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WIND-TUNNEL STUDY OF PITTSBURGH PLATE GLASS HEADQUARTERS

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LIST OF SYMBOLS

Symbol	Definition
U	Local mean velocity
D	Characteristic dimension (building width)
H	Characteristic dimension (building height)
ν, ρ	Kinematic viscosity and density of approach flow
$\frac{UD}{\nu}$	Reynolds number
E	Mean voltage
A, B, C	Constants
n	Frequency
U_{rms}	Root-mean-square of fluctuating velocity
E_{rms}	Root-mean-square of fluctuating voltage
U_∞	Reference mean velocity outside the boundary layer
X, Y	Horizontal coordinates
Z	Height above surface
δ	Height of boundary layer
T_u	Turbulence intensity $\frac{U_{rms}}{U_\infty}$ or $\frac{U_{rms}}{U}$
$C_{p_{mean}}$	Mean pressure coefficient, $\frac{(p-p_\infty)_{mean}}{0.5\ \rho\ U_\infty^2}$
$C_{p_{rms}}$	Root-mean-square pressure coefficient, $\frac{\left((p-p_\infty)-(p-p_\infty)_{mean}\right)_{rms}}{0.5\ \rho\ U_\infty^2}$
$C_{p_{max}}$	Peak maximum pressure coefficient, $\frac{(p-p_\infty)_{max}}{0.5\ \rho\ U_\infty^2}$
$C_{p_{min}}$	Peak minimum pressure coefficient, $\frac{(p-p_\infty)_{min}}{0.5\ \rho\ U_\infty^2}$

Symbol	Definition
$( )_{min}$	Minimum value during data record
$( )_{max}$	Maximum value during data record
F_x, F_y	Forces in X, Y direction
M_x, M_y, M_z	Moments about X, Y, Z axes
A_R	Reference Area
L_R	Reference Length
CF_X	Force coefficient, X direction, $\frac{F_x}{A_R\ 0.5\rho\ U_\infty^2}$
CF_Y	Force coefficient, Y direction, $\frac{F_y}{A_R\ 0.5\rho\ U_\infty^2}$
CM_X	Moment coefficient, X axis, $\frac{M_x}{A_R H_R\ 0.5\rho\ U_\infty^2}$
CM_Y	Moment coefficient, Y axis, $\frac{M_y}{A_R H_R\ 0.5\rho\ U_\infty^2}$
CM_Z	Moment coefficient, Z axis $\frac{M_z}{A_R H_R\ 0.5\rho\ U_\infty^2}$

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1. INTRODUCTION

1.1 General

A significant characteristic of modern building design is lighter cladding and more flexible frames. These features produce an increased vulnerability of glass and cladding to wind damage and result in larger deflections of the building frame. In addition, increased use of pedestrian plazas at the base of the buildings has brought about a need to consider the effects of wind and gustiness in the design of these areas.

The building geometry itself may increase or decrease wind loading on the structure. Wind forces may be modified by nearby structures which can produce beneficial shielding or adverse increases in loading. Overestimating loads results in uneconomical design; underestimating may result in cladding or window failures. Tall structures have historically produced unpleasant wind and turbulence conditions at their bases; the intensity and frequency of objectionable winds in pedestrian areas is influenced both by the structure shape and by the shape and position of adjacent structures.

Techniques have been developed for wind tunnel modeling of proposed structures which allow the prediction of wind pressures on cladding and windows, mean overall structural loading, building motion, and wind velocities and gusts in pedestrian areas adjacent to the building. Accurate knowledge of the intensity and distribution of the pressures on the structure permits adequate but economical selection of cladding strength and stiffness to meet selected maximum design winds. Information on building dynamics permits an evaluation of building strength under fluctuating wind loads and of occupant sensitivity to building motion. Information on sidewalk-level gustiness allows plaza areas to be protected by design changes before the structure is constructed.

Modeling of the aerodynamic loading on a structure requires special consideration of flow conditions in order to produce similitude between model and prototype. A detailed discussion of the similarity requirements and their wind-tunnel implementation can be found in references (1), (2), and (3). In general, the requirements are that the model and prototype be geometrically similar, that the approach mean velocity at the building site have a vertical profile shape similar to the full-scale flow, that the turbulence characteristics of the flows be similar, and that the Reynolds number for the model and prototype be similar.

These criteria are satisfied by constructing a scale model of the structure and its surroundings and performing the wind tests in a wind tunnel specifically designed to model atmospheric boundary-layer flows. Reynolds number similarity requires that the quantity UD/ν be similar for model and prototype. Since ν, the kinematic viscosity of air, is identical for both, Reynolds numbers cannot be made precisely equal with reasonable wind velocities as the air velocity in the wind tunnel would have to be as large as the model scale factor times the prototype wind velocity, a velocity which would introduce unacceptable compressibility effects. However, for sufficiently high Reynolds numbers ($>2\times10^4$), the pressure coefficient at any location on the structure will be essentially constant for a large range of Reynolds numbers. Typical values encountered are 10^7-10^8 for the full-scale and 10^5-10^6 for the wind-tunnel model. In this range, acceptable flow similarity is achieved without precise Reynolds number equality.

Modeling of building dynamics required that a first mode aeroelastic model test of the structure be performed. Requirements for similarity between model and full-scale building (3), (4) are that the ratio of

first mode frequencies on the model be the same as in the full scale, that the model damping ratio be the same as in the full scale, that the model-to-air density ratio be the same as the building-to-air density ratio at each point in the structure, and that reduced velocity, U/nD, be the same in model and full-scale. These requirements are met by constructing a rigid model with similar density to the full scale which is supported by springs at its base to permit rotation in each of two orthogonal directions. Spring stiffness is selected to provide a ratio of frequencies in the two directions equivalent to the full scale while providing for a convenient range of wind tunnel velocities to ensure equivalence of reduced velocity between model and full scale. The model is provided with a damping mechanism to apply a range of damping to the model.

1.2 The Wind-Tunnel Test

The wind-tunnel study was performed on a building modeled at a scale of 1:400. The rigid building model for pressure data acquisition was constructed of clear plastic fastened together with screws. The structure was modeled in detail to provide accurate flow patterns as the wind passes over the building surfaces. To achieve similarity in wind effects, the area surrounding the test building was modeled also. A flow visualization study was made (smoke is used to make the air currents visible) to define overall flow patterns and identify regions where local flow features might cause difficulties in building curtain-wall design or might produce pedestrian discomfort.

The test model, equipped with pressure taps, was exposed to an appropriately modeled atmospheric wind in the wind tunnel and the fluctuating pressure at each tap measured electronically. The model, and the

modeled area, were rotated 15 degrees and another set of data recorded for each pressure tap.

Data were recorded, analyzed and processed by an on-line computerized data-acquisition system. Pressure coefficients of several types were calculated by the computer for each reading on each piezometer tap and printed in tabular form as computer readout. In addition, thirty pressure tap/wind direction combinations were selected to be recorded and stored digitally for further analysis. Using wind data applicable to the building site, representative wind velocities were selected for combination with measured pressures on the building model. Integration of test data with wind data resulted in prediction of peak local wind pressures for design of glass or cladding and included overall forces and moments on the structure by floor for comparison of mean loads with that obtained in the aeroelastic study. Pressure contours were drawn on the developed building surfaces showing the intensity and distribution of peak wind loads on the building.

Based on the visualization (smoke) tests and on a knowledge of heavy pedestrian use areas, locations were chosen at the base of the building where wind velocities were measured to determine the relative comfort of pedestrians in plaza areas, near building entrances, near building corners, and on sidewalks. Usually a reference pedestrian position is tested also to determine whether the wind environment in the building area is better or worse than the environment a block or so away (in an undisturbed area).

The building model for the aeroelastic test was constructed as a rigid unit of balsa-wood, machined to the external building shape. This model was attached to the wind tunnel floor through a set of springs

which permitted rotation of the model about ground level in two orthogonal directions. The springs were instrumented with strain gages to permit fluctuating base bending moment to be measured. A damping plate was fastened to the underside to permit model response, under a range of damping values, to be measured. Two accelerometers were installed in the model to measure accelerations at the top of the building in orthogonal directions.

Measurements of fluctuating base bending moment and acceleration at the building top were made at one value of damping and approach wind velocity for each of 24 wind directions to determine building response sensitivity to different wind directions. Several wind sectors were then selected for a more detailed angular examination of response so that no large responses for narrow approach wind directions were missed. Four wind directions, where response was large, were selected for further study. Response measurements were made at these directions for a range of reduced velocities and damping values. All aeroelastic measurement data was stored on digital tape for further analysis.

The following pages discuss in greater detail the procedures followed and the equipment and data collecting and processing methods used. In addition, the data presentation format is explained and the implications of the data are discussed.

2. EXPERIMENTAL CONFIGURATION

2.1 Wind Tunnel

Wind-engineering studies are performed in the Fluid Dynamics and Diffusion Laboratory at Colorado State University (Figure 1). Three large wind tunnels are available for wind loading studies depending on the detailed requirements of the study. The wind tunnels used for this investigation are shown in Figures 2a and 2b. The meteorological wind tunnel was used for pressure tests and pedestrian wind measurements while the industrial aerodynamics wind tunnel was used for the aeroelastic model tests. Both tunnels have a flexible roof adjustable in height to maintain a zero pressure gradient along the test section. The mean velocity can be adjusted continuously in each tunnel to the maximum velocity available.

2.2 Model

In order to obtain an accurate assessment of local pressures using piezometer taps, models are constructed to the largest scale that does not produce significant blockage in the wind-tunnel test section. The models are constructed of 1/2 in. thick Lucite plastic and fastened together with metal screws. Significant variations in the building surface, such as mullions, are machined into the plastic surface. Piezometer taps (1/16 in. diameter) are drilled normal to the exterior vertical surfaces in rows at several or more elevations between the bottom and top of the building. Similarly, taps are placed in the roof and on any sloping, protruding, or otherwise distinctive features of the building that might need investigation.

Pressure tap locations are chosen so that the entire surface of the building can be investigated for pressure loading and at the same

time permit critical examination of areas where experience has shown that maximum wind effects may be expected to occur. Locations of the pressure taps for this study are shown in Figure 3. A row of densely spaced taps near the top of the building was selected to determine if pressures on various sides of the protruding vertical roughness elements were significantly different. Dimensions are given both for full-scale building (in ft) and for model (in in.). The pressure tap numbers are shown adjacent to the taps.

The pressure tests are sometimes made in two stages. In the first stage measurements are made on the initial distribution of pressure taps. If it becomes apparent from the data that the loading on the building is being influenced by some unsuspected geometry of the building or adjacent structures, additional pressure taps are installed in the critical areas. The locations of the taps are selected so that the maximum loading can be detected and the area over which this loading is acting can be defined. Any added taps are also shown in Figure 3.

The aeroelastic model was made from a thin balsa wood veneer machined to the external shape of the structure and screwed to a light, rigid Plexiglas framework as shown in Figure 4. The model was attached to a baseplate through a set of four springs mounted at ground level. The springs were sized to give a model natural frequency of about 11 Hz (compared to 0.22 for the full-scale) and were instrumented with strain gages to measure directly the base bending moment in two directions about the building principal axes. Details of the mounting are shown in Figure 4. The model density was set at the design target value of 6.3 lb/ft^3, thus ensuring that the moment of inertia of the building was correctly scaled to the full-scale value (4). A summary of model and full-scale building characteristics is shown in Table 9.

Two miniature accelerometers were installed at 540 ft elevation on the building top floor to measure accelerations in each of two principal building axes. It has been found that, because the building motion is not purely sinusoidal on one axis with fixed amplitude, top-floor accelerations calculated by knowing building displacement from the base-spring measurements are not as reliable as direct measurement of acceleration.

A circular area about 1800 ft in radius was modeled in detail. Structures within the modeled region were made from wood or styrofoam and cut to the individual building geometries. They were mounted on the turntable in their proper locations. The model was mounted on a turntable (Figure 2) near the downwind end of the test section. Any buildings or terrain features which did not fit on the turntable were placed on removable pieces which were placed upwind of the turntable for appropriate wind directions. A plan view of the building and its immediate surroundings is shown in Figure 5. The turntable is calibrated to indicate azimuthal orientation to 0.1 degree.

The region upstream from the modeled area was covered with a randomized roughness constructed using various sized cubes placed on the floor of the wind tunnel. Different roughness sizes were used for different wind directions to simulate three types of approach characteristics. Spires were installed at the test-section entrance to provide a thicker boundary layer than would otherwise be available. The thicker boundary layer permitted a somewhat larger scale model than would otherwise be possible. The spires are five tapered pieces of 1/2 in. thick plywood either 42 or 48 inches in height. They were placed so that the broad side intercepts the flow. A barrier approximately 8 in. high was

placed on the test-section floor downstream of the spires to aid in development of the boundary-layer flow.

The distribution of the roughness cubes and the spires in the roughened area was designed to provide a boundary-layer thickness of approximately 4 ft, a velocity profile power-law exponent similar to that expected to occur in the region approaching the modeled area for each wind direction (a number of wind directions may have the same approach roughness). A photograph of the completed models and their installation in the wind tunnel is shown in Figure 6. The wind-tunnel ceiling was adjusted after placement of the model to obtain a zero pressure gradient along the test section.

3. INSTRUMENTATION AND DATA ACQUISITION

3.1 Flow Visualization

Making the air flow visible in the vicinity of the model is helpful (a) in understanding and interpreting mean and fluctuating pressures, (b) in defining zones of separated flow and reattachment and zones of vortex formation where pressure coefficients may be expected to be high and (c) in indicating areas where pedestrian discomfort may be a problem. Titanium tetrachloride smoke is released from sources on and near the model to make the flow lines visible to the eye and to make it possible to obtain motion picture records of the tests. Conclusions obtained from these smoke studies are discussed in Sections 4.1 and 5.1.

3.2 Pressures

Mean and fluctuating pressures are measured at each of the pressure taps on the model structure. Data are obtained for 24 wind directions, rotating the entire model assembly in a complete circle. Seventy-six pieces of 1/16 in. I.D. plastic tubing are used to connect 76 pressure ports at a time to an 80 tap pressure switch mounted inside the model. The switch was designed and fabricated in the Fluid Dynamics and Diffusion Laboratory to minimize the attenuation of pressure fluctuations across the switch. Each of the 76 measurement ports is directed in turn by the switch to one of four pressure transducers mounted close to the switch. The four pressure input taps not used for transmitting building surface pressures are connected to a common tube leading outside the wind tunnel. This arrangement provides both a means of performing in-place calibration of the transducers and, by connecting this tube to a pitot tube mounted inside the wind tunnel, a means of automatically monitoring the tunnel speed. The switch is operated by means of a shaft projecting through

the floor of the wind tunnel. A computer-controlled stepping motor steps the switch into each of the 20 required positions. The computer keeps track of switch position but a digital readout of position is provided at the wind tunnel.

The pressure transducers used are setra differential transducers (Model 237) with a 0.10 psid range. Reference pressures are obtained by connecting the reference sides of the four transducers, using plastic tubing, to the static side of a pitot-static tube mounted in the wind tunnel free stream above the model building. In this way the transducer measures the instantaneous difference between the local pressures on the surface of the building and the static pressure in the free stream above the model. Each transducer is periodically calibrated against a pressure standard traceable to the National Bureau of Standards.

Voltage output from the transducers is fed to an on-line data acquisition system consisting of a Hewlett-Packard 21 MX computer, disk unit, card reader, printer, Digi-Data digital tape drive and a Preston Scientific analog-to-digital converter. The data are processed immediately into pressure coefficient form as described in Section 4.3 and stored for printout or further analysis.

All four transducers are recorded simultaneously for 16 seconds at a 250 sample per second rate. Experiments have been performed to determine the length of record required to obtain stable mean and rms (root-mean-square) pressures and to determine the overall accuracy of the pressure data acquisition system. Typical pressure port records were integrated for a number of different time periods to obtain the required sample time to determine acceptable precision. Examination of a large number of pressure taps showed that the overall accuracy for a 16-second

period is, in pressure coefficient form, 0.03 for mean pressures, 0.1 for peak pressures, and 0.01 for rms pressures. The value for peak pressures becomes larger for large peak pressures due to the statistical characteristics of the peak pressure unrelated to data acquisition methods. Pressure coefficients are defined in Section 4.3.

3.3 Velocity

Mean velocity and turbulence intensity profiles are measured upstream of the model for each roughness category to determine that an approach boundary-layer flow appropriate to the site has been established. Tests are made at one wind velocity in the tunnel. This velocity is well above that required to produce Reynolds number similarity between the model and the prototype as discussed in Section 1.1.

In addition, mean velocity and turbulence intensity measurements are made 5 to 7 ft (prototype) above the surface at a dozen or more locations on and near the building for 16 wind directions. The measurement locations are shown on Figure 5. The surface measurements are indicative of the wind environment to which a pedestrian at the measurement location would be subjected. The locations are chosen to determine the degree of pedestrian comfort or discomfort at the building corners where relatively severe conditions frequently are found, near building entrances and on adjacent sidewalks where pedestrian traffic is heavy, and in open plaza areas. A reference pedestrian position, located about a block away, is also tested. These data are helpful in evaluating the degree of pedestrian comfort or discomfort in terms of an environment in the immediate vicinity which is relatively undisturbed by the proposed project.

Velocity measurements are made with a single hot-wire anemometer mounted with its axis vertical. The instrumentation used is a Thermo Systems constant temperature anemometer (Model 1050) with a 0.001 in. diameter platinum film sensing element 0.020 in. long. Output is directed to the on-line data acquisition system for analysis.

Calibration of the hot-wire anemometer is performed by comparing output with the pitot-static tube in the wind tunnel. The calibration data are fit to a variable exponent King's Law relationship of the form

$$E^2 = A + BU^c$$

where E is the hot-wire output voltage, U the velocity and A, B, and c are coefficients selected to fit the data. The above relationship was used to determine the mean velocity at measurement points using the measured mean voltage. The fluctuating velocity in the form U_{rms} (root-mean-square velocity) was obtained from

$$U_{rms} = \frac{2\ E\ E_{rms}}{B\ c\ U^{c-1}}$$

where E_{rms} is the root-mean-square voltage output from the anemometer. For interpretation all turbulence measurement for pedestrian winds were divided by the mean velocity outside the boundary-layer U_∞. Turbulence intensity in velocity profile measurements used the local mean velocity.

3.4 Aeroelastic Tests

The strain gages monitoring the state of stress in the springs at the base of the aeroelastic model were formed into two bridge networks--one for each of the two directions of building motion. These bridges are monitored by Honeywell Accudata 118 Gage Control/Amplifier units which provides excitation to the bridge and amplifies the bridge output. The

output from the strain gage bridges is processed through the on-line data acquisition system described earlier.

Calibration of the model spring stiffness was performed in two ways: 1) a dynamic calibration using the measured natural frequency of the model and calculated moment of inertia of the model and 2) a static calibration in which a known static force was applied to the model and its deflection was measured. Stiffness measured in these ways agreed to within about 8 percent. The static calibration appeared to be the more reliable and was used thereafter. Periodic static calibrations were performed in-place in the wind tunnel to insure stability of the stiffness value during the test.

During test runs, data are recorded at a sample rate of 250 samples per second on each channel (about 22 data points for each building motion cycle) for 30 seconds. The sample duration time was selected on the basis of repeatability sampling runs made early in the testing phase. The data are processed immediately to determine mean, rms and peak loads. The basic run data are also stored on digital tape for further analysis.

The accelerometers used in the study are Kistler model Picotron 811A weighing 0.5 grams each. The accelerometers are equipped with their own battery-driven electronics. Prior to installation in the model, each was calibrated on a shaker table with known frequency and amplitude. During each data run, the outputs from the accelerometers are directed to the on-line data acquisition system where mean, rms and peak accelerations are calculated immediately. The data time series are also stored on digital tape for further analysis. The mean acceleration was monitored to insure that its value was essentially zero for each run.

The velocity in the wind tunnel was set to the value required by reduced velocity similarity using a pitot-static tube to measure the

velocity. The pressure difference generated by the pitot-static tube was measured by one of the setra pressure transducers described above. Output from the transducer was directed to the on-line data acquisition system for immediate calculation of tunnel velocity.

3.5 Quality Assurance

The quality of data acquired during the testing phase is maintained at a high level by application of an active quality assurance program. Several of the key features of this program are summarized below:

A. Hot-wire velocity measurements

1. Wires are calibrated no less often than every 4 hours.
2. Calibration curve is plotted with calibration points for most calibrations.
3. Data-reduction programs check the incoming signal for certain types of bad data.

   e.g. calibration used is $E^2/Rh(Rh-Rc) = A + BU^c$

   then $U = \left[\frac{\frac{E^2}{Rh(Rh-Rc)} - A}{B}\right]^{1/c}$

   so if $\left[\frac{\frac{E^2}{Rh(Rh-Rc)} - A}{B}\right] \leq 0$ then the data point is bad and is flagged by the program, which indicates to the user that the wire may be going out of calibration.
4. Technician periodically checks the mean velocity reported by the program against a pitot tube.

B. Pressure Coefficients

1. The pressure transducers used have been calibrated to give both mean and spectral response adequate for the test purposes. The

spectral response is obtained using the same length tube that is used in the model.

2. Transducers are periodically checked for linearity (which is the only prerequisite for obtaining pressure coefficients) and periodically calibrated against a pressure standard traceable to the National Bureau of Standards.
3. Wind tunnel freestream velocity is checked with a pitot tube and MKS Barotron or Transonics pressure meter at the beginning of each run.
4. All channels to the computer are corrected for zero offset.
5. An offset voltage is applied to each channel in sequence to insure that the proper A/D channels are being monitored.
6. Actual taps on the building are checked to insure that no tubes are crossed within the model.
7. Each tap is checked for leaks by applying a known constant pressure. If any leakage is observed the tap is repaired.
8. Repeatability runs are taken periodically.
9. The computer program checks the rms and peak coefficients for each tap for indications of plugged or pinched tubes during each data run and performs other consistency checks on the data.

C. Bending Moment Transducers - Strain Gages

1. Calibrated with precision weights under known conditions (e.g. temperature).
2. Measurements are only made when the temperature of the apparatus is within a small tolerance range of the calibration temperature.
3. In-tunnel calibrations are performed about once every 20 hours of run time to verify the calibration factors.

4. Excitation voltages and amplifier gains are checked daily. Bridge balance is checked before every run.

D. Acceleration Measurements

1. Accelerometers are calibrated at the factory to NBS standards.
2. Calibrations are checked on a shaker table.
3. Acceleration measurements are checked with deflection measurements for correlation of sign and magnitude.

4. RESULTS

4.1 Flow Visualization

A film is included as part of this report showing the characteristics of flow about the structure using smoke to make the flow visible. A listing of the contents of the film is shown in Table 1. Several features can be noted from the visualization. As with all large structures, wind approaching the building is deflected down to the plaza level, up over the structure and around the sides. A description of the smoke test results emphasizing flow patterns of concern relative to possible high-wind load areas and pedestrian comfort is given in Section 5.1.

4.2 Velocity--Approach Flow

Three approach roughness types were used to characterize the surrounding area. The roughest, designated boundary layer 3, simulated the presence of the bluff to the southwest of the building site. The least rough, designated boundary layer 1, simulated approaches over the least-built areas (for example, from the west over the river and Point State Park). An intermediate roughness, designated boundary layer 2, was used for other approach wind directions. The upstream roughness was tailored so that velocity profiles measured at Point State Park were similar to those previously measured at the same location in a 1:2000 scale topographic model, reference 5. Figures 7a-7c show the three profiles measured at Point State Park which are characteristic of the three approach roughnesses and their comparison with similar profiles from reference 5. Figure 5 shows that an acceptable simulation of flow characteristics was achieved in the approach flow conditions. The three approach boundary layers were used for the following approach wind azimuths.

Boundary Layer	Approach Wind Azimuths
1	120,135,150,270,285,300
2	0,15,45,60,75,90,105,165,180,240,255,315,330,345
3	195,210,225

Figure 5c shows this table in graphical form. For the aeroelastic model tests, azimuths for boundary layer 3 were also run with boundary layer 2.

Figure 7d shows velocity profiles at the building site with no building in place. Because of the close proximity of the building site to Point State Park, these profiles are essentially the same as those in Figure 7a-7c except for differences near ground level caused by the structures immediately surrounding the building site. In all parts of Figure 7, the mean velocity is normalized by the velocity at 1270 ft (38.4 inches in the model), the elevation of the reference velocity measurement for the wind-tunnel tests. The turbulence intensity is the root-mean-square velocity about the mean divided by the local mean velocity.

4.3 Velocity--Pedestrian Locations

Velocity data obtained at each of the pedestrian measurement locations shown in Figure 5 are listed in Table 2 as mean velocity U/U_∞, turbulence intensity U_{rms}/U_∞, and largest effective gust

$$U_{pk} = \frac{U + 3U_{rms}}{U_\infty} \quad .$$

These data are plotted in polar form in Figure 8. Measurements were taken 5 to 7 ft above the ground surface. A site map is superimposed on the polar plots to aid in visualization of the effects of the nearby structures on the velocity and turbulence magnitudes. An analysis of these wind data is given in Section 5.2.

To enable a quantitative assessment of the wind environment, the wind-tunnel data were combined with wind frequency and direction information obtained at the Greater Pittsburgh International Airport. Table 3 shows annual wind frequency by direction and magnitude obtained from summaries published by the National Weather Service. These data, obtained at an elevation of about 300 meters, were converted to velocities at the reference velocity height for the wind-tunnel measurements and combined with the wind-tunnel data to obtain cumulative probability distributions (percent time a given velocity is exceeded) for wind velocity at each measuring location. The percentage times were summed by wind direction to obtain a percent time exceeded at each measuring position independent of wind direction (but accounting for the fact that the wind blows from different directions with varying frequency and intensity). These results are plotted in Figure 9. Also shown in Figure 9 are plots for wind frequency for January, April, July and October to show seasonal variations in wind characteristics at each site.

Interpretation of Figure 9 is aided by a description of the effects of wind of various magnitudes on people. The earliest quantitative description of wind effects was established by Sir Francis Beaufort in 1806 for use at sea and is still in use today. Several recent investigators have added to the knowledge of wind effects on pedestrians. These investigations along with suggested criteria for acceptance have been summarized by Penwarden and Wise (6) and Melbourne (7). The Beaufort scale (from ref. 6), based on mean velocity only, is reproduced as Table 4 including qualitative descriptions of wind effects. Table 4 suggests that mean wind speeds below 12 mph are of minor concern and that mean speeds above 24 mph are definitely inconvenient. Quantitative

criteria for acceptance from reference 7 are superimposed as dashed lines on Figure 9. The peak gust curves shown in Figure 9 are the percent of time during which a short gust of the stated magnitude could occur (say about one of these gusts per hour). The use of a peak gust which is the mean plus three rms values is supported by reference 8. Implications of data plotted in Figure 9 are presented in Section 5.2.

Because some pedestrian wind measuring positions are purposely chosen at sites where the smoke tests showed large velocities of small spacial extent, the general wind environment about the structure may be less severe than one might infer from a strict analysis of Table 2 and Figure 9.

4.4 Analysis of Extreme Winds

An analysis was made of the extreme winds in the Pittsburgh area using wind data at both the Allegheny County Airport southeast of the city where fastest mile wind data was obtained until 1952 and the Greater Pittsburgh International Airport where fastest mile wind data was obtained from 1953 until 1964. Figure 10 shows the frequency of winds by direction for 1 minute hourly surface winds, winds at 300 meters, and fastest mile winds. The obvious conclusion is that highest wind frequency for ordinary and strong winds are generally from westerly directions. Analysis of surface and 300 meter elevation wind speed data at Pittsburgh International Airport indicated a mean velocity power law exponent of about 0.19 while at Allegheny County Airport the power law exponent was 0.15 to 0.17.

Type I extreme value analyses of fastest mile winds are shown in Figure 11 for three data sets: data for all wind directions combined at Allegheny County Airport, all wind directions combined (all of which

were from westerly directions) at Pittsburgh International Airport, and easterly winds only at Pittsburgh International Airport. The difference between the velocity magnitudes for the Allegheny County Airport and Pittsburgh International Airport are accounted for in the different power law profiles at the two sites. Because the power law exponent was better defined at the Pittsburgh International Airport and because more detailed records were available, that data was used to define the extreme wind speed magnitudes. The fastest mile wind speed at 30 ft is shown as a function of return period in Figure 11. The data for easterly winds in Figure 11, the lowest curve, was obtained by using the fastest mile of wind each year with an easterly component. Because the actual largest values for winds other than westerly may have been masked by the data recorded for westerly winds, the true extreme value winds for easterly winds lies above the plotted curve and below the all-direction data in the curve above. For this reason, a single wind speed, listed in the figure, was used for all wind directions for each return period. This procedure provides a somewhat conservative estimate of wind loads for easterly winds. However, wind speed records do not provide a reliable basis for establishing a separate wind speed for easterly winds.

4.5 Pressures

For each of the pressure taps examined at each wind direction, the data record is analyzed to obtain four separate pressure coefficients. The first is the mean pressure coefficient

$$C_{p_{mean}} = \frac{(p-p_\infty)_{mean}}{0.5\ \rho\ U_\infty^2}$$

where the symbols are as defined in the List of Symbols. It represents the mean of the instantaneous pressure difference between the building pressure tap and the static pressure in the wind tunnel above the building model, nondimensionalized by the dynamic pressure

$$0.5\ \rho\ U_\infty^2$$

at the reference velocity position. This relationship produces a dimensionless coefficient which indicates that the mean pressure difference between building and ambient wind at a given point on the structure is some fraction less or some fraction greater than the undisturbed wind dynamic pressure near the upper edge of the boundary layer. Using the measured coefficient, prototype mean pressure values for any wind velocity may be calculated.

The magnitude of the fluctuating pressure is obtained by the rms pressure coefficient

$$C_{p_{rms}} = \frac{\left[(p-p_\infty) - (p-p_\infty)_{mean}\right]_{rms}}{0.5\ \rho\ U_\infty^2}$$

in which the numerator is the root-mean-square of the instantaneous pressure difference about the mean.

If the pressure fluctuations follow Gaussian probability distribution, no additional data would be required to predict the frequency with which any given pressure level would be observed. However, the pressure fluctuations do not, in general, follow a Gaussian probability distribution so that additional information is required to show the extreme values of pressure expected. The peak maximum and peak minimum pressure coefficients are used to determine these values:

$$C_{p_{max}} = \frac{(p-p_\infty)_{max}}{0.5\ \rho\ U_\infty^2}$$

$$C_{p_{min}} = \frac{(p-p_\infty)_{min}}{0.5\ \rho\ U_\infty^2}$$

The values of $p-p_\infty$ which were digitized at 250 samples per second for 16 seconds, representing about one hour of time in the full scale, are examined individually by the computer to obtain the most positive and most negative values during the 16-second period. These are converted to $C_{p_{max}}$ and $C_{p_{min}}$ by nondimensionalizing with the free stream dynamic pressure.

The four pressure coefficients are calculated by the on-line data acquisition system computer and tabulated along with the approach wind azimuth in degrees from true north. The list of coefficients is included as Appendix A. The pressure tap code numbers used in the appendix are explained in Figure 3.

To determine the largest peak loads acting at any point on the structure for cladding design purposes, the pressure coefficients for all wind directions were searched to obtain, at each pressure tap, the largest absolute value of peak pressure coefficient. Table 6 provides these pressure coefficients and associated wind directions. Two additional parts to Table 6 list the largest minimum pressure coefficient and largest maximum pressure coefficient. Included in Section 5.3 is an analysis of the coefficients of Table 6 including the maximum values obtained and where they occurred on the building.

The pressure coefficient of Table 6 can be converted to full-scale loads by multiplication by a suitable reference pressure selected for the field site. This reference pressure is represented in the equations for pressure coefficients by the $0.5\ \rho\ U_\infty^2$ denominator. This value is the dynamic pressure associated with an hourly mean wind at the reference velocity measurement position at an elevation of 1270 ft. In general, the method of arriving at a design reference pressure for a particular site involves selection of a design wind velocity, translation of the velocity to an hourly mean wind at the reference velocity location and conversion to a reference pressure. Selection of the design velocity was described in Section 4.3 by analysis of extreme wind data. The calculation of reference pressure for this study is shown in Table 5. The factor used in Table 5 to reduce gust winds to hourly mean winds is given in reference 11.

The reference pressure associated with the design hourly mean velocity at the reference velocity location can be used directly with the peak-pressure coefficients to obtain peak local design wind loads for cladding design. For glass design pressures, a glass load factor is used to account for the different duration of measured peak pressures and the one minute loading used in glass design charts. Recent research (12) indicates that the period of application of the peak pressures reported herein is about 5-10 seconds or less. If a glass design is based on these peak values, then a glass strength associated with this duration load is indicated. If the glass design is based on some alternate load duration--say one minute--then some reduction in peak loads should be made. An estimate of a load reduction factor can be obtained from an empirical relation of glass strength as a function of load duration (13). A

glass load factor of 0.73 on the reference pressure was used to convert the short 5-10 second pressure peaks to one minute loads typically cited in glass selection charts.

Local, instantaneous peak loads on the full-scale building suitable for cladding design were computed by multiplying the reference pressure of Table 5 by the peak coefficients of Table 6. Loadings appropriate for glass design were computed by multiplying the reference pressure by the peak coefficients of Table 6 with application of the 0.73 load factor. Table 6 shows both of these results. The maximum psf load given at each tap location in the first part of Table 6 is the absolute value of the maximum value found in the tests, irrespective of its algebraic sign. In the second and third parts of Table 6, the peak loads listed are the most negative load and most positive load respectively. For ease in visualizing the loads on the structure, contours of equal peak pressures for cladding and glass design in Table 6 have been plotted on developed elevation views of the structure, Figure 12.

An analysis was made of the influence of stack effect on cladding pressures for the tower. Assuming the building to be vented to the atmosphere at its base and a 70 degree Fahrenheit internal temperature, the increase in wind load at the top of the building due to higher internal than external static pressures was calculated. This set of conditions should yield the worst conditions. A joint probability distribution of temperature and wind speed for Pittsburgh previously calculated (14) was used in the calculations. The results of these calculations are presented in Table 7 in which the two right-hand columns represent 50-year recurrence wind load pressures in a suction area near the top of the structure without and with the influence of

stack pressures for a range of outside temperatures. The results indicate a small influence of stack effect on design pressures.

4.6 Forces and Moments

Force coefficients in the horizontal X and Y directions and moment coefficients about the X, Y and Z axes, with the origin at ground level at the base of the building and with Z axis vertical, may be computed for the 24 wind directions tested by integration of mean pressures on the building. Overall forces and moments acting on the full-scale building due to wind loading may be derived from use of these coefficients which is useful in designing the structural framing of the proposed building.

Force and moment coefficients were computed using the equations shown below.

$$CF_X = \frac{F_X}{A_R \; 0.5\rho \; U_\infty{}^2} \qquad CM_X = \frac{M_X}{A_R H_R \; 0.5\rho \; U_\infty{}^2}$$

$$CF_Y = \frac{F_Y}{A_R \; 0.5\rho \; U_\infty{}^2} \qquad CM_Y = \frac{M_Y}{A_R H_R \; 0.5\rho \; U_\infty{}^2}$$

$$CM_Z = \frac{M_Z}{A_R H_R \; 0.5\rho \; U_\infty{}^2}$$

Terms and symbols used in the equations are defined in the List of Symbols and the axes are defined for the building in Figure 3. Force coefficients CF_X and CF_Y were computed for the horizontal forces acting along the X and Y axes, and moment coefficients CM_X, CM_Y and CM_Z were computed for moments M_X, M_Y and M_Z acting about the

X, Y and Z axes. A_R and H_R represent a constant reference area and reference length for nondimensionalization of the forces and moments. Values of A_R and H_R used are $A_R = 2000\ ft^2$ and $H_R = 156$ ft. The signs on the moments are determined by application of the right-hand rule. The force and moment coefficients were computed using the mean pressure coefficient at each pressure tap. The resulting force and moment coefficients are shown in Table 8 for the 24 wind directions tested in the wind tunnel. Data are presented for the building as a whole and by floor.

The total forces and moments acting on the building for each wind direction may be computed by multiplying the above hourly mean coefficients by the reference pressure of Table 5 and a gust load factor selected for an appropriate wind gust duration. A gust load factor of 1.74 was selected to increase the loads from an hourly mean load to that of a gust whose duration would be about 30 seconds (11). Forces and moments calculated by application of the reference pressure and load factor are shown in Table 8. These loads are not to be interpreted as building aeroelastic response; they are mean loads multiplied by a gust factor. The data of Table 8 were corrected slightly to account for small differences between velocity profiles in the meteorological wind tunnel where pressure data was obtained and the profiles in the industrial aerodynamics wind tunnel where the areoelastic data was obtained.

4.7 Aeroelastic Response

Measurements of fluctuating base moments in X and Y directions (see Figure 3 for coordinate system) and fluctuating accelerations in both directions were scaled by the on-line data acquisition system to full-scale values. Mean, rms and peak values were calculated in a manner similar to that used for pressures.

Mean base moments corresponding to about a one hour average for both directions are plotted in Figure 13 as a function of wind direction and are compared to the mean base moment obtained from pressure measurements. The comparison is good. The presence of the bluff to the southwest is evident in a reduction in loads for the three wind azimuths where the bluff was simulated. Mean and rms base bending moments are plotted as a function of wind direction with and without the bluff to the southwest modeled in Figure 14. Both mean and rms response are decreased due to the presence of the bluff. Measurements at smaller azimuthal increments did not show values different from those shown in these two figures. Mean and measured peak moments, deflections and accelerations are plotted in Figure 15 as a function of wind direction Values plotted are magnitudes of vector quantities combining both X and Y values.

In order to see the influence of velocity and damping on building response, four wind directions were selected for study. Building response was measured over a range of reduced velocities and building damping. rms moments, peak measured moments, peak deflections and measured peak accelerations are shown in Figure 16. Reduced velocity is related to gradient wind velocity and approximate return period as follows.

Mean Gradient Wind Speed mph	Reduced Velocity $\frac{U}{nD}$	Approximate Return Period yrs
68	3	2
91	4	25
99	4.35	50
105	4.62	100
114	5	>100
136	6	
159	7	
182	8	

In the calculation of reduced velocity, n = 0.22 Hz (4.5 sec building period) and D = 150 ft (approximate building width).

Building acceleration response on the top floor of the tower was calculated as a function of number of wind events per year. Acceleration used was the vector peak acceleration. The number of events per year was the number of times the effective return period divided into 1 year. To determine wind speeds associated with return periods shorter than a year, an extreme value analysis was performed on daily fastest mile data. The result of this analysis is shown in Figure 17a. The tested building density and a heavier-building predicted response are shown. Also shown in Figure 17a are predicted perception thresholds for 2 and 10 percent of the population and acceptance curves for 2 and 10 percent of the population obtained from references 15 and 16.

Figure 18a shows the expected variation of building response with change in building density. This plot assumes that no change in building structural stiffness or damping occurs as a result of the change in density. Figure 18b shows the estimated total building damping as a function of reduced velocity for the 0.6 percent of critical structural damping case.

Equivalent static load diagrams were calculated for 50 year recurrence winds for four wind directions which include maximum building loading and are presented in Figure 18. Calculated values include vertical distributions of peak, rms and mean pressure loads, peak and mean shear, and peak and mean moments. The following assumptions were made in the calculations: 1) a peak factor of 3.4 could be used with rms values to obtain peak values (a value which matched measured peak values well). 2) peak base moment from the aeroelastic model tests were

matched, 3) vertical distribution of mean loads were obtained from Table 8, 4) vertical distribution of rms loads were obtained from rms pressure fluctuation data in Appendix A, 5) building density was 6.3 lb/ft^3, 6) building damping was about 0.6 percent, and 7) total building width was 156 ft. Shear and moment diagrams are presented as local shear and moment distributions.

Because the equivalent static load diagram was based on the largest single peak measured during an hour of the 50-year recurrence wind, the design values are rather far out on the probability distribution of measured peaks that occur during the hour. Probably distributions of measured peaks of base moments for both positive and negative peaks are shown in Figure 19 for several wind directions. A peak factor of 3.4 is well onto the tail of the distribution. A reduction of 10 percent in equivalent static load would imply an effective peak factor of approximately 2.9 to 3.0, a value still well out on the probability distribution.

5. DISCUSSION

5.1 Flow Visualization

Flow patterns identified with smoke showed that the protruding corners of the tower tended to protect the sides of the building from the separation/reattachment phenomena which often causes high local pressures. It appeared that the corners themselves would have the highest local pressures. Flow about the finials extending above the four corners did not show flow patterns characteristic of large pressures.

Flow in pedestrian areas showed a generally moderate wind structure with two avenues where winds near the surface would be stronger. The street along the north side of the tower showed stronger winds than average for west through north wind directions with some of that windiness passing through the openings on the northeast corner of the building. The street entering the plaza area from the north also showed stronger than average winds for northerly wind directions. These winds carried onto the plaza opposite the street but with a smaller velocity.

5.2 Pedestrian Winds

Figure 5 shows the thirty pedestrian locations selected for study. Location 1 was selected as a reference location which should be reasonably undisturbed by the proposed complex. Locations inside the tower perimeter are on the first floor passage under the tower. Table 2 and Figure 8 show that the largest mean velocities were under 50 percent of the mean velocity U_∞ at 1270 ft at all locations. Mean velocity in an open-country environment would be about 45 percent of U_∞.

The largest values of fluctuating velocity, U_{rms} were less than 20 percent of U_∞ with most locations averaging 10 to 12 percent. This is about the same level of gustiness expected in an open-country environment. The largest values of peak gust, represented by the mean plus three rms as discussed in Section 4.2, were obtained at location 5 with values of 105 and 101 percent of U_∞ for wind directions 135.0 and 337.5. Peak gusts in an open-country environment would be about 80-90 percent of U_∞.

Velocity data of Table 2 integrated with wind data is shown in Figure 9. The mean and effective peak data for each pedestrian location are plotted on separate graphs and compared to acceptance criteria. All pedestrian locations fall under the acceptable limit line for mean velocities on an annual basis. A few locations are acceptable only for walking for 10 percent of the time or less (location 5, for example). The peak gust unacceptable level was reached for annual winds by locations 23, 6, 9, and 5 for percentage times ranging from 1.5 percent at location 23 down to 0.1 percent at location 5. Any trees or other plantings along 4th street near locations 5-9 should decrease the velocities in that region. Some seasonal variation in pedestrian winds can be noted--major variations from the annual characteristics were not observed.

5.3 Pressures

The largest peak pressure coefficients measured on the model were -2.58 and -2.48 at taps 4397 and 4398 on the east face for a 30 degree wind direction. Very few taps showed peak pressures below -2.0. These pressure coefficients correspond to 59 and 57 psf using the reference pressure of Table 5. As shown on Figure 12, most peak cladding loads were below 40 psf. The projecting corners on the building are acting as buffers to protect the cladding from large negative peak pressures.

The effect of stack pressures on the net glass load was shown in Table 7 to be small.

5.4 Aeroelastic Data

Aeroelastic model data showed good comparison with the pressure model for mean base moments. Acceleration response of the tower showed that the response should be acceptable based on criteria published in the literature. That criteria is based on a very small sample of data, was published as a tentative guideline until confirming data could be established, and should be used with some caution.

Equivalent static load diagrams were calculated to show loading as a function of height, while mean loading was measured on the pressure model as a function of height, fluctuating loads integrated by floor levels were not measured directly--only fluctuating base moments were measured. Some uncertainty must thus be associated with the fluctuating position of the equivalent static load. Constraints on that load, however, do not permit large deviations from the calculated load diagram.

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FIGURES

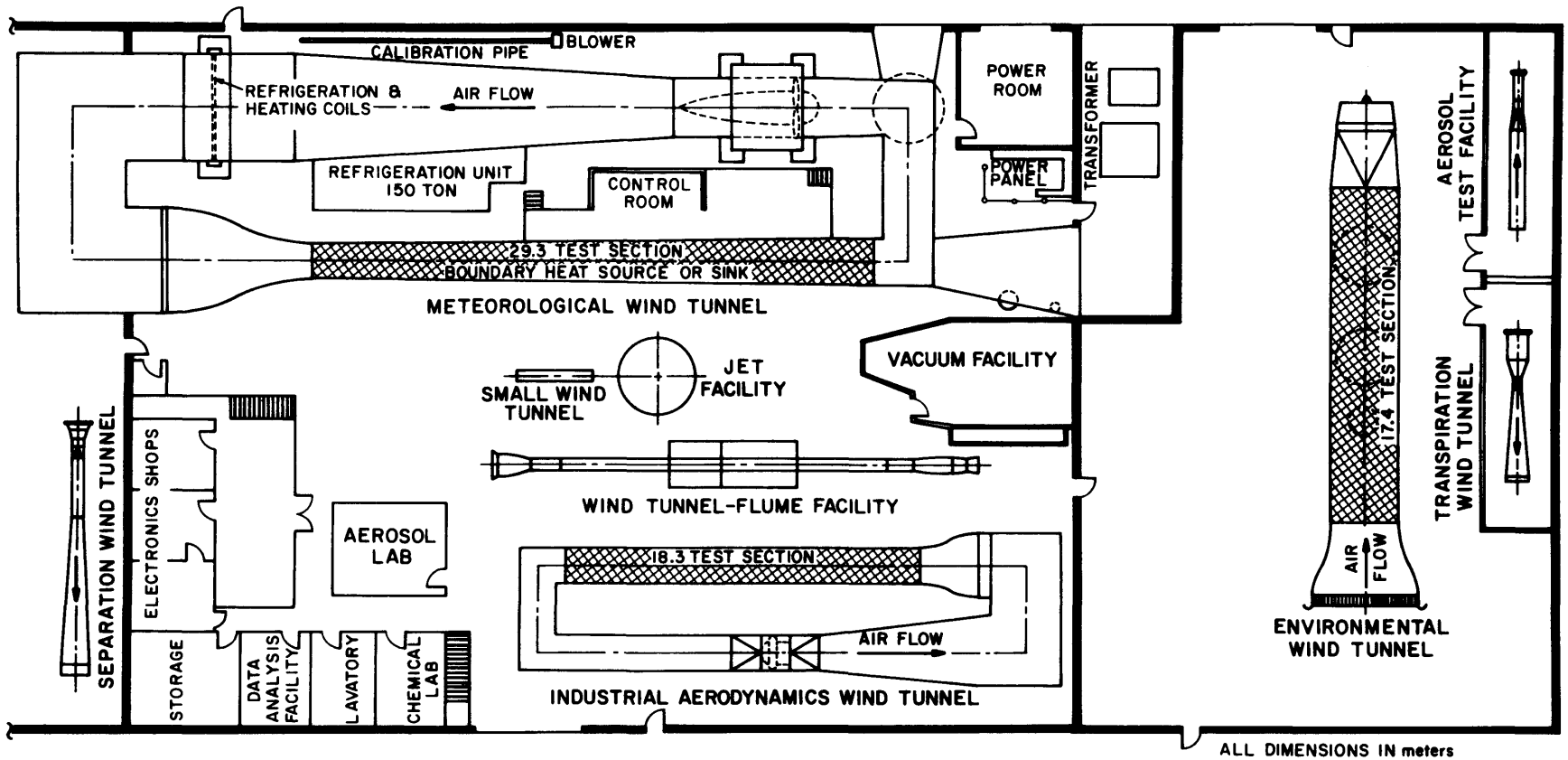
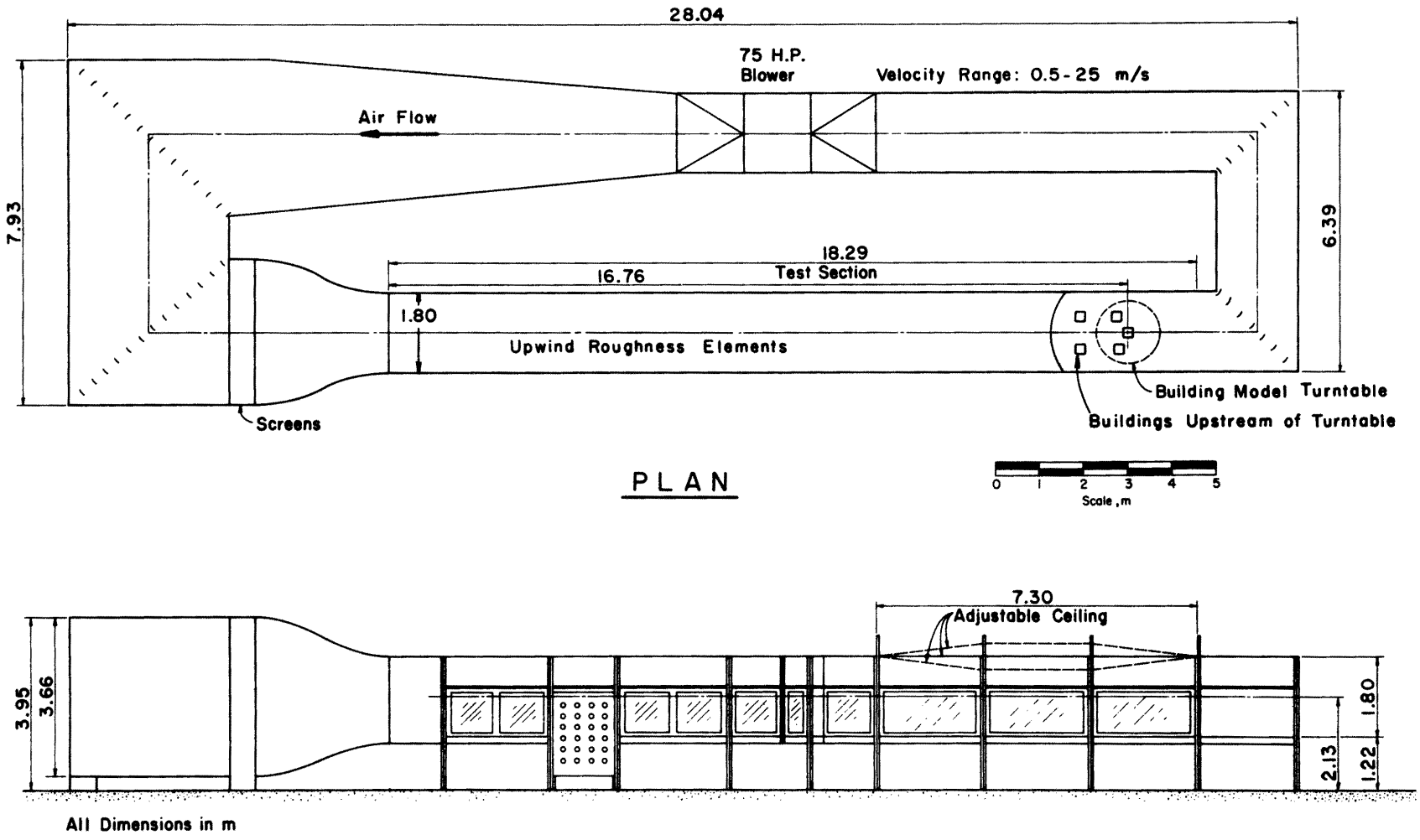
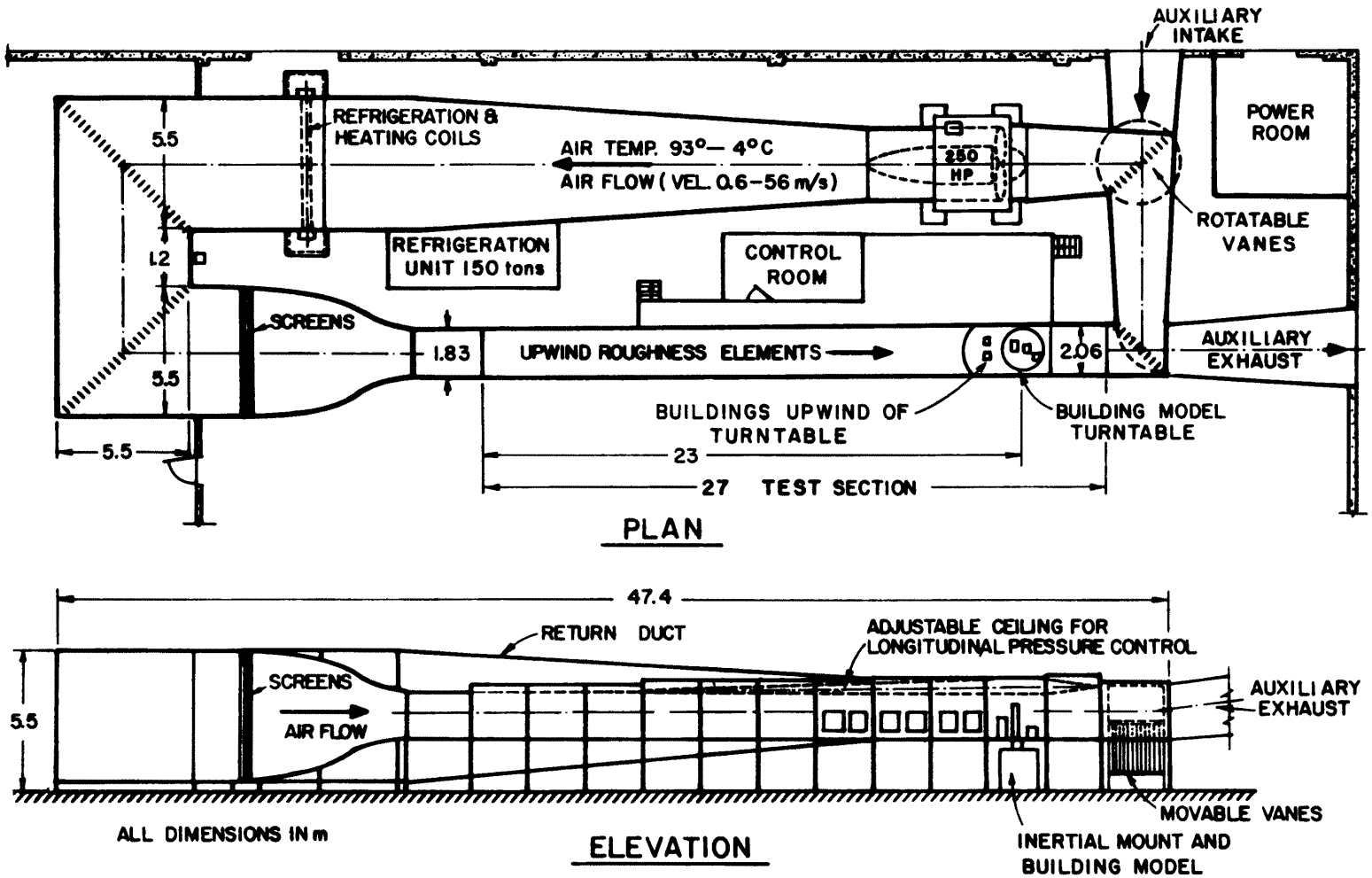


FIGURE 1 - FLUID DYNAMICS AND DIFFUSION LABORATORY
COLORADO STATE UNIVERSITY



INDUSTRIAL AERODYNAMICS WIND TUNNEL

Figure 2a. Wind Tunnel Configuration



METEOROLOGICAL WIND TUNNEL

Figure 2b. Wind Tunnel Configuration

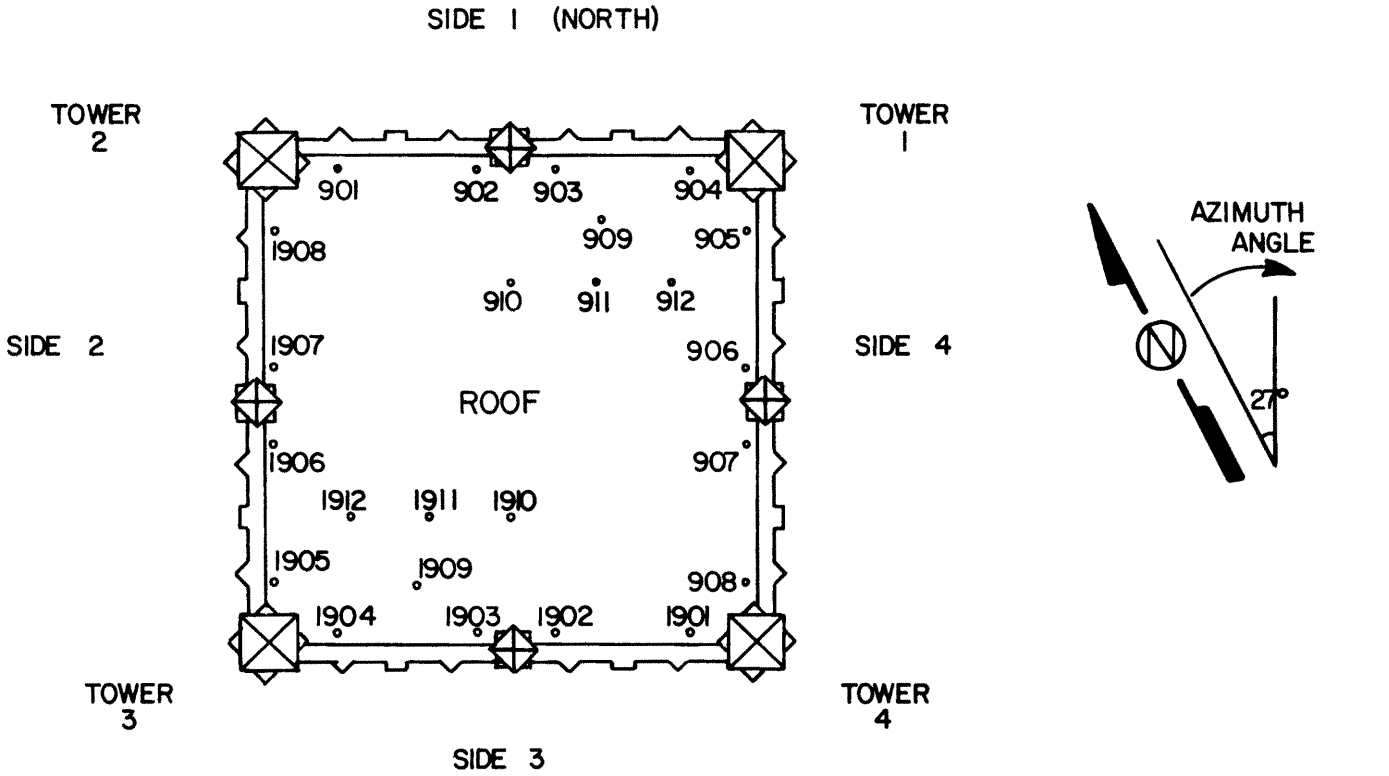


Figure 3a. Pressure Tap Locations

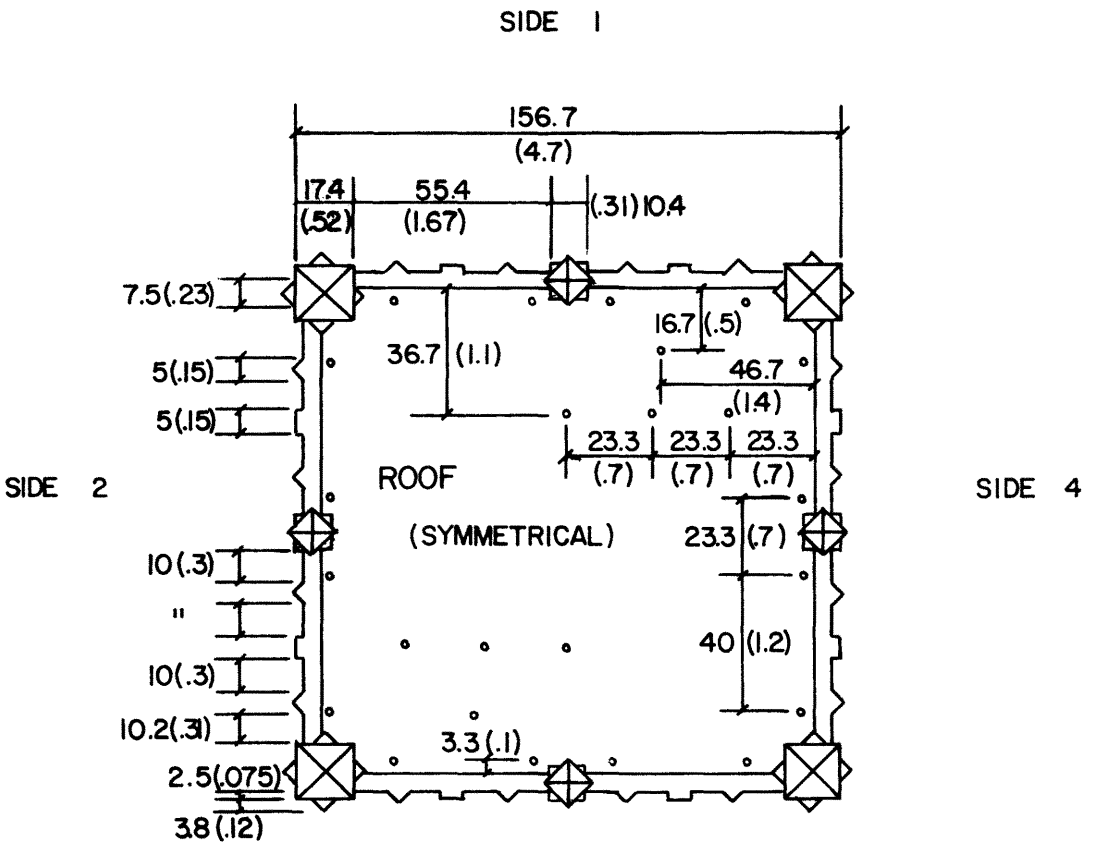


Figure 3b. Pressure Tap Locations

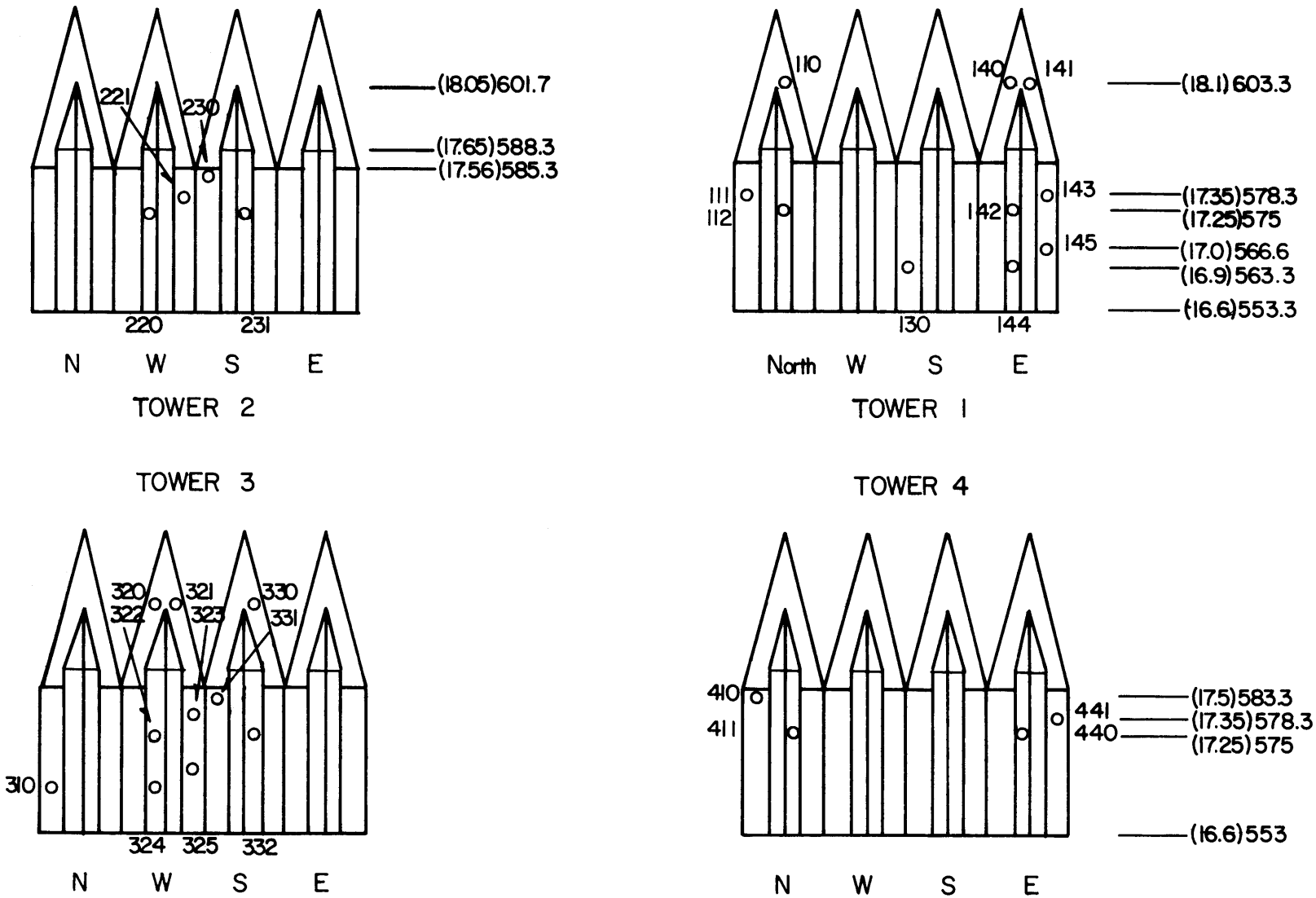


Figure 3c. Pressure Tap Locations

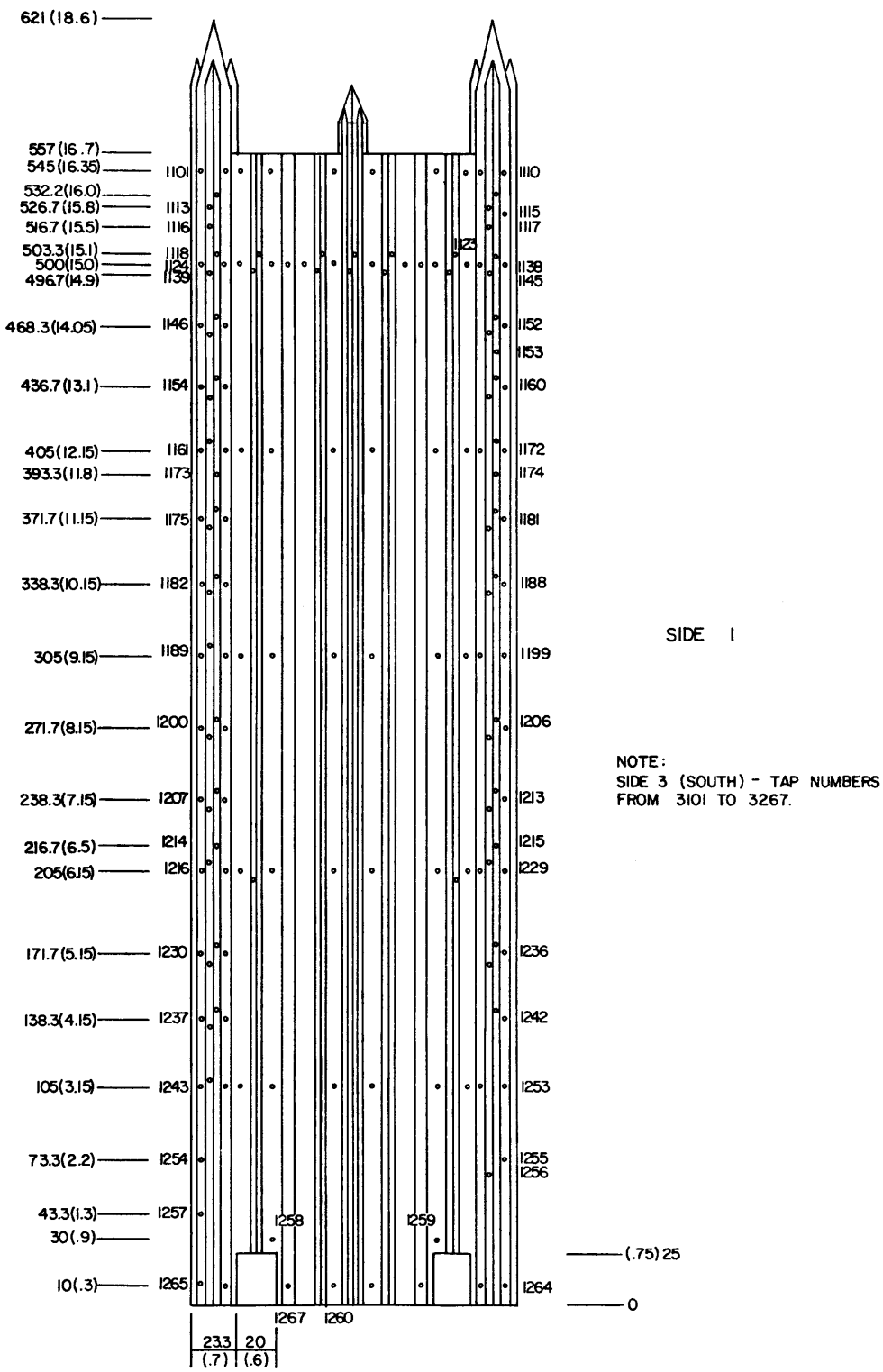


Figure 3d. Pressure Tap Locations

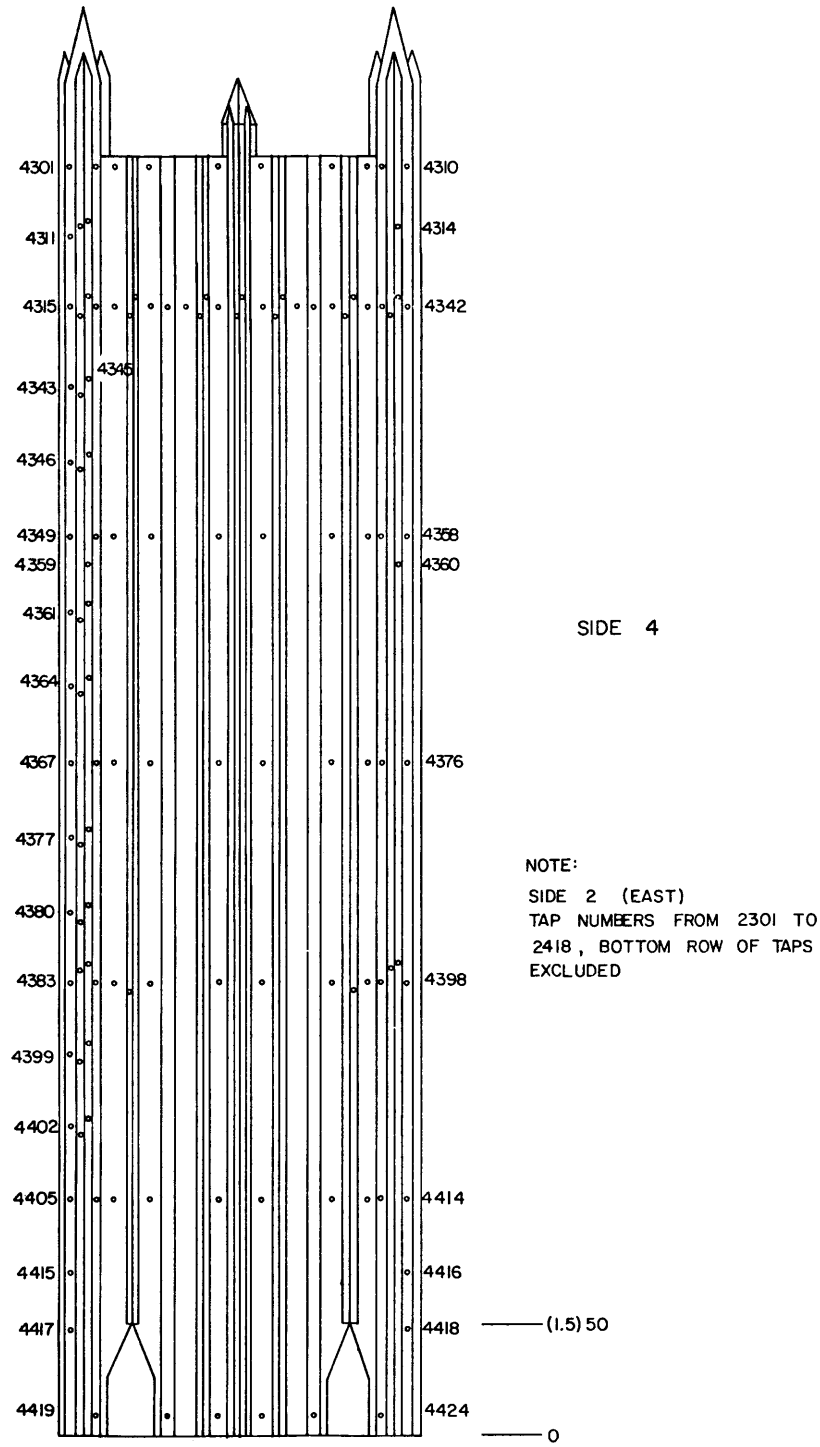
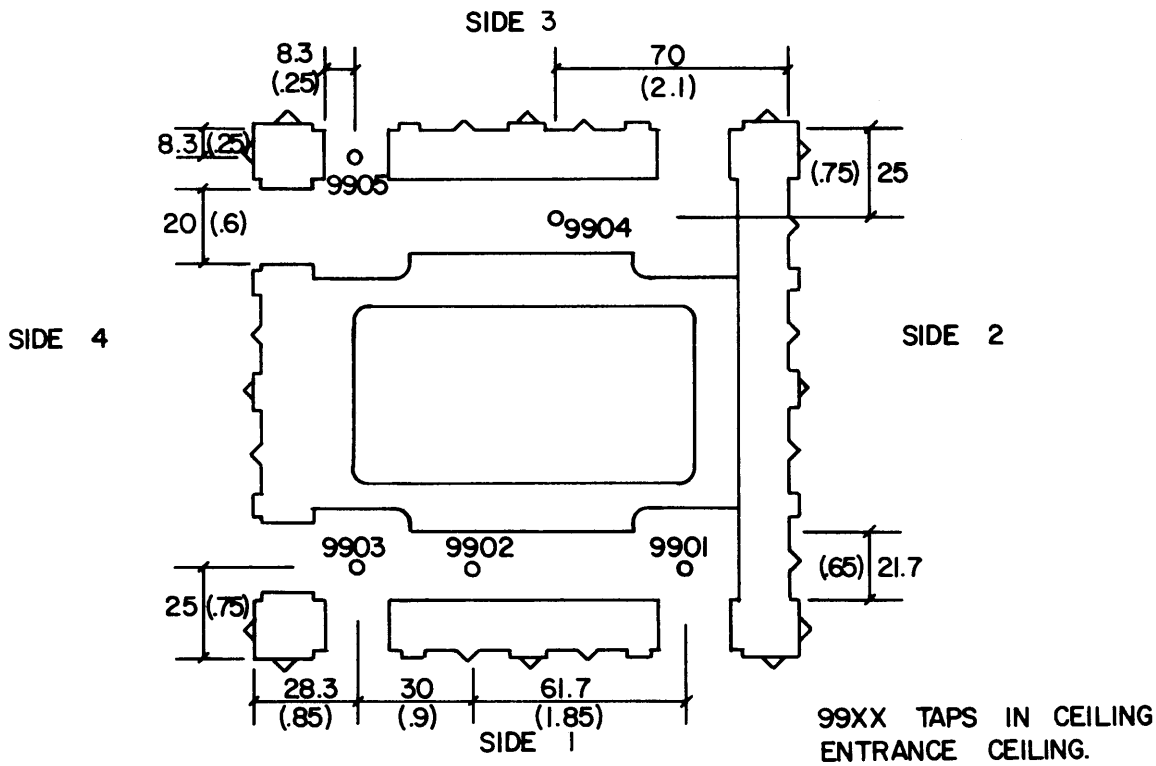


Figure 3e. Pressure Tap Locations



BOTTOM VIEW OF MODEL

FIGURE 3f. PRESSURE TAP LOCATION

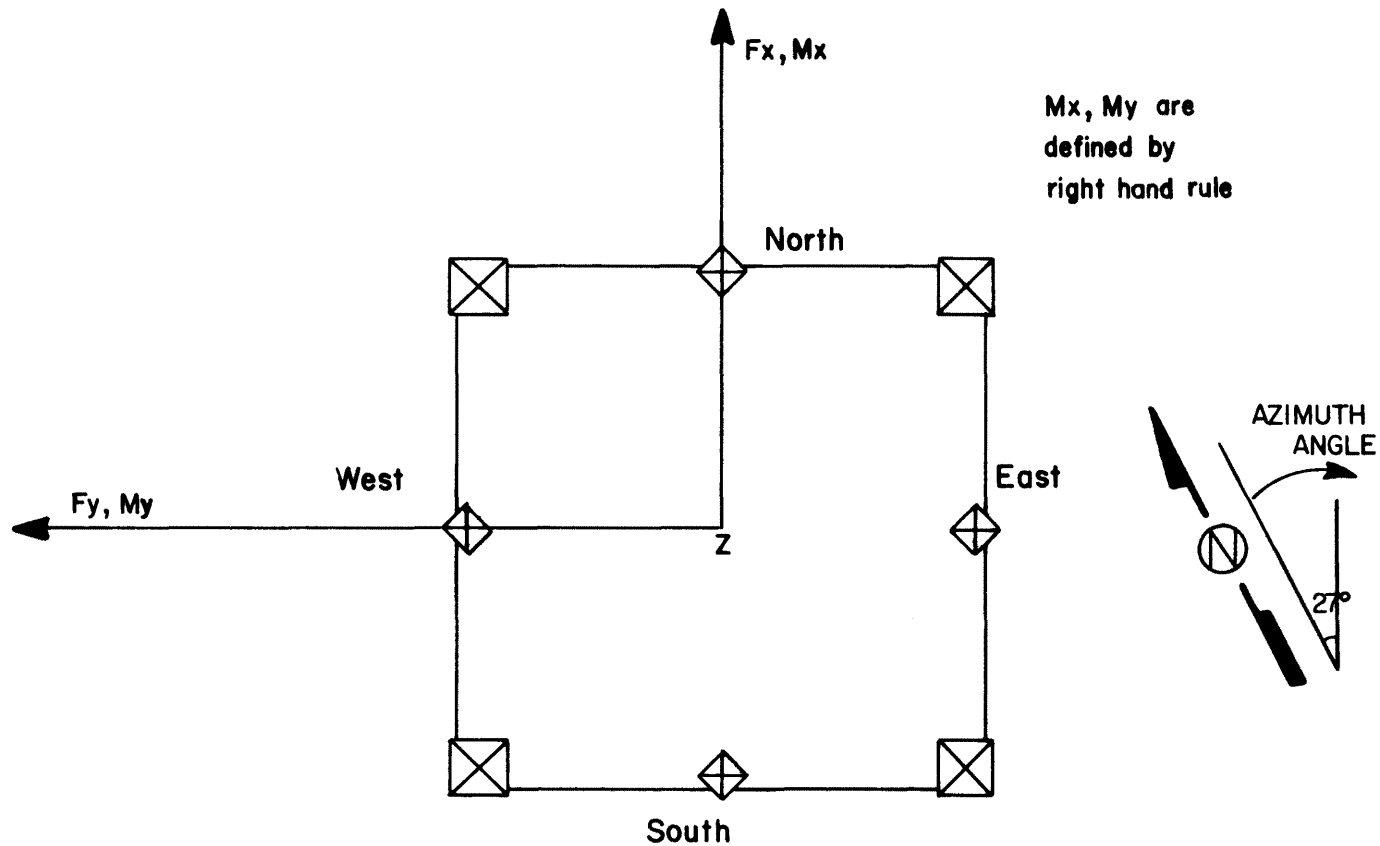
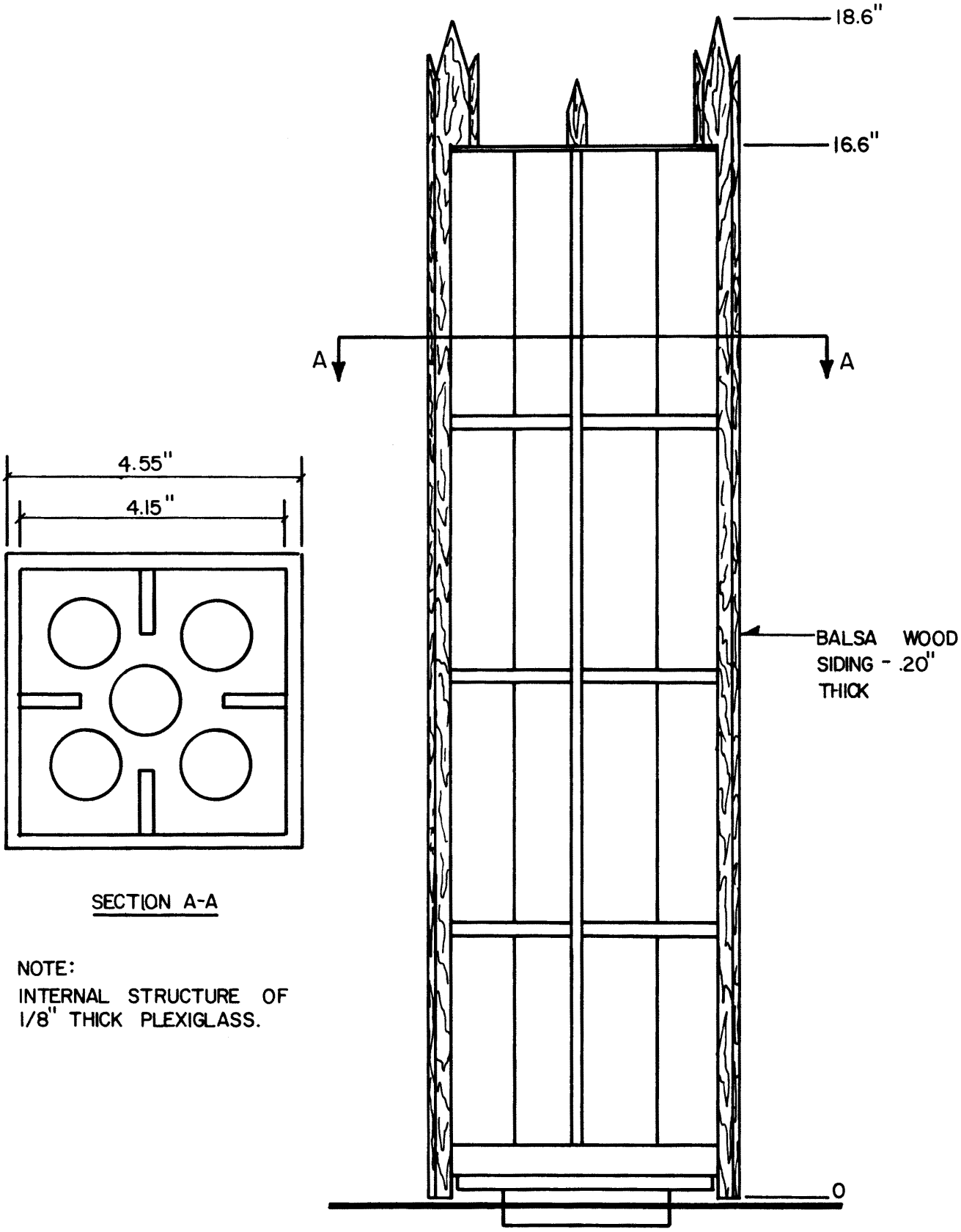


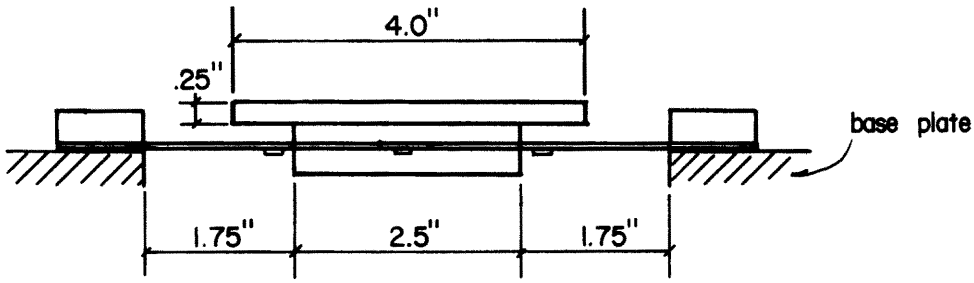
Figure 3g. Force and Moment Coordinate System



SECTION A-A

NOTE:
INTERNAL STRUCTURE OF 1/8" THICK PLEXIGLASS.

FIGURE 4a AEROELASTIC MODEL



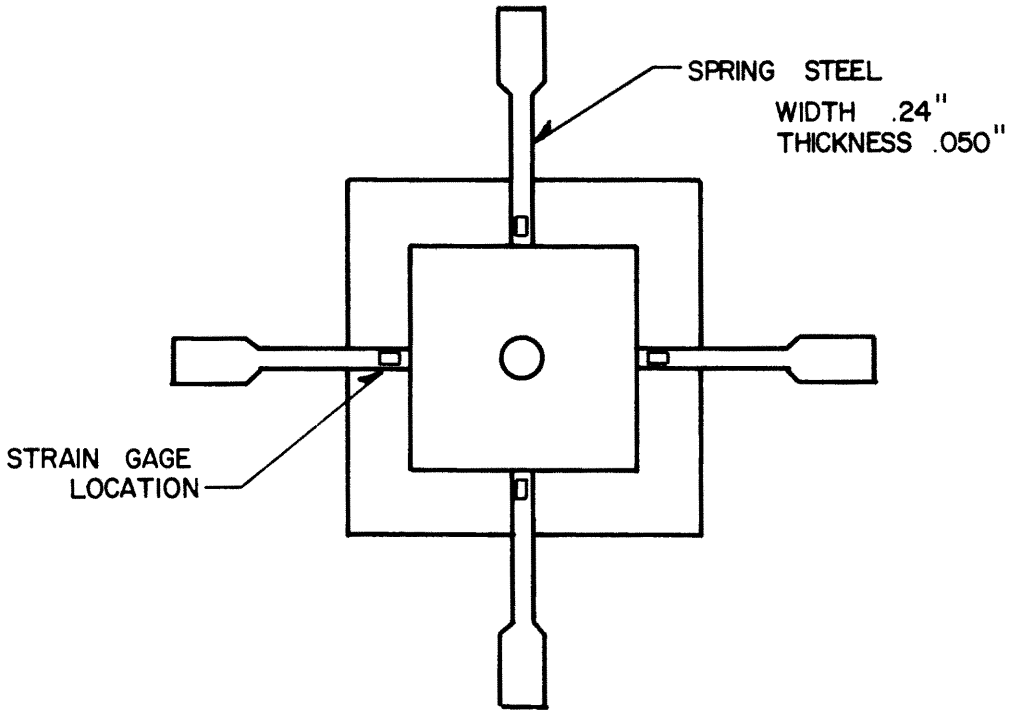


FIGURE 4b AEROELASTIC MODEL

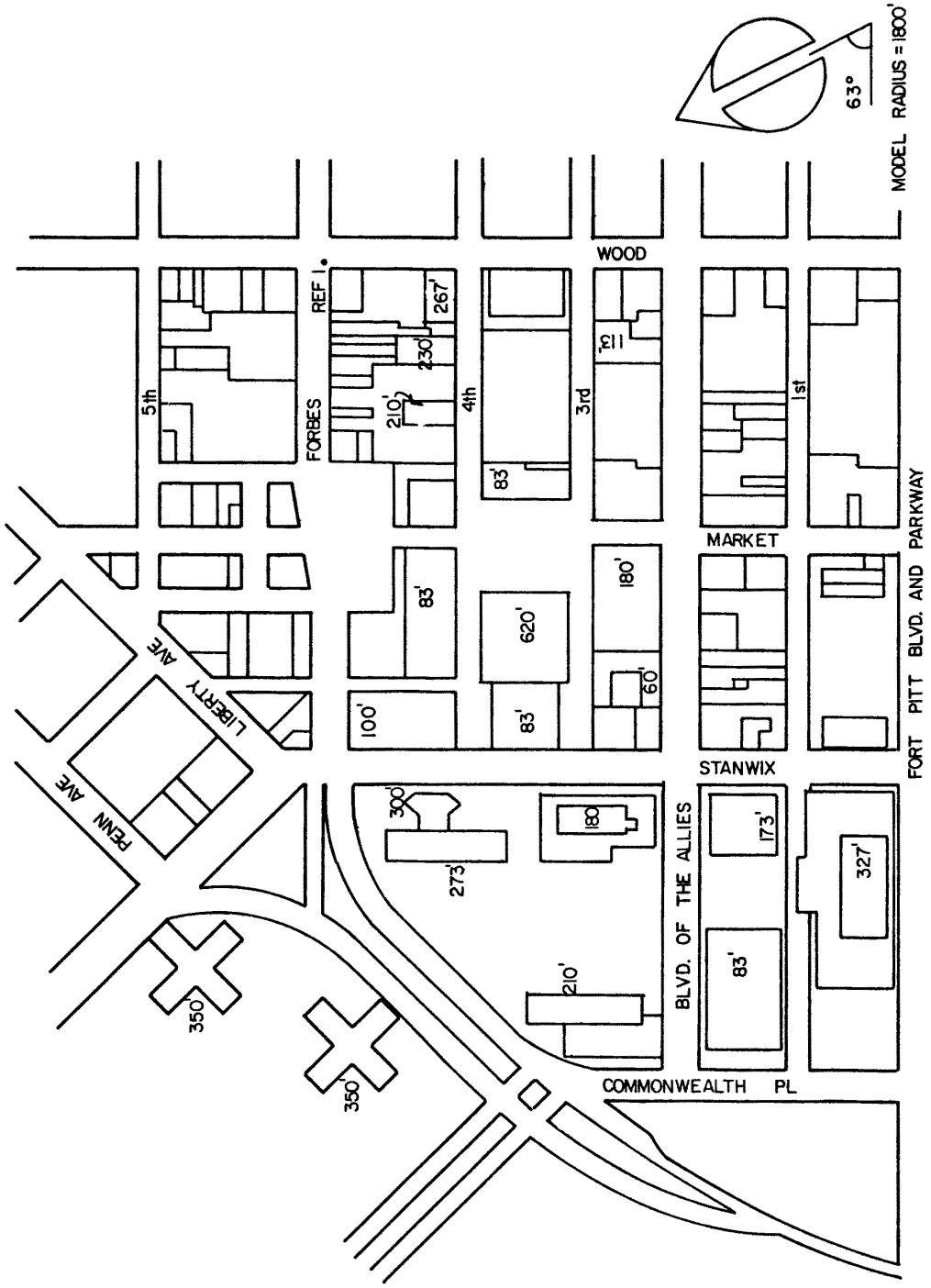


Figure 5a. Building Location and Pedestrian Wind Velocity Measuring Positions

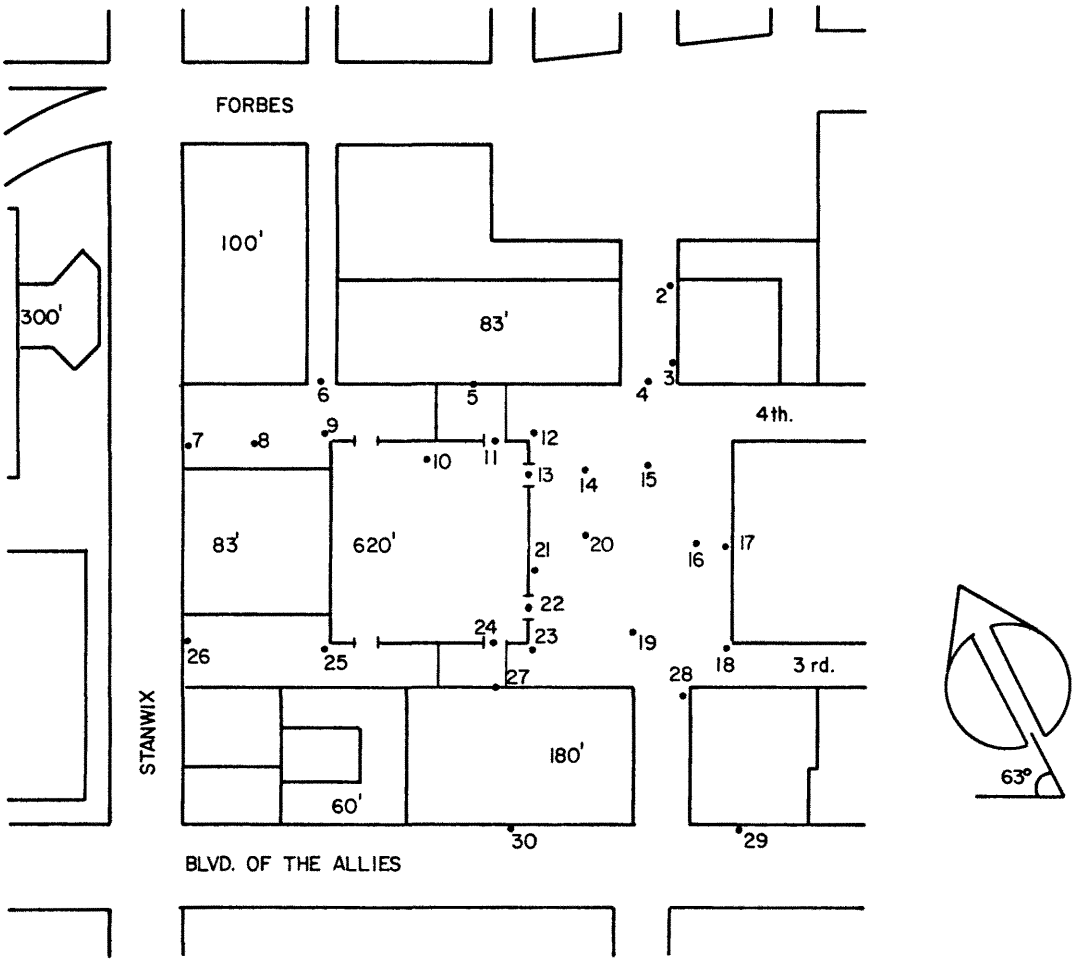
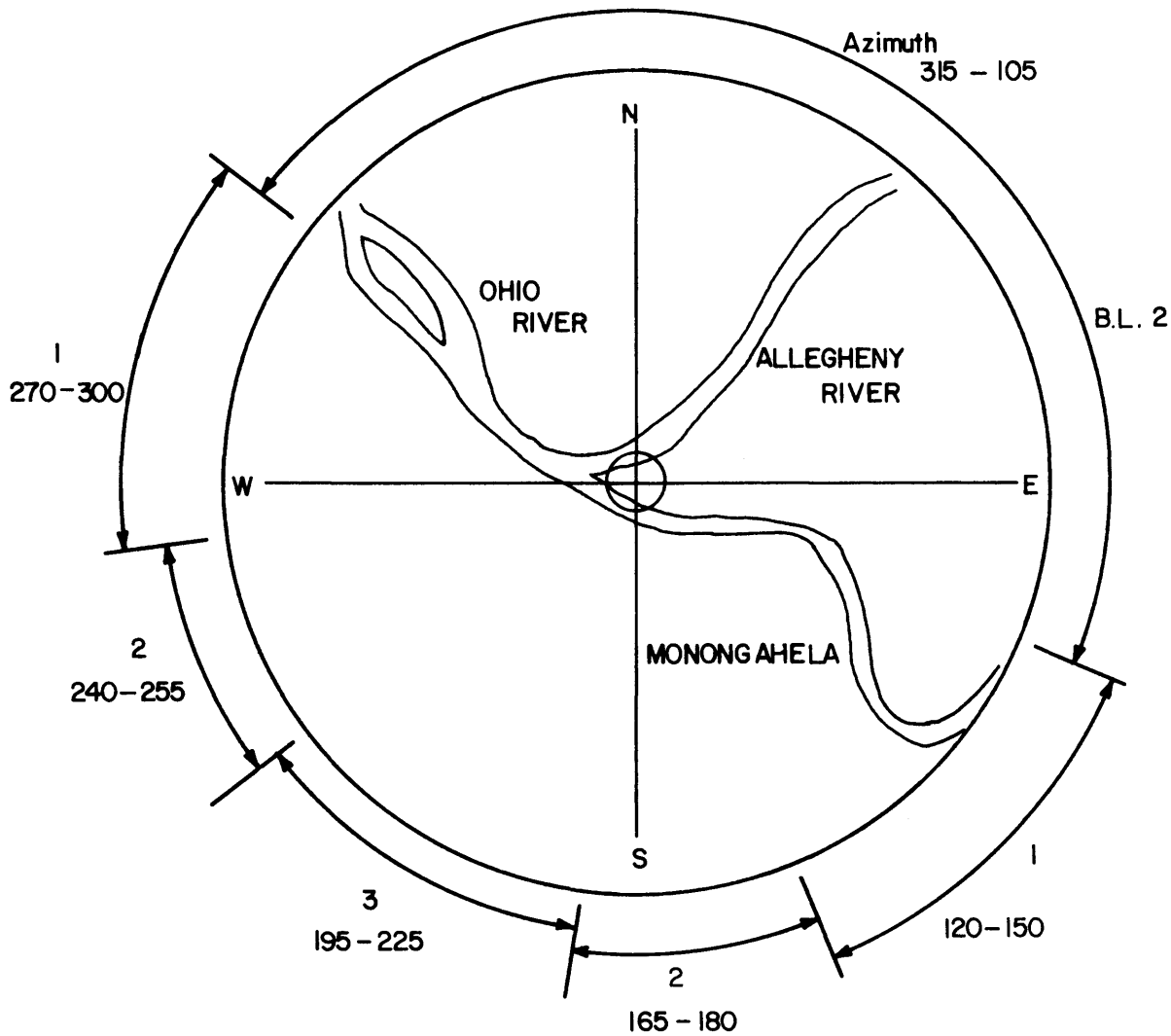


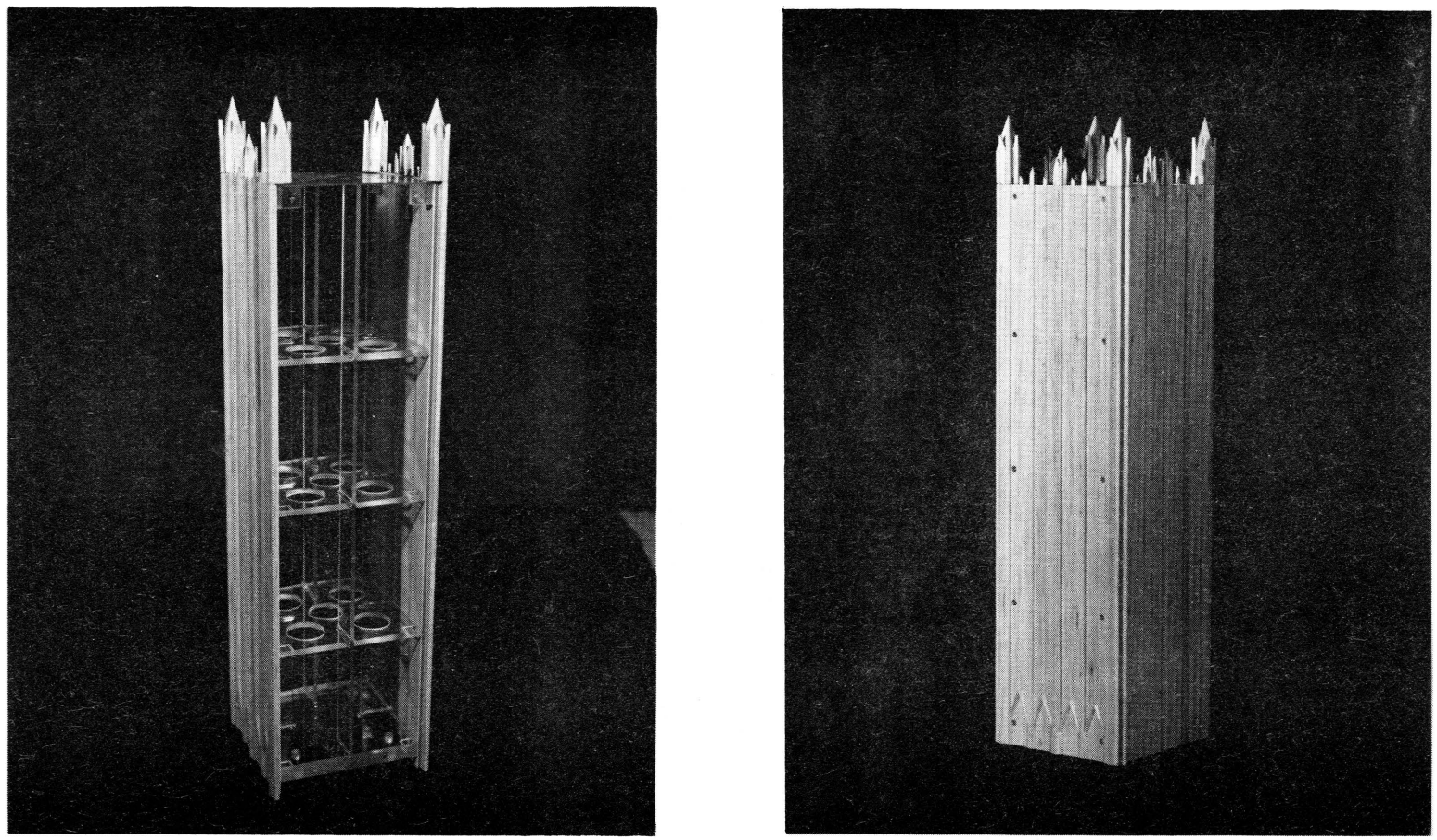
Figure 5b. Building Location and Pedestrian Wind Velocity Measuring Positions



APPROACH VELOCITY PROFILE
(SEE PAGE 19 IN TEXT)

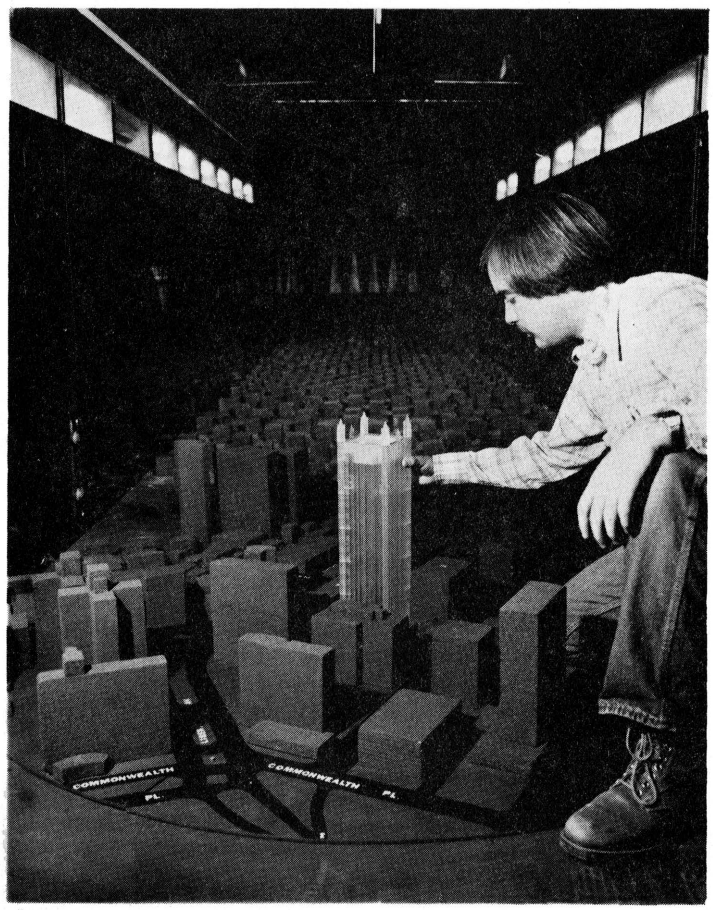
BOUNDARY LAYER	POWER LAW EXPONENT
1	0.28
2	0.38
3	0.48

Figure 5c. Building Location



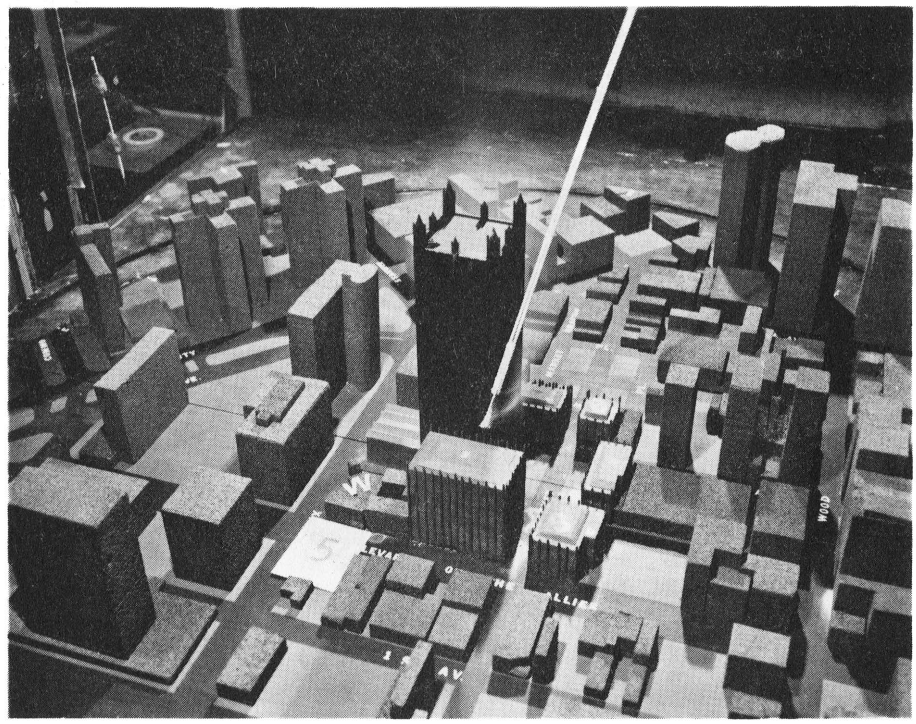
Aeroelastic Model

Figure 6a. Photographs of Models

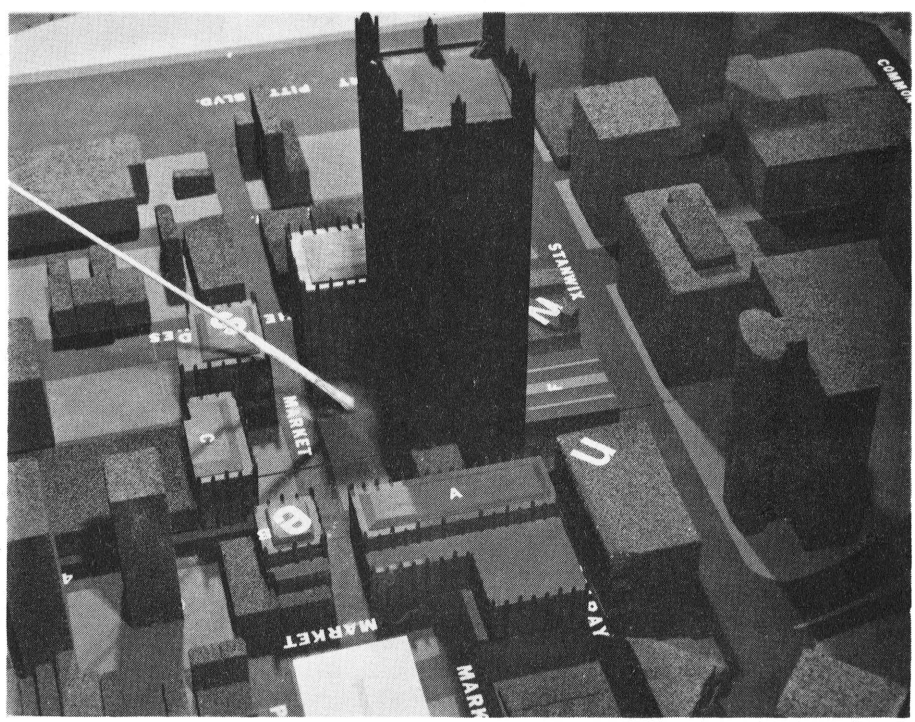


Model in the Wind Tunnel

Figure 6b. Photographs of Models

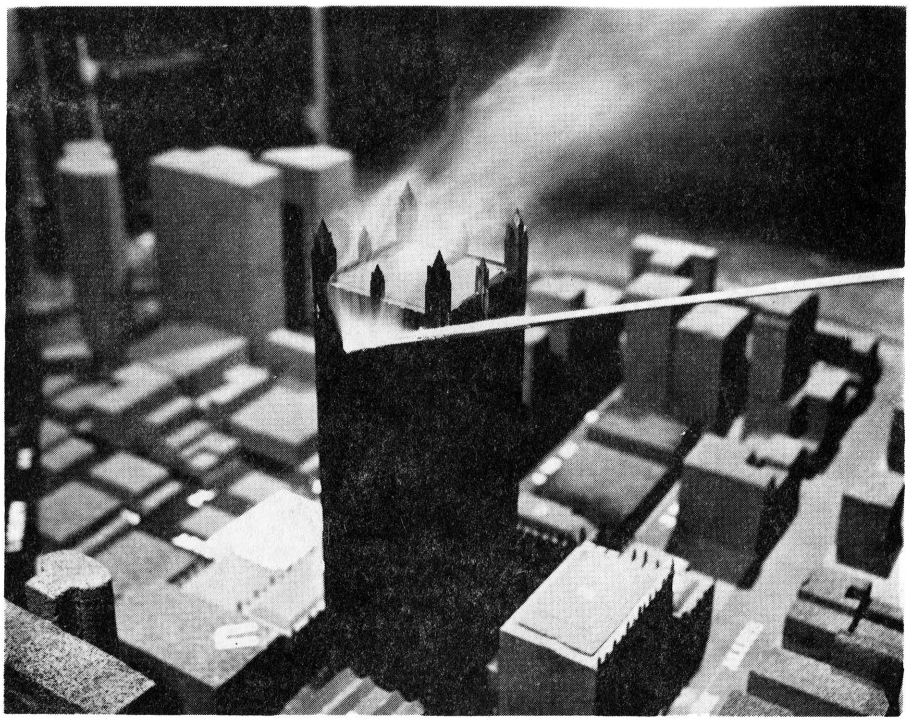


View Looking North

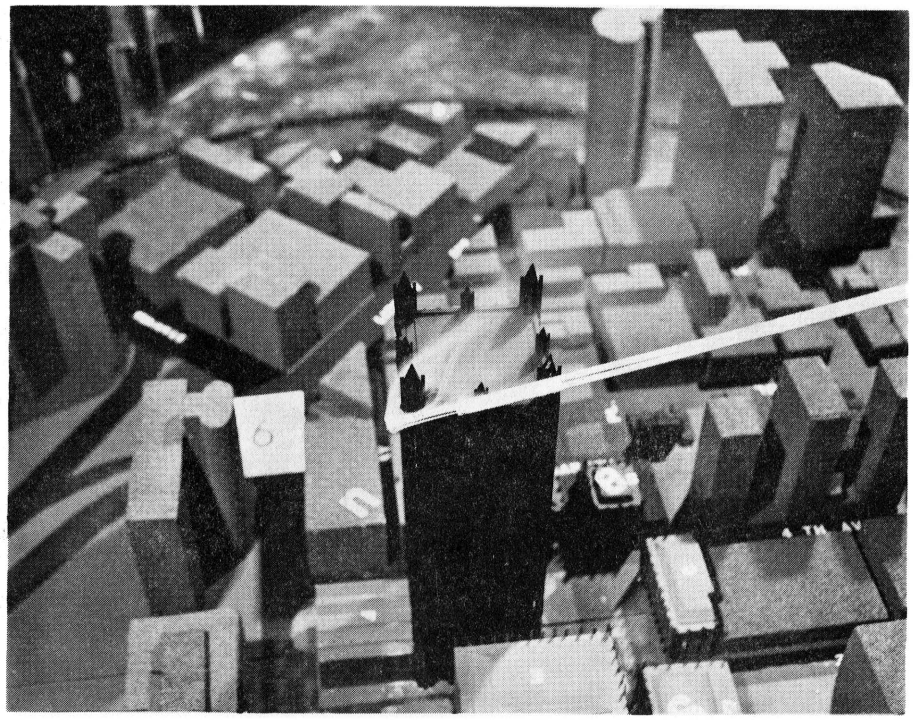


View Looking Southwest

Figure 6c. Photographs of Models



Flow Over Roof



Flow About Finials

Figure 6d. Photographs of Models

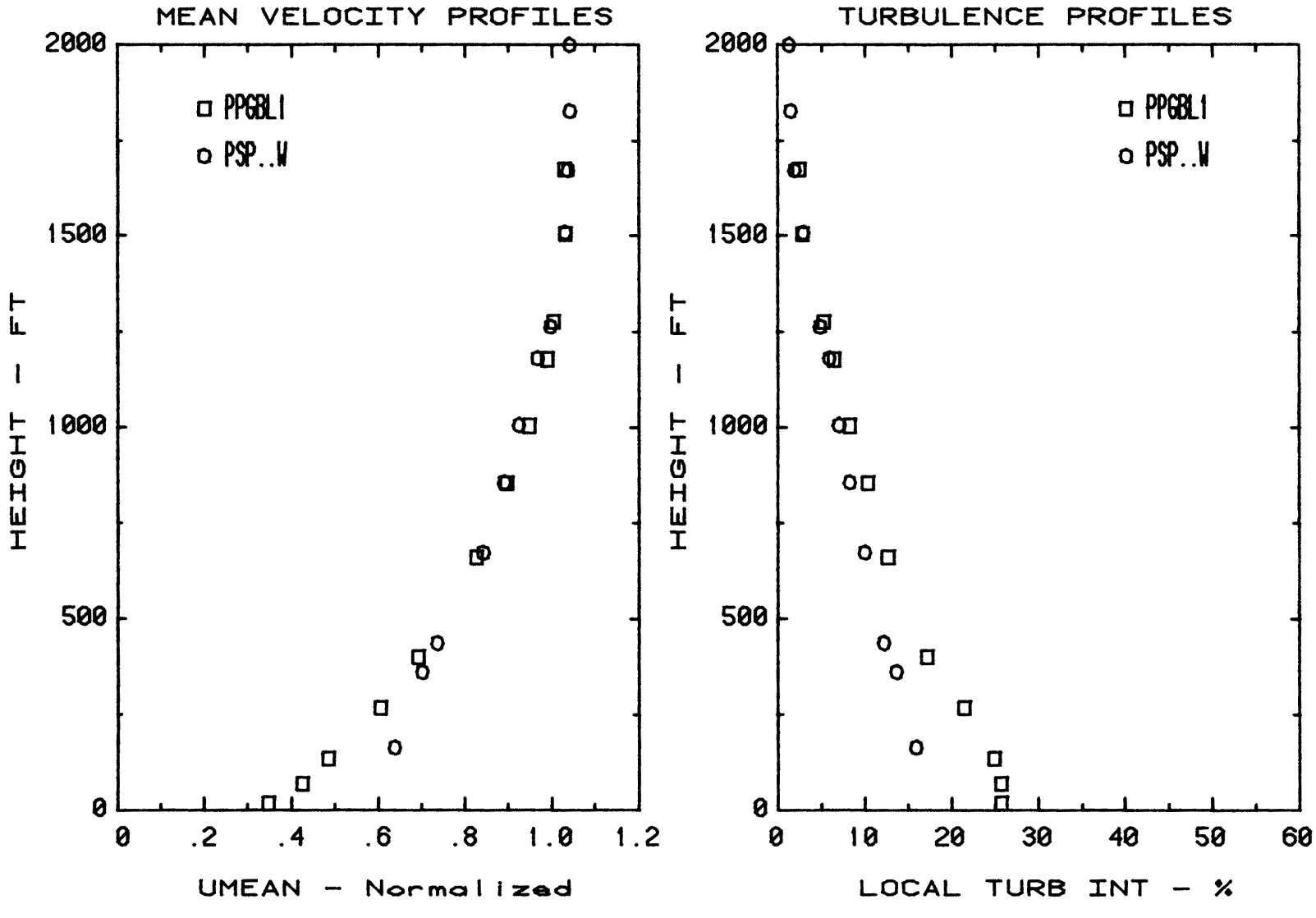


Figure 7a. Velocity Profiles at Point State Park and at the Building Site

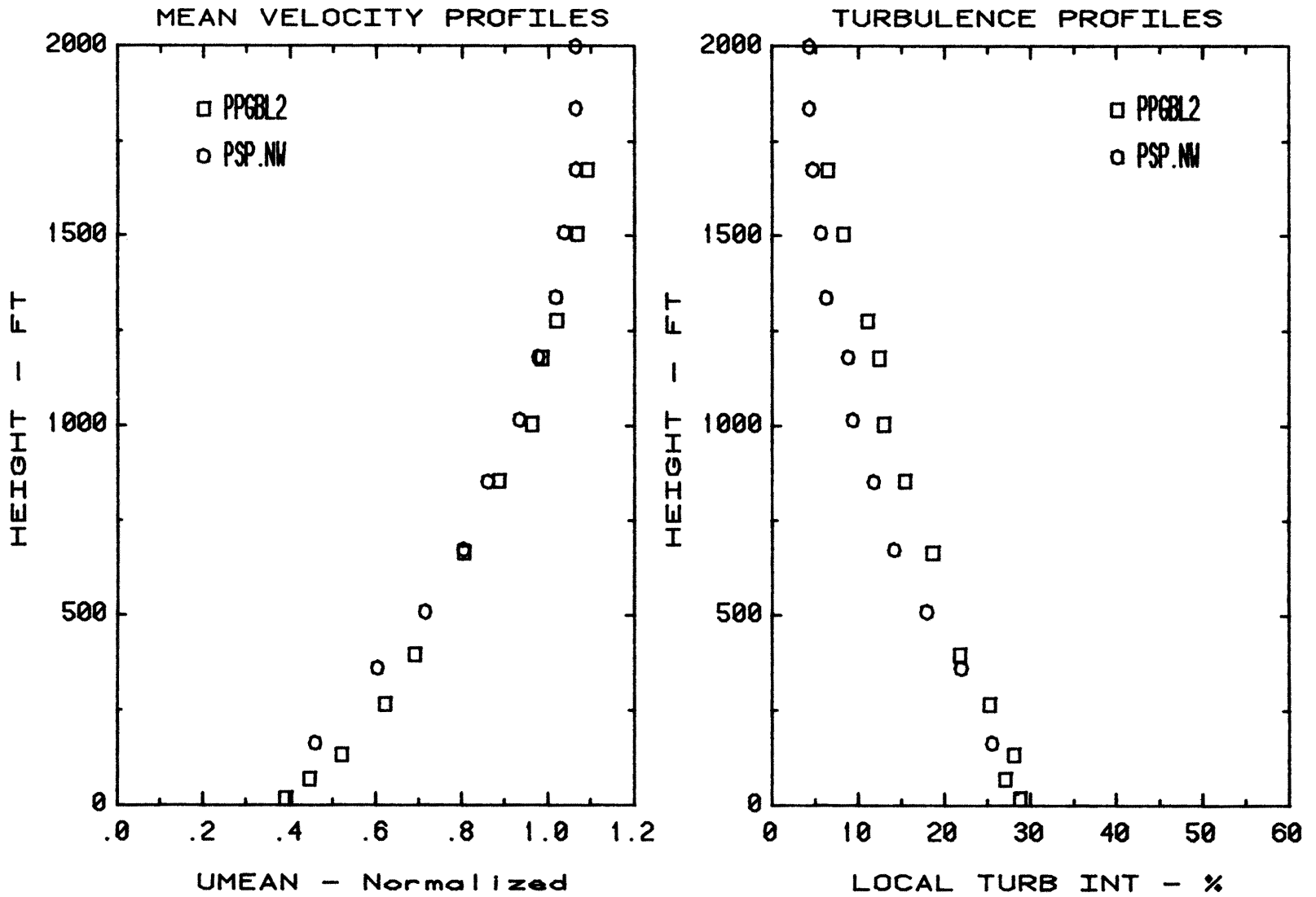


Figure 7b. Velocity Profiles at Point State Park and at the Building Site

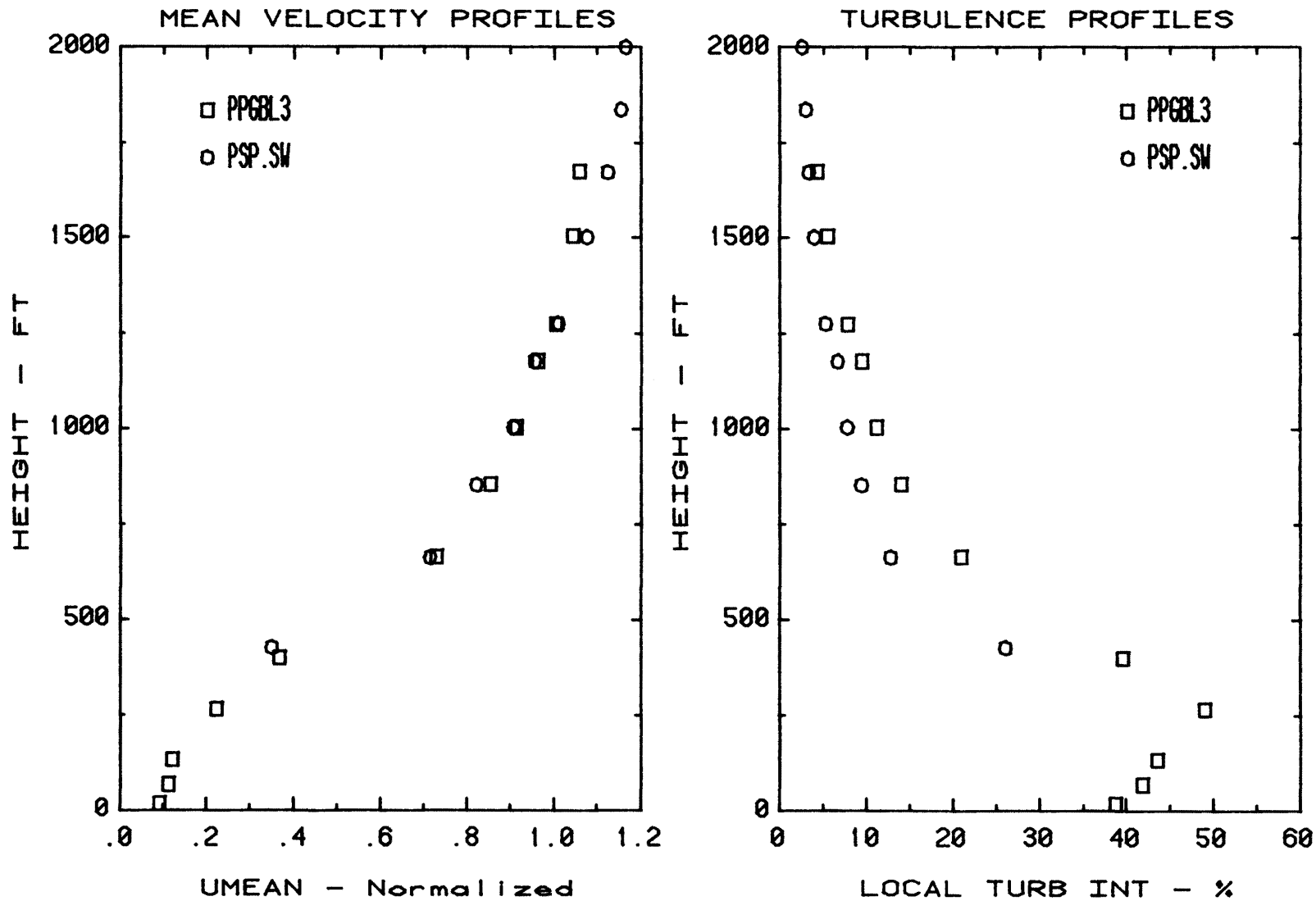


Figure 7c. Velocity Profiles at Point State Park and at the Building Site

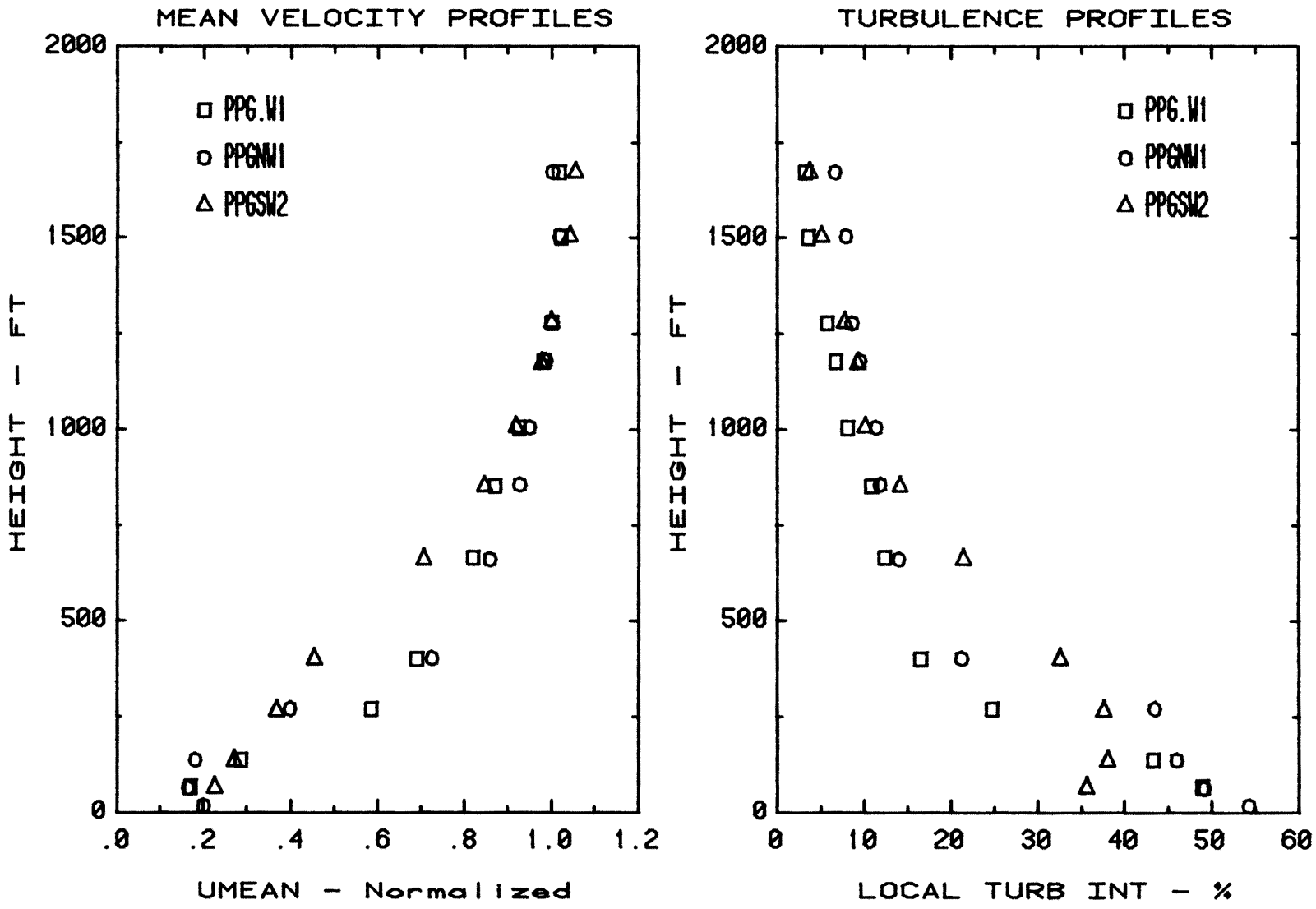


Figure 7d. Velocity Profiles at Point State Park and at the Building Site

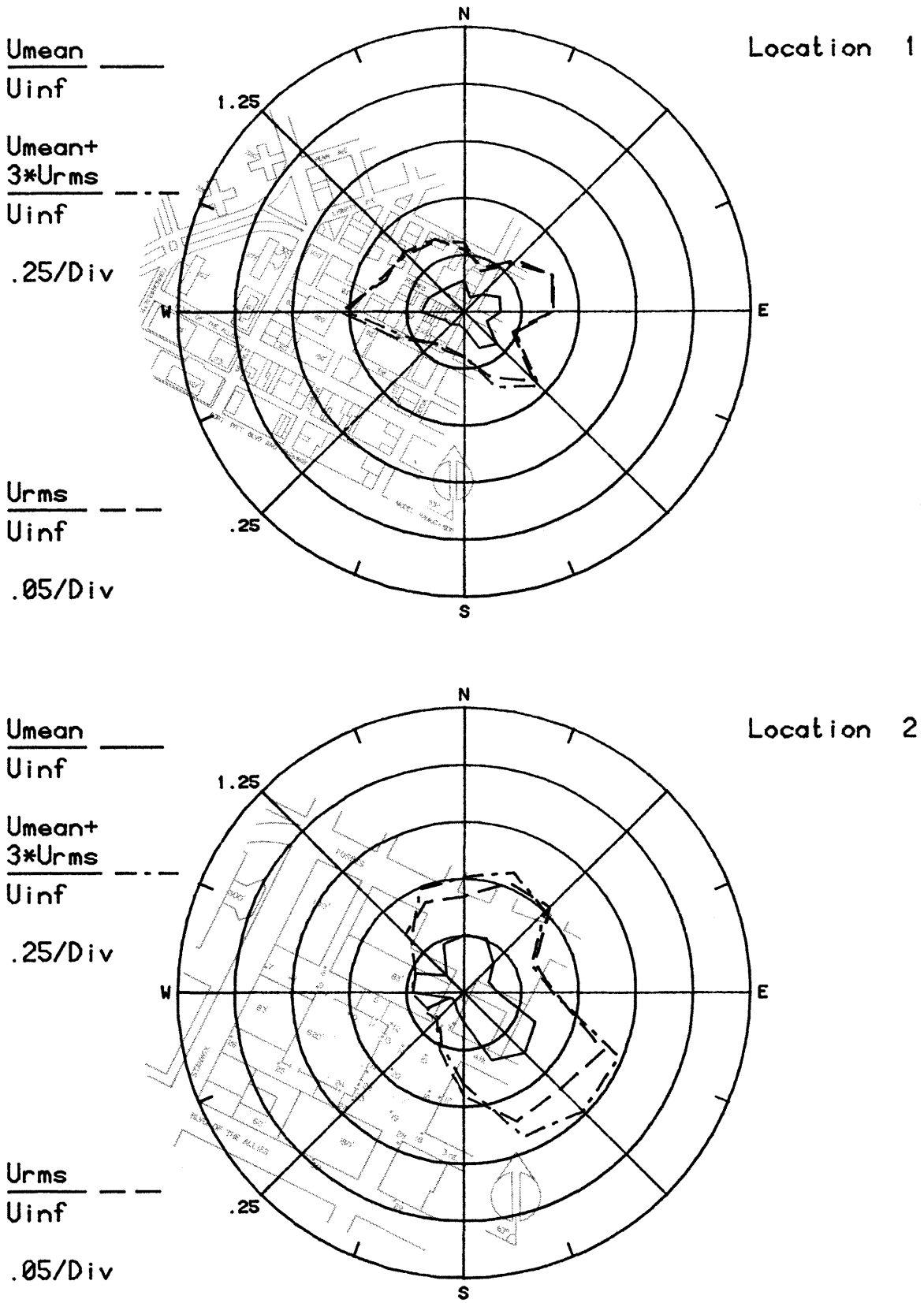


Figure 8a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2

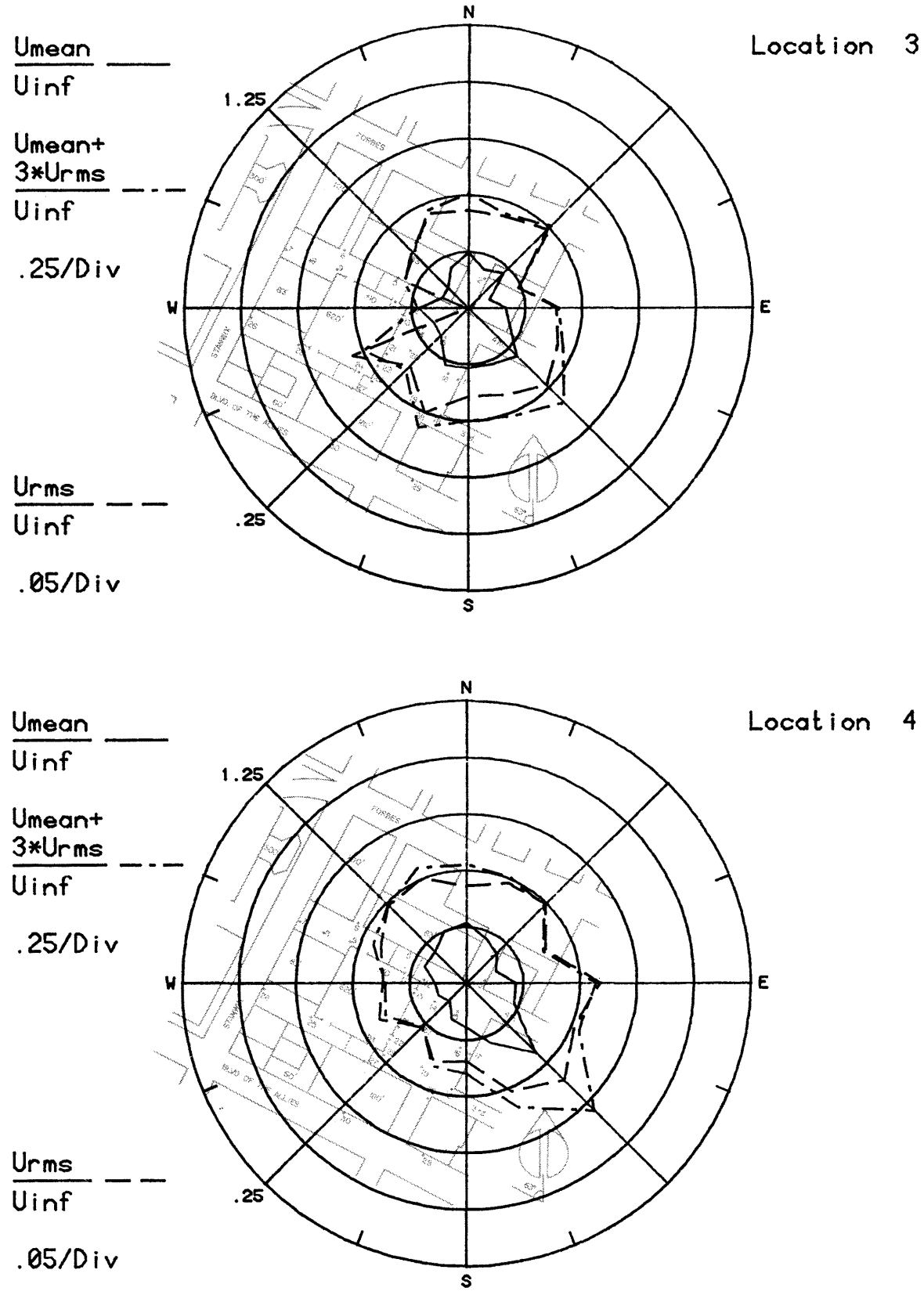


Figure 8b. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

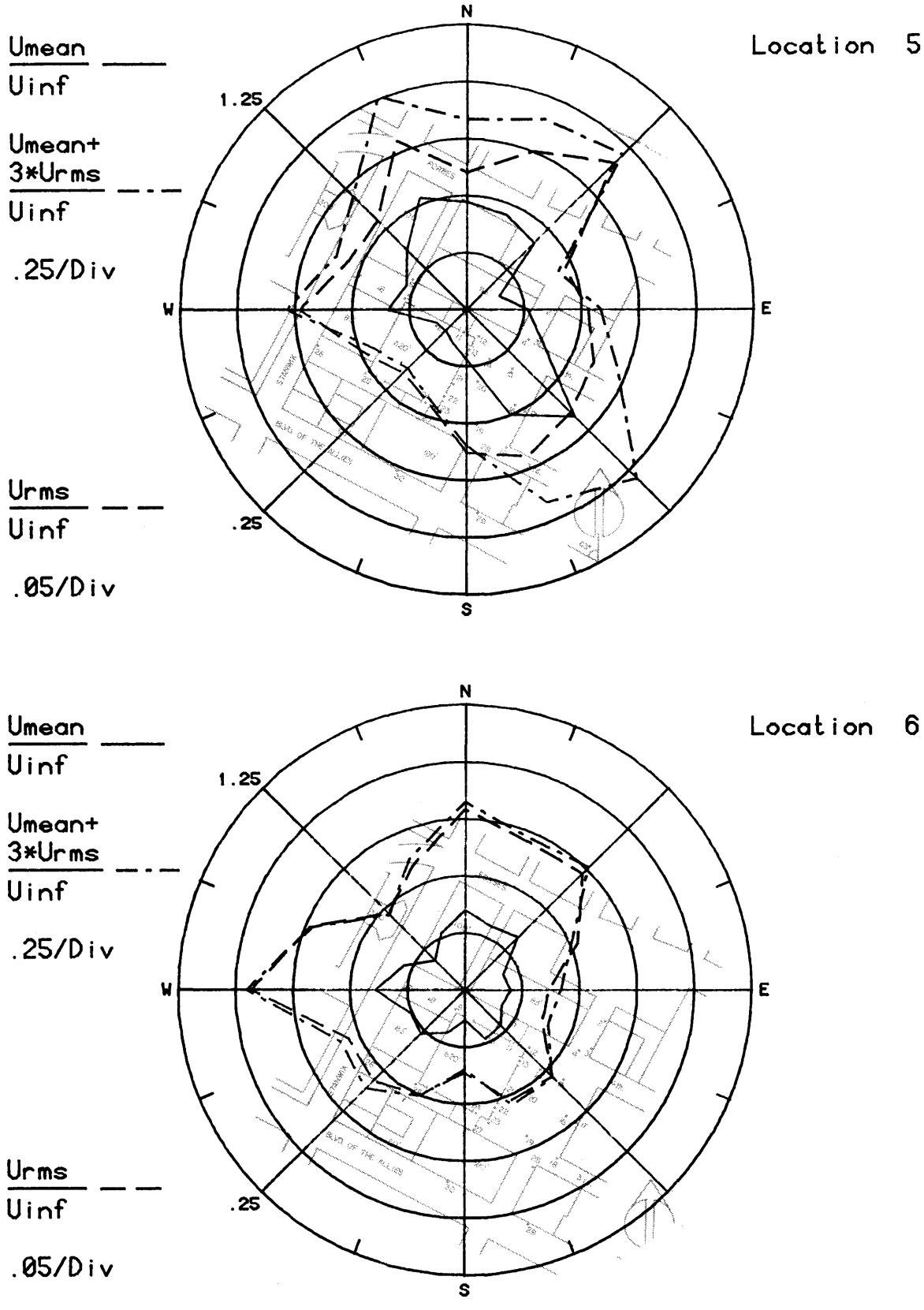


Figure 8c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

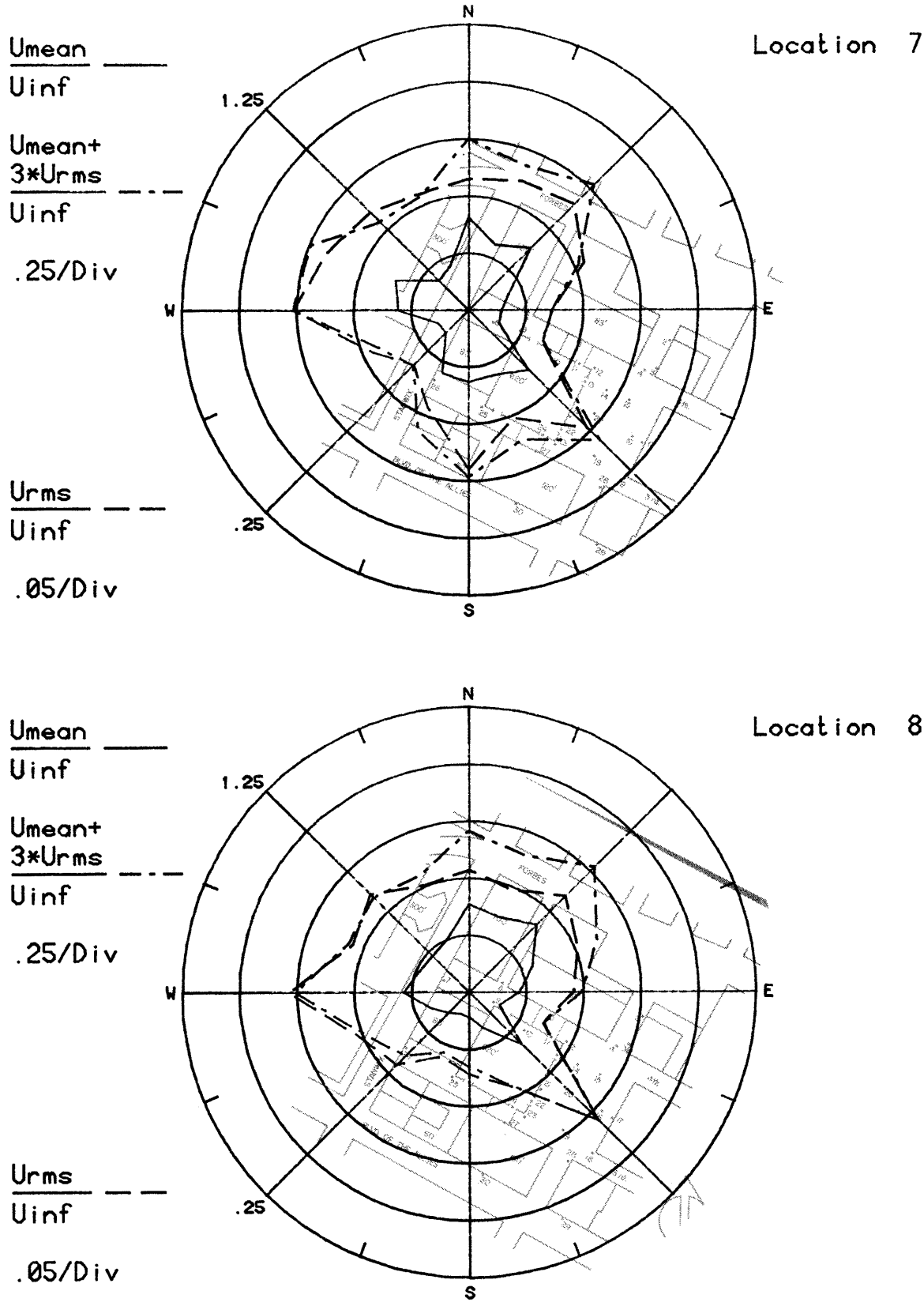
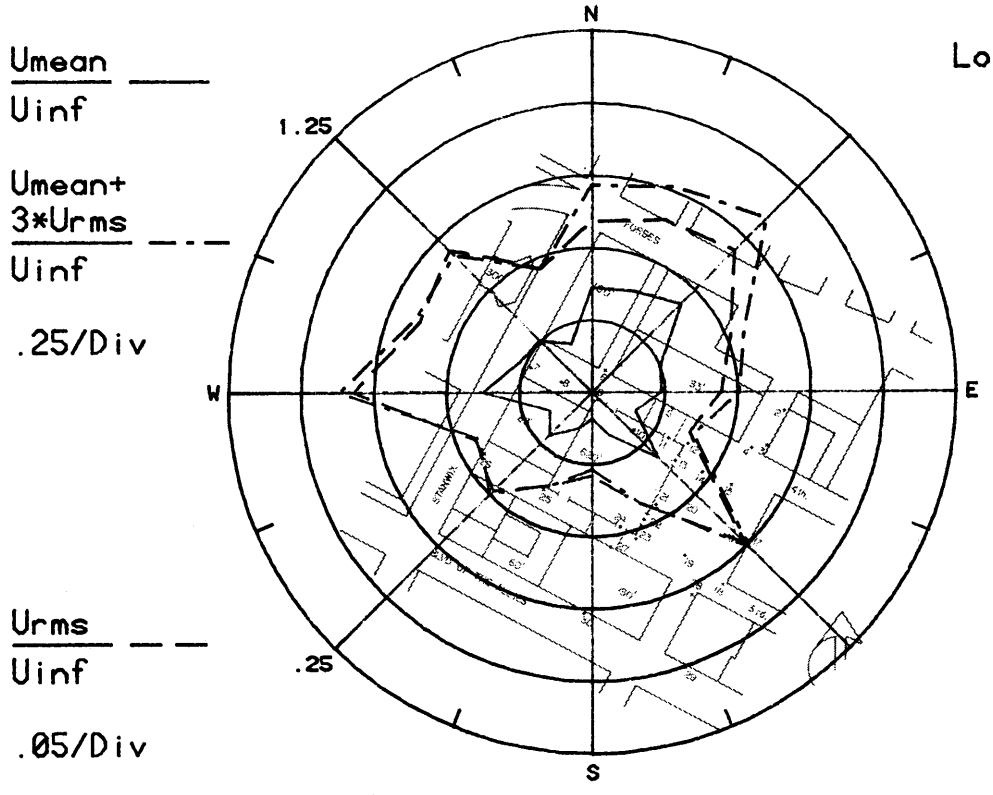


Figure 8d. Mean Velocities and Turbulence Intensities at Pedestrian Locations 7 and 8



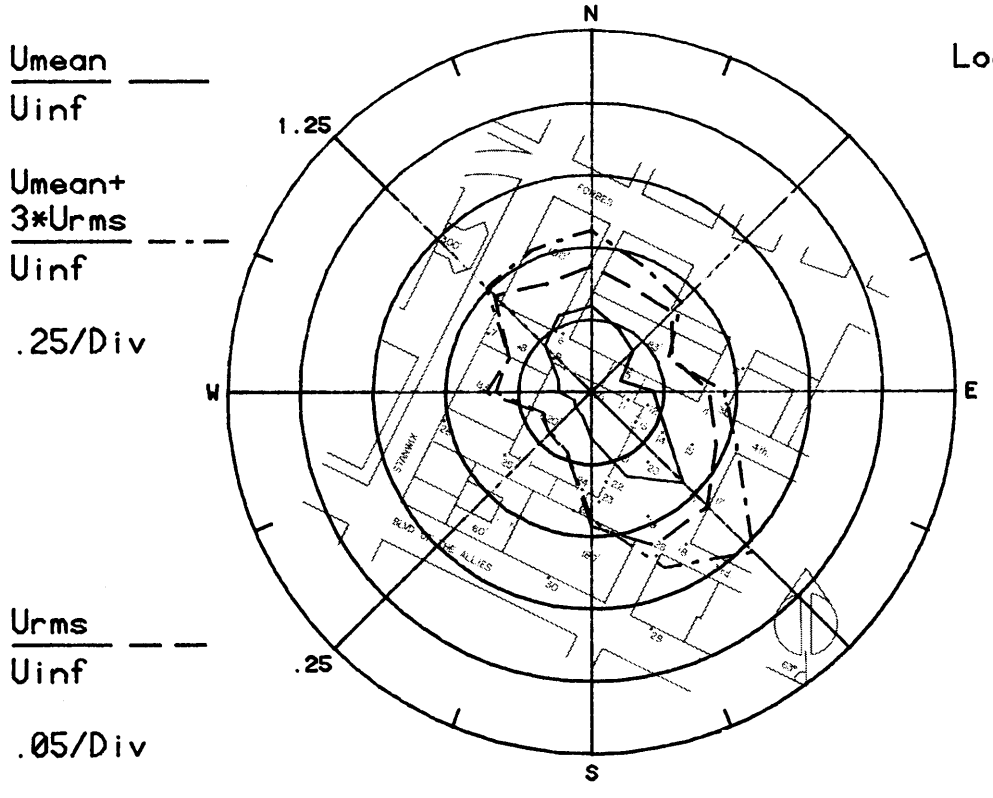


Figure 8e. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

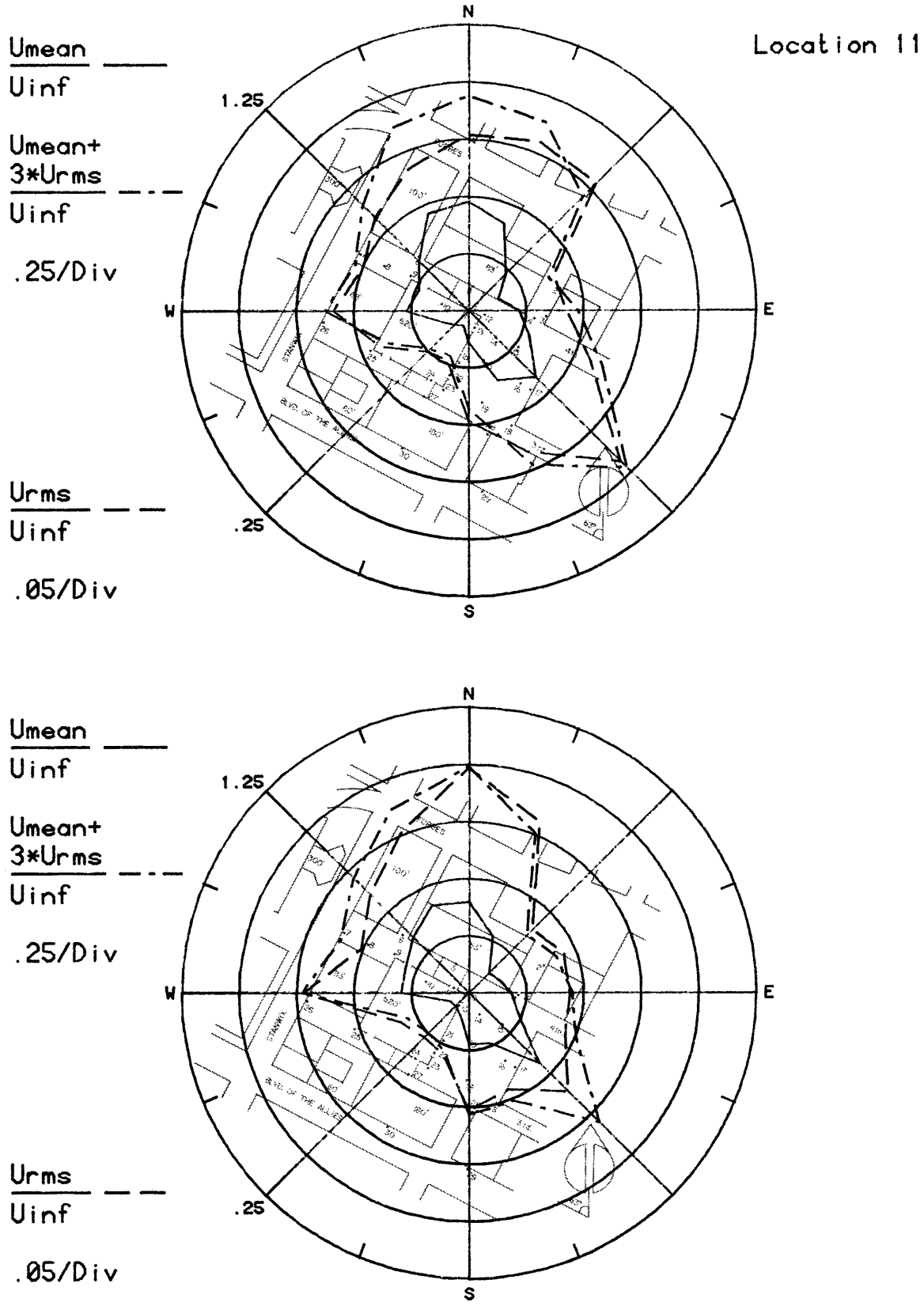


Figure 8f. Mean Velocities and Turbulence Intensities at Pedestrian Locations 11 and 12

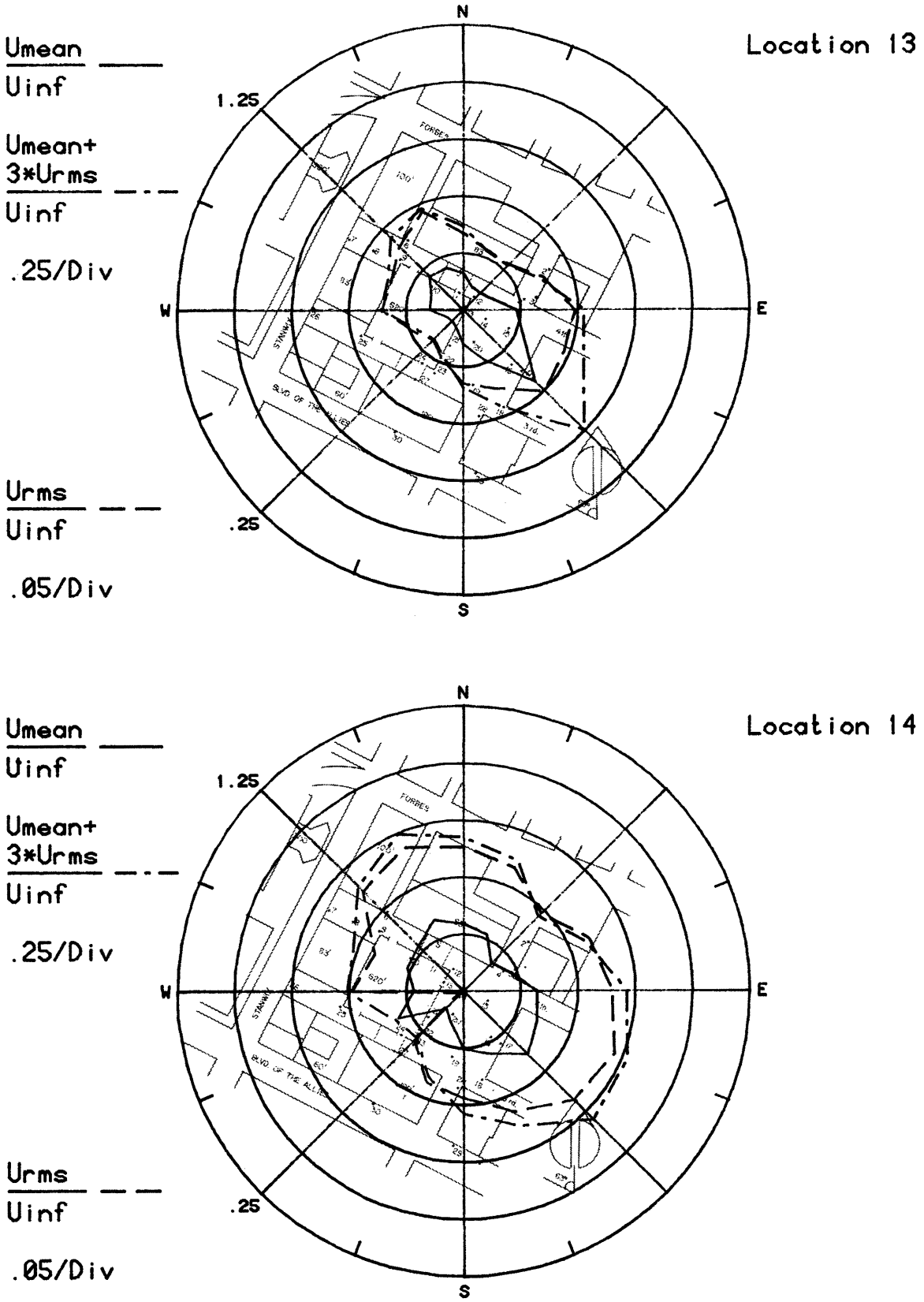


Figure 8g. Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

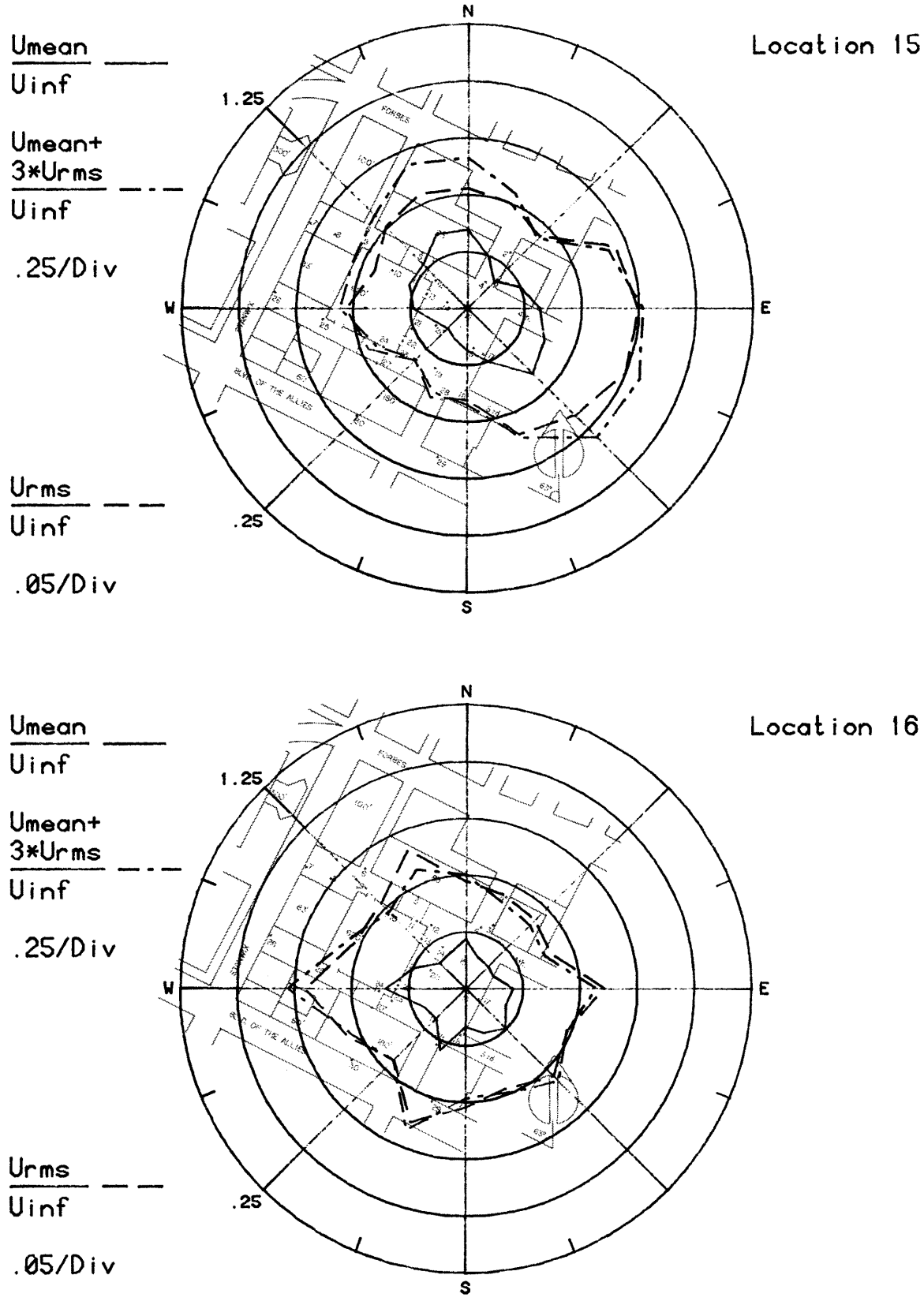
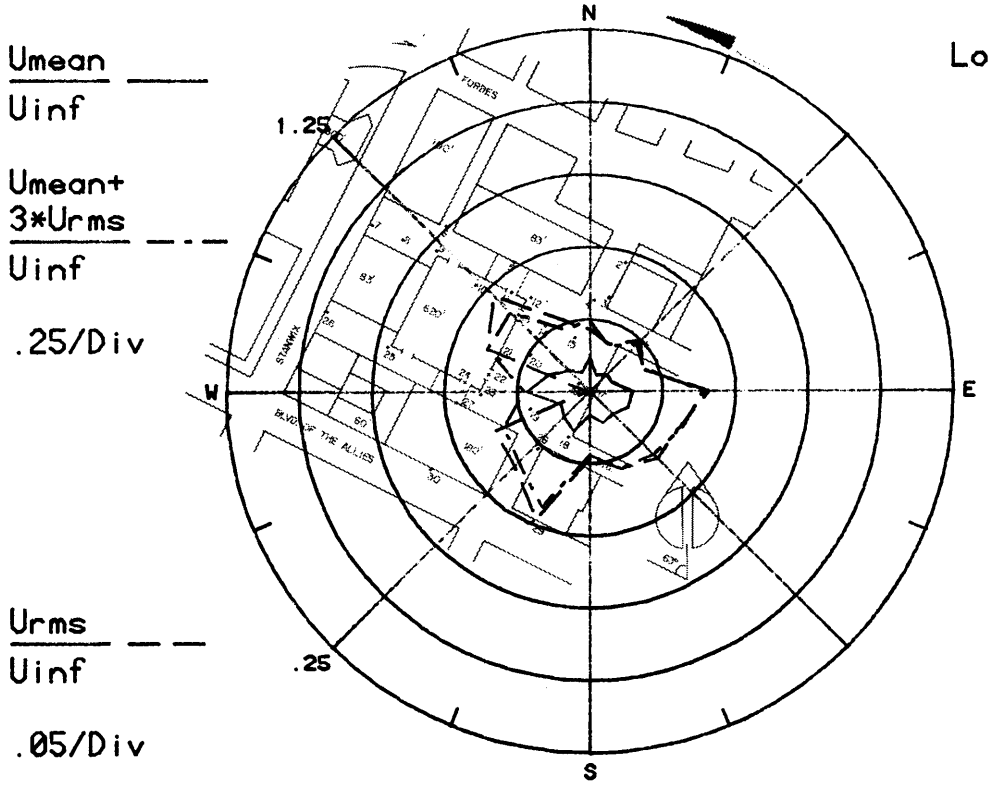


Figure 8h. Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16



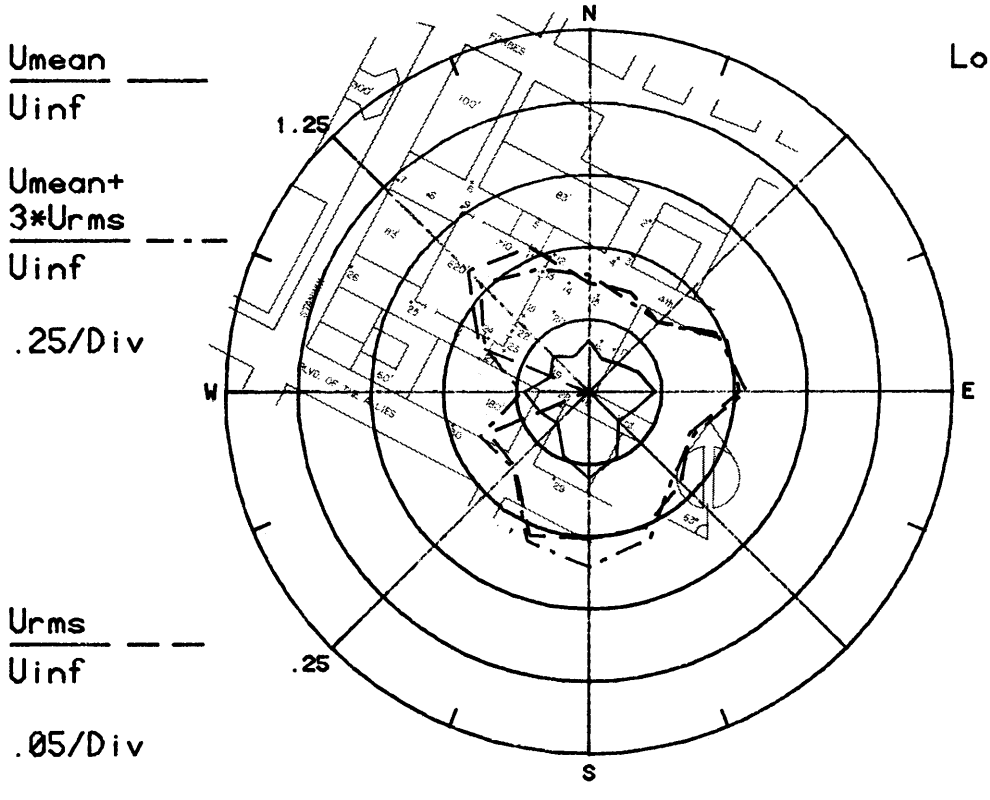


Figure 8i. Mean Velocities and Turbulence Intensities at Pedestrian Locations 17 and 18

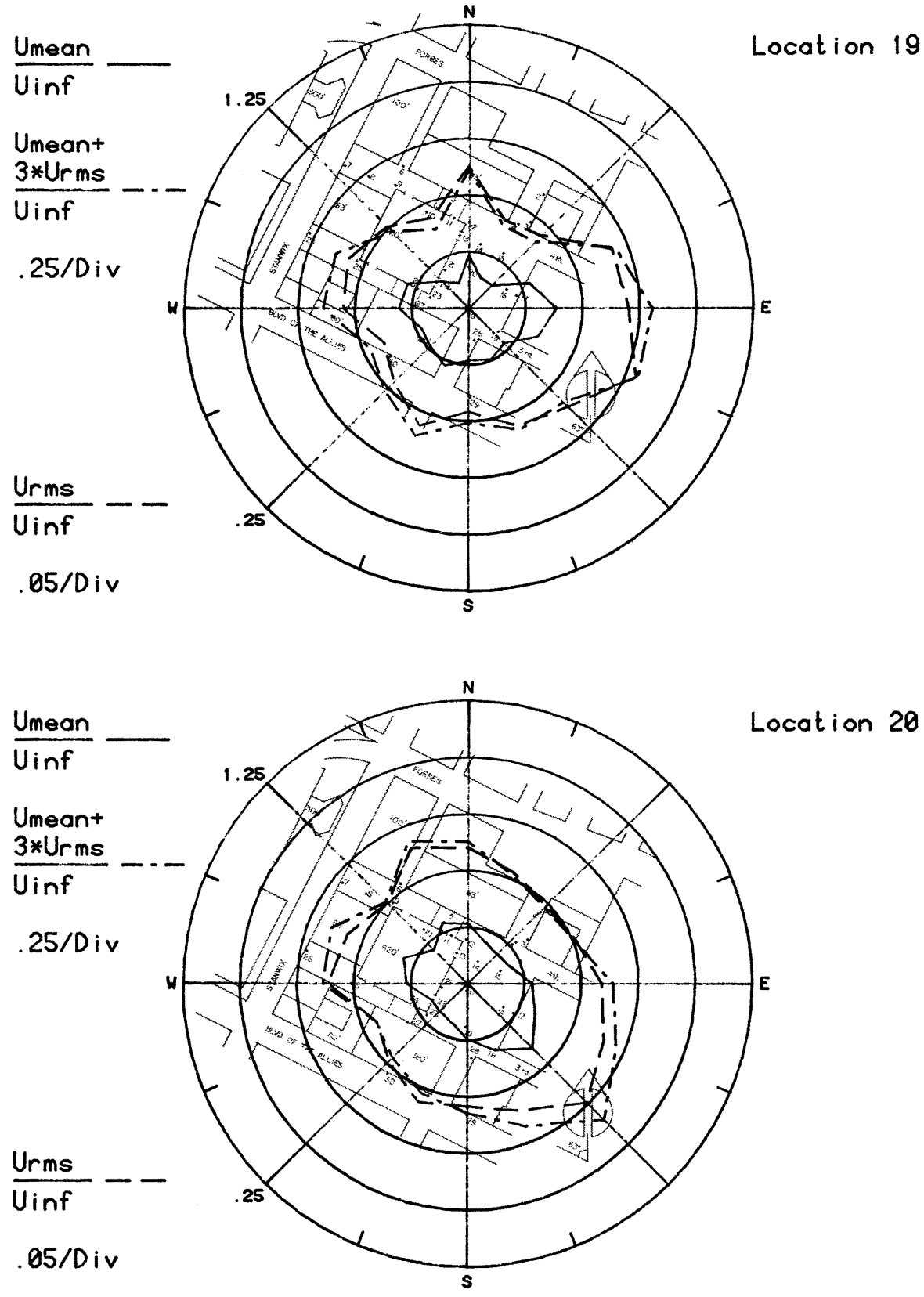
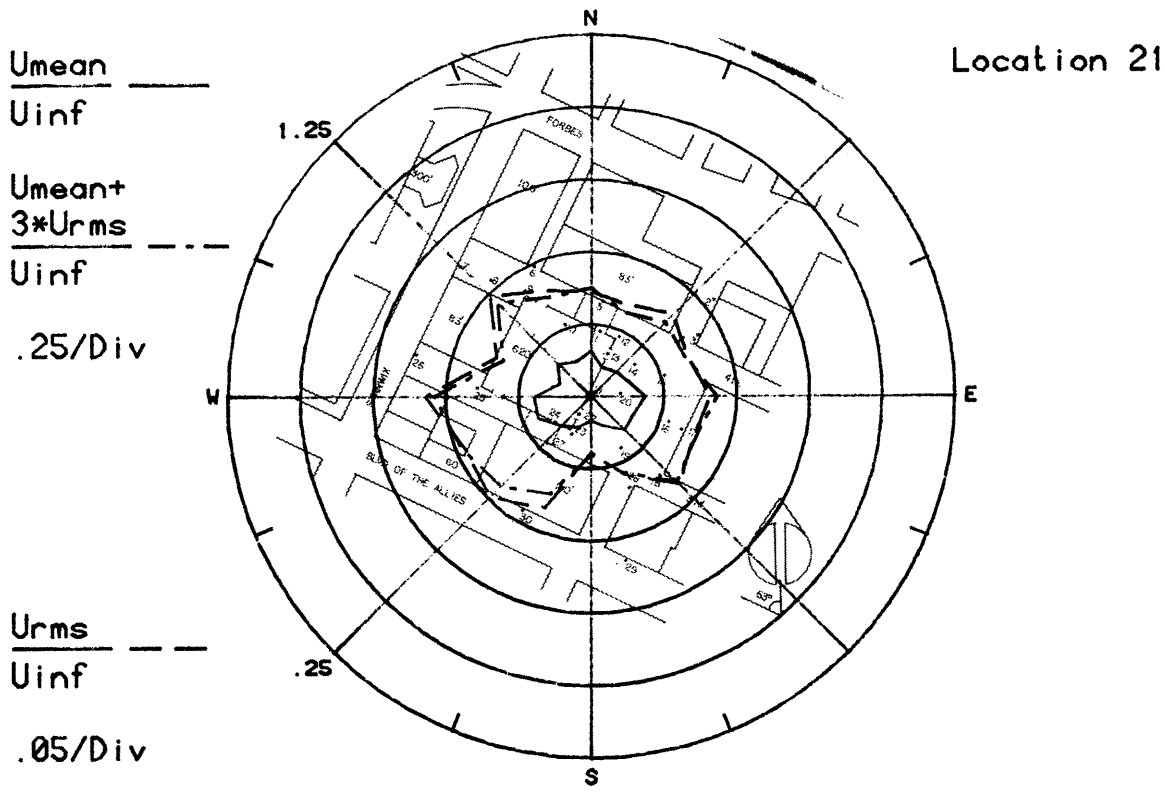


Figure 8j. Mean Velocities and Turbulence Intensities at Pedestrian Locations 19 and 20



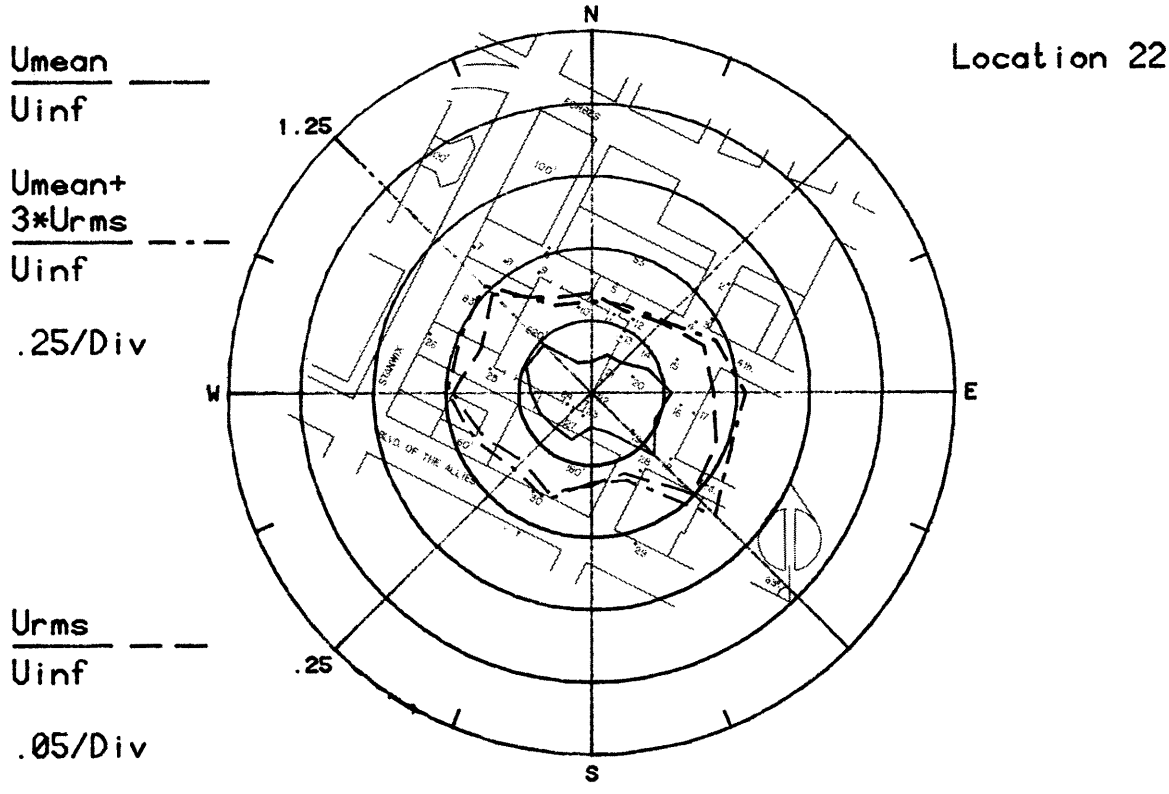


Figure 8k. Mean Velocities and Turbulence Intensities at Pedestrian Locations 21 and 22

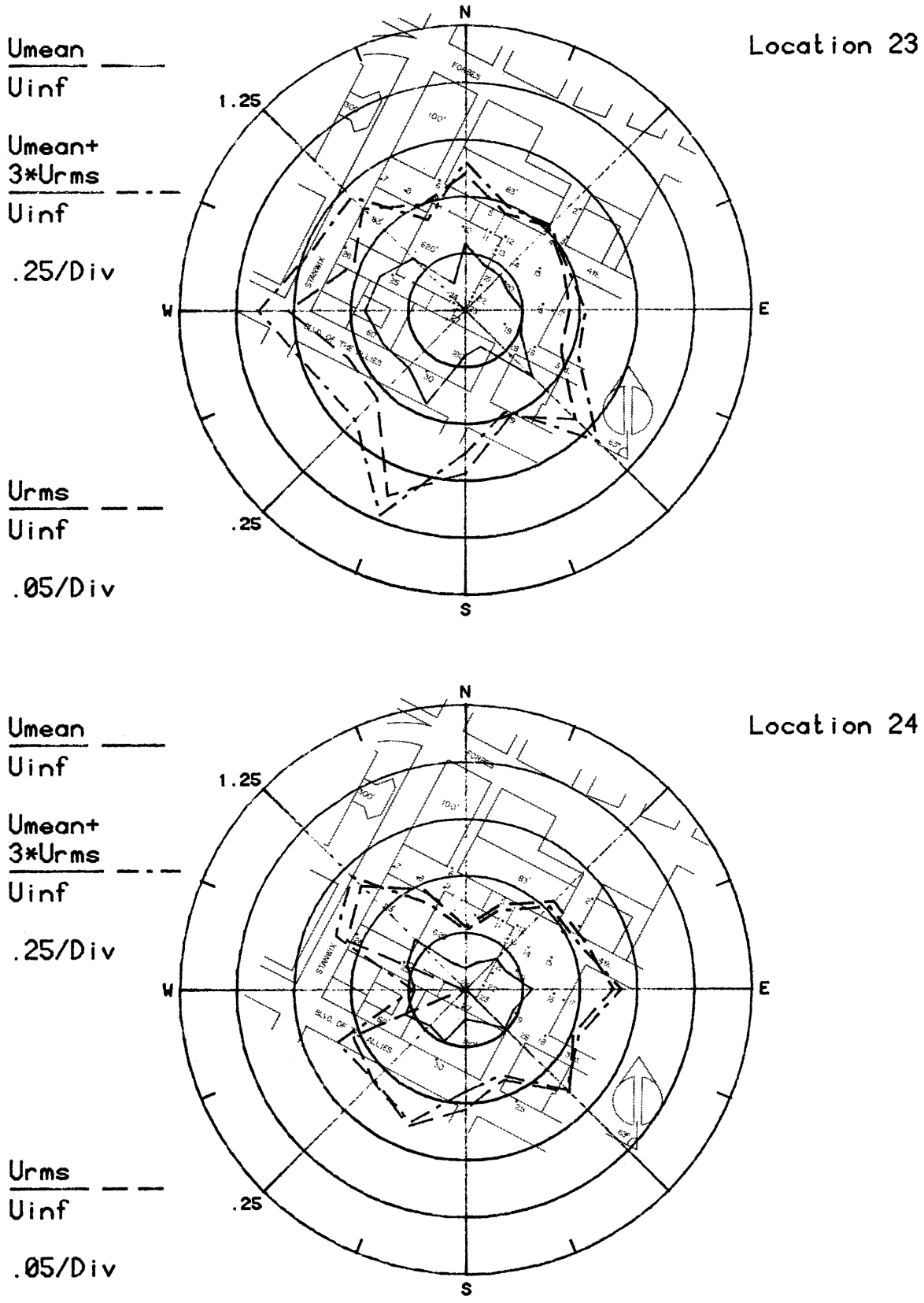


Figure 81. Mean Velocities and Turbulence Intensities at Pedestrian Locations 23 and 24

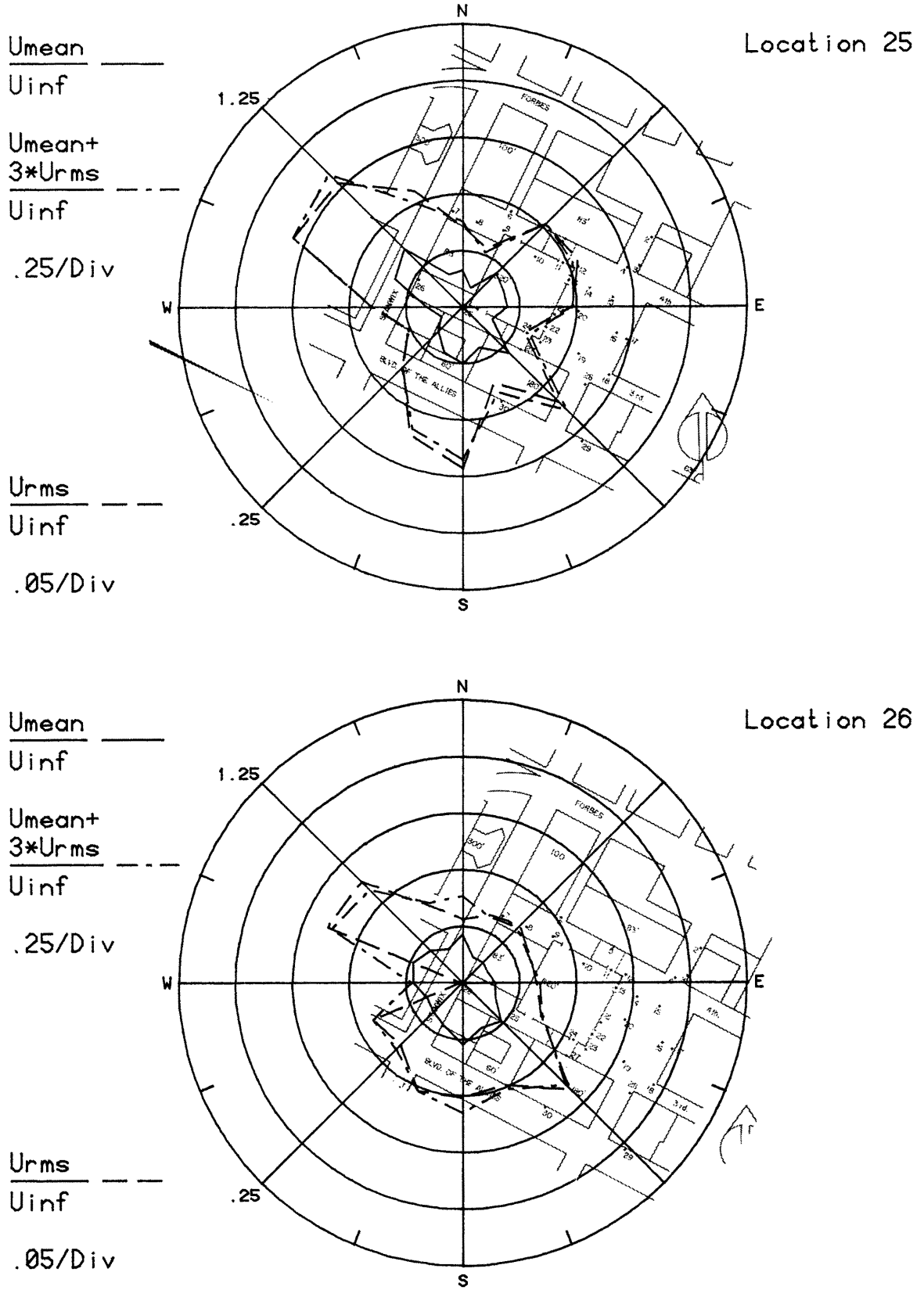


Figure 8m. Mean Velocities and Turbulence Intensities at Pedestrian Locations 25 and 26

