

Engineering Series

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WIND-TUNNEL STUDY OF  
U.S. STEEL GRANT STREET BUILDING,  
PITTSBURGH

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Project 2-27150

November 1980

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## LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
U	Local mean velocity
D	Characteristic dimension (building height, width, etc.)
$\nu, \rho$	Kinematic viscosity and density of approach flow
$\frac{UD}{\nu}$	Reynolds number
E	Mean voltage
A, B, n	Constants
$U_{rms}$	Root-mean-square of fluctuating velocity
$E_{rms}$	Root-mean-square of fluctuating voltage
$U_{\infty}$	Reference mean velocity outside the boundary layer
X, Y	Horizontal coordinates
Z	Height above surface
$\delta$	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, $\frac{((p-p_{\infty}) - (p-p_{\infty})_{mean})_{rms}}{0.5 \rho U_{\infty}^2}$
$C_{P_{max}}$	Peak maximum pressure coefficient, $\frac{(p-p_{\infty})_{max}}{0.5 \rho U_{\infty}^2}$
$C_{P_{min}}$	Peak minimum pressure coefficient, $\frac{(p-p_{\infty})_{min}}{0.5 \rho U_{\infty}^2}$
$( )_{min}$	Minimum value during data record
$( )_{max}$	Maximum value during data record

SymbolDefinition

$p$  Fluctuating pressure at a pressure tap on the structure

$p_{\infty}$  Static pressure in the wind tunnel above the model

$F_x, F_y$  Forces in X, Y direction

$A_R$  Reference Area

$CF_X$  Force coefficient, X direction,  $\frac{F_x}{A_R 0.5\rho U_{\infty}^2}$

$CF_Y$  Force coefficient, Y direction,  $\frac{F_y}{A_R 0.5\rho U_{\infty}^2}$

## 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, overall structural loading, and also wind velocities and gusts in pedestrian areas adjacent to the building. Information on sidewalk-level gustiness allows plaza areas to be protected by design changes before the structure is constructed. Accurate knowledge of the intensity and distribution of the pressures on the structure permits adequate but economical selection of cladding strength to meet selected maximum design winds and overall wind loads for the design of the frame for flexural control.

Modeling of the aerodynamic loading on a structure requires special consideration of flow conditions in order to guarantee 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 equal.

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  $UD/\nu$  be similar for model and prototype. Since  $\nu$ , the kinematic viscosity of air, is identical for both, Reynolds numbers cannot be made precisely equal with reasonable wind velocities. To accomplish this 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 ( $>2 \times 10^4$ ) 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.

## 1.2 The Wind-Tunnel Test

The wind-engineering study is performed on a building or building group modeled at scales ranging from 1:150 to 1:400. The building model

is constructed of clear plastic fastened together with screws. The structure is modeled in detail to provide accurate flow patterns in the wind passing over the building surfaces. The building under test is often located in a surrounding where nearby buildings or terrain may provide beneficial shielding or adverse wind loading. To achieve similarity in wind effects the area surrounding the test building is also modeled. A flow visualization study is first 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 produce pedestrian discomfort.

The test model, equipped with pressure taps (200 to 600 or more), is 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, are rotated 10 or 15 degrees and another set of data recorded for each pressure tap. Normally, 24 or 36 sets of data (360 degrees of turning) are taken; however, when flow visualization or recorded data indicate high pressure regions of small azimuthal extent, data is obtained in smaller azimuthal steps.

Data are recorded, analyzed and processed by an on-line computerized data-acquisition system. Pressure coefficients of several types are calculated by the computer for each reading on each piezometer tap and are printed in tabular form as computer readout. Using wind data applicable to the building site, representative wind velocities are selected for combination with measured pressures on the building model. Integration of test data with wind data results in prediction of peak local wind pressures for design of glass or cladding and may include overall forces and moments on the structure (by floor if desired) for design of

the structural frame. Pressure contours are drawn on the developed building surfaces showing the intensity and distribution of peak wind loads on the building. These results may be used to divide the building into zones where lighter or heavier cladding or glass may be desirable.

Based on the visualization (smoke) tests and on a knowledge of heavy pedestrian use areas, a dozen or more locations may be chosen at the base of the building where wind velocities can be measured to determine the relative comfort or discomfort of pedestrians in plaza areas, near building entrances, near building corners, or on sidewalks.

Usually a reference pedestrian position is also tested 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 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 tunnel used for this investigation is shown in Figure 2. All 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. 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.

A circular area 750 to 2000 ft in radius depending on model scale and characteristics of the surrounding buildings and terrain is modeled in detail. Structures within the modeled region are made from styrofoam and cut to the individual building geometries. They are mounted on the turntable in their proper locations. Significant terrain features are included as needed. The model is mounted on a turntable (Figure 2) near the downwind end of the test section. Any buildings or terrain features which do not fit on the turntable are placed on removable pieces which are placed upwind of the turntable for appropriate wind directions. A plan view of the building and its surroundings is shown in Figure 4. The turntable is calibrated to indicate azimuthal orientation to 0.1 degree.

The region upstream from the modeled area is covered with a randomized roughness constructed using various sized cubes placed on the floor of the wind tunnel. Different roughness sizes may be used for different wind directions. Spires are installed at the test-section entrance to provide a thicker boundary layer than would otherwise be

available. The thicker boundary layer permits a somewhat larger scale model than would otherwise be possible. The spires are approximately triangularly shaped pieces of 1/2 in. thick plywood 6 in. wide at the base and 1 in. wide at the top, extending from the floor to the top of the test section. They are placed so that the broad side intercepts the flow. A barrier approximately 8 in. high is 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 model in the wind tunnel is shown in Figure 5. The wind-tunnel ceiling is 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 or 36 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.

Output from the pressure 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. The results of an experiment 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 is shown in Figure 6. A typical pressure port record was integrated for a number of different time periods to obtain the data shown. 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. Pressure coefficients are defined in Section 4.3.

### 3.3 Velocity

Mean velocity and turbulence intensity profiles are measured upstream of the model 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 4. 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. In most studies 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 the proposed plaza area in terms of the undisturbed environment in the immediate vicinity.

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

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

where  $E$  is the hot-wire output voltage,  $U$  the velocity and  $A$ ,  $B$ , and  $n$  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  $U_{\text{rms}}$  (root-mean-square velocity) was obtained from

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

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

## 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

Velocity and turbulence profiles are shown in Figure 7. Profiles were taken upstream from the model which are characteristic of the boundary layer approaching the model and sometimes at the building site with building removed. The boundary-layer thickness,  $\delta$ , is shown in Figure 7. The corresponding prototype value of  $\delta$  for this study is also shown in the figure. This value was established as a reasonable height for this study. The mean velocity profile approaching the modeled area has the form

$$\frac{U}{U_{\infty}} = \left(\frac{z}{\delta}\right)^n.$$

The exponent  $n$  for the approach flow established for this study is shown in Figure 7.

Profiles of longitudinal turbulence intensity in the flow approaching the modeled area are shown in Figure 7. The turbulence intensities are appropriate for the approach mean velocity profile selected. For the velocity profiles, turbulence intensity is defined



as the root-mean-square about the mean of the longitudinal velocity fluctuations divided by the local mean velocity  $U$ ,

$$Tu = \frac{U_{rms}}{U} .$$

Velocity data obtained at each of the pedestrian measurement locations shown in Figure 4 are listed in Table 2 as mean velocity  $U/U_{\infty}$ , turbulence intensity  $U_{rms}/U_{\infty}$ , and largest effective gust

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

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 local airport. Table 3 shows wind frequency by direction and magnitude obtained from summaries published by the National Weather Service. These data, usually obtained at an elevation of about 30-40 ft, 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). These results are plotted in Figure 9.

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 (4) and Melbourne (5). The Beaufort scale (from ref. 4), 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 5 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). Implications of the 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.

### 4.3 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

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

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

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

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

If the pressure fluctuations followed a 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. 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 coefficients 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 the edge of the boundary layer. 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 can be made from statistical analysis of extreme wind data or selected from wind maps contained in the proposed wind loading code ANSI A58.1 of the American National Standards Institute (6). 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 (7).

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. 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 and are listed as peak pressures in that table. The maximum psf load given at each tap location is the absolute value of the maximum value found in the tests, irrespective of its algebraic sign. For ease in visualizing the loads on the structure, contours of equal peak pressures for cladding load shown in Table 6 have been plotted on developed elevation

views of the structure, Figure 10. For control of water infiltration from outside to inside, the largest positive (inward-acting) pressure at each tap location is tabulated in Table 6.

For glass design pressures, a glass load factor is used to account for the different duration between measured peak pressures and the one minute loading commonly used in glass design charts. The design pressure used for glass is normally less than the peak pressures used for cladding design because of the static fatigue property of glass which can withstand higher pressures for short duration loads than for long duration loads. Recent research (8) 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-pressure values, then a glass strength associated with this duration load should be used. Because glass design charts are normally based on some alternate load duration--usually 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. Current glass selection charts showing glass strength as a function of load duration (9) and older references (10) indicate the following load reduction factors:

	ref 9	ref 10
annealed float	0.80	0.81
heat strengthened	0.94	
tempered	0.97	0.98

Loadings appropriate for glass design can be computed by multiplying the peak-pressure loads of Table 6 by these load factors.

#### 4.4 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 with Z axis vertical may be computed for all 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 which are useful in designing the structural framing of the proposed building may be obtained from use of these coefficients.

Force coefficients were computed for each floor for each wind direction using the equations shown below.

$$CF_X = \frac{F_X}{A_R 0.5 \rho U_\infty^2} \quad CF_Y = \frac{F_Y}{A_R 0.5 \rho U_\infty^2}$$

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 using the mean pressure coefficient at each pressure tap.  $A_R$  represents a constant reference area for nondimensionalization of the forces and moments.

The total forces acting on the full-scale building for each floor and wind direction were computed by multiplying the above coefficients by the appropriate full-scale reference area, by the reference pressure of Table 5, and by a gust load factor selected for an appropriate wind gust duration. The gust load factor, shown in Table 5, was selected to increase the loads from an hourly mean load to that of a gust whose duration would be sufficient for its effect to be fully felt by the structure. A table of gust load factors for various gust durations is

incorporated in Table 5 so that force and moment data of Table 7 may be adjusted to a different load duration if desired.

The forces obtained at each floor were used to obtain load, shear, and moment diagrams for the building for each wind direction. The shear diagram, in kips, was obtained by algebraic sum of all forces in each coordinate direction acting above the floor of interest. The load diagram, in psf, was obtained by dividing the shear values by their contributing areas (listed in Table 7). The moment diagram, in 1000 ft-kips, was obtained by integration of the shear values so that the moment due to forces acting above the floor level of interest was calculated. The sign of the moment was established by the right-hand rule about an X', Y' axis through the floor of interest. Moments about the Z axis were calculated by considering the displacement of forces in the X and Y directions from the Z axis shown in Figure 3. Load, shear, and moment diagrams are shown in Figure 11 for several wind directions.



## 5. DISCUSSION

### 5.1 Flow Visualization

Flow patterns identified with smoke did not show characteristics indicative of exceedingly high pressures. Some evidence of vortex formation about the angled corners near the top of the tower were observed; however, these vortices were not well developed. Flow separation from building corners indicated that the largest pressures would likely be near angled corners at the top of the building and on the corner diagonals of the tower. The building is protected from high winds near its base by surrounding buildings, a factor which should result in moderate loads low on the building. Winds in pedestrian areas about the base of the building appeared to be moderate with the largest wind speeds on the sidewalk on Grant Street directly in front of the tower. This wind speed was less than that observed on Grant Street at the base of the U.S. Steel Tower.

### 5.2 Pedestrian Velocities

Figure 4 shows the 16 pedestrian locations selected for study. Location 1 was selected as a reference location which should be reasonably undisturbed by presence of the new tower for most wind directions. This reference location was selected because it is known as a windy location. Table 2 and Figure 8 show that the largest values of mean velocity were between 50 and 80 percent of the velocity  $U_{\infty}$  at the edge of the boundary layer measured at reference location 1 for 7 wind directions. No positions around the new tower showed mean velocities above about 47 percent of  $U_{\infty}$  which is about what would be expected in an open-country environment.

The largest values of fluctuating velocity,  $U_{rms}$ , were measured at locations 1 and 2 near the U.S. Steel Tower with values ranging from 20 to 23 percent of  $U_{\infty}$  for several wind directions at each location. Fluctuating velocities about the new tower typically ranged from about 8 to 15 percent of  $U_{\infty}$ ; an open-country environment would experience about 10-12 percent of  $U_{\infty}$ . The largest values of peak gust, represented by the mean plus three rms as discussed in section 4.2, were obtained at locations 1 and 2 with values ranging from 100 to 134 percent of  $U_{\infty}$ . The largest value at a location near the new tower was 101 percent of  $U_{\infty}$  at location 11 for a wind azimuth of 68 degrees. An open-country environment might expect a peak gust of 80-90 percent of  $U_{\infty}$ .

Velocity data of Table 2 integrated with local wind data is shown in Figure 9. Based on the data of this figure, locations 1 and 2 will experience the largest percentage of time when winds will be uncomfortable. These locations exceed the comfort criteria line for walking 10 to 30 percent of the time for mean velocity and 6-8 percent of the time for peak gusts. All other points measured showed that the comfort criteria for walking for mean velocity or peak gusts would be exceeded less than 1 percent of the time. Several locations exceed the short-exposure criteria line for mean velocity or gusts more than 10 percent of the time: 1, 2, 5, 7, 12, and 16.

The results of the pedestrian wind velocity analysis showed that the environment immediately around the new U.S. Steel Grant Street building will be generally acceptable with uncomfortable winds limited to reasonably small percentages of time. The environment should be significantly better than locations 1 and 2 near the existing U.S. Steel building.

### 5.3 Pressures

Table 6 shows the largest pressure coefficients and corresponding loads measured on the building for each pressure tap location. Data listed as Configuration A represents the basic data set obtained at 36 wind directions; Configuration B represents data obtained at selected taps for 2 degree increments in wind azimuth to insure that the largest peak values were selected. The largest peak pressure coefficients measured on the building were -2.98 at tap 1640 on a corner diagonal of the tower just above the lower building measured at a wind azimuth of 252 and -2.82 at tap 1928 on the roof parapet of the tower at a wind azimuth of 4 degrees. These pressure coefficients correspond to peak cladding loads of 69 and 65 psf using the 50-yr recurrence wind reference pressure calculated in Table 5.

Figure 10 shows contours of peak pressure loads listed in Table 6. Most cladding pressures are in the 30 to 50 psf range.

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FIGURES

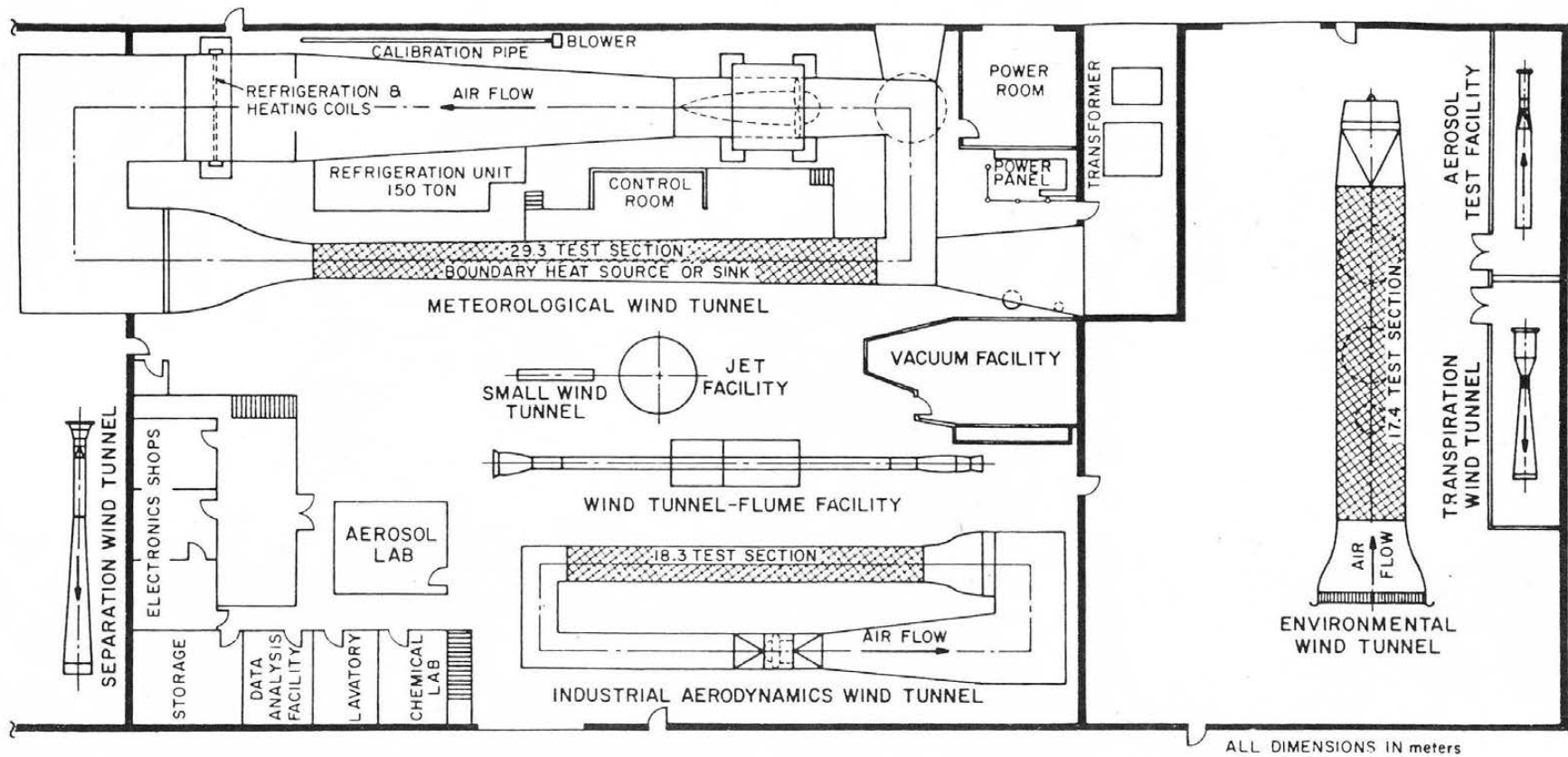
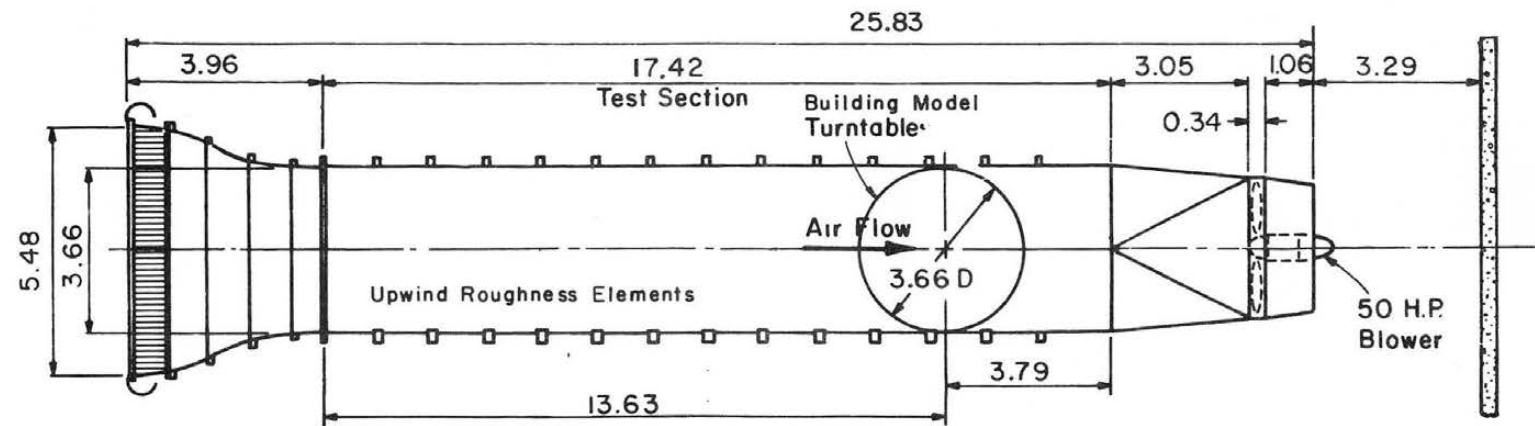
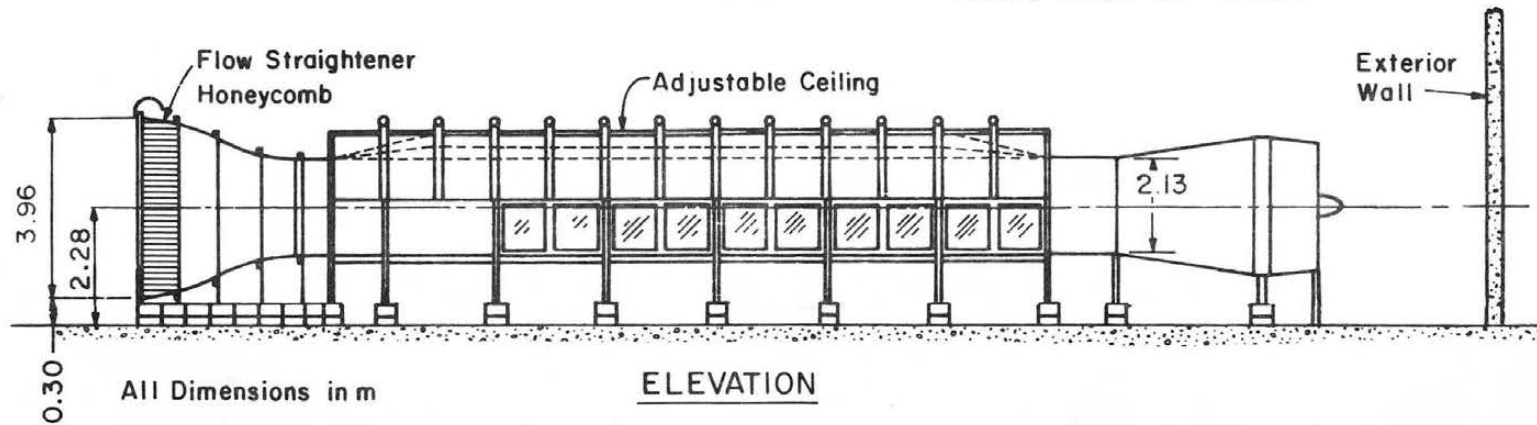


