961	.267E-03	1933	.340E-04	.617E-03

RUN # 242

385FT, TEST NO. FA385,
100%,IN,BLE242::17,199

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.90 M/S	1.35 M/S	14.90 M/S	1.35 M/S	14.90 M/S
EXIT VEL.	1.01 M/S	19.79 M/S	1.84 M/S	20.32 M/S	1.99 M/S	22.00 M/S
VOL. FLOW	.27E-03M3/S	.27E+02M3/S	.29E-03M3/S	.29E+02M3/S	.27E-03M3/S	.27E+02M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.50E+03		.13E+03		.68E+02	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	32.12 CM	117.36 M	32.12 CM	117.36 M	32.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
10	.9	15.0	0.0	1363	.113E-03	1112	.150E-03	1505	.402E-04	.311E-03
11	.9	0.0	0.0	1146	.843E-04	834	.100E-03	1006	.341E-04	.222E-03
12	.9	-15.0	0.0	1033	.957E-04	923	.121E-03	1155	.364E-04	.253E-03
27	1.5	30.0	0.0	1649	.150E-03	1458	.202E-03	2197	.714E-04	.424E-03
25	1.5	0.0	0.0	1561	.132E-03	1305	.172E-03	1963	.635E-04	.381E-03
26	1.5	-30.0	0.0	1369	.113E-03	1043	.142E-03	1510	.486E-04	.305E-03
54	1.7	150.0	0.0	1510	.133E-03	1224	.167E-03	1533	.491E-04	.347E-03
53	1.7	120.0	0.0	1571	.140E-03	1338	.184E-03	1741	.561E-04	.380E-03
55	1.7	90.0	0.0	1746	.163E-03	1531	.214E-03	2071	.678E-04	.444E-03
52	1.7	60.0	0.0	1772	.166E-03	1537	.214E-03	2202	.715E-04	.452E-03
57	1.7	30.0	0.0	1721	.159E-03	1521	.223E-03	2264	.737E-04	.465E-03
58	1.7	0.0	0.0	1721	.160E-03	1494	.208E-03	2152	.698E-04	.437E-03
59	1.7	-30.0	0.0	1544	.136E-03	1293	.177E-03	1776	.572E-04	.371E-03
60	1.7	-60.0	0.0	1386	.116E-03	1042	.139E-03	1447	.462E-04	.301E-03
61	1.7	-90.0	0.0	1279	.102E-03	928	.122E-03	1103	.374E-04	.241E-03
62	1.7	-120.0	0.0	1153	.852E-04	785	.100E-03	930	.309E-04	.214E-03
63	1.7	-150.0	0.0	1101	.784E-04	714	.895E-04	776	.237E-04	.192E-03

RUN # 243

STACK #1 STACK #2 STACK #3

123FT,TEST NO. MA475,
40%,IN,BLE243::17:270

	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.20 M/S	12.75 M/S	1.20 M/S	12.75 M/S	1.20 M/S	12.75 M/S
EXIT VEL.	.60 M/S	6.37 M/S	.62 M/S	6.53 M/S	.64 M/S	6.80 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.33E+05	
BACKGROUND	.45E+03		.22E+02		.24E+02	
CALIBRATION FACTOR	.43E-02		.23E 02		.15E 02	
CO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M	40.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	567	.104E-04	120	.227E 04	168	.277E-05	.439E-04
11	.9	0.0	0.0	829	.570E-04	539	.713E 04	482	.875E-05	.137E-03
16	1.2	15.0	0.0	1008	.835E 04	767	.103E 03	673	.124E 04	.199E-03
17	1.2	0.0	0.0	1132	.102E 03	941	.127E 03	838	.156E 04	.245E 03
18	1.2	-15.0	0.0	1077	.938E-04	868	.117E 03	766	.142E-04	.225E-03
23	1.5	30.0	0.0	1302	.136E 03	1244	.169E 03	1095	.205E-04	.324E-03
24	1.5	0.0	0.0	1362	.137E 03	1230	.167E 03	1107	.207E-04	.325E-03
25	1.5	-30.0	0.0	1270	.124E 03	1108	.150E 03	1006	.188E-04	.293E-03
29	1.8	60.0	0.0	1390	.140E 03	1279	.174E 03	1110	.208E-04	.335E-03
30	1.8	30.0	0.0	1559	.165E 03	1489	.204E 03	1319	.247E-04	.394E-03
31	1.8	0.0	0.0	1589	.170E 03	1510	.206E 03	1346	.253E-04	.401E-03
32	1.8	-30.0	0.0	1447	.149E 03	1313	.179E 03	1195	.224E-04	.350E-03
33	1.8	-60.0	0.0	804	.651E-04	572	.759E 04	530	.967E-05	.151E-03
37	2.1	60.0	0.0	1436	.147E 03	1319	.180E 03	1163	.218E-04	.349E-03
38	2.1	30.0	0.0	1661	.180E 03	1610	.221E 03	1429	.269E-04	.429E-03
39	2.1	0.0	0.0	1710	.188E 03	1656	.227E 03	1471	.277E-04	.442E-03
40	2.1	-30.0	0.0	1585	.168E 03	1485	.203E 03	1351	.254E-04	.398E-03
41	2.1	-60.0	0.0	1308	.128E 03	1125	.153E 03	1027	.192E-04	.300E-03
46	2.4	60.0	0.0	1568	.167E 03	1488	.203E 03	1313	.246E-04	.394E-03
47	2.4	30.0	0.0	1717	.189E 03	1661	.227E 03	1481	.278E-04	.444E-03
48	2.4	0.0	0.0	1781	.199E 03	1735	.238E 03	1553	.292E-04	.465E-03
49	2.4	-30.0	0.0	1607	.172E 03	1499	.205E 03	1357	.255E-04	.403E-03
50	2.4	-60.0	0.0	1401	.142E 03	1223	.166E 03	1124	.210E 04	.329E-03
56	2.7	60.0	0.0	1568	.167E 03	1474	.201E 03	1290	.243E 04	.392E-03
57	2.7	30.0	0.0	1730	.191E 03	1669	.229E 03	1472	.278E 04	.447E-03
58	2.7	0.0	0.0	1796	.200E 03	1739	.238E 03	1560	.294E-04	.468E-03
59	2.7	-30.0	0.0	1680	.184E 03	1582	.217E 03	1420	.267E-04	.429E-03
60	2.7	-60.0	0.0	1480	.154E 03	1305	.179E 03	1182	.222E 04	.354E-03
66	3.0	90.0	0.0	1431	.146E 03	1276	.174E 03	1126	.211E 04	.341E-03
67	3.0	45.0	0.0	1603	.184E 03	1604	.220E 03	1408	.264E-04	.430E-03
68	3.0	0.0	0.0	1812	.203E 03	1750	.241E 03	1552	.292E-04	.473E-03
69	3.0	-45.0	0.0	1618	.174E 03	1482	.203E 03	1334	.250E-04	.402E-03
70	3.0	-90.0	0.0	1204	.125E 03	1063	.144E 03	964	.180E-04	.287E-03
75	3.3	90.0	0.0	1462	.151E 03	1319	.180E 03	1165	.218E-04	.353E-03
76	3.3	45.0	0.0	1715	.180E 03	1640	.225E 03	1446	.272E-04	.440E-03
77	3.3	0.0	0.0	1834	.206E 03	1771	.243E 03	1504	.290E-04	.479E-03
78	3.3	-45.0	0.0	1629	.176E 03	1481	.202E 03	1350	.255E-04	.404E-03
79	3.3	-90.0	0.0	1277	.133E 03	1033	.140E 03	947	.176E-04	.282E-03
85	3.6	45.0	0.0	1709	.188E 03	1634	.224E 03	1452	.273E-04	.439E-03
86	3.6	0.0	0.0	1846	.208E 03	1747	.242E 03	1605	.302E-04	.490E-03
87	3.6	-45.0	0.0	1607	.172E 03	1440	.197E 03	1305	.245E-04	.394E-03
95	3.9	0.0	0.0	1829	.205E 03	1726	.237E 03	1561	.294E-04	.471E-03
104	4.2	0.0	0.0	1731	.191E 03	1605	.220E 03	1458	.274E-04	.438E-03
113	4.5	0.0	0.0	1806	.202E 03	1680	.230E 03	1532	.288E 04	.461E-03
122	4.8	0.0	0.0	1797	.201E 03	1655	.227E 03	1500	.282E-04	.455E-03

RUN # 244

STACK #1 STACK #2 STACK #3

473FT,TEST NO. MA175,
40%,IN,BLD244:17,270

	STACK #1 MODEL	STACK #1 PROTOTYPE	STACK #2 MODEL	STACK #2 PROTOTYPE	STACK #3 MODEL	STACK #3 PROTOTYPE
VEL. AT STACK HT	1.01 M/S	19.12 M/S	1.01 M/S	19.12 M/S	1.01 M/S	19.12 M/S
EXIT VEL.	.00 M/S	0.77 M/S	.82 M/S	0.73 M/S	.94 M/S	7.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.55E+03		.27E+03		.30E+02	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
CO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M	40.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
9	.8	0.0	0.0	1176	.701E 04	740	.653E 04	714	.126E-04	.168E-03
10	.9	15.0	0.0	2096	.223E 03	1661	.189E 03	1627	.297E-04	.443E-03
11	.9	0.0	0.0	2087	.222E 03	1670	.191E 03	1667	.304E-04	.443E-03
12	.9	-15.0	0.0	1929	.199E 03	1479	.165E 03	1473	.260E-04	.391E-03
16	1.0	15.0	0.0	2415	.270E 03	2027	.239E 03	1997	.366E-04	.545E-03
17	1.0	0.0	0.0	2736	.316E 03	2303	.277E 03	2323	.426E-04	.635E-03
18	1.0	-15.0	0.0	2585	.294E-03	2137	.254E 03	2143	.397E-04	.589E-03
22	1.5	60.0	0.0	3040	.360E-03	2600	.320E 03	2612	.480E-04	.736E-03
24	1.5	30.0	0.0	3244	.404E-03	2745	.344E 03	2743	.512E-04	.823E-03
24	1.5	0.0	0.0	3400	.385E-03	2790	.343E 03	2778	.515E-04	.779E-03
25	1.5	-30.0	0.0	2715	.313E-03	2260	.271E 03	2292	.421E-04	.626E-03
26	1.5	-60.0	0.0	2134	.229E-03	1670	.191E 03	1695	.307E-04	.451E-03
29	1.8	60.0	0.0	3576	.438E-03	3212	.400E 03	3156	.582E-04	.896E-03
30	1.8	30.0	0.0	3681	.453E-03	3291	.411E 03	3282	.605E-04	.925E-03
31	1.8	0.0	0.0	3410	.414E-03	2993	.370E 03	3008	.554E-04	.840E-03
32	1.8	-30.0	0.0	2887	.338E-03	2447	.296E 03	2470	.454E-04	.680E-03
33	1.8	-60.0	0.0	2204	.251E-03	1836	.213E 03	1853	.337E-04	.478E-03
37	2.1	60.0	0.0	3464	.422E-03	3129	.389E 03	3027	.558E-04	.867E-03
38	2.1	30.0	0.0	3770	.466E-03	3304	.424E 03	3353	.619E-04	.952E-03
39	2.1	0.0	0.0	3418	.415E-03	3023	.375E 03	2995	.552E-04	.845E-03
40	2.1	-30.0	0.0	2900	.353E-03	2553	.311E 03	2554	.470E-04	.710E-03
41	2.1	-60.0	0.0	2406	.288E-03	1954	.229E 03	1963	.359E-04	.534E-03
46	2.4	60.0	0.0	3780	.469E-03	3424	.429E 03	3382	.624E-04	.960E-03
47	2.4	30.0	0.0	3709	.457E-03	3300	.413E 03	3296	.608E-04	.931E-03
48	2.4	0.0	0.0	3416	.415E-03	2982	.369E 03	2993	.552E-04	.839E-03
49	2.4	-30.0	0.0	2916	.342E-03	2478	.300E 03	2468	.454E-04	.688E-03
50	2.4	-60.0	0.0	2379	.265E-03	1927	.226E 03	1925	.352E-04	.525E-03
56	2.7	60.0	0.0	3629	.446E-03	3267	.400E-03	3211	.592E-04	.913E-03
57	2.7	30.0	0.0	3649	.449E-03	3283	.407E 03	3218	.594E-04	.915E-03
58	2.7	0.0	0.0	3366	.400E-03	2964	.367E 03	2998	.534E-04	.828E-03
59	2.7	-30.0	0.0	2924	.343E-03	2504	.304E 03	2497	.457E-04	.693E-03
60	2.7	-60.0	0.0	2386	.266E-03	1944	.231E 03	1944	.356E-04	.532E-03
67	3.0	45.0	0.0	3600	.441E-03	3220	.401E 03	3170	.585E-04	.901E-03
68	3.0	0.0	0.0	3290	.392E-03	2892	.352E 03	2869	.529E-04	.806E-03
69	3.0	-45.0	0.0	2641	.302E-03	2220	.265E 03	2216	.407E-04	.609E-03
70	3.0	-90.0	0.0	1948	.202E-03	1510	.170E 03	1518	.276E-04	.400E-03
75	3.3	90.0	0.0	3205	.376E-03	2925	.361E 03	2875	.530E-04	.810E-03
76	3.3	45.0	0.0	3477	.424E-03	3004	.383E-03	3043	.561E-04	.863E-03
77	3.3	0.0	0.0	3147	.376E-03	2734	.335E-03	2730	.502E-04	.761E-03
78	3.3	-45.0	0.0	2625	.300E 03	2190	.261E 03	2177	.400E-04	.601E-03
79	3.3	-90.0	0.0	1914	.177E 03	1492	.166E-03	1474	.268E-04	.370E-03
86	3.6	0.0	0.0	3050	.362E 03	2627	.321E 03	2500	.472E 04	.730E-03
95	3.9	0.0	0.0	2741	.346E-03	2535	.309E-03	2491	.458E-04	.700E-03
104	4.2	0.0	0.0	2761	.320E 03	2355	.284E 03	2318	.426E-04	.646E-03