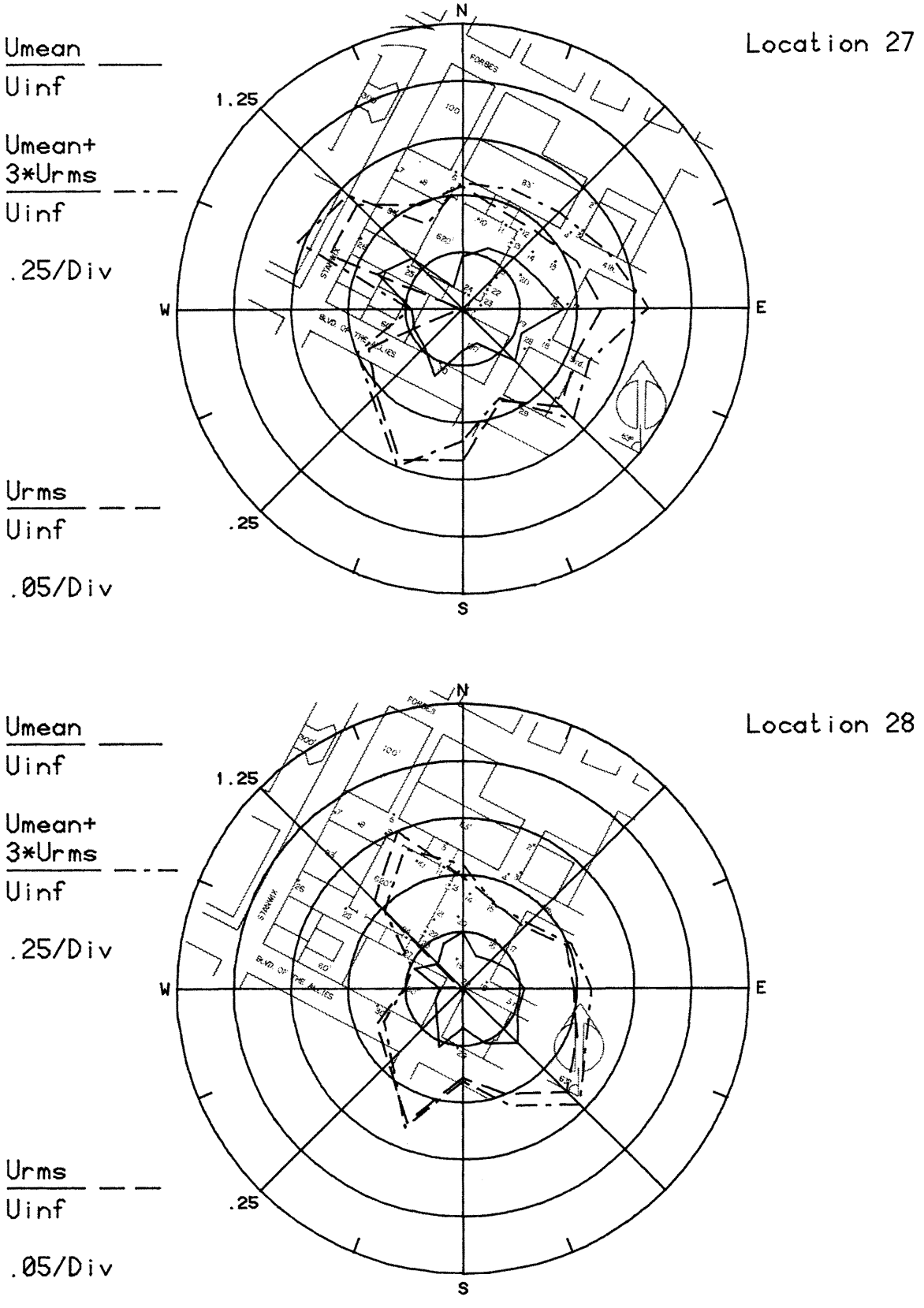


Figure 8n. Mean Velocities and Turbulence Intensities at Pedestrian Locations 27 and 28

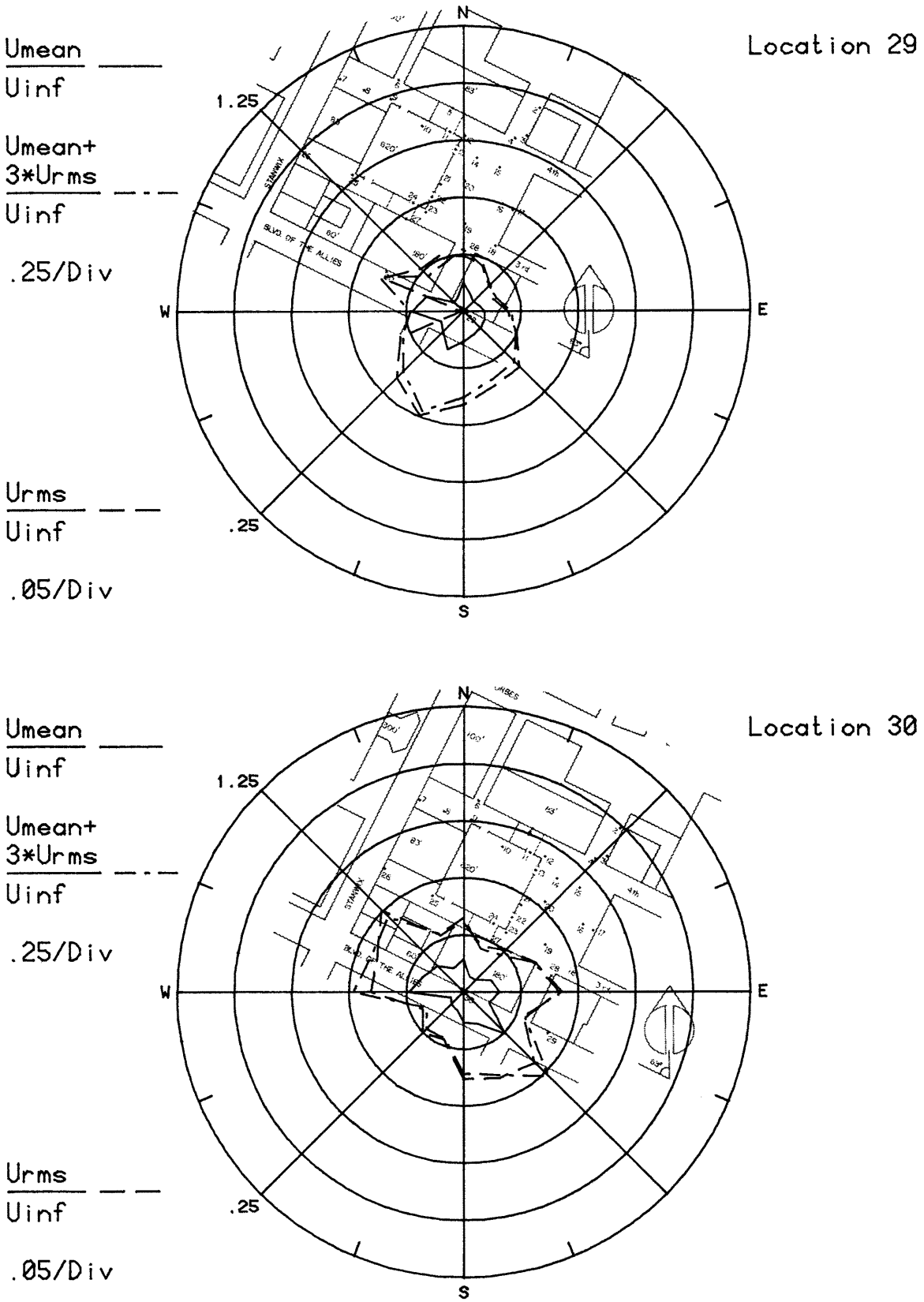


Figure 8o. Mean Velocities and Turbulence Intensities at Pedestrian Locations 29 and 30

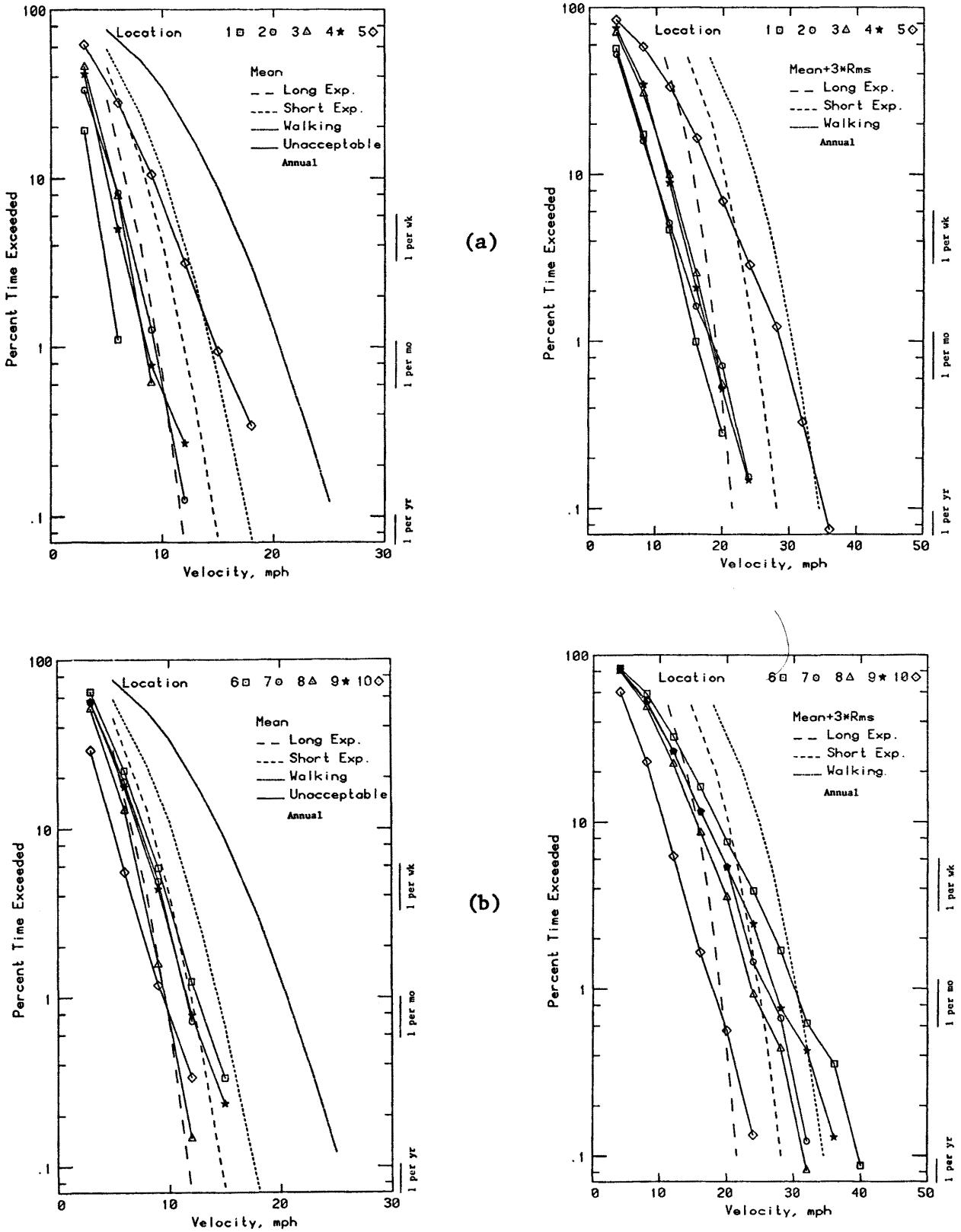


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

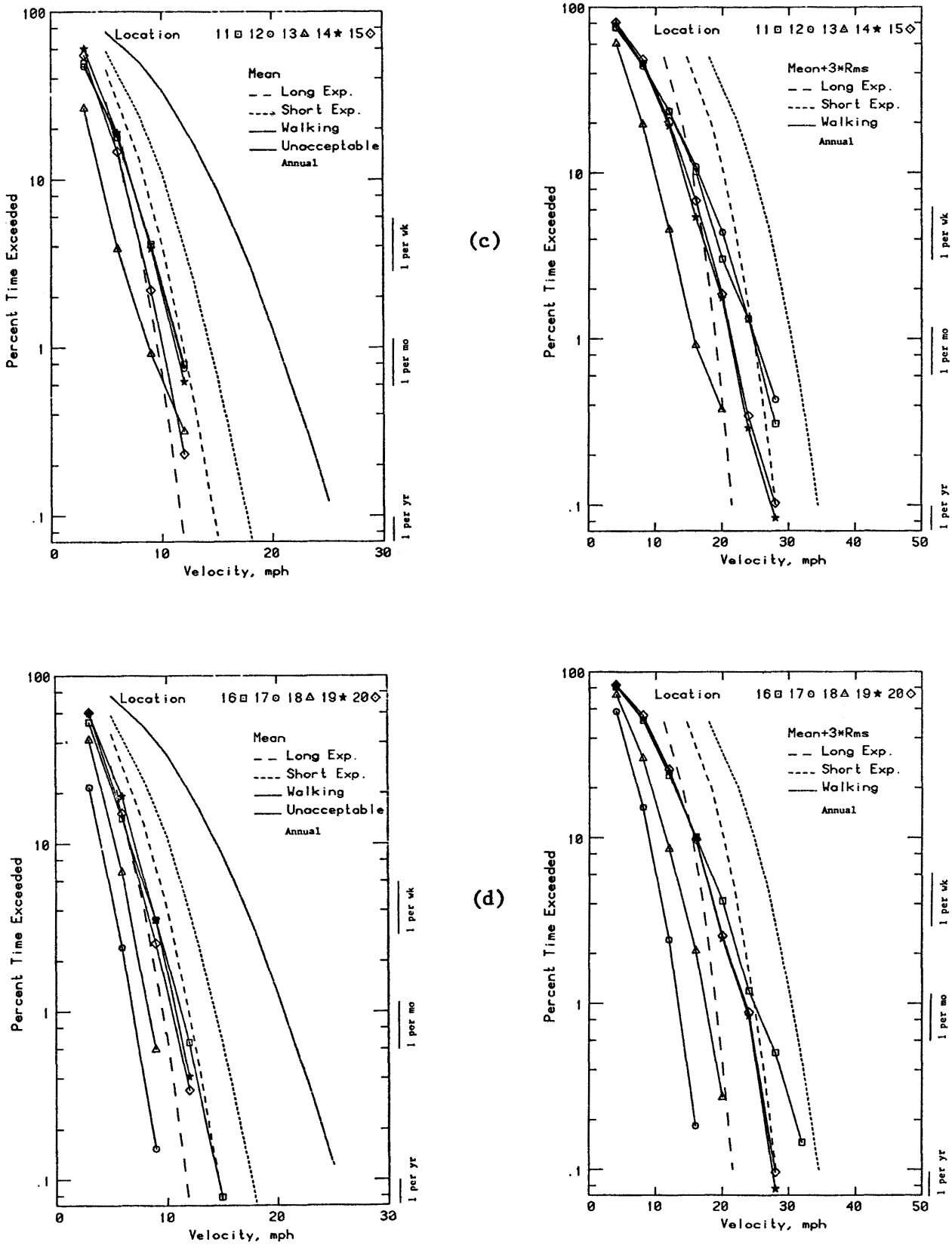
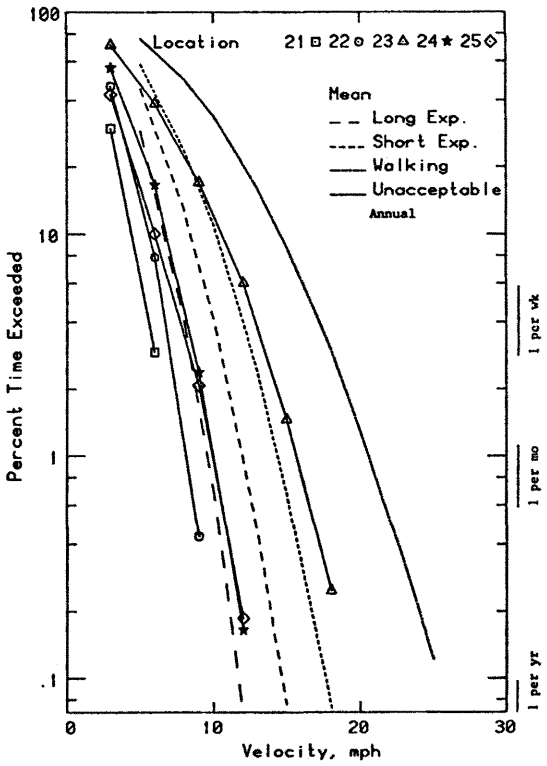
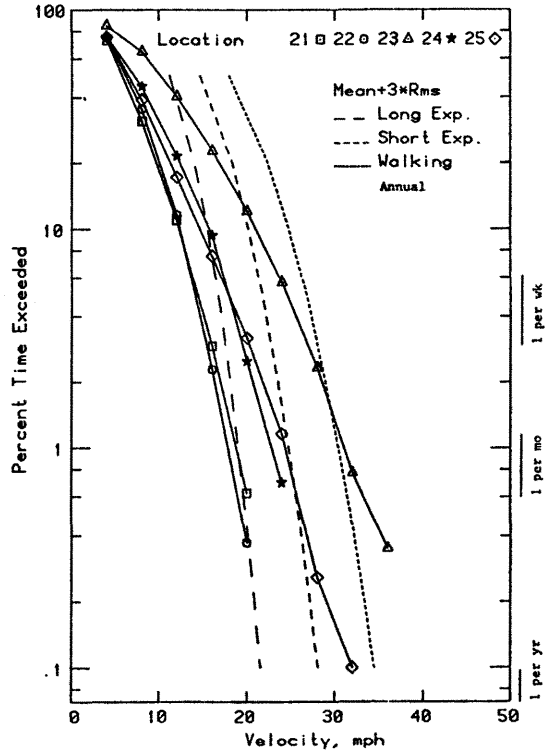
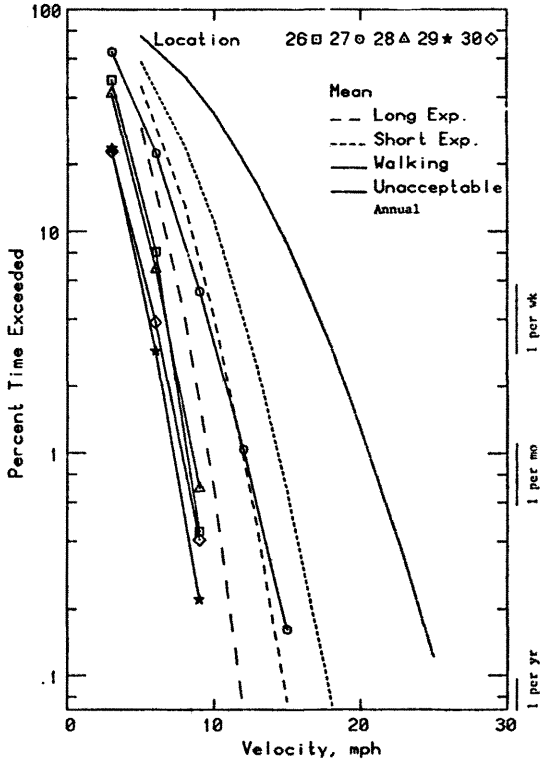


Figure 9. Wind Velocity Probabilities for Pedestrian Locations



(e)





(f)

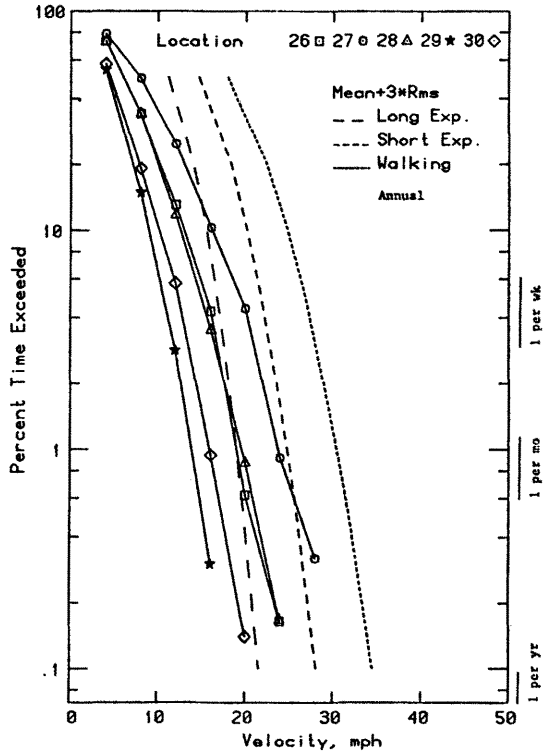


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

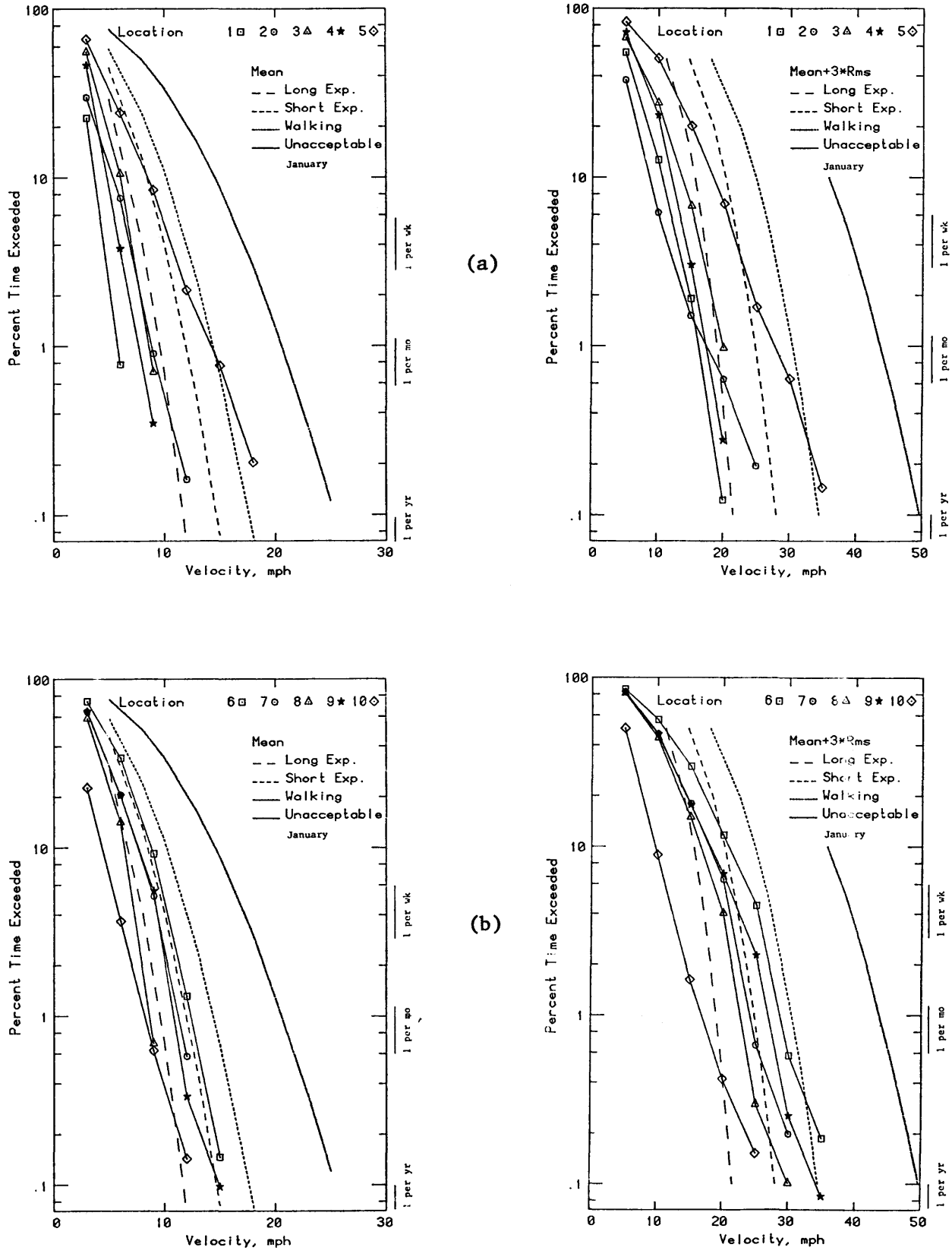


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

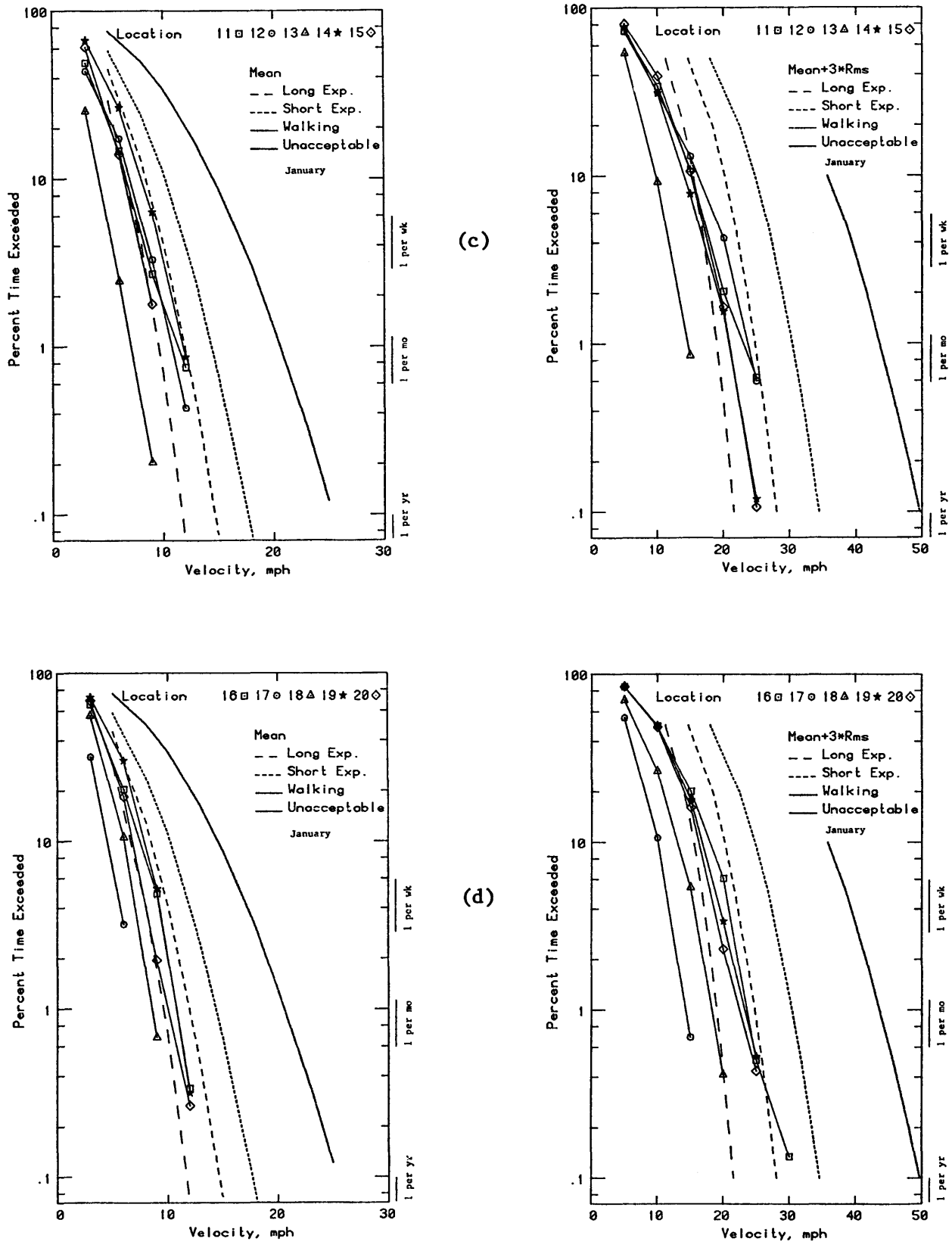


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

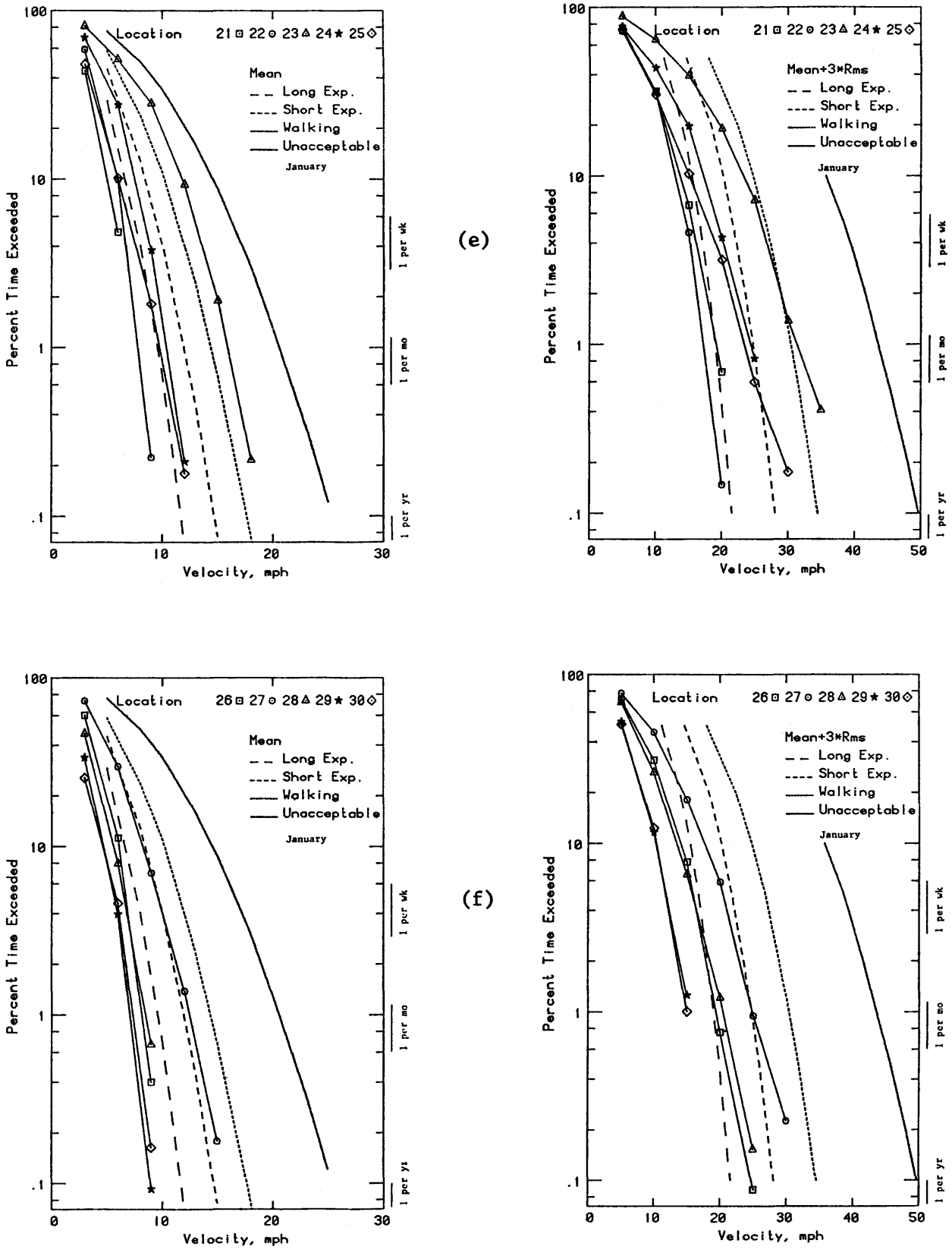


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

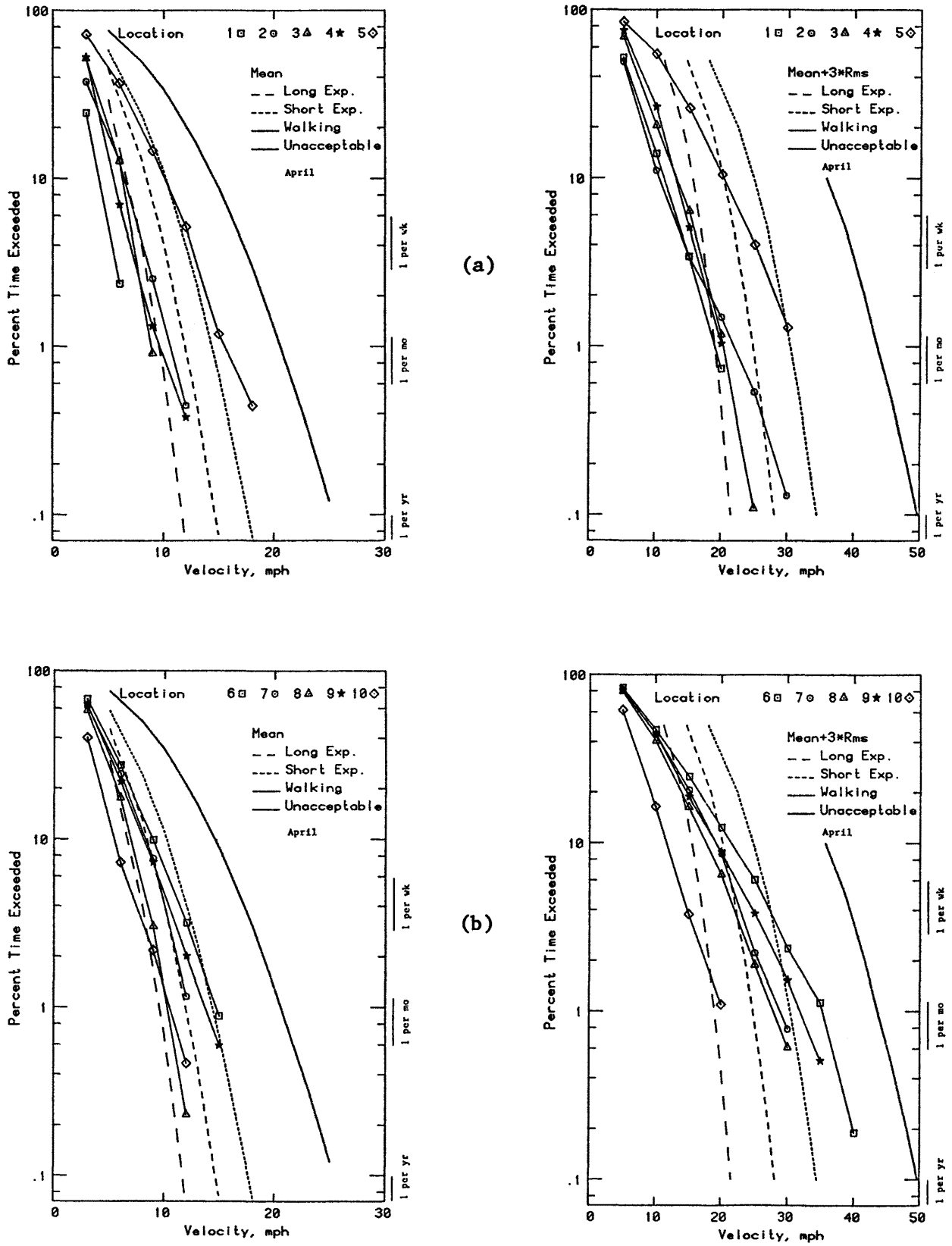


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

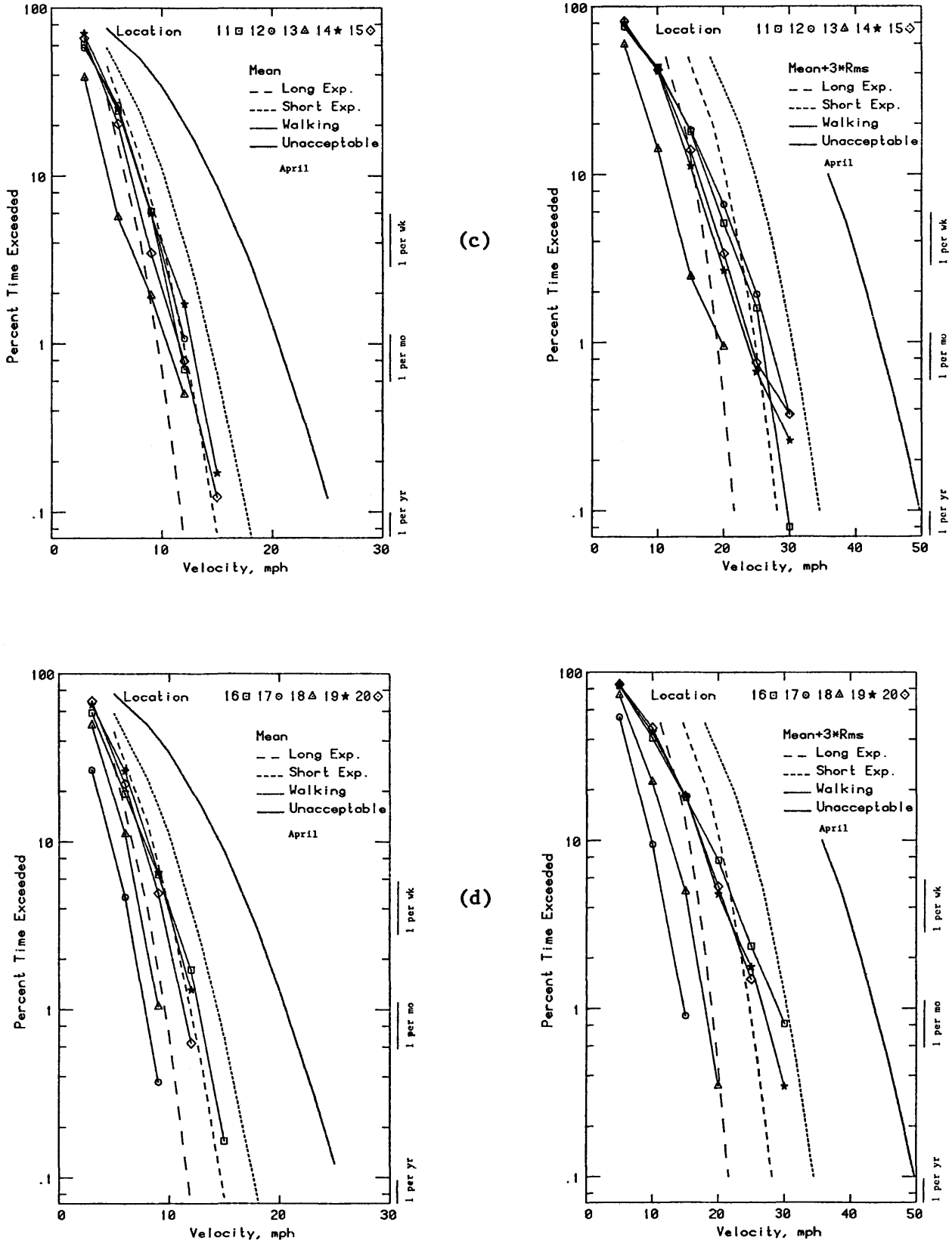


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

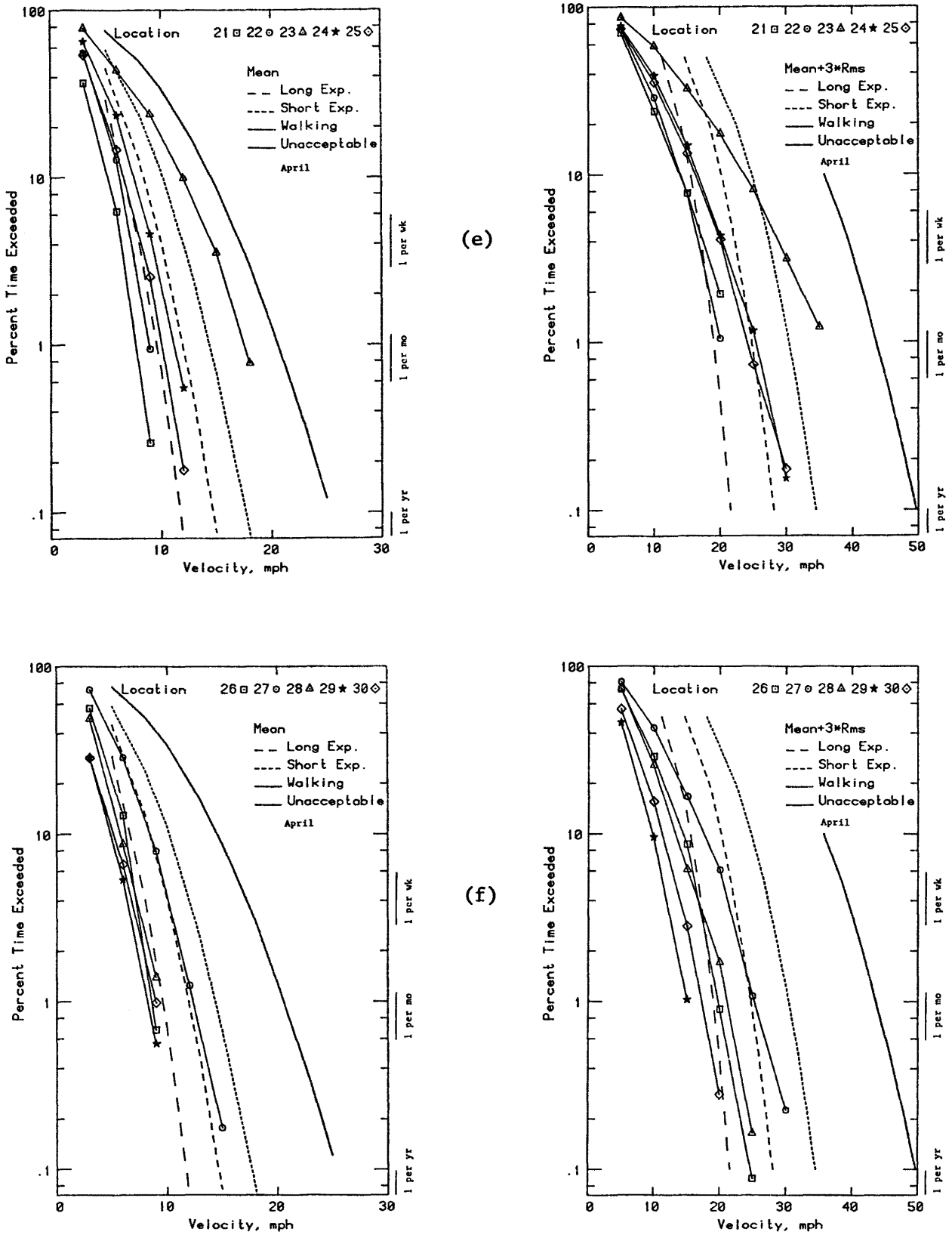


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

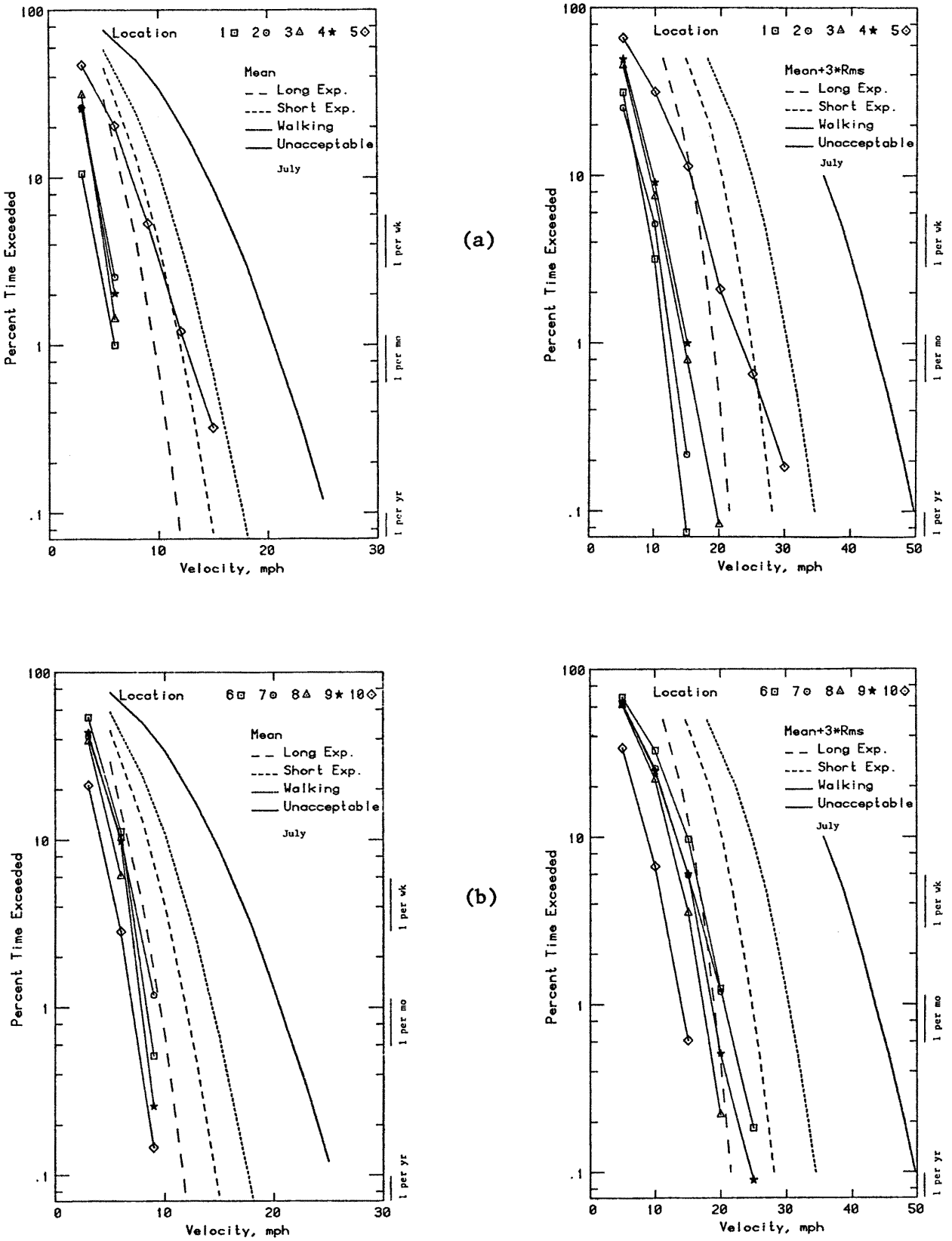
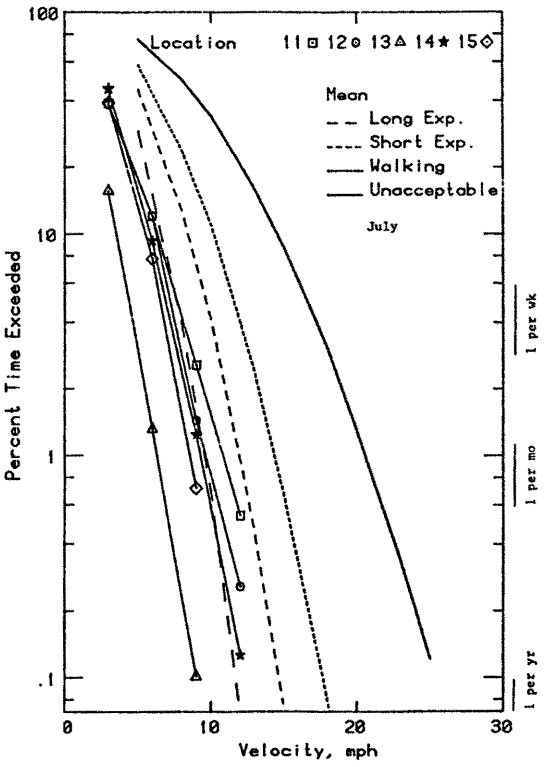
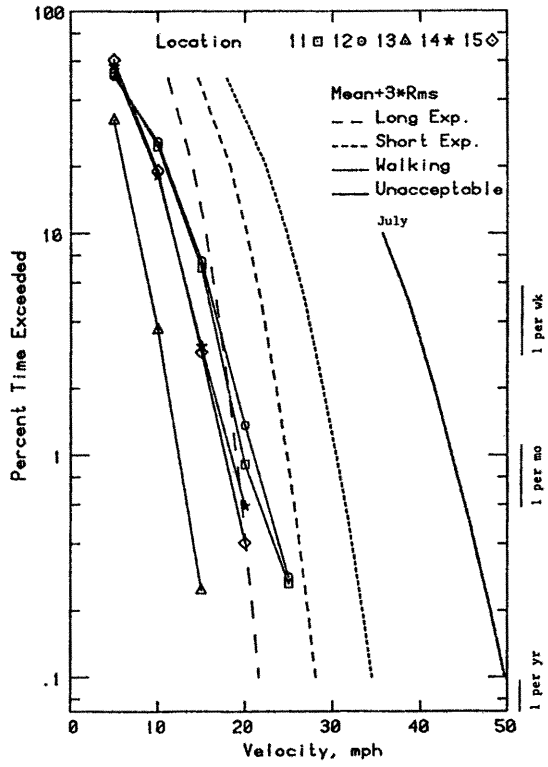
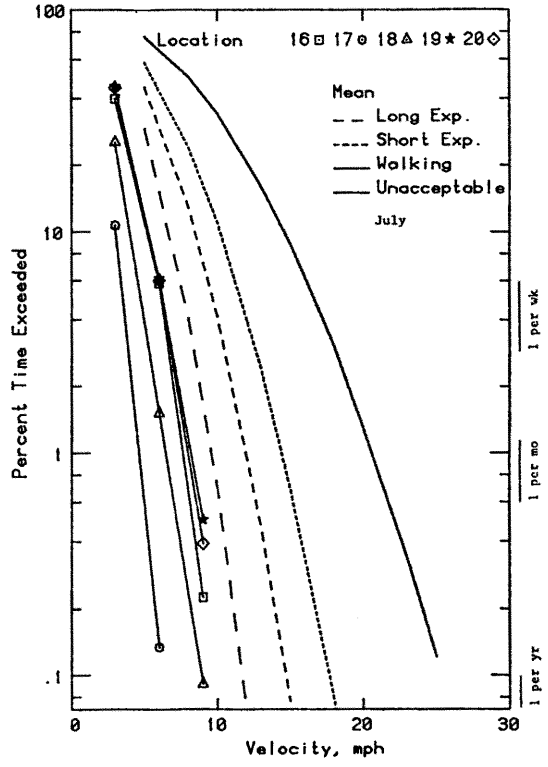


Figure 9. Wind Velocity Probabilities for Pedestrian Locations



(c)





(d)

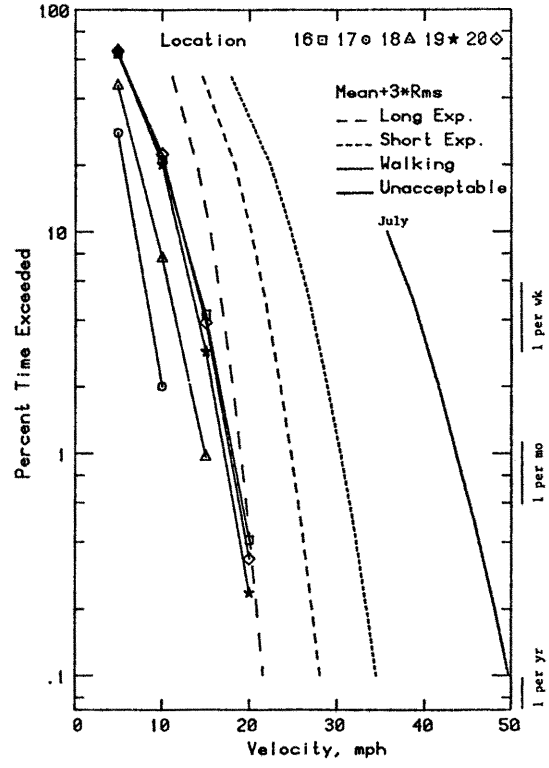


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

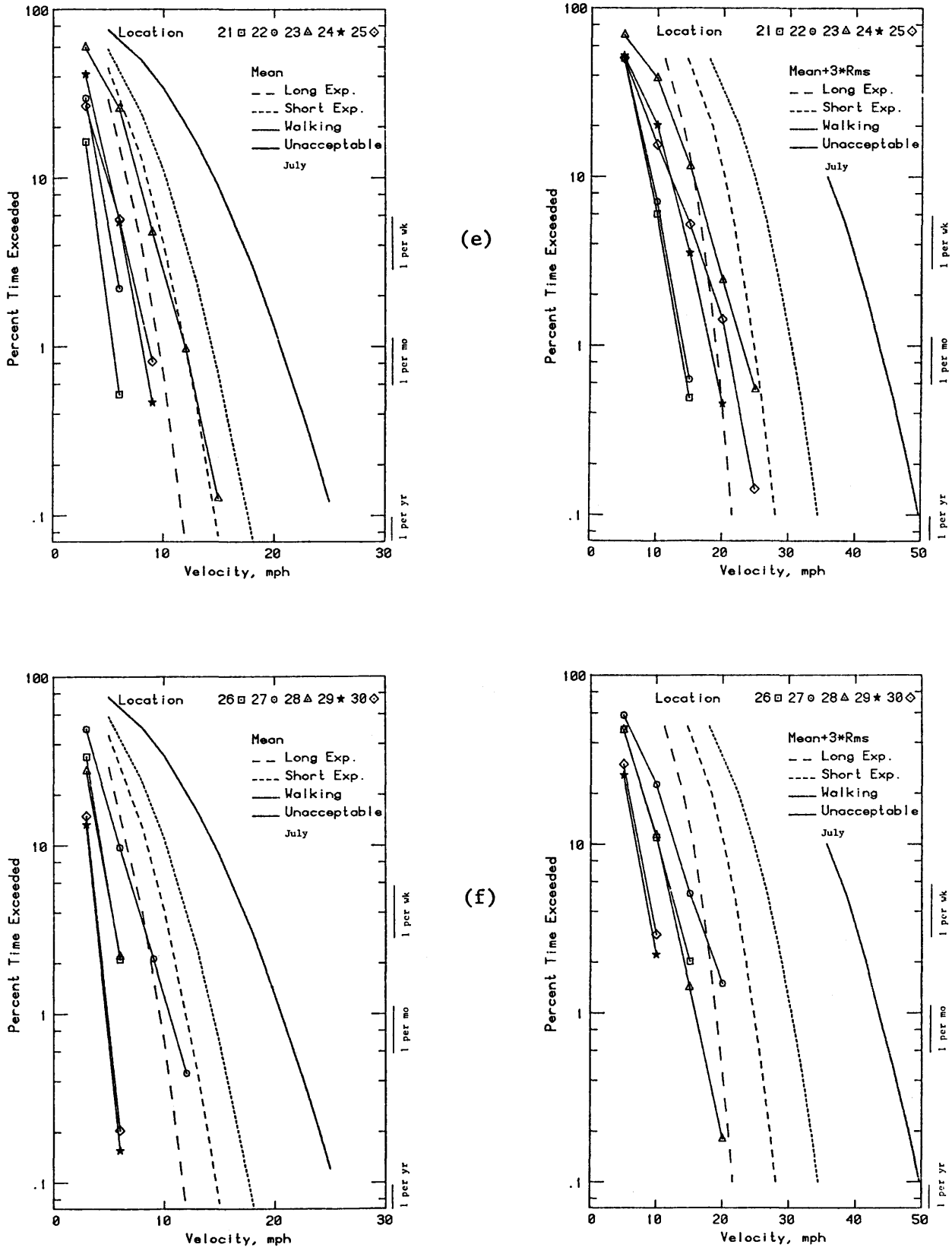


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

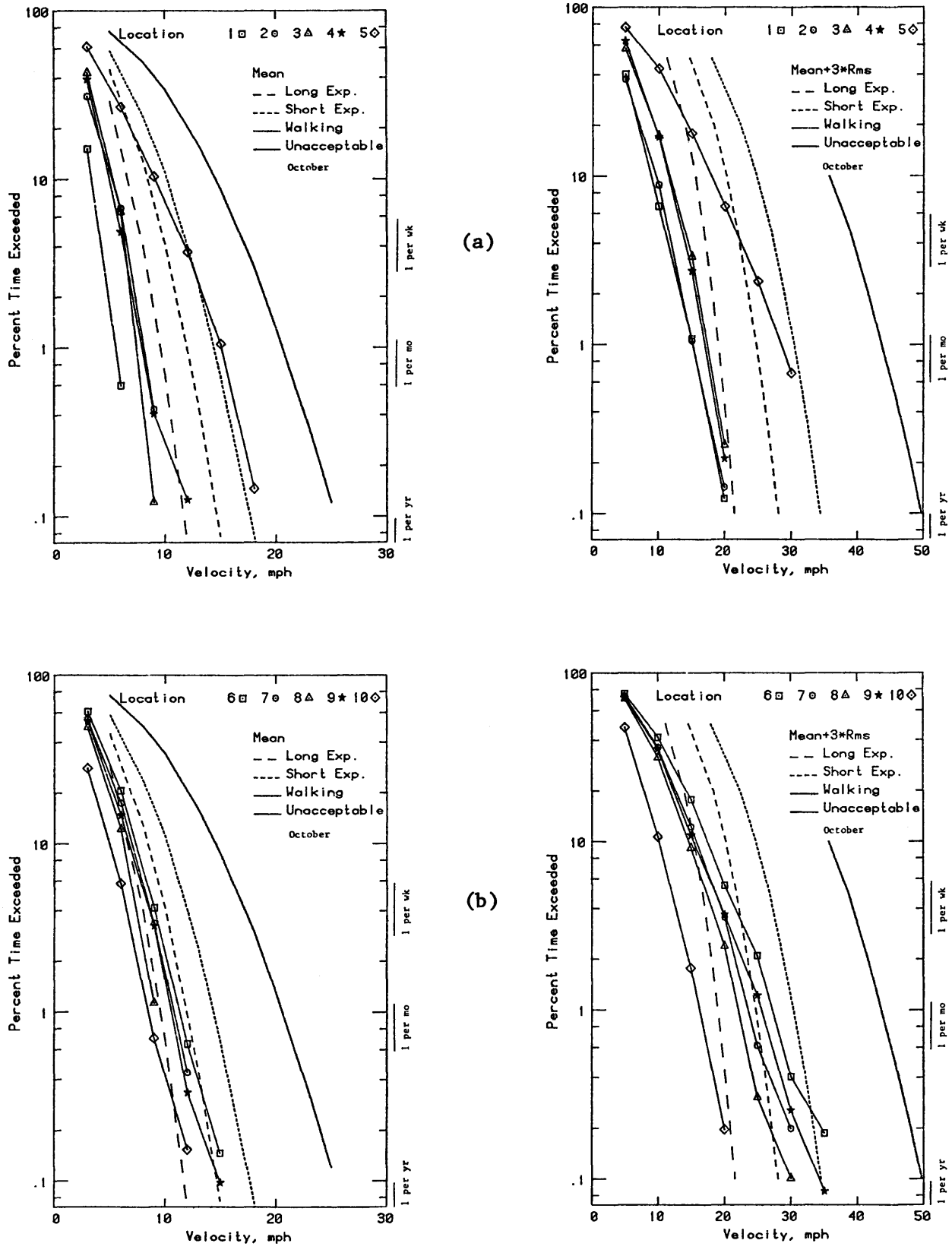


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

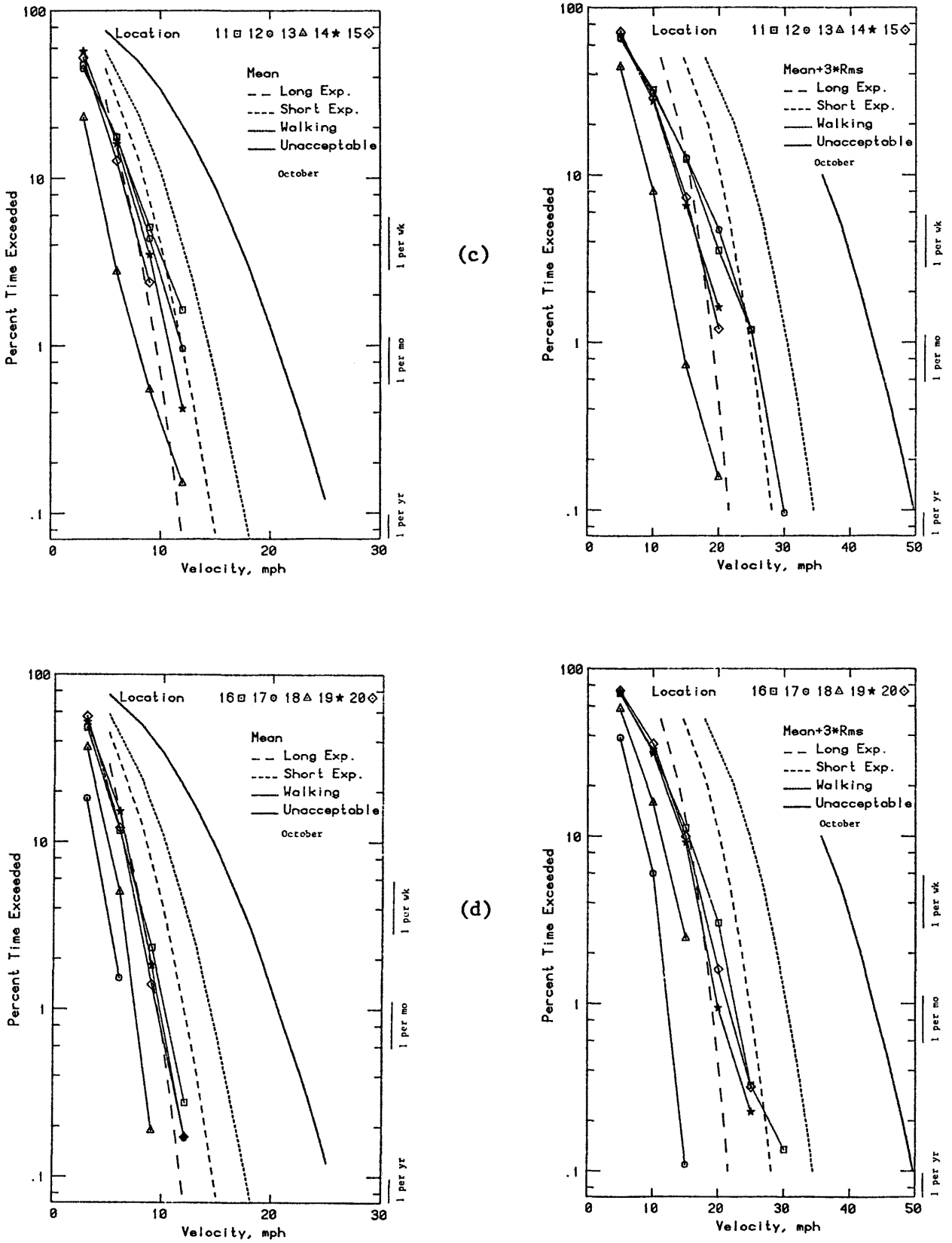
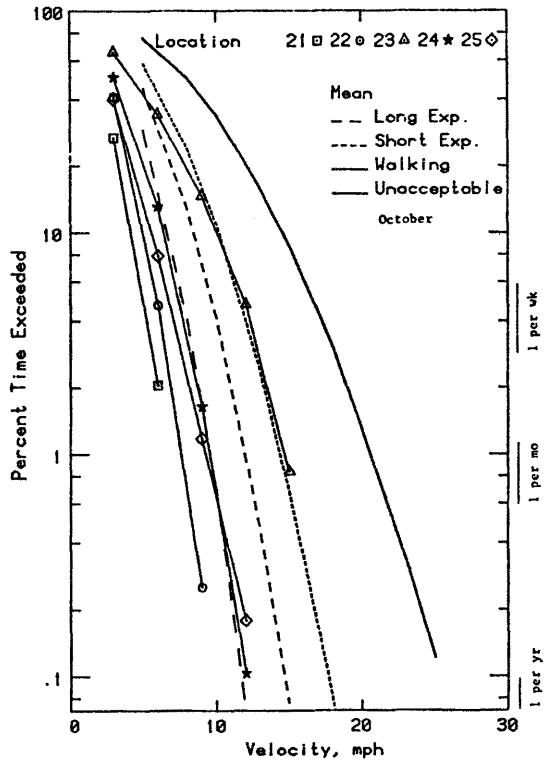
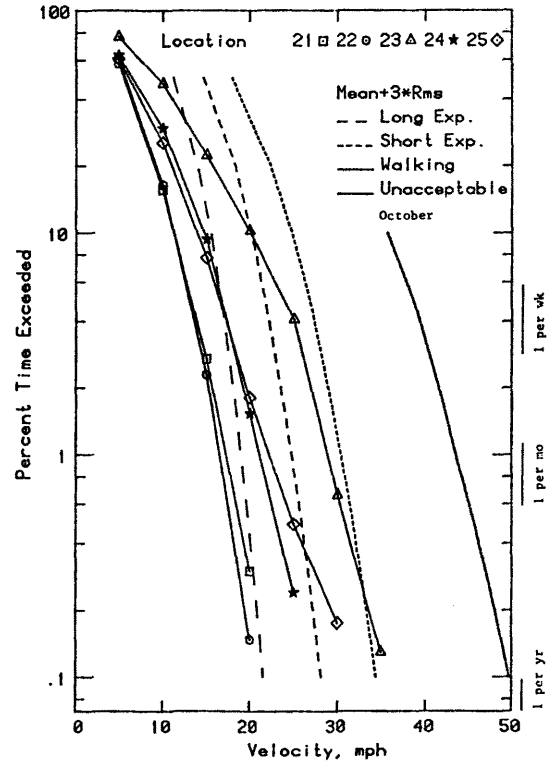
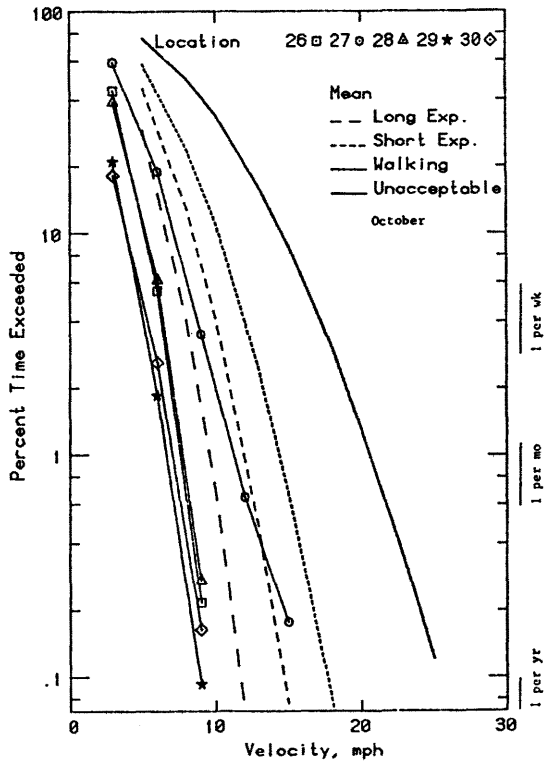


Figure 9. Wind Velocity Probabilities for Pedestrian Locations



(e)





(f)

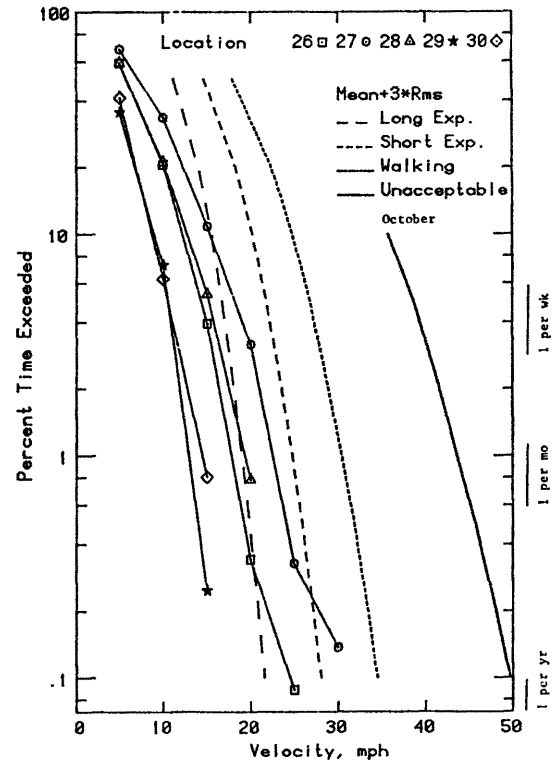


Figure 9. Wind Velocity Probabilities for Pedestrian Locations

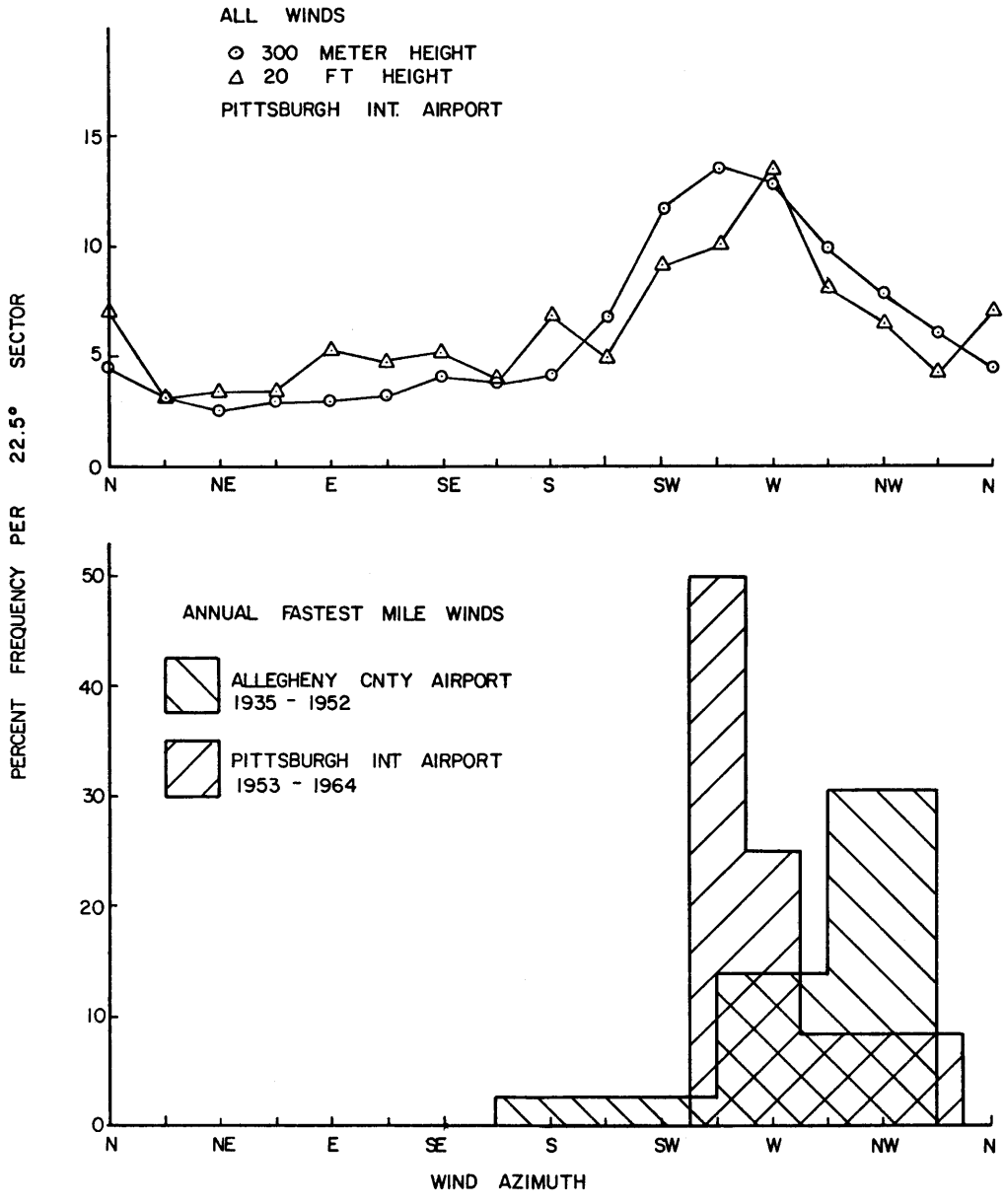
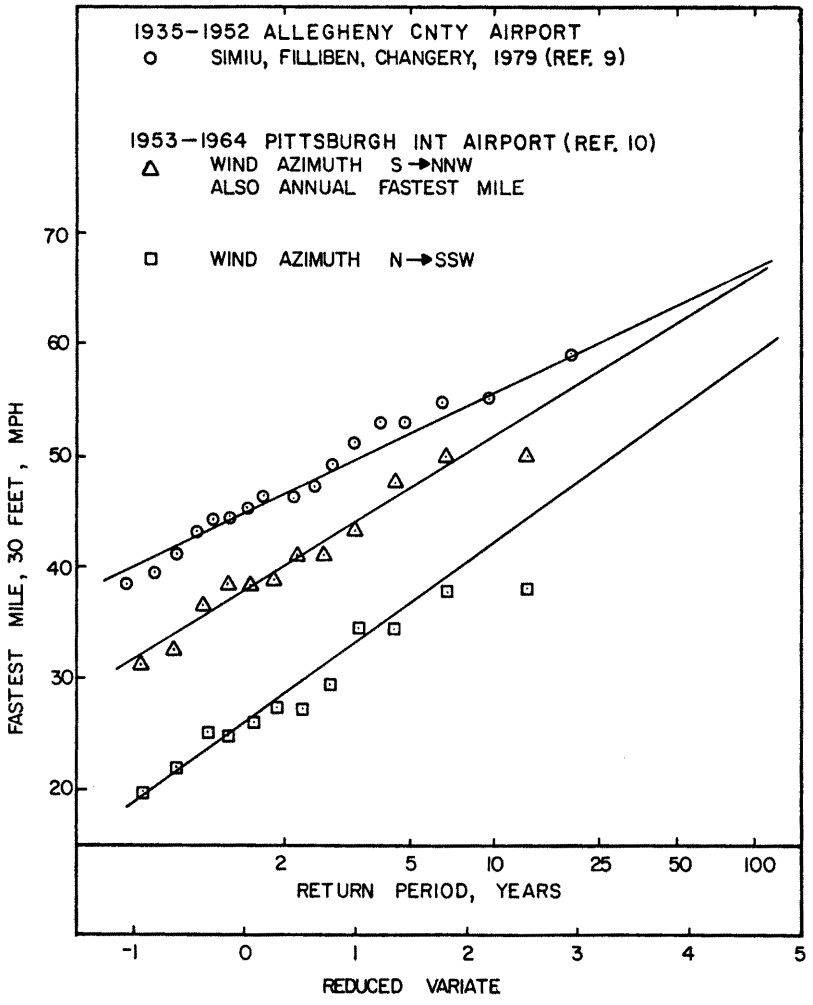


Figure 10. Frequency Distribution of Pittsburgh Winds by Wind Direction



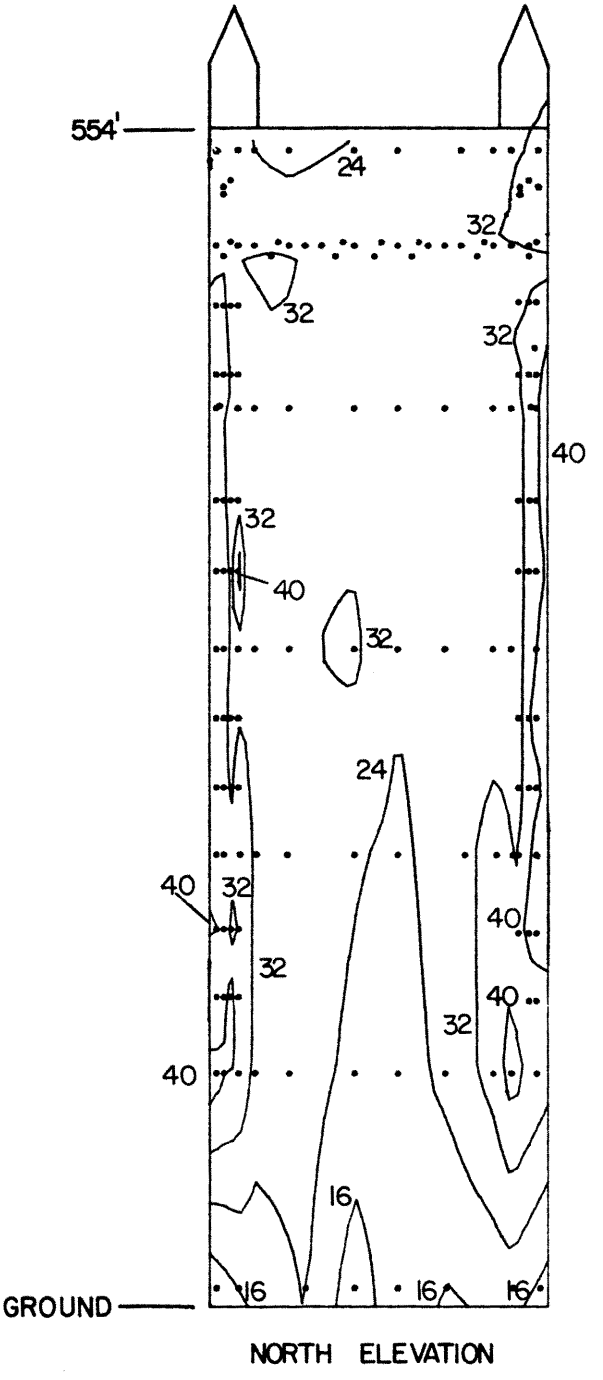
PITTSBURGH INT. AIRPORT

$$\frac{U}{U_{ref}} = \left(\frac{Z}{Z_{ref}}\right)^{0.19}$$

GRADIENT HEIGHT = 1100 ft.

RETURN PERIOD YEARS	FASTEST MILE 30 ft MPH	MEAN HOURLY GRADIENT MPH	PRESSURE CONVERSION FACTORS 100 YRS = 1.00
2	40	66	0.40
5	47	77	0.54
10	52	84	0.64
25	57	91	0.75
50	62	99	0.89
100	66	105	1.00

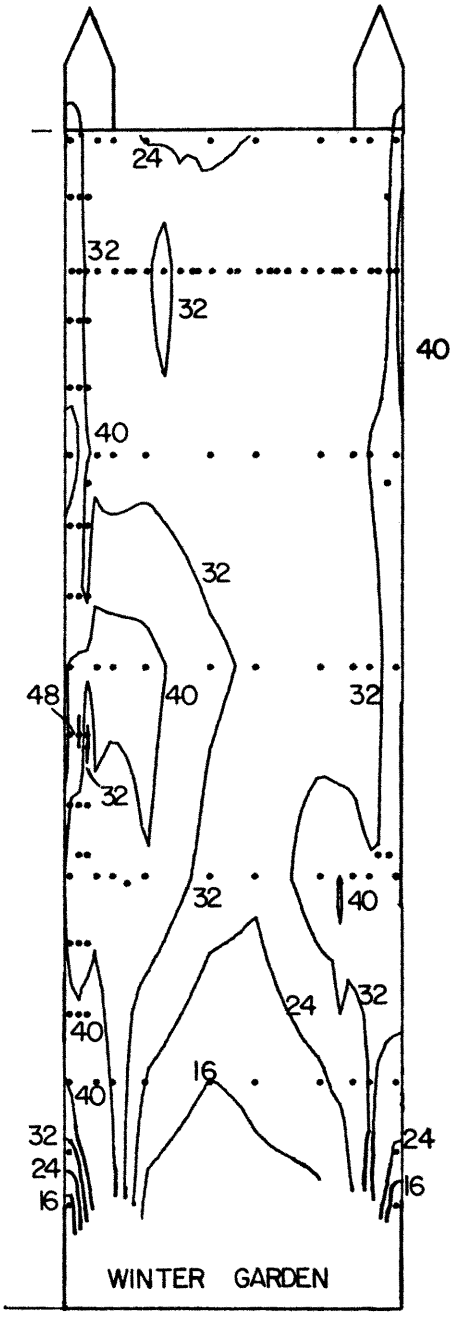
Figure 11. Extreme Value Analysis of Pittsburgh Winds



CLADDING LOADS
LARGEST MINIMUM PRESSURE
REFERENCE PRESSURE = 23 PSF

RETURN PERIOD = 50 YEARS

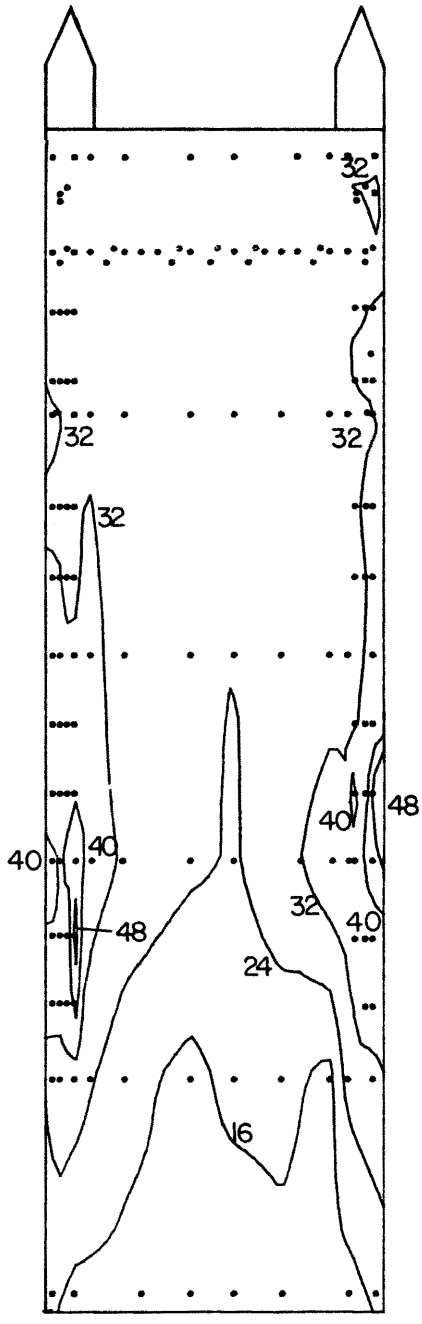
FIGURE 12a. PEAK PRESSURE LOADS ON THE BUILDING.



WEST ELEVATION

CLADDING LOADS
LARGEST MINIMUM PRESSURE
REFERENCE PRESSURE = 23 PSF
RETURN PERIOD = 50 YEARS

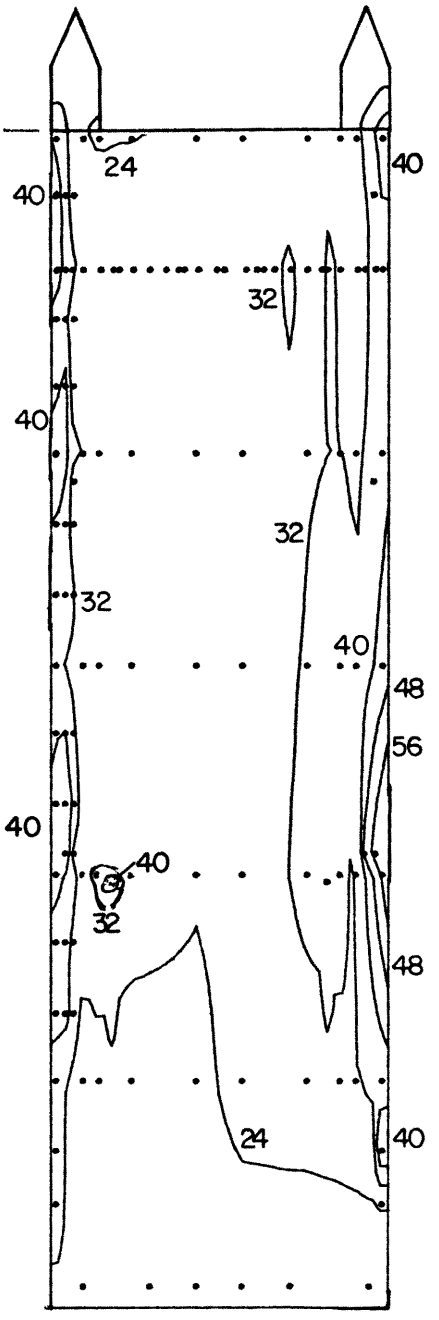
FIGURE 12b PEAK PRESSURE LOADS ON BUILDING.



SOUTH ELEVATION

CLADDING LOADS
LARGEST OR MINIMUM PRESSURE
REFERENCE PRESSURE = 23 PSF
RETURN PERIOD = 50 YEARS

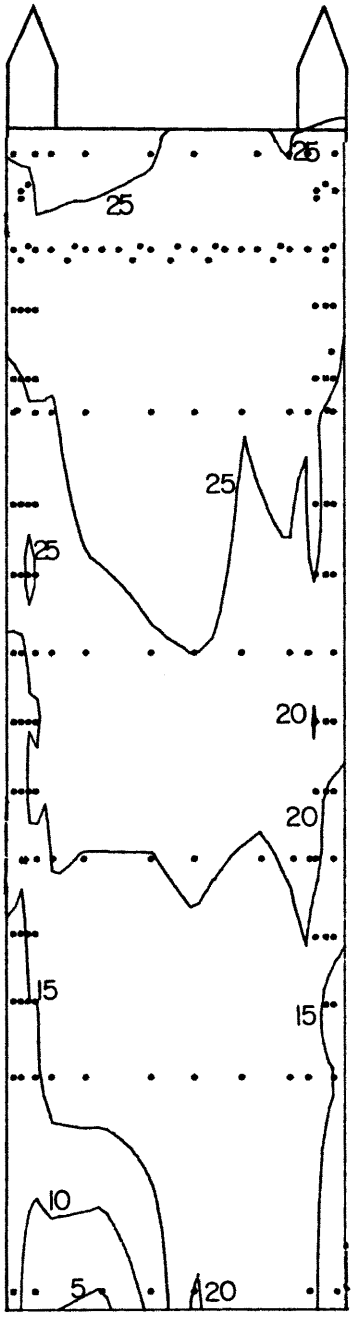
FIGURE 12c PEAK PRESSURE LOADS ON BUILDING.



EAST ELEVATION

CLADDING LOADS
LARGEST OR MINIMUM PRESSURE
REFERENCE PRESSURE = 23 PSF
RETURN PERIOD = 50 YEARS

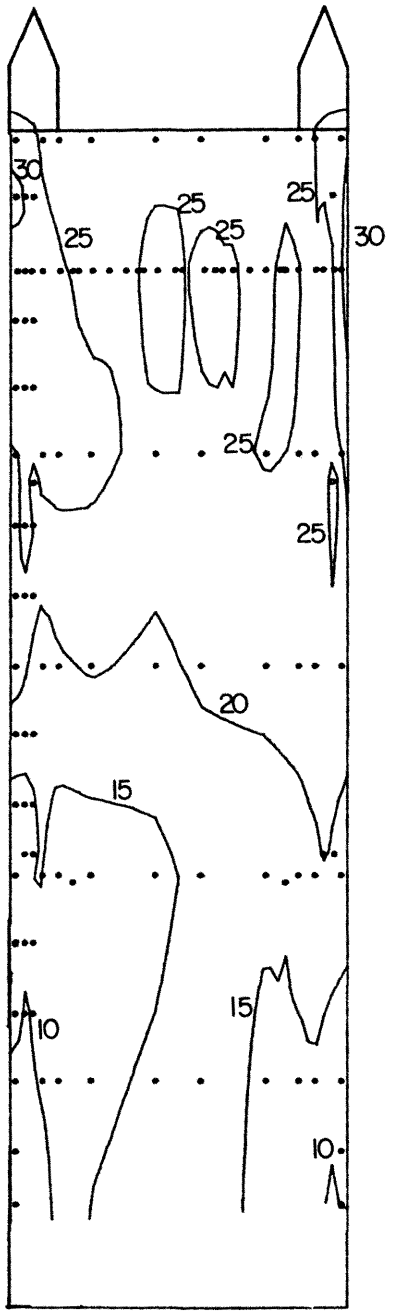
FIGURE 12d PEAK PRESSURE LOADS ON BUILDING.



NORTH ELEVATION

CLADDING LOADS
LARGEST MAXMUM (INWARD) PRESSURE
REFERENCE PRESSURE = 23 PSF
RETURN PERIOD = 50 YEARS

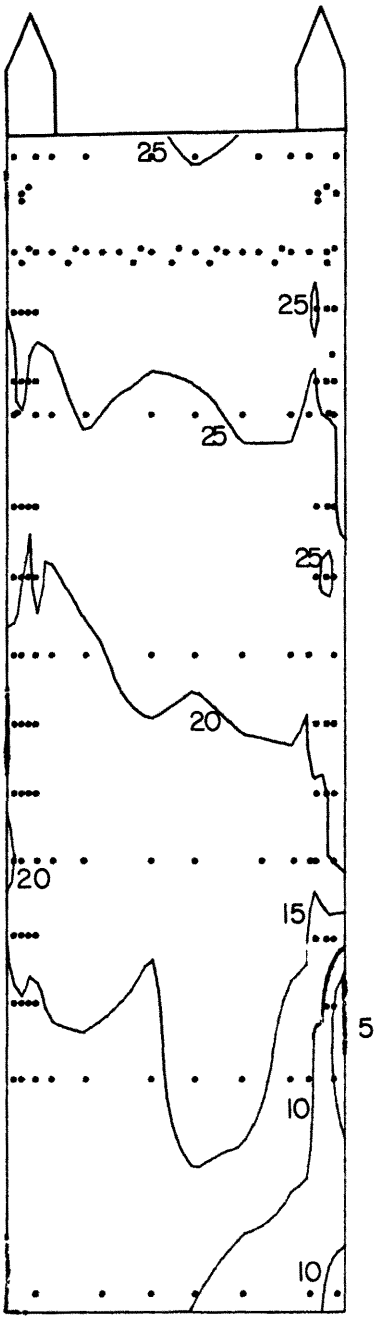
FIGURE 12e PEAK PRESSURE LOADS ON THE BUILDING



WEST ELEVATION

CLADDING LOADS
LARGEST MAXIMUM (INWARD) PRESSURE
REFERENCE PRESSURE = 23 PSF
RETURN PERIOD = 50 YEARS

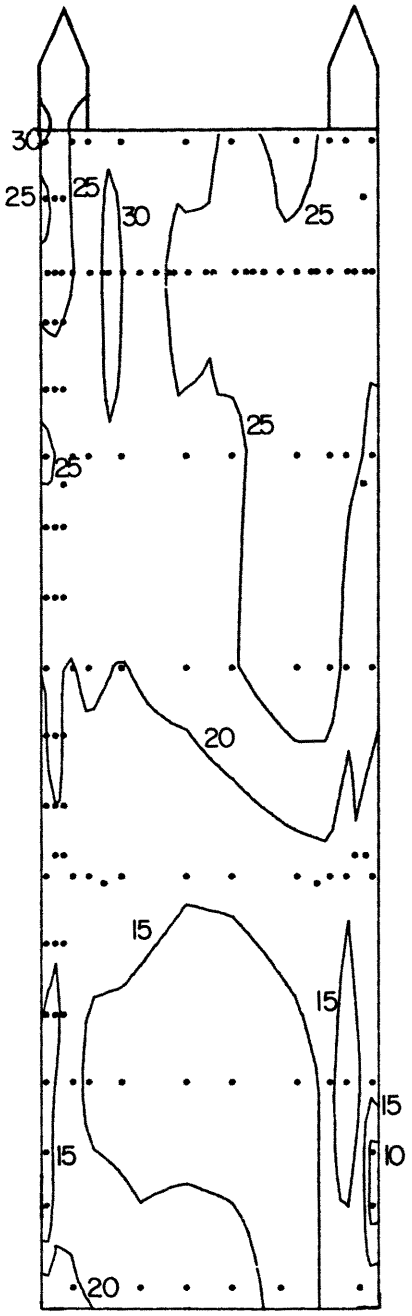
FIGURE 12f PEAK PRESSURE LOADS ON THE BUILDING.



SOUTH ELEVATION

CLADDING LOADS
LARGEST MAXIMUM (INWARD) PRESSURE
REFERENCE PRESSURE = 23 PSF
RETURN PERIOD = 50 YEARS

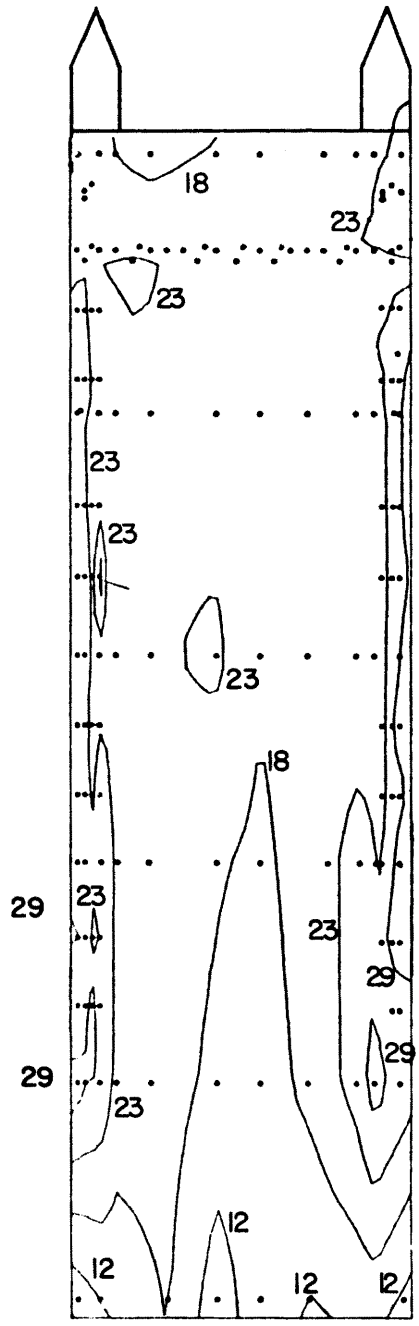
FIGURE 12g PEAK PRESSURE LOADS ON THE BUILDING



EAST ELEVATION

CLADDING LOADS
LARGEST MAXIMUM (INWARD) PRESSURE
REFERENCE PRESSURE = 23 PSF
RETURN PERIOD = 50 YEARS

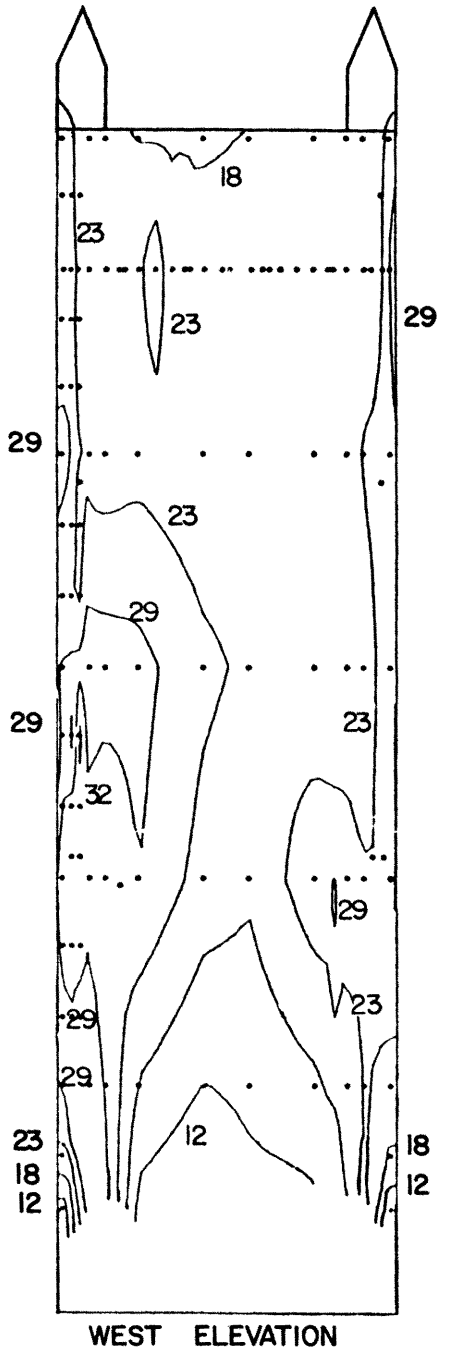
FIGURE 12h. PEAK PRESSURE LOADS ON BUILDING



NORTH ELEVATION

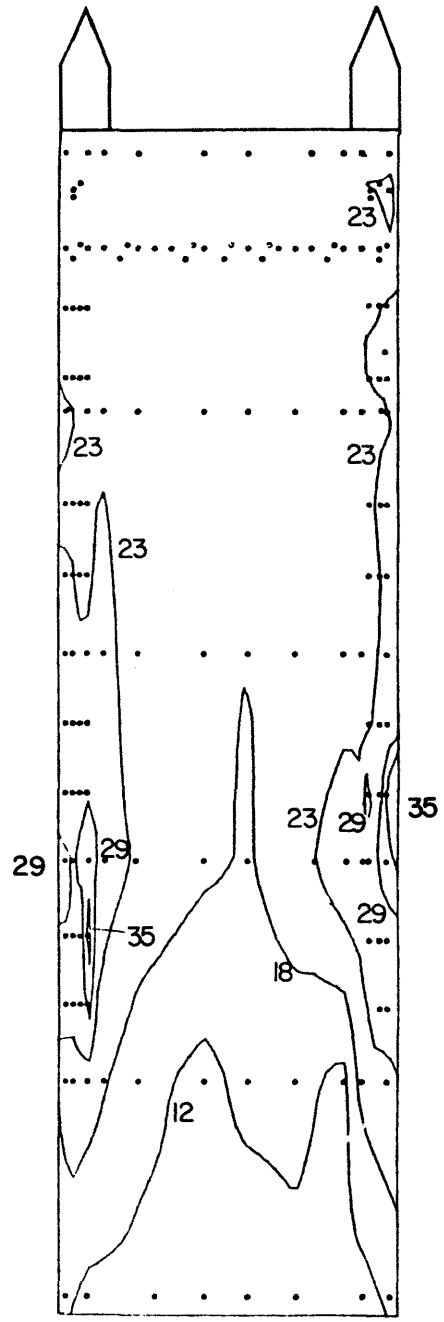
GLASS LOADS-LARGEST MINIMUM
REFERENCE PRESSURE = 23 PSF
GLASS LOAD FACTOR = 0.73
RETURN PERIOD = 50 YEARS

FIGURE 121 PEAK PRESSURE LOADS ON BUILDING



GLASS LOADS - LARGEST MINIMUM
REFERENCE PRESSURE = 23 PSF
GLASS LOAD FACTOR = 0.73
RETURN PERIOD = 50 YEARS

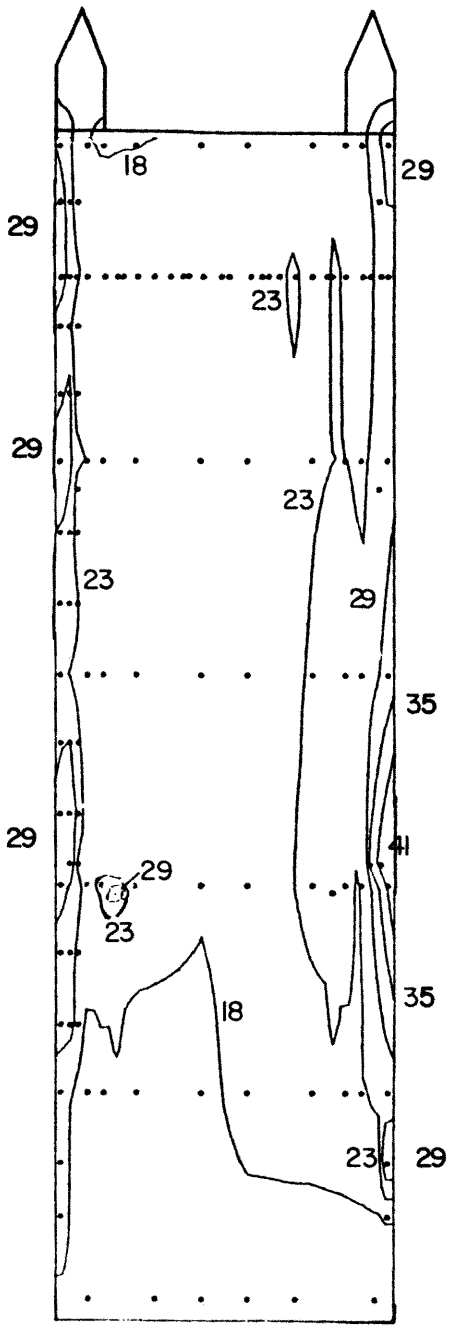
FIGURE 12j PEAK PRESSURE LOADS ON THE BUILDING



SOUTH ELEVATION

GLASS LOADS - LARGEST MINIMUM
REFERENCE PRESSURE = 23PSF
GLASS LOAD FACTOR = 0.73
RETURN PERIOD = 50 YEARS

FIGURE 12k. PEAK PRESSURE LOADS ON THE BUILDING.



EAST ELEVATION

GLASS LOADS - LARGEST MINIMUM
REFERENCE PRESSURE = 23 PSF
GLASS LOAD FACTOR = 0.73
RETURN PERIOD = 50 YEARS

FIGURE 121 PEAK PRESSURE LOADS ON BUILDING

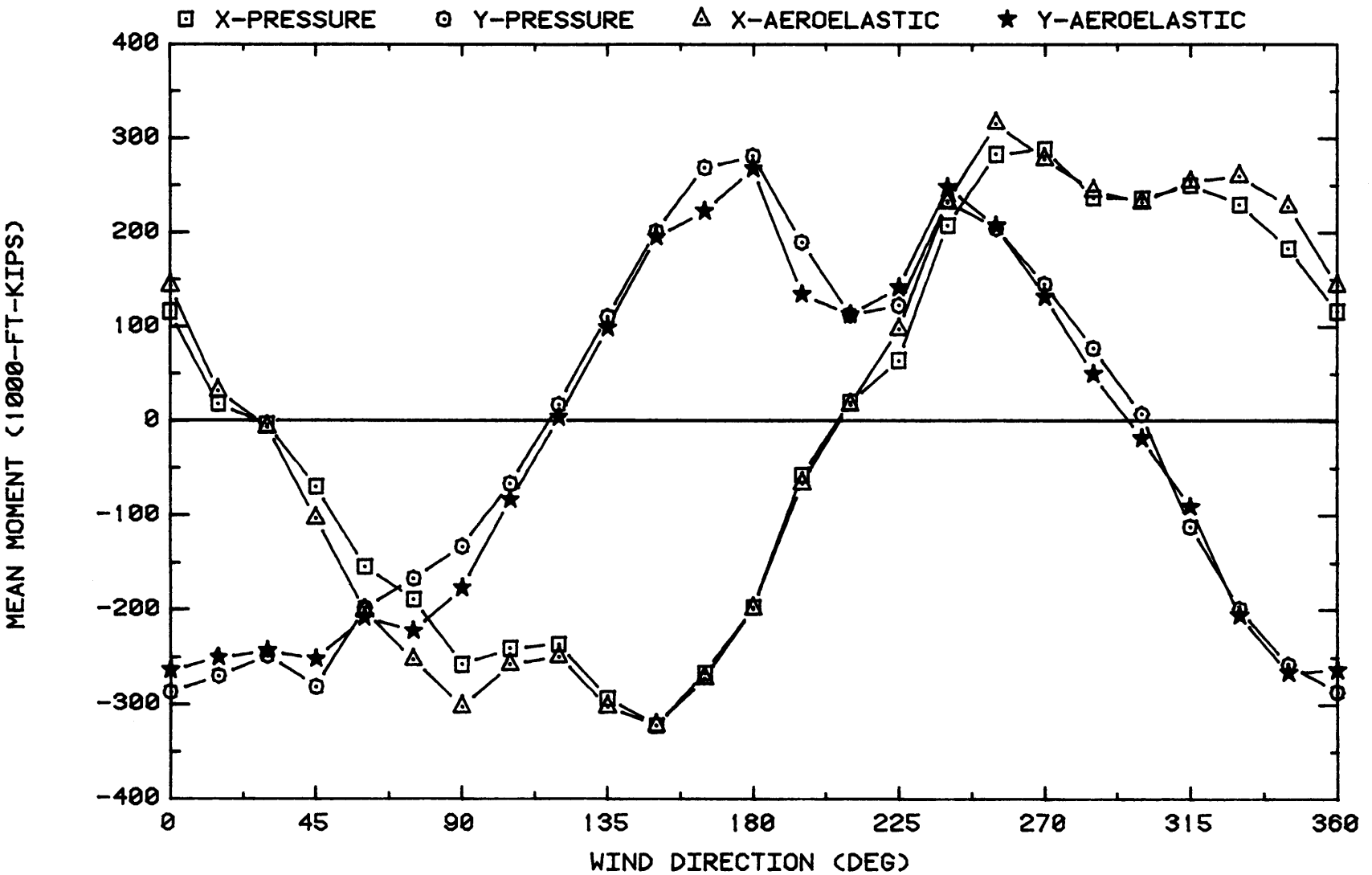


Figure 13. COMPARISON OF PRESSURE-MODEL WITH AEROELASTIC-MODEL DATA FULL SCALE VALUES FOR A 99 MPH (50 YEAR) WIND

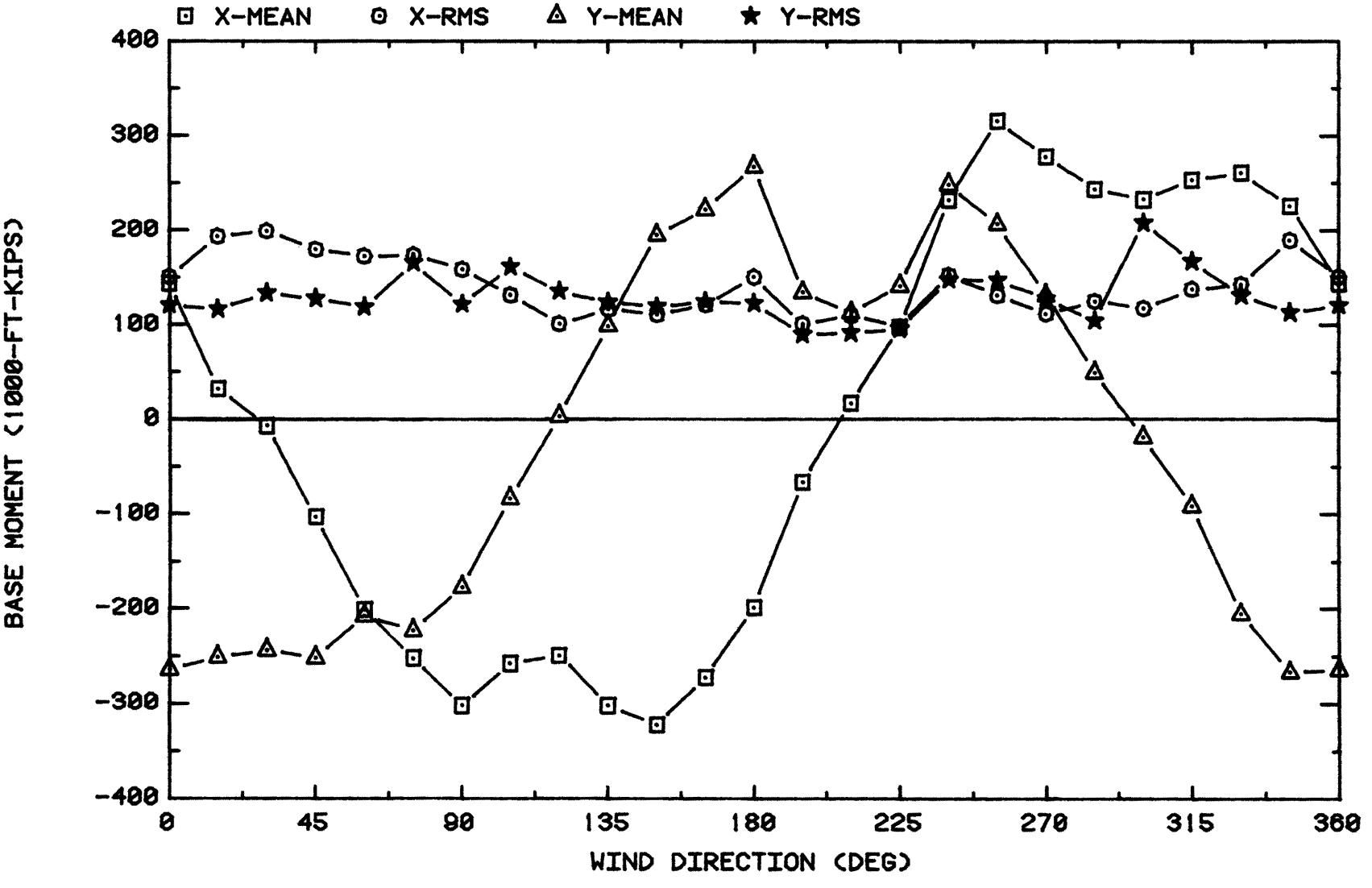


Figure 14a. MEAN AND RMS BASE BENDING MOMENTS, 99 MPH WIND, 0.6% DAMPING
BLUFF TO SOUTHWEST MODELED FOR W.D. 195-225

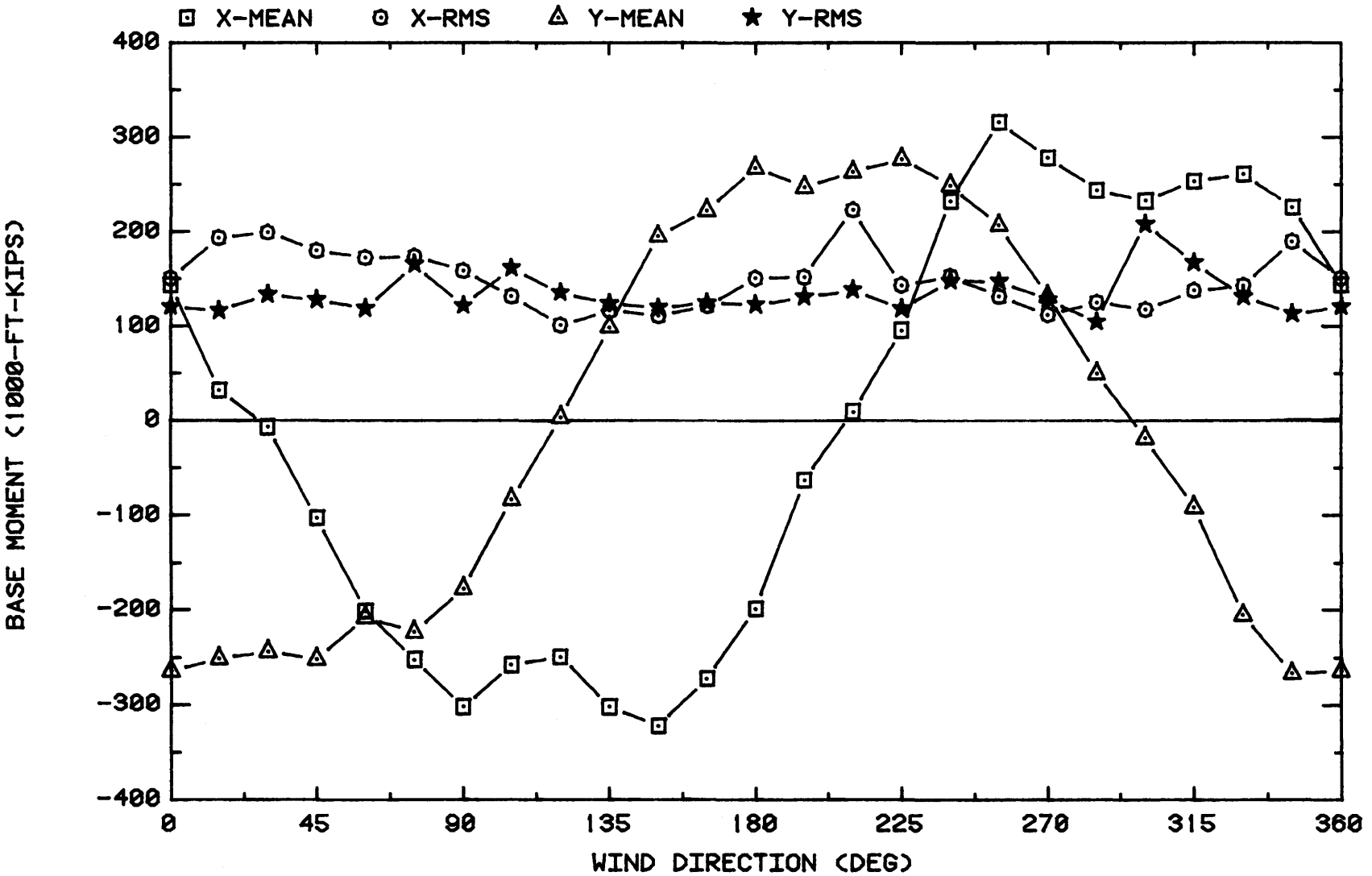


Figure 14b. MEAN AND RMS BASE BENDING MOMENTS, 99 MPH WIND, 0.6% DAMPING
BLUFF TO SOUTHWEST NOT MODELED

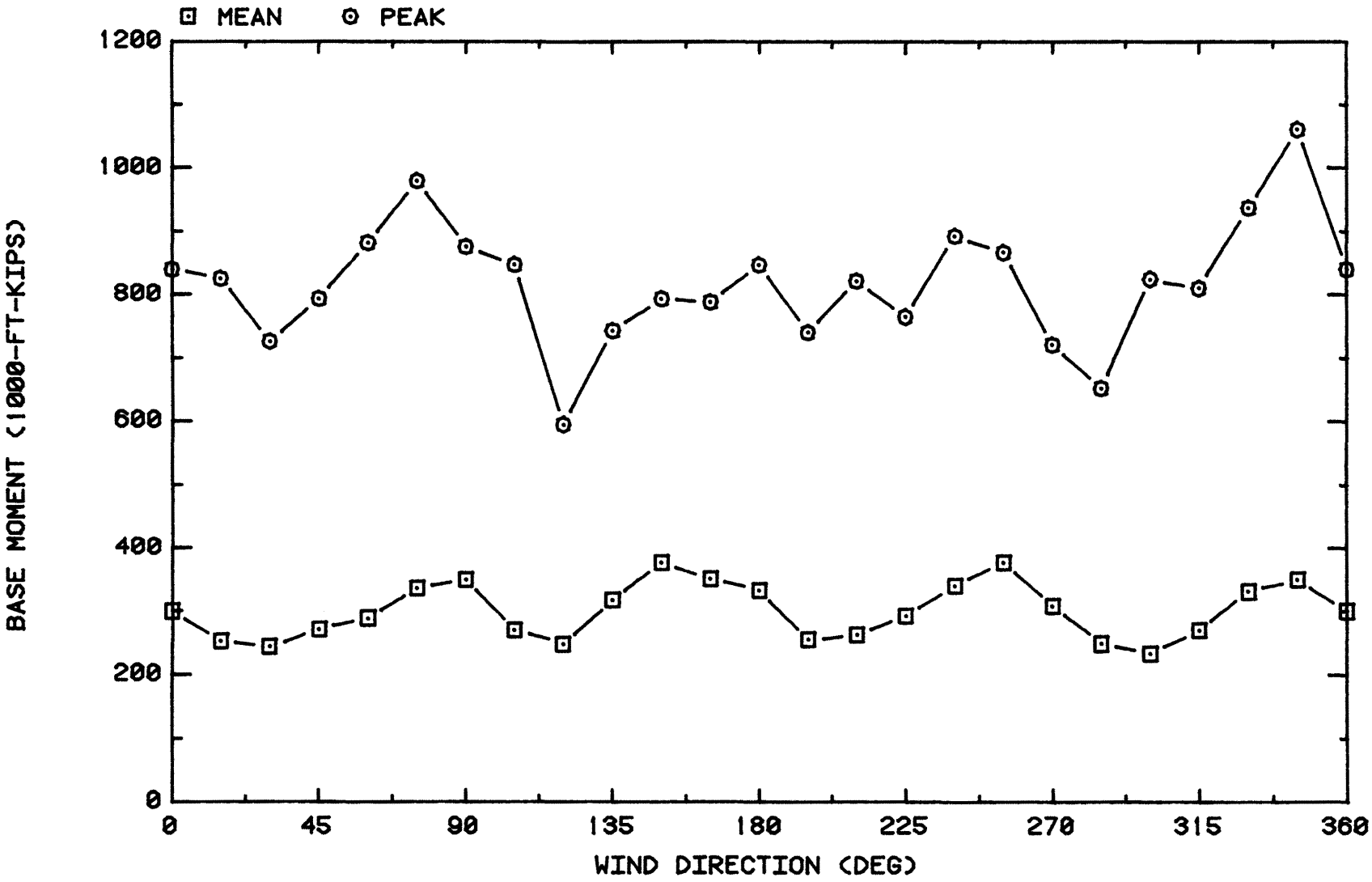


Figure 15a. ENVELOPE OF BASE BENDING MOMENTS, 0.6% DAMPING RESULTANT (VECTOR) MAGNITUDES, 99 MPH (50 YEAR) WIND

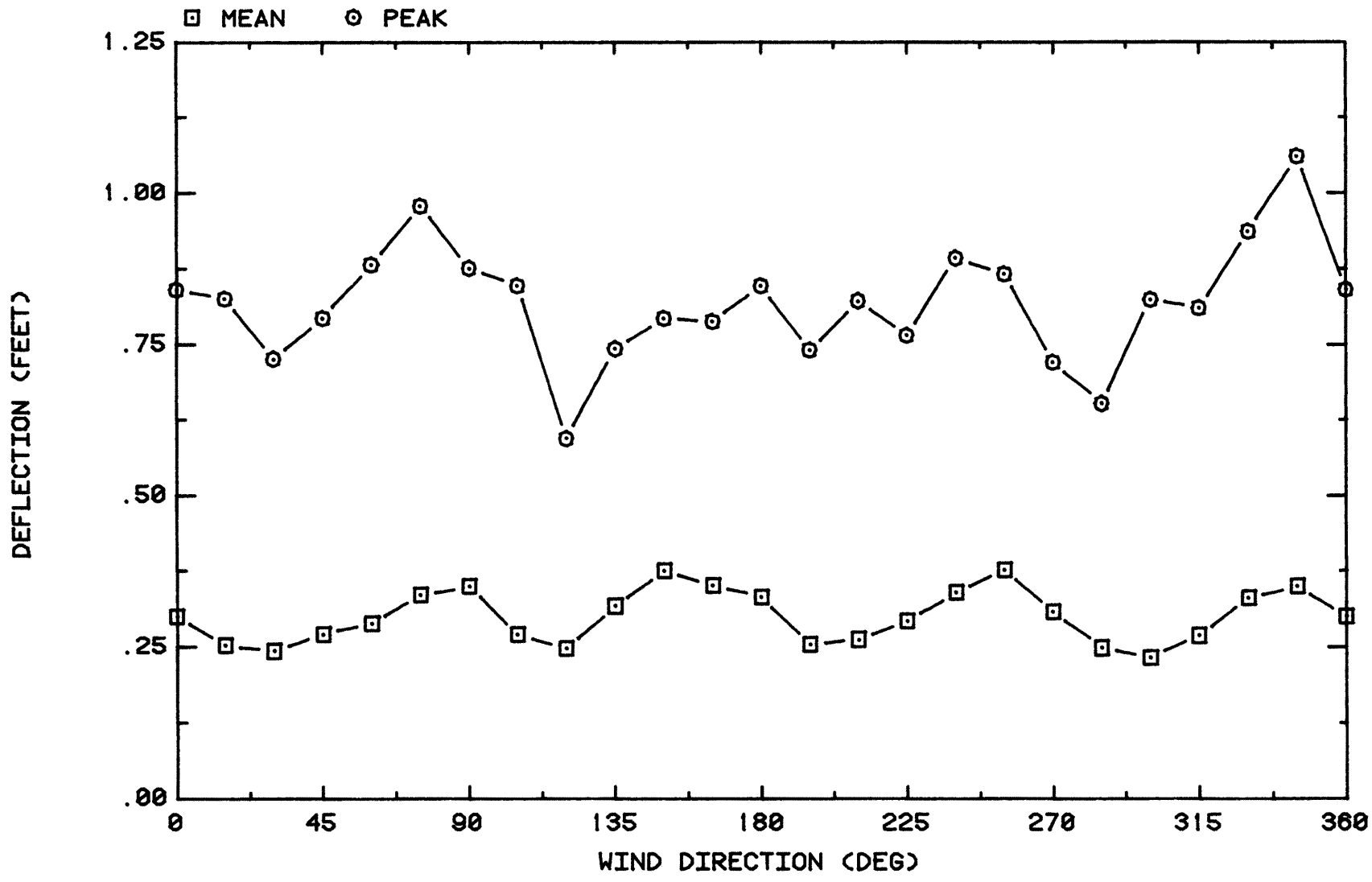


Figure 15b. ENVELOPE OF DEFLECTIONS AT 554 FT, 0.6% DAMPING RESULTANT (VECTOR) MAGNITUDES, 99 MPH (50 YEAR) WIND

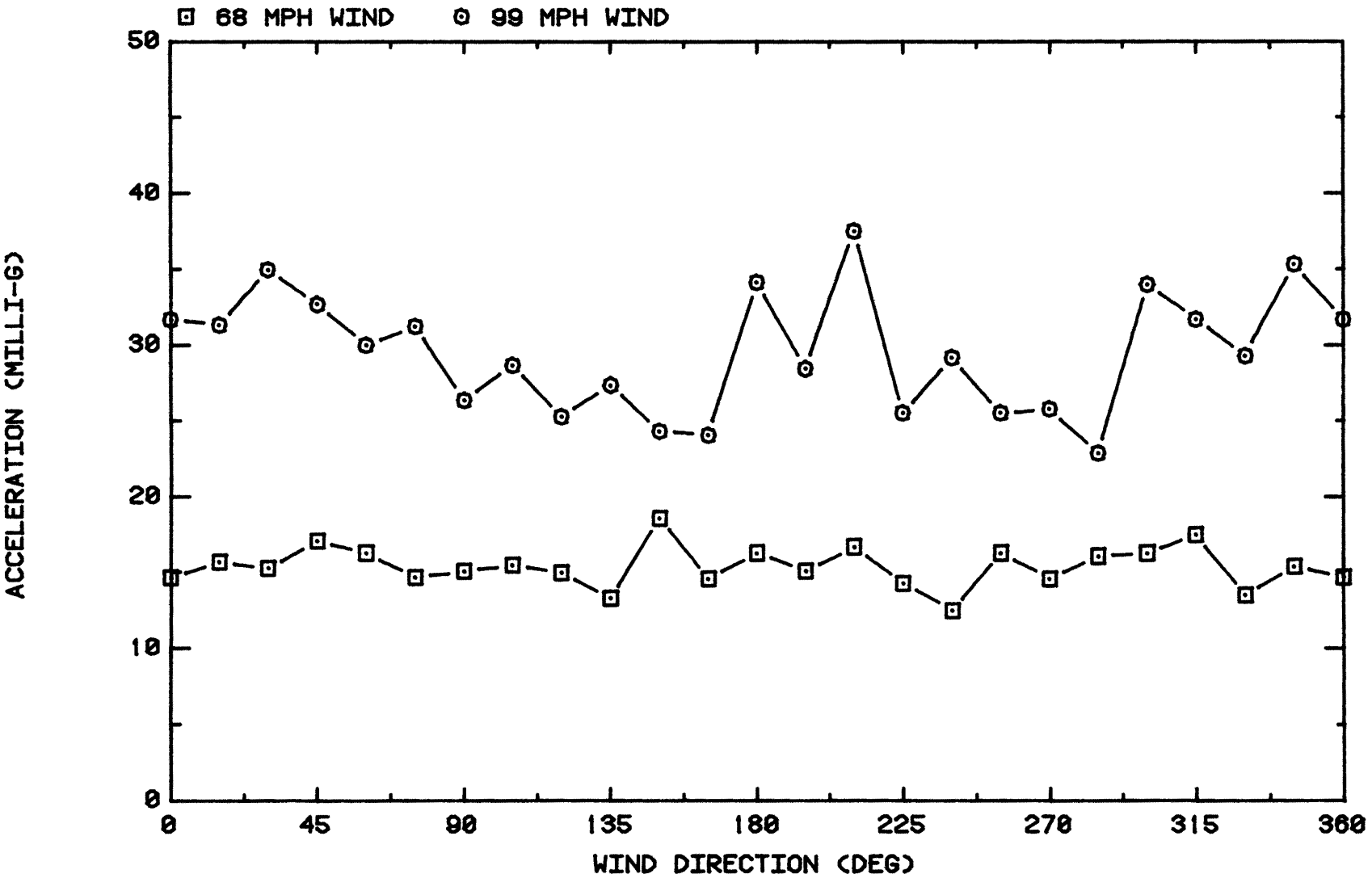


Figure 15c. PEAK RESULTANT (VECTOR) ACCELERATIONS AT 554 FT
0.6% DAMPING (HILL TO SOUTHWEST NOT SIMULATED)

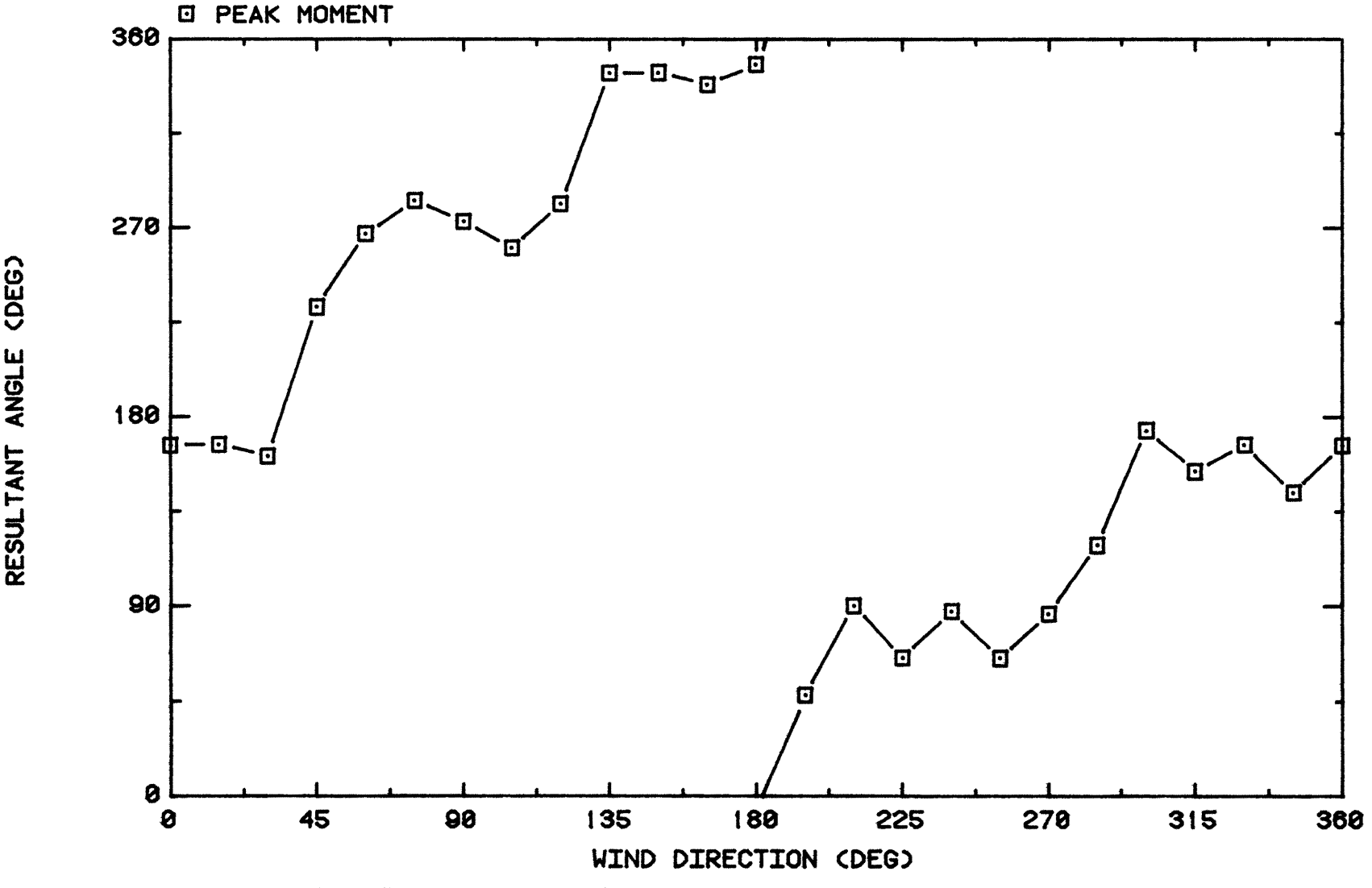


Figure 15d. AZIMUTH ANGLE OF PEAK BASE BENDING MOMENTS, 0.6% DAMPING
99 MPH (50 YEAR) WIND

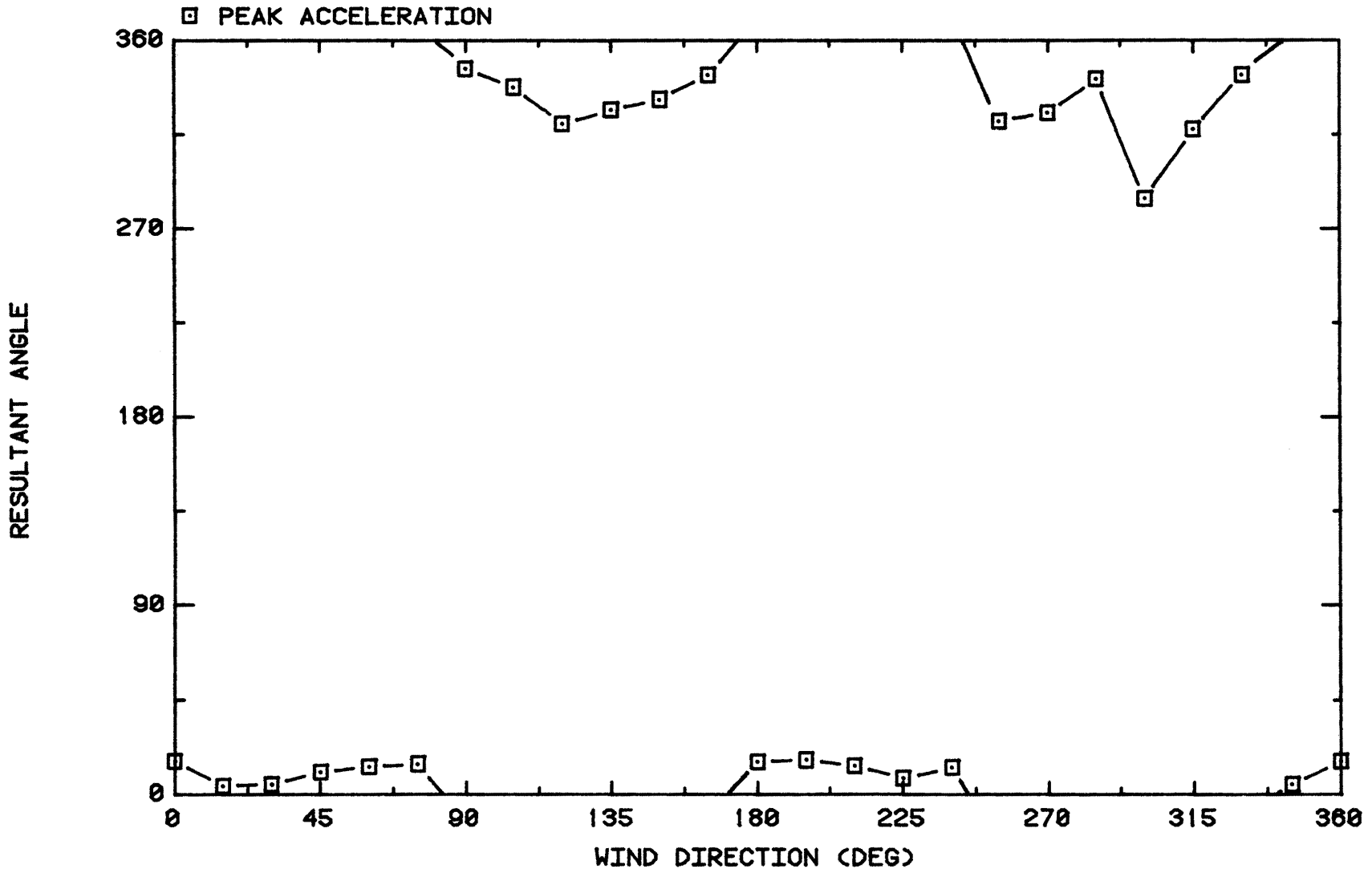


Figure 15e. AZIMUTH ANGLE OF PEAK ACCELERATIONS AT 554 FT, 0.6% DAMPING
99 MPH (50 YEAR) WIND

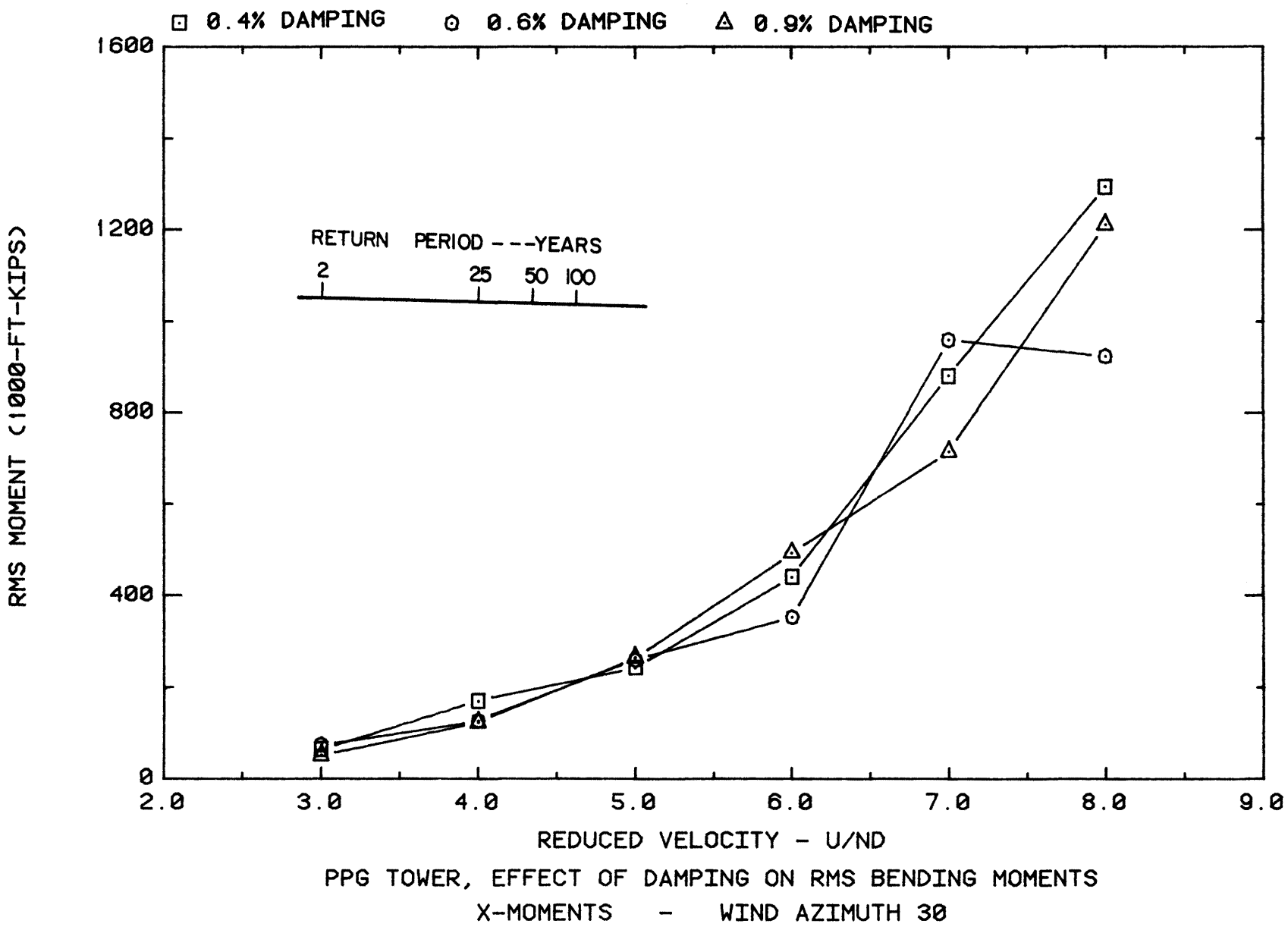


Figure 16a. Influence of Reduced Velocity and Damping on Building Response

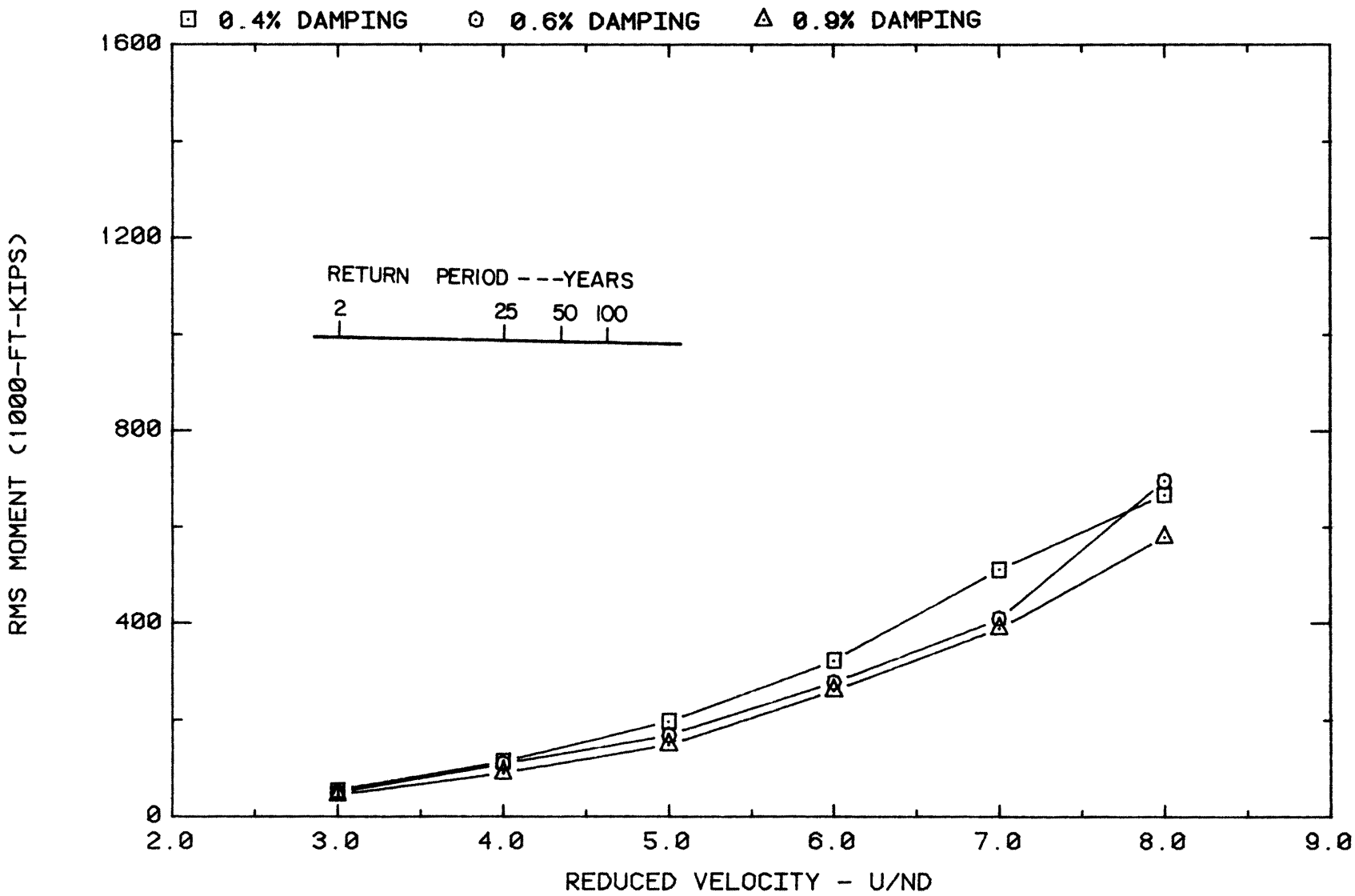


Figure 16b. Influence of Reduced Velocity and Damping on Building Response

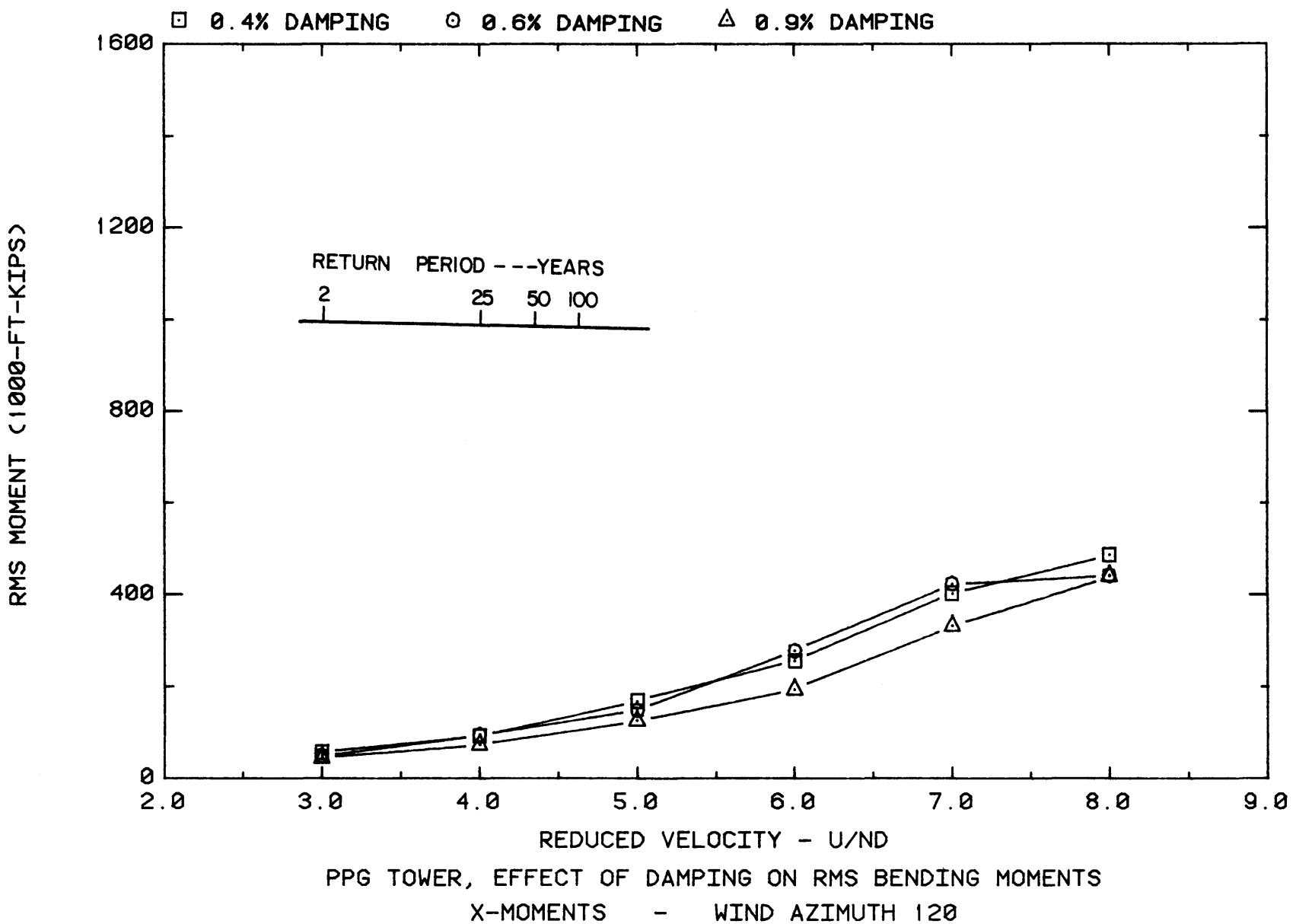


Figure 16c. Influence of Reduced Velocity and Damping on Building Response

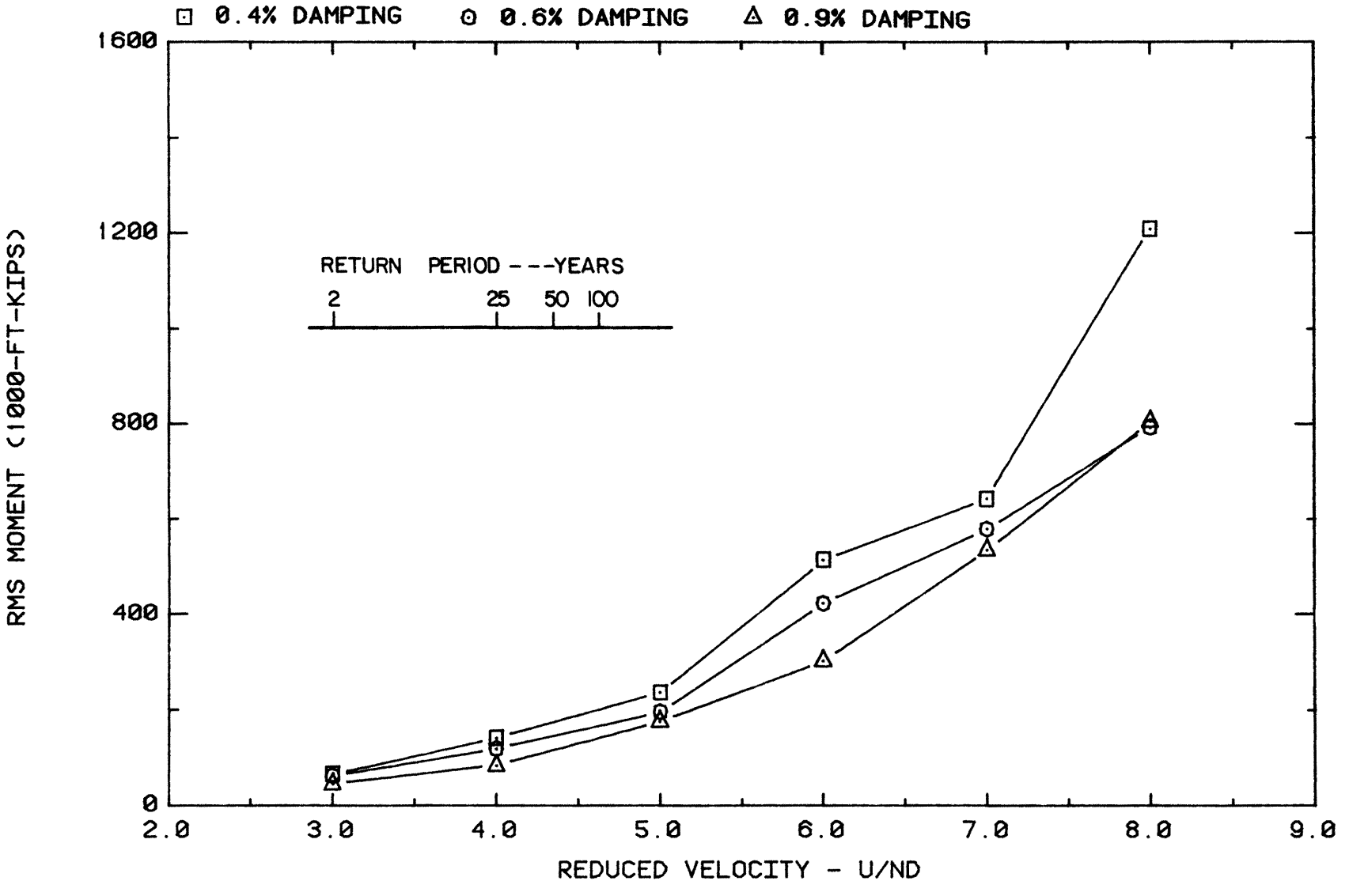


Figure 16d. Influence of Reduced Velocity and Damping on Building Response

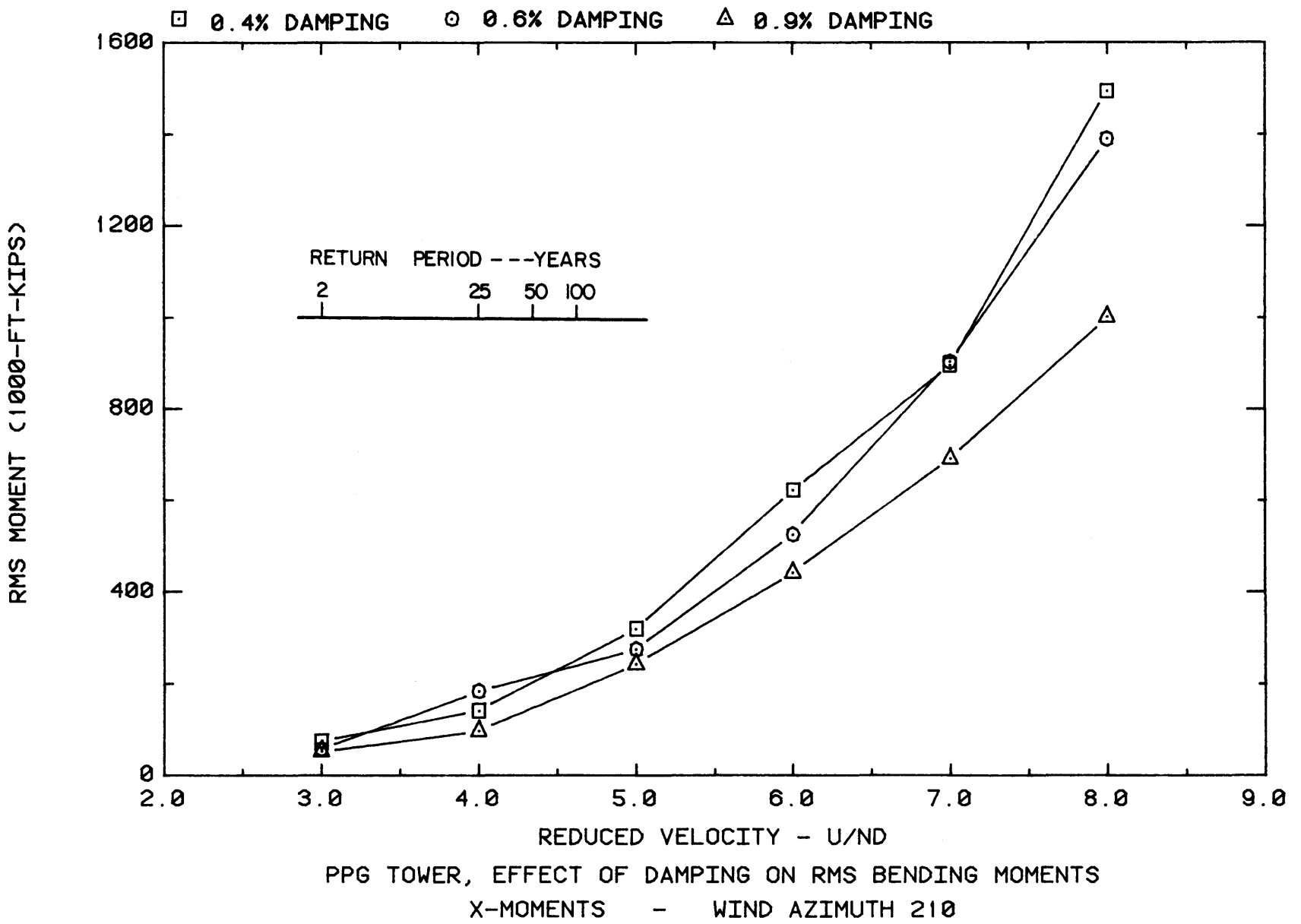


Figure 16e. Influence of Reduced Velocity and Damping on Building Response

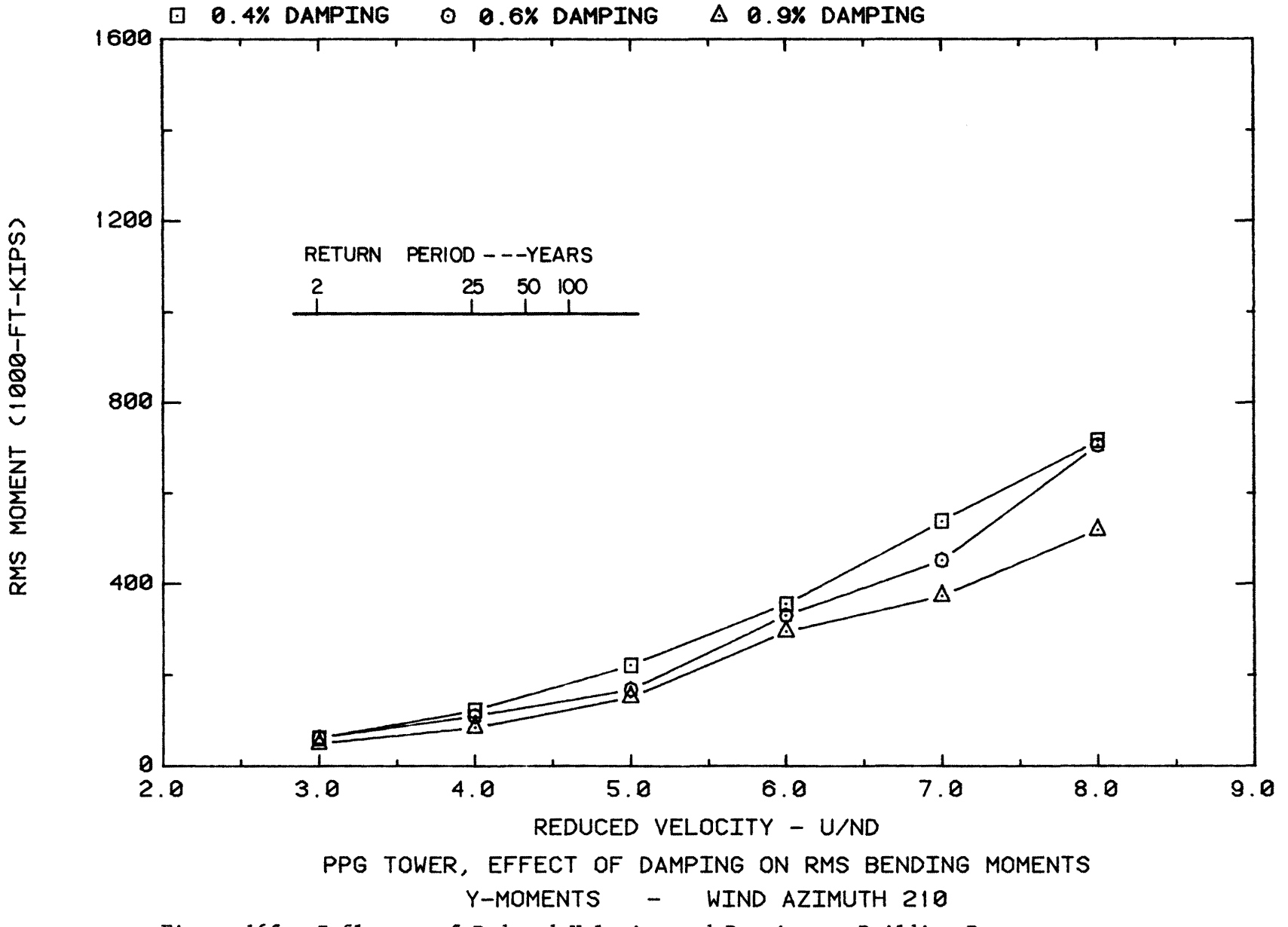


Figure 16f. Influence of Reduced Velocity and Damping on Building Response

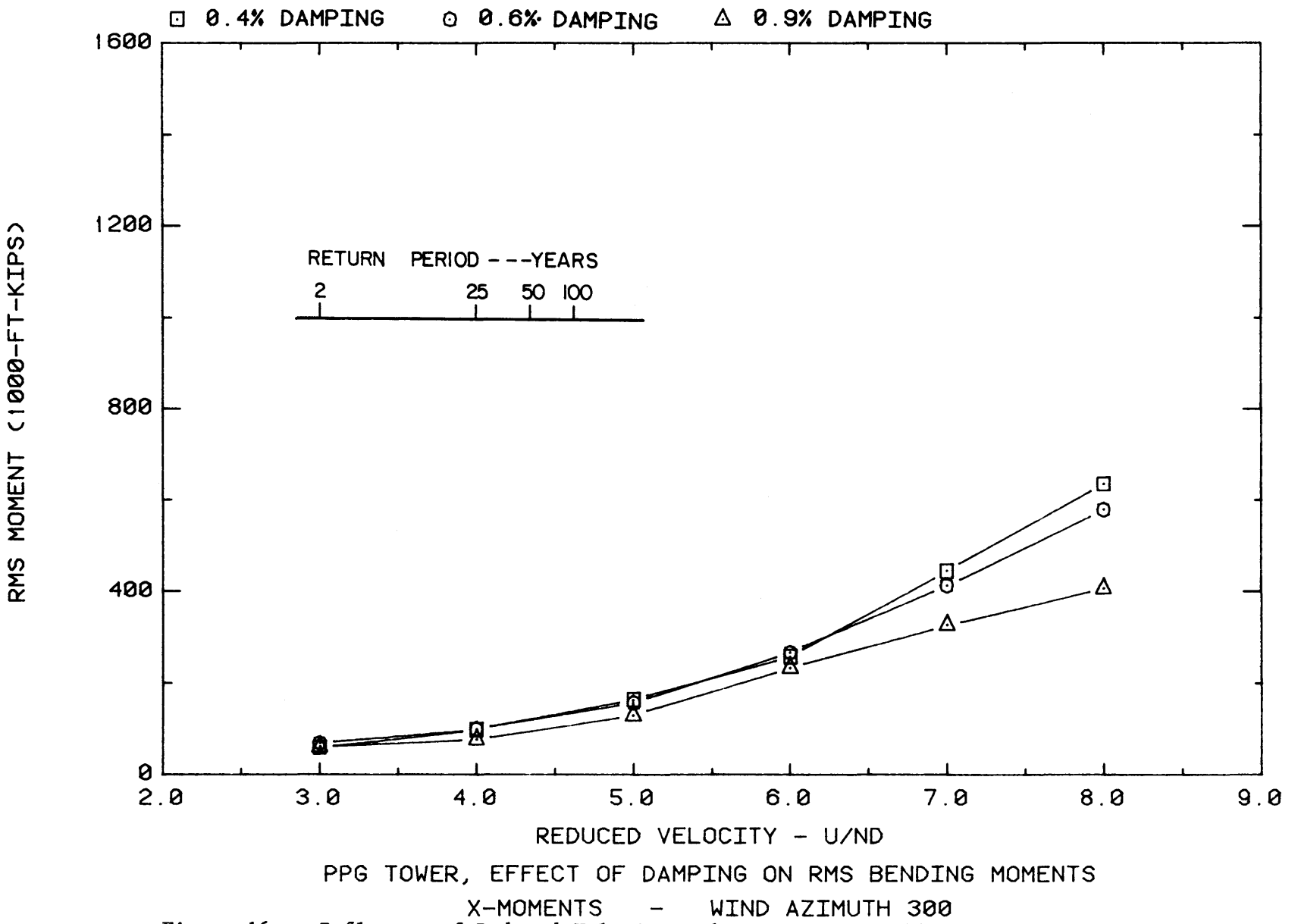


Figure 16g. Influence of Reduced Velocity and Damping on Building Response

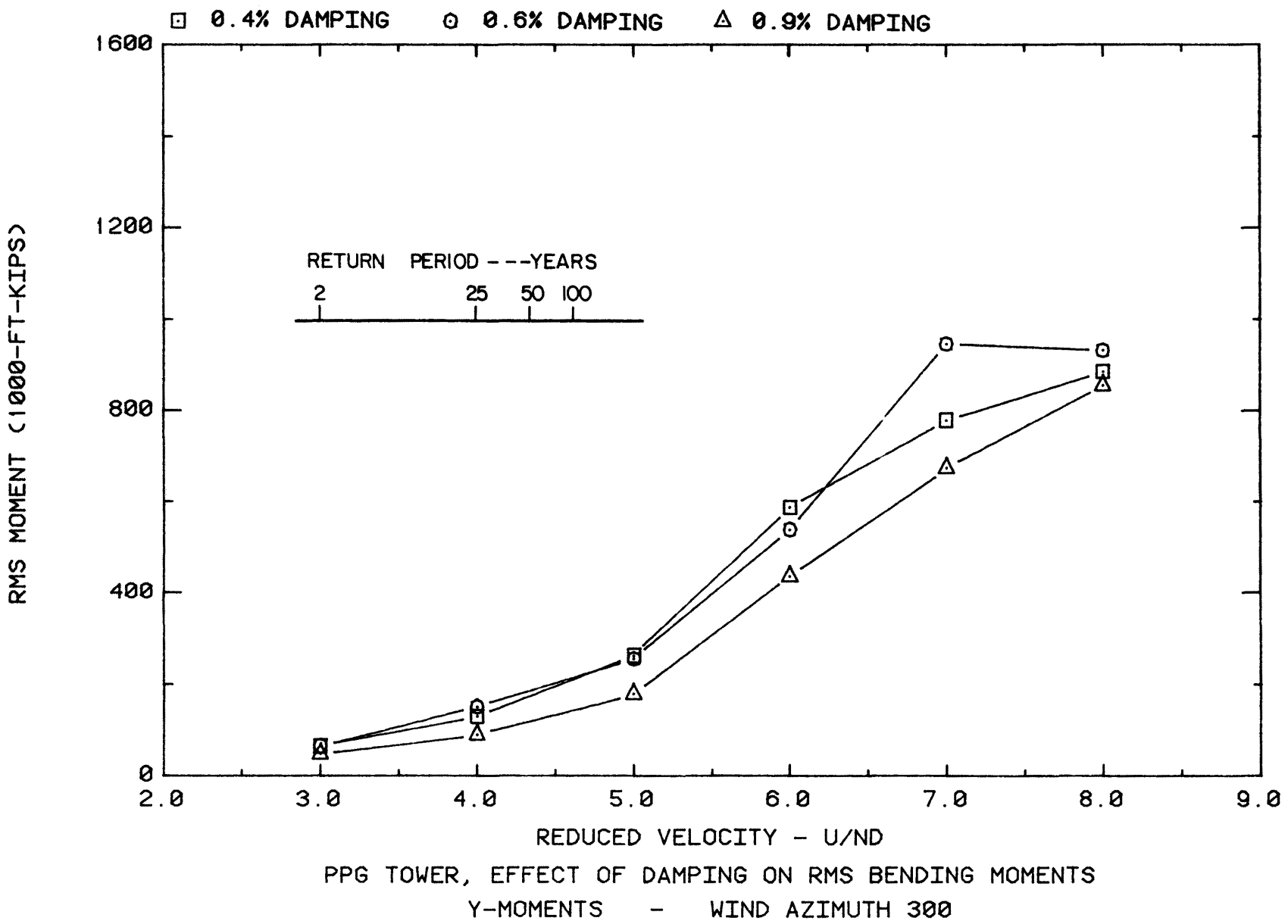
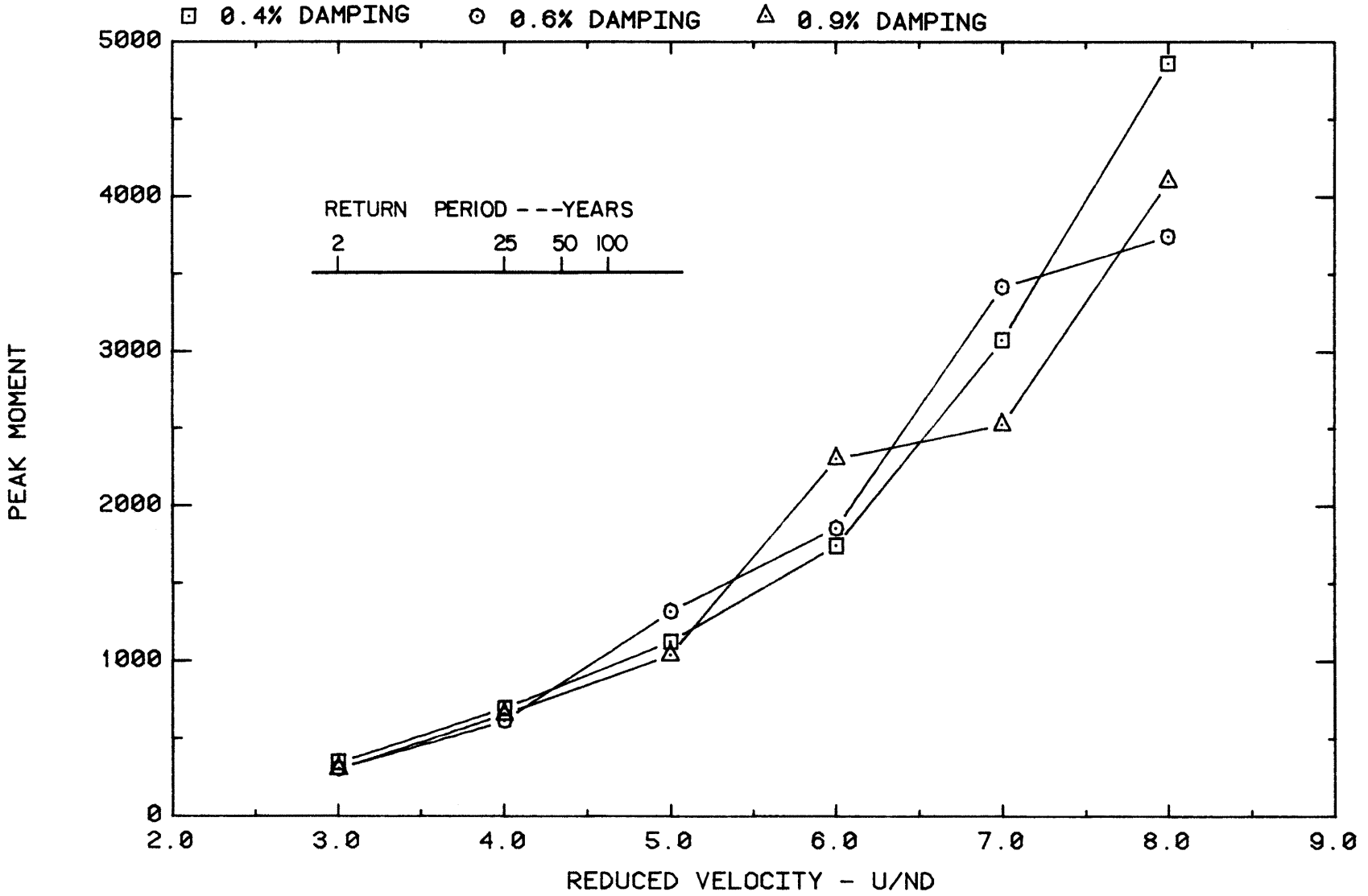
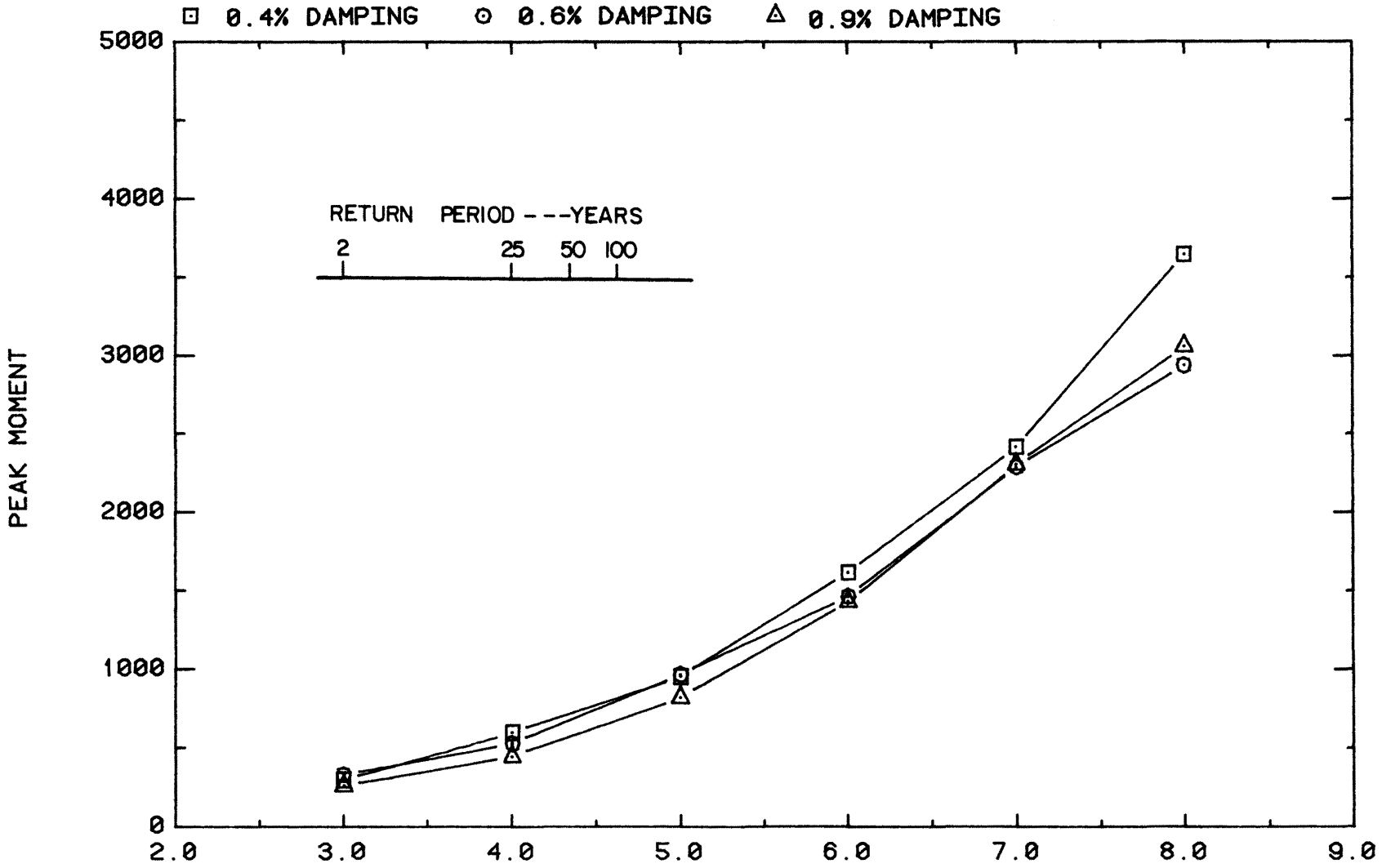


Figure 16h. Influence of Reduced Velocity and Damping on Building Response



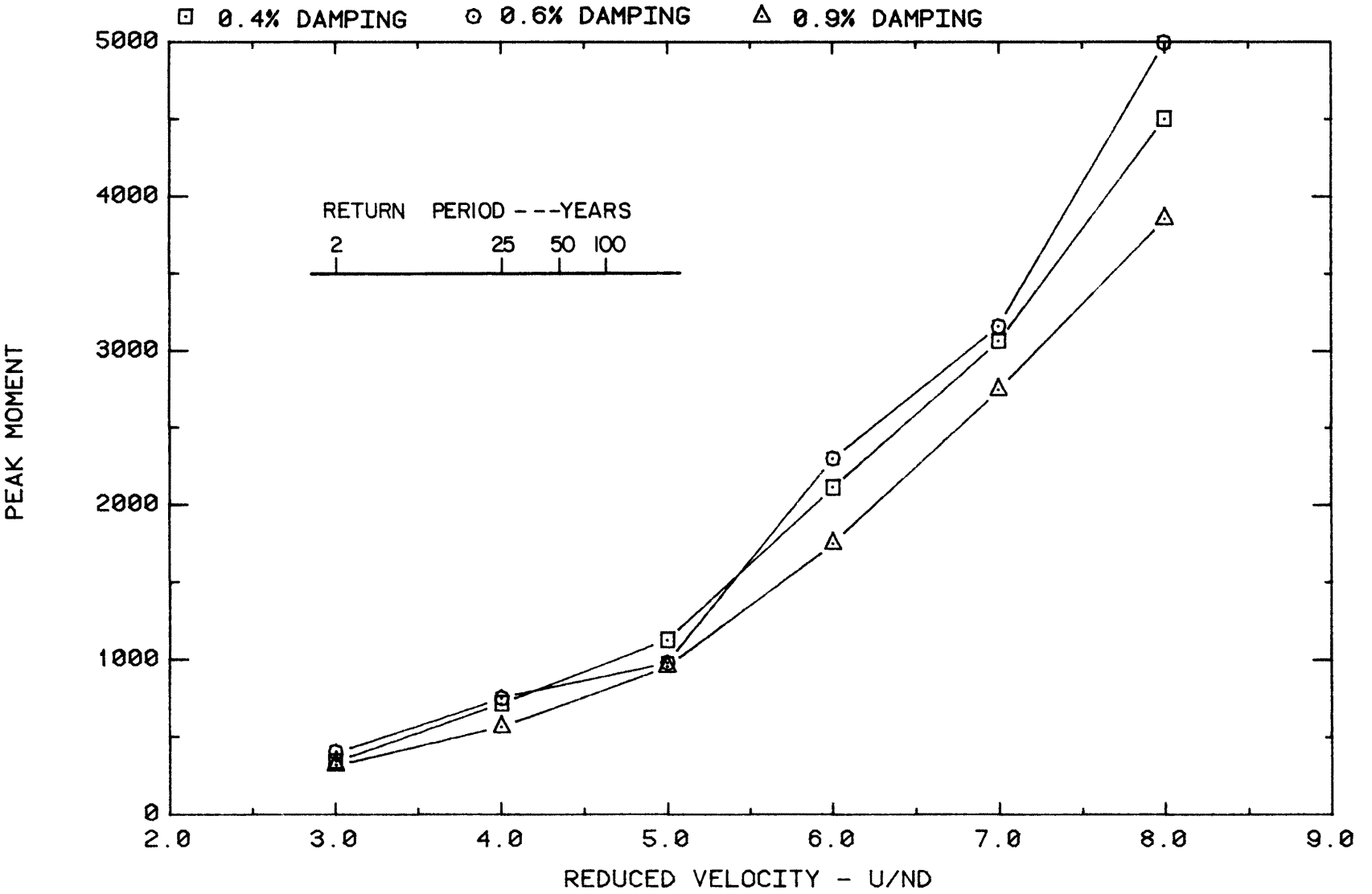
PEAK RESULTANT MOMENTS (1000-FT-KIPS) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 30

Figure 16i. Influence of Reduced Velocity and Damping on Building Response



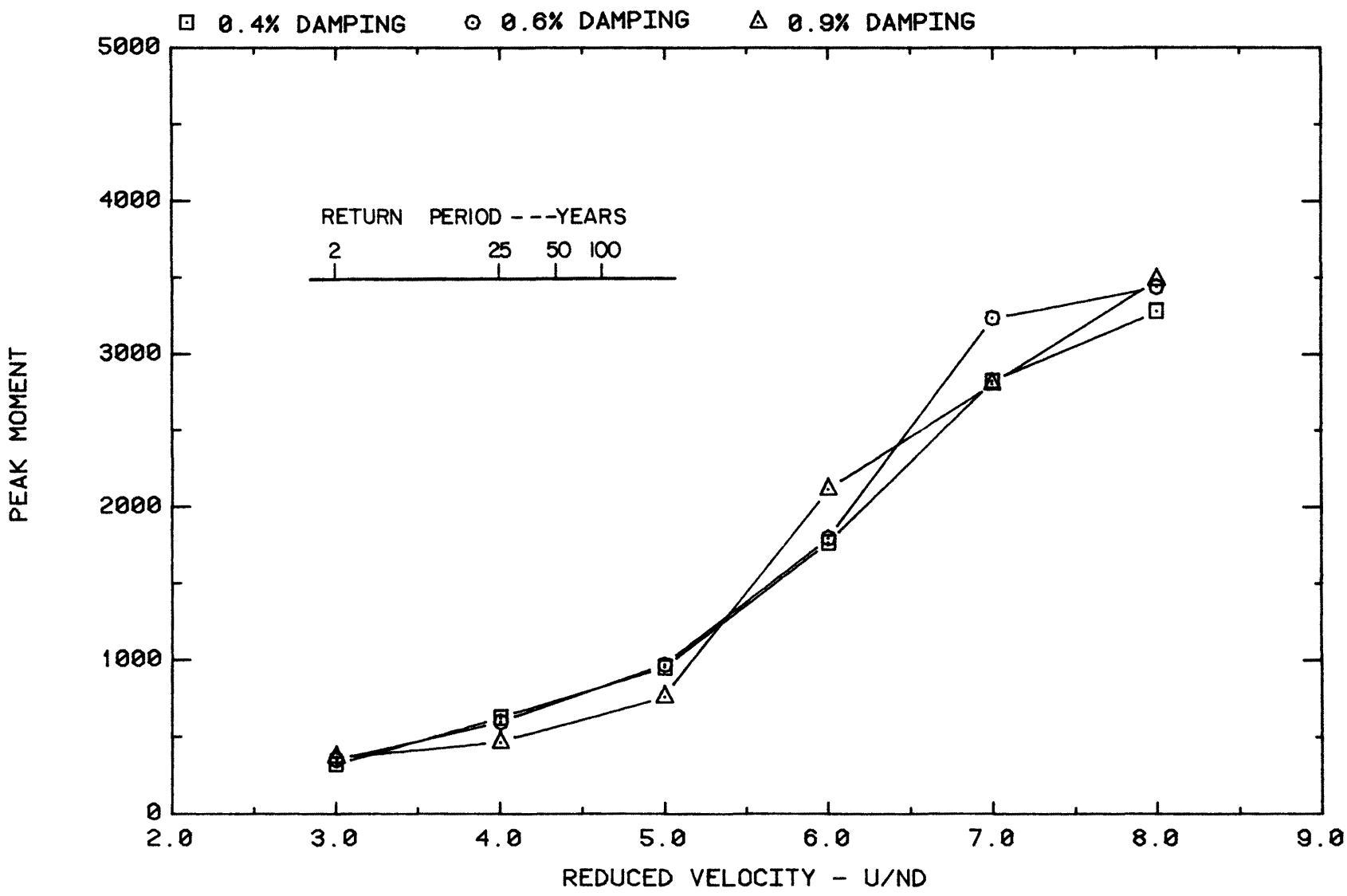
PEAK RESULTANT MOMENTS (1000-FT-KIPS) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 120