FIGURE 1-FLUID DYNAMICS AND DIFFUSION LABORATORY  
 COLORADO STATE UNIVERSITY



PLAN

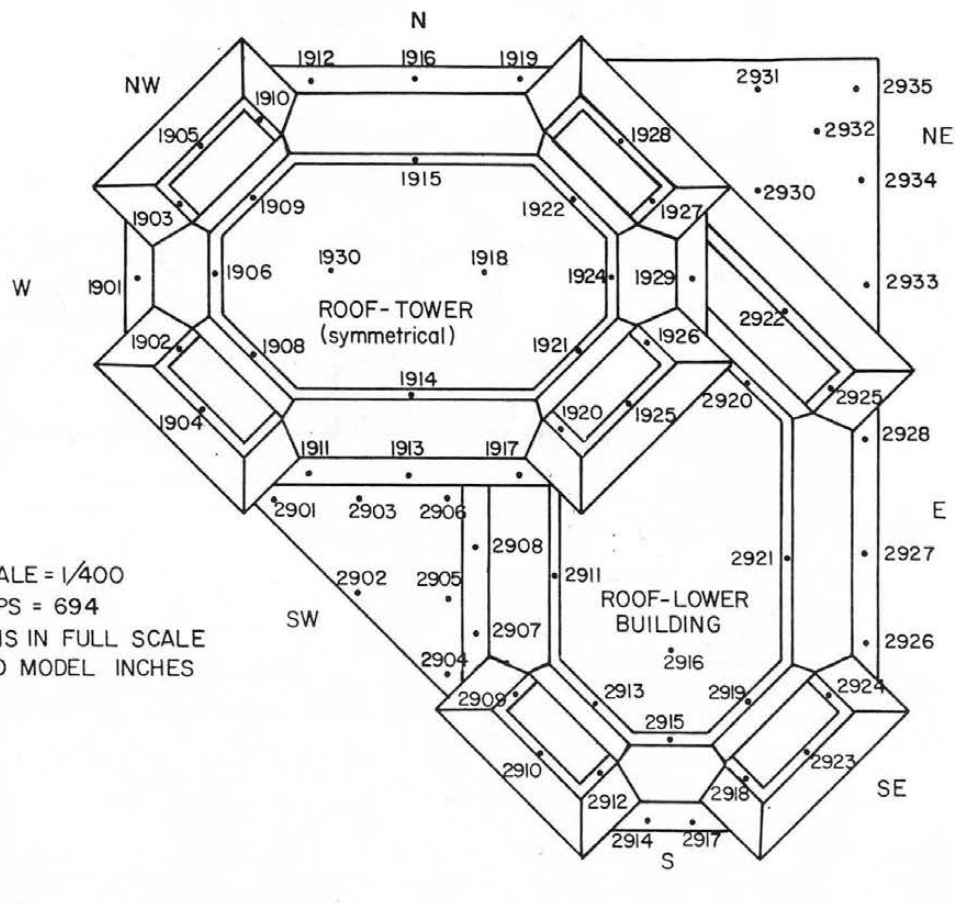
Velocity Range: 0.3 - 11 m/s



ELEVATION

## ENVIRONMENTAL WIND TUNNEL

Figure 2 - Wind Tunnel Configuration



MODEL SCALE = 1/400  
 TOTAL TAPS = 694  
 DIMENSIONS IN FULL SCALE  
 FEET AND MODEL INCHES

Figure 3a. Pressure Tap Locations



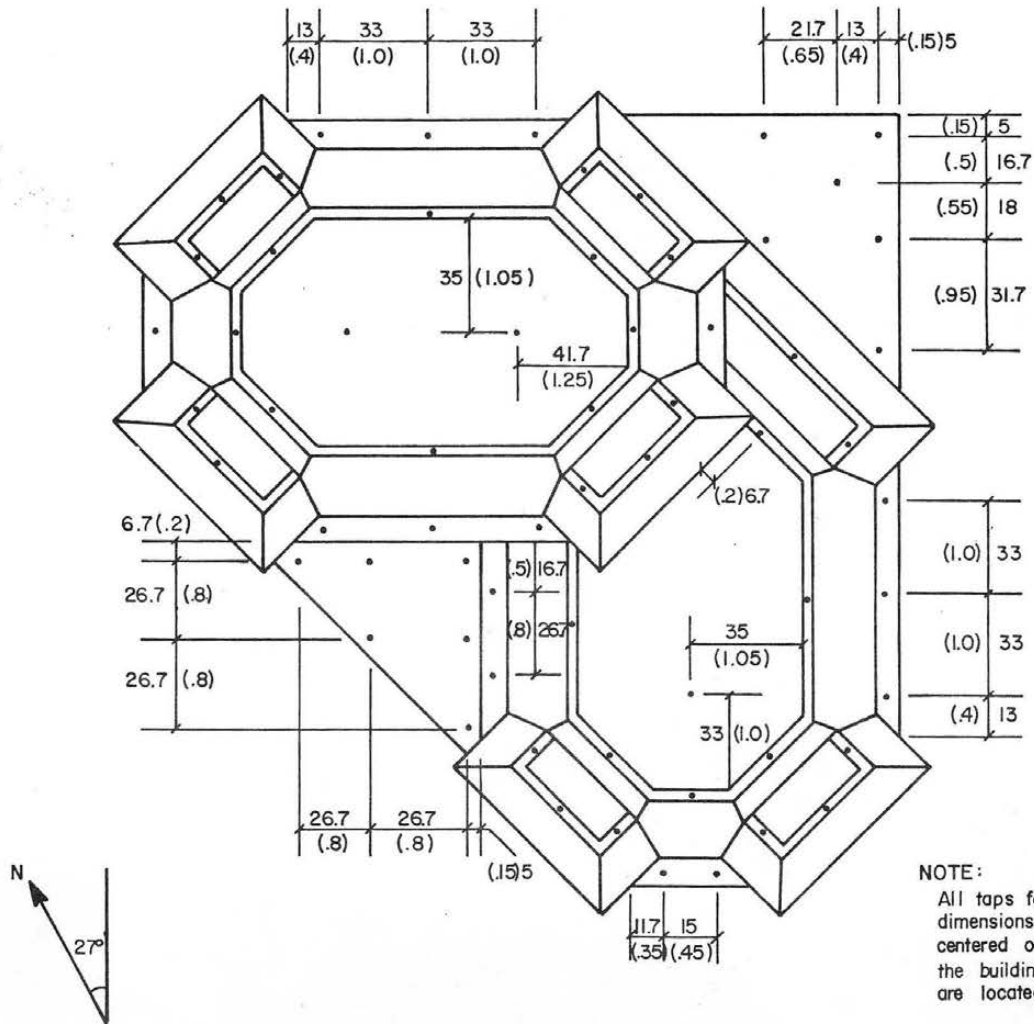


Figure 3b. Pressure Tap Locations

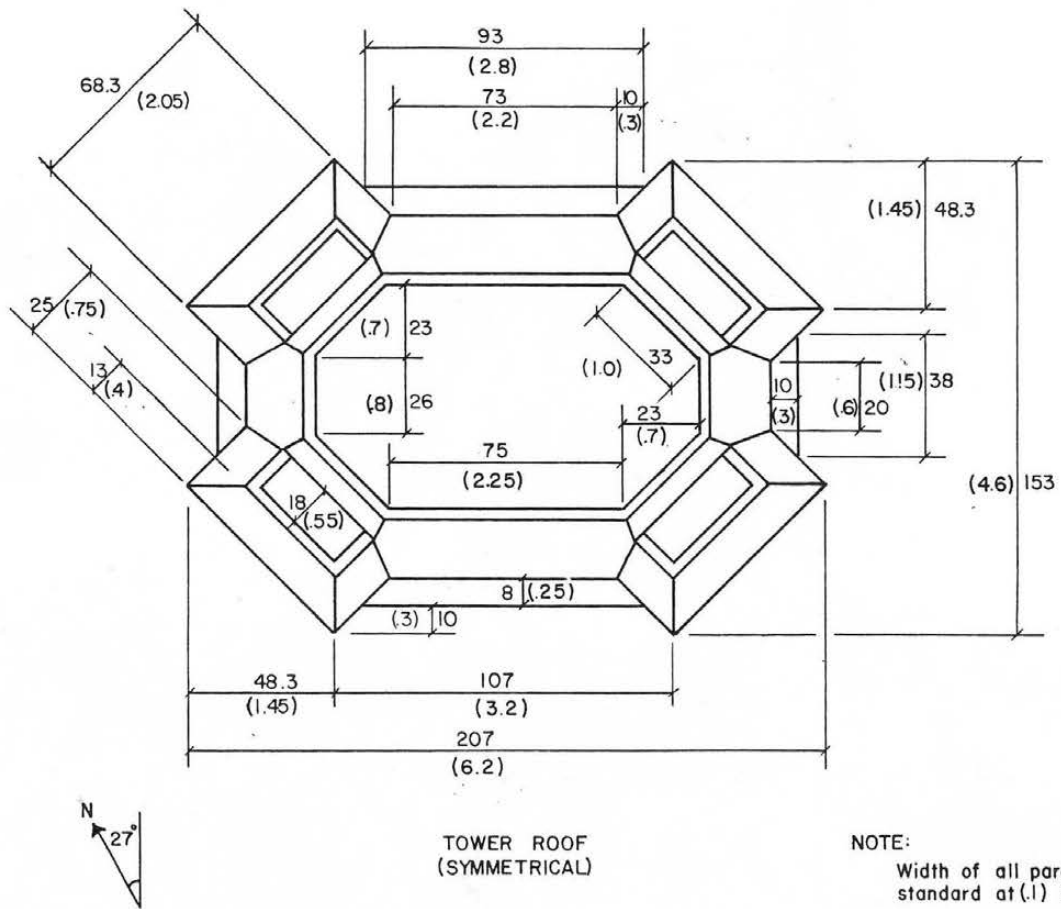


Figure 3c. Pressure Tap Locations

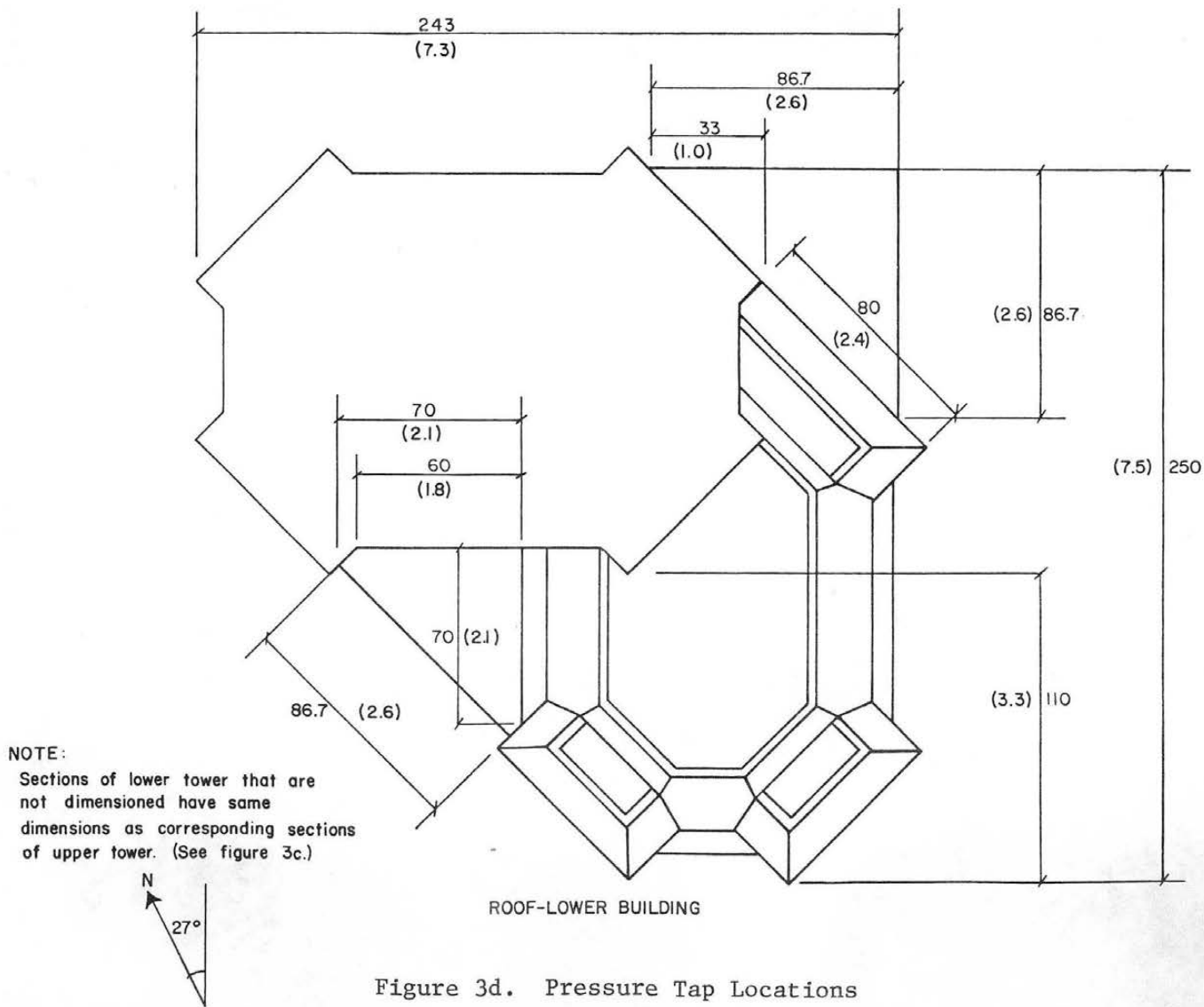


Figure 3d. Pressure Tap Locations

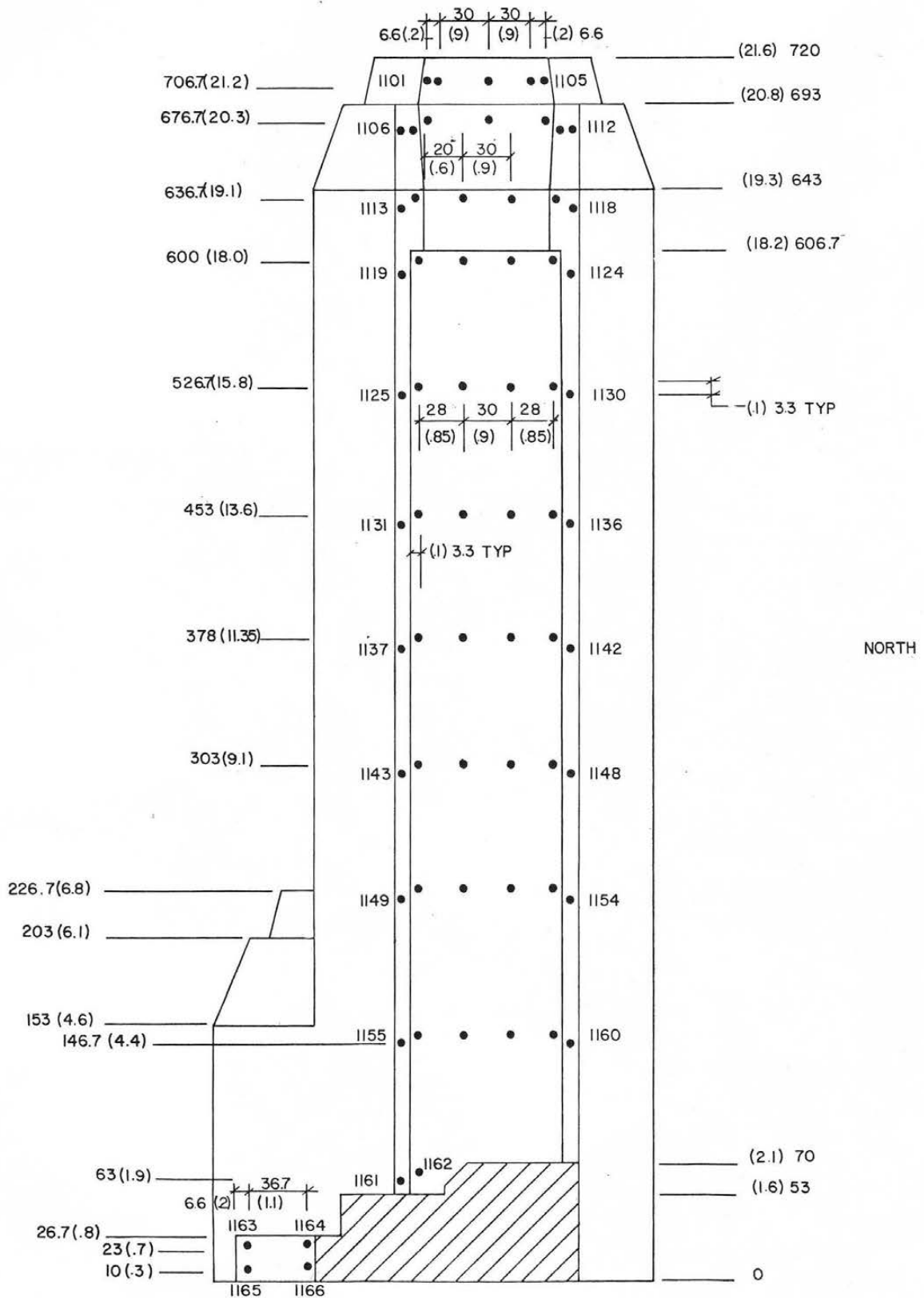


Figure 3e. Pressure Tap Locations

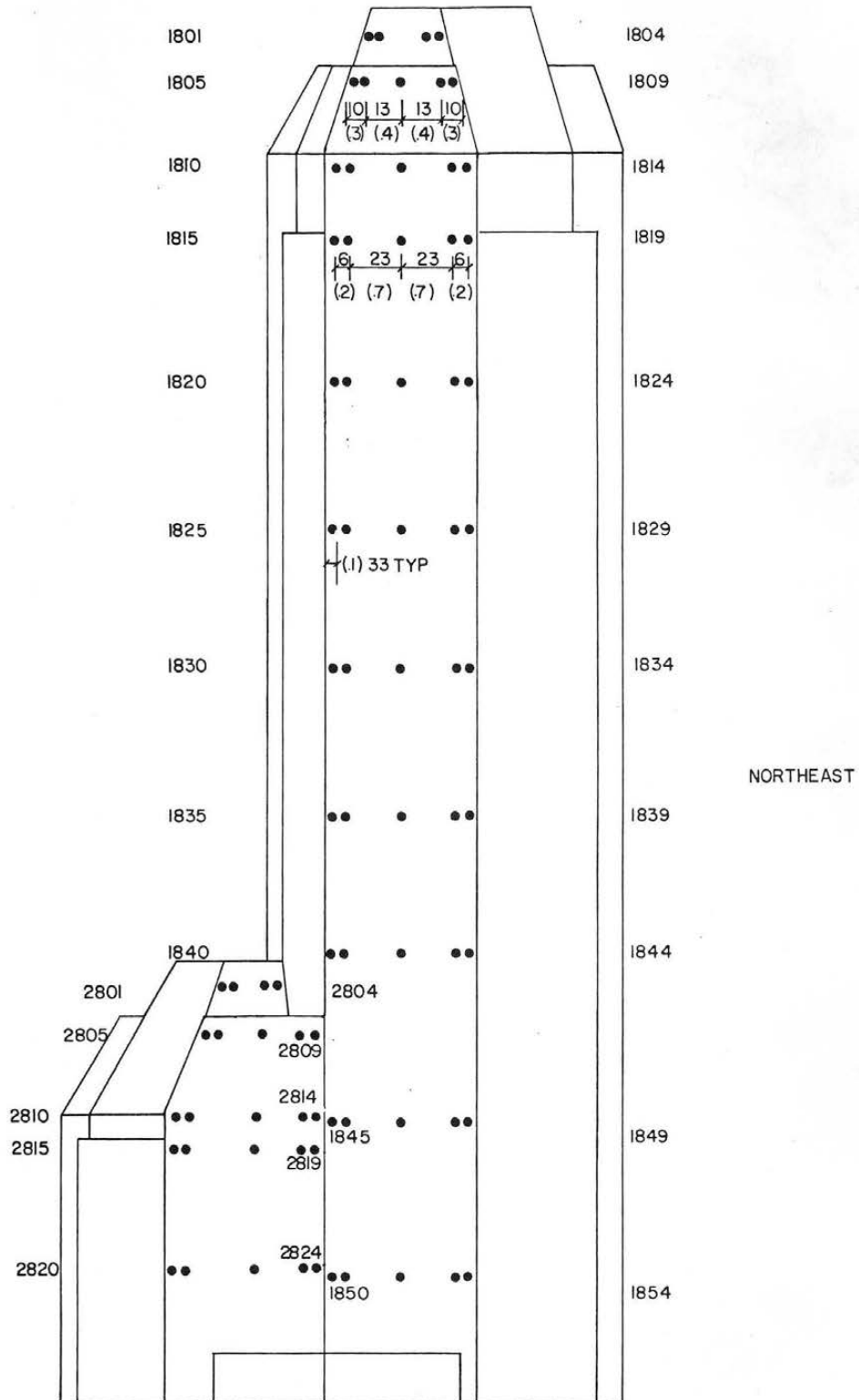


Figure 3f. Pressure Tap Locations

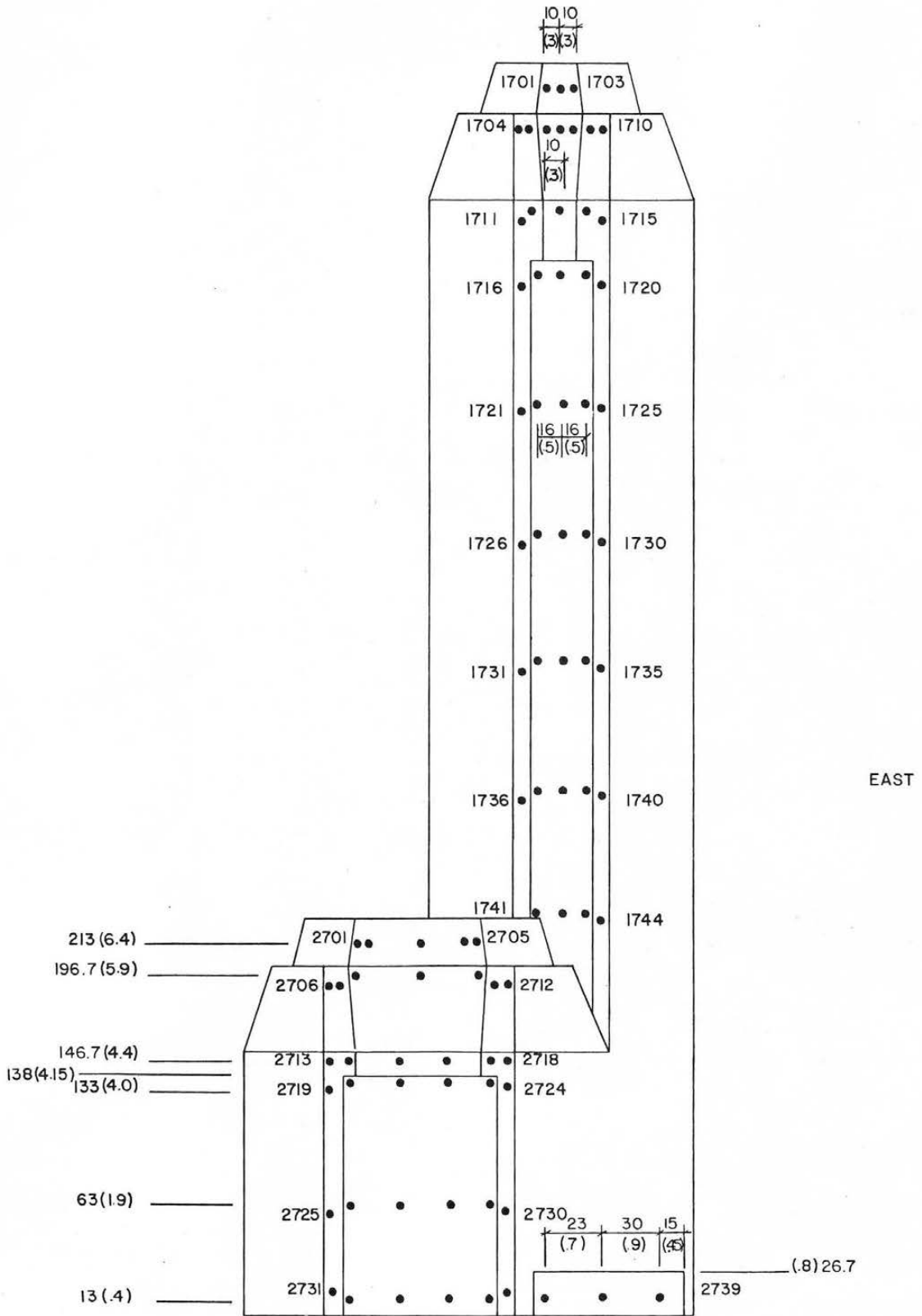


Figure 3g. Pressure Tap Locations

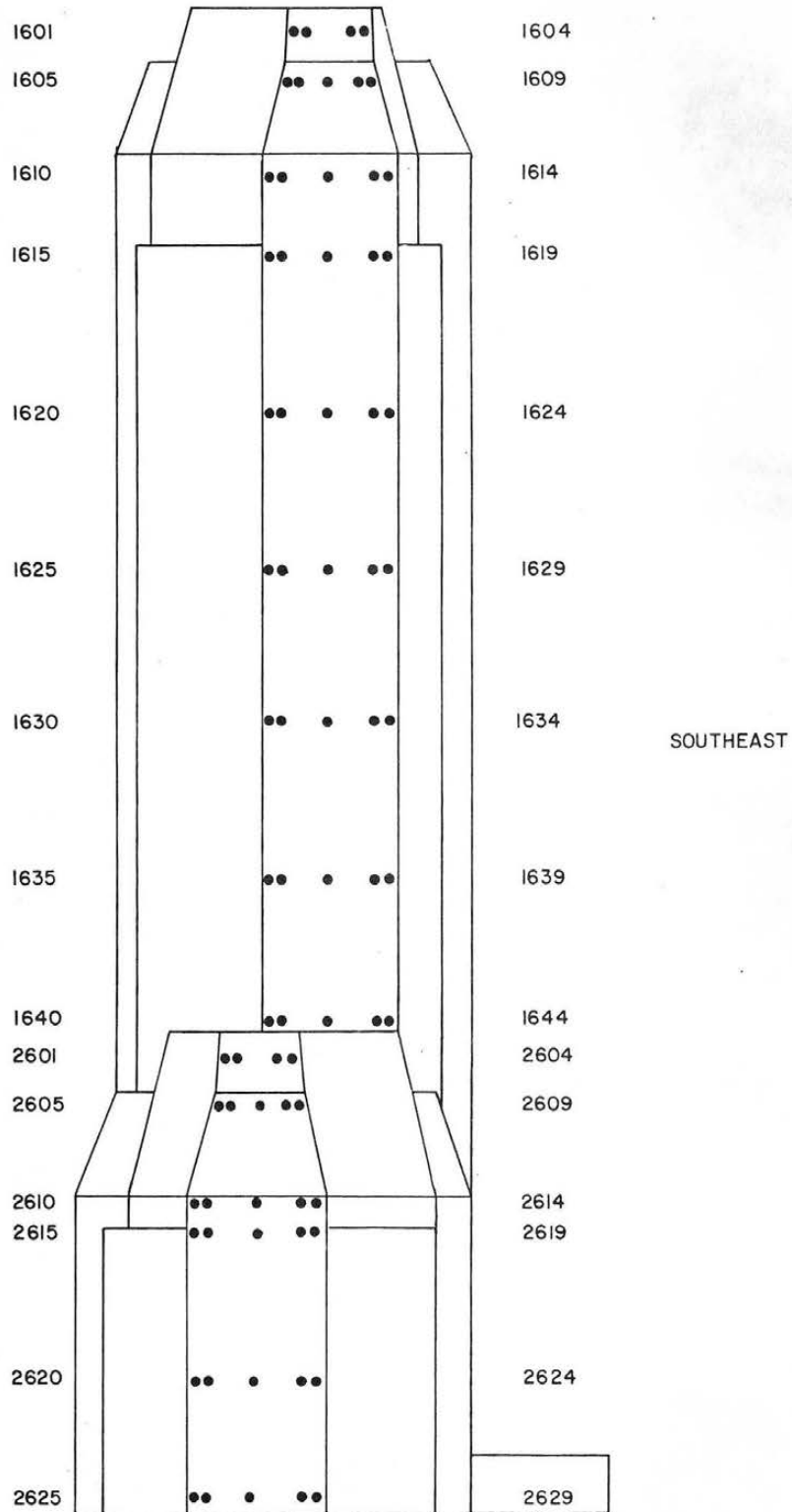


Figure 3h. Pressure Tap Locations

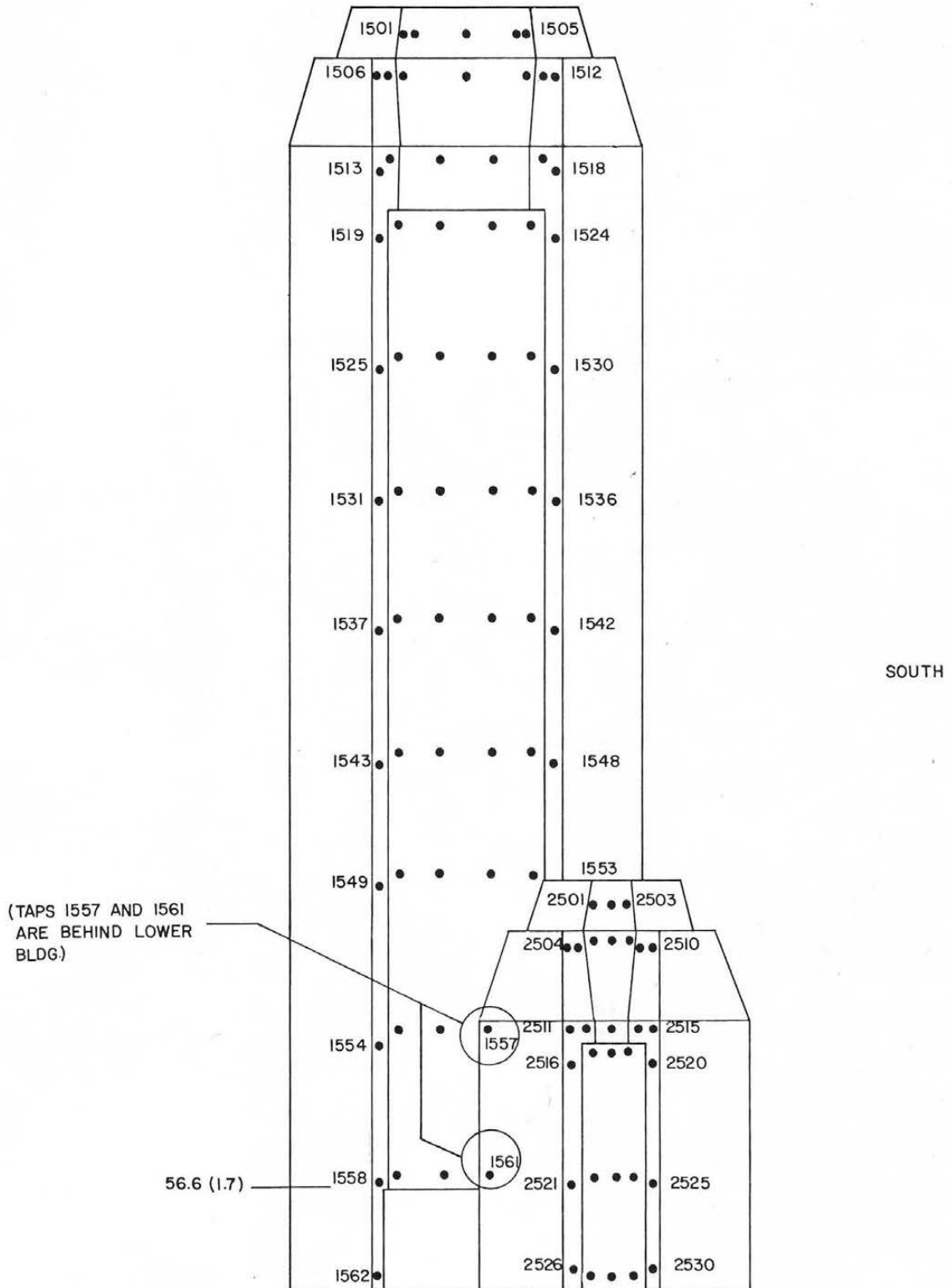