RUN # 245

473FT,TEST NO.:MA175
40%,IN,BLE245::17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.17 M/S	22.94 M/S	2.17 M/S	22.94 M/S	2.17 M/S	22.94 M/S
EXIT VEL.	.00 M/S	0.77 M/S	.02 M/S	0.73 M/S	.94 M/S	9.50 M/S
VOL. FLOW	.12E-03M3/S	.12E103M3/S	.13E-03M3/S	.12E103M3/S	.13E 03M3/S	.12E103M3/S
SOURCE STRENGTH	.10E104		.53E105		.36E105	
BACKGROUND	.53E103		.22E103		.50E102	
CALIBRATION FACTOR	.41E-02		.22E 02		.15E 02	
SO2 FLUX		.400E103 (GM/S)		.400E103 (GM/S)		.550E102 (GM/S)
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M	40.01 CM	144.03 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1307	.113E 03	257	.100E 03	812	.143E-04	.227E-03
10	.9	15.0	0.0	2380	.209E 03	2050	.210E 03	1910	.347E-04	.552E-03
11	.9	0.0	0.0	2375	.220E 03	2030	.247E 03	1900	.347E-04	.549E-03
12	.9	-15.0	0.0	2130	.230E 03	1835	.215E 03	1700	.302E-04	.489E-03
16	1.2	15.0	0.0	2743	.321E 03	2420	.300E 03	2204	.417E-04	.663E-03
17	1.2	0.0	0.0	3040	.334E 03	2727	.340E 03	2621	.480E-04	.753E-03
18	1.2	-15.0	0.0	2830	.335E 03	2505	.310E 03	2414	.441E-04	.689E-03
22	1.5	60.0	0.0	3273	.401E 03	3041	.382E 03	2055	.523E-04	.839E-03
23	1.5	30.0	0.0	3500	.442E 03	3314	.420E 03	3147	.581E 04	.921E-03
24	1.5	0.0	0.0	3359	.410E 03	3069	.387E 03	2941	.539E-04	.851E-03
25	1.5	-30.0	0.0	2781	.327E 03	2447	.302E 03	2343	.420E-04	.672E-03
26	1.5	-60.0	0.0	2046	.220E 03	1713	.203E 03	1600	.289E 04	.452E-03
29	1.8	60.0	0.0	3714	.462E 03	3486	.444E 03	3283	.603E-04	.966E-03
30	1.8	30.0	0.0	3739	.465E 03	3480	.443E 03	3315	.609E-04	.969E-03
31	1.8	0.0	0.0	3557	.410E 03	3041	.366E-03	2736	.530E-04	.850E-03
32	1.8	-30.0	0.0	2815	.332E 03	2483	.307E 03	2378	.434E 04	.682E-03
33	1.8	-60.0	0.0	2121	.231E 03	1724	.214E 03	1678	.304E-04	.475E-03
37	2.1	60.0	0.0	3462	.426E 03	3220	.409E 03	3041	.550E 04	.891E-03
38	2.1	30.0	0.0	3427	.452E 03	3443	.430E 03	3271	.601E-04	.957E-03
39	2.1	0.0	0.0	3290	.400E 03	2992	.376E 03	2856	.523E-04	.829E-03
40	2.1	-30.0	0.0	2816	.332E-03	2500	.310E 03	2352	.431E -04	.684E-03
41	2.1	-60.0	0.0	2144	.234E 03	1815	.212E 03	1699	.308E-04	.482E-03
46	2.4	60.0	0.0	3672	.456E 03	3421	.435E 03	3243	.592E-04	.950E-03
47	2.4	30.0	0.0	3523	.441E 03	3291	.417E 03	3142	.577E-04	.916E-03
48	2.4	0.0	0.0	3231	.392E 03	2946	.370E 03	2770	.507E-04	.813E-03
49	2.4	-30.0	0.0	2650	.300E 03	2330	.287E 03	2184	.398E-04	.634E-03
50	2.4	-60.0	0.0	2132	.233E 03	1726	.214E 03	1662	.302E-04	.477E-03
56	2.7	60.0	0.0	3467	.426E 03	3235	.409E 03	3004	.551E 04	.891E-03
57	2.7	30.0	0.0	3405	.417E 03	3130	.395E 03	2954	.542E-04	.866E-03
58	2.7	0.0	0.0	3001	.370E 03	2790	.349E 03	2634	.482E-04	.767E-03
59	2.7	-30.0	0.0	2423	.304E 03	2220	.281E 03	2161	.394E-04	.624E-03
60	2.7	-60.0	0.0	2101	.220E 03	1776	.211E 03	1652	.300E-04	.469E-03
67	3.0	45.0	0.0	3321	.405E-03	3052	.386E-03	2875	.527E 04	.843E-03
68	3.0	0.0	0.0	2933	.349E 03	2639	.329E 03	2507	.458E-04	.723E-03
69	3.0	-45.0	0.0	2279	.254E 03	1961	.236E 03	1846	.335E-04	.524E-03
70	3.0	-90.0	0.0	1663	.165E 03	1362	.155E 03	1232	.220E 04	.342E-03
75	3.3	90.0	0.0	3140	.380E-03	2882	.362E 03	2698	.474E-04	.791E-03
76	3.3	45.0	0.0	3139	.370E 03	2843	.356E 03	2700	.474E-04	.784E-03
77	3.3	0.0	0.0	2745	.321E 03	2433	.301E 03	2302	.420E-04	.664E-03
78	3.3	-45.0	0.0	2173	.239E 03	1850	.221E 03	1735	.314E 04	.491E-03
79	3.3	-90.0	0.0	1614	.150E-03	1271	.145E 03	1154	.206E-04	.324E-03
86	3.6	0.0	0.0	2597	.300E 03	2303	.283E 03	2154	.392E 04	.622E-03
95	3.9	0.0	0.0	2471	.292E 03	2103	.267E-03	2040	.371E-04	.585E-03
104	4.2	0.0	0.0	2207	.255E 03	1994	.241E 03	1843	.334E 04	.529E-03

RUN # 246

173FT,TEST NO. MA475;
40%,IN,BLE246;17:270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.53 M/S	26.77 M/S	2.53 M/S	26.77 M/S	2.53 M/S	26.77 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.24 M/S	9.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+04		.52E+05		.36E+05	
BACKGROUND	.46E+03		.95E+02		.41E+02	
CALIBRATION FACTOR	.41E-02		.22E 02		.15E 02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	STACK #1 RAW (AREA)	STACK #1 CONCENTRATION (GM/M**3)	STACK #2 RAW (AREA)	STACK #2 CONCENTRATION (GM/M**3)	STACK #3 RAW (AREA)	STACK #3 CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1334	.126E 03	924	.113E 03	900	.140E-04	.254E-03
10	.9	15.0	0.0	2364	.275E 03	1979	.256E 03	1945	.355E-04	.566E-03
11	.9	0.0	0.0	2425	.284E-03	2040	.264E 03	2032	.371E 04	.585E-03
12	.9	-15.0	0.0	2247	.258E 03	1854	.239E 03	1849	.337E 04	.530E-03
16	1.2	15.0	0.0	2741	.322E-03	2376	.310E-03	2335	.427E-04	.682E-03
17	1.2	0.0	0.0	2924	.346E 03	2630	.344E 03	2619	.480E-04	.758E-03
18	1.2	-15.0	0.0	2748	.330E-03	2375	.309E 03	2373	.435E-04	.683E-03
22	1.5	60.0	0.0	3031	.371E 03	2737	.359E-03	2659	.488E 04	.779E-03
23	1.5	30.0	0.0	3463	.434E-03	3134	.413E 03	3077	.566E-04	.903E-03
24	1.5	0.0	0.0	3225	.400E 03	2881	.378E 03	2836	.521E-04	.830E-03
25	1.5	-30.0	0.0	2710	.325E-03	2334	.304E-03	2316	.424E-04	.672E-03
26	1.5	-60.0	0.0	1956	.216E 03	1577	.201E 03	1555	.282E-04	.445E-03
29	1.8	60.0	0.0	3340	.419E-03	3057	.402E-03	2992	.550E-04	.876E-03
30	1.8	30.0	0.0	3445	.431E 03	3115	.410E 03	3058	.562E-04	.897E-03
31	1.8	0.0	0.0	3157	.370E-03	2815	.369E-03	2775	.507E 04	.810E-03
32	1.8	-30.0	0.0	2675	.320E 03	2291	.299E 03	2259	.413E-04	.659E-03
33	1.8	-60.0	0.0	2026	.236E-03	1706	.219E 03	1682	.306E-04	.485E-03
37	2.1	60.0	0.0	3120	.384E 03	2812	.369E 03	2729	.501E-04	.803E-03
38	2.1	30.0	0.0	3337	.416E-03	3003	.395E 03	2953	.543E 04	.865E-03
39	2.1	0.0	0.0	3004	.360E 03	2669	.342E 03	2595	.476E-04	.765E-03
40	2.1	-30.0	0.0	2571	.305E 03	2209	.287E 03	2177	.398E-04	.632E-03
41	2.1	-60.0	0.0	2106	.230E-03	1724	.221E 03	1687	.307E-04	.489E-03
46	2.4	60.0	0.0	3207	.377E 03	2888	.379E-03	2816	.517E-04	.828E-03
47	2.4	30.0	0.0	3194	.395E-03	2862	.376E 03	2790	.514E-04	.822E-03
48	2.4	0.0	0.0	2140	.244E-03	1900	.231E-03	1764	.321E-04	.507E-03
49	2.4	-30.0	0.0	2417	.283E 03	2051	.266E 03	1999	.365E-04	.505E-03
50	2.4	-60.0	0.0	1982	.220E-03	1603	.205E 03	1561	.283E-04	.453E-03
56	2.7	60.0	0.0	3009	.360E 03	2600	.351E 03	2602	.477E-04	.767E-03
57	2.7	30.0	0.0	2967	.352E-03	2609	.341E 03	2571	.471E-04	.751E-03
58	2.7	0.0	0.0	2737	.329E 03	2389	.311E-03	2335	.427E-04	.683E-03
59	2.7	-30.0	0.0	2359	.274E-03	1902	.252E 03	1959	.357E-04	.567E-03
60	2.7	-60.0	0.0	1896	.207E 03	1518	.193E 03	1461	.265E-04	.427E-03
67	3.0	45.0	0.0	2710	.354E-03	2566	.336E 03	2425	.457E-04	.735E-03
68	3.0	0.0	0.0	2564	.304E 03	2210	.288E-03	2170	.398E 04	.632E-03
69	3.0	-45.0	0.0	2033	.227E-03	1660	.212E 03	1624	.295E-04	.469E-03
70	3.0	-90.0	0.0	1507	.162E 03	1216	.152E 03	1171	.211E-04	.336E-03
75	3.3	90.0	0.0	2803	.330E-03	2400	.325E 03	2424	.444E-04	.708E-03
76	3.3	45.0	0.0	2752	.331E 03	2411	.314E-03	2345	.429E-04	.688E-03
77	3.3	0.0	0.0	2382	.270E 03	2036	.263E 03	1985	.362E-04	.577E-03
78	3.3	-45.0	0.0	1942	.214E-03	1577	.201E 03	1543	.280E-04	.443E-03
79	3.3	-90.0	0.0	1532	.155E-03	1155	.144E 03	1116	.200E-04	.310E-03
86	3.6	0.0	0.0	2200	.263E 03	1929	.249E 03	1879	.342E-04	.546E-03
95	3.9	0.0	0.0	2172	.247E 03	1822	.234E 03	1750	.320E-04	.514E-03
104	4.2	0.0	0.0	1977	.219E 03	1625	.200E 03	1569	.285E 04	.455E-03

RUN # 247

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S		
EXIT VEL.	.00 M/S	0.77 M/S	.02 M/S	0.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+06		.52E+05			
BACKGROUND	.45E+03		.73E+02			
CALIBRATION FACTOR	.43E-02		.23E 02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M		
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M		

473FT, TEST NO. MP475,
40%,IN,BLE247:17:250

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	888	.673E-04	428	.503E 04			.118E-03
11	.9	0.0	0.0	1032	.209E 03	1210	.162E 03			.371E-03
16	1.2	15.0	0.0	2222	.267E 03	1650	.224E-03			.491E-03
17	1.2	0.0	0.0	2540	.317E 03	1931	.263E-03			.580E-03
18	1.2	-15.0	0.0	2401	.294E-03	1815	.247E 03			.541E-03
22	1.5	60.0	0.0	2535	.315E 03	1995	.273E 03			.588E-03
23	1.5	30.0	0.0	3117	.403E 03	2538	.350E 03			.752E-03
24	1.5	0.0	0.0	3030	.390E 03	2434	.335E 03			.724E-03
25	1.5	-30.0	0.0	2790	.353E-03	2174	.301E 03			.654E-03
26	1.5	-60.0	0.0	2054	.242E-03	1504	.203E 03			.445E-03
29	1.8	60.0	0.0	2718	.373E 03	2307	.320E 03			.701E-03
30	1.8	30.0	0.0	3432	.450E 03	2665	.376E 03			.846E-03
31	1.8	0.0	0.0	3306	.443E-03	2807	.388E-03			.831E-03
32	1.8	-30.0	0.0	3026	.389E 03	2456	.339E 03			.727E-03
33	1.9	-60.0	0.0	2275	.275E 03	1747	.237E 03			.513E-03
37	2.1	60.0	0.0	2849	.392E 03	2337	.321E 03			.603E-03
38	2.1	30.0	0.0	3462	.458E-03	2744	.407E-03			.865E-03
39	2.1	0.0	0.0	3487	.460E-03	2951	.408E 03			.868E-03
40	2.1	-30.0	0.0	3230	.420E-03	2700	.372E-03			.792E-03
41	2.1	-60.0	0.0	2552	.317E 03	2024	.277E-03			.594E-03
46	2.4	60.0	0.0	3237	.421E-03	2747	.379E-03			.800E-03
47	2.4	30.0	0.0	3615	.478E-03	3103	.430E-03			.908E-03
48	2.4	0.0	0.0	3518	.463E 03	2977	.412E 03			.875E-03
49	2.4	-30.0	0.0	3160	.410E-03	2656	.366E-03			.777E-03
50	2.4	-60.0	0.0	2560	.319E 03	2050	.280E-03			.599E-03
56	2.7	60.0	0.0	3106	.401E-03	2634	.363E-03			.764E-03
57	2.7	30.0	0.0	3441	.452E 03	2939	.406E 03			.858E-03
58	2.7	0.0	0.0	3515	.463E-03	3020	.418E 03			.881E-03
59	2.7	-30.0	0.0	3264	.425E-03	2773	.383E-03			.808E-03
60	2.7	-60.0	0.0	2646	.331E 03	2147	.294E-03			.625E-03
67	3.0	45.0	0.0	3251	.423E-03	2796	.386E 03			.809E-03
68	3.0	0.0	0.0	3429	.450E 03	2942	.406E-03			.856E-03
69	3.0	-45.0	0.0	2926	.381E 03	2490	.344E 03			.725E-03
70	3.0	-90.0	0.0	2133	.254E 03	1666	.226E 03			.480E-03
75	3.3	90.0	0.0	2671	.335E 03	2242	.300E-03			.643E-03
76	3.3	45.0	0.0	3180	.413E 03	2724	.376E-03			.789E-03
77	3.3	0.0	0.0	3311	.432E 03	2834	.391E-03			.823E-03
78	3.3	-45.0	0.0	2731	.375E 03	2452	.337E-03			.712E-03
79	3.3	-90.0	0.0	2130	.253E 03	1664	.226E 03			.479E-03
85	3.6	45.0	0.0	3144	.407E-03	2678	.372E-03			.779E-03
86	3.6	0.0	0.0	3220	.418E-03	2765	.382E 03			.800E-03
87	3.6	-45.0	0.0	2805	.356E-03	2330	.320E 03			.676E-03
95	3.9	0.0	0.0	3134	.405E-03	2666	.371E-03			.776E-03
104	4.2	0.0	0.0	2932	.375E-03	2479	.344E-03			.719E-03