Figure 16j. Influence of Reduced Velocity and Damping on Building Response



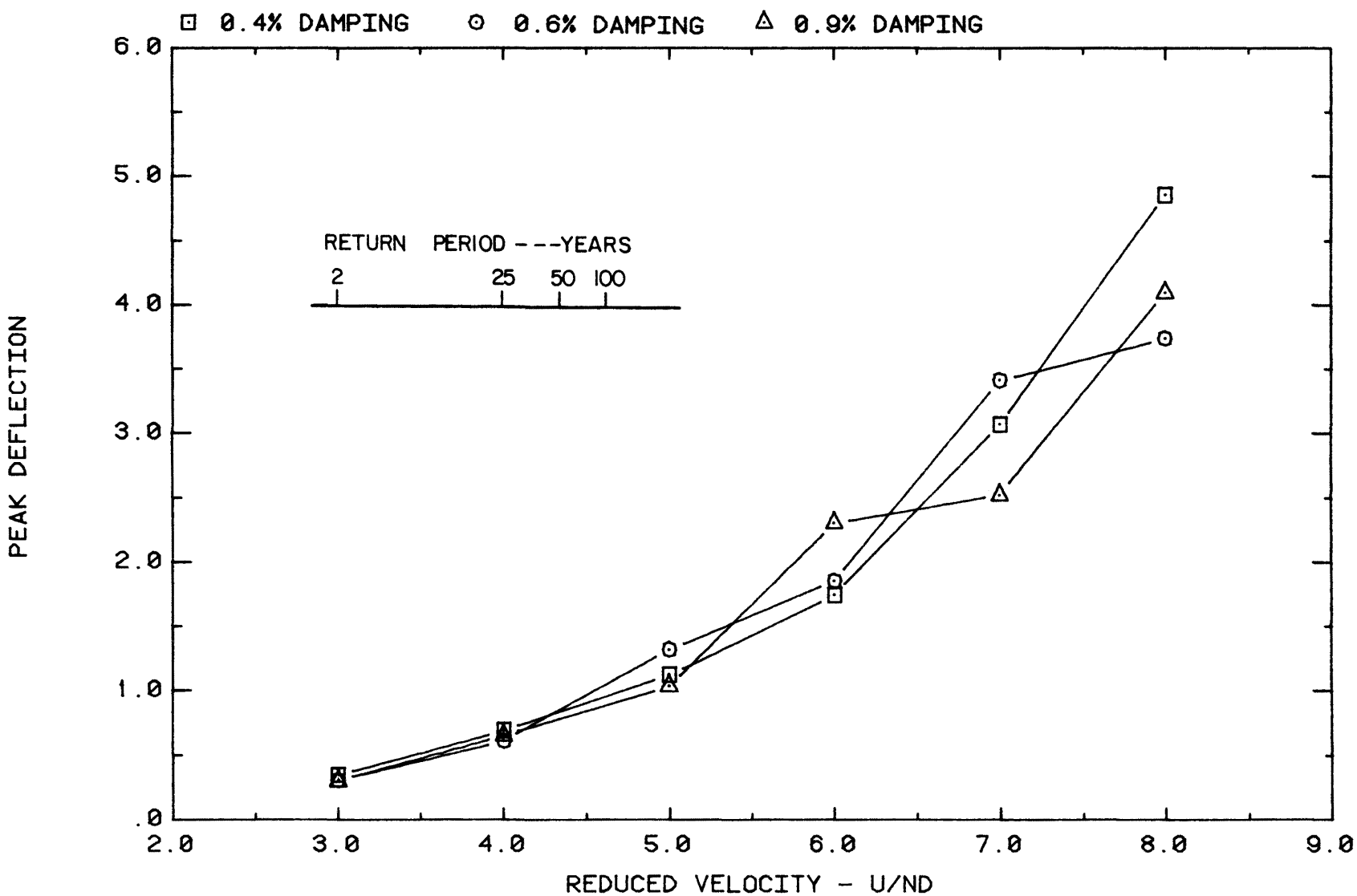
PEAK RESULTANT MOMENTS (1000-FT-KIPS) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 210

Figure 16k. Influence of Reduced Velocity and Damping on Building Response



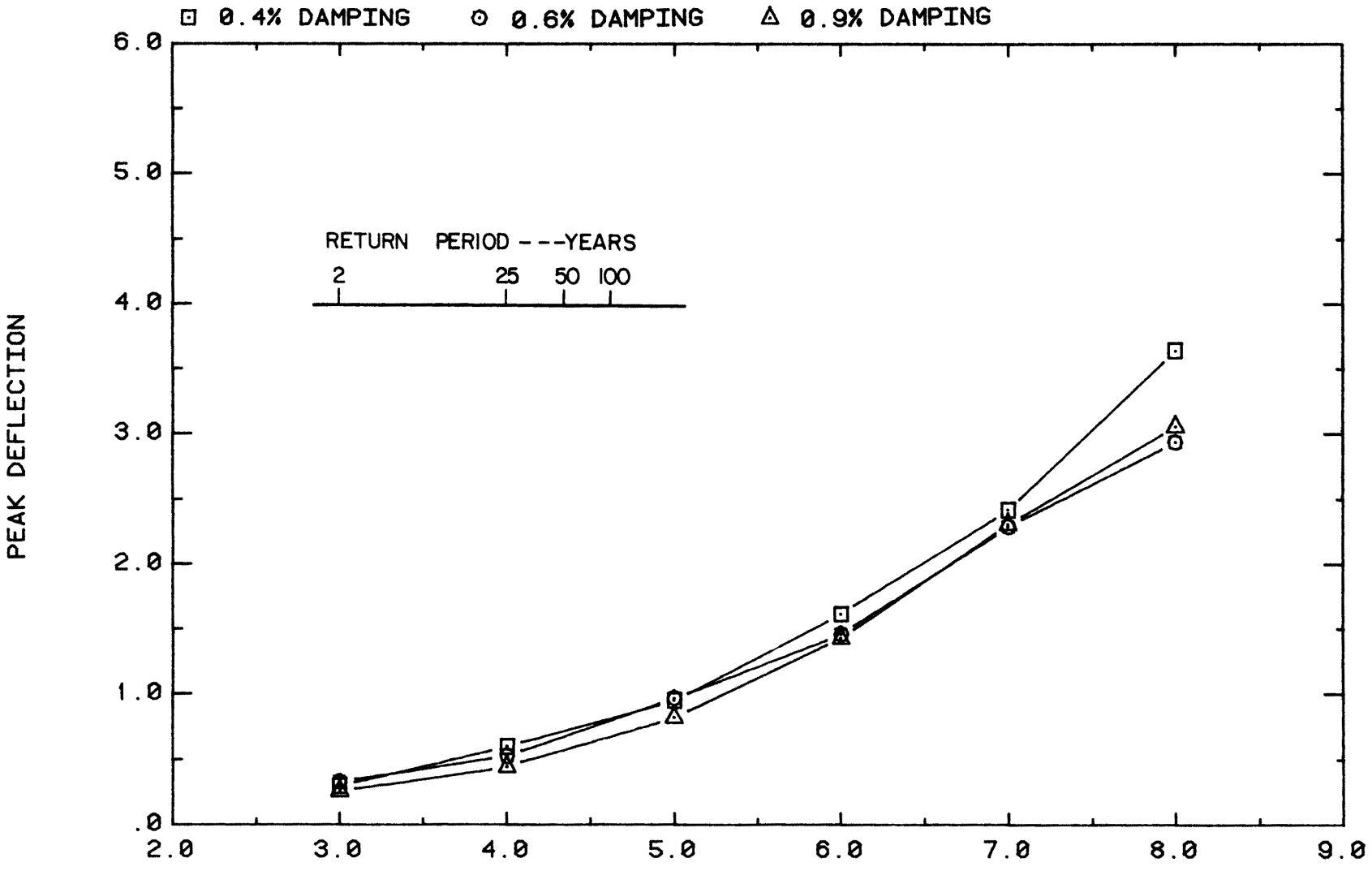
PEAK RESULTANT MOMENTS (1000-FT-KIPS) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 300

Figure 161. Influence of Reduced Velocity and Damping on Building Response



PEAK RESULTANT DEFLECTIONS (FEET) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 30

Figure 16m. Influence of Reduced Velocity and Damping on Building Response



PEAK RESULTANT DEFLECTIONS (FEET) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 120

Figure 16n. Influence of Reduced Velocity and Damping on Building Response

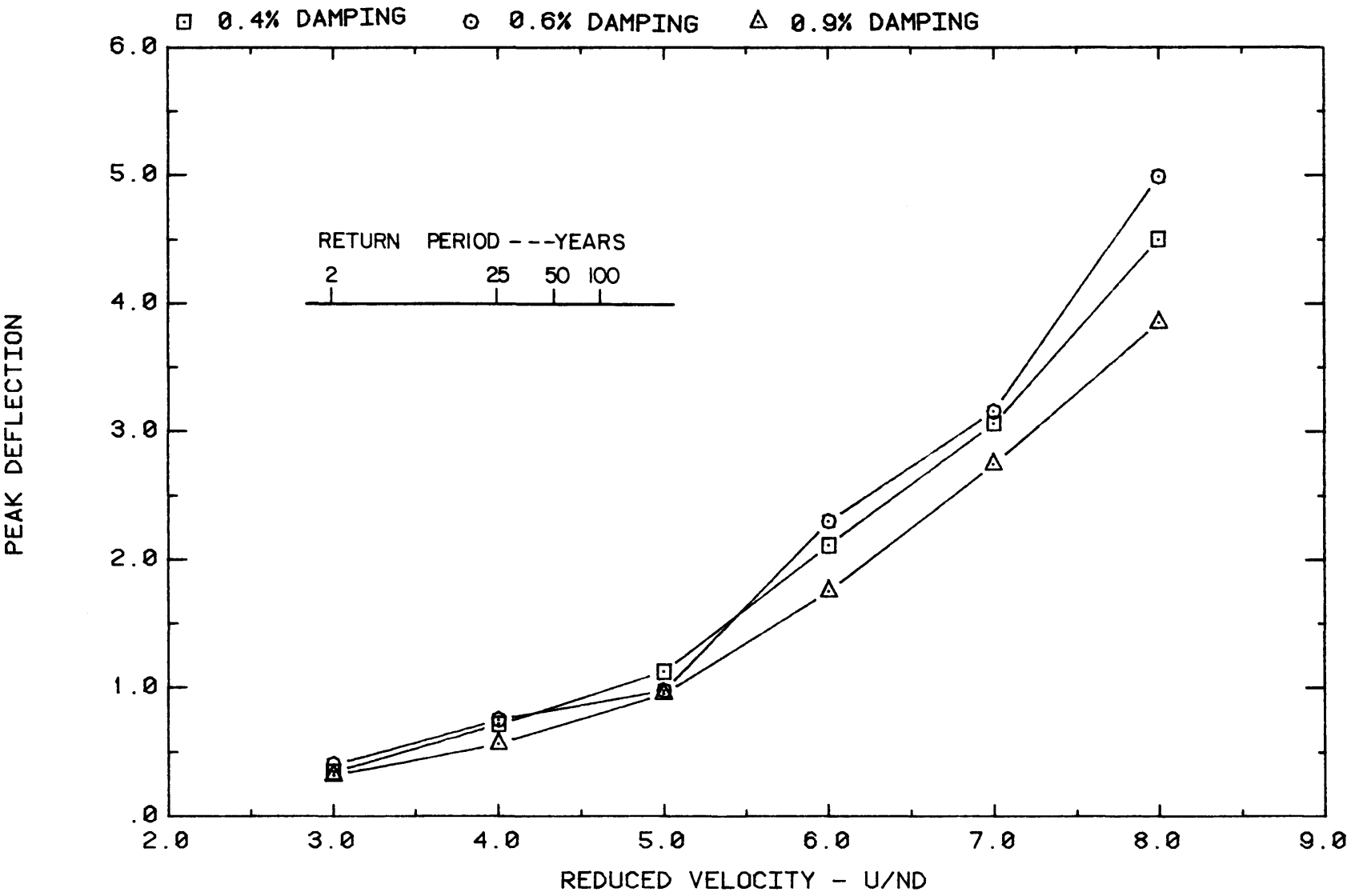
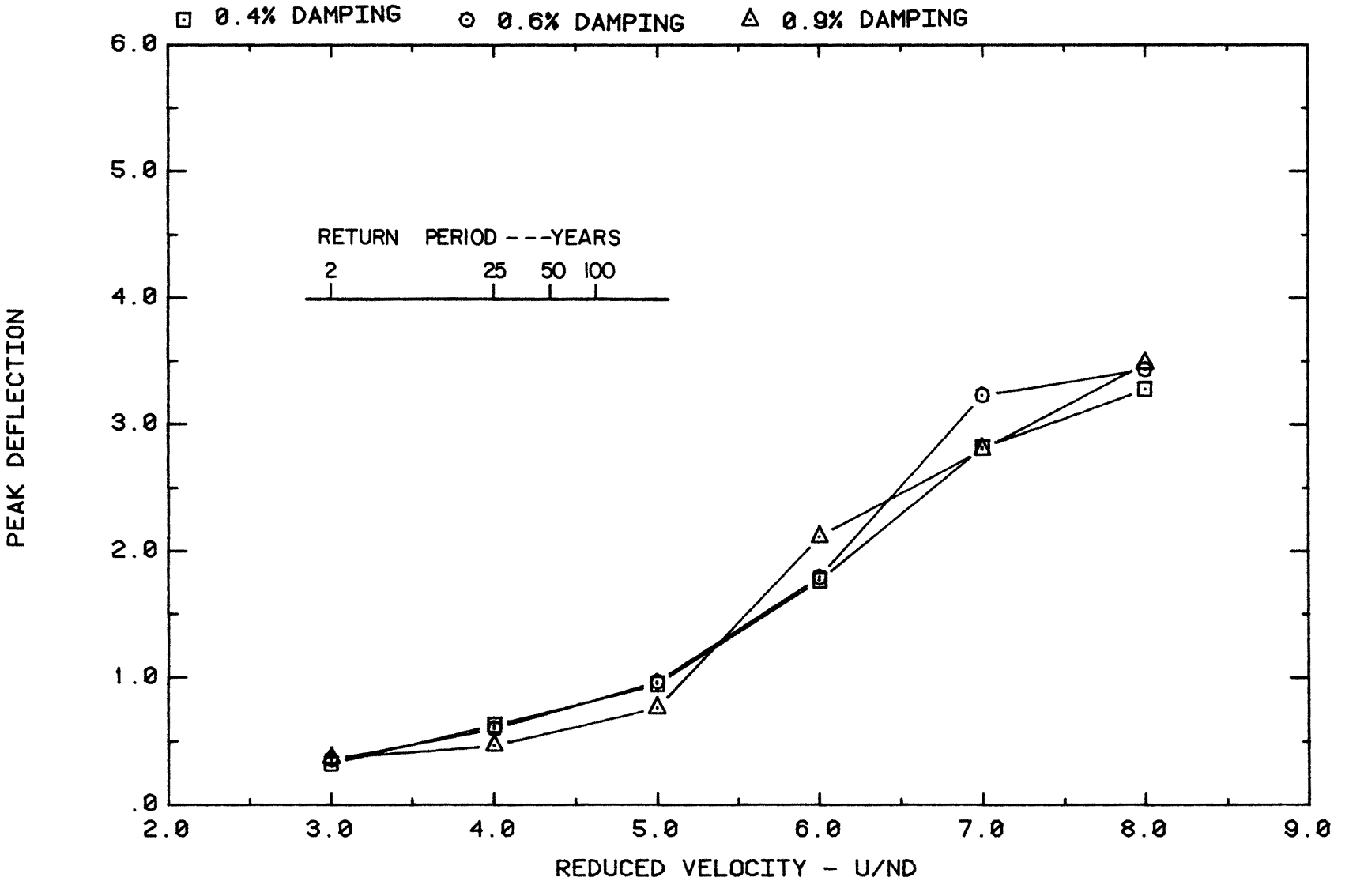


Figure 16o. Influence of Reduced Velocity and Damping on Building Response



PEAK RESULTANT DEFLECTIONS (FEET) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 300

Figure 16p. Influence of Reduced Velocity and Damping on Building Response

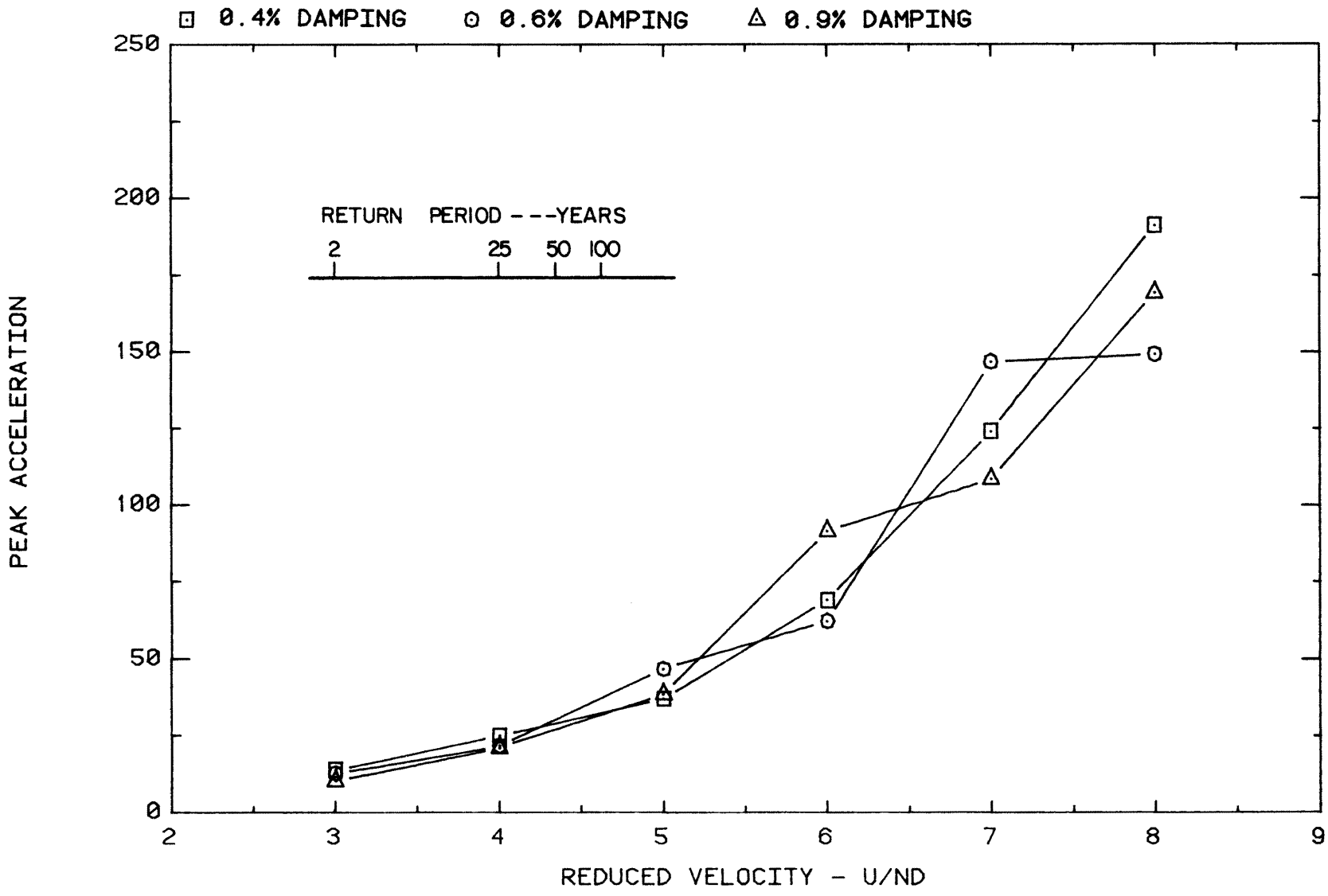
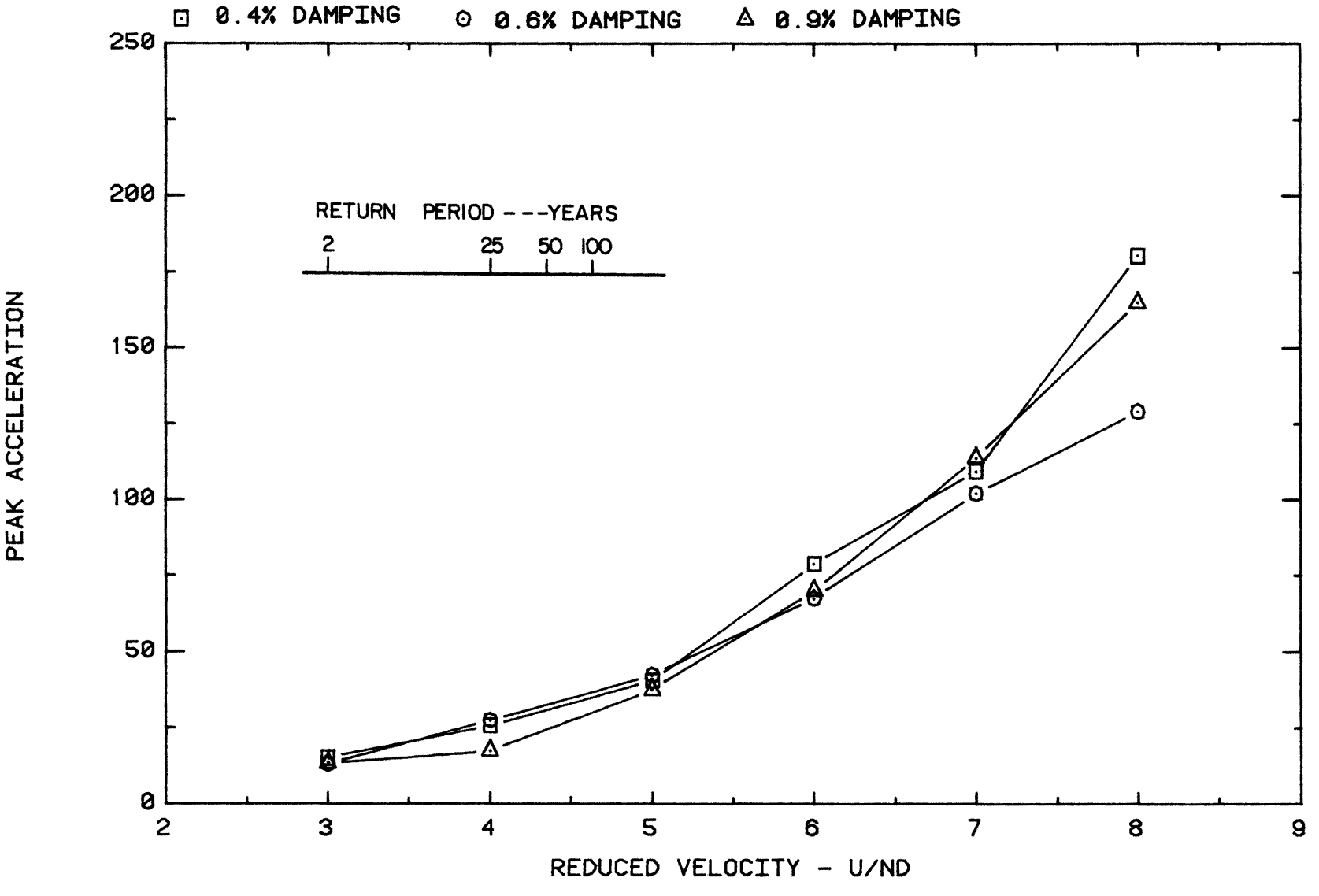


Figure 16q. Influence of Reduced Velocity and Damping on Building Response



PEAK RESULTANT ACCELERATIONS (MILLI-G) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 120

Figure 16r. Influence of Reduced Velocity and Damping on Building Response

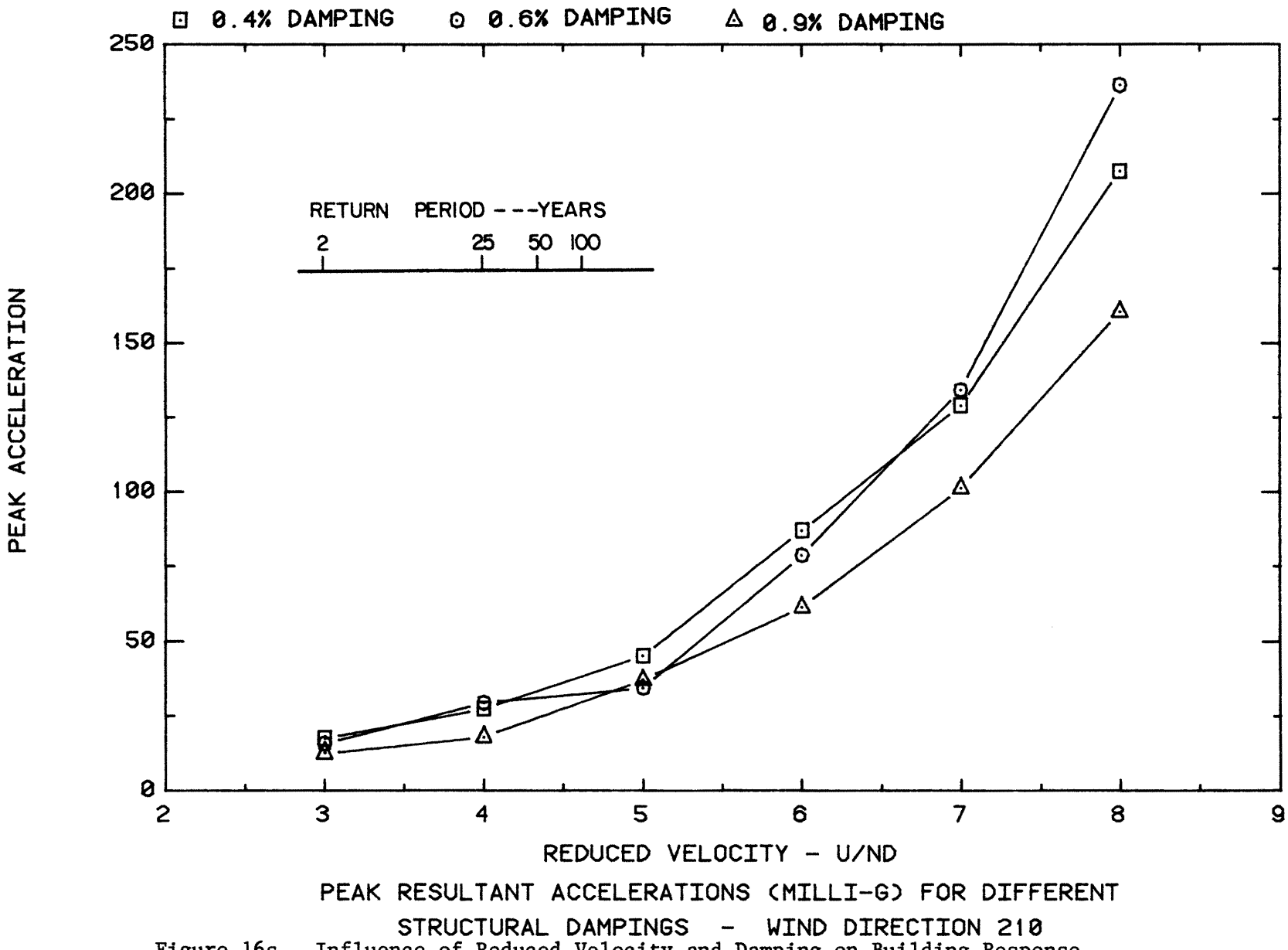
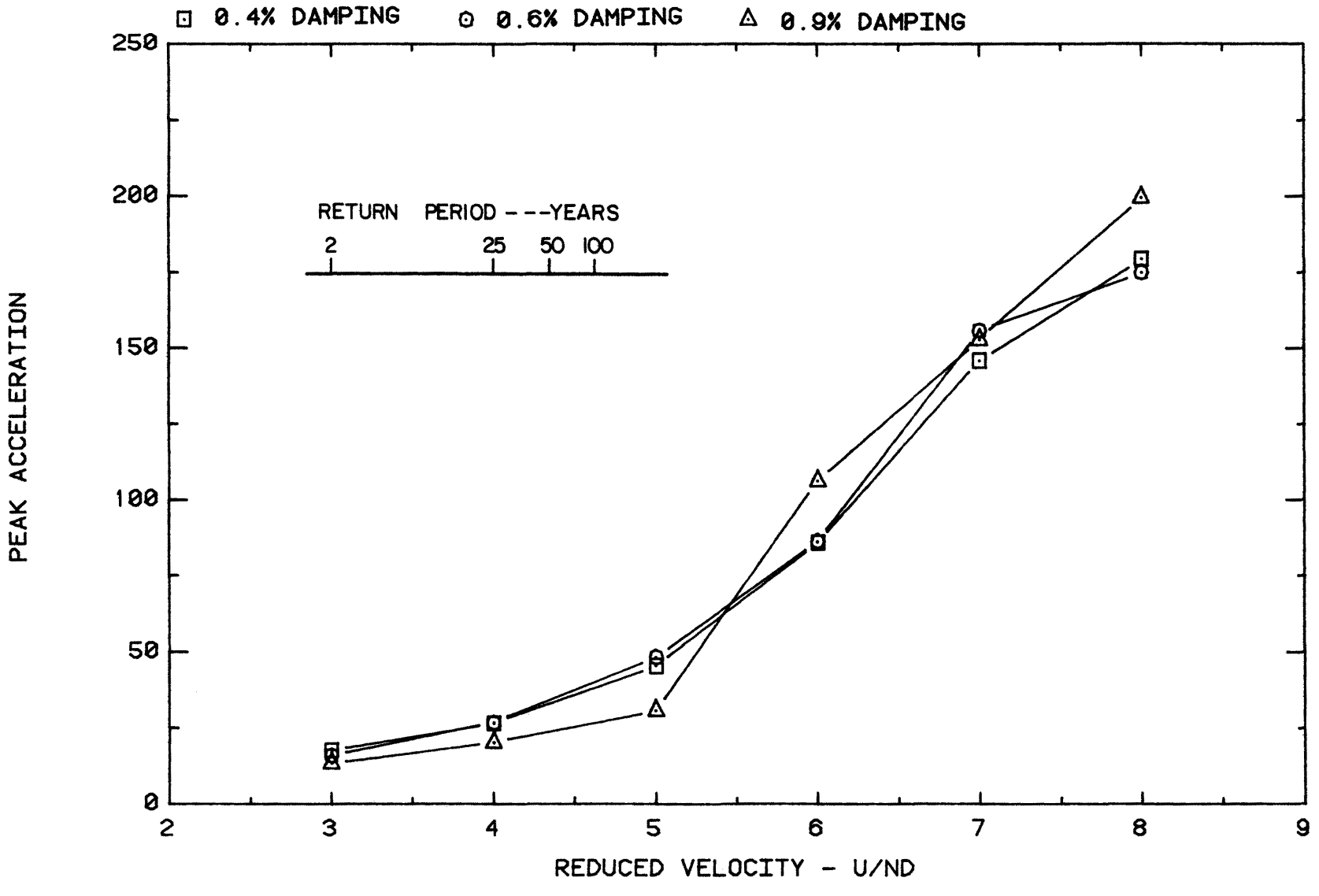


Figure 16s. Influence of Reduced Velocity and Damping on Building Response



PEAK RESULTANT ACCELERATIONS (MILLI-G) FOR DIFFERENT STRUCTURAL DAMPINGS - WIND DIRECTION 300

Figure 16t. Influence of Reduced Velocity and Damping on Building Response

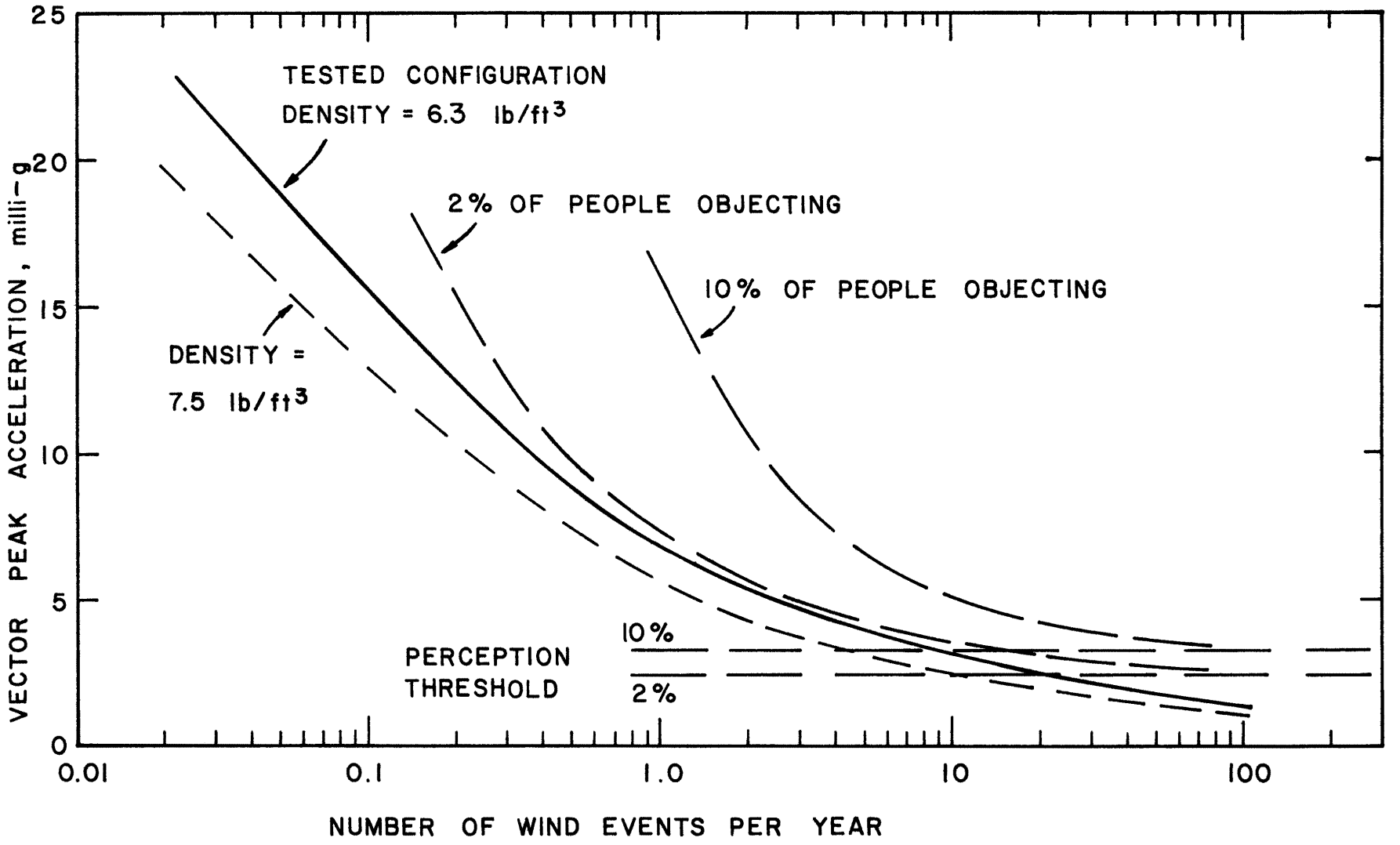


Figure 17. Predicted Peak Acceleration on Top Floor for Various Frequencies of Wind Events

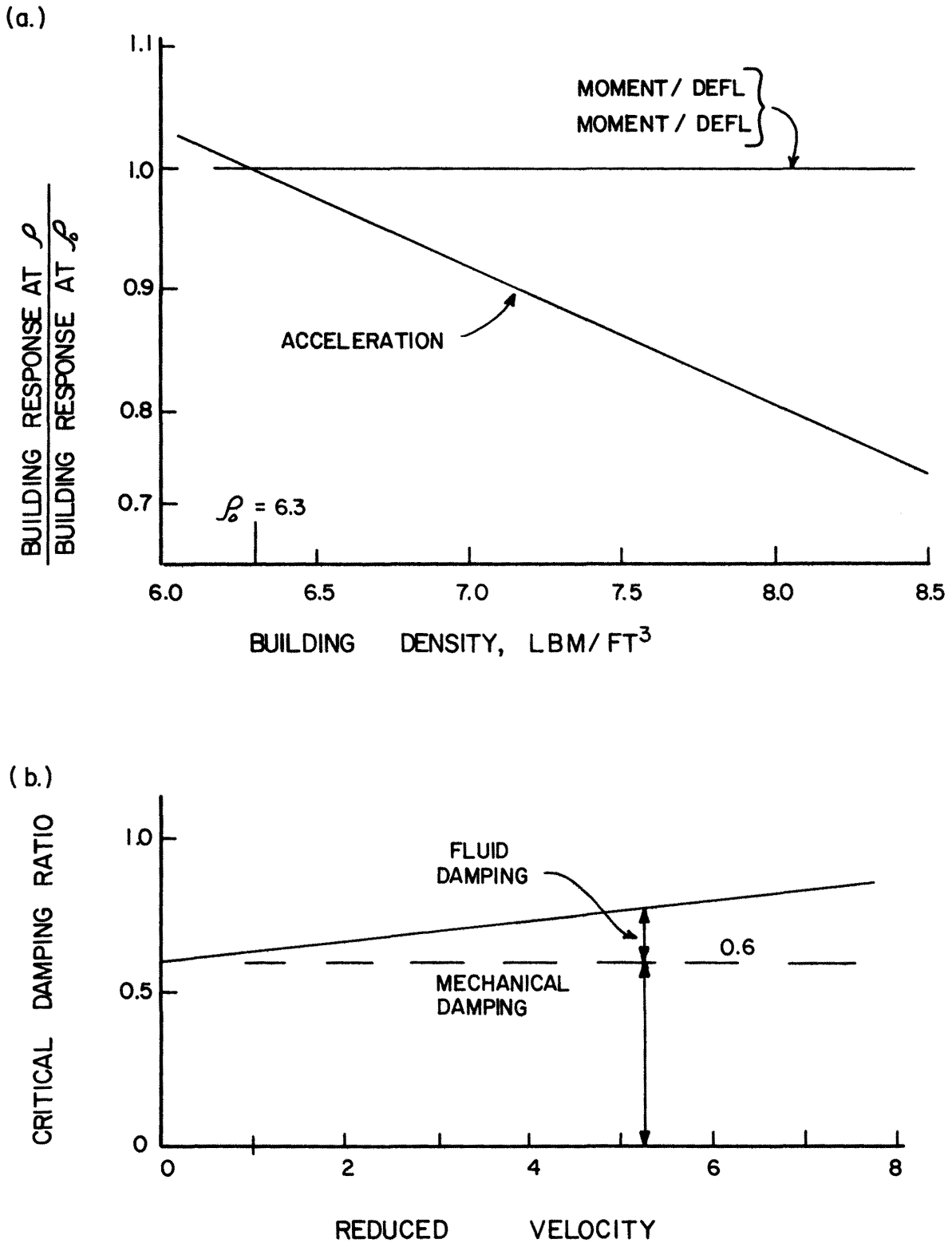


Figure 18. Estimated Variations of Building Response and Building Damping as a Function of Density and Reduced Velocity

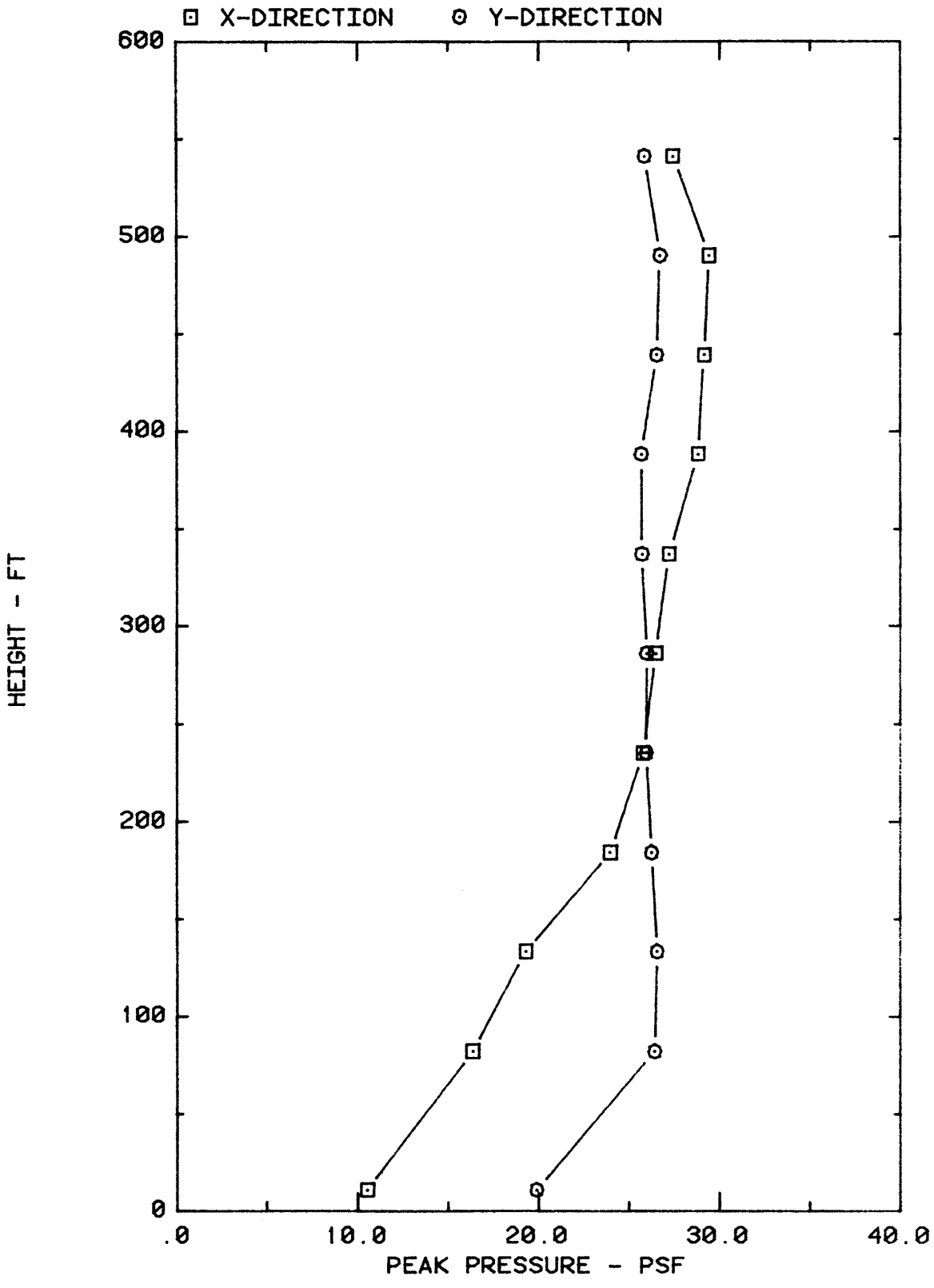


Figure 19a. Equivalent Static Load Diagrams

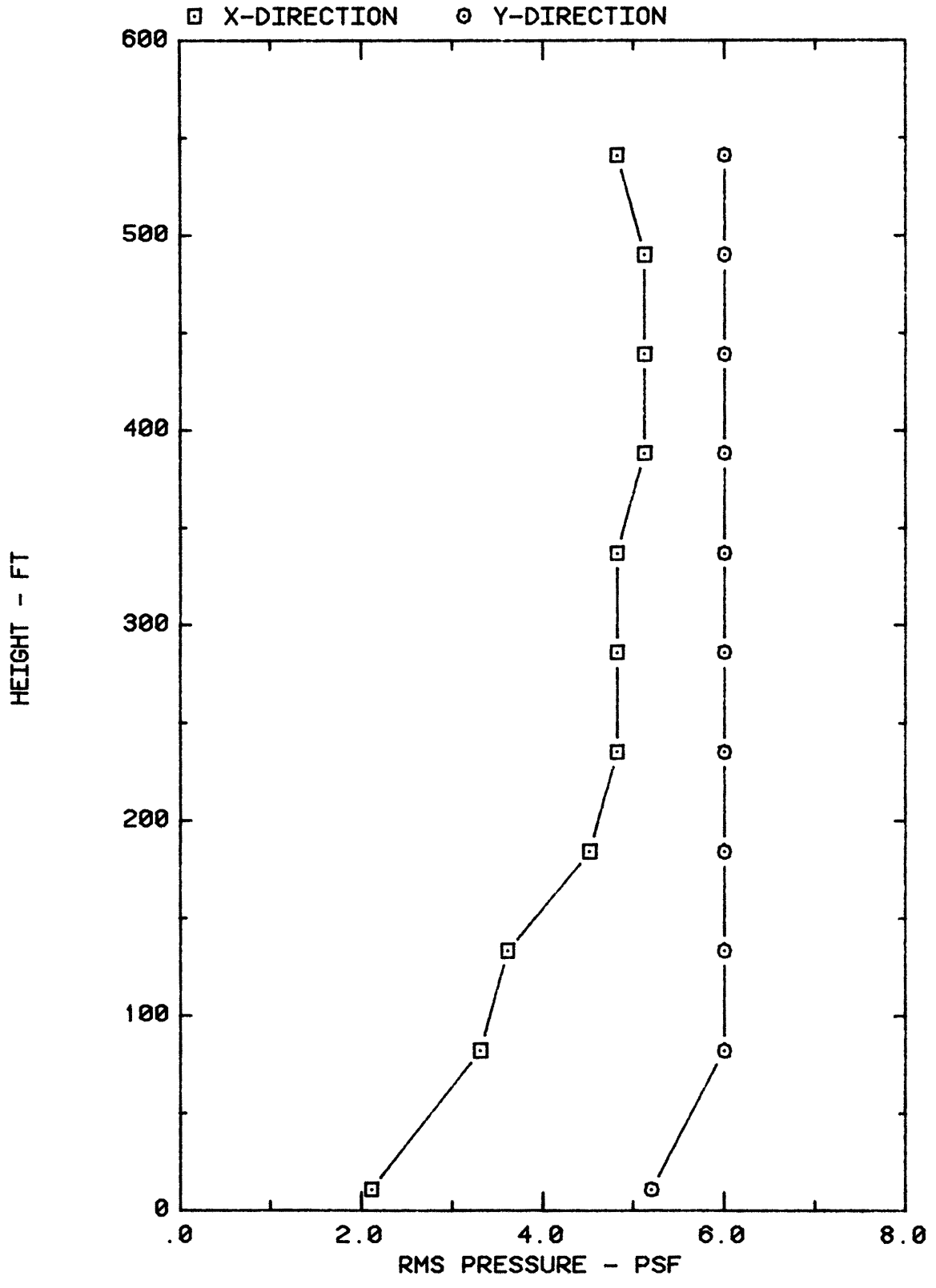


Figure 19b. Equivalent Static Load Diagrams

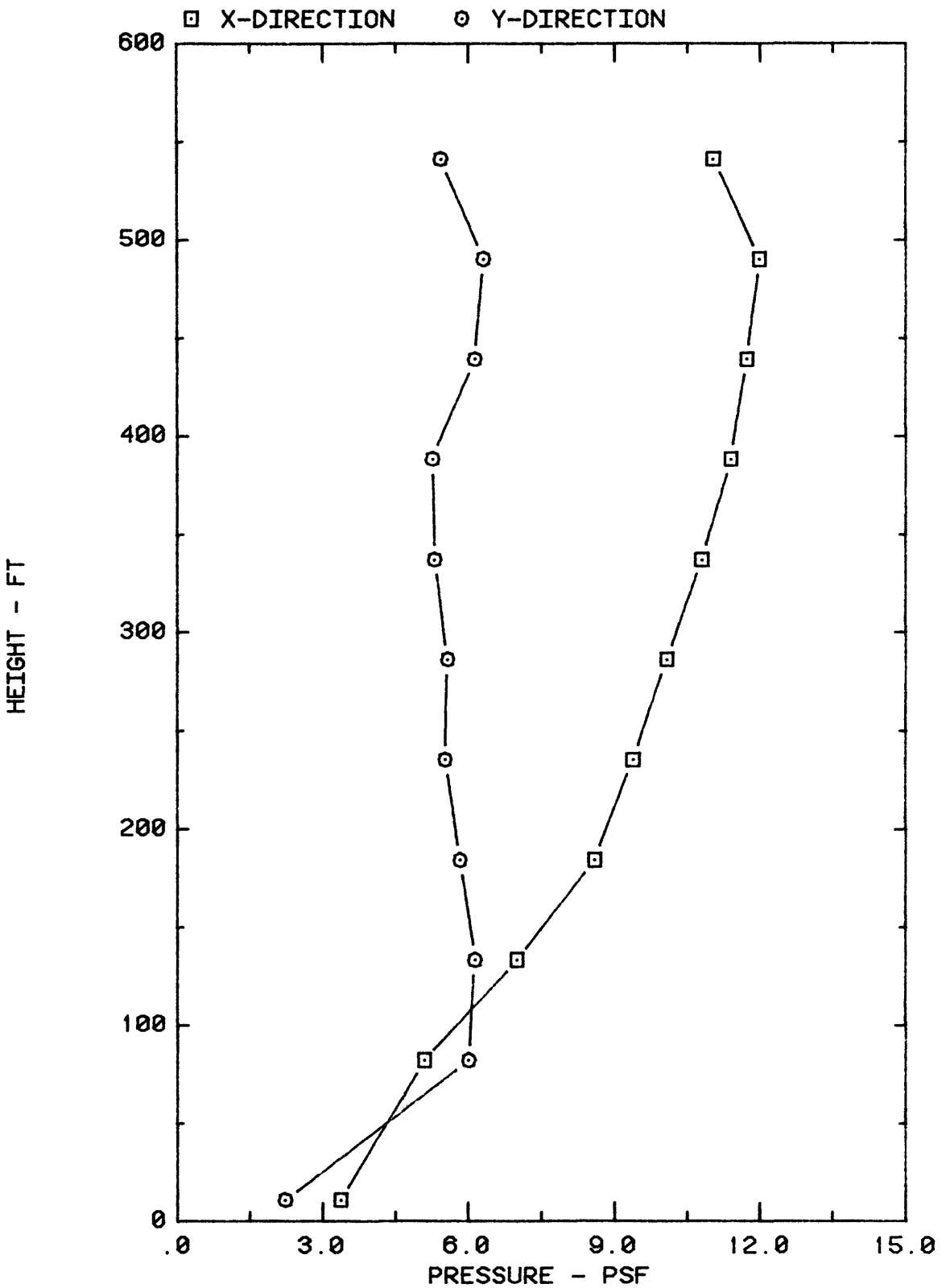


Figure 19c. Equivalent Static Load Diagrams

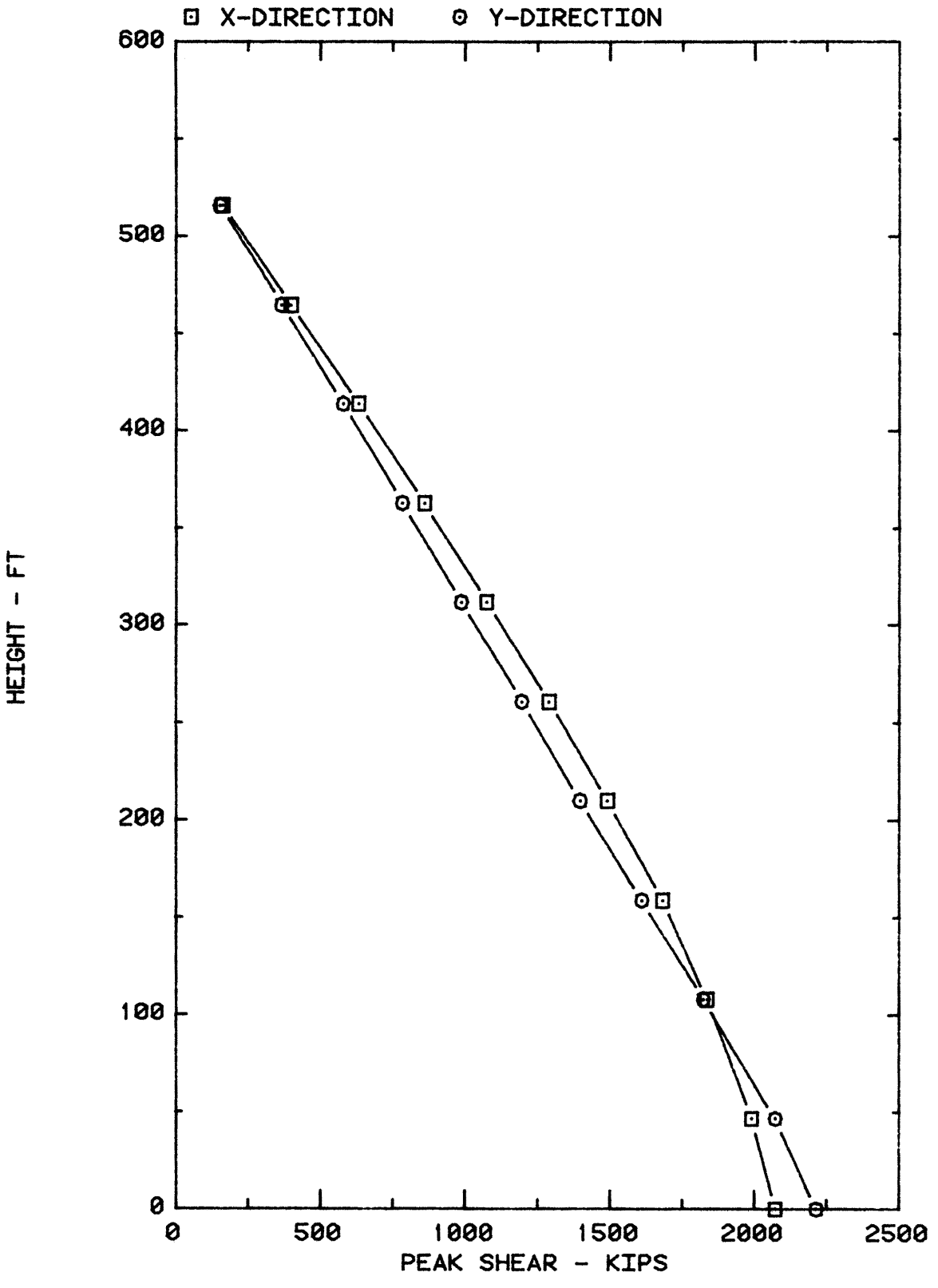


Figure 19d. Equivalent Static Load Diagrams

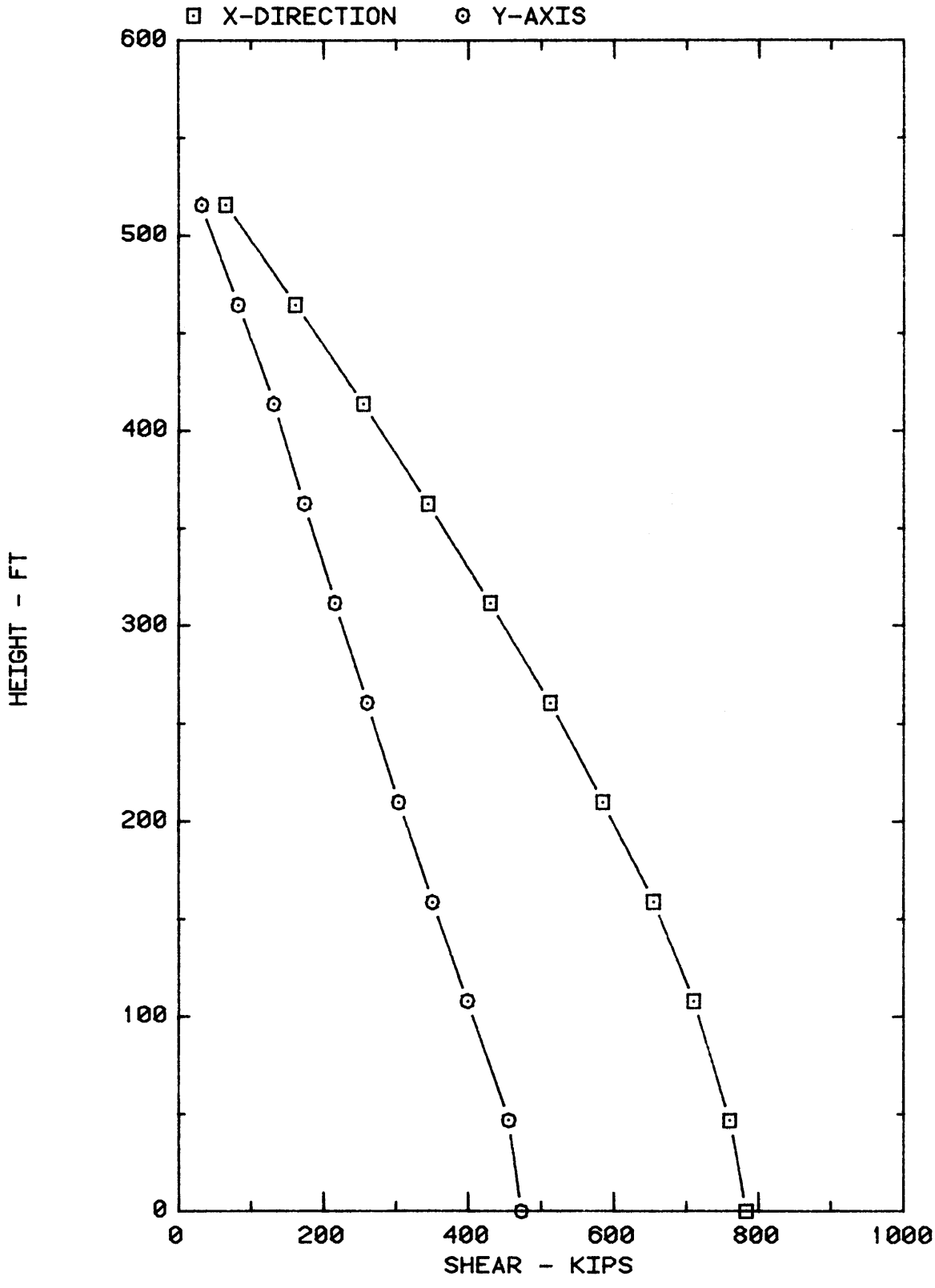


Figure 19e. Equivalent Static Load Diagrams

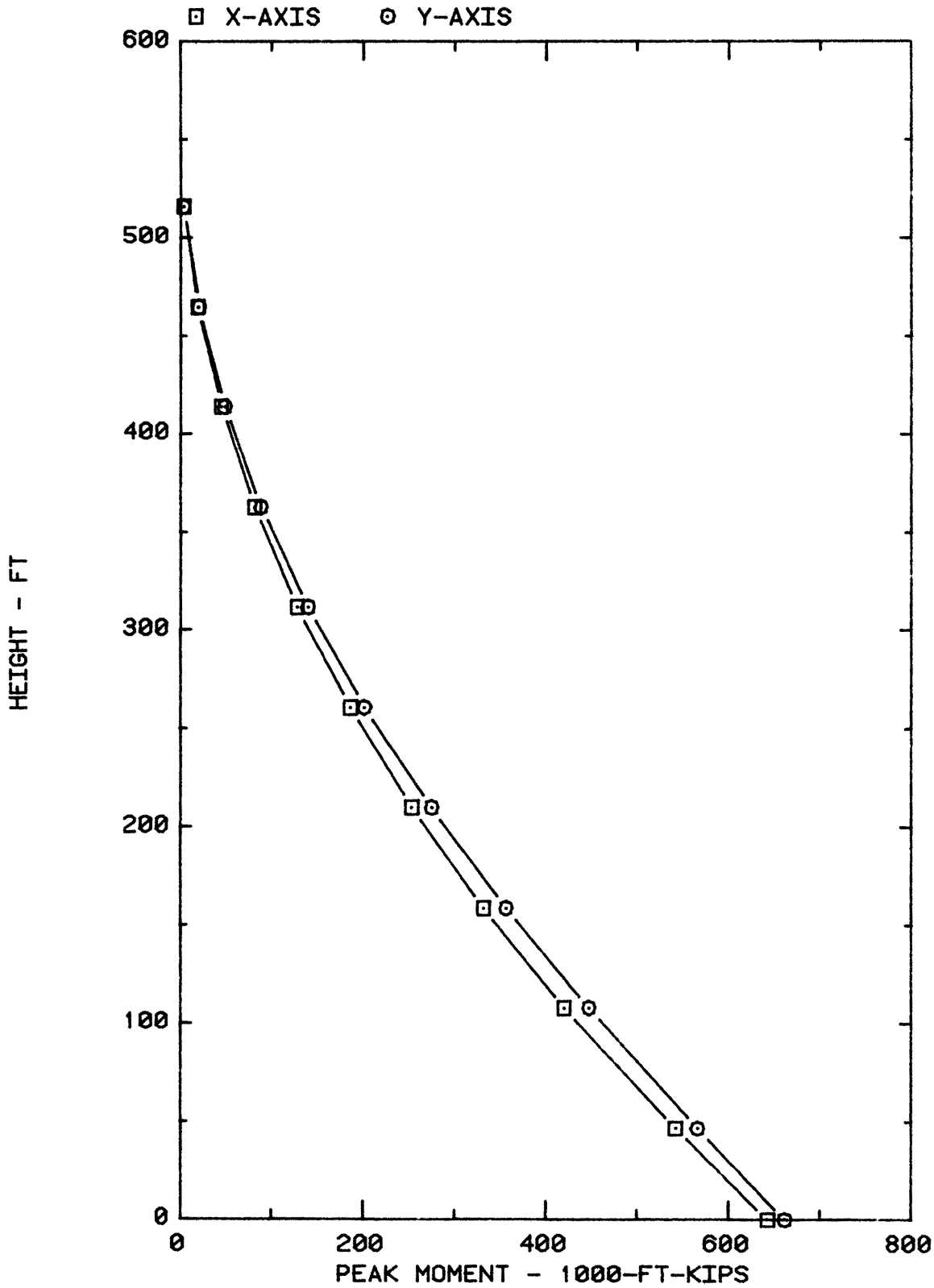


Figure 19f. Equivalent Static Load Diagrams

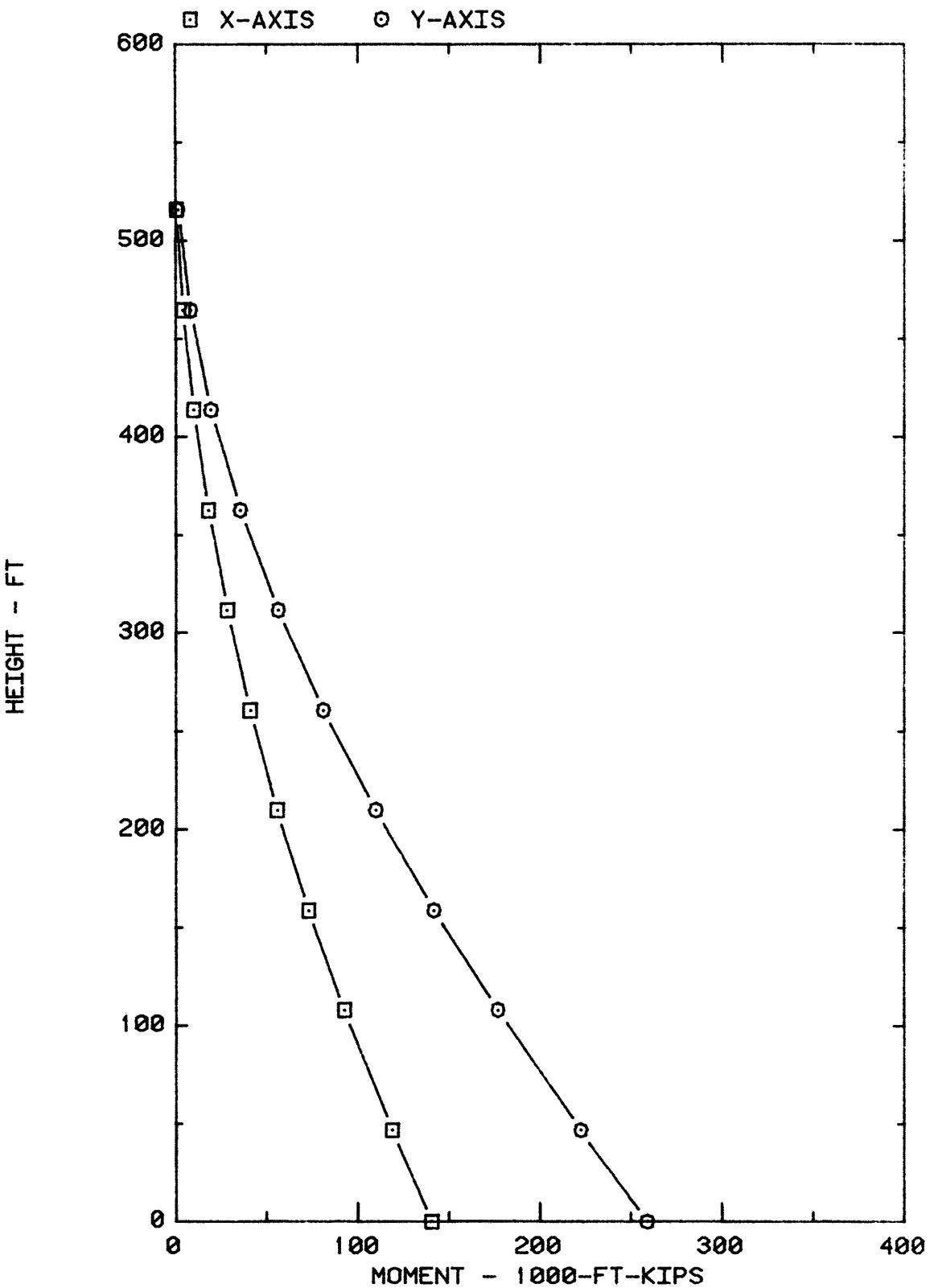


Figure 19g. Equivalent Static Load Diagrams

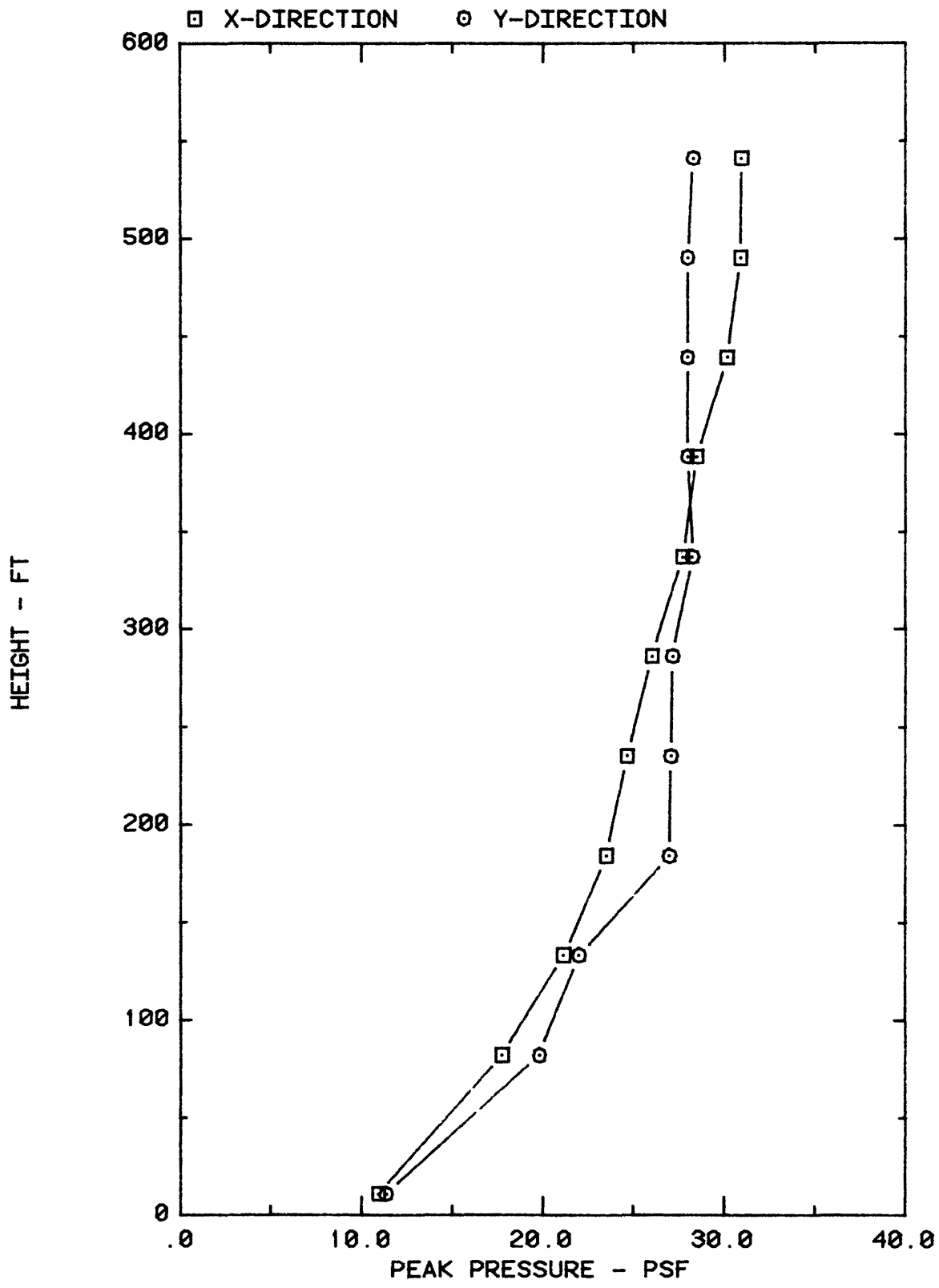


Figure 19h. Equivalent Static Load Diagrams

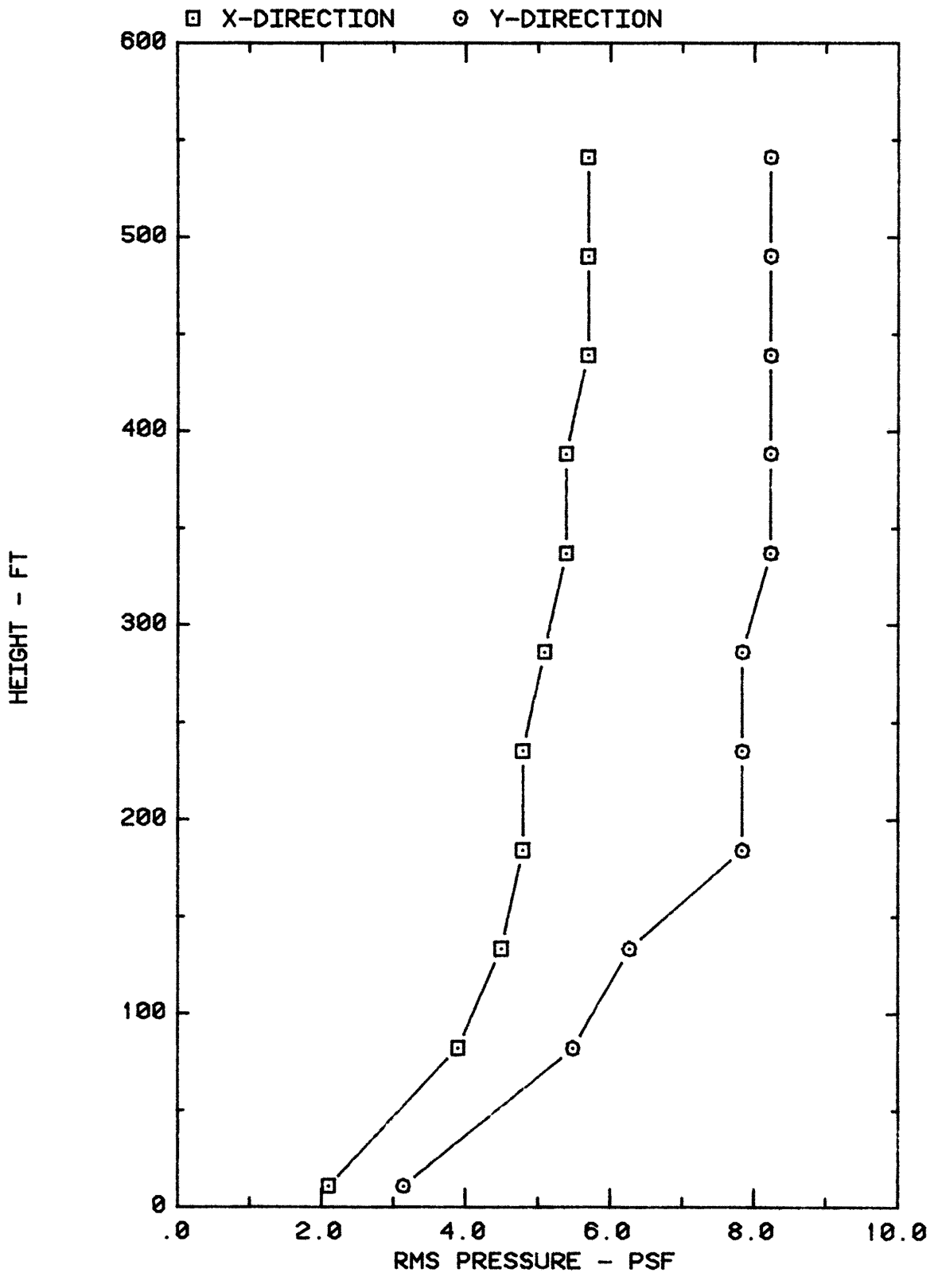


Figure 19i. Equivalent Static Load Diagrams

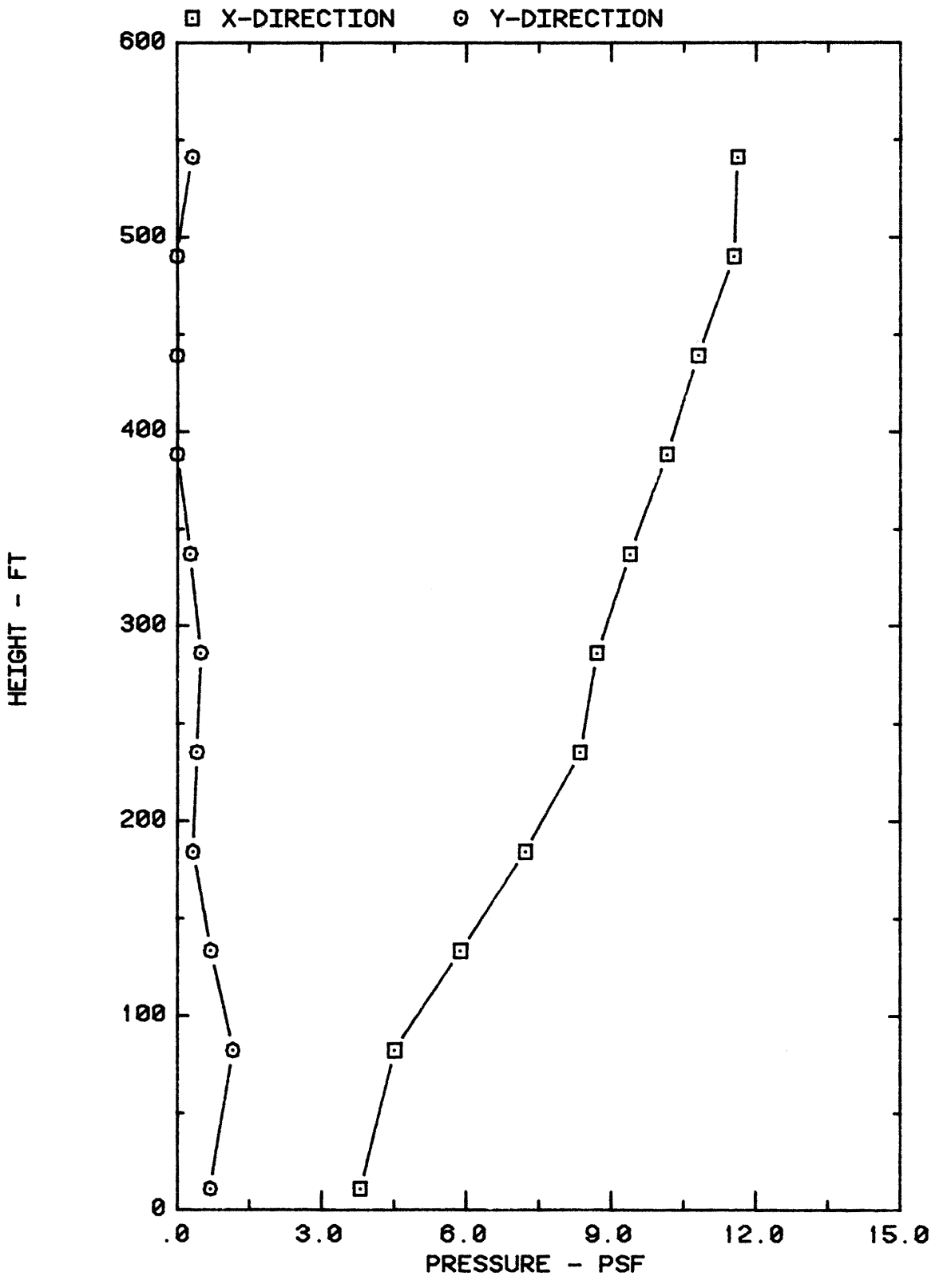


Figure 19j. Equivalent Static Load Diagrams

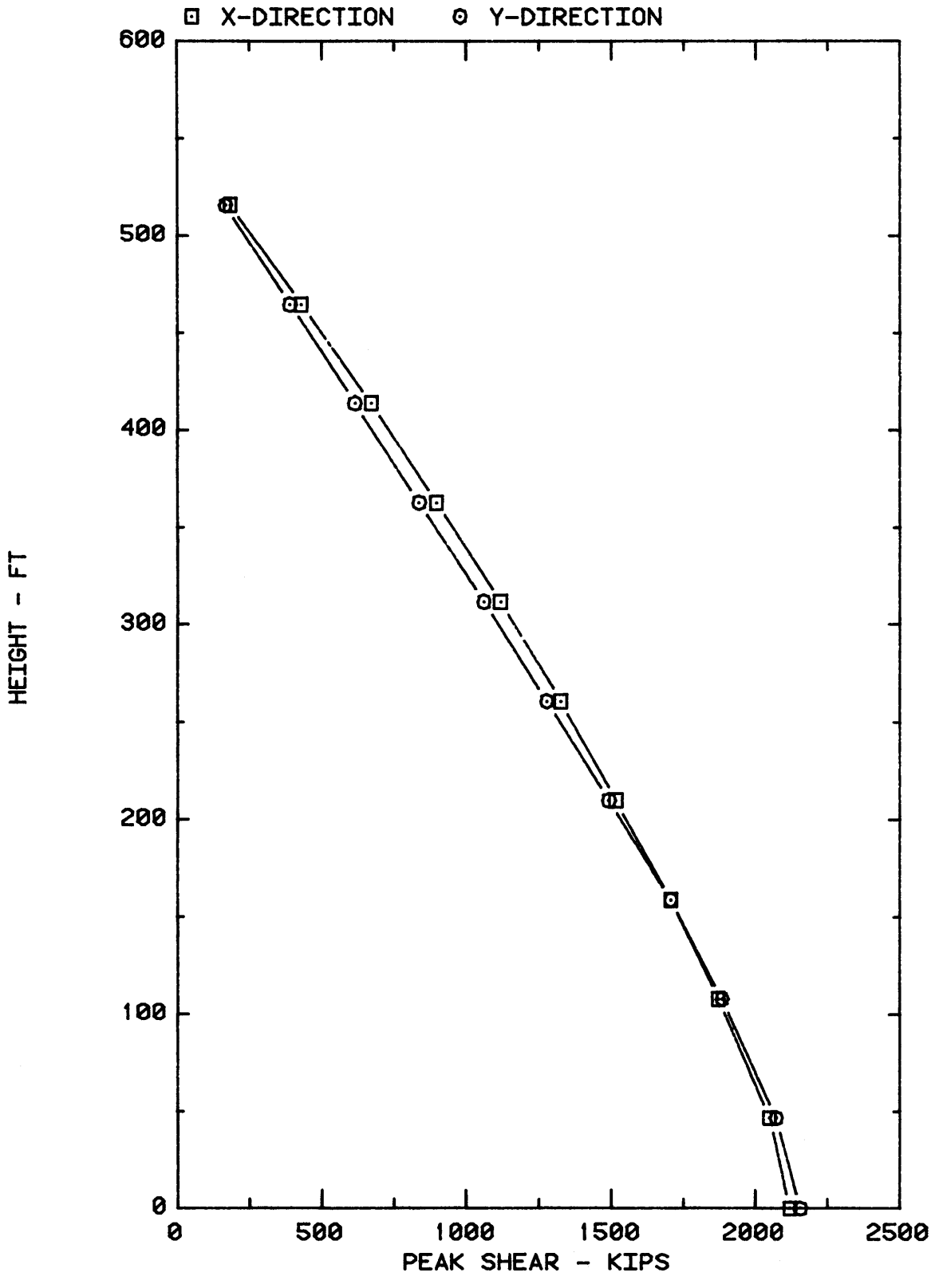


Figure 19k. Equivalent Static Load Diagrams

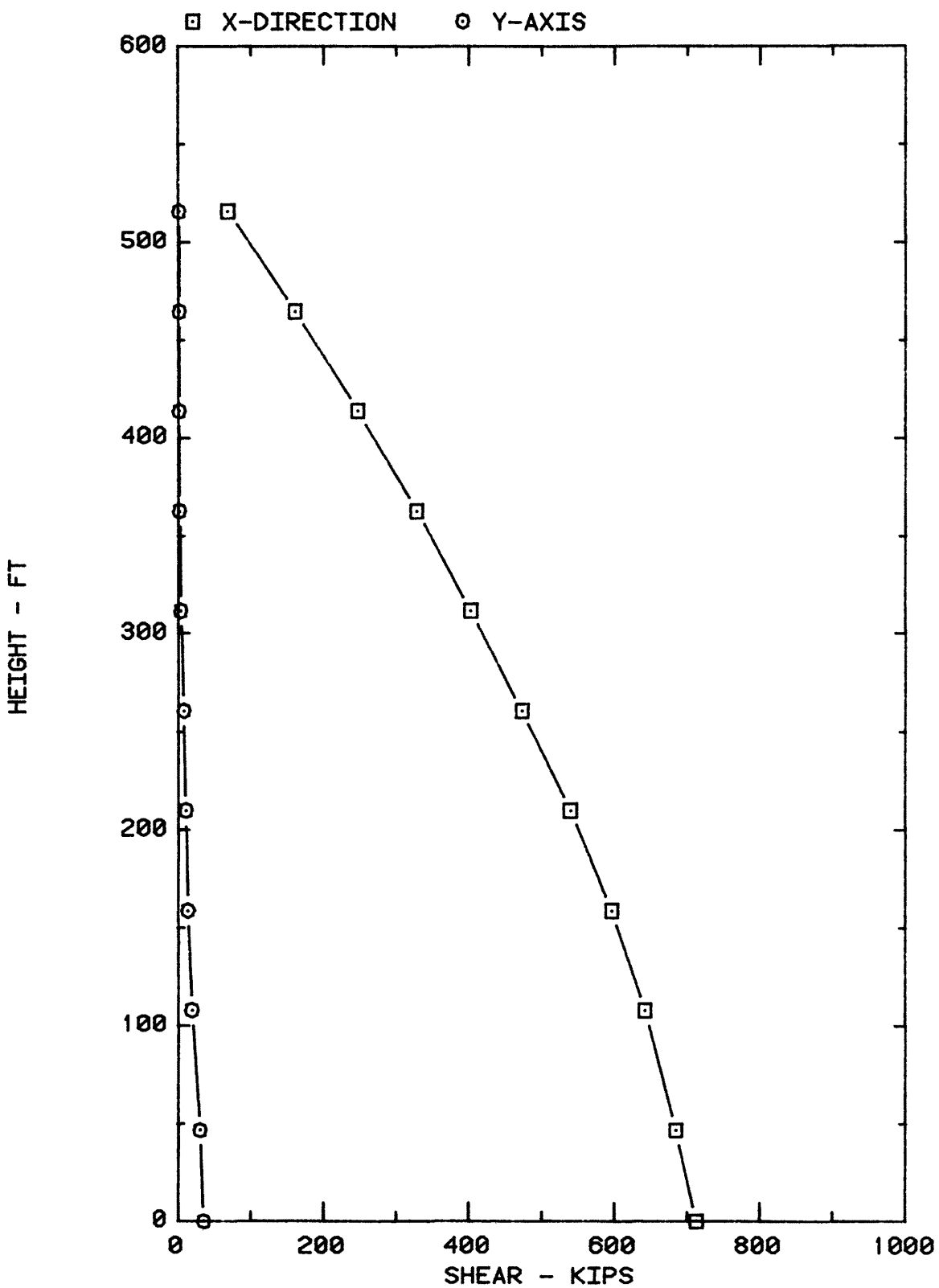


Figure 191. Equivalent Static Load Diagrams

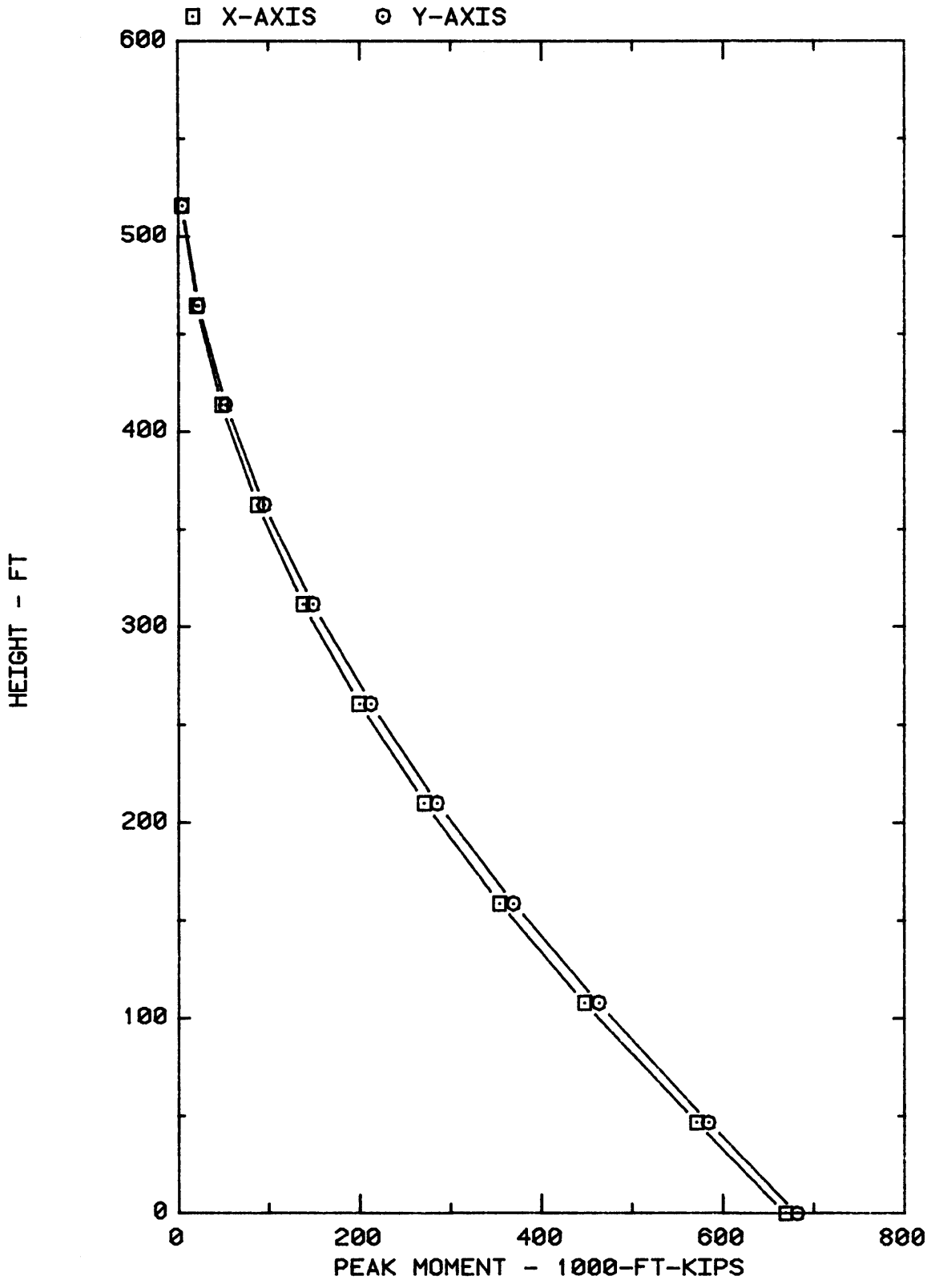


Figure 19m. Equivalent Static Load Diagrams

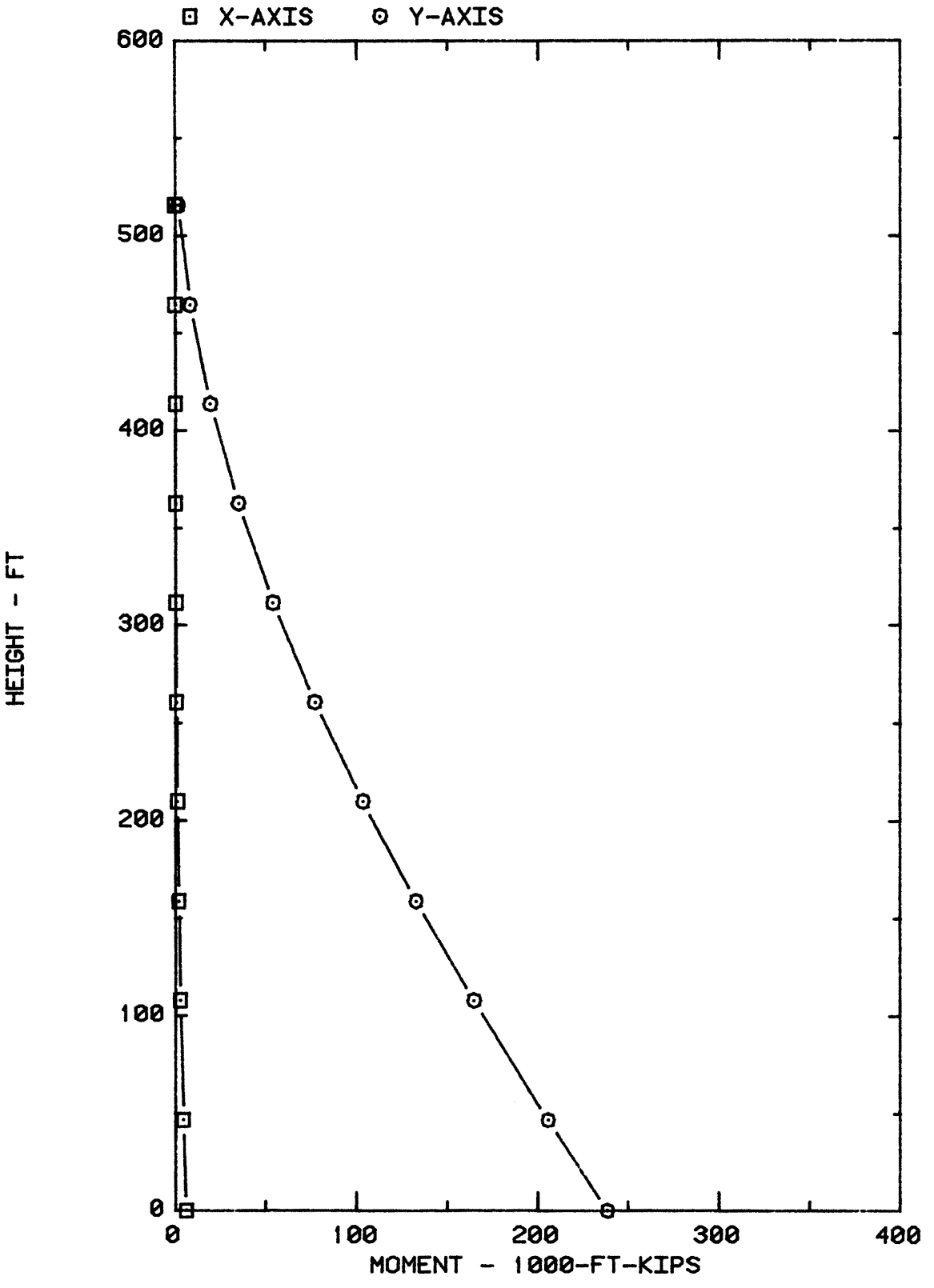


Figure 19n. Equivalent Static Load Diagrams

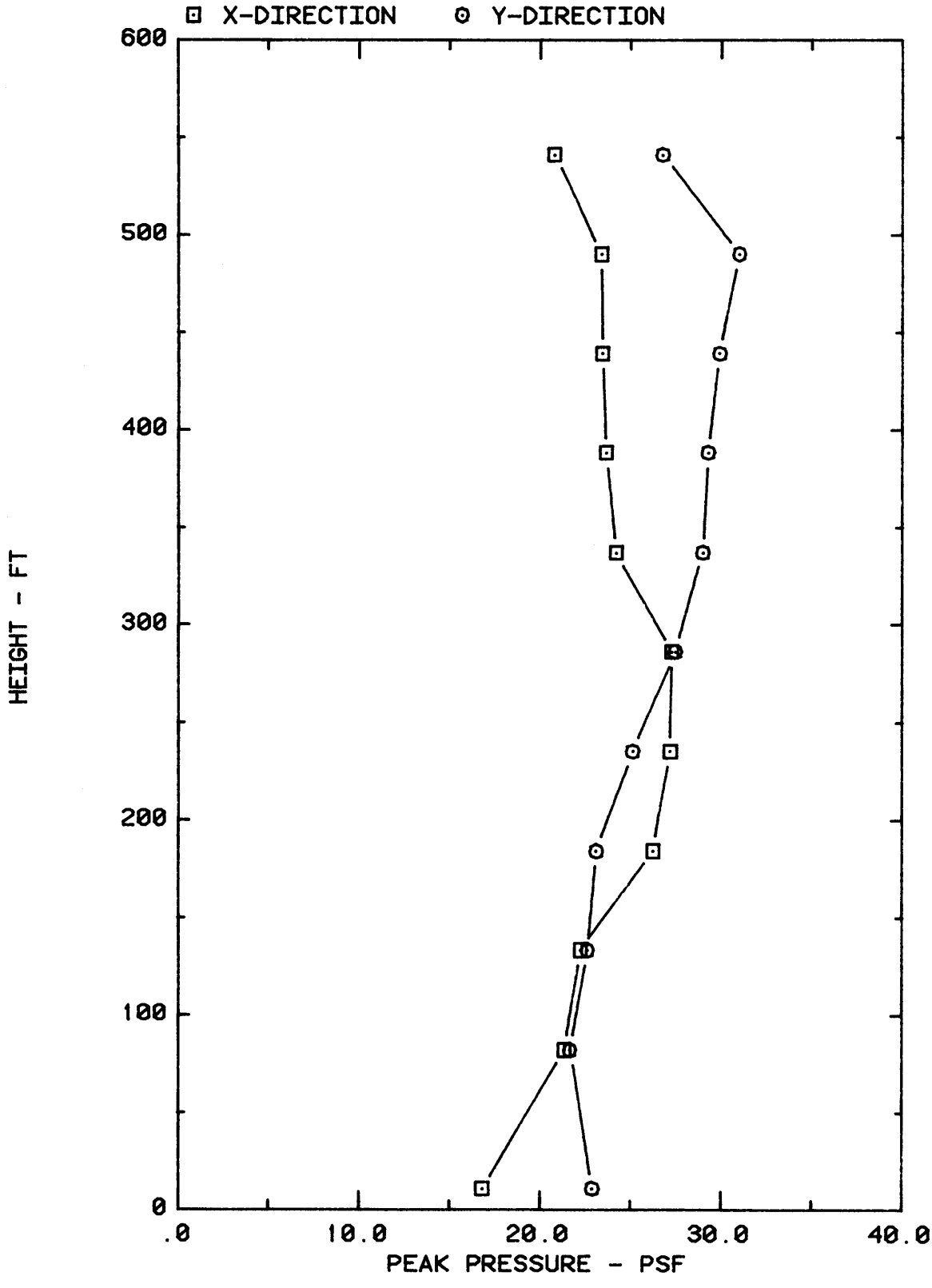


Figure 19o. Equivalent Static Load Diagrams

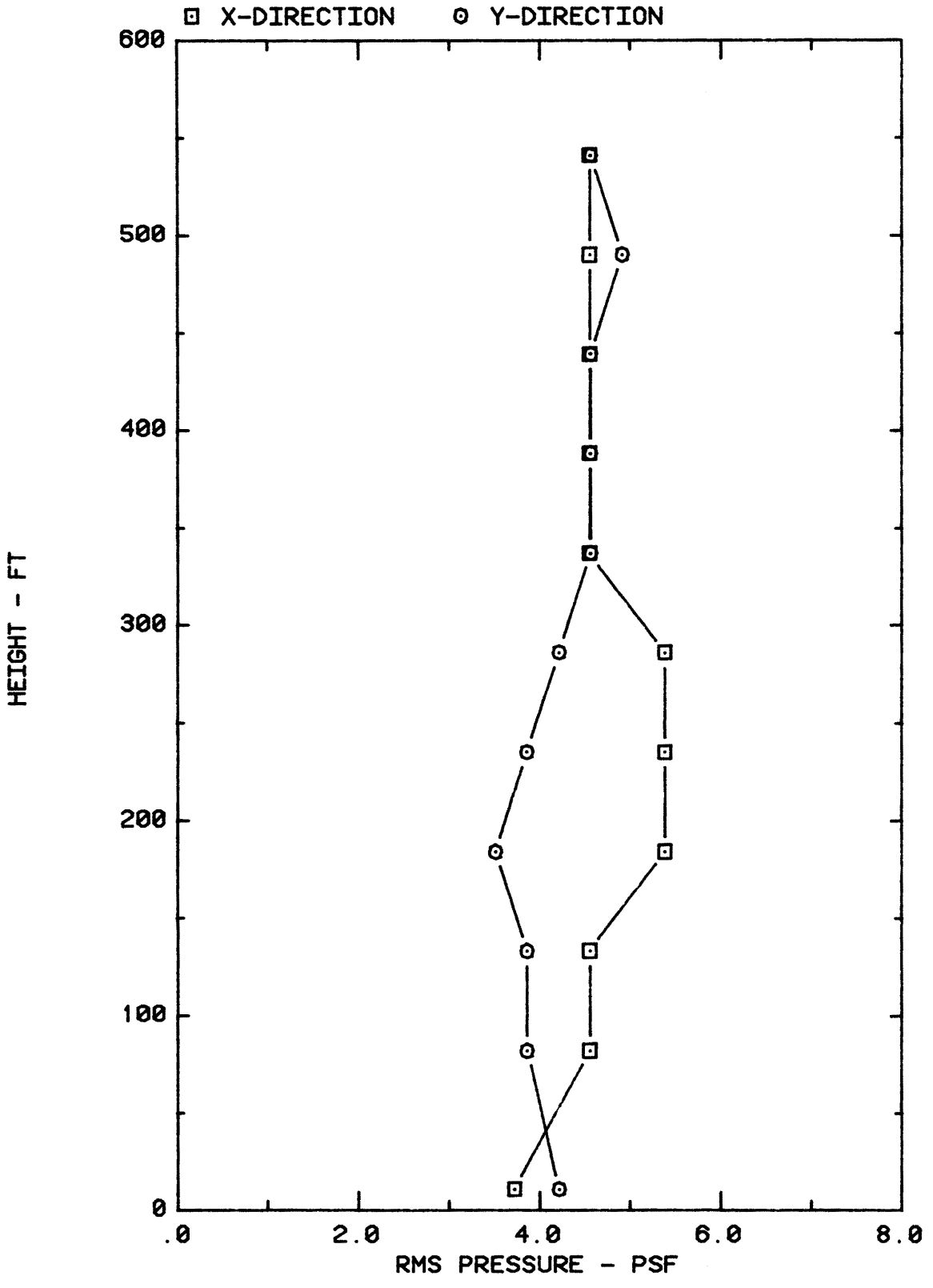


Figure 19p. Equivalent Static Load Diagrams

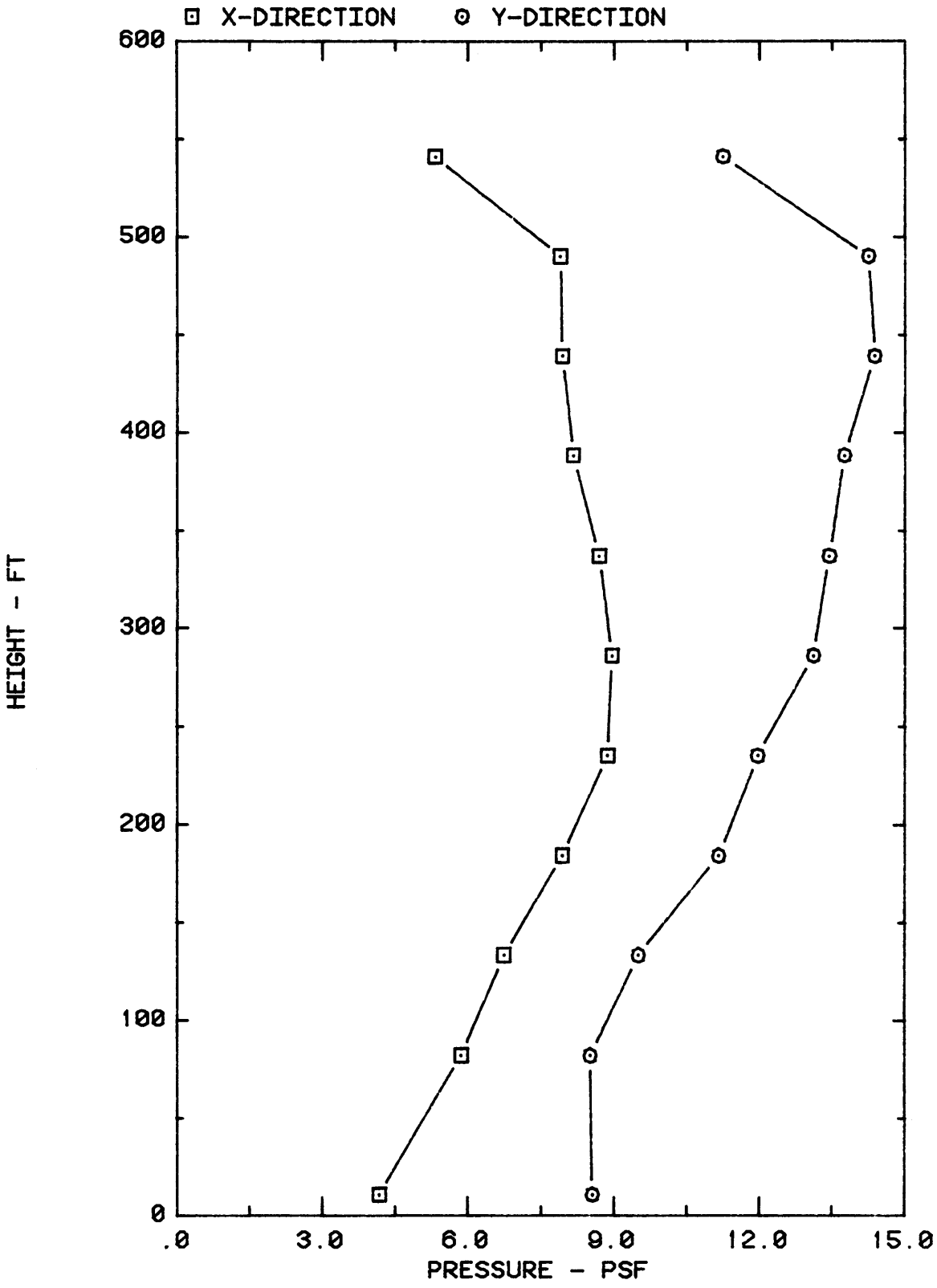


Figure 19q. Equivalent Static Load Diagrams

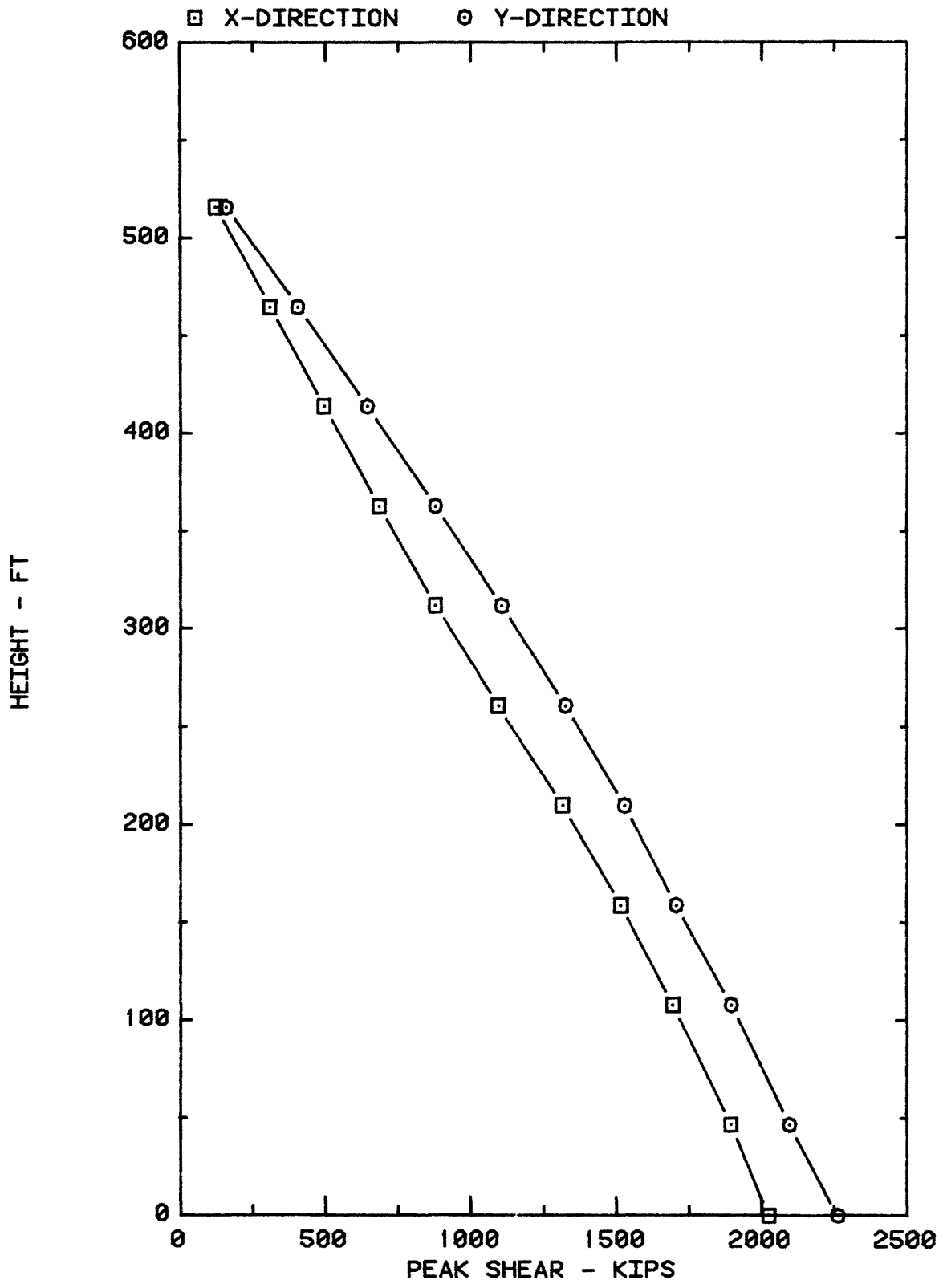


Figure 19r. Equivalent Static Load Diagrams

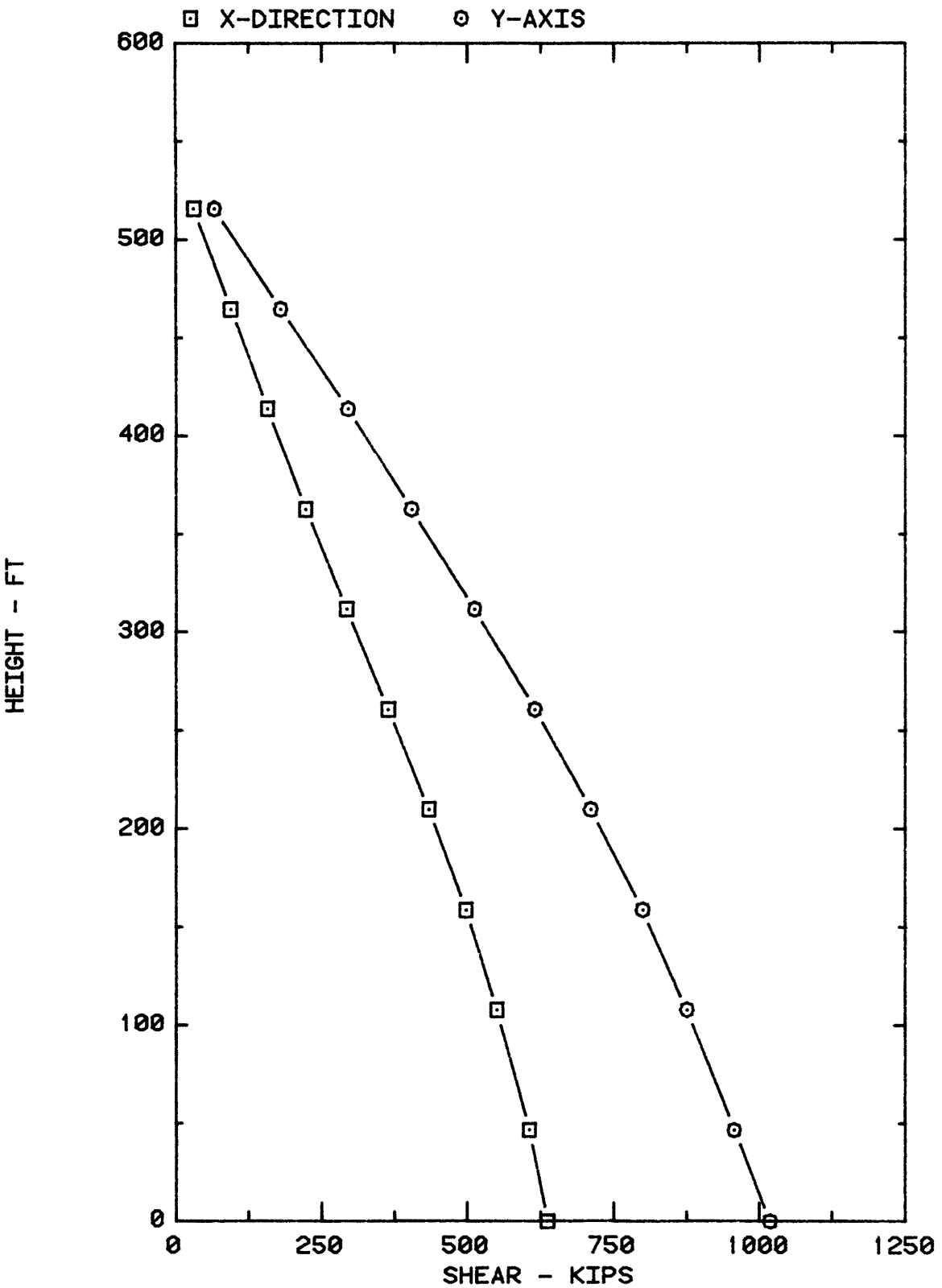


Figure 19s. Equivalent Static Load Diagrams

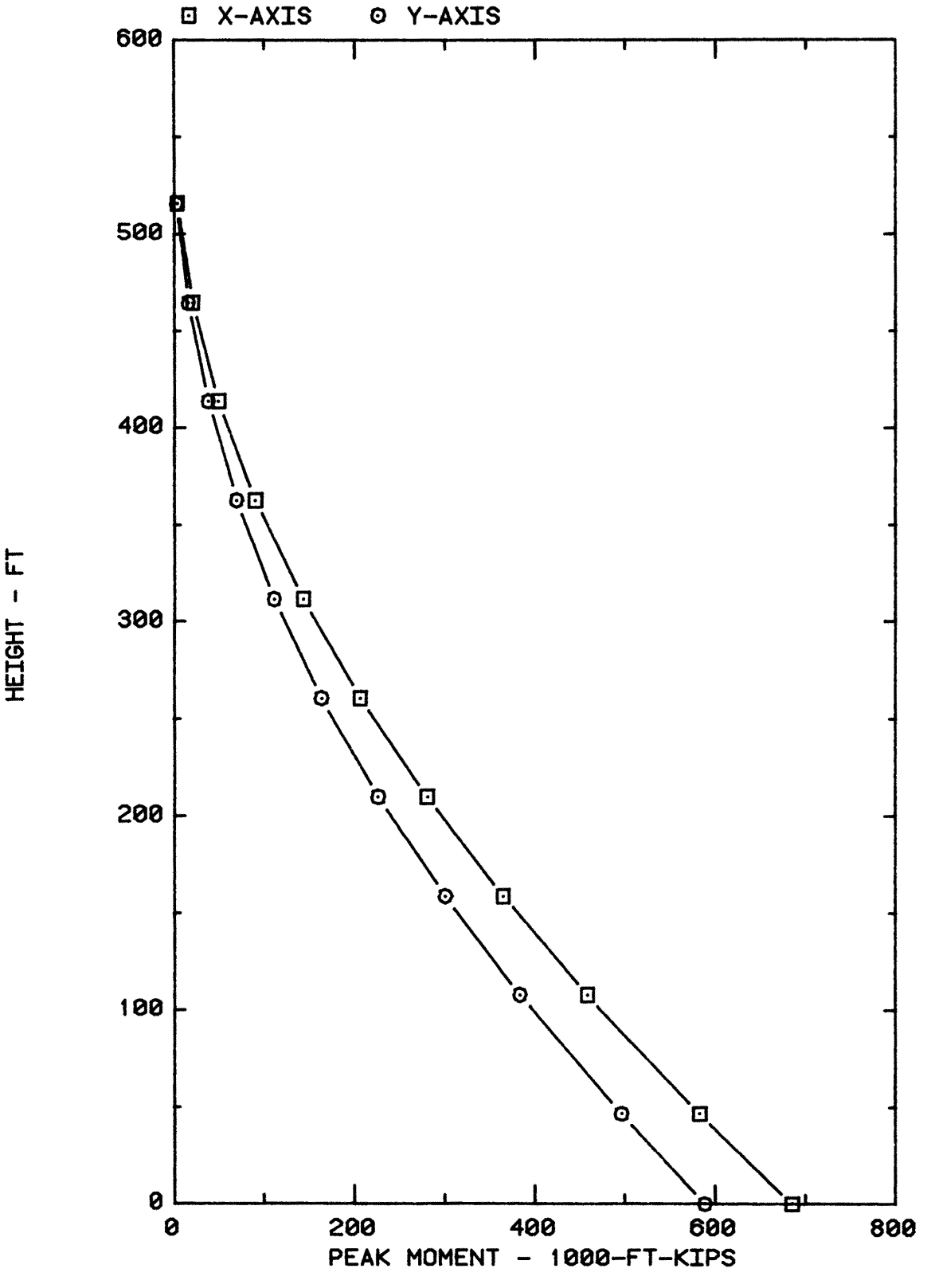


Figure 19t. Equivalent Static Load Diagrams

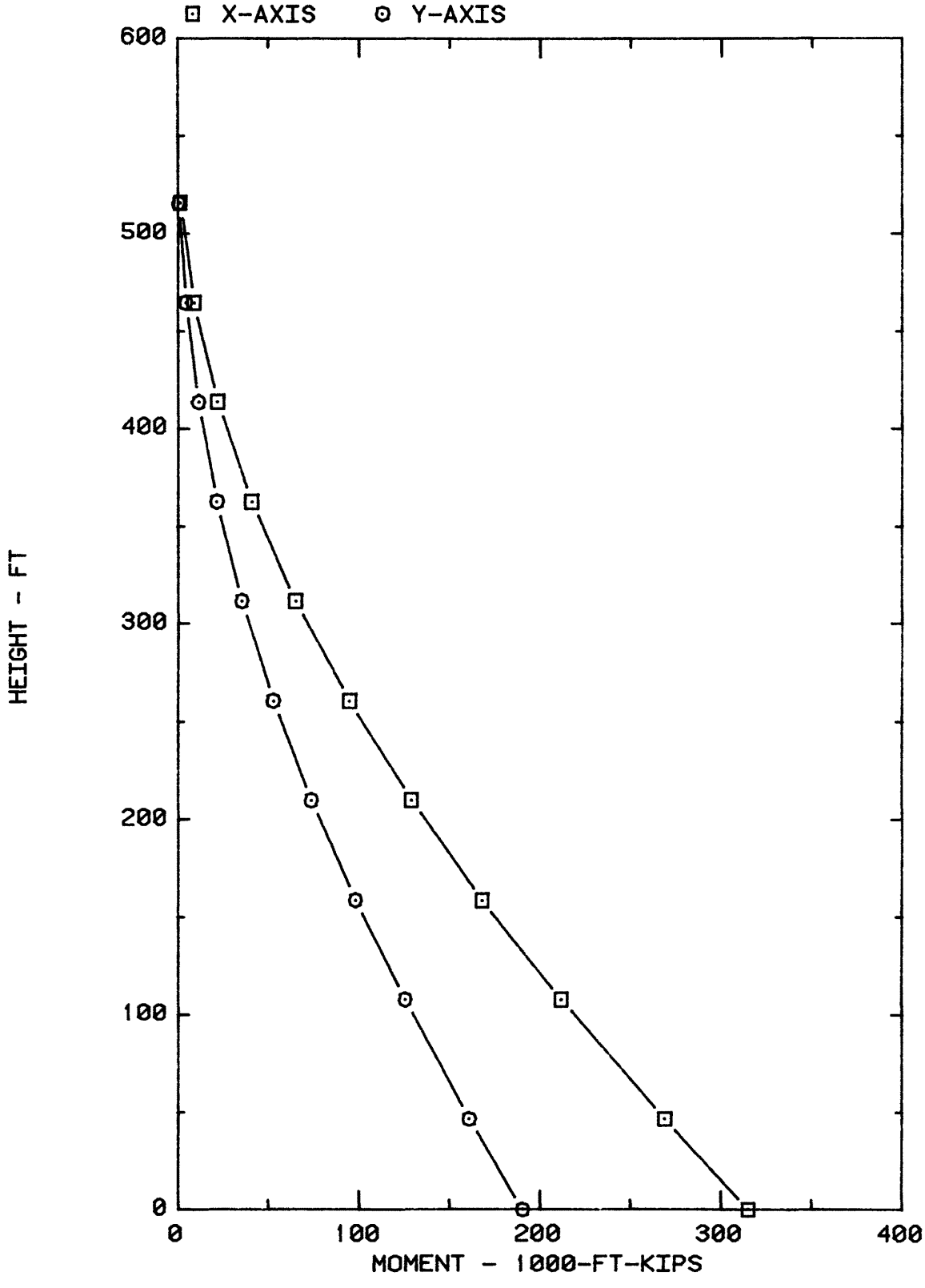


Figure 19u. Equivalent Static Load Diagrams

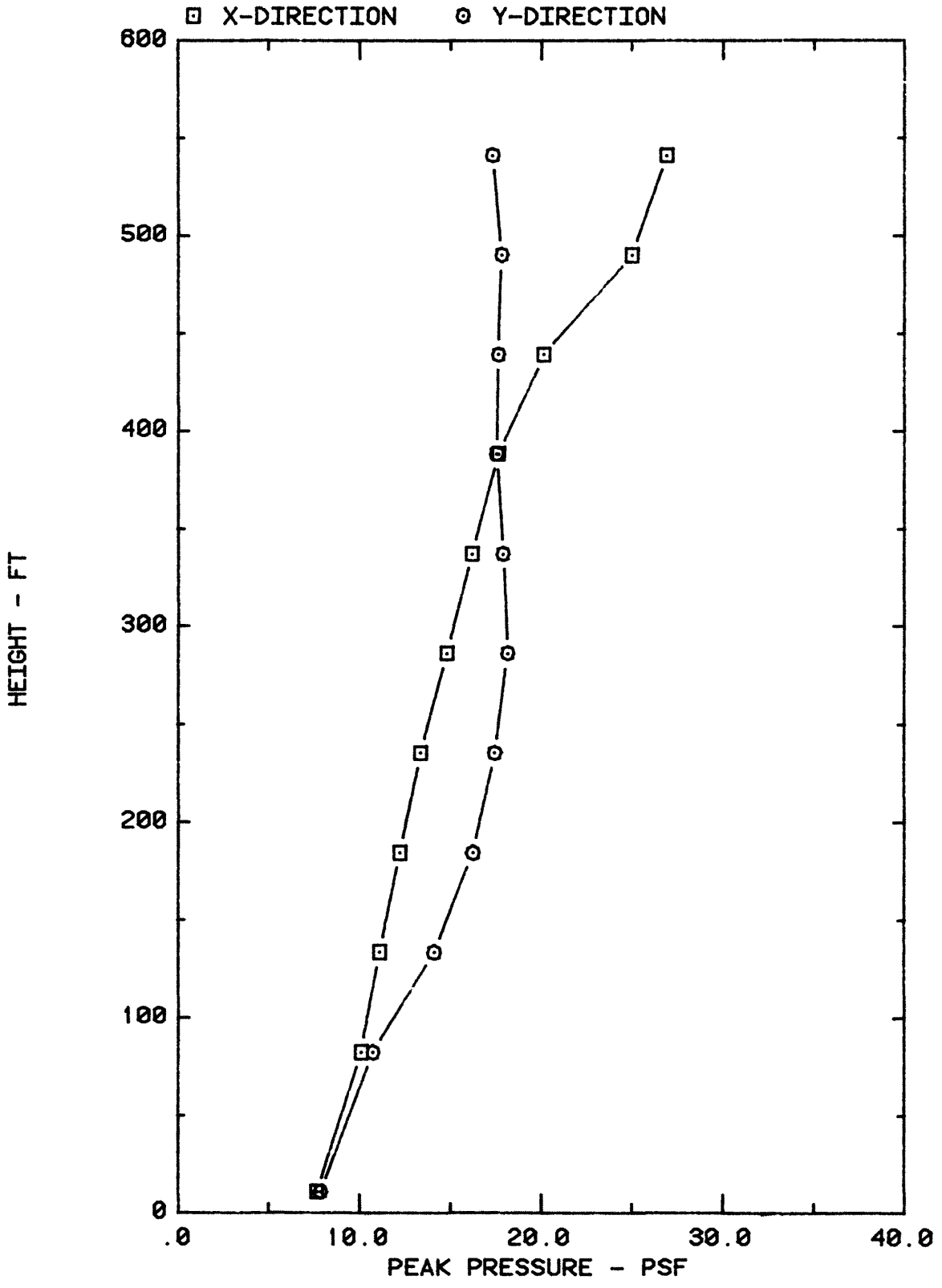


Figure 19v. Equivalent Static Load Diagrams

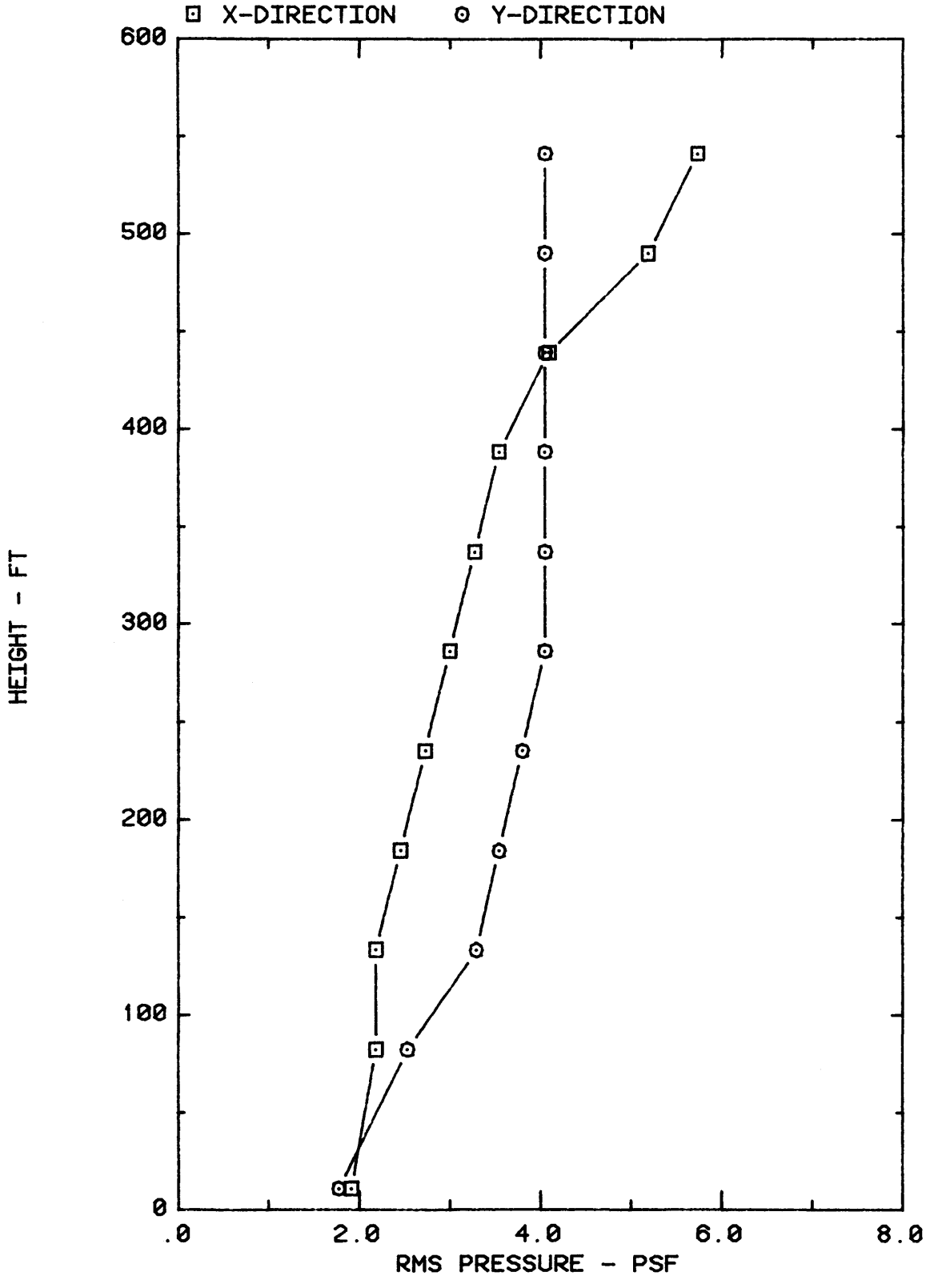


Figure 19w. Equivalent Static Load Diagrams

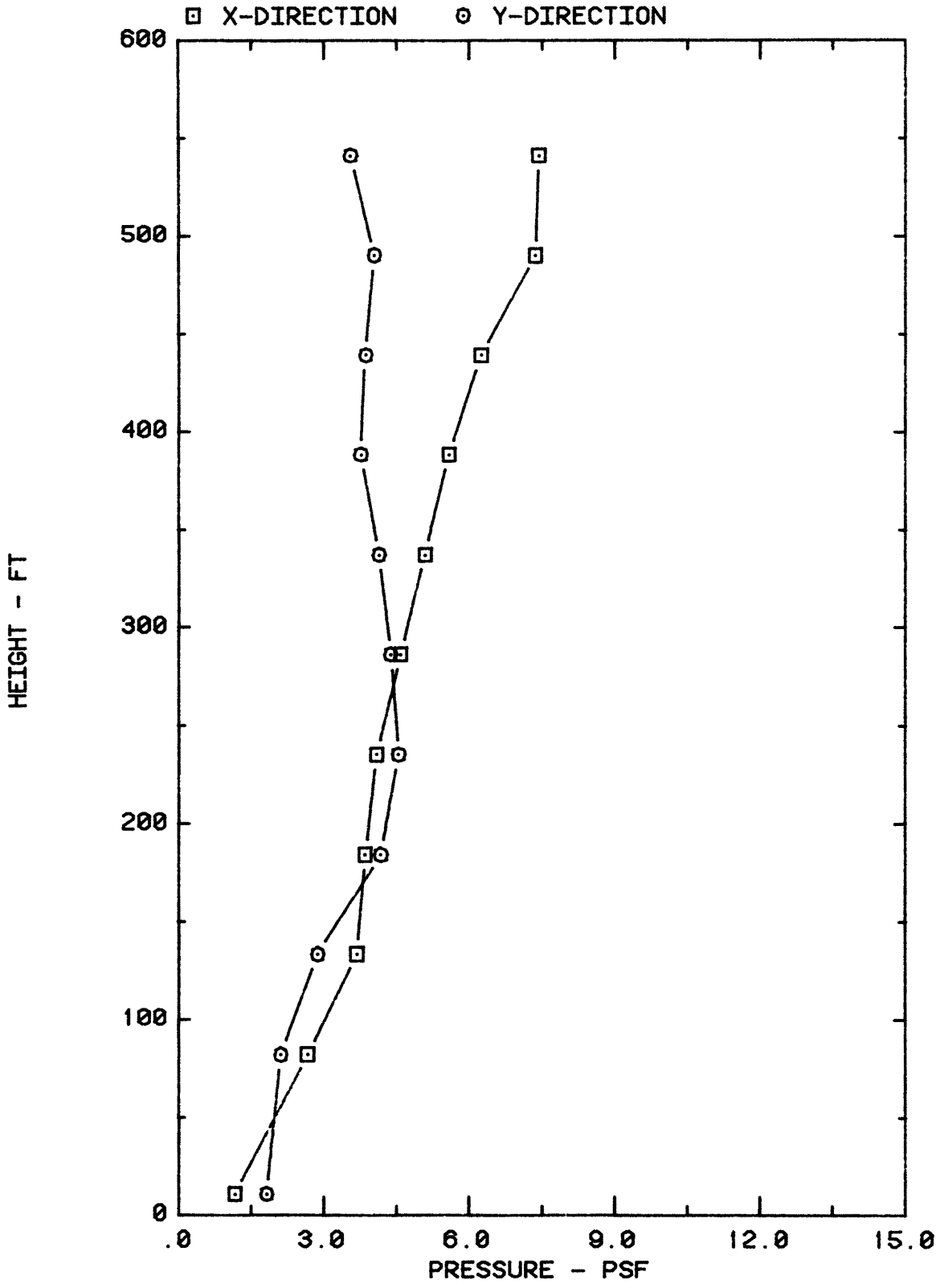


Figure 19x. Equivalent Static Load Diagrams

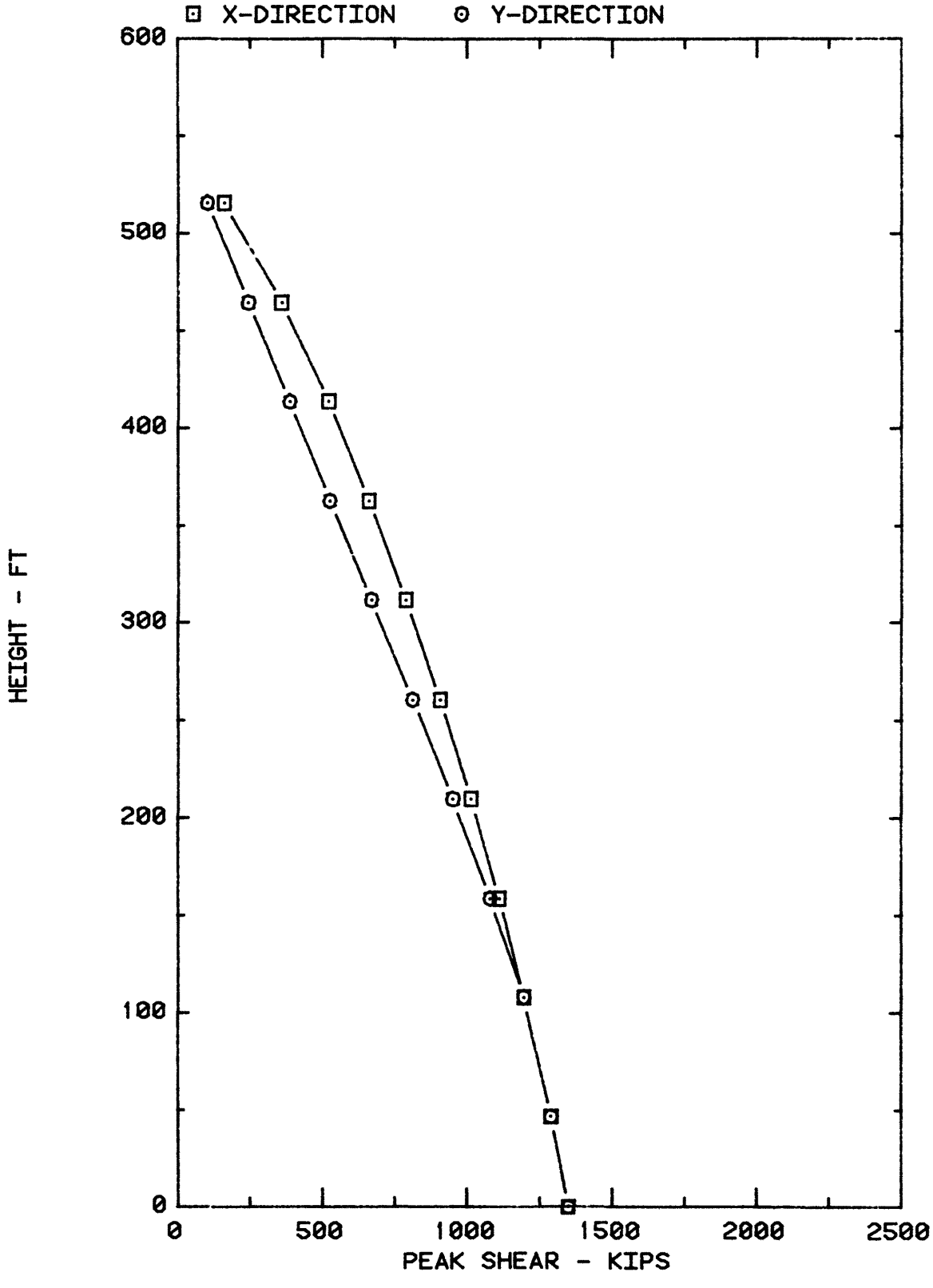


Figure 19y. Equivalent Static Load Diagrams

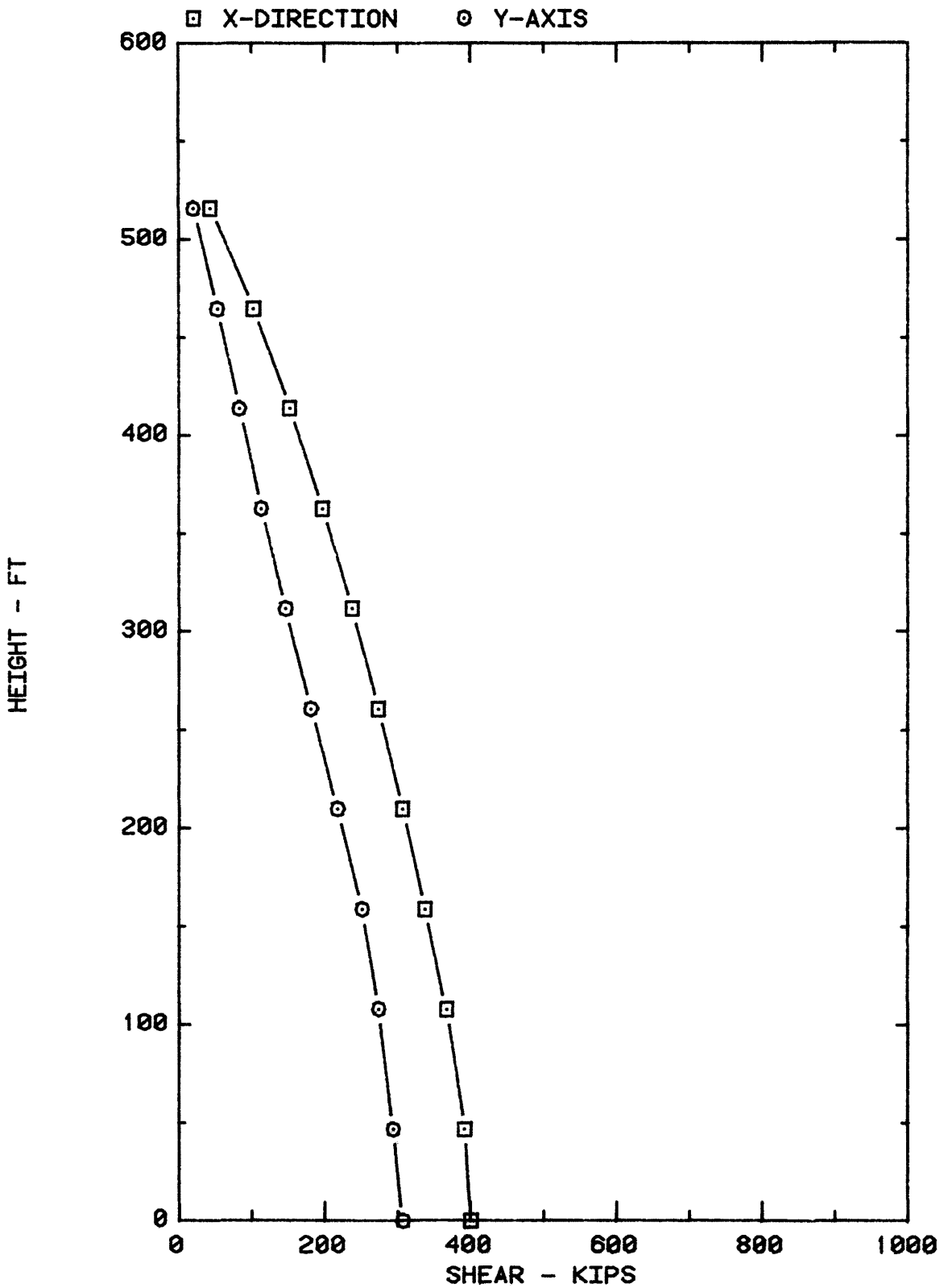


Figure 19z. Equivalent Static Load Diagrams

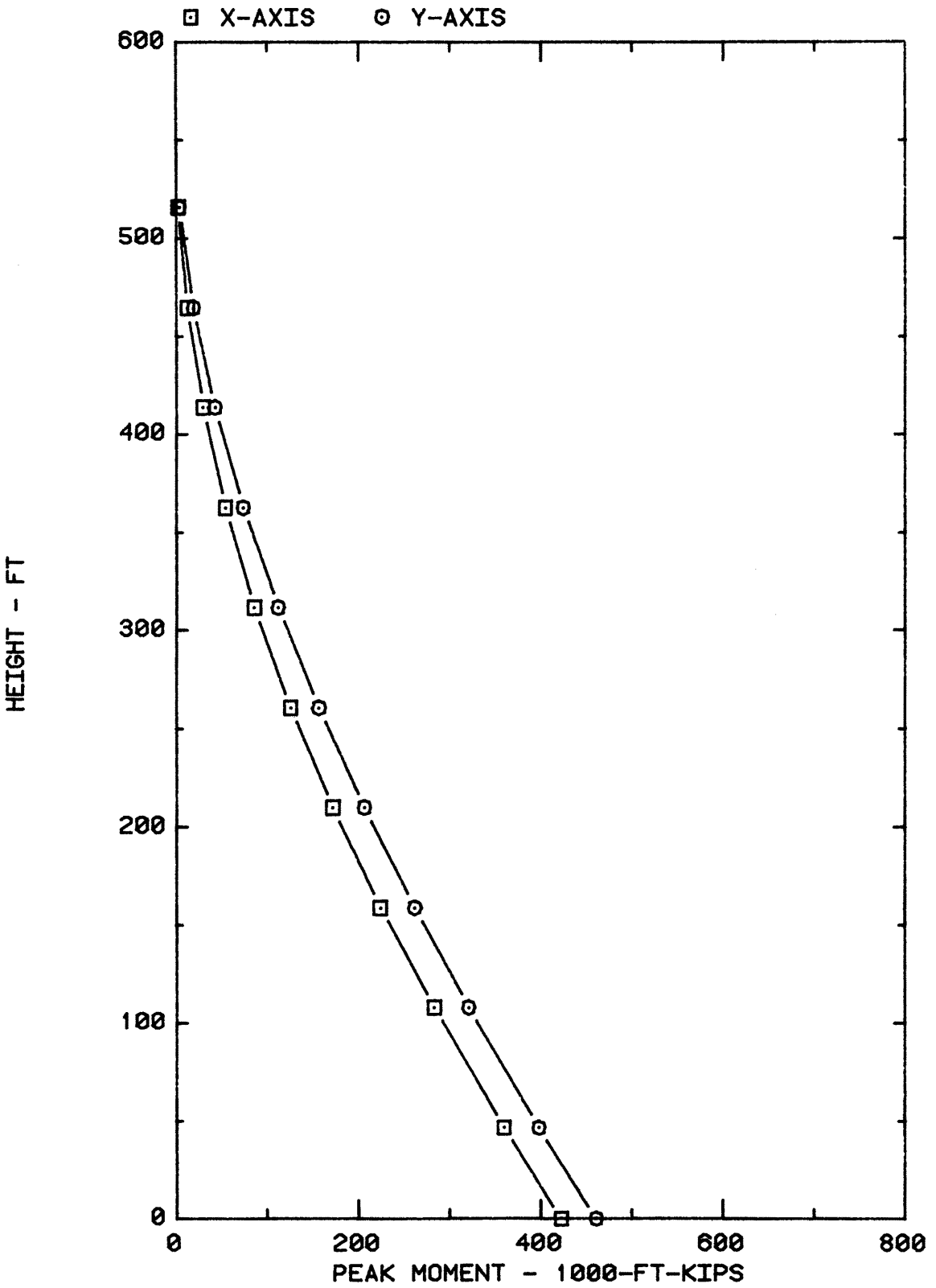


Figure 19aa. Equivalent Static Load Diagrams

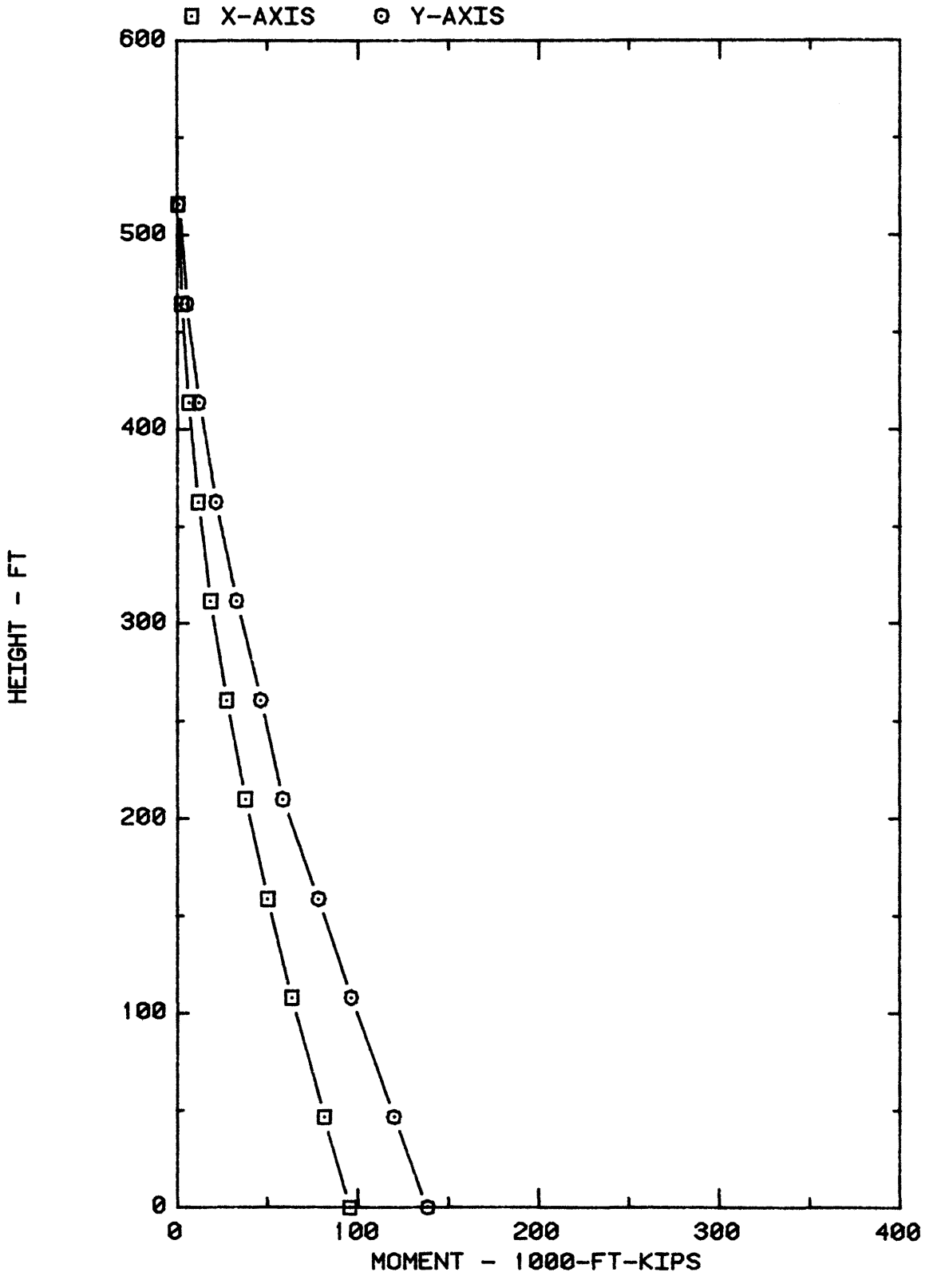


Figure 19bb. Equivalent Static Load Diagrams

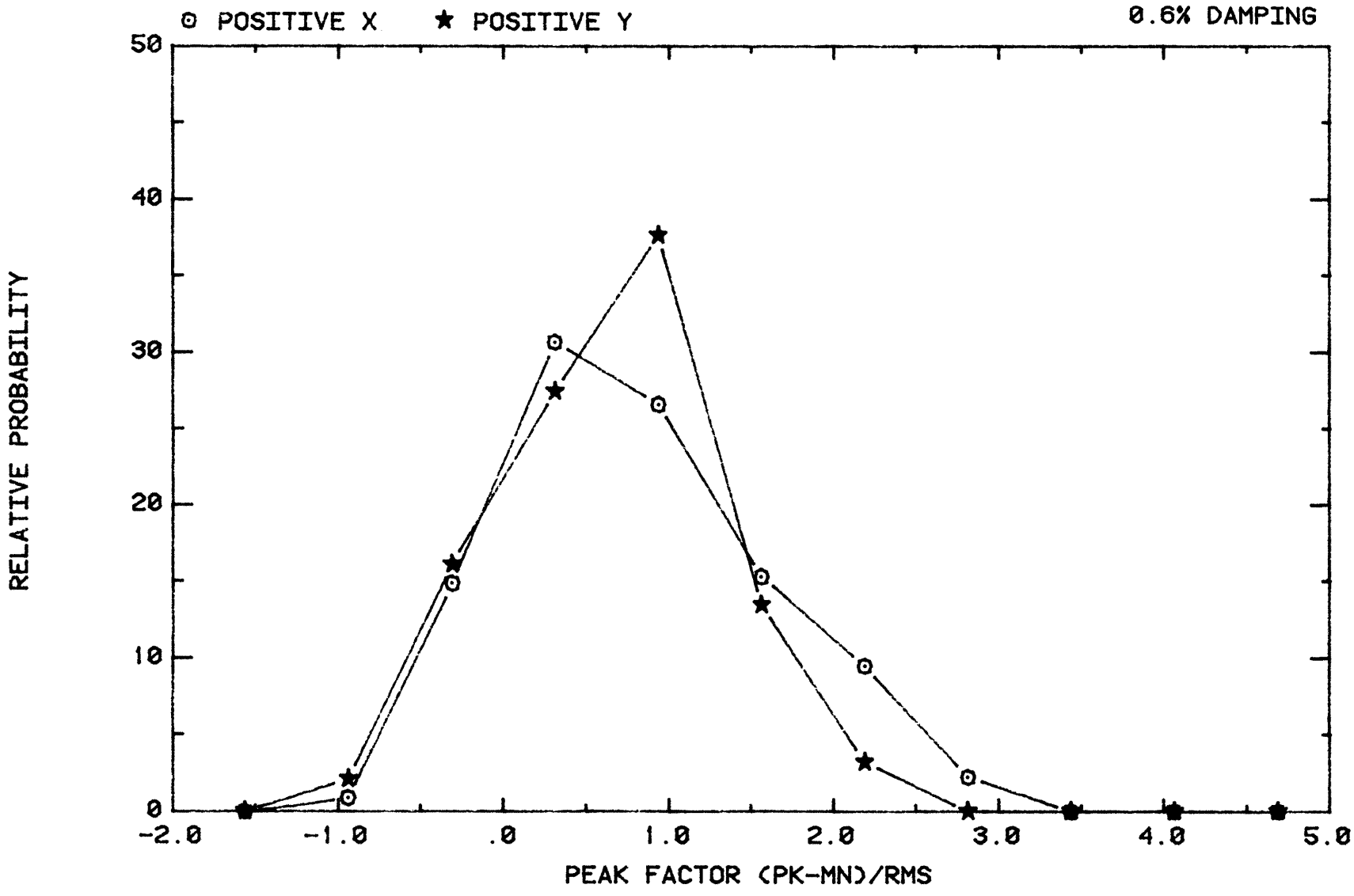


Figure 20a. Probability Distributions of Peak Moments

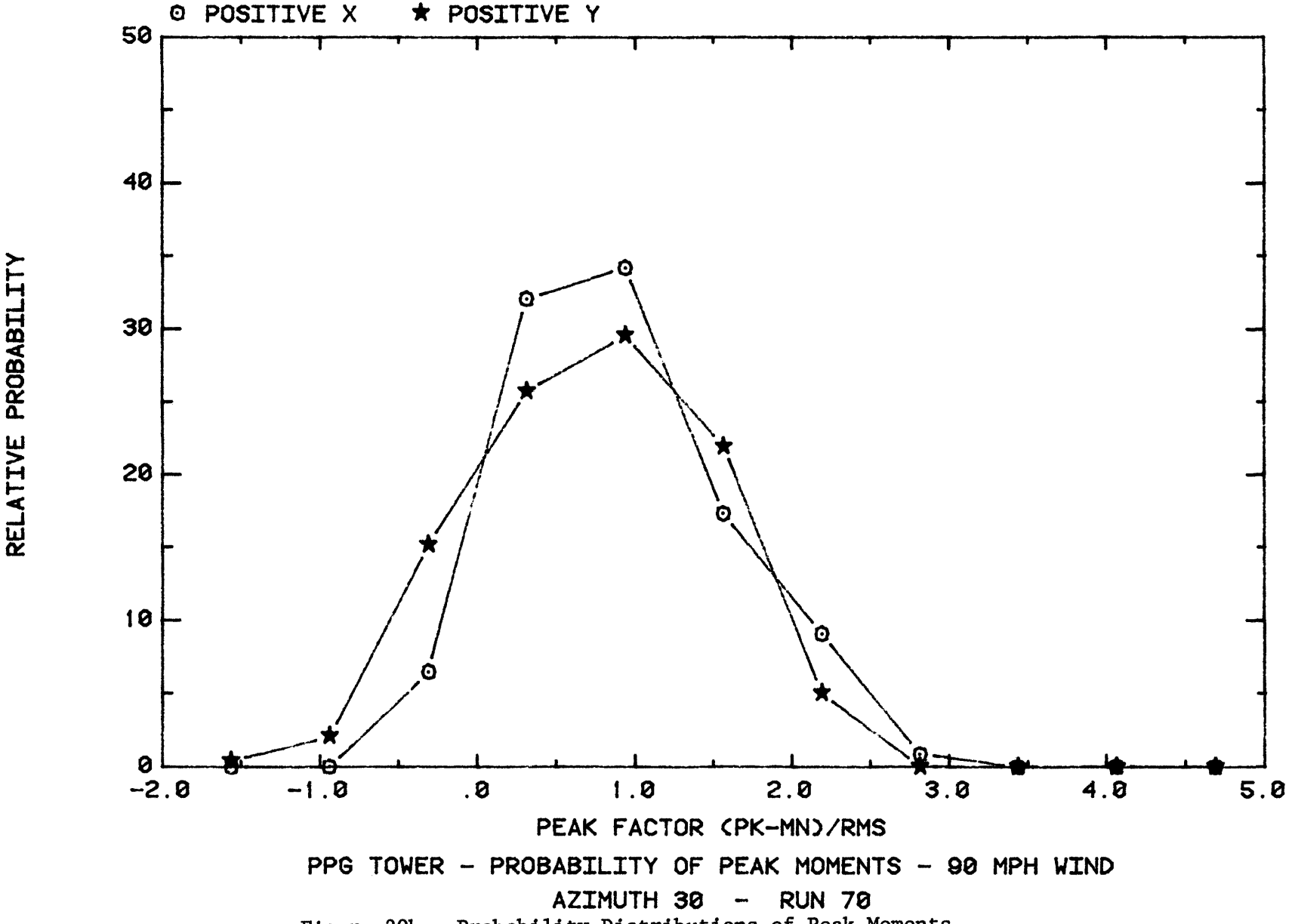


Figure 20b. Probability Distributions of Peak Moments

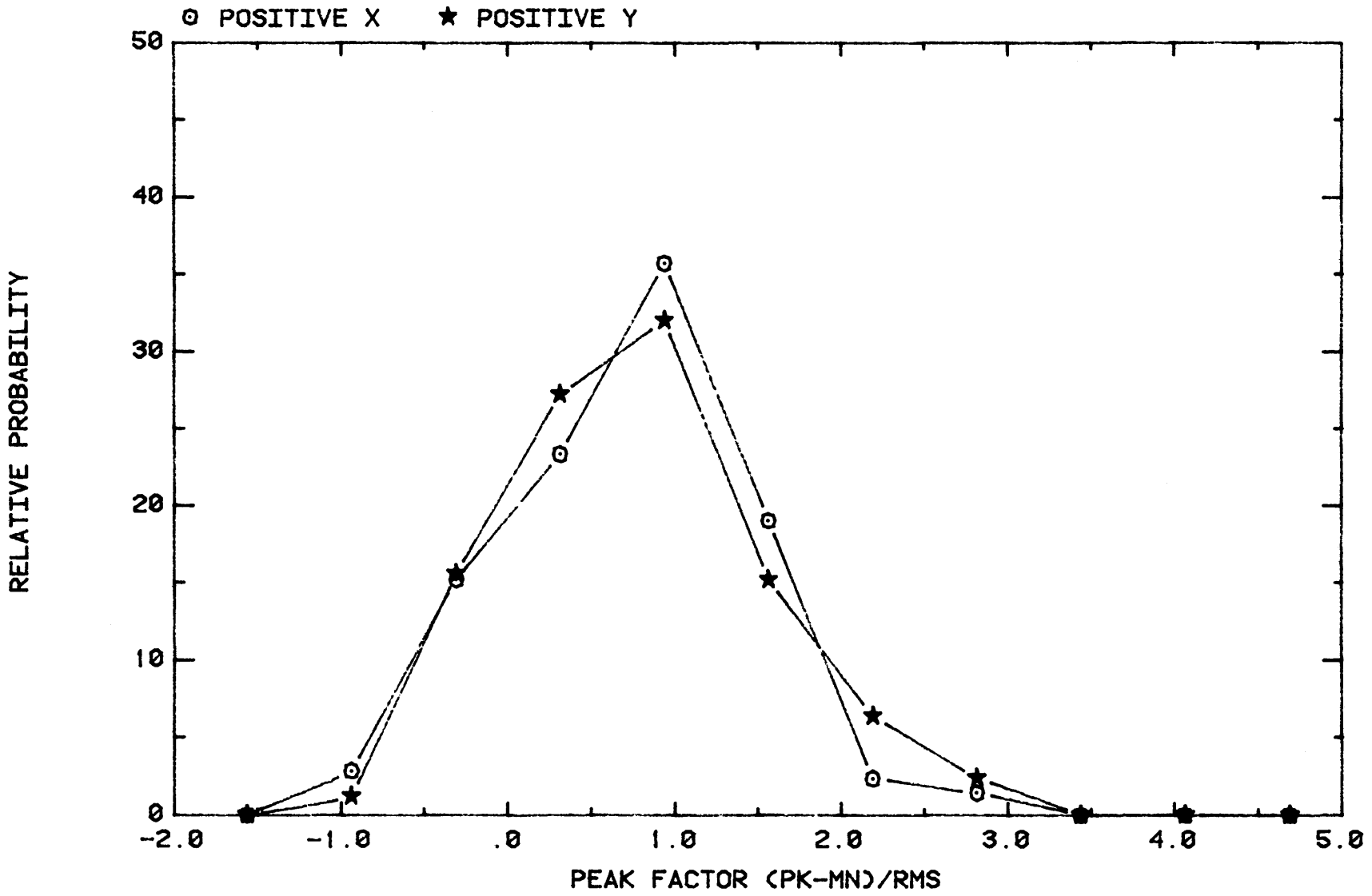


Figure 20c. Probability Distributions of Peak Moments

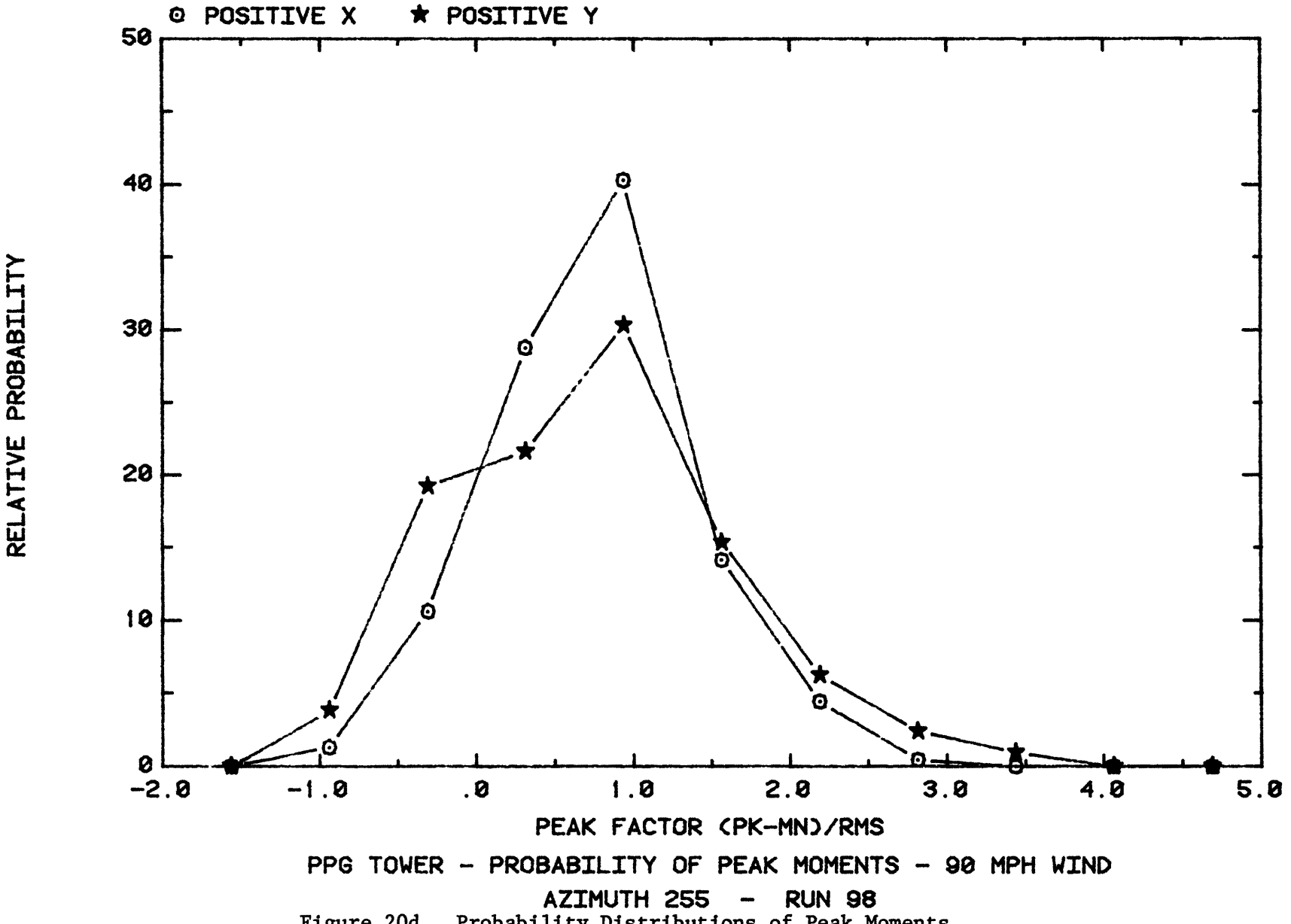


Figure 20d. Probability Distributions of Peak Moments

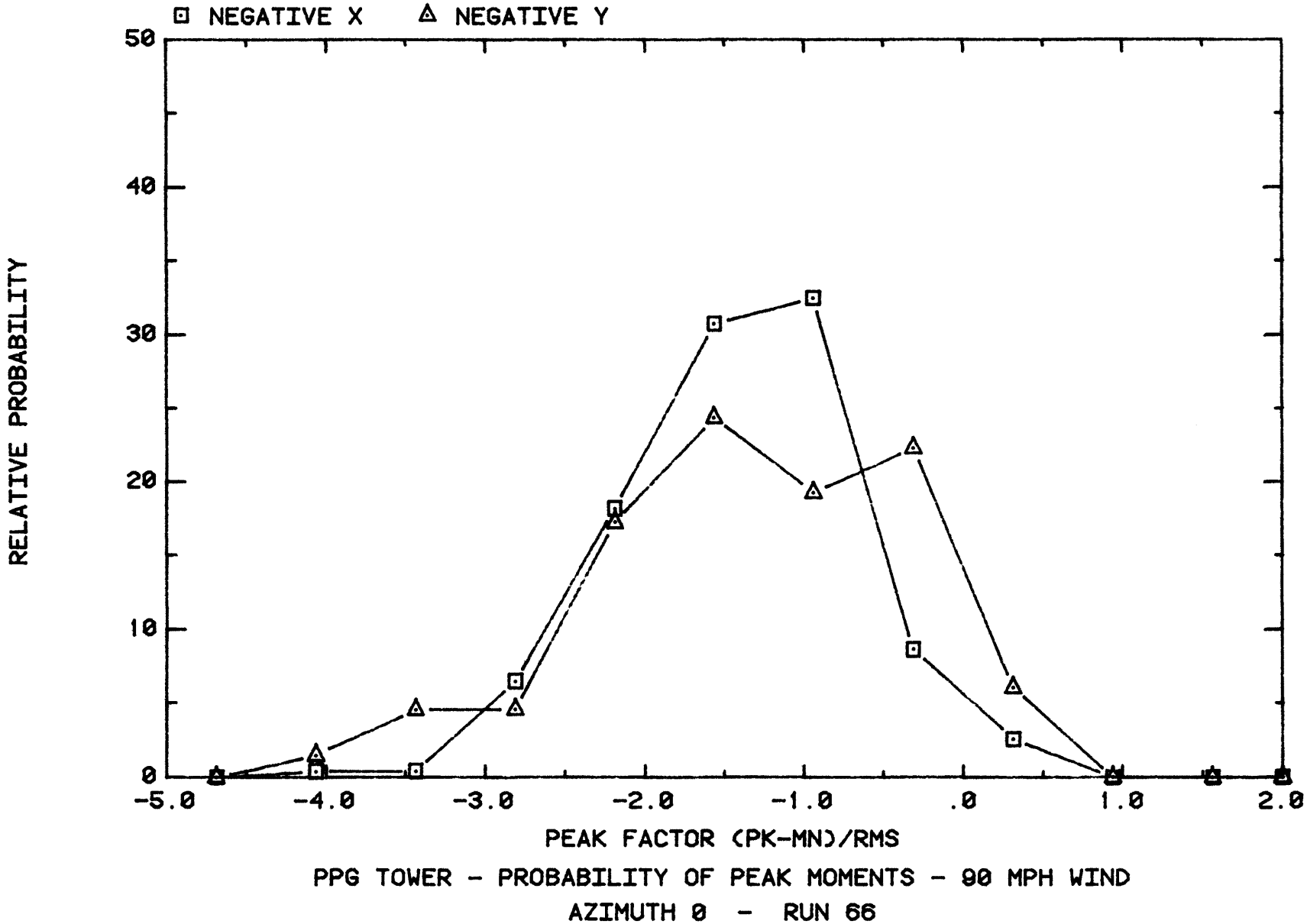


Figure 20e. Probability Distributions of Peak Moments

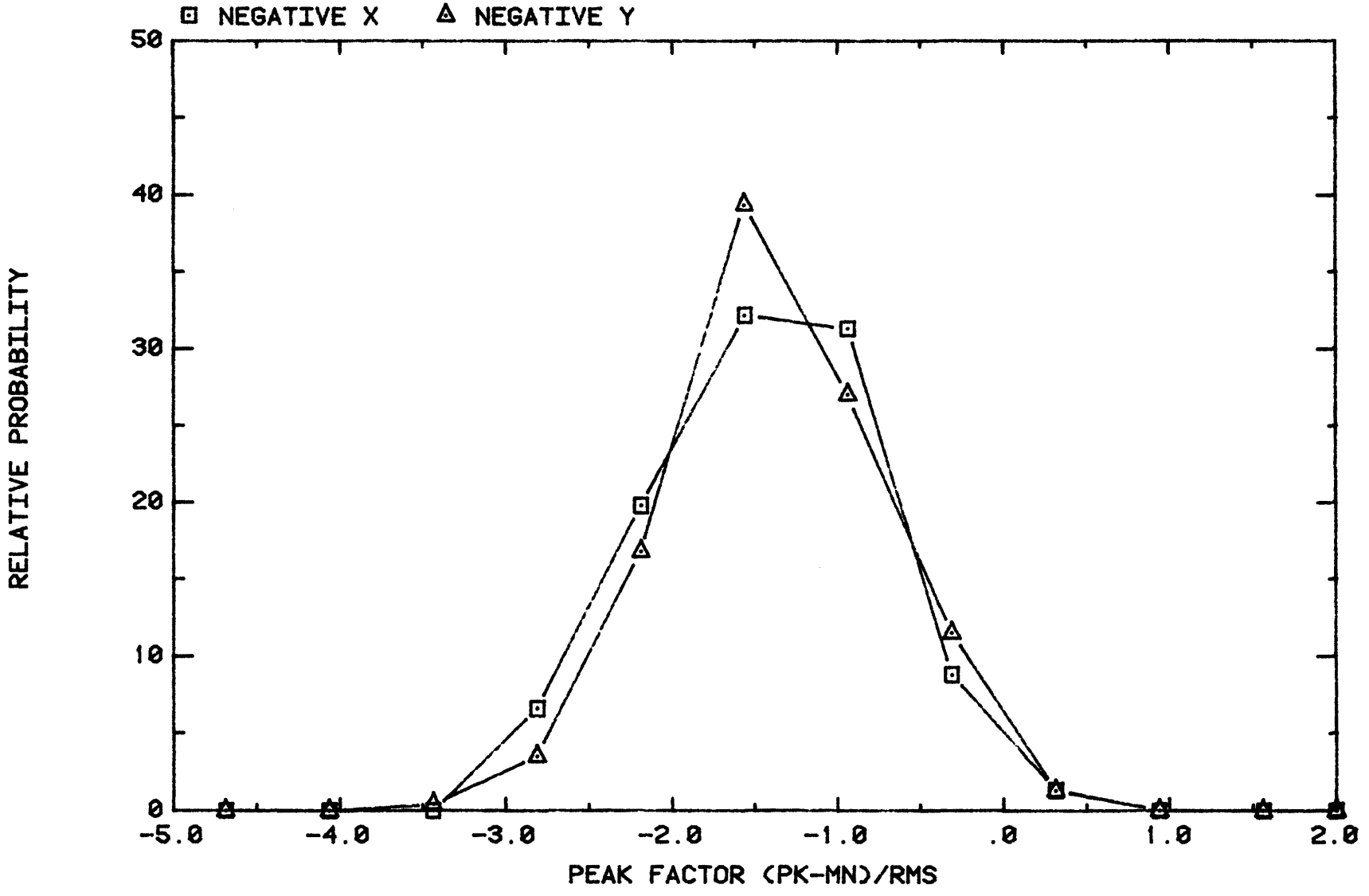


Figure 20f. Probability Distributions of Peak Moments

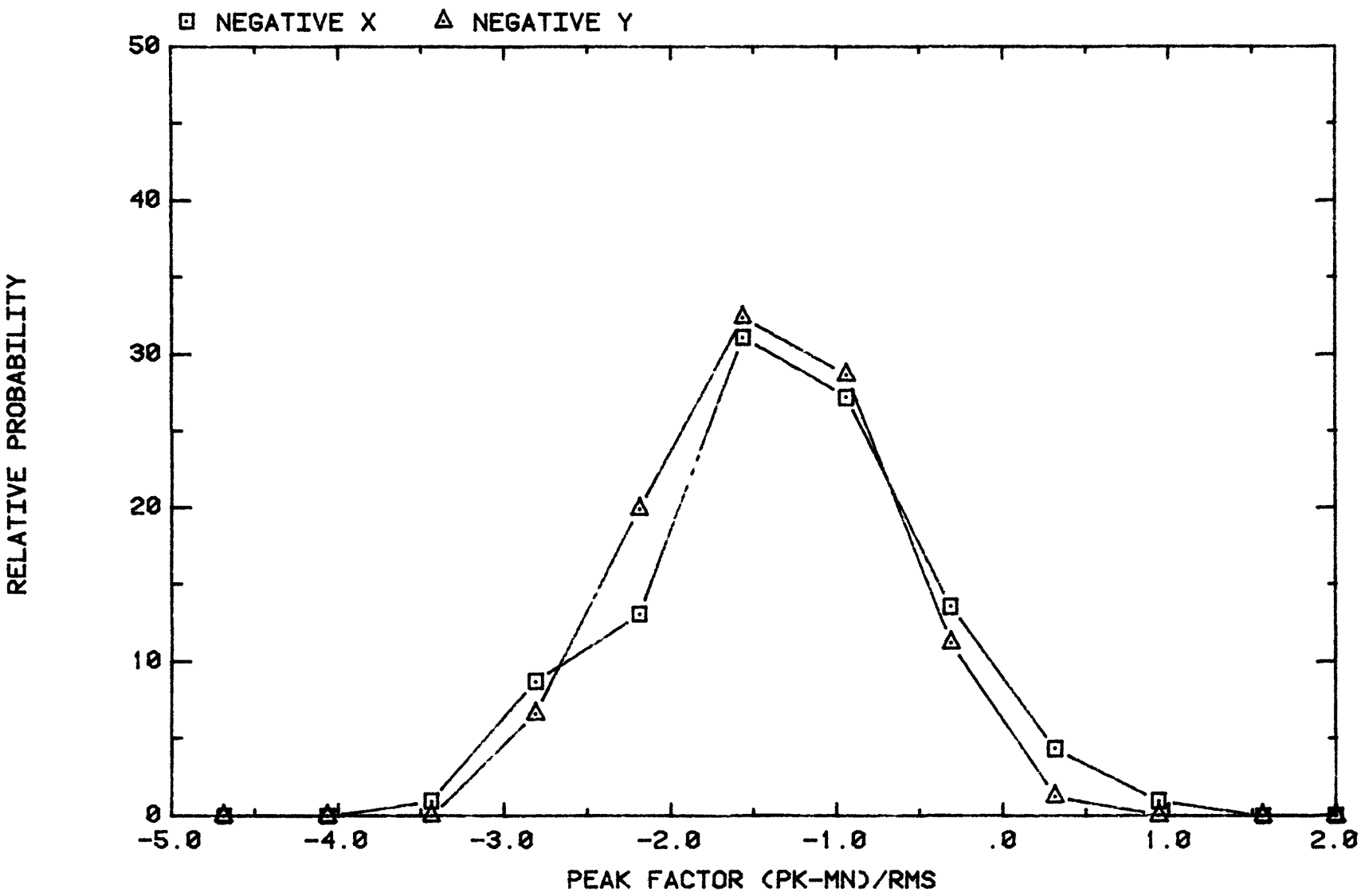


Figure 20g. Probability Distributions of Peak Moments

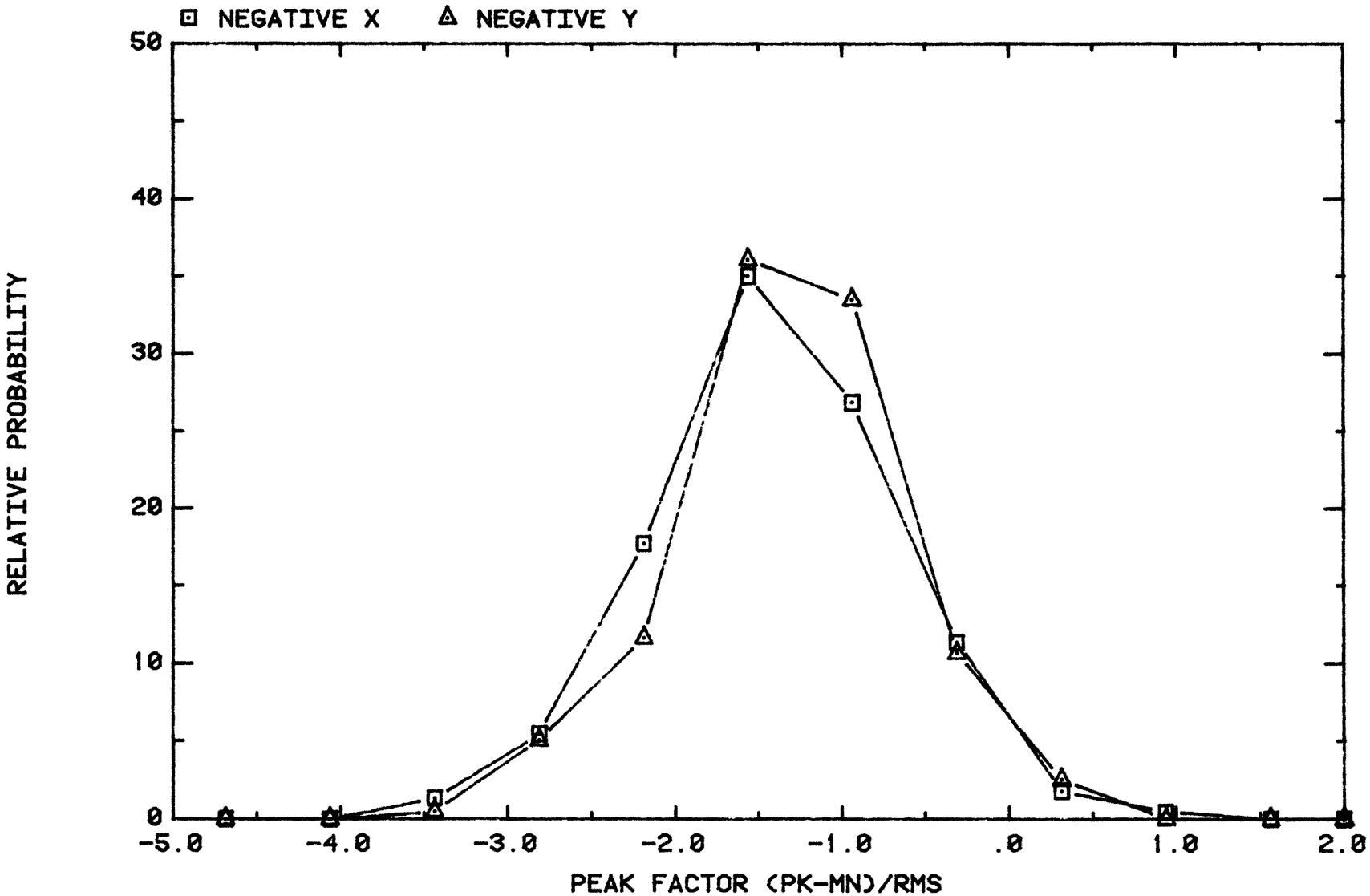


Figure 20h. Probability Distributions of Peak Moments

TABLES

TABLE 1

MOTION PICTURE SCENE GUIDE

Run	Approach Wind Azimuth
1	27°
2	72°
3	117°
4	162°
5	207°
6	252°
7	297°
8	342°
9	varies; flow about finials

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 1

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	14.0	5.5	30.4
22.50	6.9	4.2	19.4
45.00	10.7	6.4	29.8
67.50	16.8	8.3	41.8
90.00	16.0	7.7	39.1
112.50	10.5	4.6	24.3
135.00	20.1	8.6	45.9
157.50	17.1	6.3	35.9
180.00	7.4	4.0	19.4
202.50	6.2	3.8	17.4
225.00	7.7	3.8	19.1
247.50	9.1	6.2	27.8
270.00	18.8	10.8	51.3
292.50	16.7	7.4	38.9
315.00	13.3	7.5	35.8
337.50	12.7	6.9	33.5

LOCATION 2

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	25.4	8.4	50.7
22.50	25.7	10.4	56.8
45.00	18.5	10.6	50.3
67.50	11.7	6.8	32.0
90.00	15.0	8.0	38.9
112.50	33.7	13.2	73.3
135.00	37.6	12.0	73.6
157.50	31.9	12.2	68.4
180.00	13.0	9.0	40.1
202.50	8.3	5.4	24.6
225.00	5.6	3.3	15.6
247.50	5.7	3.9	17.4
270.00	22.4	.2	23.0
292.50	22.6	.0	22.7
315.00	10.7	7.2	32.3
337.50	23.3	8.6	49.1

LOCATION 3

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	24.7	8.6	50.6
22.50	18.5	8.7	44.7
45.00	21.7	9.8	51.0
67.50	9.8	4.7	23.9
90.00	16.5	7.8	39.9
112.50	19.6	8.5	45.1
135.00	30.2	9.8	59.5
157.50	26.9	8.3	51.9
180.00	26.6	7.8	50.1
202.50	27.2	10.0	57.3
225.00	17.3	7.2	38.9
247.50	16.5	11.1	49.7
270.00	22.0	.1	22.3
292.50	12.5	6.0	30.6
315.00	12.6	7.0	33.7
337.50	19.7	9.1	46.8

LOCATION 4

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	26.8	8.6	52.5
22.50	21.9	9.6	50.7
45.00	18.9	9.9	48.4
67.50	14.1	7.6	36.8
90.00	21.8	11.8	57.1
112.50	22.8	10.3	53.6
135.00	43.3	12.2	79.8
157.50	28.2	10.3	59.3
180.00	19.4	6.9	40.0
202.50	16.9	7.5	39.3
225.00	10.7	5.5	27.1
247.50	13.4	8.3	38.4
270.00	13.8	7.3	35.7
292.50	20.0	8.2	44.5
315.00	19.6	9.7	48.7
337.50	25.1	10.0	55.3

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 5

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	47.3	12.0	83.3
22.50	45.0	15.0	90.0
45.00	41.6	18.1	96.0
67.50	15.3	9.3	43.2
90.00	26.6	10.6	58.4
112.50	35.5	12.0	71.4
135.00	66.5	12.8	105.0
157.50	49.7	14.0	91.6
180.00	22.1	12.6	59.9
202.50	16.0	8.8	42.3
225.00	13.0	7.8	36.4
247.50	14.7	9.8	44.0
270.00	34.7	14.6	78.5
292.50	28.2	11.1	61.5
315.00	37.0	11.0	70.1
337.50	53.2	16.0	101.1

LOCATION 6

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	34.9	15.8	82.2
22.50	30.1	14.1	72.4
45.00	32.7	14.4	76.0
67.50	18.0	10.6	49.9
90.00	19.9	7.3	41.9
112.50	17.3	7.3	39.3
135.00	21.9	10.8	54.2
157.50	23.2	10.5	54.6
180.00	13.2	7.3	34.9
202.50	20.3	10.0	50.2
225.00	27.2	11.3	61.2
247.50	25.7	11.0	58.8
270.00	39.3	18.6	95.2
292.50	28.5	14.5	72.1
315.00	18.3	9.4	46.7
337.50	27.1	11.8	62.6

LOCATION 7

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	40.5	11.5	75.0
22.50	31.1	12.2	67.7
45.00	38.2	13.0	77.3
67.50	18.9	10.9	51.7
90.00	14.3	7.3	36.3
112.50	14.3	7.0	35.3
135.00	37.0	14.7	81.0
157.50	30.8	10.3	61.5
180.00	31.4	13.9	73.2
202.50	29.8	9.2	57.5
225.00	13.8	6.8	34.1
247.50	14.6	9.4	42.6
270.00	30.9	15.2	76.6
292.50	34.6	13.3	74.4
315.00	18.2	12.1	54.6
337.50	21.0	11.1	54.2

LOCATION 8

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	38.5	10.7	70.6
22.50	35.7	9.7	64.8
45.00	41.6	11.9	77.4
67.50	29.8	10.2	60.5
90.00	21.8	9.1	49.2
112.50	14.3	7.0	35.3
135.00	32.2	15.8	79.6
157.50	17.2	8.8	43.6
180.00	10.9	7.2	32.5
202.50	10.0	6.1	28.4
225.00	12.5	9.0	39.3
247.50	17.9	10.3	48.7
270.00	28.6	15.7	75.6
292.50	23.7	10.9	56.5
315.00	22.4	12.1	58.8
337.50	25.0	10.2	55.4

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 9

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	36.2	11.8	71.6
22.50	37.8	12.9	76.5
45.00	43.2	13.8	84.7
67.50	25.6	10.3	56.5
90.00	23.7	8.9	50.3
112.50	16.2	7.2	37.9
135.00	31.9	14.8	76.2
157.50	15.9	8.3	40.7
180.00	9.4	5.8	26.7
202.50	13.6	7.0	34.7
225.00	20.8	9.6	49.7
247.50	15.9	8.7	41.9
270.00	37.7	16.4	87.0
292.50	27.3	12.8	65.7
315.00	25.4	13.9	67.0
337.50	18.1	9.3	45.9

LOCATION 10

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	29.8	8.7	55.9
22.50	23.9	7.7	47.0
45.00	20.4	7.8	43.8
67.50	10.5	6.1	28.7
90.00	21.4	8.1	45.8
112.50	26.7	9.3	54.5
135.00	44.7	11.2	78.3
157.50	31.4	11.5	65.8
180.00	16.0	9.3	43.9
202.50	8.5	4.5	22.0
225.00	7.6	4.0	19.7
247.50	6.6	3.8	18.1
270.00	11.2	7.2	32.9
292.50	12.5	6.1	30.7
315.00	22.7	9.4	50.9
337.50	28.9	8.1	53.1

LOCATION 11

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	47.9	15.4	94.0
22.50	41.0	16.0	88.9
45.00	23.2	15.8	70.5
67.50	13.8	8.0	37.8
90.00	22.0	8.6	47.7
112.50	28.6	11.5	63.0
135.00	41.3	18.7	97.4
157.50	32.9	13.4	73.0
180.00	14.0	9.7	43.0
202.50	6.9	4.7	21.1
225.00	8.4	5.1	23.6
247.50	12.5	8.3	37.2
270.00	27.2	11.8	62.6
292.50	23.3	9.9	53.1
315.00	30.8	11.5	65.4
337.50	46.2	13.5	86.7

LOCATION 12

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	40.0	19.7	99.0
22.50	27.0	16.2	75.6
45.00	12.3	7.8	35.7
67.50	14.3	9.0	41.3
90.00	18.6	8.8	45.1
112.50	23.0	9.1	50.3
135.00	43.4	12.2	80.0
157.50	23.7	9.1	51.1
180.00	22.4	10.3	53.5
202.50	10.3	5.8	27.7
225.00	8.3	5.5	24.9
247.50	9.1	6.5	28.7
270.00	29.6	14.4	72.7
292.50	29.9	10.1	60.3
315.00	34.5	12.1	70.9
337.50	41.5	15.2	87.3

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 13

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	16.3	6.8	36.7
22.50	10.8	5.6	27.7
45.00	10.6	5.6	27.5
67.50	13.3	7.5	35.9
90.00	23.4	9.7	52.6
112.50	28.3	9.5	56.8
135.00	44.6	10.1	74.8
157.50	23.7	7.5	46.2
180.00	14.9	6.4	34.2
202.50	8.3	4.7	22.4
225.00	6.7	3.7	17.8
247.50	7.6	4.8	21.9
270.00	14.8	7.1	36.1
292.50	15.1	6.8	35.5
315.00	21.0	7.9	44.5
337.50	20.0	9.3	48.0

LOCATION 14

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	29.5	12.6	67.4
22.50	26.9	11.7	62.0
45.00	17.3	9.6	46.3
67.50	21.5	11.9	57.3
90.00	32.4	13.0	71.4
112.50	34.7	14.3	77.5
135.00	39.2	13.5	79.8
157.50	29.6	11.4	64.0
180.00	25.5	9.4	53.7
202.50	14.7	8.6	40.6
225.00	10.7	6.1	29.0
247.50	31.0	.4	32.3
270.00	21.6	9.7	50.8
292.50	26.7	8.4	52.0
315.00	27.8	12.4	65.1
337.50	33.7	13.6	74.4

LOCATION 15

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	34.7	10.5	66.4
22.50	24.8	10.0	54.7
45.00	16.6	8.9	43.4
67.50	24.9	14.0	67.0
90.00	31.9	15.0	76.7
112.50	36.6	15.0	81.5
135.00	40.3	13.3	80.3
157.50	25.8	12.0	61.7
180.00	18.4	8.1	42.6
202.50	14.3	8.4	39.6
225.00	12.2	6.4	31.6
247.50	15.0	9.4	43.1
270.00	23.8	10.6	55.7
292.50	27.9	8.8	54.2
315.00	27.5	10.1	57.8
337.50	35.7	11.0	68.5

LOCATION 16

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	21.7	9.4	50.0
22.50	14.7	8.8	41.2
45.00	13.8	8.6	39.6
67.50	13.4	8.1	37.7
90.00	20.8	12.1	57.2
112.50	19.0	9.6	47.9
135.00	24.8	10.9	57.5
157.50	21.1	9.5	49.6
180.00	16.8	10.5	48.2
202.50	29.2	12.7	67.4
225.00	18.2	8.8	44.7
247.50	20.0	11.1	53.4
270.00	35.6	14.1	77.8
292.50	24.2	10.5	55.7
315.00	16.1	10.5	47.7
337.50	17.3	13.2	56.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 17

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	11.6	4.3	24.4
22.50	6.3	3.5	16.8
45.00	8.1	5.0	23.0
67.50	8.3	4.0	20.3
90.00	14.7	8.2	39.2
112.50	14.2	6.7	34.1
135.00	11.2	6.6	30.9
157.50	11.6	5.8	28.9
180.00	8.1	4.6	22.0
202.50	14.7	9.5	43.3
225.00	12.5	7.3	34.5
247.50	10.7	7.1	32.0
270.00	21.9	.1	22.4
292.50	15.2	7.6	38.1
315.00	10.6	9.3	38.6
337.50	7.1	5.4	23.4

LOCATION 18

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	17.8	7.5	40.3
22.50	12.1	7.4	34.3
45.00	13.7	6.8	34.0
67.50	18.1	10.2	48.5
90.00	22.9	10.4	54.0
112.50	16.5	7.5	39.0
135.00	14.4	9.0	41.2
157.50	24.6	10.1	55.0
180.00	29.8	10.2	60.5
202.50	23.6	10.7	55.7
225.00	15.1	7.2	36.7
247.50	18.1	7.5	40.4
270.00	22.6	.2	23.0
292.50	14.2	8.2	38.8
315.00	17.2	11.8	52.7
337.50	13.4	10.8	45.8

LOCATION 19

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	23.2	12.5	60.8
22.50	14.3	8.4	39.5
45.00	14.4	9.0	41.5
67.50	28.7	13.6	69.5
90.00	38.5	14.1	80.7
112.50	32.6	15.9	80.4
135.00	21.8	12.4	59.0
157.50	24.6	11.3	58.4
180.00	23.3	9.2	50.8
202.50	27.3	11.2	61.0
225.00	24.0	9.3	51.8
247.50	22.6	8.1	46.8
270.00	30.9	11.0	64.0
292.50	28.9	11.5	63.3
315.00	17.1	10.2	47.7
337.50	11.9	8.6	37.7

LOCATION 20

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	26.7	12.0	62.8
22.50	20.0	10.6	51.8
45.00	18.6	9.8	47.8
67.50	20.0	10.2	50.7
90.00	28.5	11.8	64.0
112.50	32.0	13.0	71.0
135.00	40.5	14.9	85.0
157.50	31.7	12.1	68.1
180.00	24.6	10.8	57.1
202.50	18.5	11.3	52.4
225.00	17.2	9.7	46.5
247.50	17.6	8.7	43.6
270.00	26.9	12.2	63.7
292.50	30.5	11.4	64.7
315.00	20.9	10.0	51.0
337.50	29.1	13.0	68.1

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 21

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	15.8	7.2	37.5
22.50	10.8	6.8	31.2
45.00	12.2	8.0	36.2
67.50	13.7	7.2	35.3
90.00	18.6	8.2	43.2
112.50	15.8	7.6	38.7
135.00	16.0	8.6	41.7
157.50	10.9	5.8	28.4
180.00	8.3	3.9	20.1
202.50	11.3	8.3	36.3
225.00	14.3	9.9	43.9
247.50	19.7	9.4	47.9
270.00	19.8	11.5	54.1
292.50	11.6	7.0	32.6
315.00	16.2	9.8	45.6
337.50	13.3	7.9	37.1

LOCATION 22

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	10.9	6.9	31.6
22.50	14.2	6.1	32.5
45.00	14.5	6.8	35.0
67.50	21.2	8.4	46.3
90.00	27.6	8.4	52.9
112.50	23.8	9.3	51.7
135.00	30.4	9.9	60.0
157.50	14.6	6.0	32.7
180.00	11.9	6.4	31.1
202.50	17.5	7.6	40.2
225.00	17.1	6.7	37.2
247.50	19.1	8.0	43.1
270.00	20.9	9.5	49.5
292.50	24.4	8.2	49.0
315.00	23.5	9.6	52.4
337.50	11.4	7.1	32.7

LOCATION 23

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	29.4	12.0	65.3
22.50	21.5	9.1	48.9
45.00	21.5	10.3	52.6
67.50	20.5	9.3	48.5
90.00	25.2	9.1	52.5
112.50	26.2	9.1	53.4
135.00	41.2	13.6	82.0
157.50	17.3	10.1	47.7
180.00	20.0	14.4	63.1
202.50	44.3	17.7	97.4
225.00	35.1	10.9	67.9
247.50	38.8	11.0	71.9
270.00	44.0	15.5	90.4
292.50	40.1	10.5	71.7
315.00	32.5	12.6	70.3
337.50	12.8	10.0	42.8

LOCATION 24

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	9.4	5.5	26.0
22.50	12.9	8.1	37.1
45.00	19.1	10.9	51.8
67.50	19.7	11.2	53.4
90.00	29.3	12.9	68.0
112.50	22.8	10.2	53.4
135.00	24.1	12.8	62.5
157.50	15.0	8.6	40.8
180.00	13.1	10.6	44.8
202.50	24.3	13.0	63.2
225.00	22.3	11.4	56.5
247.50	28.6	10.7	60.7
270.00	22.5	.2	23.1
292.50	27.9	11.2	61.5
315.00	31.3	12.9	69.9
337.50	12.1	9.5	40.5

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 25

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	16.4	7.1	37.8
22.50	9.4	5.6	26.2
45.00	21.1	10.3	51.9
67.50	19.3	11.0	52.2
90.00	19.7	9.6	48.6
112.50	14.1	5.9	31.9
135.00	28.7	11.9	64.4
157.50	19.4	7.2	41.1
180.00	24.7	14.2	67.4
202.50	21.6	12.2	58.1
225.00	15.4	7.4	37.6
247.50	10.1	5.1	25.5
270.00	15.7	8.0	39.7
292.50	32.4	16.1	80.7
315.00	36.4	15.5	82.9
337.50	15.4	11.1	48.7

LOCATION 26

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	21.4	5.6	38.3
22.50	12.2	6.4	31.4
45.00	12.7	7.1	34.1
67.50	12.1	6.4	31.2
90.00	14.4	6.6	34.0
112.50	15.6	7.5	37.9
135.00	24.1	13.4	64.2
157.50	21.7	9.8	51.1
180.00	27.2	10.1	57.6
202.50	20.8	10.4	51.9
225.00	18.2	7.8	41.5
247.50	17.1	8.6	42.7
270.00	21.9	.2	22.4
292.50	23.8	12.8	62.3
315.00	20.1	12.6	57.9
337.50	16.2	7.3	38.1

LOCATION 27

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	23.0	10.7	55.3
22.50	28.9	9.2	56.6
45.00	31.7	9.4	59.8
67.50	35.1	10.8	67.6
90.00	44.5	12.2	81.3
112.50	27.8	10.7	59.8
135.00	32.2	12.2	68.7
157.50	16.1	8.7	42.3
180.00	18.3	13.3	58.1
202.50	31.6	14.4	74.8
225.00	23.6	10.6	55.5
247.50	23.0	8.9	49.7
270.00	22.3	.2	22.8
292.50	40.4	12.5	78.0
315.00	31.6	13.0	70.6
337.50	10.5	9.8	40.1

LOCATION 28

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	24.8	9.8	54.2
22.50	15.4	7.9	39.3
45.00	17.7	7.6	40.5
67.50	21.9	9.8	51.5
90.00	27.1	9.8	56.4
112.50	25.8	10.8	58.3
135.00	33.7	12.8	72.2
157.50	25.7	10.0	55.8
180.00	17.1	7.9	40.7
202.50	27.7	12.7	65.9
225.00	16.4	9.2	44.1
247.50	12.9	8.1	37.3
270.00	9.9	5.1	25.3
292.50	22.9	.3	23.8
315.00	15.4	10.9	48.2
337.50	21.6	14.9	66.4

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

PPG PEDESTRIAN WIND VELOCITIES

LOCATION 29

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	12.8	4.8	27.2
22.50	8.0	4.5	21.5
45.00	6.2	3.3	16.1
67.50	7.0	2.8	15.3
90.00	9.3	3.8	20.8
112.50	9.8	5.0	24.8
135.00	10.6	6.9	31.3
157.50	11.2	7.1	32.4
180.00	13.3	8.2	37.9
202.50	17.8	9.9	47.4
225.00	12.5	8.2	37.2
247.50	10.7	5.9	28.3
270.00	22.5	.2	23.1
292.50	17.1	7.6	40.0
315.00	5.9	5.3	21.7
337.50	6.6	5.3	22.6

LOCATION 30

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	14.1	6.1	32.4
22.50	7.2	4.3	20.1
45.00	7.3	5.2	22.8
67.50	13.1	6.8	33.4
90.00	15.8	8.6	41.6
112.50	12.1	5.7	29.1
135.00	25.8	8.8	52.3
157.50	15.0	8.1	39.4
180.00	13.2	7.6	36.1
202.50	8.3	4.5	21.7
225.00	7.6	5.1	22.8
247.50	6.0	3.9	17.5
270.00	23.9	8.1	48.2
292.50	18.7	8.1	43.1
315.00	16.0	10.1	46.4
337.50	11.3	5.4	27.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

PITTSBURGH, PENN. PITTSBURGH GREATER INTNL. AIRPORT (60-64)

SEASON : ANNUAL NO. OF OBS.= 3542 HT. OF MEAS.= 984.3 FT.