Figure 3i. Pressure Tap Locations



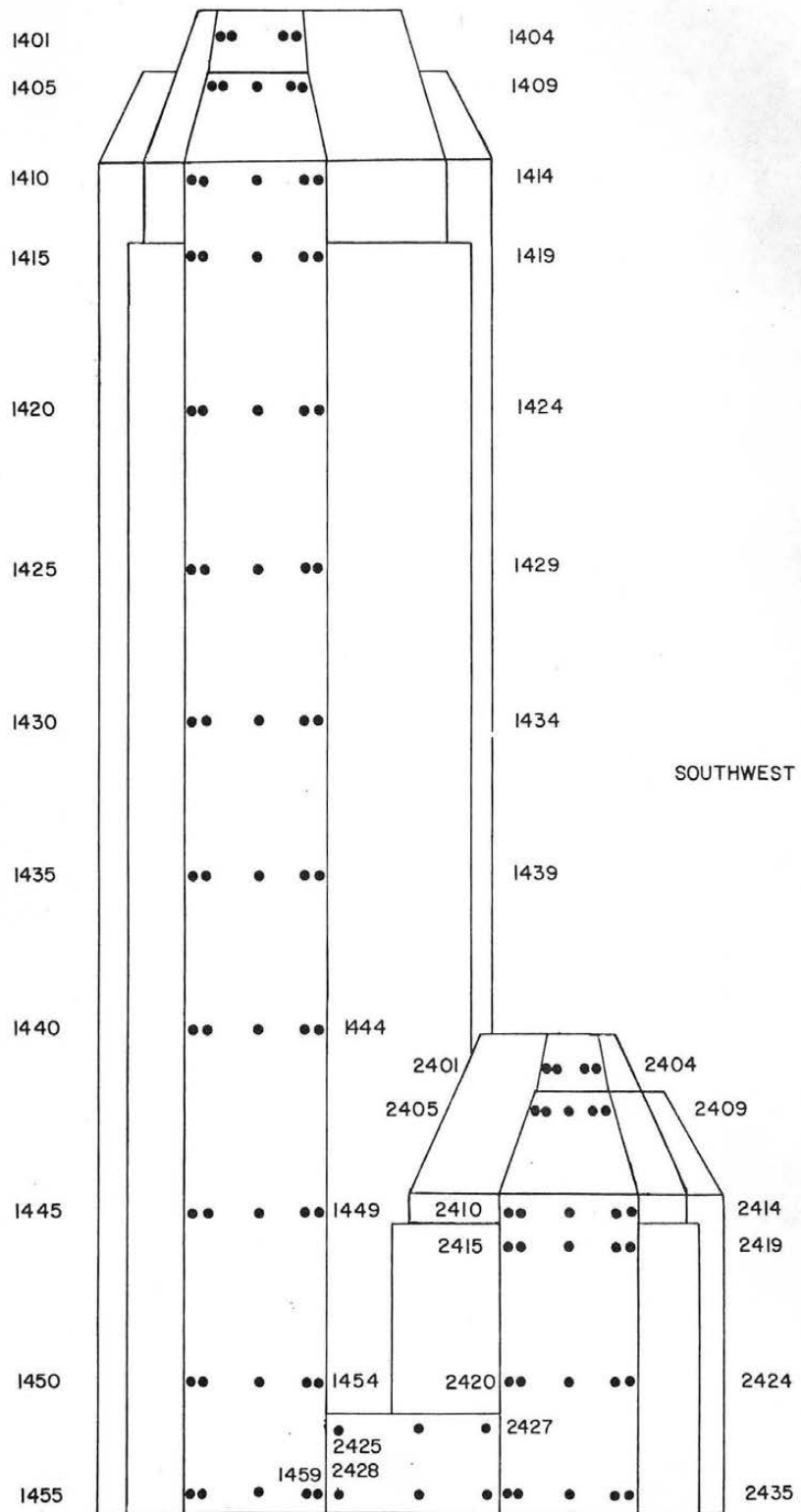


Figure 3j. Pressure Tap Locations

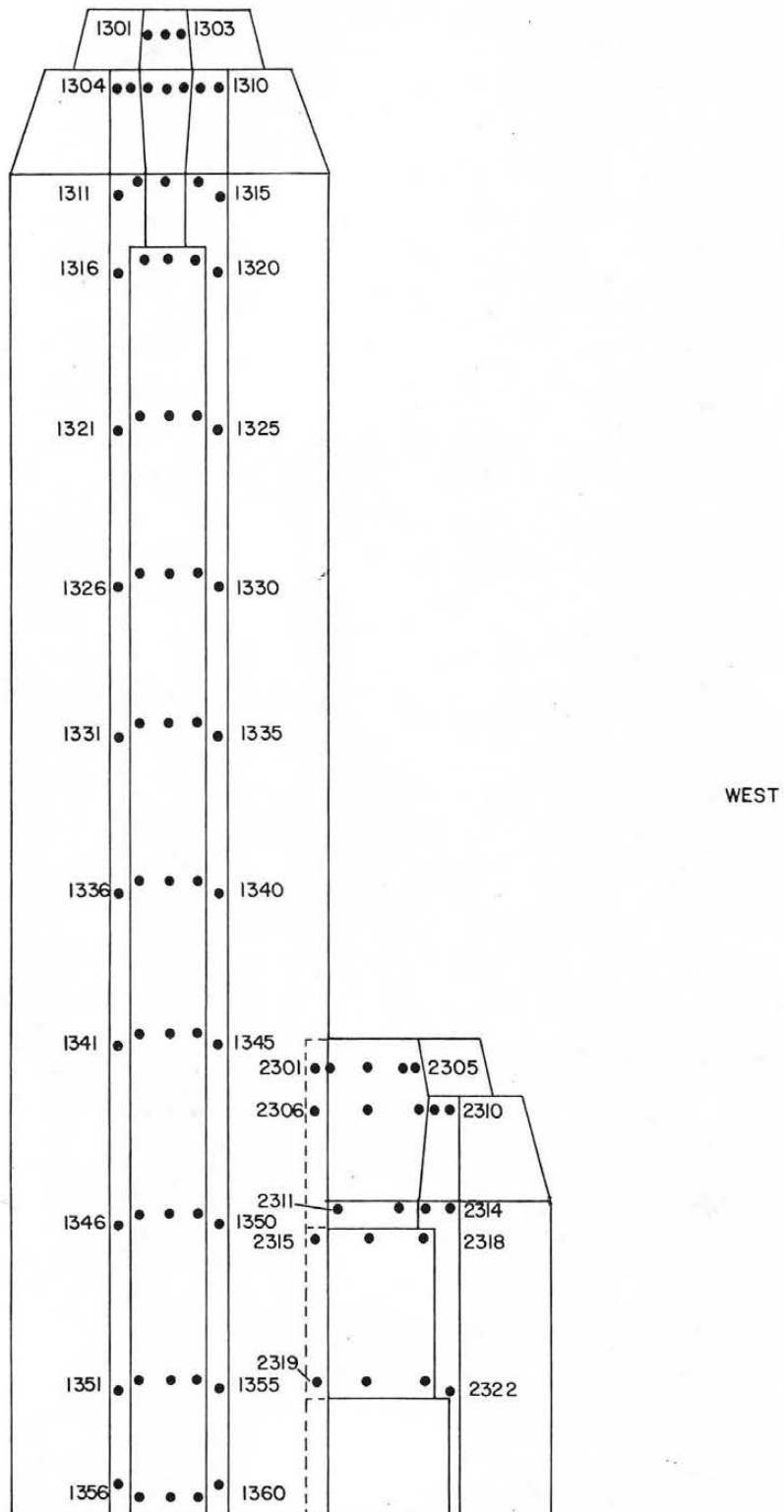


Figure 3k. Pressure Tap Locations

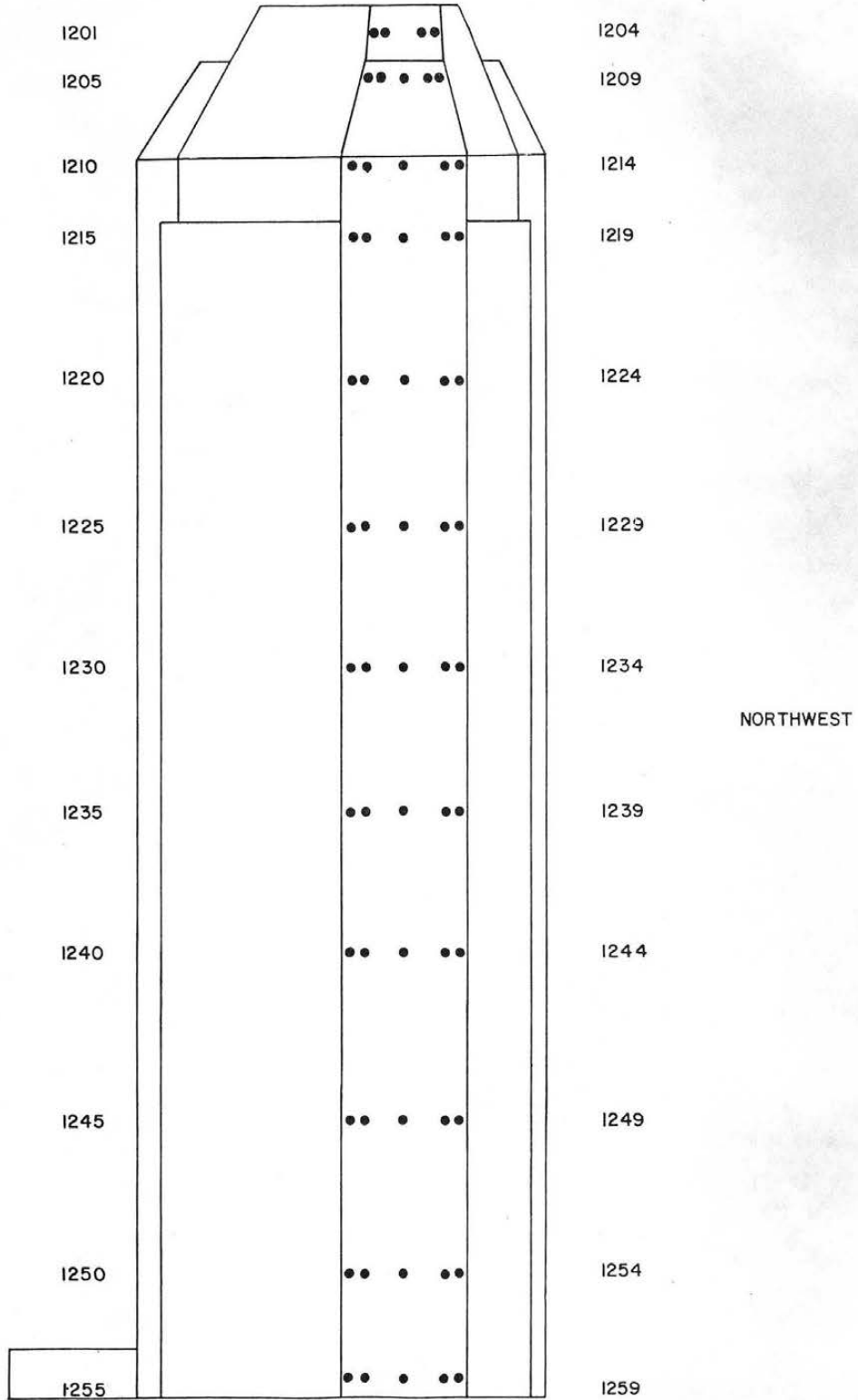


Figure 31. Pressure Tap Locations

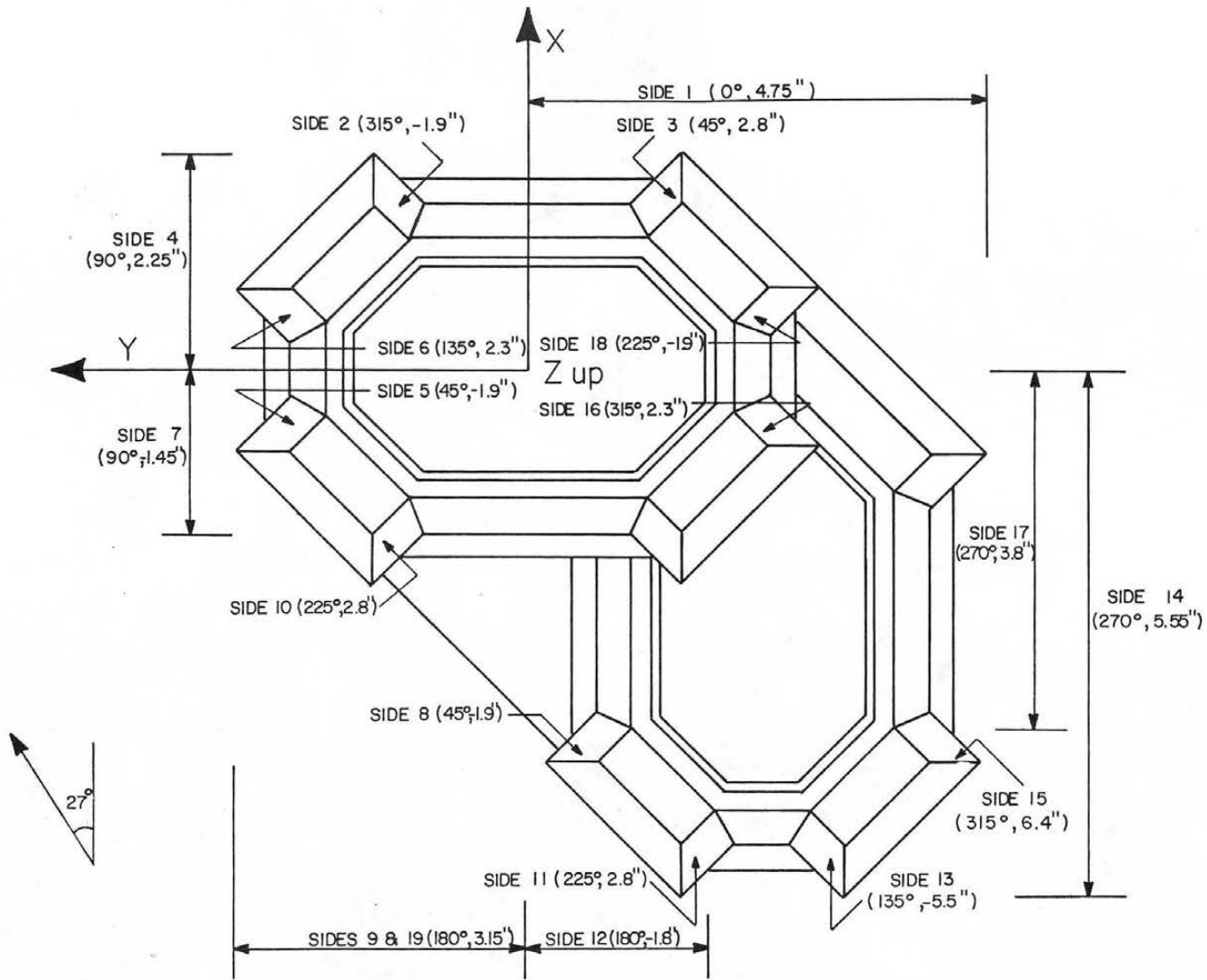


Figure 3m. Force and Moment Coordinate System

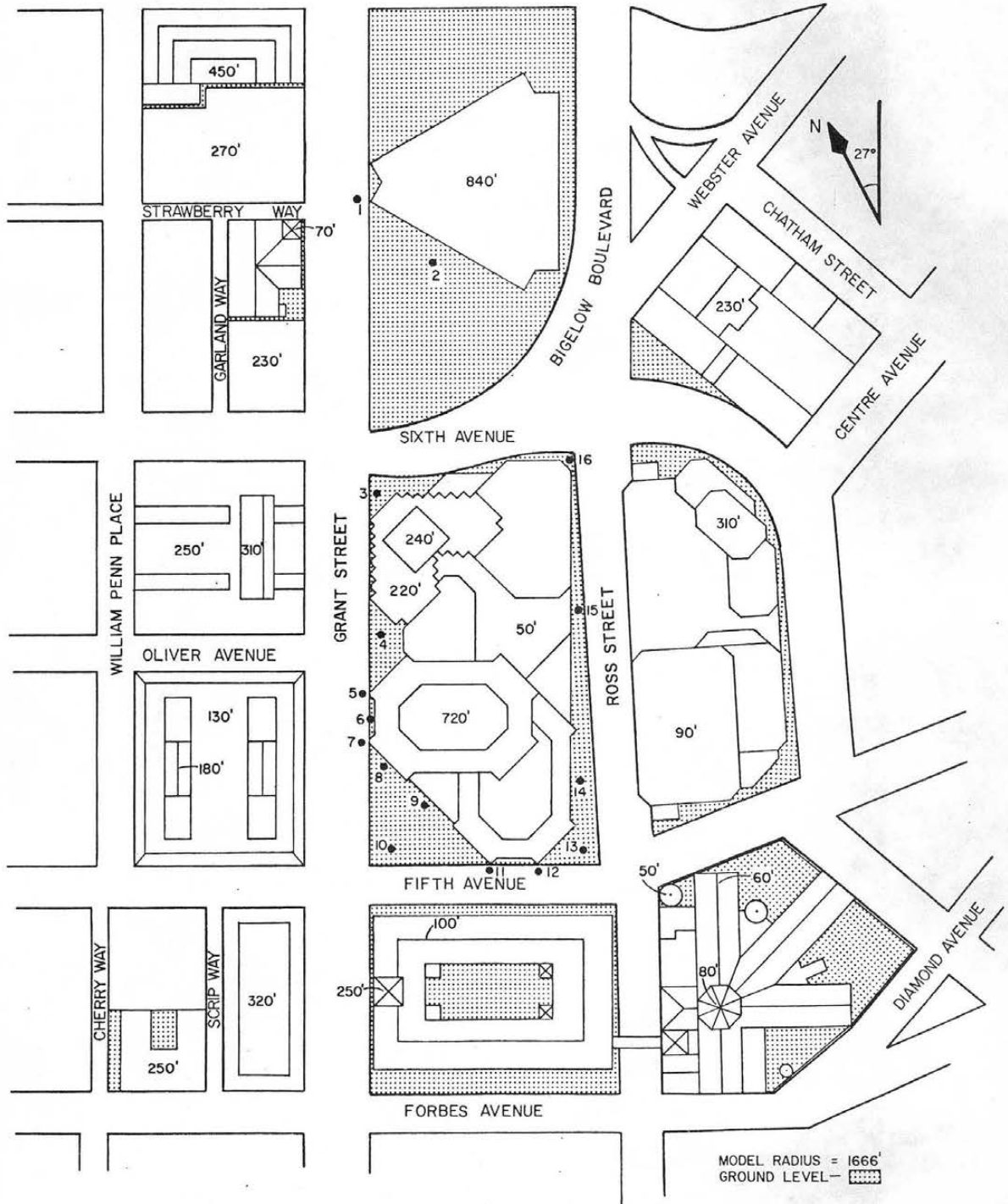


Figure 4. Building Location and Pedestrian Wind Velocity Measuring Positions

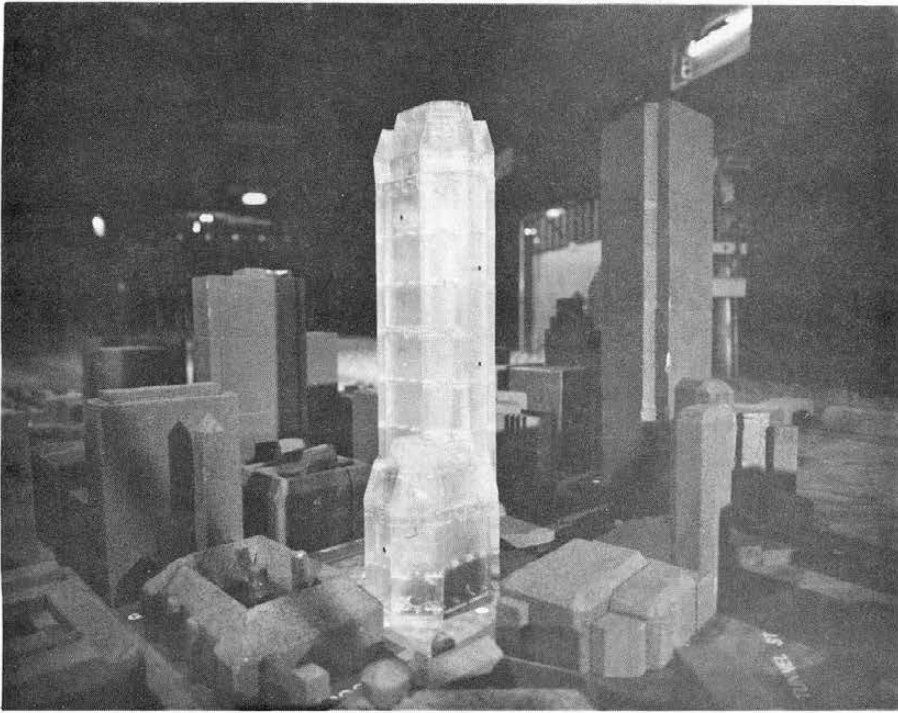


Figure 5. Completed Model in Wind Tunnel

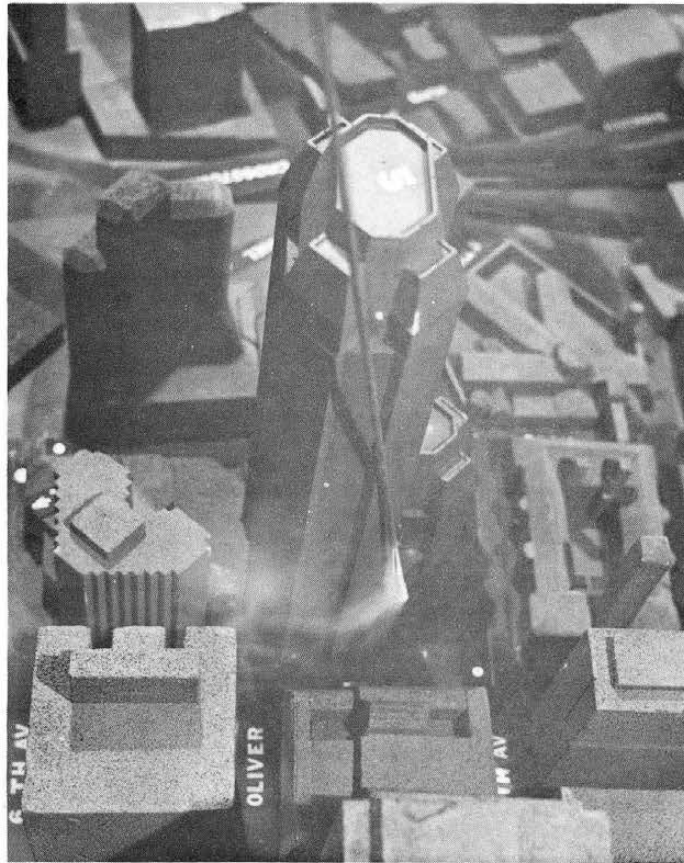
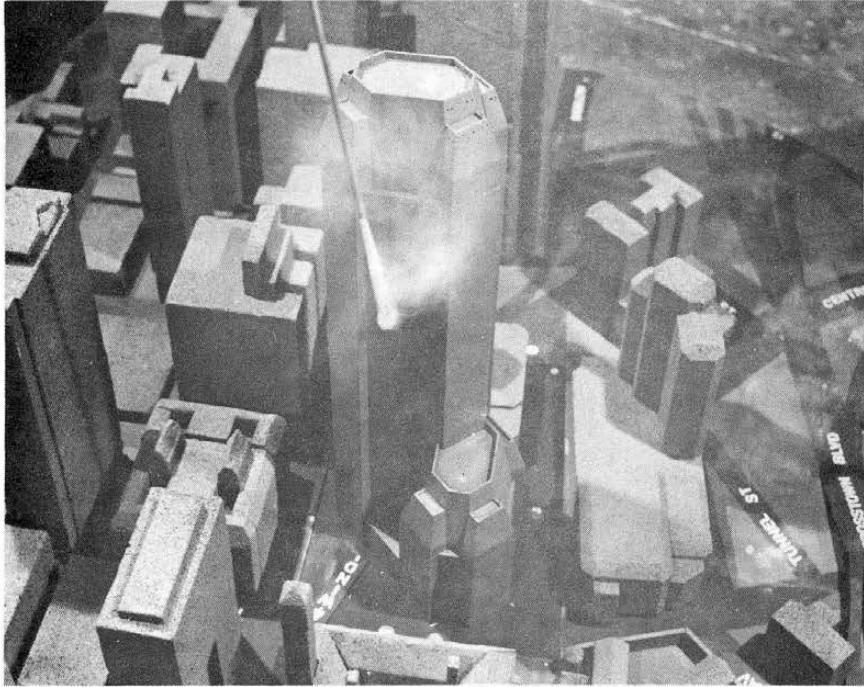


Figure 5. Completed Model in Wind Tunnel

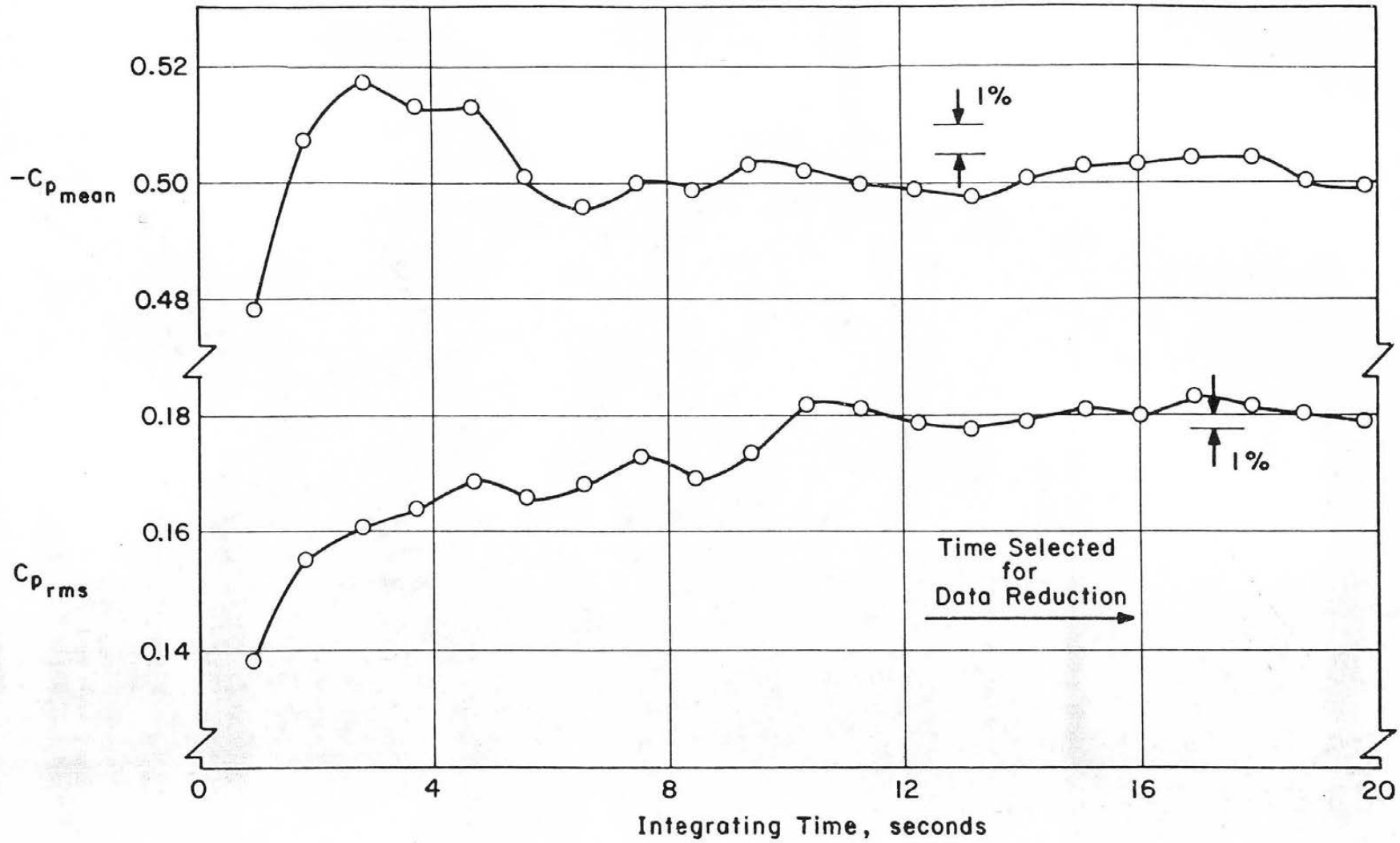


Figure 6 - Data Sampling Time Verification



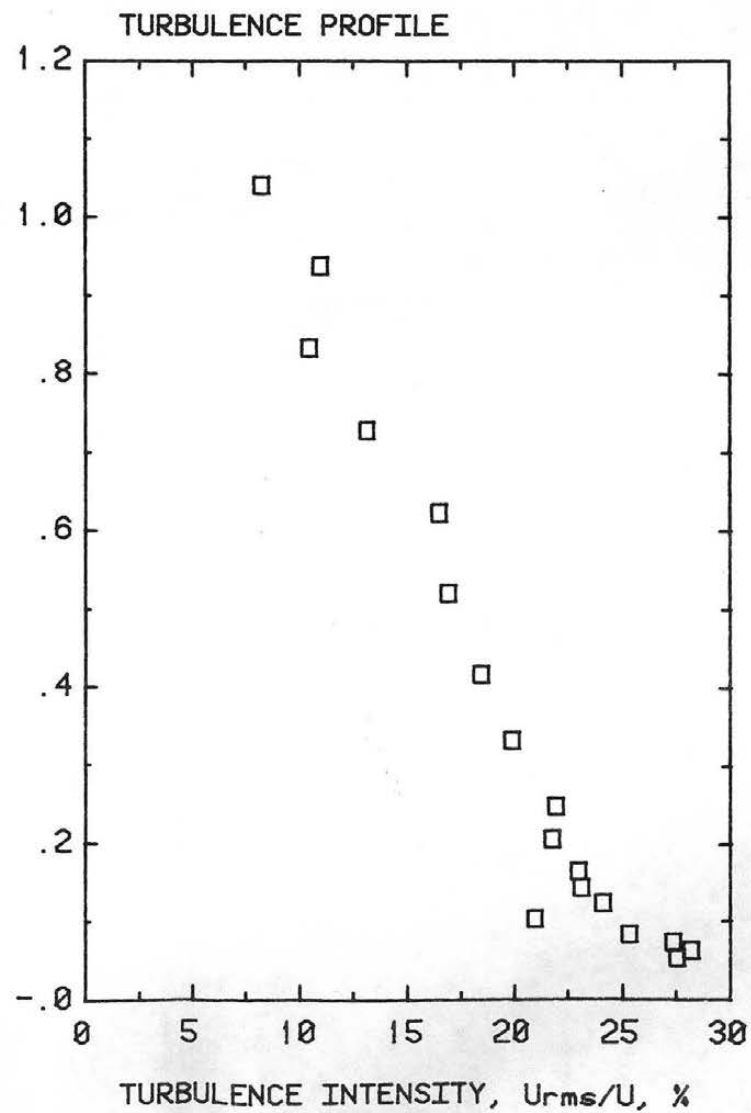
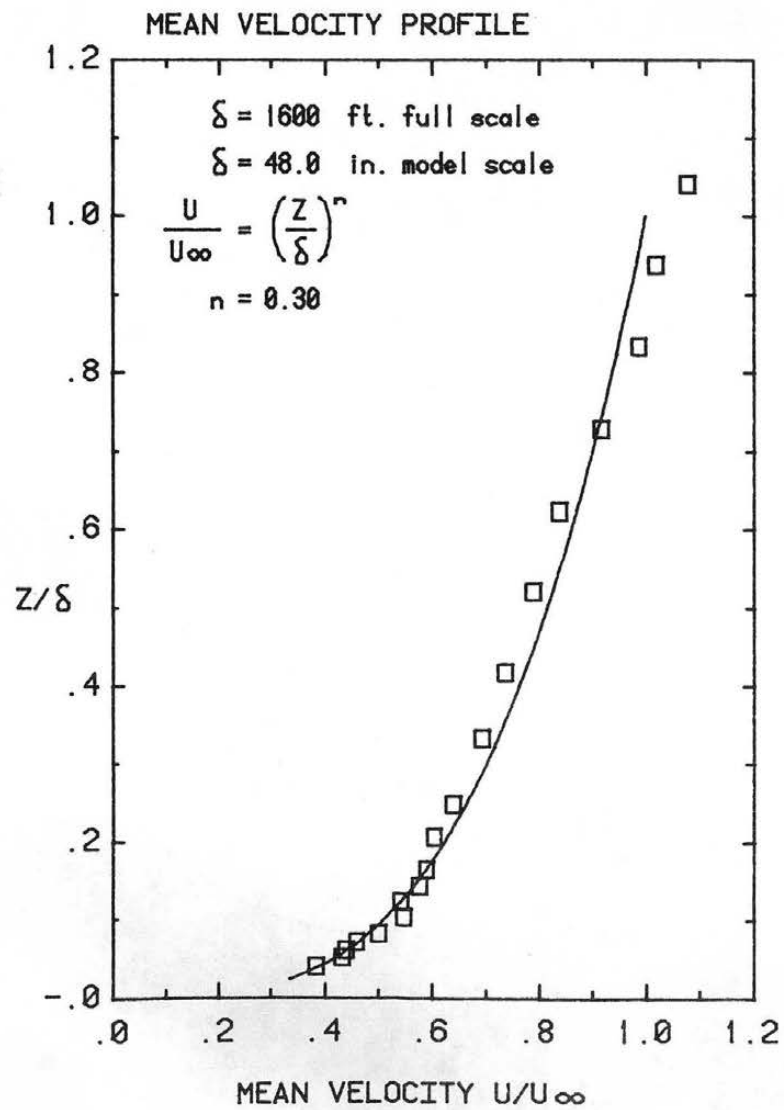


Figure 7. Mean Velocity and Turbulence Profiles Approaching the Model.