RUN # 240

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S		
EXIT VEL.	.00 M/S	0.77 M/S	.02 M/S	0.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.40E+03		.14E+03			
CALIBRATION FACTOR	.43E-02		.23E 02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	231	.907E-04	437	.600E 04			.141E-03
11	.9	0.0	0.0	1999	.242E 03	1371	.192E 03			.435E-03
16	1.2	15.0	0.0	2459	.312E 03	1853	.261E 03			.573E-03
17	1.2	0.0	0.0	2050	.371E 03	2205	.311E 03			.682E-03
18	1.2	-15.0	0.0	2276	.345E 03	2058	.289E 03			.634E-03
23	1.5	60.0	0.0	2444	.310E 03	1756	.273E 03			.582E-03
24	1.5	30.0	0.0	3214	.426E 03	2231	.371E 03			.797E-03
25	1.5	0.0	0.0	3416	.456E 03	2002	.395E 03			.852E-03
26	1.5	-30.0	0.0	3305	.440E 03	2275	.377E 03			.817E-03
29	1.8	-60.0	0.0	2627	.337E 03	2034	.287E 03			.624E-03
30	1.8	60.0	0.0	2240	.305E 03	2443	.347E 03			.732E-03
31	1.8	30.0	0.0	3564	.479E 03	3027	.427E 03			.906E-03
32	1.8	0.0	0.0	3770	.513E 03	3212	.453E 03			.966E-03
33	1.8	-30.0	0.0	3686	.497E 03	3024	.437E 03			.934E-03
34	1.8	-60.0	0.0	2822	.367E 03	2249	.317E 03			.684E-03
37	2.1	60.0	0.0	2264	.308E 03	2497	.352E 03			.740E-03
38	2.1	30.0	0.0	3732	.504E 03	3230	.456E 03			.960E-03
39	2.1	0.0	0.0	3871	.528E 03	3341	.475E 03			.100E-02
40	2.1	-30.0	0.0	3740	.507E 03	3207	.453E 03			.959E-03
41	2.1	-60.0	0.0	3225	.420E 03	2650	.375E 03			.795E-03
46	2.4	60.0	0.0	3084	.417E 03	2849	.402E 03			.819E-03
47	2.4	30.0	0.0	3782	.512E 03	3280	.463E 03			.975E-03
48	2.4	0.0	0.0	3947	.537E 03	3423	.483E 03			.102E-02
49	2.4	-30.0	0.0	3506	.470E 03	3110	.439E 03			.909E-03
50	2.4	-60.0	0.0	3235	.430E 03	2602	.370E 03			.800E-03
54	2.7	60.0	0.0	3138	.414E 03	2712	.383E 03			.797E-03
55	2.7	30.0	0.0	3620	.487E 03	3142	.445E 03			.932E-03
58	2.7	0.0	0.0	3757	.508E 03	3445	.486E 03			.102E-02
59	2.7	-30.0	0.0	3706	.500E 03	3175	.448E 03			.949E-03
60	2.7	-60.0	0.0	3143	.410E 03	2651	.374E 03			.792E-03
67	3.0	45.0	0.0	3445	.464E-03	3011	.425E-03			.889E-03
68	3.0	0.0	0.0	3824	.520E 03	3345	.472E 03			.992E-03
69	3.0	-45.0	0.0	3431	.452E-03	2930	.413E 03			.872E-03
70	3.0	-90.0	0.0	2744	.355E 03	2219	.313E 03			.668E-03
75	3.3	90.0	0.0	2430	.338E 03	2342	.316E 03			.654E-03
76	3.3	45.0	0.0	3431	.459E 03	2969	.419E 03			.878E-03
77	3.3	0.0	0.0	3743	.506E 03	3254	.459E 03			.965E-03
78	3.3	-45.0	0.0	3309	.440E 03	2721	.384E 03			.824E-03
79	3.3	-90.0	0.0	2674	.347E 03	2101	.307E-03			.655E-03
85	3.6	45.0	0.0	3377	.454E 03	2930	.413E 03			.867E-03
86	3.6	0.0	0.0	3618	.487E-03	3129	.442E 03			.929E-03
87	3.6	-45.0	0.0	3117	.411E 03	2633	.371E 03			.783E-03
95	3.9	0.0	0.0	3418	.457E-03	2942	.416E-03			.873E-03
104	4.2	0.0	0.0	3146	.416E 03	2705	.382E 03			.797E-03

RUN # 249

473FT, TEST NO. MB475
40%,IN,BLE249:17,290

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S		
EXIT VEL.	.00 M/S	0.77 M/S	.02 M/S	0.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+06		.53E+05			
BACKGROUND	.49E+03		.11E+03			
CALIBRATION FACTOR	.43E 02		.23E 02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M		
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	652	.252E 04	686	.257E 04			.509E-04
11	.9	0.0	0.0	1209	.109E 03	849	.105E 03			.215E-03
16	1.2	15.0	0.0	1527	.150E 03	1107	.153E 03			.311E-03
17	1.2	0.0	0.0	1972	.213E 03	1564	.207E 03			.420E-03
18	1.2	-15.0	0.0	1721	.217E 03	1504	.210E 03			.427E-03
22	1.5	60.0	0.0	1669	.177E 03	1350	.177E 03			.355E-03
23	1.5	30.0	0.0	2145	.251E 03	1059	.249E 03			.500E-03
24	1.5	0.0	0.0	2453	.297E-03	2141	.209E 03			.506E-03
25	1.5	-30.0	0.0	2444	.296E 03	2116	.205E 03			.501E-03
26	1.5	-60.0	0.0	1947	.221E 03	1503	.211E 03			.432E-03
28	1.8	60.0	0.0	2023	.232E 03	1716	.229E 03			.461E-03
30	1.8	30.0	0.0	2532	.314E 03	2279	.308E 03			.622E-03
31	1.8	0.0	0.0	2857	.359E 03	2555	.346E 03			.706E-03
32	1.8	-30.0	0.0	2744	.341E 03	2422	.329E 03			.670E-03
33	1.8	-60.0	0.0	2212	.261E 03	1873	.251E 03			.512E-03
37	2.1	60.0	0.0	2152	.252E-03	1057	.248E-03			.500E-03
38	2.1	30.0	0.0	2783	.347E 03	2500	.340E 03			.687E-03
39	2.1	0.0	0.0	3059	.389E-03	2772	.379E 03			.767E-03
40	2.1	-30.0	0.0	2901	.377E 03	2672	.364E 03			.741E-03
41	2.1	-60.0	0.0	2497	.304E-03	2151	.298E 03			.574E-03
46	2.4	60.0	0.0	2535	.310E 03	2251	.304E 03			.614E-03
47	2.4	30.0	0.0	3055	.388E-03	2777	.372E 03			.767E-03
48	2.4	0.0	0.0	3296	.414E 03	2931	.401E 03			.815E-03
49	2.4	-30.0	0.0	3057	.389E-03	2741	.374E 03			.763E-03
50	2.4	-60.0	0.0	2542	.311E 03	2199	.297E 03			.608E-03
56	2.7	60.0	0.0	2535	.310E 03	2240	.303E-03			.613E-03
57	2.7	30.0	0.0	2950	.373E 03	2664	.363E 03			.735E-03
58	2.7	0.0	0.0	3249	.410E 03	2946	.402E 03			.823E-03
59	2.7	-30.0	0.0	3079	.392E 03	2754	.376E 03			.768E-03
60	2.7	-60.0	0.0	2531	.309E-03	2200	.297E 03			.606E-03
67	3.0	45.0	0.0	2844	.357E 03	2556	.348E 03			.704E-03
68	3.0	0.0	0.0	3100	.394E-03	2823	.385E 03			.780E-03
69	3.0	-45.0	0.0	2763	.344E 03	2435	.330E 03			.675E-03
70	3.0	-90.0	0.0	2166	.254E 03	1797	.240E 03			.494E-03
75	3.3	90.0	0.0	2167	.254E 03	1840	.249E 03			.503E-03
76	3.3	45.0	0.0	2825	.354E 03	2529	.344E-03			.677E-03
77	3.3	0.0	0.0	3032	.385E 03	2731	.372E-03			.757E-03
78	3.3	-45.0	0.0	2747	.342E 03	2411	.327E 03			.669E-03
79	3.3	-90.0	0.0	2112	.246E-03	1745	.233E-03			.479E-03
85	3.6	45.0	0.0	2803	.350E 03	2502	.340E 03			.690E-03
86	3.6	0.0	0.0	3000	.381E-03	2490	.340E-03			.749E-03
87	3.6	-45.0	0.0	2673	.331E 03	2325	.315E 03			.646E-03
95	3.9	0.0	0.0	2959	.374E 03	2644	.360E-03			.734E-03
104	4.2	0.0	0.0	2736	.340E 03	2426	.329E-03			.669E-03

RUN # 250

473FT, TEST NO. MC475,
40%,IN,DLE250::17:198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S
EXIT VEL.	.80 M/S	8.77 M/S	.82 M/S	8.73 M/S	.84 M/S	9.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.52E+03		.21E+03		.14E+03	
CALIBRATION FACTOR	.43E-02		.23E-02		.16E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	48.01 CM	144.03 M	48.01 CM	144.03 M	48.01 CM	144.03 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	874	.477E-04	499	.411E 04	452	.616E-05	.950E-04
2	2.7	225.0	0.0	904	.639E-04	609	.566E 04	505	.859E-05	.129E-03
3	2.7	210.0	0.0	1063	.757E-04	673	.655E-04	555	.924E-05	.151E-03
4	2.7	180.0	0.0	1458	.135E-03	1040	.117E-03	1041	.178E-04	.270E-03
5	2.7	165.0	0.0	1669	.166E-03	1245	.146E 03	1290	.222E-04	.334E-03
6	2.7	150.0	0.0	1859	.195E 03	1417	.170E 03	1486	.259E-04	.391E-03
7	2.7	135.0	0.0	2074	.227E-03	1620	.200E 03	1705	.302E-04	.457E-03
8	2.7	120.0	0.0	2295	.260E-03	1831	.230E 03	1927	.344E-04	.522E-03
9	2.7	105.0	0.0	2446	.283E-03	1988	.250E-03	2096	.377E-04	.570E-03
10	2.7	90.0	0.0	2669	.316E-03	2189	.278E 03	2337	.423E-04	.637E-03
11	2.7	75.0	0.0	2839	.341E-03	2345	.300E-03	2504	.456E-04	.687E-03
12	2.7	60.0	0.0	3013	.367E 03	2523	.325E 03	2700	.495E-04	.742E-03
13	2.7	45.0	0.0	3081	.378E 03	2571	.332E 03	2762	.505E-04	.760E-03
14	2.7	30.0	0.0	3158	.389E-03	2671	.346E 03	2803	.529E-04	.780E-03
15	2.7	15.0	0.0	3046	.372E 03	2560	.330E-03	2738	.501E-04	.753E-03
16	2.7	0.0	0.0	2946	.357E 03	2463	.317E 03	2667	.487E-04	.723E-03
17	2.7	-15.0	0.0	2689	.319E 03	2138	.271E-03	2170	.391E-04	.629E-03
18	2.7	-30.0	0.0	2550	.299E-03	2090	.264E 03	2255	.408E-04	.603E-03
19	2.7	-45.0	0.0	2275	.257E-03	1830	.230E-03	1945	.348E-04	.520E-03
20	2.7	-60.0	0.0	2107	.232E-03	1684	.207E 03	1800	.320E 04	.471E-03
21	2.7	-75.0	0.0	1840	.192E 03	1427	.171E 03	1501	.262E 04	.389E-03
22	2.7	-90.0	0.0	1321	.114E 03	926	.101E 03	973	.161E 04	.231E-03
23	2.7	-105.0	0.0	1575	.152E-03	1172	.136E 03	1224	.209E-04	.309E-03
24	2.7	-120.0	0.0	1384	.124E 03	987	.110E 03	1010	.169E 04	.250E-03
25	2.7	-150.0	0.0	1005	.790E-04	702	.626E-04	704	.109E-04	.159E-03
27	2.7	-165.0	0.0	962	.666E-04	577	.521E 04	504	.703E-05	.120E-03
28	2.7	-195.0	0.0	770	.319E 04	395	.265E 04	341	.389E-05	.623E-04
30	2.7	-210.0	0.0	705	.221E-04	338	.185E-04	274	.260E-05	.433E-04
31	2.7	-225.0	0.0	671	.171E 04	307	.142E 04	235	.185E-05	.331E-04
32	2.7	-240.0	0.0	616	.883E-05	268	.870E 05	223	.162E 05	.191E-04

RUN # 251

423FT,TEST NO.MD475
40%,IN,BLE251:17,190

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.46 M/S	15.45 M/S	1.46 M/S	15.45 M/S		
EXIT VEL.	.00 M/S	0.77 M/S	.02 M/S	0.73 M/S		
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S		
SOURCE STRENGTH	.10E+04		.53E+05			
BACKGROUND	.49E+03		.22E+03			
CALIBRATION FACTOR	.43E-02		.23E-02			
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		
STACK HEIGHT	40.01 CM	144.03 M	40.01 CM	144.03 M		
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M		