DIRECTION	0-10	11-22	23-33	34-45	46-56	57 +	TOTAL
N	1.63	2.59	.22	0.00	0.00	0.00	4.46
NNE	1.35	1.75	.19	.02	0.00	0.00	3.33
NE	1.15	1.29	0.00	0.00	0.00	0.00	2.46
ENE	1.35	1.38	.22	0.00	0.00	0.00	2.97
E	1.10	1.43	.33	0.00	0.00	0.00	2.88
ESE	.95	1.83	.33	.08	0.00	0.00	3.21
SE	1.10	2.28	.59	.05	0.00	0.00	4.03
SSE	1.18	1.94	.59	.05	0.00	0.00	3.78
S	1.35	1.75	.93	.11	0.00	0.00	4.15
SSW	1.43	3.58	1.55	.19	0.00	0.00	6.75
SW	1.27	6.60	3.04	.76	.05	0.00	11.74
WSW	1.66	6.80	3.92	1.04	.05	0.00	13.49
W	1.80	6.80	3.67	.73	.02	0.00	13.04
WNW	1.86	5.39	2.42	.31	0.00	0.00	9.99
NW	1.80	4.96	1.10	.02	0.00	0.00	7.90
NNW	1.55	3.86	.64	0.00	0.00	0.00	6.07
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOT	22.47	54.32	19.73	3.41	.14	0.00	100.00

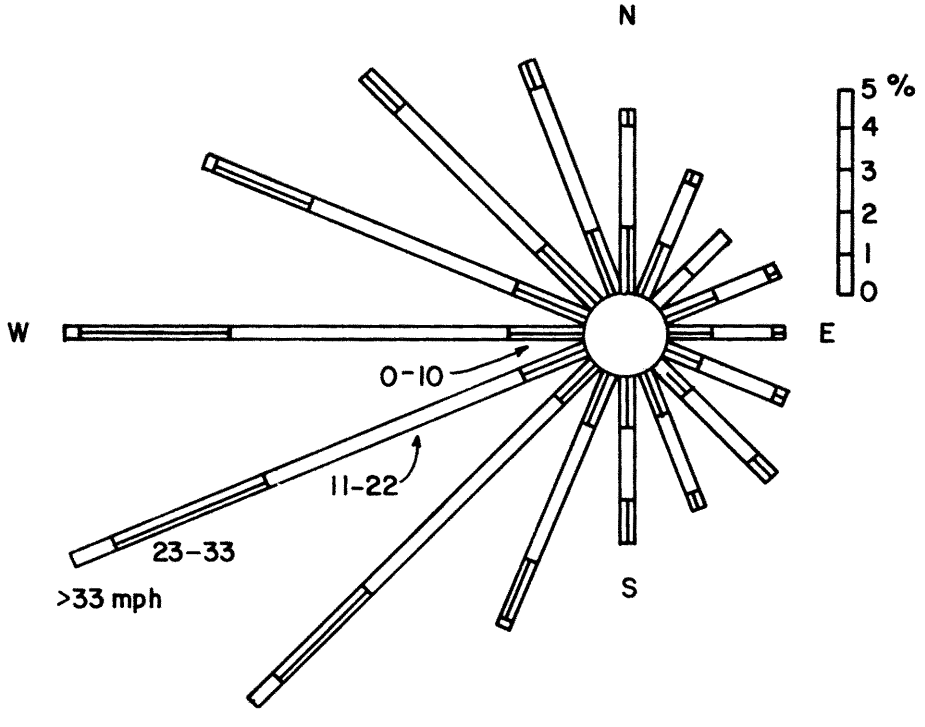


TABLE 4

SUMMARY OF WIND EFFECTS ON PEOPLE

	Beaufort number	Speed (mph)	Effects
Calm, light air	0,1	0- 3	Calm, no noticeable wind
Light breeze	2	4- 7	Wind felt on face
Gentle breeze	3	8-12	Wind extends light flag Hair is disturbed Clothing flaps
Moderate breeze	4	13-18	Raises dust, dry soil and loose paper
Fresh breeze	5	19-24	Force of wind felt on body Drifting snow becomes airborne Limit of agreeable wind on land
Strong breeze	6	25-31	Umbrellas used with difficulty Hair blown straight Difficult to walk steadily Wind noise on ears unpleasant Windborne snow above head height (blizzard)
Near gale	7	32-38	Inconvenience felt when walking
Gale	8	39-46	Generally impedes progress Great difficulty with balance in gusts
Strong gale	9	47-54	People blown over by gusts

Note: Table from Reference 4, p. 40.

TABLE 5

CALCULATION OF REFERENCE PRESSURE

1. Basic wind speed from Section 4.3:

   50-yr fastest mile at 30 ft = 62 mph

   Mean hourly wind speed = 62/1.24 = 50.0 mph

   Mean hourly gradient wind speed = $50.0(\frac{1100}{30})^{0.19}$ = 99 mph

   Mean hourly wind speed U_∞ at reference wind location 1270 ft above city = $99(\frac{1270}{1500})^{0.26}$ = 94.8 mph

   Reference pressure = $0.5\ \rho U_\infty^2 = (0.98)(0.00256)(94.8)^2$ = 22.6 psf

   Use 23 psf

2. Reduction of cladding peak pressures to 1 minute equivalent load for glass: multiply by glass load factor - 0.73 (ref. 10)

3. Loads for 25- and 100-yr winds (see Section 4.3):

   100-yr gradient level wind = 105 mph

   Multiply loads by $(\frac{105}{99})^2$ = 1.12

   25-year gradient level wind = 91 mph

   Multiply loads by $(\frac{91}{99})^2$ = 0.85

TABLE 6 : PEAK LOADS — PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND EQUIVALENT GLASS LOAD (1 MINUTE LOAD)
REFERENCE PRESSURE USED = 23 PSF — GLASS LOAD FACTOR USED = .73
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
110	300	1.44	33.1	24.2
111	60	1.30	29.9	21.8
112	15	1.20	27.5	20.1
130	180	1.12	25.7	18.7
140	45	1.09	25.2	18.4
141	45	1.27	29.2	21.3
142	105	1.12	25.9	18.9
143	30	1.48	34.0	24.8
144	60	1.67	38.4	28.0
145	45	1.65	38.0	27.8
220	15	1.33	30.5	22.3
221	180	1.37	31.5	23.0
230	255	1.14	26.1	19.1
231	30	1.33	30.7	22.4
310	135	.98	22.5	16.4
320	30	1.16	26.6	19.4
321	60	.94	21.7	15.8
322	30	1.30	29.8	21.8
323	255	1.20	27.7	20.2
324	225	1.45	33.4	24.4
325	225	1.41	32.3	23.6
330	120	1.38	31.8	23.2
331	240	1.24	28.6	20.8
332	165	1.25	28.8	21.0
410	315	1.33	30.6	22.3
411	120	1.38	31.7	23.1
440	195	1.26	29.1	21.2
441	105	1.19	27.3	20.0
901	300	1.00	23.0	16.8
902	30	.93	21.3	15.6
903	300	1.12	25.8	18.8
904	345	.96	22.0	16.1
905	45	.82	18.9	13.8
906	30	.97	22.4	16.4
907	30	1.00	22.9	16.7
908	180	1.05	24.2	17.7
909	45	1.10	25.2	18.4
910	315	.98	22.6	16.5
911	45	.86	19.8	14.4
912	45	.68	15.7	11.5
1101	120	1.36	31.2	22.8
1102	120	1.13	25.9	18.9
1103	105	1.05	24.0	17.5
1104	60	.98	22.6	16.5
1105	60	1.06	24.4	17.8
1106	60	1.21	27.8	20.3
1107	15	1.16	26.8	19.5
1108	15	1.07	24.6	18.0
1109	15	1.27	29.1	21.3
1110	315	1.51	34.6	25.3
1111	45	1.14	26.2	19.1
1112	315	1.49	34.2	25.0
1113	105	1.35	31.0	22.6
1114	300	1.35	31.1	22.7
1115	315	1.49	34.3	25.1
1116	105	1.37	31.6	23.0
1117	315	1.23	28.4	20.7
1118	30	1.10	25.3	18.4
1119	15	1.18	27.2	19.8
1120	15	1.21	27.8	20.3
1121	15	1.18	27.2	19.9
1122	15	1.19	27.3	19.9
1123	300	1.30	30.0	21.9
1124	105	1.40	32.3	23.6
1125	105	1.13	25.9	18.9
1126	105	1.13	25.9	18.9
1127	30	1.10	25.2	18.4
1128	105	1.30	30.0	21.9
1129	30	1.13	26.0	19.0
1130	30	1.11	25.5	18.6
1131	30	1.09	25.0	18.3
1132	60	1.17	26.9	19.7
1133	300	1.26	29.1	21.2
1134	300	1.11	25.5	18.6
1135	0	1.09	25.1	18.3
1136	0	1.11	25.5	18.6
1137	315	1.39	32.1	23.4
1138	30	1.68	38.5	28.1
1139	105	1.34	30.7	22.4
1140	105	1.52	34.9	25.4
1141	45	1.22	28.1	20.5
1142	120	1.21	27.8	20.3
1143	45	1.19	27.5	20.0
1144	0	1.17	27.0	19.7
1145	345	1.18	27.2	19.9
1146	105	1.49	34.3	25.1
1147	105	1.54	35.3	25.8
1148	45	1.14	26.2	19.1
1149	45	1.17	26.9	19.6
1150	120	1.15	26.5	19.4
1151	30	1.44	33.2	24.2
1152	315	1.50	34.5	25.2
1153	300	1.60	36.7	26.8
1154	45	1.73	39.7	29.0
1155	45	1.76	40.4	29.5
1156	120	1.29	29.8	21.7
1157	105	1.32	30.4	22.2
1158	0	1.18	27.1	19.8
1159	30	1.60	36.8	26.9
1160	30	1.69	39.0	28.4
1161	30	1.57	36.1	26.4
1162	30	1.68	38.6	28.2
1163	45	1.09	25.0	18.2
1164	120	1.08	24.7	18.1
1165	105	1.26	29.0	21.2
1166	30	1.18	27.3	19.9
1167	285	1.19	27.3	19.9
1168	15	1.09	25.0	18.3
1169	15	1.11	25.5	18.6
1170	15	1.10	25.4	18.5
1171	30	1.71	39.4	28.8
1172	30	1.66	38.3	27.9
1173	45	1.18	27.1	19.8
1174	30	1.51	34.6	25.3
1175	105	1.52	34.9	25.5
1176	120	1.60	36.8	26.9
1177	285	1.04	23.9	17.5
1178	105	1.21	27.7	20.2
1179	345	1.24	28.6	20.8
1180	30	1.56	35.8	26.1
1181	30	1.68	38.7	28.2
1182	30	1.61	36.9	27.0
1183	30	1.59	36.6	26.7
1184	0	1.23	28.2	20.6
1185	105	1.77	40.6	29.7
1186	300	1.20	27.6	20.2
1187	30	1.55	35.7	26.1
1188	45	1.63	37.5	27.4
1189	0	1.52	35.1	25.6
1190	0	1.52	35.1	25.6
1191	105	1.23	28.4	20.7
1192	120	1.26	28.9	21.1
1193	120	1.33	30.6	22.3
1194	135	1.47	33.8	24.6
1195	15	1.09	25.1	18.4
1196	300	1.26	28.9	21.1
1197	180	1.15	26.5	19.4
1198	300	1.07	24.6	18.0
1199	30	1.70	39.1	28.5
1200	15	1.51	34.7	25.3
1201	105	1.53	35.1	25.6
1202	120	1.22	28.1	20.5
1203	105	1.31	30.2	22.1
1204	300	1.14	26.2	19.1
1205	15	1.75	40.3	29.4
1206	15	1.85	42.7	31.1
1207	120	1.59	36.5	26.7
1208	105	1.54	35.4	25.9
1209	105	1.25	28.8	21.0
1210	105	1.59	36.7	26.8

TABLE 6 : PEAK LOADS — PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND EQUIVALENT GLASS LOAD (1 MINUTE LOAD)
REFERENCE PRESSURE USED = 23 PSF — GLASS LOAD FACTOR USED = .73
50-YR. RECURRENCE WIND

TAP	AZIMUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
1211	300	1.20	27.7	20.2
1212	60	1.57	36.1	26.3
1213	45	1.65	38.0	27.7
1214	105	1.34	30.9	22.5
1215	60	1.49	34.3	25.0
1216	15	1.61	36.9	27.0
1217	30	1.60	36.8	26.9
1218	105	1.69	39.0	28.4
1219	120	1.30	29.8	21.8
1220	120	1.46	33.5	24.5
1221	120	1.31	30.2	22.1
1222	120	1.08	24.9	18.2
1223	300	.96	22.1	16.1
1224	300	1.30	29.9	21.8
1225	285	1.84	42.3	30.9
1226	285	1.55	35.7	26.1
1227	300	1.44	33.1	24.2
1228	300	1.35	31.1	22.7
1229	60	1.87	43.0	31.4
1230	0	1.75	40.3	29.4
1231	0	1.72	39.6	28.9
1232	195	1.19	27.3	19.9
1233	105	1.41	32.5	23.7
1234	270	1.55	35.7	26.1
1235	60	1.89	43.6	31.8
1236	60	1.97	45.4	33.1
1237	165	1.44	33.0	24.1
1238	135	1.62	37.2	27.1
1239	165	2.01	46.3	33.8
1240	120	1.51	34.7	25.3
1241	60	1.46	33.6	24.5
1242	30	1.46	33.6	24.5
1243	135	1.87	43.1	31.5
1244	135	1.79	41.2	30.1
1245	135	1.69	38.9	28.4
1246	135	1.30	29.9	21.8
1247	150	1.27	29.1	21.2
1248	150	.95	21.9	16.0
1249	270	.87	20.0	14.6
1250	270	1.13	25.9	18.9
1251	270	1.52	35.0	25.6
1252	270	1.90	43.7	31.9
1253	285	1.64	37.8	27.6
1254	0	.77	17.6	12.9
1255	105	1.48	34.1	24.9
1256	270	1.04	23.9	17.5
1257	150	.91	20.9	15.2
1258	150	.61	14.0	10.2
1259	240	.71	16.4	11.9
1260	315	.50	11.6	8.5
1261	150	.93	21.5	15.7
1262	0	.68	15.7	11.4
1263	255	.87	20.0	14.6
1264	135	.64	14.7	10.8
1265	255	.52	11.9	8.7
1266	345	.71	16.3	11.9
1267	150	1.07	24.7	18.0
1901	225	1.05	24.2	17.6
1902	300	1.01	23.2	16.9
1903	285	1.01	23.2	17.0
1904	120	1.26	29.0	21.2
1905	0	.76	17.5	12.8
1906	225	1.06	24.4	17.8
1907	15	.97	22.4	16.4
1908	300	1.17	26.9	19.6
1909	210	.98	22.5	16.4
1910	300	.94	21.6	15.7
1911	210	.80	18.4	13.4
1912	270	.57	13.1	9.5
2301	15	1.64	37.8	27.6
2302	315	1.07	24.6	17.9
2303	15	1.12	25.7	18.7
2304	165	1.03	23.8	17.4
2305	30	.99	22.8	16.6
2306	30	1.06	24.4	17.8
2307	30	1.19	27.3	19.9
2308	30	1.18	27.2	19.9
2309	330	1.08	24.9	18.2
2310	210	1.45	33.3	24.3
2311	300	1.56	36.0	26.3
2312	15	1.49	34.3	25.0
2313	315	1.17	26.9	19.6
2314	210	1.31	30.1	22.0
2315	15	1.62	37.3	27.2
2316	15	1.64	37.6	27.5
2317	15	1.31	30.1	22.0
2318	330	1.12	25.7	18.8
2319	330	1.10	25.2	18.4
2320	15	1.14	26.2	19.1
2321	315	1.06	24.3	17.7
2322	30	1.32	30.5	22.2
2323	30	1.63	37.4	27.3
2324	15	1.19	27.4	20.0
2325	30	1.44	33.0	24.1
2326	195	1.19	27.3	20.0
2327	330	1.24	28.5	20.8
2328	330	1.22	28.1	20.5
2329	195	1.44	33.2	24.2
2330	315	1.17	26.9	19.6
2331	300	1.17	26.8	19.6
2332	210	1.16	26.7	19.5
2333	300	1.13	26.0	19.0
2334	225	1.24	28.6	20.9
2335	300	1.05	24.2	17.6
2336	315	1.11	25.5	18.6
2337	210	1.29	29.8	21.7
2338	270	1.09	25.0	18.3
2339	270	1.08	24.9	18.2
2340	315	1.03	23.7	17.3
2341	300	1.31	30.1	22.0
2342	300	1.74	40.0	29.2
2343	300	1.62	37.3	27.3
2344	15	1.61	36.9	27.0
2345	315	1.18	27.1	19.8
2346	300	1.63	37.6	27.4
2347	300	1.79	41.1	30.0
2348	330	1.15	26.5	19.3
2349	300	1.98	45.5	33.2
2350	15	1.21	27.8	20.3
2351	315	1.18	27.1	19.8
2352	15	1.26	29.0	21.2
2353	15	1.13	26.0	19.0
2354	195	1.22	28.0	20.4
2355	255	1.10	25.3	18.5
2356	210	1.19	27.5	20.0
2357	225	1.42	32.7	23.9
2358	285	1.62	37.2	27.2
2359	15	1.19	27.4	20.0
2360	300	1.49	34.3	25.0
2361	15	1.63	37.4	27.3
2362	30	1.57	36.0	26.3
2363	195	1.23	28.4	20.7
2364	300	1.49	34.3	25.0
2365	300	1.43	32.8	24.0
2366	195	1.30	30.0	21.9
2367	300	1.76	40.5	29.5
2368	15	1.94	44.7	32.6
2369	15	1.92	44.2	32.3
2370	30	1.86	42.8	31.3
2371	30	1.48	33.9	24.8
2372	195	1.32	30.4	22.2
2373	195	1.14	26.3	19.2
2374	210	1.09	25.2	18.4
2375	210	1.17	27.0	19.7
2376	315	1.61	37.0	27.0
2377	285	1.83	42.0	30.7
2378	30	2.30	52.9	38.6
2379	30	1.23	28.2	20.6
2380	300	1.74	40.0	29.2
2381	285	1.64	37.8	27.6

TABLE 6 : PEAK LOADS — PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND EQUIVALENT GLASS LOAD (1 MINUTE LOAD)
REFERENCE PRESSURE USED = 23 PSF — GLASS LOAD FACTOR USED = .73
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
2382	45	1.56	35.8	26.1	3114	180	1.26	28.9	21.1	3164	285	1.27	29.2	21.3
2383	15	1.70	39.1	28.5	3115	195	1.50	34.5	25.2	3165	285	1.12	25.8	18.8
2384	15	1.59	36.5	26.7	3116	285	1.39	32.0	23.4	3166	315	1.32	30.4	22.2
2385	60	1.47	33.8	24.7	3117	180	1.17	26.9	19.6	3167	105	1.07	24.6	17.9
2386	30	1.54	35.4	25.8	3118	195	1.19	27.5	20.1	3168	180	1.11	25.4	18.6
2387	30	1.37	31.6	23.1	3119	195	1.33	30.6	22.4	3169	195	1.11	25.5	18.6
2388	30	1.57	36.2	26.4	3120	195	1.24	28.4	20.8	3170	195	1.07	24.7	18.0
2389	30	1.75	40.2	29.3	3121	180	1.25	28.8	21.0	3171	120	1.31	30.1	22.0
2390	180	1.25	28.8	21.0	3122	180	1.30	29.8	21.7	3172	120	1.32	30.4	22.2
2391	45	1.11	25.4	18.6	3123	180	1.21	27.7	20.3	3173	285	1.02	23.4	17.1
2392	195	1.63	37.4	27.3	3124	285	1.42	32.7	23.8	3174	120	1.44	33.2	24.2
2393	195	1.90	43.6	31.8	3125	240	1.15	26.4	19.3	3175	195	1.25	28.8	21.0
2394	195	1.59	36.6	26.7	3126	240	1.14	26.2	19.1	3176	285	1.25	28.7	21.0
2395	195	1.39	32.0	23.4	3127	195	1.06	24.4	17.8	3177	285	1.03	23.6	17.3
2396	195	1.38	31.7	23.1	3128	300	1.20	27.5	20.1	3178	300	1.08	24.9	18.2
2397	315	1.60	36.9	26.9	3129	210	1.13	26.0	19.0	3179	120	1.22	28.1	20.5
2398	315	1.71	39.4	28.8	3130	195	1.15	26.5	19.4	3180	120	1.56	35.8	26.1
2399	15	1.69	39.0	28.4	3131	195	1.15	26.5	19.3	3181	210	1.53	35.2	25.7
2400	15	1.57	36.1	26.3	3132	195	1.14	26.2	19.1	3182	300	1.47	33.9	24.8
2401	30	1.41	32.5	23.7	3133	195	1.21	27.7	20.2	3183	285	1.46	33.6	24.6
2402	30	1.81	41.7	30.4	3134	195	1.23	28.3	20.6	3184	300	1.18	27.0	19.7
2403	60	1.75	40.3	29.4	3135	195	1.23	28.2	20.6	3185	300	1.26	28.9	21.1
2404	75	2.07	47.6	34.8	3136	180	1.16	26.7	19.5	3186	300	1.28	29.4	21.4
2405	45	1.81	41.7	30.4	3137	195	1.38	31.7	23.1	3187	195	1.38	31.8	23.2
2406	45	2.09	48.1	35.1	3138	195	1.34	30.8	22.5	3188	120	1.41	32.4	23.6
2407	30	1.70	39.0	28.5	3139	210	1.32	30.4	22.2	3189	195	1.65	38.0	27.8
2408	45	1.02	23.4	17.1	3140	240	1.16	26.8	19.5	3190	195	1.63	37.4	27.3
2409	315	.68	15.7	11.5	3141	240	1.29	29.6	21.6	3191	300	1.47	33.8	24.7
2410	315	.77	17.8	13.0	3142	240	1.23	28.4	20.7	3192	300	1.66	38.2	27.9
2411	165	.97	22.4	16.3	3143	240	1.19	27.4	20.0	3193	300	1.02	23.5	17.2
2412	165	1.23	28.2	20.6	3144	165	1.19	27.4	20.0	3194	285	1.06	24.4	17.8
2413	150	1.42	32.8	23.9	3145	165	1.12	25.8	18.8	3195	300	1.05	24.1	17.6
2414	150	1.29	29.8	21.7	3146	195	1.27	29.3	21.4	3196	120	1.06	24.3	17.7
2415	30	1.30	30.0	21.9	3147	285	1.18	27.0	19.7	3197	120	1.14	26.2	19.1
2416	150	1.00	23.0	16.8	3148	240	1.13	26.1	19.0	3198	120	1.16	26.6	19.4
2417	270	.56	13.0	9.5	3149	240	1.13	26.1	19.1	3199	135	1.49	34.4	25.1
2418	255	.44	10.1	7.4	3150	165	1.05	24.1	17.6	3200	195	1.57	36.0	26.3
3101	285	1.27	29.3	21.4	3151	210	1.38	31.7	23.1	3201	330	1.47	33.9	24.8
3102	225	1.24	28.4	20.7	3152	210	1.44	33.1	24.2	3202	330	1.52	34.9	25.5
3103	225	1.22	28.1	20.5	3153	135	1.59	36.5	26.7	3203	330	1.66	38.1	27.8
3104	225	1.18	27.1	19.8	3154	285	1.36	31.4	22.9	3204	105	1.34	30.7	22.4
3105	180	1.15	26.4	19.3	3155	285	1.40	32.3	23.6	3205	120	1.50	34.6	25.2
3106	180	1.06	24.5	17.9	3156	285	1.17	26.8	19.6	3206	120	1.47	33.9	24.7
3107	225	1.15	26.4	19.3	3157	300	1.13	26.0	19.0	3207	195	1.40	32.2	23.5
3108	180	1.09	25.0	18.3	3158	120	1.38	31.8	23.2	3208	330	1.38	31.7	23.1
3109	195	1.23	28.3	20.6	3159	210	1.48	34.0	24.8	3209	345	1.62	37.3	27.2
3110	195	1.23	28.2	20.6	3160	210	1.58	36.2	26.5	3210	345	1.69	39.0	28.4
3111	225	1.08	25.0	18.2	3161	195	1.54	35.4	25.9	3211	90	1.86	42.7	31.2
3112	210	1.42	32.7	23.8	3162	195	1.39	32.0	23.4	3212	195	1.48	33.9	24.8
3113	285	1.28	29.5	21.6	3163	285	1.24	28.6	20.9	3213	210	2.08	47.9	35.0

TABLE 6 : PEAK LOADS — PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND EQUIVALENT GLASS LOAD (1 MINUTE LOAD)
REFERENCE PRESSURE USED = 23 PSF — GLASS LOAD FACTOR USED = .73
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
3214	345	1.65	38.1	27.8	3264	240	.76	17.5	12.8	4347	120	1.94	44.5	32.5
3215	210	1.98	45.5	33.2	3265	270	.78	17.9	13.0	4348	225	1.07	24.7	18.0
3216	315	1.84	42.2	30.8	3266	180	.61	14.1	10.3	4349	120	2.06	47.3	34.5
3217	300	1.72	39.5	28.8	3267	315	.61	14.1	10.3	4350	195	1.34	30.8	22.5
3218	330	1.91	44.0	32.1	4301	195	1.63	37.4	27.3	4351	195	1.18	27.1	19.8
3219	300	1.60	36.7	26.8	4302	75	1.06	24.5	17.9	4352	105	1.04	24.0	17.5
3220	300	1.80	41.5	30.3	4303	195	1.02	23.5	17.1	4353	210	1.15	26.5	19.3
3221	330	1.36	31.2	22.8	4304	90	1.04	23.9	17.5	4354	30	1.19	27.3	19.9
3222	300	1.12	25.7	18.8	4305	30	1.08	24.8	18.1	4355	45	1.35	31.1	22.7
3223	315	1.01	23.2	16.9	4306	90	1.15	26.4	19.3	4356	45	1.41	32.3	23.6
3224	75	1.38	31.8	23.2	4307	45	1.06	24.4	17.8	4357	45	1.32	30.3	22.1
3225	105	1.95	44.7	32.7	4308	90	1.12	25.8	18.8	4358	120	1.60	36.7	26.8
3226	105	1.71	39.4	28.8	4309	30	1.25	28.8	21.0	4359	195	1.13	25.9	18.9
3227	90	1.59	36.5	26.7	4310	30	1.93	44.4	32.4	4360	120	1.51	34.7	25.3
3228	90	1.55	35.7	26.1	4311	195	1.98	45.6	33.3	4361	120	1.68	38.5	28.1
3229	195	1.92	44.1	32.2	4312	105	1.57	36.1	26.4	4362	120	1.66	38.1	27.8
3230	195	1.72	39.5	28.8	4313	90	1.11	25.6	18.7	4363	210	1.16	26.7	19.5
3231	195	1.74	39.9	29.2	4314	45	1.49	34.3	25.0	4364	210	1.75	40.3	29.4
3232	345	1.48	34.1	24.9	4315	195	1.88	43.2	31.5	4365	210	1.63	37.6	27.4
3233	315	2.09	48.2	35.2	4316	195	1.66	38.2	27.9	4366	210	1.43	33.0	24.1
3234	90	1.58	36.3	26.5	4317	195	1.51	34.7	25.3	4367	120	1.48	34.0	24.8
3235	90	1.58	36.2	26.5	4318	195	1.23	28.2	20.6	4368	195	1.19	27.5	20.1
3236	90	1.57	36.0	26.3	4319	195	1.20	27.6	20.2	4369	195	1.23	28.4	20.7
3237	315	1.54	35.5	25.9	4320	180	1.29	29.7	21.7	4370	195	1.32	30.4	22.2
3238	330	1.43	32.9	24.0	4321	105	1.32	30.3	22.1	4371	0	1.35	31.0	22.6
3239	330	1.57	36.0	26.3	4322	195	1.14	26.1	19.1	4372	15	1.15	26.3	19.2
3240	315	1.80	41.5	30.3	4323	195	1.23	28.2	20.6	4373	30	1.42	32.7	23.9
3241	30	1.54	35.3	25.8	4324	120	1.09	25.1	18.3	4374	30	1.68	38.7	28.3
3242	30	1.52	34.9	25.5	4325	195	1.15	26.5	19.3	4375	30	1.45	33.2	24.3
3243	345	1.19	27.4	20.0	4326	105	1.24	28.5	20.8	4376	30	1.87	43.0	31.4
3244	345	1.32	30.3	22.1	4327	105	1.21	27.7	20.2	4377	90	1.71	39.4	28.7
3245	345	1.24	28.6	20.9	4328	105	1.14	26.3	19.2	4378	105	1.82	41.8	30.5
3246	315	1.08	24.9	18.2	4329	30	1.29	29.7	21.7	4379	240	1.46	33.6	24.5
3247	330	.80	18.5	13.5	4330	105	1.14	26.3	19.2	4380	90	1.85	42.5	31.0
3248	315	.59	13.5	9.8	4331	105	1.13	25.9	18.9	4381	210	1.87	43.0	31.4
3249	315	.80	18.4	13.5	4332	30	1.31	30.2	22.1	4382	210	1.73	39.8	29.0
3250	180	.81	18.7	13.6	4333	30	1.35	31.0	22.6	4383	105	1.93	44.4	32.4
3251	75	.58	13.3	9.7	4334	30	1.47	33.8	24.7	4384	105	2.12	48.8	35.7
3252	75	1.16	26.6	19.4	4335	30	1.23	28.4	20.7	4385	225	1.30	29.9	21.8
3253	240	1.31	30.2	22.0	4336	105	1.13	26.1	19.0	4386	195	1.24	28.5	20.8
3254	150	.99	22.8	16.6	4337	45	1.51	34.8	25.4	4387	195	1.42	32.8	23.9
3255	240	.92	21.2	15.5	4338	75	1.34	30.8	22.5	4388	195	1.88	43.3	31.6
3256	255	.46	10.5	7.7	4339	105	1.19	27.3	19.9	4389	195	1.27	29.3	21.4
3257	150	.53	12.1	8.8	4340	90	1.21	27.9	20.3	4390	15	1.09	25.0	18.2
3258	315	.44	10.2	7.5	4341	45	1.71	39.2	28.6	4391	30	1.16	26.6	19.4
3259	270	.65	15.0	10.9	4342	45	1.51	34.8	25.4	4392	30	1.48	34.1	24.9
3260	45	.68	15.5	11.3	4343	195	1.55	35.7	26.1	4393	30	1.70	39.0	28.5
3261	195	.45	10.3	7.5	4344	120	1.48	34.1	24.9	4394	30	1.51	34.7	25.3
3262	75	.59	13.7	10.0	4345	210	1.09	25.1	18.3	4395	30	1.31	30.2	22.0
3263	15	.57	13.0	9.5	4346	120	1.62	37.2	27.2	4396	30	2.16	49.7	36.3

TABLE 6 : PEAK LOADS — PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND EQUIVALENT GLASS LOAD (1 MINUTE LOAD)
REFERENCE PRESSURE USED = 23 PSF — GLASS LOAD FACTOR USED = .73
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
4397	30	2.58	59.4	43.3	4408	240	.83	19.0	13.9	4419	105	.89	20.4	14.9
4398	30	2.48	57.0	41.6	4409	240	.92	21.1	15.4	4420	105	.74	17.0	12.4
4399	90	1.48	34.1	24.9	4410	0	1.22	27.9	20.4	4421	255	.85	19.7	14.3
4400	105	1.49	34.3	25.1	4411	0	1.25	28.7	20.9	4422	105	.78	17.8	13.0
4401	240	1.32	30.4	22.2	4412	0	1.32	30.3	22.2	4423	345	.79	18.2	13.3
4402	30	1.53	35.3	25.8	4413	30	1.38	31.8	23.2	4424	105	.74	17.1	12.5
4403	30	1.53	35.2	25.7	4414	135	1.52	34.9	25.4	9901	90	.44	10.1	7.3
4404	240	1.22	28.0	20.4	4415	240	1.34	30.8	22.5	9902	270	.49	11.4	8.3
4405	15	1.16	26.6	19.4	4416	330	2.07	47.7	34.8	9903	270	.42	9.7	7.1
4406	240	.86	19.8	14.5	4417	255	1.28	29.5	21.5	9904	300	.58	13.3	9.7
4407	240	.89	20.5	14.9	4418	15	1.03	23.6	17.2	9905	135	.54	12.5	9.1

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
MOST NEGATIVE VALUE OF CPMIN FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
110	300	-1.44	-33.1	-24.2
111	105	-1.23	-28.2	-20.6
112	75	-1.10	-25.3	-18.5
130	180	-1.12	-25.7	-18.7
140	45	-1.09	-25.2	-18.4
141	45	-1.27	-29.2	-21.3
142	270	-1.07	-24.6	-18.0
143	30	-1.48	-34.0	-24.8
144	60	-1.67	-38.4	-28.0
145	45	-1.65	-38.0	-27.8
220	15	-1.33	-30.5	-22.3
221	180	-1.37	-31.5	-23.0
230	180	-.97	-22.3	-16.2
231	30	-1.33	-30.7	-22.4
310	135	-.98	-22.5	-16.4
320	30	-1.16	-26.6	-19.4
321	60	-.94	-21.7	-15.8
322	30	-1.30	-29.8	-21.8
323	210	-1.10	-25.3	-18.5
324	225	-1.45	-33.4	-24.4
325	225	-1.41	-32.3	-23.6
330	120	-1.38	-31.8	-23.2
331	285	-1.10	-25.3	-18.5
332	45	-1.22	-28.0	-20.4
410	315	-1.33	-30.6	-22.3
411	120	-1.38	-31.7	-23.1
440	195	-1.26	-29.1	-21.2
441	0	-1.18	-27.0	-19.7
901	300	-1.00	-23.0	-16.8
902	30	-.93	-21.3	-15.6
903	300	-1.12	-25.8	-18.8
904	345	-.96	-22.0	-16.1
905	45	-.82	-18.9	-13.8
906	30	-.97	-22.4	-16.4
907	30	-1.00	-22.9	-16.7
908	180	-1.05	-24.2	-17.7
909	45	-1.10	-25.2	-18.4
910	315	-.98	-22.6	-16.5
911	45	-.86	-19.8	-14.4
912	45	-.68	-15.7	-11.5
1101	120	-1.36	-31.2	-22.8
1102	120	-1.13	-25.9	-18.9
1103	105	-1.05	-24.0	-17.5
1104	105	-.90	-20.8	-15.2
1105	105	-1.00	-22.9	-16.7
1106	105	-.94	-21.6	-15.8
1107	315	-.94	-21.7	-15.9
1108	315	-.99	-22.8	-16.6
1109	300	-1.07	-24.7	-18.0
1110	315	-1.51	-34.6	-25.3
1111	105	-1.11	-25.5	-18.6
1112	315	-1.49	-34.2	-25.0
1113	105	-1.35	-31.0	-22.6
1114	300	-1.35	-31.1	-22.7
1115	315	-1.49	-34.3	-25.1
1116	105	-1.37	-31.6	-23.0
1117	315	-1.23	-28.4	-20.7
1118	105	-1.01	-23.2	-16.9
1119	105	-1.06	-24.3	-17.7
1120	135	-1.10	-25.4	-18.5
1121	285	-1.04	-23.9	-17.4
1122	300	-1.12	-25.8	-18.9
1123	300	-1.30	-30.0	-21.9
1124	105	-1.40	-32.3	-23.6
1125	105	-1.13	-25.9	-18.9
1126	105	-1.13	-25.9	-18.9
1127	105	-.92	-21.1	-15.4
1128	105	-1.30	-30.0	-21.9
1129	120	-1.03	-23.6	-17.2
1130	120	-1.07	-24.7	-18.0
1131	300	-1.04	-23.9	-17.4
1132	300	-1.09	-25.0	-18.2
1133	300	-1.26	-29.1	-21.2
1134	300	-1.11	-25.5	-18.6
1135	300	-1.03	-23.8	-17.4
1136	300	-1.02	-23.5	-17.2
1137	315	-1.39	-32.1	-23.4
1138	30	-1.68	-38.5	-28.1
1139	105	-1.34	-30.7	-22.4
1140	105	-1.52	-34.9	-25.4
1141	105	-1.13	-25.9	-18.9
1142	120	-1.21	-27.8	-20.3
1143	120	-1.07	-24.7	-18.0
1144	300	-1.02	-23.4	-17.1
1145	315	-1.14	-26.2	-19.1
1146	105	-1.49	-34.3	-25.1
1147	105	-1.54	-35.3	-25.8
1148	285	-1.11	-25.5	-18.7
1149	105	-1.14	-26.2	-19.2
1150	120	-1.15	-26.5	-19.4
1151	30	-1.44	-33.2	-24.2
1152	315	-1.50	-34.5	-25.2
1153	300	-1.60	-36.7	-26.8
1154	45	-1.73	-39.7	-29.0
1155	45	-1.76	-40.4	-29.5
1156	120	-1.29	-29.8	-21.7
1157	105	-1.32	-30.4	-22.2
1158	120	-1.12	-25.9	-18.9
1159	30	-1.60	-36.8	-26.9
1160	30	-1.69	-39.0	-28.4
1161	30	-1.57	-36.1	-26.4
1162	30	-1.68	-38.6	-28.2
1163	105	-1.08	-24.8	-18.1
1164	120	-1.08	-24.7	-18.1
1165	105	-1.26	-29.0	-21.2
1166	135	-1.03	-23.8	-17.4
1167	285	-1.19	-27.3	-19.9
1168	300	-1.07	-24.6	-18.0
1169	300	-1.01	-23.3	-17.0
1170	135	-1.01	-23.2	-16.9
1171	30	-1.71	-39.4	-28.8
1172	30	-1.66	-38.3	-27.9
1173	105	-1.15	-26.3	-19.2
1174	30	-1.51	-34.6	-25.3
1175	105	-1.52	-34.9	-25.5
1176	120	-1.60	-36.8	-26.9
1177	285	-1.04	-23.9	-17.5
1178	105	-1.21	-27.7	-20.2
1179	120	-1.22	-28.2	-20.6
1180	30	-1.56	-35.8	-26.1
1181	30	-1.68	-38.7	-28.2
1182	30	-1.61	-36.9	-27.0
1183	30	-1.59	-36.6	-26.7
1184	120	-1.15	-26.6	-19.4
1185	105	-1.77	-40.6	-29.7
1186	300	-1.20	-27.6	-20.2
1187	30	-1.55	-35.7	-26.1
1188	45	-1.63	-37.5	-27.4
1189	0	-1.52	-35.1	-25.6
1190	0	-1.52	-35.1	-25.6
1191	105	-1.23	-28.4	-20.7
1192	120	-1.26	-28.9	-21.1
1193	120	-1.33	-30.6	-22.3
1194	135	-1.47	-33.8	-24.6
1195	150	-1.05	-24.0	-17.6
1196	300	-1.26	-28.9	-21.1
1197	180	-1.15	-26.5	-19.4
1198	300	-1.07	-24.6	-18.0
1199	30	-1.70	-39.1	-28.5
1200	15	-1.51	-34.7	-25.3
1201	105	-1.53	-35.1	-25.6
1202	120	-1.22	-28.1	-20.5
1203	105	-1.31	-30.2	-22.1
1204	300	-1.14	-26.2	-19.1
1205	15	-1.75	-40.3	-29.4
1206	15	-1.85	-42.7	-31.1
1207	120	-1.59	-36.5	-26.7
1208	105	-1.54	-35.4	-25.9
1209	105	-1.25	-28.8	-21.0
1210	105	-1.59	-36.7	-26.8

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
MOST NEGATIVE VALUE OF CPMIN FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
1211	300	-1.20	-27.7	-20.2
1212	60	-1.57	-36.1	-26.3
1213	45	-1.65	-38.0	-27.7
1214	105	-1.34	-30.9	-22.5
1215	60	-1.49	-34.3	-25.0
1216	15	-1.61	-36.9	-27.0
1217	30	-1.60	-36.8	-26.9
1218	105	-1.69	-39.0	-28.4
1219	120	-1.30	-29.8	-21.8
1220	120	-1.46	-33.5	-24.5
1221	120	-1.31	-30.2	-22.1
1222	120	-1.08	-24.9	-18.2
1223	300	-.96	-22.1	-16.1
1224	300	-1.30	-29.9	-21.8
1225	285	-1.84	-42.3	-30.9
1226	285	-1.55	-35.7	-26.1
1227	300	-1.44	-33.1	-24.2
1228	300	-1.35	-31.1	-22.7
1229	60	-1.87	-43.0	-31.4
1230	0	-1.75	-40.3	-29.4
1231	0	-1.72	-39.6	-28.9
1232	195	-1.19	-27.3	-19.9
1233	105	-1.41	-32.5	-23.7
1234	270	-1.55	-35.7	-26.1
1235	60	-1.89	-43.6	-31.8
1236	60	-1.97	-45.4	-33.1
1237	165	-1.44	-33.0	-24.1
1238	135	-1.62	-37.2	-27.1
1239	165	-2.01	-46.3	-33.8
1240	120	-1.51	-34.7	-25.3
1241	60	-1.46	-33.6	-24.5
1242	30	-1.46	-33.6	-24.5
1243	135	-1.87	-43.1	-31.5
1244	135	-1.79	-41.2	-30.1
1245	135	-1.69	-38.9	-28.4
1246	135	-1.30	-29.9	-21.8
1247	150	-1.27	-29.1	-21.2
1248	150	-.95	-21.9	-16.0
1249	270	-.87	-20.0	-14.6
1250	270	-1.13	-25.9	-18.9
1251	270	-1.52	-35.0	-25.6
1252	270	-1.90	-43.7	-31.9
1253	285	-1.64	-37.8	-27.6
1254	0	-.77	-17.6	-12.9
1255	105	-1.48	-34.1	-24.9
1256	270	-1.04	-23.9	-17.5
1257	150	-.91	-20.9	-15.2
1258	150	-.61	-14.0	-10.2
1259	240	-.71	-16.4	-11.9
1260	150	-.48	-11.0	-8.0
1261	150	-.93	-21.5	-15.7
1262	150	-.47	-10.8	-7.9
1263	255	-.87	-20.0	-14.6
1264	135	-.64	-14.7	-10.8
1265	330	-.39	-9.0	-6.6
1266	345	-.71	-16.3	-11.9
1267	150	-1.07	-24.7	-18.0
1901	225	-1.05	-24.2	-17.6
1902	300	-1.01	-23.2	-16.9
1903	285	-1.01	-23.2	-17.0
1904	120	-1.26	-29.0	-21.2
1905	0	-.76	-17.5	-12.8
1906	225	-1.06	-24.4	-17.8
1907	15	-.97	-22.4	-16.4
1908	300	-1.17	-26.9	-19.6
1909	210	-.98	-22.5	-16.4
1910	300	-.94	-21.6	-15.7
1911	210	-.80	-18.4	-13.4
1912	270	-.57	-13.1	-9.5
2301	15	-1.64	-37.8	-27.6
2302	15	-.97	-22.2	-16.2
2303	15	-1.12	-25.7	-18.7
2304	165	-1.03	-23.8	-17.4
2305	30	-.99	-22.8	-16.6
2306	30	-1.06	-24.4	-17.8
2307	30	-1.19	-27.3	-19.9
2308	30	-1.18	-27.2	-19.9
2309	30	-.96	-22.0	-16.0
2310	210	-1.45	-33.3	-24.3
2311	300	-1.56	-36.0	-26.3
2312	15	-1.49	-34.3	-25.0
2313	15	-1.14	-26.3	-19.2
2314	210	-1.31	-30.1	-22.0
2315	15	-1.62	-37.3	-27.2
2316	15	-1.64	-37.6	-27.5
2317	15	-1.31	-30.1	-22.0
2318	15	-1.01	-23.2	-17.0
2319	15	-1.03	-23.8	-17.4
2320	15	-1.14	-26.2	-19.1
2321	15	-.98	-22.6	-16.5
2322	30	-1.32	-30.5	-22.2
2323	30	-1.63	-37.4	-27.3
2324	15	-1.19	-27.4	-20.0
2325	30	-1.44	-33.0	-24.1
2326	195	-1.19	-27.3	-20.0
2327	195	-1.11	-25.5	-18.6
2328	30	-1.19	-27.4	-20.0
2329	195	-1.44	-33.2	-24.2
2330	195	-1.16	-26.7	-19.5
2331	15	-.95	-21.8	-15.9
2332	210	-1.16	-26.7	-19.5
2333	210	-.97	-22.4	-16.3
2334	225	-1.24	-28.6	-20.9
2335	210	-.99	-22.7	-16.6
2336	195	-.95	-21.8	-15.9
2337	210	-1.29	-29.8	-21.7
2338	240	-.98	-22.5	-16.4
2339	210	-.99	-22.8	-16.7
2340	30	-1.01	-23.1	-16.9
2341	300	-1.31	-30.1	-22.0
2342	300	-1.74	-40.0	-29.2
2343	300	-1.62	-37.3	-27.3
2344	15	-1.61	-36.9	-27.0
2345	30	-1.02	-23.4	-17.1
2346	300	-1.63	-37.6	-27.4
2347	300	-1.79	-41.1	-30.0
2348	15	-1.14	-26.2	-19.1
2349	300	-1.98	-45.5	-33.2
2350	15	-1.21	-27.8	-20.3
2351	15	-1.11	-25.4	-18.6
2352	15	-1.26	-29.0	-21.2
2353	15	-1.13	-26.0	-19.0
2354	195	-1.22	-28.0	-20.4
2355	195	-1.08	-24.8	-18.1
2356	210	-1.19	-27.5	-20.0
2357	225	-1.42	-32.7	-23.9
2358	285	-1.62	-37.2	-27.2
2359	15	-1.19	-27.4	-20.0
2360	300	-1.49	-34.3	-25.0
2361	15	-1.63	-37.4	-27.3
2362	30	-1.57	-36.0	-26.3
2363	195	-1.23	-28.4	-20.7
2364	300	-1.49	-34.3	-25.0
2365	300	-1.43	-32.8	-24.0
2366	195	-1.30	-30.0	-21.9
2367	300	-1.76	-40.5	-29.5
2368	15	-1.94	-44.7	-32.6
2369	15	-1.92	-44.2	-32.3
2370	30	-1.86	-42.8	-31.3
2371	30	-1.48	-33.9	-24.8
2372	195	-1.32	-30.4	-22.2
2373	195	-1.14	-26.3	-19.2
2374	210	-1.09	-25.2	-18.4
2375	210	-1.17	-27.0	-19.7
2376	315	-1.61	-37.0	-27.0
2377	285	-1.83	-42.0	-30.7
2378	30	-2.30	-52.9	-38.6
2379	30	-1.23	-28.2	-20.6
2380	300	-1.74	-40.0	-29.2
2381	285	-1.64	-37.8	-27.6

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
MOST NEGATIVE VALUE OF CPMIN FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
2382	45	-1.56	-35.8	-26.1
2383	15	-1.70	-39.1	-28.5
2384	15	-1.59	-36.5	-26.7
2385	60	-1.47	-33.8	-24.7
2386	30	-1.54	-35.4	-25.8
2387	30	-1.37	-31.6	-23.1
2388	30	-1.57	-36.2	-26.4
2389	30	-1.75	-40.2	-29.3
2390	180	-1.25	-28.8	-21.0
2391	45	-1.11	-25.4	-18.6
2392	195	-1.63	-37.4	-27.3
2393	195	-1.90	-43.6	-31.8
2394	195	-1.59	-36.6	-26.7
2395	195	-1.39	-32.0	-23.4
2396	195	-1.38	-31.7	-23.1
2397	315	-1.60	-36.9	-26.9
2398	315	-1.71	-39.4	-28.8
2399	15	-1.69	-39.0	-28.4
2400	15	-1.57	-36.1	-26.3
2401	30	-1.41	-32.5	-23.7
2402	30	-1.81	-41.7	-30.4
2403	60	-1.75	-40.3	-29.4
2404	75	-2.07	-47.6	-34.8
2405	45	-1.81	-41.7	-30.4
2406	45	-2.09	-48.1	-35.1
2407	30	-1.70	-39.0	-28.5
2408	45	-1.02	-23.4	-17.1
2409	180	-.63	-14.6	-10.6
2410	45	-.66	-15.2	-11.1
2411	165	-.97	-22.4	-16.3
2412	165	-1.23	-28.2	-20.6
2413	150	-1.42	-32.8	-23.9
2414	150	-1.29	-29.8	-21.7
2415	30	-1.30	-30.0	-21.9
2416	150	-1.00	-23.0	-16.8
2417	270	-.56	-13.0	-9.5
2418	90	-.37	-8.4	-6.1
3101	285	-1.27	-29.3	-21.4
3102	315	-.99	-22.7	-16.6
3103	285	-.93	-21.5	-15.7
3104	285	-.94	-21.7	-15.8
3105	300	-.80	-18.5	-13.5
3106	300	-.85	-19.6	-14.3
3107	300	-.95	-21.9	-16.0
3108	120	-1.03	-23.7	-17.3
3109	315	-1.14	-26.2	-19.1
3110	120	-1.22	-28.1	-20.5
3111	300	-1.01	-23.2	-16.9
3112	210	-1.42	-32.7	-23.8
3113	285	-1.28	-29.5	-21.6
3114	315	-1.02	-23.5	-17.1
3115	195	-1.50	-34.5	-25.2
3116	285	-1.39	-32.0	-23.4
3117	120	-.92	-21.1	-15.4
3118	120	-.99	-22.8	-16.6
3119	285	-1.00	-23.0	-16.8
3120	120	-.90	-20.6	-15.1
3121	120	-1.08	-24.9	-18.2
3122	120	-.99	-22.8	-16.7
3123	120	-1.10	-25.3	-18.5
3124	285	-1.42	-32.7	-23.8
3125	285	-1.00	-23.0	-16.8
3126	285	-.93	-21.3	-15.6
3127	285	-.95	-21.7	-15.9
3128	300	-1.20	-27.5	-20.1
3129	300	-1.09	-25.1	-18.3
3130	285	-.86	-19.9	-14.5
3131	105	-1.07	-24.6	-18.0
3132	105	-.89	-20.4	-14.9
3133	120	-1.11	-25.6	-18.7
3134	120	-.87	-20.1	-14.7
3135	315	-1.08	-24.9	-18.2
3136	315	-.98	-22.5	-16.5
3137	195	-1.38	-31.7	-23.1
3138	195	-1.34	-30.8	-22.5
3139	210	-1.32	-30.4	-22.2
3140	285	-1.08	-24.9	-18.2
3141	285	-1.12	-25.8	-18.8
3142	300	-1.22	-28.1	-20.5
3143	300	-.94	-21.6	-15.8
3144	120	-.87	-20.1	-14.7
3145	315	-.92	-21.2	-15.4
3146	195	-1.27	-29.3	-21.4
3147	285	-1.18	-27.0	-19.7
3148	285	-.93	-21.5	-15.7
3149	285	-1.01	-23.3	-17.0
3150	315	-1.01	-23.2	-17.0
3151	210	-1.38	-31.7	-23.1
3152	210	-1.44	-33.1	-24.2
3153	135	-1.59	-36.5	-26.7
3154	285	-1.36	-31.4	-22.9
3155	285	-1.40	-32.3	-23.6
3156	285	-1.17	-26.8	-19.6
3157	300	-1.13	-26.0	-19.0
3158	120	-1.38	-31.8	-23.2
3159	210	-1.48	-34.0	-24.8
3160	210	-1.58	-36.2	-26.5
3161	195	-1.54	-35.4	-25.9
3162	195	-1.39	-32.0	-23.4
3163	285	-1.24	-28.6	-20.9
3164	285	-1.27	-29.2	-21.3
3165	285	-1.12	-25.8	-18.8
3166	315	-1.32	-30.4	-22.2
3167	105	-1.07	-24.6	-17.9
3168	300	-.99	-22.7	-16.6
3169	120	-.99	-22.8	-16.6
3170	300	-1.05	-24.2	-17.7
3171	120	-1.31	-30.1	-22.0
3172	120	-1.32	-30.4	-22.2
3173	285	-1.02	-23.4	-17.1
3174	120	-1.44	-33.2	-24.2
3175	195	-1.25	-28.8	-21.0
3176	285	-1.25	-28.7	-21.0
3177	285	-1.03	-23.6	-17.3
3178	300	-1.08	-24.9	-18.2
3179	120	-1.22	-28.1	-20.5
3180	120	-1.56	-35.8	-26.1
3181	210	-1.53	-35.2	-25.7
3182	300	-1.47	-33.9	-24.8
3183	285	-1.46	-33.6	-24.6
3184	300	-1.18	-27.0	-19.7
3185	300	-1.26	-28.9	-21.1
3186	300	-1.28	-29.4	-21.4
3187	195	-1.38	-31.8	-23.2
3188	120	-1.41	-32.4	-23.6
3189	195	-1.65	-38.0	-27.8
3190	195	-1.63	-37.4	-27.3
3191	300	-1.47	-33.8	-24.7
3192	300	-1.66	-38.2	-27.9
3193	300	-1.02	-23.5	-17.2
3194	285	-1.06	-24.4	-17.8
3195	300	-1.05	-24.1	-17.6
3196	120	-1.06	-24.3	-17.7
3197	120	-1.14	-26.2	-19.1
3198	120	-1.16	-26.6	-19.4
3199	135	-1.49	-34.4	-25.1
3200	195	-1.57	-36.0	-26.3
3201	330	-1.47	-33.9	-24.8
3202	330	-1.52	-34.9	-25.5
3203	330	-1.66	-38.1	-27.8
3204	105	-1.34	-30.7	-22.4
3205	120	-1.50	-34.6	-25.2
3206	120	-1.47	-33.9	-24.7
3207	195	-1.40	-32.2	-23.5
3208	330	-1.38	-31.7	-23.1
3209	345	-1.62	-37.3	-27.2
3210	345	-1.69	-39.0	-28.4
3211	90	-1.86	-42.7	-31.2
3212	195	-1.48	-33.9	-24.8
3213	210	-2.08	-47.9	-35.0

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
MOST NEGATIVE VALUE OF CPMIN FOR ALL WIND DIR S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
3214	345	-1.65	-38.1	-27.8
3215	210	-1.98	-45.5	-33.2
3216	315	-1.84	-42.2	-30.8
3217	300	-1.72	-39.5	-28.8
3218	330	-1.91	-44.0	-32.1
3219	300	-1.60	-36.7	-26.8
3220	300	-1.80	-41.5	-30.3
3221	330	-1.36	-31.2	-22.8
3222	300	-1.12	-25.7	-18.8
3223	315	-1.01	-23.2	-16.9
3224	75	-1.38	-31.8	-23.2
3225	105	-1.95	-44.7	-32.7
3226	105	-1.71	-39.4	-28.8
3227	90	-1.59	-36.5	-26.7
3228	90	-1.55	-35.7	-26.1
3229	195	-1.92	-44.1	-32.2
3230	195	-1.72	-39.5	-28.8
3231	195	-1.74	-39.9	-29.2
3232	345	-1.48	-34.1	-24.9
3233	315	-2.09	-48.2	-35.2
3234	90	-1.58	-36.3	-26.5
3235	90	-1.58	-36.2	-26.5
3236	90	-1.57	-36.0	-26.3
3237	315	-1.54	-35.5	-25.9
3238	330	-1.43	-32.9	-24.0
3239	330	-1.57	-36.0	-26.3
3240	315	-1.80	-41.5	-30.3
3241	30	-1.54	-35.3	-25.8
3242	30	-1.52	-34.9	-25.5
3243	345	-1.19	-27.4	-20.0
3244	345	-1.32	-30.3	-22.1
3245	345	-1.24	-28.6	-20.9
3246	315	-1.08	-24.9	-18.2
3247	330	-.80	-18.5	-13.5
3248	75	-.56	-13.0	-9.5
3249	345	-.56	-12.8	-9.4
3250	90	-.62	-14.3	-10.4
3251	75	-.58	-13.3	-9.7
3252	75	-1.16	-26.6	-19.4
3253	240	-1.31	-30.2	-22.0
3254	150	-.99	-22.8	-16.6
3255	240	-.92	-21.2	-15.5
3256	255	-.46	-10.5	-7.7
3257	150	-.53	-12.1	-8.8
3258	45	-.31	-7.1	-5.2
3259	270	-.65	-15.0	-10.9
3260	45	-.68	-15.5	-11.3
3261	15	-.40	-9.3	-6.8
3262	75	-.59	-13.7	-10.0
3263	15	-.57	-13.0	-9.5
3264	240	-.76	-17.5	-12.8
3265	270	-.78	-17.9	-13.0
3266	30	-.33	-7.5	-5.5
3267	45	-.27	-6.3	-4.6
4301	195	-1.63	-37.4	-27.3
4302	195	-.93	-21.3	-15.5
4303	195	-1.02	-23.5	-17.1
4304	195	-.91	-20.8	-15.2
4305	30	-1.08	-24.8	-18.1
4306	30	-.84	-19.4	-14.2
4307	45	-1.06	-24.4	-17.8
4308	30	-1.06	-24.3	-17.7
4309	30	-1.25	-28.8	-21.0
4310	30	-1.93	-44.4	-32.4
4311	195	-1.98	-45.6	-33.3
4312	105	-1.57	-36.1	-26.4
4313	195	-1.05	-24.2	-17.6
4314	45	-1.49	-34.3	-25.0
4315	195	-1.88	-43.2	-31.5
4316	195	-1.66	-38.2	-27.9
4317	195	-1.51	-34.7	-25.3
4318	195	-1.23	-28.2	-20.6
4319	195	-1.20	-27.6	-20.2
4320	180	-1.29	-29.7	-21.7
4321	30	-.98	-22.6	-16.5
4322	195	-1.14	-26.1	-19.1
4323	195	-1.23	-28.2	-20.6
4324	195	-1.04	-23.9	-17.4
4325	195	-1.15	-26.5	-19.3
4326	30	-.92	-21.2	-15.5
4327	30	-.90	-20.7	-15.1
4328	195	-1.05	-24.2	-17.7
4329	30	-1.29	-29.7	-21.7
4330	30	-1.08	-24.8	-18.1
4331	30	-.99	-22.7	-16.6
4332	30	-1.31	-30.2	-22.1
4333	30	-1.35	-31.0	-22.6
4334	30	-1.47	-33.8	-24.7
4335	30	-1.23	-28.4	-20.7
4336	30	-1.11	-25.6	-18.7
4337	45	-1.51	-34.8	-25.4
4338	30	-1.13	-26.1	-19.0
4339	30	-1.15	-26.4	-19.3
4340	45	-1.13	-26.1	-19.0
4341	45	-1.71	-39.2	-28.6
4342	45	-1.51	-34.8	-25.4
4343	195	-1.55	-35.7	-26.1
4344	120	-1.48	-34.1	-24.9
4345	210	-1.09	-25.1	-18.3
4346	120	-1.62	-37.2	-27.2
4347	120	-1.94	-44.5	-32.5
4348	225	-1.07	-24.7	-18.0
4349	120	-2.06	-47.3	-34.5
4350	195	-1.34	-30.8	-22.5
4351	195	-1.18	-27.1	-19.8
4352	195	-1.00	-23.1	-16.9
4353	210	-1.15	-26.5	-19.3
4354	30	-1.19	-27.3	-19.9
4355	45	-1.35	-31.1	-22.7
4356	45	-1.41	-32.3	-23.6
4357	45	-1.32	-30.3	-22.1
4358	120	-1.60	-36.7	-26.8
4359	195	-1.13	-25.9	-18.9
4360	120	-1.51	-34.7	-25.3
4361	120	-1.68	-38.5	-28.1
4362	120	-1.66	-38.1	-27.8
4363	210	-1.16	-26.7	-19.5
4364	210	-1.75	-40.3	-29.4
4365	210	-1.63	-37.6	-27.4
4366	210	-1.43	-33.0	-24.1
4367	120	-1.48	-34.0	-24.8
4368	195	-1.19	-27.5	-20.1
4369	195	-1.23	-28.4	-20.7
4370	195	-1.32	-30.4	-22.2
4371	0	-1.35	-31.0	-22.6
4372	15	-1.15	-26.3	-19.2
4373	30	-1.42	-32.7	-23.9
4374	30	-1.68	-38.7	-28.3
4375	30	-1.45	-33.2	-24.3
4376	30	-1.87	-43.0	-31.4
4377	90	-1.71	-39.4	-28.7
4378	105	-1.82	-41.8	-30.5
4379	240	-1.46	-33.6	-24.5
4380	90	-1.85	-42.5	-31.0
4381	210	-1.87	-43.0	-31.4
4382	210	-1.73	-39.8	-29.0
4383	105	-1.93	-44.4	-32.4
4384	105	-2.12	-48.8	-35.7
4385	225	-1.30	-29.9	-21.8
4386	195	-1.24	-28.5	-20.8
4387	195	-1.42	-32.8	-23.9
4388	195	-1.88	-43.3	-31.6
4389	195	-1.27	-29.3	-21.4
4390	15	-1.09	-25.0	-18.2
4391	30	-1.16	-26.6	-19.4
4392	30	-1.48	-34.1	-24.9
4393	30	-1.70	-39.0	-28.5
4394	30	-1.51	-34.7	-25.3
4395	30	-1.31	-30.2	-22.0
4396	30	-2.16	-49.7	-36.3

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF CPMAX FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
110	15	.88	20.3	14.8	1111	45	1.14	26.2	19.1	1161	75	1.03	23.7	17.3
111	60	1.30	29.9	21.8	1112	345	1.17	26.8	19.6	1162	45	1.02	23.5	17.2
112	15	1.20	27.5	20.1	1113	60	1.07	24.6	18.0	1163	45	1.09	25.0	18.2
130	255	.86	19.7	14.4	1114	0	1.13	25.9	18.9	1164	45	1.07	24.5	17.9
140	105	.97	22.4	16.3	1115	345	1.23	28.3	20.7	1165	45	1.19	27.3	19.9
141	90	1.05	24.1	17.6	1116	75	1.08	24.7	18.1	1166	30	1.18	27.3	19.9
142	105	1.12	25.9	18.9	1117	15	1.10	25.3	18.5	1167	15	1.16	26.7	19.5
143	90	1.23	28.3	20.6	1118	30	1.10	25.3	18.4	1168	15	1.09	25.0	18.3
144	105	1.24	28.6	20.9	1119	15	1.18	27.2	19.8	1169	15	1.11	25.5	18.6
145	105	1.16	26.6	19.4	1120	15	1.21	27.8	20.3	1170	15	1.10	25.4	18.5
220	315	1.24	28.6	20.9	1121	15	1.18	27.2	19.9	1171	345	1.07	24.6	18.0
221	255	1.28	29.4	21.5	1122	15	1.19	27.3	19.9	1172	345	1.05	24.1	17.6
230	255	1.14	26.1	19.1	1123	15	1.25	28.8	21.0	1173	45	1.18	27.1	19.8
231	165	.85	19.6	14.3	1124	75	1.22	28.0	20.5	1174	0	1.06	24.4	17.8
310	75	.90	20.6	15.0	1125	60	1.04	23.9	17.4	1175	60	.95	22.0	16.0
320	315	.91	20.9	15.2	1126	30	1.10	25.3	18.4	1176	60	1.03	23.6	17.3
321	285	.90	20.6	15.1	1127	30	1.10	25.2	18.4	1177	30	1.00	22.9	16.7
322	315	1.10	25.2	18.4	1128	15	1.09	25.1	18.3	1178	30	1.01	23.2	16.9
323	255	1.20	27.7	20.2	1129	30	1.13	26.0	19.0	1179	345	1.24	28.6	20.8
324	315	1.20	27.7	20.2	1130	30	1.11	25.5	18.6	1180	345	.94	21.7	15.8
325	255	1.12	25.7	18.8	1131	30	1.09	25.0	18.3	1181	345	.98	22.5	16.5
330	210	.90	20.8	15.1	1132	60	1.17	26.9	19.7	1182	45	1.05	24.2	17.7
331	240	1.24	28.6	20.8	1133	0	1.03	23.8	17.4	1183	45	1.00	23.0	16.8
332	165	1.25	28.8	21.0	1134	0	1.09	25.0	18.3	1184	0	1.23	28.2	20.6
410	60	1.31	30.1	22.0	1135	0	1.09	25.1	18.3	1185	45	1.10	25.4	18.6
411	345	1.02	23.5	17.2	1136	0	1.11	25.5	18.6	1186	345	1.08	25.0	18.2
440	135	1.07	24.5	17.9	1137	315	1.23	28.2	20.6	1187	345	1.02	23.5	17.2
441	105	1.19	27.3	20.0	1138	0	1.13	26.0	18.9	1188	345	1.00	23.0	16.8
901	225	.61	14.0	10.2	1139	60	1.24	28.5	20.8	1189	30	.80	18.3	13.4
902	240	.56	12.9	9.4	1140	45	1.21	27.9	20.4	1190	75	.81	18.7	13.6
903	180	.51	11.6	8.5	1141	45	1.22	28.1	20.5	1191	45	.95	21.9	16.0
904	240	.65	14.9	10.9	1142	30	1.18	27.3	19.9	1192	45	.98	22.6	16.5
905	240	.44	10.2	7.4	1143	45	1.19	27.5	20.0	1193	15	1.02	23.4	17.1
906	315	.55	12.5	9.2	1144	0	1.17	27.0	19.7	1194	15	1.07	24.7	18.0
907	285	.38	8.8	6.4	1145	345	1.18	27.2	19.9	1195	15	1.09	25.1	18.4
908	45	.81	18.7	13.6	1146	45	1.17	26.8	19.6	1196	15	1.07	24.6	18.0
909	180	.32	7.3	5.3	1147	45	1.16	26.7	19.5	1197	15	1.07	24.6	18.0
910	180	.29	6.6	4.9	1148	45	1.14	26.2	19.1	1198	15	1.01	23.2	16.9
911	75	.30	6.8	5.0	1149	45	1.17	26.9	19.6	1199	345	.91	21.0	15.3
912	255	.19	4.3	3.2	1150	345	1.08	25.0	18.2	1200	90	.80	18.3	13.4
1101	60	1.07	24.6	18.0	1151	345	1.11	25.6	18.7	1201	45	.79	18.2	13.3
1102	330	1.04	23.9	17.4	1152	345	1.11	25.6	18.7	1202	45	.85	19.6	14.3
1103	15	1.00	23.1	16.8	1153	330	1.17	26.9	19.6	1203	30	.83	19.1	14.0
1104	60	.98	22.6	16.5	1154	60	1.06	24.5	17.9	1204	0	.86	19.9	14.5
1105	60	1.06	24.4	17.8	1155	60	1.08	24.9	18.2	1205	0	1.08	24.7	18.1
1106	60	1.21	27.8	20.3	1156	0	1.12	25.8	18.8	1206	0	1.03	23.6	17.2
1107	15	1.16	26.8	19.5	1157	45	1.10	25.3	18.5	1207	45	.64	14.7	10.7
1108	15	1.07	24.6	18.0	1158	0	1.18	27.1	19.8	1208	30	.61	14.1	10.3
1109	15	1.27	29.1	21.3	1159	0	1.14	26.2	19.1	1209	45	.98	22.5	16.4
1110	345	1.16	26.7	19.5	1160	0	1.10	25.4	18.5	1210	45	.95	21.9	16.0

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
MOST NEGATIVE VALUE OF CPMIN FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
4397	30	-2.58	-59.4	-43.3	4408	240	-.83	-19.0	-13.9	4419	255	-.60	-13.9	-10.1
4398	30	-2.48	-57.0	-41.6	4409	240	-.92	-21.1	-15.4	4420	255	-.57	-13.1	-9.6
4399	90	-1.48	-34.1	-24.9	4410	0	-1.22	-27.9	-20.4	4421	255	-.85	-19.7	-14.3
4400	105	-1.49	-34.3	-25.1	4411	0	-1.25	-28.7	-20.9	4422	345	-.70	-16.0	-11.7
4401	240	-1.32	-30.4	-22.2	4412	0	-1.32	-30.3	-22.2	4423	345	-.79	-18.2	-13.3
4402	30	-1.53	-35.3	-25.8	4413	30	-1.38	-31.8	-23.2	4424	345	-.72	-16.6	-12.1
4403	30	-1.53	-35.2	-25.7	4414	135	-1.52	-34.9	-25.4	9901	270	-.38	-8.7	-6.3
4404	240	-1.22	-28.0	-20.4	4415	240	-1.34	-30.8	-22.5	9902	270	-.49	-11.4	-8.3
4405	15	-1.16	-26.6	-19.4	4416	330	-2.07	-47.7	-34.8	9903	270	-.42	-9.7	-7.1
4406	240	-.86	-19.8	-14.5	4417	255	-1.28	-29.5	-21.5	9904	300	-.58	-13.3	-9.7
4407	240	-.89	-20.5	-14.9	4418	15	-1.03	-23.6	-17.2	9905	135	-.54	-12.5	-9.1

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF CPMAX FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
1211	0	.95	21.8	15.9
1212	0	.84	19.2	14.0
1213	0	.83	19.0	13.9
1214	30	.82	18.8	13.8
1215	0	.86	19.9	14.5
1216	45	.86	19.7	14.4
1217	90	.70	16.1	11.8
1218	30	.79	18.2	13.3
1219	15	.88	20.3	14.8
1220	30	.73	16.7	12.2
1221	30	.86	19.9	14.5
1222	30	.86	19.8	14.5
1223	0	.90	20.7	15.1
1224	15	.84	19.3	14.1
1225	15	.93	21.4	15.6
1226	15	.90	20.6	15.0
1227	15	1.01	23.2	16.9
1228	15	.90	20.8	15.2
1229	0	.80	18.5	13.5
1230	30	.56	12.8	9.3
1231	90	.56	12.9	9.4
1232	45	.69	16.0	11.7
1233	30	.83	19.1	14.0
1234	345	.79	18.2	13.3
1235	0	.77	17.7	12.9
1236	0	.74	17.0	12.4
1237	90	.50	11.5	8.4
1238	90	.54	12.4	9.0
1239	30	.65	15.0	11.0
1240	30	.64	14.7	10.7
1241	0	.60	13.8	10.1
1242	0	.54	12.3	9.0
1243	90	.52	11.9	8.7
1244	90	.52	11.9	8.7
1245	30	.61	14.1	10.3
1246	30	.75	17.3	12.7
1247	30	.79	18.1	13.2
1248	0	.79	18.2	13.3
1249	15	.78	17.8	13.0
1250	15	.73	16.7	12.2
1251	15	.73	16.7	12.2
1252	15	.69	15.9	11.6
1253	0	.67	15.3	11.2
1254	105	.42	9.7	7.1
1255	30	.36	8.3	6.1
1256	45	.51	11.8	8.6
1257	30	.30	6.9	5.0
1258	60	.20	4.6	3.3
1259	300	.33	7.7	5.6
1260	315	.50	11.6	8.5
1261	0	.90	20.6	15.1
1262	0	.68	15.7	11.4
1263	0	.73	16.7	12.2
1264	315	.46	10.5	7.7
1265	255	.52	11.9	8.7
1266	105	.29	6.6	4.9
1267	45	.21	4.7	3.4
1901	330	.61	14.1	10.3
1902	60	.47	10.9	8.0
1903	345	.49	11.4	8.3
1904	30	.76	17.5	12.8
1905	15	.46	10.5	7.7
1906	105	.43	9.8	7.1
1907	90	.53	12.1	8.8
1908	225	.79	18.2	13.3
1909	30	.35	8.1	5.9
1910	75	.26	6.1	4.4
1911	0	.26	5.9	4.3
1912	270	.20	4.5	3.3
2301	345	1.18	27.1	19.8
2302	315	1.07	24.6	17.9
2303	315	1.06	24.3	17.7
2304	330	1.01	23.2	16.9
2305	315	.94	21.7	15.8
2306	315	.92	21.2	15.5
2307	300	.90	20.7	15.1
2308	300	1.00	23.0	16.8
2309	330	1.08	24.9	18.2
2310	255	1.24	28.5	20.8
2311	330	1.38	31.7	23.2
2312	315	1.34	30.7	22.4
2313	315	1.17	26.9	19.6
2314	255	1.16	26.7	19.5
2315	330	1.19	27.5	20.0
2316	330	1.23	28.2	20.6
2317	330	1.14	26.3	19.2
2318	330	1.12	25.7	18.8
2319	330	1.10	25.2	18.4
2320	330	1.08	24.8	18.1
2321	315	1.06	24.3	17.7
2322	315	1.03	23.7	17.3
2323	315	1.06	24.3	17.8
2324	315	1.08	24.9	18.1
2325	315	1.06	24.3	17.8
2326	330	1.15	26.4	19.3
2327	330	1.24	28.5	20.8
2328	330	1.22	28.1	20.5
2329	300	1.06	24.5	17.9
2330	315	1.17	26.9	19.6
2331	300	1.17	26.8	19.6
2332	255	1.13	25.9	18.9
2333	300	1.13	26.0	19.0
2334	300	1.02	23.4	17.1
2335	300	1.05	24.2	17.6
2336	315	1.11	25.5	18.6
2337	255	1.16	26.6	19.4
2338	270	1.09	25.0	18.3
2339	270	1.08	24.9	18.2
2340	315	1.03	23.7	17.3
2341	255	1.06	24.3	17.7
2342	255	1.30	29.9	21.9
2343	330	1.13	26.1	19.1
2344	330	1.13	26.0	19.0
2345	315	1.18	27.1	19.8
2346	330	1.20	27.5	20.1
2347	315	1.09	25.0	18.3
2348	330	1.15	26.5	19.3
2349	330	1.08	24.8	18.1
2350	330	1.17	26.9	19.6
2351	315	1.18	27.1	19.8
2352	315	1.15	26.5	19.3
2353	285	1.01	23.3	17.0
2354	285	1.03	23.7	17.3
2355	255	1.10	25.3	18.5
2356	255	1.08	24.8	18.1
2357	315	1.03	23.7	17.3
2358	255	1.08	24.9	18.2
2359	315	1.01	23.1	16.9
2360	255	1.12	25.8	18.9
2361	345	.99	22.8	16.7
2362	330	1.21	27.8	20.3
2363	315	1.10	25.3	18.5
2364	330	1.09	25.1	18.3
2365	330	1.04	24.0	17.5
2366	330	.92	21.2	15.5
2367	330	.97	22.3	16.3
2368	330	.74	17.0	12.4
2369	330	.84	19.3	14.1
2370	315	.89	20.6	15.0
2371	315	.82	18.9	13.8
2372	285	.91	20.9	15.3
2373	285	.96	22.2	16.2
2374	255	1.02	23.4	17.1
2375	255	1.06	24.3	17.7
2376	240	1.06	24.4	17.8
2377	330	.77	17.7	12.9
2378	330	.79	18.2	13.3
2379	315	.74	17.1	12.5
2380	330	.58	13.3	9.7
2381	330	.54	12.5	9.1

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF CPMAX FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
2382	315	.63	14.5	10.6
2383	345	.65	15.0	10.9
2384	345	.58	13.4	9.8
2385	270	.58	13.4	9.8
2386	285	.66	15.3	11.2
2387	315	.50	11.6	8.4
2388	315	.45	10.4	7.6
2389	315	.51	11.8	8.6
2390	315	.59	13.5	9.9
2391	270	.71	16.3	11.9
2392	300	.68	15.7	11.5
2393	270	.68	15.6	11.4
2394	315	.72	16.7	12.2
2395	255	.81	18.6	13.6
2396	270	.90	20.8	15.2
2397	270	.83	19.0	13.9
2398	270	.80	18.4	13.5
2399	330	.41	9.5	7.0
2400	0	.48	11.1	8.1
2401	270	.50	11.5	8.4
2402	330	.53	12.3	8.9
2403	0	.41	9.4	6.8
2404	255	.46	10.5	7.7
2405	0	.34	7.7	5.6
2406	255	.47	10.7	7.8
2407	315	.51	11.7	8.6
2408	315	.60	13.8	10.1
2409	315	.68	15.7	11.5
2410	315	.77	17.8	13.0
2411	255	.61	14.0	10.2
2412	255	.61	14.0	10.3
2413	255	.63	14.5	10.6
2414	270	.50	11.4	8.3
2415	270	.43	9.9	7.2
2416	255	.49	11.3	8.2
2417	165	.29	6.7	4.9
2418	255	.44	10.1	7.4
3101	240	1.21	27.8	20.3
3102	225	1.24	28.4	20.7
3103	225	1.22	28.1	20.5
3104	225	1.18	27.1	19.8
3105	180	1.15	26.4	19.3
3106	180	1.06	24.5	17.9
3107	225	1.15	26.4	19.3
3108	180	1.09	25.0	18.3
3109	195	1.23	28.3	20.6
3110	195	1.23	28.2	20.6
3111	225	1.08	25.0	18.2
3112	165	1.19	27.3	20.0
3113	240	1.21	27.8	20.3
3114	180	1.26	28.9	21.1
3115	180	1.20	27.5	20.1
3116	255	1.11	25.5	18.6
3117	180	1.17	26.9	19.6
3118	195	1.19	27.5	20.1
3119	195	1.33	30.6	22.4
3120	195	1.24	28.4	20.8
3121	180	1.25	28.8	21.0
3122	180	1.30	29.8	21.7
3123	180	1.21	27.7	20.3
3124	240	1.11	25.4	18.6
3125	240	1.15	26.4	19.3
3126	240	1.14	26.2	19.1
3127	195	1.06	24.4	17.8
3128	195	1.11	25.5	18.6
3129	210	1.13	26.0	19.0
3130	195	1.15	26.5	19.4
3131	195	1.15	26.5	19.3
3132	195	1.14	26.2	19.1
3133	195	1.21	27.7	20.2
3134	195	1.23	28.3	20.6
3135	195	1.23	28.2	20.6
3136	180	1.16	26.7	19.5
3137	165	1.24	28.6	20.8
3138	165	1.25	28.8	21.0
3139	240	1.10	25.4	18.5
3140	240	1.16	26.8	19.5
3141	240	1.29	29.6	21.6
3142	240	1.23	28.4	20.7
3143	240	1.19	27.4	20.0
3144	165	1.19	27.4	20.0
3145	165	1.12	25.8	18.8
3146	240	1.10	25.3	18.4
3147	240	1.10	25.3	18.5
3148	240	1.13	26.1	19.0
3149	240	1.13	26.1	19.1
3150	165	1.05	24.1	17.6
3151	165	1.22	28.1	20.5
3152	165	1.22	28.0	20.5
3153	150	1.13	25.9	18.9
3154	240	1.07	24.6	17.9
3155	240	1.14	26.1	19.1
3156	240	1.07	24.5	17.9
3157	240	1.03	23.7	17.3
3158	195	1.07	24.7	18.0
3159	165	1.13	25.9	18.9
3160	165	1.14	26.2	19.1
3161	240	1.09	25.0	18.3
3162	240	1.09	25.0	18.2
3163	240	1.05	24.2	17.7
3164	255	1.05	24.0	17.6
3165	195	1.11	25.5	18.6
3166	195	1.02	23.4	17.1
3167	180	1.06	24.3	17.8
3168	180	1.11	25.4	18.6
3169	195	1.11	25.5	18.6
3170	195	1.07	24.7	18.0
3171	165	1.11	25.5	18.6
3172	165	1.09	25.0	18.3
3173	240	.91	21.0	15.3
3174	165	1.40	32.3	23.6
3175	240	.96	22.1	16.1
3176	240	.98	22.6	16.5
3177	255	.89	20.4	14.9
3178	240	.90	20.8	15.2
3179	180	.96	22.1	16.1
3180	165	.99	22.8	16.7
3181	165	1.06	24.4	17.8
3182	240	.91	20.9	15.3
3183	240	.88	20.2	14.7
3184	240	.81	18.7	13.6
3185	255	.94	21.6	15.8
3186	165	1.08	24.7	18.1
3187	165	1.16	26.6	19.4
3188	165	1.09	25.0	18.3
3189	255	.84	19.4	14.1
3190	255	.85	19.6	14.3
3191	195	.75	17.3	12.6
3192	240	.76	17.5	12.8
3193	195	.83	19.1	14.0
3194	165	.95	21.8	15.9
3195	195	.90	20.8	15.2
3196	195	.95	21.8	15.9
3197	195	.93	21.3	15.5
3198	180	.90	20.6	15.1
3199	165	.98	22.4	16.4
3200	255	.86	19.7	14.4
3201	255	.80	18.5	13.5
3202	180	.78	17.8	13.0
3203	180	.82	18.9	13.8
3204	165	1.08	24.8	18.1
3205	165	.91	20.8	15.2
3206	165	.91	20.8	15.2
3207	255	.77	17.7	12.9
3208	255	.73	16.8	12.3
3209	240	.76	17.6	12.8
3210	240	.78	17.8	13.0
3211	165	.81	18.6	13.6
3212	165	.85	19.5	14.2
3213	165	.92	21.2	15.5

TABLE 6 -- CLADDING AND GLASS LOADS-- A -- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF CPMAX FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
3214	195	.74	17.0	12.4
3215	165	.94	21.6	15.8
3216	255	.89	20.5	15.0
3217	255	.76	17.5	12.8
3218	210	.72	16.5	12.0
3219	195	.74	17.1	12.5
3220	195	.68	15.6	11.4
3221	195	.84	19.3	14.1
3222	195	.70	16.1	11.8
3223	195	.69	16.0	11.6
3224	165	.77	17.7	12.9
3225	180	.73	16.8	12.3
3226	195	.80	18.5	13.5
3227	180	.79	18.2	13.3
3228	180	.81	18.7	13.6
3229	165	.89	20.6	15.0
3230	255	.75	17.3	12.6
3231	255	.84	19.4	14.2
3232	240	.72	16.5	12.1
3233	255	.72	16.5	12.0
3234	180	.44	10.1	7.4
3235	165	.56	13.0	9.5
3236	165	.54	12.4	9.1
3237	255	.61	14.1	10.3
3238	255	.63	14.4	10.5
3239	240	.61	14.0	10.2
3240	240	.62	14.3	10.4
3241	120	.35	8.1	5.9
3242	165	.18	4.1	3.0
3243	195	.58	13.4	9.8
3244	195	.59	13.5	9.9
3245	225	.61	14.0	10.2
3246	225	.62	14.3	10.4
3247	240	.60	13.8	10.1
3248	315	.59	13.5	9.8
3249	315	.80	18.4	13.5
3250	180	.81	18.7	13.6
3251	90	.53	12.3	8.9
3252	315	.49	11.2	8.2
3253	330	.22	5.0	3.6
3254	270	.46	10.6	7.7
3255	105	.27	6.1	4.5
3256	90	.44	10.0	7.3
3257	270	.39	8.9	6.5
3258	315	.44	10.2	7.5
3259	105	.40	9.1	6.6
3260	195	.57	13.2	9.6
3261	195	.45	10.3	7.5
3262	45	.29	6.8	4.9
3263	195	.37	8.5	6.2
3264	75	.50	11.4	8.3
3265	90	.45	10.4	7.6
3266	180	.61	14.1	10.3
3267	315	.61	14.1	10.3
4301	165	1.30	29.9	21.8
4302	75	1.06	24.5	17.9
4303	90	1.00	23.1	16.8
4304	90	1.04	23.9	17.5
4305	90	.94	21.7	15.9
4306	90	1.15	26.4	19.3
4307	60	1.03	23.6	17.2
4308	90	1.12	25.8	18.8
4309	90	1.18	27.1	19.8
4310	75	1.18	27.2	19.8
4311	165	1.01	23.1	16.9
4312	150	1.16	26.6	19.4
4313	90	1.11	25.6	18.7
4314	75	1.19	27.4	20.0
4315	165	1.14	26.2	19.1
4316	165	1.08	24.7	18.1
4317	150	1.15	26.4	19.2
4318	165	1.09	25.0	18.3
4319	165	1.06	24.4	17.8
4320	165	1.06	24.5	17.9
4321	105	1.32	30.3	22.1
4322	120	1.06	24.3	17.7
4323	135	1.03	23.8	17.4
4324	120	1.09	25.1	18.3
4325	120	1.05	24.1	17.6
4326	105	1.24	28.5	20.8
4327	105	1.21	27.7	20.2
4328	105	1.14	26.3	19.2
4329	105	1.18	27.1	19.8
4330	105	1.14	26.3	19.2
4331	105	1.13	25.9	18.9
4332	90	1.26	29.0	21.2
4333	105	1.20	27.5	20.1
4334	105	1.10	25.3	18.5
4335	90	1.13	26.1	19.0
4336	105	1.13	26.1	19.0
4337	75	1.11	25.5	18.6
4338	75	1.34	30.8	22.5
4339	105	1.19	27.3	19.9
4340	90	1.21	27.9	20.3
4341	75	1.09	25.2	18.4
4342	90	1.13	25.9	18.9
4343	165	1.09	25.1	18.4
4344	165	1.10	25.4	18.5
4345	165	1.08	24.9	18.2
4346	165	1.03	23.8	17.4
4347	165	1.05	24.1	17.6
4348	135	.92	21.1	15.4
4349	165	1.13	26.0	19.0
4350	150	1.01	23.2	16.9
4351	165	1.03	23.6	17.2
4352	105	1.04	24.0	17.5
4353	105	1.01	23.3	17.0
4354	105	1.06	24.3	17.8
4355	105	1.18	27.1	19.8
4356	105	1.19	27.5	20.0
4357	90	1.13	26.0	19.0
4358	90	1.06	24.4	17.8
4359	150	1.07	24.5	17.9
4360	90	1.06	24.4	17.8
4361	165	1.02	23.4	17.1
4362	165	1.09	25.1	18.3
4363	165	.91	20.9	15.2
4364	165	.96	22.1	16.1
4365	180	.97	22.2	16.2
4366	120	1.02	23.5	17.1
4367	165	.88	20.3	14.8
4368	150	.86	19.8	14.5
4369	165	.90	20.6	15.0
4370	120	.86	19.8	14.4
4371	105	.95	21.8	15.9
4372	105	1.07	24.5	17.9
4373	105	1.27	29.2	21.3
4374	105	1.24	28.6	20.9
4375	90	1.00	23.1	16.8
4376	90	.93	21.5	15.7
4377	120	.87	19.9	14.5
4378	165	1.07	24.7	18.0
4379	150	.83	19.0	13.9
4380	180	.80	18.5	13.5
4381	165	.87	20.0	14.6
4382	150	.85	19.7	14.4
4383	150	.75	17.3	12.6
4384	165	.76	17.6	12.8
4385	150	.82	18.9	13.8
4386	150	.81	18.7	13.6
4387	165	.78	18.1	13.2
4388	165	.77	17.8	13.0
4389	150	.78	17.8	13.0
4390	150	.68	15.7	11.4
4391	135	.69	16.0	11.7
4392	90	.76	17.4	12.7
4393	90	.78	17.8	13.0
4394	90	.80	18.4	13.4
4395	90	.67	15.4	11.3
4396	90	.85	19.5	14.2

TABLE 6 -- CLADDING AND GLASS LOADS-- PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
LARGEST VALUE OF CPMAX FOR ALL WIND DIR.S, PEAK LOAD AND GLASS LOAD (1 MINUTE EQUIVALENT)
REFERENCE PRESSURE = 23 PSF GLASS LOAD FACTOR= .730
50-YR. RECURRENCE WIND

TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	PEAK LOAD (PSF)	GLASS LOAD (PSF)
4397	90	.81	18.7	13.6	4408	135	.55	12.6	9.2	4419	105	.89	20.4	14.9
4398	90	.80	18.3	13.4	4409	165	.47	10.8	7.9	4420	105	.74	17.0	12.4
4399	150	.71	16.2	11.8	4410	165	.48	10.9	8.0	4421	105	.84	19.2	14.1
4400	150	.66	15.2	11.1	4411	75	.58	13.4	9.7	4422	105	.78	17.8	13.0
4401	135	.74	17.1	12.5	4412	75	.69	15.9	11.6	4423	105	.57	13.1	9.6
4402	135	.64	14.7	10.7	4413	165	.53	12.3	9.0	4424	105	.74	17.1	12.5
4403	150	.60	13.9	10.1	4414	75	.75	17.3	12.6	9901	90	.44	10.1	7.3
4404	135	.68	15.8	11.5	4415	135	.54	12.5	9.1	9902	105	.45	10.4	7.6
4405	165	.58	13.4	9.8	4416	75	.37	8.6	6.2	9903	90	.39	9.1	6.6
4406	135	.77	17.6	12.9	4417	135	.42	9.6	7.0	9904	105	.43	9.8	7.2
4407	150	.56	12.9	9.4	4418	120	.33	7.7	5.6	9905	75	.26	5.9	4.3

TABLE 7

INFLUENCE OF INTERNAL PRESSURE DUE TO STACK EFFECT

Assume: 1) Interior temperature of 70° F
2) 50-yr wind
3) Peak pressure coefficient = 1.8
4) Building vented to atmosphere at base

Outside Temp. ($^{\circ}$F)	ΔT ($^{\circ}$F)	ΔPT (psf)	50-yr Gradient Wind (mph)	50-yr Wind Pressure (psf)	Wind Pr. Plus ΔPT (psf)
70	0	0	99	41.4	41.4
60	10	0.9	98	40.6	41.5
50	20	1.7	95	38.1	39.8
40	30	2.6	93	36.5	39.1
30	40	3.4	86	31.2	34.6
20	50	4.3	75	23.8	28.1
10	60	5.2	60	15.2	20.4
0	70	6.0	41	7.1	13.1

ΔT = difference between inside and outside temperature.

ΔPT = internal pressure near top of building due to stack effect.

TABLE 8.

TOTAL FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

AZIMUTH	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X) (1000-FT-KIPS)	MOM(Y)	MOM(Z)
0	-19.0	-8.46	-1519.8	-678.3	15.92	-39.13	1.42	199.0	-489.2	17.8
15	-17.6	-2.21	-1410.6	-177.5	2.51	-36.78	1.21	31.4	-459.9	15.1
30	-16.2	.40	-1296.3	32.3	-.43	-33.84	-.79	-5.4	-423.1	-9.8
45	-17.9	5.25	-1433.0	420.5	-9.45	-38.39	-1.62	-118.1	-480.0	-20.2
60	-12.2	9.06	-981.4	726.3	-21.08	-27.02	-.58	-263.5	-337.9	-7.2
75	-10.3	12.53	-828.1	1004.3	-25.82	-22.76	.18	-322.9	-284.5	2.2
90	-8.65	17.16	-693.3	1375.5	-35.20	-18.10	1.15	-440.2	-226.3	14.4
105	-4.35	16.00	-348.4	1282.7	-32.88	-8.94	1.25	-411.2	-111.8	15.7
120	1.94	15.12	155.1	1211.6	-32.23	2.45	-.49	-403.0	30.6	-6.2
135	8.77	20.75	703.2	1662.7	-40.00	15.13	-1.74	-500.2	189.2	-21.7
150	14.53	22.67	1164.2	1816.8	-43.97	27.46	-1.02	-549.8	343.3	-12.8
165	18.51	18.13	1483.2	1453.3	-36.41	36.76	.26	-455.2	459.6	3.2
180	18.98	12.98	1521.1	1040.4	-26.90	38.41	.77	-336.3	480.3	9.6
195	12.52	3.52	1003.3	281.8	-7.76	25.92	.70	-97.0	324.2	8.7
210	7.17	-1.75	574.7	-140.3	2.83	15.43	-.46	35.4	192.9	-5.8
225	7.77	-4.56	622.5	-365.8	8.83	16.78	-.76	110.4	209.9	-9.5
240	15.08	-14.59	1208.9	-1169.4	28.35	31.91	-.67	354.5	399.0	-8.3
255	14.14	-20.27	1133.1	-1624.8	38.69	27.96	.16	483.7	349.6	1.9
270	10.87	-20.58	871.0	-1649.5	39.40	19.85	.85	492.7	248.2	10.6
285	6.38	-15.43	511.5	-1237.1	32.37	10.53	.91	404.8	131.7	11.4
300	.34	-15.26	27.5	-1223.2	32.20	1.04	-.49	402.6	13.1	-6.1
315	-7.12	-16.77	-571.0	-1343.9	34.18	-15.23	-1.10	427.4	-190.4	-13.8
330	-12.1	-15.25	-968.3	-1222.3	31.36	-27.12	-.43	392.1	-339.1	-5.4
345	-16.5	-12.81	-1322.1	-1026.6	25.06	-35.21	.53	313.4	-440.3	6.7

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50 YR. RECURRENCE WIND

WIND DIRECTION 0.
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.25	-.10	-20.0	-8.4	.01	-.02	.01	.092	-.220	.075
2	-.31	-.18	-24.7	-14.2	.04	-.07	.00	.469	-.817	.040
3	-.21	-.14	-16.5	-10.9	.04	-.07	.00	.550	-.831	.005
4	-.23	-.16	-18.1	-13.0	.07	-.09	-.00	.818	-1.141	-.019
5	-.25	-.19	-19.7	-14.9	.09	-.12	-.00	1.127	-1.492	-.044
6	-.26	-.20	-21.2	-16.2	.11	-.15	-.01	1.435	-1.882	-.072
7	-.28	-.22	-22.8	-17.5	.14	-.19	-.01	1.778	-2.313	-.099
8	-.31	-.22	-24.4	-18.0	.16	-.22	-.01	2.058	-2.790	-.080
9	-.33	-.22	-26.1	-17.9	.18	-.27	-.00	2.275	-3.317	-.020
10	-.35	-.22	-27.8	-17.8	.20	-.31	.00	2.488	-3.888	.039
11	-.37	-.22	-29.6	-17.6	.21	-.36	.01	2.675	-4.504	.114
12	-.39	-.22	-31.2	-17.3	.23	-.41	.02	2.857	-5.154	.200
13	-.41	-.21	-32.8	-17.0	.24	-.47	.02	3.031	-5.829	.286
14	-.42	-.21	-33.8	-16.8	.26	-.51	.03	3.197	-6.435	.377
15	-.43	-.21	-34.7	-16.8	.27	-.57	.04	3.415	-7.065	.463
16	-.44	-.20	-35.5	-16.1	.28	-.61	.04	3.483	-7.677	.441
17	-.45	-.20	-35.9	-16.1	.29	-.66	.03	3.681	-8.223	.427
18	-.45	-.20	-36.3	-16.1	.31	-.70	.03	3.888	-8.780	.414
19	-.46	-.20	-37.1	-16.2	.33	-.76	.04	4.110	-9.448	.440
20	-.47	-.20	-38.0	-16.2	.35	-.81	.04	4.335	-10.154	.471
21	-.48	-.20	-38.7	-16.3	.36	-.87	.04	4.549	-10.844	.504
22	-.49	-.20	-39.2	-16.3	.38	-.92	.04	4.760	-11.468	.547
23	-.49	-.20	-39.6	-16.2	.40	-.97	.05	4.946	-12.103	.588
24	-.50	-.20	-40.4	-15.9	.40	-1.03	.05	5.043	-12.852	.594
25	-.51	-.19	-41.3	-15.5	.41	-1.09	.05	5.136	-13.654	.589
26	-.53	-.19	-42.1	-15.3	.42	-1.16	.05	5.264	-14.477	.571
27	-.53	-.19	-42.8	-15.2	.43	-1.22	.05	5.408	-15.254	.581
28	-.54	-.19	-43.5	-15.0	.44	-1.28	.05	5.549	-16.041	.595
29	-.55	-.19	-44.0	-14.9	.46	-1.34	.05	5.694	-16.785	.619
30	-.55	-.19	-44.1	-15.2	.48	-1.39	.05	5.981	-17.387	.647
31	-.55	-.20	-44.2	-16.0	.52	-1.44	.05	6.502	-17.990	.668
32	-.55	-.21	-44.3	-17.0	.57	-1.49	.05	7.135	-18.597	.661
33	-.56	-.22	-44.7	-18.0	.62	-1.55	.05	7.795	-19.344	.657
34	-.57	-.23	-45.8	-18.1	.64	-1.63	.05	8.045	-20.396	.671
35	-.57	-.23	-46.1	-18.1	.66	-1.69	.06	8.278	-21.119	.721
36	-.58	-.23	-46.3	-18.4	.69	-1.74	.06	8.674	-21.601	.767
37	-.57	-.24	-45.3	-19.1	.74	-1.75	.08	9.259	-21.915	.990
38	-.55	-.23	-43.8	-18.5	.74	-1.74	.07	9.197	-21.745	.843
39	-.62	-.21	-49.8	-17.2	.70	-2.03	.04	8.754	-25.368	.522
40	-.57	-.20	-45.9	-15.9	.66	-1.92	.05	8.277	-23.955	.646
41	-.55	-.20	-44.3	-15.7	.67	-1.90	.04	8.414	-23.704	.525
42	-.47	-.20	-37.4	-15.7	.69	-1.64	.06	8.618	-20.460	.811

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 15
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.28	-.03	-22.7	-2.1	.00	-.02	.04	.023	-.250	.546
2	-.32	-.07	-25.8	-5.6	.01	-.07	.04	.185	-.852	.452
3	-.20	-.06	-16.4	-4.9	.02	-.07	.02	.247	-.825	.217
4	-.22	-.08	-17.4	-6.3	.03	-.09	.01	.399	-1.099	.171
5	-.23	-.10	-18.4	-7.7	.05	-.11	.01	.583	-1.399	.126
6	-.24	-.11	-19.5	-8.8	.06	-.14	.01	.777	-1.726	.083
7	-.26	-.12	-20.5	-9.8	.08	-.17	.00	.998	-2.079	.040
8	-.27	-.13	-21.7	-10.3	.09	-.20	.00	1.176	-2.478	.025
9	-.29	-.13	-23.2	-10.3	.10	-.24	.00	1.310	-2.941	.033
10	-.31	-.13	-24.6	-10.3	.12	-.28	.00	1.442	-3.441	.041
11	-.32	-.13	-25.6	-10.2	.12	-.31	.00	1.549	-3.904	.054
12	-.33	-.12	-26.3	-10.0	.13	-.35	.01	1.652	-4.346	.072
13	-.34	-.12	-27.0	-9.8	.14	-.38	.01	1.738	-4.807	.094
14	-.34	-.12	-27.6	-9.5	.14	-.42	.01	1.803	-5.257	.149
15	-.35	-.12	-28.1	-9.4	.15	-.46	.02	1.915	-5.721	.199
16	-.36	-.11	-29.1	-8.1	.14	-.50	.02	1.741	-6.288	.196
17	-.38	-.09	-30.8	-7.1	.13	-.56	.02	1.633	-7.051	.197
18	-.41	-.08	-32.5	-6.2	.12	-.63	.02	1.495	-7.858	.202
19	-.42	-.06	-33.5	-5.2	.11	-.68	.02	1.323	-8.516	.232
20	-.43	-.05	-34.3	-4.2	.09	-.73	.02	1.125	-9.166	.266
21	-.44	-.04	-35.1	-3.1	.07	-.79	.02	.880	-9.827	.306
22	-.45	-.03	-35.8	-2.1	.05	-.84	.03	.602	-10.487	.352
23	-.46	-.02	-36.6	-1.3	.03	-.89	.03	.385	-11.166	.395
24	-.47	-.01	-37.4	-1.2	.03	-.95	.03	.370	-11.901	.395
25	-.48	-.01	-38.3	-1.1	.03	-1.01	.03	.355	-12.669	.386
26	-.49	-.01	-39.2	-1.0	.03	-1.08	.03	.359	-13.459	.371
27	-.50	-.01	-39.8	-1.1	.03	-1.13	.03	.379	-14.166	.388
28	-.50	-.01	-40.3	-1.1	.03	-1.19	.03	.394	-14.875	.411
29	-.51	-.01	-40.7	-.9	.03	-1.24	.04	.339	-15.540	.443
30	-.51	-.01	-40.7	-.8	.02	-1.28	.04	.312	-16.058	.482
31	-.51	-.01	-40.7	-.8	.03	-1.33	.04	.331	-16.576	.524
32	-.51	-.01	-40.7	-.9	.03	-1.37	.04	.370	-17.095	.551
33	-.52	-.01	-41.6	-.9	.03	-1.44	.05	.411	-17.993	.575
34	-.54	-.01	-43.5	-.8	.03	-1.54	.05	.355	-19.281	.592
35	-.54	-.01	-43.5	-.5	.02	-1.60	.05	.296	-19.967	.636
36	-.54	-.01	-43.5	-.4	.02	-1.64	.06	.211	-20.557	.697
37	-.55	-.00	-44.4	-.2	.01	-1.72	.09	.108	-21.507	1.090
38	-.52	-.00	-41.5	-.2	.01	-1.66	.07	.094	-20.770	.827
39	-.60	-.00	-48.5	-.5	.01	-1.97	.03	.131	-24.623	.408
40	-.58	-.00	-46.5	-.3	.01	-1.94	.05	.169	-24.262	.687
41	-.57	-.01	-45.4	-1.0	.04	-1.94	.04	.521	-24.281	.439
42	-.52	-.02	-41.7	-1.7	.07	-1.83	.06	.923	-22.629	.791

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50 YR. RECURRENCE WIND

WIND DIRECTION 30
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.29	.02	-22.8	1.6	-.00	-.02	.07	-.018	-.251	.920
2	-.31	.03	-24.6	2.6	-.01	-.07	.05	-.087	-.813	.684
3	-.19	.02	-15.1	2.0	-.01	-.06	.02	-.099	-.761	.288
4	-.20	.03	-15.7	2.1	-.01	-.08	.02	-.133	-.992	.205
5	-.20	.03	-16.3	2.2	-.01	-.10	.01	-.165	-1.238	.121
6	-.21	.02	-16.9	2.0	-.01	-.12	.00	-.175	-1.499	.030
7	-.22	.02	-17.5	1.8	-.01	-.14	-.00	-.181	-1.776	-.061
8	-.23	.02	-18.6	1.6	-.01	-.17	-.01	-.179	-2.124	-.142
9	-.26	.02	-20.5	1.3	-.01	-.21	-.02	-.170	-2.597	-.208
10	-.28	.01	-22.3	1.1	-.01	-.25	-.02	-.155	-3.117	-.275
11	-.29	.01	-23.6	.9	-.01	-.29	-.03	-.137	-3.589	-.314
12	-.31	.01	-24.5	.7	-.01	-.32	-.03	-.113	-4.044	-.335
13	-.32	.01	-25.5	.6	-.01	-.36	-.03	-.099	-4.532	-.354
14	-.33	.01	-26.6	.5	-.01	-.41	-.03	-.100	-5.076	-.340
15	-.35	.01	-27.8	.5	-.01	-.45	-.03	-.092	-5.648	-.329
16	-.36	.00	-28.9	.4	-.01	-.50	-.03	-.084	-6.240	-.348
17	-.37	.01	-29.9	.7	-.01	-.55	-.03	-.154	-6.840	-.375
18	-.39	.01	-30.9	.9	-.02	-.60	-.03	-.207	-7.466	-.399
19	-.39	.01	-31.1	.9	-.02	-.63	-.03	-.225	-7.906	-.406
20	-.39	.01	-31.1	.9	-.02	-.67	-.03	-.243	-8.317	-.410
21	-.39	.01	-31.5	.9	-.02	-.70	-.03	-.246	-8.749	-.400
22	-.39	.01	-31.6	.8	-.02	-.74	-.03	-.244	-9.236	-.366
23	-.40	.01	-31.9	.8	-.02	-.78	-.03	-.232	-9.730	-.331
24	-.41	.01	-32.6	.6	-.02	-.83	-.03	-.196	-10.378	-.349
25	-.42	.01	-33.5	.5	-.01	-.89	-.03	-.156	-11.090	-.381
26	-.43	.01	-34.4	.4	-.01	-.95	-.03	-.150	-11.826	-.408
27	-.44	.01	-35.2	.4	-.01	-1.00	-.03	-.160	-12.542	-.402
28	-.45	.01	-36.0	.5	-.01	-1.06	-.03	-.171	-13.272	-.392
29	-.46	.01	-36.6	.5	-.02	-1.12	-.03	-.192	-13.977	-.384
30	-.46	.01	-36.9	.6	-.02	-1.17	-.03	-.220	-14.578	-.378
31	-.47	.01	-37.5	.5	-.02	-1.21	-.03	-.202	-15.187	-.371
32	-.47	.00	-37.6	.3	-.01	-1.26	-.03	-.116	-15.805	-.359
33	-.48	.00	-38.1	.1	-.00	-1.32	-.03	-.024	-16.484	-.376
34	-.50	-.00	-39.8	-.1	.00	-1.42	-.03	.043	-17.749	-.378
35	-.51	-.00	-40.6	-.2	.01	-1.49	-.03	.113	-18.615	-.348
36	-.51	-.00	-41.2	-.3	.01	-1.55	-.02	.164	-19.408	-.306
37	-.55	-.00	-44.1	-.4	.02	-1.71	.01	.195	-21.338	.123
38	-.50	-.00	-39.9	-.3	.01	-1.58	-.02	.126	-19.801	-.195
39	-.52	-.00	-41.6	-.0	.00	-1.70	-.05	.004	-21.214	-.613
40	-.53	.00	-42.2	.2	-.01	-1.76	-.02	-.126	-22.047	-.293
41	-.52	.01	-41.8	.6	-.03	-1.79	-.05	-.314	-22.356	-.579
42	-.52	.01	-41.9	.9	-.04	-1.83	-.02	-.516	-22.932	-.303

TABLE 8 .

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50 YR. RECURRENCE WIND

WIND DIRECTION 45
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.25	.09	-19.8	7.1	-.01	-.02	.12	-.078	-.218	1.557
2	-.27	.13	-21.5	10.1	-.03	-.06	.10	-.332	-.711	1.239
3	-.17	.09	-13.3	7.2	-.03	-.05	.05	-.362	-.668	.572
4	-.17	.10	-13.8	8.1	-.04	-.07	.04	-.511	-.874	.463
5	-.18	.11	-14.4	8.9	-.05	-.09	.03	-.674	-1.093	.350
6	-.19	.11	-15.0	9.2	-.06	-.11	.02	-.812	-1.328	.224
7	-.19	.12	-15.6	9.4	-.08	-.13	.01	-.958	-1.577	.098
8	-.21	.12	-16.7	9.8	-.09	-.15	-.00	-1.120	-1.909	-.021
9	-.24	.13	-18.8	10.2	-.10	-.19	-.01	-1.300	-2.390	-.123
10	-.26	.13	-20.9	10.7	-.12	-.23	-.02	-1.492	-2.925	-.227
11	-.29	.14	-23.0	11.3	-.14	-.28	-.02	-1.716	-3.501	-.288
12	-.31	.15	-25.0	11.8	-.16	-.33	-.03	-1.955	-4.128	-.323
13	-.34	.16	-27.0	12.5	-.18	-.38	-.03	-2.229	-4.797	-.360
14	-.36	.17	-28.6	13.3	-.20	-.44	-.03	-2.544	-5.448	-.384
15	-.38	.18	-30.2	14.2	-.23	-.49	-.03	-2.888	-6.141	-.408
16	-.40	.17	-31.8	13.5	-.23	-.55	-.03	-2.913	-6.875	-.432
17	-.42	.16	-33.4	13.1	-.24	-.61	-.04	-3.001	-7.653	-.482
18	-.44	.16	-35.1	12.7	-.25	-.68	-.04	-3.067	-8.472	-.528
19	-.45	.15	-35.9	12.2	-.25	-.73	-.05	-3.097	-9.128	-.568
20	-.46	.15	-36.6	11.7	-.25	-.78	-.05	-3.115	-9.770	-.609
21	-.46	.14	-37.2	11.1	-.25	-.83	-.05	-3.109	-10.409	-.639
22	-.47	.13	-37.6	10.5	-.25	-.88	-.05	-3.086	-11.012	-.639
23	-.48	.13	-38.1	10.0	-.25	-.93	-.05	-3.066	-11.627	-.639
24	-.49	.12	-39.0	9.7	-.25	-.99	-.06	-3.079	-12.420	-.691
25	-.50	.12	-40.2	9.3	-.25	-1.06	-.06	-3.083	-13.290	-.760
26	-.52	.11	-41.3	9.0	-.25	-1.13	-.07	-3.083	-14.188	-.829
27	-.53	.11	-42.2	8.6	-.25	-1.20	-.07	-3.078	-15.022	-.867
28	-.54	.10	-43.0	8.3	-.24	-1.27	-.07	-3.062	-15.865	-.902
29	-.54	.10	-43.7	7.9	-.24	-1.33	-.07	-3.005	-16.671	-.928
30	-.55	.10	-43.9	7.6	-.24	-1.39	-.08	-3.010	-17.339	-.946
31	-.55	.10	-44.2	7.8	-.25	-1.44	-.08	-3.183	-18.014	-.961
32	-.56	.10	-44.5	8.3	-.28	-1.50	-.08	-3.483	-18.697	-.977
33	-.57	.11	-45.5	8.8	-.30	-1.57	-.08	-3.794	-19.675	-1.001
34	-.59	.12	-47.0	9.2	-.33	-1.68	-.08	-4.120	-20.952	-1.022
35	-.60	.12	-47.7	9.7	-.36	-1.75	-.08	-4.459	-21.875	-1.018
36	-.60	.13	-48.4	10.2	-.38	-1.82	-.08	-4.813	-22.790	-1.004
37	-.65	.13	-52.2	10.7	-.41	-2.02	-.05	-5.184	-25.278	-.687
38	-.58	.13	-46.3	10.5	-.42	-1.84	-.08	-5.200	-23.008	-.943
39	-.55	.12	-43.7	9.8	-.40	-1.78	-.10	-5.008	-22.262	-1.210
40	-.56	.11	-44.5	9.2	-.38	-1.86	-.08	-4.799	-23.227	-.983
41	-.53	.11	-42.9	8.8	-.38	-1.83	-.10	-4.692	-22.921	-1.256
42	-.54	.10	-43.5	8.4	-.37	-1.91	-.09	-4.587	-23.820	-1.073

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

WIND DIRECTION 60
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.12	-.04	-9.8	-3.3	.00	-.01	.04	.036	-.108	.440
2	-.14	.01	-11.5	.5	-.00	-.03	.03	-.018	-.379	.378
3	-.09	.03	-7.4	2.0	-.01	-.03	.02	-.105	-.374	.191
4	-.10	.04	-8.0	3.2	-.02	-.04	.01	-.202	-.504	.171
5	-.11	.05	-8.5	4.3	-.03	-.05	.01	-.329	-.647	.152
6	-.11	.07	-9.1	5.4	-.04	-.06	.01	-.478	-.805	.131
7	-.12	.08	-9.6	6.5	-.05	-.08	.01	-.654	-.978	.110
8	-.13	.09	-10.6	7.5	-.07	-.10	.01	-.861	-1.210	.081
9	-.15	.11	-12.2	8.6	-.09	-.12	.00	-1.097	-1.547	.045
10	-.17	.12	-13.8	9.7	-.11	-.15	.00	-1.361	-1.924	.009
11	-.19	.13	-15.3	10.8	-.13	-.19	-.00	-1.638	-2.331	-.013
12	-.21	.15	-16.8	11.8	-.16	-.22	-.00	-1.942	-2.777	-.025
13	-.23	.16	-18.3	12.8	-.18	-.26	-.00	-2.273	-3.256	-.034
14	-.25	.17	-19.6	13.8	-.21	-.30	-.00	-2.633	-3.744	-.021
15	-.26	.18	-21.0	14.8	-.24	-.34	-.00	-3.011	-4.267	-.014
16	-.28	.19	-22.1	15.6	-.27	-.38	-.00	-3.371	-4.787	-.054
17	-.29	.20	-23.0	16.2	-.30	-.42	-.01	-3.716	-5.262	-.101
18	-.30	.21	-23.8	16.8	-.32	-.46	-.01	-4.063	-5.758	-.146
19	-.30	.22	-24.3	17.3	-.35	-.49	-.01	-4.400	-6.174	-.173
20	-.31	.22	-24.7	17.8	-.38	-.53	-.02	-4.750	-6.585	-.198
21	-.31	.23	-25.0	18.3	-.41	-.56	-.02	-5.114	-6.999	-.220
22	-.32	.23	-25.3	18.8	-.44	-.59	-.02	-5.491	-7.409	-.242
23	-.32	.24	-25.6	19.3	-.47	-.63	-.02	-5.886	-7.827	-.258
24	-.32	.25	-25.9	19.8	-.50	-.66	-.02	-6.308	-8.252	-.288
25	-.33	.25	-26.2	20.4	-.54	-.69	-.03	-6.745	-8.685	-.325
26	-.33	.26	-26.6	21.1	-.58	-.73	-.03	-7.239	-9.126	-.343
27	-.34	.27	-27.0	21.8	-.62	-.77	-.03	-7.772	-9.622	-.337
28	-.34	.28	-27.5	22.5	-.67	-.81	-.03	-8.322	-10.135	-.331
29	-.35	.29	-27.9	23.2	-.71	-.85	-.03	-8.843	-10.656	-.333
30	-.35	.30	-28.3	23.7	-.75	-.89	-.03	-9.365	-11.177	-.355
31	-.36	.30	-28.7	24.4	-.80	-.94	-.03	-9.945	-11.708	-.374
32	-.36	.32	-29.2	25.3	-.85	-.98	-.03	-10.616	-12.249	-.385
33	-.39	.33	-31.3	26.1	-.90	-1.08	-.03	-11.309	-13.566	-.417
34	-.42	.34	-33.7	26.9	-.96	-1.20	-.03	-12.007	-15.010	-.418
35	-.44	.35	-35.6	27.8	-1.02	-1.31	-.03	-12.726	-16.331	-.423
36	-.47	.36	-37.6	28.6	-1.08	-1.42	-.03	-13.466	-17.713	-.432
37	-.53	.37	-42.7	29.4	-1.14	-1.65	-.02	-14.227	-20.651	-.294
38	-.48	.36	-38.1	29.2	-1.16	-1.51	-.04	-14.486	-18.940	-.448
39	-.41	.35	-32.6	28.4	-1.16	-1.33	-.04	-14.449	-16.630	-.478
40	-.42	.34	-33.6	27.6	-1.15	-1.40	-.03	-14.393	-17.548	-.375
41	-.39	.35	-31.0	26.4	-1.13	-1.33	-.04	-14.139	-16.598	-.549
42	-.40	.32	-32.2	25.3	-1.11	-1.41	-.04	-13.837	-17.648	-.518

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 75
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.08	.23	-6.7	18.4	-.02	-.01	.04	-.203	-.074	.549
2	-.10	.25	-7.8	20.3	-.05	-.02	.04	-.669	-.256	.455
3	-.06	.16	-5.0	12.6	-.05	-.02	.02	-.634	-.252	.222
4	-.07	.16	-5.4	13.2	-.07	-.03	.02	-.832	-.338	.195
5	-.07	.17	-5.7	13.7	-.08	-.03	.01	-1.040	-.434	.167
6	-.08	.18	-6.1	14.0	-.10	-.04	.01	-1.243	-.539	.129
7	-.08	.18	-6.4	14.3	-.12	-.05	.01	-1.455	-.653	.092
8	-.09	.19	-7.3	15.1	-.14	-.07	.00	-1.718	-.838	.055
9	-.11	.20	-9.1	16.0	-.16	-.09	.00	-2.033	-1.154	.026
10	-.14	.21	-10.8	17.0	-.19	-.12	-.00	-2.374	-1.514	-.003
11	-.16	.22	-12.5	18.0	-.22	-.15	-.00	-2.742	-1.907	-.018
12	-.18	.24	-14.2	19.0	-.25	-.19	-.00	-3.135	-2.344	-.023
13	-.20	.25	-15.8	20.0	-.28	-.23	-.00	-3.552	-2.815	-.030
14	-.22	.26	-17.3	20.9	-.32	-.26	-.00	-3.992	-3.291	-.035
15	-.23	.27	-18.7	21.9	-.36	-.30	-.00	-4.459	-3.802	-.047
16	-.25	.28	-19.9	22.6	-.39	-.34	-.00	-4.892	-4.306	-.052
17	-.26	.29	-20.8	23.2	-.42	-.38	-.00	-5.308	-4.754	-.057
18	-.27	.30	-21.6	23.7	-.46	-.42	-.00	-5.735	-5.223	-.058
19	-.28	.30	-22.2	24.2	-.49	-.45	-.00	-6.168	-5.648	-.045
20	-.28	.31	-22.7	24.8	-.53	-.49	-.00	-6.615	-6.077	-.030
21	-.29	.32	-23.3	25.3	-.57	-.52	-.00	-7.077	-6.522	-.023
22	-.30	.32	-23.9	25.8	-.60	-.56	-.00	-7.554	-6.986	-.023
23	-.30	.33	-24.4	26.3	-.64	-.60	-.00	-8.031	-7.465	-.020
24	-.31	.33	-24.7	26.7	-.68	-.63	-.00	-8.485	-7.866	-.012
25	-.31	.34	-24.9	27.0	-.72	-.66	-.00	-8.948	-8.244	-.006
26	-.31	.34	-25.1	27.3	-.75	-.69	.00	-9.374	-8.628	.002
27	-.31	.34	-25.1	27.4	-.78	-.72	.00	-9.782	-8.958	.005
28	-.31	.34	-25.1	27.6	-.82	-.74	.00	-10.193	-9.282	.007
29	-.31	.35	-25.2	27.7	-.85	-.77	.00	-10.584	-9.627	.015
30	-.32	.35	-25.4	27.8	-.88	-.80	.00	-10.959	-10.029	.020
31	-.32	.35	-25.6	28.1	-.91	-.83	.00	-11.434	-10.436	.023
32	-.32	.36	-25.8	28.7	-.97	-.87	.00	-12.066	-10.848	.030
33	-.33	.37	-26.7	29.4	-1.02	-.92	.00	-12.716	-11.557	.022
34	-.35	.38	-27.7	30.2	-1.08	-.99	.00	-13.474	-12.349	.043
35	-.36	.39	-28.7	31.1	-1.14	-1.05	.00	-14.258	-13.148	.052
36	-.37	.40	-29.7	31.9	-1.20	-1.12	.00	-15.046	-14.007	.060
37	-.41	.41	-33.1	32.7	-1.27	-1.28	.01	-15.836	-16.005	.158
38	-.36	.40	-29.1	32.4	-1.29	-1.15	.01	-16.078	-14.435	.077
39	-.31	.39	-25.2	31.4	-1.28	-1.02	.00	-15.998	-12.814	.039
40	-.32	.38	-25.6	30.4	-1.27	-1.07	.01	-15.893	-13.370	.121
41	-.29	.36	-23.2	28.8	-1.23	-.99	.00	-15.417	-12.387	.062
42	-.30	.34	-24.3	27.1	-1.19	-1.07	.00	-14.863	-13.334	.045

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 90
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.06	.47	-4.8	37.8	-.03	-.00	.06	-.416	-.052	.720
2	-.07	.46	-5.5	36.6	-.10	-.01	.05	-1.209	-.181	.591
3	-.04	.26	-3.5	20.7	-.08	-.01	.02	-1.044	-.177	.284
4	-.05	.26	-3.8	20.5	-.10	-.02	.02	-1.294	-.237	.246
5	-.05	.25	-4.0	20.2	-.12	-.02	.02	-1.531	-.303	.206
6	-.05	.24	-4.2	19.5	-.14	-.03	.01	-1.726	-.376	.164
7	-.06	.23	-4.5	18.8	-.15	-.04	.01	-1.902	-.454	.121
8	-.07	.24	-5.6	19.0	-.17	-.05	.01	-2.164	-.636	.082
9	-.10	.25	-8.0	19.8	-.20	-.08	.00	-2.513	-1.014	.056
10	-.13	.26	-10.4	20.7	-.23	-.12	.00	-2.884	-1.455	.030
11	-.16	.27	-12.6	21.6	-.26	-.15	.00	-3.285	-1.927	.016
12	-.18	.28	-14.8	22.5	-.30	-.20	.00	-3.709	-2.443	.008
13	-.21	.29	-16.9	23.3	-.33	-.24	.00	-4.153	-2.998	.003
14	-.23	.30	-18.7	24.2	-.37	-.29	.00	-4.615	-3.572	.018
15	-.26	.31	-20.6	25.2	-.41	-.34	.00	-5.119	-4.194	.027
16	-.27	.32	-22.0	26.0	-.45	-.38	.00	-5.620	-4.745	.038
17	-.28	.34	-22.3	27.6	-.51	-.41	.01	-6.323	-5.094	.081
18	-.28	.36	-22.6	29.1	-.56	-.44	.01	-7.038	-5.452	.130
19	-.29	.38	-22.9	30.4	-.62	-.47	.01	-7.741	-5.818	.185
20	-.29	.40	-23.2	31.7	-.68	-.50	.02	-8.477	-6.191	.240
21	-.29	.41	-23.4	33.0	-.74	-.52	.02	-9.243	-6.545	.287
22	-.29	.43	-23.4	34.3	-.80	-.55	.03	-10.041	-6.836	.326
23	-.29	.44	-23.3	35.6	-.87	-.57	.03	-10.858	-7.127	.363
24	-.29	.46	-23.1	36.7	-.93	-.59	.03	-11.668	-7.359	.374
25	-.29	.47	-22.9	37.8	-1.00	-.61	.03	-12.508	-7.567	.378
26	-.28	.48	-22.6	38.7	-1.06	-.62	.03	-13.286	-7.768	.393
27	-.27	.49	-22.0	39.4	-1.12	-.63	.03	-14.041	-7.845	.414
28	-.27	.50	-21.4	40.1	-1.18	-.63	.03	-14.816	-7.893	.435
29	-.26	.51	-20.8	40.9	-1.25	-.63	.04	-15.607	-7.930	.458
30	-.25	.52	-20.2	41.6	-1.31	-.64	.04	-16.433	-7.966	.495
31	-.24	.53	-19.6	42.2	-1.38	-.64	.04	-17.201	-7.987	.533
32	-.24	.53	-19.0	42.5	-1.43	-.64	.04	-17.865	-7.994	.557
33	-.24	.53	-19.1	42.8	-1.48	-.66	.04	-18.536	-8.272	.556
34	-.24	.54	-19.3	43.4	-1.55	-.69	.05	-19.325	-8.581	.583
35	-.24	.55	-19.1	43.9	-1.61	-.70	.05	-20.152	-8.774	.606
36	-.24	.55	-19.0	44.4	-1.67	-.72	.05	-20.926	-8.974	.626
37	-.26	.56	-20.8	44.8	-1.74	-.80	.06	-21.700	-10.052	.730
38	-.23	.55	-18.7	43.7	-1.74	-.74	.05	-21.710	-9.277	.628
39	-.21	.52	-16.9	41.7	-1.70	-.69	.04	-21.262	-8.617	.536
40	-.21	.50	-17.1	39.8	-1.66	-.71	.05	-20.764	-8.917	.623
41	-.19	.47	-15.4	37.6	-1.61	-.66	.05	-20.101	-8.212	.589
42	-.19	.44	-15.6	35.4	-1.55	-.68	.05	-19.371	-8.516	.670

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 105
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.03	.53	-2.4	42.2	-.04	-.00	.05	-.464	-.026	.563
2	-.03	.43	-2.1	38.3	-.10	-.01	.04	-1.265	-.069	.507
3	-.01	.26	-1.1	20.5	-.08	-.00	.02	-1.033	-.054	.267
4	-.01	.24	-1.0	19.6	-.10	-.00	.02	-1.237	-.061	.245
5	-.01	.23	-.9	18.6	-.11	-.01	.02	-1.412	-.065	.223
6	-.01	.22	-.7	17.3	-.12	-.01	.02	-1.538	-.066	.200
7	-.01	.20	-.6	16.1	-.13	-.01	.01	-1.631	-.065	.176
8	-.02	.20	-1.2	16.1	-.15	-.01	.01	-1.834	-.142	.143
9	-.04	.21	-3.0	17.0	-.17	-.03	.01	-2.151	-.375	.096
10	-.06	.22	-4.7	17.8	-.20	-.05	.00	-2.488	-.653	.048
11	-.08	.23	-6.2	18.6	-.23	-.08	.00	-2.852	-.949	.007
12	-.10	.24	-7.7	19.4	-.26	-.10	-.00	-3.197	-1.273	-.031
13	-.11	.25	-9.1	20.1	-.29	-.13	-.00	-3.573	-1.627	-.058
14	-.13	.25	-10.5	20.8	-.32	-.16	-.00	-3.959	-1.995	-.040
15	-.15	.27	-11.8	21.6	-.35	-.19	-.00	-4.386	-2.396	-.025
16	-.16	.27	-12.7	21.7	-.38	-.22	-.00	-4.698	-2.754	-.032
17	-.16	.30	-13.1	23.7	-.43	-.24	.00	-5.432	-2.988	.036
18	-.17	.32	-13.4	25.7	-.50	-.26	.01	-6.207	-3.229	.109
19	-.17	.34	-13.5	27.6	-.56	-.27	.02	-7.016	-3.429	.203
20	-.17	.37	-13.6	29.5	-.63	-.29	.02	-7.875	-3.624	.299
21	-.17	.39	-13.8	31.4	-.70	-.31	.03	-8.785	-3.856	.386
22	-.18	.42	-14.3	33.5	-.78	-.33	.04	-9.744	-4.171	.456
23	-.18	.43	-14.7	34.8	-.85	-.36	.04	-10.625	-4.498	.510
24	-.18	.44	-14.3	35.3	-.90	-.36	.04	-11.220	-4.554	.513
25	-.17	.45	-13.6	35.7	-.95	-.36	.04	-11.826	-4.509	.514
26	-.16	.45	-12.9	36.2	-.99	-.36	.04	-12.428	-4.448	.515
27	-.15	.46	-12.3	36.6	-1.04	-.35	.04	-13.030	-4.384	.504
28	-.15	.46	-11.7	37.0	-1.09	-.34	.04	-13.642	-4.306	.492
29	-.14	.47	-11.0	37.3	-1.14	-.34	.04	-14.261	-4.205	.478
30	-.13	.48	-10.3	38.3	-1.21	-.33	.04	-15.098	-4.071	.498
31	-.12	.49	-9.6	39.2	-1.28	-.31	.04	-15.984	-3.919	.544
32	-.11	.49	-8.9	39.6	-1.33	-.30	.05	-16.644	-3.749	.575
33	-.10	.50	-8.1	40.0	-1.38	-.28	.05	-17.314	-3.524	.629
34	-.09	.50	-7.5	40.4	-1.44	-.27	.05	-18.001	-3.344	.671
35	-.08	.51	-6.7	40.8	-1.50	-.25	.06	-18.699	-3.094	.705
36	-.07	.52	-6.0	41.3	-1.56	-.22	.06	-19.451	-2.812	.740
37	-.07	.52	-5.5	41.9	-1.62	-.21	.07	-20.265	-2.669	.872
38	-.08	.51	-6.1	40.9	-1.62	-.24	.06	-20.312	-3.040	.761
39	-.09	.49	-7.4	39.1	-1.59	-.30	.05	-19.903	-3.790	.613
40	-.10	.48	-8.0	37.2	-1.56	-.33	.05	-19.448	-4.156	.671
41	-.10	.46	-8.2	37.1	-1.59	-.35	.04	-19.868	-4.367	.523
42	-.10	.45	-8.2	37.2	-1.63	-.36	.04	-20.384	-4.470	.557

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 120
REF. PRESS = 25.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.02	.45	1.9	36.4	-.03	.00	.04	-.401	.021	.502
2	.06	.41	4.4	32.8	-.09	.01	.04	-1.082	.146	.477
3	.05	.22	3.7	17.4	-.07	.02	.02	-.875	.188	.264
4	.06	.21	4.6	16.5	-.08	.02	.02	-1.039	.289	.250
5	.07	.19	5.4	15.5	-.09	.03	.02	-1.177	.413	.236
6	.08	.18	6.3	14.4	-.10	.04	.02	-1.278	.558	.218
7	.09	.17	7.1	13.3	-.11	.06	.02	-1.350	.725	.201
8	.10	.17	7.6	13.4	-.12	.07	.01	-1.533	.873	.169
9	.09	.18	7.6	14.4	-.15	.08	.01	-1.828	.963	.103
10	.09	.19	7.5	15.4	-.17	.08	.00	-2.147	1.052	-.039
11	.09	.20	7.3	16.4	-.20	.09	-.00	-2.494	1.115	-.025
12	.09	.22	7.0	17.4	-.23	.09	-.01	-2.866	1.157	-.090
13	.08	.23	6.8	18.2	-.26	.10	-.01	-3.245	1.209	-.154
14	.09	.24	7.0	19.0	-.29	.11	-.02	-3.625	1.333	-.200
15	.09	.25	7.2	19.9	-.32	.12	-.02	-4.041	1.462	-.246
16	.09	.23	7.2	18.7	-.32	.12	-.03	-4.042	1.549	-.361
17	.08	.26	6.7	20.7	-.38	.12	-.03	-4.748	1.540	-.358
18	.08	.28	6.3	22.7	-.44	.12	-.03	-5.483	1.521	-.352
19	.07	.31	5.5	24.5	-.50	.11	-.03	-6.227	1.402	-.364
20	.06	.33	4.7	26.3	-.56	.10	-.03	-7.017	1.248	-.380
21	.05	.35	3.9	27.9	-.62	.09	-.03	-7.813	1.096	-.384
22	.04	.37	3.4	29.5	-.69	.08	-.03	-8.638	.983	-.357
23	.03	.38	2.8	30.8	-.75	.07	-.03	-9.415	.856	-.333
24	.03	.39	2.5	31.4	-.80	.06	-.03	-9.998	.806	-.326
25	.03	.40	2.4	32.0	-.85	.06	-.03	-10.596	.779	-.324
26	.03	.41	2.2	32.8	-.90	.06	-.03	-11.256	.747	-.338
27	.02	.42	1.9	33.6	-.96	.05	-.03	-11.963	.682	-.346
28	.02	.43	1.6	34.4	-1.01	.05	-.03	-12.688	.607	-.351
29	.02	.44	1.4	35.1	-1.07	.04	-.03	-13.409	.543	-.354
30	.02	.46	1.3	36.8	-1.16	.04	-.02	-14.516	.525	-.290
31	.02	.46	1.2	38.6	-1.26	.04	-.02	-15.726	.505	-.212
32	.01	.46	1.1	39.4	-1.32	.04	-.02	-16.567	.482	-.207
33	.02	.48	1.3	40.3	-1.39	.05	-.02	-17.428	.582	-.205
34	.02	.49	1.6	41.0	-1.46	.06	-.02	-18.256	.706	-.206
35	.02	.52	1.8	41.7	-1.53	.07	-.02	-19.098	.836	-.191
36	.03	.53	2.1	42.6	-1.60	.08	-.01	-20.056	.987	-.183
37	.04	.55	2.9	43.7	-1.69	.11	-.01	-21.144	1.399	-.136
38	.01	.56	1.0	43.6	-1.71	.04	-.02	-21.337	.481	-.200
39	-.02	.51	-1.4	41.2	-1.68	-.06	-.02	-21.003	-.725	-.311
40	-.01	.49	-.7	39.5	-1.65	-.03	-.02	-20.624	-.366	-.291
41	-.01	.51	-.7	40.6	-1.74	-.03	-.03	-21.806	-.389	-.340
42	-.01	.53	-.5	42.4	-1.85	-.02	-.02	-23.193	-.293	-.221

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 135
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.16	.75	12.9	60.3	-.05	.01	-.00	-.663	.142	-.001
2	.21	.71	16.5	57.1	-.15	.04	-.00	-1.884	.545	-.002
3	.14	.40	11.2	31.7	-.13	.05	-.00	-1.596	.564	-.002
4	.15	.38	12.4	30.9	-.16	.06	-.00	-1.948	.783	-.007
5	.17	.37	13.6	30.0	-.18	.08	-.00	-2.279	1.033	-.009
6	.18	.36	14.8	29.2	-.21	.10	-.00	-2.589	1.313	-.003
7	.20	.35	16.0	28.4	-.23	.13	.00	-2.879	1.624	.003
8	.21	.36	17.0	28.6	-.26	.16	-.00	-3.262	1.948	-.017
9	.22	.37	17.8	29.5	-.30	.18	-.01	-3.739	2.261	-.097
10	.23	.38	18.6	30.4	-.34	.21	-.01	-4.239	2.596	-.178
11	.24	.39	19.6	31.2	-.38	.24	-.02	-4.759	2.982	-.242
12	.26	.40	20.7	32.1	-.42	.27	-.02	-5.300	3.411	-.297
13	.27	.41	21.7	32.9	-.47	.31	-.03	-5.845	3.868	-.347
14	.28	.42	22.6	33.5	-.51	.35	-.03	-6.390	4.315	-.388
15	.29	.43	23.5	34.2	-.56	.38	-.03	-6.954	4.785	-.425
16	.30	.41	24.1	32.7	-.57	.42	-.04	-7.068	5.204	-.546
17	.30	.43	24.0	34.1	-.62	.44	-.04	-7.809	5.492	-.556
18	.30	.44	23.9	35.4	-.68	.46	-.04	-8.561	5.779	-.563
19	.29	.46	23.2	36.6	-.74	.47	-.05	-9.306	5.901	-.584
20	.28	.47	22.4	37.7	-.81	.48	-.05	-10.079	5.978	-.609
21	.27	.48	21.6	38.7	-.87	.48	-.05	-10.833	6.052	-.624
22	.26	.49	21.0	39.6	-.93	.49	-.05	-11.598	6.145	-.613
23	.25	.50	20.4	40.4	-.99	.50	-.05	-12.335	6.223	-.610
24	.24	.51	19.6	40.7	-1.04	.50	-.05	-12.954	6.244	-.640
25	.24	.51	18.8	41.1	-1.09	.50	-.05	-13.583	6.232	-.675
26	.23	.52	18.0	41.6	-1.14	.50	-.06	-14.281	6.201	-.721
27	.21	.53	17.2	42.1	-1.20	.49	-.06	-15.021	6.126	-.753
28	.20	.53	16.3	42.7	-1.26	.48	-.06	-15.774	6.026	-.783
29	.19	.54	15.5	43.2	-1.32	.47	-.06	-16.506	5.909	-.809
30	.18	.55	14.6	44.4	-1.40	.46	-.06	-17.524	5.781	-.780
31	.17	.57	13.8	45.8	-1.49	.45	-.06	-18.642	5.651	-.740
32	.16	.58	13.0	46.4	-1.56	.44	-.06	-19.513	5.461	-.753
33	.16	.59	12.7	47.1	-1.63	.44	-.06	-20.401	5.501	-.758
34	.16	.59	12.7	47.5	-1.69	.45	-.06	-21.177	5.661	-.768
35	.16	.60	12.5	47.9	-1.76	.46	-.06	-21.959	5.738	-.753
36	.15	.61	12.3	48.5	-1.83	.46	-.06	-22.859	5.792	-.746
37	.15	.62	12.3	49.4	-1.91	.48	-.05	-23.895	5.972	-.640
38	.14	.60	11.2	48.0	-1.91	.44	-.06	-23.830	5.546	-.782
39	.17	.57	13.9	45.4	-1.85	.57	-.09	-23.110	7.084	-1.074
40	.15	.53	12.2	42.8	-1.79	.51	-.08	-22.323	6.358	-1.002
41	.13	.52	10.4	41.8	-1.79	.44	-.08	-22.379	5.545	-1.033
42	.08	.51	6.4	41.1	-1.80	.28	-.06	-22.509	3.481	-.805

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

WIND DIRECTION 150
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.32	.66	25.8	52.5	-.05	.02	-.04	-.578	.284	-.480
2	.36	.65	28.7	52.1	-.14	.08	-.04	-1.720	.949	-.442
3	.22	.38	18.0	30.1	-.12	.07	-.02	-1.515	.908	-.239
4	.24	.38	19.0	30.2	-.15	.10	-.02	-1.908	1.201	-.226
5	.25	.38	20.0	30.3	-.18	.12	-.02	-2.302	1.519	-.209
6	.26	.38	21.0	30.3	-.21	.15	-.01	-2.686	1.863	-.174
7	.27	.38	22.0	30.3	-.25	.18	-.01	-3.068	2.232	-.138
8	.29	.39	22.9	31.1	-.28	.21	-.01	-3.545	2.612	-.123
9	.29	.40	23.6	32.5	-.33	.24	-.01	-4.117	2.989	-.157
10	.30	.42	24.2	33.8	-.38	.27	-.02	-4.726	3.383	-.191
11	.31	.44	25.2	35.3	-.43	.31	-.02	-5.384	3.846	-.218
12	.33	.46	26.5	36.8	-.49	.35	-.02	-6.081	4.369	-.241
13	.35	.48	27.7	38.3	-.54	.39	-.02	-6.814	4.921	-.264
14	.36	.50	28.5	39.8	-.61	.44	-.02	-7.585	5.441	-.268
15	.37	.51	29.4	41.3	-.67	.48	-.02	-8.394	5.983	-.261
16	.38	.50	30.3	40.3	-.70	.52	-.03	-8.714	6.546	-.343
17	.39	.52	31.1	41.4	-.76	.57	-.03	-9.479	7.126	-.337
18	.40	.53	32.0	42.5	-.82	.62	-.03	-10.272	7.727	-.332
19	.40	.54	32.2	43.6	-.89	.66	-.03	-11.095	8.194	-.321
20	.40	.55	32.3	44.7	-.96	.69	-.02	-11.946	8.640	-.309
21	.40	.57	32.4	45.7	-1.02	.73	-.02	-12.790	9.070	-.294
22	.40	.58	32.3	46.6	-1.09	.76	-.02	-13.648	9.455	-.275
23	.40	.59	32.2	47.3	-1.16	.79	-.02	-14.459	9.838	-.267
24	.40	.59	31.9	47.5	-1.21	.81	-.02	-15.107	10.158	-.296
25	.39	.59	31.6	47.6	-1.26	.84	-.03	-15.759	10.452	-.328
26	.39	.60	31.2	47.8	-1.31	.86	-.03	-16.414	10.737	-.358
27	.38	.60	30.8	47.9	-1.37	.88	-.03	-17.073	10.968	-.373
28	.38	.60	30.3	48.1	-1.42	.89	-.03	-17.738	11.181	-.385
29	.37	.60	29.8	48.3	-1.47	.91	-.03	-18.434	11.375	-.396
30	.36	.61	29.2	49.0	-1.55	.92	-.03	-19.326	11.541	-.372
31	.36	.62	28.7	49.8	-1.62	.94	-.03	-20.300	11.693	-.338
32	.35	.63	28.2	50.3	-1.69	.95	-.03	-21.121	11.831	-.337
33	.35	.63	28.2	50.7	-1.76	.97	-.03	-21.953	12.189	-.316
34	.36	.64	28.5	51.2	-1.82	1.02	-.03	-22.802	12.714	-.317
35	.35	.64	28.4	51.6	-1.89	1.04	-.02	-23.663	13.015	-.298
36	.35	.65	28.0	52.1	-1.96	1.06	-.02	-24.566	13.199	-.286
37	.33	.66	26.6	52.7	-2.04	1.03	-.02	-25.515	12.851	-.201
38	.35	.63	28.4	50.9	-2.02	1.13	-.02	-25.256	14.089	-.221
39	.41	.59	32.8	47.7	-1.94	1.34	-.04	-24.274	16.717	-.507
40	.36	.55	28.5	44.5	-1.86	1.19	-.04	-23.210	14.857	-.509
41	.33	.53	26.4	42.2	-1.80	1.13	-.04	-22.566	14.146	-.509
42	.24	.50	19.2	40.0	-1.75	.84	-.03	-21.919	10.513	-.337

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 165
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

	CPX	CPY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.33	.32	26.8	25.5	-.02	.02	-.02	-.278	.295	-.308
2	.39	.35	31.1	27.6	-.07	.08	-.02	-.916	1.027	-.242
3	.25	.21	20.0	17.2	-.07	.08	-.01	-.868	1.009	-.110
4	.27	.23	21.5	18.2	-.09	.11	-.01	-1.148	1.357	-.089
5	.29	.24	23.0	19.2	-.12	.14	-.01	-1.456	1.742	-.065
6	.30	.25	24.4	20.4	-.14	.17	-.00	-1.805	2.164	-.027
7	.32	.27	25.9	21.6	-.17	.21	.00	-2.185	2.624	.011
8	.34	.29	27.0	23.1	-.21	.25	.00	-2.639	3.085	.040
9	.35	.31	27.7	25.0	-.25	.28	.00	-3.169	3.512	.041
10	.35	.33	28.3	26.8	-.30	.32	.00	-3.745	3.956	.039
11	.37	.36	29.4	28.6	-.35	.36	.00	-4.363	4.477	.043
12	.38	.38	30.6	30.5	-.40	.40	.00	-5.028	5.061	.058
13	.40	.40	31.9	32.2	-.46	.45	.01	-5.732	5.671	.070
14	.41	.42	32.8	34.0	-.52	.50	.01	-6.472	6.244	.082
15	.42	.45	33.6	35.8	-.58	.55	.01	-7.281	6.840	.094
16	.43	.44	34.5	35.4	-.61	.60	.00	-7.642	7.465	.043
17	.44	.45	35.5	36.2	-.66	.65	.00	-8.286	8.124	.050
18	.45	.46	36.5	37.0	-.72	.70	.00	-8.941	8.808	.058
19	.46	.47	37.2	37.7	-.77	.76	.01	-9.600	9.454	.066
20	.47	.48	37.8	38.5	-.82	.81	.01	-10.277	10.109	.073
21	.48	.49	38.4	39.2	-.88	.86	.01	-10.984	10.739	.086
22	.48	.50	38.6	40.0	-.94	.90	.01	-11.714	11.285	.110
23	.48	.51	38.8	40.6	-.99	.95	.01	-12.399	11.837	.126
24	.49	.51	39.4	40.7	-1.03	1.00	.01	-12.932	12.523	.112
25	.50	.51	40.1	40.7	-1.08	1.06	.01	-13.467	13.264	.095
26	.51	.51	40.8	40.7	-1.12	1.12	.01	-13.984	14.024	.085
27	.52	.51	41.3	40.7	-1.16	1.18	.01	-14.493	14.718	.086
28	.52	.51	41.8	40.6	-1.20	1.23	.01	-15.004	15.414	.087
29	.53	.51	42.2	40.8	-1.25	1.29	.01	-15.569	16.103	.093
30	.53	.51	42.5	41.2	-1.30	1.34	.01	-16.258	16.752	.140
31	.53	.52	42.7	41.7	-1.36	1.39	.02	-16.976	17.408	.198
32	.54	.52	43.0	41.8	-1.40	1.45	.02	-17.566	18.071	.227
33	.53	.52	42.4	42.0	-1.45	1.47	.02	-18.159	18.348	.223
34	.52	.53	42.0	42.2	-1.50	1.50	.01	-18.806	18.703	.186
35	.51	.53	41.2	42.5	-1.56	1.51	.02	-19.461	18.904	.188
36	.50	.53	40.4	42.7	-1.61	1.52	.02	-20.119	19.043	.200
37	.47	.54	37.5	42.9	-1.66	1.45	.02	-20.781	18.162	.301
38	.50	.52	40.1	41.3	-1.64	1.59	.02	-20.519	19.916	.274
39	.58	.48	46.6	38.7	-1.58	1.90	.01	-19.705	23.740	.092
40	.51	.45	40.9	36.0	-1.51	1.71	.01	-18.819	21.374	.110
41	.47	.42	37.8	34.0	-1.45	1.62	.00	-18.171	20.227	.040
42	.37	.40	29.3	32.0	-1.40	1.28	.02	-17.502	16.031	.238

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

WIND DIRECTION 180
REF. PRESS = 23.6 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.27	-.01	21.6	-.5	.00	.02	-.05	.006	.237	-.568
2	.34	.06	27.1	5.1	-.01	.07	-.04	-.169	.895	-.444
3	.23	.07	18.2	5.5	-.02	.07	-.02	-.278	.919	-.202
4	.25	.09	20.1	7.3	-.04	.10	-.01	-.462	1.269	-.166
5	.27	.11	22.0	9.2	-.06	.13	-.01	-.697	1.665	-.127
6	.30	.14	23.8	11.3	-.08	.17	-.01	-1.004	2.110	-.070
7	.32	.17	25.7	13.5	-.11	.21	-.00	-1.366	2.601	-.014
8	.34	.20	27.2	15.7	-.14	.25	.00	-1.796	3.101	.032
9	.35	.23	28.2	18.1	-.18	.29	.00	-2.293	3.573	.041
10	.36	.25	29.1	20.4	-.23	.33	.00	-2.844	4.069	.048
11	.38	.28	30.3	22.3	-.27	.37	.01	-3.396	4.610	.067
12	.39	.30	31.5	24.2	-.32	.42	.01	-3.997	5.194	.098
13	.41	.33	32.6	26.1	-.37	.46	.01	-4.648	5.801	.131
14	.42	.35	33.7	28.1	-.43	.51	.01	-5.349	6.420	.174
15	.43	.36	34.7	30.2	-.49	.57	.02	-6.141	7.067	.215
16	.45	.37	35.8	29.8	-.51	.62	.01	-6.431	7.741	.184
17	.46	.38	36.9	30.4	-.56	.68	.01	-6.964	8.441	.172
18	.47	.39	37.9	30.9	-.60	.73	.01	-7.476	9.168	.172
19	.48	.39	38.5	31.2	-.63	.78	.02	-7.959	9.795	.213
20	.49	.39	39.0	31.5	-.67	.83	.02	-8.408	10.417	.257
21	.49	.40	39.6	31.9	-.71	.89	.02	-8.916	11.076	.296
22	.50	.40	40.3	32.3	-.76	.94	.03	-9.443	11.807	.326
23	.51	.41	41.1	32.5	-.79	1.00	.03	-9.921	12.559	.349
24	.52	.40	41.5	32.2	-.82	1.05	.03	-10.253	13.189	.343
25	.52	.40	41.7	32.0	-.85	1.10	.03	-10.579	13.784	.332
26	.52	.39	41.9	31.6	-.87	1.15	.03	-10.853	14.383	.321
27	.52	.39	41.9	31.1	-.89	1.19	.03	-11.096	14.938	.329
28	.52	.38	42.0	30.7	-.91	1.24	.03	-11.332	15.489	.339
29	.52	.38	41.9	30.5	-.93	1.28	.03	-11.656	16.010	.343
30	.52	.38	41.7	30.5	-.96	1.32	.03	-12.039	16.450	.367
31	.52	.36	41.4	30.4	-.99	1.35	.03	-12.390	16.885	.406
32	.51	.37	41.2	30.0	-1.01	1.38	.03	-12.611	17.313	.428
33	.52	.37	42.0	29.6	-1.03	1.45	.04	-12.825	18.159	.468
34	.53	.37	42.8	29.8	-1.06	1.53	.04	-13.264	19.068	.463
35	.54	.37	42.9	29.9	-1.10	1.57	.04	-13.716	19.677	.493
36	.54	.37	43.0	30.0	-1.13	1.62	.04	-14.111	20.265	.544
37	.52	.37	41.4	29.8	-1.15	1.60	.06	-14.434	20.026	.757
38	.53	.36	42.8	28.6	-1.13	1.70	.05	-14.186	21.280	.647
39	.62	.35	49.6	26.7	-1.09	2.02	.03	-13.593	25.246	.337
40	.57	.31	45.6	24.8	-1.04	1.91	.04	-12.952	23.819	.492
41	.55	.29	44.2	23.3	-1.00	1.89	.03	-12.485	23.624	.354
42	.46	.27	36.8	21.9	-.96	1.61	.05	-12.006	20.172	.676

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 195
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.15	-.17	11.9	-13.4	.01	.01	-.01	.147	.131	-.187
2	.20	-.11	15.7	-8.4	.02	.04	-.01	.278	.518	-.183
3	.14	-.03	10.8	-2.7	.01	.04	-.01	.134	.546	-.105
4	.15	-.02	12.1	-1.2	.01	.06	-.01	.077	.766	-.108
5	.17	.00	13.4	.3	-.00	.08	-.01	-.021	1.018	-.108
6	.18	.03	14.7	2.0	-.01	.10	-.01	-.180	1.303	-.098
7	.20	.05	16.0	3.8	-.03	.13	-.01	-.384	1.620	-.088
8	.21	.06	17.1	5.1	-.05	.16	-.01	-.580	1.953	-.066
9	.22	.08	18.0	6.0	-.06	.18	-.00	-.767	2.286	-.047
10	.24	.09	18.9	7.0	-.08	.21	-.00	-.974	2.641	-.030
11	.25	.10	19.8	7.6	-.09	.24	-.00	-1.163	3.017	-.008
12	.26	.10	20.6	8.3	-.11	.27	.00	-1.369	3.404	.019
13	.27	.11	21.3	9.0	-.13	.30	.00	-1.600	3.796	.043
14	.27	.12	21.8	9.8	-.15	.33	.01	-1.859	4.149	.067
15	.28	.13	22.2	10.7	-.17	.36	.01	-2.178	4.512	.086
16	.28	.13	22.6	10.4	-.18	.39	.01	-2.252	4.876	.083
17	.29	.13	22.8	10.6	-.19	.42	.01	-2.417	5.229	.097
18	.29	.13	23.1	10.7	-.21	.45	.01	-2.582	5.589	.113
19	.30	.13	23.9	10.8	-.22	.49	.01	-2.744	6.092	.163
20	.31	.14	24.9	10.9	-.23	.53	.02	-2.909	6.638	.219
21	.32	.14	25.5	11.0	-.25	.57	.02	-3.067	7.145	.271
22	.32	.14	25.7	11.0	-.26	.60	.03	-3.224	7.519	.313
23	.32	.14	25.9	10.9	-.27	.63	.03	-3.336	7.898	.352
24	.33	.13	26.4	10.5	-.27	.67	.03	-3.325	8.407	.352
25	.34	.12	27.1	10.0	-.26	.72	.03	-3.302	8.970	.343
26	.35	.12	27.8	9.6	-.26	.76	.03	-3.304	9.550	.321
27	.35	.12	28.1	9.3	-.27	.80	.03	-3.315	10.022	.318
28	.35	.11	28.4	9.0	-.27	.84	.03	-3.316	10.487	.317
29	.36	.11	28.6	8.6	-.26	.87	.03	-3.293	10.931	.326
30	.36	.10	28.7	8.2	-.26	.90	.03	-3.250	11.307	.359
31	.36	.10	28.7	8.0	-.26	.93	.03	-3.245	11.684	.398
32	.36	.10	28.7	7.9	-.26	.96	.03	-3.303	12.061	.428
33	.36	.10	29.2	7.8	-.27	1.01	.03	-3.360	12.623	.433
34	.37	.10	30.0	7.7	-.28	1.07	.04	-3.446	13.356	.439
35	.37	.10	29.9	7.7	-.28	1.10	.04	-3.533	13.706	.473
36	.37	.10	29.8	7.7	-.29	1.12	.04	-3.642	14.024	.515
37	.38	.10	30.1	7.8	-.30	1.16	.06	-3.777	14.549	.750
38	.37	.09	29.9	7.4	-.29	1.19	.04	-3.678	14.867	.549
39	.42	.08	33.7	6.7	-.27	1.37	.02	-3.438	17.146	.258
40	.40	.08	31.7	6.1	-.25	1.33	.04	-3.182	16.575	.468
41	.38	.07	30.5	5.9	-.25	1.31	.02	-3.161	16.332	.293
42	.34	.07	27.2	5.8	-.25	1.19	.04	-3.163	14.910	.561

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 210
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.07	-.09	5.7	-7.5	.01	.00	.01	.083	.062	.079
2	.10	-.08	8.3	-6.6	.02	.02	.00	.217	.273	.007
3	.07	-.04	6.0	-3.4	.01	.02	-.00	.170	.302	-.029
4	.09	-.04	6.9	-3.1	.02	.03	-.00	.195	.433	-.055
5	.10	-.03	7.7	-2.8	.02	.05	-.01	.211	.587	-.079
6	.11	-.03	8.6	-2.5	.02	.06	-.01	.218	.763	-.099
7	.12	-.03	9.5	-2.1	.02	.08	-.01	.215	.961	-.119
8	.13	-.03	10.1	-2.2	.02	.09	-.01	.251	1.155	-.132
9	.13	-.03	10.4	-2.6	.03	.11	-.01	.326	1.321	-.138
10	.13	-.04	10.7	-2.9	.03	.12	-.01	.412	1.494	-.145
11	.14	-.04	10.9	-3.4	.04	.13	-.01	.515	1.663	-.147
12	.14	-.05	11.1	-3.8	.05	.15	-.01	.629	1.829	-.150
13	.14	-.05	11.2	-4.2	.06	.16	-.01	.742	1.998	-.153
14	.14	-.06	11.3	-4.5	.07	.17	-.01	.852	2.154	-.152
15	.14	-.06	11.4	-4.7	.08	.18	-.01	.964	2.311	-.144
16	.14	-.06	11.5	-4.8	.08	.20	-.01	1.037	2.482	-.161
17	.15	-.06	11.7	-4.7	.09	.21	-.01	1.076	2.680	-.170
18	.15	-.06	11.9	-4.6	.09	.23	-.01	1.114	2.883	-.176
19	.15	-.06	12.3	-4.5	.09	.25	-.01	1.150	3.123	-.172
20	.16	-.06	12.6	-4.4	.09	.27	-.01	1.184	3.377	-.164
21	.16	-.05	12.9	-4.4	.10	.29	-.01	1.219	3.608	-.154
22	.16	-.05	12.9	-4.3	.10	.30	-.01	1.252	3.772	-.144
23	.16	-.05	12.9	-4.2	.10	.31	-.01	1.272	3.936	-.135
24	.17	-.05	13.3	-4.0	.10	.34	-.01	1.262	4.232	-.144
25	.17	-.05	13.8	-3.8	.10	.37	-.01	1.247	4.580	-.157
26	.18	-.04	14.4	-3.5	.10	.40	-.01	1.210	4.942	-.174
27	.18	-.04	14.7	-3.3	.09	.42	-.01	1.160	5.229	-.173
28	.19	-.04	14.9	-3.0	.09	.44	-.01	1.103	5.512	-.170
29	.19	-.03	15.2	-2.8	.08	.46	-.01	1.056	5.794	-.165
30	.19	-.03	15.4	-2.6	.08	.48	-.01	1.011	6.063	-.163
31	.19	-.03	15.6	-2.4	.08	.51	-.01	.966	6.337	-.161
32	.20	-.03	15.7	-2.2	.07	.53	-.01	.918	6.616	-.164
33	.21	-.02	16.5	-2.0	.07	.57	-.01	.865	7.129	-.168
34	.22	-.03	17.7	-2.1	.07	.63	-.01	.917	7.895	-.167
35	.23	-.03	18.4	-2.1	.08	.68	-.01	.974	8.452	-.157
36	.24	-.03	19.1	-2.2	.08	.72	-.01	1.020	8.990	-.143
37	.26	-.03	20.8	-2.2	.06	.80	.00	1.053	10.041	.054
38	.25	-.03	20.3	-2.1	.09	.81	-.01	1.066	10.084	-.107
39	.28	-.03	22.3	-2.1	.09	.91	-.02	1.066	11.341	-.270
40	.28	-.03	22.8	-2.0	.09	.95	-.01	1.064	11.878	-.132
41	.28	-.03	22.7	-2.0	.09	.97	-.03	1.080	12.156	-.318
42	.28	-.02	22.8	-2.0	.09	1.00	-.02	1.097	12.482	-.199

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

WIND DIRECTION 225
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.06	-.09	4.6	-7.2	.01	.00	.00	.079	.051	.014
2	.10	-.10	7.9	-7.7	.02	.02	-.00	.254	.260	-.025
3	.08	-.06	6.1	-4.7	.02	.02	-.00	.237	.305	-.032
4	.09	-.06	7.1	-4.9	.02	.04	-.00	.312	.451	-.044
5	.10	-.06	8.2	-5.1	.03	.05	-.00	.388	.624	-.055
6	.12	-.06	9.3	-5.1	.04	.07	-.00	.456	.825	-.059
7	.13	-.06	10.4	-5.2	.04	.08	-.01	.523	1.054	-.063
8	.14	-.07	11.1	-5.6	.05	.10	-.01	.642	1.271	-.078
9	.14	-.08	11.3	-6.4	.06	.11	-.01	.812	1.435	-.095
10	.14	-.09	11.5	-7.2	.08	.13	-.01	1.002	1.604	-.112
11	.14	-.10	11.6	-8.0	.10	.14	-.01	1.221	1.768	-.123
12	.15	-.11	11.7	-8.8	.12	.15	-.01	1.461	1.931	-.133
13	.15	-.12	11.8	-9.6	.14	.17	-.01	1.705	2.102	-.143
14	.15	-.13	12.0	-10.2	.16	.18	-.01	1.948	2.283	-.152
15	.15	-.14	12.1	-10.9	.18	.20	-.01	2.207	2.468	-.150
16	.15	-.14	12.3	-10.9	.19	.21	-.01	2.365	2.659	-.163
17	.16	-.14	12.5	-10.8	.20	.23	-.01	2.478	2.855	-.182
18	.16	-.13	12.6	-10.7	.21	.24	-.02	2.589	3.056	-.202
19	.16	-.13	13.1	-10.6	.22	.27	-.02	2.700	3.331	-.207
20	.17	-.13	13.6	-10.5	.22	.29	-.02	2.808	3.627	-.209
21	.17	-.13	14.0	-10.4	.23	.31	-.02	2.917	3.922	-.210
22	.18	-.13	14.3	-10.3	.24	.34	-.02	3.025	4.196	-.213
23	.18	-.13	14.7	-10.2	.25	.36	-.02	3.125	4.478	-.217
24	.19	-.13	15.1	-10.1	.26	.38	-.02	3.207	4.795	-.236
25	.19	-.12	15.5	-9.9	.26	.41	-.02	3.285	5.131	-.259
26	.20	-.12	15.9	-9.7	.27	.44	-.02	3.323	5.478	-.286
27	.20	-.12	16.3	-9.4	.27	.47	-.02	3.337	5.818	-.303
28	.21	-.11	16.7	-9.1	.27	.49	-.03	3.346	6.165	-.318
29	.21	-.11	17.1	-8.9	.27	.52	-.03	3.396	6.517	-.330
30	.22	-.11	17.4	-8.8	.28	.55	-.03	3.455	6.863	-.339
31	.22	-.11	17.7	-8.8	.29	.58	-.03	3.566	7.217	-.347
32	.23	-.11	18.0	-8.9	.30	.61	-.03	3.733	7.579	-.361
33	.23	-.11	18.7	-9.0	.31	.65	-.03	3.904	8.087	-.379
34	.25	-.12	19.8	-9.2	.33	.70	-.03	4.113	8.802	-.384
35	.26	-.12	20.6	-9.4	.35	.75	-.03	4.329	9.428	-.382
36	.27	-.12	21.3	-9.6	.36	.80	-.03	4.540	10.049	-.379
37	.29	-.12	23.4	-9.8	.38	.91	-.02	4.745	11.318	-.215
38	.29	-.12	22.9	-9.6	.38	.91	-.03	4.777	11.355	-.371
39	.29	-.12	23.4	-9.2	.38	.95	-.04	4.706	11.899	-.484
40	.30	-.11	23.7	-8.9	.37	.99	-.03	4.626	12.360	-.360
41	.28	-.10	22.4	-8.4	.36	.96	-.04	4.480	11.969	-.513
42	.28	-.10	22.8	-7.9	.35	1.00	-.04	4.316	12.480	-.439

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 240
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.08	-.29	6.6	-23.4	.02	.01	-.01	.258	.073	-.092
2	.19	-.35	14.9	-27.8	.07	.04	-.01	.918	.491	-.133
3	.15	-.23	12.4	-18.1	.07	.05	-.01	.911	.623	-.097
4	.19	-.24	15.1	-19.3	.10	.08	-.01	1.216	.955	-.119
5	.22	-.25	17.9	-20.3	.12	.11	-.01	1.543	1.358	-.138
6	.26	-.26	20.7	-21.1	.15	.15	-.01	1.867	1.831	-.141
7	.29	-.27	23.4	-21.8	.18	.19	-.01	2.209	2.374	-.145
8	.31	-.28	25.1	-22.4	.20	.23	-.01	2.555	2.859	-.156
9	.31	-.29	24.9	-22.9	.23	.25	-.01	2.905	3.162	-.147
10	.31	-.29	24.8	-23.4	.26	.28	-.01	3.271	3.461	-.140
11	.31	-.30	24.6	-24.1	.29	.30	-.01	3.668	3.744	-.138
12	.30	-.31	24.3	-24.7	.33	.32	-.01	4.081	4.006	-.138
13	.30	-.32	24.0	-25.3	.36	.34	-.01	4.495	4.262	-.138
14	.30	-.32	23.7	-25.7	.39	.36	-.01	4.907	4.510	-.142
15	.29	-.33	23.4	-26.3	.43	.38	-.01	5.347	4.750	-.154
16	.29	-.34	23.4	-26.9	.47	.40	-.01	5.820	5.056	-.120
17	.30	-.34	24.1	-27.6	.51	.44	-.01	6.321	5.508	-.124
18	.31	-.35	24.7	-28.3	.55	.48	-.01	6.838	5.977	-.126
19	.32	-.36	25.5	-29.0	.59	.52	-.01	7.373	6.479	-.117
20	.33	-.37	26.2	-29.7	.63	.56	-.01	7.924	7.002	-.107
21	.34	-.38	27.0	-30.3	.68	.60	-.01	8.473	7.543	-.098
22	.35	-.39	27.7	-30.9	.72	.65	-.01	9.031	8.101	-.088
23	.35	-.39	28.4	-31.3	.77	.69	-.01	9.566	8.678	-.080
24	.36	-.39	29.2	-31.5	.80	.74	-.01	10.018	9.293	-.101
25	.37	-.39	30.0	-31.7	.84	.79	-.01	10.474	9.935	-.129
26	.38	-.40	30.8	-31.9	.88	.85	-.01	10.945	10.598	-.156
27	.40	-.40	31.7	-32.1	.91	.90	-.01	11.426	11.309	-.174
28	.41	-.40	32.6	-32.3	.95	.96	-.02	11.907	12.046	-.192
29	.42	-.40	33.5	-32.2	.98	1.02	-.02	12.310	12.795	-.200
30	.43	-.40	34.3	-32.0	1.01	1.08	-.02	12.627	13.525	-.208
31	.44	-.40	35.0	-31.8	1.04	1.14	-.02	12.965	14.278	-.228
32	.45	-.40	35.8	-32.0	1.08	1.20	-.02	13.450	15.049	-.256
33	.46	-.40	37.2	-32.2	1.11	1.29	-.02	13.940	16.104	-.298
34	.49	-.40	39.3	-32.3	1.15	1.40	-.03	14.385	17.535	-.327
35	.52	-.40	41.5	-32.4	1.19	1.52	-.03	14.830	19.006	-.370
36	.54	-.40	43.5	-32.4	1.22	1.64	-.03	15.272	20.498	-.410
37	.60	-.41	47.9	-32.5	1.26	1.85	-.02	15.712	23.179	-.239
38	.55	-.39	43.8	-31.5	1.25	1.74	-.03	15.626	21.772	-.404
39	.48	-.37	38.6	-29.9	1.22	1.57	-.03	15.225	19.638	-.421
40	.49	-.35	38.9	-28.3	1.18	1.63	-.03	14.783	20.335	-.321
41	.45	-.33	35.9	-26.2	1.12	1.53	-.04	13.989	19.189	-.513
42	.46	-.30	36.7	-23.9	1.05	1.61	-.04	13.107	20.095	-.516

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 255
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.08	-.56	6.5	-45.2	.04	.01	-.01	.498	.072	-.099
2	.21	-.61	16.8	-49.0	.13	.04	-.01	1.617	.554	-.178
3	.18	-.38	14.4	-30.1	.12	.06	-.01	1.515	.726	-.140
4	.22	-.39	17.8	-31.1	.16	.09	-.01	1.962	1.126	-.171
5	.27	-.40	21.3	-31.9	.19	.13	-.02	2.420	1.614	-.193
6	.31	-.40	24.7	-32.0	.23	.18	-.01	2.832	2.190	-.179
7	.35	-.40	28.2	-32.0	.26	.23	-.01	3.246	2.854	-.165
8	.38	-.40	30.1	-32.2	.29	.27	-.01	3.671	3.432	-.148
9	.37	-.40	29.6	-32.4	.33	.30	-.01	4.106	3.757	-.098
10	.36	-.41	29.1	-32.6	.36	.33	-.00	4.548	4.070	-.049
11	.35	-.41	28.4	-32.8	.40	.35	-.00	5.005	4.333	-.021
12	.34	-.41	27.6	-33.1	.44	.36	.00	5.469	4.556	.000
13	.33	-.42	26.8	-33.3	.47	.38	.00	5.925	4.764	.021
14	.33	-.42	26.1	-33.4	.51	.40	.00	6.372	4.971	.027
15	.32	-.42	25.4	-33.7	.55	.41	.00	6.848	5.160	.024
16	.31	-.43	24.9	-34.5	.60	.43	.01	7.455	5.386	.066
17	.31	-.44	24.9	-35.6	.65	.46	.01	8.154	5.707	.079
18	.31	-.46	24.9	-36.7	.71	.48	.01	8.874	6.028	.094
19	.31	-.47	25.1	-37.8	.77	.51	.01	9.610	6.383	.112
20	.32	-.48	25.3	-38.8	.83	.54	.01	10.373	6.746	.130
21	.32	-.50	25.4	-39.8	.89	.57	.01	11.139	7.098	.147
22	.32	-.51	25.3	-40.7	.95	.59	.01	11.922	7.417	.159
23	.32	-.52	25.3	-41.5	1.01	.62	.01	12.663	7.735	.166
24	.32	-.52	25.8	-41.7	1.06	.66	.01	13.253	8.207	.158
25	.33	-.52	26.4	-41.9	1.11	.70	.01	13.848	8.739	.150
26	.34	-.52	27.0	-42.0	1.15	.74	.01	14.441	9.288	.144
27	.35	-.53	27.7	-42.2	1.20	.79	.01	15.034	9.873	.140
28	.35	-.53	28.4	-42.3	1.25	.84	.01	15.628	10.478	.137
29	.36	-.53	29.0	-42.5	1.29	.89	.01	16.171	11.078	.140
30	.37	-.53	29.5	-42.2	1.33	.93	.01	16.672	11.633	.140
31	.37	-.53	29.9	-42.4	1.38	.98	.01	17.292	12.200	.134
32	.38	-.54	30.4	-43.2	1.45	1.02	.01	18.130	12.779	.123
33	.40	-.55	31.7	-43.9	1.52	1.10	.01	18.985	13.730	.092
34	.41	-.55	33.0	-44.4	1.58	1.18	.01	19.768	14.704	.110
35	.43	-.56	34.1	-44.9	1.64	1.25	.01	20.561	15.638	.113
36	.44	-.57	35.3	-45.4	1.71	1.33	.01	21.405	16.631	.108
37	.49	-.58	39.3	-46.1	1.78	1.52	.02	22.308	19.012	.188
38	.44	-.56	35.2	-44.8	1.78	1.40	.01	22.258	17.460	.077
39	.38	-.53	30.5	-42.5	1.73	1.24	.01	21.639	15.555	.098
40	.38	-.50	30.5	-40.1	1.68	1.27	.01	20.961	15.930	.176
41	.34	-.47	27.1	-37.5	1.60	1.16	.01	20.059	14.502	.090
42	.35	-.43	28.2	-34.8	1.53	1.24	.00	19.072	15.454	.044

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

WIND DIRECTION 270
REF. PRESS = 23.0 PSF GUST FACTOR = 1.52 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	.05	-.62	3.8	-49.8	.04	.00	-.02	.548	.042	-.264
2	.17	-.65	13.5	-51.7	.14	.04	-.02	1.707	.446	-.293
3	.15	-.39	12.3	-30.9	.12	.05	-.01	1.555	.618	-.184
4	.19	-.39	15.5	-31.4	.16	.08	-.02	1.984	.980	-.202
5	.23	-.40	18.8	-31.9	.19	.11	-.02	2.417	1.424	-.214
6	.27	-.40	22.0	-31.7	.22	.16	-.02	2.809	1.952	-.200
7	.32	-.39	25.3	-31.5	.26	.20	-.01	3.198	2.563	-.186
8	.34	-.40	27.2	-31.8	.29	.25	-.01	3.630	3.105	-.164
9	.34	-.40	27.0	-32.3	.33	.27	-.01	4.104	3.430	-.097
10	.34	-.41	26.9	-32.9	.37	.30	-.00	4.590	3.750	-.031
11	.33	-.41	26.5	-33.2	.41	.32	.00	5.065	4.035	.026
12	.32	-.42	26.0	-33.6	.44	.34	.01	5.551	4.286	.077
13	.32	-.42	25.5	-33.9	.48	.36	.01	6.027	4.533	.129
14	.31	-.42	25.1	-34.0	.52	.38	.01	6.491	4.793	.169
15	.31	-.43	24.8	-34.3	.56	.40	.02	6.984	5.044	.199
16	.30	-.44	24.3	-34.9	.60	.42	.02	7.542	5.261	.224
17	.30	-.45	23.7	-35.7	.65	.43	.02	8.182	5.418	.249
18	.29	-.46	23.0	-36.5	.71	.44	.02	8.827	5.557	.276
19	.28	-.46	22.4	-37.2	.76	.46	.02	9.462	5.697	.293
20	.27	-.47	21.8	-37.9	.81	.47	.02	10.114	5.824	.309
21	.26	-.48	21.2	-38.4	.86	.48	.03	10.756	5.941	.330
22	.26	-.49	20.7	-39.0	.91	.48	.03	11.405	6.055	.357
23	.25	-.49	20.2	-39.5	.97	.49	.03	12.077	6.155	.382
24	.25	-.50	20.0	-40.2	1.02	.51	.03	12.802	6.355	.385
25	.25	-.51	19.9	-40.9	1.08	.53	.03	13.544	6.587	.385
26	.25	-.52	19.8	-41.5	1.14	.55	.03	14.268	6.816	.384
27	.25	-.52	19.7	-42.1	1.20	.56	.03	14.988	7.013	.388
28	.24	-.53	19.5	-42.6	1.26	.58	.03	15.718	7.202	.394
29	.24	-.54	19.3	-43.0	1.31	.59	.03	16.402	7.382	.412
30	.24	-.54	19.1	-43.6	1.38	.60	.04	17.197	7.545	.453
31	.24	-.55	18.9	-44.3	1.44	.62	.04	18.060	7.703	.493
32	.23	-.56	18.7	-44.9	1.51	.63	.04	18.870	7.856	.508
33	.24	-.57	19.4	-45.5	1.58	.67	.04	19.694	8.378	.506
34	.25	-.57	20.3	-46.0	1.64	.72	.04	20.492	9.059	.529
35	.26	-.58	21.1	-46.5	1.70	.77	.04	21.300	9.666	.543
36	.27	-.59	21.8	-46.9	1.77	.82	.04	22.118	10.283	.554
37	.30	-.59	24.4	-47.4	1.84	.94	.05	22.945	11.789	.667
38	.27	-.56	21.6	-46.2	1.84	.86	.05	22.944	10.740	.577
39	.23	-.55	18.8	-44.1	1.80	.77	.04	22.449	9.583	.472
40	.23	-.52	18.8	-41.9	1.75	.78	.05	21.900	9.801	.596
41	.20	-.50	16.3	-39.8	1.70	.70	.04	21.309	8.731	.556
42	.20	-.47	16.1	-37.7	1.65	.70	.05	20.666	8.801	.648

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 285
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.00	-.43	-.3	-34.8	.03	-.00	-.02	.383	-.003	-.302
2	.08	-.42	6.2	-34.0	.09	.02	-.03	1.122	.204	-.356
3	.08	-.24	6.5	-19.3	.08	.03	-.02	.974	.329	-.231
4	.11	-.24	8.7	-19.1	.10	.04	-.02	1.205	.549	-.250
5	.14	-.23	10.9	-18.8	.11	.07	-.02	1.428	.825	-.265
6	.16	-.23	13.0	-18.4	.13	.09	-.02	1.631	1.155	-.269
7	.19	-.22	15.2	-18.0	.15	.12	-.02	1.823	1.542	-.273
8	.21	-.22	16.7	-17.9	.16	.15	-.02	2.041	1.911	-.262
9	.22	-.22	17.3	-18.0	.18	.18	-.02	2.286	2.195	-.216
10	.22	-.23	17.9	-18.1	.20	.20	-.01	2.534	2.493	-.171
11	.23	-.23	18.2	-18.3	.22	.22	-.01	2.781	2.779	-.117
12	.23	-.23	18.5	-18.4	.24	.24	-.00	3.031	3.061	-.054
13	.24	-.23	18.9	-18.4	.26	.27	.00	3.270	3.356	.009
14	.24	-.23	19.3	-18.3	.28	.29	.01	3.493	3.679	.064
15	.25	-.23	19.7	-18.4	.30	.32	.01	3.742	4.013	.113
16	.25	-.24	19.8	-19.2	.33	.34	.01	4.142	4.276	.114
17	.24	-.26	19.1	-21.0	.38	.35	.01	4.801	4.379	.157
18	.23	-.28	18.5	-22.7	.44	.36	.02	5.478	4.466	.206
19	.22	-.30	17.9	-24.2	.49	.36	.02	6.153	4.549	.248
20	.22	-.32	17.3	-25.7	.55	.37	.02	6.867	4.618	.289
21	.21	-.34	16.7	-27.2	.61	.37	.03	7.602	4.662	.332
22	.20	-.36	15.9	-28.6	.67	.37	.03	8.368	4.667	.378
23	.19	-.37	15.2	-29.9	.73	.37	.03	9.140	4.653	.418
24	.18	-.39	14.5	-31.0	.79	.37	.03	9.868	4.607	.431
25	.17	-.40	13.7	-32.1	.85	.36	.04	10.624	4.538	.441
26	.16	-.41	12.9	-33.1	.91	.36	.04	11.366	4.450	.452
27	.15	-.42	12.1	-34.0	.97	.35	.04	12.112	4.322	.455
28	.14	-.44	11.3	-34.9	1.03	.33	.04	12.879	4.170	.458
29	.13	-.45	10.5	-35.7	1.09	.32	.04	13.652	4.006	.466
30	.12	-.46	9.7	-37.2	1.17	.31	.04	14.687	3.846	.535
31	.11	-.48	9.0	-38.8	1.26	.29	.05	15.792	3.666	.619
32	.10	-.49	8.3	-39.6	1.33	.28	.05	16.654	3.467	.639
33	.10	-.51	7.7	-40.5	1.40	.27	.05	17.538	3.323	.653
34	.09	-.51	7.3	-41.2	1.47	.26	.05	18.345	3.236	.683
35	.08	-.52	6.6	-41.8	1.53	.24	.06	19.165	3.026	.715
36	.07	-.53	5.9	-42.6	1.61	.22	.06	20.068	2.766	.739
37	.07	-.54	5.4	-43.5	1.68	.21	.07	21.066	2.609	.868
38	.07	-.53	5.5	-42.8	1.70	.22	.06	21.264	2.742	.756
39	.08	-.51	6.7	-41.2	1.68	.27	.05	20.988	3.435	.633
40	.08	-.49	6.7	-39.6	1.65	.28	.06	20.671	3.500	.737
41	.07	-.50	5.9	-40.1	1.71	.25	.05	21.423	3.144	.675
42	.06	-.51	4.6	-40.7	1.78	.20	.07	22.306	2.498	.830

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 300
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.05	-.41	-3.9	-33.1	.03	-.00	-.02	.364	-.042	-.198
2	-.02	-.40	-2.0	-32.3	.09	-.01	-.02	1.065	-.065	-.216
3	-.00	-.23	-.3	-18.4	.07	-.00	-.01	.925	-.014	-.134
4	.00	-.23	.4	-18.4	.09	.00	-.01	1.160	.023	-.145
5	.01	-.23	1.0	-18.3	.11	.01	-.01	1.392	.076	-.155
6	.02	-.23	1.6	-18.2	.13	.01	-.01	1.614	.146	-.161
7	.03	-.23	2.3	-18.1	.15	.02	-.01	1.832	.231	-.166
8	.03	-.23	2.5	-18.1	.17	.02	-.01	2.070	.285	-.150
9	.03	-.23	2.0	-18.3	.19	.02	-.01	2.327	.259	-.107
10	.02	-.23	1.6	-18.5	.21	.02	-.01	2.589	.221	-.064
11	.01	-.23	1.0	-18.7	.23	.01	-.00	2.857	.157	-.018
12	.01	-.24	.4	-19.0	.25	.01	.00	3.130	.069	.034
13	-.00	-.24	-.2	-19.1	.27	-.00	.01	3.396	-.032	.082
14	-.01	-.24	-.5	-19.1	.29	-.01	.01	3.650	-.096	.115
15	-.01	-.24	-.8	-19.4	.31	-.01	.01	3.937	-.169	.143
16	-.01	-.23	-1.1	-18.2	.31	-.02	.00	3.924	-.241	.049
17	-.02	-.25	-1.3	-20.0	.37	-.02	.00	4.586	-.302	.015
18	-.02	-.27	-1.5	-21.8	.42	-.03	-.00	5.265	-.367	-.014
19	-.02	-.29	-1.4	-23.3	.47	-.03	-.00	5.938	-.347	-.026
20	-.01	-.31	-1.2	-24.9	.53	-.02	-.00	6.651	-.308	-.037
21	-.01	-.33	-1.0	-26.5	.59	-.02	-.00	7.411	-.270	-.050
22	-.01	-.35	-.8	-28.1	.66	-.02	-.00	8.213	-.244	-.055
23	-.01	-.37	-.7	-29.4	.72	-.02	-.01	8.968	-.214	-.067
24	-.00	-.37	-.3	-30.0	.76	-.01	-.01	9.535	-.103	-.101
25	.00	-.38	.1	-30.6	.81	.00	-.01	10.117	.041	-.137
26	.01	-.39	.6	-31.4	.86	.02	-.01	10.779	.198	-.187
27	.01	-.40	.9	-32.5	.92	.02	-.02	11.494	.312	-.224
28	.01	-.41	1.2	-33.1	.98	.03	-.02	12.225	.428	-.258
29	.02	-.42	1.5	-33.8	1.03	.05	-.02	12.895	.565	-.289
30	.02	-.44	1.9	-35.5	1.12	.06	-.02	14.012	.749	-.244
31	.03	-.47	2.3	-37.6	1.23	.08	-.01	15.332	.944	-.175
32	.03	-.48	2.7	-38.9	1.31	.09	-.02	16.328	1.150	-.193
33	.03	-.50	2.3	-40.1	1.39	.08	-.02	17.355	1.001	-.212
34	.03	-.51	2.1	-40.8	1.45	.07	-.02	18.192	.919	-.220
35	.02	-.52	1.9	-41.5	1.52	.07	-.02	19.040	.870	-.231
36	.02	-.53	1.7	-42.5	1.60	.06	-.02	20.038	.794	-.261
37	.01	-.55	.6	-43.8	1.70	.03	-.02	21.209	.409	-.214
38	.03	-.54	2.1	-43.5	1.72	.09	-.02	21.517	1.064	-.260
39	.04	-.52	3.5	-41.9	1.70	.14	-.04	21.318	1.764	-.441
40	.03	-.52	2.4	-40.4	1.69	.10	-.03	21.082	1.227	-.387
41	.03	-.53	2.1	-42.2	1.81	.09	-.03	22.585	1.112	-.435
42	.02	-.55	1.6	-44.4	1.95	.07	-.02	24.325	.850	-.274

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

WIND DIRECTION 315
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.04	-.46	-3.1	-37.1	.03	-.00	-.01	.408	-.034	-.084
2	-.04	-.47	-3.5	-37.6	.10	-.01	-.01	1.242	-.116	-.096
3	-.03	-.28	-2.2	-22.1	.09	-.01	-.00	1.114	-.112	-.062
4	-.03	-.28	-2.4	-22.6	.11	-.01	-.01	1.424	-.149	-.066
5	-.03	-.29	-2.5	-23.0	.14	-.02	-.01	1.743	-.190	-.068
6	-.03	-.29	-2.6	-23.3	.17	-.02	-.00	2.065	-.234	-.061
7	-.03	-.29	-2.8	-23.6	.19	-.02	-.00	2.396	-.281	-.055
8	-.05	-.30	-3.7	-23.8	.22	-.03	-.00	2.713	-.424	-.030
9	-.07	-.30	-5.9	-23.8	.24	-.06	.00	3.016	-.751	.018
10	-.10	-.30	-8.1	-23.8	.27	-.09	.01	3.317	-1.135	.065
11	-.13	-.29	-10.1	-23.6	.29	-.12	.01	3.598	-1.542	.093
12	-.15	-.29	-11.9	-23.5	.31	-.16	.01	3.875	-1.972	.111
13	-.17	-.29	-13.7	-23.3	.33	-.20	.01	4.151	-2.439	.128
14	-.19	-.29	-15.1	-23.2	.35	-.23	.01	4.427	-2.877	.137
15	-.21	-.29	-16.5	-23.2	.38	-.27	.01	4.724	-3.351	.144
16	-.22	-.27	-17.5	-21.8	.38	-.30	.00	4.709	-3.775	.012
17	-.22	-.29	-17.7	-23.3	.43	-.32	-.00	5.326	-4.055	-.051
18	-.22	-.31	-18.0	-24.7	.48	-.35	-.01	5.968	-4.341	-.114
19	-.23	-.32	-18.2	-26.0	.53	-.37	-.01	6.623	-4.627	-.154
20	-.23	-.34	-18.4	-27.4	.58	-.39	-.02	7.312	-4.917	-.191
21	-.23	-.36	-18.6	-28.8	.64	-.42	-.02	8.053	-5.217	-.234
22	-.24	-.38	-18.9	-30.2	.71	-.44	-.02	8.835	-5.535	-.279
23	-.24	-.39	-19.2	-31.4	.77	-.47	-.03	9.586	-5.859	-.331
24	-.24	-.40	-19.1	-32.1	.82	-.49	-.03	10.196	-6.066	-.382
25	-.23	-.41	-18.8	-32.7	.87	-.50	-.03	10.823	-6.232	-.429
26	-.23	-.42	-18.6	-33.5	.92	-.51	-.04	11.515	-6.391	-.484
27	-.23	-.43	-18.4	-34.4	.98	-.52	-.04	12.252	-6.550	-.542
28	-.23	-.44	-18.2	-35.3	1.04	-.54	-.05	13.012	-6.704	-.600
29	-.22	-.45	-17.9	-36.2	1.10	-.55	-.05	13.812	-6.844	-.653
30	-.22	-.47	-17.6	-37.9	1.20	-.56	-.05	14.943	-6.953	-.644
31	-.22	-.50	-17.3	-39.7	1.29	-.56	-.05	16.172	-7.055	-.613
32	-.21	-.51	-17.0	-40.7	1.37	-.57	-.05	17.105	-7.149	-.616
33	-.21	-.52	-16.8	-41.7	1.44	-.58	-.05	18.064	-7.292	-.614
34	-.21	-.53	-17.0	-42.6	1.52	-.61	-.05	19.005	-7.573	-.632
35	-.21	-.54	-16.9	-43.6	1.60	-.62	-.05	19.969	-7.758	-.630
36	-.21	-.56	-16.8	-44.6	1.68	-.63	-.05	21.008	-7.893	-.630
37	-.21	-.57	-17.1	-45.7	1.77	-.66	-.04	22.132	-8.280	-.513
38	-.20	-.56	-16.1	-45.0	1.79	-.64	-.05	22.345	-8.018	-.636
39	-.21	-.54	-16.7	-43.2	1.76	-.68	-.08	22.021	-8.528	-1.035
40	-.19	-.52	-15.3	-41.5	1.75	-.64	-.08	21.651	-7.991	-.998
41	-.18	-.52	-14.2	-41.3	1.77	-.61	-.08	22.089	-7.589	-1.053
42	-.13	-.52	-10.3	-41.3	1.81	-.45	-.07	22.613	-5.626	-.881

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.--50-YR. RECURRENCE WIND

WIND DIRECTION 330
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.02	-.34	-1.7	-27.1	.02	-.00	-.00	.298	-.019	-.015
2	-.05	-.37	-3.7	-29.4	.08	-.01	-.00	.969	-.124	-.058
3	-.04	-.23	-3.1	-18.1	.07	-.01	-.00	.912	-.155	-.053
4	-.05	-.24	-3.8	-19.2	.10	-.02	-.01	1.209	-.237	-.070
5	-.06	-.25	-4.4	-20.1	.12	-.03	-.01	1.529	-.336	-.086
6	-.06	-.26	-5.1	-20.9	.15	-.04	-.01	1.853	-.452	-.097
7	-.07	-.27	-5.8	-21.7	.18	-.05	-.01	2.196	-.585	-.107
8	-.09	-.27	-7.1	-22.0	.20	-.07	-.01	2.512	-.815	-.085
9	-.12	-.28	-9.6	-22.1	.22	-.10	-.00	2.799	-1.223	-.041
10	-.15	-.28	-12.1	-22.1	.25	-.14	.00	3.087	-1.694	.002
11	-.18	-.28	-14.3	-22.1	.27	-.17	.00	3.367	-2.186	.038
12	-.20	-.28	-16.4	-22.1	.29	-.22	.01	3.646	-2.707	.071
13	-.23	-.28	-18.4	-22.1	.31	-.26	.01	3.927	-3.269	.102
14	-.25	-.28	-20.0	-22.1	.34	-.30	.01	4.211	-3.803	.128
15	-.27	-.28	-21.5	-22.2	.36	-.35	.01	4.509	-4.378	.158
16	-.29	-.27	-23.0	-21.2	.37	-.40	.01	4.590	-4.962	.078
17	-.30	-.28	-24.1	-22.1	.41	-.44	.00	5.065	-5.522	.046
18	-.32	-.29	-25.3	-23.1	.45	-.49	.00	5.570	-6.112	.013
19	-.33	-.30	-26.6	-24.0	.49	-.54	.00	6.109	-6.765	.008
20	-.35	-.31	-27.9	-25.0	.53	-.60	.00	6.672	-7.457	.008
21	-.36	-.32	-29.1	-26.0	.58	-.65	.00	7.273	-8.155	.005
22	-.38	-.34	-30.1	-27.0	.63	-.71	.00	7.902	-8.820	.005
23	-.39	-.35	-31.1	-28.0	.68	-.76	-.00	8.559	-9.511	-.003
24	-.39	-.36	-31.6	-29.1	.74	-.80	-.00	9.246	-10.040	-.053
25	-.40	-.38	-31.8	-30.1	.80	-.84	-.01	9.960	-10.521	-.109
26	-.40	-.39	-32.0	-31.1	.86	-.88	-.01	10.693	-11.009	-.164
27	-.40	-.40	-32.2	-32.1	.92	-.92	-.02	11.447	-11.489	-.197
28	-.40	-.41	-32.4	-33.1	.98	-.96	-.02	12.224	-11.972	-.226
29	-.41	-.42	-32.6	-34.0	1.04	-1.00	-.02	12.990	-12.455	-.252
30	-.41	-.44	-32.8	-35.5	1.12	-1.03	-.02	13.996	-12.930	-.245
31	-.41	-.46	-32.9	-37.1	1.21	-1.07	-.02	15.094	-13.409	-.229
32	-.41	-.48	-33.1	-38.1	1.28	-1.11	-.02	16.009	-13.892	-.243
33	-.42	-.49	-33.6	-39.2	1.36	-1.16	-.02	16.950	-14.529	-.225
34	-.42	-.50	-33.9	-40.3	1.44	-1.21	-.02	17.943	-15.094	-.267
35	-.42	-.52	-34.0	-41.4	1.52	-1.25	-.02	18.965	-15.586	-.264
36	-.43	-.53	-34.2	-42.4	1.60	-1.29	-.02	19.959	-16.117	-.238
37	-.41	-.54	-32.6	-43.2	1.67	-1.26	-.02	20.914	-15.771	-.213
38	-.40	-.52	-31.8	-41.6	1.66	-1.26	-.02	20.781	-15.786	-.268
39	-.42	-.49	-33.7	-39.3	1.60	-1.37	-.05	20.002	-17.189	-.609
40	-.37	-.46	-29.6	-36.7	1.53	-1.24	-.05	19.156	-15.472	-.606
41	-.35	-.44	-27.7	-35.0	1.50	-1.18	-.05	18.724	-14.797	-.607
42	-.27	-.42	-21.4	-33.4	1.46	-.94	-.04	18.299	-11.721	-.464

TABLE 8.