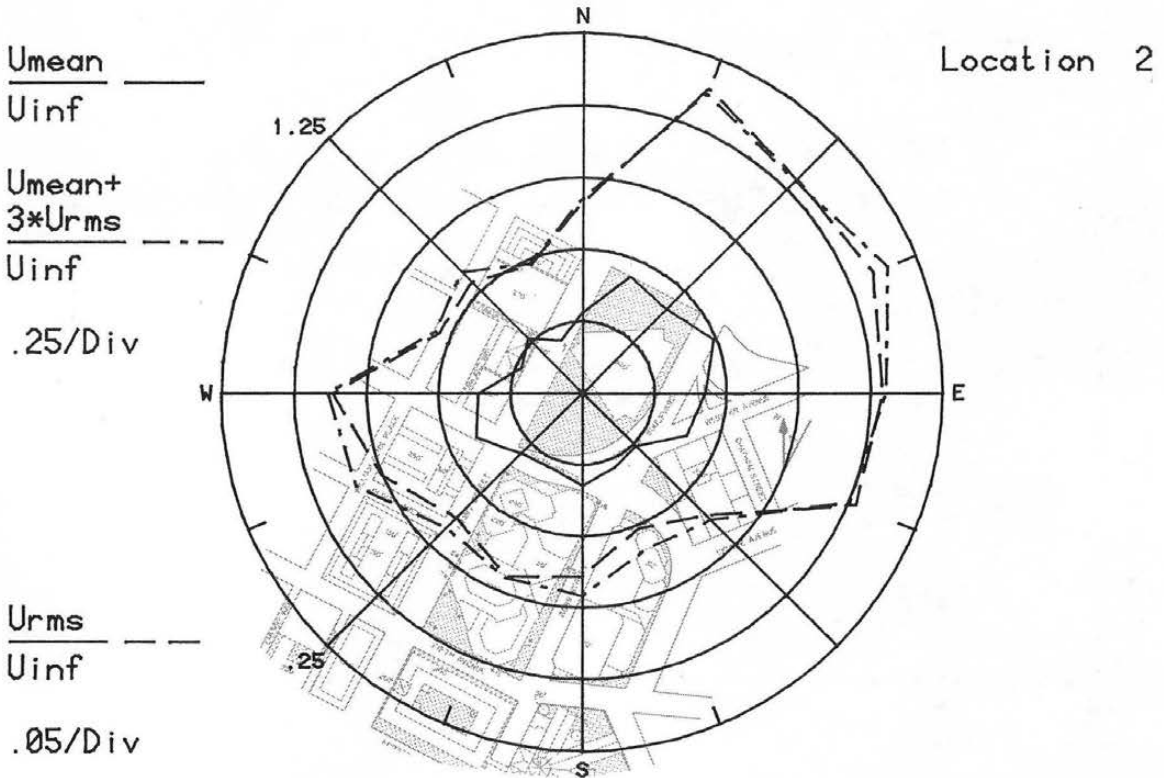
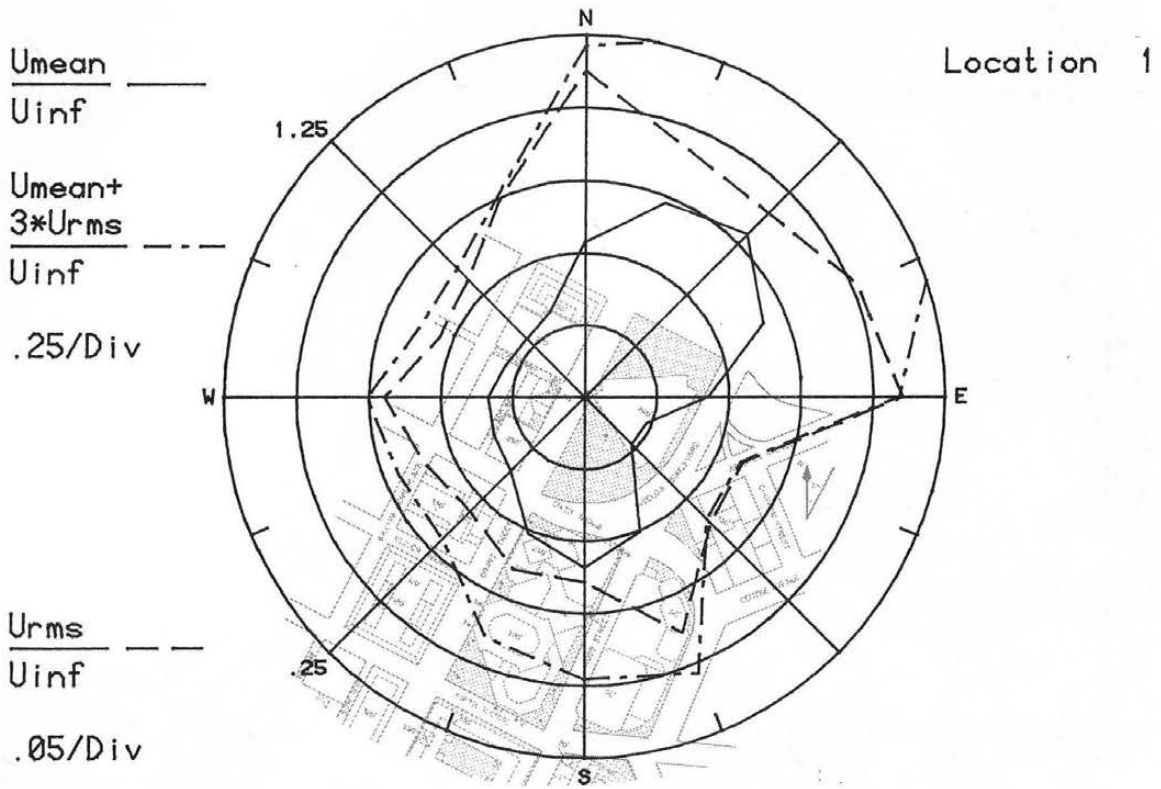


Figure 8a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2

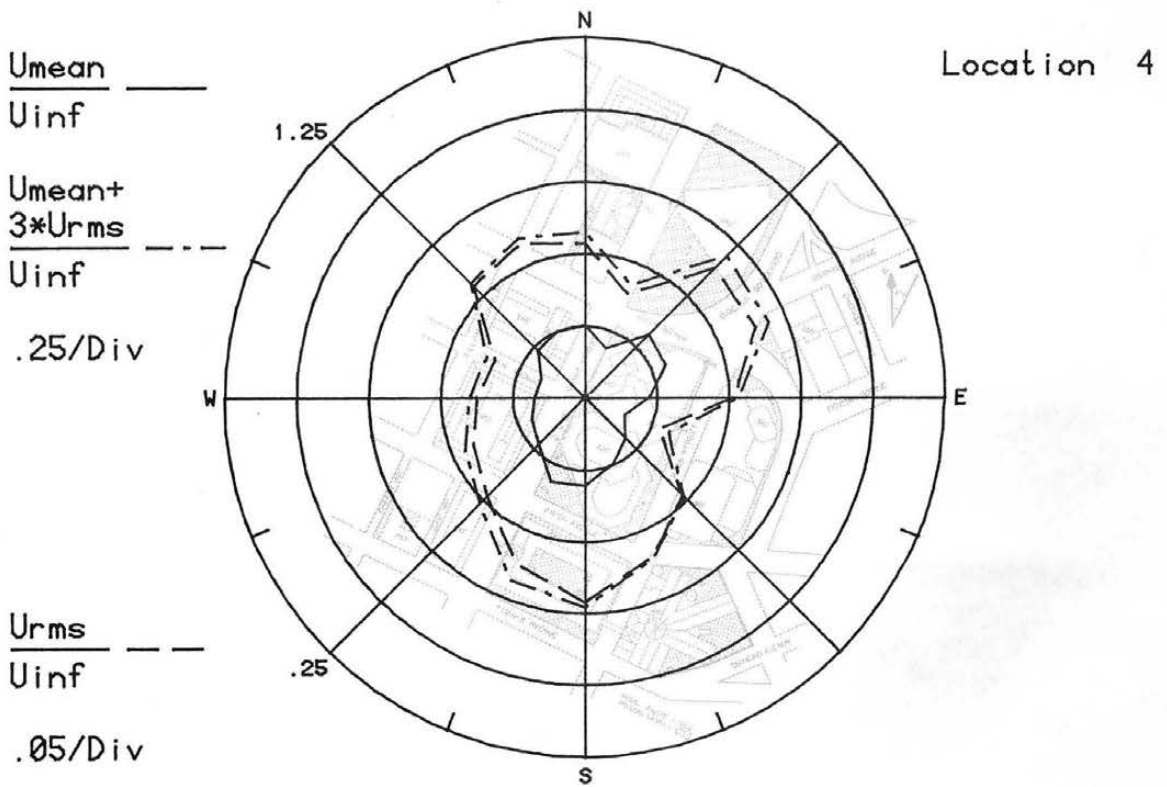
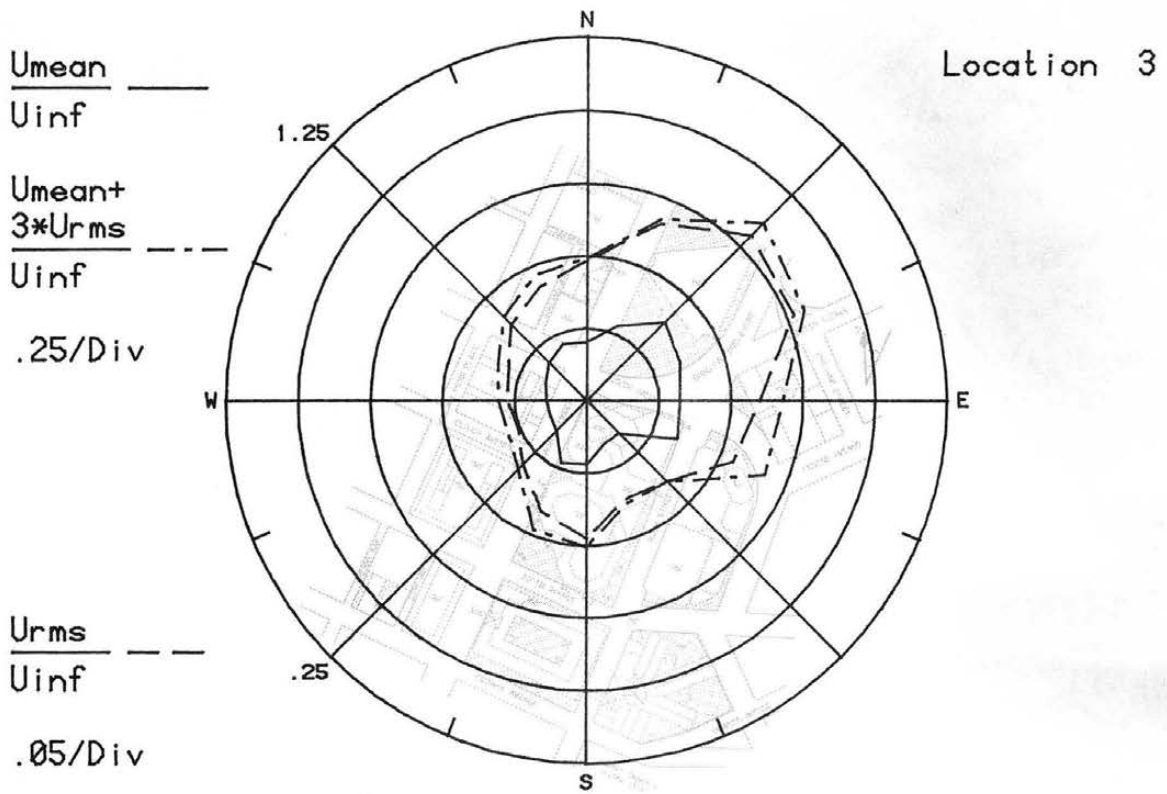


Figure 8b. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

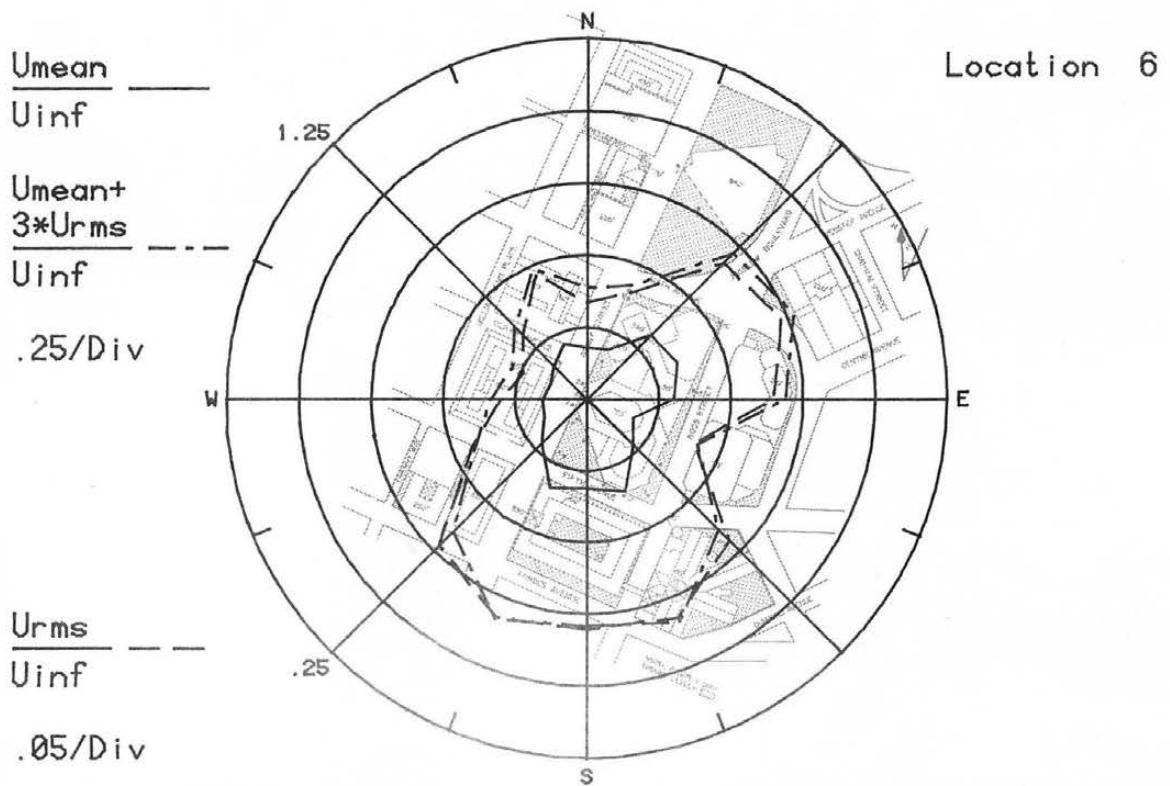
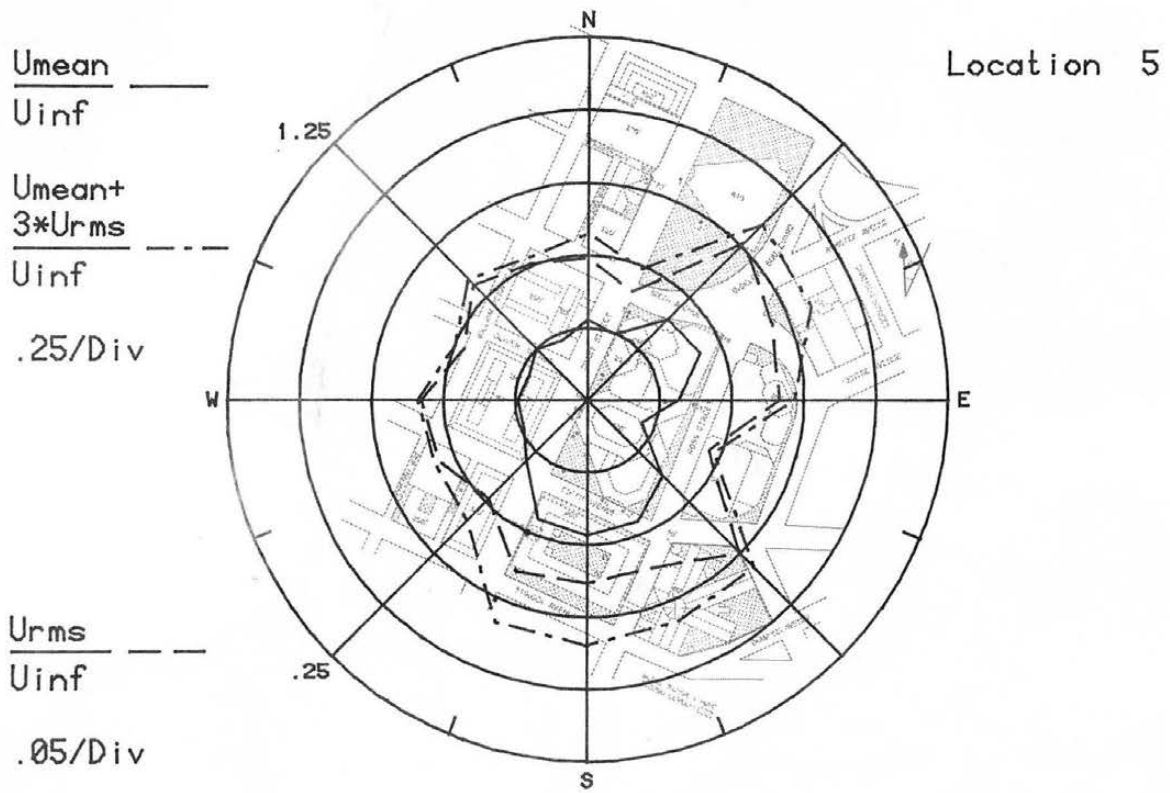


Figure 8c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

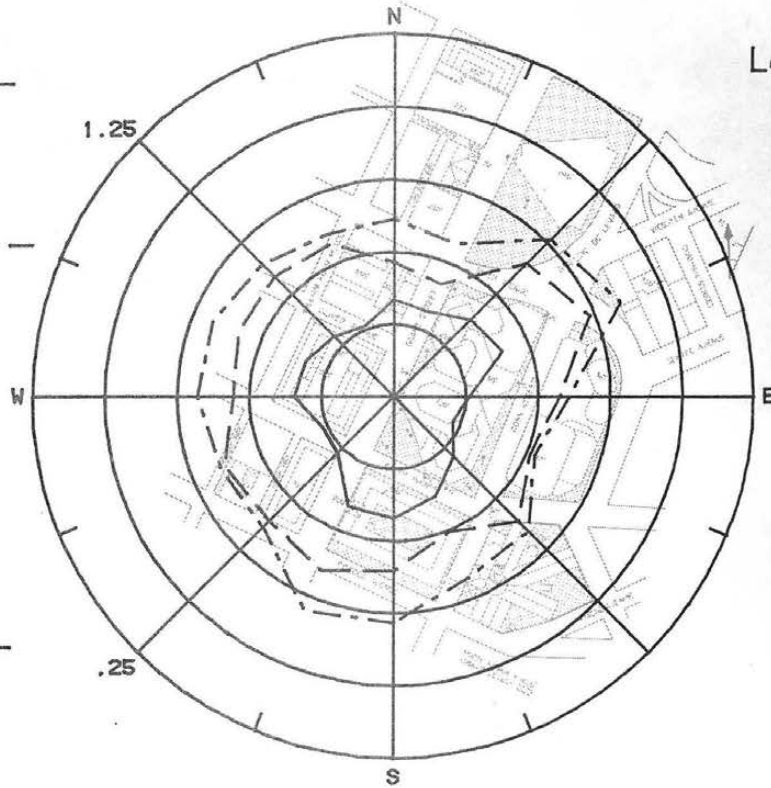
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$$\frac{U_{\text{mean}} + 3 \cdot U_{\text{rms}}}{U_{\text{inf}}} \text{ - - - -}$$

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$$\frac{U_{\text{rms}}}{U_{\text{inf}}} \text{ - - -}$$

$$.05/\text{Div}$$



$$\frac{U_{\text{mean}}}{U_{\text{inf}}} \text{ ———}$$

$$\frac{U_{\text{mean}} + 3 \cdot U_{\text{rms}}}{U_{\text{inf}}} \text{ - - - -}$$

$$.25/\text{Div}$$

$$\frac{U_{\text{rms}}}{U_{\text{inf}}} \text{ - - -}$$

$$.05/\text{Div}$$

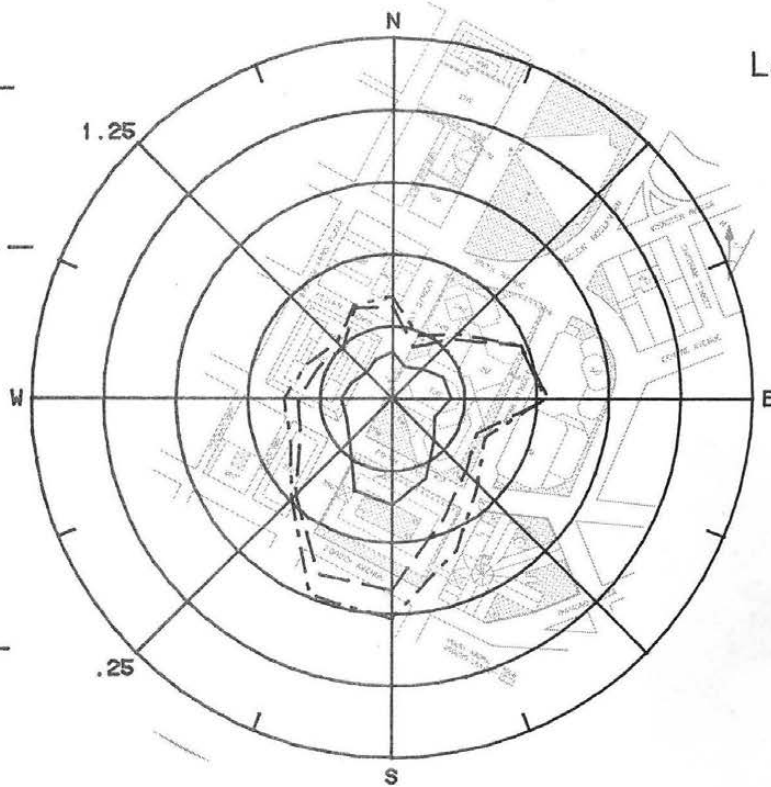


Figure 8d. Mean Velocities and Turbulence Intensities at Pedestrian Locations 7 and 8

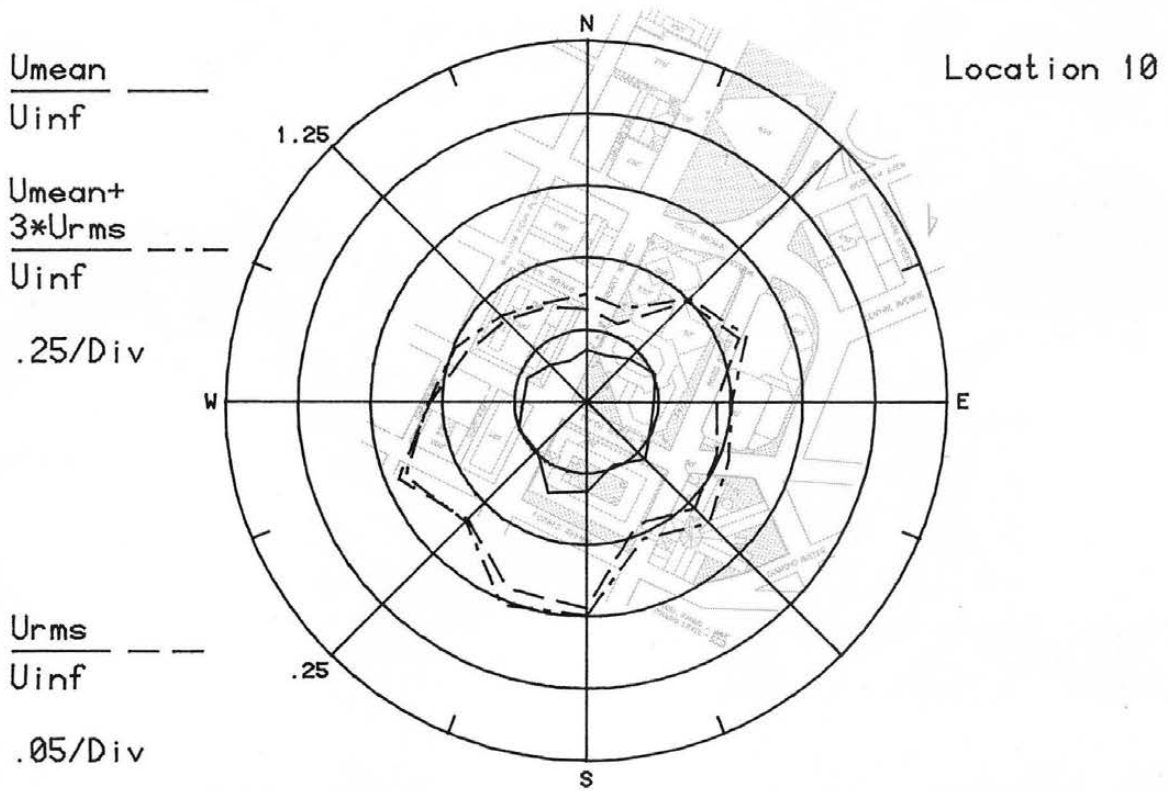
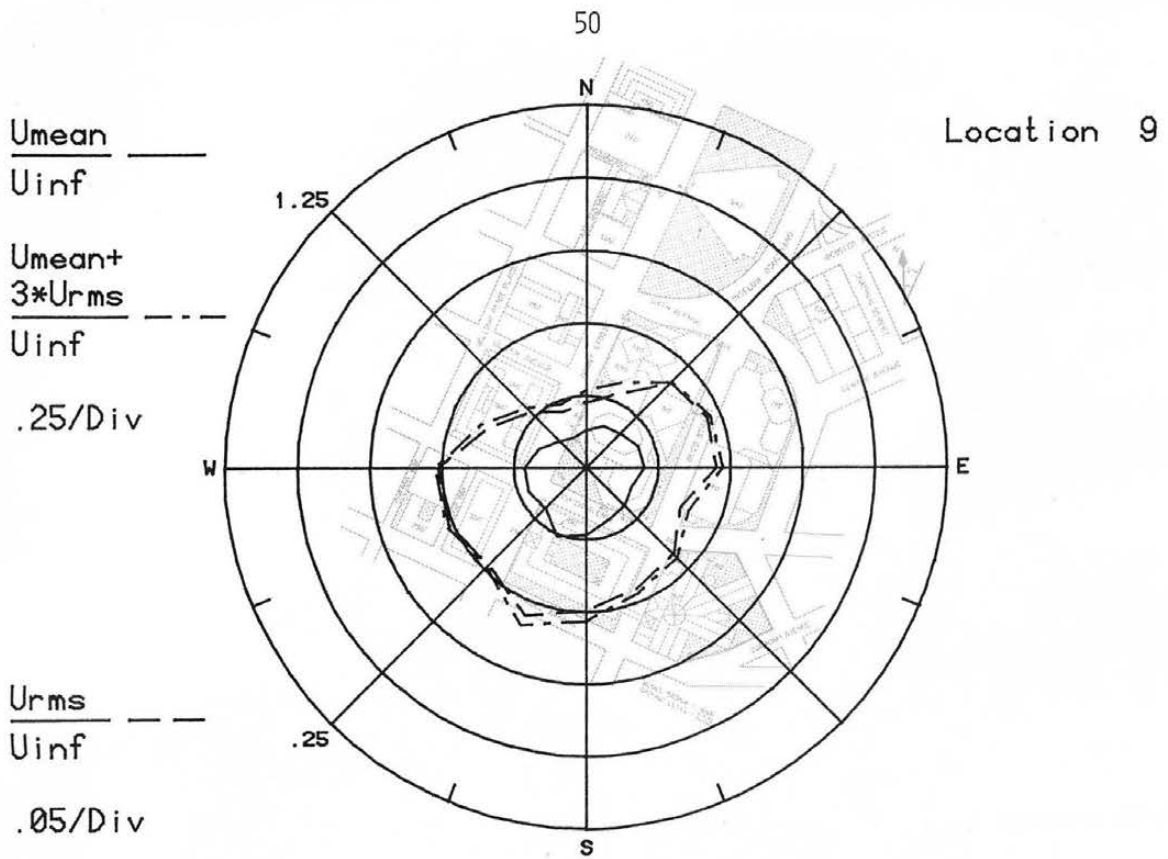


Figure 8e. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

$$\frac{U_{mean}}{U_{inf}} \text{ ———}$$

$$U_{inf}$$

1.25

$$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}} \text{ - - -}$$

$$U_{inf}$$

.25/Div

W

Location 11

E

$$\frac{U_{rms}}{U_{inf}} \text{ - - -}$$

$$U_{inf}$$

.25

.05/Div

S

$$\frac{U_{mean}}{U_{inf}} \text{ ———}$$

$$U_{inf}$$

1.25

$$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}} \text{ - - -}$$

$$U_{inf}$$

.25/Div

W

Location 12

E

$$\frac{U_{rms}}{U_{inf}} \text{ - - -}$$

$$U_{inf}$$

.25

.05/Div

S

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

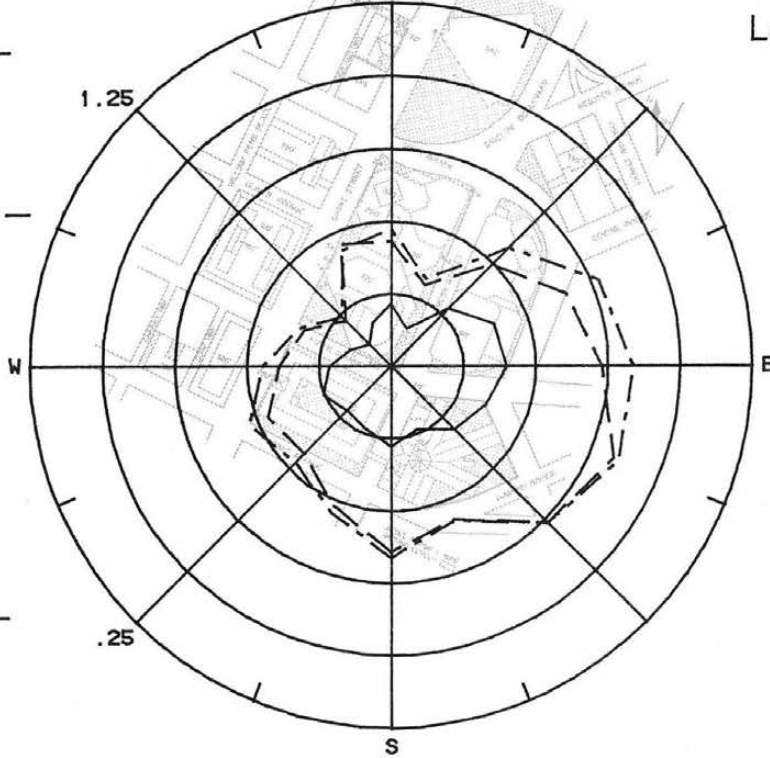


$$\frac{U_{\text{mean}}}{U_{\text{inf}}} \text{ ———}$$

Location 13

$$\frac{U_{\text{mean}} + 3 \cdot U_{\text{rms}}}{U_{\text{inf}}} \text{ - - - -}$$

$$.25/\text{Div}$$



$$\frac{U_{\text{rms}}}{U_{\text{inf}}} \text{ - - -}$$

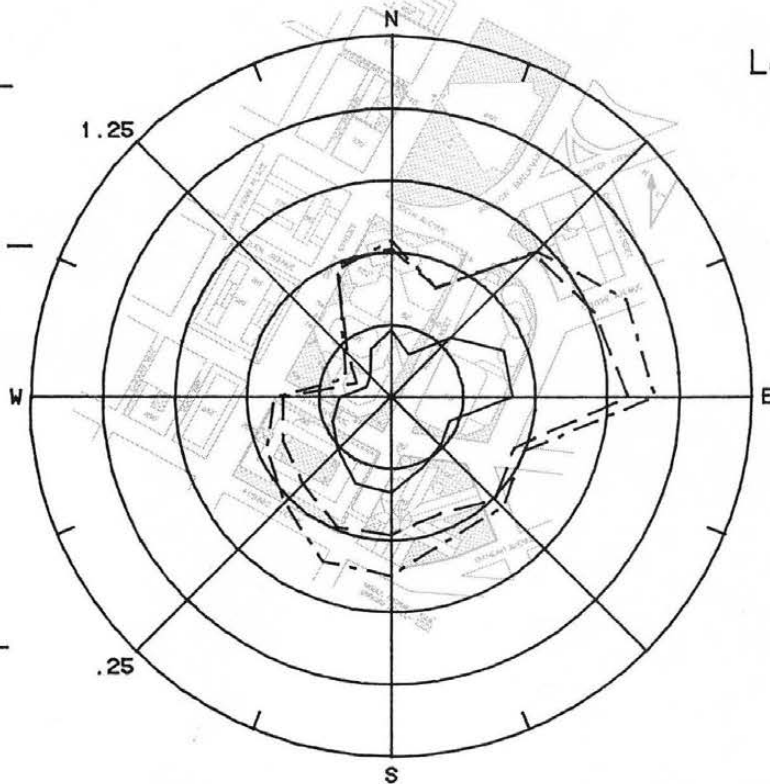
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$$\frac{U_{\text{mean}}}{U_{\text{inf}}} \text{ ———}$$