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	210.0	0.0	723	.453E 04	367	.304E 04			.838E-04
2	2.7	225.0	0.0	871	.571E 04	439	.486E 04			.106E-03
3	2.7	210.0	0.0	977	.732E 04	529	.614E 04			.135E-03
4	2.7	195.0	0.0	1158	.101E 03	700	.860E 04			.187E-03
5	2.7	180.0	0.0	1346	.129E 03	877	.111E 03			.240E-03
6	2.7	165.0	0.0	1546	.159E 03	1068	.138E 03			.297E-03
7	2.7	150.0	0.0	1783	.195E 03	1276	.167E 03			.362E-03
8	2.7	135.0	0.0	2043	.234E 03	1517	.201E 03			.436E-03
9	2.7	120.0	0.0	2280	.270E 03	1752	.235E 03			.505E-03
10	2.7	105.0	0.0	2503	.304E 03	1962	.265E 03			.568E-03
11	2.7	90.0	0.0	2316	.276E 03	1776	.238E 03			.514E-03
12	2.7	75.0	0.0	2949	.371E 03	2373	.333E 03			.704E-03
13	2.7	60.0	0.0	3146	.401E 03	2560	.362E 03			.763E-03
14	2.7	45.0	0.0	3320	.427E 03	2710	.387E 03			.814E-03
15	2.7	30.0	0.0	3416	.442E 03	2838	.409E 03			.851E-03
16	2.7	15.0	0.0	3525	.458E 03	2939	.423E 03			.881E-03
17	2.7	0.0	0.0	3536	.460E 03	2954	.425E 03			.885E-03
18	2.7	-15.0	0.0	2764	.343E 03	2107	.295E 03			.638E-03
19	2.7	-30.0	0.0	3038	.385E 03	2424	.340E 03			.725E-03
20	2.7	-45.0	0.0	2638	.324E 03	2124	.288E 03			.612E-03
21	2.7	-60.0	0.0	2475	.300E 03	1960	.264E 03			.564E-03
22	2.7	-75.0	0.0	2141	.249E 03	1654	.221E 03			.470E-03
23	2.7	-90.0	0.0	1872	.208E 03	1395	.184E 03			.393E-03
24	2.7	-105.0	0.0	1670	.177E 03	1222	.160E 03			.337E-03
25	2.7	-120.0	0.0	1421	.140E 03	994	.123E 03			.263E-03
26	2.7	-135.0	0.0	1250	.114E 03	814	.102E 03			.216E-03
27	2.7	-150.0	0.0	1056	.851E 04	624	.742E 04			.160E-03
28	2.7	-165.0	0.0	704	.521E 04	423	.563E 04			.110E-03
30	2.7	-175.0	0.0	622	.311E 04	295	.202E 04			.524E-04
31	2.7	-210.0	0.0	642	.225E 04	240	.204E 04			.429E-04
32	2.7	-225.0	0.0	522	.160E 04	203	.152E 04			.312E-04
33	2.7	-240.0	0.0	555	.937E 05	167	.101E 04			.194E-04

RUN # 252

305FT,TEST NO. FC305
100%,IN,BLE252::17:19

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S
EXIT VEL.	1.81 M/S	17.98 M/S	1.84 M/S	20.32 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+04		.53E+05		.36E+05	
BACKGROUND	.11E+04		.62E+03		.67E+03	
CALIBRATION FACTOR	.42E-02		.22E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	1197	.142E-04	954	.255E-04	704	.700E-05	.503E-04
2	2.7	225.0	0.0	1237	.221E-04	902	.320E-04	763	.705E-05	.648E-04
3	2.7	210.0	0.0	1207	.102E-04	716	.342E-04	756	.942E-05	.628E-04
4	2.7	195.0	0.0	1318	.320E-04	1024	.513E-04	1141	.150E-04	.999E-04
5	2.7	180.0	0.0	1410	.440E-04	1075	.621E-04	1272	.202E-04	.127E-03
6	2.7	165.0	0.0	1407	.444E-04	1140	.720E-04	1364	.233E-04	.140E-03
7	2.7	150.0	0.0	1466	.522E-04	1215	.803E-04	1510	.282E-04	.161E-03
8	2.7	135.0	0.0	1514	.585E-04	1293	.907E-04	1602	.313E-04	.180E-03
9	2.7	120.0	0.0	1564	.650E-04	1334	.984E-04	1745	.361E-04	.199E-03
10	2.7	105.0	0.0	1631	.738E-04	1458	.117E-03	1855	.397E-04	.231E-03
11	2.7	90.0	0.0	1313	.321E-04	1051	.554E-04	1434	.256E-04	.113E-03
12	2.7	75.0	0.0	1770	.920E-04	1550	.131E-03	2156	.490E-04	.273E-03
13	2.7	60.0	0.0	1780	.933E-04	1578	.135E-03	2275	.530E-04	.283E-03
14	2.7	45.0	0.0	1816	.980E-04	1613	.141E-03	2330	.552E-04	.295E-03
15	2.7	30.0	0.0	1814	.980E-04	1620	.142E-03	2345	.559E-04	.299E-03
16	2.7	15.0	0.0	1782	.936E-04	1579	.134E-03	2343	.560E-04	.284E-03
17	2.7	0.0	0.0	1741	.909E-04	1570	.135E-03	2400	.580E-04	.284E-03
18	2.7	-15.0	0.0	1620	.729E-04	1377	.105E-03	2022	.453E-04	.223E-03
19	2.7	-30.0	0.0	1676	.823E-04	1463	.118E-03	2220	.520E-04	.252E-03
20	2.7	-45.0	0.0	1667	.785E-04	1384	.106E-03	2044	.461E-04	.231E-03
21	2.7	-60.0	0.0	1567	.654E-04	1315	.955E-04	1885	.400E-04	.202E-03
22	2.7	-75.0	0.0	1462	.516E-04	1166	.729E-04	1610	.315E-04	.154E-03
23	2.7	-90.0	0.0	1434	.480E-04	1130	.686E-04	1545	.294E-04	.146E-03
24	2.7	-105.0	0.0	1359	.381E-04	1060	.568E-04	1331	.222E-04	.117E-03
25	2.7	-120.0	0.0	1330	.343E-04	1001	.479E-04	1272	.202E-04	.102E-03
26	2.7	-150.0	0.0	1238	.223E-04	900	.335E-04	1027	.120E-04	.668E-04
27	2.7	-165.0	0.0	1211	.187E-04	844	.302E-04	909	.004E-05	.660E-04
28	2.7	-180.0	0.0	1183	.151E-04	827	.366E-04	857	.630E-05	.500E-04
29	2.7	-195.0	0.0	1185	.153E-04	820	.204E-04	833	.550E-05	.412E-04
30	2.7	-210.0	0.0	1133	.852E-05	776	.137E-04	757	.295E-05	.251E-04
31	2.7	-225.0	0.0	1120	.681E-05	749	.126E-04	748	.265E-05	.221E-04
32	2.7	-240.0	0.0	1150	.107E-04	857	.260E-04	739	.235E-05	.391E-04

RUN # 253

385FT, TEST NO: MC385, 40%,IN,BLE253:17,190

	STACK #1.		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S	1.35 M/S	14.98 M/S
EXIT VEL.	.00 M/S	8.77 M/S	.02 M/S	8.73 M/S	.04 M/S	2.50 M/S
VOL. FLOW	.12E-03M3/S	.12E103M3/S	.13E-03M3/S	.12E103M3/S	.13E-03M3/S	.12E103M3/S
SOURCE STRENGTH	.10E106		.53E105		.36E105	
BACKGROUND	.40E103		.12E104		.47E105	
CALIBRATION FACTOR	.42E 02		.22E 02		.15E 02	
SO2 FLUX		.400E103 (GM/S)		.400E103 (GM/S)		.550E102 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	862	.534E 04	434	.413E 04	451	.000E100	.947E-04
2	2.7	225.0	0.0	1004	.736E 04	520	.587E 04	602	.000E100	.133E-03
3	2.7	210.0	0.0	1140	.935E 04	746	.850E 04	766	.175E 05	.180E-03
4	2.7	195.0	0.0	1271	.120E 03	700	.114E 03	1043	.675E 05	.248E-03
5	2.7	180.0	0.0	1575	.153E 03	1147	.130E 03	1258	.106E 04	.302E-03
6	2.7	165.0	0.0	1784	.183E 03	1419	.171E 03	1401	.147E 04	.368E-03
7	2.7	150.0	0.0	2033	.210E 03	1657	.202E 03	1702	.201E 04	.440E-03
8	2.7	135.0	0.0	2206	.242E 03	1845	.227E 03	1953	.232E 04	.492E-03
9	2.7	120.0	0.0	2413	.271E 03	2057	.255E 03	2224	.281E 04	.554E-03
10	2.7	105.0	0.0	2625	.301E 03	2225	.282E 03	2432	.318E 04	.613E-03
11	2.7	90.0	0.0	1823	.188E 03	1424	.172E 03	1533	.156E 04	.376E-03
12	2.7	75.0	0.0	2024	.334E 03	2492	.312E 03	2707	.360E 04	.683E-03
13	2.7	60.0	0.0	3077	.344E 03	2716	.341E 03	2979	.417E 04	.747E-03
14	2.7	45.0	0.0	3152	.374E 03	2774	.352E 03	3032	.427E 04	.769E-03
15	2.7	30.0	0.0	3142	.373E 03	2791	.351E 03	3071	.434E 04	.768E-03
16	2.7	15.0	0.0	2943	.345E 03	2573	.323E 03	2804	.385E 04	.707E-03
17	2.7	0.0	0.0	2905	.340E 03	2574	.323E 03	2723	.383E 04	.701E-03
18	2.7	-15.0	0.0	2203	.241E 03	1724	.210E 03	1777	.200E 04	.472E-03
19	2.7	-30.0	0.0	2428	.273E 03	2056	.255E 03	2242	.288E 04	.556E-03
20	2.7	-45.0	0.0	2087	.225E 03	1719	.210E 03	1848	.214E-04	.457E-03
21	2.7	-60.0	0.0	1791	.184E 03	1416	.171E 03	1534	.156E 04	.370E 03
22	2.7	-75.0	0.0	1496	.142E 03	1098	.129E 03	1171	.906E-05	.280E-03
23	2.7	-90.0	0.0	1301	.115E 03	905	.103E 03	987	.571E 05	.224E-03
24	2.7	-105.0	0.0	1161	.953E 04	762	.844E 04	818	.269E-05	.182E-03
25	2.7	-120.0	0.0	1013	.746E 04	602	.634E 04	653	.000E100	.138E-03
26	2.7	-135.0	0.0	853	.522E 04	451	.435E 04	450	.000E100	.957E-04
27	2.7	-150.0	0.0	766	.400E 04	357	.312E 04	376	.000E100	.711E-04
28	2.7	-165.0	0.0	701	.300E 04	372	.331E 04	209	.000E100	.640E-04
29	2.7	-180.0	0.0	621	.194E 04	312	.253E 04	197	.000E100	.449E-04
30	2.7	-195.0	0.0	540	.827E 05	123	.709E 06	0	.000E100	.206E-05
31	2.7	-210.0	0.0	498	.230E 05	09	.000E100	0	.000E100	.238E-05
32	2.7	-225.0	0.0	467	.000E100	60	.000E100	0	.000E100	.000E100
33	2.7	-240.0	0.0	472	.000E100	135	.197E 05	0	.000E100	.197E-05

RUN # 254

385FT,TEST NO. FA385,
100%,IN,BLE254:117,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.12 M/S	12.36 M/S	1.12 M/S	12.36 M/S	1.12 M/S	12.36 M/S
EXIT VEL.	1.01 M/S	17.98 M/S	1.04 M/S	20.32 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.91E+03		.40E+03		.43E+03	
CALIBRATION FACTOR	.42E-02		.22E 02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM 117.36 M		39.12 CM 117.36 M		39.12 CM 117.36 M	
STACK DIAMETER	1.30 CM 4.14 M		1.41 CM 4.23 M		1.32 CM 3.96 M	

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	1073	.219E 04	756	.433E 04	607	.070E-05	.740E-04
11	.9	0.0	0.0	1271	.403E 04	1169	.107E 03	994	.192E 04	.175E-03
17	1.2	0.0	0.0	1041	.203E 04	939	.717E 04	766	.114E-04	.103E-03
24	1.5	0.0	0.0	1405	.769E 04	1630	.179E 03	1282	.290E-04	.285E-03
30	1.8	30.0	0.0	1427	.785E 04	1650	.182E 03	1295	.294E-04	.289E-03
31	1.8	0.0	0.0	1520	.857E 04	1734	.195E 03	1320	.303E-04	.300E-03
32	1.8	-30.0	0.0	1472	.772E 04	1605	.175E 03	1258	.282E-04	.281E-03
38	2.1	30.0	0.0	1527	.825E 04	1703	.190E 03	1287	.292E 04	.302E-03
39	2.1	0.0	0.0	1562	.861E 04	1767	.200E 03	1330	.307E-04	.319E-03
40	2.1	-30.0	0.0	1539	.841E 04	1667	.184E 03	1293	.294E 04	.299E 03
46	2.4	60.0	0.0	1407	.772E 04	1524	.173E 03	1190	.259E-04	.276E-03
47	2.4	30.0	0.0	1551	.857E 04	1729	.194E 03	1293	.294E-04	.309E-03
48	2.4	0.0	0.0	1542	.845E 04	1715	.192E 03	1295	.295E 04	.306E-03
49	2.4	-30.0	0.0	1490	.776E 04	1588	.169E 03	1214	.267E-04	.273E-03
50	2.4	-60.0	0.0	1444	.714E-04	1410	.146E-03	1133	.239E-04	.241E-03
55	2.7	90.0	0.0	1317	.545E 04	1295	.127E 03	941	.181E 04	.199E-03
56	2.7	60.0	0.0	1465	.713E 04	1507	.172E 03	1157	.248E-04	.271E-03
57	2.7	30.0	0.0	1520	.769E 04	1774	.201E 03	1306	.299E-04	.322E-03
58	2.7	0.0	0.0	1503	.750E 04	1765	.199E 03	1319	.303E-04	.320E-03
59	2.7	-30.0	0.0	1571	.804E 04	1655	.182E 03	1290	.293E-04	.300E-03
60	2.7	-60.0	0.0	1463	.740E 04	1432	.148E-03	1144	.243E 04	.246E-03
66	3.0	90.0	0.0	1325	.556E 04	1229	.127E 03	930	.173E-04	.200E-03
67	3.0	45.0	0.0	1519	.815E 04	1670	.185E 03	1205	.264E-04	.293E-03
68	3.0	0.0	0.0	1501	.797E 04	1715	.192E 03	1241	.283E-04	.310E-03
69	3.0	-45.0	0.0	1519	.815E 04	1521	.162E 03	1203	.263E-04	.270E-03
70	3.0	-90.0	0.0	1326	.650E 04	1266	.122E 03	1007	.196E-04	.207E-03
75	3.3	90.0	0.0	1370	.616E 04	1412	.146E-03	979	.186E-04	.226E-03
76	3.3	45.0	0.0	1507	.779E 04	1611	.176E 03	1162	.249E 04	.281E-03
78	3.3	-45.0	0.0	1586	.904E 04	1524	.162E 03	1239	.276E 04	.280E-03
79	3.3	-90.0	0.0	1416	.677E 04	1260	.121E 03	1013	.199E 04	.209E-03
84	3.6	90.0	0.0	1300	.622E 04	1301	.140E 03	921	.191E-04	.222E-03
85	3.6	45.0	0.0	1518	.813E 04	1626	.178E 03	1172	.253E 04	.285E-03
86	3.6	0.0	0.0	1421	.751E 04	1597	.169E-03	1220	.273E-04	.313E-03
87	3.6	-45.0	0.0	1553	.840E 04	1454	.151E 03	1109	.259E 04	.263E-03
88	3.6	-90.0	0.0	1435	.702E-04	1226	.116E 03	1030	.204E 04	.207E-03
94	3.9	45.0	0.0	1526	.824E 04	1627	.178E 03	1166	.251E 04	.284E-03
95	3.9	0.0	0.0	1445	.903E-04	1675	.184E-03	1206	.272E-04	.313E-03
96	3.9	-45.0	0.0	1617	.946E 04	1536	.164E 03	1231	.273E-04	.286E-03
103	4.2	45.0	0.0	1568	.880E-04	1671	.185E 03	1190	.262E-04	.279E-03
104	4.2	0.0	0.0	1652	.922E-04	1667	.184E 03	1266	.285E-04	.312E-03
105	4.2	-45.0	0.0	1645	.903E 04	1522	.163E 03	1261	.283E-04	.290E-03
112	4.5	45.0	0.0	1516	.811E 04	1557	.167E 03	1136	.240E-04	.272E-03
113	4.5	0.0	0.0	1624	.105E 03	1700	.189E 03	1307	.292E 04	.324E-03
121	4.8	45.0	0.0	1589	.900E-04	1603	.184E 03	1209	.265E-04	.301E-03