FLOOR FORCE AND MOMENT LOADS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

WIND DIRECTION 345
REF. PRESS = 23.0 PSF GUST FACTOR = 1.32 REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT.

FLOOR	CFX	CFY	FORCE(X) (KIPS)	FORCE(Y) (KIPS)	CMX	CMY	CMZ	MOM(X)	MOM(Y) (1000-FT-KIPS)	MOM(Z)
1	-.11	-.28	-8.9	-22.2	.02	-.01	-.00	.244	-.098	-.019
2	-.17	-.33	-13.6	-26.3	.07	-.04	-.00	.867	-.449	-.019
3	-.13	-.21	-10.0	-17.2	.07	-.04	-.00	.864	-.506	-.012
4	-.15	-.23	-11.6	-18.8	.09	-.06	-.00	1.187	-.734	-.023
5	-.16	-.25	-13.2	-20.3	.12	-.08	-.00	1.541	-1.003	-.034
6	-.18	-.26	-14.8	-21.2	.15	-.10	-.00	1.878	-1.312	-.048
7	-.20	-.28	-16.4	-22.1	.18	-.13	-.00	2.238	-1.661	-.062
8	-.23	-.28	-18.1	-22.4	.20	-.17	-.00	2.551	-2.065	-.034
9	-.25	-.28	-20.0	-22.2	.23	-.20	.00	2.817	-2.537	.025
10	-.27	-.28	-21.9	-22.0	.25	-.24	.01	3.078	-3.058	.083
11	-.30	-.27	-23.8	-21.8	.27	-.29	.01	3.325	-3.632	.129
12	-.32	-.27	-25.7	-21.6	.29	-.34	.01	3.567	-4.249	.172
13	-.34	-.27	-27.6	-21.3	.30	-.39	.02	3.794	-4.902	.210
14	-.36	-.26	-29.0	-21.0	.32	-.44	.02	4.004	-5.520	.244
15	-.38	-.26	-30.4	-20.9	.34	-.49	.02	4.250	-6.174	.278
16	-.39	-.25	-31.5	-20.2	.35	-.55	.02	4.376	-6.818	.215
17	-.40	-.26	-32.3	-20.7	.38	-.59	.02	4.749	-7.402	.203
18	-.41	-.27	-33.1	-21.3	.41	-.64	.02	5.139	-8.008	.192
19	-.42	-.27	-34.0	-21.8	.44	-.69	.02	5.553	-8.639	.205
20	-.43	-.28	-34.8	-22.4	.48	-.74	.02	5.980	-9.291	.223
21	-.44	-.29	-35.6	-22.9	.51	-.80	.02	6.419	-9.960	.235
22	-.45	-.29	-36.4	-23.5	.55	-.85	.02	6.871	-10.638	.255
23	-.46	-.30	-37.1	-23.9	.58	-.91	.02	7.306	-11.335	.274
24	-.47	-.30	-37.7	-24.1	.61	-.96	.02	7.673	-11.983	.268
25	-.48	-.30	-38.2	-24.3	.64	-1.01	.02	8.045	-12.624	.256
26	-.48	-.31	-38.6	-24.6	.68	-1.06	.02	8.457	-13.277	.226
27	-.49	-.31	-39.2	-25.0	.71	-1.12	.02	8.894	-13.986	.208
28	-.50	-.32	-39.9	-25.3	.75	-1.18	.02	9.341	-14.715	.194
29	-.50	-.32	-40.3	-25.8	.79	-1.23	.02	9.835	-15.403	.188
30	-.50	-.33	-40.4	-26.7	.84	-1.28	.02	10.528	-15.949	.203
31	-.51	-.35	-40.5	-27.9	.91	-1.32	.02	11.376	-16.497	.225
32	-.51	-.36	-40.6	-29.0	.97	-1.36	.02	12.169	-17.046	.227
33	-.52	-.37	-41.4	-30.0	1.04	-1.43	.02	12.988	-17.904	.230
34	-.53	-.38	-42.2	-30.5	1.09	-1.50	.02	13.605	-18.792	.220
35	-.53	-.39	-42.3	-31.0	1.14	-1.55	.02	14.227	-19.372	.242
36	-.53	-.40	-42.3	-31.7	1.20	-1.59	.02	14.942	-19.908	.265
37	-.51	-.41	-40.5	-32.6	1.26	-1.57	.03	15.763	-19.596	.362
38	-.51	-.39	-40.8	-31.5	1.25	-1.62	.03	15.659	-20.281	.328
39	-.58	-.37	-46.2	-29.5	1.20	-1.88	.00	15.007	-23.559	.021
40	-.52	-.34	-41.4	-27.4	1.14	-1.73	.00	14.302	-21.625	.061
41	-.48	-.33	-38.7	-26.3	1.13	-1.66	.00	14.080	-20.710	.012
42	-.39	-.32	-31.1	-25.4	1.11	-1.56	.02	13.889	-17.048	.226

TABLE 8.

FLOOR FORCE AND MOMENT LOADS: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA. --50-YR. RECURRENCE WIND

INPUT PARAMETERS : PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.
MODEL SCALE = 1:400 REF. PRESS. = 23.0 PSF GUST FACTOR = 1.32
REF. AREA = 2000 SQ.FT. REF. LENGTH = 156 FT BUILDING HEIGHT = 554 FT
BUILDING HAS 42 FLOORS STANDARD FLOOR HEIGHT = 12.8 FT
NON-STANDARD FLOORS:

FLOOR	HEIGHT (FT)
1	22.0
2	22.0

SIDE DATA:

SIDE ID	ANGLE (DEG)	Z-AXIS POSITION (FT)
1101	0	78.0
2301	90	78.0
3101	180	78.0
4301	270	78.0

TABLE 9

MODEL AND PROTOTYPE AEROELASTIC SCALING RATIOS

Quantity	Prototype	Model	Prototype/Model
Height	557 ft*	16.7 in.	400
Moment of inertia	8.5×10^{9} ft^2-kips**	105 in.^{2}-lbs	1.16×10^{13}
Frequency	0.22 Hz*	11 Hz	.0202
Building density	6.3 lb/ft^3	6.3 lb/ft^3	1.0
Air density	2.2×10^{-3} slugs/ft^3	1.9×10^{-3} slugs/ft^3	1.14
Velocity (of air)	--	--	8.06
Acceleration (of building)	--	--	0.1632
Moments	--	--	4.75×10^{9}

*supplied by sponsor
**estimated from information supplied by sponsor

APPENDIX A

PRESSURE DATA

Note: Pressure coefficients are defined in Section 4.3.

Pressure tap designation is explained in Figure 3.

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	110	.148	.139	.726	-.296
0	111	-.021	.232	.763	-.740
0	112	.381	.162	1.023	-.157
0	130	-.182	.081	.092	-.494
0	140	-.221	.073	.019	-.586
0	141	-.233	.073	.001	-.607
0	142	-.226	.069	-.000	-.513
0	143	-.252	.075	-.009	-.607
0	144	-.220	.064	-.035	-.481
0	145	-.231	.075	.023	-.670
0	220	.115	.251	.737	-1.092
0	221	-.408	.102	-.068	-.834
0	230	-.348	.094	-.075	-.803
0	231	-.359	.106	-.067	-.759
0	310	.149	.149	.597	-.775
0	320	.171	.110	.571	-.125
0	321	-.166	.063	.004	-.488
0	322	.287	.138	.817	-.502
0	323	-.257	.076	-.039	-.593
0	324	.367	.154	.918	-.100
0	325	-.227	.075	-.005	-.934
0	330	-.169	.057	.020	-.473
0	331	-.204	.065	-.040	-.458
0	332	-.210	.064	-.054	-.504
0	410	-.175	.155	.567	-.716
0	411	-.006	.165	.602	-.535
0	440	-.251	.112	.015	-1.052
0	441	-.289	.160	.080	-1.176
0	901	-.376	.099	-.005	-.765
0	902	-.339	.089	-.036	-.709
0	903	-.304	.081	-.032	-.607
0	904	-.297	.106	.079	-.824
0	905	-.261	.074	-.060	-.582
0	906	-.192	.079	.296	-.500
0	907	-.201	.076	.138	-.525
0	908	-.098	.135	.416	-.513
0	909	-.301	.086	.027	-.619
0	910	-.321	.096	-.023	-.697
0	911	-.281	.087	-.015	-.676
0	912	-.250	.054	-.096	-.447
0	1101	-.323	.132	.531	-.876
0	1102	.341	.156	.956	-.049
0	1103	.275	.139	.918	-.082
0	1104	.226	.135	.875	-.113
0	1105	.165	.150	.793	-.351
0	1106	.279	.143	.805	-.175
0	1107	.337	.162	.945	-.081
0	1108	.361	.159	.915	-.061
0	1109	.434	.167	1.043	-.060
0	1110	.444	.177	1.021	-.228
0	1111	.297	.138	.849	-.229
0	1112	.393	.207	1.034	-.478
0	1113	-.340	.121	.109	-.876
0	1114	.465	.167	1.128	-.221
0	1115	.400	.199	1.020	-.697
0	1116	-.355	.126	.070	-.995
0	1117	.459	.162	1.026	-.041
0	1118	.286	.133	.826	-.149
0	1119	.372	.147	.927	-.072
0	1120	.369	.155	.882	-.145
0	1121	.422	.152	1.002	.035
0	1122	.440	.159	1.042	.011
0	1123	.456	.163	1.060	.068
0	1124	-.362	.126	.238	-1.002
0	1125	.306	.133	.917	-.070
0	1126	.282	.121	.761	-.056
0	1127	.320	.129	.849	-.013
0	1128	.308	.127	.866	-.047
0	1129	.373	.153	.907	-.041
0	1130	.278	.144	.838	-.163
0	1131	.389	.152	.887	-.004
0	1132	.404	.157	.885	.004
0	1133	.438	.156	1.053	.047
0	1134	.457	.162	1.089	.079
0	1135	.475	.163	1.091	.063
0	1136	.466	.165	1.107	.047
0	1137	.262	.231	1.033	-.711
0	1138	.363	.236	1.128	-.787
0	1139	-.367	.148	.027	-1.000
0	1140	.269	.125	.762	-.072
0	1141	.415	.147	.939	.028
0	1142	.367	.147	.886	-.048
0	1143	.455	.157	1.060	.079
0	1144	.488	.165	1.175	.081
0	1145	.480	.180	1.129	-.040
0	1146	-.398	.157	.173	-1.126
0	1147	-.379	.149	-.043	-1.090
0	1148	.296	.159	.846	-.144
0	1149	.314	.145	.870	-.052
0	1150	.460	.179	1.065	-.034
0	1151	.232	.255	1.036	-.786
0	1152	.279	.247	.999	-.733
0	1153	.201	.228	.993	-.809
0	1154	-.422	.160	.053	-1.073
0	1155	-.403	.154	-.046	-1.029
0	1156	.301	.137	1.121	-.109
0	1157	.304	.133	.927	-.061
0	1158	.445	.168	1.180	.012
0	1159	.196	.247	1.156	-.875
0	1160	.248	.246	1.103	-.951
0	1161	-.393	.162	.118	-1.209
0	1162	-.395	.159	-.038	-1.174
0	1163	.280	.130	.900	-.079
0	1164	.268	.116	.788	-.026
0	1165	.339	.128	.859	.005
0	1166	.361	.150	.902	-.107
0	1167	.436	.150	1.036	-.001
0	1168	.459	.154	1.010	-.146
0	1169	.440	.152	.955	.049
0	1170	.417	.154	.957	-.064
0	1171	.168	.240	.956	-.977
0	1172	.218	.231	.911	-.918
0	1173	.278	.134	.880	-.108
0	1174	.143	.255	1.060	-.839
0	1175	-.426	.156	.159	-1.187
0	1176	-.411	.146	.132	-1.108
0	1177	.282	.131	.932	-.108
0	1178	.275	.133	.946	-.075
0	1179	.415	.158	.956	-.086
0	1180	.130	.240	.809	-.974
0	1181	.227	.254	.861	-.936
0	1182	-.449	.173	.315	-1.233
0	1183	-.433	.163	.070	-1.170
0	1184	.240	.124	1.228	-.144
0	1185	.268	.127	.734	-.066
0	1186	.387	.157	.946	-.052
0	1187	.103	.239	.836	-.932
0	1188	.167	.239	.834	-.955
0	1189	-.444	.175	.120	-1.525
0	1190	-.450	.170	-.084	-1.525
0	1191	.244	.121	.867	-.074
0	1192	.242	.108	.693	-.035
0	1193	.288	.114	.833	.014
0	1194	.310	.133	.934	-.002
0	1195	.372	.138	1.032	.072
0	1196	.388	.143	1.059	.062
0	1197	.400	.136	.990	.056
0	1198	.371	.140	.996	-.041
0	1199	.135	.240	.867	-.880
0	1200	-.488	.169	.333	-1.254
0	1201	-.458	.157	-.080	-1.299
0	1202	.180	.109	.714	-.165
0	1203	.203	.111	.739	-.076
0	1204	.310	.138	.864	-.031
0	1205	.058	.239	1.075	-1.357
0	1206	.108	.238	1.026	-1.394
0	1207	-.523	.181	.265	-1.210
0	1208	-.513	.167	.060	-1.190
0	1209	.178	.105	.565	-.148
0	1210	.177	.106	.546	-.121

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1211	.273	.134	.949	-.036
0	1212	.028	.225	.836	-.879
0	1213	.065	.233	.828	-1.058
0	1214	.139	.101	.644	-.187
0	1215	-.021	.230	.864	-1.111
0	1216	-.465	.193	.539	-1.325
0	1217	-.452	.161	.099	-1.476
0	1218	.157	.104	.646	-.168
0	1219	.163	.097	.684	-.105
0	1220	.145	.090	.548	-.095
0	1221	.208	.096	.697	-.050
0	1222	.224	.108	.829	-.026
0	1223	.268	.110	.899	.016
0	1224	.271	.116	.809	-.019
0	1225	.268	.122	.823	-.023
0	1226	.271	.127	.838	-.042
0	1227	.251	.125	.802	-.043
0	1228	.244	.126	.804	-.066
0	1229	.071	.203	.803	-.761
0	1230	-.482	.197	.140	-1.753
0	1231	-.480	.185	.021	-1.722
0	1232	.105	.091	.575	-.331
0	1233	.130	.101	.558	-.139
0	1234	.188	.117	.783	-.107
0	1235	-.012	.205	.768	-.988
0	1236	.024	.204	.741	-1.014
0	1237	-.478	.210	.168	-1.248
0	1238	-.501	.192	.068	-1.238
0	1239	.089	.094	.533	-.256
0	1240	.104	.093	.541	-.200
0	1241	-.072	.183	.600	-.984
0	1242	-.045	.186	.535	-.988
0	1243	-.497	.196	.236	-1.554
0	1244	-.522	.180	.044	-1.506
0	1245	.096	.076	.533	-.215
0	1246	.131	.078	.581	-.124
0	1247	.136	.072	.599	-.044
0	1248	.207	.094	.789	-.071
0	1249	.185	.087	.652	-.035
0	1250	.150	.088	.619	-.078
0	1251	.137	.088	.600	-.125
0	1252	.120	.088	.582	-.134
0	1253	-.053	.150	.667	-.739
0	1254	-.131	.100	.203	-.767
0	1255	-.052	.116	.343	-.889
0	1256	.068	.067	.426	-.139
0	1257	-.210	.098	.059	-.873
0	1258	-.109	.067	.100	-.480
0	1259	.061	.046	.266	-.142
0	1260	.055	.065	.370	-.185

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1261	.176	.095	.897	-.042
0	1262	.151	.088	.682	-.074
0	1263	.180	.097	.726	-.060
0	1264	.069	.062	.414	-.144
0	1265	-.061	.041	.100	-.213
0	1266	-.178	.103	.087	-.635
0	1267	-.124	.073	.068	-.440
0	1901	-.011	.093	.511	-.483
0	1902	-.059	.078	.187	-.441
0	1903	.052	.103	.441	-.431
0	1904	-.126	.138	.331	-.626
0	1905	-.277	.117	.266	-.762
0	1906	-.287	.092	-.013	-.711
0	1907	-.411	.124	-.032	-.892
0	1908	-.439	.122	-.082	-.897
0	1909	-.047	.091	.326	-.581
0	1910	-.078	.082	.210	-.411
0	1911	-.063	.078	.258	-.443
0	1912	-.161	.060	.032	-.417
0	2301	-.087	.287	.899	-1.007
0	2302	-.183	.101	.392	-.523
0	2303	-.379	.163	.510	-.980
0	2304	-.027	.233	.775	-.823
0	2305	.091	.127	.598	-.631
0	2306	-.214	.093	.170	-.611
0	2307	.040	.092	.489	-.251
0	2308	.136	.115	.643	-.232
0	2309	.246	.146	.851	-.187
0	2310	-.207	.066	-.044	-.583
0	2311	-.297	.348	.764	-1.466
0	2312	-.044	.303	.908	-.993
0	2313	-.181	.135	.309	-.642
0	2314	-.228	.063	-.058	-.546
0	2315	-.308	.338	.811	-1.424
0	2316	-.271	.349	.992	-1.396
0	2317	-.209	.172	.302	-1.154
0	2318	-.199	.177	.402	-.872
0	2319	-.185	.168	.482	-.838
0	2320	-.146	.214	.727	-.842
0	2321	-.009	.213	.711	-.760
0	2322	.006	.227	.829	-.949
0	2323	.065	.182	.527	-1.070
0	2324	.096	.157	.573	-.864
0	2325	.148	.192	.694	-1.025
0	2326	.057	.096	.477	-.522
0	2327	.094	.100	.531	-.582
0	2328	.156	.132	.647	-.678
0	2329	-.101	.069	.239	-.447
0	2330	-.102	.076	.218	-.362
0	2331	.008	.083	.401	-.277

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	2332	.066	.083	.541	-.266
0	2333	.095	.090	.567	-.255
0	2334	.058	.075	.397	-.256
0	2335	.084	.074	.452	-.221
0	2336	.160	.104	.563	-.230
0	2337	.048	.067	.351	-.269
0	2338	.082	.079	.365	-.218
0	2339	.124	.102	.535	-.318
0	2340	.147	.107	.611	-.283
0	2341	-.222	.067	-.029	-.680
0	2342	-.223	.065	-.014	-.519
0	2343	-.363	.333	.643	-1.422
0	2344	-.312	.344	.674	-1.298
0	2345	-.205	.173	.389	-.931
0	2346	-.196	.319	.782	-1.321
0	2347	-.306	.345	.783	-1.296
0	2348	-.194	.182	.320	-.970
0	2349	-.379	.321	.605	-1.462
0	2350	-.133	.164	.476	-.895
0	2351	-.196	.169	.307	-1.010
0	2352	-.078	.193	.564	-.975
0	2353	.058	.128	.428	-.582
0	2354	-.083	.074	.281	-.823
0	2355	.043	.079	.404	-.495
0	2356	.030	.071	.371	-.477
0	2357	.096	.096	.494	-.366
0	2358	-.249	.080	-.003	-1.138
0	2359	-.210	.154	.269	-1.157
0	2360	-.221	.075	-.004	-.782
0	2361	-.370	.263	.619	-1.604
0	2362	-.195	.302	.748	-1.145
0	2363	-.206	.174	.365	-.896
0	2364	-.364	.281	.659	-1.406
0	2365	-.315	.287	.638	-1.302
0	2366	-.229	.166	.342	-.976
0	2367	-.277	.238	.699	-1.059
0	2368	-.203	.148	.289	-1.080
0	2369	-.190	.149	.317	-1.105
0	2370	-.110	.172	.403	-1.018
0	2371	-.010	.131	.382	-.638
0	2372	-.095	.076	.191	-.626
0	2373	.002	.075	.329	-.546
0	2374	-.020	.069	.290	-.504
0	2375	.039	.086	.433	-.432
0	2376	-.238	.102	.017	-.880
0	2377	-.262	.205	.565	-1.470
0	2378	-.344	.230	.495	-1.457
0	2379	-.205	.137	.167	-.998
0	2380	-.265	.188	.544	-1.371
0	2381	-.264	.213	.521	-1.335

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	2382	-.197	.126	.146	-.914
0	2383	-.268	.166	.299	-1.516
0	2384	-.229	.187	.406	-1.272
0	2385	-.182	.106	.184	-.779
0	2386	-.168	.110	.149	-.981
0	2387	-.195	.120	.146	-.861
0	2388	-.192	.134	.427	-.939
0	2389	-.143	.128	.391	-.765
0	2390	-.068	.109	.283	-.639
0	2391	-.099	.070	.092	-.782
0	2392	-.044	.065	.152	-.417
0	2393	-.055	.058	.112	-.442
0	2394	-.038	.062	.358	-.470
0	2395	.000	.067	.326	-.303
0	2396	.010	.084	.521	-.343
0	2397	-.214	.102	.041	-.867
0	2398	-.220	.113	.042	-.956
0	2399	-.236	.150	.350	-1.246
0	2400	-.199	.164	.483	-1.247
0	2401	-.153	.102	.174	-1.097
0	2402	-.188	.136	.340	-1.175
0	2403	-.194	.153	.408	-1.093
0	2404	-.140	.110	.204	-.865
0	2405	-.179	.143	.336	-.984
0	2406	-.087	.109	.250	-.655
0	2407	-.115	.121	.225	-.819
0	2408	-.084	.112	.285	-.700
0	2409	-.030	.074	.218	-.554
0	2410	-.044	.065	.238	-.357
0	2411	-.044	.052	.167	-.258
0	2412	-.061	.051	.170	-.401
0	2413	-.042	.059	.237	-.303
0	2414	-.314	.158	.011	-1.040
0	2415	-.109	.122	.246	-1.049
0	2416	-.090	.087	.179	-.979
0	2417	-.017	.063	.202	-.398
0	2418	-.056	.040	.094	-.237
0	3101	-.190	.059	-.007	-.471
0	3102	-.177	.055	-.019	-.399
0	3103	-.177	.054	-.019	-.391
0	3104	-.175	.054	-.016	-.404
0	3105	-.185	.055	-.010	-.395
0	3106	-.184	.055	.013	-.406
0	3107	-.158	.053	.028	-.423
0	3108	-.185	.060	.004	-.571
0	3109	-.188	.063	-.007	-.480
0	3110	-.226	.093	-.010	-.790
0	3111	-.171	.054	.034	-.428
0	3112	-.218	.089	-.016	-.792
0	3113	-.175	.058	-.005	-.383
0	3114	-.174	.058	-.005	-.525
0	3115	-.201	.076	-.008	-.606
0	3116	-.170	.057	.006	-.388
0	3117	-.182	.056	.004	-.473
0	3118	-.174	.052	.004	-.352
0	3119	-.174	.051	-.013	-.368
0	3120	-.170	.050	-.012	-.370
0	3121	-.169	.049	-.000	-.348
0	3122	-.171	.050	.006	-.350
0	3123	-.175	.052	.022	-.361
0	3124	-.175	.054	.008	-.503
0	3125	-.173	.055	-.026	-.362
0	3126	-.176	.055	-.037	-.350
0	3127	-.175	.054	-.040	-.359
0	3128	-.172	.054	-.030	-.348
0	3129	-.172	.051	-.007	-.339
0	3130	-.175	.051	-.017	-.350
0	3131	-.170	.050	-.013	-.336
0	3132	-.167	.049	-.010	-.337
0	3133	-.180	.046	-.051	-.358
0	3134	-.178	.046	-.050	-.359
0	3135	-.177	.047	-.040	-.377
0	3136	-.180	.048	-.028	-.382
0	3137	-.205	.075	-.005	-.657
0	3138	-.207	.071	-.027	-.583
0	3139	-.181	.056	-.007	-.389
0	3140	-.172	.052	-.005	-.385
0	3141	-.169	.051	-.024	-.379
0	3142	-.177	.051	-.030	-.387
0	3143	-.172	.050	-.028	-.389
0	3144	-.171	.051	-.024	-.382
0	3145	-.174	.054	-.003	-.365
0	3146	-.182	.058	.027	-.589
0	3147	-.185	.059	.024	-.510
0	3148	-.171	.055	.018	-.378
0	3149	-.162	.053	.043	-.358
0	3150	-.178	.054	-.005	-.534
0	3151	-.209	.079	.019	-.837
0	3152	-.199	.073	.030	-.811
0	3153	-.196	.079	-.005	-.837
0	3154	-.166	.057	.016	-.451
0	3155	-.172	.060	.019	-.472
0	3156	-.158	.054	.020	-.364
0	3157	-.169	.058	.005	-.424
0	3158	-.184	.059	-.035	-.449
0	3159	-.222	.086	-.030	-.806
0	3160	-.213	.082	-.031	-.690
0	3161	-.176	.058	.002	-.427
0	3162	-.184	.060	.002	-.463
0	3163	-.175	.052	-.011	-.363
0	3164	-.173	.051	-.017	-.348
0	3165	-.164	.052	.033	-.394
0	3166	-.171	.052	.009	-.476
0	3167	-.170	.049	-.002	-.405
0	3168	-.169	.048	.002	-.355
0	3169	-.169	.050	-.019	-.367
0	3170	-.178	.053	-.021	-.391
0	3171	-.222	.086	-.021	-.941
0	3172	-.213	.079	-.029	-.820
0	3173	-.163	.056	-.003	-.375
0	3174	-.220	.088	-.007	-.879
0	3175	-.181	.066	.010	-.457
0	3176	-.182	.069	.020	-.552
0	3177	-.173	.058	.035	-.488
0	3178	-.180	.059	.029	-.582
0	3179	-.193	.055	.008	-.472
0	3180	-.233	.085	.030	-.608
0	3181	-.201	.076	-.003	-.661
0	3182	-.179	.070	.009	-.626
0	3183	-.187	.075	.005	-.626
0	3184	-.168	.059	.020	-.464
0	3185	-.171	.062	-.010	-.557
0	3186	-.191	.064	.034	-.518
0	3187	-.238	.096	-.016	-.825
0	3188	-.227	.090	-.026	-.769
0	3189	-.175	.078	.149	-.841
0	3190	-.185	.083	.202	-.929
0	3191	-.174	.065	.043	-.593
0	3192	-.174	.061	.023	-.545
0	3193	-.164	.058	.019	-.479
0	3194	-.173	.057	.023	-.412
0	3195	-.170	.054	-.014	-.403
0	3196	-.173	.056	.004	-.459
0	3197	-.179	.062	-.000	-.529
0	3198	-.191	.066	-.044	-.667
0	3199	-.231	.098	-.049	-.827
0	3200	-.180	.084	.043	-.853
0	3201	-.190	.092	.102	-.879
0	3202	-.180	.072	.087	-.522
0	3203	-.183	.070	.019	-.510
0	3204	-.214	.068	.006	-.494
0	3205	-.241	.099	-.005	-.910
0	3206	-.239	.093	-.019	-.791
0	3207	-.173	.088	.064	-.635
0	3208	-.177	.095	.060	-.976
0	3209	-.158	.074	.035	-.642
0	3210	-.166	.074	.064	-.656
0	3211	-.215	.065	-.028	-.543
0	3212	-.239	.087	.011	-.808
0	3213	-.254	.083	.041	-.733

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	3214	-.137	.069	.101	-.929
0	3215	-.244	.087	.013	-.738
0	3216	-.225	.114	.038	-.925
0	3217	-.269	.129	.028	-1.700
0	3218	-.226	.106	.037	-1.054
0	3219	-.230	.098	.045	-.701
0	3220	-.241	.100	.030	-.745
0	3221	-.236	.090	.013	-.722
0	3222	-.204	.079	.102	-.616
0	3223	-.197	.074	.021	-.584
0	3224	-.216	.075	-.037	-.690
0	3225	-.246	.077	-.048	-.585
0	3226	-.222	.072	-.037	-.547
0	3227	-.235	.075	-.021	-.733
0	3228	-.234	.073	-.050	-.840
0	3229	-.267	.085	-.026	-.837
0	3230	-.258	.132	.032	-1.148
0	3231	-.273	.141	.033	-1.328
0	3232	-.236	.115	.068	-.932
0	3233	-.254	.119	-.015	-1.327
0	3234	-.233	.074	-.032	-.574
0	3235	-.252	.089	.035	-.755
0	3236	-.256	.085	.038	-.645
0	3237	-.272	.135	.020	-1.026
0	3238	-.254	.139	.045	-1.131
0	3239	-.226	.112	.011	-1.013
0	3240	-.226	.108	.025	-1.000
0	3241	-.244	.089	-.028	-.748
0	3242	-.229	.087	-.005	-.713
0	3243	-.255	.147	.045	-1.114
0	3244	-.268	.158	.060	-1.187
0	3245	-.215	.115	.026	-.919
0	3246	-.175	.096	.065	-.678
0	3247	-.151	.068	.058	-.451
0	3248	-.160	.076	.148	-.460
0	3249	-.182	.069	.074	-.503
0	3250	-.168	.067	.018	-.517
0	3251	-.116	.062	.075	-.380
0	3252	-.175	.083	.090	-.655
0	3253	-.216	.098	.036	-.684
0	3254	-.097	.088	.072	-.922
0	3255	-.137	.066	.078	-.540
0	3256	-.069	.069	.188	-.400
0	3257	-.071	.041	.066	-.253
0	3258	-.053	.041	.107	-.209
0	3259	-.091	.062	.077	-.424
0	3260	-.062	.053	.120	-.280
0	3261	-.066	.061	.168	-.345
0	3262	-.081	.070	.142	-.504
0	3263	-.078	.062	.097	-.512
0	3264	-.097	.075	.095	-.577
0	3265	-.220	.091	.031	-.751
0	3266	-.037	.043	.118	-.204
0	3267	-.055	.044	.083	-.229
0	4301	-.231	.088	-.002	-.656
0	4302	-.119	.071	.071	-.427
0	4303	-.238	.080	.143	-.616
0	4304	-.228	.082	.030	-.623
0	4305	-.238	.074	.044	-.567
0	4306	-.230	.071	-.030	-.544
0	4307	-.221	.065	-.040	-.514
0	4308	-.206	.065	-.025	-.525
0	4309	-.215	.067	-.004	-.514
0	4310	-.227	.075	-.021	-.783
0	4311	-.244	.088	-.018	-.733
0	4312	-.227	.080	-.039	-.623
0	4313	-.233	.077	-.028	-.619
0	4314	-.241	.077	-.010	-.621
0	4315	-.250	.092	-.023	-.653
0	4316	-.230	.086	-.003	-.650
0	4317	-.245	.083	.032	-.645
0	4318	-.260	.090	.008	-.982
0	4319	-.250	.085	.012	-.962
0	4320	-.237	.083	.023	-.839
0	4321	-.245	.080	.020	-.760
0	4322	-.238	.076	.018	-.606
0	4323	-.237	.076	.014	-.655
0	4324	-.219	.074	.028	-.635
0	4325	-.227	.071	.015	-.584
0	4326	-.234	.070	.050	-.741
0	4327	-.228	.069	.048	-.658
0	4328	-.213	.066	.020	-.580
0	4329	-.239	.078	.096	-.887
0	4330	-.239	.076	.013	-.674
0	4331	-.232	.071	-.001	-.592
0	4332	-.219	.074	.005	-.610
0	4333	-.229	.072	-.004	-.582
0	4334	-.222	.069	0.000	-.629
0	4335	-.216	.067	-.013	-.575
0	4336	-.200	.065	-.013	-.500
0	4337	-.216	.069	-.009	-.511
0	4338	-.197	.066	.037	-.488
0	4339	-.188	.066	.060	-.484
0	4340	-.199	.069	.018	-.510
0	4341	-.240	.082	.042	-.738
0	4342	-.226	.079	.028	-.694
0	4343	-.250	.099	.021	-.736
0	4344	-.227	.093	.038	-.696
0	4345	-.246	.088	.039	-.650
0	4346	-.245	.088	-.042	-.897
0	4347	-.244	.086	.002	-.796
0	4348	-.237	.081	.020	-.696
0	4349	-.258	.094	-.051	-.884
0	4350	-.239	.082	-.028	-.802
0	4351	-.263	.089	-.015	-.812
0	4352	-.249	.080	-.003	-.706
0	4353	-.228	.082	.060	-.728
0	4354	-.246	.090	-.052	-.928
0	4355	-.237	.078	-.008	-.671
0	4356	-.230	.077	-.001	-.638
0	4357	-.205	.071	.009	-.609
0	4358	-.244	.085	.037	-.904
0	4359	-.266	.081	-.003	-.639
0	4360	-.249	.081	-.005	-.655
0	4361	-.254	.092	-.005	-.788
0	4362	-.248	.088	-.007	-.854
0	4363	-.271	.090	.018	-.654
0	4364	-.277	.101	-.027	-.753
0	4365	-.253	.094	-.005	-.731
0	4366	-.275	.094	-.009	-.770
0	4367	-.274	.094	-.049	-.843
0	4368	-.284	.094	-.035	-.811
0	4369	-.262	.088	-.035	-.743
0	4370	-.271	.087	-.021	-.662
0	4371	-.284	.097	.003	-1.348
0	4372	-.277	.099	.012	-.845
0	4373	-.260	.090	.028	-.761
0	4374	-.270	.090	.022	-.799
0	4375	-.253	.080	-.021	-.633
0	4376	-.265	.089	-.020	-.886
0	4377	-.267	.099	-.016	-1.060
0	4378	-.270	.091	-.039	-.767
0	4379	-.273	.088	-.053	-.647
0	4380	-.255	.097	.002	-1.037
0	4381	-.266	.087	.082	-.718
0	4382	-.290	.094	.021	-.850
0	4383	-.268	.097	-.013	-.868
0	4384	-.275	.092	-.019	-.737
0	4385	-.287	.102	-.108	-.891
0	4386	-.265	.095	-.000	-.900
0	4387	-.281	.101	.109	-.730
0	4388	-.285	.101	.009	-.797
0	4389	-.295	.106	-.001	-.749
0	4390	-.312	.113	.035	-.925
0	4391	-.297	.103	.092	-.847
0	4392	-.299	.101	.025	-.846
0	4393	-.299	.105	.004	-1.179
0	4394	-.302	.101	-.024	-1.077
0	4395	-.288	.090	-.051	-.764
0	4396	-.298	.097	-.070	-.906

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	4397	-.321	.103	-.065	-.967
0	4398	-.328	.107	-.087	-1.070
0	4399	-.250	.091	-.001	-.845
0	4400	-.262	.088	-.033	-.706
0	4401	-.263	.096	.073	-.792
0	4402	-.234	.095	.056	-.815
0	4403	-.243	.102	-.001	-.854
0	4404	-.216	.108	.336	-.843
0	4405	-.205	.113	.132	-1.057
0	4406	-.130	.111	.273	-.637
0	4407	-.161	.099	.223	-.559
0	4408	-.195	.104	.329	-.718
0	4409	-.254	.116	.265	-.889
0	4410	-.311	.129	.187	-1.215
0	4411	-.366	.145	-.059	-1.247
0	4412	-.381	.154	-.049	-1.319
0	4413	-.378	.151	-.026	-1.201
0	4414	-.417	.159	-.040	-1.285
0	4415	-.164	.101	.230	-.945
0	4416	-.431	.183	-.054	-1.535
0	4417	-.123	.089	.132	-.784
0	4418	-.279	.108	-.024	-.871
0	4419	-.000	.065	.408	-.230
0	4420	-.026	.057	.343	-.303
0	4421	-.022	.071	.416	-.439
0	4422	-.051	.082	.368	-.630
0	4423	-.159	.100	.227	-.653
0	4424	-.173	.087	.070	-.604
0	9901	-.047	.042	.120	-.197
0	9902	-.030	.043	.115	-.194
0	9903	-.043	.049	.136	-.235
0	9904	-.098	.068	.105	-.510
0	9905	-.115	.057	.056	-.480
15	110	.240	.166	.882	-.213
15	111	.272	.191	.974	-.669
15	112	.459	.179	1.197	-.017
15	130	-.190	.092	.065	-.617
15	140	-.241	.083	.004	-.625
15	141	-.252	.084	-.003	-.674
15	142	-.250	.077	-.012	-.580
15	143	-.283	.085	-.067	-.740
15	144	-.248	.081	-.044	-.697
15	145	-.270	.091	-.023	-.671
15	220	-.460	.281	.513	-1.327
15	221	-.446	.137	-.065	-1.137
15	230	-.375	.114	-.029	-.960
15	231	-.365	.117	-.043	-.887
15	310	.151	.170	.618	-.684
15	320	.039	.167	.497	-1.006
15	321	-.168	.071	.044	-.556
15	322	.169	.166	.718	-.719
15	323	-.231	.094	.066	-.624
15	324	.270	.215	1.118	-.671
15	325	-.226	.092	.109	-.696
15	330	-.179	.074	.047	-.693
15	331	-.207	.082	.016	-.573
15	332	-.225	.093	.007	-.829
15	410	-.172	.127	.666	-.796
15	411	-.164	.128	.609	-.693
15	440	-.220	.101	.097	-.813
15	441	-.229	.117	.454	-1.022
15	901	-.362	.123	-.029	-.939
15	902	-.321	.107	-.026	-.786
15	903	-.288	.096	.046	-.798
15	904	-.309	.110	.014	-.900
15	905	-.278	.076	-.061	-.625
15	906	-.259	.097	.073	-.815
15	907	-.256	.090	.044	-.750
15	908	-.253	.118	.312	-.793
15	909	-.306	.109	-.032	-1.025
15	910	-.301	.097	-.036	-.820
15	911	-.277	.089	-.008	-.742
15	912	-.264	.055	-.102	-.454
15	1101	-.138	.260	.911	-1.027
15	1102	.395	.173	.965	-.095
15	1103	.362	.173	1.003	-.070
15	1104	.322	.168	.873	-.087
15	1105	.342	.179	.992	-.337
15	1106	.362	.170	1.062	-.160
15	1107	.340	.169	1.163	-.149
15	1108	.401	.180	1.069	-.035
15	1109	.410	.164	1.266	-.106
15	1110	.160	.255	1.025	-.866
15	1111	.349	.156	1.100	-.141
15	1112	-.074	.277	.873	-1.019
15	1113	-.323	.188	.356	-1.044
15	1114	.433	.177	1.127	-.047
15	1115	-.014	.289	.835	-1.076
15	1116	-.363	.190	.280	-1.105
15	1117	.428	.174	1.102	-.146
15	1118	.356	.168	1.018	-.174
15	1119	.454	.186	1.180	-.029
15	1120	.478	.190	1.209	-.017
15	1121	.459	.180	1.183	.004
15	1122	.462	.181	1.185	.013
15	1123	.435	.174	1.251	.006
15	1124	-.402	.201	.483	-1.117
15	1125	.366	.157	.973	-.082
15	1126	.374	.159	.995	-.098
15	1127	.415	.165	1.062	-.025
15	1128	.412	.169	1.090	-.049
15	1129	.425	.161	1.064	-.010
15	1130	.409	.168	1.018	-.012
15	1131	.446	.164	1.029	.025
15	1132	.447	.164	1.039	.025
15	1133	.449	.168	.995	-.070
15	1134	.450	.170	1.000	-.112
15	1135	.434	.170	1.015	-.089
15	1136	.409	.168	.960	-.089
15	1137	-.162	.278	.826	-1.175
15	1138	-.107	.322	1.019	-1.418
15	1139	-.413	.198	.308	-1.121
15	1140	.347	.154	.876	-.072
15	1141	.464	.159	1.076	.012
15	1142	.460	.168	1.046	-.002
15	1143	.497	.165	1.098	.048
15	1144	.501	.166	1.108	.029
15	1145	.391	.168	1.086	-.075
15	1146	-.435	.211	.519	-1.168
15	1147	-.429	.188	.347	-1.132
15	1148	.318	.158	.941	-.138
15	1149	.344	.150	1.020	-.073
15	1150	.389	.159	1.051	-.120
15	1151	-.247	.283	.920	-1.315
15	1152	-.189	.317	.991	-1.329
15	1153	-.245	.287	.838	-1.385
15	1154	-.458	.208	.364	-1.300
15	1155	-.449	.188	.158	-1.270
15	1156	.327	.152	.957	-.157
15	1157	.346	.146	.917	-.026
15	1158	.384	.163	1.010	-.102
15	1159	-.260	.282	.780	-1.186
15	1160	-.208	.321	.769	-1.258
15	1161	-.430	.219	.536	-1.537
15	1162	-.448	.192	.328	-1.536
15	1163	.307	.140	.876	-.118
15	1164	.321	.136	.897	-.065
15	1165	.399	.156	1.072	.035
15	1166	.439	.168	1.151	.055
15	1167	.459	.165	1.159	.069
15	1168	.444	.160	1.088	.066
15	1169	.420	.157	1.107	-.014
15	1170	.382	.155	1.103	-.063
15	1171	-.312	.286	1.028	-1.427
15	1172	-.259	.315	1.030	-1.460
15	1173	.292	.142	.912	-.152
15	1174	-.297	.302	.785	-1.407
15	1175	-.460	.234	.640	-1.516
15	1176	-.463	.206	.406	-1.463
15	1177	.295	.146	.908	-.082

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
15	1178	.295	.149	.919	-.088
15	1179	.334	.151	1.061	-.108
15	1180	-.297	.304	.700	-1.548
15	1181	-.239	.310	.774	-1.635
15	1182	-.455	.223	.346	-1.443
15	1183	-.460	.197	.270	-1.315
15	1184	.245	.152	.831	-.214
15	1185	.283	.137	.842	-.082
15	1186	.305	.142	.828	-.163
15	1187	-.323	.276	.572	-1.528
15	1188	-.265	.315	.702	-1.580
15	1189	-.430	.231	.498	-1.348
15	1190	-.459	.200	.421	-1.427
15	1191	.254	.134	.820	-.080
15	1192	.270	.133	.842	-.026
15	1193	.341	.136	1.018	-.012
15	1194	.381	.148	1.074	-.022
15	1195	.400	.148	1.093	.013
15	1196	.385	.147	1.069	-.039
15	1197	.349	.145	1.072	-.047
15	1198	.312	.144	1.008	-.154
15	1199	-.281	.309	.650	-1.588
15	1200	-.445	.251	.567	-1.509
15	1201	-.442	.200	.159	-1.357
15	1202	.198	.124	.849	-.236
15	1203	.222	.125	.778	-.143
15	1204	.255	.134	.842	-.159
15	1205	-.292	.275	.538	-1.752
15	1206	-.236	.305	.612	-1.855
15	1207	-.460	.244	.347	-1.474
15	1208	-.474	.211	.238	-1.391
15	1209	.206	.127	.744	-.220
15	1210	.212	.128	.769	-.115
15	1211	.246	.133	.880	-.106
15	1212	-.301	.277	.514	-1.417
15	1213	-.165	.276	.707	-1.191
15	1214	.155	.108	.616	-.167
15	1215	-.240	.251	.642	-1.216
15	1216	-.446	.253	.356	-1.605
15	1217	-.429	.224	.422	-1.359
15	1218	.163	.113	.785	-.148
15	1219	.179	.108	.881	-.067
15	1220	.161	.101	.650	-.118
15	1221	.231	.112	.734	-.091
15	1222	.259	.121	.733	-.042
15	1223	.271	.121	.695	-.035
15	1224	.258	.122	.840	-.048
15	1225	.218	.129	.929	-.178
15	1226	.224	.135	.896	-.191
15	1227	.200	.132	1.008	-.211
15	1228	.188	.132	.903	-.236
15	1229	-.201	.245	.688	-1.210
15	1230	-.421	.233	.354	-1.432
15	1231	-.442	.210	.302	-1.470
15	1232	.120	.096	.525	-.248
15	1233	.141	.099	.634	-.159
15	1234	.158	.111	.714	-.184
15	1235	-.258	.231	.595	-1.387
15	1236	-.199	.247	.606	-1.449
15	1237	-.423	.258	.373	-1.328
15	1238	-.460	.231	.359	-1.288
15	1239	.105	.095	.632	-.265
15	1240	.118	.093	.611	-.202
15	1241	-.203	.201	.529	-1.154
15	1242	-.159	.214	.477	-1.169
15	1243	-.413	.216	.273	-1.201
15	1244	-.444	.197	.251	-1.242
15	1245	.092	.069	.385	-.130
15	1246	.123	.069	.517	-.087
15	1247	.148	.078	.535	-.031
15	1248	.185	.089	.628	.005
15	1249	.181	.099	.776	-.071
15	1250	.153	.099	.726	-.094
15	1251	.139	.099	.727	-.111
15	1252	.122	.097	.693	-.132
15	1253	-.162	.186	.510	-1.081
15	1254	-.099	.088	.228	-.546
15	1255	-.123	.146	.354	-.835
15	1256	.069	.071	.404	-.178
15	1257	-.143	.091	.122	-.681
15	1258	-.062	.055	.164	-.338
15	1259	.053	.047	.302	-.089
15	1260	.058	.068	.375	-.154
15	1261	.186	.096	.615	-.010
15	1262	.157	.089	.548	-.099
15	1263	.184	.099	.659	-.104
15	1264	.047	.062	.298	-.349
15	1265	-.068	.042	.075	-.296
15	1266	-.137	.106	.093	-.668
15	1267	-.092	.074	.123	-.443
15	1901	-.158	.109	.193	-.677
15	1902	-.196	.113	.234	-.683
15	1903	-.061	.116	.363	-.667
15	1904	-.096	.123	.478	-.615
15	1905	-.139	.148	.456	-.684
15	1906	-.295	.108	.040	-.776
15	1907	-.357	.127	.058	-.975
15	1908	-.421	.115	-.103	-.874
15	1909	-.131	.100	.205	-.575
15	1910	-.209	.092	.203	-.669
15	1911	-.157	.092	.148	-.528
15	1912	-.129	.050	.049	-.313
15	2301	-.601	.250	.295	-1.644
15	2302	-.339	.135	.060	-.966
15	2303	-.453	.138	-.060	-1.117
15	2304	-.371	.180	.255	-.987
15	2305	-.142	.213	.656	-.967
15	2306	-.229	.129	.206	-.968
15	2307	-.040	.129	.365	-.750
15	2308	.040	.160	.625	-.919
15	2309	.056	.173	.656	-.733
15	2310	-.200	.085	.132	-.648
15	2311	-.648	.236	.349	-1.442
15	2312	-.561	.246	.449	-1.491
15	2313	-.431	.150	-.032	-1.145
15	2314	-.227	.096	.049	-.889
15	2315	-.610	.212	.351	-1.622
15	2316	-.597	.219	.564	-1.636
15	2317	-.434	.153	.008	-1.309
15	2318	-.443	.159	.007	-1.010
15	2319	-.424	.161	.009	-1.033
15	2320	-.433	.177	.278	-1.140
15	2321	-.377	.182	.321	-.985
15	2322	-.383	.198	.386	-1.206
15	2323	-.336	.241	.335	-1.359
15	2324	-.275	.221	.322	-1.191
15	2325	-.284	.264	.459	-1.325
15	2326	-.231	.196	.241	-.845
15	2327	-.198	.207	.322	-.881
15	2328	-.170	.248	.485	-1.133
15	2329	-.228	.138	.246	-.792
15	2330	-.213	.153	.185	-.877
15	2331	-.162	.188	.311	-.948
15	2332	-.153	.153	.255	-.780
15	2333	-.114	.172	.398	-.774
15	2334	-.105	.138	.239	-.898
15	2335	-.060	.125	.270	-.674
15	2336	-.014	.161	.529	-.752
15	2337	-.070	.104	.235	-.556
15	2338	-.032	.109	.266	-.656
15	2339	.004	.127	.446	-.671
15	2340	.001	.149	.497	-.740
15	2341	-.226	.094	.164	-.713
15	2342	-.214	.100	.054	-.845
15	2343	-.569	.211	.182	-1.593
15	2344	-.547	.215	.360	-1.605
15	2345	-.410	.156	-.024	-1.014
15	2346	-.532	.201	.190	-1.328
15	2347	-.544	.204	.335	-1.447
15	2348	-.407	.155	.039	-1.138

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
15	2349	-.561	.204	.144	-1.603
15	2350	-.382	.168	.037	-1.208
15	2351	-.388	.165	.066	-1.106
15	2352	-.348	.183	.329	-1.263
15	2353	-.229	.201	.343	-1.132
15	2354	-.219	.153	.228	-.928
15	2355	-.130	.147	.290	-.842
15	2356	-.108	.129	.241	-.726
15	2357	-.056	.142	.375	-.708
15	2358	-.224	.116	.115	-1.032
15	2359	-.380	.150	-.002	-1.192
15	2360	-.214	.105	.066	-.840
15	2361	-.508	.202	.118	-1.626
15	2362	-.489	.197	.315	-1.381
15	2363	-.393	.158	.049	-1.087
15	2364	-.524	.202	.122	-1.431
15	2365	-.500	.204	.239	-1.384
15	2366	-.399	.165	.062	-1.127
15	2367	-.483	.193	.393	-1.550
15	2368	-.381	.170	-.006	-1.941
15	2369	-.371	.173	.053	-1.924
15	2370	-.350	.180	.196	-1.191
15	2371	-.242	.187	.397	-1.344
15	2372	-.212	.146	.230	-.961
15	2373	-.134	.137	.318	-.868
15	2374	-.134	.125	.187	-.797
15	2375	-.071	.133	.403	-.683
15	2376	-.211	.116	.027	-.815
15	2377	-.443	.200	.423	-1.524
15	2378	-.478	.216	.359	-1.608
15	2379	-.320	.144	.084	-1.075
15	2380	-.428	.198	.258	-1.497
15	2381	-.382	.188	.242	-1.171
15	2382	-.294	.142	.102	-.941
15	2383	-.424	.206	.015	-1.699
15	2384	-.399	.203	.194	-1.588
15	2385	-.316	.165	.029	-1.374
15	2386	-.298	.152	.004	-1.239
15	2387	-.310	.168	.067	-1.149
15	2388	-.311	.187	.236	-1.524
15	2389	-.260	.166	.298	-.969
15	2390	-.161	.142	.224	-.815
15	2391	-.149	.119	.192	-.976
15	2392	-.091	.106	.251	-.696
15	2393	-.091	.091	.179	-.637
15	2394	-.075	.097	.221	-.659
15	2395	-.051	.090	.376	-.443
15	2396	-.039	.110	.489	-.597
15	2397	-.150	.089	.098	-.715
15	2398	-.132	.089	.132	-.763
15	2399	-.376	.188	.079	-1.694
15	2400	-.356	.190	.165	-1.568
15	2401	-.275	.146	.034	-1.386
15	2402	-.345	.188	.048	-1.315
15	2403	-.355	.201	.192	-1.609
15	2404	-.266	.158	.059	-1.283
15	2405	-.344	.199	.151	-1.602
15	2406	-.251	.161	.089	-1.034
15	2407	-.257	.180	.225	-1.134
15	2408	-.177	.141	.381	-.885
15	2409	-.070	.079	.272	-.480
15	2410	-.087	.076	.167	-.532
15	2411	-.052	.054	.207	-.327
15	2412	-.046	.054	.175	-.359
15	2413	-.021	.073	.351	-.391
15	2414	-.170	.114	.102	-.795
15	2415	-.256	.179	.092	-1.226
15	2416	-.081	.075	.194	-.597
15	2417	-.063	.071	.224	-.520
15	2418	-.055	.041	.068	-.304
15	3101	-.180	.080	.051	-.557
15	3102	-.157	.068	.044	-.474
15	3103	-.160	.067	.032	-.480
15	3104	-.155	.066	.058	-.475
15	3105	-.153	.066	.049	-.480
15	3106	-.153	.066	.064	-.455
15	3107	-.159	.059	.061	-.430
15	3108	-.165	.068	.023	-.549
15	3109	-.175	.071	.018	-.562
15	3110	-.220	.107	.064	-.777
15	3111	-.170	.072	.055	-.500
15	3112	-.226	.112	.048	-.787
15	3113	-.180	.085	.069	-.741
15	3114	-.161	.062	.042	-.477
15	3115	-.209	.095	.057	-.682
15	3116	-.176	.085	.134	-.859
15	3117	-.167	.059	.046	-.421
15	3118	-.159	.066	.086	-.472
15	3119	-.160	.059	.004	-.386
15	3120	-.154	.055	.008	-.369
15	3121	-.159	.053	-.015	-.383
15	3122	-.156	.053	-.015	-.378
15	3123	-.168	.059	-.001	-.492
15	3124	-.180	.079	.043	-.693
15	3125	-.157	.063	.038	-.513
15	3126	-.154	.061	.015	-.462
15	3127	-.158	.059	.006	-.447
15	3128	-.155	.060	.020	-.450
15	3129	-.155	.059	.010	-.401
15	3130	-.152	.058	.003	-.391
15	3131	-.153	.056	-.006	-.378
15	3132	-.151	.055	-.004	-.381
15	3133	-.155	.056	.041	-.401
15	3134	-.152	.054	.042	-.369
15	3135	-.158	.057	.055	-.366
15	3136	-.159	.060	.053	-.421
15	3137	-.225	.118	.203	-.948
15	3138	-.224	.096	.014	-.661
15	3139	-.188	.091	.111	-.967
15	3140	-.167	.070	.041	-.536
15	3141	-.157	.064	.042	-.519
15	3142	-.160	.063	.047	-.557
15	3143	-.156	.059	.057	-.456
15	3144	-.155	.058	.064	-.412
15	3145	-.167	.063	.040	-.474
15	3146	-.182	.084	.038	-.702
15	3147	-.189	.089	.040	-.696
15	3148	-.166	.070	.018	-.548
15	3149	-.152	.070	.059	-.597
15	3150	-.158	.062	.045	-.491
15	3151	-.222	.110	.026	-.901
15	3152	-.211	.104	.032	-.910
15	3153	-.240	.121	.059	-.882
15	3154	-.184	.086	.088	-.896
15	3155	-.190	.095	.118	-.997
15	3156	-.164	.070	.080	-.488
15	3157	-.169	.075	.066	-.620
15	3158	-.175	.066	.050	-.577
15	3159	-.244	.122	.069	-.927
15	3160	-.231	.114	.066	-.878
15	3161	-.179	.096	.038	-.821
15	3162	-.186	.102	.054	-.789
15	3163	-.164	.074	.024	-.529
15	3164	-.160	.069	.018	-.486
15	3165	-.159	.067	.033	-.736
15	3166	-.158	.060	-.003	-.593
15	3167	-.158	.056	-.011	-.447
15	3168	-.158	.056	.009	-.416
15	3169	-.158	.059	.038	-.632
15	3170	-.166	.063	.013	-.671
15	3171	-.243	.120	.029	-1.044
15	3172	-.231	.112	.020	-.896
15	3173	-.160	.079	.047	-.918
15	3174	-.247	.130	.073	-1.035
15	3175	-.189	.100	.052	-.795
15	3176	-.192	.106	.064	-.901
15	3177	-.158	.081	.049	-.689
15	3178	-.163	.082	.041	-.830
15	3179	-.166	.064	.043	-.449
15	3180	-.242	.126	.064	-.991

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
15	3181	-.232	.119	.052	-.854
15	3182	-.183	.097	.168	-.832
15	3183	-.188	.105	.151	-1.026
15	3184	-.165	.078	.066	-.670
15	3185	-.158	.076	.054	-.668
15	3186	-.177	.070	.050	-.481
15	3187	-.257	.131	.111	-.917
15	3188	-.247	.126	.064	-.924
15	3189	-.173	.092	.097	-.745
15	3190	-.182	.101	.104	-.878
15	3191	-.160	.074	.055	-.536
15	3192	-.160	.069	.039	-.456
15	3193	-.154	.066	.019	-.458
15	3194	-.158	.060	-.012	-.406
15	3195	-.161	.058	-.016	-.397
15	3196	-.173	.064	.002	-.465
15	3197	-.176	.066	.021	-.517
15	3198	-.184	.068	.025	-.488
15	3199	-.247	.118	.038	-.981
15	3200	-.169	.099	.066	-1.033
15	3201	-.163	.102	.151	-.944
15	3202	-.150	.079	.116	-.794
15	3203	-.150	.075	.078	-.696
15	3204	-.195	.075	.048	-.550
15	3205	-.215	.101	-.000	-.703
15	3206	-.214	.094	-.021	-.648
15	3207	-.133	.084	.064	-.748
15	3208	-.132	.086	.064	-.677
15	3209	-.122	.071	.087	-.689
15	3210	-.123	.065	.059	-.534
15	3211	-.201	.077	.073	-.611
15	3212	-.229	.098	.034	-.954
15	3213	-.247	.095	.035	-.849
15	3214	-.119	.064	.063	-.499
15	3215	-.241	.098	-.012	-.809
15	3216	-.128	.075	.069	-.720
15	3217	-.150	.084	.084	-.711
15	3218	-.118	.066	.079	-.520
15	3219	-.128	.061	.059	-.426
15	3220	-.134	.058	.019	-.445
15	3221	-.150	.064	.021	-.477
15	3222	-.147	.063	.043	-.450
15	3223	-.155	.063	.122	-.402
15	3224	-.198	.078	.005	-.627
15	3225	-.253	.097	.005	-.728
15	3226	-.225	.089	-.002	-.679
15	3227	-.242	.095	-.006	-.704
15	3228	-.238	.092	-.011	-.784
15	3229	-.266	.094	-.021	-.860
15	3230	-.145	.088	.088	-.851
15	3231	-.154	.093	.111	-.909
15	3232	-.128	.078	.141	-.600
15	3233	-.129	.068	.102	-.516
15	3234	-.224	.091	.039	-.692
15	3235	-.236	.102	.043	-.739
15	3236	-.242	.101	.100	-.738
15	3237	-.179	.097	.044	-.802
15	3238	-.164	.099	.052	-.883
15	3239	-.142	.084	.166	-.883
15	3240	-.143	.077	.139	-.661
15	3241	-.269	.123	.056	-1.072
15	3242	-.255	.123	.061	-1.030
15	3243	-.161	.095	.043	-.726
15	3244	-.162	.099	.035	-.782
15	3245	-.163	.075	.030	-.600
15	3246	-.137	.069	.061	-.482
15	3247	-.112	.058	.060	-.356
15	3248	-.163	.078	.116	-.504
15	3249	-.163	.075	.212	-.509
15	3250	-.166	.070	.057	-.480
15	3251	-.106	.062	.151	-.381
15	3252	-.185	.092	.107	-.804
15	3253	-.211	.099	.030	-1.172
15	3254	-.073	.048	.077	-.333
15	3255	-.155	.080	.033	-.703
15	3256	-.047	.062	.269	-.288
15	3257	-.078	.043	.044	-.298
15	3258	-.066	.044	.061	-.274
15	3259	-.097	.063	.075	-.469
15	3260	-.082	.060	.189	-.325
15	3261	-.083	.065	.160	-.404
15	3262	-.112	.073	.118	-.577
15	3263	-.094	.064	.142	-.567
15	3264	-.108	.077	.253	-.561
15	3265	-.163	.089	.031	-.585
15	3266	-.031	.042	.124	-.206
15	3267	-.062	.046	.094	-.272
15	4301	-.251	.120	.092	-1.089
15	4302	-.137	.104	.282	-.820
15	4303	-.233	.108	.187	-.793
15	4304	-.224	.107	.188	-.902
15	4305	-.244	.100	.134	-.821
15	4306	-.265	.094	.053	-.779
15	4307	-.263	.085	-.025	-.751
15	4308	-.243	.083	.003	-.717
15	4309	-.254	.084	-.004	-.708
15	4310	-.282	.103	0.000	-1.103
15	4311	-.250	.120	.086	-1.104
15	4312	-.248	.110	.035	-.807
15	4313	-.252	.121	.252	-1.029
15	4314	-.283	.090	-.003	-.725
15	4315	-.251	.121	.083	-1.094
15	4316	-.229	.111	.035	-1.016
15	4317	-.244	.116	.289	-.944
15	4318	-.257	.115	.198	-.921
15	4319	-.244	.103	.189	-.780
15	4320	-.225	.098	.182	-.750
15	4321	-.240	.106	.203	-.979
15	4322	-.245	.098	.260	-.735
15	4323	-.252	.105	.249	-.869
15	4324	-.226	.097	.286	-.712
15	4325	-.234	.089	.259	-.614
15	4326	-.246	.100	.191	-.863
15	4327	-.236	.095	.147	-.852
15	4328	-.217	.088	.101	-.801
15	4329	-.261	.111	.131	-.954
15	4330	-.265	.110	.104	-.949
15	4331	-.254	.102	.096	-.975
15	4332	-.243	.108	.119	-.839
15	4333	-.253	.104	.121	-.865
15	4334	-.259	.097	.008	-.850
15	4335	-.249	.091	.014	-.706
15	4336	-.224	.085	.033	-.616
15	4337	-.248	.090	.015	-.680
15	4338	-.244	.086	.005	-.774
15	4339	-.228	.083	.026	-.750
15	4340	-.217	.083	.041	-.745
15	4341	-.277	.096	.005	-.875
15	4342	-.272	.093	.015	-.669
15	4343	-.261	.119	.036	-.778
15	4344	-.237	.111	.053	-.750
15	4345	-.253	.114	.190	-.732
15	4346	-.270	.133	.060	-1.026
15	4347	-.257	.117	.049	-.891
15	4348	-.240	.120	.157	-.885
15	4349	-.268	.132	.077	-1.036
15	4350	-.268	.120	.111	-.833
15	4351	-.276	.124	.249	-.924
15	4352	-.265	.115	.133	-.921
15	4353	-.255	.116	.091	-.907
15	4354	-.286	.123	.033	-.944
15	4355	-.268	.103	.031	-.967
15	4356	-.249	.098	.078	-.835
15	4357	-.259	.104	.062	-.887
15	4358	-.280	.107	.025	-.860
15	4359	-.276	.118	.130	-.837
15	4360	-.293	.114	.049	-1.175
15	4361	-.260	.125	.056	-.989
15	4362	-.270	.124	.092	-.958
15	4363	-.292	.129	.102	-.898

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
15	4364	-.274	.130	.073	-.995
15	4365	-.259	.118	.084	-.902
15	4366	-.277	.125	.185	-1.068
15	4367	-.274	.119	.048	-.969
15	4368	-.248	.113	.108	-.746
15	4369	-.233	.104	.137	-.720
15	4370	-.250	.104	.092	-.794
15	4371	-.272	.119	.076	-1.061
15	4372	-.272	.121	.078	-1.146
15	4373	-.264	.115	.041	-1.338
15	4374	-.282	.121	.028	-1.487
15	4375	-.290	.101	-.012	-.865
15	4376	-.302	.111	.014	-1.128
15	4377	-.258	.107	.056	-.917
15	4378	-.261	.104	.020	-.814
15	4379	-.266	.130	.249	-.885
15	4380	-.250	.106	.069	-.793
15	4381	-.281	.117	.013	-1.083
15	4382	-.268	.135	.184	-.911
15	4383	-.260	.112	.030	-.868
15	4384	-.269	.112	.018	-.850
15	4385	-.228	.131	.321	-.861
15	4386	-.218	.122	.238	-.850
15	4387	-.239	.123	.137	-.770
15	4388	-.243	.119	.078	-.776
15	4389	-.254	.130	.155	-.856
15	4390	-.288	.139	.189	-1.086
15	4391	-.290	.130	.287	-.954
15	4392	-.316	.136	.078	-1.098
15	4393	-.326	.145	.058	-1.270
15	4394	-.327	.135	-.052	-1.133
15	4395	-.320	.125	-.034	-1.058
15	4396	-.313	.138	.009	-1.295
15	4397	-.357	.156	.011	-1.426
15	4398	-.368	.159	-.040	-1.341
15	4399	-.254	.127	.085	-1.256
15	4400	-.270	.131	.020	-1.211
15	4401	-.197	.118	.214	-.939
15	4402	-.234	.138	.086	-1.516
15	4403	-.243	.132	.037	-.892
15	4404	-.145	.109	.277	-.591
15	4405	-.186	.132	.226	-1.156
15	4406	-.077	.091	.327	-.521
15	4407	-.131	.106	.333	-.649
15	4408	-.160	.115	.270	-.811
15	4409	-.215	.128	.177	-.766
15	4410	-.272	.151	.152	-1.112
15	4411	-.316	.163	.190	-.949
15	4412	-.341	.160	.129	-1.144
15	4413	-.320	.149	.095	-1.338
15	4414	-.398	.164	-.031	-1.315
15	4415	-.148	.118	.209	-.946
15	4416	-.421	.204	.013	-1.431
15	4417	-.099	.098	.238	-.697
15	4418	-.230	.108	-.005	-1.026
15	4419	-.003	.063	.372	-.228
15	4420	-.023	.048	.242	-.235
15	4421	-.017	.058	.368	-.225
15	4422	-.034	.064	.376	-.318
15	4423	-.111	.089	.265	-.535
15	4424	-.126	.086	.107	-.579
15	9901	-.048	.038	.095	-.193
15	9902	-.030	.038	.102	-.210
15	9903	-.044	.042	.155	-.261
15	9904	-.071	.065	.141	-.372
15	9905	-.096	.060	.074	-.491
30	110	.237	.160	.845	-.301
30	111	.352	.170	1.055	-.261
30	112	.440	.178	1.136	-.059
30	130	-.283	.129	.031	-.833
30	140	-.336	.119	-.021	-.797
30	141	-.386	.140	-.037	-.984
30	142	-.342	.138	.011	-1.054
30	143	-.450	.181	.001	-1.480
30	144	-.405	.139	-.037	-.984
30	145	-.460	.159	-.011	-1.297
30	220	-.430	.148	.156	-1.139
30	221	-.357	.122	.006	-.972
30	230	-.323	.114	.003	-.939
30	231	-.357	.151	-.027	-1.333
30	310	-.142	.162	.498	-.615
30	320	-.202	.191	.329	-1.156
30	321	-.223	.114	.092	-.822
30	322	-.135	.181	.634	-1.298
30	323	-.246	.130	.111	-.950
30	324	-.142	.197	.612	-.855
30	325	-.239	.130	.105	-.974
30	330	-.257	.128	.053	-1.161
30	331	-.210	.104	.155	-.724
30	332	-.202	.105	.075	-.918
30	410	.053	.249	.933	-.675
30	411	-.127	.168	.603	-.705
30	440	-.247	.128	.128	-.948
30	441	-.103	.209	.638	-1.081
30	901	-.296	.120	.043	-.855
30	902	-.289	.110	.019	-.927
30	903	-.296	.111	.037	-.743
30	904	-.353	.112	-.044	-.884
30	905	-.366	.097	-.101	-.805
30	906	-.349	.117	.201	-.974
30	907	-.311	.111	.073	-.996
30	908	-.098	.227	.703	-.710
30	909	-.328	.118	.036	-.787
30	910	-.306	.105	-.065	-.809
30	911	-.316	.105	-.039	-.751
30	912	-.328	.082	-.115	-.591
30	1101	.123	.248	.877	-.961
30	1102	.402	.160	.991	-.113
30	1103	.377	.158	.968	-.067
30	1104	.335	.152	.902	-.100
30	1105	.347	.156	.998	-.145
30	1106	.333	.154	.927	-.136
30	1107	.326	.158	.901	-.121
30	1108	.337	.158	.983	-.216
30	1109	.347	.166	1.083	-.103
30	1110	-.140	.280	1.009	-1.349
30	1111	.361	.172	1.066	-.165
30	1112	-.328	.236	.527	-1.481
30	1113	-.148	.215	.652	-.886
30	1114	.352	.151	.970	-.188
30	1115	-.340	.258	.449	-1.282
30	1116	-.192	.215	.588	-.894
30	1117	.332	.152	.919	-.240
30	1118	.371	.171	1.099	-.131
30	1119	.441	.175	1.115	.001
30	1120	.443	.171	1.148	-.003
30	1121	.413	.176	.986	-.100
30	1122	.409	.172	.996	-.016
30	1123	.344	.157	.982	-.017
30	1124	-.216	.265	1.071	-1.178
30	1125	.363	.155	.983	-.093
30	1126	.386	.161	1.099	-.042
30	1127	.414	.164	1.097	.011
30	1128	.410	.166	1.083	.014
30	1129	.466	.169	1.130	.013
30	1130	.466	.170	1.108	-.035
30	1131	.454	.166	1.087	-.039
30	1132	.447	.161	1.000	-.010
30	1133	.383	.166	.983	-.046
30	1134	.384	.165	.986	-.012
30	1135	.344	.158	.977	-.048
30	1136	.330	.160	.937	-.097
30	1137	-.460	.238	.322	-1.320
30	1138	-.466	.277	.511	-1.675
30	1139	-.267	.248	.569	-1.205
30	1140	.449	.169	1.119	.020
30	1141	.477	.172	1.159	.059
30	1142	.476	.172	1.185	.042
30	1143	.478	.172	1.158	.065
30	1144	.455	.167	1.049	.023

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	1145	.363	.156	.927	-.133
30	1146	-.283	.271	.765	-1.177
30	1147	-.316	.236	.494	-1.143
30	1148	.385	.166	.975	-.147
30	1149	.391	.167	1.022	-.109
30	1150	.338	.156	.907	-.151
30	1151	-.479	.248	.281	-1.444
30	1152	-.469	.284	.808	-1.487
30	1153	-.478	.240	.429	-1.408
30	1154	-.289	.270	.574	-1.464
30	1155	-.322	.235	.522	-1.453
30	1156	.355	.162	.940	-.154
30	1157	.382	.157	1.088	-.147
30	1158	.319	.137	.868	-.139
30	1159	-.510	.244	.456	-1.600
30	1160	-.510	.277	.636	-1.694
30	1161	-.250	.279	.744	-1.569
30	1162	-.313	.237	.480	-1.677
30	1163	.331	.155	1.009	-.088
30	1164	.362	.158	1.047	-.049
30	1165	.418	.155	1.147	0.000
30	1166	.436	.157	1.185	.040
30	1167	.424	.155	1.118	.013
30	1168	.376	.141	.984	.027
30	1169	.326	.140	.849	-.024
30	1170	.310	.144	.836	-.094
30	1171	-.502	.246	.486	-1.714
30	1172	-.487	.274	.445	-1.663
30	1173	.340	.165	1.138	-.085
30	1174	-.524	.263	.370	-1.505
30	1175	-.269	.292	.725	-1.382
30	1176	-.324	.244	.448	-1.352
30	1177	.305	.148	.996	-.090
30	1178	.310	.149	1.008	-.089
30	1179	.260	.132	.969	-.119
30	1180	-.501	.243	.548	-1.557
30	1181	-.507	.278	.725	-1.681
30	1182	-.263	.281	.678	-1.606
30	1183	-.318	.239	.557	-1.593
30	1184	.280	.152	.871	-.144
30	1185	.306	.150	.910	-.232
30	1186	.258	.132	.905	-.176
30	1187	-.529	.245	.290	-1.553
30	1188	-.518	.279	.566	-1.522
30	1189	-.243	.274	.797	-1.202
30	1190	-.315	.238	.595	-1.175
30	1191	.289	.151	.943	-.174
30	1192	.321	.154	.973	-.089
30	1193	.319	.137	.925	-.078
30	1194	.335	.140	.935	-.174
30	1195	.326	.138	.955	-.074
30	1196	.291	.131	.854	-.158
30	1197	.256	.127	.761	-.055
30	1198	.238	.131	.774	-.128
30	1199	-.514	.283	.337	-1.699
30	1200	-.234	.264	.722	-1.164
30	1201	-.306	.206	.533	-1.202
30	1202	.231	.136	.781	-.174
30	1203	.251	.135	.832	-.107
30	1204	.191	.116	.659	-.172
30	1205	-.538	.264	.353	-1.574
30	1206	-.527	.299	.671	-1.698
30	1207	-.238	.267	.638	-1.222
30	1208	-.308	.224	.613	-1.231
30	1209	.238	.141	.917	-.175
30	1210	.244	.139	.850	-.172
30	1211	.191	.124	.754	-.197
30	1212	-.525	.258	.295	-1.505
30	1213	-.440	.281	.489	-1.595
30	1214	.202	.127	.819	-.242
30	1215	-.473	.252	.415	-1.475
30	1216	-.230	.256	.532	-1.354
30	1217	-.303	.221	.433	-1.600
30	1218	.201	.126	.791	-.177
30	1219	.232	.127	.800	-.093
30	1220	.206	.122	.725	-.097
30	1221	.242	.115	.864	-.066
30	1222	.249	.118	.862	-.011
30	1223	.241	.113	.803	-.057
30	1224	.197	.108	.714	-.054
30	1225	.171	.102	.637	-.085
30	1226	.178	.109	.712	-.068
30	1227	.163	.110	.631	-.104
30	1228	.139	.113	.612	-.259
30	1229	-.454	.305	.529	-1.729
30	1230	-.225	.247	.555	-1.299
30	1231	-.283	.214	.460	-1.237
30	1232	.164	.131	.669	-.231
30	1233	.190	.124	.831	-.146
30	1234	.145	.116	.742	-.198
30	1235	-.490	.264	.401	-1.578
30	1236	-.476	.300	.450	-1.615
30	1237	-.169	.222	.482	-1.129
30	1238	-.247	.199	.407	-1.068
30	1239	.134	.110	.652	-.198
30	1240	.135	.110	.638	-.162
30	1241	-.421	.256	.323	-1.366
30	1242	-.402	.292	.527	-1.461
30	1243	-.204	.206	.464	-1.059
30	1244	-.285	.185	.327	-1.093
30	1245	.132	.084	.611	-.117
30	1246	.171	.089	.754	-.052
30	1247	.168	.096	.787	-.041
30	1248	.195	.092	.787	-.012
30	1249	.146	.080	.588	-.082
30	1250	.115	.076	.548	-.092
30	1251	.096	.075	.561	-.102
30	1252	.080	.080	.568	-.167
30	1253	-.333	.259	.419	-1.467
30	1254	-.091	.106	.329	-.627
30	1255	-.252	.211	.363	-1.234
30	1256	.053	.071	.334	-.268
30	1257	-.073	.085	.300	-.450
30	1258	-.027	.054	.123	-.288
30	1259	.051	.045	.248	-.076
30	1260	.033	.067	.403	-.254
30	1261	.180	.088	.508	-.122
30	1262	.164	.087	.518	-.147
30	1263	.195	.089	.537	-.060
30	1264	.015	.065	.245	-.363
30	1265	-.069	.040	.075	-.265
30	1266	-.053	.074	.146	-.544
30	1267	-.034	.063	.173	-.364
30	1901	-.151	.127	.500	-.586
30	1902	-.165	.111	.288	-.638
30	1903	-.206	.125	.358	-.765
30	1904	-.153	.120	.761	-.673
30	1905	-.154	.098	.308	-.572
30	1906	-.266	.112	.060	-.929
30	1907	-.313	.110	.082	-.754
30	1908	-.392	.108	-.047	-1.019
30	1909	-.227	.102	.354	-.597
30	1910	-.247	.102	.190	-.721
30	1911	-.242	.101	.132	-.643
30	1912	-.217	.054	-.058	-.374
30	2301	-.472	.165	-.099	-1.236
30	2302	-.258	.118	-.060	-.892
30	2303	-.355	.121	-.020	-.935
30	2304	-.351	.126	.025	-.980
30	2305	-.330	.137	.266	-.989
30	2306	-.316	.142	.189	-1.061
30	2307	-.245	.150	.269	-1.186
30	2308	-.214	.160	.412	-1.184
30	2309	-.216	.162	.488	-.956
30	2310	-.207	.112	.337	-.994
30	2311	-.444	.172	-.049	-1.322
30	2312	-.445	.162	.123	-1.105
30	2313	-.352	.127	.036	-.938
30	2314	-.231	.112	.147	-.784
30	2315	-.418	.162	.303	-1.215

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	2316	-.417	.163	.180	-1.230
30	2317	-.346	.130	-.050	-.960
30	2318	-.338	.126	.014	-.949
30	2319	-.326	.126	.018	-.905
30	2320	-.329	.130	.027	-1.031
30	2321	-.331	.126	.024	-.956
30	2322	-.350	.141	.054	-1.324
30	2323	-.359	.153	.130	-1.627
30	2324	-.317	.141	.113	-1.163
30	2325	-.344	.156	.184	-1.435
30	2326	-.315	.127	.035	-.859
30	2327	-.306	.138	.124	-1.053
30	2328	-.316	.160	.108	-1.191
30	2329	-.285	.120	.121	-.879
30	2330	-.295	.134	.187	-.917
30	2331	-.287	.141	.216	-.872
30	2332	-.250	.118	.115	-.720
30	2333	-.271	.131	.155	-.804
30	2334	-.269	.141	.180	-.917
30	2335	-.224	.125	.247	-.805
30	2336	-.226	.147	.384	-.880
30	2337	-.224	.116	.166	-.727
30	2338	-.197	.125	.370	-.792
30	2339	-.199	.138	.348	-.853
30	2340	-.225	.156	.254	-1.005
30	2341	-.251	.130	.121	-.919
30	2342	-.242	.126	.119	-.838
30	2343	-.383	.157	-.018	-1.103
30	2344	-.380	.156	.090	-1.112
30	2345	-.323	.116	-.005	-1.019
30	2346	-.383	.156	.033	-1.304
30	2347	-.387	.149	.034	-1.347
30	2348	-.309	.126	.064	-1.001
30	2349	-.399	.158	-.024	-1.342
30	2350	-.327	.139	.042	-1.081
30	2351	-.335	.129	-.062	-.963
30	2352	-.331	.129	.003	-1.022
30	2353	-.295	.143	.196	-1.040
30	2354	-.300	.134	.157	-1.168
30	2355	-.247	.132	.226	-.954
30	2356	-.228	.126	.157	-.822
30	2357	-.213	.139	.256	-.841
30	2358	-.255	.142	.117	-.996
30	2359	-.335	.134	.003	-1.142
30	2360	-.253	.130	.108	-.872
30	2361	-.395	.162	-.017	-1.615
30	2362	-.402	.168	-.039	-1.566
30	2363	-.320	.129	-.082	-1.055
30	2364	-.385	.155	-.044	-1.291
30	2365	-.380	.152	.015	-1.226
30	2366	-.334	.132	-.074	-.971
30	2367	-.426	.181	-.068	-1.618
30	2368	-.357	.148	-.058	-1.441
30	2369	-.350	.150	-.015	-1.729
30	2370	-.367	.154	.056	-1.863
30	2371	-.313	.153	.187	-1.475
30	2372	-.280	.139	.220	-1.089
30	2373	-.252	.138	.171	-.973
30	2374	-.236	.135	.142	-.926
30	2375	-.198	.141	.398	-.879
30	2376	-.250	.138	.077	-1.201
30	2377	-.435	.183	-.040	-1.492
30	2378	-.430	.178	-.053	-2.301
30	2379	-.336	.135	.023	-1.226
30	2380	-.443	.186	-.046	-1.676
30	2381	-.414	.165	.139	-1.384
30	2382	-.338	.139	.001	-1.294
30	2383	-.421	.199	-.070	-1.539
30	2384	-.413	.193	.243	-1.475
30	2385	-.342	.162	.016	-1.512
30	2386	-.359	.165	-.006	-1.538
30	2387	-.349	.159	.000	-1.375
30	2388	-.363	.175	-.002	-1.572
30	2389	-.339	.162	.154	-1.746
30	2390	-.276	.158	.316	-1.174
30	2391	-.212	.138	.186	-1.002
30	2392	-.149	.121	.287	-.824
30	2393	-.152	.104	.184	-.775
30	2394	-.120	.109	.253	-.754
30	2395	-.097	.115	.267	-.629
30	2396	-.143	.144	.384	-.765
30	2397	-.181	.108	.084	-.720
30	2398	-.156	.109	.181	-.654
30	2399	-.430	.174	-.068	-1.514
30	2400	-.429	.177	.022	-1.531
30	2401	-.354	.153	-.044	-1.412
30	2402	-.441	.191	-.048	-1.811
30	2403	-.427	.194	.030	-1.496
30	2404	-.350	.172	.056	-1.407
30	2405	-.432	.205	.061	-1.639
30	2406	-.336	.190	.045	-1.595
30	2407	-.353	.196	.120	-1.697
30	2408	-.235	.160	.323	-.982
30	2409	-.088	.091	.513	-.555
30	2410	-.109	.079	.142	-.512
30	2411	-.057	.057	.201	-.391
30	2412	-.046	.055	.178	-.372
30	2413	-.006	.071	.525	-.303
30	2414	-.074	.065	.142	-.395
30	2415	-.323	.173	.045	-1.303
30	2416	-.076	.057	.107	-.474
30	2417	-.088	.071	.154	-.523
30	2418	-.065	.042	.081	-.283
30	3101	-.204	.099	.045	-.729
30	3102	-.171	.073	.024	-.479
30	3103	-.168	.069	.029	-.505
30	3104	-.164	.069	.054	-.522
30	3105	-.160	.069	.058	-.519
30	3106	-.153	.067	.100	-.498
30	3107	-.167	.074	.028	-.674
30	3108	-.173	.080	.054	-.688
30	3109	-.166	.078	.055	-.744
30	3110	-.197	.104	.041	-1.038
30	3111	-.159	.070	.069	-.620
30	3112	-.190	.105	.093	-1.198
30	3113	-.210	.102	.055	-.875
30	3114	-.169	.075	.046	-.537
30	3115	-.196	.094	.096	-.853
30	3116	-.210	.104	.049	-.962
30	3117	-.153	.079	.060	-.697
30	3118	-.156	.071	.039	-.530
30	3119	-.151	.063	.019	-.458
30	3120	-.144	.061	.018	-.449
30	3121	-.151	.059	.015	-.601
30	3122	-.151	.062	.015	-.736
30	3123	-.158	.070	.051	-.715
30	3124	-.194	.101	.040	-.808
30	3125	-.159	.074	.005	-.910
30	3126	-.155	.071	.005	-.724
30	3127	-.155	.066	.006	-.575
30	3128	-.153	.067	-.002	-.568
30	3129	-.152	.056	.018	-.438
30	3130	-.147	.055	.020	-.479
30	3131	-.150	.057	.006	-.578
30	3132	-.146	.057	.005	-.532
30	3133	-.158	.059	.038	-.486
30	3134	-.150	.059	.029	-.449
30	3135	-.153	.064	.036	-.461
30	3136	-.152	.068	.047	-.515
30	3137	-.182	.101	.102	-.760
30	3138	-.197	.109	.063	-.792
30	3139	-.202	.108	.064	-.999
30	3140	-.156	.065	.019	-.490
30	3141	-.141	.056	.018	-.515
30	3142	-.142	.056	.019	-.520
30	3143	-.140	.056	.016	-.475
30	3144	-.139	.061	.029	-.452
30	3145	-.146	.069	.061	-.528
30	3146	-.196	.098	.103	-.757
30	3147	-.207	.105	.112	-.804

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	3148	-.153	.065	.086	-.514
30	3149	-.157	.066	.018	-.617
30	3150	-.148	.070	.032	-.478
30	3151	-.186	.100	.084	-.786
30	3152	-.180	.094	.032	-.689
30	3153	-.180	.099	.097	-.823
30	3154	-.205	.102	.019	-.747
30	3155	-.216	.111	.034	-.793
30	3156	-.155	.061	.024	-.445
30	3157	-.156	.068	.028	-.556
30	3158	-.148	.068	.039	-.528
30	3159	-.192	.110	.110	-.821
30	3160	-.183	.102	.099	-.779
30	3161	-.210	.111	.087	-.757
30	3162	-.218	.120	.137	-.747
30	3163	-.168	.071	.054	-.732
30	3164	-.159	.065	.034	-.572
30	3165	-.156	.057	.007	-.388
30	3166	-.150	.053	-.008	-.338
30	3167	-.154	.055	-.010	-.389
30	3168	-.155	.062	.029	-.435
30	3169	-.152	.070	.038	-.643
30	3170	-.154	.075	.054	-.858
30	3171	-.199	.115	.112	-1.228
30	3172	-.192	.105	.064	-1.158
30	3173	-.170	.071	.087	-.513
30	3174	-.205	.119	.137	-.875
30	3175	-.223	.110	.095	-.842
30	3176	-.226	.117	.109	-.851
30	3177	-.166	.067	.010	-.525
30	3178	-.166	.067	.007	-.572
30	3179	-.159	.071	.026	-.511
30	3180	-.194	.110	.074	-.856
30	3181	-.200	.110	.056	-.895
30	3182	-.221	.111	.007	-.951
30	3183	-.232	.119	.006	-1.007
30	3184	-.178	.073	-.003	-.499
30	3185	-.168	.068	.007	-.589
30	3186	-.158	.067	.034	-.449
30	3187	-.192	.103	.059	-.956
30	3188	-.188	.097	.014	-.911
30	3189	-.221	.102	.051	-.747
30	3190	-.227	.111	.051	-.831
30	3191	-.185	.072	.008	-.513
30	3192	-.176	.065	-.001	-.430
30	3193	-.156	.057	-.013	-.426
30	3194	-.153	.055	-.013	-.382
30	3195	-.161	.058	.034	-.384
30	3196	-.164	.062	.044	-.435
30	3197	-.164	.060	.002	-.464
30	3198	-.163	.063	.007	-.466
30	3199	-.186	.081	.011	-.689
30	3200	-.192	.093	.044	-.731
30	3201	-.205	.107	.038	-.852
30	3202	-.174	.076	.059	-.515
30	3203	-.170	.072	.046	-.445
30	3204	-.187	.081	.012	-.659
30	3205	-.195	.089	.015	-.780
30	3206	-.194	.084	-.008	-.789
30	3207	-.167	.089	.046	-.636
30	3208	-.164	.093	.054	-.669
30	3209	-.152	.069	.079	-.449
30	3210	-.148	.066	.054	-.404
30	3211	-.205	.083	-.005	-.585
30	3212	-.217	.094	.004	-.704
30	3213	-.242	.093	0.000	-.902
30	3214	-.122	.065	.128	-.436
30	3215	-.241	.108	.012	-.889
30	3216	-.153	.101	.105	-.752
30	3217	-.171	.102	.107	-.686
30	3218	-.116	.066	.106	-.468
30	3219	-.130	.063	.061	-.453
30	3220	-.135	.060	.030	-.434
30	3221	-.170	.069	.019	-.561
30	3222	-.178	.073	.005	-.605
30	3223	-.192	.078	-.017	-.633
30	3224	-.226	.098	-.022	-.806
30	3225	-.246	.111	.026	-.939
30	3226	-.212	.099	.025	-.760
30	3227	-.229	.107	.019	-.860
30	3228	-.223	.102	.019	-.831
30	3229	-.278	.126	-.023	-1.534
30	3230	-.101	.077	.137	-.547
30	3231	-.105	.079	.232	-.604
30	3232	-.083	.062	.315	-.373
30	3233	-.104	.059	.102	-.371
30	3234	-.269	.131	-.031	-1.226
30	3235	-.286	.145	.030	-1.181
30	3236	-.298	.147	.007	-1.139
30	3237	-.114	.073	.188	-.594
30	3238	-.092	.074	.128	-.524
30	3239	-.064	.067	.261	-.404
30	3240	-.070	.061	.175	-.385
30	3241	-.344	.176	.088	-1.535
30	3242	-.334	.178	.002	-1.516
30	3243	-.096	.066	.090	-.553
30	3244	-.096	.067	.132	-.636
30	3245	-.091	.058	.141	-.357
30	3246	-.076	.052	.135	-.342
30	3247	-.077	.046	.082	-.264
30	3248	-.098	.075	.345	-.344
30	3249	-.124	.097	.318	-.531
30	3250	-.181	.081	.104	-.571
30	3251	-.112	.069	.217	-.444
30	3252	-.220	.114	.050	-.872
30	3253	-.202	.106	.100	-.863
30	3254	-.057	.038	.106	-.207
30	3255	-.124	.073	.094	-.482
30	3256	-.010	.056	.376	-.215
30	3257	-.083	.039	.039	-.257
30	3258	-.063	.038	.065	-.227
30	3259	-.077	.051	.114	-.549
30	3260	-.086	.060	.182	-.462
30	3261	-.071	.060	.209	-.301
30	3262	-.099	.063	.137	-.484
30	3263	-.071	.052	.148	-.348
30	3264	-.078	.062	.139	-.552
30	3265	-.101	.069	.080	-.455
30	3266	-.023	.040	.114	-.325
30	3267	-.080	.042	.066	-.264
30	4301	-.210	.128	.155	-1.015
30	4302	-.010	.145	.534	-.494
30	4303	-.158	.161	.375	-.864
30	4304	-.185	.148	.324	-.853
30	4305	-.279	.144	.283	-1.080
30	4306	-.315	.157	.341	-.845
30	4307	-.375	.145	.429	-.957
30	4308	-.372	.138	.034	-1.057
30	4309	-.389	.138	-.016	-1.251
30	4310	-.575	.254	.011	-1.930
30	4311	-.222	.126	.165	-1.167
30	4312	-.202	.112	.169	-.772
30	4313	-.101	.144	.426	-.789
30	4314	-.489	.184	-.106	-1.445
30	4315	-.220	.126	.100	-1.055
30	4316	-.208	.119	.086	-.922
30	4317	-.164	.168	.400	-1.055
30	4318	-.180	.154	.439	-.890
30	4319	-.184	.137	.375	-.820
30	4320	-.178	.126	.322	-.769
30	4321	-.205	.173	.491	-.982
30	4322	-.218	.144	.235	-.974
30	4323	-.250	.156	.244	-.964
30	4324	-.229	.148	.279	-.865
30	4325	-.245	.134	.201	-.833
30	4326	-.299	.169	.334	-.922
30	4327	-.297	.150	.300	-.899
30	4328	-.292	.140	.180	-.920
30	4329	-.351	.191	.341	-1.293
30	4330	-.319	.155	.223	-1.078

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	4331	-.312	.143	.186	-.988
30	4332	-.328	.164	.329	-1.314
30	4333	-.336	.153	.267	-1.349
30	4334	-.364	.163	.158	-1.471
30	4335	-.357	.147	.104	-1.233
30	4336	-.332	.139	.118	-1.112
30	4337	-.375	.151	.017	-1.225
30	4338	-.402	.165	.026	-1.133
30	4339	-.406	.164	-.002	-1.149
30	4340	-.353	.138	.005	-.865
30	4341	-.464	.173	.091	-1.183
30	4342	-.439	.163	.434	-1.097
30	4343	-.212	.131	.165	-.885
30	4344	-.199	.124	.197	-.853
30	4345	-.172	.167	.479	-.896
30	4346	-.213	.121	.248	-.816
30	4347	-.217	.120	.102	-.894
30	4348	-.182	.158	.319	-1.052
30	4349	-.221	.132	.096	-1.022
30	4350	-.158	.148	.396	-.831
30	4351	-.197	.142	.288	-.859
30	4352	-.210	.141	.207	-.915
30	4353	-.254	.144	.271	-.893
30	4354	-.305	.155	.136	-1.188
30	4355	-.360	.156	.180	-1.270
30	4356	-.357	.151	.055	-1.205
30	4357	-.403	.157	-.032	-1.190
30	4358	-.426	.172	.012	-1.300
30	4359	-.201	.160	.307	-.955
30	4360	-.406	.161	.149	-1.387
30	4361	-.212	.128	.108	-.965
30	4362	-.211	.111	.174	-.711
30	4363	-.212	.172	.389	-1.092
30	4364	-.211	.133	.216	-.978
30	4365	-.214	.122	.110	-.951
30	4366	-.192	.164	.407	-1.143
30	4367	-.212	.101	.063	-.727
30	4368	-.165	.142	.317	-1.114
30	4369	-.165	.129	.262	-1.021
30	4370	-.197	.137	.337	-1.024
30	4371	-.284	.156	.197	-1.068
30	4372	-.302	.172	.258	-1.088
30	4373	-.372	.185	.173	-1.422
30	4374	-.405	.188	.012	-1.685
30	4375	-.403	.180	.006	-1.446
30	4376	-.426	.191	-.068	-1.870
30	4377	-.209	.096	.037	-.761
30	4378	-.230	.101	.000	-.728
30	4379	-.130	.142	.345	-.987
30	4380	-.233	.102	.093	-.857
30	4381	-.256	.107	-.027	-.829
30	4382	-.115	.135	.553	-.896
30	4383	-.285	.139	.089	-1.013
30	4384	-.291	.133	.036	-1.031
30	4385	-.109	.126	.494	-.726
30	4386	-.075	.110	.491	-.563
30	4387	-.126	.106	.231	-.609
30	4388	-.143	.098	.114	-.593
30	4389	-.133	.112	.215	-.655
30	4390	-.184	.127	.268	-.829
30	4391	-.204	.154	.534	-1.155
30	4392	-.310	.188	.185	-1.484
30	4393	-.360	.209	.112	-1.697
30	4394	-.358	.192	.071	-1.509
30	4395	-.357	.170	.006	-1.312
30	4396	-.382	.195	.011	-2.160
30	4397	-.482	.237	.081	-2.581
30	4398	-.488	.242	.027	-2.479
30	4399	-.313	.177	.068	-1.312
30	4400	-.341	.177	-.003	-1.404
30	4401	-.082	.107	.393	-.630
30	4402	-.280	.190	.247	-1.535
30	4403	-.318	.178	.030	-1.532
30	4404	-.069	.094	.377	-.500
30	4405	-.223	.162	.119	-1.078
30	4406	-.013	.075	.361	-.349
30	4407	-.053	.074	.255	-.375
30	4408	-.059	.076	.254	-.426
30	4409	-.083	.086	.229	-.604
30	4410	-.104	.112	.407	-.653
30	4411	-.179	.120	.200	-.886
30	4412	-.228	.133	.119	-1.079
30	4413	-.238	.159	.109	-1.381
30	4414	-.321	.166	.120	-1.405
30	4415	-.130	.124	.250	-.857
30	4416	-.232	.138	.112	-1.072
30	4417	-.052	.070	.163	-.496
30	4418	-.124	.077	.148	-.465
30	4419	.015	.060	.364	-.162
30	4420	-.007	.045	.209	-.164
30	4421	-.001	.053	.308	-.170
30	4422	-.014	.056	.311	-.267
30	4423	-.075	.063	.162	-.624
30	4424	-.057	.060	.124	-.472
30	9901	-.038	.036	.144	-.204
30	9902	-.015	.035	.122	-.193
30	9903	-.029	.038	.150	-.297
30	9904	-.027	.051	.145	-.271
30	9905	-.052	.049	.088	-.269
45	110	.243	.148	.815	-.158
45	111	.443	.184	1.159	-.026
45	112	.354	.185	1.135	-.422
45	130	-.387	.134	-.006	-.858
45	140	-.386	.130	-.044	-1.094
45	141	-.462	.208	.230	-1.271
45	142	-.416	.120	-.076	-.961
45	143	-.246	.279	.720	-1.133
45	144	-.561	.162	-.102	-1.125
45	145	-.574	.282	.420	-1.654
45	220	-.306	.099	-.046	-.885
45	221	-.269	.092	-.032	-.759
45	230	-.275	.093	-.023	-.663
45	231	-.312	.122	-.018	-.843
45	310	-.081	.145	.672	-.637
45	320	-.308	.152	.173	-.992
45	321	-.285	.131	.049	-.882
45	322	-.283	.145	.147	-1.085
45	323	-.278	.130	.034	-1.050
45	324	-.245	.112	.245	-.721
45	325	-.256	.113	.036	-.876
45	330	-.286	.131	.027	-1.358
45	331	-.320	.149	.006	-.943
45	332	-.364	.180	.012	-1.216
45	410	.546	.224	1.271	-.314
45	411	-.074	.134	.473	-.711
45	440	-.226	.077	.006	-.662
45	441	.235	.143	.759	-.399
45	901	-.291	.095	-.020	-.805
45	902	-.322	.093	-.038	-.732
45	903	-.363	.106	-.009	-.777
45	904	-.421	.116	-.065	-.956
45	905	-.406	.092	-.156	-.822
45	906	-.399	.150	.245	-.972
45	907	-.266	.094	.095	-.740
45	908	.153	.197	.812	-.492
45	909	-.419	.137	.015	-1.096
45	910	-.395	.115	-.063	-.834
45	911	-.391	.114	.007	-.859
45	912	-.398	.084	-.163	-.684
45	1101	.360	.207	1.065	-.655
45	1102	.447	.166	1.004	-.103
45	1103	.411	.162	.950	-.019
45	1104	.364	.157	.907	-.143
45	1105	.355	.150	.907	-.119
45	1106	.292	.157	.874	-.256
45	1107	.298	.151	.957	-.104
45	1108	.312	.148	.880	-.105
45	1109	.348	.152	.984	-.077
45	1110	-.332	.191	.541	-1.092
45	1111	.442	.161	1.139	-.028

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
45	1112	-.396	.151	.276	-1.109
45	1113	.149	.243	.872	-.734
45	1114	.314	.143	.957	-.087
45	1115	-.380	.176	.433	-1.308
45	1116	.115	.251	.844	-.910
45	1117	.310	.149	.933	-.119
45	1118	.433	.171	.998	-.078
45	1119	.461	.172	1.014	.022
45	1120	.444	.168	1.038	.054
45	1121	.384	.158	.984	-.188
45	1122	.398	.155	.973	-.064
45	1123	.307	.134	.846	-.063
45	1124	.105	.249	.887	-.813
45	1125	.457	.157	.981	.032
45	1126	.478	.160	1.027	.053
45	1127	.481	.159	1.030	.025
45	1128	.470	.160	1.040	.045
45	1129	.453	.158	1.086	.025
45	1130	.447	.155	1.038	.084
45	1131	.394	.150	.945	.018
45	1132	.419	.149	.934	.040
45	1133	.370	.136	.944	.032
45	1134	.378	.135	.910	.039
45	1135	.329	.124	.825	.022
45	1136	.337	.134	.898	-.010
45	1137	-.428	.162	.423	-1.073
45	1138	-.446	.181	.216	-1.428
45	1139	.159	.291	1.112	-.945
45	1140	.515	.177	1.213	.076
45	1141	.505	.165	1.221	.081
45	1142	.486	.159	1.164	.053
45	1143	.454	.161	1.194	-.058
45	1144	.437	.153	1.062	-.004
45	1145	.331	.140	.905	-.047
45	1146	.183	.287	1.166	-1.062
45	1147	.124	.278	1.160	-1.046
45	1148	.473	.171	1.140	.005
45	1149	.467	.185	1.170	-.032
45	1150	.312	.146	.890	-.110
45	1151	-.435	.163	.043	-1.399
45	1152	-.451	.176	.201	-1.476
45	1153	-.454	.177	.052	-1.504
45	1154	.157	.290	1.029	-1.727
45	1155	.093	.281	.959	-1.756
45	1156	.469	.180	1.088	-.028
45	1157	.464	.176	1.100	.028
45	1158	.298	.133	.846	-.212
45	1159	-.435	.167	.043	-1.516
45	1160	-.453	.177	.255	-1.556
45	1161	.118	.297	.982	-1.049
45	1162	.044	.288	1.022	-1.106
45	1163	.431	.169	1.086	.043
45	1164	.453	.167	1.067	.048
45	1165	.489	.170	1.187	-.027
45	1166	.474	.160	1.113	-.010
45	1167	.405	.146	1.021	.021
45	1168	.366	.132	.866	.026
45	1169	.290	.116	.797	-.107
45	1170	.302	.131	.918	-.147
45	1171	-.460	.176	.182	-1.324
45	1172	-.476	.183	.201	-1.365
45	1173	.405	.172	1.177	-.030
45	1174	-.474	.178	.155	-1.232
45	1175	.082	.285	.935	-1.015
45	1176	.011	.268	.828	-1.033
45	1177	.409	.165	.970	-.141
45	1178	.414	.165	.983	-.103
45	1179	.279	.133	.796	-.209
45	1180	-.499	.183	.071	-1.346
45	1181	-.503	.192	.360	-1.372
45	1182	.083	.260	1.052	-1.074
45	1183	.007	.251	1.002	-1.020
45	1184	.364	.152	.982	-.021
45	1185	.362	.162	1.105	-.071
45	1186	.234	.126	.894	-.140
45	1187	-.519	.191	.038	-1.523
45	1188	-.536	.207	.210	-1.632
45	1189	-.021	.248	.797	-.907
45	1190	-.085	.236	.685	-.953
45	1191	.292	.139	.954	-.051
45	1192	.313	.140	.982	.005
45	1193	.370	.143	.958	.011
45	1194	.368	.139	.973	.042
45	1195	.322	.135	.916	-.015
45	1196	.285	.121	.760	-.021
45	1197	.242	.115	.768	-.056
45	1198	.244	.125	.760	-.091
45	1199	-.566	.219	.261	-1.434
45	1200	-.026	.236	.618	-1.179
45	1201	-.074	.214	.789	-.798
45	1202	.283	.134	.853	-.298
45	1203	.295	.133	.832	-.240
45	1204	.179	.106	.609	-.160
45	1205	-.571	.194	.165	-1.499
45	1206	-.582	.211	.216	-1.464
45	1207	-.049	.223	.640	-.933
45	1208	-.123	.202	.543	-.903
45	1209	.255	.123	.980	-.066
45	1210	.261	.121	.950	-.030
45	1211	.164	.106	.652	-.154
45	1212	-.612	.214	.116	-1.417
45	1213	-.539	.244	.305	-1.651
45	1214	.194	.114	.750	-.167
45	1215	-.557	.221	.116	-1.434
45	1216	-.106	.213	.857	-1.079
45	1217	-.158	.196	.552	-1.109
45	1218	.211	.114	.731	-.105
45	1219	.233	.117	.835	-.068
45	1220	.219	.109	.723	-.028
45	1221	.238	.108	.736	-.046
45	1222	.246	.107	.715	-.015
45	1223	.225	.108	.687	-.096
45	1224	.193	.099	.622	-.066
45	1225	.155	.094	.716	-.098
45	1226	.171	.098	.761	-.153
45	1227	.156	.102	.756	-.211
45	1228	.138	.103	.709	-.171
45	1229	-.556	.219	.372	-1.520
45	1230	-.079	.182	.441	-1.036
45	1231	-.137	.169	.458	-1.087
45	1232	.165	.099	.695	-.206
45	1233	.172	.099	.642	-.113
45	1234	.104	.100	.637	-.211
45	1235	-.556	.214	.189	-1.627
45	1236	-.542	.240	.249	-1.699
45	1237	-.090	.171	.406	-.889
45	1238	-.151	.157	.411	-.976
45	1239	.144	.093	.606	-.158
45	1240	.150	.092	.554	-.117
45	1241	-.556	.216	.119	-1.441
45	1242	-.526	.243	.319	-1.450
45	1243	-.126	.159	.337	-.787
45	1244	-.184	.143	.329	-.807
45	1245	.129	.072	.590	-.070
45	1246	.172	.078	.646	-.031
45	1247	.162	.079	.480	-.049
45	1248	.192	.082	.610	.014
45	1249	.145	.082	.578	-.067
45	1250	.111	.079	.572	-.117
45	1251	.088	.079	.532	-.206
45	1252	.077	.083	.453	-.282
45	1253	-.413	.234	.437	-1.553
45	1254	-.075	.094	.268	-.586
45	1255	-.311	.197	.295	-1.008
45	1256	.049	.077	.512	-.192
45	1257	-.034	.066	.210	-.335
45	1258	.001	.049	.197	-.190
45	1259	.058	.050	.278	-.089
45	1260	.031	.064	.352	-.223
45	1261	.155	.089	.693	-.041

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
45	1262	.154	.089	.586	-.059
45	1263	.186	.091	.654	-.044
45	1264	.010	.064	.244	-.340
45	1265	-.071	.040	.098	-.275
45	1266	-.009	.064	.200	-.485
45	1267	.007	.058	.205	-.288
45	1901	-.071	.149	.455	-.720
45	1902	.031	.093	.463	-.339
45	1903	-.102	.094	.279	-.573
45	1904	-.055	.104	.561	-.447
45	1905	-.096	.084	.298	-.379
45	1906	-.197	.072	.032	-.511
45	1907	-.230	.082	.047	-.573
45	1908	-.366	.093	-.050	-.844
45	1909	-.155	.082	.116	-.524
45	1910	-.161	.091	.139	-.551
45	1911	-.191	.091	.185	-.524
45	1912	-.189	.046	-.042	-.371
45	2301	-.311	.102	-.006	-.863
45	2302	-.153	.079	.089	-.655
45	2303	-.264	.079	.081	-.682
45	2304	-.262	.082	.143	-.682
45	2305	-.276	.092	.058	-.702
45	2306	-.261	.098	.103	-.854
45	2307	-.235	.101	.072	-.800
45	2308	-.222	.092	.116	-.775
45	2309	-.249	.099	.080	-.741
45	2310	-.260	.113	.029	-.858
45	2311	-.279	.091	.022	-.680
45	2312	-.298	.104	.154	-.828
45	2313	-.251	.084	-.012	-.666
45	2314	-.264	.105	.069	-.867
45	2315	-.270	.095	-.019	-.933
45	2316	-.272	.098	-.001	-.948
45	2317	-.245	.082	-.032	-.708
45	2318	-.261	.088	.019	-.872
45	2319	-.246	.087	.016	-.870
45	2320	-.246	.091	.010	-1.085
45	2321	-.254	.084	-.012	-.671
45	2322	-.277	.091	.010	-.847
45	2323	-.264	.097	.027	-.926
45	2324	-.254	.093	.040	-.795
45	2325	-.278	.100	.098	-.897
45	2326	-.272	.092	.048	-.879
45	2327	-.262	.100	.075	-.876
45	2328	-.265	.107	.116	-.883
45	2329	-.251	.084	.034	-.660
45	2330	-.273	.095	.030	-.854
45	2331	-.261	.097	.037	-.880
45	2332	-.240	.087	-.014	-.664
45	2333	-.265	.095	-.019	-.809
45	2334	-.271	.094	.012	-.765
45	2335	-.246	.089	.042	-.686
45	2336	-.246	.094	.060	-.752
45	2337	-.263	.095	.025	-.805
45	2338	-.261	.097	.032	-.676
45	2339	-.265	.104	.061	-.704
45	2340	-.255	.100	.067	-.716
45	2341	-.269	.103	-.001	-.733
45	2342	-.291	.118	.062	-.951
45	2343	-.277	.094	.031	-.743
45	2344	-.279	.099	.033	-.788
45	2345	-.253	.085	.023	-.700
45	2346	-.281	.098	.022	-.762
45	2347	-.296	.104	.040	-1.042
45	2348	-.246	.088	.062	-.736
45	2349	-.308	.109	-.025	-1.313
45	2350	-.267	.099	.036	-.939
45	2351	-.279	.097	.003	-.806
45	2352	-.275	.098	.003	-.769
45	2353	-.276	.108	-.004	-.974
45	2354	-.277	.101	.056	-.968
45	2355	-.268	.095	-.006	-.736
45	2356	-.261	.095	.005	-.647
45	2357	-.272	.102	.045	-.757
45	2358	-.281	.113	-.008	-.823
45	2359	-.286	.095	.053	-.749
45	2360	-.276	.112	.048	-.887
45	2361	-.309	.109	-.019	-.876
45	2362	-.317	.111	.036	-1.203
45	2363	-.286	.095	-.029	-.826
45	2364	-.329	.109	-.013	-.889
45	2365	-.329	.112	.017	-.876
45	2366	-.306	.102	-.010	-.853
45	2367	-.352	.109	-.056	-1.107
45	2368	-.337	.116	-.058	-.981
45	2369	-.325	.117	-.048	-.941
45	2370	-.353	.122	-.071	-1.044
45	2371	-.332	.117	.012	-.883
45	2372	-.309	.116	.016	-1.044
45	2373	-.279	.117	.058	-.966
45	2374	-.295	.119	.039	-.968
45	2375	-.313	.132	.034	-1.012
45	2376	-.308	.130	.020	-.972
45	2377	-.391	.125	.058	-1.114
45	2378	-.393	.127	-.056	-1.062
45	2379	-.313	.105	-.067	-1.009
45	2380	-.410	.137	-.090	-1.297
45	2381	-.380	.123	-.064	-1.292
45	2382	-.326	.113	-.044	-1.557
45	2383	-.412	.146	-.060	-1.294
45	2384	-.411	.145	-.079	-1.190
45	2385	-.360	.131	-.008	-1.119
45	2386	-.396	.138	-.080	-1.289
45	2387	-.348	.137	-.055	-1.228
45	2388	-.360	.146	-.054	-1.304
45	2389	-.352	.142	.201	-1.112
45	2390	-.338	.142	.308	-1.240
45	2391	-.321	.140	.205	-1.105
45	2392	-.261	.138	.199	-.976
45	2393	-.231	.125	.124	-.847
45	2394	-.223	.129	.287	-.807
45	2395	-.236	.131	.183	-.804
45	2396	-.257	.134	.188	-.838
45	2397	-.253	.117	.052	-.958
45	2398	-.227	.119	.050	-.838
45	2399	-.429	.159	-.043	-1.339
45	2400	-.435	.160	-.047	-1.372
45	2401	-.379	.145	-.042	-1.220
45	2402	-.464	.166	-.058	-1.369
45	2403	-.460	.178	-.043	-1.482
45	2404	-.393	.162	-.044	-1.398
45	2405	-.482	.184	-.071	-1.812
45	2406	-.465	.203	-.035	-2.092
45	2407	-.443	.178	-.029	-1.477
45	2408	-.292	.163	.255	-1.016
45	2409	-.114	.105	.372	-.520
45	2410	-.134	.090	.268	-.659
45	2411	-.072	.067	.188	-.483
45	2412	-.056	.061	.178	-.403
45	2413	-.013	.086	.435	-.283
45	2414	-.064	.067	.214	-.577
45	2415	-.390	.157	.036	-1.067
45	2416	-.074	.052	.340	-.286
45	2417	-.096	.069	.220	-.467
45	2418	-.074	.043	.055	-.251
45	3101	-.231	.103	.034	-.895
45	3102	-.187	.072	.024	-.536
45	3103	-.175	.065	.028	-.455
45	3104	-.167	.061	.033	-.425
45	3105	-.168	.063	.024	-.485
45	3106	-.167	.060	.021	-.393
45	3107	-.191	.068	-.014	-.490
45	3108	-.195	.067	.033	-.460
45	3109	-.193	.068	.019	-.420
45	3110	-.209	.079	.019	-.791
45	3111	-.179	.067	.030	-.643
45	3112	-.202	.078	.029	-.723
45	3113	-.225	.093	.012	-.635
45	3114	-.178	.065	.026	-.431

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
45	3115	-.192	.072	.028	-.653
45	3116	-.222	.090	.026	-.591
45	3117	-.167	.060	.058	-.396
45	3118	-.171	.057	.005	-.407
45	3119	-.166	.054	-.013	-.419
45	3120	-.164	.054	.003	-.429
45	3121	-.177	.058	-.014	-.507
45	3122	-.173	.057	-.014	-.485
45	3123	-.177	.058	-.011	-.467
45	3124	-.214	.085	-.006	-.643
45	3125	-.171	.059	.022	-.439
45	3126	-.168	.057	.024	-.421
45	3127	-.167	.055	-.001	-.400
45	3128	-.167	.056	-.006	-.406
45	3129	-.167	.053	-.019	-.367
45	3130	-.169	.054	-.016	-.365
45	3131	-.174	.055	-.018	-.359
45	3132	-.168	.054	-.006	-.349
45	3133	-.168	.055	-.005	-.374
45	3134	-.166	.055	-.005	-.370
45	3135	-.166	.057	.009	-.371
45	3136	-.162	.057	.019	-.363
45	3137	-.196	.069	.055	-.561
45	3138	-.182	.066	.003	-.527
45	3139	-.240	.094	.015	-.757
45	3140	-.182	.059	-.006	-.445
45	3141	-.170	.056	.050	-.436
45	3142	-.165	.055	.019	-.430
45	3143	-.170	.055	.015	-.433
45	3144	-.166	.057	.014	-.433
45	3145	-.172	.059	.015	-.402
45	3146	-.219	.087	.019	-.658
45	3147	-.234	.091	.010	-.681
45	3148	-.184	.063	.009	-.409
45	3149	-.180	.058	-.005	-.446
45	3150	-.164	.060	.024	-.569
45	3151	-.182	.066	.028	-.799
45	3152	-.176	.064	.026	-.712
45	3153	-.189	.072	.042	-.633
45	3154	-.226	.092	.016	-.756
45	3155	-.241	.098	.010	-.787
45	3156	-.191	.066	.019	-.462
45	3157	-.181	.061	-.015	-.431
45	3158	-.161	.058	.004	-.440
45	3159	-.178	.065	.003	-.542
45	3160	-.173	.062	.002	-.533
45	3161	-.227	.091	.035	-.830
45	3162	-.233	.097	.057	-.833
45	3163	-.189	.062	.013	-.450
45	3164	-.180	.059	.024	-.438
45	3165	-.180	.061	-.013	-.466
45	3166	-.172	.061	.002	-.406
45	3167	-.179	.063	.010	-.435
45	3168	-.173	.063	.024	-.399
45	3169	-.183	.062	-.003	-.449
45	3170	-.177	.064	.012	-.452
45	3171	-.195	.072	.033	-.572
45	3172	-.189	.068	.045	-.521
45	3173	-.207	.065	-.008	-.479
45	3174	-.198	.068	.004	-.483
45	3175	-.244	.095	.000	-.710
45	3176	-.252	.102	.019	-.712
45	3177	-.191	.063	.022	-.491
45	3178	-.187	.063	.004	-.435
45	3179	-.177	.062	-.007	-.435
45	3180	-.185	.065	-.008	-.489
45	3181	-.204	.075	.010	-.703
45	3182	-.251	.099	.040	-.749
45	3183	-.265	.106	.045	-.775
45	3184	-.216	.071	-.003	-.547
45	3185	-.197	.061	-.008	-.658
45	3186	-.182	.064	.033	-.456
45	3187	-.196	.068	.025	-.594
45	3188	-.192	.066	.016	-.569
45	3189	-.254	.104	.007	-.858
45	3190	-.257	.111	.038	-.872
45	3191	-.212	.076	-.029	-.752
45	3192	-.204	.070	-.025	-.584
45	3193	-.210	.069	-.008	-.474
45	3194	-.209	.071	-.022	-.516
45	3195	-.218	.075	-.032	-.728
45	3196	-.214	.074	-.008	-.669
45	3197	-.200	.070	-.005	-.439
45	3198	-.195	.070	.002	-.454
45	3199	-.206	.075	.000	-.626
45	3200	-.242	.102	.019	-.941
45	3201	-.277	.113	-.015	-.830
45	3202	-.230	.080	-.027	-.634
45	3203	-.228	.077	-.042	-.507
45	3204	-.232	.084	-.040	-.627
45	3205	-.241	.085	-.038	-.688
45	3206	-.237	.083	-.032	-.627
45	3207	-.251	.102	-.002	-.752
45	3208	-.250	.105	-.008	-.817
45	3209	-.214	.078	.007	-.756
45	3210	-.209	.075	.007	-.629
45	3211	-.229	.086	-.039	-1.240
45	3212	-.237	.087	-.025	-.985
45	3213	-.230	.083	-.023	-.713
45	3214	-.196	.073	.058	-.514
45	3215	-.241	.100	-.034	-.791
45	3216	-.180	.095	.076	-.625
45	3217	-.223	.106	.068	-.788
45	3218	-.181	.075	.033	-.524
45	3219	-.187	.075	.007	-.519
45	3220	-.188	.072	.002	-.507
45	3221	-.205	.073	-.011	-.583
45	3222	-.235	.084	-.029	-.789
45	3223	-.234	.088	-.020	-.798
45	3224	-.240	.095	.009	-1.014
45	3225	-.247	.104	-.011	-.902
45	3226	-.241	.100	-.006	-.852
45	3227	-.247	.106	-.009	-.832
45	3228	-.243	.103	-.014	-.749
45	3229	-.276	.120	-.023	-1.033
45	3230	-.142	.090	.160	-.566
45	3231	-.135	.094	.170	-.587
45	3232	-.124	.073	.171	-.399
45	3233	-.115	.068	.131	-.405
45	3234	-.265	.127	.008	-1.054
45	3235	-.272	.138	.027	-1.313
45	3236	-.281	.140	.012	-1.330
45	3237	-.085	.081	.154	-.664
45	3238	-.081	.084	.201	-.653
45	3239	-.049	.065	.240	-.388
45	3240	-.052	.059	.212	-.366
45	3241	-.277	.144	.040	-1.102
45	3242	-.290	.146	.109	-1.105
45	3243	-.075	.067	.166	-.549
45	3244	-.077	.072	.196	-.627
45	3245	-.039	.066	.336	-.259
45	3246	-.060	.054	.190	-.278
45	3247	-.075	.051	.124	-.316
45	3248	-.081	.095	.579	-.528
45	3249	-.083	.102	.497	-.401
45	3250	-.176	.087	.236	-.554
45	3251	-.113	.074	.184	-.478
45	3252	-.225	.116	.101	-1.014
45	3253	-.175	.114	.098	-.832
45	3254	-.065	.042	.091	-.352
45	3255	-.090	.082	.250	-.427
45	3256	.003	.061	.334	-.228
45	3257	-.077	.044	.068	-.335
45	3258	-.068	.041	.084	-.308
45	3259	-.068	.058	.229	-.372
45	3260	-.110	.087	.364	-.675
45	3261	-.026	.086	.401	-.335
45	3262	-.076	.082	.294	-.444
45	3263	-.039	.076	.318	-.331
45	3264	-.014	.090	.410	-.332

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
45	3265	-.037	.060	.134	-.384
45	3266	-.020	.047	.158	-.251
45	3267	-.077	.043	.075	-.275
45	4301	-.244	.097	.015	-.742
45	4302	.260	.140	.910	-.472
45	4303	.137	.131	.659	-.613
45	4304	.049	.101	.501	-.606
45	4305	-.226	.123	.335	-.724
45	4306	-.004	.203	.630	-.832
45	4307	-.282	.243	.525	-1.060
45	4308	-.446	.159	.135	-1.052
45	4309	-.469	.160	-.081	-1.102
45	4310	-.525	.308	.590	-1.638
45	4311	-.220	.083	.036	-.841
45	4312	-.210	.082	.014	-.850
45	4313	.151	.133	.854	-.329
45	4314	-.573	.293	.544	-1.490
45	4315	-.207	.080	.074	-.644
45	4316	-.191	.079	.026	-.667
45	4317	.082	.127	.643	-.789
45	4318	.056	.114	.511	-.548
45	4319	.020	.095	.349	-.552
45	4320	.003	.089	.317	-.536
45	4321	.087	.144	.607	-.640
45	4322	.015	.110	.388	-.665
45	4323	-.011	.115	.417	-.843
45	4324	.028	.137	.494	-.767
45	4325	-.034	.126	.426	-.749
45	4326	-.076	.157	.493	-.755
45	4327	-.143	.125	.241	-.705
45	4328	-.159	.130	.149	-.814
45	4329	-.039	.256	.607	-1.099
45	4330	-.069	.216	.453	-.911
45	4331	-.102	.202	.424	-.854
45	4332	-.083	.309	.767	-1.201
45	4333	-.136	.265	.559	-1.106
45	4334	-.196	.288	.404	-1.353
45	4335	-.236	.268	.555	-1.037
45	4336	-.242	.240	.515	-1.024
45	4337	-.374	.239	.458	-1.513
45	4338	-.309	.170	.239	-1.089
45	4339	-.314	.171	.201	-1.077
45	4340	-.376	.190	.217	-1.133
45	4341	-.562	.302	.779	-1.706
45	4342	-.564	.256	.488	-1.513
45	4343	-.208	.078	.008	-.653
45	4344	-.192	.080	.042	-.709
45	4345	.055	.144	.571	-.656
45	4346	-.209	.080	.036	-.740
45	4347	-.220	.081	.015	-.574
45	4348	.038	.140	.548	-.578
45	4349	-.228	.083	.021	-.733
45	4350	.045	.116	.467	-.641
45	4351	-.043	.123	.316	-.830
45	4352	-.053	.133	.302	-.863
45	4353	-.141	.140	.366	-.884
45	4354	-.142	.211	.451	-1.016
45	4355	-.297	.236	.465	-1.353
45	4356	-.361	.197	.311	-1.405
45	4357	-.307	.181	.327	-1.316
45	4358	-.496	.240	.392	-1.532
45	4359	-.013	.143	.586	-.709
45	4360	-.453	.230	.623	-1.446
45	4361	-.200	.082	.124	-.632
45	4362	-.215	.083	.007	-.829
45	4363	-.050	.147	.544	-.802
45	4364	-.227	.088	.072	-.712
45	4365	-.223	.086	.026	-.676
45	4366	-.059	.143	.460	-.807
45	4367	-.239	.090	.020	-.684
45	4368	-.070	.117	.313	-.588
45	4369	-.079	.103	.326	-.560
45	4370	-.102	.113	.234	-.844
45	4371	-.181	.131	.214	-.927
45	4372	-.182	.173	.320	-.956
45	4373	-.270	.185	.317	-1.208
45	4374	-.333	.168	.186	-1.197
45	4375	-.270	.153	.183	-1.185
45	4376	-.440	.210	.347	-1.681
45	4377	-.260	.096	.008	-.742
45	4378	-.260	.099	-.011	-.730
45	4379	-.054	.115	.422	-.560
45	4380	-.267	.104	.057	-.874
45	4381	-.278	.103	-.049	-.792
45	4382	-.062	.109	.375	-.666
45	4383	-.291	.130	.035	-1.188
45	4384	-.294	.122	.030	-1.011
45	4385	-.067	.108	.410	-.545
45	4386	-.031	.089	.372	-.480
45	4387	-.073	.082	.188	-.506
45	4388	-.087	.076	.147	-.492
45	4389	-.069	.084	.216	-.547
45	4390	-.109	.094	.176	-.616
45	4391	-.130	.130	.390	-.817
45	4392	-.206	.152	.350	-1.072
45	4393	-.248	.167	.269	-1.297
45	4394	-.246	.151	.192	-1.148
45	4395	-.204	.129	.124	-1.010
45	4396	-.248	.130	.102	-.926
45	4397	-.332	.170	.511	-1.149
45	4398	-.333	.166	.330	-1.157
45	4399	-.316	.165	.104	-1.179
45	4400	-.337	.162	.019	-1.185
45	4401	-.058	.098	.445	-.536
45	4402	-.276	.179	.122	-1.440
45	4403	-.290	.162	.067	-1.054
45	4404	-.059	.086	.280	-.476
45	4405	-.189	.146	.138	-1.027
45	4406	-.002	.068	.301	-.286
45	4407	-.040	.070	.220	-.353
45	4408	-.039	.075	.235	-.397
45	4409	-.054	.085	.285	-.524
45	4410	-.067	.101	.264	-.648
45	4411	-.119	.113	.343	-.741
45	4412	-.147	.120	.192	-.831
45	4413	-.107	.114	.211	-.945
45	4414	-.210	.136	.104	-1.030
45	4415	-.087	.089	.183	-.641
45	4416	-.143	.100	.111	-.780
45	4417	-.025	.064	.193	-.379
45	4418	-.078	.068	.133	-.550
45	4419	.040	.060	.310	-.158
45	4420	.005	.050	.266	-.213
45	4421	.014	.052	.240	-.218
45	4422	.000	.055	.256	-.277
45	4423	-.023	.055	.250	-.252
45	4424	-.028	.054	.176	-.296
45	9901	-.009	.044	.208	-.168
45	9902	-.007	.043	.204	-.163
45	9903	-.006	.045	.243	-.156
45	9904	.002	.056	.249	-.256
45	9905	-.009	.045	.191	-.226
60	110	.121	.128	.602	-.282
60	111	.470	.204	1.299	-.212
60	112	-.080	.245	.778	-.857
60	130	-.302	.116	-.001	-.899
60	140	-.265	.090	.129	-.632
60	141	.076	.166	.750	-.574
60	142	-.343	.128	.104	-.783
60	143	.317	.235	.952	-.823
60	144	-.580	.213	.200	-1.668
60	145	.183	.266	.983	-.837
60	220	-.270	.101	.012	-.843
60	221	-.248	.090	-.027	-.710
60	230	-.278	.099	.005	-.740
60	231	-.317	.120	-.006	-.857
60	310	.197	.162	.895	-.283
60	320	-.263	.113	.036	-.960
60	321	-.249	.109	.044	-.942
60	322	-.260	.124	.051	-.971

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	323	-.240	.098	.052	-.949
60	324	-.217	.099	.060	-.970
60	325	-.211	.089	.034	-.648
60	330	-.226	.099	.069	-.688
60	331	-.307	.119	-.001	-.849
60	332	-.356	.147	-.020	-1.097
60	410	.470	.199	1.311	-.182
60	411	-.186	.124	.249	-.664
60	440	-.205	.091	.005	-.751
60	441	-.349	.176	1.015	-.258
60	901	-.232	.113	.145	-.923
60	902	-.275	.089	.042	-.652
60	903	-.317	.100	.061	-.703
60	904	-.354	.117	-.026	-.819
60	905	-.339	.092	-.107	-.672
60	906	-.319	.132	.097	-.862
60	907	-.226	.087	.031	-.590
60	908	.096	.196	.758	-.612
60	909	-.386	.131	.072	-.872
60	910	-.297	.120	.157	-.773
60	911	-.250	.114	.137	-.715
60	912	-.318	.081	-.106	-.572
60	1101	.429	.212	1.070	-.350
60	1102	.244	.227	1.034	-.590
60	1103	.340	.201	.989	-.351
60	1104	.280	.164	.982	-.284
60	1105	.271	.160	1.063	-.146
60	1106	.057	.177	1.207	-.578
60	1107	.220	.146	.982	-.270
60	1108	.227	.145	1.038	-.166
60	1109	.314	.176	.986	-.321
60	1110	-.319	.142	.229	-1.035
60	1111	-.330	.198	.986	-.412
60	1112	-.304	.126	.125	-1.021
60	1113	.384	.215	1.070	-.766
60	1114	-.259	.163	.834	-.262
60	1115	-.300	.126	.196	-.987
60	1116	.373	.219	1.048	-.737
60	1117	.233	.156	.804	-.268
60	1118	.329	.190	1.014	-.303
60	1119	.331	.166	.965	-.086
60	1120	.301	.160	.973	-.080
60	1121	.168	.138	.699	-.376
60	1122	.270	.151	.825	-.163
60	1123	.182	.120	.634	-.119
60	1124	.354	.215	1.180	-.812
60	1125	.363	.202	1.039	-.144
60	1126	.392	.200	1.009	-.174
60	1127	.367	.174	1.003	-.031
60	1128	.342	.174	.978	-.056
60	1129	.330	.168	1.118	-.146
60	1130	.318	.161	1.032	-.091
60	1131	.157	.148	.764	-.242
60	1132	.321	.171	1.171	-.133
60	1133	.223	.127	.713	-.173
60	1134	.242	.132	.755	-.167
60	1135	.210	.123	.679	-.183
60	1136	.247	.149	.771	-.219
60	1137	-.284	.120	-.001	-1.070
60	1138	-.295	.131	.178	-1.142
60	1139	.392	.241	1.241	-.606
60	1140	.416	.202	1.148	-.261
60	1141	.397	.182	1.186	-.085
60	1142	.372	.172	1.176	-.150
60	1143	.267	.173	1.186	-.360
60	1144	.319	.167	1.061	-.171
60	1145	.237	.165	.846	-.223
60	1146	.318	.233	1.069	-.498
60	1147	.299	.240	1.105	-.486
60	1148	.311	.203	1.100	-.415
60	1149	.334	.199	1.164	-.263
60	1150	.225	.154	.838	-.274
60	1151	-.303	.131	.041	-.980
60	1152	-.309	.139	-.230	-1.053
60	1153	-.306	.130	-.006	-1.146
60	1154	.271	.216	1.064	-.691
60	1155	.246	.226	1.083	-.729
60	1156	.272	.176	.986	-.355
60	1157	.289	.187	1.078	-.221
60	1158	.183	.139	.824	-.198
60	1159	-.317	.130	.002	-1.003
60	1160	-.321	.136	.223	-1.007
60	1161	.225	.200	.964	-.690
60	1162	.218	.212	.964	-.715
60	1163	.238	.163	.903	-.195
60	1164	.259	.163	.916	-.217
60	1165	.257	.159	.947	-.129
60	1166	.235	.144	.864	-.127
60	1167	.126	.133	.822	-.215
60	1168	.166	.121	.735	-.142
60	1169	.123	.098	.579	-.152
60	1170	.144	.120	.800	-.217
60	1171	-.321	.132	.083	-.953
60	1172	-.326	.135	.187	-.985
60	1173	-.189	.148	.903	-.174
60	1174	-.338	.139	.081	-1.291
60	1175	.133	.183	.955	-.678
60	1176	.117	.189	1.027	-.676
60	1177	.176	.134	.749	-.198
60	1178	.176	.135	.752	-.234
60	1179	.104	.108	.650	-.429
60	1180	-.356	.147	.225	-1.002
60	1181	-.353	.150	.194	-1.243
60	1182	.079	.154	.631	-.536
60	1183	.056	.160	.632	-.584
60	1184	.129	.116	.730	-.244
60	1185	.152	.127	.737	-.307
60	1186	.086	.105	.516	-.331
60	1187	-.398	.157	.130	-1.091
60	1188	-.398	.168	.216	-1.184
60	1189	.051	.150	.587	-.625
60	1190	.038	.161	.626	-.698
60	1191	.113	.103	.586	-.249
60	1192	.129	.102	.595	-.224
60	1193	.129	.099	.658	-.137
60	1194	.129	.097	.631	-.124
60	1195	.089	.104	.630	-.316
60	1196	.094	.092	.609	-.203
60	1197	.079	.085	.478	-.230
60	1198	.078	.093	.462	-.255
60	1199	-.409	.183	.275	-1.315
60	1200	.024	.135	.605	-.720
60	1201	.010	.143	.517	-.734
60	1202	.101	.099	.714	-.227
60	1203	.103	.099	.706	-.232
60	1204	.045	.098	.551	-.282
60	1205	-.420	.185	.093	-1.563
60	1206	-.408	.203	.259	-1.620
60	1207	-.001	.117	.467	-.594
60	1208	-.024	.121	.472	-.563
60	1209	.080	.089	.592	-.334
60	1210	.084	.088	.588	-.348
60	1211	.042	.091	.590	-.321
60	1212	-.429	.203	.083	-1.568
60	1213	-.391	.211	.362	-1.386
60	1214	.071	.078	.457	-.331
60	1215	-.410	.195	.215	-1.490
60	1216	-.028	.117	.378	-.647
60	1217	-.033	.118	.390	-.718
60	1218	.068	.073	.441	-.261
60	1219	.077	.073	.462	-.255
60	1220	.073	.066	.447	-.204
60	1221	.082	.065	.393	-.206
60	1222	.092	.065	.391	-.109
60	1223	.078	.071	.387	-.194
60	1224	.069	.068	.371	-.176
60	1225	.045	.075	.478	-.218
60	1226	.058	.079	.585	-.214
60	1227	.038	.084	.484	-.279
60	1228	.028	.087	.524	-.313

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	1229	-.365	.206	.272	-1.871
60	1230	-.034	.104	.313	-.490
60	1231	-.058	.106	.260	-.544
60	1232	.056	.070	.378	-.317
60	1233	.061	.071	.554	-.247
60	1234	.034	.081	.512	-.337
60	1235	-.366	.185	.227	-1.895
60	1236	-.331	.204	.331	-1.974
60	1237	-.037	.097	.279	-.746
60	1238	-.055	.093	.268	-.736
60	1239	.050	.064	.345	-.406
60	1240	.051	.061	.322	-.368
60	1241	-.318	.175	.267	-1.462
60	1242	-.268	.189	.236	-1.226
60	1243	-.045	.081	.182	-.537
60	1244	-.066	.078	.181	-.512
60	1245	.061	.051	.303	-.161
60	1246	.080	.053	.304	-.079
60	1247	.083	.052	.303	-.131
60	1248	.092	.057	.352	-.076
60	1249	.062	.060	.405	-.128
60	1250	.052	.061	.377	-.186
60	1251	.044	.064	.359	-.196
60	1252	.032	.067	.327	-.239
60	1253	-.194	.160	.234	-1.211
60	1254	-.029	.054	.165	-.280
60	1255	-.145	.136	.242	-.903
60	1256	.013	.061	.368	-.452
60	1257	-.006	.044	.213	-.164
60	1258	.006	.038	.199	-.141
60	1259	.028	.043	.272	-.107
60	1260	.024	.046	.215	-.204
60	1261	.066	.055	.322	-.076
60	1262	.059	.055	.309	-.111
60	1263	.075	.062	.430	-.086
60	1264	-.005	.052	.269	-.197
60	1265	-.047	.032	.065	-.177
60	1266	-.006	.048	.146	-.252
60	1267	-.009	.047	.130	-.420
60	1901	-.148	.157	.389	-.766
60	1902	.029	.098	.474	-.297
60	1903	.006	.072	.343	-.266
60	1904	.116	.105	.585	-.192
60	1905	.087	.083	.427	-.241
60	1906	-.075	.068	.220	-.302
60	1907	-.113	.084	.336	-.431
60	1908	-.277	.107	.113	-.820
60	1909	-.001	.061	.224	-.514
60	1910	-.009	.073	.254	-.307
60	1911	-.004	.066	.230	-.323
60	1912	.010	.042	.113	-.166
60	2301	-.218	.089	.053	-.671
60	2302	-.097	.070	.093	-.480
60	2303	-.220	.076	.024	-.751
60	2304	-.208	.075	.037	-.699
60	2305	-.235	.084	.041	-.669
60	2306	-.252	.097	.037	-.678
60	2307	-.225	.111	.054	-.681
60	2308	-.188	.085	.057	-.617
60	2309	-.223	.091	.032	-.711
60	2310	-.223	.105	-.007	-.775
60	2311	-.223	.089	.054	-.674
60	2312	-.215	.087	.092	-.698
60	2313	-.187	.071	.057	-.516
60	2314	-.253	.101	-.007	-.827
60	2315	-.232	.091	.024	-.804
60	2316	-.233	.096	.049	-.886
60	2317	-.221	.081	.018	-.755
60	2318	-.226	.081	-.017	-.717
60	2319	-.207	.080	.003	-.706
60	2320	-.202	.082	.016	-.876
60	2321	-.215	.076	-.034	-.626
60	2322	-.240	.077	.000	-.590
60	2323	-.220	.079	.033	-.566
60	2324	-.209	.075	.042	-.533
60	2325	-.235	.079	.030	-.575
60	2326	-.250	.080	-.017	-.651
60	2327	-.237	.084	-.004	-.639
60	2328	-.235	.086	.009	-.667
60	2329	-.225	.075	-.001	-.657
60	2330	-.233	.079	.123	-.620
60	2331	-.215	.079	.138	-.613
60	2332	-.195	.075	.117	-.516
60	2333	-.223	.079	.112	-.546
60	2334	-.249	.083	-.026	-.573
60	2335	-.218	.079	-.007	-.555
60	2336	-.217	.081	-.001	-.576
60	2337	-.233	.085	-.020	-.673
60	2338	-.216	.089	.014	-.812
60	2339	-.220	.092	.004	-.757
60	2340	-.240	.092	.004	-.670
60	2341	-.250	.099	-.025	-.814
60	2342	-.254	.086	-.004	-.815
60	2343	-.236	.089	.010	-.765
60	2344	-.236	.088	.011	-.754
60	2345	-.245	.096	-.020	-.929
60	2346	-.249	.094	.024	-.792
60	2347	-.236	.095	-.011	-.692
60	2348	-.235	.093	-.010	-.675
60	2349	-.245	.101	-.017	-.791
60	2350	-.234	.096	.054	-.775
60	2351	-.247	.092	-.019	-.730
60	2352	-.227	.094	.028	-.688
60	2353	-.243	.096	-.013	-.823
60	2354	-.238	.102	-.001	-.739
60	2355	-.263	.105	.010	-.722
60	2356	-.235	.094	.028	-.893
60	2357	-.247	.097	-.000	-.727
60	2358	-.226	.086	.053	-.659
60	2359	-.255	.104	-.026	-.744
60	2360	-.230	.093	.049	-.779
60	2361	-.233	.099	.057	-.946
60	2362	-.298	.115	-.021	-.903
60	2363	-.258	.101	.000	-.771
60	2364	-.230	.092	.103	-.858
60	2365	-.233	.098	.085	-.859
60	2366	-.223	.084	.079	-.741
60	2367	-.327	.130	-.012	-1.035
60	2368	-.234	.089	.042	-.681
60	2369	-.237	.096	.040	-.744
60	2370	-.229	.082	.011	-.605
60	2371	-.264	.097	.052	-.859
60	2372	-.258	.098	.024	-.886
60	2373	-.219	.084	.045	-.703
60	2374	-.278	.103	.046	-.880
60	2375	-.233	.103	.094	-.782
60	2376	-.262	.100	-.004	-.793
60	2377	-.320	.134	-.009	-1.321
60	2378	-.284	.106	-.010	-.791
60	2379	-.294	.125	-.014	-1.109
60	2380	-.332	.144	-.025	-1.305
60	2381	-.342	.146	-.024	-1.218
60	2382	-.301	.136	-.026	-1.146
60	2383	-.348	.153	.039	-1.629
60	2384	-.345	.148	.091	-1.545
60	2385	-.307	.142	.124	-1.471
60	2386	-.314	.151	-.038	-1.357
60	2387	-.319	.151	.062	-1.336
60	2388	-.329	.165	.073	-1.567
60	2389	-.314	.152	.086	-1.289
60	2390	-.262	.129	.096	-1.090
60	2391	-.209	.113	.163	-.866
60	2392	-.145	.093	.151	-.761
60	2393	-.120	.080	.127	-.657
60	2394	-.114	.083	.195	-.682
60	2395	-.104	.076	.168	-.450
60	2396	-.110	.090	.224	-.639
60	2397	-.142	.081	.042	-.564
60	2398	-.116	.080	.103	-.640
60	2399	-.360	.161	.048	-1.464

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	2400	-.360	.157	.000	-1.225
60	2401	-.312	.148	.004	-1.344
60	2402	-.366	.156	.034	-1.362
60	2403	-.380	.157	.009	-1.753
60	2404	-.323	.147	.005	-1.563
60	2405	-.364	.148	.006	-1.246
60	2406	-.296	.147	.056	-1.569
60	2407	-.279	.142	.048	-1.588
60	2408	-.108	.107	.364	-.646
60	2409	-.058	.060	.268	-.457
60	2410	-.073	.057	.206	-.390
60	2411	-.042	.044	.225	-.257
60	2412	-.034	.043	.249	-.224
60	2413	-.020	.047	.374	-.177
60	2414	-.033	.043	.154	-.432
60	2415	-.216	.104	.138	-.777
60	2416	-.043	.037	.109	-.242
60	2417	-.061	.051	.161	-.318
60	2418	-.044	.035	.105	-.218
60	3101	-.164	.088	.085	-.690
60	3102	-.133	.060	.076	-.388
60	3103	-.123	.055	.056	-.350
60	3104	-.116	.052	.065	-.354
60	3105	-.139	.056	.018	-.360
60	3106	-.143	.056	-.007	-.360
60	3107	-.165	.059	-.011	-.451
60	3108	-.159	.060	-.008	-.401
60	3109	-.155	.062	.014	-.426
60	3110	-.165	.069	.022	-.448
60	3111	-.145	.059	.008	-.441
60	3112	-.161	.068	.030	-.443
60	3113	-.197	.094	.023	-.680
60	3114	-.148	.058	.025	-.391
60	3115	-.158	.062	.029	-.441
60	3116	-.194	.090	.067	-.711
60	3117	-.148	.059	.030	-.383
60	3118	-.157	.062	.009	-.479
60	3119	-.150	.057	.013	-.391
60	3120	-.147	.056	-.008	-.376
60	3121	-.148	.053	.002	-.444
60	3122	-.143	.052	.013	-.415
60	3123	-.143	.054	.026	-.393
60	3124	-.172	.076	.016	-.769
60	3125	-.151	.049	-.014	-.396
60	3126	-.146	.048	.000	-.395
60	3127	-.144	.046	-.003	-.404
60	3128	-.145	.048	.016	-.434
60	3129	-.143	.051	-.009	-.373
60	3130	-.143	.052	-.009	-.362
60	3131	-.147	.054	-.003	-.388
60	3132	-.141	.053	.003	-.350
60	3133	-.148	.049	-.009	-.428
60	3134	-.147	.049	.005	-.428
60	3135	-.144	.050	.033	-.423
60	3136	-.141	.050	.030	-.419
60	3137	-.157	.060	.054	-.455
60	3138	-.160	.059	.015	-.494
60	3139	-.183	.083	.073	-.578
60	3140	-.142	.053	.056	-.336
60	3141	-.154	.051	.019	-.329
60	3142	-.151	.051	.026	-.362
60	3143	-.153	.052	.031	-.441
60	3144	-.150	.052	.027	-.333
60	3145	-.156	.053	.014	-.394
60	3146	-.194	.079	.007	-.719
60	3147	-.201	.084	.014	-.755
60	3148	-.165	.055	-.022	-.456
60	3149	-.168	.055	.004	-.450
60	3150	-.150	.055	.019	-.386
60	3151	-.161	.059	.061	-.433
60	3152	-.156	.057	.100	-.399
60	3153	-.165	.061	.009	-.488
60	3154	-.201	.087	.041	-.700
60	3155	-.209	.092	.021	-.750
60	3156	-.171	.062	.032	-.451
60	3157	-.186	.061	-.021	-.470
60	3158	-.166	.059	.019	-.457
60	3159	-.174	.062	.021	-.453
60	3160	-.170	.061	.012	-.451
60	3161	-.209	.083	-.026	-.714
60	3162	-.209	.089	.031	-.760
60	3163	-.177	.063	-.019	-.533
60	3164	-.168	.059	-.003	-.451
60	3165	-.168	.057	.011	-.445
60	3166	-.161	.054	-.013	-.365
60	3167	-.166	.057	-.014	-.411
60	3168	-.158	.057	-.010	-.463
60	3169	-.169	.059	.006	-.382
60	3170	-.163	.060	.019	-.391
60	3171	-.172	.063	.024	-.426
60	3172	-.168	.061	.027	-.399
60	3173	-.193	.059	.001	-.435
60	3174	-.176	.063	.058	-.484
60	3175	-.219	.081	.006	-.820
60	3176	-.222	.085	.017	-.826
60	3177	-.205	.066	-.016	-.687
60	3178	-.203	.069	-.015	-.901
60	3179	-.179	.062	.024	-.468
60	3180	-.186	.065	.007	-.564
60	3181	-.178	.066	.006	-.425
60	3182	-.224	.088	-.015	-.804
60	3183	-.227	.092	-.001	-.805
60	3184	-.204	.074	-.030	-.769
60	3185	-.209	.073	-.014	-.583
60	3186	-.196	.071	-.000	-.583
60	3187	-.201	.075	.001	-.703
60	3188	-.199	.073	-.005	-.635
60	3189	-.246	.089	-.006	-.785
60	3190	-.247	.092	.014	-.765
60	3191	-.227	.080	.014	-.648
60	3192	-.217	.074	.010	-.554
60	3193	-.211	.071	-.036	-.518
60	3194	-.218	.074	-.020	-.636
60	3195	-.233	.082	-.046	-.618
60	3196	-.225	.080	-.030	-.647
60	3197	-.234	.083	-.006	-.573
60	3198	-.229	.082	.029	-.537
60	3199	-.232	.083	-.006	-.648
60	3200	-.228	.092	.017	-.684
60	3201	-.232	.092	-.021	-.848
60	3202	-.223	.082	-.010	-.787
60	3203	-.213	.078	-.004	-.675
60	3204	-.254	.102	-.000	-.664
60	3205	-.251	.092	-.041	-.740
60	3206	-.248	.090	-.039	-.709
60	3207	-.178	.076	.039	-.603
60	3208	-.172	.077	.039	-.561
60	3209	-.193	.075	.027	-.525
60	3210	-.185	.072	.002	-.508
60	3211	-.273	.104	-.054	-1.292
60	3212	-.282	.103	-.039	-.931
60	3213	-.286	.112	-.040	-.912
60	3214	-.129	.064	.041	-.443
60	3215	-.291	.123	-.048	-1.079
60	3216	-.131	.075	.054	-.592
60	3217	-.126	.069	.036	-.603
60	3218	-.119	.062	.133	-.399
60	3219	-.126	.063	.063	-.414
60	3220	-.134	.061	.014	-.401
60	3221	-.157	.076	.041	-.600
60	3222	-.217	.092	.006	-.714
60	3223	-.241	.099	-.007	-.779
60	3224	-.267	.109	-.033	-.944
60	3225	-.271	.129	-.019	-1.004
60	3226	-.268	.122	-.037	-1.008
60	3227	-.269	.126	-.039	-1.105
60	3228	-.273	.125	-.045	-1.168
60	3229	-.276	.121	-.040	-1.161
60	3230	-.085	.072	.140	-.540
60	3231	-.078	.073	.143	-.562

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	3232	-.073	.059	.191	-.352
60	3233	-.069	.052	.155	-.420
60	3234	-.275	.135	-.004	-1.006
60	3235	-.285	.138	-.030	-.938
60	3236	-.295	.137	-.026	-.963
60	3237	-.048	.054	.117	-.762
60	3238	-.048	.056	.137	-.752
60	3239	-.024	.050	.217	-.247
60	3240	-.032	.046	.189	-.217
60	3241	-.248	.132	.048	-.959
60	3242	-.262	.132	.029	-.959
60	3243	-.046	.045	.160	-.374
60	3244	-.051	.048	.161	-.406
60	3245	-.026	.051	.292	-.180
60	3246	-.042	.044	.189	-.204
60	3247	-.039	.037	.212	-.199
60	3248	-.082	.072	.208	-.503
60	3249	-.061	.056	.342	-.342
60	3250	-.080	.077	.450	-.425
60	3251	-.065	.064	.185	-.330
60	3252	-.176	.112	.099	-.814
60	3253	-.165	.096	.074	-.847
60	3254	-.048	.037	.079	-.288
60	3255	-.095	.063	.097	-.427
60	3256	-.012	.045	.243	-.163
60	3257	-.051	.037	.079	-.192
60	3258	-.045	.036	.133	-.161
60	3259	-.040	.042	.106	-.298
60	3260	-.078	.065	.260	-.465
60	3261	-.018	.058	.304	-.204
60	3262	-.053	.055	.234	-.335
60	3263	-.025	.054	.284	-.266
60	3264	-.014	.061	.382	-.255
60	3265	-.005	.040	.148	-.147
60	3266	-.018	.038	.192	-.152
60	3267	-.049	.034	.058	-.229
60	4301	-.204	.081	.019	-.605
60	4302	.323	.147	.834	-.114
60	4303	.165	.123	.698	-.264
60	4304	.105	.101	.671	-.259
60	4305	-.157	.110	.348	-.553
60	4306	.152	.138	.985	-.417
60	4307	.167	.181	1.025	-.562
60	4308	-.125	.225	.894	-.698
60	4309	-.177	.156	.538	-.712
60	4310	.246	.298	1.058	-1.064
60	4311	-.190	.067	.004	-.540
60	4312	-.176	.066	-.014	-.661
60	4313	.220	.147	.884	-.179
60	4314	.098	.314	.962	-1.163
60	4315	-.181	.063	.011	-.489
60	4316	-.159	.060	.023	-.423
60	4317	.159	.119	.611	-.314
60	4318	.141	.109	.559	-.144
60	4319	.105	.085	.431	-.138
60	4320	.098	.079	.418	-.198
60	4321	.195	.126	.706	-.141
60	4322	.121	.099	.520	-.335
60	4323	.110	.095	.512	-.361
60	4324	.171	.121	.675	-.314
60	4325	.119	.111	.615	-.320
60	4326	.045	.112	.616	-.299
60	4327	-.038	.092	.305	-.410
60	4328	-.004	.092	.350	-.321
60	4329	.217	.146	.825	-.380
60	4330	.149	.121	.736	-.470
60	4331	.135	.118	.652	-.456
60	4332	.245	.162	.955	-.825
60	4333	.165	.133	.710	-.599
60	4334	.139	.136	.597	-.588
60	4335	.179	.192	.844	-.571
60	4336	.150	.179	.791	-.518
60	4337	.060	.224	.985	-.776
60	4338	.046	.204	.980	-.889
60	4339	.045	.187	.865	-.775
60	4340	-.001	.174	.632	-.850
60	4341	.075	.308	.982	-1.223
60	4342	.028	.358	.928	-1.117
60	4343	-.186	.065	-.007	-.509
60	4344	-.162	.063	.018	-.543
60	4345	.150	.124	.777	-.199
60	4346	-.199	.068	.003	-.539
60	4347	-.177	.067	-.001	-.511
60	4348	.122	.106	.671	-.234
60	4349	-.192	.074	.060	-.674
60	4350	.096	.106	.634	-.242
60	4351	.050	.086	.492	-.312
60	4352	.063	.087	.506	-.255
60	4353	-.017	.084	.291	-.309
60	4354	.095	.110	.606	-.457
60	4355	.062	.182	.818	-.882
60	4356	-.026	.199	.780	-1.088
60	4357	-.000	.194	.769	-.917
60	4358	-.051	.303	.969	-1.258
60	4359	.076	.098	.499	-.221
60	4360	-.034	.271	.787	-1.000
60	4361	-.195	.068	.025	-.596
60	4362	-.217	.077	.060	-.567
60	4363	.057	.102	.609	-.299
60	4364	-.223	.083	.011	-.666
60	4365	-.208	.081	.018	-.623
60	4366	.042	.095	.653	-.371
60	4367	-.279	.104	.051	-.726
60	4368	.005	.081	.406	-.315
60	4369	-.003	.067	.314	-.284
60	4370	-.008	.070	.361	-.351
60	4371	-.058	.075	.189	-.508
60	4372	.011	.096	.324	-.622
60	4373	-.004	.139	.555	-.782
60	4374	-.071	.150	.423	-.918
60	4375	-.060	.144	.548	-.736
60	4376	-.100	.210	.495	-.856
60	4377	-.298	.116	-.026	-1.145
60	4378	-.285	.102	-.050	-.789
60	4379	-.012	.086	.486	-.319
60	4380	-.311	.123	.001	-1.006
60	4381	-.323	.130	-.064	-1.068
60	4382	-.026	.077	.469	-.398
60	4383	-.345	.151	.040	-1.240
60	4384	-.339	.141	-.045	-1.164
60	4385	-.030	.074	.451	-.318
60	4386	-.027	.067	.327	-.290
60	4387	-.042	.056	.249	-.335
60	4388	-.045	.054	.255	-.303
60	4389	-.026	.057	.274	-.275
60	4390	-.040	.059	.295	-.303
60	4391	-.024	.073	.227	-.503
60	4392	-.040	.091	.262	-.613
60	4393	-.058	.102	.307	-.616
60	4394	-.062	.098	.297	-.582
60	4395	-.080	.091	.210	-.536
60	4396	-.076	.097	.536	-.541
60	4397	-.086	.128	.537	-.701
60	4398	-.097	.119	.548	-.751
60	4399	-.302	.160	.107	-1.032
60	4400	-.316	.155	.038	-1.021
60	4401	-.033	.062	.409	-.472
60	4402	-.225	.145	.109	-.956
60	4403	-.280	.141	.004	-.994
60	4404	-.022	.054	.365	-.232
60	4405	-.164	.120	.163	-.786
60	4406	-.011	.048	.199	-.246
60	4407	-.015	.047	.220	-.240
60	4408	-.008	.047	.206	-.250
60	4409	-.016	.047	.184	-.268
60	4410	-.019	.051	.199	-.261
60	4411	-.042	.062	.258	-.367
60	4412	-.046	.065	.257	-.407
60	4413	-.051	.060	.120	-.372
60	4414	-.068	.074	.216	-.493

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	4415	-.088	.087	.179	-.793
60	4416	-.046	.060	.146	-.463
60	4417	-.015	.057	.312	-.344
60	4418	-.021	.048	.153	-.433
60	4419	.032	.058	.373	-.154
60	4420	.011	.051	.286	-.147
60	4421	.016	.050	.296	-.136
60	4422	.007	.052	.293	-.172
60	4423	-.005	.046	.354	-.180
60	4424	-.013	.046	.384	-.220
60	9901	.002	.043	.207	-.133
60	9902	.001	.042	.203	-.128
60	9903	-.002	.041	.201	-.122
60	9904	.010	.043	.191	-.212
60	9905	.006	.038	.219	-.164
75	110	-.028	.101	.419	-.377
75	111	-.278	.231	1.070	-.945
75	112	-.268	.160	.350	-1.099
75	130	-.230	.099	.096	-.633
75	140	-.137	.126	.369	-.612
75	141	-.213	.169	.822	-.281
75	142	-.078	.214	.905	-.764
75	143	.421	.221	1.195	-.556
75	144	-.231	.304	.754	-1.332
75	145	.349	.215	1.056	-.554
75	220	-.198	.088	.058	-.665
75	221	-.197	.077	.021	-.577
75	230	-.233	.088	.020	-.684
75	231	-.244	.103	.081	-.969
75	310	.199	.171	.896	-.223
75	320	-.210	.093	.034	-.710
75	321	-.192	.089	.044	-.686
75	322	-.233	.126	.084	-.814
75	323	-.195	.094	.051	-.616
75	324	-.181	.087	.055	-.764
75	325	-.175	.080	.023	-.725
75	330	-.190	.096	.038	-.802
75	331	-.218	.105	.047	-.783
75	332	-.238	.129	.063	-.838
75	410	.339	.196	1.074	-.360
75	411	-.268	.129	.255	-.740
75	440	-.252	.121	.154	-.816
75	441	.345	.193	1.008	-.206
75	901	-.194	.132	.245	-.856
75	902	-.250	.094	.030	-.582
75	903	-.312	.122	.098	-.898
75	904	-.322	.120	.003	-.793
75	905	-.324	.101	-.064	-.670
75	906	-.296	.122	.165	-.790
75	907	-.246	.095	.047	-.634
75	908	.002	.188	.730	-.617
75	909	-.315	.134	.173	-.924
75	910	-.166	.114	.237	-.651
75	911	-.159	.106	.296	-.660
75	912	-.256	.067	-.078	-.503
75	1101	.265	.241	1.002	-.675
75	1102	-.018	.199	.748	-.565
75	1103	.113	.237	.958	-.667
75	1104	.224	.160	.866	-.251
75	1105	.166	.129	.886	-.156
75	1106	-.071	.129	.789	-.649
75	1107	.141	.123	.739	-.226
75	1108	.162	.123	.925	-.270
75	1109	.233	.160	1.060	-.214
75	1110	-.212	.086	.024	-.823
75	1111	.085	.173	.709	-.492
75	1112	-.190	.077	.038	-.709
75	1113	.286	.246	1.044	-.689
75	1114	.195	.150	.782	-.207
75	1115	-.198	.080	.027	-.940
75	1116	.285	.249	1.075	-.650
75	1117	.188	.136	.708	-.174
75	1118	.167	.183	.768	-.556
75	1119	.239	.147	.767	-.374
75	1120	.205	.127	.660	-.115
75	1121	.043	.109	.498	-.360
75	1122	.164	.130	.750	-.176
75	1123	.116	.101	.519	-.235
75	1124	.227	.244	1.219	-.737
75	1125	.139	.188	.849	-.499
75	1126	.168	.203	.893	-.465
75	1127	.250	.162	.805	-.309
75	1128	.198	.136	.720	-.251
75	1129	.205	.130	.759	-.193
75	1130	.196	.122	.714	-.155
75	1131	.029	.105	.672	-.270
75	1132	.198	.134	.827	-.181
75	1133	.146	.117	.651	-.186
75	1134	.159	.120	.680	-.162
75	1135	.141	.111	.756	-.189
75	1136	.185	.139	.847	-.192
75	1137	-.184	.072	.041	-.793
75	1138	-.200	.082	.024	-1.098
75	1139	.255	.238	1.042	-.766
75	1140	.233	.192	1.057	-.506
75	1141	.286	.168	1.116	-.240
75	1142	.268	.157	.992	-.128
75	1143	.129	.138	.763	-.250
75	1144	.233	.147	.858	-.163
75	1145	.179	.139	.739	-.300
75	1146	.222	.250	.941	-.770
75	1147	.235	.242	.942	-.844
75	1148	.169	.182	.938	-.448
75	1149	.165	.201	1.039	-.555
75	1150	.176	.136	.754	-.248
75	1151	-.191	.068	.007	-.556
75	1152	-.191	.070	.005	-.590
75	1153	-.204	.074	-.014	-.757
75	1154	.207	.254	.987	-.786
75	1155	.220	.245	.964	-.847
75	1156	.164	.185	.819	-.558
75	1157	.152	.185	.897	-.617
75	1158	.147	.122	.754	-.165
75	1159	-.193	.080	.043	-.782
75	1160	-.193	.082	.016	-.765
75	1161	.176	.228	1.029	-.836
75	1162	.206	.220	.999	-.844
75	1163	.142	.167	.871	-.520
75	1164	.166	.172	.926	-.551
75	1165	.193	.146	.803	-.432
75	1166	.171	.114	.641	-.221
75	1167	.042	.093	.639	-.227
75	1168	.118	.095	.567	-.110
75	1169	.092	.091	.443	-.206
75	1170	.131	.116	.643	-.181
75	1171	-.208	.078	.007	-.685
75	1172	-.208	.078	.009	-.695
75	1173	-.118	.148	.748	-.387
75	1174	-.209	.082	-.001	-.673
75	1175	.143	.202	.859	-.716
75	1176	.161	.192	.856	-.716
75	1177	.115	.145	.856	-.387
75	1178	.122	.149	.936	-.410
75	1179	.105	.106	.661	-.279
75	1180	-.207	.077	-.014	-.611
75	1181	-.238	.087	.010	-.817
75	1182	.131	.180	.698	-.620
75	1183	.138	.170	.687	-.658
75	1184	.104	.129	.620	-.434
75	1185	.093	.147	.727	-.601
75	1186	.081	.099	.516	-.160
75	1187	-.234	.098	.012	-1.212
75	1188	-.234	.100	.005	-1.302
75	1189	.102	.158	.719	-.745
75	1190	.126	.153	.812	-.618
75	1191	.084	.117	.732	-.463
75	1192	.103	.119	.683	-.383
75	1193	.105	.100	.751	-.278
75	1194	.100	.083	.590	-.151
75	1195	.010	.070	.453	-.253