Location 14

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$$.25/\text{Div}$$



$$\frac{U_{\text{rms}}}{U_{\text{inf}}} \text{ - - -}$$

$$.05/\text{Div}$$

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



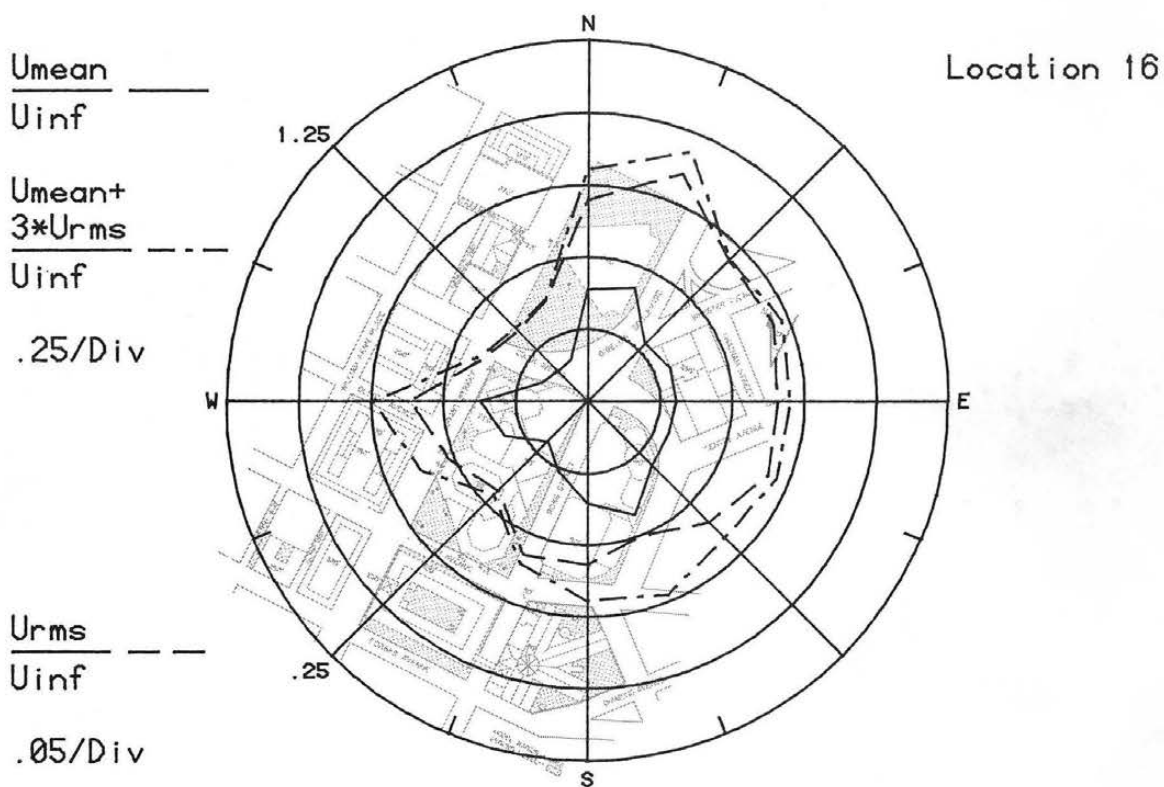
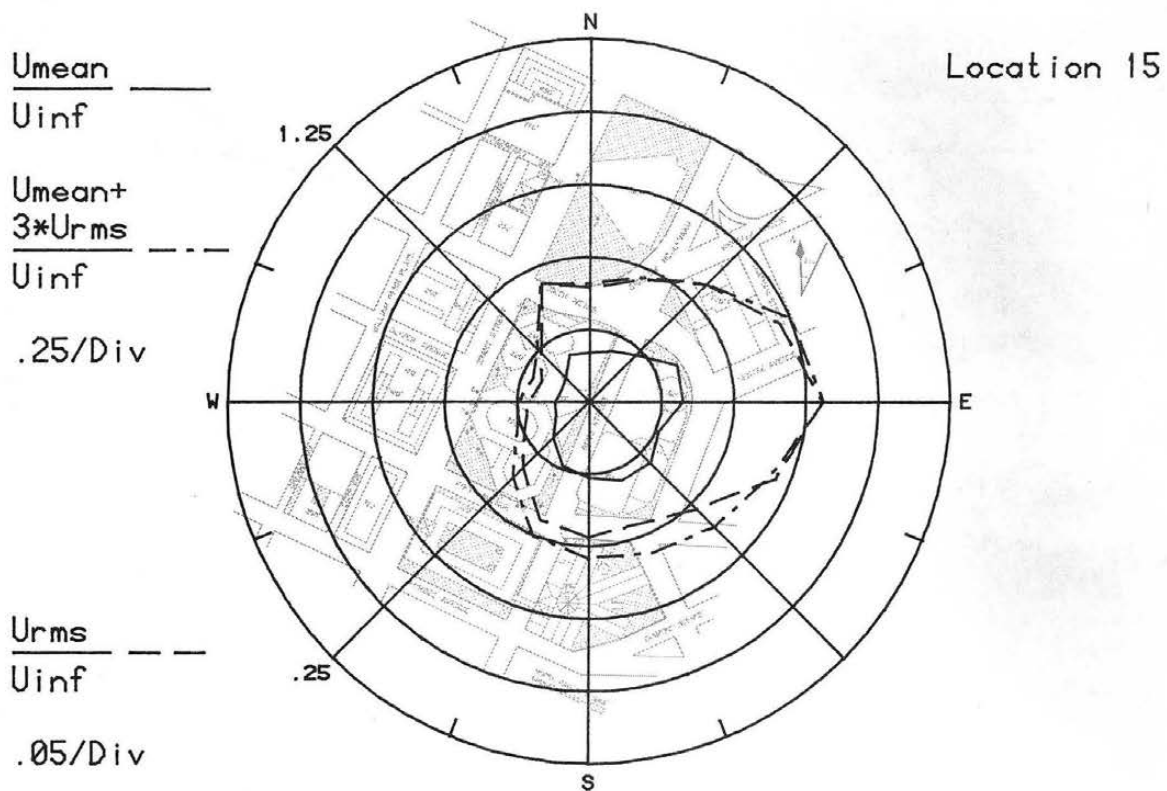


Figure 8h. Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16

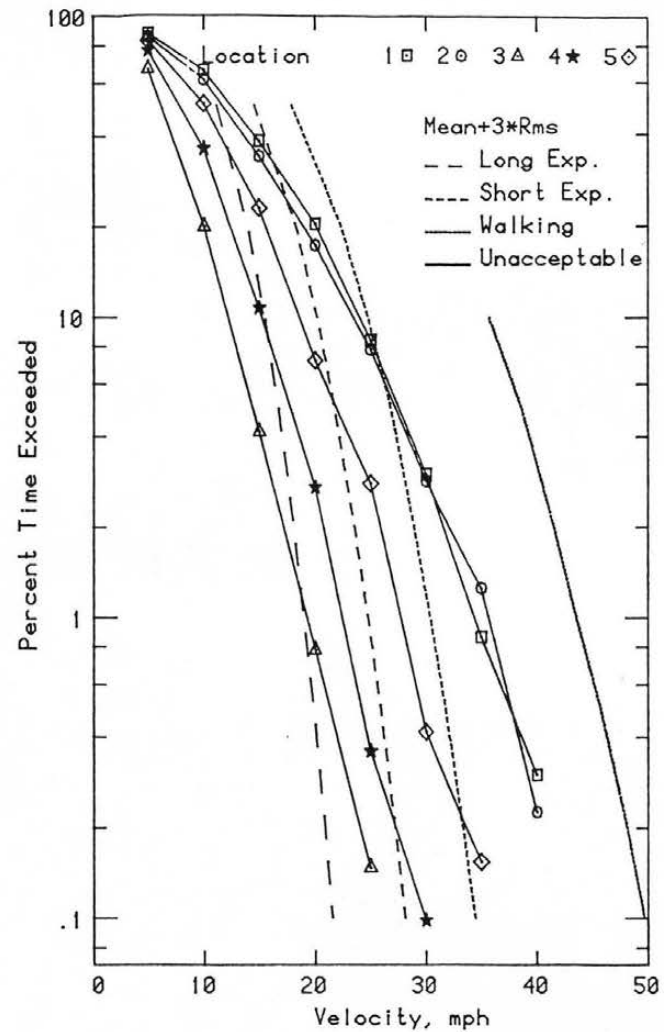
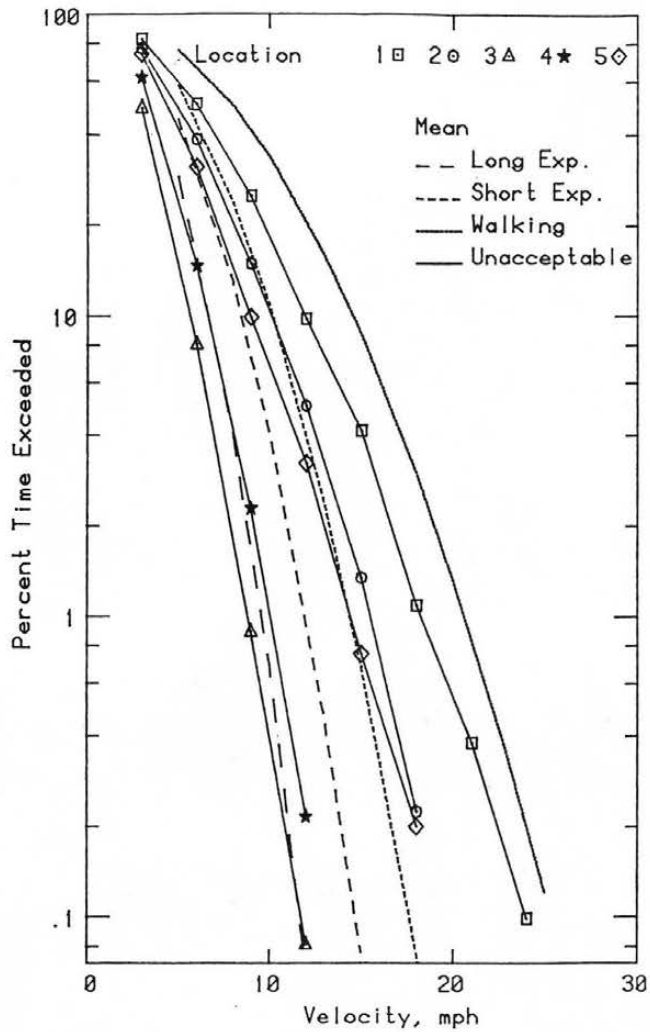


Figure 9a. Wind Velocity Probabilities for Pedestrian Locations

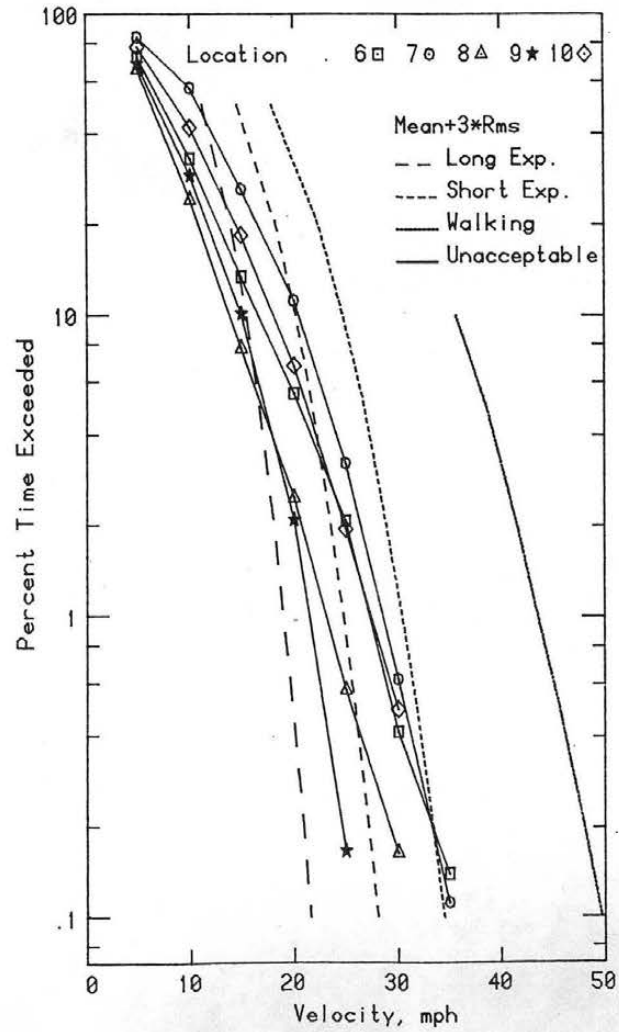
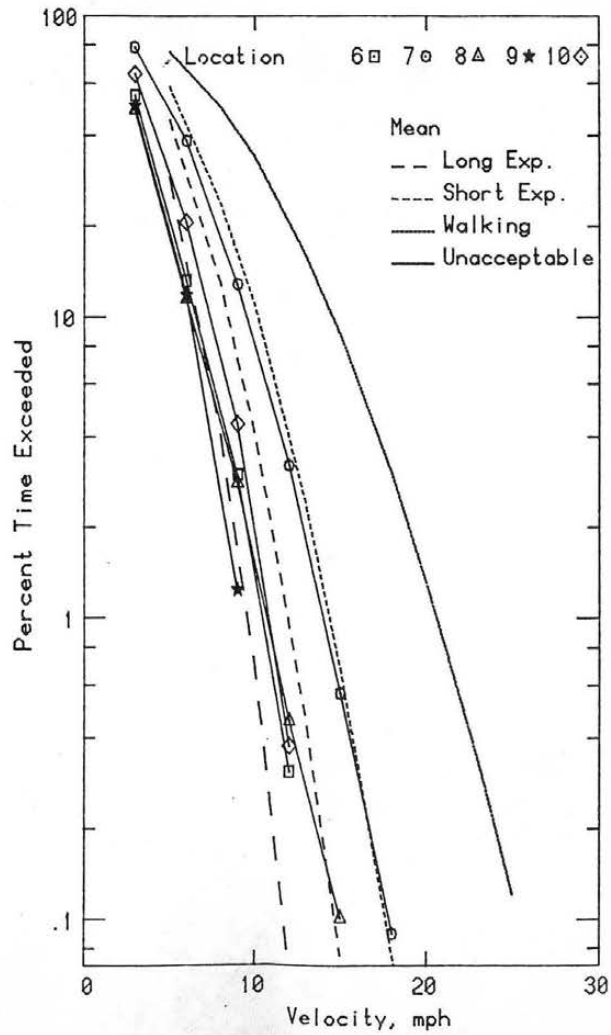


Figure 9b. Wind Velocity Probabilities for Pedestrian Locations

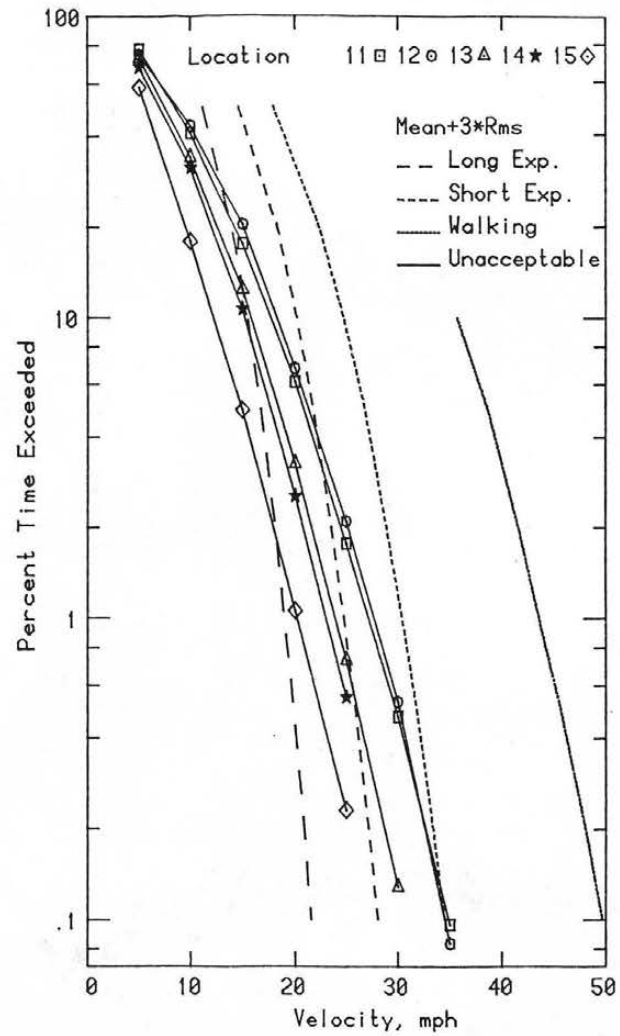
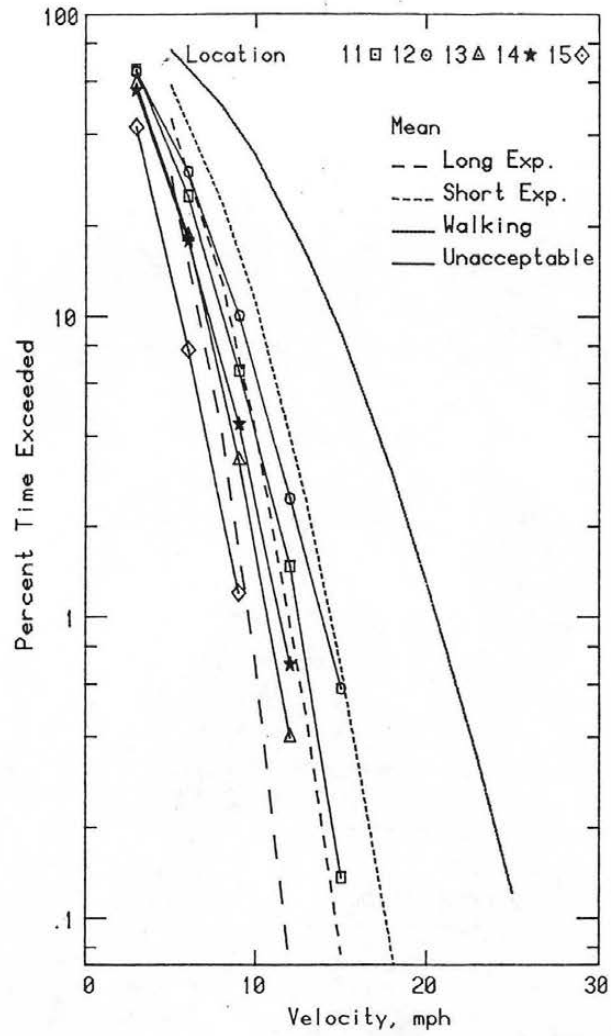


Figure 9c. Wind Velocity Probabilities for Pedestrian Locations

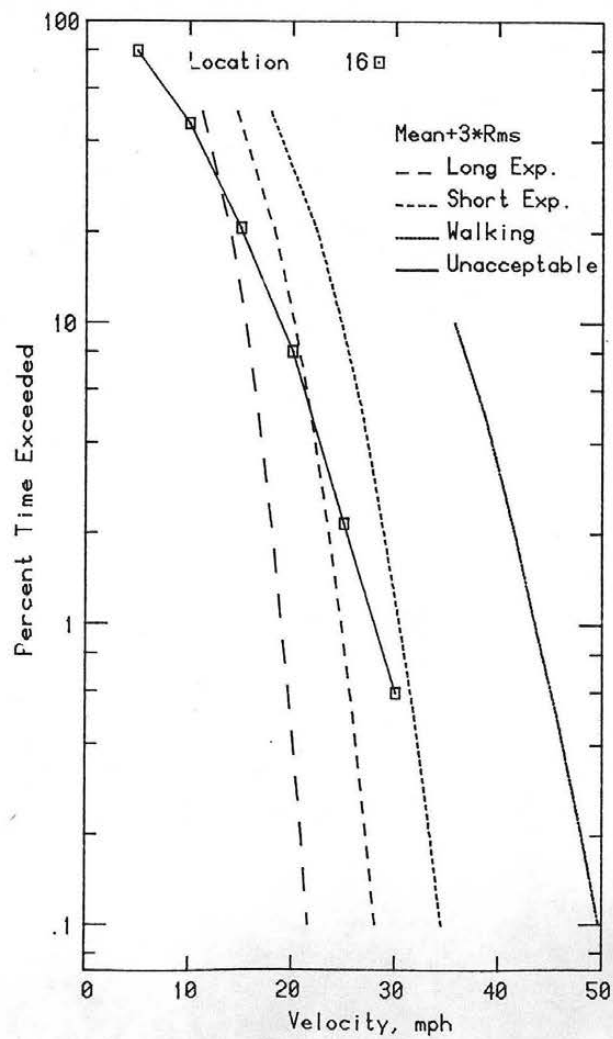
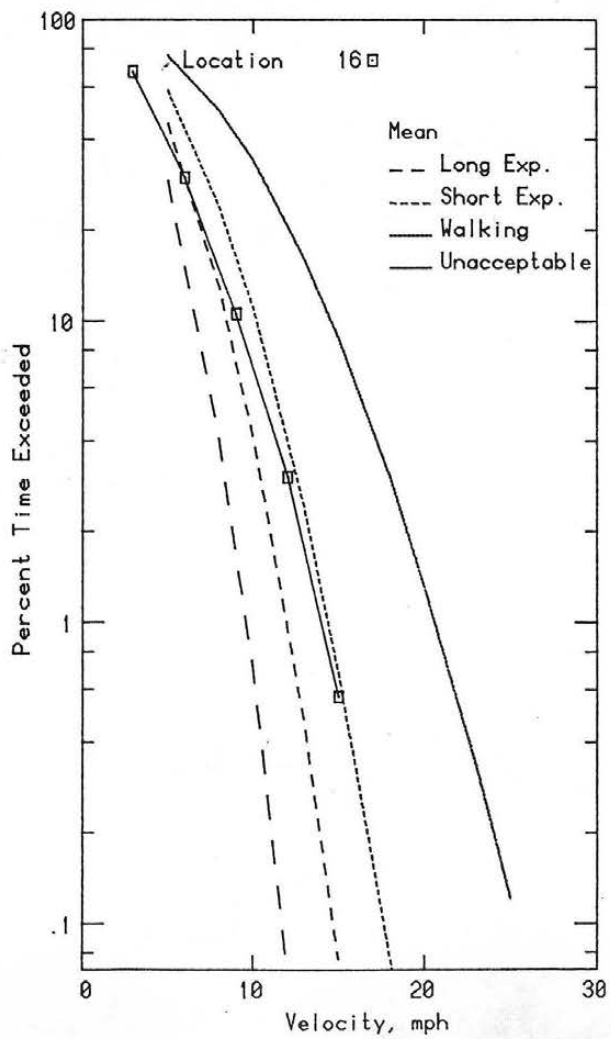
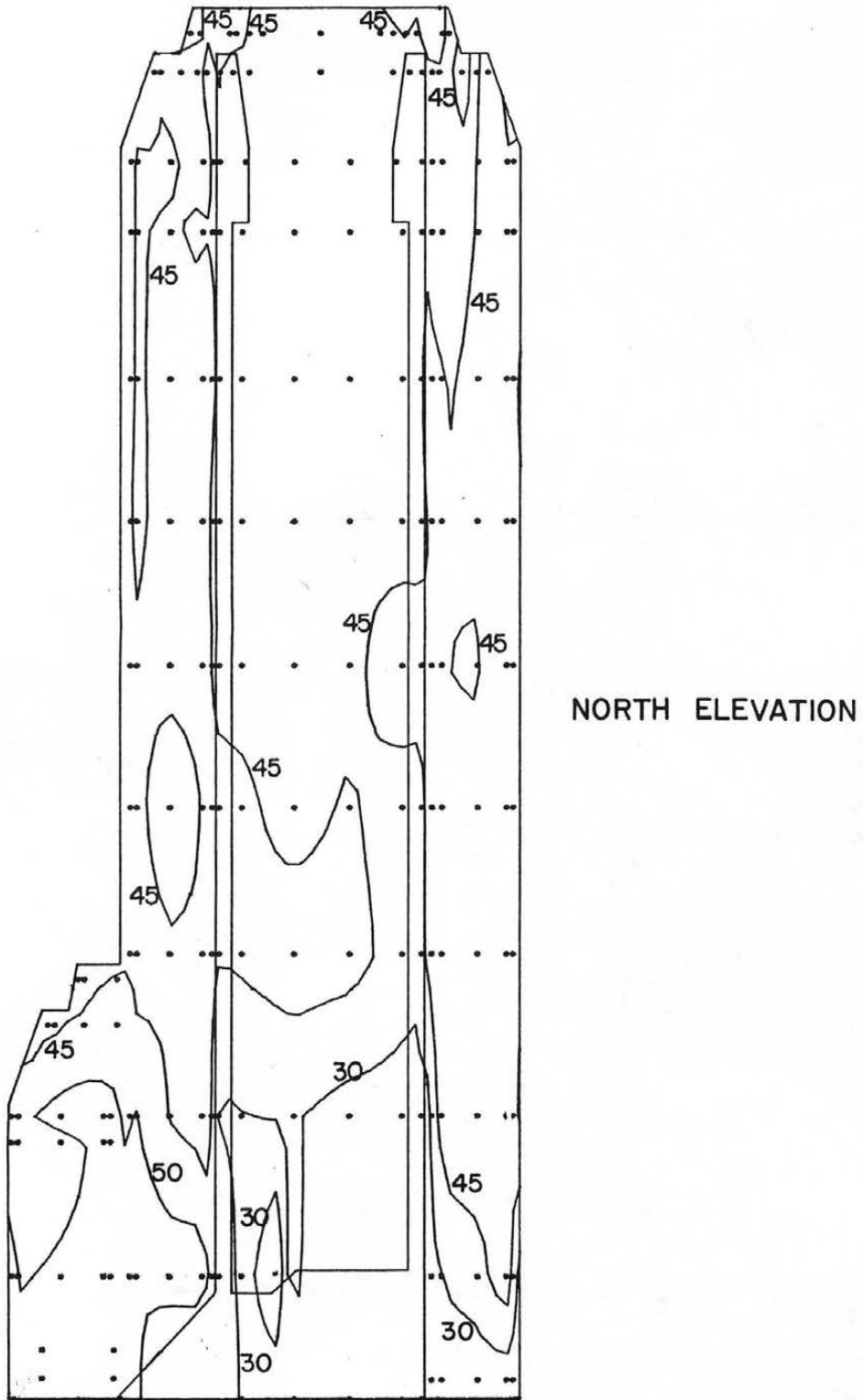