RUN # 255

305ET,TEST NO. FA305,
100%,IN,DLE255:117,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.60 M/S	18.54 M/S	1.60 M/S	18.54 M/S	1.60 M/S	18.54 M/S
EXIT VEL.	1.81 M/S	12.20 M/S	1.84 M/S	20.32 M/S	1.22 M/S	22.00 M/S
VOL. FLOW	.27E-03M3/S	.27E103M3/S	.29E-03M3/S	.29E103M3/S	.27E-03M3/S	.27E103M3/S
SOURCE STRENGTH	.10E106		.53E105		.36E105	
BACKGROUND	.64E103		.15E103		.13E103	
CALIBRATION FACTOR	.42E-02		.22E 02		.15E 02	
SO2 FLUX		.850E103 (GM/S)		.105E104 (GM/S)		.220E103 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	2283	.219E-03	2275	.328E-03	1275	.631E-04	.611E-03
11	.9	0.0	0.0	2060	.290E-03	2542	.432E-03	2507	.813E-04	.810E-03
16	1.2	15.0	0.0	5320	.625E-03	5934	.895E-03	5031	.168E-03	.169E-02
17	1.2	0.0	0.0	5005	.583E-03	5471	.823E-03	4714	.157E-03	.156E-02
18	1.2	-15.0	0.0	4661	.537E-03	5030	.756E-03	4352	.145E-03	.144E-02
23	1.5	30.0	0.0	5002	.589E-03	6436	.972E-03	5452	.182E-03	.184E-02
24	1.5	0.0	0.0	5526	.653E-03	5999	.905E-03	5457	.182E-03	.174E-02
25	1.5	-30.0	0.0	4688	.541E-03	4904	.735E-03	4317	.143E-03	.142E-02
29	1.8	60.0	0.0	5375	.632E-03	5883	.887E-03	4273	.166E-03	.168E-02
30	1.8	30.0	0.0	5705	.703E-03	6427	.971E-03	5510	.184E-03	.186E-02
31	1.8	0.0	0.0	5436	.667E-03	5991	.903E-03	5121	.173E-03	.174E-02
32	1.8	-30.0	0.0	4667	.530E-03	4705	.717E-03	4239	.140E-03	.140E-02
33	1.8	-60.0	0.0	3421	.371E-03	3321	.490E-03	2750	.967E-04	.958E-03
37	2.1	60.0	0.0	5500	.649E-03	5934	.895E-03	5054	.168E-03	.171E-02
38	2.1	30.0	0.0	5803	.700E-03	6270	.948E-03	5406	.180E-03	.183E-02
39	2.1	0.0	0.0	5469	.645E-03	5870	.884E-03	4907	.166E-03	.166E-02
40	2.1	-30.0	0.0	4607	.540E-03	4745	.711E-03	4139	.139E-03	.139E-02
41	2.1	-60.0	0.0	3715	.411E-03	3614	.538E-03	3200	.105E-03	.105E-02
46	2.4	60.0	0.0	5480	.673E-03	6044	.912E-03	5105	.173E-03	.176E-02
47	2.4	30.0	0.0	5734	.680E-03	5997	.904E-03	5234	.174E-03	.176E-02
48	2.4	0.0	0.0	5272	.612E-03	5560	.837E-03	4723	.157E-03	.158E-02
49	2.4	-30.0	0.0	4452	.509E-03	4411	.659E-03	3917	.129E-03	.130E-02
50	2.4	-60.0	0.0	3566	.391E-03	3307	.500E-03	3042	.996E-04	.991E-03
55	2.7	90.0	0.0	4704	.553E-03	5000	.751E-03	4270	.142E-03	.145E-02
56	2.7	60.0	0.0	5469	.645E-03	5746	.866E-03	4944	.165E-03	.167E-02
57	2.7	30.0	0.0	5502	.650E-03	5765	.868E-03	5017	.167E-03	.170E-02
58	2.7	0.0	0.0	5197	.609E-03	5253	.792E-03	4628	.154E-03	.155E-02
59	2.7	-30.0	0.0	4416	.504E-03	4324	.645E-03	3860	.128E-03	.128E-02
61	2.7	-90.0	0.0	2672	.271E-03	2292	.346E-03	2133	.685E-04	.686E-03
66	3.0	90.0	0.0	4645	.538E-03	4853	.727E-03	4172	.138E-03	.140E-02
67	3.0	45.0	0.0	5340	.628E-03	5477	.827E-03	4704	.159E-03	.161E-02
68	3.0	0.0	0.0	4810	.570E-03	4915	.742E-03	4330	.144E-03	.146E-02
69	3.0	-45.0	0.0	3707	.420E-03	3613	.535E-03	3217	.106E-03	.106E-02
70	3.0	-90.0	0.0	2257	.229E-03	2308	.346E-03	2133	.685E-04	.683E-03
75	3.3	90.0	0.0	4581	.540E-03	4723	.710E-03	4124	.137E-03	.139E-02
76	3.3	45.0	0.0	5162	.604E-03	5275	.793E-03	4591	.152E-03	.155E-02
77	3.3	0.0	0.0	4718	.545E-03	4640	.692E-03	4127	.137E-03	.138E-02
78	3.3	-45.0	0.0	3430	.392E-03	3426	.507E-03	3040	.990E-04	.101E-02
79	3.3	-90.0	0.0	2587	.260E-03	2308	.333E-03	2043	.655E-04	.659E-03
85	3.6	45.0	0.0	4235	.574E-03	4744	.741E-03	4341	.144E-03	.146E-02
86	3.6	0.0	0.0	4346	.495E-03	4245	.633E-03	3762	.124E-03	.125E-02
87	3.6	-45.0	0.0	3536	.307E-03	3311	.489E-03	2972	.972E-04	.973E-03
95	3.9	0.0	0.0	4053	.454E-03	3926	.572E-03	3479	.115E-03	.115E-02
104	4.2	0.0	0.0	4112	.464E-03	3935	.585E-03	3516	.116E-03	.116E-02
113	4.5	0.0	0.0	4023	.452E-03	3807	.565E-03	3413	.112E-03	.113E-02

RUN # 254

305FT,TEST NO.FA254
100%,IN,BLE254:117,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.01 M/S	22.25 M/S	2.01 M/S	22.25 M/S	2.01 M/S	22.25 M/S
EXIT VEL.	1.01 M/S	17.90 M/S	1.04 M/S	20.32 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+04		.53E+05		.34E+05	
BACKGROUND	.00E+03		.30E+03		.33E+03	
CALIBRATION FACTOR	.42E-02		.22E 02		.15E 02	
SO2 FLUX		.050E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	30.12 CM	117.36 M	30.12 CM	117.36 M	30.12 CM	117.36 M
STACK DIAMETER	1.30 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
6	.6	0.0	0.0	4268	.451E-03	4140	.502E-03	3003	.110E-03	.115E-02
11	.9	0.0	0.0	4720	.513E-03	4614	.654E-03	4140	.130E-03	.130E-02
16	1.2	15.0	0.0	8884	.107E-02	7079	.134E-02	8200	.268E-03	.268E-02
17	1.2	0.0	0.0	8463	.103E-02	8771	.130E-02	7966	.260E-03	.258E-02
18	1.2	-15.0	0.0	8026	.241E-03	8155	.120E-02	7425	.242E-03	.240E-02
23	1.5	30.0	0.0	8898	.107E-02	9114	.135E-02	8190	.260E-03	.260E-02
24	1.5	0.0	0.0	8422	.100E-02	8501	.125E-02	7731	.252E-03	.251E-02
25	1.5	-30.0	0.0	7367	.864E-03	7295	.107E-02	6647	.215E-03	.215E-02
29	1.8	60.0	0.0	8978	.108E-02	7043	.134E-02	8170	.267E-03	.268E-02
30	1.8	30.0	0.0	8313	.990E-03	8321	.123E-02	7566	.246E-03	.246E-02
31	1.8	0.0	0.0	6851	.795E-03	6737	.982E-03	6130	.198E-03	.197E-02
32	1.8	-30.0	0.0	5043	.555E-03	4789	.681E-03	4365	.137E-03	.137E-02
33	1.8	-60.0	0.0	8379	.999E-03	8363	.123E-02	7552	.246E-03	.248E-02
37	2.1	60.0	0.0	8650	.104E-02	8677	.128E-02	7966	.257E-03	.257E-02
39	2.1	0.0	0.0	7818	.924E-03	7726	.113E-02	7013	.228E-03	.229E-02
40	2.1	-30.0	0.0	6806	.789E-03	6630	.965E-03	6035	.194E-03	.195E-02
41	2.1	-60.0	0.0	5176	.572E-03	4720	.701E-03	4475	.141E-03	.141E-02
46	2.4	60.0	0.0	8120	.964E-03	8058	.119E-02	7315	.238E-03	.239E-02
47	2.4	30.0	0.0	8264	.983E-03	8199	.121E-02	7414	.241E-03	.243E-02
49	2.4	-30.0	0.0	6138	.700E-03	5002	.650E-03	5371	.172E-03	.172E-02
50	2.4	-60.0	0.0	4710	.511E-03	4403	.621E-03	4020	.126E-03	.126E-02
55	2.7	90.0	0.0	7017	.817E-03	6905	.101E-02	6220	.201E-03	.203E-02
56	2.7	60.0	0.0	7611	.896E-03	7522	.110E-02	6811	.221E-03	.222E-02
57	2.7	30.0	0.0	7640	.900E-03	7509	.110E-02	6830	.222E-03	.222E-02
58	2.7	0.0	0.0	6961	.810E-03	6772	.988E-03	6144	.198E-03	.200E-02
59	2.7	-30.0	0.0	5032	.566E-03	5502	.803E-03	5000	.162E-03	.162E-02
60	2.7	-60.0	0.0	3631	.399E-03	3221	.464E-03	3025	.121E-03	.123E-02
61	2.7	-90.0	0.0	3648	.399E-03	3258	.445E-03	2748	.892E-04	.903E-03
66	3.0	90.0	0.0	6801	.772E-03	6760	.985E-03	6106	.197E-03	.198E-02
67	3.0	45.0	0.0	7295	.854E-03	7175	.105E-02	6492	.210E-03	.211E-02
68	3.0	0.0	0.0	6530	.754E-03	6307	.915E-03	5710	.183E-03	.185E-02
69	3.0	-45.0	0.0	5095	.581E-03	4740	.675E-03	4745	.150E-03	.139E-02
70	3.0	-90.0	0.0	3510	.350E-03	3111	.422E-03	2030	.655E-04	.858E-03
75	3.3	90.0	0.0	6702	.775E-03	6524	.949E-03	5884	.189E-03	.191E-02
76	3.3	45.0	0.0	6801	.788E-03	6582	.958E-03	5942	.192E-03	.194E-02
78	3.3	-45.0	0.0	4603	.507E-03	4300	.607E-03	3915	.122E-03	.124E-02
79	3.3	-90.0	0.0	3245	.315E-03	2065	.304E-03	2586	.769E-04	.776E-03
85	3.6	45.0	0.0	6391	.734E-03	6114	.885E-03	5534	.177E-03	.180E-02
86	3.6	0.0	0.0	5521	.627E-03	5257	.753E-03	4724	.152E-03	.153E-02
87	3.6	-45.0	0.0	4458	.477E-03	4003	.572E-03	3742	.116E-03	.116E-02
95	3.9	0.0	0.0	4250	.542E-03	4620	.655E-03	4219	.132E-03	.133E-02
104	4.2	0.0	0.0	4204	.536E-03	4537	.642E-03	4132	.130E-03	.131E-02
113	4.5	0.0	0.0	4753	.516E-03	4378	.618E-03	3906	.125E-03	.126E-02