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
75	1196	.058	.070	.445	-.117
75	1197	.032	.067	.315	-.192
75	1198	.061	.086	.643	-.184
75	1199	-.260	.110	-.014	-.959
75	1200	.076	.142	.751	-.821
75	1201	.065	.136	.611	-.791
75	1202	.052	.101	.604	-.454
75	1203	.048	.103	.599	-.484
75	1204	.034	.077	.464	-.278
75	1205	-.280	.119	-.007	-1.000
75	1206	-.276	.122	.149	-1.029
75	1207	.063	.114	.503	-.806
75	1208	.075	.103	.478	-.691
75	1209	.035	.084	.561	-.435
75	1210	.046	.084	.560	-.456
75	1211	.012	.071	.336	-.219
75	1212	-.287	.119	.016	-.910
75	1213	-.285	.138	-.013	-1.397
75	1214	.016	.073	.327	-.346
75	1215	-.291	.147	-.009	-1.240
75	1216	.039	.100	.502	-.521
75	1217	.053	.088	.373	-.432
75	1218	.027	.067	.342	-.368
75	1219	.034	.068	.336	-.276
75	1220	.045	.066	.315	-.239
75	1221	.053	.067	.381	-.349
75	1222	.046	.056	.358	-.284
75	1223	-.018	.060	.299	-.327
75	1224	.008	.052	.253	-.213
75	1225	-.020	.050	.195	-.357
75	1226	-.008	.051	.201	-.345
75	1227	-.009	.061	.244	-.407
75	1228	-.011	.066	.268	-.382
75	1229	-.316	.156	.124	-1.172
75	1230	.040	.075	.424	-.481
75	1231	.043	.072	.435	-.529
75	1232	.024	.062	.373	-.342
75	1233	.028	.060	.324	-.398
75	1234	-.014	.060	.264	-.314
75	1235	-.316	.168	-.041	-1.294
75	1236	-.321	.173	.045	-1.330
75	1237	.039	.063	.302	-.274
75	1238	.048	.062	.337	-.319
75	1239	.024	.052	.307	-.254
75	1240	.026	.053	.306	-.272
75	1241	-.330	.153	.061	-1.065
75	1242	-.331	.156	.121	-1.170
75	1243	.031	.056	.316	-.276
75	1244	.035	.058	.315	-.251
75	1245	.039	.050	.317	-.198
75	1246	.052	.052	.340	-.143
75	1247	.050	.049	.314	-.120
75	1248	.041	.050	.279	-.201
75	1249	-.012	.046	.217	-.171
75	1250	-.001	.041	.177	-.143
75	1251	-.019	.043	.168	-.203
75	1252	-.022	.051	.203	-.260
75	1253	-.333	.162	.056	-1.162
75	1254	.027	.052	.271	-.173
75	1255	-.289	.154	.131	-1.368
75	1256	-.019	.044	.162	-.186
75	1257	.012	.037	.136	-.130
75	1258	-.001	.036	.128	-.136
75	1259	-.004	.038	.166	-.121
75	1260	-.001	.037	.167	-.236
75	1261	.002	.043	.173	-.188
75	1262	.011	.043	.231	-.143
75	1263	.019	.049	.309	-.133
75	1264	-.017	.047	.251	-.225
75	1265	-.059	.038	.081	-.203
75	1266	.023	.040	.183	-.107
75	1267	.010	.040	.192	-.133
75	1901	-.196	.124	.288	-.827
75	1902	-.062	.097	.338	-.466
75	1903	-.032	.074	.256	-.382
75	1904	.100	.112	.659	-.264
75	1905	.089	.084	.419	-.136
75	1906	-.032	.070	.253	-.257
75	1907	-.034	.090	.303	-.346
75	1908	-.212	.123	.185	-.711
75	1909	-.023	.072	.250	-.390
75	1910	-.076	.095	.264	-.472
75	1911	-.004	.077	.246	-.285
75	1912	.042	.041	.166	-.090
75	2301	-.168	.076	.087	-.503
75	2302	-.060	.061	.125	-.338
75	2303	-.167	.061	.016	-.434
75	2304	-.149	.057	.032	-.421
75	2305	-.165	.060	.036	-.381
75	2306	-.182	.065	-.009	-.565
75	2307	-.143	.066	.032	-.692
75	2308	-.125	.056	.081	-.395
75	2309	-.156	.060	.020	-.390
75	2310	-.145	.068	.033	-.496
75	2311	-.165	.066	.023	-.486
75	2312	-.164	.072	.073	-.483
75	2313	-.146	.061	.067	-.389
75	2314	-.175	.063	-.009	-.728
75	2315	-.155	.060	.067	-.461
75	2316	-.151	.061	.058	-.466
75	2317	-.156	.055	.024	-.424
75	2318	-.177	.057	-.009	-.414
75	2319	-.154	.055	-.002	-.374
75	2320	-.146	.055	.004	-.376
75	2321	-.162	.055	.008	-.390
75	2322	-.175	.054	.005	-.395
75	2323	-.154	.053	.016	-.379
75	2324	-.141	.051	.020	-.365
75	2325	-.164	.053	.001	-.397
75	2326	-.176	.057	.012	-.383
75	2327	-.157	.058	.028	-.397
75	2328	-.150	.058	.034	-.372
75	2329	-.154	.055	.013	-.348
75	2330	-.176	.053	-.016	-.423
75	2331	-.156	.052	.000	-.402
75	2332	-.138	.050	.023	-.348
75	2333	-.162	.052	.004	-.418
75	2334	-.179	.052	-.009	-.421
75	2335	-.150	.050	.012	-.413
75	2336	-.145	.051	.018	-.388
75	2337	-.158	.051	-.008	-.422
75	2338	-.154	.060	.017	-.457
75	2339	-.158	.062	.006	-.457
75	2340	-.146	.052	-.001	-.348
75	2341	-.163	.058	-.001	-.438
75	2342	-.181	.068	.000	-.617
75	2343	-.166	.068	.039	-.536
75	2344	-.161	.071	.074	-.682
75	2345	-.164	.063	.040	-.480
75	2346	-.164	.068	.061	-.579
75	2347	-.180	.071	.012	-.737
75	2348	-.152	.061	.037	-.656
75	2349	-.192	.074	.100	-.800
75	2350	-.174	.072	.041	-.659
75	2351	-.197	.068	.005	-.644
75	2352	-.183	.066	.023	-.664
75	2353	-.171	.066	.014	-.633
75	2354	-.191	.062	.020	-.466
75	2355	-.189	.063	.010	-.490
75	2356	-.172	.062	.048	-.468
75	2357	-.171	.061	-.014	-.443
75	2358	-.190	.072	-.015	-.691
75	2359	-.197	.064	.005	-.538
75	2360	-.191	.068	.007	-.541
75	2361	-.182	.073	.088	-.576
75	2362	-.191	.083	.030	-.650
75	2363	-.203	.074	.012	-.620
75	2364	-.208	.087	.067	-.808
75	2365	-.203	.089	.065	-.883
75	2366	-.210	.083	.045	-.790

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
75	2367	-.212	.098	.056	-.984
75	2368	-.216	.083	.035	-.635
75	2369	-.204	.082	.020	-.653
75	2370	-.232	.085	.001	-.724
75	2371	-.261	.100	.029	-.859
75	2372	-.231	.092	.094	-.820
75	2373	-.205	.083	.041	-.738
75	2374	-.226	.082	.015	-.654
75	2375	-.209	.082	.003	-.790
75	2376	-.228	.089	-.011	-.817
75	2377	-.224	.106	.045	-.776
75	2378	-.266	.116	.006	-1.181
75	2379	-.237	.102	.049	-.804
75	2380	-.236	.114	.013	-1.014
75	2381	-.266	.130	.006	-1.413
75	2382	-.240	.115	-.000	-1.083
75	2383	-.275	.129	.001	-1.121
75	2384	-.272	.129	.029	-1.206
75	2385	-.248	.118	.021	-1.011
75	2386	-.243	.121	-.013	-.911
75	2387	-.268	.137	.161	-1.291
75	2388	-.270	.147	.161	-1.569
75	2389	-.260	.131	.056	-.920
75	2390	-.244	.129	.135	-.924
75	2391	-.248	.125	.019	-.794
75	2392	-.191	.109	.132	-.704
75	2393	-.169	.104	.112	-.678
75	2394	-.165	.105	.310	-.631
75	2395	-.125	.080	.099	-.526
75	2396	-.181	.111	.212	-.706
75	2397	-.183	.110	.085	-.760
75	2398	-.166	.113	.099	-.792
75	2399	-.307	.159	.021	-1.353
75	2400	-.307	.162	.022	-1.566
75	2401	-.279	.153	-.001	-1.265
75	2402	-.316	.175	-.012	-1.302
75	2403	-.331	.172	-.029	-1.608
75	2404	-.298	.174	-.024	-2.071
75	2405	-.324	.167	.016	-1.390
75	2406	-.311	.183	-.008	-1.532
75	2407	-.299	.168	-.031	-1.640
75	2408	-.191	.123	.216	-.930
75	2409	-.114	.087	.179	-.543
75	2410	-.100	.078	.149	-.542
75	2411	-.086	.070	.198	-.610
75	2412	-.069	.069	.233	-.406
75	2413	-.049	.059	.212	-.541
75	2414	-.071	.088	.171	-.604
75	2415	-.250	.121	.054	-.842
75	2416	-.073	.065	.101	-.814
75	2417	-.069	.054	.134	-.383
75	2418	-.051	.045	.091	-.351
75	3101	-.151	.069	.046	-.530
75	3102	-.145	.068	.041	-.516
75	3103	-.132	.062	.031	-.405
75	3104	-.140	.072	.055	-.566
75	3105	-.165	.068	.021	-.473
75	3106	-.160	.065	-.005	-.442
75	3107	-.154	.066	.034	-.472
75	3108	-.157	.066	.014	-.457
75	3109	-.164	.068	.039	-.410
75	3110	-.169	.075	.048	-.569
75	3111	-.153	.069	.097	-.516
75	3112	-.163	.077	.074	-.582
75	3113	-.154	.065	.016	-.490
75	3114	-.148	.068	.053	-.576
75	3115	-.158	.075	.100	-.767
75	3116	-.144	.064	.034	-.460
75	3117	-.148	.064	.051	-.525
75	3118	-.160	.068	.029	-.476
75	3119	-.151	.062	.011	-.420
75	3120	-.146	.061	.017	-.395
75	3121	-.173	.066	-.009	-.468
75	3122	-.158	.062	-.002	-.418
75	3123	-.149	.062	.016	-.442
75	3124	-.153	.070	.012	-.628
75	3125	-.170	.063	-.009	-.460
75	3126	-.157	.059	.005	-.425
75	3127	-.152	.056	.004	-.422
75	3128	-.152	.057	-.000	-.428
75	3129	-.158	.058	.021	-.500
75	3130	-.150	.058	.024	-.488
75	3131	-.157	.062	.026	-.624
75	3132	-.141	.057	.036	-.527
75	3133	-.165	.065	.046	-.463
75	3134	-.156	.063	.046	-.425
75	3135	-.149	.065	.051	-.494
75	3136	-.143	.065	.055	-.501
75	3137	-.167	.072	.043	-.590
75	3138	-.148	.069	.094	-.508
75	3139	-.165	.066	.022	-.594
75	3140	-.155	.060	.004	-.445
75	3141	-.156	.053	-.007	-.351
75	3142	-.151	.053	-.011	-.336
75	3143	-.164	.058	-.001	-.422
75	3144	-.153	.056	.013	-.385
75	3145	-.142	.056	.086	-.383
75	3146	-.154	.061	.024	-.525
75	3147	-.158	.060	.022	-.453
75	3148	-.160	.059	-.021	-.476
75	3149	-.160	.060	.022	-.472
75	3150	-.141	.062	.059	-.525
75	3151	-.159	.069	.079	-.841
75	3152	-.152	.065	.075	-.712
75	3153	-.162	.069	.104	-.590
75	3154	-.164	.063	-.000	-.435
75	3155	-.167	.063	.002	-.429
75	3156	-.169	.061	-.023	-.432
75	3157	-.169	.063	-.005	-.460
75	3158	-.150	.061	.032	-.483
75	3159	-.165	.068	.045	-.662
75	3160	-.160	.064	.046	-.594
75	3161	-.180	.063	.072	-.520
75	3162	-.172	.063	.081	-.481
75	3163	-.180	.059	.045	-.449
75	3164	-.171	.057	.039	-.412
75	3165	-.174	.060	.059	-.438
75	3166	-.170	.063	-.011	-.522
75	3167	-.185	.069	-.012	-.607
75	3168	-.172	.065	.004	-.634
75	3169	-.173	.063	.018	-.542
75	3170	-.166	.063	.028	-.512
75	3171	-.180	.069	.011	-.583
75	3172	-.176	.065	-.005	-.570
75	3173	-.191	.064	.052	-.595
75	3174	-.184	.077	.041	-.691
75	3175	-.191	.069	-.003	-.535
75	3176	-.188	.068	-.007	-.490
75	3177	-.187	.067	.018	-.451
75	3178	-.180	.067	.035	-.452
75	3179	-.183	.071	.029	-.533
75	3180	-.189	.075	.015	-.652
75	3181	-.187	.071	.018	-.524
75	3182	-.189	.068	.015	-.509
75	3183	-.194	.068	.002	-.515
75	3184	-.197	.069	-.012	-.499
75	3185	-.203	.068	-.003	-.510
75	3186	-.205	.075	.011	-.847
75	3187	-.217	.079	.018	-.882
75	3188	-.213	.076	-.007	-.859
75	3189	-.198	.076	-.019	-.652
75	3190	-.194	.076	.015	-.584
75	3191	-.201	.075	.115	-.555
75	3192	-.196	.073	-.016	-.545
75	3193	-.214	.076	-.030	-.563
75	3194	-.229	.084	-.022	-.667
75	3195	-.253	.094	-.016	-.866
75	3196	-.237	.086	-.021	-.652
75	3197	-.227	.083	-.016	-.709
75	3198	-.220	.084	.043	-.713

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
75	3199	-.235	.085	-.012	-.666
75	3200	-.196	.080	.006	-.574
75	3201	-.195	.077	.020	-.549
75	3202	-.190	.075	.008	-.562
75	3203	-.191	.073	-.014	-.549
75	3204	-.249	.094	-.034	-.732
75	3205	-.269	.094	.002	-.679
75	3206	-.261	.092	.008	-.678
75	3207	-.188	.076	.033	-.535
75	3208	-.191	.080	.050	-.550
75	3209	-.176	.074	.097	-.520
75	3210	-.168	.072	.094	-.492
75	3211	-.267	.109	-.046	-1.346
75	3212	-.278	.111	-.054	-1.059
75	3213	-.283	.107	-.033	-.889
75	3214	-.113	.065	.235	-.397
75	3215	-.287	.116	-.048	-1.057
75	3216	-.183	.105	.051	-.797
75	3217	-.178	.103	.064	-.755
75	3218	-.136	.079	.131	-.522
75	3219	-.145	.080	.073	-.566
75	3220	-.157	.077	.021	-.552
75	3221	-.160	.081	.052	-.504
75	3222	-.223	.095	.031	-.733
75	3223	-.245	.103	.142	-.941
75	3224	-.274	.115	-.051	-1.382
75	3225	-.274	.124	-.058	-1.419
75	3226	-.275	.117	-.064	-1.133
75	3227	-.271	.116	-.057	-1.091
75	3228	-.280	.119	-.054	-1.403
75	3229	-.281	.116	-.040	-1.243
75	3230	-.168	.126	.089	-1.014
75	3231	-.165	.134	.181	-1.044
75	3232	-.094	.074	.154	-.407
75	3233	-.075	.068	.179	-.391
75	3234	-.285	.138	-.032	-1.054
75	3235	-.299	.138	-.032	-.991
75	3236	-.312	.139	-.040	-.973
75	3237	-.114	.124	.249	-.849
75	3238	-.116	.123	.247	-.863
75	3239	-.022	.064	.286	-.269
75	3240	-.032	.059	.276	-.257
75	3241	-.286	.129	-.106	-1.337
75	3242	-.303	.131	-.034	-1.314
75	3243	-.101	.111	.137	-.799
75	3244	-.119	.121	.122	-.795
75	3245	-.018	.059	.340	-.239
75	3246	-.045	.050	.266	-.280
75	3247	-.038	.039	.139	-.233
75	3248	-.112	.087	.182	-.564
75	3249	-.057	.066	.603	-.323
75	3250	-.058	.113	.554	-.503
75	3251	-.051	.078	.336	-.578
75	3252	-.253	.139	.058	-1.158
75	3253	-.217	.115	.052	-1.013
75	3254	-.076	.056	.082	-.375
75	3255	-.104	.074	.140	-.474
75	3256	.011	.055	.274	-.246
75	3257	-.077	.051	.092	-.352
75	3258	-.048	.041	.110	-.282
75	3259	-.035	.049	.176	-.272
75	3260	-.110	.087	.239	-.603
75	3261	-.009	.063	.418	-.305
75	3262	-.081	.072	.252	-.594
75	3263	-.017	.055	.322	-.422
75	3264	-.006	.062	.496	-.449
75	3265	.025	.044	.198	-.174
75	3266	-.004	.042	.244	-.155
75	3267	-.058	.037	.100	-.222
75	4301	-.244	.127	.271	-1.085
75	4302	.315	.165	1.065	-.108
75	4303	.180	.142	.964	-.214
75	4304	.138	.128	.876	-.189
75	4305	-.059	.164	.878	-.599
75	4306	.196	.158	.904	-.390
75	4307	.247	.173	.918	-.344
75	4308	.188	.247	.936	-.704
75	4309	.087	.227	.971	-.592
75	4310	.402	.232	1.181	-.622
75	4311	-.204	.089	.129	-.706
75	4312	-.194	.105	.049	-.829
75	4313	.223	.166	.871	-.308
75	4314	.378	.203	1.192	-.395
75	4315	-.194	.077	.039	-.680
75	4316	-.168	.074	.014	-.642
75	4317	.204	.135	.769	-.171
75	4318	.179	.129	.634	-.194
75	4319	.147	.105	.628	-.149
75	4320	.145	.098	.599	-.131
75	4321	.243	.150	.862	-.146
75	4322	.160	.115	.876	-.146
75	4323	.148	.108	.885	-.151
75	4324	.231	.142	.998	-.136
75	4325	.184	.131	.878	-.157
75	4326	.139	.144	.933	-.249
75	4327	.059	.119	.642	-.339
75	4328	.092	.114	.587	-.241
75	4329	.282	.157	1.011	-.048
75	4330	.244	.135	.866	-.122
75	4331	.235	.132	.857	-.093
75	4332	.338	.167	1.081	-.088
75	4333	.267	.141	.848	-.097
75	4334	.218	.129	.854	-.112
75	4335	.283	.156	.943	-.172
75	4336	.266	.144	.885	-.143
75	4337	.274	.180	1.108	-.385
75	4338	.284	.222	1.338	-.368
75	4339	.272	.213	1.178	-.250
75	4340	.216	.171	.955	-.313
75	4341	.341	.220	1.094	-.805
75	4342	.325	.211	1.120	-.435
75	4343	-.196	.082	.043	-.706
75	4344	-.172	.080	.019	-.699
75	4345	.174	.124	.897	-.211
75	4346	-.234	.098	.119	-.858
75	4347	-.192	.074	-.010	-.685
75	4348	.163	.117	.721	-.150
75	4349	-.211	.081	.012	-.901
75	4350	.145	.120	.760	-.193
75	4351	.081	.089	.550	-.172
75	4352	.106	.091	.579	-.137
75	4353	.054	.099	.885	-.317
75	4354	.161	.109	.871	-.125
75	4355	.200	.132	.957	-.124
75	4356	.161	.143	.841	-.237
75	4357	.208	.174	.878	-.311
75	4358	.227	.179	1.022	-.436
75	4359	.110	.113	.627	-.170
75	4360	.220	.170	.997	-.557
75	4361	-.212	.092	.095	-.740
75	4362	-.246	.108	-.014	-.914
75	4363	.096	.112	.581	-.270
75	4364	-.255	.107	.104	-.924
75	4365	-.244	.104	.021	-.890
75	4366	.088	.103	.590	-.255
75	4367	-.313	.132	.057	-1.001
75	4368	.063	.086	.461	-.205
75	4369	.057	.070	.403	-.222
75	4370	.062	.073	.446	-.202
75	4371	.014	.084	.579	-.294
75	4372	.111	.084	.737	-.114
75	4373	.142	.102	.675	-.165
75	4374	.106	.116	.651	-.418
75	4375	.117	.125	.682	-.324
75	4376	.138	.144	.899	-.411
75	4377	-.348	.142	-.030	-1.164
75	4378	-.309	.114	-.076	-1.056
75	4379	.048	.096	.505	-.283
75	4380	-.348	.149	.154	-1.253
75	4381	-.337	.139	-.033	-1.216

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
75	4382	-.038	.089	.574	-.317
75	4383	-.354	.152	.235	-1.233
75	4384	-.339	.142	-.017	-1.228
75	4385	.028	.079	.396	-.230
75	4386	.023	.077	.481	-.226
75	4387	.004	.064	.550	-.228
75	4388	.003	.060	.483	-.230
75	4389	.031	.062	.517	-.198
75	4390	.019	.065	.419	-.183
75	4391	.050	.069	.609	-.198
75	4392	.068	.074	.614	-.194
75	4393	.070	.079	.614	-.316
75	4394	.066	.082	.629	-.297
75	4395	.059	.087	.661	-.291
75	4396	.060	.080	.576	-.230
75	4397	.075	.083	.526	-.321
75	4398	.068	.082	.544	-.342
75	4399	-.349	.163	.101	-1.122
75	4400	-.361	.154	-.001	-1.126
75	4401	.014	.063	.366	-.242
75	4402	-.297	.151	.159	-1.001
75	4403	-.332	.141	.014	-.976
75	4404	.011	.058	.331	-.185
75	4405	-.226	.129	.148	-.980
75	4406	.015	.059	.315	-.165
75	4407	.009	.049	.282	-.156
75	4408	.022	.048	.273	-.128
75	4409	.015	.048	.280	-.117
75	4410	.035	.051	.355	-.108
75	4411	.032	.060	.581	-.219
75	4412	.040	.065	.689	-.221
75	4413	.029	.068	.376	-.242
75	4414	.044	.071	.752	-.251
75	4415	-.142	.099	.214	-.795
75	4416	-.025	.060	.372	-.230
75	4417	-.023	.071	.294	-.488
75	4418	.021	.045	.241	-.156
75	4419	.093	.069	.540	-.248
75	4420	.054	.057	.368	-.092
75	4421	.074	.058	.366	-.075
75	4422	.074	.060	.517	-.098
75	4423	.067	.054	.331	-.096
75	4424	.050	.054	.352	-.252
75	9901	.033	.044	.258	-.086
75	9902	.030	.043	.264	-.104
75	9903	.021	.043	.235	-.091
75	9904	.032	.040	.189	-.087
75	9905	.026	.039	.258	-.112
90	110	-.111	.074	.228	-.530
90	111	-.071	.243	.704	-.913
90	112	-.297	.095	-.030	-.885
90	130	-.281	.102	.051	-.768
90	140	.071	.139	.621	-.403
90	141	.328	.160	1.046	-.143
90	142	.306	.204	1.005	-.412
90	143	.453	.192	1.229	-.128
90	144	.240	.258	1.093	-.775
90	145	.432	.182	1.104	-.090
90	220	-.151	.064	.033	-.472
90	221	-.154	.062	.057	-.413
90	230	-.189	.070	.054	-.525
90	231	-.196	.077	.069	-.625
90	310	-.107	.136	.884	-.356
90	320	-.250	.121	.119	-.753
90	321	-.242	.116	.103	-.735
90	322	-.287	.149	.094	-.973
90	323	-.234	.116	.062	-.742
90	324	-.233	.129	.062	-.872
90	325	-.219	.116	.052	-.831
90	330	-.253	.142	.098	-1.034
90	331	-.212	.111	.101	-.832
90	332	-.213	.129	.139	-.973
90	410	.324	.168	.980	-.462
90	411	-.361	.121	.009	-.808
90	440	-.241	.148	.540	-.808
90	441	-.412	.184	-.044	-.094
90	901	-.243	.158	.332	-.828
90	902	-.240	.084	.042	-.684
90	903	-.380	.125	.059	-.990
90	904	-.336	.104	.003	-.794
90	905	-.345	.087	-.081	-.601
90	906	-.312	.100	.022	-.771
90	907	-.288	.090	.030	-.657
90	908	-.101	.143	.485	-.723
90	909	-.287	.110	.126	-.753
90	910	-.183	.113	.156	-.684
90	911	-.229	.101	.113	-.712
90	912	-.317	.078	-.097	-.573
90	1101	-.158	.285	.741	-1.156
90	1102	-.260	.118	.638	-.775
90	1103	-.254	.149	.536	-.787
90	1104	.088	.200	.688	-.746
90	1105	-.107	.101	.584	-.342
90	1106	-.163	.085	.409	-.599
90	1107	.085	.091	.531	-.214
90	1108	.128	.097	.599	-.140
90	1109	.228	.135	.847	-.429
90	1110	-.199	.072	.024	-.528
90	1111	-.187	.147	.398	-.778
90	1112	-.185	.069	.025	-.571
90	1113	-.109	.304	.826	-.963
90	1114	.156	.114	.713	-.152
90	1115	-.171	.059	.021	-.398
90	1116	-.135	.306	.879	-1.106
90	1117	.147	.111	.659	-.185
90	1118	-.111	.145	.615	-.775
90	1119	.046	.167	.571	-.689
90	1120	.087	.094	.631	-.450
90	1121	-.056	.071	.226	-.295
90	1122	.071	.084	.615	-.161
90	1123	.071	.068	.450	-.166
90	1124	-.193	.304	.833	-1.179
90	1125	-.115	.147	.411	-.698
90	1126	-.116	.145	.398	-.750
90	1127	.092	.180	.672	-.717
90	1128	.092	.135	.496	-.851
90	1129	.120	.125	.495	-.560
90	1130	.112	.101	.439	-.542
90	1131	-.072	.066	.274	-.389
90	1132	.107	.086	.468	-.243
90	1133	.092	.077	.455	-.222
90	1134	.097	.076	.460	-.200
90	1135	.090	.073	.436	-.159
90	1136	.130	.093	.555	-.163
90	1137	-.166	.059	-.004	-.454
90	1138	-.175	.061	.033	-.518
90	1139	-.176	.321	.851	-1.264
90	1140	-.047	.194	.558	-.934
90	1141	.164	.168	.776	-.883
90	1142	.171	.134	.705	-.408
90	1143	-.005	.081	.447	-.283
90	1144	.167	.107	.721	-.250
90	1145	.142	.110	.749	-.313
90	1146	-.221	.291	.820	-1.317
90	1147	-.195	.314	.946	-1.395
90	1148	-.098	.159	.452	-.747
90	1149	-.123	.162	.481	-.902
90	1150	.133	.104	.631	-.298
90	1151	-.174	.056	-.005	-.589
90	1152	-.171	.057	-.009	-.549
90	1153	-.171	.060	-.002	-.500
90	1154	-.221	.258	.749	-.976
90	1155	-.191	.283	.791	-1.041
90	1156	-.097	.147	.489	-.668
90	1157	-.104	.161	.379	-.952
90	1158	.118	.098	.606	-.227
90	1159	-.173	.055	.010	-.452
90	1160	-.170	.056	.023	-.464
90	1161	-.225	.260	.773	-1.194
90	1162	-.182	.284	.799	-1.188

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	1163	-.111	.159	.528	-.958
90	1164	-.090	.155	.552	-.981
90	1165	.041	.171	.761	-.684
90	1166	-.083	.104	.503	-.507
90	1167	-.052	.061	.216	-.373
90	1168	.064	.072	.419	-.234
90	1169	.047	.066	.307	-.366
90	1170	.087	.087	.496	-.369
90	1171	-.175	.063	-.012	-.494
90	1172	-.172	.063	-.000	-.468
90	1173	-.103	.132	.292	-.727
90	1174	-.175	.063	-.006	-.638
90	1175	-.210	.220	.449	-.986
90	1176	-.168	.239	.556	-.995
90	1177	-.115	.140	.307	-.715
90	1178	-.113	.143	.305	-.753
90	1179	.075	.085	.449	-.242
90	1180	-.180	.059	.018	-.443
90	1181	-.184	.065	.034	-.500
90	1182	-.144	.223	.516	-.986
90	1183	-.112	.242	.670	-1.043
90	1184	-.072	.134	.303	-.807
90	1185	-.115	.135	.477	-.758
90	1186	.071	.087	.445	-.231
90	1187	-.198	.067	-.017	-.501
90	1188	-.194	.068	-.016	-.515
90	1189	-.189	.225	.623	-1.165
90	1190	-.147	.246	.631	-1.174
90	1191	-.100	.133	.414	-.796
90	1192	-.079	.131	.531	-.765
90	1193	.014	.131	.515	-.631
90	1194	-.059	.084	.392	-.519
90	1195	-.058	.057	.145	-.442
90	1196	.035	.059	.452	-.329
90	1197	.023	.059	.335	-.232
90	1198	.056	.077	.509	-.252
90	1199	-.215	.075	-.029	-.604
90	1200	-.148	.206	.797	-1.291
90	1201	-.083	.224	.572	-.945
90	1202	-.068	.122	.369	-.597
90	1203	-.076	.122	.371	-.670
90	1204	.053	.079	.461	-.211
90	1205	-.216	.076	-.038	-.576
90	1206	-.213	.077	-.024	-.549
90	1207	-.093	.186	.475	-.965
90	1208	-.028	.184	.612	-.902
90	1209	-.062	.101	.288	-.598
90	1210	-.056	.100	.291	-.604
90	1211	.031	.074	.558	-.226
90	1212	-.225	.082	-.019	-.656
90	1213	-.244	.099	-.021	-.785
90	1214	-.053	.099	.620	-.613
90	1215	-.252	.109	-.037	-.952
90	1216	-.053	.173	.576	-.986
90	1217	-.005	.167	.701	-.989
90	1218	-.024	.097	.314	-.630
90	1219	-.014	.097	.337	-.586
90	1220	.014	.100	.432	-.588
90	1221	.054	.101	.487	-.552
90	1222	.059	.071	.365	-.302
90	1223	-.043	.053	.152	-.272
90	1224	-.017	.056	.276	-.184
90	1225	-.012	.054	.226	-.198
90	1226	.008	.058	.284	-.217
90	1227	.018	.073	.350	-.254
90	1228	.027	.082	.427	-.268
90	1229	-.282	.111	.025	-.854
90	1230	-.015	.149	.536	-.696
90	1231	.025	.144	.559	-.687
90	1232	-.016	.092	.367	-.509
90	1233	.001	.090	.411	-.608
90	1234	.009	.077	.392	-.329
90	1235	-.332	.147	-.052	-1.091
90	1236	-.351	.154	-.052	-1.075
90	1237	.030	.116	.500	-.724
90	1238	.052	.110	.539	-.723
90	1239	.015	.080	.337	-.669
90	1240	.019	.079	.325	-.708
90	1241	-.412	.177	-.005	-1.390
90	1242	-.432	.183	.001	-1.346
90	1243	.050	.096	.519	-.512
90	1244	.061	.096	.519	-.551
90	1245	.054	.077	.554	-.351
90	1246	.069	.080	.585	-.319
90	1247	.067	.067	.458	-.288
90	1248	.053	.059	.330	-.127
90	1249	-.016	.044	.226	-.277
90	1250	.004	.044	.192	-.229
90	1251	-.018	.044	.175	-.222
90	1252	-.021	.057	.430	-.286
90	1253	-.500	.180	.061	-1.339
90	1254	.060	.066	.402	-.236
90	1255	-.418	.171	-.042	-1.221
90	1256	-.012	.057	.273	-.365
90	1257	.039	.048	.269	-.140
90	1258	.011	.041	.165	-.170
90	1259	.015	.041	.216	-.126
90	1260	.008	.042	.214	-.137
90	1261	-.001	.042	.147	-.145
90	1262	.011	.039	.177	-.107
90	1263	.020	.045	.233	-.158
90	1264	-.009	.055	.318	-.201
90	1265	-.058	.037	.088	-.392
90	1266	.028	.046	.256	-.122
90	1267	-.009	.044	.137	-.228
90	1901	-.244	.099	.067	-.794
90	1902	-.158	.078	.264	-.532
90	1903	-.106	.065	.174	-.382
90	1904	-.007	.104	.447	-.308
90	1905	.012	.074	.348	-.241
90	1906	-.053	.069	.188	-.419
90	1907	.027	.093	.526	-.266
90	1908	-.182	.136	.350	-.653
90	1909	-.136	.077	.145	-.459
90	1910	-.197	.091	.117	-.576
90	1911	-.112	.090	.176	-.468
90	1912	-.043	.050	.091	-.186
90	2301	-.180	.069	-.004	-.522
90	2302	-.071	.056	.091	-.304
90	2303	-.169	.057	.010	-.369
90	2304	-.142	.053	.035	-.376
90	2305	-.146	.057	.070	-.512
90	2306	-.157	.056	.005	-.447
90	2307	-.118	.056	.057	-.439
90	2308	-.111	.058	.059	-.481
90	2309	-.145	.065	.034	-.453
90	2310	-.158	.082	.060	-.659
90	2311	-.145	.058	.024	-.451
90	2312	-.164	.059	.019	-.427
90	2313	-.150	.053	.012	-.361
90	2314	-.197	.083	.032	-.759
90	2315	-.147	.053	.021	-.350
90	2316	-.141	.053	.023	-.344
90	2317	-.147	.051	.018	-.338
90	2318	-.178	.058	-.014	-.385
90	2319	-.153	.057	.005	-.350
90	2320	-.146	.056	.011	-.332
90	2321	-.160	.057	.004	-.352
90	2322	-.174	.053	.023	-.397
90	2323	-.150	.053	.040	-.355
90	2324	-.137	.052	.052	-.313
90	2325	-.159	.053	.034	-.352
90	2326	-.167	.049	-.017	-.363
90	2327	-.144	.049	.007	-.372
90	2328	-.140	.049	.009	-.344
90	2329	-.146	.047	.037	-.319
90	2330	-.170	.051	-.019	-.358
90	2331	-.147	.051	-.002	-.332
90	2332	-.131	.049	.014	-.330
90	2333	-.151	.051	-.015	-.345

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	2334	-.170	.050	-.002	-.363
90	2335	-.140	.049	.021	-.336
90	2336	-.133	.049	.047	-.328
90	2337	-.150	.050	.025	-.401
90	2338	-.136	.049	.047	-.319
90	2339	-.139	.050	.028	-.342
90	2340	-.135	.051	.004	-.354
90	2341	-.194	.087	.039	-.689
90	2342	-.211	.084	-.024	-.660
90	2343	-.154	.057	.047	-.404
90	2344	-.150	.057	.057	-.429
90	2345	-.156	.054	.025	-.380
90	2346	-.147	.058	.044	-.734
90	2347	-.169	.055	.000	-.390
90	2348	-.149	.052	.014	-.364
90	2349	-.182	.058	-.001	-.413
90	2350	-.152	.053	.019	-.350
90	2351	-.185	.063	-.002	-.469
90	2352	-.169	.062	.012	-.453
90	2353	-.151	.053	.009	-.416
90	2354	-.180	.061	-.008	-.460
90	2355	-.197	.056	-.019	-.405
90	2356	-.182	.057	-.004	-.395
90	2357	-.161	.057	.033	-.399
90	2358	-.232	.094	-.003	-.710
90	2359	-.177	.057	.020	-.412
90	2360	-.236	.101	-.002	-.762
90	2361	-.158	.062	.050	-.450
90	2362	-.163	.064	.031	-.394
90	2363	-.176	.062	-.004	-.447
90	2364	-.175	.069	.029	-.577
90	2365	-.167	.070	.026	-.597
90	2366	-.176	.067	.001	-.517
90	2367	-.177	.072	.017	-.508
90	2368	-.190	.072	.019	-.568
90	2369	-.178	.072	.050	-.515
90	2370	-.207	.073	-.003	-.658
90	2371	-.240	.080	-.051	-.592
90	2372	-.209	.073	.021	-.517
90	2373	-.193	.072	.023	-.498
90	2374	-.223	.074	.011	-.524
90	2375	-.206	.073	.008	-.503
90	2376	-.249	.092	.017	-.676
90	2377	-.203	.080	.015	-.586
90	2378	-.229	.086	.006	-.583
90	2379	-.203	.077	.018	-.524
90	2380	-.221	.091	.021	-.738
90	2381	-.229	.096	.062	-.795
90	2382	-.209	.088	.101	-.747
90	2383	-.239	.099	.044	-.828
90	2384	-.233	.097	.034	-.766
90	2385	-.215	.090	.037	-.759
90	2386	-.257	.105	-.013	-.780
90	2387	-.259	.101	-.015	-.912
90	2388	-.264	.105	-.039	-.959
90	2389	-.258	.098	-.048	-.825
90	2390	-.248	.091	-.007	-.765
90	2391	-.210	.085	.077	-.636
90	2392	-.159	.083	.083	-.618
90	2393	-.147	.087	.109	-.593
90	2394	-.143	.086	.145	-.524
90	2395	-.157	.093	.072	-.503
90	2396	-.158	.088	.087	-.581
90	2397	-.170	.091	.086	-.586
90	2398	-.156	.098	.076	-.689
90	2399	-.302	.129	-.001	-1.147
90	2400	-.315	.136	-.023	-1.426
90	2401	-.275	.118	.013	-.947
90	2402	-.360	.153	-.039	-1.199
90	2403	-.383	.162	-.006	-1.385
90	2404	-.337	.147	-.018	-1.183
90	2405	-.416	.183	-.053	-1.452
90	2406	-.454	.224	-.070	-1.704
90	2407	-.326	.141	-.008	-1.125
90	2408	-.170	.096	.080	-.874
90	2409	-.118	.071	.095	-.489
90	2410	-.105	.067	.092	-.544
90	2411	-.088	.071	.184	-.438
90	2412	-.078	.081	.305	-.448
90	2413	-.085	.078	.280	-.528
90	2414	-.094	.100	.342	-.671
90	2415	-.286	.148	.001	-1.109
90	2416	-.102	.095	.147	-.801
90	2417	-.059	.050	.126	-.377
90	2418	-.054	.047	.103	-.365
90	3101	-.196	.092	.027	-.643
90	3102	-.189	.085	.041	-.650
90	3103	-.169	.071	.046	-.607
90	3104	-.176	.082	.027	-.763
90	3105	-.195	.075	.047	-.510
90	3106	-.201	.074	.039	-.524
90	3107	-.186	.074	.031	-.469
90	3108	-.180	.070	.046	-.551
90	3109	-.184	.076	.047	-.726
90	3110	-.204	.087	.044	-.636
90	3111	-.199	.086	.022	-.654
90	3112	-.201	.091	.069	-.643
90	3113	-.183	.085	.058	-.569
90	3114	-.158	.070	.078	-.549
90	3115	-.177	.079	.072	-.581
90	3116	-.176	.086	.034	-.595
90	3117	-.176	.078	.044	-.693
90	3118	-.207	.088	.032	-.709
90	3119	-.191	.077	.041	-.574
90	3120	-.185	.073	.050	-.577
90	3121	-.200	.078	.023	-.693
90	3122	-.180	.072	.039	-.599
90	3123	-.170	.074	.027	-.649
90	3124	-.195	.086	.021	-.657
90	3125	-.219	.087	.008	-.657
90	3126	-.204	.081	.037	-.565
90	3127	-.193	.073	.018	-.621
90	3128	-.195	.075	.014	-.691
90	3129	-.184	.066	.004	-.614
90	3130	-.175	.066	.016	-.611
90	3131	-.185	.075	.018	-.811
90	3132	-.169	.067	.030	-.719
90	3133	-.188	.074	.032	-.648
90	3134	-.179	.071	.018	-.579
90	3135	-.170	.070	.034	-.515
90	3136	-.163	.070	.050	-.457
90	3137	-.187	.087	.163	-.779
90	3138	-.190	.084	.046	-.543
90	3139	-.191	.088	.024	-.769
90	3140	-.179	.076	.048	-.621
90	3141	-.176	.065	.079	-.443
90	3142	-.173	.066	.024	-.482
90	3143	-.188	.073	.029	-.613
90	3144	-.172	.069	.039	-.451
90	3145	-.165	.073	.063	-.500
90	3146	-.214	.092	.004	-.847
90	3147	-.212	.090	.024	-.812
90	3148	-.210	.083	-.001	-.850
90	3149	-.202	.078	.011	-.550
90	3150	-.166	.072	.041	-.591
90	3151	-.192	.083	.038	-.654
90	3152	-.182	.077	.041	-.570
90	3153	-.208	.092	.038	-.774
90	3154	-.223	.096	-.000	-.882
90	3155	-.221	.094	-.006	-.837
90	3156	-.219	.088	-.010	-.810
90	3157	-.233	.086	.029	-.597
90	3158	-.201	.082	.089	-.565
90	3159	-.226	.096	.047	-.751
90	3160	-.217	.088	.044	-.621
90	3161	-.241	.092	.011	-.736
90	3162	-.226	.089	.026	-.729
90	3163	-.239	.085	-.016	-.749
90	3164	-.226	.079	-.014	-.668
90	3165	-.220	.080	.018	-.851

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	3166	-.218	.084	.037	-.812
90	3167	-.236	.091	.024	-.814
90	3168	-.218	.084	.021	-.661
90	3169	-.208	.079	.009	-.645
90	3170	-.200	.080	.026	-.611
90	3171	-.227	.090	.022	-.742
90	3172	-.217	.083	.037	-.657
90	3173	-.233	.087	.011	-.922
90	3174	-.234	.098	.004	-.982
90	3175	-.240	.095	.108	-.746
90	3176	-.230	.093	.041	-.719
90	3177	-.256	.093	-.012	-.801
90	3178	-.251	.094	-.005	-.838
90	3179	-.243	.090	.024	-.712
90	3180	-.259	.100	.033	-.836
90	3181	-.260	.096	.038	-.956
90	3182	-.262	.109	.056	-.860
90	3183	-.264	.105	.006	-.857
90	3184	-.275	.104	.013	-.818
90	3185	-.264	.101	-.014	-.772
90	3186	-.265	.103	.041	-1.013
90	3187	-.290	.113	.063	-1.097
90	3188	-.282	.108	.061	-1.058
90	3189	-.245	.096	-.007	-.783
90	3190	-.236	.094	.019	-.729
90	3191	-.252	.097	.112	-.681
90	3192	-.245	.094	.048	-.657
90	3193	-.280	.103	-.003	-.758
90	3194	-.289	.109	.011	-.845
90	3195	-.301	.108	-.010	-.875
90	3196	-.289	.104	.017	-.799
90	3197	-.299	.113	.020	-.815
90	3198	-.292	.112	.015	-.814
90	3199	-.316	.120	.040	-.968
90	3200	-.227	.100	.035	-.692
90	3201	-.227	.095	.036	-.649
90	3202	-.241	.105	.056	-.705
90	3203	-.238	.101	.054	-.654
90	3204	-.302	.114	-.016	-.843
90	3205	-.350	.124	-.034	-1.010
90	3206	-.340	.121	-.053	-1.020
90	3207	-.207	.089	.067	-.629
90	3208	-.207	.090	.052	-.628
90	3209	-.190	.095	.208	-.622
90	3210	-.181	.090	.186	-.565
90	3211	-.337	.130	-.021	-1.858
90	3212	-.361	.136	-.054	-1.326
90	3213	-.341	.136	-.043	-1.162
90	3214	-.129	.092	.393	-.515
90	3215	-.347	.147	-.031	-1.219
90	3216	-.169	.097	.084	-.643
90	3217	-.190	.101	.053	-.750
90	3218	-.122	.083	.210	-.374
90	3219	-.136	.080	.196	-.421
90	3220	-.152	.072	.082	-.597
90	3221	-.160	.090	.124	-.492
90	3222	-.255	.117	.151	-.739
90	3223	-.284	.132	.252	-.927
90	3224	-.325	.145	.075	-1.255
90	3225	-.348	.162	-.027	-1.579
90	3226	-.348	.150	-.042	-1.311
90	3227	-.347	.150	-.042	-1.589
90	3228	-.355	.149	-.037	-1.554
90	3229	-.366	.156	-.043	-1.110
90	3230	-.165	.118	.128	-1.000
90	3231	-.168	.121	.103	-.927
90	3232	-.054	.083	.390	-.374
90	3233	-.053	.082	.305	-.389
90	3234	-.344	.162	-.017	-1.579
90	3235	-.378	.162	-.009	-1.576
90	3236	-.397	.165	-.046	-1.565
90	3237	-.176	.144	.124	-.904
90	3238	-.182	.145	.128	-.923
90	3239	-.010	.078	.448	-.328
90	3240	-.021	.070	.372	-.258
90	3241	-.321	.156	.138	-1.286
90	3242	-.346	.156	-.063	-1.225
90	3243	-.156	.140	.239	-1.121
90	3244	-.171	.142	.160	-.913
90	3245	.007	.067	.389	-.213
90	3246	-.035	.048	.187	-.256
90	3247	-.029	.046	.216	-.208
90	3248	-.145	.086	.176	-.541
90	3249	-.031	.067	.373	-.286
90	3250	.040	.143	.757	-.621
90	3251	-.019	.096	.533	-.461
90	3252	-.246	.155	.162	-1.136
90	3253	-.224	.123	.122	-.860
90	3254	-.085	.052	.076	-.306
90	3255	-.108	.100	.247	-.854
90	3256	.036	.072	.436	-.230
90	3257	-.078	.053	.092	-.386
90	3258	-.039	.045	.144	-.267
90	3259	.007	.061	.277	-.250
90	3260	-.139	.095	.461	-.591
90	3261	.006	.064	.412	-.222
90	3262	-.100	.078	.210	-.485
90	3263	.025	.065	.314	-.336
90	3264	.029	.073	.319	-.267
90	3265	.068	.064	.450	-.152
90	3266	.023	.059	.271	-.174
90	3267	-.055	.041	.139	-.261
90	4301	-.308	.176	.654	-.877
90	4302	.416	.141	1.012	-.049
90	4303	.246	.143	1.003	-.149
90	4304	.209	.137	1.040	-.160
90	4305	.120	.170	.945	-.444
90	4306	.276	.152	1.148	-.143
90	4307	.306	.160	1.023	-.231
90	4308	.385	.167	1.122	-.247
90	4309	.423	.183	1.180	-.381
90	4310	.423	.191	1.105	-.387
90	4311	-.264	.104	.109	-.840
90	4312	-.301	.134	.119	-1.200
90	4313	.345	.153	1.112	-.221
90	4314	.406	.221	1.093	-.627
90	4315	-.267	.114	.077	-.893
90	4316	-.237	.110	.030	-.850
90	4317	.308	.145	.957	-.123
90	4318	.296	.140	.835	-.093
90	4319	.274	.123	.695	-.052
90	4320	.272	.119	.698	-.025
90	4321	.382	.160	.976	-.031
90	4322	.283	.134	.750	-.068
90	4323	.270	.128	.717	-.052
90	4324	.375	.158	.935	-.015
90	4325	.336	.149	.857	-.036
90	4326	.358	.156	1.095	-.085
90	4327	.281	.143	.877	-.146
90	4328	.302	.136	.870	-.112
90	4329	.424	.157	1.081	-.042
90	4330	.394	.153	1.038	-.008
90	4331	.391	.149	1.020	.002
90	4332	.457	.170	1.262	.022
90	4333	.418	.159	1.149	.015
90	4334	.421	.167	1.055	.030
90	4335	.449	.172	1.134	.036
90	4336	.449	.167	1.087	.040
90	4337	.475	.176	1.102	.017
90	4338	.444	.202	1.100	-.176
90	4339	.446	.200	1.097	-.144
90	4340	.480	.181	1.212	.015
90	4341	.375	.237	1.068	-.451
90	4342	.374	.225	1.128	-.719
90	4343	-.262	.117	.176	-1.111
90	4344	-.235	.113	.022	-1.065
90	4345	-.283	.135	.828	-.082
90	4346	-.316	.131	.302	-1.238
90	4347	-.262	.100	-.015	-.769
90	4348	.275	.123	.808	-.075

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	4349	-.290	.111	-.007	-.881
90	4350	.252	.153	.845	-.179
90	4351	.221	.118	.732	-.103
90	4352	.265	.126	.805	-.073
90	4353	.269	.136	.823	-.087
90	4354	.369	.155	1.044	.025
90	4355	.389	.167	1.048	-.045
90	4356	.411	.173	1.062	-.090
90	4357	.408	.182	1.130	-.052
90	4358	.317	.218	1.061	-.767
90	4359	.230	.128	.807	-.288
90	4360	.284	.216	1.062	-.541
90	4361	-.300	.124	-.132	-1.212
90	4362	-.350	.137	-.025	-1.082
90	4363	.199	.123	.872	-.160
90	4364	-.322	.123	.087	-1.162
90	4365	-.302	.118	-.010	-1.090
90	4366	.181	.119	.806	-.240
90	4367	-.421	.159	.107	-1.124
90	4368	.159	.116	.630	-.231
90	4369	.151	.100	.581	-.167
90	4370	.175	.107	.651	-.121
90	4371	.156	.120	.719	-.150
90	4372	.255	.126	.780	-.061
90	4373	.297	.138	.865	-.027
90	4374	.305	.145	.947	-.051
90	4375	.284	.170	1.003	-.145
90	4376	.216	.171	.933	-.524
90	4377	-.456	.195	.302	-1.711
90	4378	-.397	.145	-.034	-1.208
90	4379	.115	.107	.577	-.208
90	4380	-.443	.205	.512	-1.849
90	4381	-.429	.166	-.026	-1.445
90	4382	.083	.100	.514	-.225
90	4383	-.464	.204	.216	-1.432
90	4384	-.483	.188	.158	-1.421
90	4385	.080	.097	.539	-.190
90	4386	.072	.092	.591	-.209
90	4387	.063	.079	.430	-.152
90	4388	.046	.076	.378	-.209
90	4389	.081	.081	.454	-.113
90	4390	.078	.088	.477	-.170
90	4391	.123	.091	.669	-.131
90	4392	.134	.100	.759	-.136
90	4393	.136	.102	.775	-.148
90	4394	.142	.106	.799	-.126
90	4395	.144	.103	.670	-.178
90	4396	.162	.127	.848	-.198
90	4397	.107	.168	.815	-1.092
90	4398	.123	.149	.796	-1.087
90	4399	-.411	.211	.315	-1.482
90	4400	-.455	.196	.051	-1.439
90	4401	.045	.080	.443	-.197
90	4402	-.338	.203	.386	-1.227
90	4403	-.397	.180	.193	-1.264
90	4404	.051	.073	.362	-.214
90	4405	-.238	.180	.253	-1.033
90	4406	.048	.066	.379	-.161
90	4407	.047	.056	.350	-.124
90	4408	.047	.053	.323	-.134
90	4409	.036	.053	.311	-.136
90	4410	.054	.053	.358	-.135
90	4411	.064	.061	.446	-.171
90	4412	.059	.065	.498	-.152
90	4413	.056	.067	.465	-.310
90	4414	.058	.081	.514	-.303
90	4415	-.103	.123	.408	-.670
90	4416	.038	.066	.295	-.362
90	4417	.014	.090	.396	-.328
90	4418	.037	.053	.296	-.188
90	4419	.184	.115	.865	-.075
90	4420	.125	.095	.525	-.103
90	4421	.156	.098	.555	-.082
90	4422	.157	.103	.630	-.091
90	4423	.135	.090	.534	-.073
90	4424	.129	.098	.600	-.178
90	9901	.092	.066	.437	-.064
90	9902	.087	.066	.403	-.085
90	9903	.076	.065	.395	-.093
90	9904	.073	.056	.347	-.082
90	9905	.031	.048	.252	-.233
105	110	-.220	.132	.148	-.715
105	111	-.424	.220	.274	-1.225
105	112	-.349	.136	-.004	-.909
105	130	-.280	.112	.041	-.798
105	140	.218	.153	.972	-.303
105	141	.324	.180	.989	-.273
105	142	.431	.187	1.124	-.096
105	143	.389	.171	1.056	-.401
105	144	.434	.195	1.243	-.406
105	145	.397	.159	1.157	-.089
105	220	-.147	.085	.073	-.641
105	221	-.137	.080	.051	-.831
105	230	-.153	.091	.135	-.701
105	231	-.144	.109	.394	-.983
105	310	-.040	.156	.621	-.612
105	320	-.225	.119	.112	-.766
105	321	-.223	.114	.110	-.757
105	322	-.180	.126	.108	-.892
105	323	-.184	.114	.105	-.798
105	324	-.170	.105	.088	-.801
105	325	-.204	.118	.102	-.852
105	330	-.268	.183	.176	-1.372
105	331	-.190	.121	.240	-.768
105	332	-.186	.132	.471	-.866
105	410	.137	.160	.793	-.662
105	411	-.443	.178	-.033	-1.306
105	440	-.018	.223	.746	-.912
105	441	.443	.177	1.189	-.054
105	901	-.110	.217	.548	-.918
105	902	-.241	.104	.215	-.721
105	903	-.334	.149	.255	-1.064
105	904	-.342	.109	-.031	-.815
105	905	-.338	.083	-.105	-.671
105	906	-.304	.097	.005	-.767
105	907	-.289	.088	-.014	-.828
105	908	-.207	.137	.275	-.824
105	909	-.307	.113	-.001	-.798
105	910	-.251	.119	.089	-.793
105	911	-.293	.110	.054	-.804
105	912	-.320	.082	-.105	-.650
105	1101	-.455	.216	.202	-1.327
105	1102	-.361	.139	.001	-.981
105	1103	-.353	.139	.007	-1.045
105	1104	-.243	.201	.408	-.903
105	1105	-.074	.190	.530	-.997
105	1106	-.172	.117	.276	-.939
105	1107	.016	.115	.404	-.522
105	1108	.080	.124	.601	-.673
105	1109	.114	.149	.676	-.524
105	1110	-.178	.095	.143	-.655
105	1111	-.360	.144	.033	-1.110
105	1112	-.169	.096	.066	-.703
105	1113	-.493	.235	.525	-1.349
105	1114	.078	.135	.653	-.544
105	1115	-.169	.087	.103	-.677
105	1116	-.501	.231	.441	-1.372
105	1117	.060	.128	.525	-.613
105	1118	-.352	.151	.066	-1.007
105	1119	-.286	.184	.330	-1.057
105	1120	-.159	.180	.275	-1.044
105	1121	-.150	.116	.149	-.671
105	1122	-.065	.118	.262	-.581
105	1123	-.015	.092	.287	-.452
105	1124	-.498	.202	.235	-1.405
105	1125	-.339	.155	.092	-1.126
105	1126	-.342	.162	.099	-1.128
105	1127	-.255	.204	.363	-.916
105	1128	-.231	.231	.331	-1.304
105	1129	-.135	.205	.621	-1.001

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
105	1130	-.089	.180	.425	-.746
105	1131	-.116	.110	.225	-.665
105	1132	-.018	.126	.676	-.624
105	1133	-.041	.125	.264	-.807
105	1134	-.022	.114	.313	-.583
105	1135	-.002	.103	.304	-.481
105	1136	.024	.118	.544	-.483
105	1137	-.162	.089	.085	-.778
105	1138	-.164	.088	.179	-.673
105	1139	-.488	.207	.585	-1.336
105	1140	-.347	.194	.424	-1.516
105	1141	-.184	.254	.622	-1.128
105	1142	-.102	.235	.603	-1.179
105	1143	-.094	.164	.478	-.986
105	1144	.019	.153	.606	-.679
105	1145	.041	.143	.577	-.641
105	1146	-.469	.214	.359	-1.493
105	1147	-.468	.230	.468	-1.536
105	1148	-.324	.167	.124	-.955
105	1149	-.344	.166	.145	-1.141
105	1150	.013	.144	.620	-.663
105	1151	-.175	.090	.126	-.848
105	1152	-.168	.089	.153	-.725
105	1153	-.179	.095	.092	-.778
105	1154	-.467	.178	.109	-1.232
105	1155	-.467	.193	.310	-1.294
105	1156	-.333	.155	.121	-1.113
105	1157	-.339	.169	.130	-1.320
105	1158	.000	.148	.625	-.802
105	1159	-.176	.098	.171	-.766
105	1160	-.166	.098	.254	-.766
105	1161	-.439	.192	.388	-1.330
105	1162	-.429	.205	.507	-1.323
105	1163	-.319	.165	.188	-1.078
105	1164	-.304	.167	.155	-1.060
105	1165	-.242	.216	.408	-1.262
105	1166	-.127	.194	.491	-1.018
105	1167	-.133	.129	.374	-.843
105	1168	-.034	.123	.354	-.834
105	1169	-.040	.118	.334	-.745
105	1170	-.009	.137	.488	-.805
105	1171	-.177	.101	.099	-1.021
105	1172	-.167	.097	.104	-1.016
105	1173	-.307	.173	.214	-1.146
105	1174	-.173	.095	.181	-.694
105	1175	-.423	.216	.349	-1.519
105	1176	-.404	.229	.444	-1.528
105	1177	-.308	.166	.097	-1.004
105	1178	-.309	.172	.095	-1.205
105	1179	-.005	.134	.439	-.783
105	1180	-.163	.098	.121	-.905
105	1181	-.172	.096	.152	-.738
105	1182	-.409	.223	.351	-1.376
105	1183	-.398	.239	.622	-1.388
105	1184	-.287	.182	.187	-1.082
105	1185	-.299	.182	.167	-1.767
105	1186	.017	.127	.553	-.850
105	1187	-.172	.092	.077	-.681
105	1188	-.163	.090	.094	-.669
105	1189	-.350	.222	.455	-1.349
105	1190	-.326	.240	.512	-1.419
105	1191	-.241	.181	.144	-1.234
105	1192	-.221	.182	.317	-1.164
105	1193	-.203	.222	.572	-1.083
105	1194	-.092	.182	.483	-.951
105	1195	-.113	.121	.471	-1.016
105	1196	-.023	.112	.320	-.626
105	1197	-.015	.099	.349	-.760
105	1198	.016	.116	.596	-.656
105	1199	-.174	.093	.169	-.823
105	1200	-.369	.225	.364	-1.280
105	1201	-.362	.248	.498	-1.526
105	1202	-.271	.166	.313	-1.217
105	1203	-.277	.188	.344	-1.313
105	1204	.035	.120	.538	-.606
105	1205	-.171	.084	.060	-.653
105	1206	-.167	.082	.061	-.505
105	1207	-.314	.219	.347	-1.539
105	1208	-.264	.225	.417	-1.540
105	1209	-.229	.170	.222	-1.253
105	1210	-.224	.173	.215	-1.594
105	1211	.031	.104	.523	-.503
105	1212	-.162	.089	.060	-.589
105	1213	-.174	.097	.091	-.696
105	1214	-.183	.159	.243	-1.343
105	1215	-.175	.100	.097	-.772
105	1216	-.273	.210	.468	-1.576
105	1217	-.225	.203	.421	-1.404
105	1218	-.168	.152	.221	-1.694
105	1219	-.157	.154	.243	-1.199
105	1220	-.143	.170	.310	-1.323
105	1221	-.074	.147	.510	-.977
105	1222	-.012	.105	.345	-.619
105	1223	-.052	.067	.221	-.446
105	1224	-.003	.066	.302	-.431
105	1225	-.023	.072	.215	-.543
105	1226	-.005	.078	.284	-.573
105	1227	.009	.092	.405	-.588
105	1228	.018	.101	.389	-.676
105	1229	-.165	.093	.091	-.680
105	1230	-.151	.154	.411	-1.118
105	1231	-.124	.154	.440	-1.131
105	1232	-.109	.118	.198	-1.078
105	1233	-.123	.134	.226	-1.414
105	1234	.014	.083	.328	-.309
105	1235	-.206	.115	.104	-1.110
105	1236	-.211	.121	.084	-1.028
105	1237	-.125	.152	.360	-.985
105	1238	-.097	.154	.362	-.934
105	1239	-.086	.122	.279	-.833
105	1240	-.082	.123	.287	-.815
105	1241	-.235	.136	.033	-.868
105	1242	-.239	.142	.038	-.903
105	1243	-.089	.132	.319	-.835
105	1244	-.080	.136	.354	-.825
105	1245	-.044	.130	.601	-1.025
105	1246	-.022	.124	.597	-.878
105	1247	.005	.101	.443	-.685
105	1248	.030	.069	.377	-.322
105	1249	-.014	.051	.236	-.396
105	1250	.008	.044	.216	-.163
105	1251	-.006	.046	.183	-.173
105	1252	-.008	.056	.315	-.223
105	1253	-.268	.149	.058	-1.058
105	1254	-.027	.060	.423	-.375
105	1255	-.297	.168	.014	-1.484
105	1256	.006	.053	.334	-.218
105	1257	.028	.049	.241	-.178
105	1258	-.002	.048	.174	-.192
105	1259	.023	.041	.200	-.088
105	1260	.020	.047	.337	-.136
105	1261	-.007	.043	.121	-.259
105	1262	.020	.035	.143	-.131
105	1263	.045	.046	.284	-.108
105	1264	-.016	.048	.268	-.386
105	1265	-.027	.035	.100	-.162
105	1266	.036	.046	.289	-.127
105	1267	-.018	.049	.187	-.255
105	1901	-.260	.098	-.014	-.927
105	1902	-.229	.097	.097	-.729
105	1903	-.162	.097	.146	-.880
105	1904	-.106	.115	.479	-.553
105	1905	-.090	.096	.240	-.502
105	1906	-.131	.118	.425	-.610
105	1907	-.022	.122	.518	-.592
105	1908	-.128	.132	.444	-.640
105	1909	-.192	.086	.174	-.739
105	1910	-.246	.093	.067	-.751
105	1911	-.198	.092	.130	-.657
105	1912	-.138	.051	.021	-.308

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
105	2301	-.156	.083	.107	-.619
105	2302	-.039	.060	.138	-.259
105	2303	-.129	.064	.060	-.370
105	2304	-.097	.057	.073	-.309
105	2305	-.104	.057	.087	-.438
105	2306	-.139	.065	.061	-.505
105	2307	-.114	.061	.083	-.370
105	2308	-.114	.061	.068	-.335
105	2309	-.142	.065	.062	-.438
105	2310	-.174	.102	.103	-.865
105	2311	-.129	.073	.095	-.527
105	2312	-.142	.074	.081	-.733
105	2313	-.122	.058	.043	-.346
105	2314	-.231	.114	.044	-.745
105	2315	-.126	.068	.065	-.552
105	2316	-.123	.071	.272	-.610
105	2317	-.121	.057	.029	-.370
105	2318	-.144	.062	.044	-.459
105	2319	-.117	.058	.044	-.366
105	2320	-.111	.058	.049	-.395
105	2321	-.122	.056	.041	-.342
105	2322	-.138	.059	.022	-.413
105	2323	-.112	.055	.044	-.338
105	2324	-.107	.055	.047	-.338
105	2325	-.117	.053	.029	-.333
105	2326	-.141	.053	.039	-.425
105	2327	-.118	.052	.060	-.387
105	2328	-.106	.049	.054	-.342
105	2329	-.125	.050	.036	-.347
105	2330	-.135	.050	.037	-.307
105	2331	-.111	.049	.060	-.281
105	2332	-.106	.050	.066	-.340
105	2333	-.125	.050	.048	-.296
105	2334	-.139	.050	.039	-.333
105	2335	-.114	.049	.056	-.320
105	2336	-.110	.050	.073	-.314
105	2337	-.125	.050	.055	-.340
105	2338	-.127	.055	.072	-.416
105	2339	-.127	.058	.074	-.469
105	2340	-.107	.047	.054	-.307
105	2341	-.122	.048	.036	-.328
105	2342	-.134	.048	.025	-.324
105	2343	-.110	.046	.040	-.290
105	2344	-.105	.047	.063	-.302
105	2345	-.120	.047	.036	-.303
105	2346	-.134	.079	.082	-.722
105	2347	-.122	.049	.044	-.311
105	2348	-.111	.049	.056	-.293
105	2349	-.141	.056	.043	-.391
105	2350	-.123	.062	.098	-.496

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
105	2351	-.142	.055	.034	-.413
105	2352	-.117	.057	.070	-.377
105	2353	-.130	.050	.033	-.369
105	2354	-.217	.124	.092	-1.013
105	2355	-.243	.126	.129	-.839
105	2356	-.136	.076	.129	-.576
105	2357	-.150	.063	.039	-.514
105	2358	-.130	.062	.110	-.400
105	2359	-.165	.081	.090	-.951
105	2360	-.141	.080	.083	-.877
105	2361	-.114	.059	.058	-.459
105	2362	-.138	.088	.118	-.946
105	2363	-.148	.064	.017	-.484
105	2364	-.128	.057	.030	-.377
105	2365	-.121	.052	.028	-.326
105	2366	-.145	.052	.004	-.349
105	2367	-.130	.076	.075	-.578
105	2368	-.169	.066	.060	-.458
105	2369	-.163	.070	.084	-.475
105	2370	-.266	.141	.090	-.902
105	2371	-.147	.068	.063	-.532
105	2372	-.262	.138	.093	-.898
105	2373	-.134	.085	.111	-.836
105	2374	-.159	.090	.090	-.825
105	2375	-.188	.075	.053	-.566
105	2376	-.132	.074	.095	-.552
105	2377	-.132	.079	.079	-.534
105	2378	-.128	.062	.066	-.421
105	2379	-.139	.069	.050	-.495
105	2380	-.136	.083	.057	-.730
105	2381	-.164	.087	.114	-.678
105	2382	-.143	.077	.110	-.551
105	2383	-.178	.101	.040	-1.054
105	2384	-.177	.099	.045	-1.088
105	2385	-.159	.091	.064	-.998
105	2386	-.145	.088	.059	-.757
105	2387	-.169	.087	.023	-.751
105	2388	-.174	.090	.026	-.698
105	2389	-.172	.086	-.001	-.594
105	2390	-.162	.088	.056	-.665
105	2391	-.136	.073	.127	-.553
105	2392	-.129	.085	.178	-.525
105	2393	-.138	.095	.148	-.556
105	2394	-.133	.092	.141	-.519
105	2395	-.136	.090	.098	-.521
105	2396	-.138	.085	.103	-.840
105	2397	-.160	.095	.083	-.678
105	2398	-.144	.096	.131	-.827
105	2399	-.197	.109	.038	-.761
105	2400	-.210	.122	.056	-1.462

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
105	2401	-.180	.098	.071	-.784
105	2402	-.249	.142	.030	-.965
105	2403	-.266	.148	.021	-1.088
105	2404	-.229	.138	.019	-1.373
105	2405	-.298	.160	.025	-1.029
105	2406	-.280	.188	.034	-1.713
105	2407	-.216	.133	.072	-1.068
105	2408	-.125	.083	.115	-.598
105	2409	-.087	.064	.121	-.563
105	2410	-.069	.059	.106	-.470
105	2411	-.069	.061	.147	-.345
105	2412	-.073	.073	.171	-.441
105	2413	-.060	.073	.233	-.447
105	2414	-.090	.091	.181	-.709
105	2415	-.212	.130	.064	-1.034
105	2416	-.077	.075	.112	-.579
105	2417	-.054	.050	.097	-.296
105	2418	-.034	.038	.106	-.228
105	3101	-.216	.123	.105	-.821
105	3102	-.205	.116	.187	-.710
105	3103	-.190	.102	.261	-.637
105	3104	-.201	.110	.155	-.686
105	3105	-.231	.107	.161	-.766
105	3106	-.250	.100	.222	-.761
105	3107	-.275	.109	.052	-.823
105	3108	-.247	.087	.052	-.784
105	3109	-.256	.095	.030	-.710
105	3110	-.317	.112	.009	-.840
105	3111	-.224	.134	.342	-.914
105	3112	-.303	.113	.023	-.883
105	3113	-.223	.120	.079	-.785
105	3114	-.231	.097	.042	-.698
105	3115	-.280	.112	.035	-.769
105	3116	-.221	.121	.063	-.759
105	3117	-.236	.101	.137	-.787
105	3118	-.222	.125	.220	-.922
105	3119	-.215	.114	.181	-.750
105	3120	-.228	.114	.178	-.735
105	3121	-.277	.126	.205	-1.003
105	3122	-.256	.110	.124	-.883
105	3123	-.247	.099	.040	-.767
105	3124	-.231	.124	.117	-.766
105	3125	-.227	.117	.142	-.819
105	3126	-.212	.107	.126	-.647
105	3127	-.207	.100	.109	-.666
105	3128	-.220	.110	.110	-.808
105	3129	-.224	.104	.207	-.683
105	3130	-.229	.105	.189	-.775
105	3131	-.262	.117	.129	-1.070
105	3132	-.243	.101	.082	-.885

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
105	3133	-.261	.114	.096	-.831
105	3134	-.250	.104	.047	-.705
105	3135	-.241	.100	.045	-.669
105	3136	-.232	.097	.059	-.683
105	3137	-.278	.112	.115	-.961
105	3138	-.308	.126	.128	-.998
105	3139	-.211	.110	.093	-.695
105	3140	-.191	.096	.109	-.584
105	3141	-.207	.093	.129	-.599
105	3142	-.221	.096	.124	-.628
105	3143	-.238	.107	.181	-.844
105	3144	-.227	.096	.132	-.721
105	3145	-.227	.107	.037	-.868
105	3146	-.230	.126	.117	-.950
105	3147	-.219	.119	.122	-.964
105	3148	-.214	.121	.248	-.874
105	3149	-.231	.128	.156	-.952
105	3150	-.248	.105	.096	-.779
105	3151	-.292	.122	.100	-.910
105	3152	-.278	.115	.083	-.918
105	3153	-.296	.122	.015	-.968
105	3154	-.234	.121	.096	-.816
105	3155	-.224	.117	.119	-.775
105	3156	-.221	.124	.162	-.821
105	3157	-.244	.131	.127	-.778
105	3158	-.267	.108	.064	-.913
105	3159	-.310	.123	.008	-1.088
105	3160	-.297	.115	.035	-1.057
105	3161	-.237	.127	.082	-.835
105	3162	-.233	.122	.040	-.855
105	3163	-.234	.124	.176	-.716
105	3164	-.220	.112	.104	-.663
105	3165	-.242	.109	.182	-.806
105	3166	-.263	.112	.147	-.769
105	3167	-.285	.122	.114	-1.069
105	3168	-.276	.111	.086	-.846
105	3169	-.274	.107	.018	-.904
105	3170	-.275	.109	.013	-.887
105	3171	-.315	.122	.001	-.912
105	3172	-.306	.115	-.000	-.895
105	3173	-.239	.131	.237	-.942
105	3174	-.334	.132	.003	-1.008
105	3175	-.242	.125	.086	-.967
105	3176	-.234	.119	.062	-.927
105	3177	-.246	.131	.196	-.785
105	3178	-.248	.127	.170	-.737
105	3179	-.293	.112	.058	-.875
105	3180	-.332	.124	.046	-.950
105	3181	-.329	.131	.049	-1.042
105	3182	-.247	.131	.052	-.915
105	3183	-.241	.125	.046	-.950
105	3184	-.236	.144	.257	-.841
105	3185	-.236	.131	.206	-.859
105	3186	-.314	.119	.017	-1.121
105	3187	-.356	.134	.003	-1.201
105	3188	-.348	.129	-.023	-1.145
105	3189	-.232	.114	.041	-.856
105	3190	-.243	.117	.068	-.887
105	3191	-.227	.137	.228	-.820
105	3192	-.228	.133	.160	-.821
105	3193	-.258	.131	.120	-.818
105	3194	-.299	.133	.043	-.964
105	3195	-.310	.133	.084	-.896
105	3196	-.316	.122	.065	-.927
105	3197	-.322	.124	.015	-.956
105	3198	-.326	.126	.038	-1.128
105	3199	-.365	.138	-.025	-1.360
105	3200	-.213	.108	.088	-.874
105	3201	-.220	.109	.110	-.873
105	3202	-.190	.125	.253	-.964
105	3203	-.181	.119	.219	-.605
105	3204	-.334	.143	.030	-1.335
105	3205	-.387	.154	-.018	-1.147
105	3206	-.396	.152	-.054	-1.133
105	3207	-.201	.108	.062	-.877
105	3208	-.206	.110	.037	-.848
105	3209	-.133	.122	.358	-.573
105	3210	-.139	.118	.311	-.573
105	3211	-.361	.151	-.004	-1.241
105	3212	-.410	.163	-.025	-1.437
105	3213	-.439	.173	-.009	-1.459
105	3214	-.025	.104	.378	-.471
105	3215	-.435	.187	.093	-1.331
105	3216	-.208	.132	.156	-.823
105	3217	-.200	.122	.069	-.872
105	3218	-.028	.096	.428	-.371
105	3219	-.051	.082	.312	-.397
105	3220	-.075	.068	.180	-.409
105	3221	-.075	.088	.233	-.436
105	3222	-.169	.121	.270	-.824
105	3223	-.189	.159	.375	-.878
105	3224	-.312	.183	.199	-1.234
105	3225	-.343	.203	.124	-1.945
105	3226	-.342	.177	.046	-1.715
105	3227	-.343	.174	.086	-1.488
105	3228	-.350	.173	.087	-1.357
105	3229	-.431	.195	-.009	-1.412
105	3230	-.164	.128	.133	-.883
105	3231	-.159	.127	.116	-.823
105	3232	.012	.088	.494	-.348
105	3233	.007	.072	.448	-.301
105	3234	-.293	.165	.034	-1.255
105	3235	-.359	.180	.072	-1.442
105	3236	-.392	.181	.019	-1.523
105	3237	-.152	.127	.126	-.967
105	3238	-.154	.126	.121	-.895
105	3239	.010	.070	.393	-.229
105	3240	-.004	.059	.272	-.208
105	3241	-.264	.158	.154	-1.087
105	3242	-.303	.161	.065	-1.090
105	3243	-.130	.129	.113	-.924
105	3244	-.140	.133	.135	-1.000
105	3245	.005	.051	.247	-.206
105	3246	-.014	.044	.150	-.239
105	3247	-.007	.041	.146	-.167
105	3248	-.098	.061	.109	-.423
105	3249	.000	.064	.576	-.305
105	3250	.086	.126	.696	-.395
105	3251	.004	.090	.409	-.423
105	3252	-.175	.151	.232	-1.081
105	3253	-.168	.117	.150	-.749
105	3254	-.049	.049	.152	-.312
105	3255	-.056	.082	.267	-.506
105	3256	.032	.062	.303	-.241
105	3257	-.046	.049	.107	-.260
105	3258	-.009	.041	.164	-.178
105	3259	-.035	.057	.395	-.215
105	3260	-.089	.068	.102	-.487
105	3261	.018	.051	.334	-.230
105	3262	-.069	.066	.218	-.376
105	3263	.052	.059	.326	-.240
105	3264	.047	.071	.397	-.232
105	3265	.063	.058	.313	-.207
105	3266	.005	.048	.339	-.163
105	3267	-.025	.036	.079	-.176
105	4301	.011	.328	1.009	-1.270
105	4302	.434	.161	1.012	-.002
105	4303	.290	.159	.924	-.143
105	4304	.257	.151	.853	-.159
105	4305	.252	.163	.867	-.348
105	4306	.279	.162	.892	-.147
105	4307	.281	.157	.968	-.123
105	4308	.342	.168	1.024	-.071
105	4309	.411	.187	1.102	-.036
105	4310	.343	.207	1.075	-.557
105	4311	-.381	.200	.549	-1.167
105	4312	-.415	.209	.347	-1.571
105	4313	.364	.172	1.033	-.118
105	4314	.101	.266	.847	-.866
105	4315	-.387	.199	.437	-1.255

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
105	4316	-.384	.184	.173	-1.506
105	4317	-.309	.159	.973	-.126
105	4318	.319	.154	1.006	-.097
105	4319	.321	.148	1.023	-.072
105	4320	.318	.143	1.026	-.062
105	4321	.413	.177	1.319	-.177
105	4322	.351	.147	.902	-.190
105	4323	.345	.147	.918	-.157
105	4324	.412	.158	1.000	-.128
105	4325	.385	.153	.973	-.087
105	4326	.458	.193	1.241	-.095
105	4327	.424	.186	1.205	-.067
105	4328	.423	.178	1.142	-.033
105	4329	.476	.190	1.178	-.087
105	4330	.434	.192	1.141	.002
105	4331	.428	.188	1.127	.018
105	4332	.454	.192	1.190	.024
105	4333	.442	.194	1.197	.005
105	4334	.446	.190	1.101	.009
105	4335	.457	.191	1.104	.029
105	4336	.463	.188	1.133	.021
105	4337	.443	.190	1.105	.012
105	4338	.468	.188	1.260	-.006
105	4339	.457	.185	1.188	-.039
105	4340	.432	.174	1.085	-.040
105	4341	.004	.281	.876	-1.184
105	4342	.070	.307	1.118	-1.483
105	4343	-.397	.200	.400	-1.510
105	4344	-.390	.180	.188	-1.223
105	4345	-.294	.148	.856	-.184
105	4346	-.443	.235	.398	-1.354
105	4347	-.431	.188	.177	-1.342
105	4348	-.274	.144	.881	-.318
105	4349	-.432	.210	.505	-1.427
105	4350	.298	.162	.974	-.084
105	4351	.263	.138	.923	-.107
105	4352	.308	.149	1.042	-.090
105	4353	.354	.164	1.014	-.062
105	4354	.389	.175	1.059	-.032
105	4355	.403	.177	1.177	.017
105	4356	.390	.177	1.194	.002
105	4357	.364	.158	1.075	-.023
105	4358	.005	.317	.860	-1.408
105	4359	.267	.148	.909	-.116
105	4360	-.066	.302	.957	-1.266
105	4361	-.439	.217	.477	-1.477
105	4362	-.493	.218	.415	-1.571
105	4363	-.209	.133	.738	-.154
105	4364	-.451	.227	.331	-1.556
105	4365	-.451	.205	.093	-1.520
105	4366	.191	.127	.671	-.149
105	4367	-.441	.255	.627	-1.404
105	4368	.187	.129	.853	-.159
105	4369	.198	.121	.874	-.081
105	4370	.225	.131	.823	-.034
105	4371	.253	.143	.949	-.138
105	4372	.303	.146	1.067	-.026
105	4373	.320	.151	1.271	-.040
105	4374	.302	.153	1.243	-.115
105	4375	.290	.157	.901	-.083
105	4376	.051	.264	.807	-1.071
105	4377	-.451	.300	.464	-1.704
105	4378	-.471	.210	.300	-1.816
105	4379	-.152	.113	.631	-.232
105	4380	-.417	.295	.484	-1.747
105	4381	-.490	.236	.265	-1.464
105	4382	.119	.104	.610	-.195
105	4383	-.381	.280	.370	-1.931
105	4384	-.467	.256	.294	-2.124
105	4385	.110	.094	.650	-.187
105	4386	.107	.104	.657	-.189
105	4387	.111	.084	.609	-.131
105	4388	.094	.081	.590	-.190
105	4389	.126	.084	.624	-.117
105	4390	.136	.089	.669	-.091
105	4391	.166	.097	.662	-.117
105	4392	.154	.098	.627	-.115
105	4393	.133	.094	.648	-.124
105	4394	.144	.099	.683	-.094
105	4395	.140	.101	.590	-.109
105	4396	.130	.105	.655	-.129
105	4397	-.105	.237	.547	-1.863
105	4398	-.048	.217	.633	-1.749
105	4399	-.265	.235	.410	-1.435
105	4400	-.359	.215	.222	-1.493
105	4401	.090	.085	.531	-.189
105	4402	-.176	.195	.493	-1.360
105	4403	-.278	.189	.278	-1.277
105	4404	.075	.075	.450	-.134
105	4405	-.119	.156	.373	-.892
105	4406	.072	.072	.438	-.149
105	4407	.074	.065	.473	-.105
105	4408	.069	.061	.455	-.104
105	4409	.070	.060	.433	-.139
105	4410	.070	.060	.387	-.108
105	4411	.067	.055	.370	-.117
105	4412	.055	.054	.401	-.146
105	4413	.062	.066	.415	-.215
105	4414	-.030	.116	.305	-.922
105	4415	-.033	.104	.346	-.702
105	4416	-.000	.092	.306	-.658
105	4417	.025	.079	.394	-.340
105	4418	.041	.060	.312	-.420
105	4419	.233	.108	.887	-.019
105	4420	.180	.089	.739	-.067
105	4421	.213	.095	.837	-.018
105	4422	.210	.096	.776	-.014
105	4423	.167	.085	.569	-.045
105	4424	.198	.103	.744	-.025
105	9901	.104	.061	.429	-.054
105	9902	.102	.061	.451	-.060
105	9903	.081	.056	.345	-.065
105	9904	.094	.059	.428	-.050
105	9905	.036	.044	.244	-.118
120	110	-.169	.123	.265	-.616
120	111	-.315	.113	-.012	-.845
120	112	-.274	.100	.077	-.730
120	130	-.187	.094	.156	-.628
120	140	.267	.146	.932	-.148
120	141	.160	.136	.850	-.303
120	142	.432	.162	.960	-.044
120	143	.265	.181	.836	-.526
120	144	.407	.164	1.115	-.153
120	145	.306	.169	.850	-.692
120	220	-.189	.107	.091	-.854
120	221	-.169	.093	.090	-.716
120	230	-.157	.111	.235	-.753
120	231	-.166	.124	.496	-.732
120	310	-.125	.106	.361	-.523
120	320	-.199	.105	.088	-.666
120	321	-.196	.102	.125	-.725
120	322	-.162	.083	.060	-.638
120	323	-.178	.094	.067	-.688
120	324	-.139	.067	.058	-.647
120	325	-.172	.097	.161	-.817
120	330	-.318	.209	.163	-1.384
120	331	-.211	.112	.131	-.701
120	332	-.017	.201	.755	-.706
120	410	-.134	.155	.380	-.767
120	411	-.571	.166	-.038	-1.378
120	440	.216	.205	.937	-.647
120	441	.402	.154	.934	-.085
120	901	-.164	.116	.287	-.576
120	902	-.272	.117	.176	-.684
120	903	-.326	.109	.055	-.834
120	904	-.287	.096	-.035	-.737
120	905	-.271	.074	-.054	-.576
120	906	-.250	.087	.002	-.715
120	907	-.268	.087	.010	-.584
120	908	-.391	.154	.120	-.936

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	909	-.307	.096	-.035	-.692	120	1147	-.403	.138	-.027	-1.460	120	1197	-.186	.128	.256	-.732
120	910	-.274	.104	.109	-.792	120	1148	-.339	.118	-.013	-.949	120	1198	-.181	.144	.342	-.845
120	911	-.271	.096	.074	-.662	120	1149	-.334	.117	-.006	-.881	120	1199	-.210	.112	.135	-.848
120	912	-.252	.053	-.100	-.431	120	1150	-.224	.163	.329	-1.153	120	1200	-.425	.160	-.006	-1.270
120	1101	-.406	.141	-.057	-1.358	120	1151	-.214	.123	.078	-.957	120	1201	-.430	.167	.157	-1.276
120	1102	-.348	.121	.088	-1.126	120	1152	-.223	.133	.138	-.830	120	1202	-.372	.150	-.004	-1.223
120	1103	-.345	.118	.049	-.980	120	1153	-.224	.128	.148	-.810	120	1203	-.364	.149	-.004	-1.190
120	1104	-.349	.120	.127	-.841	120	1154	-.410	.138	-.038	-1.531	120	1204	-.155	.146	.409	-.672
120	1105	-.300	.124	.350	-.745	120	1155	-.409	.141	.039	-1.581	120	1205	-.217	.107	.132	-.741
120	1106	-.271	.125	.222	-.884	120	1156	-.345	.125	.055	-1.294	120	1206	-.217	.108	.096	-.724
120	1107	-.205	.126	.253	-.703	120	1157	-.332	.124	-.059	-1.138	120	1207	-.414	.185	.222	-1.588
120	1108	-.164	.123	.358	-.724	120	1158	-.234	.154	.268	-1.124	120	1208	-.414	.184	.292	-1.504
120	1109	-.151	.134	.484	-.691	120	1159	-.221	.124	.181	-1.042	120	1209	-.370	.161	.047	-1.182
120	1110	-.182	.110	.207	-.760	120	1160	-.229	.132	.222	-1.085	120	1210	-.379	.165	.054	-1.440
120	1111	-.342	.122	-.015	-1.084	120	1161	-.414	.144	.015	-1.313	120	1211	-.126	.137	.348	-.809
120	1112	-.186	.107	.210	-.692	120	1162	-.430	.147	.042	-1.346	120	1212	-.212	.099	.057	-.710
120	1113	-.384	.129	.040	-1.065	120	1163	-.355	.129	.046	-.987	120	1213	-.188	.095	.129	-.619
120	1114	-.177	.140	.447	-.726	120	1164	-.365	.129	.023	-1.076	120	1214	-.326	.154	.041	-1.245
120	1115	-.187	.112	.218	-.761	120	1165	-.350	.126	.095	-1.092	120	1215	-.191	.096	.126	-.636
120	1116	-.393	.132	.127	-1.084	120	1166	-.340	.139	.156	-.975	120	1216	-.390	.165	-.058	-1.268
120	1117	-.178	.152	.323	-1.078	120	1167	-.290	.128	.137	-.893	120	1217	-.385	.167	.036	-1.410
120	1118	-.342	.124	-.026	-.923	120	1168	-.244	.131	.240	-.816	120	1218	-.317	.152	.064	-1.249
120	1119	-.340	.123	.010	-.861	120	1169	-.223	.132	.265	-.739	120	1219	-.319	.155	.123	-1.297
120	1120	-.326	.127	.088	-.963	120	1170	-.231	.156	.306	-.959	120	1220	-.330	.165	.144	-1.458
120	1121	-.273	.116	.214	-.763	120	1171	-.236	.126	.286	-.698	120	1221	-.302	.166	.240	-1.315
120	1122	-.239	.115	.180	-.748	120	1172	-.241	.131	.310	-.900	120	1222	-.217	.160	.301	-1.083
120	1123	-.187	.112	.268	-.815	120	1173	-.349	.133	.001	-1.076	120	1223	-.190	.135	.293	-.754
120	1124	-.404	.128	-.027	-1.128	120	1174	-.232	.125	.094	-.908	120	1224	-.133	.123	.226	-.671
120	1125	-.329	.116	-.004	-.929	120	1175	-.413	.156	-.039	-1.455	120	1225	-.138	.106	.124	-.600
120	1126	-.342	.119	.003	-.823	120	1176	-.426	.161	-.004	-1.601	120	1226	-.121	.115	.255	-.588
120	1127	-.342	.121	.035	-.878	120	1177	-.351	.128	-.017	-1.030	120	1227	-.110	.120	.388	-.615
120	1128	-.352	.135	.046	-1.028	120	1178	-.363	.134	-.027	-1.037	120	1228	-.107	.130	.356	-.643
120	1129	-.337	.129	.114	-1.025	120	1179	-.208	.164	.407	-1.225	120	1229	-.189	.094	.064	-.672
120	1130	-.342	.136	.210	-1.073	120	1180	-.228	.123	.080	-.805	120	1230	-.346	.160	-.002	-1.165
120	1131	-.286	.130	.225	-.915	120	1181	-.218	.124	.107	-.842	120	1231	-.340	.164	.142	-1.139
120	1132	-.261	.126	.200	-.887	120	1182	-.428	.156	-.060	-1.229	120	1232	-.297	.151	.014	-1.149
120	1133	-.251	.142	.159	-.996	120	1183	-.423	.160	-.004	-1.236	120	1233	-.301	.148	.024	-1.068
120	1134	-.220	.125	.210	-.821	120	1184	-.359	.136	-.022	-1.154	120	1234	-.079	.101	.371	-.483
120	1135	-.189	.123	.221	-.739	120	1185	-.372	.145	-.059	-1.196	120	1235	-.186	.098	.187	-.778
120	1136	-.193	.139	.283	-.758	120	1186	-.206	.166	.391	-.997	120	1236	-.177	.098	.247	-.673
120	1137	-.194	.113	.183	-.807	120	1187	-.226	.126	.133	-1.170	120	1237	-.346	.156	.041	-1.246
120	1138	-.202	.122	.159	-.753	120	1188	-.230	.129	.147	-1.109	120	1238	-.331	.157	.148	-1.183
120	1139	-.407	.135	.035	-1.065	120	1189	-.442	.166	-.017	-1.570	120	1239	-.284	.147	.038	-1.268
120	1140	-.357	.125	.055	-1.125	120	1190	-.452	.171	.072	-1.444	120	1240	-.291	.151	.035	-1.507
120	1141	-.338	.134	.199	-1.069	120	1191	-.373	.148	.023	-1.131	120	1241	-.207	.110	.034	-.866
120	1142	-.344	.154	.239	-1.209	120	1192	-.378	.150	.016	-1.256	120	1242	-.195	.111	.059	-.934
120	1143	-.282	.139	.227	-1.074	120	1193	-.356	.158	.233	-1.329	120	1243	-.315	.168	.038	-1.205
120	1144	-.228	.143	.413	-.906	120	1194	-.302	.162	.217	-.972	120	1244	-.312	.168	.068	-1.161
120	1145	-.199	.153	.350	-.828	120	1195	-.260	.144	.252	-.930	120	1245	-.291	.172	.041	-1.137
120	1146	-.405	.138	-.031	-1.466	120	1196	-.208	.146	.280	-.904	120	1246	-.259	.161	.075	-1.139

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	1247	-.166	.132	.305	-1.202
120	1248	-.074	.089	.460	-.471
120	1249	-.087	.076	.245	-.622
120	1250	-.031	.053	.217	-.317
120	1251	-.030	.053	.256	-.358
120	1252	-.019	.064	.321	-.301
120	1253	-.210	.127	.053	-.850
120	1254	-.057	.064	.112	-.376
120	1255	-.209	.129	.058	-.975
120	1256	-.018	.047	.212	-.199
120	1257	-.038	.054	.164	-.448
120	1258	-.044	.049	.144	-.324
120	1259	-.014	.037	.109	-.235
120	1260	-.002	.047	.340	-.164
120	1261	-.074	.056	.157	-.377
120	1262	-.017	.037	.105	-.155
120	1263	.032	.049	.322	-.134
120	1264	-.054	.043	.144	-.288
120	1265	-.025	.029	.069	-.157
120	1266	-.016	.045	.158	-.244
120	1267	-.086	.066	.108	-.666
120	1901	-.336	.105	-.052	-.766
120	1902	-.332	.111	.173	-.792
120	1903	-.296	.121	.005	-.977
120	1904	-.127	.151	.482	-1.263
120	1905	-.103	.083	.185	-.397
120	1906	-.123	.105	.296	-.627
120	1907	-.184	.108	.268	-.664
120	1908	-.269	.142	.266	-.975
120	1909	-.254	.104	.139	-.893
120	1910	-.301	.111	.034	-.801
120	1911	-.243	.105	.150	-.678
120	1912	-.162	.052	-.035	-.377
120	2301	-.167	.094	.118	-.699
120	2302	-.053	.060	.142	-.297
120	2303	-.135	.063	.103	-.424
120	2304	-.128	.062	.055	-.395
120	2305	-.143	.061	.071	-.368
120	2306	-.152	.062	.067	-.494
120	2307	-.129	.061	.081	-.369
120	2308	-.123	.060	.066	-.393
120	2309	-.143	.064	.030	-.416
120	2310	-.156	.085	.098	-.815
120	2311	-.168	.093	.090	-.661
120	2312	-.172	.101	.079	-.792
120	2313	-.134	.061	.050	-.388
120	2314	-.188	.087	.076	-.645
120	2315	-.179	.101	.109	-.728
120	2316	-.184	.113	.098	-.740
120	2317	-.146	.062	.047	-.425
120	2318	-.166	.063	.051	-.574
120	2319	-.134	.055	.035	-.424
120	2320	-.131	.056	.048	-.444
120	2321	-.140	.050	.032	-.379
120	2322	-.154	.052	.005	-.372
120	2323	-.130	.051	.020	-.376
120	2324	-.118	.048	.035	-.321
120	2325	-.139	.049	.010	-.381
120	2326	-.145	.045	.023	-.377
120	2327	-.119	.044	.033	-.345
120	2328	-.116	.045	.010	-.359
120	2329	-.133	.045	.010	-.337
120	2330	-.147	.045	.012	-.338
120	2331	-.120	.044	.042	-.295
120	2332	-.115	.046	.046	-.315
120	2333	-.133	.046	.036	-.332
120	2334	-.159	.051	-.013	-.418
120	2335	-.129	.051	.020	-.372
120	2336	-.120	.051	.044	-.375
120	2337	-.144	.057	.039	-.433
120	2338	-.128	.056	.067	-.424
120	2339	-.128	.061	.056	-.480
120	2340	-.124	.061	.051	-.442
120	2341	-.171	.090	.151	-.616
120	2342	-.181	.086	.138	-.718
120	2343	-.184	.110	.098	-.715
120	2344	-.190	.122	.096	-.776
120	2345	-.146	.066	.032	-.543
120	2346	-.196	.115	.204	-1.076
120	2347	-.227	.135	.127	-.844
120	2348	-.144	.067	.093	-.422
120	2349	-.236	.132	.210	-.831
120	2350	-.142	.066	.103	-.634
120	2351	-.164	.061	.042	-.459
120	2352	-.139	.052	.016	-.350
120	2353	-.127	.044	.050	-.516
120	2354	-.145	.046	.030	-.403
120	2355	-.160	.057	.032	-.491
120	2356	-.143	.062	.072	-.463
120	2357	-.137	.063	.054	-.433
120	2358	-.180	.098	.135	-.906
120	2359	-.163	.065	.097	-.441
120	2360	-.176	.097	.094	-.909
120	2361	-.200	.131	.248	-.902
120	2362	-.212	.133	.081	-1.243
120	2363	-.167	.069	.085	-.420
120	2364	-.210	.127	.096	-.628
120	2365	-.205	.132	.089	-.870
120	2366	-.158	.069	.047	-.447
120	2367	-.193	.120	.155	-1.141
120	2368	-.149	.073	.053	-.474
120	2369	-.140	.071	.080	-.433
120	2370	-.159	.065	.078	-.440
120	2371	-.155	.055	.028	-.404
120	2372	-.133	.054	.079	-.419
120	2373	-.130	.066	.080	-.494
120	2374	-.157	.071	.041	-.589
120	2375	-.139	.070	.039	-.591
120	2376	-.160	.082	.046	-.687
120	2377	-.192	.110	.158	-.714
120	2378	-.209	.110	.131	-.859
120	2379	-.155	.078	.074	-.565
120	2380	-.176	.095	.076	-.664
120	2381	-.194	.108	.122	-.639
120	2382	-.151	.079	.099	-.445
120	2383	-.160	.082	.143	-.560
120	2384	-.159	.088	.102	-.729
120	2385	-.138	.072	.084	-.436
120	2386	-.153	.075	.083	-.452
120	2387	-.158	.078	.074	-.486
120	2388	-.158	.078	.070	-.562
120	2389	-.154	.077	.103	-.441
120	2390	-.112	.072	.148	-.522
120	2391	-.098	.063	.283	-.399
120	2392	-.115	.089	.109	-.835
120	2393	-.129	.094	.077	-.873
120	2394	-.123	.098	.110	-.876
120	2395	-.106	.074	.124	-.505
120	2396	-.116	.092	.088	-.634
120	2397	-.143	.103	.089	-.811
120	2398	-.131	.101	.113	-.699
120	2399	-.175	.079	.079	-.534
120	2400	-.169	.080	.095	-.523
120	2401	-.157	.071	.082	-.446
120	2402	-.174	.089	.075	-.554
120	2403	-.165	.090	.074	-.647
120	2404	-.137	.078	.102	-.537
120	2405	-.179	.106	.079	-.765
120	2406	-.142	.092	.056	-.799
120	2407	-.167	.091	.194	-.685
120	2408	-.129	.077	.153	-.493
120	2409	-.088	.061	.163	-.398
120	2410	-.062	.056	.178	-.328
120	2411	-.056	.054	.139	-.488
120	2412	-.053	.055	.153	-.398
120	2413	-.068	.059	.142	-.374
120	2414	-.071	.069	.113	-.561
120	2415	-.147	.101	.067	-.942
120	2416	-.048	.046	.074	-.437
120	2417	-.062	.045	.093	-.238

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	2418	-.021	.033	.087	-.151
120	3101	-.192	.109	.131	-.709
120	3102	-.069	.144	.578	-.668
120	3103	-.086	.135	.406	-.605
120	3104	-.131	.129	.315	-.727
120	3105	-.249	.124	.268	-.791
120	3106	-.282	.143	.231	-.837
120	3107	-.373	.124	.081	-.839
120	3108	-.406	.125	-.067	-1.030
120	3109	-.421	.128	-.053	-1.024
120	3110	-.553	.165	-.148	-1.221
120	3111	-.077	.143	.547	-.651
120	3112	-.542	.167	-.004	-1.291
120	3113	-.192	.103	.124	-.642
120	3114	-.394	.117	-.039	-1.004
120	3115	-.536	.155	-.097	-1.221
120	3116	-.182	.100	.150	-.645
120	3117	-.397	.119	-.044	-.915
120	3118	-.112	.147	.449	-.990
120	3119	-.164	.159	.368	-.865
120	3120	-.254	.159	.327	-.897
120	3121	-.295	.181	.278	-1.081
120	3122	-.338	.166	.317	-.992
120	3123	-.404	.127	.012	-1.099
120	3124	-.175	.098	.171	-.612
120	3125	-.125	.128	.268	-.699
120	3126	-.130	.120	.305	-.583
120	3127	-.171	.124	.239	-.770
120	3128	-.204	.146	.225	-.857
120	3129	-.207	.142	.244	-.769
120	3130	-.249	.134	.227	-.796
120	3131	-.308	.144	.194	-.815
120	3132	-.345	.135	.099	-.839
120	3133	-.392	.141	.086	-1.115
120	3134	-.381	.122	.023	-.874
120	3135	-.394	.118	-.078	-.932
120	3136	-.386	.116	-.065	-.930
120	3137	-.491	.151	.451	-1.184
120	3138	-.515	.162	-.105	-1.337
120	3139	-.174	.094	.156	-.652
120	3140	-.140	.105	.259	-.778
120	3141	-.216	.127	.192	-.710
120	3142	-.272	.127	.211	-.732
120	3143	-.311	.137	.183	-.822
120	3144	-.374	.120	.127	-.874
120	3145	-.377	.120	.041	-.895
120	3146	-.177	.103	.170	-.721
120	3147	-.183	.100	.115	-.741
120	3148	-.128	.145	.294	-.923
120	3149	-.145	.137	.299	-.758
120	3150	-.366	.120	-.019	-.912
120	3151	-.478	.144	-.064	-1.148
120	3152	-.472	.142	-.117	-1.134
120	3153	-.490	.153	.139	-1.332
120	3154	-.188	.103	.139	-.795
120	3155	-.193	.103	.131	-.861
120	3156	-.143	.150	.468	-.792
120	3157	-.136	.133	.299	-.728
120	3158	-.372	.130	-.033	-1.382
120	3159	-.481	.156	.126	-1.390
120	3160	-.479	.154	.025	-1.379
120	3161	-.193	.104	.137	-.906
120	3162	-.196	.102	.218	-.806
120	3163	-.140	.140	.289	-.874
120	3164	-.153	.127	.254	-.752
120	3165	-.187	.143	.173	-.860
120	3166	-.255	.146	.192	-.918
120	3167	-.300	.157	.208	-.994
120	3168	-.374	.140	.181	-.985
120	3169	-.379	.134	-.025	-.990
120	3170	-.376	.131	-.015	-.989
120	3171	-.491	.162	.015	-1.309
120	3172	-.499	.159	-.035	-1.324
120	3173	-.147	.152	.358	-.815
120	3174	-.511	.155	-.044	-1.442
120	3175	-.202	.102	.126	-.745
120	3176	-.210	.102	.085	-.745
120	3177	-.124	.150	.415	-.955
120	3178	-.129	.141	.396	-.921
120	3179	-.385	.136	-.007	-1.220
120	3180	-.505	.166	.003	-1.557
120	3181	-.502	.172	-.068	-1.334
120	3182	-.191	.095	.093	-.811
120	3183	-.194	.096	.049	-.842
120	3184	-.095	.140	.446	-.703
120	3185	-.100	.135	.365	-.619
120	3186	-.389	.144	.005	-1.211
120	3187	-.513	.178	.018	-1.347
120	3188	-.526	.178	-.140	-1.408
120	3189	-.177	.088	.075	-.685
120	3190	-.182	.092	.082	-.688
120	3191	-.061	.123	.384	-.657
120	3192	-.084	.112	.243	-.678
120	3193	-.120	.127	.239	-.655
120	3194	-.206	.140	.218	-.865
120	3195	-.235	.180	.294	-.919
120	3196	-.357	.175	.176	-1.056
120	3197	-.375	.154	-.013	-1.138
120	3198	-.380	.152	-.037	-1.156
120	3199	-.524	.195	-.007	-1.379
120	3200	-.171	.094	.081	-.665
120	3201	-.178	.093	.046	-.671
120	3202	-.025	.119	.403	-.609
120	3203	-.030	.106	.382	-.557
120	3204	-.376	.161	-.002	-1.288
120	3205	-.521	.203	.114	-1.502
120	3206	-.553	.200	-.085	-1.472
120	3207	-.168	.102	.088	-1.046
120	3208	-.166	.102	.061	-1.019
120	3209	.007	.092	.426	-.339
120	3210	-.006	.080	.365	-.345
120	3211	-.337	.159	-.009	-1.148
120	3212	-.448	.212	.448	-1.299
120	3213	-.479	.205	.078	-1.422
120	3214	.014	.089	.444	-.326
120	3215	-.393	.206	.347	-1.443
120	3216	-.157	.107	.148	-1.042
120	3217	-.157	.102	.064	-.857
120	3218	.009	.077	.387	-.291
120	3219	-.015	.059	.251	-.342
120	3220	-.040	.046	.122	-.274
120	3221	-.031	.059	.272	-.312
120	3222	-.111	.075	.248	-.597
120	3223	-.059	.109	.525	-.781
120	3224	-.198	.165	.293	-1.063
120	3225	-.261	.179	.169	-1.136
120	3226	-.276	.151	.039	-1.054
120	3227	-.292	.150	-.014	-1.096
120	3228	-.298	.148	-.003	-1.030
120	3229	-.461	.203	.056	-1.450
120	3230	-.150	.102	.113	-.831
120	3231	-.142	.101	.121	-.829
120	3232	.013	.075	.405	-.244
120	3233	.010	.064	.348	-.206
120	3234	-.239	.128	.027	-.954
120	3235	-.309	.182	.279	-1.279
120	3236	-.379	.180	.059	-1.364
120	3237	-.107	.081	.094	-.612
120	3238	-.106	.080	.076	-.620
120	3239	.000	.051	.350	-.169
120	3240	-.013	.043	.218	-.174
120	3241	-.186	.124	.352	-.793
120	3242	-.249	.114	.053	-.801
120	3243	-.105	.073	.078	-.527
120	3244	-.112	.077	.113	-.559
120	3245	-.019	.040	.174	-.157
120	3246	-.026	.035	.111	-.133
120	3247	-.027	.033	.105	-.166
120	3248	-.067	.039	.064	-.237
120	3249	-.014	.043	.195	-.164

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	3250	-.027	.059	.211	-.344
120	3251	-.066	.065	.210	-.409
120	3252	-.092	.067	.094	-.484
120	3253	-.140	.080	.106	-.544
120	3254	-.073	.060	.053	-.439
120	3255	-.066	.063	.153	-.465
120	3256	-.004	.057	.269	-.356
120	3257	-.036	.036	.096	-.213
120	3258	-.018	.033	.113	-.165
120	3259	-.015	.041	.146	-.155
120	3260	-.047	.038	.087	-.300
120	3261	-.015	.036	.134	-.148
120	3262	-.077	.050	.083	-.300
120	3263	.026	.042	.217	-.116
120	3264	.015	.050	.237	-.220
120	3265	.002	.055	.217	-.377
120	3266	-.016	.030	.119	-.122
120	3267	-.028	.029	.098	-.144
120	4301	.193	.246	.897	-1.017
120	4302	.434	.139	.950	.024
120	4303	.319	.143	.915	-.060
120	4304	.273	.135	.798	-.100
120	4305	.285	.134	.820	-.141
120	4306	.291	.137	.820	-.146
120	4307	.281	.140	.792	-.105
120	4308	.326	.151	.908	-.104
120	4309	.404	.156	1.027	-.041
120	4310	.225	.244	1.090	-.723
120	4311	-.238	.278	.740	-1.225
120	4312	-.332	.265	.512	-1.297
120	4313	.390	.151	.965	-.041
120	4314	-.326	.208	.400	-1.102
120	4315	-.345	.297	.772	-1.291
120	4316	-.437	.249	.366	-1.314
120	4317	.365	.142	.844	-.064
120	4318	.362	.137	.850	.015
120	4319	.392	.142	.913	.031
120	4320	.381	.137	.842	.025
120	4321	.440	.148	1.065	.058
120	4322	.421	.147	1.056	-.029
120	4323	.419	.148	.999	-.051
120	4324	.442	.151	1.091	.011
120	4325	.436	.148	1.047	.017
120	4326	.456	.161	1.158	.027
120	4327	.455	.160	1.114	.047
120	4328	.447	.159	1.072	.039
120	4329	.445	.160	1.126	.046
120	4330	.459	.154	1.100	-.045
120	4331	.462	.152	1.096	.029
120	4332	.443	.148	1.035	.065
120	4333	.452	.149	1.059	.065
120	4334	.435	.153	.930	.088
120	4335	.434	.152	.969	.072
120	4336	.453	.156	.964	.060
120	4337	.386	.146	.905	.044
120	4338	.368	.144	.920	-.002
120	4339	.363	.147	.972	-.067
120	4340	.352	.140	.882	-.055
120	4341	-.414	.229	.502	-1.371
120	4342	-.407	.241	.426	-1.151
120	4343	-.354	.320	.700	-1.495
120	4344	-.445	.268	.427	-1.483
120	4345	.338	.135	.813	-.129
120	4346	-.357	.325	.702	-1.618
120	4347	-.442	.268	.375	-1.936
120	4348	-.322	.140	.840	-.067
120	4349	-.349	.324	.648	-2.057
120	4350	.308	.131	.841	-.098
120	4351	.333	.128	.794	-.001
120	4352	.368	.130	.792	.026
120	4353	.389	.134	.854	.032
120	4354	.385	.134	.856	.046
120	4355	.372	.140	.951	.011
120	4356	.322	.137	.994	-.030
120	4357	.308	.142	.856	-.092
120	4358	-.481	.292	.788	-1.597
120	4359	.298	.134	.776	-.073
120	4360	-.508	.251	.362	-1.508
120	4361	-.337	.325	.669	-1.676
120	4362	-.425	.271	.395	-1.657
120	4363	.302	.132	.869	-.083
120	4364	-.340	.298	.557	-1.551
120	4365	-.410	.257	.551	-1.502
120	4366	.269	.130	1.020	-.123
120	4367	-.219	.297	.580	-1.479
120	4368	.223	.124	.799	-.101
120	4369	.262	.128	.835	-.043
120	4370	.285	.128	.860	-.023
120	4371	.311	.125	.925	-.024
120	4372	.268	.122	.858	-.042
120	4373	.247	.115	.856	-.050
120	4374	.204	.110	.714	-.077
120	4375	.200	.120	.726	-.121
120	4376	-.490	.279	.391	-1.504
120	4377	-.166	.291	.865	-1.593
120	4378	-.300	.257	.450	-1.572
120	4379	.217	.118	.712	-.116
120	4380	-.119	.258	.626	-1.569
120	4381	-.260	.247	.441	-1.679
120	4382	.181	.111	.595	-.168
120	4383	-.080	.224	.538	-1.172
120	4384	-.203	.238	.508	-1.320
120	4385	.154	.100	.607	-.146
120	4386	.159	.104	.737	-.100
120	4387	.164	.090	.531	-.052
120	4388	.142	.088	.486	-.084
120	4389	.163	.088	.550	-.042
120	4390	.154	.087	.573	-.058
120	4391	.145	.087	.565	-.086
120	4392	.103	.081	.486	-.113
120	4393	.065	.073	.461	-.141
120	4394	.074	.076	.458	-.122
120	4395	.079	.079	.431	-.139
120	4396	.073	.091	.481	-.222
120	4397	-.443	.245	.421	-1.463
120	4398	-.389	.265	.358	-1.457
120	4399	-.026	.170	.464	-1.231
120	4400	-.126	.180	.406	-1.286
120	4401	.133	.084	.528	-.134
120	4402	-.001	.135	.474	-.985
120	4403	-.046	.136	.439	-.778
120	4404	.098	.069	.505	-.110
120	4405	.014	.100	.397	-.630
120	4406	.088	.064	.403	-.131
120	4407	.097	.065	.429	-.099
120	4408	.083	.060	.391	-.081
120	4409	.076	.051	.369	-.067
120	4410	.055	.052	.339	-.127
120	4411	.057	.048	.248	-.104
120	4412	.030	.047	.270	-.144
120	4413	.029	.056	.305	-.167
120	4414	-.272	.193	.202	-1.150
120	4415	.019	.085	.320	-.327
120	4416	-.159	.135	.200	-.804
120	4417	.023	.068	.280	-.290
120	4418	-.040	.071	.334	-.434
120	4419	.162	.085	.620	-.066
120	4420	.154	.077	.543	-.040
120	4421	.183	.083	.614	.012
120	4422	.166	.079	.521	-.010
120	4423	.125	.068	.439	-.075
120	4424	.186	.084	.547	.002
120	9901	.075	.043	.326	-.084
120	9902	.073	.043	.355	-.072
120	9903	.046	.038	.263	-.080
120	9904	.077	.047	.307	-.087
120	9905	-.011	.047	.143	-.239
135	110	-.194	.077	.128	-.549
135	111	-.221	.067	-.047	-.623
135	112	-.205	.064	-.025	-.527

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
135	130	-.115	.086	.197	-.584
135	140	.254	.149	.775	-.200
135	141	.049	.136	.548	-.440
135	142	.365	.152	.940	-.040
135	143	-.055	.233	.654	-.703
135	144	.400	.163	.980	-.082
135	145	.074	.229	.840	-.786
135	220	-.231	.104	.032	-.746
135	221	-.260	.120	.058	-.824
135	230	-.170	.115	.194	-.789
135	231	-.078	.121	.396	-.584
135	310	-.093	.097	.294	-.979
135	320	-.153	.062	.015	-.376
135	321	-.154	.062	.006	-.372
135	322	-.191	.060	-.018	-.437
135	323	-.192	.061	.005	-.497
135	324	-.162	.060	.016	-.382
135	325	-.164	.054	.035	-.394
135	330	-.188	.126	.245	-.871
135	331	-.206	.066	.058	-.485
135	332	.326	.142	.854	-.383
135	410	-.373	.131	.197	-.804
135	411	-.498	.122	-.086	-1.032
135	440	.416	.176	1.066	-.231
135	441	.338	.158	.890	-.363
135	901	-.119	.080	.186	-.489
135	902	-.159	.057	.016	-.405
135	903	-.220	.070	-.145	-.514
135	904	-.273	.082	-.050	-.746
135	905	-.278	.058	-.077	-.501
135	906	-.285	.075	-.024	-.648
135	907	-.322	.088	-.050	-.719
135	908	-.388	.098	-.065	-.757
135	909	-.258	.071	-.023	-.521
135	910	-.261	.081	.036	-.666
135	911	-.270	.081	.078	-.731
135	912	-.263	.042	-.104	-.422
135	1101	-.247	.081	-.022	-.798
135	1102	-.222	.073	.010	-.641
135	1103	-.224	.071	.013	-.667
135	1104	-.232	.073	-.015	-.665
135	1105	-.223	.087	.084	-.906
135	1106	-.213	.085	.047	-.883
135	1107	-.199	.078	.101	-.605
135	1108	-.209	.082	.122	-.729
135	1109	-.219	.091	.122	-.750
135	1110	-.232	.098	.056	-.786
135	1111	-.210	.072	.018	-.613
135	1112	-.228	.094	.051	-.804
135	1113	-.243	.087	.000	-.676
135	1114	-.238	.094	.256	-.672
135	1115	-.243	.098	.054	-.737
135	1116	-.251	.090	-.007	-.676
135	1117	-.236	.098	.131	-.719
135	1118	-.220	.079	.049	-.558
135	1119	-.221	.079	.043	-.761
135	1120	-.234	.089	.042	-1.103
135	1121	-.210	.073	.018	-.581
135	1122	-.217	.074	.041	-.615
135	1123	-.236	.086	.016	-.705
135	1124	-.246	.086	-.004	-.802
135	1125	-.201	.072	.018	-.518
135	1126	-.212	.075	.032	-.558
135	1127	-.216	.077	.007	-.676
135	1128	-.223	.085	.007	-.915
135	1129	-.217	.083	.027	-.694
135	1130	-.236	.094	.071	-.898
135	1131	-.216	.080	.121	-.734
135	1132	-.220	.077	.133	-.647
135	1133	-.216	.080	.041	-.845
135	1134	-.218	.076	.038	-.654
135	1135	-.224	.083	.065	-.595
135	1136	-.238	.092	.104	-.687
135	1137	-.226	.089	.004	-.664
135	1138	-.237	.099	-.010	-.811
135	1139	-.251	.099	.066	-1.021
135	1140	-.226	.088	.065	-.707
135	1141	-.224	.089	.057	-.695
135	1142	-.249	.102	.012	-.928
135	1143	-.222	.085	.042	-.790
135	1144	-.230	.088	.092	-.798
135	1145	-.231	.095	.108	-.813
135	1146	-.249	.090	.052	-.711
135	1147	-.251	.098	.056	-.832
135	1148	-.219	.080	.053	-.664
135	1149	-.212	.079	.065	-.649
135	1150	-.254	.098	.031	-1.089
135	1151	-.241	.096	.015	-.919
135	1152	-.252	.103	-.007	-1.081
135	1153	-.243	.104	-.011	-.815
135	1154	-.258	.091	.064	-.647
135	1155	-.260	.102	.044	-.939
135	1156	-.227	.085	.068	-.616
135	1157	-.221	.086	.033	-.640
135	1158	-.259	.103	.074	-.818
135	1159	-.248	.099	-.019	-.866
135	1160	-.260	.105	-.023	-.822
135	1161	-.257	.096	.043	-.703
135	1162	-.278	.104	.031	-.825
135	1163	-.242	.091	.071	-.691
135	1164	-.248	.091	.058	-.748
135	1165	-.246	.098	.125	-.732
135	1166	-.270	.107	.093	-1.035
135	1167	-.247	.092	.037	-.812
135	1168	-.253	.095	.051	-.791
135	1169	-.252	.094	.072	-.825
135	1170	-.275	.106	.188	-1.009
135	1171	-.263	.102	-.031	-.785
135	1172	-.276	.106	-.026	-.803
135	1173	-.245	.092	.035	-.708
135	1174	-.282	.108	-.012	-.806
135	1175	-.282	.101	.015	-.795
135	1176	-.297	.109	.025	-.885
135	1177	-.246	.091	.001	-.674
135	1178	-.264	.095	.007	-.773
135	1179	-.280	.110	.183	-.958
135	1180	-.277	.108	-.019	-.832
135	1181	-.275	.111	.043	-.849
135	1182	-.306	.102	-.026	-.956
135	1183	-.307	.108	-.002	-.944
135	1184	-.277	.097	.068	-.738
135	1185	-.270	.097	.009	-.808
135	1186	-.303	.106	.098	-.799
135	1187	-.284	.109	-.005	-.812
135	1188	-.300	.114	.003	-.789
135	1189	-.327	.111	.018	-.893
135	1190	-.348	.120	.012	-.978
135	1191	-.311	.108	.005	-.834
135	1192	-.319	.109	.116	-.849
135	1193	-.309	.107	.013	-.937
135	1194	-.330	.121	.052	-1.468
135	1195	-.303	.108	.078	-.934
135	1196	-.300	.103	.077	-.784
135	1197	-.293	.104	.035	-.837
135	1198	-.319	.114	.024	-.982
135	1199	-.304	.118	-.022	-.982
135	1200	-.349	.112	-.050	-.930
135	1201	-.344	.112	-.077	-.854
135	1202	-.325	.104	-.052	-.768
135	1203	-.318	.103	-.034	-.742
135	1204	-.323	.113	.041	-.774
135	1205	-.292	.112	.074	-.888
135	1206	-.316	.117	.057	-.940
135	1207	-.362	.112	-.095	-1.017
135	1208	-.379	.117	-.098	-1.055
135	1209	-.345	.112	.011	-.986
135	1210	-.364	.115	-.012	-1.066
135	1211	-.318	.118	.120	-1.029
135	1212	-.302	.112	.085	-.875
135	1213	-.303	.125	.038	-1.015

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
135	1214	-.344	.113	-.007	-.875
135	1215	-.276	.116	.104	-.915
135	1216	-.365	.125	.109	-.849
135	1217	-.365	.132	.019	-1.086
135	1218	-.335	.124	.027	-1.064
135	1219	-.339	.125	.038	-1.128
135	1220	-.352	.125	-.035	-1.073
135	1221	-.380	.129	-.049	-.951
135	1222	-.378	.133	.011	-.962
135	1223	-.357	.127	.029	-.871
135	1224	-.333	.121	.012	-.930
135	1225	-.295	.106	.019	-.837
135	1226	-.291	.107	.114	-.771
135	1227	-.297	.111	.059	-.779
135	1228	-.306	.114	.035	-.768
135	1229	-.295	.116	.014	-.729
135	1230	-.389	.132	-.016	-1.019
135	1231	-.397	.138	-.023	-1.028
135	1232	-.369	.128	-.004	-.969
135	1233	-.377	.123	-.014	-.961
135	1234	-.255	.118	.173	-.746
135	1235	-.256	.104	.012	-.793
135	1236	-.251	.105	.040	-.710
135	1237	-.400	.167	-.080	-1.358
135	1238	-.404	.176	-.027	-1.617
135	1239	-.369	.160	-.058	-1.604
135	1240	-.375	.163	-.060	-1.329
135	1241	-.229	.110	.097	-.958
135	1242	-.214	.108	.111	-1.001
135	1243	-.435	.179	.001	-1.873
135	1244	-.440	.177	-.011	-1.793
135	1245	-.444	.192	-.059	-1.692
135	1246	-.398	.162	.007	-1.299
135	1247	-.359	.158	.212	-1.169
135	1248	-.277	.117	.114	-.911
135	1249	-.244	.102	.116	-.771
135	1250	-.170	.087	.102	-.559
135	1251	-.142	.078	.195	-.540
135	1252	-.138	.083	.365	-.563
135	1253	-.167	.114	.069	-1.119
135	1254	-.165	.089	.100	-.594
135	1255	-.133	.108	.092	-1.069
135	1256	-.103	.064	.125	-.413
135	1257	-.182	.087	.057	-.726
135	1258	-.117	.067	.121	-.421
135	1259	-.108	.065	.118	-.400
135	1260	-.060	.069	.337	-.346
135	1261	-.245	.117	.104	-.771
135	1262	-.103	.061	.075	-.359
135	1263	.035	.065	.315	-.196
135	1264	-.148	.081	.167	-.641
135	1265	-.045	.051	.113	-.266
135	1266	-.154	.073	.126	-.487
135	1267	-.283	.119	.076	-.837
135	1901	-.350	.090	-.093	-.675
135	1902	-.368	.118	.055	-.782
135	1903	-.270	.083	.040	-.565
135	1904	-.290	.184	.455	-.972
135	1905	-.125	.107	.186	-.457
135	1906	.031	.094	.408	-.262
135	1907	-.130	.089	.210	-.600
135	1908	-.157	.113	.329	-.800
135	1909	-.255	.102	.121	-.600
135	1910	-.210	.092	.106	-.564
135	1911	-.144	.075	.153	-.448
135	1912	-.032	.051	.118	-.202
135	2301	-.203	.091	.011	-.779
135	2302	-.072	.054	.089	-.331
135	2303	-.151	.057	.038	-.382
135	2304	-.136	.057	.054	-.472
135	2305	-.168	.060	.010	-.488
135	2306	-.187	.062	.005	-.675
135	2307	-.170	.053	.007	-.404
135	2308	-.163	.051	.011	-.362
135	2309	-.185	.052	.021	-.383
135	2310	-.191	.068	.091	-.626
135	2311	-.205	.086	.087	-.862
135	2312	-.211	.099	-.001	-.745
135	2313	-.158	.051	-.005	-.447
135	2314	-.205	.058	-.025	-.717
135	2315	-.215	.091	-.029	-.811
135	2316	-.222	.101	-.008	-.730
135	2317	-.183	.050	-.026	-.407
135	2318	-.196	.051	-.037	-.451
135	2319	-.161	.048	-.002	-.349
135	2320	-.154	.047	-.004	-.339
135	2321	-.170	.048	-.028	-.342
135	2322	-.182	.048	-.035	-.369
135	2323	-.158	.048	-.006	-.373
135	2324	-.144	.046	-.004	-.360
135	2325	-.167	.047	-.014	-.351
135	2326	-.190	.051	-.032	-.388
135	2327	-.160	.050	-.013	-.344
135	2328	-.152	.049	-.008	-.335
135	2329	-.182	.053	-.010	-.511
135	2330	-.193	.046	-.014	-.369
135	2331	-.162	.043	-.004	-.324
135	2332	-.156	.044	-.033	-.300
135	2333	-.176	.044	-.046	-.324
135	2334	-.193	.051	.003	-.341
135	2335	-.163	.050	.034	-.311
135	2336	-.151	.049	.047	-.298
135	2337	-.178	.052	.030	-.362
135	2338	-.161	.048	.018	-.345
135	2339	-.156	.048	.010	-.346
135	2340	-.153	.047	.004	-.401
135	2341	-.189	.055	-.005	-.457
135	2342	-.192	.054	-.007	-.413
135	2343	-.222	.098	.000	-.802
135	2344	-.229	.109	-.001	-.803
135	2345	-.186	.053	-.010	-.425
135	2346	-.228	.093	.018	-.890
135	2347	-.243	.108	-.002	-.897
135	2348	-.172	.053	-.015	-.380
135	2349	-.251	.104	.024	-.776
135	2350	-.182	.052	-.014	-.420
135	2351	-.207	.052	-.028	-.397
135	2352	-.172	.047	-.024	-.337
135	2353	-.160	.046	-.009	-.373
135	2354	-.184	.046	-.039	-.354
135	2355	-.194	.051	-.056	-.371
135	2356	-.173	.051	-.031	-.386
135	2357	-.172	.050	.028	-.394
135	2358	-.191	.059	-.001	-.526
135	2359	-.216	.058	-.039	-.474
135	2360	-.187	.059	-.002	-.751
135	2361	-.239	.115	.111	-1.041
135	2362	-.258	.114	-.005	-.902
135	2363	-.218	.059	.005	-.483
135	2364	-.248	.106	.136	-.782
135	2365	-.249	.112	.104	-.817
135	2366	-.218	.060	-.046	-.461
135	2367	-.261	.112	.001	-.903
135	2368	-.212	.071	-.011	-.617
135	2369	-.188	.068	.004	-.536
135	2370	-.208	.061	-.035	-.466
135	2371	-.211	.057	.005	-.476
135	2372	-.198	.058	-.033	-.429
135	2373	-.173	.054	-.003	-.385
135	2374	-.198	.056	-.023	-.389
135	2375	-.180	.057	-.016	-.447
135	2376	-.185	.064	-.002	-.651
135	2377	-.266	.122	.062	-.945
135	2378	-.297	.130	.017	-1.072
135	2379	-.217	.072	.060	-.796
135	2380	-.256	.111	.021	-.881
135	2381	-.281	.125	.044	-1.019
135	2382	-.221	.076	.043	-.919
135	2383	-.241	.102	.092	-.957
135	2384	-.243	.109	.047	-.985

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
135	2385	-.223	.079	.076	-.561	135	3117	-.290	.128	.072	-.789	135	3167	-.018	.145	.341	-.714
135	2386	-.230	.089	.124	-.680	135	3118	.091	.106	.505	-.383	135	3168	-.147	.185	.382	-.889
135	2387	-.217	.087	.121	-.651	135	3119	.095	.108	.596	-.523	135	3169	-.221	.144	.236	-.812
135	2388	-.213	.093	.141	-.651	135	3120	-.040	.092	.379	-.626	135	3170	-.229	.145	.182	-.834
135	2389	-.207	.077	.027	-.566	135	3121	.067	.148	.510	-.733	135	3171	-.354	.247	.568	-1.269
135	2390	-.197	.069	.029	-.460	135	3122	.027	.191	.555	-.977	135	3172	-.395	.228	.476	-1.223
135	2391	-.220	.077	.050	-.543	135	3123	-.272	.164	.272	-.988	135	3173	.047	.108	.483	-.392
135	2392	-.198	.073	.031	-.659	135	3124	-.197	.062	.005	-.534	135	3174	-.364	.255	.523	-1.296
135	2393	-.199	.074	-.017	-.605	135	3125	.069	.090	.391	-.509	135	3175	-.209	.072	-.014	-.607
135	2394	-.190	.072	.041	-.635	135	3126	.042	.073	.327	-.453	135	3176	-.206	.072	-.028	-.650
135	2395	-.207	.073	.045	-.534	135	3127	.031	.075	.323	-.537	135	3177	.053	.095	.584	-.453
135	2396	-.173	.071	.040	-.724	135	3128	.017	.081	.240	-.720	135	3178	.033	.086	.516	-.470
135	2397	-.186	.074	.022	-.673	135	3129	.035	.085	.389	-.402	135	3179	-.214	.152	.238	-1.048
135	2398	-.178	.075	.039	-.718	135	3130	-.101	.071	.219	-.522	135	3180	-.341	.260	.748	-1.207
135	2399	-.237	.098	.072	-.765	135	3131	.020	.128	.412	-.561	135	3181	-.386	.229	.397	-1.294
135	2400	-.227	.099	.059	-.728	135	3132	-.013	.160	.367	-.676	135	3182	-.217	.073	.094	-.719
135	2401	-.234	.085	.020	-.678	135	3133	-.092	.205	.364	-1.047	135	3183	-.211	.071	.024	-.674
135	2402	-.224	.105	.057	-.862	135	3134	-.149	.188	.463	-.858	135	3184	.037	.093	.406	-.372
135	2403	-.215	.109	.094	-.670	135	3135	-.281	.140	.221	-.847	135	3185	.032	.088	.429	-.410
135	2404	-.220	.090	.115	-.616	135	3136	-.288	.138	.202	-.822	135	3186	-.208	.148	.187	-.964
135	2405	-.216	.109	.124	-.789	135	3137	-.433	.271	.561	-1.220	135	3187	-.318	.259	.641	-1.175
135	2406	-.192	.071	.047	-.540	135	3138	-.469	.248	.407	-1.256	135	3188	-.361	.243	.535	-1.275
135	2407	-.193	.071	.041	-.548	135	3139	-.194	.061	-.007	-.544	135	3189	-.212	.065	.005	-.597
135	2408	-.179	.069	.111	-.425	135	3140	.015	.065	.242	-.363	135	3190	-.206	.066	.007	-.613
135	2409	-.186	.070	.005	-.593	135	3141	-.007	.083	.236	-.556	135	3191	.028	.082	.436	-.395
135	2410	-.195	.073	.036	-.517	135	3142	-.116	.073	.111	-.626	135	3192	-.001	.064	.224	-.412
135	2411	-.213	.079	-.005	-.529	135	3143	-.018	.133	.305	-.627	135	3193	-.002	.061	.267	-.307
135	2412	-.236	.096	-.016	-.759	135	3144	-.146	.181	.437	-.791	135	3194	-.100	.063	.157	-.468
135	2413	-.311	.137	-.025	-1.043	135	3145	-.265	.150	.225	-.913	135	3195	.005	.109	.363	-.642
135	2414	-.302	.121	-.025	-.794	135	3146	-.201	.066	.013	-.550	135	3196	-.095	.158	.467	-.878
135	2415	-.163	.071	.031	-.497	135	3147	-.196	.066	-.009	-.555	135	3197	-.194	.134	.169	-1.007
135	2416	-.176	.101	.049	-.829	135	3148	.075	.106	.494	-.418	135	3198	-.201	.136	.163	-1.010
135	2417	-.126	.066	.107	-.474	135	3149	.049	.098	.483	-.455	135	3199	-.327	.236	.465	-1.494
135	2418	-.063	.044	.119	-.288	135	3150	-.253	.153	.143	-.834	135	3200	-.218	.072	-.015	-.626
135	3101	-.227	.075	.026	-.638	135	3151	-.415	.259	.588	-1.340	135	3201	-.210	.067	.000	-.545
135	3102	.171	.125	.639	-.366	135	3152	-.433	.237	.439	-1.301	135	3202	.030	.082	.453	-.325
135	3103	.099	.096	.560	-.295	135	3153	-.403	.259	.561	-1.588	135	3203	.021	.069	.323	-.286
135	3104	.032	.079	.410	-.333	135	3154	-.207	.061	.007	-.667	135	3204	-.195	.130	.119	-.881
135	3105	-.203	.102	.204	-.538	135	3155	-.201	.062	-.009	-.607	135	3205	-.269	.233	.593	-1.160
135	3106	.042	.131	.449	-.616	135	3156	.064	.107	.551	-.490	135	3206	-.329	.221	.551	-1.188
135	3107	-.191	.196	.511	-.911	135	3157	.048	.092	.462	-.374	135	3207	-.217	.080	.037	-.529
135	3108	-.372	.108	-.037	-.846	135	3158	-.234	.146	.165	-.997	135	3208	-.212	.079	.027	-.517
135	3109	-.381	.107	-.054	-.852	135	3159	-.391	.253	.742	-1.384	135	3209	.028	.077	.433	-.267
135	3110	-.432	.244	.470	-1.170	135	3160	-.414	.231	.360	-1.312	135	3210	.013	.065	.317	-.223
135	3111	.115	.113	.558	-.339	135	3161	-.208	.062	.009	-.547	135	3211	-.178	.118	.115	-.734
135	3112	-.400	.267	.511	-1.203	135	3162	-.202	.062	-.017	-.511	135	3212	-.236	.234	.559	-1.244
135	3113	-.208	.070	-.003	-.638	135	3163	.035	.088	.477	-.402	135	3213	-.256	.213	.342	-1.183
135	3114	-.314	.126	.061	-.799	135	3164	.006	.067	.246	-.355	135	3214	-.014	.077	.510	-.232
135	3115	-.458	.257	.327	-1.315	135	3165	.001	.077	.265	-.460	135	3215	-.175	.211	.507	-1.108
135	3116	-.201	.066	-.011	-.562	135	3166	-.095	.078	.219	-.557	135	3216	-.231	.088	-.017	-.694

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
135	3217	-.222	.084	-.011	-.710
135	3218	-.003	.066	.298	-.306
135	3219	-.024	.049	.183	-.264
135	3220	-.053	.042	.100	-.240
135	3221	-.030	.049	.179	-.276
135	3222	-.136	.057	.060	-.465
135	3223	-.002	.067	.216	-.366
135	3224	-.064	.112	.394	-.776
135	3225	-.133	.115	.301	-.816
135	3226	-.169	.100	.098	-.709
135	3227	-.169	.099	.060	-.687
135	3228	-.173	.100	.064	-.667
135	3229	-.265	.178	.310	-1.040
135	3230	-.260	.088	-.032	-.727
135	3231	-.246	.089	-.009	-.720
135	3232	-.018	.070	.306	-.240
135	3233	-.022	.058	.244	-.221
135	3234	-.156	.086	.047	-.633
135	3235	-.196	.156	.295	-.938
135	3236	-.262	.146	.173	-.949
135	3237	-.304	.125	-.034	-1.079
135	3238	-.310	.125	-.034	-1.057
135	3239	-.038	.061	.262	-.242
135	3240	-.053	.051	.168	-.225
135	3241	-.180	.127	.299	-.809
135	3242	-.235	.119	.118	-.806
135	3243	-.341	.133	-.015	-.896
135	3244	-.349	.135	-.021	-.911
135	3245	-.080	.045	.073	-.246
135	3246	-.077	.039	.078	-.211
135	3247	-.060	.037	.093	-.200
135	3248	-.104	.046	.060	-.274
135	3249	-.025	.045	.158	-.235
135	3250	-.037	.058	.244	-.366
135	3251	-.073	.068	.176	-.573
135	3252	-.102	.074	.100	-.633
135	3253	-.162	.095	.115	-.567
135	3254	-.233	.098	.002	-.678
135	3255	-.092	.086	.236	-.560
135	3256	-.017	.062	.189	-.412
135	3257	-.101	.059	.061	-.391
135	3258	-.041	.036	.076	-.209
135	3259	-.021	.049	.187	-.196
135	3260	-.085	.046	.071	-.290
135	3261	-.042	.038	.079	-.199
135	3262	-.120	.060	.042	-.413
135	3263	.014	.038	.218	-.174
135	3264	.000	.046	.207	-.220
135	3265	-.139	.079	.087	-.499
135	3266	-.020	.057	.132	-.149
135	3267	-.059	.035	.051	-.193
135	4301	.335	.161	.838	-.506
135	4302	.430	.143	.990	-.025
135	4303	.319	.146	.805	-.134
135	4304	.262	.138	.754	-.122
135	4305	.258	.140	.794	-.147
135	4306	.223	.150	.861	-.298
135	4307	.217	.139	.714	-.162
135	4308	.266	.148	.783	-.117
135	4309	.369	.157	.878	-.040
135	4310	-.102	.260	.819	-.838
135	4311	.219	.234	.931	-.694
135	4312	.146	.243	.861	-1.234
135	4313	.426	.161	1.107	-.074
135	4314	-.368	.135	.238	-.952
135	4315	.135	.259	.835	-.939
135	4316	.034	.265	.722	-.932
135	4317	.426	.157	.989	-.029
135	4318	.433	.148	1.072	.061
135	4319	.449	.152	1.029	.090
135	4320	.444	.150	1.003	.093
135	4321	.449	.153	1.005	.085
135	4322	.482	.160	1.031	.016
135	4323	.466	.160	1.033	.036
135	4324	.470	.160	1.049	.045
135	4325	.477	.160	1.024	.062
135	4326	.433	.165	1.055	.052
135	4327	.439	.167	1.082	.032
135	4328	.446	.167	1.110	.033
135	4329	.365	.161	.966	-.073
135	4330	.379	.150	1.000	-.080
135	4331	.418	.152	1.064	-.006
135	4332	.386	.140	.976	.002
135	4333	.407	.145	1.005	.025
135	4334	.357	.141	.971	-.020
135	4335	.359	.140	.980	-.036
135	4336	.405	.154	1.035	-.047
135	4337	.306	.129	.826	-.073
135	4338	.290	.129	.745	-.022
135	4339	.310	.139	.801	-.056
135	4340	.325	.139	.856	-.061
135	4341	-.390	.146	.078	-1.107
135	4342	-.407	.172	.480	-1.088
135	4343	-.097	.286	.954	-1.378
135	4344	-.018	.280	.819	-1.288
135	4345	.425	.145	1.052	-.135
135	4346	.150	.253	.882	-.696
135	4347	.005	.243	.861	-1.023
135	4348	.385	.144	.918	.016
135	4349	.096	.246	.752	-.935
135	4350	.361	.140	.956	.027
135	4351	.414	.139	.904	.047
135	4352	.423	.138	.961	.062
135	4353	.404	.136	.998	.064
135	4354	.358	.135	.964	.039
135	4355	.286	.124	.799	-.047
135	4356	.233	.115	.707	-.083
135	4357	.281	.120	.738	-.106
135	4358	-.394	.180	.315	-1.386
135	4359	.367	.134	.907	.028
135	4360	-.395	.167	-.008	-1.091
135	4361	.103	.253	.887	-1.051
135	4362	.026	.236	.740	-.797
135	4363	.351	.137	.868	-.097
135	4364	.081	.246	.856	-1.005
135	4365	-.003	.243	.771	-1.007
135	4366	.332	.132	.945	-.024
135	4367	.145	.207	.676	-.862
135	4368	.304	.131	.784	-.027
135	4369	.332	.133	.824	.031
135	4370	.335	.132	.799	.048
135	4371	.335	.124	.873	.052
135	4372	.252	.124	.800	-.027
135	4373	.227	.108	.720	-.103
135	4374	.176	.098	.613	-.133
135	4375	.183	.111	.616	-.257
135	4376	-.464	.180	.132	-1.364
135	4377	.178	.184	.789	-.953
135	4378	.047	.210	.735	-.907
135	4379	.305	.116	.807	-.020
135	4380	.171	.164	.672	-.858
135	4381	.048	.195	.615	-.852
135	4382	.274	.114	.809	-.051
135	4383	.127	.160	.674	-.969
135	4384	.055	.184	.652	-1.015
135	4385	.253	.113	.772	-.020
135	4386	.247	.107	.705	-.040
135	4387	.264	.115	.751	-.020
135	4388	.271	.115	.755	-.028
135	4389	.276	.113	.716	-.014
135	4390	.246	.103	.672	-.046
135	4391	.175	.089	.695	-.040
135	4392	.136	.080	.533	-.056
135	4393	.081	.072	.428	-.153
135	4394	.089	.074	.463	-.142
135	4395	.098	.077	.480	-.162
135	4396	.098	.093	.564	-.195
135	4397	-.474	.177	-.054	-1.320
135	4398	-.488	.186	.226	-1.398
135	4399	.141	.135	.560	-.579

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
135	4400	.074	.149	.579	-.659
135	4401	.240	.116	.743	-.043
135	4402	.118	.123	.638	-.434
135	4403	.056	.112	.526	-.520
135	4404	.186	.096	.685	-.118
135	4405	.080	.105	.565	-.331
135	4406	.187	.097	.767	-.139
135	4407	.185	.092	.555	-.200
135	4408	.172	.088	.549	-.078
135	4409	.148	.072	.457	-.074
135	4410	.096	.061	.381	-.115
135	4411	.094	.058	.345	-.135
135	4412	.051	.057	.304	-.179
135	4413	.073	.077	.411	-.187
135	4414	-.520	.206	-.004	-1.515
135	4415	.083	.097	.541	-.601
135	4416	-.371	.162	.131	-1.277
135	4417	.071	.080	.417	-.342
135	4418	-.156	.097	.202	-.620
135	4419	.166	.084	.572	-.047
135	4420	.183	.090	.628	-.025
135	4421	.208	.090	.670	.018
135	4422	.184	.084	.579	-.010
135	4423	.069	.061	.369	-.158
135	4424	.193	.081	.536	-.005
135	9901	.075	.054	.373	-.079
135	9902	.077	.052	.309	-.063
135	9903	.042	.039	.231	-.090
135	9904	.053	.055	.268	-.107
135	9905	-.147	.074	.079	-.545
150	110	-.210	.060	-.007	-.488
150	111	-.229	.071	-.002	-.565
150	112	-.218	.064	-.038	-.539
150	130	-.080	.125	.510	-1.076
150	140	-.184	.129	.688	-.182
150	141	-.150	.114	.258	-.504
150	142	.320	.149	.884	-.118
150	143	-.311	.115	.489	-.723
150	144	.365	.157	.878	-.118
150	145	-.273	.174	.560	-.784
150	220	-.244	.098	.035	-.789
150	221	-.294	.131	.051	-.993
150	230	-.272	.152	.313	-.876
150	231	.101	.143	.645	-.541
150	310	-.159	.072	.055	-.586
150	320	-.219	.057	-.065	-.461
150	321	-.221	.056	-.062	-.457
150	322	-.251	.056	-.055	-.473
150	323	-.254	.063	-.071	-.568
150	324	-.237	.057	-.087	-.428
150	325	-.237	.058	-.067	-.470
150	330	-.052	.102	.316	-.571
150	331	-.286	.073	-.006	-.593
150	332	.342	.148	.811	-.104
150	410	-.422	.089	-.119	-.746
150	411	-.475	.114	-.152	-.987
150	440	.450	.172	1.055	-.029
150	441	.080	.231	.755	-.825
150	901	-.022	.091	.369	-.367
150	902	-.150	.064	.228	-.459
150	903	-.218	.089	.159	-.508
150	904	-.311	.089	-.034	-.711
150	905	-.306	.068	-.096	-.581
150	906	-.331	.074	-.051	-.635
150	907	-.372	.083	-.065	-.679
150	908	-.462	.099	-.122	-.778
150	909	-.251	.082	.047	-.705
150	910	-.250	.088	.049	-.562
150	911	-.306	.090	-.029	-.620
150	912	-.306	.045	-.173	-.443
150	1101	-.226	.063	-.035	-.582
150	1102	-.216	.056	-.061	-.469
150	1103	-.216	.054	-.069	-.485
150	1104	-.222	.053	-.063	-.467
150	1105	-.225	.058	-.061	-.470
150	1106	-.217	.056	-.034	-.531
150	1107	-.195	.051	.001	-.529
150	1108	-.204	.056	-.007	-.625
150	1109	-.197	.060	-.004	-.475
150	1110	-.201	.062	-.015	-.535
150	1111	-.204	.057	-.029	-.619
150	1112	-.203	.058	-.023	-.483
150	1113	-.223	.065	-.037	-.634
150	1114	-.213	.056	-.034	-.574
150	1115	-.206	.056	-.036	-.700
150	1116	-.229	.064	-.005	-.606
150	1117	-.208	.052	-.056	-.442
150	1118	-.209	.056	.003	-.464
150	1119	-.210	.052	-.019	-.430
150	1120	-.217	.052	-.023	-.409
150	1121	-.204	.050	-.045	-.388
150	1122	-.207	.050	-.040	-.381
150	1123	-.205	.051	-.017	-.390
150	1124	-.224	.061	-.039	-.471
150	1125	-.208	.053	-.049	-.435
150	1126	-.213	.053	-.063	-.441
150	1127	-.215	.052	-.078	-.452
150	1128	-.219	.054	-.079	-.513
150	1129	-.214	.049	-.014	-.489
150	1130	-.225	.052	-.017	-.459
150	1131	-.216	.047	-.045	-.416
150	1132	-.219	.046	-.063	-.418
150	1133	-.211	.049	-.071	-.454
150	1134	-.210	.048	-.077	-.455
150	1135	-.207	.049	-.052	-.471
150	1136	-.217	.053	-.030	-.527
150	1137	-.213	.055	-.030	-.512
150	1138	-.220	.054	-.036	-.456
150	1139	-.216	.064	-.019	-.620
150	1140	-.208	.056	-.049	-.578
150	1141	-.206	.050	-.040	-.526
150	1142	-.219	.052	-.054	-.540
150	1143	-.206	.046	-.038	-.419
150	1144	-.210	.045	-.032	-.555
150	1145	-.205	.049	-.059	-.454
150	1146	-.214	.060	-.033	-.636
150	1147	-.211	.064	-.040	-.720
150	1148	-.201	.055	-.023	-.472
150	1149	-.197	.057	-.011	-.531
150	1150	-.220	.052	-.044	-.545
150	1151	-.218	.055	-.052	-.459
150	1152	-.222	.055	-.032	-.486
150	1153	-.222	.054	-.078	-.531
150	1154	-.214	.059	-.049	-.603
150	1155	-.211	.064	-.028	-.689
150	1156	-.202	.057	-.037	-.486
150	1157	-.203	.055	.030	-.418
150	1158	-.232	.053	-.087	-.512
150	1159	-.226	.055	-.057	-.533
150	1160	-.232	.055	-.037	-.522
150	1161	-.218	.063	-.004	-.632
150	1162	-.232	.069	-.016	-.760
150	1163	-.211	.060	-.012	-.569
150	1164	-.219	.059	-.018	-.545
150	1165	-.218	.061	-.018	-.594
150	1166	-.236	.061	-.047	-.587
150	1167	-.221	.055	-.067	-.536
150	1168	-.229	.053	-.063	-.505
150	1169	-.237	.052	-.052	-.567
150	1170	-.252	.056	-.002	-.788
150	1171	-.251	.059	-.057	-.586
150	1172	-.257	.058	-.051	-.663
150	1173	-.214	.059	-.045	-.570
150	1174	-.255	.057	-.063	-.503
150	1175	-.228	.063	.024	-.624
150	1176	-.241	.068	.012	-.663
150	1177	-.216	.059	-.037	-.497
150	1178	-.229	.061	-.042	-.557
150	1179	-.246	.053	-.091	-.493
150	1180	-.249	.055	-.077	-.470

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	1181	-.248	.060	-.028	-.546
150	1182	-.253	.073	-.049	-.615
150	1183	-.252	.077	-.048	-.639
150	1184	-.239	.069	-.018	-.550
150	1185	-.246	.071	-.035	-.762
150	1186	-.264	.064	-.112	-.683
150	1187	-.264	.062	-.052	-.502
150	1188	-.275	.064	-.037	-.533
150	1189	-.282	.078	-.030	-.632
150	1190	-.296	.083	-.042	-.776
150	1191	-.276	.077	-.026	-.663
150	1192	-.286	.077	-.066	-.680
150	1193	-.288	.079	-.047	-.885
150	1194	-.317	.090	-.084	-.868
150	1195	-.293	.078	-.021	-1.046
150	1196	-.292	.069	-.070	-.689
150	1197	-.288	.068	-.071	-.765
150	1198	-.309	.073	-.105	-.755
150	1199	-.295	.072	-.052	-.751
150	1200	-.329	.085	-.054	-.675
150	1201	-.325	.082	-.093	-.777
150	1202	-.315	.079	-.082	-.732
150	1203	-.309	.077	-.086	-.732
150	1204	-.324	.079	-.044	-.704
150	1205	-.287	.070	-.095	-.767
150	1206	-.303	.072	-.082	-.674
150	1207	-.335	.086	-.105	-1.017
150	1208	-.351	.089	-.103	-1.006
150	1209	-.331	.088	-.102	-.765
150	1210	-.348	.089	-.126	-.779
150	1211	-.312	.083	-.057	-.718
150	1212	-.307	.078	-.068	-.817
150	1213	-.334	.094	-.095	-.854
150	1214	-.364	.096	-.053	-.814
150	1215	-.326	.095	-.068	-.855
150	1216	-.343	.099	-.097	-.868
150	1217	-.343	.100	-.074	-1.046
150	1218	-.330	.096	-.062	-.830
150	1219	-.335	.097	-.088	-.987
150	1220	-.345	.096	-.105	-.893
150	1221	-.351	.103	-.069	-.969
150	1222	-.369	.111	-.044	-.998
150	1223	-.338	.096	-.055	-.806
150	1224	-.317	.086	-.025	-.688
150	1225	-.325	.089	-.079	-.797
150	1226	-.330	.090	-.072	-.707
150	1227	-.344	.095	-.053	-.753
150	1228	-.347	.093	-.067	-.730
150	1229	-.326	.092	-.010	-.849
150	1230	-.370	.092	-.119	-.897
150	1231	-.377	.095	-.114	-.951
150	1232	-.359	.093	-.102	-.975
150	1233	-.375	.098	-.151	-.856
150	1234	-.359	.096	-.067	-.754
150	1235	-.301	.094	-.065	-.727
150	1236	-.307	.099	-.057	-.778
150	1237	-.395	.115	-.100	-.998
150	1238	-.399	.125	-.091	-1.077
150	1239	-.377	.113	-.109	-1.142
150	1240	-.380	.115	-.117	-1.048
150	1241	-.268	.101	.005	-1.026
150	1242	-.263	.102	.007	-1.023
150	1243	-.418	.127	-.098	-1.071
150	1244	-.424	.127	-.052	-1.046
150	1245	-.448	.148	-.064	-1.233
150	1246	-.408	.128	-.069	-1.127
150	1247	-.397	.130	.045	-1.265
150	1248	-.355	.115	.025	-.953
150	1249	-.308	.094	.011	-.841
150	1250	-.247	.078	.042	-.608
150	1251	-.219	.071	.024	-.549
150	1252	-.217	.073	.046	-.545
150	1253	-.210	.083	.057	-.631
150	1254	-.227	.090	.067	-.736
150	1255	-.166	.061	.024	-.504
150	1256	-.178	.066	.058	-.465
150	1257	-.250	.090	-.030	-.908
150	1258	-.173	.072	.072	-.608
150	1259	-.171	.064	.034	-.501
150	1260	-.118	.078	.273	-.478
150	1261	-.358	.116	.306	-.933
150	1262	-.162	.055	.025	-.469
150	1263	-.008	.067	.273	-.287
150	1264	-.188	.075	.103	-.585
150	1265	-.082	.050	.095	-.361
150	1266	-.218	.074	-.022	-.579
150	1267	-.380	.131	-.060	-1.073
150	1901	-.431	.097	-.138	-.751
150	1902	-.427	.108	-.022	-.827
150	1903	-.346	.086	-.080	-.605
150	1904	-.303	.150	.185	-.864
150	1905	-.226	.086	.091	-.571
150	1906	-.054	.112	.385	-.409
150	1907	-.064	.073	.176	-.325
150	1908	-.012	.114	.370	-.354
150	1909	-.353	.090	.027	-.635
150	1910	-.257	.116	.143	-.729
150	1911	-.227	.085	.093	-.769
150	1912	-.162	.050	-.005	-.317
150	2301	-.218	.074	-.017	-.602
150	2302	-.131	.069	.065	-.659
150	2303	-.234	.087	-.038	-.922
150	2304	-.241	.098	-.019	-.805
150	2305	-.275	.067	-.083	-.665
150	2306	-.255	.061	-.095	-.501
150	2307	-.224	.056	-.047	-.424
150	2308	-.208	.053	-.036	-.405
150	2309	-.232	.054	-.056	-.447
150	2310	-.242	.060	-.012	-.458
150	2311	-.217	.059	-.040	-.510
150	2312	-.212	.062	-.009	-.495
150	2313	-.244	.071	-.038	-.781
150	2314	-.265	.058	-.083	-.510
150	2315	-.233	.064	-.031	-.553
150	2316	-.218	.060	-.033	-.447
150	2317	-.265	.064	-.065	-.546
150	2318	-.269	.058	-.106	-.517
150	2319	-.233	.054	-.088	-.438
150	2320	-.218	.052	-.078	-.410
150	2321	-.252	.052	-.106	-.450
150	2322	-.253	.051	-.099	-.484
150	2323	-.234	.052	-.085	-.436
150	2324	-.221	.051	-.071	-.391
150	2325	-.238	.049	-.093	-.408
150	2326	-.258	.057	-.092	-.486
150	2327	-.226	.054	-.070	-.409
150	2328	-.209	.052	-.008	-.389
150	2329	-.255	.060	-.086	-.612
150	2330	-.268	.053	-.114	-.477
150	2331	-.232	.050	-.092	-.404
150	2332	-.221	.048	-.082	-.396
150	2333	-.243	.049	-.104	-.424
150	2334	-.258	.050	-.104	-.475
150	2335	-.228	.049	-.092	-.431
150	2336	-.214	.048	-.078	-.389
150	2337	-.242	.050	-.104	-.459
150	2338	-.220	.046	-.077	-.372
150	2339	-.215	.046	-.071	-.370
150	2340	-.212	.051	-.052	-.396
150	2341	-.249	.056	-.074	-.459
150	2342	-.259	.051	-.087	-.451
150	2343	-.241	.057	-.049	-.470
150	2344	-.229	.053	-.040	-.445
150	2345	-.263	.051	-.104	-.461
150	2346	-.242	.058	-.044	-.509
150	2347	-.244	.060	-.036	-.551
150	2348	-.242	.055	-.085	-.496
150	2349	-.271	.064	-.079	-.539
150	2350	-.245	.054	-.074	-.465
150	2351	-.267	.052	-.090	-.498

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	2352	-.238	.048	-.074	-.431
150	2353	-.243	.051	-.078	-.406
150	2354	-.262	.051	-.081	-.452
150	2355	-.267	.055	-.066	-.472
150	2356	-.239	.053	-.049	-.452
150	2357	-.238	.053	-.080	-.460
150	2358	-.258	.056	-.074	-.488
150	2359	-.283	.055	-.116	-.498
150	2360	-.259	.055	-.067	-.476
150	2361	-.248	.061	-.047	-.522
150	2362	-.248	.059	-.050	-.545
150	2363	-.274	.053	-.111	-.494
150	2364	-.256	.062	-.040	-.553
150	2365	-.245	.061	-.040	-.568
150	2366	-.276	.057	-.102	-.555
150	2367	-.268	.068	-.063	-.671
150	2368	-.280	.069	-.061	-.603
150	2369	-.259	.068	-.050	-.566
150	2370	-.292	.069	-.113	-.640
150	2371	-.301	.066	-.097	-.589
150	2372	-.288	.068	-.083	-.662
150	2373	-.262	.065	-.078	-.556
150	2374	-.288	.065	-.097	-.566
150	2375	-.269	.062	-.080	-.528
150	2376	-.283	.066	-.083	-.542
150	2377	-.280	.076	-.037	-.806
150	2378	-.306	.073	-.033	-.582
150	2379	-.275	.065	-.091	-.526
150	2380	-.288	.082	-.025	-.764
150	2381	-.288	.078	-.080	-.838
150	2382	-.276	.069	-.042	-.552
150	2383	-.278	.084	-.028	-.785
150	2384	-.287	.084	-.076	-.738
150	2385	-.275	.070	-.036	-.607
150	2386	-.262	.076	-.005	-.590
150	2387	-.271	.075	-.018	-.565
150	2388	-.269	.074	-.009	-.570
150	2389	-.287	.078	-.041	-.712
150	2390	-.306	.081	-.047	-.735
150	2391	-.317	.075	-.084	-.734
150	2392	-.314	.077	-.116	-.875
150	2393	-.323	.079	-.114	-.782
150	2394	-.310	.075	-.097	-.716
150	2395	-.332	.088	-.102	-.805
150	2396	-.302	.079	-.109	-.742
150	2397	-.318	.082	-.117	-.755
150	2398	-.315	.084	-.114	-.775
150	2399	-.256	.088	-.008	-.705
150	2400	-.255	.088	-.016	-.771
150	2401	-.252	.082	-.012	-.582
150	2402	-.211	.088	.070	-.785
150	2403	-.218	.089	.041	-.697
150	2404	-.201	.084	.229	-.567
150	2405	-.178	.087	.105	-.553
150	2406	-.160	.077	.084	-.511
150	2407	-.149	.079	.105	-.465
150	2408	-.159	.079	.109	-.501
150	2409	-.216	.089	.066	-.594
150	2410	-.227	.091	.148	-.563
150	2411	-.299	.103	.031	-.829
150	2412	-.389	.132	-.047	-1.069
150	2413	-.487	.182	-.099	-1.424
150	2414	-.443	.141	-.090	-1.294
150	2415	-.138	.072	.117	-.485
150	2416	-.316	.135	-.016	-1.000
150	2417	-.113	.073	.193	-.441
150	2418	-.086	.048	.098	-.318
150	3101	-.284	.065	-.101	-.619
150	3102	.232	.130	.825	-.163
150	3103	.128	.097	.469	-.173
150	3104	.066	.084	.448	-.209
150	3105	-.207	.088	.202	-.524
150	3106	.119	.097	.563	-.227
150	3107	.183	.150	.755	-.409
150	3108	-.160	.186	.548	-.690
150	3109	-.191	.133	.351	-.602
150	3110	.147	.244	.804	-.799
150	3111	.171	.117	.654	-.148
150	3112	.193	.254	.922	-.797
150	3113	-.243	.059	-.079	-.475
150	3114	-.041	.128	.589	-.485
150	3115	.109	.239	.856	-.736
150	3116	-.240	.057	-.068	-.502
150	3117	-.006	.139	.674	-.519
150	3118	.142	.110	.653	-.161
150	3119	.174	.117	.749	-.153
150	3120	.021	.092	.524	-.278
150	3121	.240	.120	.699	-.150
150	3122	.275	.131	.745	-.201
150	3123	.096	.176	.705	-.692
150	3124	-.266	.060	-.094	-.499
150	3125	.132	.093	.549	-.103
150	3126	.099	.076	.378	-.125
150	3127	.108	.078	.398	-.112
150	3128	.105	.079	.379	-.114
150	3129	.141	.096	.625	-.091
150	3130	-.064	.073	.175	-.326
150	3131	.162	.086	.532	-.087
150	3132	.162	.094	.515	-.149
150	3133	.181	.092	.569	-.455
150	3134	.239	.143	.735	-.350
150	3135	.024	.148	.759	-.448
150	3136	.031	.141	.639	-.447
150	3137	.177	.265	.847	-.840
150	3138	.136	.262	.843	-1.049
150	3139	-.259	.056	-.086	-.570
150	3140	.077	.071	.401	-.162
150	3141	.112	.090	.623	-.141
150	3142	-.035	.074	.314	-.255
150	3143	.156	.089	.615	-.229
150	3144	.193	.146	.732	-.396
150	3145	.055	.140	.544	-.477
150	3146	-.269	.057	-.089	-.521
150	3147	-.262	.056	-.083	-.508
150	3148	.144	.102	.625	-.113
150	3149	.111	.088	.472	-.118
150	3150	.039	.136	.502	-.436
150	3151	.115	.267	.821	-.794
150	3152	.077	.256	.793	-.778
150	3153	.171	.254	1.125	-.805
150	3154	-.269	.057	-.080	-.525
150	3155	-.263	.057	-.067	-.501
150	3156	.132	.099	.571	-.156
150	3157	.109	.085	.505	-.127
150	3158	.056	.133	.513	-.422
150	3159	.122	.266	.775	-.840
150	3160	.087	.255	.784	-.794
150	3161	-.286	.061	-.113	-.527
150	3162	-.275	.060	-.096	-.503
150	3163	.099	.083	.447	-.150
150	3164	.065	.065	.349	-.153
150	3165	.087	.072	.375	-.108
150	3166	-.032	.070	.325	-.290
150	3167	.159	.085	.502	-.137
150	3168	.184	.137	.653	-.466
150	3169	.062	.141	.621	-.428
150	3170	.057	.138	.571	-.461
150	3171	.129	.255	.784	-.921
150	3172	.088	.250	.705	-.887
150	3173	.108	.094	.503	-.164
150	3174	.123	.260	.808	-.832
150	3175	-.288	.061	-.111	-.556
150	3176	-.280	.061	-.101	-.554
150	3177	.103	.096	.551	-.157
150	3178	.088	.087	.446	-.152
150	3179	.053	.133	.673	-.427
150	3180	.125	.244	.879	-.753
150	3181	.095	.243	.827	-.789
150	3182	-.301	.064	-.082	-.561
150	3183	-.295	.064	-.090	-.543

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	3184	.077	.088	.447	-.192
150	3185	.080	.081	.507	-.155
150	3186	.043	.126	.571	-.420
150	3187	.113	.240	.800	-.861
150	3188	.072	.237	.784	-.916
150	3189	-.314	.075	-.125	-.639
150	3190	-.306	.074	-.111	-.635
150	3191	.079	.085	.477	-.127
150	3192	.047	.065	.324	-.138
150	3193	.061	.068	.352	-.132
150	3194	-.048	.069	.264	-.358
150	3195	.134	.084	.456	-.222
150	3196	.162	.132	.628	-.432
150	3197	.030	.121	.514	-.352
150	3198	.025	.118	.457	-.389
150	3199	.058	.214	.641	-.727
150	3200	-.321	.071	-.099	-.606
150	3201	-.321	.073	-.113	-.664
150	3202	.054	.081	.367	-.183
150	3203	.051	.074	.346	-.173
150	3204	.021	.121	.431	-.491
150	3205	.098	.215	.706	-.671
150	3206	.054	.222	.768	-.785
150	3207	-.344	.090	-.146	-.939
150	3208	-.337	.089	-.140	-.921
150	3209	.041	.083	.479	-.257
150	3210	.033	.075	.441	-.230
150	3211	.010	.111	.429	-.337
150	3212	.088	.189	.600	-.556
150	3213	.048	.212	.831	-.844
150	3214	.016	.078	.381	-.217
150	3215	.069	.196	.669	-.760
150	3216	-.398	.104	-.099	-1.101
150	3217	-.376	.099	-.062	-.785
150	3218	.011	.074	.389	-.235
150	3219	-.012	.055	.317	-.194
150	3220	-.038	.049	.197	-.188
150	3221	-.008	.052	.242	-.154
150	3222	-.110	.059	.107	-.365
150	3223	.053	.057	.361	-.138
150	3224	.065	.097	.503	-.293
150	3225	.010	.124	.465	-.520
150	3226	-.031	.112	.403	-.422
150	3227	-.037	.100	.350	-.399
150	3228	-.036	.102	.359	-.419
150	3229	.016	.183	.546	-.743
150	3230	-.431	.116	-.160	-1.010
150	3231	-.419	.118	-.129	-1.019
150	3232	-.026	.070	.307	-.282
150	3233	-.029	.065	.246	-.265
150	3234	-.067	.062	.243	-.363
150	3235	-.016	.152	.479	-.633
150	3236	-.078	.142	.350	-.619
150	3237	-.525	.153	-.037	-1.252
150	3238	-.519	.152	-.146	-1.210
150	3239	-.062	.064	.203	-.252
150	3240	-.066	.057	.165	-.257
150	3241	-.083	.110	.255	-.936
150	3242	-.108	.103	.129	-.857
150	3243	-.503	.151	.007	-1.114
150	3244	-.524	.148	.001	-1.098
150	3245	-.087	.046	.120	-.248
150	3246	-.084	.038	.050	-.235
150	3247	-.067	.034	.052	-.189
150	3248	-.099	.040	.019	-.332
150	3249	-.008	.046	.166	-.191
150	3250	.003	.055	.216	-.335
150	3251	-.023	.063	.158	-.417
150	3252	-.043	.068	.131	-.446
150	3253	-.083	.088	.134	-.543
150	3254	-.348	.134	.011	-.989
150	3255	-.025	.067	.180	-.499
150	3256	.008	.052	.168	-.302
150	3257	-.155	.081	.120	-.527
150	3258	-.031	.039	.118	-.153
150	3259	-.017	.047	.183	-.287
150	3260	-.073	.048	.102	-.275
150	3261	-.029	.042	.129	-.246
150	3262	-.086	.066	.129	-.522
150	3263	.020	.041	.219	-.131
150	3264	.016	.045	.206	-.175
150	3265	-.188	.069	.016	-.634
150	3266	-.016	.038	.166	-.129
150	3267	-.050	.036	.108	-.195
150	4301	.414	.158	1.111	-.081
150	4302	.339	.158	.944	-.550
150	4303	.312	.156	.892	-.311
150	4304	.222	.138	.722	-.129
150	4305	.195	.130	.730	-.137
150	4306	.030	.137	.599	-.417
150	4307	.116	.114	.618	-.250
150	4308	.169	.122	.786	-.347
150	4309	-.324	.150	.885	-.135
150	4310	-.288	.102	.586	-.783
150	4311	.413	.163	.962	-.174
150	4312	.409	.165	1.155	-.125
150	4313	.360	.160	1.107	-.103
150	4314	-.278	.087	-.034	-.870
150	4315	.420	.167	1.051	-.193
150	4316	.407	.178	1.065	-.295
150	4317	.422	.169	1.146	-.030
150	4318	.447	.174	1.033	-.038
150	4319	.451	.170	1.042	-.012
150	4320	.455	.167	1.025	.039
150	4321	.406	.154	.980	.015
150	4322	.407	.146	.924	.057
150	4323	.377	.142	.851	.031
150	4324	.373	.140	.828	.032
150	4325	.414	.153	.992	.036
150	4326	.352	.138	.917	.015
150	4327	.355	.139	.956	.020
150	4328	.387	.150	1.035	.006
150	4329	.227	.128	.668	-.121
150	4330	.206	.125	.725	-.136
150	4331	.286	.143	.809	-.122
150	4332	.299	.153	.798	-.022
150	4333	.328	.142	.864	-.026
150	4334	.251	.114	.660	-.069
150	4335	.261	.120	.709	-.074
150	4336	.550	.145	.838	-.105
150	4337	.214	.110	.621	-.126
150	4338	.225	.108	.648	-.155
150	4339	.266	.130	.723	-.173
150	4340	.264	.126	.909	-.093
150	4341	-.266	.078	-.078	-.797
150	4342	-.272	.084	-.017	-.839
150	4343	.391	.172	.914	-.348
150	4344	.364	.188	.975	-.446
150	4345	.414	.162	.923	.011
150	4346	.390	.154	.950	-.148
150	4347	.363	.163	.869	-.282
150	4348	.399	.150	.890	-.029
150	4349	.359	.152	.939	-.228
150	4350	.389	.150	1.008	-.071
150	4351	.393	.153	1.024	.001
150	4352	.372	.144	.997	-.006
150	4353	.324	.132	.774	-.036
150	4354	.211	.119	.666	-.103
150	4355	.231	.109	.671	-.106
150	4356	.184	.099	.563	-.140
150	4357	.208	.110	.663	-.072
150	4358	-.286	.086	-.035	-.902
150	4359	.370	.138	1.066	-.006
150	4360	-.278	.080	-.072	-1.192
150	4361	.333	.154	.900	-.335
150	4362	.318	.153	.990	-.416
150	4363	.376	.142	.882	-.001
150	4364	.314	.152	.828	-.473
150	4365	.305	.162	.819	-.477
150	4366	.334	.138	.825	-.040

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	4367	.290	.138	.803	-.253
150	4368	.299	.133	.862	-.131
150	4369	.320	.130	.876	-.117
150	4370	.307	.121	.839	.006
150	4371	.307	.114	.714	-.015
150	4372	.160	.104	.586	-.126
150	4373	.186	.093	.570	-.100
150	4374	.138	.084	.491	-.153
150	4375	.164	.106	.692	-.140
150	4376	-.337	.100	.022	-1.026
150	4377	.288	.144	.860	-.353
150	4378	.246	.155	.932	-.458
150	4379	.288	.120	.826	-.030
150	4380	.246	.140	.785	-.412
150	4381	.228	.135	.676	-.454
150	4382	.249	.116	.855	-.088
150	4383	.217	.126	.751	-.229
150	4384	.207	.138	.733	-.326
150	4385	.244	.128	.822	-.140
150	4386	.213	.128	.812	-.091
150	4387	.243	.117	.720	-.106
150	4388	.239	.115	.719	-.077
150	4389	.229	.110	.775	-.019
150	4390	.199	.099	.681	-.028
150	4391	.110	.083	.483	-.101
150	4392	.103	.072	.457	-.073
150	4393	.053	.065	.336	-.147
150	4394	.061	.067	.362	-.149
150	4395	.075	.085	.436	-.163
150	4396	.089	.094	.521	-.190
150	4397	-.404	.118	-.114	-1.059
150	4398	-.430	.124	-.039	-1.061
150	4399	.142	.107	.706	-.343
150	4400	.106	.108	.659	-.294
150	4401	.195	.117	.688	-.090
150	4402	.092	.102	.551	-.279
150	4403	.065	.089	.604	-.343
150	4404	.162	.103	.655	-.093
150	4405	.066	.097	.572	-.371
150	4406	.130	.093	.590	-.171
150	4407	.135	.082	.561	-.089
150	4408	.134	.078	.521	-.080
150	4409	.126	.069	.466	-.052
150	4410	.080	.065	.421	-.097
150	4411	.077	.064	.379	-.111
150	4412	.042	.060	.328	-.165
150	4413	.059	.081	.411	-.219
150	4414	-.499	.158	.165	-1.280
150	4415	.056	.081	.467	-.537
150	4416	-.396	.144	.061	-1.180
150	4417	.049	.067	.369	-.341
150	4418	-.196	.108	.179	-.776
150	4419	.133	.078	.433	-.097
150	4420	.152	.085	.496	-.051
150	4421	.174	.089	.540	-.029
150	4422	.153	.086	.544	-.040
150	4423	.048	.064	.433	-.117
150	4424	.172	.091	.553	-.067
150	9901	.050	.044	.288	-.069
150	9902	.056	.043	.234	-.055
150	9903	.032	.036	.176	-.065
150	9904	.011	.050	.252	-.138
150	9905	-.211	.075	.014	-.534
165	110	-.185	.066	.023	-.509
165	111	-.207	.063	-.029	-.475
165	112	-.185	.056	-.040	-.494
165	130	.052	.155	.628	-.651
165	140	.161	.119	.658	-.217
165	141	-.197	.076	.087	-.579
165	142	.283	.134	.878	-.167
165	143	-.251	.081	.127	-.722
165	144	.362	.155	.956	-.069
165	145	-.280	.102	.300	-.727
165	220	-.254	.096	.012	-.844
165	221	-.282	.131	.110	-1.025
165	230	-.243	.156	.561	-.811
165	231	.166	.141	.850	-.285
165	310	-.177	.075	.102	-.506
165	320	-.202	.065	-.007	-.463
165	321	-.223	.066	-.016	-.486
165	322	-.248	.072	-.031	-.635
165	323	-.270	.081	-.036	-.658
165	324	-.208	.063	-.016	-.467
165	325	-.222	.072	.024	-.600
165	330	.058	.108	.582	-.420
165	331	-.312	.143	.573	-.960
165	332	.400	.170	1.253	-.120
165	410	-.397	.106	-.002	-.862
165	411	-.380	.113	-.029	-.795
165	440	.357	.172	1.052	-.275
165	441	-.367	.188	.437	-1.082
165	901	.082	.106	.586	-.197
165	902	-.038	.071	.308	-.276
165	903	-.055	.110	.481	-.383
165	904	-.263	.128	.330	-.864
165	905	-.293	.089	.026	-.624
165	906	-.324	.096	.146	-.820
165	907	-.393	.121	.092	-.965
165	908	-.501	.122	-.121	-.984
165	909	-.153	.098	.231	-.540
165	910	-.094	.093	.217	-.539
165	911	-.177	.111	.238	-.596
165	912	-.278	.056	-.095	-.462
165	1101	-.184	.055	-.033	-.438
165	1102	-.175	.051	-.019	-.401
165	1103	-.177	.050	-.029	-.379
165	1104	-.177	.050	-.044	-.376
165	1105	-.181	.052	-.037	-.398
165	1106	-.175	.052	-.015	-.406
165	1107	-.173	.052	-.016	-.432
165	1108	-.186	.064	.026	-.506
165	1109	-.208	.071	-.008	-.574
165	1110	-.260	.109	.003	-.718
165	1111	-.187	.053	-.031	-.408
165	1112	-.257	.105	-.016	-.725
165	1113	-.192	.054	.003	-.484
165	1114	-.183	.056	-.004	-.472
165	1115	-.223	.089	-.006	-.693
165	1116	-.190	.053	.015	-.458
165	1117	-.197	.057	.001	-.422
165	1118	-.192	.054	.001	-.403
165	1119	-.193	.052	-.029	-.410
165	1120	-.191	.051	-.049	-.416
165	1121	-.180	.047	-.049	-.341
165	1122	-.178	.047	-.048	-.351
165	1123	-.185	.050	-.015	-.372
165	1124	-.185	.053	-.038	-.405
165	1125	-.187	.046	-.053	-.359
165	1126	-.186	.047	-.050	-.366
165	1127	-.187	.046	-.058	-.361
165	1128	-.186	.047	-.053	-.360
165	1129	-.184	.049	-.040	-.398
165	1130	-.186	.049	-.043	-.382
165	1131	-.182	.048	-.049	-.361
165	1132	-.179	.047	-.040	-.349
165	1133	-.187	.046	-.033	-.355
165	1134	-.184	.047	-.026	-.362
165	1135	-.184	.049	-.008	-.352
165	1136	-.188	.051	-.000	-.369
165	1137	-.246	.085	-.022	-.659
165	1138	-.213	.076	-.026	-.624
165	1139	-.193	.052	-.027	-.392
165	1140	-.173	.048	-.012	-.370
165	1141	-.180	.051	-.017	-.379
165	1142	-.183	.052	-.029	-.405
165	1143	-.182	.050	-.027	-.405
165	1144	-.174	.051	-.012	-.487
165	1145	-.193	.052	-.034	-.386
165	1146	-.186	.052	-.006	-.415
165	1147	-.191	.053	-.020	-.419

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
165	1148	-.170	.050	-.002	-.363
165	1149	-.182	.049	-.020	-.455
165	1150	-.203	.051	-.039	-.401
165	1151	-.266	.085	-.032	-.716
165	1152	-.244	.082	-.036	-.674
165	1153	-.252	.077	-.015	-.615
165	1154	-.192	.048	-.053	-.389
165	1155	-.196	.050	-.052	-.402
165	1156	-.175	.047	-.038	-.358
165	1157	-.175	.047	-.017	-.366
165	1158	-.198	.049	-.039	-.384
165	1159	-.251	.081	-.037	-.714
165	1160	-.230	.077	-.038	-.700
165	1161	-.189	.049	-.012	-.470
165	1162	-.193	.051	-.008	-.529
165	1163	-.189	.048	-.017	-.402
165	1164	-.178	.047	-.017	-.366
165	1165	-.197	.044	-.027	-.359
165	1166	-.201	.044	-.025	-.353
165	1167	-.206	.042	-.049	-.356
165	1168	-.200	.045	-.045	-.358
165	1169	-.208	.052	-.027	-.398
165	1170	-.216	.055	-.015	-.446
165	1171	-.273	.090	-.042	-.809
165	1172	-.252	.085	-.055	-.793
165	1173	-.186	.047	-.010	-.371
165	1174	-.263	.077	-.067	-.694
165	1175	-.197	.050	-.056	-.451
165	1176	-.189	.051	-.029	-.519
165	1177	-.182	.051	-.032	-.381
165	1178	-.185	.052	-.034	-.382
165	1179	-.221	.054	-.037	-.397
165	1180	-.255	.082	.010	-.609
165	1181	-.274	.082	-.012	-.706
165	1182	-.208	.059	-.020	-.529
165	1183	-.214	.060	-.032	-.544
165	1184	-.193	.057	-.024	-.485
165	1185	-.192	.053	-.022	-.406
165	1186	-.233	.056	-.063	-.467
165	1187	-.275	.088	-.056	-.711
165	1188	-.257	.083	-.045	-.650
165	1189	-.208	.061	0.000	-.588
165	1190	-.213	.063	.004	-.641
165	1191	-.211	.061	-.044	-.569
165	1192	-.203	.060	-.048	-.547
165	1193	-.228	.065	-.049	-.533
165	1194	-.242	.067	-.082	-.660
165	1195	-.241	.061	-.066	-.618
165	1196	-.236	.060	-.017	-.509
165	1197	-.241	.058	-.071	-.450
165	1198	-.251	.061	-.075	-.608
165	1199	-.289	.084	-.064	-.765
165	1200	-.224	.068	.026	-.578
165	1201	-.245	.074	-.061	-.806
165	1202	-.231	.072	-.034	-.703
165	1203	-.239	.072	-.054	-.724
165	1204	-.266	.068	-.069	-.679
165	1205	-.297	.093	-.076	-.821
165	1206	-.298	.090	-.072	-.758
165	1207	-.273	.081	-.025	-.581
165	1208	-.270	.082	-.038	-.624
165	1209	-.265	.078	-.064	-.647
165	1210	-.273	.080	-.075	-.660
165	1211	-.288	.072	-.086	-.611
165	1212	-.296	.086	-.079	-.724
165	1213	-.281	.075	-.092	-.715
165	1214	-.266	.078	-.032	-.591
165	1215	-.289	.083	-.008	-.827
165	1216	-.257	.081	-.046	-.662
165	1217	-.257	.083	-.034	-1.204
165	1218	-.250	.080	-.039	-1.024
165	1219	-.264	.082	-.051	-1.182
165	1220	-.263	.082	-.049	-1.118
165	1221	-.271	.089	-.031	-.713
165	1222	-.290	.096	-.044	-.878
165	1223	-.273	.080	-.041	-.679
165	1224	-.263	.077	-.044	-.669
165	1225	-.274	.079	-.068	-.751
165	1226	-.275	.080	-.053	-.788
165	1227	-.294	.085	-.089	-.918
165	1228	-.285	.082	-.079	-.868
165	1229	-.307	.092	-.084	-.761
165	1230	-.304	.100	-.049	-1.182
165	1231	-.320	.105	-.058	-1.184
165	1232	-.295	.099	-.065	-1.102
165	1233	-.290	.097	-.058	-.804
165	1234	-.287	.092	-.058	-.695
165	1235	-.295	.099	-.041	-.880
165	1236	-.292	.099	-.053	-.840
165	1237	-.300	.096	-.048	-1.435
165	1238	-.303	.101	-.051	-1.413
165	1239	-.297	.096	-.058	-2.013
165	1240	-.289	.095	-.049	-1.417
165	1241	-.268	.089	-.034	-.723
165	1242	-.271	.087	-.037	-.778
165	1243	-.331	.101	-.065	-.909
165	1244	-.327	.102	-.053	-.903
165	1245	-.341	.129	-.087	-1.469
165	1246	-.317	.111	-.025	-1.230
165	1247	-.307	.103	.041	-.862
165	1248	-.284	.098	.019	-.870
165	1249	-.266	.093	.022	-.711
165	1250	-.229	.077	-.019	-.591
165	1251	-.220	.073	.030	-.554
165	1252	-.218	.077	.019	-.608
165	1253	-.232	.085	-.000	-.966
165	1254	-.202	.085	.044	-.612
165	1255	-.149	.066	.126	-.486
165	1256	-.171	.060	.019	-.524
165	1257	-.197	.080	.038	-.701
165	1258	-.147	.065	.067	-.447
165	1259	-.146	.062	.095	-.410
165	1260	-.100	.073	.262	-.411
165	1261	-.280	.121	.149	-.771
165	1262	-.123	.056	.058	-.343
165	1263	-.032	.066	.291	-.269
165	1264	-.118	.087	.206	-.556
165	1265	-.008	.055	.239	-.188
165	1266	-.181	.078	.095	-.569
165	1267	-.281	.128	.052	-.879
165	1901	-.406	.111	-.086	-.811
165	1902	-.374	.103	-.068	-.774
165	1903	-.316	.089	-.046	-.690
165	1904	-.271	.129	.327	-1.038
165	1905	-.237	.078	.123	-.635
165	1906	-.144	.099	.311	-.420
165	1907	.103	.101	.286	-.388
165	1908	.062	.115	.513	-.328
165	1909	-.322	.095	.016	-.758
165	1910	-.304	.101	.075	-.666
165	1911	-.252	.084	.069	-.703
165	1912	-.225	.044	-.085	-.378
165	2301	-.278	.101	.003	-.934
165	2302	-.154	.078	.062	-.631
165	2303	-.256	.082	-.035	-.772
165	2304	-.260	.091	-.025	-1.034
165	2305	-.280	.070	-.072	-.678
165	2306	-.277	.066	-.071	-.589
165	2307	-.233	.060	-.044	-.532
165	2308	-.218	.060	-.011	-.474
165	2309	-.240	.063	-.032	-.514
165	2310	-.223	.067	-.018	-.512
165	2311	-.284	.096	-.039	-.971
165	2312	-.260	.093	-.017	-.821
165	2313	-.265	.080	-.032	-.752
165	2314	-.248	.065	-.063	-.616
165	2315	-.282	.086	-.065	-.718
165	2316	-.261	.082	-.056	-.657
165	2317	-.286	.071	-.089	-.581
165	2318	-.303	.075	-.098	-.629

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
165	2319	-.272	.072	-.075	-.596
165	2320	-.259	.073	-.066	-.633
165	2321	-.276	.067	-.087	-.583
165	2322	-.283	.071	-.090	-.543
165	2323	-.258	.069	-.058	-.551
165	2324	-.241	.065	-.008	-.527
165	2325	-.263	.067	-.068	-.497
165	2326	-.263	.057	-.054	-.459
165	2327	-.236	.056	-.035	-.415
165	2328	-.221	.056	-.008	-.438
165	2329	-.254	.058	-.025	-.505
165	2330	-.269	.059	-.095	-.540
165	2331	-.240	.057	-.075	-.488
165	2332	-.224	.056	-.064	-.447
165	2333	-.247	.057	-.082	-.488
165	2334	-.253	.062	-.086	-.498
165	2335	-.224	.060	-.068	-.455
165	2336	-.212	.060	-.040	-.442
165	2337	-.235	.063	-.075	-.543
165	2338	-.212	.060	-.050	-.542
165	2339	-.207	.060	-.048	-.514
165	2340	-.202	.060	-.009	-.401
165	2341	-.241	.068	-.030	-.649
165	2342	-.247	.063	-.024	-.481
165	2343	-.294	.084	-.065	-.716
165	2344	-.275	.080	-.073	-.664
165	2345	-.299	.073	-.113	-.616
165	2346	-.301	.085	-.083	-.687
165	2347	-.284	.075	-.065	-.558
165	2348	-.276	.068	-.076	-.582
165	2349	-.315	.079	-.065	-.801
165	2350	-.275	.071	-.093	-.699
165	2351	-.307	.071	-.086	-.702
165	2352	-.273	.066	-.072	-.577
165	2353	-.258	.060	-.057	-.546
165	2354	-.281	.065	-.075	-.590
165	2355	-.279	.061	-.073	-.653
165	2356	-.255	.060	-.049	-.640
165	2357	-.251	.066	-.041	-.566
165	2358	-.273	.064	-.053	-.557
165	2359	-.312	.079	-.108	-.778
165	2360	-.273	.073	-.044	-.577
165	2361	-.292	.086	-.071	-.814
165	2362	-.294	.085	-.088	-.701
165	2363	-.300	.076	-.088	-.638
165	2364	-.295	.083	-.044	-.770
165	2365	-.277	.080	-.052	-.744
165	2366	-.306	.078	-.070	-.818
165	2367	-.310	.094	-.067	-.761
165	2368	-.312	.077	-.079	-.662
165	2369	-.293	.077	-.066	-.756
165	2370	-.323	.083	-.091	-1.136
165	2371	-.320	.088	-.122	-.833
165	2372	-.306	.084	-.098	-.842
165	2373	-.283	.077	-.105	-.638
165	2374	-.306	.078	-.125	-.702
165	2375	-.292	.074	-.107	-.583
165	2376	-.313	.076	-.032	-.652
165	2377	-.311	.091	-.047	-.798
165	2378	-.324	.079	-.110	-.728
165	2379	-.297	.075	-.074	-.657
165	2380	-.309	.096	.048	-.695
165	2381	-.310	.084	-.064	-.719
165	2382	-.304	.082	-.057	-.706
165	2383	-.299	.095	.023	-.797
165	2384	-.316	.093	-.040	-.862
165	2385	-.294	.085	-.015	-.628
165	2386	-.288	.090	.048	-.701
165	2387	-.285	.084	-.005	-.652
165	2388	-.296	.085	-.048	-.609
165	2389	-.304	.088	-.064	-.671
165	2390	-.325	.090	-.079	-.900
165	2391	-.335	.100	-.074	-.911
165	2392	-.343	.099	-.075	-1.055
165	2393	-.342	.099	-.069	-.971
165	2394	-.339	.096	-.069	-1.000
165	2395	-.338	.096	-.093	-.930
165	2396	-.344	.094	-.095	-.787
165	2397	-.357	.100	-.086	-.793
165	2398	-.358	.102	-.087	-.793
165	2399	-.293	.105	-.003	-.947
165	2400	-.305	.105	-.045	-.939
165	2401	-.260	.096	.025	-.643
165	2402	-.254	.109	-.004	-.801
165	2403	-.263	.107	.038	-.861
165	2404	-.232	.098	.124	-.676
165	2405	-.174	.083	.104	-.676
165	2406	-.150	.083	.117	-.653
165	2407	-.133	.071	.104	-.494
165	2408	-.145	.076	.069	-.494
165	2409	-.179	.075	.089	-.605
165	2410	-.174	.083	.125	-.531
165	2411	-.241	.118	.157	-.973
165	2412	-.346	.137	.325	-1.227
165	2413	-.377	.160	-.024	-1.335
165	2414	-.378	.132	.053	-1.215
165	2415	-.080	.064	.252	-.408
165	2416	-.209	.118	.076	-.978
165	2417	-.047	.061	.292	-.287
165	2418	-.046	.055	.153	-.364
165	3101	-.302	.093	-.061	-.754
165	3102	.268	.152	.908	-.204
165	3103	.184	.123	.729	-.226
165	3104	.127	.112	.602	-.244
165	3105	-.021	.130	.621	-.415
165	3106	.228	.137	.878	-.147
165	3107	.277	.154	1.041	-.128
165	3108	.305	.215	1.044	-.349
165	3109	.185	.221	1.043	-.519
165	3110	.424	.193	1.139	-.266
165	3111	.229	.141	.831	-.183
165	3112	.422	.189	1.189	-.306
165	3113	-.258	.080	-.038	-.629
165	3114	.253	.174	1.017	-.305
165	3115	.390	.162	1.098	-.114
165	3116	-.261	.080	-.044	-.711
165	3117	.340	.175	1.015	-.405
165	3118	.232	.130	.848	-.130
165	3119	.296	.141	.902	-.112
165	3120	.223	.138	.759	-.179
165	3121	.388	.156	1.013	-.092
165	3122	.416	.165	1.067	-.048
165	3123	.449	.182	1.083	-.114
165	3124	-.286	.078	-.084	-.883
165	3125	.243	.134	.832	-.125
165	3126	.206	.117	.650	-.127
165	3127	.235	.123	.719	-.107
165	3128	.224	.120	.660	-.127
165	3129	.325	.151	.860	-.066
165	3130	.142	.114	.647	-.264
165	3131	.335	.141	.826	-.005
165	3132	.352	.146	.852	-.012
165	3133	.324	.148	.936	-.036
165	3134	.375	.158	.963	-.092
165	3135	.370	.202	1.111	-.219
165	3136	.346	.195	1.126	-.212
165	3137	.484	.184	1.242	-.434
165	3138	.475	.197	1.251	-.186
165	3139	-.278	.080	-.061	-.835
165	3140	.193	.101	.607	-.326
165	3141	.252	.135	1.051	-.178
165	3142	.143	.120	.728	-.191
165	3143	.289	.135	1.063	-.093
165	3144	.345	.148	1.193	-.187
165	3145	.376	.181	1.120	-.161
165	3146	-.276	.081	-.088	-.888
165	3147	-.277	.079	-.098	-.835
165	3148	.235	.128	.702	-.175
165	3149	.219	.123	.827	-.195
165	3150	.361	.178	1.047	-.069