Figure 9d. Wind Velocity Probabilities for Pedestrian Locations



**Cladding Loads**  
**Reference Pressure = 23 psf**

Figure 10a. Peak Pressure Loads on the Building

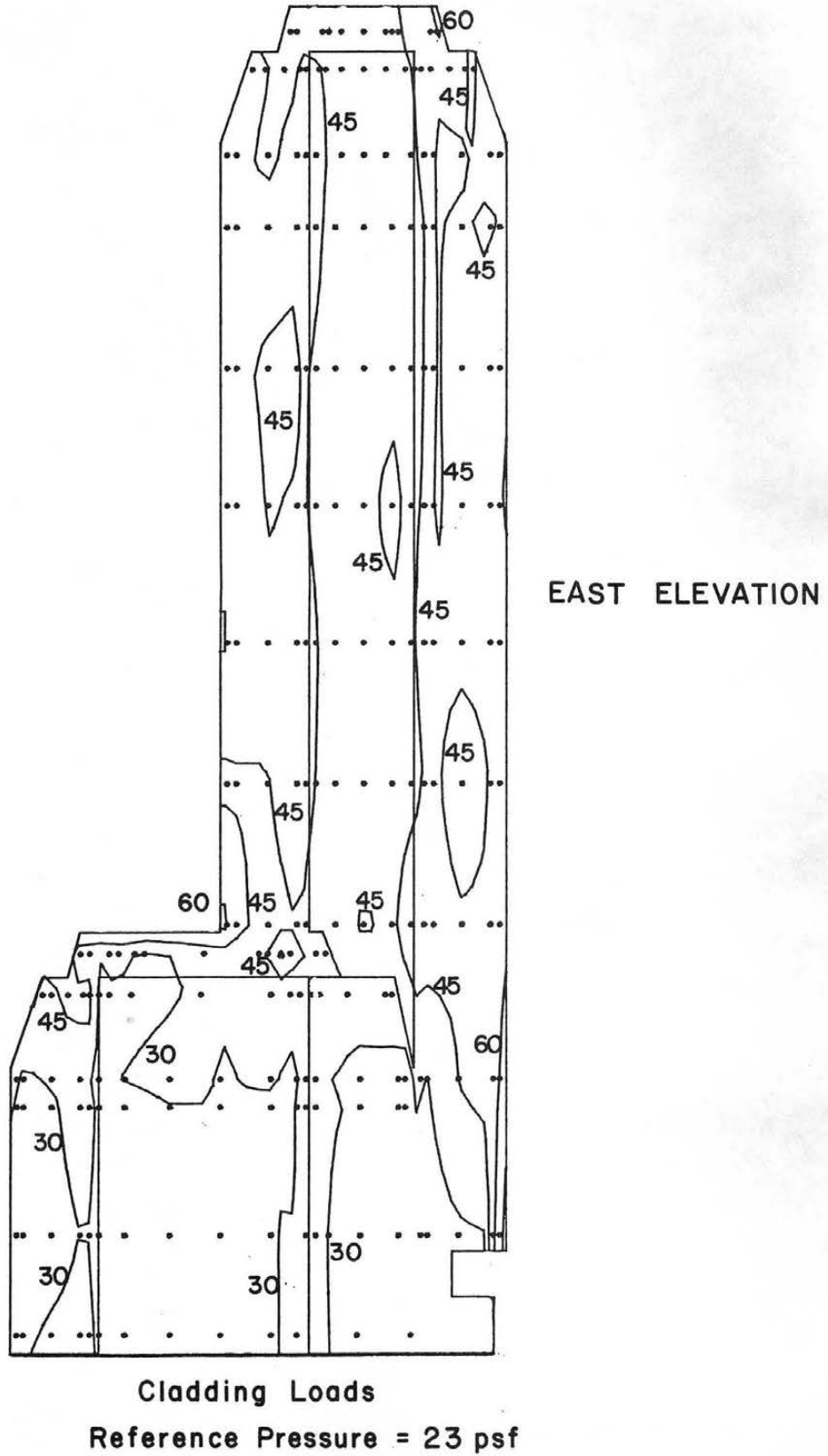
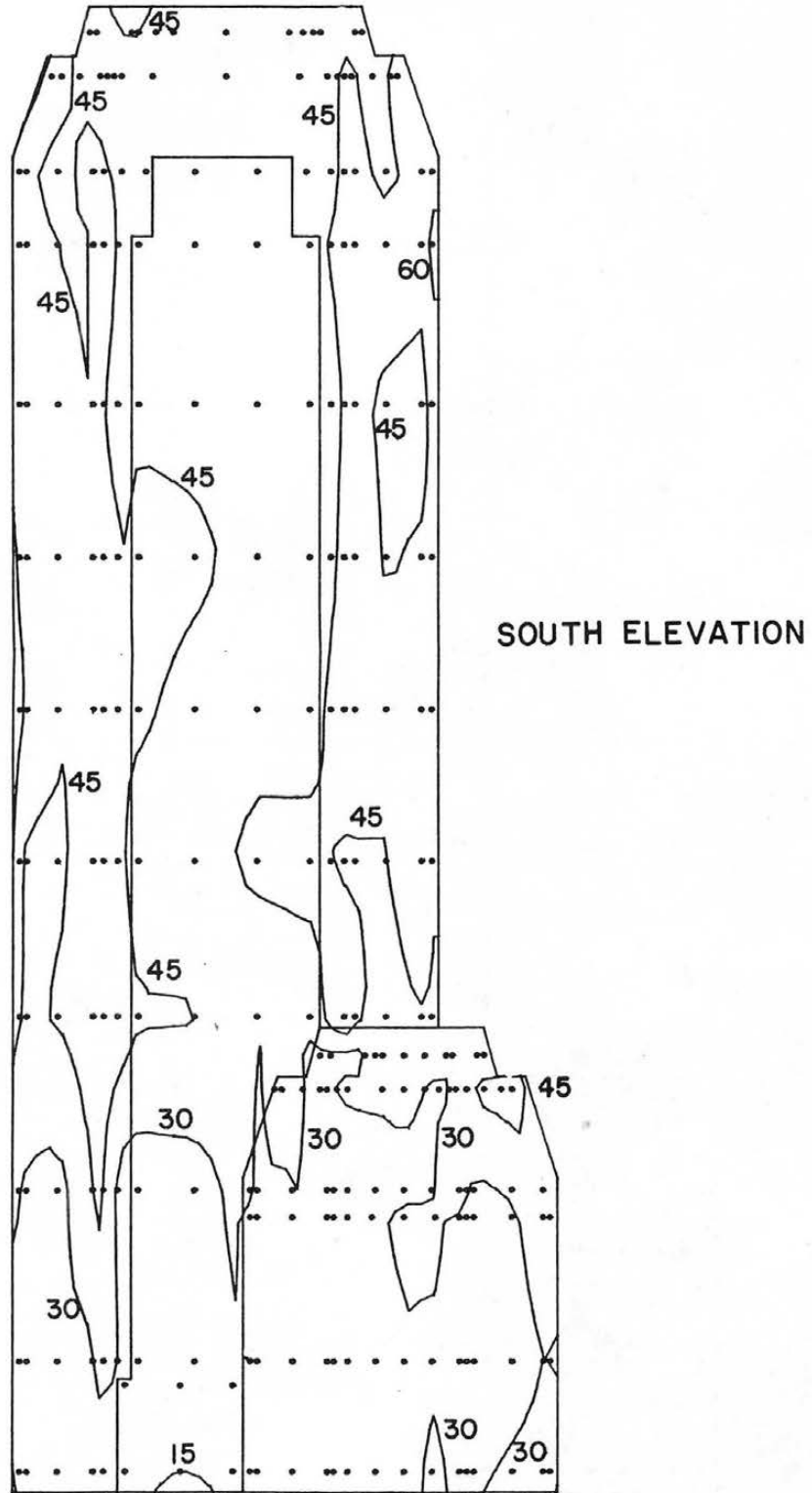


Figure 10b. Peak Pressure Loads on the Building



Cladding Loads  
Reference Pressure = 23 psf

Figure 10c. Peak Pressure Loads on the Building



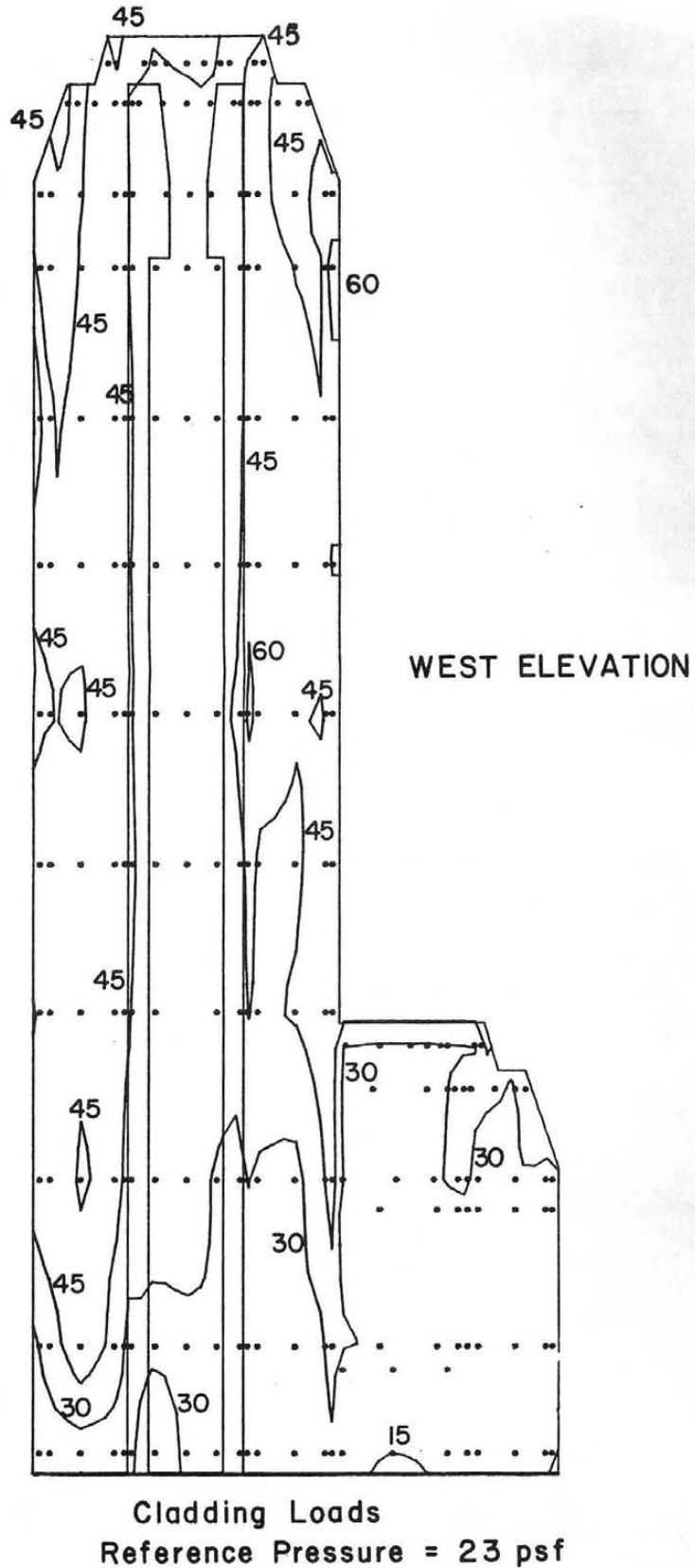


Figure 10d. Peak Pressure Loads on the Building

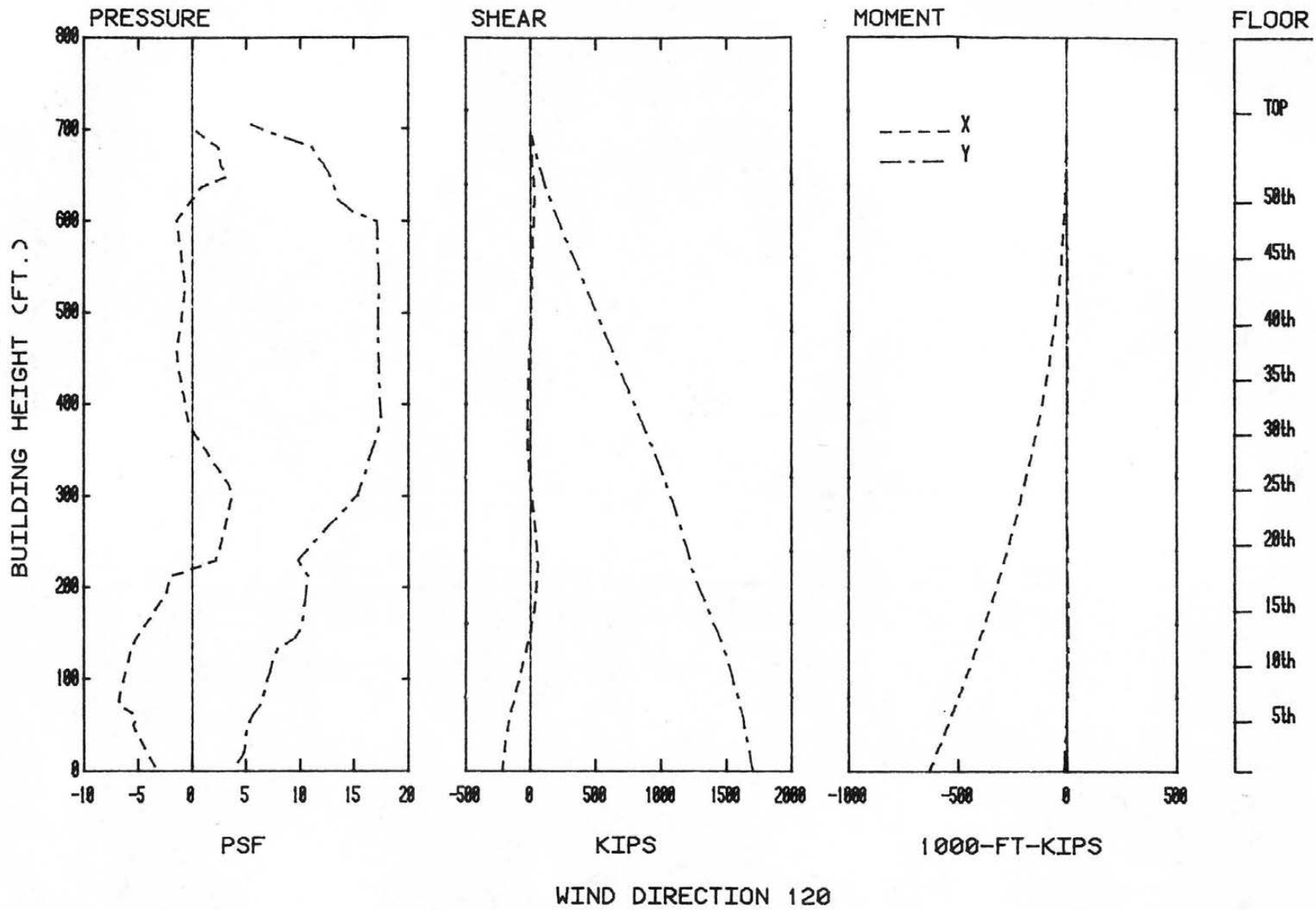
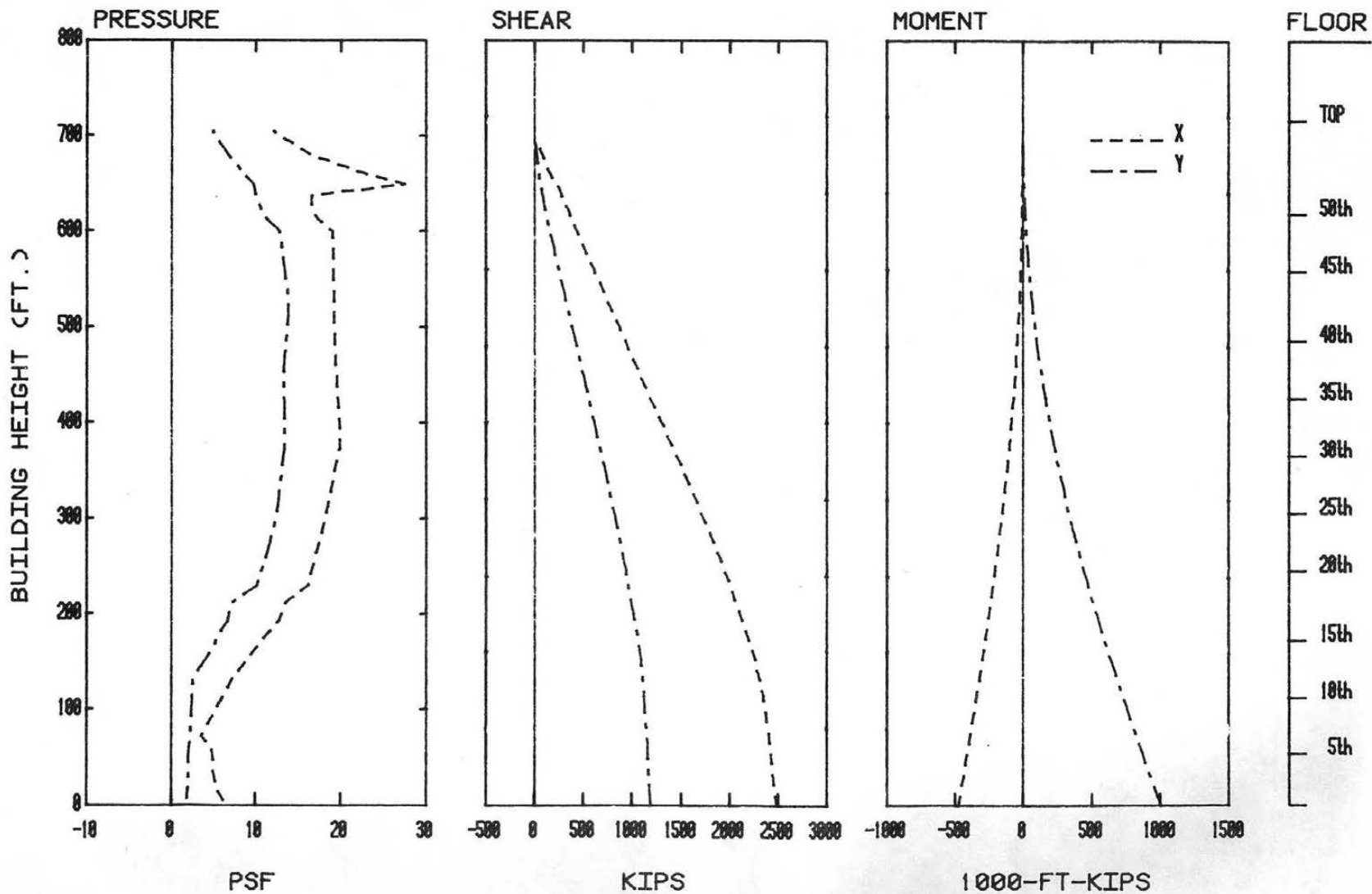


Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions



WIND DIRECTION 160

Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions

TABLES

TABLE 1

## MOTION PICTURE SCENE GUIDE

<u>Run #</u>	<u>Approach Wind Azimuth, degrees</u>
1	0
2	45
3	90
4	135
5	180
6	225
7	270
8	315

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES  
U.S. STEEL GRANT STREET BUILDING

LOCATION 1				LOCATION 2			
WIND AZIMUTH	U <sub>MEAN</sub> /U <sub>INF</sub> (PERCENT)	U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)	U <sub>MEAN</sub> +3*U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)	WIND AZIMUTH	U <sub>MEAN</sub> /U <sub>INF</sub> (PERCENT)	U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)	U <sub>MEAN</sub> +3*U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)
0.00	53.6	22.5	121.1	0.00	27.7	13.2	67.3
22.50	73.9	18.5	128.5	22.50	43.8	22.8	112.3
45.00	79.9	18.0	133.5	45.00	41.2	21.0	104.2
67.50	66.9	20.4	128.2	67.50	49.1	21.8	114.6
90.00	42.7	22.1	108.9	90.00	42.8	20.9	105.3
112.50	22.1	11.8	58.6	112.50	38.9	20.5	100.4
135.00	22.8	12.4	60.0	135.00	26.3	12.1	62.8
157.50	50.4	17.7	103.5	157.50	28.3	10.3	59.1
180.00	59.1	12.8	97.6	180.00	32.4	12.8	70.9
202.50	51.1	13.0	90.0	202.50	28.4	13.9	70.0
225.00	36.0	11.2	69.7	225.00	29.6	12.4	66.7
247.50	34.0	12.0	70.0	247.50	39.9	15.1	85.1
270.00	34.7	13.9	75.5	270.00	36.2	17.4	88.4
292.50	33.7	10.9	62.2	292.50	28.8	10.8	55.2
315.00	28.5	11.4	62.2	315.00	27.7	10.9	59.3
337.50	31.7	15.1	77.0	337.50	19.8	9.6	48.5

LOCATION 3				LOCATION 4			
WIND AZIMUTH	U <sub>MEAN</sub> /U <sub>INF</sub> (PERCENT)	U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)	U <sub>MEAN</sub> +3*U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)	WIND AZIMUTH	U <sub>MEAN</sub> /U <sub>INF</sub> (PERCENT)	U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)	U <sub>MEAN</sub> +3*U <sub>RMS</sub> /U <sub>INF</sub> (PERCENT)
0.00	20.4	9.6	49.2	0.00	25.2	10.7	57.3
22.50	28.1	13.2	67.7	22.50	18.8	7.8	42.2
45.00	38.2	16.1	86.4	45.00	31.3	12.7	69.4
67.50	34.9	15.5	81.5	67.50	30.4	12.8	68.7
90.00	22.2	12.0	68.1	90.00	22.1	10.3	53.2
112.50	33.9	11.0	66.8	112.50	14.7	5.5	31.4
135.00	15.9	7.9	33.9	135.00	19.8	9.5	48.4
157.50	16.0	7.3	33.3	157.50	24.9	12.0	61.0
180.00	22.8	9.5	50.4	180.00	30.2	14.2	73.0
202.50	23.1	8.3	47.9	202.50	31.1	12.5	68.5
225.00	14.9	6.2	33.5	225.00	23.0	9.6	51.7
247.50	13.3	5.1	29.9	247.50	19.9	8.4	45.2
270.00	14.4	5.5	30.7	270.00	17.7	7.5	40.1
292.50	15.5	5.9	33.2	292.50	16.6	6.8	36.9
315.00	15.5	7.4	40.8	315.00	23.4	11.0	56.2
337.50	21.3	8.5	46.8	337.50	25.2	11.6	59.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES  
U.S. STEEL GRANT STREET BUILDING

LOCATION 5

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	27.9	9.8	57.2
22.50	24.8	8.1	49.0
45.00	39.5	15.3	85.4
67.50	42.4	13.8	83.9
90.00	31.6	13.3	71.6
112.50	20.3	9.1	47.6
135.00	36.9	15.0	81.8
157.50	45.4	12.5	82.9
180.00	46.9	12.7	84.8
202.50	44.4	12.8	82.9
225.00	29.9	9.7	58.9
247.50	23.9	11.1	57.3
270.00	24.3	11.6	58.9
292.50	31.9	9.3	49.7
315.00	25.0	11.2	58.7
337.50	22.7	10.2	53.2

LOCATION 6

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	18.2	6.7	38.4
22.50	18.8	8.0	42.8
45.00	31.5	13.3	71.5
67.50	33.9	14.6	77.6
90.00	30.1	13.0	69.0
112.50	17.2	8.1	41.5
135.00	22.7	14.0	64.6
157.50	34.6	16.5	84.2
180.00	31.1	16.1	79.4
202.50	33.6	16.5	83.1
225.00	22.2	14.5	65.7
247.50	16.1	8.6	41.8
270.00	15.6	6.0	33.4
292.50	13.6	4.8	27.9
315.00	16.4	6.3	35.4
337.50	20.8	9.3	48.8

LOCATION 7

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	33.4	9.3	61.3
22.50	31.7	8.4	56.9
45.00	37.6	13.0	76.6
67.50	40.8	14.7	84.8
90.00	26.2	11.5	60.7
112.50	32.2	10.2	52.8
135.00	39.3	12.2	66.0
157.50	37.4	10.1	67.9
180.00	42.0	12.1	78.3
202.50	40.9	13.0	79.9
225.00	27.5	12.1	63.9
247.50	26.8	12.7	64.7
270.00	34.6	11.1	67.9
292.50	32.9	11.6	67.8
315.00	29.3	11.7	64.3
337.50	26.4	11.4	60.6

LOCATION 8

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	16.0	6.4	33.2
22.50	11.9	3.8	23.3
45.00	14.3	5.7	31.5
67.50	19.2	9.6	48.1
90.00	20.5	10.3	53.1
112.50	15.8	6.3	34.7
135.00	20.4	7.2	41.9
157.50	30.0	9.1	57.5
180.00	36.7	13.3	76.6
202.50	34.3	13.2	74.1
225.00	20.9	9.4	49.3
247.50	17.3	6.9	38.1
270.00	17.9	6.6	37.5
292.50	15.0	5.6	31.7
315.00	12.8	4.9	27.4
337.50	14.6	6.8	34.9

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES  
U.S. STEEL GRANT STREET BUILDING

LOCATION 9

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	13.0	4.6	26.7
22.50	15.5	5.3	32.0
45.00	16.8	8.3	41.8
67.50	19.5	9.0	46.6
90.00	20.3	9.0	47.4
112.50	17.1	7.1	38.4
135.00	18.8	8.6	44.5
157.50	19.7	9.1	47.0
180.00	23.4	10.0	53.3
202.50	25.9	11.1	59.2
225.00	20.1	9.6	48.8
247.50	21.7	10.3	52.7
270.00	21.4	10.3	52.2
292.50	17.6	7.3	39.4
315.00	13.1	5.4	29.3
337.50	11.1	4.2	23.7

LOCATION 10

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	18.1	6.4	37.2
22.50	17.5	5.8	35.0
45.00	21.1	9.8	50.6
67.50	25.7	11.4	60.0
90.00	23.5	9.0	50.5
112.50	24.1	9.8	53.4
135.00	28.5	10.6	60.2
157.50	24.0	9.3	51.8
180.00	31.5	14.4	74.8
202.50	34.5	14.1	76.8
225.00	24.4	11.6	59.3
247.50	25.6	14.1	67.9
270.00	22.1	10.8	54.6
292.50	22.2	9.0	49.3
315.00	18.1	7.9	41.9
337.50	15.6	7.1	36.9

LOCATION 11

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	14.9	6.3	33.8
22.50	13.7	5.7	30.9
45.00	26.2	10.7	58.3
67.50	43.0	19.2	100.7
90.00	27.1	15.1	72.3
112.50	38.7	16.2	87.3
135.00	41.2	15.1	86.4
157.50	30.8	12.8	69.1
180.00	23.9	11.9	59.7
202.50	23.6	10.6	55.4
225.00	22.1	8.5	47.7
247.50	30.3	12.3	67.3
270.00	26.9	8.0	52.3
292.50	23.2	7.4	46.4
315.00	16.4	7.7	39.3
337.50	16.7	7.5	39.2

LOCATION 12

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	13.7	5.7	30.6
22.50	12.1	4.8	26.4
45.00	35.6	12.4	72.9
67.50	45.0	16.0	93.1
90.00	30.4	16.3	79.4
112.50	39.9	16.0	87.8
135.00	35.3	13.9	76.9
157.50	24.3	10.3	53.9
180.00	23.7	10.1	53.9
202.50	29.8	10.1	60.2
225.00	27.5	9.4	55.6
247.50	35.7	11.1	69.1
270.00	29.3	9.9	59.0
292.50	22.4	9.6	51.3
315.00	11.8	5.5	28.4
337.50	13.7	6.4	32.9



TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES  
U.S. STEEL GRANT STREET BUILDING

LOCATION 13

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	21.6	8.6	47.4
2 50	14.3	6.1	32.5
4 00	28.0	9.8	57.5
6 50	38.4	13.1	77.6
9 00	39.9	14.6	83.7
11 2 56	35.3	16.7	85.2
13 3 00	30.9	15.3	76.8
15 3 50	23.4	11.4	57.8
18 0 00	27.6	12.8	66.2
20 2 50	23.4	10.4	54.6
22 5 00	21.5	8.6	47.1
24 7 50	25.5	9.2	53.3
27 0 00	21.4	7.7	44.6
29 2 50	15.1	6.4	34.4
31 5 00	10.7	4.4	24.0
33 7 50	16.3	9.1	43.6

LOCATION 14

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	23.2	10.2	54.0
2 50	16.2	8.2	40.9
4 5 00	29.2	14.0	71.2
6 7 50	42.4	15.2	88.1
9 0 00	42.0	16.5	91.5
11 2 50	21.9	9.3	49.7
13 5 00	24.1	10.2	54.6
15 7 50	27.0	8.9	53.6
18 0 00	33.5	9.6	62.3
20 2 50	32.6	9.8	62.0
22 5 00	26.4	8.6	52.3
24 7 50	22.2	8.1	46.6
27 0 00	17.8	7.5	40.3
29 2 50	9.4	2.6	17.2
31 5 00	10.4	4.4	23.5
33 7 50	18.3	9.9	48.0

LOCATION 15

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	17.0	7.9	40.6
2 50	18.9	9.1	46.3
4 00	22.8	11.4	57.0
6 7 50	32.7	14.2	75.3
9 0 00	32.6	16.1	81.0
11 2 50	26.0	13.9	67.8
13 5 00	29.9	10.5	61.5
15 7 50	29.5	9.2	56.9
18 0 00	26.1	9.4	54.3
20 2 50	23.9	8.8	50.4
22 5 00	17.7	6.4	36.9
24 7 50	12.6	4.9	27.1
27 0 00	11.8	4.2	24.3
29 2 50	10.2	3.6	21.0
31 5 00	11.5	4.7	25.7
33 7 50	17.8	8.8	44.2

LOCATION 16

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	38.6	13.9	80.4
2 50	42.4	17.1	93.6
4 5 00	28.0	13.8	69.3
6 7 50	30.9	13.9	72.7
9 0 00	30.7	13.2	70.2
11 2 50	30.1	13.5	70.6
13 5 00	31.5	11.9	67.1
15 7 50	42.6	10.1	72.9
18 0 00	35.3	11.4	69.4
20 2 50	26.2	11.6	60.9
22 5 00	19.5	8.7	45.8
24 7 50	31.0	10.4	62.2
27 0 00	37.5	12.3	74.3
29 2 50	17.1	7.8	40.4
31 5 00	14.7	6.9	35.3
33 7 50	15.5	7.5	38.0

TABLE 3

## PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

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

SEASON : ANNUAL NO. OF OBS. = 354 HT. OF MEAS. = 984. FT.

## VELOCITY LEVELS IN MPH

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	1.33	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
NENE	1.33	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
SS	1.33	1.75	.93	.11	0.00	0.00	4.15
SSW	1.43	3.58	1.55	.19	0.00	0.00	7.77
WSW	1.22	6.50	3.04	.76	.05	0.00	11.74
WS	1.66	6.00	3.92	1.04	.05	0.00	13.49
WSE	1.00	6.00	3.67	.73	.02	0.00	13.04
ENE	1.88	5.59	2.42	.31	0.00	0.00	9.99
NNE	1.88	4.96	1.10	.02	0.00	0.00	7.90
NNE	1.55	3.66	.64	0.00	0.00	0.00	6.00
CALM	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	32.47	54.52	19.73	3.41	.14	0.00	100.00

TABLE 4

## SUMMARY OF WIND EFFECTS ON PEOPLE

	<u>Beaufort number</u>	<u>Speed (mph)</u>	<u>Effects</u>
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 Hair disarranged
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 analysis of Pittsburgh extreme value winds:

50-yr fastest mile at 30 ft = 62 mph

Mean hourly wind speed =  $62/1.98 = 50.0$

Mean hourly gradient wind speed =  $50 \left(\frac{1100}{30}\right)^{.19} = 99.0$  mph

Wind tunnel reference velocity height = 1250 ft

Mean hourly wind speed at 1250 ft =  $U_{\infty} =$

$$99.0 \left(\frac{1250}{1500}\right)^{0.26} = 94.4 \text{ mph}$$

Reference pressure =  $0.5\rho U_{\infty}^2 = 0.98 (0.00256) (94.4^2) = 22.4$  psf

Use 23 psf

2. Loads for 100-yr recurrence wind:

100-yr fastest mile at 30 ft = 66 mph

Multiply 50-yr loads by  $(66/62)^2 = 1.13$

3. Gust load factors to convert hourly mean integrated loads to various gust durations (see Sect. 4.4):

<u>Gust Duration, sec</u>	<u>Gust Load Factor</u>
10-15	$(1.4)^2 = 1.96$
30	$(1.32)^2 = 1.74$
45	$(1.26)^2 = 1.59$

The 30 second load factor was used in Table 7.