RUN # 257

385ET,TEST NO.FA705,
100%,IN,BLE257:17,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	2.34 M/S	25.96 M/S	2.34 M/S	25.96 M/S	2.34 M/S	25.96 M/S
EXIT VEL.	1.01 M/S	12.00 M/S	1.04 M/S	20.39 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.22E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.32E+05	
BACKGROUND	.20E+03		.45E+03		.32E+03	
CALIBRATION FACTOR	.42E-02		.22E 02		.15E-02	
CO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
[illegible]	[illegible]	0.0	0.0	5459	.595E 03	5016	.703E-03	4745	.140E-03	.145E-02
11	[illegible]	0.0	0.0	5179	.559E 03	4774	.665E 03	4432	.137E 03	.134E-02
16	1.2	15.0	0.0	9278	.120E 02	9776	.144E 02	9025	.263E-03	.202E-02
17	1.2	0.0	0.0	9411	.112E 02	9168	.134E 02	8530	.277E 03	.274E-02
18	1.2	-15.0	0.0	8925	.106E 02	8618	.126E 02	8005	.259E 03	.257E-02
23	1.5	30.0	0.0	9833	.118E 02	9667	.142E-02	8882	.289E 03	.288E-02
24	1.5	0.0	0.0	9526	.114E 02	9291	.136E 02	8573	.278E 03	.277E 02
25	1.5	-30.0	0.0	8053	.940E 03	7667	.111E 02	7161	.230E 03	.228E-02
29	1.8	60.0	0.0	9187	.109E 02	9003	.132E 02	8253	.267E 03	.267E-02
30	1.8	30.0	0.0	9720	.116E 02	9509	.137E 02	8747	.284E-03	.284E-02
31	1.8	0.0	0.0	9174	.109E 02	8974	.130E 02	8192	.265E 03	.265E 02
32	1.8	-30.0	0.0	7524	.870E 03	7155	.103E 02	6608	.214E-03	.212E-02
33	1.8	-60.0	0.0	5561	.609E 03	5072	.711E 03	4745	.140E 03	.147E 02
37	2.1	60.0	0.0	8782	.104E-02	8536	.124E 02	7830	.253E 03	.253E-02
38	2.1	30.0	0.0	9119	.108E 02	8866	.130E 02	8180	.265E 03	.264E-02
39	2.1	0.0	0.0	8504	.100E-02	8178	.119E 02	7574	.244E 03	.243E-02
40	2.1	-30.0	0.0	7459	.861E 03	7055	.102E 02	6537	.209E 03	.205E-02
41	2.1	-60.0	0.0	5562	.609E-03	5108	.717E 03	4731	.140E 03	.147E-02
46	2.4	60.0	0.0	8547	.101E 02	8309	.121E 02	7726	.246E 03	.246E 02
47	2.4	30.0	0.0	8504	.101E 02	8238	.120E 02	7622	.242E 03	.245E-02
49	2.4	-30.0	0.0	6707	.761E 03	6285	.898E 03	5828	.185E-03	.184E 02
50	2.4	-60.0	0.0	5268	.570E 03	4770	.666E 03	4455	.130E-03	.138E-02
55	2.7	90.0	0.0	7486	.865E 03	7228	.104E 02	6606	.211E-03	.212E 02
56	2.7	60.0	0.0	8703	.103E 02	7798	.113E 02	7149	.230E 03	.232E-02
57	2.7	30.0	0.0	7942	.928E 03	7629	.110E 02	7051	.226E-03	.226E-02
58	2.7	0.0	0.0	7356	.853E 03	7024	.101E 02	6481	.207E 03	.207E-02
59	2.7	-30.0	0.0	6344	.713E 03	5938	.845E 03	5488	.174E 03	.173E 02
60	2.7	-60.0	0.0	5104	.555E-03	4712	.656E 03	4371	.135E 03	.135E-02
61	2.7	-90.0	0.0	3942	.394E 03	3452	.462E 03	3209	.950E 04	.951E-03
65	3.0	90.0	0.0	7277	.840E-03	7026	.101E 02	6403	.204E-03	.206E-02
67	3.0	45.0	0.0	7417	.855E 03	7116	.103E 02	6561	.210E 03	.209E-02
68	3.0	0.0	0.0	6777	.777E 03	6502	.944E 03	6060	.173E-03	.173E-02
69	3.0	-45.0	0.0	5533	.605E 03	5081	.713E 03	4690	.146E-03	.146E-02
70	3.0	-90.0	0.0	3981	.399E-03	3491	.468E-03	3234	.966E-04	.963E-03
75	3.3	90.0	0.0	6879	.784E 03	6584	.944E 03	6010	.191E 03	.192E 02
76	3.3	45.0	0.0	7097	.813E 03	6751	.970E 03	6183	.197E 03	.198E-02
77	3.3	0.0	0.0	6283	.705E 03	5855	.832E 03	5372	.169E 03	.171E-02
79	3.3	-45.0	0.0	5198	.561E 03	4739	.660E 03	4320	.135E 03	.136E-02
79	3.3	-90.0	0.0	3753	.369E 03	3240	.432E 03	3024	.895E-04	.890E-03
85	3.6	45.0	0.0	6641	.752E 03	6232	.890E 03	5751	.182E-03	.182E-02
86	3.6	0.0	0.0	5912	.655E-03	5500	.777E 03	5067	.159E-03	.159E-02
87	3.6	-45.0	0.0	4744	.500E 03	4312	.594E 03	3977	.122E 03	.122E-02
95	3.9	0.0	0.0	5312	.577E-03	4702	.685E 03	4545	.141E-03	.140E-02
104	4.2	0.0	0.0	5265	.570E-03	4037	.575E 03	4443	.138E-03	.138E-02
113	4.5	0.0	0.0	5076	.544E 03	4633	.644E-03	4277	.132E 03	.132E-02

RUN # 250

250FT,TEST NO. EM250,
40%,IN,BLE250::17,190

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S
EXIT VEL.	1.03 M/S	11.22 M/S	.71 M/S	9.67 M/S	.94 M/S	9.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.33E+05	
BACKGROUND	.59E+03		.89E+02		.14E+03	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	1678	.158E-03	2128	.273E-03	2241	.320E-04	.470E-03
3	2.7	210.0	0.0	2685	.299E-03	3347	.438E-03	3524	.622E-04	.797E-03
4	2.7	195.0	0.0	3843	.447E-03	4802	.641E-03	5100	.712E-04	.120E-02
5	2.7	180.0	0.0	4609	.573E-03	5709	.752E-03	5826	.106E-03	.143E-02
6	2.7	165.0	0.0	5229	.662E-03	6286	.829E-03	6428	.116E-03	.161E-02
7	2.7	150.0	0.0	5805	.744E-03	6770	.896E-03	6882	.124E-03	.177E-02
8	2.7	135.0	0.0	6284	.812E-03	7083	.936E-03	7045	.127E-03	.187E-02
9	2.7	120.0	0.0	6580	.854E-03	7172	.951E-03	7066	.127E-03	.193E-02
10	2.7	105.0	0.0	6704	.900E-03	7172	.948E-03	6862	.124E-03	.197E-02
11	2.7	90.0	0.0	5560	.709E-03	5470	.720E-03	5207	.931E-04	.152E-02
12	2.7	75.0	0.0	7013	.916E-03	6755	.892E-03	6314	.113E-03	.192E-02
13	2.7	60.0	0.0	6883	.899E-03	6435	.849E-03	5950	.107E-03	.185E-02
14	2.7	45.0	0.0	6684	.862E-03	5259	.705E-03	5345	.960E-04	.175E-02
15	2.7	30.0	0.0	6457	.837E-03	5538	.729E-03	4766	.887E-04	.145E-02
16	2.7	15.0	0.0	5755	.765E-03	4009	.532E-03	4211	.747E-04	.147E-02
17	2.7	0.0	0.0	5606	.727E-03	4370	.575E-03	3836	.680E-04	.137E-02
18	2.7	-15.0	0.0	5219	.660E-03	3621	.473E-03	2735	.514E-04	.118E-02
20	2.7	-45.0	0.0	4241	.521E-03	2857	.370E-03	2341	.402E-04	.932E-03
21	2.7	-60.0	0.0	3620	.442E-03	2367	.305E-03	1942	.332E-04	.780E-03
22	2.7	-75.0	0.0	3089	.356E-03	1862	.237E-03	1485	.248E-04	.618E-03
23	2.7	-90.0	0.0	2721	.304E-03	1603	.203E-03	1273	.207E-04	.527E-03
24	2.7	-105.0	0.0	2303	.244E-03	1273	.158E-03	996	.158E-04	.418E-03
25	2.7	-120.0	0.0	1995	.200E-03	1043	.128E-03	831	.128E-04	.341E-03
26	2.7	-135.0	0.0	1669	.154E-03	814	.970E-04	695	.917E-05	.260E-03
27	2.7	-150.0	0.0	1376	.112E-03	604	.689E-04	472	.617E-05	.187E-03
28	2.7	-165.0	0.0	1140	.703E-04	448	.480E-04	350	.373E-05	.130E-03
29	2.7	-180.0	0.0	940	.479E-04	315	.302E-04	264	.235E-05	.824E-04
30	2.7	-195.0	0.0	850	.367E-04	226	.237E-04	214	.143E-05	.621E-04
31	2.7	-210.0	0.0	764	.247E-04	202	.151E-04	182	.845E-06	.406E-04
32	2.7	-225.0	0.0	643	.742E-05	127	.500E-05	126	.000E+00	.125E-04
33	2.7	-240.0	0.0	648	.813E-05	115	.348E-05	112	.000E+00	.116E-04

RUN # 250

250FT;TEST NO.EF250;
100%;IN;PLE250;;17;100

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S
EXIT VEL.	2.31 M/S	25.57 M/S	2.04 M/S	22.57 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+04		.53E+05		.36E+05	
BACKGROUND	.74E+03		.31E+03		.20E+03	
CALIBRATION FACTOR	.41E 02		.22E 02		.15E 02	
CO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	2.7	240.0	0.0	1141	.510E 04	1211	.133E-03	741	.214E-04	.205E-03
2	2.7	225.0	0.0	1289	.622E 04	1473	.172E-03	1130	.276E-04	.269E-03
3	2.7	210.0	0.0	1508	.777E 04	1834	.225E-03	1415	.362E-04	.360E-03
4	2.7	195.0	0.0	2132	.178E 03	2807	.329E-03	2102	.613E-04	.608E-03
5	2.7	180.0	0.0	2621	.240E 03	3572	.403E-03	2749	.804E-04	.803E-03
6	2.7	165.0	0.0	3232	.310E 03	4463	.514E-03	3370	.101E-03	.103E-02
7	2.7	150.0	0.0	4021	.533E 03	6266	.880E-03	4610	.141E-03	.154E-02
8	2.7	135.0	0.0	5355	.587E 03	6400	.701E-03	4547	.139E-03	.163E-02
9	2.7	120.0	0.0	4915	.533E 03	5614	.784E-03	3948	.120E-03	.144E-02
10	2.7	105.0	0.0	6139	.687E 03	6667	.940E-03	4459	.136E-03	.176E-02
11	2.7	90.0	0.0	6310	.711E 03	6488	.904E-03	4168	.127E-03	.174E-02
12	2.7	75.0	0.0	6411	.724E 03	6033	.846E-03	3760	.114E-03	.168E-02
13	2.7	60.0	0.0	6251	.703E 03	5535	.774E-03	3301	.101E-03	.158E-02
14	2.7	45.0	0.0	5750	.637E 03	4726	.663E-03	2775	.813E-04	.130E-02
15	2.7	30.0	0.0	5332	.584E 03	4224	.592E-03	2309	.687E-04	.123E-02
16	2.7	15.0	0.0	4787	.516E 03	3321	.455E-03	1757	.481E-04	.102E-02
17	2.7	0.0	0.0	4326	.458E 03	2936	.388E-03	1537	.402E-04	.884E-03
18	2.7	-15.0	0.0	3807	.401E 03	2417	.311E-03	1244	.313E-04	.744E-03
19	2.7	-30.0	0.0	3512	.364E 03	2083	.262E-03	1053	.251E-04	.641E-03
20	2.7	-45.0	0.0	2955	.295E 03	1758	.211E-03	950	.195E-04	.512E-03
21	2.7	-60.0	0.0	2582	.249E 03	1477	.173E-03	705	.137E-04	.421E-03
22	2.7	-75.0	0.0	2358	.235E 03	1266	.141E-03	580	.972E-05	.347E-03
23	2.7	-90.0	0.0	2220	.176E 03	1056	.110E-03	511	.741E-05	.276E-03
24	2.7	-105.0	0.0	1702	.150E 03	879	.837E-04	452	.540E-05	.210E-03
25	2.7	-120.0	0.0	1689	.121E 03	750	.650E-04	414	.431E-05	.167E-03
26	2.7	-135.0	0.0	1503	.972E 04	617	.450E-04	362	.277E-05	.115E-03
27	2.7	-150.0	0.0	1240	.673E 04	521	.300E-04	335	.166E-05	.772E-04
28	2.7	-165.0	0.0	1022	.454E 04	469	.231E-04	320	.117E-05	.577E-04
29	2.7	-180.0	0.0	1003	.334E-04	426	.167E-04	313	.946E-06	.415E-04
30	2.7	-195.0	0.0	928	.239E-04	383	.104E-04	298	.457E-06	.243E-04
31	2.7	-210.0	0.0	847	.135E-04	385	.106E-04	310	.849E-06	.237E-04
32	2.7	-225.0	0.0	837	.123E-04					
33	2.7	-240.0	0.0							

RUN # 260

250FT,TEST NO. EF250,
100%,IN,BLE260:117,270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S
EXIT VEL.	2.31 M/S	25.57 M/S	2.04 M/S	22.61 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.00E+00		.00E+00		.32E+02	
CALIBRATION FACTOR	.41E-02		.22E-02		.15E-02	
CO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	39.01 CM 117.03 M		39.12 CM 117.36 M		25.40 CM 76.20 M	
STACK DIAMETER	1.22 CM 3.66 M		1.34 CM 4.02 M		1.32 CM 3.96 M	