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
165	3151	.437	.182	1.221	-.453
165	3152	.433	.182	1.220	-.466
165	3153	.415	.179	1.054	-.368
165	3154	-.283	.083	-.045	-1.080
165	3155	-.283	.082	-.042	-1.066
165	3156	.216	.122	.702	-.113
165	3157	.215	.126	.698	-.163
165	3158	.375	.184	1.010	-.123
165	3159	.428	.193	1.126	-.305
165	3160	.425	.191	1.138	-.307
165	3161	-.304	.082	-.056	-.795
165	3162	-.284	.079	-.060	-.735
165	3163	.212	.123	.732	-.125
165	3164	.179	.102	.557	-.113
165	3165	.228	.114	.642	-.056
165	3166	.178	.116	.686	-.158
165	3167	.341	.142	.846	.014
165	3168	.399	.158	.945	-.035
165	3169	.418	.182	1.066	-.061
165	3170	.408	.181	1.028	-.083
165	3171	.447	.178	1.107	-.156
165	3172	.445	.177	1.088	-.147
165	3173	.209	.124	.795	-.154
165	3174	.420	.189	1.404	-.475
165	3175	-.338	.087	-.105	-.935
165	3176	-.327	.086	-.097	-.843
165	3177	.169	.118	.654	-.185
165	3178	.169	.115	.611	-.156
165	3179	.303	.166	.905	-.112
165	3180	.354	.174	.993	-.211
165	3181	.400	.168	1.059	-.634
165	3182	-.343	.100	-.060	-.972
165	3183	-.347	.099	-.076	-.974
165	3184	.165	.111	.602	-.135
165	3185	.176	.111	.749	-.127
165	3186	.338	.162	1.075	-.254
165	3187	.368	.168	1.158	-.373
165	3188	.386	.168	1.088	-.550
165	3189	-.386	.106	-.132	-.978
165	3190	-.365	.102	-.109	-.967
165	3191	.165	.113	.610	-.195
165	3192	.138	.092	.473	-.206
165	3193	.161	.097	.783	-.102
165	3194	.123	.105	.946	-.150
165	3195	.258	.123	.893	-.047
165	3196	.307	.141	.931	-.047
165	3197	.309	.155	.895	-.088
165	3198	.301	.153	.897	-.095
165	3199	.334	.160	.975	-.241
165	3200	-.387	.106	.139	-.960
165	3201	-.390	.115	-.132	-1.115
165	3202	.126	.105	.623	-.212
165	3203	.129	.104	.627	-.178
165	3204	.268	.162	1.076	-.125
165	3205	.327	.157	.905	-.146
165	3206	.330	.155	.906	-.134
165	3207	-.426	.122	.009	-.996
165	3208	-.415	.118	-.104	-.965
165	3209	.121	.098	.564	-.171
165	3210	.127	.094	.573	-.135
165	3211	.257	.133	.807	-.219
165	3212	.297	.140	.848	-.211
165	3213	.270	.152	.920	-.418
165	3214	.116	.111	.616	-.244
165	3215	.243	.144	.940	-.471
165	3216	-.433	.128	.095	-1.075
165	3217	-.405	.125	-.104	-1.269
165	3218	.090	.092	.498	-.169
165	3219	.064	.074	.416	-.140
165	3220	.044	.067	.338	-.165
165	3221	.087	.077	.496	-.222
165	3222	.026	.085	.486	-.214
165	3223	.167	.093	.653	-.077
165	3224	.204	.111	.768	-.087
165	3225	.228	.120	.718	-.203
165	3226	.224	.132	.762	-.186
165	3227	.207	.132	.764	-.140
165	3228	.209	.131	.784	-.159
165	3229	.243	.154	.894	-.550
165	3230	-.450	.137	.057	-1.285
165	3231	-.443	.136	-.011	-1.257
165	3232	.035	.085	.412	-.266
165	3233	.040	.074	.359	-.174
165	3234	.070	.071	.348	-.157
165	3235	.141	.099	.564	-.238
165	3236	.121	.100	.541	-.294
165	3237	-.442	.146	.166	-1.232
165	3238	-.440	.141	.024	-1.333
165	3239	-.013	.064	.294	-.227
165	3240	-.009	.059	.247	-.216
165	3241	.031	.059	.255	-.295
165	3242	.015	.055	.179	-.283
165	3243	-.367	.175	.229	-1.050
165	3244	-.419	.156	.119	-1.215
165	3245	-.029	.056	.173	-.283
165	3246	-.031	.048	.124	-.257
165	3247	-.034	.048	.154	-.315
165	3248	-.010	.049	.212	-.225
165	3249	.139	.084	.474	-.099
165	3250	.180	.096	.546	-.124
165	3251	.122	.071	.397	-.116
165	3252	.041	.053	.336	-.173
165	3253	-.002	.053	.183	-.345
165	3254	-.221	.121	.231	-.890
165	3255	.043	.050	.246	-.199
165	3256	.012	.041	.159	-.184
165	3257	-.061	.066	.262	-.326
165	3258	.031	.047	.236	-.121
165	3259	.027	.042	.177	-.100
165	3260	.013	.049	.204	-.161
165	3261	.037	.045	.265	-.128
165	3262	.016	.056	.193	-.245
165	3263	.057	.047	.252	-.114
165	3264	.067	.052	.312	-.130
165	3265	-.155	.079	.067	-.660
165	3266	.024	.051	.294	-.123
165	3267	.011	.047	.230	-.166
165	4301	.551	.215	1.300	-.801
165	4302	.088	.183	.777	-.496
165	4303	.082	.260	.949	-.764
165	4304	.185	.152	.930	-.343
165	4305	.129	.127	.780	-.238
165	4306	-.112	.106	.426	-.459
165	4307	.070	.114	.602	-.320
165	4308	.142	.128	.775	-.284
165	4309	.297	.170	.934	-.230
165	4310	-.229	.068	.079	-.584
165	4311	.377	.220	1.006	-.595
165	4312	.371	.203	1.131	-.725
165	4313	.152	.178	.843	-.555
165	4314	-.216	.060	-.018	-.518
165	4315	.374	.236	1.158	-.735
165	4316	.384	.224	1.076	-.752
165	4317	.240	.187	.959	-.581
165	4318	.242	.216	1.087	-.393
165	4319	.261	.234	1.061	-.355
165	4320	.315	.229	1.063	-.500
165	4321	.303	.175	.874	-.216
165	4322	.547	.174	.961	-.236
165	4323	.277	.147	.905	-.201
165	4324	.284	.147	.886	-.104
165	4325	.355	.173	1.018	-.102
165	4326	.251	.136	.753	-.071
165	4327	.256	.156	.744	-.072
165	4328	.315	.159	.899	-.063
165	4329	.086	.113	.580	-.191
165	4330	.072	.101	.461	-.401
165	4331	.157	.122	.766	-.149
165	4332	.213	.129	.837	-.142
165	4333	.249	.138	.946	-.149

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
165	4334	.186	.107	.669	-.084
165	4335	.191	.112	.714	-.077
165	4336	.270	.145	.865	-.076
165	4337	.155	.101	.635	-.154
165	4338	.143	.100	.612	-.136
165	4339	.201	.124	.891	-.133
165	4340	.218	.130	.762	-.168
165	4341	-.219	.065	-.028	-.559
165	4342	-.208	.062	.010	-.548
165	4343	.343	.219	1.093	-.467
165	4344	.348	.206	1.104	-.428
165	4345	.242	.184	1.084	-.270
165	4346	.323	.214	1.033	-.450
165	4347	.353	.220	1.049	-.752
165	4348	.231	.186	.834	-.381
165	4349	.322	.227	1.129	-.685
165	4350	.196	.174	.909	-.373
165	4351	.253	.175	1.027	-.201
165	4352	.297	.149	.840	-.095
165	4353	.232	.119	.747	-.078
165	4354	.080	.094	.457	-.141
165	4355	.164	.103	.565	-.094
165	4356	.129	.091	.530	-.102
165	4357	.171	.103	.575	-.114
165	4358	-.225	.068	-.035	-.559
165	4359	-.222	.155	.814	-.256
165	4360	-.224	.063	-.020	-.705
165	4361	.280	.194	1.020	-.651
165	4362	.292	.201	1.091	-.491
165	4363	.250	.178	.907	-.267
165	4364	.277	.219	.962	-.501
165	4365	.297	.202	.945	-.464
165	4366	.213	.169	.837	-.314
165	4367	.232	.196	.883	-.481
165	4368	.176	.161	.823	-.479
165	4369	.198	.169	.896	-.446
165	4370	.252	.139	.857	-.312
165	4371	.219	.117	.743	-.117
165	4372	.041	.089	.508	-.177
165	4373	.114	.093	.567	-.111
165	4374	.092	.082	.459	-.141
165	4375	.120	.097	.604	-.154
165	4376	-.252	.070	.126	-.660
165	4377	.213	.170	.709	-.458
165	4378	.250	.177	1.074	-.683
165	4379	.102	.122	.710	-.382
165	4380	.192	.157	.801	-.496
165	4381	.176	.167	.868	-.715
165	4382	.087	.116	.674	-.356
165	4383	.123	.148	.719	-.558
165	4384	.159	.141	.763	-.511
165	4385	.071	.104	.568	-.304
165	4386	.092	.113	.689	-.241
165	4387	.093	.123	.785	-.341
165	4388	.122	.128	.774	-.384
165	4389	.165	.110	.773	-.318
165	4390	.141	.078	.561	-.124
165	4391	.021	.064	.531	-.225
165	4392	.062	.061	.471	-.122
165	4393	.024	.054	.358	-.148
165	4394	.036	.056	.382	-.170
165	4395	.061	.071	.380	-.183
165	4396	.078	.086	.451	-.236
165	4397	-.290	.086	-.065	-.715
165	4398	-.312	.091	-.053	-.765
165	4399	.075	.107	.509	-.678
165	4400	.097	.090	.478	-.603
165	4401	.047	.088	.527	-.338
165	4402	.016	.066	.387	-.517
165	4403	.033	.056	.246	-.200
165	4404	.040	.073	.627	-.215
165	4405	.005	.059	.581	-.270
165	4406	.038	.067	.581	-.157
165	4407	.066	.068	.416	-.114
165	4408	.087	.065	.421	-.120
165	4409	.095	.066	.471	-.094
165	4410	.051	.068	.475	-.179
165	4411	.057	.058	.325	-.133
165	4412	.032	.055	.249	-.204
165	4413	.043	.076	.535	-.156
165	4414	-.421	.135	.011	-1.404
165	4415	-.013	.062	.314	-.198
165	4416	-.364	.119	.016	-.880
165	4417	-.015	.056	.326	-.171
165	4418	-.178	.090	.179	-.597
165	4419	.081	.055	.349	-.087
165	4420	.091	.062	.391	-.138
165	4421	.111	.067	.428	-.060
165	4422	.090	.061	.348	-.082
165	4423	.031	.056	.296	-.138
165	4424	.119	.074	.467	-.076
165	9901	.061	.045	.231	-.068
165	9902	.061	.043	.245	-.052
165	9903	.054	.042	.233	-.060
165	9904	.017	.049	.243	-.161
165	9905	-.162	.074	.062	-.543
180	110	-.178	.057	.004	-.443
180	111	-.197	.064	.024	-.502
180	112	-.184	.061	.012	-.461
180	130	.120	.166	.646	-1.117
180	140	.142	.110	.528	-.223
180	141	-.173	.063	.038	-.534
180	142	-.282	.141	.839	-.203
180	143	-.223	.071	-.014	-.575
180	144	.358	.166	.920	-.221
180	145	-.237	.078	-.047	-.641
180	220	-.294	.111	-.004	-.864
180	221	-.315	.159	.025	-1.368
180	230	-.236	.167	.716	-.968
180	231	-.005	.165	.737	-.550
180	310	-.208	.079	.032	-.515
180	320	-.237	.076	-.029	-.586
180	321	-.261	.077	-.038	-.612
180	322	-.265	.073	-.056	-.674
180	323	-.286	.079	-.057	-.714
180	324	-.230	.068	-.021	-.553
180	325	-.260	.076	-.037	-.675
180	330	.116	.139	.792	-.388
180	331	-.033	.262	.836	-.835
180	332	.421	.182	1.123	-.102
180	410	-.394	.102	-.125	-.821
180	411	-.403	.112	-.102	-.893
180	440	.064	.264	.845	-1.072
180	441	-.443	.113	.214	-.939
180	901	-.003	.103	.459	-.409
180	902	-.074	.088	.311	-.454
180	903	.042	.121	.506	-.418
180	904	-.198	.135	.275	-.727
180	905	-.288	.101	.040	-.695
180	906	-.324	.095	-.038	-.686
180	907	-.426	.126	-.062	-.984
180	908	-.510	.130	-.151	-1.052
180	909	-.057	.099	.318	-.503
180	910	-.111	.097	.289	-.456
180	911	-.095	.094	.212	-.525
180	912	-.210	.065	-.028	-.451
180	1101	-.176	.052	.009	-.396
180	1102	-.172	.049	-.004	-.403
180	1103	-.173	.048	-.012	-.401
180	1104	-.172	.048	-.018	-.384
180	1105	-.164	.052	.004	-.406
180	1106	-.168	.054	.011	-.405
180	1107	-.176	.058	.025	-.573
180	1108	-.201	.071	.050	-.687
180	1109	-.206	.076	.001	-.621
180	1110	-.316	.131	-.026	-1.058
180	1111	-.172	.049	-.030	-.370
180	1112	-.315	.124	-.003	-.970
180	1113	-.183	.051	-.032	-.383
180	1114	-.194	.060	.006	-.420

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	1115	-.288	.110	-.012	-.865
180	1116	-.186	.051	-.008	-.381
180	1117	-.183	.054	-.014	-.429
180	1118	-.168	.044	-.024	-.325
180	1119	-.168	.043	-.030	-.306
180	1120	-.168	.042	-.035	-.303
180	1121	-.172	.048	-.027	-.347
180	1122	-.173	.049	.008	-.333
180	1123	-.188	.053	-.027	-.388
180	1124	-.178	.050	-.030	-.376
180	1125	-.168	.045	-.040	-.327
180	1126	-.169	.045	-.041	-.328
180	1127	-.170	.045	-.043	-.329
180	1128	-.171	.045	-.045	-.331
180	1129	-.164	.044	-.029	-.370
180	1130	-.168	.044	-.036	-.383
180	1131	-.168	.044	-.035	-.347
180	1132	-.169	.044	-.040	-.359
180	1133	-.181	.047	-.050	-.383
180	1134	-.182	.047	-.024	-.393
180	1135	-.188	.050	-.032	-.401
180	1136	-.196	.053	-.035	-.419
180	1137	-.313	.115	-.029	-.982
180	1138	-.273	.099	-.021	-.759
180	1139	-.190	.051	-.032	-.474
180	1140	-.172	.047	-.026	-.345
180	1141	-.173	.046	-.044	-.327
180	1142	-.176	.046	-.041	-.350
180	1143	-.180	.046	-.039	-.363
180	1144	-.178	.049	.007	-.397
180	1145	-.206	.059	-.007	-.507
180	1146	-.187	.051	-.015	-.425
180	1147	-.195	.052	-.036	-.501
180	1148	-.175	.049	-.036	-.402
180	1149	-.176	.050	-.017	-.378
180	1150	-.207	.057	.006	-.479
180	1151	-.306	.106	.054	-.830
180	1152	-.284	.103	.043	-.796
180	1153	-.310	.106	-.063	-.948
180	1154	-.186	.050	-.013	-.411
180	1155	-.196	.052	-.015	-.426
180	1156	-.175	.047	-.012	-.364
180	1157	-.176	.048	-.010	-.383
180	1158	-.211	.057	-.017	-.418
180	1159	-.311	.107	-.027	-.910
180	1160	-.288	.103	-.002	-.905
180	1161	-.183	.057	-.010	-.490
180	1162	-.186	.059	-.008	-.550
180	1163	-.184	.053	-.015	-.423
180	1164	-.175	.052	-.010	-.402
180	1165	-.182	.047	.005	-.349
180	1166	-.184	.047	-.017	-.338
180	1167	-.195	.046	-.032	-.348
180	1168	-.195	.047	-.024	-.349
180	1169	-.220	.057	-.034	-.424
180	1170	-.229	.061	-.038	-.449
180	1171	-.333	.116	-.039	-.859
180	1172	-.310	.111	-.036	-.829
180	1173	-.187	.050	-.020	-.412
180	1174	-.322	.109	-.074	-.892
180	1175	-.200	.056	-.022	-.479
180	1176	-.193	.057	-.024	-.530
180	1177	-.185	.051	-.034	-.427
180	1178	-.188	.051	-.034	-.387
180	1179	-.237	.063	-.024	-.545
180	1180	-.319	.113	-.024	-.981
180	1181	-.305	.109	-.039	-.792
180	1182	-.194	.054	-.029	-.446
180	1183	-.202	.056	-.036	-.470
180	1184	-.183	.050	-.024	-.385
180	1185	-.188	.054	-.037	-.470
180	1186	-.247	.065	-.057	-.536
180	1187	-.342	.118	-.054	-.874
180	1188	-.322	.114	-.050	-.862
180	1189	-.191	.062	-.010	-.505
180	1190	-.196	.064	-.005	-.576
180	1191	-.195	.058	-.027	-.455
180	1192	-.188	.056	-.029	-.437
180	1193	-.196	.054	-.039	-.392
180	1194	-.208	.053	-.043	-.399
180	1195	-.218	.053	-.075	-.428
180	1196	-.227	.061	-.059	-.468
180	1197	-.261	.066	-.041	-1.153
180	1198	-.272	.070	-.024	-.588
180	1199	-.344	.112	-.019	-.898
180	1200	-.211	.064	-.014	-.468
180	1201	-.231	.069	-.010	-.736
180	1202	-.217	.064	-.024	-.580
180	1203	-.225	.064	-.049	-.596
180	1204	-.287	.085	-.059	-.867
180	1205	-.321	.109	-.051	-.763
180	1206	-.317	.105	-.017	-.753
180	1207	-.232	.074	.017	-.555
180	1208	-.230	.075	.005	-.634
180	1209	-.232	.072	-.027	-.597
180	1210	-.241	.073	-.041	-.646
180	1211	-.292	.081	-.073	-.686
180	1212	-.327	.106	0.000	-.820
180	1213	-.327	.101	-.070	-.786
180	1214	-.228	.079	-.022	-.766
180	1215	-.332	.103	-.017	-.776
180	1216	-.210	.070	.000	-.525
180	1217	-.220	.074	-.015	-.671
180	1218	-.213	.071	-.009	-.701
180	1219	-.227	.071	-.046	-.783
180	1220	-.229	.072	-.049	-.740
180	1221	-.226	.072	-.029	-.498
180	1222	-.241	.074	-.060	-.539
180	1223	-.241	.068	-.032	-.525
180	1224	-.261	.079	-.039	-.569
180	1225	-.300	.094	-.070	-.745
180	1226	-.290	.088	-.069	-.652
180	1227	-.310	.095	-.089	-.692
180	1228	-.293	.091	-.086	-.721
180	1229	-.336	.099	-.053	-.863
180	1230	-.243	.081	-.030	-.645
180	1231	-.263	.088	.026	-.793
180	1232	-.224	.079	.003	-.613
180	1233	-.244	.081	-.029	-.747
180	1234	-.310	.108	-.058	-.957
180	1235	-.358	.127	-.070	-1.108
180	1236	-.341	.118	-.067	-.919
180	1237	-.301	.105	-.058	-.913
180	1238	-.315	.116	-.055	-1.003
180	1239	-.287	.102	-.010	-1.034
180	1240	-.290	.105	-.058	-1.015
180	1241	-.351	.145	-.039	-1.033
180	1242	-.343	.134	-.028	-.990
180	1243	-.364	.139	-.075	-1.572
180	1244	-.357	.141	-.070	-1.643
180	1245	-.352	.137	-.094	-1.413
180	1246	-.312	.112	-.046	-1.047
180	1247	-.293	.117	.169	-.895
180	1248	-.216	.089	.105	-.679
180	1249	-.199	.069	.026	-.567
180	1250	-.193	.062	-.002	-.446
180	1251	-.206	.066	-.020	-.546
180	1252	-.216	.076	-.028	-.791
180	1253	-.248	.111	.113	-1.021
180	1254	-.214	.098	.069	-.694
180	1255	-.146	.064	.027	-.544
180	1256	-.140	.058	.054	-.429
180	1257	-.137	.087	.122	-.562
180	1258	-.099	.078	.134	-.412
180	1259	-.085	.065	.174	-.345
180	1260	-.052	.069	.250	-.345
180	1261	-.106	.110	.211	-.615
180	1262	-.063	.053	.132	-.275
180	1263	-.045	.053	.164	-.254
180	1264	-.042	.054	.206	-.403

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	1265	.038	.071	.406	-.230
180	1266	-.134	.073	.057	-.560
180	1267	-.165	.105	.099	-.581
180	1901	-.421	.110	-.081	-.881
180	1902	-.390	.100	-.087	-.828
180	1903	-.340	.091	-.060	-.688
180	1904	-.307	.100	-.058	-.798
180	1905	-.293	.074	-.092	-.675
180	1906	-.234	.078	.253	-.572
180	1907	-.237	.076	.094	-.546
180	1908	-.094	.135	.533	-.473
180	1909	-.343	.090	-.065	-.696
180	1910	-.355	.099	-.012	-.748
180	1911	-.300	.089	-.021	-.712
180	1912	-.279	.044	-.146	-.420
180	2301	-.329	.115	-.016	-1.005
180	2302	-.197	.092	.046	-.750
180	2303	-.296	.096	.106	-.839
180	2304	-.288	.101	.054	-.778
180	2305	-.298	.086	.034	-.687
180	2306	-.298	.079	-.043	-.825
180	2307	-.267	.070	-.041	-.622
180	2308	-.254	.069	-.039	-.607
180	2309	-.272	.071	-.055	-.683
180	2310	-.266	.079	-.022	-.607
180	2311	-.334	.122	-.020	-.908
180	2312	-.315	.109	-.022	-.899
180	2313	-.303	.101	-.001	-.801
180	2314	-.281	.078	-.031	-.752
180	2315	-.316	.103	-.057	-.719
180	2316	-.301	.099	-.044	-.700
180	2317	-.316	.091	.095	-.704
180	2318	-.329	.094	-.067	-.721
180	2319	-.303	.088	-.048	-.705
180	2320	-.296	.088	-.046	-.688
180	2321	-.306	.083	-.029	-.648
180	2322	-.321	.083	-.048	-.668
180	2323	-.300	.083	-.032	-.654
180	2324	-.275	.077	-.022	-.555
180	2325	-.300	.078	-.045	-.620
180	2326	-.303	.082	-.007	-.789
180	2327	-.279	.079	-.011	-.744
180	2328	-.267	.076	-.044	-.650
180	2329	-.308	.092	-.071	-.916
180	2330	-.288	.081	-.055	-.885
180	2331	-.262	.075	-.027	-.756
180	2332	-.254	.077	-.010	-.714
180	2333	-.273	.077	-.022	-.769
180	2334	-.278	.082	-.055	-.781
180	2335	-.253	.078	-.048	-.705
180	2336	-.238	.074	-.034	-.650
180	2337	-.266	.079	-.062	-.685
180	2338	-.244	.074	.019	-.738
180	2339	-.237	.073	.011	-.631
180	2340	-.224	.071	.018	-.664
180	2341	-.278	.086	-.022	-.802
180	2342	-.283	.082	-.036	-.695
180	2343	-.334	.110	-.039	-.862
180	2344	-.317	.101	-.041	-.830
180	2345	-.334	.098	-.031	-.949
180	2346	-.330	.115	-.010	-1.020
180	2347	-.323	.105	-.078	-1.088
180	2348	-.312	.097	-.056	-.809
180	2349	-.357	.116	-.031	-1.028
180	2350	-.325	.097	-.100	-1.001
180	2351	-.338	.093	-.052	-.784
180	2352	-.309	.083	-.002	-.693
180	2353	-.291	.080	-.082	-.610
180	2354	-.318	.090	-.057	-1.159
180	2355	-.309	.088	-.040	-.776
180	2356	-.291	.086	-.025	-.751
180	2357	-.273	.080	-.010	-.556
180	2358	-.318	.094	-.008	-.925
180	2359	-.349	.100	-.072	-1.041
180	2360	-.319	.091	-.050	-.876
180	2361	-.338	.115	-.051	-.918
180	2362	-.327	.110	.001	-1.001
180	2363	-.361	.105	-.103	-.873
180	2364	-.361	.115	-.055	-.947
180	2365	-.340	.109	-.056	-.804
180	2366	-.369	.106	-.108	-.862
180	2367	-.342	.111	-.064	-.908
180	2368	-.348	.114	.060	-.949
180	2369	-.328	.111	.018	-1.165
180	2370	-.361	.116	-.071	-.981
180	2371	-.369	.100	-.105	-.947
180	2372	-.357	.095	-.126	-.892
180	2373	-.334	.088	-.094	-.885
180	2374	-.358	.087	-.092	-.977
180	2375	-.334	.085	-.088	-.688
180	2376	-.367	.098	-.101	-.889
180	2377	-.333	.111	-.056	-.951
180	2378	-.365	.105	-.080	-.944
180	2379	-.334	.106	-.022	-.853
180	2380	-.328	.110	-.022	-.783
180	2381	-.339	.107	-.067	-.907
180	2382	-.330	.109	-.037	-.923
180	2383	-.327	.109	-.028	-.853
180	2384	-.346	.108	-.049	-.922
180	2385	-.295	.112	.224	-.832
180	2386	-.284	.110	.103	-.725
180	2387	-.312	.119	.164	-.938
180	2388	-.328	.117	.021	-.863
180	2389	-.344	.124	.062	-.982
180	2390	-.384	.130	.035	-1.253
180	2391	-.352	.114	-.028	-1.069
180	2392	-.369	.111	-.110	-1.050
180	2393	-.370	.111	-.105	-.967
180	2394	-.365	.107	-.102	-.872
180	2395	-.378	.112	-.109	-.964
180	2396	-.371	.112	-.093	-1.070
180	2397	-.398	.120	-.097	-1.119
180	2398	-.401	.125	-.136	-1.167
180	2399	-.320	.126	.002	-1.064
180	2400	-.343	.129	-.037	-1.075
180	2401	-.195	.106	.219	-.673
180	2402	-.326	.165	.027	-1.397
180	2403	-.320	.148	-.028	-1.427
180	2404	-.156	.104	.262	-.576
180	2405	-.197	.124	.047	-1.119
180	2406	-.107	.069	.159	-.366
180	2407	-.106	.066	.134	-.411
180	2408	-.119	.067	.148	-.382
180	2409	-.171	.078	.105	-.633
180	2410	-.130	.085	.294	-.500
180	2411	-.160	.129	.360	-.865
180	2412	-.303	.149	.362	-1.077
180	2413	-.341	.155	.093	-1.202
180	2414	-.364	.136	.040	-1.011
180	2415	-.064	.053	.181	-.366
180	2416	-.170	.102	.158	-.778
180	2417	-.040	.052	.212	-.234
180	2418	-.026	.053	.186	-.234
180	3101	-.370	.144	.378	-1.211
180	3102	.330	.161	1.008	-.163
180	3103	.267	.150	.827	-.187
180	3104	.218	.143	.824	-.202
180	3105	.173	.171	1.148	-.363
180	3106	.298	.162	1.064	-.105
180	3107	.313	.162	.974	-.146
180	3108	.388	.177	1.088	-.048
180	3109	.392	.194	1.213	-.391
180	3110	.405	.203	1.139	-.416
180	3111	.274	.155	.910	-.117
180	3112	.344	.232	1.078	-.493
180	3113	.362	.129	.124	-1.012
180	3114	.420	.197	1.259	-.110
180	3115	.362	.219	1.196	-.389
180	3116	.376	.134	.145	-1.097
180	3117	.434	.181	1.168	-.087

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	3118	.265	.145	.816	-.197
180	3119	.352	.162	1.049	-.095
180	3120	.344	.171	1.017	-.092
180	3121	.435	.187	1.253	-.020
180	3122	.452	.195	1.295	-.022
180	3123	.467	.196	1.206	-.027
180	3124	-.429	.154	.079	-1.123
180	3125	.275	.142	.830	-.097
180	3126	.257	.134	.911	-.103
180	3127	.294	.143	1.047	-.082
180	3128	.285	.143	1.071	-.092
180	3129	.380	.170	1.064	-.015
180	3130	.284	.170	1.023	-.098
180	3131	.399	.174	1.129	.005
180	3132	.416	.177	1.086	.015
180	3133	.436	.167	1.011	-.018
180	3134	.456	.175	1.098	-.017
180	3135	.473	.178	1.144	-.010
180	3136	.465	.179	1.161	-.026
180	3137	.286	.224	1.072	-.521
180	3138	.314	.222	1.030	-.611
180	3139	-.365	.125	.023	-1.147
180	3140	.217	.120	.815	-.274
180	3141	.342	.153	.927	-.014
180	3142	.281	.145	.918	-.119
180	3143	.381	.160	1.003	.011
180	3144	.422	.170	1.062	.027
180	3145	.424	.174	.998	-.100
180	3146	-.365	.126	.047	-1.167
180	3147	-.357	.120	-.065	-1.102
180	3148	.240	.130	.768	-.141
180	3149	.247	.127	.704	-.091
180	3150	.420	.165	1.022	-.054
180	3151	.292	.225	.996	-.747
180	3152	.326	.211	.999	-.806
180	3153	.254	.211	.869	-.719
180	3154	-.372	.138	.206	-1.058
180	3155	-.365	.134	-.079	-1.083
180	3156	.222	.122	.738	-.141
180	3157	.244	.122	.745	-.105
180	3158	.422	.157	.992	-.052
180	3159	.304	.220	1.046	-.552
180	3160	.335	.208	1.011	-.556
180	3161	-.382	.137	.110	-1.199
180	3162	-.362	.132	-.006	-1.100
180	3163	.221	.123	.901	-.081
180	3164	.206	.108	.698	-.053
180	3165	.236	.116	.783	-.045
180	3166	.248	.134	.863	-.084
180	3167	.343	.141	1.058	.042
180	3168	.377	.151	1.106	.050
180	3169	.369	.156	1.048	.029
180	3170	.366	.157	1.063	.020
180	3171	.247	.204	.882	-.471
180	3172	.278	.189	.924	-.442
180	3173	.216	.124	.852	-.134
180	3174	.221	.226	.847	-.577
180	3175	-.442	.150	.076	-1.175
180	3176	-.426	.143	-.067	-1.120
180	3177	.208	.112	.728	-.091
180	3178	.210	.111	.777	-.091
180	3179	.375	.143	.960	-.062
180	3180	.257	.217	.847	-.710
180	3181	.283	.200	.874	-.747
180	3182	-.422	.133	.043	-1.217
180	3183	-.419	.129	-.091	-1.128
180	3184	.172	.113	.693	-.183
180	3185	.179	.110	.673	-.105
180	3186	.331	.145	.872	-.130
180	3187	.215	.215	.860	-.828
180	3188	.247	.201	.845	-.894
180	3189	-.398	.123	.127	-1.347
180	3190	-.380	.118	-.086	-1.275
180	3191	.153	.098	.585	-.205
180	3192	.140	.082	.474	-.144
180	3193	.215	.113	.743	-.134
180	3194	.231	.131	.764	-.068
180	3195	.319	.139	.844	-.000
180	3196	.351	.146	.936	-.015
180	3197	.386	.137	.919	-.053
180	3198	.376	.137	.897	-.068
180	3199	.218	.202	.808	-.726
180	3200	-.546	.180	.150	-1.379
180	3201	-.519	.165	.026	-1.311
180	3202	.146	.108	.775	-.158
180	3203	.165	.111	.822	-.117
180	3204	.303	.142	.952	-.144
180	3205	.144	.196	.879	-.695
180	3206	.184	.184	.881	-.697
180	3207	-.503	.173	.195	-1.185
180	3208	-.490	.158	.057	-1.169
180	3209	.133	.107	.642	-.256
180	3210	.149	.107	.612	-.158
180	3211	.275	.127	.780	-.105
180	3212	.141	.189	.843	-.677
180	3213	.148	.184	.807	-.814
180	3214	.127	.108	.542	-.241
180	3215	.100	.187	.703	-.768
180	3216	-.504	.222	.356	-1.270
180	3217	-.548	.174	.204	-1.327
180	3218	.131	.099	.519	-.172
180	3219	.117	.090	.532	-.122
180	3220	.100	.081	.437	-.125
180	3221	.147	.100	.608	-.114
180	3222	.155	.116	.673	-.161
180	3223	.226	.109	.676	-.089
180	3224	.250	.114	.754	-.073
180	3225	.217	.110	.732	-.078
180	3226	.241	.114	.796	-.170
180	3227	.228	.117	.793	-.153
180	3228	.235	.119	.813	-.145
180	3229	.151	.151	.771	-.713
180	3230	-.475	.213	.311	-1.460
180	3231	-.488	.195	.276	-1.424
180	3232	.055	.088	.513	-.225
180	3233	.065	.088	.622	-.204
180	3234	.094	.069	.438	-.208
180	3235	.056	.153	.506	-.984
180	3236	.075	.131	.479	-.921
180	3237	-.354	.202	.303	-1.231
180	3238	-.360	.179	.273	-1.178
180	3239	-.003	.064	.314	-.259
180	3240	.008	.059	.329	-.239
180	3241	-.080	.097	.170	-.594
180	3242	-.052	.080	.130	-.541
180	3243	-.192	.199	.431	-1.053
180	3244	-.276	.192	.435	-1.140
180	3245	-.007	.074	.381	-.236
180	3246	.000	.067	.387	-.215
180	3247	-.009	.065	.339	-.249
180	3248	.013	.051	.285	-.169
180	3249	.157	.081	.619	-.052
180	3250	.192	.087	.812	-.027
180	3251	.122	.063	.490	-.056
180	3252	.035	.040	.182	-.107
180	3253	-.067	.072	.136	-.539
180	3254	-.110	.126	.275	-.769
180	3255	-.039	.075	.190	-.343
180	3256	.002	.043	.150	-.163
180	3257	-.056	.070	.186	-.341
180	3258	.064	.053	.327	-.118
180	3259	.027	.036	.174	-.171
180	3260	.084	.071	.448	-.114
180	3261	.028	.045	.257	-.156
180	3262	.033	.041	.224	-.145
180	3263	.042	.042	.238	-.160
180	3264	.021	.050	.204	-.196
180	3265	-.094	.068	.083	-.445
180	3266	.149	.107	.614	-.130
180	3267	.103	.087	.465	-.133

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	4301	-.071	.305	.741	-1.125
180	4302	-.203	.111	.213	-.632
180	4303	-.294	.174	.771	-.869
180	4304	.037	.193	.828	-.693
180	4305	.053	.116	.573	-.505
180	4306	-.191	.084	.186	-.627
180	4307	.004	.090	.457	-.282
180	4308	.088	.114	.797	-.245
180	4309	.214	.151	.779	-.231
180	4310	-.205	.064	.005	-.529
180	4311	-.053	.323	.848	-1.312
180	4312	-.020	.323	.985	-1.034
180	4313	-.178	.146	.367	-.732
180	4314	-.200	.057	-.011	-.525
180	4315	-.057	.324	1.097	-1.188
180	4316	-.021	.339	1.025	-1.149
180	4317	-.075	.164	.526	-.817
180	4318	-.092	.155	.499	-.979
180	4319	-.099	.151	.565	-1.068
180	4320	-.048	.191	.654	-1.291
180	4321	.070	.177	.633	-.795
180	4322	.122	.194	.708	-.586
180	4323	.113	.147	.525	-.775
180	4324	.127	.135	.546	-.568
180	4325	.190	.168	.756	-.649
180	4326	.108	.102	.535	-.523
180	4327	.123	.104	.525	-.493
180	4328	.188	.139	.810	-.478
180	4329	-.059	.072	.281	-.337
180	4330	-.063	.068	.196	-.309
180	4331	.019	.080	.413	-.287
180	4332	.078	.095	.471	-.234
180	4333	.117	.103	.536	-.216
180	4334	.080	.092	.456	-.273
180	4335	.086	.092	.470	-.304
180	4336	.155	.127	.678	-.366
180	4337	.062	.082	.415	-.236
180	4338	.066	.082	.485	-.264
180	4339	.120	.107	.609	-.219
180	4340	.140	.117	.618	-.369
180	4341	-.195	.054	-.023	-.696
180	4342	-.199	.055	-.041	-.446
180	4343	-.070	.314	.985	-1.113
180	4344	-.030	.329	1.020	-1.167
180	4345	-.049	.161	.640	-.602
180	4346	-.127	.315	.817	-1.196
180	4347	.013	.319	.980	-1.133
180	4348	-.038	.170	.504	-.778
180	4349	-.028	.309	.838	-1.482
180	4350	-.096	.167	.490	-.849
180	4351	-.024	.158	.441	-.709
180	4352	.089	.181	.679	-.680
180	4353	.107	.120	.447	-.535
180	4354	-.035	.067	.220	-.411
180	4355	.068	.083	.390	-.339
180	4356	.048	.074	.336	-.344
180	4357	.090	.092	.524	-.178
180	4358	-.215	.061	-.038	-.520
180	4359	-.049	.166	.504	-.854
180	4360	-.211	.061	-.038	-.538
180	4361	-.095	.304	.813	-1.239
180	4362	-.089	.315	.740	-1.181
180	4363	-.027	.167	.458	-.706
180	4364	-.092	.295	.806	-.916
180	4365	-.035	.303	.965	-.856
180	4366	-.045	.163	.457	-.574
180	4367	-.101	.285	.780	-1.106
180	4368	-.069	.156	.428	-.772
180	4369	-.055	.157	.499	-.861
180	4370	.061	.171	.576	-.817
180	4371	.121	.109	.532	-.513
180	4372	-.053	.064	.176	-.441
180	4373	.045	.077	.401	-.348
180	4374	.037	.068	.370	-.290
180	4375	.049	.087	.498	-.269
180	4376	-.229	.067	-.048	-.802
180	4377	-.128	.271	.827	-1.041
180	4378	-.014	.263	.855	-.992
180	4379	-.032	.144	.516	-.744
180	4380	-.099	.256	.804	-.985
180	4381	.014	.247	.826	-.990
180	4382	-.031	.136	.516	-.629
180	4383	-.168	.225	.588	-1.115
180	4384	-.122	.234	.551	-1.070
180	4385	-.118	.129	.316	-.837
180	4386	-.085	.127	.414	-.782
180	4387	-.057	.128	.529	-.752
180	4388	-.032	.145	.564	-.734
180	4389	.032	.132	.541	-.634
180	4390	-.063	.084	.423	-.634
180	4391	-.042	.064	.263	-.447
180	4392	-.006	.065	.277	-.442
180	4393	-.021	.059	.234	-.391
180	4394	-.006	.062	.273	-.394
180	4395	.026	.080	.447	-.266
180	4396	.036	.085	.581	-.295
180	4397	-.237	.077	-.022	-.614
180	4398	-.252	.082	-.008	-.702
180	4399	-.119	.183	.411	-1.023
180	4400	-.068	.166	.375	-1.043
180	4401	-.085	.124	.357	-.867
180	4402	-.086	.109	.170	-.870
180	4403	-.051	.087	.175	-.524
180	4404	-.070	.088	.282	-.776
180	4405	-.064	.069	.160	-.368
180	4406	-.023	.061	.305	-.456
180	4407	-.003	.064	.263	-.368
180	4408	.029	.056	.248	-.318
180	4409	.032	.052	.270	-.245
180	4410	-.010	.053	.240	-.193
180	4411	.012	.048	.229	-.127
180	4412	-.010	.047	.210	-.171
180	4413	.006	.074	.408	-.243
180	4414	-.404	.131	-.068	-1.288
180	4415	-.017	.049	.260	-.227
180	4416	-.332	.127	.058	-.973
180	4417	-.013	.042	.224	-.199
180	4418	-.147	.081	.133	-.479
180	4419	.012	.047	.220	-.158
180	4420	.021	.050	.239	-.145
180	4421	.037	.053	.322	-.168
180	4422	.028	.048	.267	-.152
180	4423	-.021	.045	.163	-.188
180	4424	.045	.053	.273	-.103
180	9901	.042	.049	.248	-.098
180	9902	.037	.036	.172	-.085
180	9903	.028	.036	.170	-.080
180	9904	-.018	.038	.164	-.129
180	9905	-.141	.073	.106	-.447
195	110	-.189	.072	.022	-.544
195	111	-.211	.081	.022	-.547
195	112	-.211	.086	.038	-.524
195	130	.125	.168	.582	-.700
195	140	.036	.143	.467	-.888
195	141	-.167	.070	.017	-.571
195	142	.177	.175	.890	-.720
195	143	-.248	.091	.068	-.722
195	144	.258	.198	.956	-.497
195	145	-.238	.092	.070	-.776
195	220	-.244	.102	.144	-.775
195	221	-.241	.114	.387	-.874
195	230	-.216	.130	.537	-.780
195	231	-.199	.131	.565	-.700
195	310	-.213	.093	.039	-.641
195	320	-.250	.083	-.028	-.678
195	321	-.282	.085	-.059	-.756
195	322	-.259	.083	-.008	-.837
195	323	-.292	.090	-.038	-.992
195	324	-.269	.086	-.033	-.831
195	325	-.294	.082	-.005	-.753

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
195	330	.226	.159	.793	-.264
195	331	.254	.200	.923	-.818
195	332	.438	.181	1.202	-.058
195	410	-.379	.111	-.072	-.795
195	411	-.373	.122	-.074	-1.041
195	440	-.441	.290	.581	-1.263
195	441	-.449	.131	.077	-.979
195	901	-.179	.119	.306	-.840
195	902	-.220	.121	.148	-.762
195	903	-.075	.126	.349	-.844
195	904	-.150	.131	.352	-.770
195	905	-.171	.138	.337	-.612
195	906	-.330	.112	.018	-.899
195	907	-.379	.129	-.008	-.980
195	908	-.487	.120	-.122	-.979
195	909	-.160	.103	.181	-.593
195	910	-.222	.094	.139	-.595
195	911	-.177	.093	.150	-.610
195	912	-.162	.063	.098	-.425
195	1101	-.191	.069	-.003	-.574
195	1102	-.172	.058	-.003	-.443
195	1103	-.173	.056	-.006	-.437
195	1104	-.170	.054	.005	-.413
195	1105	-.158	.058	.008	-.442
195	1106	-.162	.058	.003	-.459
195	1107	-.169	.055	.041	-.448
195	1108	-.172	.061	.026	-.599
195	1109	-.172	.061	.029	-.475
195	1110	-.230	.102	.035	-.779
195	1111	-.168	.056	.045	-.430
195	1112	-.241	.106	.055	-.790
195	1113	-.198	.075	.101	-.716
195	1114	-.180	.060	.026	-.470
195	1115	-.242	.104	.012	-.694
195	1116	-.196	.073	.083	-.697
195	1117	-.176	.057	.020	-.400
195	1118	-.166	.057	.014	-.436
195	1119	-.165	.053	.010	-.379
195	1120	-.164	.050	.008	-.374
195	1121	-.169	.051	.015	-.370
195	1122	-.167	.051	.019	-.362
195	1123	-.177	.056	.015	-.393
195	1124	-.187	.068	.019	-.479
195	1125	-.171	.059	.013	-.431
195	1126	-.168	.058	.014	-.400
195	1127	-.170	.055	.006	-.374
195	1128	-.172	.056	.001	-.383
195	1129	-.162	.050	-.029	-.391
195	1130	-.160	.048	-.024	-.384
195	1131	-.159	.047	-.025	-.388
195	1132	-.161	.047	-.031	-.386
195	1133	-.173	.051	-.017	-.370
195	1134	-.168	.050	-.017	-.339
195	1135	-.172	.053	-.018	-.351
195	1136	-.179	.056	-.015	-.383
195	1137	-.242	.115	.065	-.798
195	1138	-.235	.098	.008	-.819
195	1139	-.193	.082	.084	-.733
195	1140	-.167	.061	.071	-.437
195	1141	-.164	.053	.017	-.378
195	1142	-.161	.052	.009	-.377
195	1143	-.164	.051	-.005	-.361
195	1144	-.159	.052	.012	-.421
195	1145	-.181	.063	.063	-.484
195	1146	-.188	.080	.036	-.739
195	1147	-.199	.086	.062	-.740
195	1148	-.171	.066	.021	-.524
195	1149	-.169	.065	.024	-.564
195	1150	-.174	.061	.023	-.558
195	1151	-.256	.113	.034	-.858
195	1152	-.237	.105	.016	-.701
195	1153	-.257	.118	.041	-.781
195	1154	-.182	.077	.023	-.839
195	1155	-.194	.086	.036	-.875
195	1156	-.164	.062	.014	-.503
195	1157	-.170	.063	.012	-.521
195	1158	-.180	.061	.006	-.472
195	1159	-.273	.120	.041	-.803
195	1160	-.252	.112	.028	-.771
195	1161	-.188	.079	.031	-.660
195	1162	-.188	.086	.069	-.677
195	1163	-.175	.062	.026	-.464
195	1164	-.167	.058	.009	-.426
195	1165	-.171	.057	0.000	-.402
195	1166	-.166	.052	-.031	-.342
195	1167	-.172	.049	-.024	-.329
195	1168	-.169	.051	-.031	-.367
195	1169	-.183	.055	.024	-.405
195	1170	-.188	.060	.036	-.414
195	1171	-.287	.121	.084	-.841
195	1172	-.267	.111	.047	-.759
195	1173	-.171	.066	.034	-.518
195	1174	-.288	.127	.078	-.851
195	1175	-.195	.084	.053	-.724
195	1176	-.191	.090	.061	-.755
195	1177	-.174	.065	.007	-.525
195	1178	-.174	.065	.009	-.507
195	1179	-.206	.067	-.002	-.488
195	1180	-.302	.131	.031	-.922
195	1181	-.292	.126	.024	-.865
195	1182	-.194	.086	.053	-.632
195	1183	-.210	.092	.070	-.675
195	1184	-.177	.067	.094	-.491
195	1185	-.175	.063	0.000	-.492
195	1186	-.200	.067	.011	-.507
195	1187	-.309	.130	.026	-.945
195	1188	-.291	.124	.026	-.912
195	1189	-.202	.083	.051	-.629
195	1190	-.203	.089	.060	-.658
195	1191	-.191	.068	.043	-.462
195	1192	-.186	.064	.024	-.477
195	1193	-.193	.062	-.019	-.528
195	1194	-.189	.058	-.022	-.477
195	1195	-.191	.053	-.022	-.437
195	1196	-.193	.057	0.000	-.444
195	1197	-.203	.066	-.012	-.487
195	1198	-.210	.072	-.008	-.537
195	1199	-.298	.129	-.026	-.897
195	1200	-.203	.081	.024	-.578
195	1201	-.205	.086	-.007	-.701
195	1202	-.184	.074	-.010	-.547
195	1203	-.197	.073	-.022	-.567
195	1204	-.205	.073	.019	-.863
195	1205	-.268	.122	.039	-.935
195	1206	-.257	.116	.027	-.937
195	1207	-.217	.079	-.005	-.584
195	1208	-.214	.080	-.002	-.550
195	1209	-.208	.083	.019	-.757
195	1210	-.214	.083	-.005	-.595
195	1211	-.206	.082	-.002	-.601
195	1212	-.252	.121	.028	-.872
195	1213	-.249	.107	.002	-.837
195	1214	-.203	.078	.007	-.607
195	1215	-.248	.105	.004	-.746
195	1216	-.210	.094	.015	-.717
195	1217	-.218	.093	.017	-.689
195	1218	-.208	.088	.016	-.695
195	1219	-.225	.091	.011	-.768
195	1220	-.231	.093	-.009	-.769
195	1221	-.223	.088	-.012	-.616
195	1222	-.205	.074	.087	-.581
195	1223	-.198	.063	-.032	-.494
195	1224	-.207	.074	-.004	-.540
195	1225	-.208	.085	.036	-.621
195	1226	-.201	.081	.021	-.630
195	1227	-.210	.083	.023	-.601
195	1228	-.197	.081	.034	-.580
195	1229	-.239	.101	-.005	-.713
195	1230	-.262	.122	-.002	-1.131
195	1231	-.283	.133	.043	-1.145

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
195	1232	-.237	.113	-.002	-1.186
195	1233	-.249	.116	-.005	-.868
195	1234	-.228	.096	.040	-.728
195	1235	-.275	.112	.016	-.809
195	1236	-.263	.107	.038	-.826
195	1237	-.306	.136	-.000	-1.149
195	1238	-.321	.145	-.012	-1.255
195	1239	-.283	.125	-.011	-.884
195	1240	-.294	.131	-.014	-1.002
195	1241	-.270	.119	-.012	-1.098
195	1242	-.264	.112	-.033	-1.021
195	1243	-.310	.135	-.013	-1.201
195	1244	-.302	.138	-.004	-1.255
195	1245	-.274	.130	-.037	-1.331
195	1246	-.235	.104	.037	-.885
195	1247	-.193	.109	.134	-.786
195	1248	-.130	.068	.159	-.476
195	1249	-.128	.051	.041	-.315
195	1250	-.137	.055	.033	-.363
195	1251	-.185	.076	.002	-.606
195	1252	-.209	.097	.015	-.805
195	1253	-.262	.130	-.024	-1.215
195	1254	-.132	.065	.066	-.559
195	1255	-.159	.083	.048	-.615
195	1256	-.150	.061	.005	-.634
195	1257	-.056	.048	.172	-.427
195	1258	-.038	.043	.126	-.262
195	1259	-.068	.047	.115	-.274
195	1260	-.036	.043	.126	-.234
195	1261	-.045	.045	.172	-.226
195	1262	-.049	.042	.073	-.250
195	1263	-.065	.045	.069	-.274
195	1264	-.052	.046	.107	-.300
195	1265	-.042	.066	.325	-.253
195	1266	-.060	.043	.067	-.279
195	1267	-.056	.044	.076	-.286
195	1901	-.372	.116	-.019	-.824
195	1902	-.340	.103	-.023	-.887
195	1903	-.296	.095	.045	-.931
195	1904	-.306	.104	.048	-.890
195	1905	-.294	.076	-.105	-.648
195	1906	-.284	.098	.135	-.802
195	1907	-.272	.091	.138	-.751
195	1908	-.240	.127	.543	-.786
195	1909	-.305	.093	-.014	-.798
195	1910	-.329	.099	.022	-.707
195	1911	-.290	.090	.055	-.750
195	1912	-.300	.048	-.188	-.481
195	2301	-.267	.128	.158	-.978
195	2302	-.161	.110	.247	-.725
195	2303	-.252	.107	.148	-.860
195	2304	-.252	.111	.125	-.913
195	2305	-.291	.107	.197	-.988
195	2306	-.326	.099	-.021	-.818
195	2307	-.298	.085	-.064	-.819
195	2308	-.282	.082	-.041	-.811
195	2309	-.303	.084	-.024	-.815
195	2310	-.317	.111	-.040	-1.091
195	2311	-.294	.137	.065	-.927
195	2312	-.263	.116	.051	-.817
195	2313	-.272	.123	.169	-.960
195	2314	-.337	.101	-.050	-.948
195	2315	-.286	.137	.160	-1.091
195	2316	-.267	.125	.123	-1.065
195	2317	-.300	.132	.141	-.976
195	2318	-.321	.132	.106	-.989
195	2319	-.285	.111	.120	-.858
195	2320	-.273	.105	.120	-.773
195	2321	-.303	.121	.151	-.934
195	2322	-.287	.114	.164	-1.227
195	2323	-.279	.119	.153	-1.192
195	2324	-.260	.110	.208	-1.168
195	2325	-.275	.101	.125	-1.095
195	2326	-.307	.126	.253	-1.188
195	2327	-.278	.118	.215	-1.109
195	2328	-.259	.105	.125	-.930
195	2329	-.328	.139	.176	-1.443
195	2330	-.327	.114	.005	-1.162
195	2331	-.293	.101	-.004	-.812
195	2332	-.289	.096	-.006	-.768
195	2333	-.306	.100	-.015	-.883
195	2334	-.316	.111	.032	-1.184
195	2335	-.288	.101	.005	-.987
195	2336	-.270	.092	-.010	-.947
195	2337	-.301	.101	-.006	-1.100
195	2338	-.264	.087	-.004	-.786
195	2339	-.259	.085	.004	-.682
195	2340	-.262	.051	-.124	-.462
195	2341	-.335	.101	-.043	-.857
195	2342	-.315	.097	-.043	-.820
195	2343	-.291	.139	.042	-.909
195	2344	-.273	.070	-.094	-.588
195	2345	-.305	.139	.116	-.997
195	2346	-.302	.132	.114	-.966
195	2347	-.301	.123	.028	-.950
195	2348	-.302	.093	.032	-.740
195	2349	-.338	.142	.048	-1.084
195	2350	-.301	.121	.134	-.993
195	2351	-.325	.123	.130	-.904
195	2352	-.308	.111	.123	-.985
195	2353	-.282	.102	.067	-.853
195	2354	-.348	.113	.057	-1.217
195	2355	-.337	.100	.003	-1.080
195	2356	-.318	.094	.003	-.955
195	2357	-.292	.089	-.008	-.682
195	2358	-.359	.100	-.015	-.972
195	2359	-.343	.135	.089	-1.032
195	2360	-.371	.106	-.080	-.985
195	2361	-.328	.146	.042	-1.239
195	2362	-.310	.124	.047	-.867
195	2363	-.349	.142	.207	-1.234
195	2364	-.341	.144	.090	-1.315
195	2365	-.324	.131	.066	-1.158
195	2366	-.354	.135	.092	-1.303
195	2367	-.309	.125	-.008	-.926
195	2368	-.322	.143	.180	-1.045
195	2369	-.311	.133	.163	-1.039
195	2370	-.351	.130	.027	-1.035
195	2371	-.369	.116	.049	-1.030
195	2372	-.366	.110	.077	-1.324
195	2373	-.358	.102	-.072	-1.141
195	2374	-.381	.097	-.141	-1.030
195	2375	-.350	.103	-.086	-.981
195	2376	-.427	.120	-.117	-1.123
195	2377	-.292	.115	.010	-.823
195	2378	-.342	.100	-.101	-.874
195	2379	-.274	.132	.216	-1.070
195	2380	-.275	.108	.100	-.748
195	2381	-.271	.108	-.010	-.858
195	2382	-.231	.136	.242	-.779
195	2383	-.256	.104	.037	-.788
195	2384	-.272	.106	-.015	-.782
195	2385	-.175	.134	.278	-.795
195	2386	-.168	.135	.398	-.643
195	2387	-.195	.129	.221	-.688
195	2388	-.217	.123	.066	-.723
195	2389	-.233	.136	.220	-.765
195	2390	-.308	.141	.304	-1.072
195	2391	-.328	.139	.168	-1.000
195	2392	-.388	.143	.251	-1.627
195	2393	-.404	.162	.351	-1.895
195	2394	-.392	.145	-.108	-1.593
195	2395	-.420	.138	-.059	-1.392
195	2396	-.401	.146	-.079	-1.378
195	2397	-.450	.163	-.134	-1.537
195	2398	-.458	.171	-.128	-1.627
195	2399	-.305	.130	.040	-.922
195	2400	-.327	.133	-.045	-.940
195	2401	-.122	.127	.315	-.697
195	2402	-.357	.157	.033	-1.080

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
195	2403	-.335	.147	-.003	-1.063
195	2404	-.070	.088	.357	-.464
195	2405	-.244	.151	.040	-1.131
195	2406	-.085	.051	.128	-.287
195	2407	-.076	.055	.191	-.338
195	2408	-.088	.052	.108	-.346
195	2409	-.136	.065	.076	-.474
195	2410	-.082	.067	.173	-.416
195	2411	-.072	.102	.370	-.620
195	2412	-.205	.120	.177	-.878
195	2413	-.260	.121	.034	-1.083
195	2414	-.283	.124	.075	-1.023
195	2415	-.056	.055	.148	-.378
195	2416	-.122	.095	.239	-.762
195	2417	-.027	.051	.179	-.220
195	2418	-.013	.049	.257	-.290
195	3101	-.182	.258	.972	-1.179
195	3102	.332	.170	1.089	-.151
195	3103	.298	.168	1.073	-.174
195	3104	.261	.161	.987	-.236
195	3105	.298	.169	.994	-.197
195	3106	.312	.162	1.013	-.141
195	3107	.300	.162	.939	-.145
195	3108	.354	.169	1.076	-.071
195	3109	.401	.167	1.228	-.041
195	3110	.146	.259	1.227	-.873
195	3111	.337	.161	1.027	-.116
195	3112	-.079	.284	1.108	-1.321
195	3113	-.355	.181	.226	-1.128
195	3114	.436	.175	1.230	-.116
195	3115	-.022	.275	.898	-1.502
195	3116	-.397	.184	.282	-1.151
195	3117	.394	.174	1.133	-.088
195	3118	.332	.163	1.195	-.220
195	3119	.423	.182	1.332	-.038
195	3120	.442	.185	1.236	-.019
195	3121	.446	.186	1.233	-.041
195	3122	.448	.189	1.237	-.023
195	3123	.422	.183	1.194	-.035
195	3124	-.418	.217	.521	-1.331
195	3125	.363	.155	.994	-.043
195	3126	.366	.157	1.045	-.033
195	3127	.406	.164	1.062	-.005
195	3128	.406	.167	1.108	-.017
195	3129	.418	.182	1.065	.012
195	3130	.404	.190	1.153	-.092
195	3131	.435	.189	1.151	-.010
195	3132	.436	.187	1.138	.018
195	3133	.462	.173	1.206	.045
195	3134	.462	.175	1.230	.034
195	3135	.444	.171	1.227	.028
195	3136	.418	.165	1.135	-.004
195	3137	-.110	.284	.907	-1.376
195	3138	-.089	.328	.905	-1.339
195	3139	-.424	.176	.256	-1.134
195	3140	.297	.132	.804	-.103
195	3141	.399	.164	1.151	-.038
195	3142	.399	.169	1.195	-.041
195	3143	.442	.171	1.129	.010
195	3144	.456	.171	1.144	.025
195	3145	.419	.176	1.094	-.040
195	3146	-.481	.197	.471	-1.273
195	3147	-.473	.179	.041	-1.165
195	3148	.302	.146	.924	-.124
195	3149	.276	.127	.767	-.038
195	3150	.367	.144	.839	-.100
195	3151	-.134	.267	.690	-1.116
195	3152	-.072	.298	.754	-1.137
195	3153	-.148	.275	.753	-1.402
195	3154	-.465	.189	.412	-1.245
195	3155	-.458	.171	.064	-1.200
195	3156	.269	.134	.761	-.163
195	3157	.279	.139	.942	-.057
195	3158	.370	.161	1.075	-.012
195	3159	-.134	.278	.730	-1.254
195	3160	-.072	.309	.706	-1.351
195	3161	-.512	.207	.330	-1.540
195	3162	-.493	.183	.120	-1.393
195	3163	.271	.136	.858	-.111
195	3164	.279	.131	.864	-.066
195	3165	.335	.130	1.109	.029
195	3166	.392	.144	1.016	.054
195	3167	.428	.140	1.043	.064
195	3168	.431	.141	1.057	-.039
195	3169	.394	.161	1.109	-.066
195	3170	.370	.159	1.072	-.087
195	3171	-.175	.286	.767	-1.130
195	3172	-.110	.310	.922	-1.098
195	3173	.239	.134	.791	-.156
195	3174	-.178	.296	.907	-1.307
195	3175	-.495	.212	.316	-1.251
195	3176	-.489	.187	.186	-1.231
195	3177	.240	.117	.705	-.088
195	3178	.256	.117	.723	-.080
195	3179	.337	.140	.814	-.069
195	3180	-.160	.274	.666	-1.133
195	3181	-.147	.311	1.014	-1.421
195	3182	-.483	.232	.485	-1.370
195	3183	-.488	.202	.167	-1.373
195	3184	.204	.120	.708	-.269
195	3185	.237	.129	.814	-.121
195	3186	.316	.156	.988	-.148
195	3187	-.196	.285	.723	-1.384
195	3188	-.132	.316	.970	-1.314
195	3189	-.538	.235	.316	-1.654
195	3190	-.525	.208	.204	-1.627
195	3191	.224	.121	.751	-.109
195	3192	.236	.115	.694	-.050
195	3193	.263	.119	.831	-.031
195	3194	.308	.130	.866	-.032
195	3195	.340	.129	.905	.045
195	3196	.342	.131	.947	.014
195	3197	.326	.144	.926	.000
195	3198	.308	.140	.857	-.034
195	3199	-.145	.320	.669	-1.366
195	3200	-.504	.258	.345	-1.567
195	3201	-.510	.221	.138	-1.398
195	3202	.156	.109	.630	-.134
195	3203	.176	.111	.629	-.090
195	3204	.247	.130	.747	-.110
195	3205	-.167	.280	.646	-1.134
195	3206	-.093	.293	.694	-1.143
195	3207	-.481	.250	.347	-1.401
195	3208	-.489	.218	.271	-1.362
195	3209	.162	.110	.667	-.209
195	3210	.184	.109	.707	-.164
195	3211	.240	.120	.697	-.076
195	3212	-.140	.281	.758	-1.475
195	3213	-.250	.337	.623	-1.542
195	3214	.170	.122	.740	-.213
195	3215	-.302	.308	.626	-1.593
195	3216	-.377	.314	.485	-1.601
195	3217	-.441	.267	.561	-1.451
195	3218	.194	.125	.713	-.143
195	3219	.203	.123	.742	-.114
195	3220	.186	.116	.678	-.115
195	3221	.214	.117	.838	-.057
195	3222	.228	.116	.701	-.087
195	3223	.229	.112	.694	-.065
195	3224	.216	.116	.697	-.070
195	3225	.160	.110	.669	-.156
195	3226	.192	.118	.803	-.129
195	3227	.177	.115	.698	-.186
195	3228	.177	.117	.725	-.185
195	3229	-.158	.293	.693	-1.917
195	3230	-.236	.286	.619	-1.718
195	3231	-.300	.263	.494	-1.737
195	3232	.122	.112	.680	-.216
195	3233	.117	.111	.684	-.267
195	3234	.041	.071	.421	-.205

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
195	3235	-.225	.268	.427	-1.544
195	3236	-.172	.258	.431	-1.542
195	3237	-.094	.220	.520	-1.263
195	3238	-.147	.218	.490	-1.216
195	3239	.085	.106	.550	-.472
195	3240	.091	.099	.537	-.218
195	3241	-.318	.207	.068	-1.393
195	3242	-.268	.199	.118	-1.285
195	3243	-.001	.157	.582	-.820
195	3244	-.066	.178	.588	-.964
195	3245	.051	.095	.527	-.233
195	3246	.057	.092	.553	-.202
195	3247	.031	.083	.354	-.214
195	3248	.046	.068	.342	-.216
195	3249	.206	.098	.732	-.146
195	3250	.214	.096	.671	-.087
195	3251	.092	.074	.431	-.209
195	3252	.016	.049	.215	-.178
195	3253	-.228	.122	.036	-.945
195	3254	.008	.101	.379	-.555
195	3255	-.134	.085	.150	-.556
195	3256	-.050	.055	.179	-.300
195	3257	-.029	.064	.186	-.281
195	3258	-.072	.055	.337	-.122
195	3259	-.017	.053	.174	-.284
195	3260	.150	.089	.574	-.079
195	3261	.067	.079	.448	-.199
195	3262	-.025	.058	.155	-.412
195	3263	.023	.058	.371	-.237
195	3264	-.076	.061	.193	-.404
195	3265	-.056	.049	.068	-.336
195	3266	.157	.102	.585	-.160
195	3267	.146	.092	.612	-.156
195	4301	-.597	.252	.291	-1.627
195	4302	-.323	.129	-.019	-.926
195	4303	-.423	.135	-.020	-1.021
195	4304	-.288	.177	.325	-.905
195	4305	-.081	.177	.595	-.738
195	4306	-.221	.120	.452	-.696
195	4307	-.042	.110	.502	-.677
195	4308	.061	.148	.736	-.802
195	4309	.115	.176	.847	-.712
195	4310	-.216	.087	.076	-.771
195	4311	-.642	.293	.397	-1.984
195	4312	-.568	.255	.342	-1.521
195	4313	-.433	.145	-.072	-1.051
195	4314	-.188	.077	.047	-.671
195	4315	-.521	.237	.476	-1.879
195	4316	-.491	.245	.509	-1.662
195	4317	-.349	.148	.191	-1.509
195	4318	-.340	.150	.032	-1.228
195	4319	-.344	.154	.197	-1.202
195	4320	-.343	.172	.184	-1.286
195	4321	-.266	.175	.388	-.968
195	4322	-.268	.203	.442	-1.136
195	4323	-.228	.237	.327	-1.227
195	4324	-.173	.213	.414	-1.039
195	4325	-.157	.251	.622	-1.151
195	4326	-.119	.164	.288	-.830
195	4327	-.104	.179	.378	-.841
195	4328	-.066	.214	.570	-1.052
195	4329	-.176	.105	.096	-.880
195	4330	-.133	.105	.214	-.803
195	4331	-.090	.134	.473	-.909
195	4332	-.073	.112	.222	-.787
195	4333	-.044	.129	.366	-.758
195	4334	-.053	.119	.236	-.830
195	4335	-.035	.113	.258	-.743
195	4336	.017	.147	.522	-.779
195	4337	-.044	.094	.208	-.551
195	4338	-.030	.104	.282	-.760
195	4339	.023	.124	.508	-.593
195	4340	.030	.127	.590	-.555
195	4341	-.199	.074	.010	-.617
195	4342	-.195	.083	.057	-.736
195	4343	-.531	.215	.219	-1.554
195	4344	-.500	.224	.578	-1.473
195	4345	-.354	.148	.022	-.975
195	4346	-.519	.198	.201	-1.479
195	4347	-.457	.229	.400	-1.341
195	4348	-.327	.152	.053	-.961
195	4349	-.475	.218	.264	-1.358
195	4350	-.374	.166	.015	-1.338
195	4351	-.329	.165	.199	-1.180
195	4352	-.276	.190	.358	-1.004
195	4353	-.142	.187	.343	-.868
195	4354	-.155	.124	.215	-.821
195	4355	-.072	.129	.268	-.768
195	4356	-.070	.115	.322	-.699
195	4357	-.048	.136	.436	-.628
195	4358	-.212	.092	.125	-.795
195	4359	-.342	.153	.114	-1.126
195	4360	-.213	.089	.073	-.836
195	4361	-.493	.218	.426	-1.405
195	4362	-.482	.209	.392	-1.330
195	4363	-.383	.165	.159	-1.066
195	4364	-.543	.227	.419	-1.566
195	4365	-.514	.234	.638	-1.491
195	4366	-.385	.172	.122	-1.329
195	4367	-.464	.200	.327	-1.416
195	4368	-.342	.180	.034	-1.195
195	4369	-.332	.181	.088	-1.233
195	4370	-.262	.209	.330	-1.321
195	4371	-.121	.179	.338	-.934
195	4372	-.144	.120	.156	-.821
195	4373	-.074	.115	.277	-.678
195	4374	-.069	.105	.310	-.609
195	4375	-.052	.128	.363	-.925
195	4376	-.205	.090	.021	-.638
195	4377	-.433	.200	.444	-1.346
195	4378	-.387	.233	.437	-1.504
195	4379	-.314	.160	.115	-.976
195	4380	-.406	.211	.446	-1.379
195	4381	-.393	.239	.418	-1.436
195	4382	-.306	.168	.144	-1.125
195	4383	-.412	.234	.354	-1.352
195	4384	-.370	.251	.469	-1.342
195	4385	-.299	.167	.052	-1.088
195	4386	-.308	.172	.129	-1.240
195	4387	-.301	.184	.147	-1.424
195	4388	-.300	.223	.325	-1.883
195	4389	-.216	.215	.427	-1.273
195	4390	-.091	.164	.389	-.795
195	4391	-.092	.088	.252	-.725
195	4392	-.032	.077	.258	-.475
195	4393	-.047	.067	.179	-.476
195	4394	-.034	.074	.358	-.468
195	4395	-.018	.088	.329	-.362
195	4396	.011	.107	.539	-.378
195	4397	-.223	.088	.056	-.870
195	4398	-.233	.093	.028	-.920
195	4399	-.351	.221	.189	-1.450
195	4400	-.285	.220	.346	-1.358
195	4401	-.259	.170	.070	-1.148
195	4402	-.245	.155	.110	-1.002
195	4403	-.155	.119	.106	-.716
195	4404	-.170	.116	.098	-1.060
195	4405	-.138	.081	.100	-.564
195	4406	-.106	.076	.216	-.585
195	4407	-.070	.076	.168	-.414
195	4408	-.021	.059	.159	-.267
195	4409	-.016	.048	.207	-.191
195	4410	-.047	.054	.178	-.281
195	4411	-.025	.045	.185	-.250
195	4412	-.039	.045	.134	-.267
195	4413	-.026	.061	.329	-.309
195	4414	-.350	.141	.039	-1.197
195	4415	-.088	.053	.078	-.363
195	4416	-.257	.117	.116	-.936
195	4417	-.058	.049	.098	-.349

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
195	4418	-.102	.064	.087	-.415
195	4419	-.061	.047	.174	-.235
195	4420	-.049	.043	.134	-.362
195	4421	-.029	.043	.181	-.205
195	4422	-.028	.039	.163	-.166
195	4423	-.054	.039	.097	-.207
195	4424	-.023	.042	.160	-.167
195	9901	.026	.062	.275	-.214
195	9902	-.002	.044	.141	-.167
195	9903	-.012	.041	.116	-.156
195	9904	-.041	.037	.083	-.197
195	9905	-.063	.038	.104	-.223
210	110	-.177	.093	.046	-.736
210	111	-.161	.079	.058	-.500
210	112	-.169	.097	.039	-.666
210	130	-.012	.150	.739	-.454
210	140	-.159	.155	.336	-1.049
210	141	-.166	.086	.095	-.624
210	142	-.115	.153	.539	-.806
210	143	-.175	.101	.099	-.700
210	144	-.093	.170	.726	-.676
210	145	-.175	.102	.124	-.792
210	220	-.165	.090	.098	-.777
210	221	-.028	.165	.447	-.837
210	230	.186	.212	1.081	-.488
210	231	.008	.135	.783	-.408
210	310	-.209	.103	.065	-.871
210	320	-.262	.106	.025	-.797
210	321	-.324	.134	.107	-.881
210	322	-.280	.115	.034	-.824
210	323	-.325	.165	.375	-1.100
210	324	-.338	.129	-.024	-.933
210	325	-.398	.164	.448	-1.123
210	330	.184	.154	.902	-.219
210	331	.249	.171	1.165	-.724
210	332	.291	.176	1.062	-.174
210	410	-.270	.107	-.003	-.732
210	411	-.289	.132	.023	-.949
210	440	-.371	.159	.356	-1.055
210	441	-.312	.123	.124	-.906
210	901	-.068	.130	.506	-.723
210	902	-.079	.090	.430	-.450
210	903	-.112	.101	.419	-.559
210	904	-.079	.107	.538	-.462
210	905	-.074	.095	.297	-.450
210	906	-.224	.110	.095	-.785
210	907	-.268	.115	.164	-.816
210	908	-.400	.121	-.098	-1.035
210	909	-.149	.091	.297	-.643
210	910	-.140	.087	.202	-.623
210	911	-.132	.087	-.234	-.608
210	912	-.123	.034	-.024	-.227
210	1101	-.124	.065	.060	-.478
210	1102	-.100	.050	.074	-.368
210	1103	-.129	.048	.044	-.332
210	1104	-.110	.046	.063	-.284
210	1105	-.091	.047	.069	-.296
210	1106	-.097	.047	.065	-.347
210	1107	-.108	.053	.086	-.421
210	1108	-.135	.056	.056	-.418
210	1109	-.111	.061	.074	-.400
210	1110	-.156	.082	.069	-.687
210	1111	-.146	.056	.057	-.432
210	1112	-.162	.088	.068	-.839
210	1113	-.121	.075	.076	-.496
210	1114	-.118	.057	.060	-.394
210	1115	-.165	.075	.057	-.840
210	1116	-.150	.078	.061	-.567
210	1117	-.106	.053	.079	-.412
210	1118	-.108	.052	.095	-.336
210	1119	-.135	.045	.019	-.317
210	1120	-.114	.041	.025	-.260
210	1121	-.101	.040	.010	-.284
210	1122	-.102	.042	.020	-.293
210	1123	-.137	.051	.042	-.364
210	1124	-.145	.071	.070	-.643
210	1125	-.104	.050	.055	-.355
210	1126	-.107	.048	.023	-.343
210	1127	-.130	.045	-.001	-.344
210	1128	-.116	.045	.014	-.329
210	1129	-.087	.040	.029	-.235
210	1130	-.104	.040	.018	-.272
210	1131	-.124	.043	-.003	-.379
210	1132	-.115	.043	.004	-.411
210	1133	-.090	.045	.039	-.270
210	1134	-.107	.046	.025	-.305
210	1135	-.125	.051	.029	-.387
210	1136	-.122	.054	.047	-.440
210	1137	-.136	.081	.076	-.743
210	1138	-.124	.070	.101	-.734
210	1139	-.138	.080	.077	-.670
210	1140	-.111	.051	.034	-.312
210	1141	-.105	.043	.051	-.275
210	1142	-.105	.042	.044	-.267
210	1143	-.102	.042	.049	-.259
210	1144	-.104	.046	.037	-.275
210	1145	-.108	.053	.053	-.588
210	1146	-.135	.075	.059	-.635
210	1147	-.137	.080	.082	-.650
210	1148	-.109	.054	.042	-.387
210	1149	-.110	.051	.066	-.504
210	1150	-.111	.054	.054	-.382
210	1151	-.127	.073	.069	-.650
210	1152	-.124	.068	.059	-.516
210	1153	-.120	.068	.053	-.814
210	1154	-.139	.073	.071	-.551
210	1155	-.140	.078	.112	-.531
210	1156	-.110	.051	.084	-.466
210	1157	-.109	.051	.061	-.460
210	1158	-.108	.052	.032	-.392
210	1159	-.122	.072	.042	-.705
210	1160	-.120	.067	.024	-.535
210	1161	-.150	.083	.066	-.585
210	1162	-.156	.089	.061	-.630
210	1163	-.117	.053	.090	-.365
210	1164	-.113	.049	.042	-.300
210	1165	-.107	.043	.031	-.293
210	1166	-.106	.041	.012	-.240
210	1167	-.104	.041	.019	-.244
210	1168	-.105	.045	.020	-.285
210	1169	-.103	.046	.031	-.300
210	1170	-.105	.049	.034	-.353
210	1171	-.122	.067	.110	-.680
210	1172	-.117	.061	.081	-.540
210	1173	-.116	.052	.048	-.338
210	1174	-.130	.071	.086	-.855
210	1175	-.148	.081	.067	-.594
210	1176	-.151	.085	.076	-.620
210	1177	-.118	.050	.028	-.315
210	1178	-.118	.050	.047	-.301
210	1179	-.113	.050	.029	-.370
210	1180	-.128	.068	.034	-.615
210	1181	-.126	.067	.074	-.544
210	1182	-.144	.079	.098	-.542
210	1183	-.146	.082	.092	-.569
210	1184	-.113	.053	.084	-.352
210	1185	-.116	.051	.059	-.346
210	1186	-.110	.053	.037	-.485
210	1187	-.122	.065	.039	-.567
210	1188	-.120	.062	.052	-.481
210	1189	-.141	.074	.059	-.552
210	1190	-.142	.079	.115	-.566
210	1191	-.114	.051	.044	-.367
210	1192	-.114	.050	.047	-.340
210	1193	-.116	.046	.018	-.308
210	1194	-.111	.043	.010	-.287
210	1195	-.106	.042	.021	-.286
210	1196	-.107	.045	.032	-.317
210	1197	-.109	.047	.031	-.328
210	1198	-.109	.051	.039	-.375

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	1199	-.120	.063	.057	-.561
210	1200	-.137	.068	.039	-.605
210	1201	-.151	.079	.020	-.598
210	1202	-.125	.058	.020	-.458
210	1203	-.125	.056	.011	-.506
210	1204	-.109	.057	.029	-.518
210	1205	-.114	.059	.094	-.468
210	1206	-.110	.053	.061	-.419
210	1207	-.129	.061	.057	-.506
210	1208	-.130	.062	.064	-.540
210	1209	-.129	.058	.066	-.478
210	1210	-.129	.057	.034	-.441
210	1211	-.097	.047	.029	-.390
210	1212	-.111	.058	.027	-.474
210	1213	-.126	.061	.055	-.582
210	1214	-.126	.053	.031	-.343
210	1215	-.124	.061	.027	-.571
210	1216	-.161	.072	.042	-.601
210	1217	-.171	.075	.000	-.769
210	1218	-.159	.067	.003	-.535
210	1219	-.160	.066	.012	-.521
210	1220	-.161	.066	-.007	-.571
210	1221	-.155	.053	-.007	-.403
210	1222	-.130	.044	.026	-.324
210	1223	-.121	.041	.019	-.290
210	1224	-.116	.045	.007	-.307
210	1225	-.122	.054	.003	-.486
210	1226	-.118	.053	.005	-.458
210	1227	-.116	.054	.012	-.505
210	1228	-.111	.055	.018	-.480
210	1229	-.117	.056	.027	-.441
210	1230	-.169	.076	.007	-.609
210	1231	-.173	.081	.003	-.631
210	1232	-.152	.070	.014	-.573
210	1233	-.163	.071	-.004	-.604
210	1234	-.119	.052	.031	-.423
210	1235	-.130	.057	.027	-.429
210	1236	-.125	.055	.018	-.379
210	1237	-.187	.093	.034	-.959
210	1238	-.186	.096	.026	-.833
210	1239	-.165	.081	.057	-.803
210	1240	-.165	.082	.051	-.886
210	1241	-.170	.077	.027	-.760
210	1242	-.170	.074	-.002	-.669
210	1243	-.180	.088	-.007	-.648
210	1244	-.173	.089	.037	-.671
210	1245	-.139	.067	.010	-.599
210	1246	-.119	.058	.012	-.643
210	1247	-.091	.050	.032	-.417
210	1248	-.088	.041	.123	-.255
210	1249	-.101	.042	.077	-.331
210	1250	-.133	.055	.035	-.405
210	1251	-.167	.068	.036	-.471
210	1252	-.190	.080	.011	-.580
210	1253	-.192	.072	.012	-.582
210	1254	-.086	.044	.072	-.317
210	1255	-.179	.078	-.004	-.619
210	1256	-.182	.071	.009	-.662
210	1257	-.044	.044	.130	-.223
210	1258	-.029	.040	.112	-.176
210	1259	-.063	.046	.107	-.255
210	1260	-.033	.040	.095	-.171
210	1261	-.038	.043	.190	-.220
210	1262	-.054	.044	.077	-.257
210	1263	-.075	.055	.069	-.459
210	1264	-.037	.047	.210	-.218
210	1265	.031	.042	.226	-.127
210	1266	-.027	.040	.125	-.157
210	1267	-.041	.038	.124	-.183
210	1901	-.299	.134	.040	-1.035
210	1902	-.282	.111	.029	-.791
210	1903	-.295	.116	.032	-.814
210	1904	-.333	.126	-.031	-.933
210	1905	-.335	.101	-.092	-.736
210	1906	-.271	.125	.200	-.841
210	1907	-.219	.105	.112	-.732
210	1908	.041	.207	.792	-.561
210	1909	-.349	.131	.061	-.977
210	1910	-.251	.103	.067	-.861
210	1911	-.245	.107	.085	-.800
210	1912	-.259	.050	-.138	-.395
210	2301	-.163	.095	.116	-.828
210	2302	.062	.128	.560	-.443
210	2303	-.040	.137	.529	-.777
210	2304	-.086	.116	.403	-.809
210	2305	-.190	.112	.234	-.799
210	2306	-.162	.149	.481	-.746
210	2307	-.283	.131	.201	-.812
210	2308	-.326	.124	-.007	-.806
210	2309	-.332	.124	-.007	-.872
210	2310	-.414	.190	.238	-1.446
210	2311	-.150	.085	.115	-.679
210	2312	-.147	.079	.064	-.721
210	2313	-.025	.122	.468	-.552
210	2314	-.429	.179	.337	-1.308
210	2315	-.150	.084	.182	-.625
210	2316	-.154	.082	.088	-.679
210	2317	-.054	.117	.363	-.703
210	2318	-.068	.107	.419	-.599
210	2319	-.080	.096	.281	-.543
210	2320	-.097	.090	.188	-.520
210	2321	-.079	.132	.492	-.781
210	2322	-.111	.110	.234	-.583
210	2323	-.129	.123	.168	-.716
210	2324	-.127	.127	.261	-.635
210	2325	-.143	.111	.180	-.593
210	2326	-.176	.144	.239	-.835
210	2327	-.178	.121	.171	-.744
210	2328	-.207	.117	.092	-.738
210	2329	-.204	.191	.394	-1.193
210	2330	-.206	.152	.270	-.897
210	2331	-.204	.140	.166	-.754
210	2332	-.241	.187	.378	-1.163
210	2333	-.239	.163	.272	-.973
210	2334	-.266	.166	.260	-1.238
210	2335	-.265	.144	.213	-.988
210	2336	-.271	.132	.212	-.879
210	2337	-.318	.147	.084	-1.294
210	2338	-.300	.147	.103	-.971
210	2339	-.298	.144	.031	-.992
210	2340	-.315	.131	.027	-.862
210	2341	-.412	.174	.185	-1.149
210	2342	-.422	.169	.145	-1.140
210	2343	-.144	.087	.122	-.803
210	2344	-.159	.085	.051	-.748
210	2345	-.074	.123	.473	-.877
210	2346	-.132	.071	.127	-.646
210	2347	-.143	.076	.068	-.693
210	2348	-.071	.114	.388	-.618
210	2349	-.149	.082	.129	-.680
210	2350	-.055	.101	.313	-.624
210	2351	-.094	.106	.263	-.643
210	2352	-.110	.110	.255	-.632
210	2353	-.158	.113	.163	-.826
210	2354	-.196	.154	.234	-.947
210	2355	-.256	.154	.164	-1.053
210	2356	-.286	.145	.058	-1.193
210	2357	-.264	.128	.116	-.856
210	2358	-.372	.169	.246	-1.296
210	2359	-.071	.108	.323	-.597
210	2360	-.356	.177	.229	-1.240
210	2361	-.150	.081	.063	-.691
210	2362	-.132	.067	.097	-.652
210	2363	-.063	.109	.373	-.683
210	2364	-.146	.076	.068	-.637
210	2365	-.155	.075	.058	-.599
210	2366	-.052	.103	.331	-.670
210	2367	-.129	.065	.119	-.511
210	2368	-.056	.101	.262	-.709
210	2369	-.080	.094	.244	-.704

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	2370	-.088	.098	.258	-.687
210	2371	-.120	.098	.279	-.955
210	2372	-.102	.123	.313	-.861
210	2373	-.190	.140	.293	-1.128
210	2374	-.232	.131	.195	-1.095
210	2375	-.247	.138	.093	-1.175
210	2376	-.312	.164	.302	-1.339
210	2377	-.125	.061	.041	-.677
210	2378	-.131	.066	.028	-.598
210	2379	-.013	.083	.341	-.524
210	2380	-.113	.056	.049	-.426
210	2381	-.135	.060	.009	-.508
210	2382	-.021	.076	.320	-.489
210	2383	-.102	.057	.043	-.514
210	2384	-.123	.059	.018	-.512
210	2385	-.028	.074	.440	-.358
210	2386	-.017	.054	.221	-.320
210	2387	-.018	.053	.204	-.432
210	2388	-.050	.049	.113	-.470
210	2389	-.057	.056	.146	-.464
210	2390	-.080	.066	.252	-.574
210	2391	-.052	.098	.263	-.680
210	2392	-.149	.132	.258	-.978
210	2393	-.219	.154	.212	-1.127
210	2394	-.208	.133	.070	-.922
210	2395	-.178	.101	.029	-.984
210	2396	-.212	.124	.071	-.990
210	2397	-.289	.160	.376	-1.156
210	2398	-.283	.152	.196	-1.233
210	2399	-.122	.070	.060	-.488
210	2400	-.145	.070	.025	-.500
210	2401	-.028	.064	-.283	-.324
210	2402	-.183	.084	-.012	-.583
210	2403	-.139	.065	.013	-.557
210	2404	-.020	.047	.232	-.197
210	2405	-.194	.075	.002	-.755
210	2406	-.039	.042	.205	-.178
210	2407	-.020	.041	.117	-.148
210	2408	-.035	.039	.111	-.220
210	2409	-.069	.042	.109	-.251
210	2410	-.021	.046	.210	-.183
210	2411	.000	.050	.256	-.209
210	2412	-.066	.062	.137	-.423
210	2413	-.080	.066	.105	-.674
210	2414	-.112	.093	.156	-.585
210	2415	-.071	.051	.081	-.368
210	2416	-.034	.061	.393	-.383
210	2417	-.045	.053	.190	-.285
210	2418	.003	.044	.219	-.167
210	3101	.138	.236	.821	-1.062
210	3102	.322	.162	1.135	-.097
210	3103	.286	.163	1.001	-.096
210	3104	.271	.157	.996	-.146
210	3105	.293	.162	.953	-.153
210	3106	.263	.165	.939	-.348
210	3107	.228	.164	1.029	-.163
210	3108	.274	.167	.895	-.197
210	3109	.317	.175	1.071	-.174
210	3110	-.086	.282	.918	-1.132
210	3111	.283	.170	1.018	-.155
210	3112	-.275	.238	.554	-1.420
210	3113	-.085	.233	.648	-1.119
210	3114	.275	.169	.993	-.145
210	3115	-.258	.269	.682	-1.299
210	3116	-.141	.239	.650	-1.207
210	3117	.260	.156	.915	-.205
210	3118	.256	.149	1.037	-.208
210	3119	.295	.159	1.052	-.074
210	3120	.310	.157	.968	-.094
210	3121	.329	.166	1.076	-.070
210	3122	.321	.164	1.035	-.057
210	3123	.254	.158	.932	-.106
210	3124	-.138	.274	.832	-1.252
210	3125	.294	.151	.937	-.051
210	3126	.299	.158	.913	-.041
210	3127	.305	.160	.932	-.055
210	3128	.309	.160	.926	-.038
210	3129	.331	.148	1.130	-.037
210	3130	.318	.152	1.021	-.110
210	3131	.303	.154	.957	-.079
210	3132	.313	.149	.979	-.061
210	3133	.310	.147	.967	-.035
210	3134	.298	.149	.944	-.052
210	3135	.259	.149	.986	-.077
210	3136	.254	.145	.886	-.146
210	3137	-.315	.211	.368	-1.177
210	3138	-.302	.254	.729	-1.257
210	3139	-.152	.237	.628	-1.323
210	3140	.268	.146	.883	-.078
210	3141	.307	.155	1.013	-.113
210	3142	.302	.158	.979	-.127
210	3143	.310	.163	.944	-.091
210	3144	.298	.163	.893	-.085
210	3145	.217	.145	.888	-.143
210	3146	-.131	.271	.803	-1.130
210	3147	-.171	.244	.606	-1.089
210	3148	.233	.141	.957	-.141
210	3149	.245	.149	.818	-.105
210	3150	.200	.140	.934	-.183
210	3151	-.347	.227	.337	-1.377
210	3152	-.324	.258	.664	-1.439
210	3153	-.332	.227	.490	-1.329
210	3154	-.149	.254	.705	-1.350
210	3155	-.188	.232	.579	-1.260
210	3156	.210	.129	.861	-.129
210	3157	.208	.134	.978	-.178
210	3158	.169	.133	.758	-.173
210	3159	-.322	.216	.491	-1.477
210	3160	-.297	.246	.630	-1.576
210	3161	-.157	.252	.688	-1.107
210	3162	-.212	.227	.432	-1.104
210	3163	.207	.129	.865	-.098
210	3164	.225	.130	.827	-.066
210	3165	.224	.124	.841	-.053
210	3166	.237	.129	.864	-.077
210	3167	.225	.131	.780	-.076
210	3168	.204	.127	.720	-.095
210	3169	.180	.120	.886	-.105
210	3170	.165	.120	.784	-.185
210	3171	-.348	.206	.340	-1.216
210	3172	-.317	.230	.578	-1.193
210	3173	.172	.119	.776	-.143
210	3174	-.346	.211	.422	-1.270
210	3175	-.159	.229	.494	-1.168
210	3176	-.201	.207	.449	-1.136
210	3177	.153	.113	.816	-.336
210	3178	.154	.113	.818	-.217
210	3179	.112	.106	.705	-.163
210	3180	-.325	.207	.398	-1.463
210	3181	-.310	.229	.668	-1.530
210	3182	-.110	.237	.579	-1.439
210	3183	-.161	.222	.601	-1.360
210	3184	.139	.105	.774	-.217
210	3185	.157	.108	.693	-.115
210	3186	.117	.104	.601	-.164
210	3187	-.342	.196	.374	-1.191
210	3188	-.315	.223	.386	-1.315
210	3189	-.128	.228	.448	-1.189
210	3190	-.178	.217	.480	-1.193
210	3191	.136	.092	.579	-.123
210	3192	.151	.098	.588	-.131
210	3193	.173	.098	.568	-.083
210	3194	.177	.100	.637	-.079
210	3195	.160	.101	.678	-.103
210	3196	.140	.094	.708	-.131
210	3197	.117	.098	.648	-.171
210	3198	.103	.099	.644	-.303
210	3199	-.315	.214	.626	-1.295
210	3200	-.100	.212	.591	-1.122
210	3201	-.164	.199	.398	-1.304

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	3202	.108	.083	.473	-.161
210	3203	.115	.082	.516	-.183
210	3204	.076	.088	.559	-.200
210	3205	-.322	.195	.395	-1.460
210	3206	-.293	.199	.261	-1.290
210	3207	-.104	.185	.454	-1.116
210	3208	-.144	.177	.449	-1.068
210	3209	.100	.085	.533	-.201
210	3210	.104	.082	.528	-.168
210	3211	.055	.076	.521	-.190
210	3212	-.292	.170	.230	-1.136
210	3213	-.342	.250	.513	-2.084
210	3214	.089	.079	.483	-.180
210	3215	-.365	.229	.254	-1.978
210	3216	-.085	.210	.565	-1.405
210	3217	-.116	.200	.566	-1.058
210	3218	.122	.092	.716	-.228
210	3219	.129	.090	.705	-.152
210	3220	.122	.085	.676	-.138
210	3221	.134	.093	.700	-.138
210	3222	.124	.087	.619	-.133
210	3223	.096	.085	.607	-.139
210	3224	.076	.082	.602	-.160
210	3225	.031	.075	.348	-.247
210	3226	.051	.081	.426	-.221
210	3227	.043	.084	.446	-.255
210	3228	.040	.086	.416	-.277
210	3229	-.359	.218	.333	-1.306
210	3230	-.006	.156	.480	-.816
210	3231	-.052	.167	.481	-.793
210	3232	.107	.088	.530	-.250
210	3233	.094	.077	.467	-.125
210	3234	-.025	.061	.304	-.291
210	3235	-.346	.189	.390	-1.231
210	3236	-.309	.193	.312	-1.192
210	3237	.018	.125	.399	-.802
210	3238	-.016	.138	.389	-.936
210	3239	.084	.081	.524	-.291
210	3240	.087	.078	.483	-.242
210	3241	-.289	.144	.070	-.984
210	3242	-.265	.136	.057	-.896
210	3243	.053	.080	.400	-.404
210	3244	.027	.097	.409	-.554
210	3245	.081	.077	.399	-.158
210	3246	.083	.075	.394	-.157
210	3247	.053	.058	.359	-.179
210	3248	.054	.057	.302	-.170
210	3249	.043	.055	.270	-.191
210	3250	.026	.048	.289	-.182
210	3251	-.003	.044	.241	-.223
210	3252	-.021	.045	.223	-.304
210	3253	-.192	.097	.032	-.972
210	3254	-.061	.061	.345	-.167
210	3255	-.087	.063	.120	-.356
210	3256	.047	.076	.372	-.165
210	3257	.025	.049	.331	-.186
210	3258	.038	.044	.238	-.099
210	3259	-.048	.044	.115	-.250
210	3260	.087	.061	.389	-.094
210	3261	.014	.054	.313	-.153
210	3262	-.064	.047	.109	-.272
210	3263	-.023	.045	.168	-.240
210	3264	-.088	.045	.065	-.299
210	3265	-.038	.040	.088	-.253
210	3266	.070	.057	.422	-.200
210	3267	.079	.058	.338	-.087
210	4301	-.393	.164	.024	-1.240
210	4302	-.196	.112	.106	-.754
210	4303	-.336	.124	.010	-.945
210	4304	-.281	.124	.292	-.788
210	4305	-.226	.131	.314	-.818
210	4306	-.206	.115	.213	-.788
210	4307	-.176	.123	.270	-.776
210	4308	-.116	.124	.362	-.701
210	4309	-.126	.124	.514	-.703
210	4310	-.148	.089	.137	-.789
210	4311	-.418	.149	-.032	-1.086
210	4312	-.365	.157	.180	-1.250
210	4313	-.293	.118	.032	-.842
210	4314	-.154	.084	.106	-.637
210	4315	-.426	.163	-.022	-1.217
210	4316	-.384	.157	-.030	-1.121
210	4317	-.319	.122	-.002	-.928
210	4318	-.306	.124	.044	-.883
210	4319	-.334	.126	.035	-.845
210	4320	-.305	.131	.065	-1.006
210	4321	-.299	.120	.093	-.853
210	4322	-.282	.118	.183	-.786
210	4323	-.312	.135	.154	-1.002
210	4324	-.252	.120	.185	-.883
210	4325	-.280	.135	.201	-1.002
210	4326	-.229	.121	.144	-.741
210	4327	-.252	.133	.179	-.796
210	4328	-.225	.153	.285	-1.049
210	4329	-.214	.109	.110	-.669
210	4330	-.202	.111	.231	-.677
210	4331	-.220	.128	.265	-.826
210	4332	-.165	.101	.165	-.623
210	4333	-.180	.115	.211	-.600
210	4334	-.185	.119	.139	-.833
210	4335	-.175	.110	.154	-.627
210	4336	-.144	.125	.275	-.586
210	4337	-.152	.098	.201	-.595
210	4338	-.128	.097	.215	-.566
210	4339	-.114	.108	.410	-.618
210	4340	-.100	.111	.325	-.721
210	4341	-.157	.086	.069	-.740
210	4342	-.169	.094	.121	-.704
210	4343	-.398	.154	-.062	-1.416
210	4344	-.368	.150	.025	-1.349
210	4345	-.314	.123	-.012	-1.090
210	4346	-.314	.142	.014	-1.106
210	4347	-.376	.166	.025	-1.312
210	4348	-.272	.131	.042	-.984
210	4349	-.364	.171	.002	-1.516
210	4350	-.265	.127	.048	-.931
210	4351	-.290	.120	.067	-.967
210	4352	-.291	.124	.117	-.883
210	4353	-.228	.121	.185	-1.151
210	4354	-.217	.111	.142	-.902
210	4355	-.161	.101	.208	-.744
210	4356	-.163	.100	.342	-.617
210	4357	-.133	.106	.223	-.649
210	4358	-.174	.098	.113	-.823
210	4359	-.290	.122	-.008	-.965
210	4360	-.176	.098	.060	-.699
210	4361	-.342	.156	-.025	-1.229
210	4362	-.300	.139	.093	-1.006
210	4363	-.279	.127	.022	-1.161
210	4364	-.337	.155	.072	-1.750
210	4365	-.310	.147	.227	-1.634
210	4366	-.279	.126	.061	-1.433
210	4367	-.293	.136	.137	-1.065
210	4368	-.275	.123	.032	-1.016
210	4369	-.252	.120	.075	-.911
210	4370	-.264	.125	.078	-.818
210	4371	-.222	.120	.136	-.786
210	4372	-.202	.111	.149	-.868
210	4373	-.145	.103	.150	-.656
210	4374	-.151	.099	.135	-.637
210	4375	-.130	.101	.337	-.696
210	4376	-.170	.089	.077	-.754
210	4377	-.278	.144	.082	-1.186
210	4378	-.316	.135	-.005	-1.073
210	4379	-.239	.117	.024	-1.324
210	4380	-.262	.134	.075	-1.000
210	4381	-.324	.145	.236	-1.871
210	4382	-.261	.123	.035	-1.728
210	4383	-.269	.132	.062	-1.010
210	4384	-.278	.132	.114	-1.012

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	4385	-.266	.113	.014	-.887	225	141	-.196	.096	.046	-.672	225	1116	-.174	.078	.021	-.659
210	4386	-.217	.116	.093	-.990	225	142	-.212	.127	.318	-.925	225	1117	-.115	.050	.048	-.298
210	4387	-.228	.121	.156	-.975	225	143	-.203	.108	.092	-.862	225	1118	-.135	.049	.030	-.343
210	4388	-.257	.139	.163	-1.389	225	144	-.174	.091	.164	-.717	225	1119	-.151	.046	-.006	-.314
210	4389	-.264	.132	.134	-1.141	225	145	-.177	.083	.149	-.838	225	1120	-.129	.045	.007	-.283
210	4390	-.190	.121	.245	-.940	225	220	-.162	.070	.027	-.492	225	1121	-.119	.045	.010	-.351
210	4391	-.124	.089	.265	-.595	225	221	.138	.134	.819	-.630	225	1122	-.124	.046	.009	-.341
210	4392	-.112	.084	.193	-.532	225	230	.347	.195	1.124	-.169	225	1123	-.153	.050	.002	-.367
210	4393	-.136	.075	.134	-.526	225	231	-.034	.128	.728	-.534	225	1124	-.177	.081	.042	-.576
210	4394	-.113	.079	.268	-.487	225	310	-.236	.104	.043	-.624	225	1125	-.120	.044	.044	-.317
210	4395	-.100	.076	.188	-.504	225	320	-.232	.093	-.001	-.649	225	1126	-.122	.043	.032	-.296
210	4396	-.089	.098	.294	-.520	225	321	-.245	.175	.375	-.892	225	1127	-.144	.043	.002	-.327
210	4397	-.197	.083	-.003	-.666	225	322	-.300	.107	.031	-.795	225	1128	-.128	.042	.018	-.305
210	4398	-.175	.084	.028	-.687	225	323	-.124	.241	.615	-1.009	225	1129	-.113	.044	.034	-.289
210	4399	-.239	.134	.140	-1.008	225	324	-.391	.145	.027	-1.451	225	1130	-.125	.045	.027	-.282
210	4400	-.239	.131	.123	-.909	225	325	-.305	.256	.465	-1.406	225	1131	-.148	.047	.012	-.319
210	4401	-.249	.126	-.003	-1.014	225	330	.171	.143	.764	-.186	225	1132	-.131	.046	.026	-.300
210	4402	-.204	.109	.047	-.912	225	331	.327	.183	1.136	-.236	225	1133	-.108	.047	.058	-.308
210	4403	-.172	.099	.086	-.732	225	332	.225	.208	.963	-.674	225	1134	-.128	.048	.039	-.332
210	4404	-.183	.112	.081	-1.094	225	410	-.237	.091	.028	-.595	225	1135	-.147	.051	.032	-.370
210	4405	-.166	.078	.049	-.671	225	411	-.262	.116	.028	-.820	225	1136	-.141	.051	.042	-.376
210	4406	-.114	.065	.155	-.522	225	440	-.264	.098	-.001	-.850	225	1137	-.135	.060	.076	-.516
210	4407	-.098	.080	.147	-.506	225	441	-.234	.088	.034	-.737	225	1138	-.134	.057	.020	-.603
210	4408	-.090	.082	.182	-.474	225	901	-.050	.139	.609	-.753	225	1139	-.169	.082	.067	-.633
210	4409	-.084	.065	.164	-.422	225	902	.020	.087	.397	-.301	225	1140	-.124	.049	.009	-.365
210	4410	-.063	.056	.188	-.307	225	903	-.056	.080	.317	-.471	225	1141	-.123	.047	.014	-.282
210	4411	-.036	.048	.246	-.199	225	904	-.020	.093	.435	-.431	225	1142	-.123	.048	.016	-.313
210	4412	-.044	.047	.154	-.256	225	905	-.042	.081	.325	-.308	225	1143	-.124	.049	.015	-.359
210	4413	-.045	.049	.183	-.283	225	906	-.156	.070	.106	-.486	225	1144	-.122	.050	.023	-.354
210	4414	-.173	.105	.155	-.855	225	907	-.185	.086	.161	-.578	225	1145	-.121	.049	.045	-.317
210	4415	-.101	.064	.095	-.525	225	908	-.332	.103	.023	-.736	225	1146	-.165	.079	.025	-.585
210	4416	-.094	.067	.107	-.733	225	909	-.082	.068	.180	-.393	225	1147	-.172	.082	-.022	-.560
210	4417	-.096	.047	.064	-.335	225	910	-.083	.069	.160	-.393	225	1148	-.129	.047	-.000	-.342
210	4418	-.057	.043	.120	-.248	225	911	-.090	.070	.148	-.435	225	1149	-.133	.047	.033	-.346
210	4419	-.081	.040	.067	-.247	225	912	-.093	.029	-.006	-.197	225	1150	-.123	.049	.021	-.352
210	4420	-.063	.037	.062	-.194	225	1101	-.177	.092	.039	-.600	225	1151	-.135	.055	.044	-.496
210	4421	-.061	.042	.082	-.311	225	1102	-.130	.059	.051	-.419	225	1152	-.132	.053	.034	-.456
210	4422	-.043	.038	.114	-.173	225	1103	-.149	.055	.024	-.405	225	1153	-.133	.057	.028	-.431
210	4423	-.046	.039	.128	-.179	225	1104	-.123	.048	.037	-.343	225	1154	-.167	.080	.046	-.537
210	4424	-.036	.041	.162	-.186	225	1105	-.106	.045	.060	-.251	225	1155	-.176	.085	.044	-.576
210	9901	-.014	.048	.247	-.196	225	1106	-.109	.047	.042	-.268	225	1156	-.131	.049	.018	-.310
210	9902	-.042	.037	.084	-.179	225	1107	-.127	.052	.048	-.324	225	1157	-.136	.050	.050	-.327
210	9903	-.050	.037	.055	-.200	225	1108	-.148	.052	.033	-.360	225	1158	-.126	.054	.048	-.601
210	9904	-.048	.033	.070	-.215	225	1109	-.125	.051	-.006	-.341	225	1159	-.138	.064	.058	-.918
210	9905	-.047	.037	.072	-.156	225	1110	-.150	.059	-.001	-.433	225	1160	-.134	.061	.044	-.832
225	110	-.192	.090	.051	-.702	225	1111	-.158	.054	.014	-.435	225	1161	-.171	.076	.038	-.580
225	111	-.229	.105	.014	-.717	225	1112	-.154	.060	.016	-.481	225	1162	-.177	.081	.041	-.576
225	112	-.265	.137	.040	-.904	225	1113	-.156	.079	.034	-.679	225	1163	-.136	.051	.029	-.720
225	130	.014	.144	.767	-.455	225	1114	-.127	.050	.020	-.332	225	1164	-.130	.047	.025	-.338
225	140	-.206	.110	.133	-.843	225	1115	-.162	.057	.037	-.605	225	1165	-.128	.043	.026	-.303

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
225	1166	-.124	.044	.032	-.313
225	1167	-.128	.046	.034	-.326
225	1168	-.126	.048	.048	-.359
225	1169	-.126	.051	.021	-.367
225	1170	-.125	.053	.037	-.375
225	1171	-.137	.062	.020	-.468
225	1172	-.134	.059	.018	-.460
225	1173	-.136	.049	.031	-.353
225	1174	-.140	.065	.039	-.686
225	1175	-.179	.078	.018	-.645
225	1176	-.186	.082	.021	-.647
225	1177	-.137	.052	.021	-.341
225	1178	-.138	.052	.018	-.338
225	1179	-.129	.058	.008	-.463
225	1180	-.140	.069	.048	-.622
225	1181	-.143	.069	.040	-.644
225	1182	-.190	.081	.002	-.537
225	1183	-.196	.084	.001	-.645
225	1184	-.143	.052	-.005	-.352
225	1185	-.142	.051	.017	-.343
225	1186	-.134	.067	.034	-.679
225	1187	-.147	.079	.029	-.854
225	1188	-.143	.075	.030	-.774
225	1189	-.193	.087	.031	-.767
225	1190	-.196	.090	.046	-.727
225	1191	-.149	.055	.006	-.367
225	1192	-.146	.054	.025	-.361
225	1193	-.147	.054	.002	-.398
225	1194	-.137	.051	.009	-.320
225	1195	-.138	.051	.006	-.331
225	1196	-.140	.056	.027	-.398
225	1197	-.136	.061	-.002	-.547
225	1198	-.135	.064	.002	-.583
225	1199	-.146	.074	.020	-.739
225	1200	-.188	.079	.007	-.666
225	1201	-.196	.082	.090	-.805
225	1202	-.157	.060	-.007	-.667
225	1203	-.157	.058	-.008	-.487
225	1204	-.133	.066	.025	-.874
225	1205	-.143	.076	.028	-.713
225	1206	-.139	.068	.021	-.542
225	1207	-.185	.070	-.008	-.565
225	1208	-.186	.071	-.012	-.560
225	1209	-.157	.057	.021	-.410
225	1210	-.160	.056	.005	-.430
225	1211	-.117	.057	.058	-.458
225	1212	-.137	.076	.067	-.925
225	1213	-.155	.076	.049	-.719
225	1214	-.168	.064	.041	-.517
225	1215	-.156	.079	.039	-.886
225	1216	-.217	.082	.021	-.743
225	1217	-.216	.079	-.036	-.779
225	1218	-.199	.072	.000	-.623
225	1219	-.193	.068	.044	-.549
225	1220	-.194	.071	.009	-.597
225	1221	-.187	.064	-.017	-.445
225	1222	-.159	.052	.005	-.420
225	1223	-.154	.051	.005	-.366
225	1224	-.146	.055	.035	-.502
225	1225	-.149	.058	.010	-.467
225	1226	-.143	.058	.019	-.502
225	1227	-.140	.060	.034	-.640
225	1228	-.137	.061	.056	-.705
225	1229	-.158	.072	.063	-.661
225	1230	-.227	.082	-.007	-.733
225	1231	-.226	.087	-.005	-.792
225	1232	-.210	.076	.018	-.665
225	1233	-.203	.084	-.036	-.668
225	1234	-.150	.066	.031	-.539
225	1235	-.163	.077	.046	-.854
225	1236	-.157	.072	.023	-.658
225	1237	-.209	.087	.010	-.719
225	1238	-.202	.089	.017	-.695
225	1239	-.188	.077	.003	-.688
225	1240	-.187	.081	-.005	-.710
225	1241	-.208	.100	.066	-.975
225	1242	-.204	.093	-.004	-.768
225	1243	-.194	.087	.003	-.814
225	1244	-.187	.088	.052	-.828
225	1245	-.173	.073	-.005	-.791
225	1246	-.144	.061	.054	-.446
225	1247	-.101	.050	.102	-.359
225	1248	-.125	.053	.035	-.412
225	1249	-.134	.048	-.009	-.382
225	1250	-.168	.062	-.021	-.551
225	1251	-.204	.079	-.007	-.770
225	1252	-.226	.092	.037	-1.086
225	1253	-.235	.091	-.029	-.748
225	1254	-.104	.047	-.066	-.350
225	1255	-.230	.088	-.004	-.724
225	1256	-.219	.082	.002	-.573
225	1257	-.062	.044	.075	-.232
225	1258	-.036	.039	.110	-.163
225	1259	-.089	.055	.073	-.337
225	1260	-.041	.041	.101	-.211
225	1261	-.044	.041	.136	-.203
225	1262	-.068	.045	.134	-.336
225	1263	-.109	.069	.063	-.645
225	1264	-.048	.054	.191	-.332
225	1265	.035	.047	.278	-.123
225	1266	-.037	.039	.096	-.166
225	1267	-.051	.040	.077	-.195
225	1901	-.259	.111	.077	-1.050
225	1902	-.283	.090	.012	-.669
225	1903	-.319	.105	-.031	-.798
225	1904	-.357	.116	-.012	-.801
225	1905	-.327	.092	-.065	-.646
225	1906	-.309	.148	.246	-1.059
225	1907	-.194	.091	.179	-.660
225	1908	.108	.199	.792	-.540
225	1909	-.383	.136	.082	-.969
225	1910	-.263	.094	.158	-.602
225	1911	-.244	.100	.160	-.613
225	1912	-.258	.037	-.141	-.397
225	2301	-.174	.077	.087	-.739
225	2302	.193	.118	.729	-.252
225	2303	.099	.118	.729	-.506
225	2304	.028	.090	.402	-.333
225	2305	-.157	.090	.303	-.524
225	2306	-.052	.136	.601	-.586
225	2307	-.097	.177	.511	-.781
225	2308	-.284	.116	.397	-.945
225	2309	-.288	.110	.078	-.908
225	2310	-.277	.263	.482	-1.318
225	2311	-.163	.067	.029	-.529
225	2312	-.151	.062	.084	-.518
225	2313	.090	.110	.630	-.248
225	2314	-.250	.256	.581	-1.191
225	2315	-.153	.060	.058	-.555
225	2316	-.150	.057	.025	-.614
225	2317	.071	.100	.502	-.326
225	2318	.057	.092	.469	-.300
225	2319	.029	.074	.343	-.308
225	2320	.011	.068	.311	-.331
225	2321	.084	.106	.680	-.321
225	2322	.026	.076	.327	-.339
225	2323	.012	.074	.308	-.466
225	2324	.037	.090	.432	-.452
225	2325	.002	.078	.393	-.413
225	2326	-.024	.086	.549	-.449
225	2327	-.076	.070	.247	-.451
225	2328	-.084	.072	.332	-.554
225	2329	.050	.149	.703	-.890
225	2330	-.003	.122	.355	-.577
225	2331	-.017	.116	.321	-.526
225	2332	-.015	.187	.570	-.996
225	2333	-.022	.154	.399	-.660
225	2334	-.072	.185	.382	-1.243
225	2335	-.095	.188	.531	-.986
225	2336	-.116	.171	.442	-.868

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
225	2337	-.203	.191	.524	-1.100
225	2338	-.175	.139	.312	-.814
225	2339	-.176	.141	.268	-.911
225	2340	-.194	.138	.242	-.833
225	2341	-.252	.260	.542	-1.042
225	2342	-.271	.236	.603	-1.095
225	2343	-.155	.063	.078	-.509
225	2344	-.154	.062	.039	-.493
225	2345	.048	.095	.542	-.364
225	2346	-.154	.071	.110	-.724
225	2347	-.156	.066	.047	-.573
225	2348	.034	.090	.453	-.377
225	2349	-.167	.076	.058	-.741
225	2350	.021	.079	.352	-.461
225	2351	-.014	.071	.323	-.447
225	2352	-.008	.070	.247	-.464
225	2353	-.087	.082	.241	-.621
225	2354	-.022	.113	.299	-.718
225	2355	-.102	.161	.503	-1.033
225	2356	-.164	.147	.341	-1.169
225	2357	-.160	.157	.314	-1.423
225	2358	-.253	.211	.571	-1.314
225	2359	.017	.090	.430	-.314
225	2360	-.238	.227	.517	-1.138
225	2361	-.180	.081	.060	-.891
225	2362	-.153	.071	.024	-.797
225	2363	.017	.088	.373	-.417
225	2364	-.175	.084	.036	-.736
225	2365	-.173	.082	.028	-.724
225	2366	.013	.085	.462	-.504
225	2367	-.158	.078	.039	-.975
225	2368	-.014	.073	.406	-.377
225	2369	-.028	.062	.237	-.424
225	2370	-.027	.063	.257	-.468
225	2371	-.076	.065	.202	-.494
225	2372	-.014	.094	.263	-.573
225	2373	-.081	.135	.330	-.721
225	2374	-.142	.129	.317	-.790
225	2375	-.124	.118	.308	-.924
225	2376	-.183	.171	.417	-.923
225	2377	-.159	.080	.028	-.835
225	2378	-.163	.077	.047	-.692
225	2379	.020	.075	.389	-.399
225	2380	-.147	.075	.028	-.827
225	2381	-.184	.075	.004	-.640
225	2382	-.016	.070	.271	-.404
225	2383	-.136	.074	.037	-.674
225	2384	-.164	.073	.002	-.601
225	2385	-.038	.070	.247	-.352
225	2386	-.020	.054	.277	-.265
225	2387	-.007	.046	.239	-.271
225	2388	-.046	.044	.113	-.297
225	2389	-.057	.048	.118	-.372
225	2390	-.063	.052	.156	-.435
225	2391	-.004	.063	.304	-.732
225	2392	-.061	.085	.206	-.657
225	2393	-.115	.100	.208	-.785
225	2394	-.105	.090	.156	-.624
225	2395	-.100	.089	.162	-.683
225	2396	-.100	.100	.237	-.931
225	2397	-.158	.151	.350	-1.086
225	2398	-.154	.143	.268	-1.080
225	2399	-.155	.076	.035	-.608
225	2400	-.179	.076	.011	-.625
225	2401	-.051	.056	.208	-.261
225	2402	-.237	.096	-.049	-.782
225	2403	-.203	.090	-.014	-.654
225	2404	-.035	.053	.244	-.215
225	2405	-.280	.096	-.027	-.792
225	2406	-.046	.040	.149	-.220
225	2407	-.031	.038	.159	-.169
225	2408	-.033	.038	.108	-.227
225	2409	-.065	.044	.100	-.259
225	2410	-.017	.044	.136	-.264
225	2411	.010	.050	.195	-.295
225	2412	-.040	.066	.138	-.513
225	2413	-.042	.061	.130	-.529
225	2414	-.086	.092	.158	-.599
225	2415	-.108	.059	.105	-.431
225	2416	-.017	.060	.220	-.581
225	2417	-.085	.062	.118	-.362
225	2418	.006	.044	.163	-.140
225	3101	.293	.197	1.061	-.635
225	3102	.329	.180	1.235	-.217
225	3103	.295	.180	1.222	-.163
225	3104	.268	.174	1.179	-.181
225	3105	.288	.156	.940	-.072
225	3106	.206	.171	.898	-.482
225	3107	.194	.165	1.148	-.180
225	3108	.237	.161	.991	-.150
225	3109	.300	.165	.945	-.147
225	3110	-.249	.215	.660	-1.155
225	3111	.307	.174	1.085	-.145
225	3112	-.332	.167	.297	-1.129
225	3113	.197	.221	1.001	-.737
225	3114	.250	.151	.781	-.210
225	3115	-.366	.180	.427	-1.084
225	3116	.144	.233	.930	-.760
225	3117	.248	.152	.857	-.217
225	3118	.323	.162	.973	-.086
225	3119	.320	.167	1.085	-.101
225	3120	.316	.162	1.055	-.069
225	3121	.290	.143	.959	-.057
225	3122	.299	.145	.920	-.015
225	3123	.207	.134	.765	-.143
225	3124	.141	.246	.849	-.885
225	3125	.342	.149	.947	-.118
225	3126	.335	.155	.944	-.105
225	3127	.322	.156	.969	-.107
225	3128	.320	.151	.955	-.093
225	3129	.345	.146	.954	.003
225	3130	.317	.149	.956	-.015
225	3131	.242	.158	.943	-.150
225	3132	.298	.147	.837	-.013
225	3133	.275	.141	.918	-.111
225	3134	.260	.145	.920	-.142
225	3135	.210	.140	.873	-.186
225	3136	.229	.150	.884	-.189
225	3137	-.313	.155	.213	-1.048
225	3138	-.310	.172	.592	-1.129
225	3139	.059	.229	.828	-1.060
225	3140	.301	.156	1.005	-.078
225	3141	.316	.155	.985	-.038
225	3142	.298	.152	.932	-.041
225	3143	.268	.154	.828	-.301
225	3144	.262	.147	.775	-.181
225	3145	.217	.145	.905	-.163
225	3146	.109	.240	.850	-1.004
225	3147	.070	.238	.783	-1.042
225	3148	.291	.152	1.008	-.056
225	3149	.291	.150	.872	-.121
225	3150	.185	.134	.787	-.208
225	3151	-.326	.148	.226	-1.010
225	3152	-.325	.162	.433	-.997
225	3153	-.333	.161	.178	-1.078
225	3154	.095	.228	.753	-1.014
225	3155	.053	.231	.770	-.983
225	3156	.276	.144	.949	-.102
225	3157	.249	.141	.819	-.096
225	3158	.155	.124	.755	-.148
225	3159	-.334	.162	.276	-1.250
225	3160	-.333	.175	.318	-1.276
225	3161	.076	.216	.822	-.975
225	3162	.030	.222	.806	-1.089
225	3163	.235	.127	.753	-.206
225	3164	.251	.127	.753	-.124
225	3165	.245	.131	.769	-.060
225	3166	.232	.126	.709	-.067
225	3167	.189	.119	.653	-.076
225	3168	.176	.109	.614	-.105

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
225	3169	.143	.107	.734	-.128
225	3170	.146	.118	.648	-.242
225	3171	-.322	.147	.134	-1.010
225	3172	-.317	.155	.228	-1.002
225	3173	.205	.125	.727	-.126
225	3174	-.340	.150	.156	-1.082
225	3175	.031	.201	.613	-.910
225	3176	-.009	.199	.614	-.870
225	3177	.190	.126	.824	-.281
225	3178	.192	.127	.804	-.203
225	3179	.113	.107	.613	-.171
225	3180	-.324	.149	.164	-1.063
225	3181	-.319	.162	.341	-1.111
225	3182	.039	.169	.585	-.735
225	3183	.002	.169	.521	-.705
225	3184	.158	.111	.717	-.188
225	3185	.177	.119	.855	-.108
225	3186	.090	.101	.600	-.191
225	3187	-.337	.141	.104	-1.072
225	3188	-.333	.156	.303	-1.107
225	3189	.031	.158	.596	-.705
225	3190	-.007	.168	.576	-.839
225	3191	.149	.109	.695	-.149
225	3192	.162	.115	.748	-.132
225	3193	.159	.099	.619	-.186
225	3194	.154	.097	.573	-.162
225	3195	.126	.093	.553	-.151
225	3196	.109	.083	.511	-.107
225	3197	.083	.081	.516	-.126
225	3198	.081	.088	.537	-.172
225	3199	-.326	.149	.326	-1.222
225	3200	.022	.136	.519	-.733
225	3201	-.021	.134	.411	-.833
225	3202	.108	.085	.597	-.152
225	3203	.112	.084	.603	-.174
225	3204	.046	.083	.453	-.247
225	3205	-.344	.148	.097	-1.359
225	3206	-.341	.149	.129	-1.230
225	3207	.003	.129	.416	-.658
225	3208	-.026	.130	.426	-.689
225	3209	.099	.081	.644	-.158
225	3210	.100	.079	.622	-.145
225	3211	.027	.074	.326	-.228
225	3212	-.347	.149	.098	-1.266
225	3213	-.409	.199	.314	-1.418
225	3214	.087	.074	.503	-.099
225	3215	-.420	.190	.200	-1.302
225	3216	.025	.127	.542	-.876
225	3217	-.014	.123	.457	-.664
225	3218	.106	.086	.520	-.196
225	3219	.112	.087	.525	-.223
225	3220	.108	.082	.498	-.181
225	3221	.111	.085	.538	-.137
225	3222	.097	.081	.428	-.132
225	3223	.054	.081	.432	-.181
225	3224	.032	.071	.396	-.206
225	3225	-.004	.068	.326	-.242
225	3226	.019	.073	.384	-.194
225	3227	.015	.081	.421	-.261
225	3228	.011	.084	.389	-.274
225	3229	-.420	.192	.178	-1.435
225	3230	.041	.100	.428	-.570
225	3231	.008	.108	.364	-.685
225	3232	.097	.081	.712	-.192
225	3233	.103	.086	.509	-.161
225	3234	-.049	.060	.180	-.354
225	3235	-.420	.184	.002	-1.385
225	3236	-.405	.186	.040	-1.417
225	3237	.052	.077	.466	-.447
225	3238	.034	.084	.419	-.611
225	3239	.086	.076	.593	-.183
225	3240	.089	.075	.582	-.204
225	3241	-.355	.157	-.032	-1.230
225	3242	-.332	.149	-.026	-1.136
225	3243	.069	.072	.378	-.200
225	3244	.050	.076	.391	-.306
225	3245	.072	.074	.607	-.218
225	3246	.077	.073	.620	-.141
225	3247	.063	.059	.390	-.158
225	3248	.048	.054	.321	-.165
225	3249	.025	.052	.316	-.161
225	3250	.005	.045	.244	-.157
225	3251	-.026	.041	.191	-.164
225	3252	-.039	.043	.193	-.204
225	3253	-.261	.117	-.004	-1.096
225	3254	.064	.064	.432	-.214
225	3255	-.095	.065	.091	-.423
225	3256	.025	.075	.384	-.209
225	3257	.032	.049	.290	-.159
225	3258	.030	.046	.247	-.109
225	3259	-.088	.044	.056	-.275
225	3260	.073	.061	.365	-.146
225	3261	-.018	.049	.225	-.159
225	3262	-.097	.044	.045	-.329
225	3263	-.048	.042	.115	-.282
225	3264	-.124	.045	.000	-.334
225	3265	-.048	.041	.088	-.240
225	3266	.060	.056	.357	-.125
225	3267	.069	.058	.335	-.121
225	4301	-.242	.096	.043	-.794
225	4302	-.096	.074	.092	-.536
225	4303	-.241	.081	-.017	-.644
225	4304	-.212	.081	.029	-.634
225	4305	-.222	.086	.085	-.654
225	4306	-.187	.092	.195	-.561
225	4307	-.201	.097	.098	-.642
225	4308	-.157	.084	.126	-.539
225	4309	-.186	.089	.107	-.545
225	4310	-.181	.089	.090	-.615
225	4311	-.262	.094	.039	-.860
225	4312	-.226	.095	.044	-.790
225	4313	-.189	.078	.054	-.659
225	4314	-.193	.094	.049	-.621
225	4315	-.249	.094	.022	-.664
225	4316	-.224	.094	.094	-.639
225	4317	-.201	.081	.058	-.608
225	4318	-.194	.085	.076	-.648
225	4319	-.215	.088	.066	-.664
225	4320	-.190	.089	.097	-.691
225	4321	-.202	.086	.075	-.695
225	4322	-.213	.093	.103	-.762
225	4323	-.238	.105	.069	-1.063
225	4324	-.197	.095	.104	-.944
225	4325	-.227	.102	.107	-.992
225	4326	-.195	.086	.212	-.727
225	4327	-.226	.095	.196	-.847
225	4328	-.203	.104	.203	-.872
225	4329	-.188	.081	.097	-.603
225	4330	-.192	.087	.140	-.700
225	4331	-.216	.093	.103	-.825
225	4332	-.168	.079	.121	-.574
225	4333	-.196	.087	.092	-.678
225	4334	-.202	.086	.042	-.670
225	4335	-.211	.082	.037	-.676
225	4336	-.186	.086	.179	-.646
225	4337	-.205	.083	.056	-.608
225	4338	-.186	.084	.141	-.556
225	4339	-.186	.090	.172	-.589
225	4340	-.191	.101	.198	-.959
225	4341	-.211	.096	.019	-.700
225	4342	-.210	.101	.081	-.739
225	4343	-.257	.100	.037	-.722
225	4344	-.233	.104	.062	-.723
225	4345	-.213	.086	.032	-.576
225	4346	-.226	.103	.014	-1.087
225	4347	-.257	.098	.054	-.916
225	4348	-.184	.083	.111	-1.073
225	4349	-.246	.097	.049	-.878
225	4350	-.205	.085	.046	-.693
225	4351	-.206	.084	.106	-.897

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
225	4352	-.234	.088	.091	-.737
225	4353	-.202	.093	.084	-.741
225	4354	-.209	.082	.063	-.644
225	4355	-.209	.087	.037	-.692
225	4356	-.237	.093	.049	-.681
225	4357	-.198	.095	.157	-.697
225	4358	-.234	.107	.080	-.732
225	4359	-.211	.085	.046	-.828
225	4360	-.229	.093	.049	-.651
225	4361	-.235	.099	.062	-.927
225	4362	-.239	.107	.006	-.951
225	4363	-.210	.088	.027	-.784
225	4364	-.275	.102	.005	-1.014
225	4365	-.244	.101	.022	-1.034
225	4366	-.240	.090	.012	-.761
225	4367	-.248	.105	-.014	-1.065
225	4368	-.258	.095	.015	-1.021
225	4369	-.223	.094	.037	-.919
225	4370	-.246	.096	.015	-.902
225	4371	-.229	.093	.034	-.806
225	4372	-.241	.088	-.010	-.752
225	4373	-.195	.082	.126	-.572
225	4374	-.213	.081	.100	-.574
225	4375	-.208	.086	.179	-.630
225	4376	-.244	.087	.005	-.737
225	4377	-.243	.101	.058	-.846
225	4378	-.294	.115	-.049	-1.128
225	4379	-.220	.093	.070	-.774
225	4380	-.244	.107	.030	-.863
225	4381	-.318	.121	-.013	-1.062
225	4382	-.258	.105	.045	-1.013
225	4383	-.264	.124	.027	-1.235
225	4384	-.289	.125	.009	-1.239
225	4385	-.289	.115	.002	-1.300
225	4386	-.235	.113	.055	-1.139
225	4387	-.231	.103	.060	-1.149
225	4388	-.257	.113	.032	-1.451
225	4389	-.286	.104	.014	-.855
225	4390	-.249	.092	.035	-.780
225	4391	-.203	.095	.070	-.885
225	4392	-.195	.087	.146	-.599
225	4393	-.215	.081	.070	-.597
225	4394	-.187	.083	.111	-.581
225	4395	-.178	.070	.138	-.519
225	4396	-.183	.091	.377	-.667
225	4397	-.244	.084	-.041	-.711
225	4398	-.209	.084	.028	-.802
225	4399	-.258	.128	.039	-1.025
225	4400	-.282	.130	.065	-1.276
225	4401	-.293	.126	.083	-.999
225	4402	-.238	.114	.068	-.906
225	4403	-.211	.102	.048	-1.018
225	4404	-.232	.105	.027	-.861
225	4405	-.232	.095	.030	-.893
225	4406	-.169	.072	.085	-.612
225	4407	-.174	.092	.082	-.750
225	4408	-.185	.100	.273	-.667
225	4409	-.148	.082	.222	-.559
225	4410	-.099	.067	.270	-.374
225	4411	-.064	.056	.217	-.332
225	4412	-.067	.057	.242	-.294
225	4413	-.062	.055	.188	-.364
225	4414	-.152	.094	.114	-.954
225	4415	-.168	.088	.041	-.721
225	4416	-.096	.059	.089	-.521
225	4417	-.141	.055	.027	-.607
225	4418	-.072	.043	.078	-.293
225	4419	-.123	.044	.027	-.304
225	4420	-.100	.042	.027	-.333
225	4421	-.098	.060	.118	-.519
225	4422	-.063	.046	.131	-.281
225	4423	-.066	.049	.156	-.264
225	4424	-.049	.047	.171	-.189
225	9901	-.045	.049	.221	-.245
225	9902	-.075	.038	.063	-.260
225	9903	-.083	.038	.042	-.256
225	9904	-.060	.037	.066	-.213
225	9905	-.059	.038	.094	-.187
240	110	-.245	.093	.013	-.750
240	111	-.339	.121	-.041	-.817
240	112	-.380	.147	-.033	-1.051
240	130	-.151	.165	.787	-.415
240	140	-.274	.104	.011	-.887
240	141	-.262	.099	-.009	-.775
240	142	-.275	.125	.135	-1.024
240	143	-.265	.098	-.004	-.915
240	144	-.215	.083	.002	-.744
240	145	-.218	.081	-.011	-.673
240	220	.199	.075	.017	-.704
240	221	.302	.152	.853	-.286
240	230	.446	.191	1.135	-.219
240	231	-.196	.113	.215	-.597
240	310	-.320	.112	-.005	-.727
240	320	-.264	.085	-.004	-.590
240	321	-.015	.184	.684	-.732
240	322	-.387	.117	.090	-.865
240	323	.338	.239	1.088	-.768
240	324	-.554	.194	.266	-1.391
240	325	.056	.281	.800	-1.197
240	330	.131	.126	.615	-.298
240	331	.467	.192	1.242	-.235
240	332	-.033	.231	.702	-.772
240	410	-.257	.084	-.011	-.587
240	411	-.291	.104	-.022	-.709
240	440	-.252	.092	-.002	-.861
240	441	-.230	.083	-.013	-.755
240	901	-.163	.145	.524	-.785
240	902	.008	.102	.559	-.348
240	903	-.022	.075	.265	-.364
240	904	.072	.110	.648	-.279
240	905	.036	.087	.443	-.215
240	906	-.120	.074	.164	-.362
240	907	-.158	.082	.238	-.477
240	908	-.317	.102	.041	-.859
240	909	-.043	.073	.223	-.347
240	910	-.043	.081	.248	-.455
240	911	-.036	.073	.183	-.456
240	912	-.033	.052	.113	-.218
240	1101	-.217	.096	.009	-.813
240	1102	-.174	.062	-.001	-.493
240	1103	-.160	.056	.016	-.447
240	1104	-.152	.053	.008	-.410
240	1105	-.156	.052	.026	-.386
240	1106	-.164	.053	-.004	-.414
240	1107	-.177	.053	-.039	-.423
240	1108	-.181	.057	-.009	-.471
240	1109	-.167	.055	.004	-.465
240	1110	-.182	.060	-.004	-.457
240	1111	-.168	.055	.016	-.487
240	1112	-.183	.060	-.009	-.483
240	1113	-.199	.078	-.026	-.687
240	1114	-.161	.050	-.004	-.370
240	1115	-.168	.053	-.009	-.386
240	1116	-.202	.075	-.011	-.659
240	1117	-.167	.051	-.018	-.396
240	1118	-.180	.050	-.028	-.416
240	1119	-.170	.047	-.016	-.378
240	1120	-.171	.047	-.019	-.364
240	1121	-.170	.050	-.041	-.376
240	1122	-.174	.050	-.042	-.385
240	1123	-.172	.052	-.021	-.418
240	1124	-.207	.070	-.026	-.548
240	1125	-.165	.049	-.023	-.344
240	1126	-.168	.048	-.016	-.342
240	1127	-.163	.047	-.006	-.332
240	1128	-.167	.047	-.009	-.345
240	1129	-.166	.046	-.033	-.364
240	1130	-.172	.047	-.037	-.370
240	1131	-.173	.048	-.029	-.356
240	1132	-.173	.047	-.033	-.359

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	1133	-.161	.045	-.031	-.317
240	1134	-.165	.045	-.030	-.320
240	1135	-.162	.046	-.016	-.319
240	1136	-.165	.047	-.016	-.330
240	1137	-.186	.055	-.001	-.436
240	1138	-.180	.052	-.023	-.385
240	1139	-.213	.079	-.015	-.642
240	1140	-.174	.047	-.023	-.367
240	1141	-.175	.050	-.004	-.355
240	1142	-.162	.050	.000	-.326
240	1143	-.171	.051	-.021	-.326
240	1144	-.175	.052	-.011	-.342
240	1145	-.174	.052	-.037	-.403
240	1146	-.202	.074	.029	-.626
240	1147	-.217	.078	.025	-.589
240	1148	-.184	.051	-.036	-.372
240	1149	-.195	.050	-.039	-.396
240	1150	-.170	.050	.027	-.372
240	1151	-.187	.053	-.000	-.509
240	1152	-.188	.052	.009	-.478
240	1153	-.187	.056	.039	-.490
240	1154	-.206	.070	-.029	-.530
240	1155	-.221	.075	-.031	-.549
240	1156	-.187	.052	-.033	-.401
240	1157	-.189	.047	.022	-.378
240	1158	-.163	.047	.005	-.426
240	1159	-.178	.051	-.000	-.642
240	1160	-.180	.049	-.006	-.488
240	1161	-.231	.074	.001	-.695
240	1162	-.224	.078	.005	-.653
240	1163	-.191	.051	.010	-.394
240	1164	-.189	.049	-.011	-.387
240	1165	-.184	.050	-.049	-.411
240	1166	-.167	.049	-.029	-.367
240	1167	-.176	.049	-.046	-.406
240	1168	-.176	.051	-.033	-.414
240	1169	-.179	.052	-.016	-.378
240	1170	-.164	.053	.020	-.406
240	1171	-.182	.057	.025	-.446
240	1172	-.183	.055	.016	-.406
240	1173	-.197	.052	-.026	-.401
240	1174	-.176	.060	-.012	-.793
240	1175	-.228	.077	-.031	-.644
240	1176	-.240	.081	-.041	-.646
240	1177	-.204	.054	-.011	-.429
240	1178	-.189	.054	-.002	-.409
240	1179	-.179	.058	.015	-.546
240	1180	-.194	.063	-.008	-.644
240	1181	-.192	.062	-.014	-.593
240	1182	-.233	.079	-.019	-.658
240	1183	-.249	.084	-.046	-.667
240	1184	-.208	.057	-.048	-.461
240	1185	-.220	.057	-.026	-.424
240	1186	-.180	.062	.000	-.667
240	1187	-.200	.072	.010	-.762
240	1188	-.201	.069	.038	-.742
240	1189	-.254	.080	-.011	-.826
240	1190	-.244	.083	-.002	-.834
240	1191	-.209	.054	-.068	-.514
240	1192	-.206	.052	-.068	-.488
240	1193	-.211	.054	-.062	-.409
240	1194	-.188	.053	-.046	-.428
240	1195	-.196	.055	-.026	-.414
240	1196	-.194	.060	.021	-.525
240	1197	-.197	.065	.017	-.505
240	1198	-.179	.068	.039	-.568
240	1199	-.197	.078	.057	-.754
240	1200	-.266	.087	-.048	-.710
240	1201	-.280	.084	-.024	-.715
240	1202	-.225	.063	-.017	-.501
240	1203	-.232	.063	-.033	-.501
240	1204	-.198	.078	.041	-.839
240	1205	-.212	.091	.050	-.927
240	1206	-.189	.084	.049	-.820
240	1207	-.261	.082	-.021	-.594
240	1208	-.268	.084	.029	-.604
240	1209	-.238	.065	-.059	-.535
240	1210	-.223	.064	-.051	-.537
240	1211	-.184	.078	.037	-.774
240	1212	-.209	.095	.073	-1.148
240	1213	-.202	.074	.033	-.745
240	1214	-.243	.077	-.056	-.659
240	1215	-.205	.082	.028	-1.151
240	1216	-.253	.081	.057	-.690
240	1217	-.274	.083	-.052	-.813
240	1218	-.258	.078	-.057	-.730
240	1219	-.246	.074	-.056	-.721
240	1220	-.254	.075	-.066	-.817
240	1221	-.235	.064	-.079	-.504
240	1222	-.213	.062	-.039	-.521
240	1223	-.212	.064	-.039	-.618
240	1224	-.214	.071	-.021	-.876
240	1225	-.228	.082	-.018	-.738
240	1226	-.210	.078	.001	-.721
240	1227	-.204	.078	.016	-.809
240	1228	-.205	.078	.026	-.718
240	1229	-.229	.085	-.016	-1.085
240	1230	-.260	.086	-.060	-.681
240	1231	-.251	.085	-.025	-.658
240	1232	-.256	.082	-.045	-.645
240	1233	-.267	.082	-.057	-.709
240	1234	-.245	.095	-.018	-.870
240	1235	-.253	.102	-.001	-.898
240	1236	-.253	.097	-.012	-.798
240	1237	-.278	.091	-.009	-.806
240	1238	-.260	.091	-.013	-.781
240	1239	-.252	.082	-.058	-.678
240	1240	-.257	.085	-.028	-.775
240	1241	-.347	.147	-.021	-1.263
240	1242	-.327	.133	-.048	-.993
240	1243	-.234	.087	-.001	-.704
240	1244	-.232	.087	.002	-.666
240	1245	-.236	.083	.018	-.660
240	1246	-.194	.070	.050	-.511
240	1247	-.161	.062	.094	-.490
240	1248	-.214	.081	.005	-.572
240	1249	-.238	.084	-.048	-.650
240	1250	-.265	.103	.003	-.923
240	1251	-.316	.127	-.011	-1.127
240	1252	-.369	.154	-.005	-1.342
240	1253	-.408	.151	-.060	-1.197
240	1254	-.159	.057	.010	-.483
240	1255	-.377	.145	-.079	-1.135
240	1256	-.283	.117	.007	-.888
240	1257	-.101	.056	.084	-.555
240	1258	-.051	.056	.138	-.246
240	1259	-.130	.080	.114	-.711
240	1260	-.047	.063	.210	-.335
240	1261	-.051	.062	.358	-.286
240	1262	-.082	.064	.199	-.327
240	1263	-.153	.105	.202	-.869
240	1264	-.061	.075	.276	-.470
240	1265	.069	.054	.326	-.076
240	1266	-.051	.048	.173	-.249
240	1267	-.059	.049	.118	-.254
240	1901	-.255	.107	.078	-.909
240	1902	-.293	.087	-.015	-.608
240	1903	-.334	.098	-.019	-.730
240	1904	-.420	.110	-.091	-.813
240	1905	-.405	.093	-.106	-.751
240	1906	-.376	.116	-.003	-.931
240	1907	-.264	.084	-.002	-.593
240	1908	.024	.182	.664	-.587
240	1909	-.406	.112	.061	-.902
240	1910	-.331	.102	.041	-.688
240	1911	-.283	.103	.096	-.741
240	1912	-.349	.059	-.169	-.541
240	2301	-.222	.068	-.033	-.675
240	2302	.333	.134	.852	-.156
240	2303	.163	.127	.724	-.236

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	2304	.109	.107	.585	-.252
240	2305	-.172	.100	.443	-.518
240	2306	.150	.126	.740	-.328
240	2307	.184	.177	.743	-.660
240	2308	-.086	.229	.731	-.818
240	2309	-.147	.161	.539	-.767
240	2310	-.219	.308	1.057	-1.359
240	2311	-.213	.060	-.036	-.648
240	2312	-.198	.057	-.021	-.564
240	2313	.231	.131	.778	-.247
240	2314	.286	.309	1.038	-.779
240	2315	-.209	.059	-.022	-.498
240	2316	-.176	.056	.015	-.446
240	2317	.220	.134	.720	-.164
240	2318	.203	.125	.731	-.265
240	2319	.154	.102	.565	-.275
240	2320	.150	.096	.516	-.252
240	2321	.264	.148	.879	-.384
240	2322	.181	.108	.589	-.139
240	2323	.158	.104	.565	-.166
240	2324	.235	.129	.864	-.153
240	2325	.181	.122	.686	-.219
240	2326	.107	.109	.708	-.221
240	2327	.006	.089	.369	-.275
240	2328	.049	.089	.368	-.275
240	2329	.293	.150	.917	-.185
240	2330	.180	.124	.638	-.456
240	2331	.157	.124	.608	-.371
240	2332	.266	.165	.952	-.502
240	2333	.190	.138	.650	-.588
240	2334	.175	.153	.661	-.691
240	2335	.210	.212	.941	-.662
240	2336	.186	.198	.897	-.596
240	2337	.104	.243	.858	-1.058
240	2338	.105	.206	.907	-.978
240	2339	.105	.195	.907	-.944
240	2340	.129	.181	.779	-.566
240	2341	.268	.302	1.042	-1.010
240	2342	.268	.304	1.062	-.989
240	2343	-.201	.056	-.002	-.494
240	2344	-.181	.053	-.015	-.462
240	2345	.219	.129	.686	-.196
240	2346	-.198	.057	-.018	-.477
240	2347	-.191	.057	-.022	-.555
240	2348	-.174	.119	.645	-.252
240	2349	-.210	.064	-.021	-.717
240	2350	.161	.119	.705	-.211
240	2351	.125	.100	.445	-.346
240	2352	.151	.105	.522	-.339
240	2353	.007	.082	.404	-.303
240	2354	.211	.135	.675	-.323
240	2355	.245	.197	.866	-.854
240	2356	.154	.219	.893	-.810
240	2357	.126	.199	.889	-.683
240	2358	.205	.314	.997	-1.080
240	2359	.177	.121	.766	-.197
240	2360	.220	.281	1.020	-1.001
240	2361	-.198	.067	-.004	-.684
240	2362	-.198	.062	-.028	-.543
240	2363	.183	.127	.778	-.232
240	2364	-.228	.077	.016	-.833
240	2365	-.199	.073	.001	-.802
240	2366	.163	.129	.686	-.189
240	2367	-.218	.078	-.000	-.644
240	2368	.104	.114	.602	-.259
240	2369	.091	.092	.514	-.213
240	2370	.090	.098	.473	-.235
240	2371	.040	.091	.426	-.335
240	2372	.150	.122	.624	-.371
240	2373	.181	.162	.768	-.495
240	2374	.137	.190	.754	-.588
240	2375	.112	.190	.748	-.809
240	2376	.130	.235	1.061	-1.145
240	2377	-.232	.081	-.011	-.769
240	2378	-.222	.084	-.015	-.776
240	2379	.060	.093	.472	-.266
240	2380	-.244	.090	.004	-.887
240	2381	-.212	.078	-.029	-.845
240	2382	.040	.091	.554	-.254
240	2383	-.240	.094	.061	-.797
240	2384	-.236	.089	.038	-.667
240	2385	.026	.091	.469	-.352
240	2386	.037	.093	.427	-.246
240	2387	-.002	.066	.297	-.373
240	2388	-.021	.064	.306	-.385
240	2389	-.007	.068	.342	-.408
240	2390	-.013	.065	.279	-.318
240	2391	.056	.092	.475	-.361
240	2392	.054	.117	.548	-.541
240	2393	.047	.133	.595	-.624
240	2394	.043	.130	.590	-.548
240	2395	.055	.124	.580	-.558
240	2396	.012	.128	.529	-.700
240	2397	.032	.175	.546	-.988
240	2398	.014	.175	.730	-1.090
240	2399	-.274	.109	-.017	-.826
240	2400	-.279	.108	-.031	-.781
240	2401	.003	.079	.406	-.294
240	2402	-.353	.141	-.092	-1.201
240	2403	-.365	.143	-.095	-1.011
240	2404	-.029	.072	.446	-.250
240	2405	-.379	.142	-.087	-1.141
240	2406	-.020	.065	.308	-.266
240	2407	-.024	.054	.263	-.178
240	2408	.002	.064	.365	-.176
240	2409	.027	.076	.403	-.221
240	2410	.062	.079	.454	-.242
240	2411	.049	.080	.387	-.224
240	2412	.024	.091	.439	-.466
240	2413	.045	.085	.509	-.356
240	2414	-.004	.109	.352	-.596
240	2415	-.145	.101	.214	-.890
240	2416	.014	.089	.410	-.511
240	2417	-.105	.077	.175	-.500
240	2418	.047	.054	.355	-.258
240	3101	.465	.193	1.208	-.293
240	3102	.356	.226	1.136	-.480
240	3103	.383	.190	1.054	-.384
240	3104	.318	.167	.951	-.121
240	3105	.281	.142	.823	-.120
240	3106	.094	.151	.709	-.511
240	3107	.205	.134	.850	-.160
240	3108	.234	.130	.860	-.213
240	3109	.315	.154	.926	-.251
240	3110	-.295	.112	.427	-.850
240	3111	.368	.188	.993	-.236
240	3112	-.274	.103	.062	-.798
240	3113	.447	.187	1.211	-.695
240	3114	.290	.145	.870	-.292
240	3115	-.286	.106	.075	-1.061
240	3116	.438	.190	1.103	-.662
240	3117	.255	.152	.891	-.273
240	3118	.373	.202	1.098	-.121
240	3119	.365	.176	1.037	-.056
240	3120	.333	.164	.927	-.049
240	3121	.237	.139	.714	-.229
240	3122	.331	.152	.913	-.159
240	3123	.230	.119	.612	-.187
240	3124	.424	.187	1.105	-.227
240	3125	.406	.183	1.150	-.115
240	3126	.424	.182	1.139	-.065
240	3127	.400	.165	1.059	-.007
240	3128	.374	.161	.994	-.023
240	3129	.390	.168	1.004	-.027
240	3130	.372	.163	.968	-.043
240	3131	.241	.152	.787	-.168
240	3132	.368	.164	.960	-.047
240	3133	.263	.126	.799	-.129
240	3134	.272	.132	.830	-.124
240	3135	.239	.122	.707	-.121

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	3136	.277	.142	.889	-.132
240	3137	-.285	.114	.026	-.991
240	3138	-.280	.111	.155	-1.202
240	3139	.404	.204	1.104	-.479
240	3140	.448	.180	1.164	-.030
240	3141	.420	.182	1.287	-.104
240	3142	.399	.174	1.233	-.128
240	3143	.308	.177	1.191	-.258
240	3144	.346	.169	1.122	-.160
240	3145	.269	.158	.935	-.268
240	3146	.404	.209	1.098	-.375
240	3147	.386	.214	1.099	-.385
240	3148	.393	.202	1.134	-.100
240	3149	.429	.200	1.135	-.133
240	3150	.276	.150	.938	-.199
240	3151	-.293	.116	-.039	-.989
240	3152	-.307	.121	.030	-1.119
240	3153	-.298	.125	.043	-1.001
240	3154	.302	.195	1.068	-.478
240	3155	.279	.206	1.137	-.599
240	3156	.322	.169	1.066	-.123
240	3157	.339	.187	1.032	-.183
240	3158	.220	.144	.829	-.167
240	3159	-.301	.129	.060	-1.058
240	3160	-.311	.135	.158	-1.036
240	3161	.304	.207	1.087	-.620
240	3162	.297	.215	1.087	-.617
240	3163	.323	.186	1.052	-.185
240	3164	.340	.184	1.027	-.137
240	3165	.321	.168	.947	-.092
240	3166	.298	.157	.915	-.101
240	3167	.192	.153	.838	-.176
240	3168	.217	.135	.726	-.148
240	3169	.174	.118	.638	-.147
240	3170	.207	.137	.829	-.195
240	3171	-.310	.124	-.027	-1.074
240	3172	-.321	.127	.155	-1.078
240	3173	.291	.170	.911	-.145
240	3174	-.320	.127	-.016	-1.117
240	3175	.246	.196	.961	-.505
240	3176	.219	.205	.981	-.507
240	3177	.266	.174	.866	-.271
240	3178	.272	.176	.904	-.220
240	3179	.171	.138	.756	-.253
240	3180	-.333	.131	-.051	-1.235
240	3181	-.338	.134	.160	-1.087
240	3182	.185	.186	.911	-.688
240	3183	.164	.195	.878	-.651
240	3184	.208	.138	.811	-.213
240	3185	.220	.153	.835	-.204
240	3186	.136	.134	.756	-.279
240	3187	-.360	.150	.031	-1.222
240	3188	-.371	.157	.190	-1.316
240	3189	.141	.159	.657	-.968
240	3190	.140	.172	.687	-.985
240	3191	.169	.122	.714	-.274
240	3192	.181	.124	.760	-.202
240	3193	.205	.120	.787	-.102
240	3194	.200	.120	.765	-.121
240	3195	.135	.135	.782	-.298
240	3196	.138	.113	.675	-.178
240	3197	.080	.100	.621	-.337
240	3198	.103	.113	.703	-.352
240	3199	-.353	.147	.156	-1.210
240	3200	.122	.146	.617	-.609
240	3201	.088	.162	.631	-.642
240	3202	.155	.105	.666	-.176
240	3203	.154	.104	.638	-.199
240	3204	.072	.109	.684	-.419
240	3205	-.391	.149	-.073	-1.258
240	3206	-.384	.152	.091	-1.124
240	3207	.100	.130	.667	-.808
240	3208	.083	.134	.607	-.848
240	3209	.119	.110	.764	-.242
240	3210	.128	.110	.776	-.259
240	3211	.045	.106	.563	-.422
240	3212	-.392	.159	-.037	-1.428
240	3213	-.376	.151	.119	-1.152
240	3214	-.108	.097	.635	-.262
240	3215	-.380	.154	-.034	-1.177
240	3216	.098	.118	.584	-.542
240	3217	.091	.119	.662	-.784
240	3218	.099	.094	.623	-.366
240	3219	.112	.096	.649	-.239
240	3220	.117	.089	.591	-.182
240	3221	.128	.094	.638	-.141
240	3222	.103	.087	.565	-.091
240	3223	.022	.097	.602	-.239
240	3224	.030	.079	.476	-.230
240	3225	-.022	.064	.364	-.240
240	3226	-.003	.070	.465	-.242
240	3227	.007	.083	.475	-.275
240	3228	.004	.090	.469	-.300
240	3229	-.376	.159	.116	-1.371
240	3230	.103	.094	.534	-.306
240	3231	.100	.096	.564	-.425
240	3232	.086	.087	.718	-.196
240	3233	.096	.096	.631	-.192
240	3234	-.039	.077	.374	-.447
240	3235	-.387	.174	-.063	-1.436
240	3236	-.398	.177	-.038	-1.390
240	3237	.099	.091	.587	-.388
240	3238	.093	.090	.548	-.330
240	3239	.096	.093	.607	-.317
240	3240	.097	.093	.622	-.316
240	3241	-.413	.162	-.061	-1.225
240	3242	-.428	.163	-.086	-1.350
240	3243	.085	.075	.444	-.185
240	3244	.081	.075	.471	-.247
240	3245	.093	.085	.560	-.160
240	3246	.098	.083	.529	-.153
240	3247	.105	.086	.600	-.137
240	3248	.085	.067	.437	-.124
240	3249	.083	.096	.507	-.228
240	3250	.064	.103	.675	-.199
240	3251	-.051	.063	.435	-.289
240	3252	-.057	.064	.272	-.316
240	3253	-.429	.156	-.044	-1.312
240	3254	.087	.069	.362	-.203
240	3255	-.345	.119	-.034	-.923
240	3256	-.163	.053	.010	-.381
240	3257	.050	.058	.342	-.308
240	3258	.016	.055	.287	-.136
240	3259	-.132	.062	.121	-.466
240	3260	.046	.062	.341	-.115
240	3261	-.036	.053	.216	-.201
240	3262	-.117	.048	.034	-.428
240	3263	-.037	.050	.225	-.242
240	3264	-.196	.067	-.038	-.763
240	3265	-.069	.060	.248	-.345
240	3266	.083	.067	.403	-.159
240	3267	.078	.071	.371	-.092
240	4301	-.219	.077	.024	-.623
240	4302	-.096	.059	.082	-.370
240	4303	-.195	.065	-.030	-.579
240	4304	-.197	.065	-.017	-.554
240	4305	-.204	.071	-.011	-.569
240	4306	-.207	.075	.038	-.671
240	4307	-.207	.083	.013	-.808
240	4308	-.189	.068	.002	-.650
240	4309	-.207	.076	-.009	-.693
240	4310	-.229	.084	-.021	-.614
240	4311	-.195	.073	.006	-.567
240	4312	-.213	.077	.050	-.685
240	4313	-.191	.063	.032	-.479
240	4314	-.219	.084	-.014	-.668
240	4315	-.203	.076	.066	-.753
240	4316	-.206	.081	.048	-.855
240	4317	-.185	.065	.044	-.511
240	4318	-.181	.066	.033	-.464

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	4319	-.183	.066	.027	-.499
240	4320	-.180	.068	.029	-.490
240	4321	-.182	.063	.012	-.458
240	4322	-.187	.066	.016	-.682
240	4323	-.190	.069	.018	-.799
240	4324	-.181	.066	.024	-.707
240	4325	-.192	.069	.026	-.748
240	4326	-.185	.060	.014	-.464
240	4327	-.189	.064	.013	-.570
240	4328	-.188	.067	.021	-.568
240	4329	-.181	.057	.005	-.410
240	4330	-.195	.063	.021	-.480
240	4331	-.199	.064	.006	-.487
240	4332	-.188	.063	-.012	-.480
240	4333	-.199	.065	-.002	-.458
240	4334	-.199	.063	0.000	-.473
240	4335	-.199	.064	-.003	-.505
240	4336	-.197	.066	-.005	-.499
240	4337	-.208	.071	-.020	-.578
240	4338	-.222	.068	-.039	-.513
240	4339	-.217	.071	-.031	-.518
240	4340	-.219	.075	-.055	-.535
240	4341	-.225	.085	-.018	-.598
240	4342	-.236	.091	-.009	-.640
240	4343	-.209	.078	.055	-.700
240	4344	-.212	.087	.076	-.764
240	4345	-.192	.070	.051	-.548
240	4346	-.219	.077	.061	-.698
240	4347	-.211	.078	.064	-.641
240	4348	-.179	.065	.088	-.537
240	4349	-.214	.080	.042	-.886
240	4350	-.206	.072	.010	-.607
240	4351	-.209	.076	.026	-.880
240	4352	-.211	.075	.018	-.779
240	4353	-.213	.076	.007	-.790
240	4354	-.214	.071	-.023	-.693
240	4355	-.216	.076	0.000	-.635
240	4356	-.225	.080	-.003	-.689
240	4357	-.227	.076	-.028	-.681
240	4358	-.235	.093	-.030	-.817
240	4359	-.212	.073	-.064	-.619
240	4360	-.231	.081	-.024	-.648
240	4361	-.233	.090	-.005	-.764
240	4362	-.242	.088	-.004	-.852
240	4363	-.212	.078	.028	-.725
240	4364	-.246	.094	.034	-.854
240	4365	-.249	.099	.019	-1.039
240	4366	-.226	.085	.042	-.753
240	4367	-.265	.097	.001	-1.107
240	4368	-.247	.086	.025	-.875
240	4369	-.240	.086	.038	-.743
240	4370	-.249	.086	.030	-.741
240	4371	-.255	.096	-.049	-.781
240	4372	-.245	.090	-.035	-.730
240	4373	-.235	.086	-.043	-.626
240	4374	-.244	.087	.010	-.638
240	4375	-.250	.078	.025	-.835
240	4376	-.241	.081	-.053	-.762
240	4377	-.282	.100	.051	-1.121
240	4378	-.278	.104	-.009	-.787
240	4379	-.257	.104	-.009	-1.461
240	4380	-.280	.102	.007	-.820
240	4381	-.301	.129	.001	-1.167
240	4382	-.270	.113	-.011	-1.111
240	4383	-.295	.142	.041	-1.163
240	4384	-.303	.142	.022	-1.156
240	4385	-.272	.122	.001	-1.255
240	4386	-.273	.097	.010	-.810
240	4387	-.271	.117	.006	-1.052
240	4388	-.279	.124	-.013	-1.058
240	4389	-.276	.113	-.041	-1.125
240	4390	-.285	.105	-.038	-.918
240	4391	-.281	.095	.001	-.867
240	4392	-.276	.091	.018	-.706
240	4393	-.261	.087	-.016	-.669
240	4394	-.264	.089	.020	-.686
240	4395	-.266	.080	-.069	-.659
240	4396	-.285	.093	.231	-.795
240	4397	-.267	.085	-.019	-.775
240	4398	-.262	.085	-.043	-.683
240	4399	-.301	.135	.048	-1.286
240	4400	-.316	.135	.080	-1.171
240	4401	-.285	.123	.065	-1.322
240	4402	-.308	.127	.071	-1.077
240	4403	-.316	.128	.058	-1.151
240	4404	-.294	.116	-.013	-1.216
240	4405	-.324	.123	-.002	-1.132
240	4406	-.306	.100	-.049	-.861
240	4407	-.313	.117	.014	-.889
240	4408	-.315	.113	-.006	-.826
240	4409	-.292	.112	.104	-.915
240	4410	-.241	.094	.209	-.768
240	4411	-.162	.088	.371	-.692
240	4412	-.146	.079	.437	-.483
240	4413	-.139	.065	.187	-.430
240	4414	-.179	.093	.105	-.959
240	4415	-.347	.139	-.053	-1.340
240	4416	-.143	.075	-.195	-.615
240	4417	-.354	.153	-.066	-1.201
240	4418	-.107	.067	.197	-.485
240	4419	-.182	.059	-.022	-.534
240	4420	-.154	.054	.003	-.443
240	4421	-.184	.092	.138	-.739
240	4422	-.111	.067	.152	-.420
240	4423	-.084	.071	.216	-.451
240	4424	-.038	.059	.278	-.261
240	9901	-.076	.052	.104	-.291
240	9902	-.111	.045	.015	-.294
240	9903	-.121	.045	.001	-.282
240	9904	-.077	.043	.070	-.252
240	9905	-.069	.046	.080	-.269
255	110	-.252	.103	.068	-.995
255	111	-.281	.107	.027	-.807
255	112	-.303	.134	.039	-.907
255	130	.226	.164	.855	-.169
255	140	-.259	.093	-.022	-.745
255	141	-.244	.086	.007	-.703
255	142	-.273	.130	.029	-1.067
255	143	-.245	.097	.025	-.726
255	144	-.212	.079	.044	-.712
255	145	-.199	.075	.015	-.623
255	220	-.260	.098	-.009	-.708
255	221	.388	.170	1.278	-.094
255	230	.359	.176	1.136	-.143
255	231	-.301	.110	.100	-1.028
255	310	-.295	.096	.029	-.647
255	320	-.176	.116	.325	-.586
255	321	.214	.142	.692	-.232
255	322	-.068	.205	.711	-.670
255	323	.514	.186	1.204	-.134
255	324	-.348	.319	.793	-1.394
255	325	.451	.186	1.119	-.145
255	330	-.028	.093	.396	-.349
255	331	.357	.194	.998	-.535
255	332	-.354	.140	.328	-.852
255	410	-.237	.073	-.022	-.576
255	411	-.274	.084	-.036	-.740
255	440	-.226	.077	.005	-.703
255	441	-.215	.068	.009	-.644
255	901	-.241	.107	.461	-.752
255	902	-.103	.091	.377	-.412
255	903	-.061	.071	.308	-.312
255	904	.079	.112	.601	-.216
255	905	.073	.079	.375	-.123
255	906	-.059	.073	.211	-.302
255	907	-.073	.097	.369	-.407
255	908	-.276	.121	.190	-.869
255	909	-.047	.070	.185	-.391
255	910	-.140	.095	.186	-.503
255	911	-.057	.080	.192	-.332

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
255	912	.003	.049	.189	-.148
255	1101	-.175	.061	.005	-.563
255	1102	-.173	.056	.016	-.558
255	1103	-.164	.053	.023	-.395
255	1104	-.171	.055	.023	-.463
255	1105	-.171	.056	.003	-.482
255	1106	-.182	.056	0.000	-.450
255	1107	-.179	.052	-.023	-.392
255	1108	-.183	.057	-.014	-.459
255	1109	-.171	.058	-.009	-.409
255	1110	-.185	.064	.007	-.506
255	1111	-.169	.055	-.020	-.437
255	1112	-.189	.066	-.012	-.554
255	1113	-.163	.053	.031	-.449
255	1114	-.169	.055	-.009	-.400
255	1115	-.179	.058	-.008	-.413
255	1116	-.168	.052	.018	-.412
255	1117	-.168	.055	.021	-.506
255	1118	-.177	.051	-.025	-.501
255	1119	-.173	.049	-.041	-.409
255	1120	-.176	.050	-.037	-.378
255	1121	-.171	.053	-.016	-.402
255	1122	-.169	.052	-.011	-.409
255	1123	-.166	.054	-.013	-.392
255	1124	-.171	.055	.011	-.445
255	1125	-.175	.049	-.042	-.447
255	1126	-.174	.048	-.041	-.434
255	1127	-.173	.046	-.043	-.416
255	1128	-.178	.047	-.046	-.412
255	1129	-.164	.050	-.024	-.383
255	1130	-.169	.050	-.018	-.404
255	1131	-.174	.053	-.006	-.425
255	1132	-.169	.052	-.009	-.422
255	1133	-.170	.056	-.021	-.485
255	1134	-.173	.055	-.030	-.450
255	1135	-.169	.056	-.022	-.451
255	1136	-.170	.057	-.021	-.431
255	1137	-.189	.060	.021	-.585
255	1138	-.180	.053	.013	-.480
255	1139	-.184	.057	-.034	-.447
255	1140	-.169	.050	-.036	-.369
255	1141	-.168	.051	.018	-.393
255	1142	-.164	.052	.005	-.433
255	1143	-.174	.055	-.015	-.440
255	1144	-.169	.055	.001	-.441
255	1145	-.175	.055	-.006	-.398
255	1146	-.186	.058	.003	-.812
255	1147	-.192	.058	-.015	-.805
255	1148	-.184	.052	-.048	-.491
255	1149	-.181	.050	-.052	-.393
255	1150	-.170	.053	-.011	-.428
255	1151	-.187	.057	-.027	-.459
255	1152	-.184	.055	-.022	-.423
255	1153	-.185	.056	.006	-.463
255	1154	-.186	.054	-.039	-.548
255	1155	-.194	.056	-.029	-.543
255	1156	-.183	.048	-.039	-.484
255	1157	-.188	.054	-.032	-.434
255	1158	-.173	.057	-.009	-.428
255	1159	-.189	.062	-.015	-.521
255	1160	-.186	.059	-.024	-.463
255	1161	-.191	.056	-.027	-.455
255	1162	-.187	.057	-.009	-.474
255	1163	-.180	.050	-.032	-.416
255	1164	-.176	.047	-.017	-.388
255	1165	-.180	.048	-.040	-.424
255	1166	-.172	.049	-.030	-.363
255	1167	-.178	.051	-.032	-.407
255	1168	-.176	.052	-.022	-.430
255	1169	-.173	.053	-.015	-.403
255	1170	-.164	.054	-.002	-.375
255	1171	-.179	.057	-.005	-.411
255	1172	-.178	.054	-.006	-.399
255	1173	-.188	.053	-.020	-.477
255	1174	-.179	.061	.088	-.680
255	1175	-.199	.060	.007	-.493
255	1176	-.204	.061	.011	-.488
255	1177	-.201	.050	-.049	-.412
255	1178	-.191	.050	-.032	-.402
255	1179	-.184	.056	.078	-.524
255	1180	-.198	.061	.062	-.612
255	1181	-.188	.058	.021	-.665
255	1182	-.201	.057	-.011	-.449
255	1183	-.210	.059	-.017	-.471
255	1184	-.197	.049	-.031	-.413
255	1185	-.196	.052	-.027	-.436
255	1186	-.174	.056	.007	-.453
255	1187	-.190	.061	.004	-.531
255	1188	-.189	.059	-.003	-.507
255	1189	-.204	.058	-.018	-.479
255	1190	-.199	.061	.003	-.544
255	1191	-.189	.052	-.024	-.442
255	1192	-.186	.049	-.010	-.397
255	1193	-.194	.053	-.032	-.552
255	1194	-.185	.056	-.014	-.553
255	1195	-.193	.062	-.022	-.576
255	1196	-.189	.062	-.013	-.584
255	1197	-.189	.057	-.023	-.446
255	1198	-.179	.058	-.004	-.486
255	1199	-.191	.063	-.000	-.521
255	1200	-.223	.060	-.048	-.451
255	1201	-.230	.066	.001	-.535
255	1202	-.206	.059	-.053	-.629
255	1203	-.209	.059	-.039	-.643
255	1204	-.190	.066	.041	-.545
255	1205	-.200	.065	.076	-.660
255	1206	-.188	.061	.067	-.608
255	1207	-.227	.054	-.010	-.536
255	1208	-.232	.055	-.020	-.538
255	1209	-.220	.057	-.030	-.624
255	1210	-.210	.057	-.011	-.622
255	1211	-.197	.064	-.005	-.755
255	1212	-.211	.071	.001	-.826
255	1213	-.220	.071	.065	-.625
255	1214	-.227	.064	-.074	-.600
255	1215	-.220	.077	.081	-.646
255	1216	-.238	.070	-.033	-.519
255	1217	-.244	.067	.043	-.605
255	1218	-.239	.065	-.009	-.528
255	1219	-.228	.064	.004	-.513
255	1220	-.233	.063	-.014	-.510
255	1221	-.238	.060	-.051	-.465
255	1222	-.228	.062	-.030	-.545
255	1223	-.224	.062	-.047	-.583
255	1224	-.225	.065	-.045	-.562
255	1225	-.237	.078	-.026	-1.157
255	1226	-.222	.074	-.044	-.996
255	1227	-.215	.073	-.023	-1.039
255	1228	-.217	.073	-.022	-.976
255	1229	-.234	.076	-.016	-.787
255	1230	-.249	.072	-.044	-.604
255	1231	-.241	.071	-.050	-.600
255	1232	-.251	.069	-.067	-.792
255	1233	-.258	.071	-.038	-.780
255	1234	-.244	.079	-.001	-.720
255	1235	-.250	.085	.018	-.702
255	1236	-.252	.081	.010	-.720
255	1237	-.261	.072	-.070	-.561
255	1238	-.249	.071	-.061	-.590
255	1239	-.252	.071	-.062	-.544
255	1240	-.255	.072	-.065	-.553
255	1241	-.359	.133	-.024	-1.120
255	1242	-.342	.120	-.061	-.925
255	1243	-.220	.076	-.001	-.699
255	1244	-.228	.074	.002	-.639
255	1245	-.232	.087	.082	-.632
255	1246	-.206	.073	.095	-.488
255	1247	-.179	.070	.131	-.611
255	1248	-.272	.081	-.050	-.660
255	1249	-.293	.081	-.073	-.723

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
255	1250	-.314	.094	-.070	-1.020
255	1251	-.359	.116	-.067	-1.148
255	1252	-.421	.146	-.036	-1.474
255	1253	-.437	.138	-.090	-1.219
255	1254	-.173	.059	.013	-.453
255	1255	-.414	.142	-.074	-1.077
255	1256	-.298	.125	-.043	-1.031
255	1257	-.131	.069	.055	-.625
255	1258	-.079	.052	.084	-.269
255	1259	-.151	.077	.096	-.500
255	1260	-.069	.063	.129	-.380
255	1261	-.064	.062	.186	-.307
255	1262	-.097	.066	.131	-.398
255	1263	-.174	.106	.113	-.869
255	1264	-.043	.073	.368	-.440
255	1265	.113	.079	.517	-.092
255	1266	-.057	.058	.129	-.296
255	1267	-.065	.065	.189	-.391
255	1901	-.245	.126	.143	-.904
255	1902	-.299	.084	-.020	-.653
255	1903	-.378	.113	-.010	-.928
255	1904	-.395	.103	-.061	-.856
255	1905	-.380	.087	-.117	-.663
255	1906	-.328	.097	-.037	-.663
255	1907	-.283	.083	-.024	-.653
255	1908	-.076	.157	.531	-.615
255	1909	-.373	.113	.048	-.734
255	1910	-.260	.108	.147	-.733
255	1911	-.225	.096	.122	-.746
255	1912	-.311	.052	-.160	-.526
255	2301	-.249	.090	-.037	-.696
255	2302	.388	.138	.917	.046
255	2303	.220	.138	.849	-.197
255	2304	.165	.124	.644	-.190
255	2305	-.018	.133	.463	-.563
255	2306	.221	.138	.826	-.149
255	2307	.265	.148	.877	-.093
255	2308	.320	.187	.907	-.469
255	2309	.273	.230	.958	-.419
255	2310	.494	.195	1.238	-.147
255	2311	-.233	.073	-.027	-.823
255	2312	-.218	.069	-.019	-.845
255	2313	.310	.141	.902	-.159
255	2314	.493	.190	1.162	-.309
255	2315	-.223	.066	-.046	-.795
255	2316	-.204	.063	-.039	-.796
255	2317	.288	.138	.858	-.127
255	2318	.268	.135	.802	-.072
255	2319	.238	.116	.680	-.039
255	2320	.227	.111	.687	-.037
255	2321	.347	.156	.977	-.048
255	2322	.253	.117	.744	-.156
255	2323	.239	.108	.675	-.146
255	2324	.344	.145	1.048	-.106
255	2325	.300	.136	.879	-.136
255	2326	.297	.156	.947	-.144
255	2327	.201	.128	.707	-.158
255	2328	.228	.127	.802	-.113
255	2329	.429	.162	1.023	-.003
255	2330	.371	.157	.956	-.041
255	2331	.368	.155	.968	-.048
255	2332	.450	.176	1.127	-.018
255	2333	.392	.162	1.005	-.066
255	2334	.379	.153	.935	-.016
255	2335	.429	.157	.970	-.041
255	2336	.412	.152	.945	-.053
255	2337	.458	.186	1.156	-.204
255	2338	.466	.202	1.069	-.226
255	2339	.445	.200	1.066	-.245
255	2340	.417	.181	.962	-.085
255	2341	.471	.182	1.056	-.181
255	2342	.517	.201	1.302	-.555
255	2343	-.229	.067	-.082	-.693
255	2344	-.214	.064	-.051	-.715
255	2345	-.292	.138	-.832	-.092
255	2346	-.220	.071	-.027	-1.010
255	2347	-.218	.063	-.014	-.562
255	2348	-.270	.122	.773	-.087
255	2349	-.239	.068	.004	-.605
255	2350	.251	.124	.770	-.108
255	2351	.218	.111	.592	-.099
255	2352	.250	.119	.647	-.058
255	2353	.137	.095	.584	-.149
255	2354	.354	.149	.958	.001
255	2355	.407	.159	1.101	-.135
255	2356	.420	.185	1.077	-.339
255	2357	.413	.184	.976	-.388
255	2358	.431	.189	1.084	-.409
255	2359	.264	.129	.800	-.072
255	2360	.439	.177	1.124	-.369
255	2361	-.225	.070	-.030	-.820
255	2362	-.222	.074	-.005	-.861
255	2363	-.237	.121	.775	-.108
255	2364	-.241	.074	-.007	-.804
255	2365	-.219	.071	-.001	-.758
255	2366	-.219	.116	.732	-.101
255	2367	-.239	.074	-.042	-.749
255	2368	.191	.109	.656	-.139
255	2369	.173	.091	.556	-.116
255	2370	.189	.099	.620	-.090
255	2371	.164	.109	.633	-.239
255	2372	.293	.126	.791	-.014
255	2373	.349	.141	.914	-.096
255	2374	.354	.162	1.019	-.162
255	2375	.361	.170	1.055	-.354
255	2376	.348	.152	1.000	-.197
255	2377	-.242	.080	-.049	-1.037
255	2378	-.246	.073	-.036	-.974
255	2379	.146	.091	.529	-.183
255	2380	-.258	.088	-.039	-1.184
255	2381	-.231	.070	-.019	-.731
255	2382	.125	.091	.560	-.156
255	2383	-.253	.079	-.069	-.771
255	2384	-.242	.073	-.076	-.782
255	2385	.105	.086	.522	-.163
255	2386	.135	.100	.579	-.184
255	2387	.073	.070	.334	-.110
255	2388	.060	.068	.364	-.119
255	2389	.096	.075	.425	-.090
255	2390	.077	.077	.388	-.156
255	2391	.158	.090	.563	-.059
255	2392	.183	.101	.587	-.112
255	2393	.197	.111	.646	-.182
255	2394	.196	.114	.648	-.187
255	2395	.266	.137	.809	-.066
255	2396	.187	.113	.637	-.117
255	2397	.219	.118	.724	-.078
255	2398	.207	.115	.795	-.133
255	2399	-.306	.102	-.025	-.962
255	2400	-.303	.100	-.060	-.910
255	2401	.092	.084	.428	-.160
255	2402	-.406	.132	-.080	-1.168
255	2403	-.395	.128	-.071	-1.523
255	2404	.061	.081	.457	-.188
255	2405	-.448	.139	-.063	-1.526
255	2406	.070	.081	.466	-.159
255	2407	.030	.054	.256	-.130
255	2408	.076	.064	.334	-.100
255	2409	.119	.075	.384	-.053
255	2410	.164	.086	.529	-.026
255	2411	.174	.085	.607	-.052
255	2412	.153	.081	.611	-.069
255	2413	.180	.101	.629	-.070
255	2414	.124	.075	.458	-.114
255	2415	-.076	.151	.327	-.833
255	2416	.099	.070	.490	-.140
255	2417	-.128	.065	.100	-.440
255	2418	.094	.059	.438	-.095
255	3101	.381	.200	1.120	-.418
255	3102	.027	.185	.767	-.507

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
255	3103	.152	.228	.940	-.576
255	3104	.274	.135	.976	-.140
255	3105	.177	.112	.734	-.152
255	3106	-.098	.103	.409	-.465
255	3107	.137	.114	.620	-.289
255	3108	.164	.106	.691	-.152
255	3109	-.265	.136	.829	-.208
255	3110	-.220	.068	-.010	-.571
255	3111	-.121	.162	.877	-.440
255	3112	-.201	.062	.005	-.509
255	3113	.369	.207	1.061	-.635
255	3114	-.233	.137	.924	-.188
255	3115	-.206	.062	-.002	-.573
255	3116	.368	.211	1.107	-.644
255	3117	.233	.129	.793	-.203
255	3118	.210	.174	.921	-.244
255	3119	.318	.147	.855	-.129
255	3120	.253	.123	.776	-.106
255	3121	.085	.098	.478	-.181
255	3122	.231	.121	.656	-.143
255	3123	.166	.093	.488	-.194
255	3124	.365	.212	.933	-.461
255	3125	.211	.163	.886	-.491
255	3126	.222	.181	.921	-.510
255	3127	.335	.144	.902	-.350
255	3128	.253	.116	.767	-.185
255	3129	.269	.126	.764	-.022
255	3130	.247	.121	.687	-.029
255	3131	.036	.099	.464	-.318
255	3132	.244	.128	.738	-.049
255	3133	.182	.102	.605	-.074
255	3134	.189	.106	.663	-.076
255	3135	.167	.098	.605	-.083
255	3136	-.214	.121	.729	-.109
255	3137	-.205	.056	-.052	-.514
255	3138	-.232	.063	-.061	-.590
255	3139	.378	.215	1.097	-.534
255	3140	.311	.183	1.043	-.391
255	3141	.339	.153	1.034	-.057
255	3142	.309	.143	.882	-.075
255	3143	.133	.121	.681	-.229
255	3144	.271	.136	.807	-.121
255	3145	.220	.123	.744	-.142
255	3146	.314	.230	.983	-1.036
255	3147	.334	.225	.926	-.944
255	3148	.216	.169	.900	-.442
255	3149	-.225	.168	.936	-.277
255	3150	-.204	.119	.932	-.137
255	3151	-.198	.057	.011	-.598
255	3152	-.203	.059	.012	-.581
255	3153	-.204	.060	-.035	-.519
255	3154	.310	.222	1.026	-.445
255	3155	.328	.215	1.018	-.519
255	3156	.213	.159	.844	-.294
255	3157	.203	.156	.774	-.372
255	3158	.188	.112	.771	-.205
255	3159	-.211	.058	-.036	-.551
255	3160	-.217	.059	-.041	-.574
255	3161	.269	.221	1.016	-.626
255	3162	.298	.216	1.021	-.645
255	3163	.189	.151	.934	-.271
255	3164	.200	.158	1.045	-.267
255	3165	.295	.139	.776	-.149
255	3166	.234	.108	.629	-.077
255	3167	.049	.087	.503	-.209
255	3168	.157	.090	.579	-.109
255	3169	.136	.091	.465	-.122
255	3170	.179	.115	.656	-.157
255	3171	-.221	.061	-.009	-.662
255	3172	-.227	.061	-.005	-.591
255	3173	.172	.140	.821	-.382
255	3174	-.207	.059	-.027	-.561
255	3175	.235	.198	.897	-.709
255	3176	.256	.194	.907	-.664
255	3177	.177	.143	.889	-.289
255	3178	.176	.146	.879	-.289
255	3179	.153	.108	.639	-.336
255	3180	-.224	.066	-.019	-.795
255	3181	-.225	.067	-.047	-.736
255	3182	.191	.187	.822	-.561
255	3183	.209	.184	.795	-.613
255	3184	.129	.120	.620	-.333
255	3185	.150	.147	.941	-.334
255	3186	.137	.106	.829	-.178
255	3187	-.242	.070	-.056	-.853
255	3188	-.249	.071	-.053	-.887
255	3189	.174	.197	.841	-.693
255	3190	.205	.200	.853	-.731
255	3191	.116	.124	.637	-.333
255	3192	.123	.129	.635	-.299
255	3193	.206	.122	.781	-.177
255	3194	.162	.092	.605	-.080
255	3195	-.003	.073	.367	-.251
255	3196	.093	.078	.481	-.109
255	3197	.074	.075	.412	-.177
255	3198	-.109	.094	.528	-.234
255	3199	-.256	.070	.147	-.771
255	3200	.181	.176	.856	-.471
255	3201	.197	.172	.804	-.509
255	3202	.110	.114	.673	-.330
255	3203	.105	.114	.667	-.306
255	3204	.082	.091	.503	-.199
255	3205	-.256	.074	-.080	-.883
255	3206	-.256	.074	-.049	-.897
255	3207	.143	.156	.770	-.442
255	3208	.168	.147	.732	-.433
255	3209	.078	.097	.524	-.224
255	3210	.080	.097	.519	-.231
255	3211	.064	.079	.451	-.192
255	3212	-.262	.073	-.075	-.941
255	3213	-.268	.084	-.061	-.702
255	3214	.087	.094	.520	-.267
255	3215	-.264	.085	-.061	-.759
255	3216	.140	.134	.891	-.384
255	3217	.155	.145	.761	-.582
255	3218	.084	.101	.551	-.393
255	3219	.094	.104	.565	-.337
255	3220	.118	.104	.592	-.307
255	3221	.149	.097	.597	-.101
255	3222	.114	.075	.542	-.074
255	3223	-.020	.058	.298	-.241
255	3224	.040	.060	.397	-.153
255	3225	.002	.056	.237	-.209
255	3226	.021	.059	.310	-.217
255	3227	.045	.078	.366	-.255
255	3228	.046	.085	.436	-.249
255	3229	-.287	.096	.139	-.902
255	3230	.134	.126	.750	-.518
255	3231	.152	.119	.843	-.435
255	3232	.084	.090	.522	-.342
255	3233	.079	.091	.716	-.181
255	3234	.019	.074	.408	-.298
255	3235	-.277	.088	-.081	-.930
255	3236	-.289	.090	-.093	-.918
255	3237	.118	.099	.615	-.289
255	3238	.131	.097	.625	-.153
255	3239	.085	.076	.489	-.218
255	3240	.083	.078	.499	-.242
255	3241	-.294	.101	-.080	-.860
255	3242	-.303	.106	-.086	-.947
255	3243	.109	.087	.503	-.291
255	3244	.116	.088	.548	-.291
255	3245	.090	.074	.498	-.117
255	3246	.106	.078	.535	-.129
255	3247	.133	.079	.566	-.078
255	3248	.116	.074	.487	-.088
255	3249	.095	.104	.622	-.204
255	3250	.068	.107	.581	-.164
255	3251	-.055	.063	.293	-.280
255	3252	-.029	.074	.362	-.254