TABLE 6A. PEAK LOADS FOR CONFIGURATION A  
LARGEST VALUES OF CLADDING LOAD

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK	POSITIVE PEAK
			PSF	PSF				PSF	PSF				PSF	PSF
1101	100	1.71	39.3	34.0	1149	140	1.99	45.7	42.9	1101	100	1.71	39.3	34.0
1102	110	1.48	33.4	29.7	1150	140	1.99	45.7	42.9	1102	110	1.48	33.4	29.7
1103	280	1.47	33.8	25.2	1151	130	2.22	53.3	49.9	1103	280	1.47	33.8	25.2
1104	310	1.77	40.0	27.0	1152	140	2.22	53.3	49.9	1104	310	1.77	40.0	27.0
1105	310	1.88	43.2	29.2	1153	310	2.22	53.3	49.9	1105	310	1.88	43.2	29.2
1106	20	2.03	46.7	30.8	1154	290	1.11	45.5	42.9	1106	20	2.03	46.7	30.8
1107	30	1.48	34.0	33.3	1155	150	1.11	45.5	42.9	1107	30	1.48	34.0	33.3
1108	110	1.58	36.4	34.0	1156	140	1.11	45.5	42.9	1108	110	1.58	36.4	34.0
1109	130	1.39	31.9	29.7	1157	110	1.33	36.6	33.3	1109	130	1.39	31.9	29.7
1110	0	1.56	36.0	30.0	1158	270	1.11	45.5	42.9	1110	0	1.56	36.0	30.0
1111	320	1.69	38.9	31.1	1159	110	1.00	23.3	22.2	1111	320	1.69	38.9	31.1
1112	10	1.77	40.0	27.2	1160	320	1.11	45.5	42.9	1112	10	1.77	40.0	27.2
1113	310	1.63	37.5	30.0	1161	150	1.10	45.5	42.9	1113	310	1.63	37.5	30.0
1114	0	1.97	45.4	45.4	1162	180	1.11	45.5	42.9	1114	0	1.97	45.4	45.4
1115	50	1.51	34.7	34.7	1163	70	2.21	56.6	52.2	1115	50	1.51	34.7	34.7
1116	0	1.55	35.6	35.6	1164	120	1.11	45.5	42.9	1116	0	1.55	35.6	35.6
1117	80	1.77	40.0	40.0	1165	110	1.17	49.4	46.1	1117	80	1.77	40.0	40.0
1118	120	1.36	31.3	30.4	1166	140	1.19	49.9	46.1	1118	120	1.36	31.3	30.4
1119	300	1.90	43.6	36.6	12001	40	2.21	56.6	52.2	1119	300	1.90	43.6	36.6
1120	60	1.63	37.7	37.7	12002	260	1.11	45.5	42.9	1120	60	1.63	37.7	37.7
1121	110	1.66	38.0	35.5	12003	40	2.21	56.6	52.2	1121	110	1.66	38.0	35.5
1122	100	1.63	37.7	34.4	12004	30	2.21	56.6	52.2	1122	100	1.63	37.7	34.4
1123	0	1.47	33.8	30.0	12005	30	1.11	45.5	42.9	1123	0	1.47	33.8	30.0
1124	110	1.78	41.0	31.5	12006	30	1.11	45.5	42.9	1124	110	1.78	41.0	31.5
1125	40	1.81	41.7	41.7	12007	270	1.00	23.3	22.2	1125	40	1.81	41.7	41.7
1126	40	1.83	42.1	42.1	12008	20	2.21	56.6	52.2	1126	40	1.83	42.1	42.1
1127	310	1.46	33.3	30.0	12009	260	1.11	45.5	42.9	1127	310	1.46	33.3	30.0
1128	330	1.64	37.7	30.0	12110	30	1.11	45.5	42.9	1128	330	1.64	37.7	30.0
1129	0	1.63	37.6	37.6	12111	30	1.11	45.5	42.9	1129	0	1.63	37.6	37.6
1130	110	1.56	35.5	34.4	12112	60	1.11	45.5	42.9	1130	110	1.56	35.5	34.4
1131	50	1.49	33.3	33.4	12113	20	2.21	56.6	52.2	1131	50	1.49	33.3	33.4
1132	110	1.56	35.5	35.0	12114	20	2.21	56.6	52.2	1132	110	1.56	35.5	35.0
1133	330	1.72	39.6	30.4	12115	60	1.11	45.5	42.9	1133	330	1.72	39.6	30.4
1134	340	1.89	43.3	26.8	12116	30	2.21	56.6	52.2	1134	340	1.89	43.3	26.8
1135	360	1.55	36.6	30.0	12117	270	1.11	45.5	42.9	1135	360	1.55	36.6	30.0
1136	340	1.83	42.1	33.3	12118	260	1.11	45.5	42.9	1136	340	1.83	42.1	33.3
1137	270	1.64	37.7	33.6	12119	260	1.11	45.5	42.9	1137	270	1.64	37.7	33.6
1138	150	1.69	38.9	33.0	12200	260	1.11	45.5	42.9	1138	150	1.69	38.9	33.0
1139	100	1.76	40.5	30.9	12201	260	1.11	45.5	42.9	1139	100	1.76	40.5	30.9
1140	300	1.71	39.4	32.6	12202	250	1.11	45.5	42.9	1140	300	1.71	39.4	32.6
1141	300	2.50	57.7	44.4	12203	260	1.11	45.5	42.9	1141	300	2.50	57.7	44.4
1142	300	1.11	40.8	25.9	12204	260	1.11	45.5	42.9	1142	300	1.11	40.8	25.9
1143	190	2.27	52.1	22.2	12205	260	1.11	45.5	42.9	1143	190	2.27	52.1	22.2
1144	300	1.11	40.8	30.0	12206	260	1.11	45.5	42.9	1144	300	1.11	40.8	30.0
1145	120	1.68	38.6	25.5	12207	260	1.11	45.5	42.9	1145	120	1.68	38.6	25.5
1146	120	2.05	47.7	25.5	12208	260	1.11	45.5	42.9	1146	120	2.05	47.7	25.5
1147	270	1.55	35.8	25.9	12209	260	1.11	45.5	42.9	1147	270	1.55	35.8	25.9
1148	130	1.81	41.6	24.4	12300	260	1.11	45.5	42.9	1148	130	1.81	41.6	24.4

TABLE 6A. PEAK LOADS FOR CONFIGURATION A :  
LARGEST VALUES OF CLADDING LOAD

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI- MUTH	PRESS COEFF	ABSOLUTE PEAK PSF	POSITIVE PEAK PSF	TAP	AZI- MUTH	PRESS COEFF	ABSOLUTE PEAK PSF	POSITIVE PEAK PSF	TAP	AZI- MUTH	PRESS COEFF	ABSOLUTE PEAK PSF	POSITIVE PEAK PSF
1409	1	1.1	36.1	33.0	1409	1	1.1	41.1	41.1	1409	1	1.1	36.1	33.0
1410	1	1.1	43.0	33.3	1410	1	1.1	50.0	48.0	1410	1	1.1	43.0	33.3
1411	1	1.1	44.0	32.2	1411	1	1.1	48.0	37.7	1411	1	1.1	44.0	32.2
1412	1	1.1	44.0	33.0	1412	1	1.1	52.0	29.9	1412	1	1.1	44.0	33.0
1413	1	1.1	44.0	33.1	1413	1	1.1	45.0	27.7	1413	1	1.1	44.0	33.1
1414	1	1.1	44.0	34.4	1414	1	1.1	50.0	19.9	1414	1	1.1	44.0	34.4
1415	1	1.1	44.0	33.1	1415	1	1.1	51.0	11.0	1415	1	1.1	44.0	33.1
1416	1	1.1	44.0	33.1	1416	1	1.1	44.0	9.5	1416	1	1.1	44.0	33.1
1417	1	1.1	44.0	33.0	1417	1	1.1	44.0	9.5	1417	1	1.1	44.0	33.0
1418	1	1.1	44.0	33.0	1418	1	1.1	43.0	7.7	1418	1	1.1	44.0	33.0
1419	1	1.1	44.0	33.3	1419	1	1.1	46.0	8.8	1419	1	1.1	44.0	33.3
1420	1	1.1	44.0	33.3	1420	1	1.1	46.0	8.8	1420	1	1.1	44.0	33.3
1421	1	1.1	44.0	33.3	1421	1	1.1	46.0	8.8	1421	1	1.1	44.0	33.3
1422	1	1.1	44.0	33.3	1422	1	1.1	47.0	9.9	1422	1	1.1	44.0	33.3
1423	1	1.1	44.0	33.3	1423	1	1.1	44.0	9.5	1423	1	1.1	44.0	33.3
1424	1	1.1	44.0	33.3	1424	1	1.1	44.0	9.5	1424	1	1.1	44.0	33.3
1425	1	1.1	44.0	33.3	1425	1	1.1	44.0	9.5	1425	1	1.1	44.0	33.3
1426	1	1.1	44.0	33.3	1426	1	1.1	44.0	9.5	1426	1	1.1	44.0	33.3
1427	1	1.1	44.0	33.3	1427	1	1.1	44.0	9.5	1427	1	1.1	44.0	33.3
1428	1	1.1	44.0	33.3	1428	1	1.1	44.0	9.5	1428	1	1.1	44.0	33.3
1429	1	1.1	44.0	33.3	1429	1	1.1	44.0	9.5	1429	1	1.1	44.0	33.3
1430	1	1.1	44.0	33.3	1430	1	1.1	44.0	9.5	1430	1	1.1	44.0	33.3
1431	1	1.1	44.0	33.3	1431	1	1.1	44.0	9.5	1431	1	1.1	44.0	33.3
1432	1	1.1	44.0	33.3	1432	1	1.1	44.0	9.5	1432	1	1.1	44.0	33.3
1433	1	1.1	44.0	33.3	1433	1	1.1	44.0	9.5	1433	1	1.1	44.0	33.3
1434	1	1.1	44.0	33.3	1434	1	1.1	44.0	9.5	1434	1	1.1	44.0	33.3
1435	1	1.1	44.0	33.3	1435	1	1.1	44.0	9.5	1435	1	1.1	44.0	33.3
1436	1	1.1	44.0	33.3	1436	1	1.1	44.0	9.5	1436	1	1.1	44.0	33.3
1437	1	1.1	44.0	33.3	1437	1	1.1	44.0	9.5	1437	1	1.1	44.0	33.3
1438	1	1.1	44.0	33.3	1438	1	1.1	44.0	9.5	1438	1	1.1	44.0	33.3
1439	1	1.1	44.0	33.3	1439	1	1.1	44.0	9.5	1439	1	1.1	44.0	33.3
1440	1	1.1	44.0	33.3	1440	1	1.1	44.0	9.5	1440	1	1.1	44.0	33.3
1441	1	1.1	44.0	33.3	1441	1	1.1	44.0	9.5	1441	1	1.1	44.0	33.3
1442	1	1.1	44.0	33.3	1442	1	1.1	44.0	9.5	1442	1	1.1	44.0	33.3
1443	1	1.1	44.0	33.3	1443	1	1.1	44.0	9.5	1443	1	1.1	44.0	33.3
1444	1	1.1	44.0	33.3	1444	1	1.1	44.0	9.5	1444	1	1.1	44.0	33.3
1445	1	1.1	44.0	33.3	1445	1	1.1	44.0	9.5	1445	1	1.1	44.0	33.3
1446	1	1.1	44.0	33.3	1446	1	1.1	44.0	9.5	1446	1	1.1	44.0	33.3
1447	1	1.1	44.0	33.3	1447	1	1.1	44.0	9.5	1447	1	1.1	44.0	33.3
1448	1	1.1	44.0	33.3	1448	1	1.1	44.0	9.5	1448	1	1.1	44.0	33.3
1449	1	1.1	44.0	33.3	1449	1	1.1	44.0	9.5	1449	1	1.1	44.0	33.3
1450	1	1.1	44.0	33.3	1450	1	1.1	44.0	9.5	1450	1	1.1	44.0	33.3
1451	1	1.1	44.0	33.3	1451	1	1.1	44.0	9.5	1451	1	1.1	44.0	33.3
1452	1	1.1	44.0	33.3	1452	1	1.1	44.0	9.5	1452	1	1.1	44.0	33.3
1453	1	1.1	44.0	33.3	1453	1	1.1	44.0	9.5	1453	1	1.1	44.0	33.3
1454	1	1.1	44.0	33.3	1454	1	1.1	44.0	9.5	1454	1	1.1	44.0	33.3
1455	1	1.1	44.0	33.3	1455	1	1.1	44.0	9.5	1455	1	1.1	44.0	33.3
1456	1	1.1	44.0	33.3	1456	1	1.1	44.0	9.5	1456	1	1.1	44.0	33.3
1457	1	1.1	44.0	33.3	1457	1	1.1	44.0	9.5	1457	1	1.1	44.0	33.3
1458	1	1.1	44.0	33.3	1458	1	1.1	44.0	9.5	1458	1	1.1	44.0	33.3
1459	1	1.1	44.0	33.3	1459	1	1.1	44.0	9.5	1459	1	1.1	44.0	33.3
1460	1	1.1	44.0	33.3	1460	1	1.1	44.0	9.5	1460	1	1.1	44.0	33.3



TABLE 6A. PEAK LOADS FOR CONFIGURATION A :  
LARGEST VALUES OF CLADDING LOAD

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK POSITIVE PEAK PSF	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK POSITIVE PEAK PSF	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK POSITIVE PEAK PSF	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK POSITIVE PEAK PSF
15	80	22	48.8	163	23	22	50.1	17	80	22	48.8	33	80	22	48.8
15	90	22	52.2	163	80	22	49.9	17	90	22	52.2	33	90	22	52.2
15	70	22	45.7	163	80	22	45.7	17	70	22	45.7	33	80	22	45.7
15	50	22	57.3	163	90	22	57.3	17	50	22	57.3	33	90	22	57.3
15	30	22	46.6	163	30	22	46.6	17	30	22	46.6	33	30	22	46.6
15	10	22	46.6	163	30	22	46.6	17	10	22	46.6	33	30	22	46.6
15	0	22	46.6	163	30	22	46.6	17	0	22	46.6	33	30	22	46.6
15	330	22	46.6	163	30	22	46.6	17	330	22	46.6	33	330	22	46.6
15	340	22	46.6	163	30	22	46.6	17	340	22	46.6	33	340	22	46.6
15	350	22	46.6	163	30	22	46.6	17	350	22	46.6	33	350	22	46.6
15	360	22	46.6	163	30	22	46.6	17	360	22	46.6	33	360	22	46.6
15	370	22	46.6	163	30	22	46.6	17	370	22	46.6	33	370	22	46.6
15	380	22	46.6	163	30	22	46.6	17	380	22	46.6	33	380	22	46.6
15	390	22	46.6	163	30	22	46.6	17	390	22	46.6	33	390	22	46.6
15	400	22	46.6	163	30	22	46.6	17	400	22	46.6	33	400	22	46.6
15	410	22	46.6	163	30	22	46.6	17	410	22	46.6	33	410	22	46.6
15	420	22	46.6	163	30	22	46.6	17	420	22	46.6	33	420	22	46.6
15	430	22	46.6	163	30	22	46.6	17	430	22	46.6	33	430	22	46.6
15	440	22	46.6	163	30	22	46.6	17	440	22	46.6	33	440	22	46.6
15	450	22	46.6	163	30	22	46.6	17	450	22	46.6	33	450	22	46.6
15	460	22	46.6	163	30	22	46.6	17	460	22	46.6	33	460	22	46.6
15	470	22	46.6	163	30	22	46.6	17	470	22	46.6	33	470	22	46.6
15	480	22	46.6	163	30	22	46.6	17	480	22	46.6	33	480	22	46.6
15	490	22	46.6	163	30	22	46.6	17	490	22	46.6	33	490	22	46.6
15	500	22	46.6	163	30	22	46.6	17	500	22	46.6	33	500	22	46.6
15	510	22	46.6	163	30	22	46.6	17	510	22	46.6	33	510	22	46.6
15	520	22	46.6	163	30	22	46.6	17	520	22	46.6	33	520	22	46.6
15	530	22	46.6	163	30	22	46.6	17	530	22	46.6	33	530	22	46.6
15	540	22	46.6	163	30	22	46.6	17	540	22	46.6	33	540	22	46.6
15	550	22	46.6	163	30	22	46.6	17	550	22	46.6	33	550	22	46.6
15	560	22	46.6	163	30	22	46.6	17	560	22	46.6	33	560	22	46.6
15	570	22	46.6	163	30	22	46.6	17	570	22	46.6	33	570	22	46.6
15	580	22	46.6	163	30	22	46.6	17	580	22	46.6	33	580	22	46.6
15	590	22	46.6	163	30	22	46.6	17	590	22	46.6	33	590	22	46.6
15	600	22	46.6	163	30	22	46.6	17	600	22	46.6	33	600	22	46.6
15	610	22	46.6	163	30	22	46.6	17	610	22	46.6	33	610	22	46.6
15	620	22	46.6	163	30	22	46.6	17	620	22	46.6	33	620	22	46.6
15	630	22	46.6	163	30	22	46.6	17	630	22	46.6	33	630	22	46.6
15	640	22	46.6	163	30	22	46.6	17	640	22	46.6	33	640	22	46.6
15	650	22	46.6	163	30	22	46.6	17	650	22	46.6	33	650	22	46.6
15	660	22	46.6	163	30	22	46.6	17	660	22	46.6	33	660	22	46.6
15	670	22	46.6	163	30	22	46.6	17	670	22	46.6	33	670	22	46.6
15	680	22	46.6	163	30	22	46.6	17	680	22	46.6	33	680	22	46.6
15	690	22	46.6	163	30	22	46.6	17	690	22	46.6	33	690	22	46.6
15	700	22	46.6	163	30	22	46.6	17	700	22	46.6	33	700	22	46.6
15	710	22	46.6	163	30	22	46.6	17	710	22	46.6	33	710	22	46.6
15	720	22	46.6	163	30	22	46.6	17	720	22	46.6	33	720	22	46.6
15	730	22	46.6	163	30	22	46.6	17	730	22	46.6	33	730	22	46.6
15	740	22	46.6	163	30	22	46.6	17	740	22	46.6	33	740	22	46.6
15	750	22	46.6	163	30	22	46.6	17	750	22	46.6	33	750	22	46.6
15	760	22	46.6	163	30	22	46.6	17	760	22	46.6	33	760	22	46.6
15	770	22	46.6	163	30	22	46.6	17	770	22	46.6	33	770	22	46.6
15	780	22	46.6	163	30	22	46.6	17	780	22	46.6	33	780	22	46.6
15	790	22	46.6	163	30	22	46.6	17	790	22	46.6	33	790	22	46.6
15	800	22	46.6	163	30	22	46.6	17	800	22	46.6	33	800	22	46.6
15	810	22	46.6	163	30	22	46.6	17	810	22	46.6	33	810	22	46.6
15	820	22	46.6	163	30	22	46.6	17	820	22	46.6	33	820	22	46.6
15	830	22	46.6	163	30	22	46.6	17	830	22	46.6	33	830	22	46.6
15	840	22	46.6	163	30	22	46.6	17	840	22	46.6	33	840	22	46.6
15	850	22	46.6	163	30	22	46.6	17	850	22	46.6	33	850	22	46.6
15	860	22	46.6	163	30	22	46.6	17	860	22	46.6	33	860	22	46.6
15	870	22	46.6	163	30	22	46.6	17	870	22	46.6	33	870	22	46.6
15	880	22	46.6	163	30	22	46.6	17	880	22	46.6	33	880	22	46.6
15	890	22	46.6	163	30	22	46.6	17	890	22	46.6	33	890	22	46.6
15	900	22	46.6	163	30	22	46.6	17	900	22	46.6	33	900	22	46.6
15	910	22	46.6	163	30	22	46.6	17	910	22	46.6	33	910	22	46.6
15	920	22	46.6	163	30	22	46.6	17	920	22	46.6	33	920	22	46.6
15	930	22	46.6	163	30	22	46.6	17	930	22	46.6	33	930	22	46.6
15	940	22	46.6	163	30	22	46.6	17	940	22	46.6	33	940	22	46.6
15	950	22	46.6	163	30	22	46.6	17	950	22	46.6	33	950	22	46.6
15	960	22	46.6	163	30	22	46.6	17	960	22	46.6	33	960	22	46.6
15	970	22	46.6	163	30	22	46.6	17	970	22	46.6	33	970	22	46.6
15	980	22	46.6	163	30	22	46.6	17	980	22	46.6	33	980	22	46.6
15	990	22	46.6	163	30	22	46.6	17	990	22	46.6	33	990	22	46.6
15	0	22	46.6	163	30	22	46.6	17	0	22	46.6	33	0	22	46.6

TABLE 6A. PEAK LOADS FOR CONFIGURATION A :  
LARGEST VALUES OF CLADDING LOAD

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK	POSITIVE PEAK
			PSF	PSF				PSF	PSF				PSF	PSF
18440	150	2.41	55.5	17.8	23306	2800	1.33	31.2	31.2	24432	80	.77	17.6	14.4
18441	150	2.35	54.1	20.4	22600	1.11	1.08	22.2	22.2	24433	60	.60	19.9	13.3
18442	140	2.08	47.8	24.9	22800	1.11	1.13	22.8	22.8	24434	110	.95	21.1	13.3
18443	140	2.09	48.1	26.6	22308	1.11	1.21	22.3	22.3	24435	160	1.15	22.6	15.3
18444	310	2.31	53.1	29.8	22309	1.11	1.21	22.3	22.3	24436	260	1.33	22.7	15.3
18445	100	1.56	34.6	19.3	22310	1.11	1.40	22.3	22.3	24437	180	1.11	22.2	14.4
18446	350	1.28	29.4	20.4	22311	1.11	1.10	22.3	22.3	24438	180	1.11	22.2	14.4
18447	350	1.99	45.9	21.1	22312	1.11	1.13	22.3	22.3	24439	180	1.11	22.2	14.4
18448	350	2.30	52.9	24.4	22313	1.11	1.21	22.3	22.3	24440	180	1.11	22.2	14.4
18449	350	2.63	60.6	22.2	22314	1.11	1.45	22.3	22.3	24441	180	1.11	22.2	14.4
18450	240	.78	17.9	15.1	22315	1.11	1.08	22.3	22.3	24442	200	1.11	22.0	14.4
18451	140	.89	20.5	20.5	22316	1.11	1.03	22.3	22.3	24443	200	1.11	22.0	14.4
18452	350	.85	19.9	19.9	22317	1.11	1.03	22.3	22.3	24444	200	1.11	22.0	14.4
18453	350	1.49	34.3	18.6	22318	1.11	1.07	22.3	22.3	24445	200	1.11	22.0	14.4
18454	340	1.90	43.8	19.0	22319	1.11	1.03	22.3	22.3	24446	110	1.11	22.0	14.4
18455	10	1.62	37.3	36.9	22320	1.11	1.08	22.3	22.3	24447	170	1.11	22.0	14.4
18456	220	2.02	46.5	17.9	22321	1.11	1.10	22.3	22.3	24448	70	1.11	22.2	14.4
18457	40	1.93	44.4	13.1	22322	1.11	1.08	22.3	22.3	24449	80	1.11	22.2	14.4
18458	310	1.98	45.5	20.3	22323	1.11	1.10	22.3	22.3	24450	80	1.11	22.2	14.4
18459	40	2.01	46.3	17.5	22401	1.11	1.11	22.4	22.4	24451	160	1.11	22.2	14.4
18460	55	1.79	41.1	11.1	22402	1.11	1.11	22.4	22.4	24452	160	1.11	22.2	14.4
18461	180	2.01	46.3	17.5	22403	1.11	1.11	22.4	22.4	24453	80	1.11	22.2	14.4
18462	160	2.34	53.8	12.3	22404	1.11	1.11	22.4	22.4	24454	80	1.11	22.2	14.4
18463	30	2.21	50.0	17.1	22405	1.11	1.11	22.4	22.4	24455	80	1.11	22.2	14.4
18464	20	1.75	40.2	28.0	22406	1.11	1.11	22.4	22.4	24456	80	1.11	22.2	14.4
18465	11	1.81	41.1	41.6	22407	1.11	1.11	22.4	22.4	24457	70	1.11	22.2	14.4
18466	220	1.46	33.5	33.5	22408	1.11	1.11	22.4	22.4	24458	120	1.11	22.0	14.4
18467	110	1.44	33.2	33.2	22409	1.11	1.11	22.4	22.4	24459	130	1.11	22.0	14.4
18468	110	2.48	57.7	14.8	22410	1.11	1.11	22.4	22.4	24460	130	1.11	22.0	14.4
18469	110	2.22	51.1	14.8	22411	1.11	1.11	22.4	22.4	24461	70	1.11	22.2	14.4
18470	70	1.46	33.3	33.3	22412	1.11	1.11	22.4	22.4	24462	110	1.11	22.2	14.4
18471	280	1.76	40.4	36.4	22413	1.11	1.11	22.4	22.4	24463	60	1.11	22.0	14.4
18472	0	1.64	37.7	18.6	22414	1.11	1.11	22.4	22.4	24464	50	1.11	22.0	14.4
18473	0	1.44	33.3	33.3	22415	1.11	1.11	22.4	22.4	24465	60	1.11	22.0	14.4
18474	280	1.76	40.4	36.4	22416	1.11	1.11	22.4	22.4	24466	110	1.11	22.2	14.4
18475	0	1.44	33.3	33.3	22417	1.11	1.11	22.4	22.4	24467	110	1.11	22.2	14.4
18476	240	2.00	46.1	10.9	22418	1.11	1.11	22.4	22.4	24468	260	1.11	22.4	14.4
18477	6	2.78	63.8	25.8	22419	1.11	1.11	22.4	22.4	24469	180	1.11	22.0	14.4
18478	220	2.00	46.1	10.9	22420	1.11	1.11	22.4	22.4	24470	70	1.11	22.2	14.4
18479	55	2.27	55.5	14.3	22421	1.11	1.11	22.4	22.4	24471	60	1.11	22.0	14.4
18480	190	2.08	47.7	17.7	22422	1.11	1.11	22.4	22.4	24472	230	1.11	22.4	14.4
18481	30	1.86	42.8	15.0	22423	1.11	1.11	22.4	22.4	24473	70	1.11	22.2	14.4
18482	330	2.59	65.5	21.9	22424	1.11	1.11	22.4	22.4	24474	70	1.11	22.2	14.4
18483	20	1.59	36.6	33.3	22425	1.11	1.11	22.4	22.4	24475	70	1.11	22.2	14.4
18484	10	1.68	38.0	14.4	22426	1.11	1.11	22.4	22.4	24476	90	1.11	22.0	14.4
18485	330	1.17	22.6	22.6	22427	1.11	1.11	22.4	22.4	24477	240	1.11	22.4	14.4
18486	240	1.27	29.3	22.9	22428	1.11	1.11	22.4	22.4	24478	60	1.11	22.0	14.4
18487	80	1.18	27.7	27.7	22429	1.11	1.11	22.4	22.4	24479	90	1.11	22.0	14.4
18488	0	1.18	27.7	27.7	22430	1.11	1.11	22.4	22.4	24480	60	1.11	22.0	14.4
18489	44	1.11	22.6	22.6	22431	1.11	1.11	22.4	22.4	24481	240	1.11	22.4	14.4
18490	40	1.15	26.4	23.6	22432	1.11	1.11	22.4	22.4	24482	60	1.11	22.0	14.4