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	.3	15.0	0.0	0	.000E+00	0	.000E+00	147	.380E-05	.380E-05
2	.3	0.0	0.0	0	.000E+00	0	.000E+00	540	.170E-04	.170E-04
4	.6	30.0	0.0	0	.000E+00	0	.000E+00	842	.260E-04	.260E-04
5	.6	15.0	0.0	0	.000E+00	0	.000E+00	1152	.370E-04	.370E-04
6	.6	0.0	0.0	0	.000E+00	0	.000E+00	1455	.470E-04	.470E-04
7	.6	-15.0	0.0	0	.000E+00	0	.000E+00	1294	.417E-04	.417E-04
9	.9	30.0	0.0	0	.000E+00	0	.000E+00	2152	.700E-04	.700E-04
10	.9	15.0	0.0	0	.000E+00	0	.000E+00	2445	.797E-04	.797E-04
11	.9	0.0	0.0	0	.000E+00	0	.000E+00	2389	.779E-04	.779E-04
12	.9	-15.0	0.0	0	.000E+00	0	.000E+00	2470	.805E-04	.805E-04
13	.9	-30.0	0.0	0	.000E+00	0	.000E+00	2239	.729E-04	.729E-04
14	1.2	60.0	0.0	0	.000E+00	0	.000E+00	2265	.738E-04	.738E-04
16	1.2	15.0	0.0	0	.000E+00	0	.000E+00	2916	.953E-04	.953E-04
17	1.2	0.0	0.0	0	.000E+00	0	.000E+00	3151	.103E-03	.103E-03
18	1.2	-15.0	0.0	0	.000E+00	0	.000E+00	3140	.103E-03	.103E-03
21	1.5	90.0	0.0	0	.000E+00	0	.000E+00	1894	.615E-04	.615E-04
23	1.5	30.0	0.0	0	.000E+00	0	.000E+00	3404	.110E-03	.110E-03
24	1.5	0.0	0.0	0	.000E+00	0	.000E+00	3908	.128E-03	.128E-03
25	1.5	-30.0	0.0	0	.000E+00	0	.000E+00	3501	.115E-03	.115E-03
28	1.8	90.0	0.0	0	.000E+00	0	.000E+00	2301	.750E-04	.750E-04
29	1.8	60.0	0.0	0	.000E+00	0	.000E+00	3389	.111E-03	.111E-03
30	1.8	30.0	0.0	0	.000E+00	0	.000E+00	4016	.132E-03	.132E-03
31	1.8	0.0	0.0	0	.000E+00	0	.000E+00	4404	.144E-03	.144E-03
35	2.1	120.0	0.0	0	.000E+00	0	.000E+00	1497	.484E-04	.484E-04
36	2.1	90.0	0.0	0	.000E+00	0	.000E+00	2410	.786E-04	.786E-04
37	2.1	60.0	0.0	0	.000E+00	0	.000E+00	3628	.119E-03	.119E-03
38	2.1	30.0	0.0	0	.000E+00	0	.000E+00	4080	.134E-03	.134E-03
39	2.1	0.0	0.0	0	.000E+00	0	.000E+00	4257	.139E-03	.139E-03
40	2.1	-30.0	0.0	0	.000E+00	0	.000E+00	3724	.122E-03	.122E-03
41	2.1	-60.0	0.0	0	.000E+00	0	.000E+00	3055	.999E-04	.999E-04
44	2.4	120.0	0.0	0	.000E+00	0	.000E+00	1963	.638E-04	.638E-04
45	2.4	90.0	0.0	0	.000E+00	0	.000E+00	3096	.101E-03	.101E-03
46	2.4	60.0	0.0	0	.000E+00	0	.000E+00	4059	.133E-03	.133E-03
47	2.4	30.0	0.0	0	.000E+00	0	.000E+00	4270	.140E-03	.140E-03
48	2.4	0.0	0.0	0	.000E+00	0	.000E+00	4180	.137E-03	.137E-03
54	2.7	120.0	0.0	0	.000E+00	0	.000E+00	2222	.722E-04	.722E-04
55	2.7	90.0	0.0	0	.000E+00	0	.000E+00	3247	.106E-03	.106E-03
56	2.7	60.0	0.0	0	.000E+00	0	.000E+00	4016	.132E-03	.132E-03
57	2.7	30.0	0.0	0	.000E+00	0	.000E+00	4275	.140E-03	.140E-03
58	2.7	0.0	0.0	0	.000E+00	0	.000E+00	4072	.133E-03	.133E-03
59	2.7	-30.0	0.0	0	.000E+00	0	.000E+00	3761	.123E-03	.123E-03
60	2.7	-60.0	0.0	0	.000E+00	0	.000E+00	3275	.107E-03	.107E-03

RUN # 261

250FT,TEST NO. EM250,
40%,IN,DLE261::17;270

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S
EXIT VEL.	2.31 M/S	11.22 M/S	2.04 M/S	9.67 M/S	.94 M/S	2.50 M/S
VOL. FLOW	.27E-03M3/S	.12E+03M3/S	.22E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+04		.53E+05		.32E+05	
BACKGROUND	.43E+03		.15E+02		.13E+03	
CALIBRATION FACTOR	.41E 02		.22E 02		.15E 02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	29.12 CM	87.36 M	39.12 CM	117.36 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	.3	15.0	0.0	0	.000E+00	0	.000E+00	219	.167E-05	.167E-05
2	.3	0.0	0.0	0	.000E+00	0	.000E+00	2825	.501E-04	.501E-04
3	.6	30.0	0.0	0	.000E+00	0	.000E+00	6558	.127E-03	.127E-03
4	.6	15.0	0.0	0	.000E+00	0	.000E+00	7353	.172E-03	.172E-03
5	.6	0.0	0.0	0	.000E+00	0	.000E+00	9883	.181E-03	.181E-03
6	.6	-15.0	0.0	0	.000E+00	0	.000E+00	10035	.184E-03	.184E-03
7	.9	15.0	0.0	0	.000E+00	0	.000E+00	11033	.203E-03	.203E-03
8	.9	0.0	0.0	0	.000E+00	0	.000E+00	11570	.213E-03	.213E-03
9	.9	-15.0	0.0	0	.000E+00	0	.000E+00	11161	.205E-03	.205E-03
14	1.2	30.0	0.0	0	.000E+00	0	.000E+00	8791	.161E-03	.161E-03
15	1.2	30.0	0.0	0	.000E+00	0	.000E+00	10534	.193E-03	.193E-03
16	1.2	15.0	0.0	0	.000E+00	0	.000E+00	9966	.183E-03	.183E-03
17	1.2	0.0	0.0	0	.000E+00	0	.000E+00	10273	.189E-03	.189E-03
18	1.2	-15.0	0.0	0	.000E+00	0	.000E+00	10510	.193E-03	.193E-03
21	1.5	90.0	0.0	0	.000E+00	0	.000E+00	6370	.117E-03	.117E-03
22	1.5	60.0	0.0	0	.000E+00	0	.000E+00	8436	.155E-03	.155E-03
23	1.5	30.0	0.0	0	.000E+00	0	.000E+00	9683	.178E-03	.178E-03
24	1.5	0.0	0.0	0	.000E+00	0	.000E+00	10282	.189E-03	.189E-03
25	1.5	-30.0	0.0	0	.000E+00	0	.000E+00	9011	.165E-03	.165E-03
28	1.8	90.0	0.0	0	.000E+00	0	.000E+00	6506	.119E-03	.119E-03
29	1.8	60.0	0.0	0	.000E+00	0	.000E+00	8026	.148E-03	.148E-03
30	1.8	30.0	0.0	0	.000E+00	0	.000E+00	8780	.161E-03	.161E-03
31	1.8	0.0	0.0	0	.000E+00	0	.000E+00	8857	.162E-03	.162E-03
32	1.8	-30.0	0.0	0	.000E+00	0	.000E+00	7972	.146E-03	.146E-03
35	2.1	120.0	0.0	0	.000E+00	0	.000E+00	4336	.792E-04	.792E-04
36	2.1	90.0	0.0	0	.000E+00	0	.000E+00	5703	.104E-03	.104E-03
37	2.1	60.0	0.0	0	.000E+00	0	.000E+00	7349	.134E-03	.134E-03
38	2.1	30.0	0.0	0	.000E+00	0	.000E+00	7680	.140E-03	.140E-03
39	2.1	0.0	0.0	0	.000E+00	0	.000E+00	8003	.146E-03	.146E-03
40	2.1	-30.0	0.0	0	.000E+00	0	.000E+00	7028	.128E-03	.128E-03
41	2.1	-60.0	0.0	0	.000E+00	0	.000E+00	5704	.104E-03	.104E-03
44	2.4	120.0	0.0	0	.000E+00	0	.000E+00	4706	.851E-04	.851E-04
45	2.4	90.0	0.0	0	.000E+00	0	.000E+00	6042	.110E-03	.110E-03
46	2.4	60.0	0.0	0	.000E+00	0	.000E+00	6940	.127E-03	.127E-03
47	2.4	30.0	0.0	0	.000E+00	0	.000E+00	7459	.136E-03	.136E-03
54	2.7	120.0	0.0	0	.000E+00	0	.000E+00	4660	.844E-04	.844E-04
55	2.7	90.0	0.0	0	.000E+00	0	.000E+00	5452	.990E-04	.990E-04
56	2.7	60.0	0.0	0	.000E+00	0	.000E+00	6202	.113E-03	.113E-03
57	2.7	30.0	0.0	0	.000E+00	0	.000E+00	6710	.122E-03	.122E-03
58	2.7	0.0	0.0	0	.000E+00	0	.000E+00	6121	.111E-03	.111E-03
60	2.7	-60.0	0.0	0	.000E+00	0	.000E+00	4777	.864E-04	.864E-04

RUN # 262

250FT,TEST NO. VM250;
40%,IN,DLE262:17,222

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S
EXIT VEL.	1.03 M/S	11.22 M/S	.91 M/S	9.67 M/S	.84 M/S	9.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+04		.53E+05		.34E+05	
BACKGROUND	.43E+02		.17E+04		.45E+02	
CALIBRATION FACTOR	.40E-02		.21E 02		.15E 02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
58	.96	0.0	6.0	17741	.241E 02	17773	.233E 02	14205	.252E-03	.500E-02
59	.96	0.0	12.0	17226	.234E 02	17347	.227E 02	14223	.250E-03	.487E-02
61	.96	0.0	24.0	15430	.211E-02	15570	.204E 02	14233	.250E-03	.441E-02
62	.96	0.0	30.0	15207	.207E 02	15015	.196E 02	13922	.252E-03	.428E-02
63	.96	0.0	36.0	7335	.944E-03	6754	.090E-03	8501	.117E-03	.176E-02
64	.96	0.0	42.0	13830	.186E 02	13331	.174E 02	12010	.232E-03	.383E-02
65	.96	0.0	48.0	12000	.171E-02	12219	.159E-02	11021	.214E-03	.352E-02
67	.96	0.0	60.0	11374	.151E 02	10632	.138E 02	10796	.195E-03	.309E-02
69	.96	0.0	72.0	9971	.132E-02	8848	.115E 02	9317	.168E-03	.263E-02
73	.96	0.0	96.0	6109	.702E-03	4692	.599E-03	4844	.871E-04	.147E-02
75	.96	0.0	108.0	4556	.552E-03	3242	.407E 03	3341	.599E-04	.102E-02
77	.96	0.0	120.0	3336	.380E-03	2130	.266E 03	2227	.394E 04	.680E-03
79	.96	0.0	132.0	2433	.253E-03	1309	.163E 03	1590	.244E-04	.440E-03
81	.96	0.0	144.0	1691	.140E-03	883	.950E-04	938	.162E-04	.259E-03
82	.96	0.0	150.0	1400	.120E 03	709	.016E 04	768	.131E 04	.214E-03
84	.96	0.0	162.0	1106	.657E 04	534	.405E-04	554	.924E-05	.123E-03
86	.96	0.0	174.0	888	.350E 04	326	.213E 04	362	.576E 05	.620E-04
88	.96	0.0	186.0	722	.116E-04	200	.569E-05	156	.202E-05	.173E-04
90	.96	0.0	198.0	701	.060E 05	186	.270E 05	75	.545E-06	.119E-04
92	.96	0.0	210.0	210	.000E+00	173	.106E 05	73	.500E-06	.157E-05
94	.96	0.0	222.0	222	.000E+00	661	.656E 04	70	.454E-06	.661E-04
96	.96	0.0	234.0	663	.747E-05	104	.251E-05	72	.470E-06	.105E-04
98	.96	0.0	246.0	685	.435E 05	171	.724E 06	73	.500E-06	.765E-05
100	.96	0.0	258.0	672	.451E 05	159	.000E+00	70	.454E-06	.497E-05

RUN # 248

250FT, TEST NO. EX250,
40%,IN,DLE248::17,198

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S	1.33 M/S	14.04 M/S
EXIT VEL.	1.03 M/S	11.22 M/S	.91 M/S	9.67 M/S	.94 M/S	9.58 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.47E+03		.49E+02		.66E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.15E-02	
SO2 FLUX	.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)	
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	.3	15.0	0.0	5506	.764E-03	20073	.280E-02	14254	.273E-03	.304E-02
2	.3	0.0	0.0	5336	.726E-03	15602	.217E-02	9829	.188E-03	.309E-02
3	.3	-15.0	0.0	3721	.405E-03	8295	.115E-02	4601	.872E-04	.172E-02
4	.6	30.0	0.0	12915	.180E-02	23531	.328E-02	17980	.383E-03	.552E-02
5	.6	15.0	0.0	14270	.206E-02	21353	.278E-02	16256	.311E-03	.535E-02
6	.6	0.0	0.0	13927	.201E-02	18115	.253E-02	12301	.235E-03	.477E-02
8	.6	-30.0	0.0	10397	.140E-02	7910	.130E-02	5842	.111E-03	.277E-02
9	.9	30.0	0.0	14607	.211E-02	18094	.252E-02	15254	.292E-03	.493E-02
10	.9	15.0	0.0	14841	.214E-02	16406	.229E-02	12784	.244E-03	.468E-02
11	.9	0.0	0.0	14620	.211E-02	14127	.197E-02	9890	.189E-03	.427E-02
12	.9	-15.0	0.0	13268	.191E-02	11522	.160E-02	7402	.143E-03	.356E-02
14	1.2	60.0	0.0	12042	.173E-02	14545	.203E-02	13527	.259E-03	.401E-02
15	1.2	30.0	0.0	13520	.195E-02	13761	.192E-02	11402	.218E-03	.408E-02
16	1.2	15.0	0.0	13486	.194E-02	12684	.177E-02	9841	.188E-03	.390E-02
17	1.2	0.0	0.0	13185	.190E-02	11212	.156E-02	8085	.154E-03	.361E-02
18	1.2	-15.0	0.0	11548	.165E-02	8078	.124E-02	6084	.116E-03	.301E-02
19	1.2	-30.0	0.0	10002	.142E-02	7147	.991E-03	4572	.871E-04	.250E-02
20	1.2	-60.0	0.0	6101	.841E-03	3829	.526E-03	2207	.411E-04	.141E-02
53	2.7	150.0	0.0	5214	.700E-03	6071	.840E-03	6303	.120E-03	.167E-02
54	2.7	120.0	0.0	6269	.866E-03	6647	.921E-03	6583	.125E-03	.191E-02
55	2.7	90.0	0.0	7021	.970E-03	6824	.946E-03	6406	.122E-03	.205E-02
56	2.7	60.0	0.0	7023	.970E-03	6210	.860E-03	5518	.105E-03	.194E-02
57	2.7	30.0	0.0	6619	.910E-03	5279	.729E-03	4503	.853E-04	.172E-02
58	2.7	0.0	0.0	5927	.815E-03	4103	.565E-03	3304	.622E-04	.145E-02
59	2.7	-30.0	0.0	4409	.600E-03	2958	.404E-03	2275	.425E-04	.105E-02
60	2.7	-60.0	0.0	3582	.465E-03	2170	.294E-03	1592	.295E-04	.788E-03
61	2.7	-90.0	0.0	2600	.331E-03	1421	.192E-03	1035	.194E-04	.549E-03
62	2.7	-120.0	0.0	1920	.210E-03	972	.124E-03	648	.112E-04	.355E-03
63	2.7	-150.0	0.0	1350	.131E-03	609	.756E-04	400	.642E-05	.214E-03