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
255	3253	-.366	.118	-.136	-1.003
255	3254	.093	.068	.419	-.118
255	3255	-.305	.091	-.115	-.878
255	3256	-.202	.057	-.065	-.459
255	3257	.075	.063	.329	-.146
255	3258	.043	.058	.294	-.111
255	3259	-.181	.072	.031	-.551
255	3260	.063	.068	.334	-.093
255	3261	-.051	.046	.193	-.211
255	3262	-.151	.050	.000	-.386
255	3263	-.034	.050	.184	-.229
255	3264	-.271	.079	-.072	-.608
255	3265	-.094	.080	.168	-.634
255	3266	.118	.072	.445	-.064
255	3267	.094	.074	.440	-.112
255	4301	-.199	.062	-.000	-.531
255	4302	-.092	.051	.080	-.310
255	4303	-.188	.056	-.027	-.422
255	4304	-.183	.054	-.022	-.423
255	4305	-.185	.057	-.021	-.438
255	4306	-.201	.064	-.010	-.428
255	4307	-.184	.067	-.001	-.694
255	4308	-.168	.060	.025	-.472
255	4309	-.185	.064	.012	-.455
255	4310	-.185	.064	.001	-.477
255	4311	-.175	.058	.002	-.494
255	4312	-.193	.059	.005	-.576
255	4313	-.183	.052	.003	-.411
255	4314	-.192	.065	.010	-.539
255	4315	-.183	.058	-.003	-.482
255	4316	-.183	.059	-.005	-.492
255	4317	-.175	.055	-.014	-.460
255	4318	-.171	.055	.027	-.424
255	4319	-.167	.054	.021	-.389
255	4320	-.164	.054	.030	-.388
255	4321	-.167	.054	.022	-.376
255	4322	-.172	.052	-.005	-.414
255	4323	-.172	.053	.007	-.413
255	4324	-.170	.052	-.015	-.400
255	4325	-.174	.052	-.023	-.405
255	4326	-.176	.051	-.034	-.362
255	4327	-.179	.052	-.034	-.358
255	4328	-.180	.052	-.032	-.371
255	4329	-.170	.049	-.033	-.357
255	4330	-.177	.051	-.032	-.414
255	4331	-.178	.052	-.032	-.413
255	4332	-.172	.051	-.032	-.423
255	4333	-.178	.052	-.035	-.426
255	4334	-.186	.053	-.022	-.490
255	4335	-.179	.053	-.022	-.479
255	4336	-.179	.053	-.012	-.484
255	4337	-.181	.057	-.019	-.531
255	4338	-.202	.059	-.007	-.529
255	4339	-.201	.061	-.007	-.633
255	4340	-.194	.062	-.027	-.462
255	4341	-.189	.066	-.023	-.505
255	4342	-.201	.065	.002	-.495
255	4343	-.181	.056	.016	-.451
255	4344	-.182	.059	.005	-.568
255	4345	-.173	.053	.020	-.355
255	4346	-.191	.056	-.010	-.448
255	4347	-.189	.063	.002	-.653
255	4348	-.170	.058	.002	-.462
255	4349	-.190	.066	-.007	-.588
255	4350	-.187	.056	-.016	-.476
255	4351	-.176	.057	.012	-.490
255	4352	-.175	.056	.011	-.536
255	4353	-.175	.055	-.010	-.388
255	4354	-.177	.053	-.028	-.390
255	4355	-.199	.053	-.054	-.387
255	4356	-.204	.056	-.053	-.432
255	4357	-.207	.056	-.026	-.477
255	4358	-.208	.062	-.011	-.495
255	4359	-.186	.058	.044	-.509
255	4360	-.204	.060	-.008	-.489
255	4361	-.191	.067	.069	-.749
255	4362	-.203	.061	-.009	-.909
255	4363	-.193	.058	-.027	-.536
255	4364	-.205	.066	-.008	-.722
255	4365	-.208	.068	.010	-.734
255	4366	-.198	.061	.012	-.758
255	4367	-.219	.064	-.034	-.597
255	4368	-.224	.069	.033	-.603
255	4369	-.221	.069	-.002	-.566
255	4370	-.229	.068	.024	-.526
255	4371	-.228	.065	-.022	-.504
255	4372	-.217	.059	-.034	-.465
255	4373	-.211	.057	.002	-.430
255	4374	-.219	.060	.017	-.457
255	4375	-.237	.063	-.046	-.536
255	4376	-.217	.068	-.001	-.620
255	4377	-.231	.067	-.027	-.556
255	4378	-.233	.076	-.002	-.643
255	4379	-.210	.057	-.012	-.487
255	4380	-.237	.069	-.034	-.688
255	4381	-.233	.063	-.053	-.562
255	4382	-.224	.060	-.042	-.505
255	4383	-.240	.071	-.028	-.532
255	4384	-.244	.070	-.018	-.618
255	4385	-.233	.066	-.041	-.548
255	4386	-.240	.070	-.062	-.533
255	4387	-.247	.065	-.050	-.579
255	4388	-.255	.067	-.062	-.597
255	4389	-.253	.065	-.062	-.623
255	4390	-.268	.065	-.065	-.757
255	4391	-.243	.067	-.035	-.506
255	4392	-.241	.068	-.030	-.540
255	4393	-.230	.067	-.062	-.538
255	4394	-.236	.069	-.051	-.563
255	4395	-.252	.072	-.082	-.531
255	4396	-.257	.066	-.053	-.545
255	4397	-.237	.062	-.027	-.524
255	4398	-.242	.065	.032	-.533
255	4399	-.259	.074	-.038	-.589
255	4400	-.270	.075	-.060	-.655
255	4401	-.254	.071	-.039	-.569
255	4402	-.289	.083	-.077	-1.061
255	4403	-.299	.079	-.090	-.747
255	4404	-.285	.073	-.113	-.671
255	4405	-.321	.092	-.027	-.861
255	4406	-.277	.076	-.059	-.782
255	4407	-.303	.099	-.076	-.733
255	4408	-.309	.099	-.103	-.770
255	4409	-.291	.095	-.036	-.691
255	4410	-.260	.088	.030	-.584
255	4411	-.223	.071	.047	-.497
255	4412	-.211	.069	.005	-.554
255	4413	-.216	.080	-.012	-.637
255	4414	-.209	.073	.053	-.591
255	4415	-.323	.108	-.068	-1.131
255	4416	-.189	.079	.051	-.565
255	4417	-.340	.124	-.062	-1.283
255	4418	-.158	.080	.081	-.567
255	4419	-.239	.074	-.075	-.604
255	4420	-.219	.076	-.051	-.569
255	4421	-.272	.106	.024	-.855
255	4422	-.204	.105	.133	-.654
255	4423	-.182	.120	.164	-.747
255	4424	-.086	.082	.185	-.511
255	9901	-.100	.057	.085	-.366
255	9902	-.144	.048	-.011	-.363
255	9903	-.161	.049	-.033	-.355
255	9904	-.082	.051	.084	-.288
255	9905	-.085	.051	.066	-.294
270	110	-.314	.144	.029	-1.088
270	111	-.270	.117	.018	-.896
270	112	-.265	.132	.117	-.970
270	130	.058	.111	.663	-.294
270	140	-.284	.111	.020	-.842
270	141	-.277	.106	.017	-.790

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	142	-.335	.144	-.014	-1.069
270	143	-.277	.113	.014	-.790
270	144	-.249	.112	.020	-.910
270	145	-.243	.110	.005	-.878
270	220	-.288	.133	.242	-.717
270	221	.400	.160	1.010	-.117
270	230	.284	.164	.878	-.220
270	231	-.362	.107	-.012	-.920
270	310	-.333	.096	-.012	-.690
270	320	.027	.124	.523	-.441
270	321	.289	.136	.760	-.119
270	322	.241	.183	.791	-.405
270	323	.420	.166	1.075	-.155
270	324	.203	.229	.856	-.926
270	325	.471	.166	1.015	-.044
270	330	-.150	.061	.074	-.448
270	331	-.047	.214	.591	-.838
270	332	-.330	.084	-.053	-.897
270	410	-.201	.057	-.023	-.435
270	411	-.226	.064	.042	-.482
270	440	-.206	.058	.008	-.454
270	441	-.197	.054	-.042	-.403
270	901	-.290	.085	-.044	-.880
270	902	-.213	.078	.106	-.528
270	903	-.166	.061	.033	-.448
270	904	-.075	.078	.305	-.340
270	905	-.048	.049	.177	-.192
270	906	-.092	.063	.153	-.472
270	907	-.019	.092	.351	-.333
270	908	-.241	.128	.175	-.664
270	909	-.182	.062	.030	-.395
270	910	-.218	.077	.063	-.544
270	911	-.164	.069	.086	-.441
270	912	-.099	.036	.024	-.224
270	1101	-.194	.069	-.009	-.613
270	1102	-.205	.065	-.011	-.529
270	1103	-.191	.056	-.017	-.489
270	1104	-.197	.060	.000	-.557
270	1105	-.197	.066	.017	-.618
270	1106	-.218	.064	-.027	-.591
270	1107	-.210	.062	-.012	-.548
270	1108	-.212	.064	-.032	-.560
270	1109	-.191	.062	.026	-.507
270	1110	-.222	.073	-.013	-.594
270	1111	-.208	.070	-.005	-.477
270	1112	-.224	.079	.035	-.659
270	1113	-.194	.067	-.011	-.597
270	1114	-.195	.062	.056	-.543
270	1115	-.211	.071	.052	-.563
270	1116	-.206	.068	-.002	-.590
270	1117	-.185	.064	.031	-.538
270	1118	-.214	.067	-.013	-.543
270	1119	-.203	.061	.005	-.518
270	1120	-.202	.061	.035	-.520
270	1121	-.203	.063	-.023	-.446
270	1122	-.205	.060	-.017	-.531
270	1123	-.199	.064	.042	-.591
270	1124	-.217	.071	-.049	-.632
270	1125	-.210	.060	-.007	-.455
270	1126	-.214	.057	-.015	-.458
270	1127	-.204	.051	-.007	-.376
270	1128	-.211	.054	-.007	-.385
270	1129	-.193	.057	.045	-.524
270	1130	-.201	.058	.008	-.534
270	1131	-.206	.065	-.000	-.584
270	1132	-.201	.059	-.002	-.469
270	1133	-.191	.065	.041	-.512
270	1134	-.199	.063	.038	-.483
270	1135	-.191	.064	.045	-.461
270	1136	-.195	.066	.044	-.499
270	1137	-.229	.085	.097	-.721
270	1138	-.213	.073	-.002	-.588
270	1139	-.217	.070	.015	-.535
270	1140	-.208	.063	.029	-.478
270	1141	-.198	.053	-.028	-.443
270	1142	-.194	.055	-.033	-.452
270	1143	-.204	.059	-.017	-.445
270	1144	-.191	.059	-.010	-.435
270	1145	-.192	.065	.011	-.527
270	1146	-.208	.071	-.050	-.620
270	1147	-.206	.068	-.029	-.630
270	1148	-.207	.066	-.043	-.581
270	1149	-.221	.070	-.026	-.728
270	1150	-.197	.068	.007	-.665
270	1151	-.223	.078	.010	-.755
270	1152	-.211	.072	-.014	-.768
270	1153	-.229	.084	.004	-.682
270	1154	-.223	.074	-.047	-.573
270	1155	-.221	.071	-.051	-.557
270	1156	-.223	.071	-.065	-.624
270	1157	-.224	.072	-.040	-.684
270	1158	-.200	.073	.003	-.738
270	1159	-.224	.087	.015	-.836
270	1160	-.213	.081	-.010	-.775
270	1161	-.223	.074	-.035	-.753
270	1162	-.214	.070	-.026	-.670
270	1163	-.223	.072	-.015	-.775
270	1164	-.212	.066	-.036	-.643
270	1165	-.209	.064	-.021	-.549
270	1166	-.201	.064	.033	-.561
270	1167	-.209	.069	.051	-.684
270	1168	-.198	.068	-.084	-.555
270	1169	-.201	.069	-.016	-.559
270	1170	-.195	.071	.007	-.587
270	1171	-.220	.082	.024	-.838
270	1172	-.209	.074	-.007	-.550
270	1173	-.227	.075	-.038	-.854
270	1174	-.225	.087	.029	-.790
270	1175	-.226	.078	-.054	-.762
270	1176	-.217	.075	-.024	-.789
270	1177	-.230	.075	-.028	-.642
270	1178	-.225	.076	-.019	-.653
270	1179	-.211	.079	.039	-.806
270	1180	-.228	.092	.060	-.808
270	1181	-.220	.084	.058	-.758
270	1182	-.223	.078	.064	-.615
270	1183	-.222	.074	.041	-.621
270	1184	-.224	.075	.024	-.569
270	1185	-.232	.074	-.038	-.753
270	1186	-.207	.081	.012	-.712
270	1187	-.232	.095	.005	-.762
270	1188	-.220	.088	.009	-.727
270	1189	-.233	.077	-.048	-.888
270	1190	-.222	.075	-.040	-.880
270	1191	-.235	.075	-.037	-.682
270	1192	-.222	.071	-.026	-.703
270	1193	-.231	.070	-.031	-.625
270	1194	-.228	.076	-.019	-.677
270	1195	-.242	.089	.054	-1.009
270	1196	-.226	.086	.045	-.863
270	1197	-.229	.089	.014	-.824
270	1198	-.221	.091	.026	-1.065
270	1199	-.240	.098	.054	-.921
270	1200	-.244	.095	-.026	-.689
270	1201	-.239	.079	-.013	-.628
270	1202	-.241	.080	.003	-.774
270	1203	-.244	.079	-.017	-.716
270	1204	-.225	.085	.038	-.761
270	1205	-.257	.103	.021	-.765
270	1206	-.245	.096	-.002	-.710
270	1207	-.263	.096	-.017	-.863
270	1208	-.251	.092	-.014	-.856
270	1209	-.266	.087	-.048	-.822
270	1210	-.259	.087	-.047	-.790
270	1211	-.257	.094	-.015	-.775
270	1212	-.270	.105	.009	-.909
270	1213	-.263	.090	.040	-.792
270	1214	-.285	.082	-.051	-.752
270	1215	-.275	.098	-.029	-.939
270	1216	-.273	.085	-.068	-.671

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	1217	-.260	.089	-.023	-.753
270	1218	-.275	.088	.095	-.817
270	1219	-.263	.085	.180	-.631
270	1220	-.260	.082	.088	-.655
270	1221	-.281	.085	-.055	-.722
270	1222	-.287	.093	-.076	-.907
270	1223	-.279	.091	-.051	-.739
270	1224	-.272	.088	-.054	-.841
270	1225	-.270	.093	-.026	-.971
270	1226	-.269	.089	-.022	-.864
270	1227	-.263	.090	-.007	-1.088
270	1228	-.260	.089	-.004	-.960
270	1229	-.285	.093	-.011	-.894
270	1230	-.285	.088	-.060	-.869
270	1231	-.271	.084	-.039	-.833
270	1232	-.286	.087	-.078	-.655
270	1233	-.280	.088	-.057	-1.025
270	1234	-.281	.108	-.003	-1.554
270	1235	-.291	.112	.002	-1.071
270	1236	-.286	.107	-.002	-1.045
270	1237	-.263	.084	-.011	-.654
270	1238	-.260	.082	-.020	-.693
270	1239	-.273	.086	.038	-.751
270	1240	-.270	.083	.017	-.636
270	1241	-.346	.147	-.023	-1.408
270	1242	-.343	.140	-.008	-1.366
270	1243	-.210	.087	.017	-.722
270	1244	-.217	.085	.024	-.692
270	1245	-.203	.097	.100	-.649
270	1246	-.201	.082	.138	-.508
270	1247	-.227	.080	.058	-.574
270	1248	-.274	.087	.017	-.721
270	1249	-.300	.100	-.050	-.870
270	1250	-.347	.124	-.024	-1.127
270	1251	-.385	.145	-.070	-1.523
270	1252	-.426	.166	-.082	-1.899
270	1253	-.420	.144	-.033	-1.190
270	1254	-.187	.063	.032	-.522
270	1255	-.423	.150	-.041	-1.180
270	1256	-.334	.126	-.028	-1.040
270	1257	-.160	.073	.010	-.537
270	1258	-.119	.048	.023	-.374
270	1259	-.189	.078	.034	-.575
270	1260	-.092	.067	.244	-.366
270	1261	-.053	.070	.330	-.259
270	1262	-.122	.079	.262	-.433
270	1263	-.221	.117	.192	-.765
270	1264	-.037	.073	.268	-.461
270	1265	.117	.073	.435	-.092
270	1266	-.076	.052	.128	-.362
270	1267	-.140	.065	.026	-.446
270	1901	-.297	.144	.215	-.991
270	1902	-.292	.079	-.048	-.650
270	1903	-.409	.116	-.026	-.957
270	1904	-.382	.086	-.103	-.678
270	1905	-.387	.075	-.125	-.651
270	1906	-.347	.083	-.082	-.722
270	1907	-.312	.074	-.054	-.622
270	1908	-.152	.129	.464	-.639
270	1909	-.359	.100	.016	-.763
270	1910	-.255	.100	.110	-.610
270	1911	-.286	.085	-.008	-.644
270	1912	-.368	.065	-.197	-.568
270	2301	-.303	.131	.607	-.801
270	2302	.353	.130	.788	-.008
270	2303	.203	.122	.793	-.195
270	2304	.165	.117	.756	-.221
270	2305	.102	.142	.645	-.404
270	2306	.229	.142	.813	-.147
270	2307	.264	.145	.844	-.133
270	2308	.329	.148	.880	-.079
270	2309	.388	.163	.894	-.271
270	2310	.415	.170	1.030	-.100
270	2311	-.289	.109	-.035	-.915
270	2312	-.298	.110	-.039	-.813
270	2313	.296	.141	.917	-.141
270	2314	.356	.203	1.002	-.413
270	2315	-.292	.110	-.054	-1.189
270	2316	-.271	.105	-.022	-1.130
270	2317	.294	.140	.745	-.090
270	2318	.264	.130	.755	-.131
270	2319	.257	.114	.688	-.072
270	2320	.249	.111	.639	-.071
270	2321	.350	.146	.905	-.047
270	2322	.271	.133	.848	-.095
270	2323	.269	.126	.799	-.065
270	2324	.360	.151	1.065	-.060
270	2325	.321	.144	.971	-.074
270	2326	.333	.156	.891	-.207
270	2327	.276	.139	.877	-.251
270	2328	.286	.133	.772	-.177
270	2329	.392	.150	.917	-.020
270	2330	.378	.153	.967	-.047
270	2331	.383	.148	.939	-.014
270	2332	.433	.158	1.031	-.007
270	2333	.401	.156	.994	-.018
270	2334	.366	.151	.950	-.043
270	2335	.399	.153	.953	-.007
270	2336	.393	.150	.946	-.007
270	2337	.410	.160	.940	.009
270	2338	.454	.171	1.087	.058
270	2339	.450	.172	1.084	.061
270	2340	.438	.162	.936	.037
270	2341	.293	.217	.948	-.622
270	2342	.338	.213	.967	-.423
270	2343	-.279	.105	.064	-.950
270	2344	-.262	.099	-.028	-.986
270	2345	.279	.130	.774	-.134
270	2346	-.285	.112	.149	-.982
270	2347	-.268	.101	-.053	-.847
270	2348	.259	.119	.705	-.115
270	2349	-.297	.109	-.005	-.967
270	2350	.254	.126	.698	-.138
270	2351	.211	.114	.703	-.155
270	2352	.266	.120	.826	-.102
270	2353	.279	.135	.950	-.076
270	2354	.356	.145	.959	.032
270	2355	.371	.146	.930	.000
270	2356	.386	.143	.937	.011
270	2357	.407	.146	.961	-.008
270	2358	.252	.194	.830	-.535
270	2359	.217	.114	.614	-.106
270	2360	.235	.200	.840	-.559
270	2361	-.262	.100	.065	-.850
270	2362	-.290	.119	-.019	-.989
270	2363	.201	.117	.627	-.136
270	2364	-.291	.114	.111	-.948
270	2365	-.269	.110	.103	-.901
270	2366	.184	.115	.630	-.128
270	2367	-.303	.126	.212	-1.238
270	2368	.166	.106	.632	-.187
270	2369	.160	.093	.584	-.132
270	2370	.178	.102	.630	-.115
270	2371	.175	.108	.552	-.108
270	2372	.271	.114	.700	-.010
270	2373	.319	.124	.842	.031
270	2374	.319	.129	.865	-.009
270	2375	.332	.135	.864	-.047
270	2376	.246	.167	.852	-.707
270	2377	-.306	.127	.193	-1.429
270	2378	-.307	.112	-.061	-1.239
270	2379	.148	.110	.629	-.240
270	2380	-.317	.125	.054	-1.132
270	2381	-.317	.118	.083	-.984
270	2382	.122	.105	.597	-.237
270	2383	-.338	.117	.055	-1.114
270	2384	-.318	.111	-.063	-1.022
270	2385	.112	.103	.585	-.161
270	2386	.090	.098	.480	-.262
270	2387	.064	.078	.446	-.232

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	2388	.058	.074	.449	-.229
270	2389	.100	.080	.489	-.181
270	2390	.094	.089	.570	-.237
270	2391	.192	.096	.707	-.032
270	2392	.233	.104	.664	-.026
270	2393	.249	.108	.677	-.018
270	2394	.252	.111	.679	-.047
270	2395	.246	.115	.669	-.033
270	2396	.245	.115	.903	-.078
270	2397	.213	.143	.826	-.567
270	2398	.224	.127	.802	-.515
270	2399	-.354	.133	-.034	-1.050
270	2400	-.341	.130	-.061	-1.095
270	2401	.068	.089	.499	-.281
270	2402	-.421	.161	-.024	-1.334
270	2403	-.437	.166	-.103	-1.350
270	2404	.062	.086	.430	-.183
270	2405	-.489	.171	-.111	-1.358
270	2406	.024	.066	.357	-.227
270	2407	.020	.058	.304	-.146
270	2408	.081	.068	.430	-.095
270	2409	.130	.083	.592	-.070
270	2410	.177	.087	.587	-.007
270	2411	.197	.090	.545	-.027
270	2412	.181	.084	.523	-.107
270	2413	.140	.077	.453	-.126
270	2414	.141	.081	.496	-.155
270	2415	-.186	.217	.431	-1.134
270	2416	.112	.079	.437	-.236
270	2417	-.194	.083	.068	-.565
270	2418	.096	.064	.343	-.113
270	3101	-.150	.278	.784	-1.020
270	3102	-.279	.099	.061	-.656
270	3103	-.281	.124	.321	-.693
270	3104	.105	.193	.822	-.661
270	3105	.083	.095	.469	-.319
270	3106	-.205	.080	.113	-.580
270	3107	.051	.083	.473	-.414
270	3108	.114	.095	.491	-.224
270	3109	.200	.126	.771	-.164
270	3110	-.216	.061	.027	-.456
270	3111	-.185	.118	.238	-.715
270	3112	-.206	.058	-.047	-.466
270	3113	-.102	.314	.837	-.977
270	3114	.154	.116	.652	-.209
270	3115	-.209	.058	-.038	-.409
270	3116	-.117	.311	.844	-1.031
270	3117	-.144	.113	.611	-.182
270	3118	-.108	.135	.367	-.773
270	3119	.077	.168	.605	-.660
270	3120	.096	.091	.407	-.392
270	3121	-.091	.058	.131	-.413
270	3122	.055	.079	.381	-.341
270	3123	.054	.067	.319	-.286
270	3124	-.197	.274	.615	-1.144
270	3125	-.125	.137	.347	-.608
270	3126	-.115	.131	.508	-.649
270	3127	.100	.167	.700	-.532
270	3128	.088	.119	.449	-.629
270	3129	.111	.114	.453	-.547
270	3130	.111	.092	.420	-.285
270	3131	-.093	.060	.233	-.296
270	3132	.100	.084	.434	-.197
270	3133	.080	.075	.400	-.156
270	3134	.096	.073	.464	-.139
270	3135	.086	.069	.389	-.146
270	3136	.126	.091	.481	-.145
270	3137	-.192	.054	-.064	-.403
270	3138	-.204	.052	-.040	-.495
270	3139	-.135	.289	.820	-1.026
270	3140	-.031	.168	.626	-.900
270	3141	.184	.146	.814	-.610
270	3142	.169	.122	.672	-.353
270	3143	-.022	.075	.360	-.270
270	3144	.161	.105	.628	-.235
270	3145	.127	.100	.541	-.163
270	3146	-.199	.254	.721	-.947
270	3147	-.171	.277	.822	-.974
270	3148	-.092	.136	.299	-.710
270	3149	-.079	.136	.438	-.727
270	3150	-.117	.104	.543	-.224
270	3151	-.197	.050	-.027	-.417
270	3152	-.195	.050	-.011	-.405
270	3153	-.196	.049	-.039	-.429
270	3154	-.181	.242	.741	-.978
270	3155	-.143	.267	.880	-1.031
270	3156	-.079	.130	.325	-.559
270	3157	-.101	.141	.379	-.756
270	3158	-.085	.094	.463	-.380
270	3159	-.203	.052	-.039	-.389
270	3160	-.200	.053	-.042	-.416
270	3161	-.189	.250	.709	-.979
270	3162	-.157	.280	.739	-.952
270	3163	-.099	.146	.364	-.802
270	3164	-.080	.141	.368	-.864
270	3165	.060	.167	.613	-.736
270	3166	.084	.101	.445	-.384
270	3167	-.070	.055	.144	-.307
270	3168	.059	.069	.319	-.206
270	3169	.047	.064	.358	-.199
270	3170	.076	.086	.461	-.200
270	3171	-.205	.052	-.011	-.431
270	3172	-.203	.053	.083	-.385
270	3173	-.080	.137	.392	-.706
270	3174	-.209	.052	-.053	-.436
270	3175	-.174	.240	.621	-1.191
270	3176	-.131	.258	.632	-1.205
270	3177	-.060	.141	.330	-.649
270	3178	-.072	.143	.334	-.765
270	3179	.079	.094	.481	-.252
270	3180	-.204	.054	-.031	-.416
270	3181	-.212	.055	-.055	-.513
270	3182	-.147	.232	.543	-.909
270	3183	-.109	.252	.673	-.985
270	3184	-.068	.132	.274	-.714
270	3185	-.064	.127	.308	-.578
270	3186	.063	.088	.476	-.204
270	3187	-.219	.053	-.076	-.456
270	3188	-.216	.053	-.071	-.465
270	3189	-.140	.207	.463	-.800
270	3190	-.111	.231	.599	-.805
270	3191	-.073	.116	.284	-.669
270	3192	-.054	.112	.314	-.598
270	3193	.051	.129	.537	-.509
270	3194	.060	.082	.441	-.280
270	3195	-.082	.050	.112	-.275
270	3196	.027	.059	.328	-.219
270	3197	.014	.056	.266	-.218
270	3198	.038	.073	.394	-.246
270	3199	-.227	.055	-.057	-.481
270	3200	-.093	.212	.493	-.887
270	3201	-.034	.206	.546	-.848
270	3202	-.050	.106	.285	-.542
270	3203	-.052	.104	.289	-.541
270	3204	.046	.076	.426	-.165
270	3205	-.229	.054	-.052	-.543
270	3206	-.239	.055	-.064	-.453
270	3207	-.059	.204	.515	-1.035
270	3208	-.015	.203	.661	-1.037
270	3209	-.032	.106	.317	-.834
270	3210	-.039	.106	.312	-.798
270	3211	.042	.076	.394	-.259
270	3212	-.227	.058	-.053	-.454
270	3213	-.237	.061	-.053	-.603
270	3214	-.015	.095	.327	-.449
270	3215	-.226	.060	-.025	-.564
270	3216	.009	.179	.559	-.821
270	3217	.054	.172	.648	-.822
270	3218	-.020	.086	.339	-.453
270	3219	.004	.088	.414	-.407

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	3220	.041	.095	.455	-.414
270	3221	.077	.094	.475	-.456
270	3222	.041	.059	.313	-.229
270	3223	-.117	.048	.070	-.353
270	3224	-.012	.048	.192	-.195
270	3225	-.039	.043	.149	-.193
270	3226	-.024	.048	.182	-.204
270	3227	.017	.066	.311	-.187
270	3228	.024	.078	.388	-.199
270	3229	-.252	.064	-.088	-.522
270	3230	.037	.149	.558	-.649
270	3231	.102	.130	.589	-.510
270	3232	-.007	.079	.280	-.356
270	3233	.004	.085	.391	-.407
270	3234	-.002	.068	.270	-.342
270	3235	-.248	.062	-.058	-.571
270	3236	-.261	.063	-.059	-.547
270	3237	.082	.121	.527	-.603
270	3238	.113	.107	.537	-.497
270	3239	.029	.071	.360	-.315
270	3240	.026	.073	.379	-.372
270	3241	-.252	.060	-.105	-.519
270	3242	-.260	.061	-.097	-.536
270	3243	.087	.092	.499	-.371
270	3244	.102	.087	.522	-.333
270	3245	.057	.078	.482	-.230
270	3246	.082	.085	.466	-.169
270	3247	.104	.070	.412	-.115
270	3248	.043	.057	.344	-.151
270	3249	-.100	.054	.110	-.363
270	3250	-.068	.043	.124	-.217
270	3251	-.079	.041	.077	-.263
270	3252	-.089	.046	.109	-.266
270	3253	-.283	.080	-.067	-.703
270	3254	-.084	.083	.461	-.187
270	3255	-.248	.067	-.102	-.531
270	3256	-.162	.046	-.020	-.358
270	3257	.057	.063	.387	-.170
270	3258	.014	.057	.286	-.153
270	3259	-.216	.064	-.038	-.652
270	3260	.053	.063	.324	-.121
270	3261	-.102	.043	-.084	-.279
270	3262	-.200	.049	-.067	-.374
270	3263	-.127	.059	-.117	-.393
270	3264	-.252	.057	-.105	-.517
270	3265	-.181	.108	.072	-.777
270	3266	.089	.070	.399	-.128
270	3267	.061	.067	.398	-.123
270	4301	-.212	.064	.050	-.701
270	4302	-.112	.053	.096	-.355
270	4303	-.204	.049	-.028	-.417
270	4304	-.180	.047	-.033	-.375
270	4305	-.176	.047	-.036	-.364
270	4306	-.182	.052	-.029	-.399
270	4307	-.169	.053	.003	-.433
270	4308	-.156	.053	.011	-.559
270	4309	-.175	.058	.001	-.604
270	4310	-.202	.074	-.011	-.597
270	4311	-.188	.048	-.047	-.386
270	4312	-.196	.057	.026	-.577
270	4313	-.184	.052	.021	-.436
270	4314	-.189	.065	-.056	-.681
270	4315	-.183	.048	-.023	-.341
270	4316	-.175	.047	-.016	-.343
270	4317	-.171	.046	-.024	-.335
270	4318	-.172	.044	-.032	-.428
270	4319	-.175	.043	-.037	-.417
270	4320	-.166	.043	-.023	-.414
270	4321	-.170	.043	-.031	-.406
270	4322	-.173	.045	-.039	-.311
270	4323	-.176	.045	-.037	-.310
270	4324	-.163	.044	-.037	-.302
270	4325	-.173	.044	-.048	-.321
270	4326	-.174	.044	-.044	-.348
270	4327	-.179	.044	-.054	-.364
270	4328	-.171	.043	-.045	-.348
270	4329	-.168	.043	-.036	-.340
270	4330	-.179	.041	-.049	-.326
270	4331	-.182	.041	-.054	-.322
270	4332	-.166	.041	-.030	-.305
270	4333	-.177	.041	-.036	-.321
270	4334	-.181	.041	-.037	-.326
270	4335	-.177	.040	-.037	-.315
270	4336	-.171	.040	-.030	-.307
270	4337	-.173	.041	-.050	-.314
270	4338	-.186	.046	-.053	-.401
270	4339	-.186	.046	-.048	-.389
270	4340	-.170	.046	-.033	-.402
270	4341	-.191	.063	-.041	-.618
270	4342	-.195	.058	-.012	-.593
270	4343	-.190	.049	-.007	-.462
270	4344	-.185	.048	-.006	-.533
270	4345	-.181	.046	-.003	-.354
270	4346	-.186	.049	-.023	-.369
270	4347	-.187	.048	-.040	-.357
270	4348	-.167	.045	-.040	-.326
270	4349	-.186	.049	-.039	-.352
270	4350	-.189	.045	-.068	-.384
270	4351	-.182	.046	-.000	-.348
270	4352	-.183	.045	.008	-.343
270	4353	-.178	.044	.006	-.336
270	4354	-.184	.043	.009	-.333
270	4355	-.180	.039	-.066	-.309
270	4356	-.180	.040	-.035	-.315
270	4357	-.192	.046	-.041	-.382
270	4358	-.195	.057	-.008	-.630
270	4359	-.171	.047	-.020	-.386
270	4360	-.222	.064	-.056	-.727
270	4361	-.182	.051	-.030	-.443
270	4362	-.192	.050	-.023	-.426
270	4363	-.163	.047	-.003	-.360
270	4364	-.207	.050	-.028	-.428
270	4365	-.184	.049	.001	-.455
270	4366	-.186	.047	-.006	-.394
270	4367	-.199	.052	-.045	-.380
270	4368	-.210	.048	-.071	-.364
270	4369	-.181	.047	-.045	-.341
270	4370	-.197	.048	-.055	-.361
270	4371	-.188	.048	-.014	-.455
270	4372	-.219	.046	-.040	-.454
270	4373	-.186	.045	-.030	-.402
270	4374	-.201	.046	-.031	-.434
270	4375	-.219	.053	-.047	-.432
270	4376	-.241	.064	-.052	-.687
270	4377	-.206	.054	-.046	-.392
270	4378	-.214	.052	-.060	-.453
270	4379	-.193	.050	-.051	-.377
270	4380	-.210	.055	-.053	-.428
270	4381	-.214	.056	.007	-.449
270	4382	-.209	.053	-.051	-.404
270	4383	-.206	.057	-.042	-.429
270	4384	-.216	.056	-.045	-.428
270	4385	-.205	.053	-.057	-.416
270	4386	-.211	.053	-.054	-.393
270	4387	-.211	.050	-.047	-.408
270	4388	-.226	.051	-.073	-.423
270	4389	-.224	.050	-.069	-.416
270	4390	-.241	.053	-.081	-.448
270	4391	-.221	.054	-.049	-.399
270	4392	-.229	.056	-.057	-.467
270	4393	-.222	.058	.002	-.534
270	4394	-.223	.058	-.007	-.495
270	4395	-.225	.057	-.074	-.577
270	4396	-.227	.059	-.050	-.497
270	4397	-.239	.082	-.014	-.974
270	4398	-.238	.079	-.023	-.894
270	4399	-.219	.055	-.070	-.472
270	4400	-.236	.055	-.082	-.488
270	4401	-.222	.053	-.062	-.475
270	4402	-.245	.060	-.086	-.601

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	4403	-.238	.060	-.047	-.573
270	4404	-.234	.057	-.054	-.428
270	4405	-.266	.069	-.038	-.633
270	4406	-.228	.057	-.073	-.442
270	4407	-.260	.072	-.047	-.609
270	4408	-.277	.070	-.089	-.617
270	4409	-.273	.075	-.059	-.565
270	4410	-.232	.067	-.030	-.469
270	4411	-.196	.062	-.030	-.474
270	4412	-.197	.067	-.011	-.550
270	4413	-.196	.081	-.010	-.647
270	4414	-.209	.081	.007	-.634
270	4415	-.291	.085	-.066	-.668
270	4416	-.172	.073	.047	-.559
270	4417	-.312	.093	-.088	-.685
270	4418	-.159	.073	.072	-.509
270	4419	-.246	.059	-.102	-.489
270	4420	-.231	.060	-.063	-.485
270	4421	-.244	.087	.070	-.594
270	4422	-.191	.076	.043	-.501
270	4423	-.209	.087	.103	-.566
270	4424	-.183	.076	.043	-.596
270	9901	-.139	.062	.124	-.377
270	9902	-.190	.053	-.019	-.494
270	9903	-.196	.052	-.029	-.423
270	9904	-.160	.065	.029	-.490
270	9905	-.149	.059	.000	-.449
285	110	-.252	.147	.115	-1.021
285	111	-.215	.107	.155	-.711
285	112	-.214	.119	.470	-.904
285	130	-.088	.125	.334	-.616
285	140	-.250	.121	.080	-.879
285	141	-.245	.115	.073	-.776
285	142	-.204	.107	.039	-.969
285	143	-.208	.098	.047	-.781
285	144	-.194	.100	.043	-.865
285	145	-.209	.097	.043	-.676
285	220	-.062	.204	.580	-.941
285	221	.410	.166	.979	-.098
285	230	.116	.157	.661	-.496
285	231	-.424	.150	-.057	-1.222
285	310	-.307	.102	-.018	-.923
285	320	.184	.126	.637	-.317
285	321	.306	.164	.898	-.187
285	322	.395	.166	.930	-.105
285	323	.354	.158	.824	-.065
285	324	.415	.167	1.019	-.238
285	325	.382	.155	1.010	-.156
285	330	-.257	.127	.108	-.750
285	331	-.436	.163	.187	-1.099
285	332	-.362	.103	-.043	-.756
285	410	-.182	.081	.051	-.814
285	411	-.182	.097	.295	-.663
285	440	-.180	.071	.051	-.588
285	441	-.167	.063	.034	-.522
285	901	-.284	.084	-.056	-.776
285	902	-.241	.078	.055	-.588
285	903	-.191	.078	.028	-.691
285	904	-.167	.089	.213	-.646
285	905	-.144	.069	.077	-.383
285	906	-.174	.098	.192	-.646
285	907	-.053	.106	.382	-.598
285	908	-.178	.128	.296	-.633
285	909	-.231	.075	.115	-.607
285	910	-.266	.087	.016	-.705
285	911	-.239	.085	.122	-.626
285	912	-.193	.045	-.085	-.370
285	1101	-.226	.116	.128	-.877
285	1102	-.232	.117	.182	-.974
285	1103	-.218	.103	.202	-.791
285	1104	-.231	.107	.148	-.791
285	1105	-.240	.110	.302	-.770
285	1106	-.279	.108	.284	-.791
285	1107	-.274	.094	.076	-.862
285	1108	-.281	.093	.005	-.849
285	1109	-.261	.089	.024	-.635
285	1110	-.340	.105	-.034	-.844
285	1111	-.247	.121	.262	-.736
285	1112	-.330	.109	-.016	-.882
285	1113	-.228	.113	.128	-.837
285	1114	-.262	.093	.024	-.716
285	1115	-.314	.107	-.026	-.848
285	1116	-.248	.117	.075	-.943
285	1117	-.240	.093	.081	-.749
285	1118	-.245	.125	.256	-.863
285	1119	-.238	.114	.221	-.805
285	1120	-.256	.116	.148	-1.058
285	1121	-.274	.127	.190	-1.038
285	1122	-.274	.115	.124	-.944
285	1123	-.265	.101	.086	-.955
285	1124	-.255	.117	.038	-.824
285	1125	-.236	.112	.190	-.697
285	1126	-.235	.103	.177	-.651
285	1127	-.230	.098	.193	-.764
285	1128	-.250	.110	.155	-.849
285	1129	-.233	.109	.204	-.739
285	1130	-.249	.112	.275	-.788
285	1131	-.278	.121	.138	-.907
285	1132	-.272	.107	.056	-.803
285	1133	-.263	.109	.062	-1.050
285	1134	-.264	.101	.071	-.867
285	1135	-.258	.098	.062	-.898
285	1136	-.258	.097	.040	-.732
285	1137	-.294	.115	.032	-.844
285	1138	-.298	.109	.016	-.895
285	1139	-.237	.116	.021	-1.046
285	1140	-.218	.099	.216	-.828
285	1141	-.223	.100	.172	-.876
285	1142	-.232	.103	.078	-.883
285	1143	-.260	.116	.074	-.991
285	1144	-.247	.101	.052	-.669
285	1145	-.246	.092	.032	-.667
285	1146	-.259	.131	.052	-1.067
285	1147	-.254	.124	.060	-.925
285	1148	-.250	.129	.138	-1.111
285	1149	-.256	.125	.108	-.860
285	1150	-.249	.097	.025	-.699
285	1151	-.301	.113	.015	-.790
285	1152	-.288	.107	.021	-.748
285	1153	-.299	.117	.043	-.821
285	1154	-.259	.134	.050	-.938
285	1155	-.253	.127	.053	-.891
285	1156	-.250	.135	.162	-1.030
285	1157	-.266	.136	.142	-.932
285	1158	-.264	.102	.014	-.781
285	1159	-.313	.120	.003	-.882
285	1160	-.301	.114	.008	-.862
285	1161	-.272	.133	.062	-1.042
285	1162	-.262	.124	.076	-.867
285	1163	-.264	.131	.193	-1.010
285	1164	-.248	.114	.147	-.882
285	1165	-.250	.114	.087	-.968
285	1166	-.261	.117	.154	-.912
285	1167	-.284	.128	.072	-1.186
285	1168	-.275	.115	.037	-1.048
285	1169	-.281	.111	.048	-.867
285	1170	-.275	.109	.065	-.772
285	1171	-.322	.126	.012	-.875
285	1172	-.312	.121	-.006	-.853
285	1173	-.265	.127	.232	-1.139
285	1174	-.316	.127	.138	-.996
285	1175	-.271	.127	.067	-1.120
285	1176	-.261	.120	.046	-.891
285	1177	-.275	.140	.225	-1.040
285	1178	-.270	.139	.189	-1.076
285	1179	-.288	.115	.008	-.886
285	1180	-.330	.132	.028	-1.095
285	1181	-.317	.116	.094	-1.166
285	1182	-.279	.129	.136	-.872
285	1183	-.275	.124	.156	-.886

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
285	1184	-.270	.131	.189	-.985
285	1185	-.282	.131	.195	-.911
285	1186	-.300	.113	-.002	-.867
285	1187	-.349	.132	-.001	-.991
285	1188	-.338	.127	-.013	-.940
285	1189	-.266	.122	.023	-.870
285	1190	-.258	.119	.010	-.838
285	1191	-.256	.127	.220	-.852
285	1192	-.243	.114	.147	-.802
285	1193	-.262	.114	.248	-.876
285	1194	-.279	.119	.274	-.923
285	1195	-.304	.128	.042	-1.044
285	1196	-.304	.126	.039	-1.106
285	1197	-.315	.116	.018	-.918
285	1198	-.310	.117	.030	-.989
285	1199	-.352	.129	.010	-1.154
285	1200	-.277	.132	.153	-1.061
285	1201	-.266	.112	.023	-.936
285	1202	-.262	.126	.196	-.974
285	1203	-.260	.119	.179	-.893
285	1204	-.307	.123	.032	-1.003
285	1205	-.362	.135	-.023	-1.281
285	1206	-.356	.133	-.030	-1.291
285	1207	-.261	.114	.056	-.751
285	1208	-.254	.108	.059	-.752
285	1209	-.263	.126	.094	-.865
285	1210	-.255	.119	.096	-.794
285	1211	-.321	.122	.015	-.918
285	1212	-.359	.136	-.017	-1.044
285	1213	-.368	.150	-.007	-1.162
285	1214	-.250	.131	.212	-.871
285	1215	-.369	.161	-.008	-1.123
285	1216	-.234	.106	.085	-.731
285	1217	-.232	.108	.013	-.873
285	1218	-.220	.114	.214	-.766
285	1219	-.221	.114	.167	-.699
285	1220	-.225	.110	.087	-.706
285	1221	-.240	.118	.223	-.821
285	1222	-.272	.125	.164	-.914
285	1223	-.288	.134	.282	-.932
285	1224	-.312	.144	.225	-1.088
285	1225	-.339	.162	.043	-1.840
285	1226	-.333	.152	.073	-1.552
285	1227	-.332	.152	.078	-1.231
285	1228	-.331	.151	.049	-1.170
285	1229	-.353	.147	-.029	-1.395
285	1230	-.233	.104	.013	-.739
285	1231	-.236	.107	.007	-.746
285	1232	-.206	.105	.123	-.820
285	1233	-.184	.101	.201	-.742
285	1234	-.318	.162	.059	-1.234
285	1235	-.351	.171	-.003	-1.283
285	1236	-.346	.168	.000	-1.203
285	1237	-.192	.112	.045	-.883
285	1238	-.202	.118	.035	-.899
285	1239	-.143	.089	.194	-.559
285	1240	-.139	.084	.164	-.552
285	1241	-.359	.178	.035	-1.429
285	1242	-.355	.172	.052	-1.444
285	1243	-.173	.128	.039	-1.067
285	1244	-.186	.128	.025	-1.158
285	1245	-.081	.076	.256	-.430
285	1246	-.097	.069	.221	-.429
285	1247	-.121	.077	.171	-.549
285	1248	-.146	.088	.152	-.656
285	1249	-.183	.107	.186	-.784
285	1250	-.255	.135	.102	-.988
285	1251	-.290	.158	.125	-1.261
285	1252	-.314	.181	.075	-1.486
285	1253	-.326	.169	.038	-1.645
285	1254	-.100	.050	.030	-.383
285	1255	-.309	.179	.021	-1.425
285	1256	-.220	.133	.078	-1.032
285	1257	-.102	.047	.058	-.323
285	1258	-.071	.040	.092	-.323
285	1259	-.091	.064	.179	-.390
285	1260	-.026	.052	.290	-.270
285	1261	.008	.066	.441	-.197
285	1262	-.025	.069	.336	-.273
285	1263	-.070	.100	.240	-.721
285	1264	-.022	.066	.263	-.272
285	1265	.067	.071	.398	-.171
285	1266	-.036	.044	.231	-.191
285	1267	-.097	.049	.035	-.380
285	1901	-.170	.188	.498	-.859
285	1902	-.273	.093	-.015	-.768
285	1903	-.338	.123	-.020	-1.010
285	1904	-.348	.094	-.096	-.724
285	1905	-.335	.081	-.104	-.641
285	1906	-.306	.087	-.057	-.687
285	1907	-.282	.078	-.041	-.620
285	1908	-.209	.119	.261	-.697
285	1909	-.338	.100	-.027	-.758
285	1910	-.290	.095	-.014	-.699
285	1911	-.328	.092	-.052	-.678
285	1912	-.341	.059	-.189	-.553
285	2301	-.103	.321	.859	-1.306
285	2302	.395	.136	.899	-.102
285	2303	.279	.145	.894	-.111
285	2304	.245	.138	.817	-.140
285	2305	.238	.149	.874	-.343
285	2306	.279	.143	.896	-.126
285	2307	.291	.139	.817	-.115
285	2308	.353	.148	.914	-.062
285	2309	.428	.161	1.055	-.056
285	2310	.328	.188	.927	-.430
285	2311	-.398	.196	.531	-1.487
285	2312	-.436	.173	.150	-1.034
285	2313	.341	.146	.916	-.225
285	2314	-.039	.240	.762	-1.058
285	2315	-.427	.196	.446	-1.234
285	2316	-.433	.179	.197	-1.255
285	2317	.303	.139	.810	-.131
285	2318	.293	.135	.856	-.147
285	2319	.314	.129	.846	-.080
285	2320	.306	.124	.826	-.082
285	2321	.391	.151	1.015	-.091
285	2322	.339	.158	.870	-.110
285	2323	.348	.156	.909	-.085
285	2324	.400	.161	1.004	-.032
285	2325	.372	.159	.934	-.071
285	2326	.407	.173	1.038	-.161
285	2327	.392	.171	1.012	-.168
285	2328	.384	.163	.954	-.149
285	2329	.425	.167	1.028	.003
285	2330	.419	.169	.995	-.046
285	2331	.425	.163	.981	-.024
285	2332	.439	.163	.984	-.030
285	2333	.428	.167	.991	-.049
285	2334	.399	.160	.995	-.006
285	2335	.418	.157	1.014	.014
285	2336	.419	.155	.995	.006
285	2337	.393	.157	1.026	-.014
285	2338	.421	.164	1.013	-.118
285	2339	.409	.162	.982	-.108
285	2340	.401	.151	.948	-.019
285	2341	-.119	.261	.662	-1.094
285	2342	-.070	.295	.804	-1.155
285	2343	-.438	.207	.317	-1.411
285	2344	-.441	.180	.022	-1.203
285	2345	.287	.144	.823	-.142
285	2346	-.435	.204	.232	-1.371
285	2347	-.445	.190	.184	-1.389
285	2348	.250	.123	.732	-.151
285	2349	-.444	.221	.568	-1.495
285	2350	.238	.133	.684	-.247
285	2351	.238	.122	.668	-.082
285	2352	.289	.127	.780	-.067
285	2353	.369	.164	1.013	-.061
285	2354	.363	.149	1.028	-.065

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
285	2355	.361	.156	.905	-.048
285	2356	.347	.150	.885	-.030
285	2357	.345	.148	.890	-.071
285	2358	-.083	.304	.810	-1.619
285	2359	-.223	.134	.718	-.207
285	2360	-.149	.263	.625	-1.107
285	2361	-.425	.211	.309	-1.401
285	2362	-.460	.202	.161	-1.453
285	2363	-.192	.135	.741	-.211
285	2364	-.423	.210	.361	-1.358
285	2365	-.419	.197	.087	-1.408
285	2366	.164	.128	.596	-.204
285	2367	-.415	.211	.593	-1.257
285	2368	.146	.122	.634	-.227
285	2369	.158	.115	.772	-.163
285	2370	.177	.122	.691	-.135
285	2371	.181	.141	.744	-.223
285	2372	.235	.139	.909	-.102
285	2373	.265	.145	.963	-.109
285	2374	.243	.145	.907	-.129
285	2375	.232	.137	.832	-.144
285	2376	-.032	.265	.697	-1.177
285	2377	-.412	.219	.385	-1.827
285	2378	-.453	.171	.041	-1.401
285	2379	.098	.119	.645	-.290
285	2380	-.406	.209	.254	-1.504
285	2381	-.451	.207	.105	-1.644
285	2382	.058	.108	.616	-.316
285	2383	-.443	.224	.129	-1.616
285	2384	-.457	.215	.025	-1.475
285	2385	.041	.102	.549	-.332
285	2386	.024	.095	.665	-.318
285	2387	.006	.078	.426	-.228
285	2388	-.001	.073	.415	-.254
285	2389	.036	.080	.456	-.185
285	2390	.047	.089	.417	-.198
285	2391	.107	.105	.615	-.162
285	2392	.129	.112	.664	-.135
285	2393	.125	.113	.643	-.157
285	2394	.131	.118	.672	-.154
285	2395	.125	.110	.703	-.157
285	2396	.132	.123	.640	-.220
285	2397	-.009	.218	.666	-1.023
285	2398	.042	.188	.638	-.961
285	2399	-.417	.218	.170	-1.329
285	2400	-.435	.211	.020	-1.342
285	2401	-.007	.081	.389	-.297
285	2402	-.423	.222	.098	-1.486
285	2403	-.453	.208	-.004	-1.696
285	2404	-.013	.071	.330	-.227
285	2405	-.400	.204	.092	-1.622
285	2406	-.019	.057	.252	-.222
285	2407	.016	.056	.293	-.152
285	2408	.079	.069	.441	-.101
285	2409	.126	.086	.586	-.085
285	2410	.141	.087	.606	-.036
285	2411	.122	.078	.391	-.087
285	2412	.095	.070	.369	-.109
285	2413	.047	.064	.513	-.139
285	2414	.025	.092	.471	-.485
285	2415	-.187	.166	.399	-1.005
285	2416	.018	.079	.332	-.394
285	2417	-.110	.078	.132	-.482
285	2418	.034	.060	.268	-.142
285	3101	-.573	.179	.200	-1.274
285	3102	-.423	.125	-.099	-.913
285	3103	-.420	.126	-.005	-.933
285	3104	-.339	.165	.265	-.944
285	3105	-.124	.174	.431	-.705
285	3106	-.200	.113	.228	-.697
285	3107	-.020	.097	.319	-.550
285	3108	.039	.119	.442	-.502
285	3109	.102	.144	.572	-.494
285	3110	-.215	.094	.093	-.687
285	3111	-.405	.126	.035	-.898
285	3112	-.211	.093	.010	-.632
285	3113	-.520	.205	.303	-1.284
285	3114	.055	.121	.594	-.322
285	3115	-.191	.084	.032	-.736
285	3116	-.517	.204	.322	-1.393
285	3117	.028	.131	.585	-.492
285	3118	-.377	.142	.122	-.930
285	3119	-.306	.178	.342	-.998
285	3120	-.170	.172	.273	-.794
285	3121	-.180	.099	.082	-.668
285	3122	-.082	.104	.163	-.576
285	3123	-.041	.087	.192	-.457
285	3124	-.543	.176	-.012	-1.420
285	3125	-.377	.136	-.031	-.999
285	3126	-.362	.141	.066	-.927
285	3127	-.268	.183	.384	-.946
285	3128	-.234	.212	.295	-1.106
285	3129	-.202	.196	.328	-.869
285	3130	-.135	.175	.327	-.864
285	3131	-.154	.106	.224	-.793
285	3132	-.058	.123	.290	-.547
285	3133	-.058	.098	.220	-.625
285	3134	-.030	.092	.267	-.612
285	3135	-.016	.088	.292	-.566
285	3136	.010	.104	.510	-.549
285	3137	-.192	.081	.085	-.619
285	3138	-.189	.080	.058	-.679
285	3139	-.541	.184	.252	-1.202
285	3140	-.379	.164	.162	-1.083
285	3141	-.195	.253	.630	-1.122
285	3142	-.120	.232	.617	-1.108
285	3143	-.123	.150	.370	-.859
285	3144	.007	.147	.547	-.739
285	3145	.024	.130	.490	-.563
285	3146	-.507	.168	.332	-1.156
285	3147	-.498	.180	.363	-1.176
285	3148	-.341	.131	.085	-.933
285	3149	-.351	.148	.063	-1.015
285	3150	-.003	.125	.436	-.643
285	3151	-.193	.082	.049	-.697
285	3152	-.185	.082	.064	-.709
285	3153	-.186	.086	.040	-1.008
285	3154	-.481	.180	.247	-1.363
285	3155	-.471	.196	.318	-1.405
285	3156	-.334	.150	.075	-1.166
285	3157	-.333	.145	.060	-.964
285	3158	-.016	.122	.563	-.552
285	3159	-.194	.083	.078	-.797
285	3160	-.186	.081	.081	-.833
285	3161	-.472	.174	.232	-1.329
285	3162	-.478	.192	.319	-1.389
285	3163	-.349	.153	.136	-1.242
285	3164	-.330	.156	.157	-1.268
285	3165	-.261	.181	.305	-1.122
285	3166	-.151	.168	.314	-.885
285	3167	-.153	.107	.169	-.802
285	3168	-.060	.104	.225	-.654
285	3169	-.038	.093	.256	-.587
285	3170	-.023	.112	.384	-.671
285	3171	-.190	.078	.045	-.708
285	3172	-.182	.075	.066	-.619
285	3173	-.315	.152	.096	-1.019
285	3174	-.199	.086	.026	-.998
285	3175	-.458	.192	.180	-1.220
285	3176	-.432	.210	.327	-1.248
285	3177	-.307	.151	.089	-1.028
285	3178	-.328	.158	.085	-1.058
285	3179	-.008	.123	.450	-.554
285	3180	-.185	.083	.022	-.744
285	3181	-.185	.082	.047	-.674
285	3182	-.444	.217	.295	-1.396
285	3183	-.414	.240	.365	-1.463
285	3184	-.304	.167	.127	-1.163
285	3185	-.310	.172	.094	-1.046
285	3186	-.003	.121	.444	-.573

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
285	3187	-.199	.087	0.000	-.913
285	3188	-.193	.086	.014	-.920
285	3189	-.393	.227	.336	-1.398
285	3190	-.381	.254	.535	-1.383
285	3191	-.277	.174	.094	-1.220
285	3192	-.254	.175	.153	-1.176
285	3193	-.159	.194	.350	-1.013
285	3194	-.074	.147	.366	-1.060
285	3195	-.127	.086	.198	-.804
285	3196	-.033	.083	.357	-.572
285	3197	-.022	.071	.261	-.396
285	3198	-.008	.090	.342	-.417
285	3199	-.185	.078	.018	-.750
285	3200	-.331	.216	.455	-1.305
285	3201	-.251	.237	.454	-1.191
285	3202	-.229	.152	.115	-1.071
285	3203	-.225	.153	.105	-1.082
285	3204	.019	.092	.490	-.393
285	3205	-.174	.077	.038	-.630
285	3206	-.192	.078	.013	-.664
285	3207	-.280	.233	.490	-1.198
285	3208	-.203	.240	.503	-1.159
285	3209	-.178	.144	.132	-.928
285	3210	-.192	.146	.122	-.900
285	3211	.021	.087	.376	-.367
285	3212	-.169	.078	.001	-.702
285	3213	-.185	.078	-.004	-.682
285	3214	-.168	.142	.178	-.983
285	3215	-.163	.075	.057	-.577
285	3216	-.165	.211	.482	-1.159
285	3217	-.150	.199	.488	-1.055
285	3218	-.145	.124	.164	-.869
285	3219	-.118	.124	.272	-.857
285	3220	-.094	.145	.382	-1.012
285	3221	-.043	.124	.400	-.820
285	3222	-.019	.074	.362	-.434
285	3223	-.106	.059	.211	-.450
285	3224	-.040	.053	.210	-.357
285	3225	-.049	.049	.174	-.411
285	3226	-.027	.055	.231	-.365
285	3227	.003	.068	.351	-.392
285	3228	.008	.080	.357	-.402
285	3229	-.186	.077	.002	-.646
285	3230	-.099	.174	.493	-.978
285	3231	-.039	.167	.483	-.945
285	3232	-.096	.111	.264	-1.016
285	3233	-.105	.107	.208	-.881
285	3234	-.011	.066	.280	-.240
285	3235	-.170	.081	.009	-.723
285	3236	-.183	.083	.010	-.752
285	3237	-.047	.127	.362	-.601
285	3238	-.011	.118	.446	-.545
285	3239	-.035	.088	.272	-.544
285	3240	-.035	.091	.326	-.502
285	3241	-.169	.077	.007	-.748
285	3242	-.169	.079	.033	-.620
285	3243	.001	.092	.344	-.418
285	3244	.003	.091	.344	-.460
285	3245	-.001	.079	.337	-.418
285	3246	.018	.078	.342	-.320
285	3247	.035	.075	.482	-.284
285	3248	.008	.054	.264	-.173
285	3249	-.068	.054	.188	-.312
285	3250	-.048	.042	.195	-.285
285	3251	-.052	.042	.139	-.333
285	3252	-.055	.047	.288	-.259
285	3253	-.167	.078	.007	-.529
285	3254	.017	.072	.380	-.316
285	3255	-.134	.064	.025	-.489
285	3256	-.084	.038	.041	-.239
285	3257	.016	.057	.321	-.194
285	3258	.008	.052	.295	-.129
285	3259	-.097	.051	.037	-.352
285	3260	-.031	.058	.324	-.130
285	3261	-.048	.044	.124	-.233
285	3262	-.101	.047	.006	-.334
285	3263	-.064	.048	.126	-.311
285	3264	-.136	.056	-.003	-.433
285	3265	-.152	.073	.034	-.522
285	3266	.069	.068	.355	-.125
285	3267	.053	.066	.370	-.111
285	4301	-.196	.086	.036	-.814
285	4302	-.087	.061	.086	-.333
285	4303	-.166	.061	.037	-.447
285	4304	-.134	.054	.042	-.362
285	4305	-.131	.052	.050	-.440
285	4306	-.147	.059	.057	-.369
285	4307	-.147	.056	.067	-.367
285	4308	-.139	.055	.063	-.352
285	4309	-.155	.060	.050	-.394
285	4310	-.195	.088	.054	-.652
285	4311	-.163	.068	.047	-.519
285	4312	-.175	.074	.019	-.698
285	4313	-.155	.059	.009	-.399
285	4314	-.216	.102	.024	-.705
285	4315	-.161	.067	.042	-.560
285	4316	-.155	.068	.044	-.608
285	4317	-.145	.057	.027	-.467
285	4318	-.150	.054	.012	-.371
285	4319	-.151	.052	.005	-.367
285	4320	-.142	.052	.016	-.373
285	4321	-.144	.049	.008	-.345
285	4322	-.143	.048	-.005	-.310
285	4323	-.147	.048	-.006	-.362
285	4324	-.133	.046	.008	-.290
285	4325	-.142	.047	-.012	-.318
285	4326	-.141	.047	-.007	-.312
285	4327	-.144	.047	-.006	-.316
285	4328	-.137	.047	-.006	-.343
285	4329	-.143	.046	-.012	-.304
285	4330	-.140	.046	-.010	-.289
285	4331	-.143	.046	-.018	-.288
285	4332	-.134	.046	-.001	-.286
285	4333	-.141	.046	-.019	-.283
285	4334	-.147	.045	.019	-.324
285	4335	-.147	.045	.005	-.337
285	4336	-.138	.045	.008	-.338
285	4337	-.152	.048	.008	-.391
285	4338	-.158	.051	.007	-.420
285	4339	-.156	.054	.017	-.411
285	4340	-.152	.051	-.006	-.354
285	4341	-.230	.108	.022	-.754
285	4342	-.209	.098	.087	-.835
285	4343	-.159	.062	.056	-.549
285	4344	-.156	.065	.058	-.549
285	4345	-.144	.052	.027	-.332
285	4346	-.170	.068	.007	-.591
285	4347	-.168	.072	.033	-.941
285	4348	-.145	.057	.025	-.627
285	4349	-.164	.067	.040	-.678
285	4350	-.150	.053	.045	-.406
285	4351	-.144	.050	.007	-.409
285	4352	-.145	.048	.014	-.383
285	4353	-.137	.045	.008	-.354
285	4354	-.145	.044	-.008	-.352
285	4355	-.151	.046	.038	-.317
285	4356	-.158	.050	.060	-.346
285	4357	-.171	.057	.010	-.476
285	4358	-.233	.114	.059	-.835
285	4359	-.130	.057	.073	-.568
285	4360	-.260	.120	.017	-.888
285	4361	-.150	.071	.070	-.826
285	4362	-.174	.076	.006	-.788
285	4363	-.130	.058	.009	-.450
285	4364	-.171	.067	.007	-.761
285	4365	-.150	.068	.027	-.852
285	4366	-.148	.055	.013	-.423
285	4367	-.165	.070	.018	-.679
285	4368	-.165	.055	-.011	-.461
285	4369	-.138	.054	.006	-.402

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
285	4370	-.153	.052	-.012	-.410
285	4371	-.128	.046	-.005	-.312
285	4372	-.165	.047	-.018	-.373
285	4373	-.147	.052	.008	-.473
285	4374	-.171	.059	.013	-.476
285	4375	-.181	.065	.056	-.603
285	4376	-.266	.119	.074	-.854
285	4377	-.151	.064	.025	-.677
285	4378	-.156	.068	.006	-.947
285	4379	-.139	.057	.019	-.372
285	4380	-.139	.063	.017	-.694
285	4381	-.155	.069	.012	-.605
285	4382	-.145	.059	.038	-.480
285	4383	-.132	.062	.031	-.493
285	4384	-.150	.064	.022	-.512
285	4385	-.136	.056	.012	-.410
285	4386	-.124	.052	.004	-.536
285	4387	-.129	.056	.031	-.393
285	4388	-.144	.056	.013	-.414
285	4389	-.144	.056	.019	-.407
285	4390	-.158	.059	.063	-.524
285	4391	-.130	.054	.048	-.341
285	4392	-.162	.067	.006	-.535
285	4393	-.174	.079	.012	-.681
285	4394	-.174	.076	.045	-.732
285	4395	-.188	.072	.012	-.623
285	4396	-.203	.083	.034	-.635
285	4397	-.237	.108	.040	-.755
285	4398	-.231	.104	.028	-.697
285	4399	-.122	.054	.045	-.417
285	4400	-.136	.054	.013	-.414
285	4401	-.125	.049	.026	-.367
285	4402	-.124	.051	.024	-.386
285	4403	-.110	.049	.019	-.367
285	4404	-.114	.046	.027	-.322
285	4405	-.112	.046	.014	-.350
285	4406	-.114	.046	.013	-.363
285	4407	-.111	.048	.038	-.353
285	4408	-.132	.051	.031	-.391
285	4409	-.152	.066	.031	-.503
285	4410	-.124	.054	.040	-.360
285	4411	-.110	.059	.029	-.381
285	4412	-.139	.078	.071	-.605
285	4413	-.163	.092	.026	-.783
285	4414	-.179	.109	.038	-1.044
285	4415	-.105	.053	.062	-.317
285	4416	-.125	.092	.078	-.693
285	4417	-.116	.055	.038	-.331
285	4418	-.116	.067	.119	-.461
285	4419	-.130	.055	.009	-.361
285	4420	-.101	.051	.033	-.327
285	4421	-.077	.050	.085	-.326
285	4422	-.084	.049	.084	-.340
285	4423	-.102	.051	.034	-.411
285	4424	-.117	.056	.028	-.389
285	9901	-.054	.052	.179	-.294
285	9902	-.086	.043	.053	-.298
285	9903	-.085	.043	.031	-.292
285	9904	-.106	.055	.059	-.458
285	9905	-.107	.045	.025	-.348
300	110	-.375	.216	.193	-1.439
300	111	-.265	.120	.097	-.920
300	112	.033	.234	.855	-.823
300	130	-.148	.121	.541	-.714
300	140	-.246	.110	.051	-.963
300	141	-.242	.107	.030	-.828
300	142	-.207	.089	.085	-.741
300	143	-.223	.100	.055	-.785
300	144	-.178	.074	.003	-.615
300	145	-.217	.104	.068	-.940
300	220	.203	.207	.815	-.713
300	221	.395	.160	.917	-.031
300	230	-.152	.160	.390	-.926
300	231	-.626	.184	-.059	-1.278
300	310	-.222	.096	.079	-.661
300	320	.270	.145	.768	-.124
300	321	.167	.137	.718	-.383
300	322	.421	.165	1.046	-.069
300	323	.264	.176	.854	-.601
300	324	.425	.162	.985	-.085
300	325	.306	.177	.887	-.727
300	330	-.189	.128	.243	-.859
300	331	-.362	.120	-.040	-.873
300	332	-.314	.107	-.012	-.704
300	410	-.197	.111	.170	-.949
300	411	-.189	.118	.345	-.736
300	440	-.224	.113	.059	-.814
300	441	-.209	.104	.026	-.812
300	901	-.382	.112	-.065	-1.001
300	902	-.352	.114	.041	-.826
300	903	-.323	.126	.055	-1.121
300	904	-.141	.166	.533	-.848
300	905	-.114	.083	.210	-.480
300	906	-.143	.115	.343	-.606
300	907	-.224	.119	.296	-.643
300	908	-.280	.136	.259	-.789
300	909	-.266	.106	.062	-.728
300	910	-.332	.119	.170	-.841
300	911	-.263	.112	-.234	-.787
300	912	-.169	.058	-.003	-.403
300	1101	-.232	.119	.110	-.820
300	1102	-.091	.159	.503	-.783
300	1103	-.106	.152	.398	-.886
300	1104	-.157	.145	.335	-.822
300	1105	-.261	.123	.189	-.841
300	1106	-.295	.154	.328	-.841
300	1107	-.432	.143	.085	-.925
300	1108	-.444	.128	-.101	-.973
300	1109	-.458	.125	-.057	-1.073
300	1110	-.609	.162	-.113	-1.352
300	1111	-.093	.146	.401	-.643
300	1112	-.596	.165	-.007	-1.426
300	1113	-.226	.108	.089	-.767
300	1114	-.461	.136	-.074	-1.352
300	1115	-.612	.176	-.055	-1.449
300	1116	-.225	.108	.080	-.756
300	1117	-.442	.131	-.033	-1.011
300	1118	-.120	.155	.465	-.755
300	1119	-.170	.169	.355	-.761
300	1120	-.278	.168	.236	-.872
300	1121	-.343	.192	.342	-.965
300	1122	-.399	.178	.248	-1.123
300	1123	-.459	.143	-.060	-1.303
300	1124	-.214	.102	.139	-.841
300	1125	-.130	.127	.357	-.738
300	1126	-.148	.121	.409	-.755
300	1127	-.188	.129	.233	-.785
300	1128	-.227	.149	.198	-.940
300	1129	-.228	.153	.249	-.882
300	1130	-.286	.148	.127	-.876
300	1131	-.348	.164	.223	-1.039
300	1132	-.396	.155	.078	-1.086
300	1133	-.416	.164	.223	-1.264
300	1134	-.421	.141	.085	-1.109
300	1135	-.441	.134	-.048	-1.034
300	1136	-.442	.132	-.066	-1.023
300	1137	-.540	.157	.098	-1.321
300	1138	-.574	.173	-.094	-1.247
300	1139	-.205	.100	.116	-.819
300	1140	-.170	.116	.236	-.665
300	1141	-.261	.146	.171	-.886
300	1142	-.323	.146	.128	-.926
300	1143	-.368	.155	.184	-.964
300	1144	-.437	.139	.067	-1.017
300	1145	-.437	.135	-.046	-.994
300	1146	-.211	.113	.231	-.850
300	1147	-.217	.111	.119	-.887
300	1148	-.156	.165	.507	-.929
300	1149	-.163	.153	.376	-1.118
300	1150	-.421	.135	-.018	-1.102

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	1151	-.547	.161	-.097	-1.308
300	1152	-.538	.156	-.101	-1.285
300	1153	-.512	.167	.193	-1.597
300	1154	-.210	.107	.167	-.707
300	1155	-.213	.105	.085	-.715
300	1156	-.158	.160	.410	-.872
300	1157	-.161	.146	.366	-.703
300	1158	-.403	.132	-.051	-.977
300	1159	-.523	.168	.041	-1.247
300	1160	-.517	.164	-.073	-1.207
300	1161	-.218	.111	.073	-.777
300	1162	-.217	.108	.090	-.834
300	1163	-.158	.155	.479	-.858
300	1164	-.168	.136	.270	-.779
300	1165	-.218	.155	.225	-.894
300	1166	-.288	.158	.229	-1.003
300	1167	-.338	.170	.167	-.967
300	1168	-.402	.151	.127	-1.071
300	1169	-.415	.140	-.024	-1.013
300	1170	-.408	.140	-.042	-.998
300	1171	-.522	.169	.060	-1.269
300	1172	-.525	.167	-.047	-1.274
300	1173	-.154	.161	.462	-.789
300	1174	-.510	.175	-.058	-1.264
300	1175	-.209	.108	.109	-.819
300	1176	-.210	.106	.065	-.791
300	1177	-.155	.163	.466	-.965
300	1178	-.156	.152	.499	-.900
300	1179	-.403	.144	-.039	-1.051
300	1180	-.515	.178	-.051	-1.390
300	1181	-.528	.168	-.056	-1.333
300	1182	-.211	.104	.088	-.756
300	1183	-.216	.103	.073	-.719
300	1184	-.135	.156	.543	-.896
300	1185	-.149	.150	.347	-.869
300	1186	-.408	.152	-.002	-1.201
300	1187	-.521	.188	-.053	-1.388
300	1188	-.527	.188	-.054	-1.414
300	1189	-.209	.102	.166	-.908
300	1190	-.212	.105	.097	-1.015
300	1191	-.118	.147	.387	-1.005
300	1192	-.132	.135	.289	-.829
300	1193	-.169	.143	.303	-.857
300	1194	-.236	.154	.245	-1.010
300	1195	-.277	.177	.310	-1.003
300	1196	-.362	.172	.303	-1.257
300	1197	-.384	.145	-.015	-1.099
300	1198	-.382	.143	-.014	-1.071
300	1199	-.500	.177	-.022	-1.272
300	1200	-.193	.094	.070	-.758
300	1201	-.211	.096	.059	-.996
300	1202	-.097	.145	.348	-.944
300	1203	-.099	.130	.293	-.814
300	1204	-.373	.153	.006	-1.140
300	1205	-.484	.197	.286	-1.612
300	1206	-.502	.197	.083	-1.603
300	1207	-.194	.095	.097	-.778
300	1208	-.195	.094	.075	-.686
300	1209	-.063	.135	.420	-.679
300	1210	-.067	.123	.417	-.596
300	1211	-.339	.169	.014	-1.204
300	1212	-.432	.209	.117	-1.514
300	1213	-.437	.196	.042	-1.255
300	1214	-.064	.138	.445	-.858
300	1215	-.381	.192	.232	-1.226
300	1216	-.192	.084	.086	-.649
300	1217	-.213	.090	.024	-.650
300	1218	-.080	.126	.477	-.652
300	1219	-.093	.117	.353	-.690
300	1220	-.108	.100	.291	-.629
300	1221	-.097	.111	.237	-.674
300	1222	-.145	.125	.269	-.805
300	1223	-.158	.156	.288	-.961
300	1224	-.245	.180	.377	-1.301
300	1225	-.277	.180	.232	-1.582
300	1226	-.274	.155	.139	-1.421
300	1227	-.284	.151	.090	-1.440
300	1228	-.283	.149	.046	-1.354
300	1229	-.411	.192	.190	-1.416
300	1230	-.208	.096	.039	-.792
300	1231	-.214	.098	.023	-.796
300	1232	-.063	.108	.372	-.786
300	1233	-.072	.104	.380	-.567
300	1234	-.258	.155	.102	-1.123
300	1235	-.327	.174	.134	-1.223
300	1236	-.334	.171	.069	-1.157
300	1237	-.217	.103	.146	-.728
300	1238	-.227	.104	.069	-.747
300	1239	-.059	.085	.278	-.477
300	1240	-.059	.075	.258	-.477
300	1241	-.242	.145	.120	-1.071
300	1242	-.246	.141	.129	-1.093
300	1243	-.234	.125	.059	-1.105
300	1244	-.237	.125	-.012	-1.122
300	1245	-.036	.061	.291	-.334
300	1246	-.040	.057	.259	-.279
300	1247	-.048	.060	.288	-.330
300	1248	-.039	.069	.281	-.351
300	1249	-.058	.083	.323	-.521
300	1250	-.112	.106	.237	-.855
300	1251	-.131	.109	.149	-.894
300	1252	-.136	.112	.193	-.925
300	1253	-.170	.113	.123	-.842
300	1254	-.081	.040	.097	-.314
300	1255	-.117	.094	.138	-.704
300	1256	-.080	.082	.198	-.490
300	1257	-.122	.050	.019	-.329
300	1258	-.066	.043	.084	-.271
300	1259	-.023	.064	.335	-.348
300	1260	-.007	.060	.289	-.250
300	1261	.065	.064	.416	-.113
300	1262	.062	.062	.345	-.154
300	1263	.049	.066	.427	-.371
300	1264	.057	.058	.400	-.136
300	1265	.053	.064	.323	-.211
300	1266	-.008	.041	.191	-.141
300	1267	-.090	.041	.041	-.273
300	1901	-.179	.122	.340	-.725
300	1902	-.283	.120	.170	-1.007
300	1903	-.328	.112	.066	-.864
300	1904	-.316	.102	-.030	-.770
300	1905	-.298	.089	-.059	-.632
300	1906	-.281	.094	-.013	-.680
300	1907	-.287	.089	-.037	-.649
300	1908	-.451	.167	.107	-1.169
300	1909	-.338	.106	-.056	-.902
300	1910	-.309	.105	.041	-.938
300	1911	-.305	.095	.060	-.743
300	1912	-.287	.051	-.127	-.461
300	2301	.208	.237	.903	-.866
300	2302	.438	.145	.964	-.008
300	2303	.332	.145	.861	-.053
300	2304	.287	.137	.849	-.086
300	2305	.278	.139	.895	-.078
300	2306	.279	.137	.838	-.147
300	2307	.285	.138	.902	-.068
300	2308	.341	.148	1.002	-.053
300	2309	.409	.157	1.022	-.125
300	2310	.194	.251	1.040	-.843
300	2311	-.240	.292	.691	-1.564
300	2312	-.333	.264	.476	-1.344
300	2313	.396	.158	.942	-.079
300	2314	-.392	.232	.372	-1.224
300	2315	-.358	.303	.683	-1.375
300	2316	-.451	.258	.438	-1.416
300	2317	.361	.154	.977	-.089
300	2318	.356	.149	.918	-.150
300	2319	.400	.150	.948	-.087
300	2320	.392	.145	.947	-.064
300	2321	.444	.158	1.028	-.072

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	2322	.434	.170	.938	-.009
300	2323	.442	.166	.972	.022
300	2324	.467	.168	1.046	.043
300	2325	.451	.168	.988	.014
300	2326	.435	.165	1.091	.030
300	2327	.445	.162	1.070	.043
300	2328	.442	.159	1.072	.045
300	2329	.425	.164	1.065	.003
300	2330	.426	.166	1.169	-.056
300	2331	.440	.160	1.167	-.019
300	2332	.425	.154	1.087	.017
300	2333	.422	.160	1.129	-.037
300	2334	.410	.159	1.019	.021
300	2335	.421	.154	1.050	.041
300	2336	.442	.156	1.041	.028
300	2337	.361	.149	.968	-.007
300	2338	.373	.137	.855	-.040
300	2339	.375	.138	.843	-.059
300	2340	.351	.130	.816	-.049
300	2341	-.448	.228	.349	-1.309
300	2342	-.462	.268	.464	-1.739
300	2343	-.391	.333	.608	-1.624
300	2344	-.475	.253	.401	-1.445
300	2345	.327	.145	.947	-.147
300	2346	-.369	.335	.733	-1.635
300	2347	-.515	.279	.428	-1.787
300	2348	.305	.137	.764	-.160
300	2349	-.451	.338	.615	-1.978
300	2350	.312	.137	.921	-.073
300	2351	.334	.152	1.035	-.098
300	2352	.385	.152	1.031	-.038
300	2353	.400	.149	.944	-.031
300	2354	.399	.158	1.011	-.037
300	2355	.339	.154	.929	-.044
300	2356	.301	.145	.908	-.091
300	2357	.295	.146	.841	-.061
300	2358	-.473	.303	.505	-1.547
300	2359	.298	.146	.909	-.118
300	2360	-.552	.263	.481	-1.490
300	2361	-.415	.345	.683	-1.552
300	2362	-.463	.280	.457	-1.509
300	2363	.263	.135	.959	-.143
300	2364	-.430	.323	.734	-1.490
300	2365	-.490	.278	.628	-1.427
300	2366	.235	.126	.898	-.121
300	2367	-.311	.303	.758	-1.759
300	2368	.183	.122	.630	-.195
300	2369	.215	.123	.687	-.093
300	2370	.230	.125	.698	-.089
300	2371	.256	.138	.779	-.053
300	2372	.263	.136	.808	-.036
300	2373	.258	.132	.860	-.040
300	2374	.207	.122	.625	-.061
300	2375	.219	.131	.709	-.189
300	2376	-.424	.303	.434	-1.453
300	2377	-.338	.307	.615	-1.813
300	2378	-.459	.258	.218	-1.541
300	2379	.168	.119	.663	-.369
300	2380	-.320	.284	.533	-1.738
300	2381	-.416	.271	.356	-1.591
300	2382	.119	.104	.536	-.218
300	2383	-.326	.267	.430	-1.405
300	2384	-.405	.255	.350	-1.441
300	2385	.079	.090	.508	-.236
300	2386	.060	.082	.498	-.192
300	2387	.068	.078	.451	-.184
300	2388	.053	.074	.412	-.192
300	2389	.089	.079	.504	-.143
300	2390	.107	.086	.565	-.098
300	2391	.123	.100	.695	-.143
300	2392	.109	.099	.682	-.130
300	2393	.080	.092	.574	-.193
300	2394	.089	.096	.578	-.207
300	2395	.080	.084	.547	-.160
300	2396	.078	.093	.552	-.265
300	2397	-.349	.253	.368	-1.505
300	2398	-.253	.256	.440	-1.423
300	2399	-.288	.226	.273	-1.506
300	2400	-.347	.210	.206	-1.458
300	2401	.029	.066	.349	-.195
300	2402	-.249	.187	.286	-1.450
300	2403	-.285	.175	.134	-1.152
300	2404	.018	.058	.299	-.190
300	2405	-.197	.142	.168	-.969
300	2406	.011	.049	.303	-.163
300	2407	.053	.051	.341	-.106
300	2408	.099	.061	.423	-.070
300	2409	.147	.078	.529	-.034
300	2410	.145	.081	.554	-.035
300	2411	.098	.065	.410	-.070
300	2412	.056	.053	.315	-.081
300	2413	.030	.054	.312	-.126
300	2414	-.119	.118	.219	-.698
300	2415	-.133	.107	.177	-.876
300	2416	-.076	.080	.286	-.648
300	2417	-.040	.061	.179	-.400
300	2418	-.018	.054	.272	-.209
300	3101	-.439	.134	-.067	-1.008
300	3102	-.367	.115	-.031	-.876
300	3103	-.368	.113	-.059	-.883
300	3104	-.372	.118	-.009	-.901
300	3105	-.326	.127	.241	-.805
300	3106	-.287	.123	.211	-.852
300	3107	-.212	.123	.254	-.951
300	3108	-.183	.119	.342	-.705
300	3109	-.171	.137	.403	-.768
300	3110	-.206	.113	.171	-.748
300	3111	-.353	.116	-.055	-1.008
300	3112	-.210	.110	.107	-.760
300	3113	-.441	.131	-.115	-.974
300	3114	-.194	.146	.410	-.803
300	3115	-.207	.112	.136	-.697
300	3116	-.439	.130	-.078	-1.050
300	3117	-.193	.148	.364	-.883
300	3118	-.348	.120	-.031	-.852
300	3119	-.349	.119	.029	-.824
300	3120	-.335	.127	.150	-.883
300	3121	-.291	.115	.111	-.746
300	3122	-.255	.114	.144	-.688
300	3123	-.212	.112	.191	-.885
300	3124	-.406	.128	-.096	-1.046
300	3125	-.366	.117	-.074	-.869
300	3126	-.372	.118	-.073	-.876
300	3127	-.376	.120	-.000	-.922
300	3128	-.385	.135	.081	-1.195
300	3129	-.345	.132	.136	-1.093
300	3130	-.331	.138	.204	-.821
300	3131	-.284	.131	.172	-.824
300	3132	-.256	.127	.201	-.758
300	3133	-.267	.136	.172	-.912
300	3134	-.224	.121	.162	-.770
300	3135	-.197	.116	.277	-.715
300	3136	-.199	.132	.342	-.977
300	3137	-.188	.111	.147	-.775
300	3138	-.210	.114	.086	-.892
300	3139	-.427	.131	-.048	-1.018
300	3140	-.359	.122	.094	-.975
300	3141	-.348	.144	.184	-1.045
300	3142	-.380	.168	.250	-1.220
300	3143	-.315	.151	.293	-.941
300	3144	-.240	.153	.334	-.856
300	3145	-.180	.145	.331	-.843
300	3146	-.420	.133	-.049	-1.168
300	3147	-.425	.136	-.024	-1.085
300	3148	-.341	.116	-.023	-.863
300	3149	-.334	.113	-.034	-.888
300	3150	-.230	.157	.380	-.883
300	3151	-.228	.118	.104	-.778
300	3152	-.223	.125	.180	-.725
300	3153	-.203	.119	.142	-.748

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	3154	-.445	.150	-.031	-1.324
300	3155	-.448	.155	.008	-1.400
300	3156	-.360	.131	.008	-.981
300	3157	-.334	.125	.056	-1.129
300	3158	-.228	.166	.408	-1.046
300	3159	-.232	.125	.176	-.816
300	3160	-.226	.132	.170	-.819
300	3161	-.406	.150	-.013	-1.190
300	3162	-.448	.156	.060	-1.303
300	3163	-.372	.135	-.045	-1.221
300	3164	-.365	.133	-.044	-1.077
300	3165	-.339	.133	.171	-.951
300	3166	-.341	.149	.198	-.981
300	3167	-.291	.136	.133	-.901
300	3168	-.227	.138	.336	-.988
300	3169	-.189	.139	.239	-.911
300	3170	-.216	.161	.250	-1.051
300	3171	-.230	.126	.139	-.893
300	3172	-.222	.128	.131	-.978
300	3173	-.344	.133	-.002	-.917
300	3174	-.221	.117	.143	-.820
300	3175	-.452	.157	-.080	-1.189
300	3176	-.447	.159	-.051	-1.186
300	3177	-.364	.132	.034	-1.001
300	3178	-.406	.140	.003	-1.083
300	3179	-.209	.176	.509	-.896
300	3180	-.234	.125	.180	-.882
300	3181	-.197	.117	.158	-.822
300	3182	-.473	.170	.076	-1.475
300	3183	-.465	.173	.320	-1.410
300	3184	-.378	.143	.014	-1.176
300	3185	-.365	.137	.016	-1.258
300	3186	-.191	.172	.351	-1.277
300	3187	-.229	.116	.083	-.906
300	3188	-.218	.118	.180	-1.147
300	3189	-.453	.173	.205	-1.405
300	3190	-.491	.184	.310	-1.511
300	3191	-.406	.157	.067	-1.472
300	3192	-.393	.159	.146	-1.660
300	3193	-.342	.157	.203	-1.022
300	3194	-.316	.175	.258	-1.059
300	3195	-.284	.153	.197	-1.048
300	3196	-.212	.152	.185	-.942
300	3197	-.153	.137	.366	-.709
300	3198	-.169	.151	.419	-.722
300	3199	-.219	.105	.037	-.664
300	3200	-.473	.177	-.051	-1.314
300	3201	-.437	.193	.313	-1.303
300	3202	-.402	.168	.050	-1.324
300	3203	-.397	.169	.045	-1.370
300	3204	-.096	.141	.472	-.655
300	3205	-.183	.097	.048	-.764
300	3206	-.210	.096	.037	-.714
300	3207	-.460	.195	.221	-1.325
300	3208	-.429	.202	.292	-1.374
300	3209	-.341	.159	.129	-1.082
300	3210	-.381	.168	.060	-1.264
300	3211	-.062	.120	.392	-.560
300	3212	-.191	.091	.008	-.689
300	3213	-.213	.094	.087	-.855
300	3214	-.327	.168	.095	-1.234
300	3215	-.196	.092	.100	-.753
300	3216	-.448	.206	.250	-1.428
300	3217	-.455	.213	.292	-1.716
300	3218	-.370	.186	.141	-1.686
300	3219	-.349	.190	.120	-1.597
300	3220	-.364	.216	.150	-1.805
300	3221	-.275	.193	.271	-1.289
300	3222	-.157	.159	.423	-1.119
300	3223	-.149	.110	.304	-.894
300	3224	-.091	.091	.299	-.617
300	3225	-.096	.075	.127	-.495
300	3226	-.072	.085	.215	-.528
300	3227	-.035	.100	.393	-.481
300	3228	-.037	.111	.422	-.554
300	3229	-.204	.089	.028	-.785
300	3230	-.380	.196	.405	-1.253
300	3231	-.332	.196	.372	-1.352
300	3232	-.304	.173	.085	-1.228
300	3233	-.308	.174	.099	-1.240
300	3234	-.011	.085	.435	-.410
300	3235	-.171	.083	.080	-.619
300	3236	-.182	.085	.096	-.617
300	3237	-.260	.147	.151	-.884
300	3238	-.213	.142	.227	-.848
300	3239	-.191	.128	.136	-.912
300	3240	-.192	.129	.171	-.984
300	3241	-.172	.089	.019	-.573
300	3242	-.166	.090	.062	-.612
300	3243	-.149	.110	.139	-.744
300	3244	-.150	.114	.173	-.729
300	3245	-.121	.100	.170	-.771
300	3246	-.096	.100	.210	-.746
300	3247	-.040	.085	.339	-.515
300	3248	-.007	.076	.313	-.338
300	3249	-.059	.061	.203	-.375
300	3250	-.045	.048	.183	-.253
300	3251	-.047	.047	.145	-.224
300	3252	-.037	.054	.220	-.268
300	3253	-.180	.105	.050	-.862
300	3254	-.060	.070	.238	-.556
300	3255	-.095	.062	.116	-.441
300	3256	-.067	.038	.055	-.210
300	3257	-.028	.061	.252	-.323
300	3258	.044	.058	.391	-.153
300	3259	-.062	.042	.061	-.261
300	3260	-.050	.059	.482	-.124
300	3261	-.042	.043	.137	-.207
300	3262	-.052	.039	.071	-.246
300	3263	-.010	.046	.191	-.156
300	3264	-.082	.042	.050	-.245
300	3265	-.123	.048	-.001	-.346
300	3266	.086	.066	.530	-.137
300	3267	.077	.064	.420	-.080
300	4301	-.191	.094	.054	-.681
300	4302	-.072	.062	.125	-.483
300	4303	-.158	.061	.054	-.404
300	4304	-.151	.059	.047	-.406
300	4305	-.149	.060	.039	-.387
300	4306	-.156	.061	.062	-.462
300	4307	-.165	.063	.057	-.465
300	4308	-.162	.065	.050	-.486
300	4309	-.165	.067	.027	-.468
300	4310	-.191	.091	.102	-.776
300	4311	-.187	.091	.071	-.801
300	4312	-.196	.104	.068	-.732
300	4313	-.156	.065	.055	-.535
300	4314	-.183	.092	.088	-.825
300	4315	-.197	.099	.092	-.656
300	4316	-.199	.109	.103	-.691
300	4317	-.151	.065	.050	-.510
300	4318	-.155	.062	.014	-.488
300	4319	-.153	.057	.012	-.399
300	4320	-.150	.058	.013	-.462
300	4321	-.146	.052	.008	-.368
300	4322	-.141	.048	-.019	-.404
300	4323	-.146	.048	-.023	-.488
300	4324	-.135	.045	-.016	-.334
300	4325	-.141	.045	-.024	-.368
300	4326	-.144	.048	-.007	-.359
300	4327	-.147	.047	-.004	-.352
300	4328	-.143	.048	.006	-.385
300	4329	-.148	.050	-.001	-.415
300	4330	-.147	.052	-.002	-.395
300	4331	-.149	.052	-.009	-.394
300	4332	-.147	.055	.001	-.418
300	4333	-.148	.055	-.003	-.410
300	4334	-.150	.055	.024	-.431
300	4335	-.150	.056	.019	-.441
300	4336	-.142	.055	.040	-.435

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	4337	-.153	.064	.055	-.519
300	4338	-.153	.062	.018	-.477
300	4339	-.151	.066	.024	-.584
300	4340	-.147	.063	.033	-.498
300	4341	-.180	.091	.078	-.691
300	4342	-.170	.083	.112	-.636
300	4343	-.195	.106	.080	-.904
300	4344	-.200	.116	.093	-.874
300	4345	-.149	.063	.020	-.398
300	4346	-.211	.112	.075	-.806
300	4347	-.217	.122	.117	-.787
300	4348	-.154	.068	.081	-.498
300	4349	-.212	.118	.104	-.824
300	4350	-.158	.065	.043	-.480
300	4351	-.145	.056	.036	-.368
300	4352	-.142	.050	.005	-.371
300	4353	-.132	.045	-.003	-.329
300	4354	-.137	.046	-.008	-.364
300	4355	-.139	.056	.045	-.447
300	4356	-.154	.063	.047	-.488
300	4357	-.154	.064	.017	-.532
300	4358	-.187	.111	.171	-.875
300	4359	-.145	.066	.041	-.469
300	4360	-.204	.108	.066	-.733
300	4361	-.205	.121	.091	-.867
300	4362	-.216	.122	.083	-.816
300	4363	-.139	.064	.067	-.395
300	4364	-.208	.103	.047	-.696
300	4365	-.192	.109	.069	-.787
300	4366	-.159	.065	.036	-.443
300	4367	-.202	.097	.025	-.736
300	4368	-.187	.072	.045	-.497
300	4369	-.159	.067	.054	-.452
300	4370	-.165	.060	.027	-.510
300	4371	-.126	.049	.043	-.345
300	4372	-.156	.050	-.021	-.415
300	4373	-.134	.055	.018	-.462
300	4374	-.149	.060	.027	-.491
300	4375	-.156	.070	.048	-.608
300	4376	-.188	.096	.059	-.941
300	4377	-.193	.092	.091	-.633
300	4378	-.182	.088	.046	-.591
300	4379	-.159	.066	.043	-.430
300	4380	-.180	.085	.066	-.835
300	4381	-.183	.081	.041	-.602
300	4382	-.165	.066	.026	-.511
300	4383	-.161	.078	.034	-.528
300	4384	-.176	.082	.010	-.542
300	4385	-.160	.068	.026	-.468
300	4386	-.159	.072	.054	-.534
300	4387	-.160	.072	.036	-.516
300	4388	-.169	.075	.015	-.512
300	4389	-.164	.066	.007	-.487
300	4390	-.159	.057	.017	-.389
300	4391	-.162	.060	-.016	-.404
300	4392	-.167	.067	.013	-.538
300	4393	-.172	.071	.019	-.566
300	4394	-.171	.071	.026	-.582
300	4395	-.152	.059	.019	-.441
300	4396	-.149	.068	.029	-.563
300	4397	-.171	.085	.043	-.670
300	4398	-.170	.083	.076	-.643
300	4399	-.158	.079	.053	-.674
300	4400	-.158	.081	.041	-.734
300	4401	-.144	.066	.038	-.547
300	4402	-.135	.075	.050	-.556
300	4403	-.124	.072	.029	-.559
300	4404	-.111	.063	.045	-.496
300	4405	-.107	.066	.041	-.617
300	4406	-.093	.055	.091	-.475
300	4407	-.099	.055	.039	-.581
300	4408	-.093	.047	.038	-.356
300	4409	-.093	.043	.036	-.302
300	4410	-.112	.054	.064	-.365
300	4411	-.171	.076	.008	-.549
300	4412	-.180	.079	-.004	-.610
300	4413	-.151	.073	.001	-.595
300	4414	-.194	.093	.000	-.855
300	4415	-.100	.059	.060	-.528
300	4416	-.191	.099	.029	-.773
300	4417	-.077	.044	.060	-.286
300	4418	-.120	.048	.028	-.346
300	4419	-.088	.044	.052	-.297
300	4420	-.083	.049	.062	-.364
300	4421	-.063	.045	.095	-.263
300	4422	-.086	.050	.064	-.341
300	4423	-.096	.040	.021	-.290
300	4424	-.122	.050	.016	-.355
300	9901	-.001	.045	.186	-.254
300	9902	-.052	.037	.060	-.251
300	9903	-.048	.034	.052	-.197
300	9904	-.114	.059	.062	-.578
300	9905	-.087	.037	.031	-.306
315	110	-.185	.144	.227	-.984
315	111	-.211	.075	-.010	-.575
315	112	-.320	.150	.893	-.366
315	130	-.094	.117	.333	-.993
315	140	-.161	.065	.058	-.546
315	141	-.163	.065	.062	-.485
315	142	-.199	.076	.032	-.548
315	143	-.196	.074	.034	-.618
315	144	-.167	.062	.058	-.453
315	145	-.168	.066	.019	-.466
315	220	.422	.202	1.244	-.360
315	221	.339	.189	1.027	-.493
315	230	-.394	.163	.209	-.967
315	231	-.576	.167	-.022	-1.311
315	310	-.109	.094	.288	-.585
315	320	.270	.161	.907	-.157
315	321	.065	.143	.582	-.376
315	322	.407	.171	1.097	-.062
315	323	-.078	.270	.755	-1.087
315	324	.410	.186	1.204	-.101
315	325	.119	.241	.796	-.743
315	330	-.199	.090	.202	-.592
315	331	-.250	.091	.019	-.792
315	332	-.227	.086	.029	-.774
315	410	-.249	.187	.328	-1.331
315	411	-.002	.170	.781	-.573
315	440	-.274	.133	.050	-.849
315	441	-.311	.153	.065	-.968
315	901	-.385	.113	-.055	-.870
315	902	-.381	.149	.118	-.895
315	903	-.268	.103	.051	-.808
315	904	-.196	.219	.620	-.951
315	905	-.046	.100	.289	-.384
315	906	.052	.103	.545	-.390
315	907	-.119	.114	.265	-.626
315	908	-.137	.143	.410	-.793
315	909	-.202	.111	.151	-.707
315	910	-.188	.121	.218	-.983
315	911	-.118	.095	.225	-.539
315	912	.004	.057	.177	-.229
315	1101	-.213	.082	.005	-.774
315	1102	.218	.148	.764	-.441
315	1103	.145	.107	.642	-.340
315	1104	.077	.090	.423	-.416
315	1105	-.192	.112	.308	-.682
315	1106	.084	.153	.667	-.698
315	1107	-.155	.237	.566	-.944
315	1108	-.395	.157	.490	-.990
315	1109	-.380	.142	.153	-1.068
315	1110	-.378	.318	.733	-1.506
315	1111	.152	.126	.693	-.325
315	1112	-.327	.348	.828	-1.487
315	1113	-.198	.078	.012	-.684
315	1114	-.320	.170	.156	-.990
315	1115	-.420	.337	.700	-1.493
315	1116	-.196	.077	.045	-.771
315	1117	-.270	.173	.617	-1.233

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
315	1118	.126	.124	.674	-.335
315	1119	.137	.130	.698	-.427
315	1120	-.034	.109	.647	-.792
315	1121	.121	.177	.753	-.900
315	1122	.082	.237	.837	-.896
315	1123	-.244	.218	.432	-1.196
315	1124	-.206	.077	.005	-.654
315	1125	.111	.102	.471	-.347
315	1126	.071	.082	.349	-.368
315	1127	.065	.085	.335	-.366
315	1128	.055	.088	.333	-.500
315	1129	.082	.100	.624	-.514
315	1130	-.102	.082	.163	-.505
315	1131	.068	.135	.427	-.632
315	1132	.048	.176	.497	-.738
315	1133	-.003	.216	.469	-.993
315	1134	-.061	.231	.665	-.851
315	1135	-.256	.161	.321	-.903
315	1136	-.259	.163	.247	-.942
315	1137	-.344	.352	1.228	-1.395
315	1138	-.442	.310	.606	-1.522
315	1139	-.190	.072	.016	-.583
315	1140	.051	.073	.373	-.359
315	1141	.040	.088	.593	-.454
315	1142	-.099	.077	.147	-.587
315	1143	.053	.129	.556	-.621
315	1144	-.081	.214	.791	-.890
315	1145	-.225	.165	.330	-1.140
315	1146	-.198	.072	.004	-.582
315	1147	-.189	.071	.009	-.607
315	1148	.120	.115	.579	-.508
315	1149	.093	.106	.577	-.492
315	1150	-.241	.176	.237	-1.132
315	1151	-.384	.324	.712	-1.433
315	1152	-.413	.296	.544	-1.499
315	1153	-.333	.352	.665	-1.476
315	1154	-.210	.078	.002	-.798
315	1155	-.201	.079	.011	-.768
315	1156	.104	.115	.603	-.544
315	1157	.074	.109	.523	-.402
315	1158	-.214	.168	.410	-.819
315	1159	-.320	.309	.826	-1.330
315	1160	-.351	.278	.616	-1.273
315	1161	-.215	.078	.064	-.634
315	1162	-.208	.077	.015	-.563
315	1163	.069	.117	.574	-.690
315	1164	.036	.094	.421	-.664
315	1165	.042	.094	.375	-.794
315	1166	-.093	.091	.226	-.856
315	1167	.025	.165	.484	-.949
315	1168	-.095	.229	.660	-.986
315	1169	-.198	.170	.607	-.913
315	1170	-.205	.170	.417	-.941
315	1171	-.281	.312	.770	-1.275
315	1172	-.331	.285	.695	-1.383
315	1173	.074	.116	.618	-.422
315	1174	-.307	.297	.767	-1.456
315	1175	-.218	.089	.049	-.792
315	1176	-.212	.089	.002	-.813
315	1177	.072	.118	.537	-.584
315	1178	.053	.110	.471	-.530
315	1179	-.207	.170	.310	-1.009
315	1180	-.286	.299	.649	-1.493
315	1181	-.341	.271	.591	-1.151
315	1182	-.230	.096	.071	-.761
315	1183	-.224	.095	.004	-.748
315	1184	.040	.114	.561	-.552
315	1185	.031	.115	.535	-.631
315	1186	-.208	.176	.504	-1.008
315	1187	-.278	.295	.723	-1.446
315	1188	-.319	.277	.668	-1.598
315	1189	-.233	.106	.026	-.812
315	1190	-.227	.107	.030	-.858
315	1191	.025	.105	.420	-.518
315	1192	.005	.087	.377	-.581
315	1193	.001	.086	.337	-.589
315	1194	-.080	.086	.284	-.663
315	1195	-.010	.136	.402	-.761
315	1196	-.087	.182	.544	-.960
315	1197	-.197	.160	.332	-.902
315	1198	-.204	.158	.345	-.917
315	1199	-.296	.252	.585	-1.353
315	1200	-.241	.121	.085	-.956
315	1201	-.234	.113	.037	-.845
315	1202	.018	.094	.467	-.391
315	1203	.014	.086	.433	-.371
315	1204	-.162	.143	.270	-1.120
315	1205	-.236	.232	.620	-1.226
315	1206	-.276	.220	.612	-1.239
315	1207	-.249	.126	.027	-.908
315	1208	-.246	.125	.013	-1.083
315	1209	.011	.098	.388	-.559
315	1210	.003	.090	.349	-.554
315	1211	-.162	.146	.317	-.955
315	1212	-.213	.216	.405	-1.251
315	1213	-.238	.202	.462	-1.397
315	1214	.000	.088	.389	-.375
315	1215	-.180	.186	.396	-1.300
315	1216	-.246	.122	.026	-.823
315	1217	-.253	.127	.026	-.955
315	1218	-.016	.084	.355	-.400
315	1219	-.021	.070	.273	-.420
315	1220	-.040	.063	.196	-.340
315	1221	-.027	.070	.281	-.637
315	1222	-.060	.074	.244	-.648
315	1223	-.024	.099	.311	-.769
315	1224	-.077	.131	.373	-.890
315	1225	-.121	.141	.320	-1.132
315	1226	-.125	.124	.289	-.945
315	1227	-.131	.122	.282	-.834
315	1228	-.135	.122	.261	-.844
315	1229	-.188	.166	.418	-.946
315	1230	-.254	.133	.105	-1.122
315	1231	-.248	.132	.018	-1.147
315	1232	-.025	.077	.323	-.421
315	1233	-.026	.072	.261	-.556
315	1234	-.089	.103	.263	-.884
315	1235	-.115	.132	.265	-.980
315	1236	-.132	.130	.297	-.956
315	1237	-.265	.127	.006	-.850
315	1238	-.261	.127	.006	-.841
315	1239	-.030	.074	.248	-.449
315	1240	-.031	.067	.265	-.404
315	1241	-.090	.118	.229	-.840
315	1242	-.094	.113	.223	-.792
315	1243	-.243	.115	.026	-.793
315	1244	-.248	.118	-.019	-.971
315	1245	-.028	.053	.256	-.303
315	1246	-.012	.051	.298	-.299
315	1247	.009	.050	.180	-.311
315	1248	.016	.056	.270	-.242
315	1249	.002	.068	.229	-.315
315	1250	-.021	.082	.237	-.490
315	1251	-.032	.086	.171	-.612
315	1252	-.044	.090	.172	-.988
315	1253	-.064	.098	.190	-1.009
315	1254	-.103	.055	.062	-.528
315	1255	-.014	.071	.237	-.505
315	1256	-.009	.077	.251	-.672
315	1257	-.177	.078	-.001	-.565
315	1258	-.098	.062	.093	-.395
315	1259	.036	.066	.290	-.483
315	1260	-.016	.064	.505	-.256
315	1261	.083	.071	.546	-.099
315	1262	.087	.066	.388	-.115
315	1263	.094	.071	.418	-.343
315	1264	.103	.067	.457	-.127
315	1265	.071	.074	.469	-.214
315	1266	-.003	.050	.215	-.259
315	1267	-.090	.049	.060	-.343

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
315	1901	-.065	.105	.539	-.407
315	1902	-.147	.069	.106	-.464
315	1903	-.212	.081	.151	-.617
315	1904	-.281	.094	-.043	-.924
315	1905	-.280	.071	-.086	-.690
315	1906	-.319	.098	-.035	-.694
315	1907	-.362	.116	-.050	-.823
315	1908	-.399	.133	.053	-1.144
315	1909	-.252	.087	.036	-.608
315	1910	-.256	.096	.034	-.654
315	1911	-.276	.101	.047	-.701
315	1912	-.267	.050	-.148	-.416
315	2301	.400	.198	1.112	-.583
315	2302	.490	.172	1.069	-.184
315	2303	.392	.166	1.055	-.331
315	2304	.336	.157	.937	-.186
315	2305	.309	.158	.942	-.237
315	2306	.212	.165	.924	-.356
315	2307	.233	.142	.864	-.142
315	2308	.278	.146	.914	-.133
315	2309	.374	.161	.992	-.162
315	2310	-.099	.316	1.123	-1.406
315	2311	.305	.256	1.168	-.969
315	2312	.224	.304	1.336	-1.138
315	2313	.474	.201	1.169	-.129
315	2314	-.387	.152	.204	-1.167
315	2315	.197	.322	1.057	-1.293
315	2316	.106	.345	1.079	-1.344
315	2317	.455	.197	1.092	-.101
315	2318	.394	.175	1.050	-.056
315	2319	.413	.175	1.033	-.020
315	2320	.410	.173	1.011	-.015
315	2321	.406	.172	1.055	-.053
315	2322	.468	.167	1.032	-.023
315	2323	.456	.160	1.057	-.011
315	2324	.463	.159	1.081	-.019
315	2325	.468	.166	1.058	-.026
315	2326	.443	.168	1.018	-.049
315	2327	.453	.168	1.071	-.024
315	2328	.463	.172	1.092	-.006
315	2329	.371	.158	.910	-.171
315	2330	.376	.175	1.170	-.084
315	2331	.424	.178	1.136	-.013
315	2332	.401	.161	1.076	-.047
315	2333	.415	.172	1.080	-.033
315	2334	.367	.149	.947	-.086
315	2335	.380	.149	.985	-.074
315	2336	.432	.167	1.109	-.075
315	2337	.316	.137	.881	-.110
315	2338	.317	.146	.897	-.098
315	2339	.348	.163	1.033	-.167
315	2340	.341	.156	1.030	-.135
315	2341	-.412	.160	.076	-1.218
315	2342	-.395	.178	.343	-1.253
315	2343	.182	.316	1.046	-1.232
315	2344	.096	.328	1.055	-1.208
315	2345	.404	.186	1.178	-.040
315	2346	.170	.307	1.063	-1.297
315	2347	.081	.324	1.089	-1.113
315	2348	.405	.181	1.097	-.073
315	2349	.116	.311	.980	-1.254
315	2350	.361	.168	1.045	-.289
315	2351	.391	.174	1.177	-.082
315	2352	.390	.169	1.152	.005
315	2353	.367	.148	.934	-.127
315	2354	.310	.158	.971	-.166
315	2355	.300	.136	.849	-.114
315	2356	.245	.122	.731	-.171
315	2357	.259	.143	1.030	-.176
315	2358	-.456	.193	.300	-1.447
315	2359	.314	.160	1.006	-.180
315	2360	-.418	.168	.233	-1.356
315	2361	-.058	.296	.903	-1.009
315	2362	-.009	.308	.889	-1.403
315	2363	.304	.149	1.100	-.208
315	2364	.001	.291	.893	-1.478
315	2365	-.064	.286	.879	-1.395
315	2366	.252	.136	.910	-.135
315	2367	.015	.250	.704	-1.102
315	2368	.214	.127	.740	-.124
315	2369	.242	.128	.789	-.070
315	2370	.240	.130	.894	-.062
315	2371	.257	.138	.821	-.063
315	2372	.225	.139	.789	-.128
315	2373	.219	.125	.752	-.103
315	2374	.160	.119	.715	-.194
315	2375	.163	.134	.877	-.205
315	2376	-.465	.221	.512	-1.609
315	2377	-.034	.239	.635	-1.240
315	2378	-.130	.235	.602	-1.347
315	2379	.158	.113	.743	-.155
315	2380	-.064	.212	.508	-1.296
315	2381	-.165	.217	.435	-1.323
315	2382	.122	.097	.629	-.155
315	2383	-.100	.185	.348	-1.420
315	2384	-.136	.190	.360	-1.347
315	2385	.080	.084	.496	-.230
315	2386	.084	.081	.469	-.203
315	2387	.095	.080	.502	-.216
315	2388	.088	.074	.453	-.185
315	2389	.113	.086	.511	-.179
315	2390	.139	.097	.589	-.148
315	2391	.112	.100	.551	-.143
315	2392	.109	.098	.672	-.133
315	2393	.071	.094	.655	-.189
315	2394	.090	.098	.724	-.162
315	2395	.078	.093	.443	-.215
315	2396	.066	.093	.443	-.254
315	2397	-.424	.218	.194	-1.603
315	2398	-.345	.242	.372	-1.712
315	2399	-.095	.159	.257	-1.214
315	2400	-.128	.160	.209	-1.160
315	2401	.048	.060	.428	-.230
315	2402	-.078	.134	.258	-1.018
315	2403	-.119	.143	.198	-1.300
315	2404	.050	.056	.290	-.145
315	2405	-.078	.117	.177	-.937
315	2406	.059	.051	.309	-.150
315	2407	.087	.060	.510	-.093
315	2408	.127	.072	.601	-.036
315	2409	.161	.089	.684	-.023
315	2410	.166	.091	.774	-.048
315	2411	.123	.082	.463	-.079
315	2412	.080	.068	.384	-.088
315	2413	.049	.065	.406	-.140
315	2414	-.165	.141	.249	-.876
315	2415	-.050	.086	.191	-.599
315	2416	-.100	.098	.353	-.669
315	2417	-.010	.055	.204	-.333
315	2418	-.015	.054	.213	-.267
315	3101	-.262	.095	-.005	-1.052
315	3102	-.222	.087	.018	-.988
315	3103	-.233	.086	.006	-.842
315	3104	-.233	.088	.052	-.771
315	3105	-.251	.096	.063	-.704
315	3106	-.231	.099	.096	-.733
315	3107	-.227	.103	.129	-.739
315	3108	-.218	.096	.237	-.704
315	3109	-.252	.120	.147	-1.138
315	3110	-.250	.122	.027	-.818
315	3111	-.231	.086	.026	-.735
315	3112	-.244	.119	.035	-.835
315	3113	-.267	.102	.019	-.969
315	3114	-.247	.110	.287	-1.021
315	3115	-.260	.117	.092	-.974
315	3116	-.259	.103	.047	-.916
315	3117	-.248	.109	.137	-.812
315	3118	-.215	.085	.025	-.672
315	3119	-.226	.083	.011	-.715
315	3120	-.228	.090	.087	-.783

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
315	3121	-.218	.078	.054	-.559
315	3122	-.208	.078	.122	-.596
315	3123	-.229	.091	.087	-.589
315	3124	-.245	.091	.016	-.704
315	3125	-.230	.082	.027	-.616
315	3126	-.230	.083	.023	-.653
315	3127	-.243	.085	.016	-.711
315	3128	-.241	.093	.035	-.857
315	3129	-.236	.093	.112	-.768
315	3130	-.245	.105	.105	-.858
315	3131	-.228	.091	.075	-.628
315	3132	-.222	.089	.068	-.638
315	3133	-.241	.098	.117	-.706
315	3134	-.227	.094	.164	-.707
315	3135	-.243	.103	.089	-1.084
315	3136	-.248	.112	.125	-.980
315	3137	-.246	.114	.075	-.710
315	3138	-.275	.128	.044	-.875
315	3139	-.274	.110	.068	-.767
315	3140	-.240	.098	.018	-.770
315	3141	-.249	.110	.159	-.879
315	3142	-.264	.122	.160	-.917
315	3143	-.238	.106	.179	-.741
315	3144	-.236	.108	.190	-.789
315	3145	-.270	.124	.150	-.920
315	3146	-.284	.108	.051	-.942
315	3147	-.296	.116	.059	-.942
315	3148	-.249	.098	.041	-.895
315	3149	-.235	.097	.032	-.768
315	3150	-.259	.119	.130	-1.010
315	3151	-.257	.120	-.001	-.854
315	3152	-.264	.126	.006	-.888
315	3153	-.264	.118	.075	-.828
315	3154	-.281	.103	.123	-.756
315	3155	-.293	.116	.183	-.878
315	3156	-.246	.097	.117	-.727
315	3157	-.255	.101	.024	-.780
315	3158	-.271	.125	.195	-1.024
315	3159	-.265	.123	.018	-1.005
315	3160	-.271	.129	.025	-.998
315	3161	-.302	.110	.032	-.872
315	3162	-.311	.118	.004	-.868
315	3163	-.274	.105	.032	-.897
315	3164	-.276	.105	.046	-.939
315	3165	-.275	.109	.068	-1.084
315	3166	-.288	.123	.086	-1.320
315	3167	-.266	.104	.123	-.921
315	3168	-.257	.104	.117	-.741
315	3169	-.270	.109	.311	-.886
315	3170	-.282	.120	.272	-.940
315	3171	-.277	.118	.051	-.933
315	3172	-.286	.122	.058	-.928
315	3173	-.270	.098	.051	-.720
315	3174	-.276	.119	.058	-.994
315	3175	-.312	.106	-.016	-.894
315	3176	-.321	.114	.055	-.949
315	3177	-.292	.101	-.019	-.780
315	3178	-.298	.106	.009	-.781
315	3179	-.284	.123	.097	-.813
315	3180	-.271	.118	.086	-.831
315	3181	-.293	.127	.077	-.869
315	3182	-.350	.113	-.012	-.963
315	3183	-.357	.120	.006	-1.034
315	3184	-.313	.109	.027	-.928
315	3185	-.302	.117	.022	-1.159
315	3186	-.281	.132	.235	-1.038
315	3187	-.272	.153	-.009	-1.110
315	3188	-.277	.129	.006	-1.199
315	3189	-.357	.125	-.055	-1.048
315	3190	-.364	.132	-.056	-1.124
315	3191	-.324	.119	-.009	-.935
315	3192	-.324	.119	-.004	-.984
315	3193	-.329	.122	-.002	-.947
315	3194	-.323	.125	.142	-.940
315	3195	-.304	.121	.085	-.947
315	3196	-.285	.119	.112	-.982
315	3197	-.279	.118	.094	-.848
315	3198	-.282	.125	.125	-1.040
315	3199	-.280	.122	.063	-.892
315	3200	-.383	.131	-.060	-1.218
315	3201	-.379	.138	-.038	-1.262
315	3202	-.339	.127	-.028	-1.120
315	3203	-.340	.128	-.030	-1.086
315	3204	-.246	.123	.166	-.848
315	3205	-.249	.105	.027	-.701
315	3206	-.248	.106	.053	-.751
315	3207	-.371	.147	-.023	-1.204
315	3208	-.374	.151	-.027	-1.237
315	3209	-.354	.139	-.041	-1.344
315	3210	-.358	.142	-.052	-1.336
315	3211	-.196	.114	.306	-.731
315	3212	-.261	.107	-.020	-.892
315	3213	-.266	.107	.044	-.872
315	3214	-.353	.167	.007	-1.468
315	3215	-.262	.107	.042	-.755
315	3216	-.421	.180	-.009	-1.836
315	3217	-.404	.174	-.016	-1.483
315	3218	-.344	.164	.032	-1.254
315	3219	-.342	.163	.048	-1.279
315	3220	-.356	.172	.023	-1.331
315	3221	-.341	.173	.175	-1.301
315	3222	-.276	.158	.328	-1.014
315	3223	-.252	.135	.170	-1.008
315	3224	-.180	.114	.166	-.679
315	3225	-.170	.109	.126	-.627
315	3226	-.150	.116	.311	-.645
315	3227	-.120	.125	.374	-.615
315	3228	-.123	.131	.388	-.721
315	3229	-.245	.109	.033	-.786
315	3230	-.407	.193	.039	-1.389
315	3231	-.392	.194	.051	-1.397
315	3232	-.358	.184	.056	-1.327
315	3233	-.339	.178	.040	-2.094
315	3234	-.046	.108	.435	-.428
315	3235	-.253	.123	.055	-.972
315	3236	-.259	.127	.042	-1.055
315	3237	-.340	.179	.126	-1.543
315	3238	-.289	.171	.158	-1.241
315	3239	-.273	.166	.105	-1.211
315	3240	-.272	.169	.132	-1.804
315	3241	-.250	.151	.084	-.989
315	3242	-.248	.155	.069	-1.376
315	3243	-.176	.130	.173	-.859
315	3244	-.172	.133	.199	-.804
315	3245	-.142	.125	.187	-1.012
315	3246	-.112	.123	.302	-1.083
315	3247	-.059	.105	.481	-.556
315	3248	.024	.104	.586	-.437
315	3249	.031	.103	.802	-.336
315	3250	-.044	.063	.401	-.309
315	3251	-.062	.064	.360	-.362
315	3252	.009	.073	.489	-.248
315	3253	-.241	.198	.170	-1.273
315	3254	-.050	.084	.245	-.506
315	3255	-.078	.083	.174	-.801
315	3256	-.074	.052	.093	-.285
315	3257	-.005	.070	.347	-.317
315	3258	.069	.072	.444	-.204
315	3259	-.034	.051	.152	-.265
315	3260	.085	.074	.556	-.112
315	3261	-.029	.057	.217	-.324
315	3262	-.031	.045	.119	-.238
315	3263	.024	.055	.288	-.177
315	3264	-.083	.061	.125	-.421
315	3265	-.158	.067	.026	-.512
315	3266	.130	.077	.542	-.066
315	3267	.120	.078	.615	-.096
315	4301	-.217	.113	.043	-.750
315	4302	-.062	.066	.142	-.373
315	4303	-.165	.074	.048	-.446

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
315	4304	-.151	.068	.034	-.459
315	4305	-.164	.068	.007	-.430
315	4306	-.154	.064	.048	-.532
315	4307	-.164	.064	.041	-.504
315	4308	-.162	.066	.029	-.476
315	4309	-.167	.066	.024	-.451
315	4310	-.186	.073	-.002	-.594
315	4311	-.208	.102	.057	-.971
315	4312	-.238	.119	.025	-.853
315	4313	-.164	.063	.050	-.421
315	4314	-.185	.073	.055	-.712
315	4315	-.229	.112	.023	-.922
315	4316	-.242	.124	.034	-.991
315	4317	-.170	.065	.026	-.500
315	4318	-.166	.065	.029	-.712
315	4319	-.159	.062	.032	-.720
315	4320	-.156	.063	.029	-.748
315	4321	-.156	.060	.024	-.627
315	4322	-.150	.056	.033	-.411
315	4323	-.151	.057	.027	-.414
315	4324	-.142	.055	.036	-.399
315	4325	-.148	.056	.033	-.390
315	4326	-.157	.058	.010	-.404
315	4327	-.155	.058	.011	-.393
315	4328	-.150	.058	.014	-.394
315	4329	-.162	.062	.007	-.439
315	4330	-.159	.058	.012	-.458
315	4331	-.156	.057	.023	-.412
315	4332	-.152	.059	.014	-.435
315	4333	-.158	.058	.012	-.430
315	4334	-.152	.059	.033	-.437
315	4335	-.149	.059	.037	-.425
315	4336	-.140	.059	.046	-.399
315	4337	-.152	.062	.031	-.420
315	4338	-.154	.059	.036	-.395
315	4339	-.149	.060	.045	-.387
315	4340	-.146	.064	.055	-.491
315	4341	-.172	.075	.061	-.597
315	4342	-.173	.067	.055	-.549
315	4343	-.224	.109	.041	-.855
315	4344	-.236	.120	.041	-.849
315	4345	-.171	.063	.019	-.467
315	4346	-.223	.104	.007	-.760
315	4347	-.253	.126	.013	-.929
315	4348	-.167	.067	.065	-.430
315	4349	-.250	.127	.033	-1.072
315	4350	-.181	.069	.037	-.480
315	4351	-.169	.061	.031	-.406
315	4352	-.161	.056	.025	-.358
315	4353	-.152	.055	.017	-.351
315	4354	-.163	.056	.012	-.402
315	4355	-.164	.061	.002	-.392
315	4356	-.158	.063	.002	-.412
315	4357	-.153	.059	.040	-.485
315	4358	-.172	.074	.033	-.581
315	4359	-.175	.063	.017	-.406
315	4360	-.174	.073	.030	-.579
315	4361	-.239	.114	.022	-.818
315	4362	-.266	.118	.007	-.782
315	4363	-.179	.068	0.000	-.427
315	4364	-.252	.123	.088	-.890
315	4365	-.257	.129	.077	-.875
315	4366	-.189	.072	.010	-.500
315	4367	-.269	.109	.029	-.721
315	4368	-.201	.076	.002	-.532
315	4369	-.189	.071	-.005	-.507
315	4370	-.188	.067	-.011	-.476
315	4371	-.170	.061	.005	-.444
315	4372	-.171	.064	.027	-.458
315	4373	-.164	.067	.036	-.507
315	4374	-.171	.072	.024	-.506
315	4375	-.180	.080	.089	-.627
315	4376	-.179	.091	.044	-.755
315	4377	-.245	.108	.041	-.791
315	4378	-.253	.112	.031	-.855
315	4379	-.215	.084	.054	-.740
315	4380	-.230	.102	.033	-.819
315	4381	-.246	.106	.026	-.966
315	4382	-.219	.089	.197	-.852
315	4383	-.215	.093	.058	-.738
315	4384	-.225	.093	.038	-.750
315	4385	-.201	.082	.045	-.644
315	4386	-.212	.102	.032	-.844
315	4387	-.200	.092	.078	-.595
315	4388	-.204	.096	.090	-.651
315	4389	-.190	.083	.081	-.504
315	4390	-.187	.079	.069	-.569
315	4391	-.200	.090	.066	-.638
315	4392	-.195	.092	.019	-.745
315	4393	-.195	.100	.011	-.954
315	4394	-.195	.097	.026	-.747
315	4395	-.167	.078	.017	-.832
315	4396	-.169	.091	.059	-.721
315	4397	-.189	.107	.122	-.782
315	4398	-.186	.105	.081	-1.006
315	4399	-.210	.113	.078	-.777
315	4400	-.214	.117	.047	-.724
315	4401	-.193	.100	.062	-.666
315	4402	-.199	.127	.093	-.968
315	4403	-.222	.150	.088	-1.223
315	4404	-.200	.131	.191	-1.037
315	4405	-.186	.142	.091	-1.046
315	4406	-.093	.069	.142	-.524
315	4407	-.153	.115	.151	-.726
315	4408	-.135	.085	.106	-.573
315	4409	-.156	.074	.117	-.545
315	4410	-.208	.097	.166	-.968
315	4411	-.197	.090	.017	-.835
315	4412	-.188	.087	.038	-.823
315	4413	-.166	.085	-.015	-.960
315	4414	-.193	.100	.050	-1.006
315	4415	-.112	.103	.146	-.694
315	4416	-.233	.117	.009	-1.110
315	4417	-.063	.068	.161	-.545
315	4418	-.160	.072	.007	-.564
315	4419	-.075	.059	.159	-.289
315	4420	-.091	.063	.126	-.348
315	4421	-.070	.057	.143	-.335
315	4422	-.106	.069	.176	-.435
315	4423	-.105	.056	.033	-.424
315	4424	-.129	.065	.023	-.492
315	9901	.031	.050	.338	-.112
315	9902	-.029	.044	.121	-.208
315	9903	-.031	.042	.112	-.195
315	9904	-.120	.070	.067	-.472
315	9905	-.087	.047	.061	-.289
330	110	.024	.119	.418	-.483
330	111	-.196	.076	.152	-.643
330	112	.363	.153	.930	-.119
330	130	-.101	.082	.121	-.590
330	140	-.148	.064	.039	-.459
330	141	-.151	.064	.039	-.477
330	142	-.166	.057	.020	-.384
330	143	-.173	.063	.048	-.464
330	144	-.162	.062	.012	-.488
330	145	-.174	.067	.020	-.600
330	220	.442	.174	1.137	-.070
330	221	.089	.237	.895	-.714
330	230	-.357	.099	-.058	-.735
330	231	-.409	.133	-.057	-.860
330	310	-.006	.119	.484	-.698
330	320	.246	.142	.884	-.221
330	321	-.103	.137	.397	-.543
330	322	.341	.160	.907	-.137
330	323	-.273	.161	.579	-.837
330	324	.395	.171	1.010	-.135
330	325	-.222	.199	.557	-.889
330	330	-.190	.075	-.005	-.555
330	331	-.238	.089	.034	-.670
330	332	-.217	.082	.010	-.542

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	410	-.248	.169	.390	-1.035
330	411	.206	.152	.847	-.320
330	440	-.252	.113	.026	-.931
330	441	-.290	.127	-.041	-.994
330	901	-.381	.105	-.047	-.765
330	902	-.385	.123	.073	-.880
330	903	-.274	.096	.052	-.654
330	904	-.248	.168	.370	-.928
330	905	-.144	.096	.155	-.554
330	906	.024	.109	.540	-.395
330	907	-.010	.078	.242	-.354
330	908	.093	.115	.598	-.258
330	909	-.256	.106	.296	-.681
330	910	-.164	.125	.220	-.628
330	911	-.130	.097	.225	-.515
330	912	-.072	.064	.178	-.301
330	1101	-.203	.062	-.024	-.529
330	1102	.267	.136	1.039	-.221
330	1103	.180	.103	.816	-.235
330	1104	.113	.088	.616	-.223
330	1105	-.146	.093	.203	-.536
330	1106	.153	.098	.575	-.164
330	1107	.199	.153	.745	-.400
330	1108	-.134	.216	.708	-.723
330	1109	-.163	.151	.582	-.614
330	1110	.173	.243	.912	-.799
330	1111	.203	.120	.713	-.237
330	1112	.212	.249	.945	-.815
330	1113	-.195	.067	-.015	-.508
330	1114	.002	.159	.543	-.605
330	1115	.188	.267	.965	-.970
330	1116	-.200	.066	-.033	-.502
330	1117	.019	.153	.589	-.473
330	1118	.192	.119	.893	-.160
330	1119	.225	.127	.799	-.132
330	1120	.054	.101	.619	-.244
330	1121	.253	.128	.760	-.097
330	1122	.279	.142	.964	-.301
330	1123	.119	.188	.771	-.658
330	1124	-.198	.061	.007	-.530
330	1125	.176	.099	.605	-.146
330	1126	.137	.081	.459	-.126
330	1127	.147	.083	.486	-.085
330	1128	.137	.084	.536	-.113
330	1129	.185	.107	.690	-.130
330	1130	-.024	.081	.300	-.317
330	1131	.197	.097	.582	-.083
330	1132	.210	.105	.649	-.104
330	1133	.196	.105	.544	-.487
330	1134	.243	.157	.757	-.446
330	1135	.019	.165	.750	-.588
330	1136	.021	.155	.711	-.626
330	1137	.280	.279	.944	-.888
330	1138	-.126	.270	.952	-.769
330	1139	-.184	.060	.006	-.515
330	1140	.141	.085	.424	-.103
330	1141	.196	.115	.672	-.119
330	1142	.045	.086	.417	-.253
330	1143	.231	.110	.656	-.186
330	1144	.286	.158	.879	-.285
330	1145	.108	.166	.728	-.589
330	1146	-.197	.062	.020	-.565
330	1147	-.189	.061	.036	-.540
330	1148	.196	.114	.686	-.325
330	1149	.192	.113	.778	-.162
330	1150	.137	.168	.776	-.494
330	1151	.293	.273	.997	-.833
330	1152	.256	.276	.989	-.800
330	1153	.198	.284	1.170	-.946
330	1154	-.202	.069	.025	-.654
330	1155	-.193	.069	.032	-.594
330	1156	.176	.117	.703	-.143
330	1157	.167	.107	.679	-.156
330	1158	.121	.149	.713	-.378
330	1159	.255	.251	1.061	-.750
330	1160	.220	.250	1.045	-.720
330	1161	-.204	.075	-.003	-.703
330	1162	-.194	.073	-.000	-.699
330	1163	.151	.112	.645	-.220
330	1164	.118	.089	.485	-.160
330	1165	.136	.093	.576	-.141
330	1166	.010	.083	.379	-.320
330	1167	.196	.109	.741	-.243
330	1168	.238	.162	.947	-.579
330	1169	.113	.153	.896	-.350
330	1170	.107	.146	.796	-.486
330	1171	.231	.231	.961	-.692
330	1172	.194	.232	.940	-.670
330	1173	.149	.112	.662	-.169
330	1174	-.205	.251	.954	-.853
330	1175	-.231	.077	-.019	-.720
330	1176	-.222	.077	-.010	-.737
330	1177	.158	.112	.621	-.214
330	1178	.142	.106	.535	-.206
330	1179	.112	.142	.636	-.365
330	1180	.231	.231	.890	-.766
330	1181	.165	.224	.950	-.750
330	1182	-.238	.096	.004	-.944
330	1183	-.232	.096	.026	-.950
330	1184	.103	.100	.607	-.233
330	1185	.097	.095	.752	-.193
330	1186	.063	.127	.684	-.359
330	1187	.147	.204	.848	-.549
330	1188	.117	.206	.865	-.579
330	1189	-.268	.103	.042	-.782
330	1190	-.258	.103	.020	-.745
330	1191	.086	.098	.596	-.177
330	1192	.066	.077	.445	-.176
330	1193	.073	.077	.436	-.169
330	1194	-.006	.075	.433	-.316
330	1195	.122	.090	.592	-.290
330	1196	.141	.131	.680	-.355
330	1197	.070	.121	.608	-.449
330	1198	.061	.116	.556	-.457
330	1199	.114	.186	.831	-.846
330	1200	-.281	.116	.063	-.909
330	1201	-.281	.119	.016	-1.000
330	1202	.055	.083	.394	-.191
330	1203	.058	.076	.399	-.184
330	1204	.051	.100	.518	-.428
330	1205	.114	.163	.716	-.836
330	1206	.089	.169	.705	-.872
330	1207	-.311	.131	.009	-.942
330	1208	-.306	.129	.010	-.993
330	1209	.035	.083	.462	-.277
330	1210	.033	.076	.481	-.253
330	1211	.047	.091	.453	-.487
330	1212	.082	.122	.558	-.516
330	1213	.019	.149	.636	-.828
330	1214	.023	.078	.458	-.242
330	1215	.034	.123	.618	-.786
330	1216	-.304	.141	.080	-1.090
330	1217	-.283	.121	.021	-.941
330	1218	.007	.069	.354	-.244
330	1219	-.005	.055	.302	-.184
330	1220	-.010	.051	.255	-.192
330	1221	-.013	.060	.325	-.221
330	1222	-.014	.061	.280	-.429
330	1223	.052	.070	.406	-.258
330	1224	.049	.089	.516	-.343
330	1225	.034	.091	.435	-.490
330	1226	.025	.088	.421	-.388
330	1227	.018	.086	.426	-.379
330	1228	.013	.085	.382	-.384
330	1229	.007	.118	.395	-.607
330	1230	-.330	.139	-.002	-1.198
330	1231	-.322	.139	-.004	-1.232
330	1232	-.018	.068	.292	-.280
330	1233	-.013	.061	.303	-.258
330	1234	.013	.067	.296	-.508

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	1235	.024	.081	.384	-.497
330	1236	.015	.084	.372	-.521
330	1237	-.359	.167	.243	-1.215
330	1238	-.355	.164	-.021	-1.176
330	1239	-.023	.064	.251	-.263
330	1240	-.017	.059	.263	-.236
330	1241	.020	.078	.467	-.407
330	1242	.018	.077	.433	-.439
330	1243	-.339	.170	.038	-1.267
330	1244	-.348	.173	.007	-1.336
330	1245	-.021	.050	.263	-.278
330	1246	.004	.049	.308	-.184
330	1247	.018	.046	.250	-.132
330	1248	.044	.053	.382	-.192
330	1249	.049	.052	.303	-.111
330	1250	.039	.052	.284	-.239
330	1251	.034	.054	.349	-.322
330	1252	.024	.054	.324	-.350
330	1253	.016	.055	.223	-.318
330	1254	-.104	.060	.047	-.458
330	1255	.025	.045	.311	-.202
330	1256	.025	.043	.182	-.209
330	1257	-.160	.080	.031	-.617
330	1258	-.113	.064	.054	-.487
330	1259	.048	.046	.330	-.137
330	1260	-.014	.043	.263	-.185
330	1261	.054	.050	.270	-.089
330	1262	.063	.051	.356	-.102
330	1263	.063	.050	.386	-.092
330	1264	.056	.048	.362	-.109
330	1265	.020	.064	.296	-.392
330	1266	-.065	.062	.135	-.390
330	1267	-.096	.054	.031	-.399
330	1901	.086	.117	.611	-.319
330	1902	-.051	.074	.238	-.411
330	1903	-.148	.081	.255	-.431
330	1904	-.233	.103	.051	-1.068
330	1905	-.238	.072	.020	-.645
330	1906	-.304	.094	-.050	-.810
330	1907	-.352	.112	-.032	-.968
330	1908	-.424	.116	-.034	-.846
330	1909	-.220	.089	.083	-.554
330	1910	-.166	.092	.117	-.620
330	1911	-.223	.095	.141	-.648
330	1912	-.233	.045	-.117	-.380
330	2301	.467	.188	1.047	-.178
330	2302	.360	.184	.957	-.278
330	2303	.375	.169	1.005	-.226
330	2304	.290	.152	1.007	-.182
330	2305	.252	.142	.932	-.169
330	2306	.026	.162	.637	-.643
330	2307	.165	.124	.772	-.175
330	2308	.221	.128	.863	-.123
330	2309	-.356	.161	1.084	-.116
330	2310	-.245	.129	.559	-.748
330	2311	.482	.205	1.379	-.196
330	2312	.460	.195	1.172	-.462
330	2313	.368	.176	1.015	-.216
330	2314	-.266	.089	.008	-.793
330	2315	.482	.193	1.194	-.623
330	2316	.478	.198	1.225	-.693
330	2317	.424	.192	1.144	-.150
330	2318	.441	.188	1.119	-.235
330	2319	.470	.181	1.096	-.219
330	2320	.483	.177	1.080	-.210
330	2321	.412	.157	1.040	-.130
330	2322	.408	.154	.943	-.009
330	2323	.381	.147	.913	-.032
330	2324	.379	.144	.915	-.020
330	2325	.423	.162	1.008	-.038
330	2326	.362	.153	1.150	.012
330	2327	.371	.151	1.238	.023
330	2328	.416	.168	1.223	.004
330	2329	.217	.136	.937	-.263
330	2330	.176	.128	.689	-.218
330	2331	.285	.138	.913	-.130
330	2332	.319	.129	.950	-.083
330	2333	.344	.141	1.019	-.084
330	2334	.264	.124	.701	-.182
330	2335	.289	.129	.767	-.164
330	2336	.368	.158	1.028	-.168
330	2337	.231	.119	.686	-.187
330	2338	.240	.116	.887	-.166
330	2339	.298	.142	1.014	-.163
330	2340	.276	.136	.887	-.159
330	2341	-.269	.095	.066	-.874
330	2342	-.286	.095	-.016	-.895
330	2343	.467	.208	1.135	-.465
330	2344	.450	.215	1.131	-.434
330	2345	.415	.191	1.127	-.240
330	2346	.414	.196	1.198	-1.033
330	2347	.378	.216	1.075	-.584
330	2348	.359	.191	1.150	-.140
330	2349	.345	.208	1.077	-.654
330	2350	.349	.179	1.170	-.202
330	2351	.356	.177	.993	-.341
330	2352	.334	.153	.945	-.061
330	2353	.265	.143	.937	-.076
330	2354	.146	.119	.631	-.277
330	2355	.221	.122	.777	-.154
330	2356	.178	.107	.649	-.162
330	2357	.211	.128	.984	-.183
330	2358	-.329	.109	.250	-.989
330	2359	-.301	.174	.903	-.125
330	2360	-.310	.107	-.050	-1.164
330	2361	.328	.203	.974	-.747
330	2362	.289	.200	1.211	-.914
330	2363	.282	.184	.960	-.265
330	2364	.264	.190	1.089	-.474
330	2365	.254	.185	1.044	-.418
330	2366	.220	.168	.923	-.284
330	2367	.191	.166	.969	-.569
330	2368	.162	.136	.740	-.207
330	2369	.185	.138	.839	-.236
330	2370	.167	.117	.652	-.155
330	2371	.148	.106	.706	-.152
330	2372	.057	.099	.514	-.271
330	2373	.103	.089	.644	-.168
330	2374	.055	.084	.796	-.219
330	2375	.109	.111	.750	-.439
330	2376	-.372	.142	.270	-1.273
330	2377	.133	.136	.768	-.553
330	2378	.123	.142	.790	-.463
330	2379	.096	.099	.557	-.260
330	2380	.084	.110	.576	-.552
330	2381	.066	.093	.543	-.333
330	2382	.061	.078	.425	-.276
330	2383	.045	.087	.482	-.456
330	2384	.052	.089	.485	-.367
330	2385	.039	.072	.350	-.232
330	2386	.039	.072	.407	-.294
330	2387	.051	.073	.409	-.226
330	2388	.056	.072	.408	-.247
330	2389	.059	.066	.355	-.179
330	2390	.056	.061	.317	-.203
330	2391	.006	.066	.479	-.359
330	2392	.019	.060	.469	-.250
330	2393	-.011	.059	.466	-.321
330	2394	.003	.061	.514	-.266
330	2395	.006	.064	.395	-.214
330	2396	.012	.077	.459	-.264
330	2397	-.393	.179	.071	-1.278
330	2398	-.381	.201	.272	-1.298
330	2399	.024	.073	.414	-.327
330	2400	.025	.071	.422	-.348
330	2401	.019	.057	.295	-.191
330	2402	.020	.062	.533	-.419
330	2403	.016	.063	.271	-.475
330	2404	.017	.046	.210	-.196
330	2405	.017	.054	.242	-.489

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	2406	.040	.051	.237	-.176
330	2407	.052	.051	.237	-.155
330	2408	.078	.060	.323	-.118
330	2409	.098	.072	.418	-.083
330	2410	.085	.070	.474	-.092
330	2411	.054	.066	.448	-.112
330	2412	.020	.054	.309	-.130
330	2413	.015	.055	.249	-.290
330	2414	-.224	.153	.201	-1.054
330	2415	.016	.049	.266	-.322
330	2416	-.109	.109	.243	-.808
330	2417	.030	.042	.254	-.109
330	2418	-.037	.053	.164	-.327
330	3101	-.207	.074	.014	-.637
330	3102	-.190	.068	.032	-.628
330	3103	-.193	.066	.006	-.559
330	3104	-.196	.066	.039	-.471
330	3105	-.213	.070	.029	-.640
330	3106	-.215	.075	.020	-.663
330	3107	-.201	.076	.012	-.563
330	3108	-.200	.073	-.001	-.541
330	3109	-.210	.084	-.000	-.654
330	3110	-.211	.089	-.013	-.682
330	3111	-.172	.062	.009	-.494
330	3112	-.203	.087	-.008	-.668
330	3113	-.213	.077	.021	-.618
330	3114	-.235	.084	-.038	-.621
330	3115	-.242	.093	-.001	-.708
330	3116	-.207	.076	.016	-.645
330	3117	-.244	.088	-.046	-.746
330	3118	-.195	.068	.016	-.498
330	3119	-.203	.066	-.020	-.477
330	3120	-.213	.069	-.022	-.539
330	3121	-.213	.069	.029	-.473
330	3122	-.214	.072	.032	-.536
330	3123	-.235	.084	.021	-.588
330	3124	-.206	.074	.070	-.541
330	3125	-.192	.065	.036	-.511
330	3126	-.192	.066	.039	-.550
330	3127	-.197	.066	.023	-.559
330	3128	-.199	.068	.025	-.607
330	3129	-.211	.068	-.005	-.640
330	3130	-.223	.073	-.020	-.775
330	3131	-.215	.068	-.025	-.533
330	3132	-.216	.069	-.038	-.593
330	3133	-.228	.074	-.003	-.533
330	3134	-.222	.074	.016	-.508
330	3135	-.234	.082	.018	-.559
330	3136	-.239	.084	.023	-.562
330	3137	-.219	.095	-.004	-.626
330	3138	-.242	.096	-.010	-.702
330	3139	-.201	.077	.056	-.692
330	3140	-.190	.070	.024	-.517
330	3141	-.208	.070	-.021	-.491
330	3142	-.220	.075	-.030	-.540
330	3143	-.214	.071	-.035	-.469
330	3144	-.221	.076	-.027	-.577
330	3145	-.240	.080	-.038	-.555
330	3146	-.208	.071	.013	-.593
330	3147	-.218	.076	.013	-.616
330	3148	-.196	.067	.015	-.463
330	3149	-.178	.067	.041	-.500
330	3150	-.215	.073	-.000	-.703
330	3151	-.212	.081	-.006	-.702
330	3152	-.219	.083	-.003	-.703
330	3153	-.244	.097	-.015	-.705
330	3154	-.229	.080	-.005	-.553
330	3155	-.239	.088	.001	-.733
330	3156	-.216	.078	.015	-.533
330	3157	-.218	.077	.017	-.552
330	3158	-.257	.092	-.000	-.634
330	3159	-.254	.101	-.004	-.671
330	3160	-.262	.104	-.017	-.682
330	3161	-.231	.076	.024	-.686
330	3162	-.235	.082	.013	-.864
330	3163	-.225	.075	.018	-.602
330	3164	-.227	.075	.008	-.621
330	3165	-.231	.082	.005	-.734
330	3166	-.246	.088	.002	-.761
330	3167	-.238	.083	-.006	-.635
330	3168	-.235	.083	-.024	-.600
330	3169	-.262	.083	.005	-.600
330	3170	-.271	.087	-.012	-.694
330	3171	-.263	.092	-.011	-.763
330	3172	-.274	.095	-.024	-.726
330	3173	-.232	.084	.031	-.712
330	3174	-.238	.093	.006	-.731
330	3175	-.257	.091	-.025	-1.067
330	3176	-.263	.096	-.020	-1.104
330	3177	-.242	.081	.038	-.598
330	3178	-.246	.084	.034	-.710
330	3179	-.263	.087	-.008	-.578
330	3180	-.249	.089	-.003	-.589
330	3181	-.242	.092	-.046	-.753
330	3182	-.271	.093	-.007	-.809
330	3183	-.283	.097	-.018	-.896
330	3184	-.262	.090	-.006	-.796
330	3185	-.265	.096	.000	-.745
330	3186	-.266	.100	.002	-.761
330	3187	-.256	.096	.013	-.794
330	3188	-.261	.099	-.003	-.815
330	3189	-.300	.105	-.024	-.791
330	3190	-.306	.109	-.012	-.823
330	3191	-.292	.105	-.016	-.875
330	3192	-.293	.105	-.017	-.831
330	3193	-.300	.100	.007	-.843
330	3194	-.305	.103	-.012	-.846
330	3195	-.301	.104	-.020	-.975
330	3196	-.288	.102	.013	-.747
330	3197	-.244	.090	-.028	-.629
330	3198	-.246	.092	.025	-.692
330	3199	-.241	.091	-.013	-.692
330	3200	-.300	.112	-.036	-.878
330	3201	-.320	.126	-.038	-1.474
330	3202	-.303	.117	-.023	-1.516
330	3203	-.306	.120	-.030	-1.656
330	3204	-.246	.100	.153	-.680
330	3205	-.260	.101	.038	-.738
330	3206	-.256	.102	.073	-.675
330	3207	-.323	.141	-.023	-1.077
330	3208	-.330	.148	-.024	-1.377
330	3209	-.298	.127	.005	-.993
330	3210	-.303	.130	-.010	-.968
330	3211	-.205	.101	.170	-.621
330	3212	-.264	.112	.055	-.731
330	3213	-.273	.121	.117	-.932
330	3214	-.324	.164	-.013	-1.285
330	3215	-.272	.132	.054	-1.135
330	3216	-.365	.176	-.002	-1.434
330	3217	-.353	.174	-.005	-1.247
330	3218	-.321	.173	.047	-1.913
330	3219	-.316	.165	.008	-1.322
330	3220	-.330	.171	.298	-1.404
330	3221	-.306	.163	.126	-1.357
330	3222	-.249	.139	.305	-.946
330	3223	-.227	.117	.309	-.816
330	3224	-.175	.098	.194	-.645
330	3225	-.173	.097	.141	-.591
330	3226	-.159	.100	.235	-.589
330	3227	-.146	.100	.297	-.589
330	3228	-.154	.103	.355	-.602
330	3229	-.234	.122	.048	-1.078
330	3230	-.323	.166	.017	-1.315
330	3231	-.321	.170	.066	-1.304
330	3232	-.310	.169	.041	-1.205
330	3233	-.328	.184	.060	-1.815
330	3234	-.100	.090	.362	-.413
330	3235	-.226	.138	.165	-.846
330	3236	-.226	.141	.211	-.978
330	3237	-.286	.163	.079	-1.466

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	3238	-.260	.163	.157	-1.430
330	3239	-.252	.160	.156	-1.565
330	3240	-.253	.162	.133	-1.401
330	3241	-.202	.146	.083	-1.049
330	3242	-.184	.145	.118	-1.110
330	3243	-.157	.121	.138	-.950
330	3244	-.166	.127	.178	-.936
330	3245	-.143	.113	.119	-.901
330	3246	-.124	.110	.195	-.831
330	3247	-.108	.112	.398	-.803
330	3248	-.036	.081	.381	-.411
330	3249	-.010	.091	.429	-.401
330	3250	-.040	.066	.355	-.310
330	3251	-.038	.063	.267	-.330
330	3252	-.015	.067	.374	-.314
330	3253	-.090	.108	.217	-.823
330	3254	-.084	.099	.268	-.960
330	3255	-.048	.059	.185	-.354
330	3256	-.049	.049	.133	-.276
330	3257	-.042	.063	.250	-.501
330	3258	.011	.060	.371	-.279
330	3259	-.022	.042	.168	-.323
330	3260	.054	.072	.518	-.158
330	3261	-.016	.059	.260	-.322
330	3262	-.014	.043	.143	-.232
330	3263	.017	.049	.283	-.223
330	3264	-.057	.059	.171	-.364
330	3265	-.170	.083	.022	-.668
330	3266	.053	.066	.524	-.129
330	3267	.054	.068	.521	-.112
330	4301	-.197	.101	.039	-.788
330	4302	-.060	.062	.111	-.348
330	4303	-.143	.067	.044	-.588
330	4304	-.130	.060	.050	-.532
330	4305	-.143	.060	.027	-.383
330	4306	-.150	.056	.016	-.381
330	4307	-.156	.056	.022	-.374
330	4308	-.151	.056	.023	-.362
330	4309	-.155	.056	.027	-.380
330	4310	-.165	.059	.041	-.480
330	4311	-.199	.093	.015	-.675
330	4312	-.204	.098	.011	-.665
330	4313	-.153	.056	.016	-.365
330	4314	-.164	.059	-.002	-.440
330	4315	-.204	.090	.026	-.761
330	4316	-.216	.101	.005	-.739
330	4317	-.162	.055	.018	-.458
330	4318	-.171	.058	.002	-.434
330	4319	-.162	.056	.006	-.429
330	4320	-.159	.057	.011	-.399
330	4321	-.160	.054	.018	-.378
330	4322	-.160	.051	-.014	-.449
330	4323	-.160	.052	-.012	-.429
330	4324	-.150	.051	.009	-.418
330	4325	-.156	.051	.003	-.411
330	4326	-.159	.049	-.025	-.356
330	4327	-.154	.049	-.001	-.356
330	4328	-.149	.050	-.002	-.365
330	4329	-.160	.051	-.028	-.367
330	4330	-.160	.053	-.005	-.418
330	4331	-.155	.053	.002	-.354
330	4332	-.150	.053	.007	-.346
330	4333	-.155	.052	.000	-.347
330	4334	-.162	.054	-.016	-.375
330	4335	-.158	.054	-.005	-.376
330	4336	-.149	.054	0.000	-.369
330	4337	-.158	.055	-.002	-.387
330	4338	-.141	.051	.023	-.332
330	4339	-.135	.051	.022	-.323
330	4340	-.151	.054	.011	-.353
330	4341	-.170	.058	.007	-.387
330	4342	-.163	.059	.027	-.424
330	4343	-.222	.099	-.003	-.807
330	4344	-.232	.109	.009	-.924
330	4345	-.174	.061	-.015	-.462
330	4346	-.221	.090	-.025	-.645
330	4347	-.242	.101	.002	-.712
330	4348	-.176	.056	-.011	-.539
330	4349	-.239	.098	-.013	-.790
330	4350	-.180	.059	-.016	-.456
330	4351	-.194	.058	-.005	-.508
330	4352	-.184	.055	.008	-.429
330	4353	-.170	.054	.067	-.434
330	4354	-.179	.057	.027	-.478
330	4355	-.174	.058	-.002	-.465
330	4356	-.166	.058	-.001	-.482
330	4357	-.156	.053	-.000	-.423
330	4358	-.171	.064	.034	-.571
330	4359	-.201	.065	-.018	-.536
330	4360	-.177	.067	.026	-.489
330	4361	-.241	.114	.078	-1.179
330	4362	-.245	.104	.009	-.911
330	4363	-.208	.065	.011	-.490
330	4364	-.254	.104	-.031	-.929
330	4365	-.256	.107	-.028	-.879
330	4366	-.219	.072	.040	-.551
330	4367	-.257	.095	-.014	-.815
330	4368	-.230	.078	-.020	-.604
330	4369	-.214	.073	-.016	-.562
330	4370	-.212	.071	.000	-.478
330	4371	-.207	.073	-.023	-.547
330	4372	-.207	.080	-.012	-.683
330	4373	-.192	.079	.037	-.541
330	4374	-.197	.081	.034	-.633
330	4375	-.190	.075	.039	-.645
330	4376	-.204	.091	.090	-.717
330	4377	-.251	.094	-.012	-.915
330	4378	-.267	.111	.040	-.916
330	4379	-.241	.090	-.006	-.588
330	4380	-.238	.100	.175	-.675
330	4381	-.254	.111	.004	-.883
330	4382	-.250	.100	.004	-.757
330	4383	-.241	.121	.093	-.870
330	4384	-.246	.115	.047	-.844
330	4385	-.239	.105	.032	-.736
330	4386	-.216	.103	.074	-.705
330	4387	-.224	.098	.079	-.698
330	4388	-.224	.099	.088	-.665
330	4389	-.225	.093	.076	-.691
330	4390	-.245	.103	.080	-.826
330	4391	-.248	.104	-.006	-.724
330	4392	-.238	.105	.011	-1.003
330	4393	-.237	.109	.013	-.906
330	4394	-.236	.107	.027	-.918
330	4395	-.236	.104	0.000	-.808
330	4396	-.230	.105	.036	-.737
330	4397	-.248	.117	.053	-.923
330	4398	-.251	.120	.071	-.932
330	4399	-.212	.122	.077	-.762
330	4400	-.208	.120	.084	-.803
330	4401	-.207	.109	.107	-.687
330	4402	-.174	.129	.140	-.980
330	4403	-.166	.128	.117	-.879
330	4404	-.173	.119	.166	-.756
330	4405	-.122	.113	.163	-.972
330	4406	-.071	.071	.242	-.544
330	4407	-.103	.083	.166	-.527
330	4408	-.118	.080	.079	-.630
330	4409	-.169	.095	.125	-.768
330	4410	-.230	.113	.020	-.937
330	4411	-.279	.138	-.024	-1.074
330	4412	-.275	.144	.004	-1.170
330	4413	-.281	.150	.063	-1.144
330	4414	-.299	.158	-.012	-1.174
330	4415	-.069	.078	.213	-.548
330	4416	-.304	.158	-.035	-2.075
330	4417	-.037	.052	.156	-.415
330	4418	-.199	.092	-.016	-.764
330	4419	-.047	.050	.312	-.372
330	4420	-.037	.055	.319	-.418

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	4421	-.027	.049	.154	-.288
330	4422	-.056	.068	.175	-.614
330	4423	-.122	.074	.048	-.598
330	4424	-.145	.078	.024	-.521
330	9901	.014	.044	.200	-.176
330	9902	-.013	.041	.167	-.232
330	9903	-.015	.040	.158	-.233
330	9904	-.092	.053	.045	-.349
330	9905	-.095	.049	.072	-.324
345	110	.103	.123	.598	-.349
345	111	-.268	.133	.507	-.753
345	112	.405	.165	1.072	-.102
345	130	-.142	.077	.080	-.696
345	140	-.181	.066	.027	-.534
345	141	-.183	.066	.011	-.527
345	142	-.202	.069	.010	-.521
345	143	-.212	.077	.013	-.583
345	144	-.185	.064	.002	-.499
345	145	-.212	.074	.027	-.547
345	220	.385	.181	1.072	-.418
345	221	-.282	.178	.695	-.867
345	230	-.332	.092	-.074	-.716
345	231	-.334	.110	-.045	-.819
345	310	.080	.144	.564	-.679
345	320	.211	.123	.619	-.213
345	321	-.194	.079	.172	-.519
345	322	.337	.150	.946	-.173
345	323	-.278	.088	.085	-.713
345	324	.390	.160	1.009	-.176
345	325	-.275	.112	.170	-.820
345	330	-.172	.071	.002	-.433
345	331	-.217	.071	-.024	-.501
345	332	-.214	.067	-.043	-.469
345	410	-.196	.166	.756	-.930
345	411	.205	.159	1.022	-.284
345	440	-.221	.093	.053	-.781
345	441	-.274	.127	.012	-.993
345	901	-.397	.110	-.041	-.796
345	902	-.350	.100	-.042	-.769
345	903	-.307	.091	-.039	-.677
345	904	-.247	.134	.327	-.957
345	905	-.201	.081	.023	-.545
345	906	-.095	.097	.351	-.428
345	907	-.075	.102	.272	-.431
345	908	.083	.118	.572	-.362
345	909	-.290	.093	.005	-.635
345	910	-.253	.113	.160	-.733
345	911	-.220	.092	.090	-.690
345	912	-.171	.059	.016	-.358
345	1101	-.276	.093	.124	-.827
345	1102	.313	.155	.992	-.219
345	1103	.233	.126	.792	-.246
345	1104	.176	.119	.685	-.286
345	1105	.000	.126	.543	-.415
345	1106	.241	.129	.760	-.166
345	1107	.284	.145	.911	-.301
345	1108	.290	.203	.955	-.556
345	1109	.210	.224	.962	-.554
345	1110	.437	.183	1.162	-.257
345	1111	.259	.139	.858	-.112
345	1112	.435	.182	1.167	-.253
345	1113	-.246	.091	-.042	-.740
345	1114	.330	.186	.999	-.277
345	1115	.460	.191	1.232	-.189
345	1116	-.251	.090	-.038	-.742
345	1117	.374	.193	1.003	-.153
345	1118	.266	.138	.760	-.151
345	1119	.333	.152	.976	-.110
345	1120	.266	.152	.774	-.161
345	1121	.372	.158	.966	-.149
345	1122	.396	.167	1.054	-.204
345	1123	.413	.187	1.058	-.332
345	1124	-.255	.082	-.034	-.864
345	1125	.258	.126	.875	-.162
345	1126	.221	.107	.672	-.140
345	1127	.248	.113	.713	-.096
345	1128	.235	.111	.692	-.096
345	1129	.296	.136	.934	-.069
345	1130	.137	.112	.627	-.215
345	1131	.300	.127	.872	-.083
345	1132	.311	.131	.875	-.003
345	1133	.356	.152	.864	-.058
345	1134	.396	.159	.935	-.058
345	1135	.401	.198	1.071	-.250
345	1136	.374	.195	1.058	-.168
345	1137	.459	.192	1.165	-.285
345	1138	-.435	.189	.966	-.322
345	1139	-.249	.090	-.026	-.934
345	1140	.216	.117	.853	-.099
345	1141	.313	.154	1.018	-.054
345	1142	.204	.136	.737	-.135
345	1143	.349	.156	1.002	-.022
345	1144	.397	.167	1.056	-.045
345	1145	.398	.206	1.184	-.097
345	1146	-.261	.088	.051	-.895
345	1147	-.256	.085	-.041	-.841
345	1148	.261	.141	.839	-.167
345	1149	.265	.137	.783	-.102
345	1150	.396	.198	1.085	-.285
345	1151	.449	.201	1.114	-.490
345	1152	.447	.200	1.114	-.524
345	1153	.435	.187	1.078	-.412
345	1154	-.262	.083	-.033	-.833
345	1155	-.258	.083	-.024	-.817
345	1156	.247	.128	.773	-.118
345	1157	.256	.134	.800	-.129
345	1158	.392	.193	1.133	-.091
345	1159	.436	.190	1.114	-.247
345	1160	.434	.188	1.098	-.216
345	1161	-.272	.092	-.035	-.838
345	1162	-.261	.088	-.028	-.784
345	1163	.229	.133	.793	-.151
345	1164	.200	.113	.684	-.103
345	1165	.228	.110	.682	-.138
345	1166	.187	.122	.732	-.172
345	1167	.318	.136	.922	-.079
345	1168	.354	.155	1.058	-.181
345	1169	.369	.189	1.021	-.138
345	1170	.352	.189	1.020	-.163
345	1171	.370	.197	1.071	-.279
345	1172	.370	.191	1.046	-.256
345	1173	.226	.124	.759	-.222
345	1174	.346	.193	.962	-.353
345	1175	-.304	.106	-.022	-1.117
345	1176	-.291	.103	-.019	-.990
345	1177	.212	.130	.790	-.184
345	1178	.205	.128	.811	-.163
345	1179	.318	.181	1.242	-.195
345	1180	.311	.182	.943	-.428
345	1181	.345	.189	.980	-.586
345	1182	-.322	.116	.028	-1.055
345	1183	-.318	.114	-.067	-1.086
345	1184	.182	.122	.757	-.237
345	1185	.181	.123	.785	-.143
345	1186	.283	.165	1.085	-.128
345	1187	.263	.180	1.023	-.379
345	1188	.271	.173	1.002	-.397
345	1189	-.348	.130	.090	-1.021
345	1190	-.335	.127	.004	-1.007
345	1191	.175	.121	.612	-.231
345	1192	.158	.102	.527	-.212
345	1193	.177	.113	.739	-.117
345	1194	.158	.127	.876	-.190
345	1195	.256	.139	.853	-.082
345	1196	.278	.148	.907	-.160
345	1197	.278	.156	.831	-.160
345	1198	.265	.157	.867	-.274
345	1199	.228	.160	.913	-.440
345	1200	-.389	.143	.186	-1.267
345	1201	-.380	.125	-.049	-.989

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
345	1202	.129	.111	.589	-.239
345	1203	.143	.109	.569	-.171
345	1204	.236	.135	.736	-.190
345	1205	.165	.151	.889	-.855
345	1206	.179	.149	.932	-.900
345	1207	-.412	.154	.132	-1.129
345	1208	-.403	.148	.033	-1.081
345	1209	.120	.116	.809	-.275
345	1210	.125	.115	.809	-.225
345	1211	.215	.137	.944	-.137
345	1212	.133	.149	.797	-.475
345	1213	.131	.114	.610	-.464
345	1214	.064	.098	.533	-.276
345	1215	.102	.113	.589	-.480
345	1216	-.389	.142	.107	-1.058
345	1217	-.392	.138	-.061	-1.128
345	1218	.077	.092	.567	-.204
345	1219	.076	.077	.449	-.174
345	1220	.056	.069	.375	-.142
345	1221	.098	.077	.424	-.142
345	1222	.104	.085	.509	-.135
345	1223	.157	.093	.634	-.096
345	1224	.161	.099	.681	-.098
345	1225	.153	.097	.708	-.099
345	1226	.154	.100	.730	-.082
345	1227	.144	.100	.722	-.101
345	1228	.139	.100	.741	-.124
345	1229	.112	.109	.562	-.295
345	1230	-.445	.157	-.196	-1.152
345	1231	-.443	.153	-.015	-1.108
345	1232	.040	.089	.529	-.282
345	1233	.058	.089	.815	-.245
345	1234	.128	.099	.790	-.167
345	1235	.076	.104	.611	-.667
345	1236	-.090	.101	.671	-.639
345	1237	-.449	.188	.180	-1.283
345	1238	-.454	.179	.001	-1.240
345	1239	.026	.077	.378	-.293
345	1240	.036	.075	.394	-.273
345	1241	.045	.086	.550	-.381
345	1242	.057	.081	.521	-.296
345	1243	-.418	.168	.179	-1.239
345	1244	-.434	.163	.082	-1.338
345	1245	.030	.065	.323	-.240
345	1246	.063	.062	.381	-.181
345	1247	.072	.062	.337	-.224
345	1248	.124	.073	.422	-.105
345	1249	.119	.076	.531	-.035
345	1250	.101	.074	.461	-.130
345	1251	.096	.075	.454	-.136
345	1252	.085	.075	.424	-.159
345	1253	.052	.076	.447	-.288
345	1254	-.141	.079	.125	-.657
345	1255	.032	.062	.329	-.305
345	1256	.057	.055	.301	-.147
345	1257	-.204	.087	.042	-.636
345	1258	-.128	.061	.040	-.517
345	1259	.051	.045	.260	-.077
345	1260	.022	.055	.231	-.170
345	1261	.112	.069	.536	-.051
345	1262	.105	.066	.521	-.082
345	1263	.112	.069	.554	-.075
345	1264	.066	.051	.305	-.103
345	1265	-.010	.056	.282	-.312
345	1266	-.144	.095	.083	-.707
345	1267	-.120	.070	.098	-.505
345	1901	.100	.099	.480	-.186
345	1902	-.008	.066	.283	-.245
345	1903	-.037	.111	.494	-.380
345	1904	-.203	.132	.309	-1.109
345	1905	-.234	.084	.063	-.643
345	1906	-.300	.092	-.046	-.686
345	1907	-.365	.111	-.026	-.937
345	1908	-.448	.111	-.128	-.966
345	1909	-.142	.093	.164	-.452
345	1910	-.054	.086	.244	-.424
345	1911	-.122	.103	.222	-.572
345	1912	-.216	.049	-.049	-.372
345	2301	.403	.223	1.180	-.670
345	2302	.086	.206	.761	-.549
345	2303	.012	.271	.835	-.740
345	2304	.223	.144	.840	-.302
345	2305	.144	.122	.745	-.208
345	2306	-.139	.115	.767	-.488
345	2307	.097	.100	.560	-.199
345	2308	.169	.114	.802	-.135
345	2309	.316	.151	.975	-.143
345	2310	-.230	.080	.110	-.628
345	2311	.314	.231	.982	-.608
345	2312	.418	.213	1.136	-.614
345	2313	.162	.195	.836	-.562
345	2314	-.224	.064	-.032	-.597
345	2315	.304	.235	1.090	-.794
345	2316	.328	.228	1.085	-.795
345	2317	.140	.162	.712	-.411
345	2318	.135	.176	.770	-.395
345	2319	.145	.195	.828	-.398
345	2320	.227	.191	.890	-.404
345	2321	.271	.146	.867	-.249
345	2322	.282	.150	.935	-.281
345	2323	.222	.109	.723	-.187
345	2324	.232	.111	.710	-.066
345	2325	.298	.141	.944	-.055
345	2326	.224	.111	.714	-.079
345	2327	.240	.109	.756	-.111
345	2328	.313	.138	.971	-.066
345	2329	.040	.093	.425	-.224
345	2330	.014	.104	.444	-.346
345	2331	.125	.117	.777	-.226
345	2332	.194	.122	.749	-.175
345	2333	.220	.133	.867	-.184
345	2334	.165	.100	.700	-.120
345	2335	.183	.103	.736	-.116
345	2336	.261	.135	1.018	-.117
345	2337	.139	.094	.653	-.136
345	2338	.176	.101	.547	-.110
345	2339	.231	.126	.776	-.113
345	2340	.224	.119	.837	-.186
345	2341	-.224	.059	-.033	-.619
345	2342	-.208	.065	-.025	-.499
345	2343	.248	.235	.920	-.923
345	2344	.274	.223	.941	-.943
345	2345	.132	.161	.736	-.553
345	2346	.305	.245	1.062	-.625
345	2347	.252	.249	1.029	-.917
345	2348	.140	.179	.916	-.644
345	2349	.164	.267	1.061	-1.086
345	2350	.161	.175	.900	-.532
345	2351	.087	.171	.835	-.432
345	2352	.204	.153	.833	-.355
345	2353	.196	.113	.754	-.129
345	2354	-.009	.084	.405	-.303
345	2355	.116	.086	.558	-.162
345	2356	.089	.077	.506	-.205
345	2357	.170	.113	.696	-.281
345	2358	-.245	.071	-.053	-.650
345	2359	-.078	.147	.895	-.499
345	2360	-.225	.070	.005	-.610
345	2361	.099	.235	.992	-.934
345	2362	.204	.232	.914	-.682
345	2363	.054	.150	.737	-.460
345	2364	.027	.232	.866	-.888
345	2365	.064	.223	.770	-.855
345	2366	.013	.141	.551	-.463
345	2367	.048	.217	.768	-.746
345	2368	.018	.143	.607	-.449
345	2369	.033	.149	.833	-.411
345	2370	.091	.128	.682	-.364
345	2371	.097	.084	.535	-.158
345	2372	-.022	.080	.457	-.317

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
345	2373	.057	.072	.414	-.149
345	2374	.020	.067	.389	-.186
345	2375	.063	.096	.566	-.270
345	2376	-.287	.112	-.011	-.993
345	2377	-.013	.184	.632	-.877
345	2378	-.034	.195	.594	-.738
345	2379	-.024	.127	.434	-.590
345	2380	-.049	.162	.553	-.722
345	2381	-.038	.173	.413	-.925
345	2382	-.040	.109	.304	-.585
345	2383	-.091	.162	.652	-.768
345	2384	-.046	.164	.584	-.669
345	2385	-.057	.099	.375	-.425
345	2386	-.048	.085	.287	-.434
345	2387	-.040	.093	.388	-.492
345	2388	-.029	.098	.389	-.625
345	2389	.003	.081	.366	-.425
345	2390	.022	.054	.256	-.241
345	2391	-.050	.056	.240	-.288
345	2392	-.018	.053	.247	-.193
345	2393	-.047	.054	.208	-.244
345	2394	-.034	.055	.230	-.234
345	2395	-.024	.057	.254	-.270
345	2396	-.021	.071	.303	-.279
345	2397	-.342	.147	-.018	-1.061
345	2398	-.354	.157	.044	-1.128
345	2399	-.078	.121	.249	-.684
345	2400	-.050	.117	.289	-.599
345	2401	-.049	.071	.192	-.482
345	2402	-.057	.097	.204	-.543
345	2403	-.026	.099	.324	-.629
345	2404	-.021	.064	.194	-.446
345	2405	-.023	.085	.263	-.580
345	2406	.003	.059	.191	-.597
345	2407	.017	.066	.266	-.382
345	2408	.039	.067	.345	-.360
345	2409	.054	.064	.361	-.177
345	2410	.030	.060	.358	-.152
345	2411	.003	.052	.314	-.211
345	2412	-.025	.047	.243	-.263
345	2413	-.023	.048	.195	-.286
345	2414	-.348	.170	.051	-1.228
345	2415	-.004	.060	.156	-.362
345	2416	-.063	.084	.250	-.657
345	2417	.022	.045	.156	-.256
345	2418	-.032	.042	.109	-.241
345	3101	-.197	.064	.002	-.482
345	3102	-.186	.061	.001	-.439
345	3103	-.188	.060	-.003	-.425
345	3104	-.190	.060	-.012	-.427
345	3105	-.181	.057	-.019	-.439
345	3106	-.181	.060	-.010	-.590
345	3107	-.166	.058	.014	-.695
345	3108	-.167	.057	.030	-.567
345	3109	-.188	.062	.009	-.511
345	3110	-.183	.065	.018	-.504
345	3111	-.173	.059	-.013	-.403
345	3112	-.177	.062	.030	-.478
345	3113	-.184	.062	.019	-.494
345	3114	-.191	.061	-.017	-.541
345	3115	-.182	.062	.018	-.453
345	3116	-.181	.061	.046	-.474
345	3117	-.189	.061	-.024	-.564
345	3118	-.176	.058	-.001	-.379
345	3119	-.178	.056	-.006	-.363
345	3120	-.181	.057	-.017	-.373
345	3121	-.178	.055	-.029	-.384
345	3122	-.176	.056	-.008	-.381
345	3123	-.179	.058	-.001	-.396
345	3124	-.176	.059	.004	-.380
345	3125	-.177	.057	.004	-.415
345	3126	-.178	.056	-.006	-.411
345	3127	-.181	.056	-.003	-.413
345	3128	-.180	.057	-.001	-.422
345	3129	-.192	.057	-.041	-.475
345	3130	-.201	.059	-.040	-.527
345	3131	-.193	.057	-.049	-.475
345	3132	-.192	.056	-.047	-.436
345	3133	-.192	.056	-.000	-.398
345	3134	-.186	.054	.001	-.411
345	3135	-.187	.057	.004	-.408
345	3136	-.191	.059	.002	-.404
345	3137	-.176	.059	-.004	-.475
345	3138	-.184	.059	.037	-.600
345	3139	-.180	.060	.001	-.400
345	3140	-.168	.055	-.001	-.347
345	3141	-.178	.056	-.007	-.396
345	3142	-.182	.058	-.026	-.451
345	3143	-.186	.055	-.037	-.412
345	3144	-.181	.056	-.024	-.407
345	3145	-.185	.057	-.042	-.396
345	3146	-.172	.059	.002	-.499
345	3147	-.185	.061	-.001	-.495
345	3148	-.170	.057	.006	-.391
345	3149	-.175	.056	.029	-.444
345	3150	-.189	.057	-.037	-.512
345	3151	-.193	.060	-.016	-.564
345	3152	-.190	.061	-.013	-.563
345	3153	-.189	.059	.000	-.484
345	3154	-.186	.061	.013	-.533
345	3155	-.199	.065	.044	-.670
345	3156	-.182	.060	.008	-.475
345	3157	-.178	.063	-.026	-.546
345	3158	-.192	.062	-.035	-.446
345	3159	-.200	.065	-.013	-.500
345	3160	-.196	.065	-.017	-.498
345	3161	-.189	.066	.041	-.551
345	3162	-.190	.069	.045	-.720
345	3163	-.191	.064	-.001	-.483
345	3164	-.191	.062	-.010	-.426
345	3165	-.195	.056	-.038	-.444
345	3166	-.204	.059	-.051	-.554
345	3167	-.203	.055	-.051	-.462
345	3168	-.195	.053	-.038	-.440
345	3169	-.188	.062	-.016	-.498
345	3170	-.191	.064	-.016	-.512
345	3171	-.197	.065	-.008	-.568
345	3172	-.197	.066	-.029	-.567
345	3173	-.200	.065	.012	-.572
345	3174	-.206	.067	-.005	-.604
345	3175	-.218	.071	-.020	-.651
345	3176	-.223	.073	-.022	-.779
345	3177	-.194	.068	.034	-.465
345	3178	-.195	.069	.077	-.531
345	3179	-.213	.068	-.011	-.502
345	3180	-.207	.068	-.024	-.491
345	3181	-.210	.067	-.014	-.544
345	3182	-.225	.079	.022	-.595
345	3183	-.237	.083	.008	-.630
345	3184	-.223	.077	.008	-.556
345	3185	-.202	.074	.026	-.584
345	3186	-.203	.069	-.030	-.547
345	3187	-.209	.072	-.030	-.675
345	3188	-.207	.072	-.027	-.649
345	3189	-.238	.087	.038	-.677
345	3190	-.240	.091	.043	-.931
345	3191	-.235	.086	.072	-.742
345	3192	-.237	.085	.050	-.895
345	3193	-.229	.089	-.019	-1.002
345	3194	-.235	.087	-.044	-.672
345	3195	-.229	.082	-.032	-.557
345	3196	-.219	.076	-.027	-.540
345	3197	-.218	.073	-.045	-.567
345	3198	-.222	.074	-.021	-.629
345	3199	-.223	.077	-.032	-.640
345	3200	-.241	.100	-.006	-.874
345	3201	-.264	.104	.024	-.902
345	3202	-.251	.095	-.007	-.810
345	3203	-.254	.095	-.016	-.903
345	3204	-.236	.078	.031	-.674

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
345	3205	-.238	.080	-.021	-.605
345	3206	-.234	.079	-.007	-.565
345	3207	-.268	.122	.077	-.912
345	3208	-.279	.130	.006	-1.097
345	3209	-.265	.120	.022	-1.622
345	3210	-.271	.119	.054	-1.694
345	3211	-.226	.076	-.006	-.632
345	3212	-.253	.088	-.031	-.672
345	3213	-.252	.090	.012	-.670
345	3214	-.277	.153	.150	-1.655
345	3215	-.245	.097	.049	-.719
345	3216	-.304	.145	-.033	-1.071
345	3217	-.339	.156	-.005	-1.564
345	3218	-.308	.144	-.009	-1.610
345	3219	-.312	.140	-.008	-1.364
345	3220	-.327	.142	-.004	-1.374
345	3221	-.295	.125	.085	-1.235
345	3222	-.246	.104	.097	-.970
345	3223	-.221	.093	.067	-.778
345	3224	-.206	.082	.070	-.600
345	3225	-.235	.082	.021	-.713
345	3226	-.214	.082	.039	-.669
345	3227	-.216	.081	.067	-.594
345	3228	-.219	.080	.070	-.658
345	3229	-.273	.098	.024	-.884
345	3230	-.338	.159	.039	-1.258
345	3231	-.357	.171	.076	-1.239
345	3232	-.328	.155	.082	-1.481
345	3233	-.338	.166	0.000	-1.687
345	3234	-.164	.082	.180	-.529
345	3235	-.238	.116	.094	-.837
345	3236	-.231	.114	.021	-.888
345	3237	-.334	.159	-.035	-1.204
345	3238	-.322	.165	.023	-1.253
345	3239	-.297	.153	.051	-1.280
345	3240	-.314	.160	.003	-1.430
345	3241	-.192	.103	.080	-1.157
345	3242	-.163	.094	.111	-.940
345	3243	-.276	.164	.071	-1.193
345	3244	-.294	.175	.174	-1.319
345	3245	-.270	.147	.047	-1.244
345	3246	-.210	.119	.076	-1.021
345	3247	-.141	.094	.180	-.645
345	3248	-.097	.079	.344	-.507
345	3249	-.115	.094	.280	-.558
345	3250	-.105	.080	.140	-.485
345	3251	-.084	.071	.169	-.401
345	3252	-.093	.081	.223	-.454
345	3253	-.133	.081	.179	-.607
345	3254	-.138	.114	.108	-.862

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
345	3255	-.072	.057	.139	-.412
345	3256	-.064	.066	.181	-.361
345	3257	-.078	.061	.075	-.482
345	3258	-.022	.051	.253	-.262
345	3259	-.020	.049	.178	-.290
345	3260	-.000	.054	.295	-.155
345	3261	-.019	.053	.313	-.228
345	3262	-.017	.050	.203	-.228
345	3263	-.019	.051	.308	-.215
345	3264	-.042	.057	.258	-.352
345	3265	-.219	.099	.025	-.759
345	3266	-.003	.052	.302	-.219
345	3267	-.005	.052	.312	-.140
345	4301	-.203	.076	.002	-.713
345	4302	-.090	.061	.075	-.375
345	4303	-.163	.061	.006	-.433
345	4304	-.157	.062	.011	-.559
345	4305	-.183	.064	-.006	-.477
345	4306	-.184	.057	-.025	-.460
345	4307	-.180	.055	-.023	-.431
345	4308	-.168	.056	-.011	-.424
345	4309	-.176	.057	-.011	-.430
345	4310	-.181	.069	-.000	-.430
345	4311	-.183	.064	.008	-.502
345	4312	-.183	.065	.027	-.485
345	4313	-.184	.063	-.006	-.496
345	4314	-.197	.067	-.011	-.480
345	4315	-.194	.067	-.016	-.535
345	4316	-.185	.067	-.011	-.578
345	4317	-.197	.062	-.011	-.472
345	4318	-.185	.056	-.020	-.442
345	4319	-.178	.053	-.034	-.418
345	4320	-.167	.051	-.028	-.397
345	4321	-.182	.052	-.031	-.377
345	4322	-.177	.055	.005	-.444
345	4323	-.180	.056	.004	-.480
345	4324	-.169	.055	.018	-.452
345	4325	-.175	.054	.012	-.439
345	4326	-.183	.055	-.016	-.539
345	4327	-.180	.055	-.018	-.535
345	4328	-.168	.054	-.005	-.516
345	4329	-.190	.059	-.020	-.532
345	4330	-.188	.057	-.014	-.464
345	4331	-.183	.056	-.014	-.453
345	4332	-.175	.057	0.000	-.449
345	4333	-.182	.056	-.004	-.444
345	4334	-.177	.054	.002	-.401
345	4335	-.174	.054	.015	-.415
345	4336	-.163	.053	.016	-.362
345	4337	-.174	.056	.029	-.495

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
345	4338	-.180	.056	.002	-.548
345	4339	-.166	.056	.013	-.525
345	4340	-.160	.056	.021	-.365
345	4341	-.185	.063	.018	-.446
345	4342	-.188	.065	.016	-.503
345	4343	-.195	.068	.006	-.646
345	4344	-.186	.068	.021	-.617
345	4345	-.196	.063	-.028	-.495
345	4346	-.194	.058	-.024	-.598
345	4347	-.200	.069	-.009	-.526
345	4348	-.184	.058	-.007	-.527
345	4349	-.208	.072	-.024	-.825
345	4350	-.196	.060	-.030	-.473
345	4351	-.202	.059	-.041	-.580
345	4352	-.197	.057	-.040	-.482
345	4353	-.187	.058	-.023	-.433
345	4354	-.202	.061	-.026	-.501
345	4355	-.196	.067	.014	-.628
345	4356	-.192	.066	.006	-.491
345	4357	-.171	.059	-.002	-.557
345	4358	-.200	.071	.020	-.650
345	4359	-.210	.062	-.036	-.469
345	4360	-.208	.072	-.003	-.659
345	4361	-.209	.071	-.007	-.497
345	4362	-.200	.065	-.000	-.634
345	4363	-.222	.062	-.057	-.565
345	4364	-.240	.075	-.009	-.790
345	4365	-.232	.074	.018	-.706
345	4366	-.238	.067	-.062	-.710
345	4367	-.219	.076	-.028	-.672
345	4368	-.251	.082	-.012	-.715
345	4369	-.235	.079	.039	-.571
345	4370	-.243	.080	-.046	-.746
345	4371	-.235	.080	-.036	-.856
345	4372	-.242	.085	-.029	-.797
345	4373	-.226	.081	-.009	-.676
345	4374	-.232	.081	-.011	-.668
345	4375	-.212	.077	.019	-.583
345	4376	-.236	.085	.028	-.675
345	4377	-.254	.084	.050	-.648
345	4378	-.257	.089	-.040	-.728
345	4379	-.250	.080	-.010	-.661
345	4380	-.247	.090	.032	-.608
345	4381	-.253	.092	.010	-.806
345	4382	-.266	.089	-.009	-.786
345	4383	-.259	.109	.045	-.765
345	4384	-.259	.103	.008	-.776
345	4385	-.271	.103	.106	-.731
345	4386	-.255	.096	.037	-.714
345	4387	-.252	.100	-.001	-.831

APPENDIX A -- PRESSURE DATA: PITTSBURGH PLATE GLASS TOWER, PITTSBURGH, PA.

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
345	4388	-.249	.100	.002	-.867
345	4389	-.263	.100	.015	-.747
345	4390	-.281	.108	-.020	-.820
345	4391	-.282	.115	-.003	-1.029
345	4392	-.276	.112	-.000	-.960
345	4393	-.281	.114	-.024	-1.198
345	4394	-.282	.111	-.040	-1.041
345	4395	-.266	.097	-.040	-.977
345	4396	-.291	.109	-.005	-.883
345	4397	-.314	.117	-.003	-.949
345	4398	-.323	.120	.013	-1.074
345	4399	-.255	.112	.074	-.786
345	4400	-.251	.107	.066	-.728
345	4401	-.271	.110	.013	-.745
345	4402	-.217	.111	.136	-.726
345	4403	-.212	.103	.070	-.720
345	4404	-.230	.112	.170	-.803
345	4405	-.159	.100	.146	-1.012
345	4406	-.126	.097	.307	-.663
345	4407	-.145	.098	.181	-.588
345	4408	-.173	.105	.216	-.580
345	4409	-.236	.117	.171	-.856
345	4410	-.294	.127	.027	-.987
345	4411	-.327	.137	-.005	-1.154
345	4412	-.332	.138	.042	-1.201
345	4413	-.336	.149	.090	-1.191
345	4414	-.365	.147	-.025	-1.230
345	4415	-.086	.074	.129	-.576
345	4416	-.379	.176	-.040	-1.601
345	4417	-.061	.061	.137	-.448
345	4418	-.235	.105	.009	-.677
345	4419	-.029	.062	.383	-.308
345	4420	-.032	.060	.271	-.342
345	4421	-.033	.064	.332	-.326
345	4422	-.073	.088	.323	-.695
345	4423	-.167	.098	.195	-.793
345	4424	-.182	.093	.032	-.722
345	9901	-.022	.045	.139	-.231
345	9902	-.012	.042	.124	-.161
345	9903	-.020	.045	.121	-.203
345	9904	-.108	.071	.061	-.500
345	9905	-.137	.065	.080	-.506