RUN # 264

305FT, TEST NO. VM305,
40%,IN,DLE264::17,200

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.42 M/S	14.90 M/S	1.42 M/S	14.90 M/S	1.42 M/S	14.90 M/S
EXIT VEL.	.00 M/S	0.77 M/S	.02 M/S	0.73 M/S	.24 M/S	2.50 M/S
VOL. FLOW	.12E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S	.13E-03M3/S	.12E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.53E+03		.20E+02		.24E+02	
CALIBRATION FACTOR	.40E-02		.21E 02		.15E 02	
SO2 FLUX		.400E+03 (GM/S)		.400E+03 (GM/S)		.550E+02 (GM/S)
STACK HEIGHT	39.12 CM	117.36 M	39.12 CM	117.36 M	39.12 CM	117.36 M
STACK DIAMETER	1.38 CM	4.14 M	1.41 CM	4.23 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
57	.96	0.0	0.0	3505	.420E-03	3370	.434E-03	3116	.549E-04	.910E-03
59	.96	0.0	12.0	4030	.495E-03	3940	.510E-03	3666	.649E-04	.107E-02
60	.96	0.0	18.0	4247	.532E-03	4241	.552E-03	3954	.701E-04	.116E-02
61	.96	0.0	24.0	4068	.513E-03	4000	.523E-03	4435	.794E-04	.132E-02
63	.96	0.0	36.0	4418	.549E-03	4280	.555E-03	4010	.712E-04	.118E-02
65	.96	0.0	48.0	6927	.903E-03	6704	.902E-03	6481	.116E-03	.192E-02
67	.96	0.0	60.0	8236	.109E-02	8209	.107E-02	7806	.140E-03	.230E-02
69	.96	0.0	72.0	9508	.128E-02	9531	.125E-02	9151	.165E-03	.269E-02
71	.96	0.0	84.0	10024	.134E-02	9978	.131E-02	9634	.173E-03	.282E-02
73	.96	0.0	96.0	11851	.160E-02	11652	.153E-02	11412	.206E-03	.333E-02
74	.96	0.0	102.0	11223	.142E-02	11741	.154E-02	11425	.207E-03	.337E-02
75	.96	0.0	108.0	12253	.165E-02	12102	.159E-02	11836	.213E-03	.346E-02
76	.96	0.0	114.0	12112	.163E-02	11841	.156E-02	11659	.210E-03	.340E-02
77	.96	0.0	120.0	11570	.156E-02	11302	.148E-02	11152	.201E-03	.324E-02
79	.96	0.0	132.0	10307	.139E-02	10016	.131E-02	9763	.176E-03	.286E-02
81	.96	0.0	144.0	8015	.117E-02	8427	.110E-02	8416	.151E-03	.242E-02
82	.96	0.0	150.0	7631	.100E-02	7234	.946E-03	7106	.129E-03	.208E-02
84	.96	0.0	162.0	6040	.770E-03	5505	.717E-03	5669	.101E-03	.160E-02
86	.96	0.0	174.0	4140	.510E-03	3526	.455E-03	3707	.656E-04	.103E-02
88	.96	0.0	186.0	2071	.331E-03	2312	.294E-03	2504	.430E-04	.669E-03
90	.96	0.0	198.0	1272	.204E-03	1443	.172E-03	1579	.270E-04	.410E-03
92	.96	0.0	210.0	1291	.108E-03	760	.887E-04	866	.140E-04	.211E-03
94	.96	0.0	222.0	865	.480E-04	393	.401E-04	467	.670E-05	.949E-04
96	.96	0.0	234.0	653	.181E-04	215	.165E-04	222	.233E-05	.369E-04
98	.96	0.0	249.0	593	.959E-05	137	.622E-05	102	.124E-05	.171E-04
100	.96	0.0	267.0	534	.127E-05	104	.212E-05	0	.000E+00	.339E-05

RUN # 265

250FT, TEST NO. VE250;
100%,IN,BLE225::17:20

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S
EXIT VEL.	2.31 M/S	25.57 M/S	2.04 M/S	22.57 M/S	1.99 M/S	22.00 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.34E+05	
BACKGROUND	.48E+03		.84E+02		.93E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
57	.96	0.0	0.0	16159	.209E 02	10183	.154E 02	5018	.140E-03	.382E-02
59	.96	0.0	6.0	16420	.213E 02	10584	.162E 02	5230	.176E-03	.393E-02
61	.96	0.0	12.0	16882	.219E 02	11076	.170E 02	5661	.190E-03	.408E-02
63	.96	0.0	24.0	18053	.235E 02	12165	.187E 02	6544	.220E-03	.444E-02
65	.96	0.0	36.0	21086	.275E 02	14370	.221E 02	8130	.274E-03	.524E-02
67	.96	0.0	60.0	27932	.367E 02	20265	.312E 02	12385	.420E-03	.721E-02
69	.96	0.0	72.0	29224	.384E 02	23128	.357E 02	15823	.537E-03	.774E-02
71	.96	0.0	84.0	30029	.395E 02	25911	.400E 02	17805	.605E-03	.855E-02
73	.96	0.0	90.0	29701	.390E 02	26480	.409E 02	18323	.623E-03	.864E-02
75	.96	0.0	96.0	29606	.389E 02	26802	.413E 02	18537	.630E-03	.865E-02
76	.96	0.0	102.0	29028	.381E 02	26707	.415E 02	18450	.627E-03	.846E-02
78	.96	0.0	108.0	25804	.338E 02	24075	.402E 02	17380	.592E-03	.806E-02
77	.96	0.0	120.0	22017	.289E 02	21770	.385E-02	20019	.680E-03	.752E-02
79	.96	0.0	132.0	19220	.252E 02	22327	.344E 02	17472	.593E-03	.659E-02
81	.96	0.0	144.0	15275	.199E 02	17901	.274E-02	14753	.501E-03	.522E-02
83	.96	0.0	156.0	11438	.149E 02	14500	.223E 02	12984	.440E-03	.413E-02
84	.96	0.0	162.0	8318	.105E 02	11217	.172E 02	10638	.360E-03	.313E-02

RUN # 266

250FT, TEST NO. VF250, 100%,IN,BLE266:17,266

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S
EXIT VEL.	2.31 M/S	25.57 M/S	2.04 M/S	22.57 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E+03M3/S	.29E-03M3/S	.29E+03M3/S	.27E-03M3/S	.27E+03M3/S
SOURCE STRENGTH	.10E+06		.53E+05		.36E+05	
BACKGROUND	.42E+03		.41E+02		.44E+02	
CALIBRATION FACTOR	.43E-02		.23E-02		.15E-02	
SO2 FLUX		.850E+03 (GM/S)		.105E+04 (GM/S)		.220E+03 (GM/S)
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	STACK #1 RAW (AREA)	STACK #1 CONCENTRATION (GM/M**3)	STACK #2 RAW (AREA)	STACK #2 CONCENTRATION (GM/M**3)	STACK #3 RAW (AREA)	STACK #3 CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
57	.96	0.0	0.0	15931	.206E-02	9774	.150E-02	5347	.180E-03	.374E-02
58	.96	0.0	6.0	16078	.208E-02	9959	.153E-02	5508	.186E-03	.380E-02
60	.96	0.0	18.0	16981	.220E-02	11442	.176E-02	5910	.200E-03	.416E-02
62	.96	0.0	30.0	19625	.255E-02	13817	.213E-02	6948	.235E-03	.492E-02
64	.96	0.0	42.0	22639	.296E-02	16076	.248E-02	8905	.278E-03	.573E-02
66	.96	0.0	54.0	24475	.320E-02	18580	.287E-02	11241	.302E-03	.645E-02
68	.96	0.0	66.0	27111	.355E-02	21419	.330E-02	12727	.432E-03	.722E-02
70	.96	0.0	78.0	29607	.390E-02	25494	.394E-02	15310	.521E-03	.835E-02
71	.96	0.0	84.0	30507	.402E-02	28053	.433E-02	16423	.559E-03	.891E-02
72	.96	0.0	90.0	30373	.399E-02	29150	.450E-02	17886	.609E-03	.910E-02
74	.96	0.0	102.0	28176	.370E-02	29154	.450E-02	18562	.632E-03	.883E-02
76	.96	0.0	114.0	25910	.339E-02	28630	.442E-02	18766	.639E-03	.845E-02
77	.96	0.0	120.0	23959	.313E-02	27391	.423E-02	17944	.611E-03	.797E-02
79	.96	0.0	132.0	20909	.273E-02	23730	.366E-02	16010	.545E-03	.693E-02
81	.96	0.0	144.0	14760	.190E-02	17778	.274E-02	13327	.453E-03	.510E-02
83	.96	0.0	156.0	9945	.126E-02	12768	.197E-02	10020	.340E-03	.357E-02
84	.96	0.0	162.0	7813	.977E-03	9969	.153E-02	7972	.271E-03	.278E-02
86	.96	0.0	174.0	5449	.662E-03	6233	.955E-03	5194	.175E-03	.172E-02
88	.96	0.0	186.0	3565	.410E-03	3421	.531E-03	3272	.110E-03	.105E-02
90	.96	0.0	198.0	2302	.241E-03	2303	.347E-03	2167	.710E-04	.660E-03

RUN # 267

250FT, TEST NO.EX250, 100%,IN,BLE267:117,199

	STACK #1		STACK #2		STACK #3	
	MODEL	PROTOTYPE	MODEL	PROTOTYPE	MODEL	PROTOTYPE
VEL. AT STACK HT	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S	1.26 M/S	14.04 M/S
EXIT VEL.	2.31 M/S	25.57 M/S	2.04 M/S	22.57 M/S	1.99 M/S	22.08 M/S
VOL. FLOW	.27E-03M3/S	.27E103M3/S	.29E-03M3/S	.29E103M3/S	.27E-03M3/S	.27E103M3/S
SOURCE STRENGTH	.10E106		.53E105		.36E105	
BACKGROUND	.48E103		.25E102		.10E103	
CALIBRATION FACTOR	.43E-02		.23E-02		.15E-02	
SO2 FLUX		.850E103 (GM/S)		.105E104 (GM/S)		.220E103 (GM/S)
STACK HEIGHT	25.40 CM	76.20 M	25.40 CM	76.20 M	25.40 CM	76.20 M
STACK DIAMETER	1.22 CM	3.66 M	1.34 CM	4.02 M	1.32 CM	3.96 M

SAMPLE PT	X (KM)	Y (M)	Z (M)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	RAW (AREA)	CONCENTRATION (GM/M**3)	TOTAL CONC. (GM/M**3)
1	.3	15.0	0.0	1695	.162E 03	4922	.747E-03	2140	.620E-04	.872E-03
2	.3	0.0	0.0	1730	.165E 03	4051	.612E 03	1535	.402E-04	.828E-03
3	.3	-15.0	0.0	1147	.216E 04	2011	.296E 03	707	.206E-04	.402E-03
4	.6	30.0	0.0	4819	.577E 03	11167	.171E 02	6052	.231E-03	.252E-02
5	.6	15.0	0.0	5058	.611E 03	9112	.140E 02	5095	.170E-03	.218E-02
6	.6	0.0	0.0	5928	.714E-03	9184	.141E 02	4428	.148E-03	.227E-02
8	.6	-30.0	0.0	3674	.426E 03	4272	.646E 03	1719	.552E-04	.113E-02
9	.9	30.0	0.0	7056	.870E 03	12332	.189E 02	8703	.274E-03	.307E-02
10	.9	15.0	0.0	7404	.924E 03	11367	.174E 02	7341	.240E 03	.292E-02
11	.9	0.0	0.0	7138	.882E 03	9524	.147E 02	5577	.187E-03	.255E-02
12	.9	-15.0	0.0	6642	.823E 03	7354	.112E 02	3756	.125E 03	.207E-02
13	.9	-30.0	0.0	4130	.487E 03	4162	.629E-03	1949	.630E-04	.118E-02
14	1.2	60.0	0.0	6053	.744E 03	10204	.147E 02	9372	.317E 03	.273E-02
15	1.2	30.0	0.0	7818	.980E-03	10864	.167E 02	7935	.267E-03	.221E-02
16	1.2	15.0	0.0	8008	.102E 04	9817	.150E 02	6435	.216E-03	.274E-02
17	1.2	0.0	0.0	7661	.959E-03	8455	.122E 02	5085	.170E-03	.242E-02
18	1.2	-15.0	0.0	6708	.832E-03	6536	.977E 03	3685	.122E-03	.195E-02
19	1.2	-30.0	0.0	5477	.674E-03	4652	.705E 03	2350	.770E 04	.148E-02
20	1.2	-60.0	0.0	3356	.394E 03	2256	.334E 03	1002	.307E 04	.749E-03
53	2.7	150.0	0.0	3064	.345E 03	4467	.677E 03	4738	.150E 03	.118E-02
54	2.7	120.0	0.0	3708	.458E 03	5573	.817E 03	5584	.187E 03	.146E-02
55	2.7	90.0	0.0	5222	.643E-03	6342	.967E 03	5944	.199E-03	.181E-02
56	2.7	60.0	0.0	6169	.760E 03	6391	.975E 03	5374	.180E 03	.191E 02
57	2.7	30.0	0.0	6559	.812E 03	5700	.867E-03	4153	.138E-03	.182E-02
58	2.7	0.0	0.0	5635	.690E 03	4225	.639E 03	2809	.924E 04	.142E-02
59	2.7	-30.0	0.0	4566	.545E 03	3032	.454E-03	1987	.643E 04	.106E-02
60	2.7	-60.0	0.0	3706	.457E 03	2411	.350E 03	1495	.475E 04	.863E-03
61	2.7	-90.0	0.0	2732	.327E 03	1628	.237E 03	737	.205E-04	.593E-03
62	2.7	-120.0	0.0	2110	.210E 03	1030	.145E 03	566	.150E 04	.378E-03
63	2.7	-150.0	0.0	1452	.130E 03	590	.766E-04	310	.707E-05	.213E-03