TABLE 6A. PEAK LOADS FOR CONFIGURATION A :  
LARGEST VALUES OF CLADDING LOAD

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK		TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK		TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK	
			PSF	PSF				PSF	PSF				PSF	PSF
26116	210	1.15	26.5	22.6	2724	120	1.11	25.5	25.5	2822	200	1.12	25.8	15.4
26117	60	1.17	26.9	21.3	2725	50	.78	17.9	16.6	2823	200	.90	20.8	16.8
26118	70	1.72	39.6	23.4	2726	150	.85	19.6	19.6	2824	340	.92	21.2	16.0
26119	70	1.77	40.0	24.1	2727	50	1.14	26.3	16.7	2901	180	1.34	30.7	30.7
26220	70	.86	19.7	13.9	2728	40	1.16	26.8	17.1	2902	120	1.72	39.6	34.9
26221	170	.74	16.9	16.9	2729	40	1.14	26.2	16.7	2903	70	1.02	23.4	21.8
26222	50	.94	21.1	19.7	2730	40	1.23	28.4	16.0	2904	70	1.29	29.6	23.7
26223	60	1.31	33.7	21.0	2731	190	.86	19.8	17.1	2905	240	1.30	30.0	30.0
26224	80	1.25	30.9	20.0	2732	180	1.05	24.2	19.6	2906	210	1.04	23.9	23.9
26225	260	.95	22.7	16.3	2733	140	.80	18.4	18.4	2907	260	1.37	31.5	31.5
26226	220	1.15	22.6	17.8	2734	70	.95	21.8	19.0	2908	260	1.33	30.7	30.7
26227	60	1.11	21.4	17.8	2735	60	1.09	25.0	23.8	2909	340	1.18	27.2	25.8
26228	60	1.11	21.5	17.4	2736	50	1.75	40.3	20.7	2910	80	1.22	28.2	18.9
26229	40	1.11	23.3	17.7	2737	220	.93	21.3	16.8	2911	260	1.53	35.1	25.0
27001	220	1.11	23.9	26.5	2738	140	.78	17.9	17.9	2912	340	1.39	32.0	19.8
27002	240	1.11	25.8	24.4	2739	320	.65	14.9	14.0	2913	340	1.56	35.9	20.8
27003	180	1.11	26.6	28.8	2801	200	2.87	65.9	24.4	2914	150	1.32	30.4	30.4
27004	190	1.11	28.4	25.2	2802	170	2.31	53.2	29.1	2915	340	1.96	45.0	20.2
27005	200	1.11	30.6	27.4	2803	340	1.67	38.4	35.7	2916	330	1.52	34.9	19.8
27006	0	1.11	33.3	21.8	2804	340	1.70	39.1	28.1	2917	200	1.63	37.4	37.4
27007	70	1.11	32.2	23.8	2805	190	2.08	47.8	22.4	2918	80	1.98	45.6	23.9
27008	140	1.11	35.5	25.8	2806	170	2.05	47.1	31.0	2919	70	1.92	44.2	20.1
27009	70	1.11	35.4	25.8	2807	350	1.67	38.3	26.1	2920	180	2.44	56.2	30.0
27110	340	1.11	33.3	24.6	2808	350	1.71	39.4	32.1	2921	180	1.90	43.8	25.1
27111	340	1.11	34.4	25.9	2809	340	1.69	39.0	19.8	2922	60	2.30	52.8	34.2
27112	340	1.11	35.6	25.6	2810	190	1.45	33.3	24.2	2923	70	1.16	26.7	23.8
27113	130	1.11	35.3	25.3	2811	190	1.45	33.4	22.5	2924	60	1.55	35.6	22.8
27114	340	1.11	35.5	26.0	2812	180	1.06	24.4	17.5	2925	180	2.24	51.1	25.8
27115	350	1.11	34.4	27.7	2813	340	1.07	24.5	16.4	2926	250	1.23	28.2	28.0
27116	350	1.11	27.7	27.5	2814	350	1.06	24.4	15.7	2927	100	1.22	28.1	28.1
27117	0	1.11	33.7	26.0	2815	200	1.97	45.2	21.2	2928	110	1.25	28.8	28.8
27118	120	1.11	31.7	27.7	2816	190	1.59	36.6	20.7	2930	130	.95	21.8	21.8
27119	350	1.11	31.1	27.7	2817	190	1.12	25.8	18.8	2931	120	.90	20.6	20.6
27220	130	1.11	32.2	22.9	2818	350	1.07	24.6	16.0	2932	100	.90	20.6	20.6
27221	350	1.11	32.6	22.9	2819	190	1.11	25.4	13.1	2933	120	.98	22.6	22.6
27222	350	1.11	33.0	22.1	2820	170	1.36	31.1	13.5	2934	160	1.45	33.4	17.4
27223	350	1.11	32.0	25.5	2821	170	1.49	27.2	13.4	2935	170	.76	17.4	13.7

TABLE 6A. PEAK LOADS FOR CONFIGURATION B :  
LARGEST VALUES OF CLADDING LOAD

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE = 23.0 PSF

TAP	AZI- MUTH	PRESS COEFF	ABSOLUTE POSITIVE		TAP	AZI- MUTH	PRESS COEFF	ABSOLUTE POSITIVE		TAP	AZI- MUTH	PRESS COEFF	ABSOLUTE POSITIVE	
			PEAK ----- PSF	PEAK -----				PEAK ----- PSF	PEAK -----				PEAK ----- PSF	PEAK -----
1209	260	2.22	51.1	34.3	1430	182	2.74	63.1	24.2	1849	348	2.10	48.2	23.0
1220	276	2.37	54.6	36.9	1619	88	2.65	61.0	24.2	1922	6	2.36	54.3	14.0
1419	174	2.71	62.2	29.3	1630	90	2.45	56.3	34.4	1928	4	2.82	64.8	19.8
1429	342	2.68	61.7	29.8	1640	252	2.98	68.6	32.3	2801	182	2.72	62.6	26.6

TABLE 6B. COMPARISON OF CONFIGURATIONS A AND B 1 U.S. STEEL GRANT STREET BUILDING  
TAPS WHERE ABSOLUTE PEAK LOAD FOR CONFIG. B EXCEEDED THAT FOR CONFIG. A BY 5 PSF  
REF. PRESSURE = 23.0 PSF

TAP	AZIMUTH	A CONFIG. PSF LOAD	AZIMUTH	B CONFIG. PSF LOAD
1640	270	63.3	252	68.6

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : U.S. STEEL GRANT STREET BUILDING  
 CONFIGURATION A REFERENCE PRESSURE 23.0 GUST FACTOR 1.32

AZIMUTH DEGREES	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
0	-1671.7	-763.8	357.8	-754.9	29.7
10	-955.7	-560.4	272.1	-400.8	17.5
20	-545.4	-53.5	28.1	-218.8	5.4
30	-860.8	428.9	-178.9	-366.5	-13.5
40	-1705.8	707.1	-276.8	-707.9	-20.0
50	-2227.3	827.1	-303.2	-891.4	-40.5
60	-2470.7	1070.4	-390.2	-955.3	-51.2
70	-2661.3	1309.7	-472.7	-995.5	-57.2
80	-2554.1	1411.0	-515.4	-968.8	-55.4
90	-2331.8	1438.6	-540.0	-884.6	-47.8
100	-1497.7	1507.1	-579.4	-530.5	-44.1
110	-851.1	1571.6	-598.0	-270.1	-43.0
120	-214.3	1707.4	-630.0	-111.1	-43.4
130	552.6	1581.9	-592.8	269.2	-25.2
140	1349.2	1479.7	-540.8	573.3	-4.4
150	2056.4	1438.6	-536.5	855.0	2.0
160	2487.7	1191.9	-473.7	1010.9	4.4
170	2551.8	809.7	-360.1	985.5	5.9
180	2486.2	418.8	-226.6	937.7	6.6
190	2446.6	130.2	-112.2	999.9	6.4
200	2333.4	-25.7	-55.3	914.8	6.6
210	2045.7	-189.5	12.0	813.3	6.8
220	1916.7	-291.3	61.9	800.0	6.6
230	1737.7	-783.7	287.2	775.5	6.7
240	1763.9	-1067.2	399.6	792.2	4.4
250	1988.4	-1157.6	438.8	991.4	0.0
260	1800.2	-1096.0	440.0	846.6	0.0
270	1373.3	-998.4	430.7	663.9	0.0
280	795.0	-1000.0	452.0	360.0	0.0
290	176.2	-1031.1	470.0	36.0	0.0
300	-126.8	-1007.3	471.9	55.5	0.0
310	-493.7	-1069.9	500.0	20.0	0.0
320	88.3	-1006.3	468.8	-40.9	0.0
330	811.7	-1012.2	456.6	-66.2	0.0
340	116.6	-927.9	413.3	-44.7	0.0
350	99.5	-899.8	399.9	8.3	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 0

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00											
2	11.00											
3	22.00											
4	33.00											
5	44.00											
6	55.00											
7	66.00											
8	77.00											
9	88.00											
10	99.00											
11	110.00											
12	121.00											
13	132.00											
14	143.00											
15	154.00											
16	165.00											
17	176.00											
18	187.00											
19	198.00											
20	209.00											
21	220.00											
22	231.00											
23	242.00											
24	253.00											
25	264.00											
26	275.00											
27	286.00											
28	297.00											
29	308.00											
30	319.00											
31	330.00											
32	341.00											
33	352.00											
34	363.00											
35	374.00											
36	385.00											
37	396.00											
38	407.00											
39	418.00											
40	429.00											
41	440.00											
42	451.00											
43	462.00											
44	473.00											
45	484.00											
46	495.00											
47	506.00											
48	517.00											
49	528.00											
50	539.00											
51	550.00											
52	561.00											
53	572.00											
54	583.00											
55	594.00											
56	605.00											
57	616.00											
58	627.00											
59	638.00											
60	649.00											
61	660.00											
62	671.00											
63	682.00											
64	693.00											
65	704.00											
66	715.00											
67	726.00											
68	737.00											
69	748.00											
70	759.00											
71	770.00											
72	781.00											
73	792.00											
74	803.00											
75	814.00											
76	825.00											
77	836.00											
78	847.00											
79	858.00											
80	869.00											
81	880.00											
82	891.00											
83	902.00											
84	913.00											
85	924.00											
86	935.00											
87	946.00											
88	957.00											
89	968.00											
90	979.00											
91	990.00											
92	1001.00											
93	1012.00											
94	1023.00											
95	1034.00											
96	1045.00											
97	1056.00											
98	1067.00											
99	1078.00											
100	1089.00											

TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
WIND DIRECTION 0		CONFIGURATION A				U. S. STEEL GRANT STREET BUILDING REFERENCE PRESSURE 23.0 PSF				GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-71.5	-33.9	5461	3970	-13.1	-8.5	-112.6	-56.3	1.3	-2.5	2.1
ROOF	692.80	-41.1	-22.4	3280	2000	-12.5	-11.2	-41.1	-22.4	.3	-.5	.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 10

MOMENT DIAGRAMS ;  
CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-8.1	.9	2227	2951	.3	.3	-9.5	5.7	272.1	-408.8	17.5
2	3.33	-13.7	.4	4084	5233	.1	.1	-9.4	4.7	265.9	-398.4	17.6
3	6.66	-7.8	.8	2600	3089	.9	.9	-9.3	3.4	255.0	-380.0	17.7
4	10.00	-7.7	.3	2666	3006	.6	.6	-9.1	3.6	248.2	-357.7	17.3
5	13.33	-1.6	-1.1	3450	3420	.0	.0	-9.1	1.1	234.7	-346.6	16.9
6	16.66	-1.7	-1.9	3450	3420	.0	.0	-9.1	1.9	228.0	-335.9	16.9
7	20.00	-1.1	-2.0	3450	3420	.0	.0	-9.0	2.0	221.3	-325.0	16.6
8	23.33	-1.1	-2.0	3450	3420	.0	.0	-9.0	2.0	214.6	-314.1	16.6
9	26.66	-1.1	-1.9	3450	3420	.0	.0	-9.0	1.9	208.0	-303.3	16.4
10	30.00	-1.1	-1.9	3450	3420	.0	.0	-9.0	1.9	201.4	-292.2	16.1
11	33.33	-1.1	-1.5	4172	4125	.4	.4	-8.9	1.5	194.7	-281.1	15.8
12	36.66	-1.4	1.1	2966	2899	.6	.6	-8.8	1.1	187.7	-268.8	16.1
13	40.00	-1.1	2.2	3499	3371	.7	.7	-8.8	2.2	181.5	-260.0	16.5
14	43.33	-1.1	1.1	3440	3333	.9	.9	-8.8	1.1	174.4	-249.4	16.5
15	46.66	-1.1	1.1	4024	3333	.9	.9	-8.8	1.1	168.2	-238.8	16.6
16	50.00	-1.1	1.1	5837	5788	.0	.0	-8.8	1.1	160.0	-226.6	16.9
17	53.33	-1.1	-1.1	2233	1666	.5	.5	-8.8	1.1	146.9	-205.7	16.4
18	56.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	141.1	-197.7	16.6
19	60.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	134.4	-187.7	16.1
20	63.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	128.3	-177.7	15.5
21	66.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	121.1	-168.8	15.5
22	70.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	115.6	-158.8	14.9
23	73.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	109.9	-149.9	14.6
24	76.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	103.3	-140.8	14.3
25	80.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	97.7	-132.1	14.1
26	83.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	91.6	-123.3	13.9
27	86.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	85.5	-115.5	13.5
28	90.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	80.0	-107.7	13.2
29	93.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	74.4	-100.0	12.9
30	96.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	69.9	-92.2	12.6
31	100.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	64.4	-85.5	12.3
32	103.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	59.9	-79.9	12.0
33	106.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	55.5	-72.2	11.7
34	110.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	50.0	-66.6	11.4
35	113.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	46.2	-60.0	11.1
36	116.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	42.2	-55.5	10.8
37	120.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	38.3	-49.9	10.5
38	123.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	34.4	-44.4	10.2
39	126.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	30.5	-40.0	9.9
40	130.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	26.6	-35.5	9.6
41	133.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	22.7	-32.2	9.3
42	136.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	18.8	-28.8	9.0
43	140.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	14.9	-25.5	8.7
44	143.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	11.0	-22.2	8.4
45	146.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	7.1	-18.8	8.1
46	150.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	3.2	-15.5	7.8
47	153.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	-12.2	7.5
48	156.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	-9.9	7.2
49	160.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	-7.7	6.9
50	163.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	-5.5	6.6
51	166.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	-3.3	6.3
52	170.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	-1.1	6.0
53	173.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	5.7
54	176.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	5.4
55	180.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	5.1
56	183.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	4.8
57	186.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	4.5
58	190.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	4.2
59	193.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	3.9
60	196.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	3.6
61	200.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	3.3
62	203.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	3.0
63	206.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	2.7
64	210.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	2.4
65	213.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	2.1
66	216.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	1.8
67	220.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	1.5
68	223.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	1.2
69	226.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.9
70	230.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.6
71	233.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.3
72	236.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
73	240.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
74	243.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
75	246.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
76	250.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
77	253.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
78	256.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
79	260.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
80	263.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
81	266.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
82	270.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
83	273.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
84	276.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
85	280.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
86	283.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
87	286.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
88	290.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
89	293.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
90	296.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
91	300.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
92	303.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
93	306.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
94	310.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
95	313.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
96	316.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
97	320.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
98	323.33	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
99	326.66	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0
100	330.00	-1.1	-1.1	2682	2000	.2	.2	-8.8	1.1	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 10

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT 1000-FT-KIPS
MECH	666.50	-34.9	-25.1	5461	3970	-6.4	-6.3	-60.7	-42.3	1.0	-1.4	1.2
ROOF	692.80	-25.8	-17.3	3280	2000	-7.9	-8.6	-25.8	-17.3	.2	-.3	.5



TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 20

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
53	654	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
52	644	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
51	630	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
50	618	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
49	606	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
48	594	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
47	582	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
46	570	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
45	558	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
44	546	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
43	534	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
42	522	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
41	510	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
40	498	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
39	486	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
38	474	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
37	462	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
36	450	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
35	438	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
34	426	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
33	414	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
32	402	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
31	390	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
30	378	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
29	366	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
28	354	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
27	342	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
26	330	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
25	318	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
24	306	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
23	294	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
22	282	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
21	270	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
20	258	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
19	246	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
18	234	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
17	222	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
16	210	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
15	198	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
14	186	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
13	174	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
12	162	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
11	150	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
10	138	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
9	126	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
8	114	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
7	102	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
6	90	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
5	78	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
4	66	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
3	54	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
2	42	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4
1	30	1.1	1.1	2227	2951	3.3	1.1	5.4	5.3	2.8	2.8	4.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 20		CONFIGURATION A								REFERENCE PRESSURE 23.0 PSF		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-17.9	-4.0	5461	3970	-3.3	-1.0	-32.2	-5.9	.1	-.8	.1
ROOF	692.80	-14.3	-1.9	3280	2000	-4.4	-.9	-14.3	-1.9	.0	-.2	.1



TABLE 7. SHEAR AND MOMENT DIAGRAMS : U.S. STEEL GRANT STREET BUILDING  
WIND DIRECTION 30 CONFIGURATION A REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT 1000-FT-KIPS
MECH	666.50	-38.0	7.9	5461	3970	-7.0	2.0	-65.1	14.1	-.3	-1.5	-1.2
ROOF	692.80	-27.1	6.3	3280	2000	-8.3	3.1	-27.1	6.3	-.1	-.3	-.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS  
WIND DIRECTION 40

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0	0.00	3.8	2227	2951	-8.3	1.3	-17.0	707.1	-276.8	-707.9	-28.8
2	11	11.00	6.7	4084	5231	-7.7	1.3	-16.6	703.2	-269.0	-689.3	-27.7
3	30	30.00	5.1	2600	3089	-7.0	1.6	-16.6	696.5	-255.4	-656.7	-26.1
4	42	42.00	5.0	2666	3089	-6.4	1.6	-16.6	691.4	-247.7	-636.9	-25.3
5	54	54.00	4.1	3006	3356	-4.8	1.2	-16.2	686.4	-238.8	-617.4	-24.7
6	66	66.00	3.9	3450	3420	-2.6	1.1	-16.2	682.4	-230.8	-598.0	-24.1
7	78	78.00	3.8	3450	3420	0.0	1.1	-15.9	678.5	-222.4	-578.8	-23.5
8	90	90.00	3.8	3450	3420	0.0	1.1	-15.9	674.7	-214.4	-559.7	-23.0
9	102	102.00	3.8	3450	3420	0.0	1.1	-15.9	670.8	-206.6	-540.7	-22.5
10	114	114.00	4.1	3450	3420	0.0	1.1	-15.9	666.7	-198.8	-521.8	-22.0
11	126	126.00	4.4	3450	3420	0.0	1.2	-15.9	662.6	-190.0	-503.1	-21.5
12	138	138.00	8.5	4172	4125	3.3	2.2	-15.9	658.5	-182.2	-484.4	-21.0
13	152	152.00	7.8	2960	2898	4.4	2.2	-15.9	654.4	-173.3	-463.3	-20.5
14	162	162.00	10.9	3499	3417	5.1	2.2	-15.9	650.2	-166.6	-447.7	-20.0
15	174	174.00	12.3	3440	3379	5.4	2.2	-15.9	646.1	-159.9	-429.9	-19.5
16	186	186.00	16.8	4024	3940	9.9	3.3	-15.9	642.0	-151.1	-412.0	-19.0
17	200	200.00	26.2	5837	5781	16.8	4.4	-15.9	637.9	-142.2	-391.1	-18.5
18	222	222.00	29.9	2235	1668	16.8	5.5	-15.9	633.8	-133.3	-376.7	-18.0
19	244	244.00	30.0	2235	2000	16.8	6.6	-15.9	629.7	-124.4	-362.3	-17.5
20	266	266.00	13.1	2235	2000	8.8	5.5	-15.9	625.6	-115.5	-347.9	-17.0
21	288	288.00	14.2	2682	2000	4.4	6.6	-15.9	621.5	-106.6	-333.5	-16.5
22	294	294.00	15.3	2682	2000	8.8	6.6	-15.9	617.4	-97.7	-319.1	-16.0
23	306	306.00	16.3	2682	2000	8.8	6.6	-15.9	613.3	-88.8	-304.7	-15.5
24	318	318.00	17.4	2682	2000	8.8	6.6	-15.9	609.2	-79.9	-290.3	-15.0
25	330	330.00	17.7	2682	2000	8.8	6.6	-15.9	605.1	-71.0	-275.9	-14.5
26	342	342.00	17.7	2682	2000	8.8	6.6	-15.9	601.0	-62.1	-261.5	-14.0
27	354	354.00	17.9	2682	2000	8.8	6.6	-15.9	596.9	-53.2	-247.1	-13.5
28	377	377.00	18.8	2682	2000	9.9	6.6	-15.9	592.8	-44.3	-232.7	-13.0
29	399	399.00	19.0	2682	2000	8.8	6.6	-15.9	588.7	-35.4	-218.3	-12.5
30	402	402.00	16.9	2682	2000	8.8	6.6	-15.9	584.6	-26.5	-203.9	-12.0
31	414	414.00	16.5	2682	2000	8.8	6.6	-15.9	580.5	-17.6	-189.5	-11.5
32	426	426.00	16.1	2682	2000	8.8	6.6	-15.9	576.4	-8.7	-175.1	-11.0
33	438	438.00	15.6	2682	2000	8.8	6.6	-15.9	572.3	0.2	-160.7	-10.5
34	450	450.00	15.4	2682	2000	8.8	6.6	-15.9	568.2	11.3	-146.3	-10.0
35	462	462.00	15.3	2682	2000	8.8	6.6	-15.9	564.1	22.4	-131.9	-9.5
36	474	474.00	15.3	2682	2000	8.8	6.6	-15.9	560.0	33.5	-117.5	-9.0
37	486	486.00	15.2	2682	2000	8.8	6.6	-15.9	555.9	44.6	-103.1	-8.5
38	498	498.00	15.0	2682	2000	8.8	6.6	-15.9	551.8	55.7	-88.7	-8.0
39	510	510.00	14.7	2682	2000	8.8	6.6	-15.9	547.7	66.8	-74.3	-7.5
40	522	522.00	14.4	2682	2000	8.8	6.6	-15.9	543.6	77.9	-59.9	-7.0
41	534	534.00	14.4	2682	2000	8.8	6.6	-15.9	539.5	89.0	-45.5	-6.5
42	546	546.00	14.4	2682	2000	8.8	6.6	-15.9	535.4	100.1	-31.1	-6.0
43	558	558.00	14.3	2682	2000	8.8	6.6	-15.9	531.3	111.2	-16.7	-5.5
44	570	570.00	14.3	2682	2000	8.8	6.6	-15.9	527.2	122.3	-2.3	-5.0
45	582	582.00	14.3	2682	2000	8.8	6.6	-15.9	523.1	133.4	12.1	-4.5
46	594	594.00	14.2	2682	2000	8.8	6.6	-15.9	519.0	144.5	26.7	-4.0
47	606	606.00	14.2	2682	2000	8.8	6.6	-15.9	514.9	155.6	41.3	-3.5
48	618	618.00	14.1	2682	2000	8.8	6.6	-15.9	510.8	166.7	55.9	-3.0
49	630	630.00	14.1	2682	2000	8.8	6.6	-15.9	506.7	177.8	70.5	-2.5
50	642	642.00	14.1	2682	2000	8.8	6.6	-15.9	502.6	188.9	85.1	-2.0
51	654	654.00	14.0	2682	2000	8.8	6.6	-15.9	498.5	200.0	99.7	-1.5

U.S. STEEL GRANT STREET BUILDING														
TABLE 7. SHEAR AND MOMENT DIAGRAM :		CONFIGURATION A								REFERENCE PRESSURE 23.0 PSF		GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT		
WIND DIRECTION 40														
MECH	666.50	-65.4	14.0	5461	3970	-12.0	3.5	-107.7	28.7	-.7	-2.5	-1.9		
ROOF	692.80	-42.3	14.7	3280	2000	-12.9	7.4	-42.3	14.7	-.2	-.5	-.6		

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 50

U. S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-25.0	4.7	2227	2951	-11.2	1.6	-22.7	827.1	-33.0	891.4	-40.5
2	11.00	-42.1	9.6	4084	5231	-10.3	1.8	-22.2	822.4	-29.4	887.7	-39.1
3	30.00	-24.2	7.7	2600	3089	-9.3	2.4	-21.6	812.8	-27.8	882.4	-37.7
4	42.50	-22.2	7.7	2666	3089	-8.6	2.5	-21.3	805.5	-26.8	877.3	-36.6
5	54.50	-22.2	8.4	3006	3355	-8.0	2.2	-21.1	797.9	-25.8	872.2	-35.5
6	66.50	-17.7	8.4	3450	3420	-7.7	2.2	-20.9	789.4	-24.9	867.1	-34.3
7	78.50	-18.5	8.5	3450	3420	-7.7	2.2	-20.5	772.6	-23.0	862.0	-33.1
8	90.50	-19.2	8.5	3450	3420	-7.7	2.2	-20.3	764.7	-22.1	856.9	-32.0
9	102.50	-19.8	8.5	3450	3420	-7.7	2.2	-20.3	755.5	-21.2	851.8	-30.8
10	114.50	-20.4	8.6	3450	3420	-7.7	2.2	-20.3	747.7	-20.3	846.7	-29.7
11	126.50	-21.5	8.8	4172	4125	-6.6	2.2	-19.9	738.1	-19.4	841.6	-28.6
12	138.50	-21.8	9.3	4172	4125	-6.6	2.2	-19.9	723.7	-18.4	836.5	-27.5
13	150.50	-21.1	11.1	2960	2898	-7.7	4.4	-19.4	711.9	-17.6	831.4	-26.4
14	162.50	-22.7	11.1	3450	3417	-7.7	4.4	-19.2	695.9	-16.8	826.3	-25.3
15	174.50	-22.8	12.1	3440	3377	-8.0	2.2	-19.1	678.8	-16.0	821.2	-24.2
16	186.50	-32.5	12.1	4024	3940	-8.0	2.2	-18.8	654.4	-15.5	816.1	-23.1
17	200.00	-62.2	12.1	5037	5781	-10.0	2.2	-18.3	607.7	-13.3	806.9	-20.0
18	220.00	-25.3	12.1	1668	1668	-11.3	3.3	-17.7	618.4	-12.2	801.8	-18.9
19	234.00	-32.2	13.3	2682	2000	-11.1	4.4	-17.4	607.7	-11.9	796.7	-17.8
20	246.00	-33.3	14.3	2682	2000	-12.2	4.4	-17.1	593.9	-11.1	791.6	-16.7
21	255.00	-35.5	14.3	2682	2000	-13.3	4.4	-16.7	577.9	-11.1	786.5	-15.6
22	270.00	-37.7	16.6	2682	2000	-14.3	4.4	-16.4	563.3	-10.8	781.4	-14.5
23	280.00	-39.9	17.6	2682	2000	-14.3	4.4	-16.4	554.6	-10.1	776.3	-13.4
24	294.00	-40.9	19.9	2682	2000	-15.5	4.4	-15.6	528.8	-9.5	771.2	-12.3
25	306.00	-41.1	20.0	2682	2000	-15.5	4.4	-15.6	509.9	-9.1	766.1	-11.2
26	318.00	-42.2	20.0	2682	2000	-15.5	4.4	-14.8	490.0	-8.2	761.0	-10.1
27	330.00	-43.3	20.0	2682	2000	-15.5	4.4	-14.8	470.0	-8.2	755.9	-9.0
28	342.00	-43.3	20.0	2682	2000	-16.6	4.4	-14.4	451.1	-7.7	750.8	-7.9
29	354.00	-44.4	20.0	2682	2000	-16.6	4.4	-13.3	431.1	-7.1	745.7	-6.8
30	366.00	-44.4	20.0	2682	2000	-16.6	4.4	-13.3	412.2	-6.6	740.6	-5.7
31	378.00	-45.5	20.0	2682	2000	-16.6	4.4	-12.2	392.2	-5.5	735.5	-4.6
32	390.00	-45.5	20.0	2682	2000	-17.7	4.4	-11.7	372.2	-5.5	730.4	-3.5
33	402.00	-46.6	20.0	2682	2000	-17.7	4.4	-11.7	353.3	-4.7	725.3	-2.4
34	414.00	-46.6	20.0	2682	2000	-17.7	4.4	-11.7	335.3	-4.4	720.2	-1.3
35	426.00	-46.6	20.0	2682	2000	-17.7	4.4	-11.7	318.8	-4.4	715.1	-0.2
36	438.00	-47.7	20.0	2682	2000	-17.7	4.4	-11.2	301.1	-4.4	710.0	0.9
37	450.00	-47.7	20.0	2682	2000	-17.7	4.4	-11.2	284.4	-4.4	704.9	2.0
38	462.00	-47.7	20.0	2682	2000	-17.7	4.4	-9.9	266.8	-4.4	699.8	3.1
39	474.00	-47.7	20.0	2682	2000	-17.7	4.4	-8.4	248.4	-4.4	694.7	4.2
40	486.00	-48.8	20.0	2682	2000	-18.8	4.4	-7.7	230.7	-4.4	689.6	5.3
41	498.00	-49.7	20.0	3364	4004	-18.8	4.4	-7.7	212.1	-4.4	684.5	6.4
42	510.00	-49.9	20.0	2682	2000	-18.8	4.4	-7.0	189.9	-4.4	679.4	7.5
43	522.00	-49.9	20.0	2682	2000	-18.8	4.4	-6.5	174.4	-4.4	674.3	8.6
44	534.00	-49.9	20.0	2682	2000	-18.8	4.4	-6.0	158.8	-4.4	669.2	9.7
45	546.00	-49.9	20.0	2682	2000	-18.8	4.4	-5.5	143.3	-4.4	664.1	10.8
46	558.00	-49.9	20.0	2682	2000	-18.8	4.4	-5.0	127.7	-4.4	659.0	11.9
47	570.00	-49.9	20.0	2682	2000	-18.8	4.4	-4.5	112.2	-4.4	653.9	13.0
48	582.00	-49.9	20.0	2682	2000	-18.8	4.4	-4.0	97.7	-4.4	648.8	14.1
49	594.00	-49.9	20.0	2682	2000	-18.8	4.4	-4.0	82.2	-4.4	643.7	15.2
50	606.00	-49.9	20.0	2682	2000	-18.8	4.4	-4.0	66.7	-4.4	638.6	16.3
51	618.00	-49.9	20.0	2682	2000	-18.8	4.4	-4.0	51.2	-4.4	633.5	17.4
52	630.00	-55.5	20.0	3391	2550	-16.6	4.4	-4.0	35.7	-4.4	628.4	18.5
53	642.00	-35.5	4.4	3349	1788	-14.3	1.6	-4.0	20.2	-4.4	623.3	19.6
54	654.00	-40.0	4.4	6399	2019	-14.3	1.6	-4.0	4.7	-4.4	618.2	20.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
WIND DIRECTION 50		CONFIGURATION A				U. S. STEEL GRANT STREET BUILDING				GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-78.1	14.9	5461	3970	-14.3	3.7	-124.6	25.9	-.6	-2.8	-1.9
ROOF	692.80	-46.5	11.1	3280	2000	-14.2	5.5	-46.5	11.1	-.1	-.6	-.6



TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 60

CONFIGURATION A

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
	0	-27.4	6.5	2227	2951	-12.3	2.2	-247.7	107.4	-39.2	-95.3	-5.1
	11	-46.5	13.4	4084	3231	-11.5	2.2	-244.4	106.3	-37.8	-92.6	-4.9
	22	-27.5	9.5	2600	2331	-10.0	2.2	-227.1	105.0	-35.7	-87.9	-4.7
	33	-26.6	10.3	2666	3356	-10.0	2.2	-228.6	104.0	-34.5	-85.0	-4.5
	44	-27.7	11.7	3006	3356	-9.9	2.2	-232.4	103.0	-33.2	-82.2	-4.4
	55	-27.7	12.2	3450	3356	-9.9	2.2	-232.4	101.8	-32.0	-79.4	-4.3
	66	-28.8	12.2	3450	3420	-8.8	2.2	-228.6	100.6	-30.8	-76.6	-4.1
	77	-28.8	12.2	3450	3420	-8.8	2.2	-228.6	99.4	-29.6	-73.9	-4.0
	88	-29.9	12.2	3450	3420	-8.8	2.2	-228.6	98.2	-28.4	-71.2	-3.9
	99	-30.0	12.2	3450	3420	-8.8	2.2	-228.6	96.9	-27.2	-68.5	-3.8
	110	-30.0	12.2	3450	3420	-8.8	2.2	-228.6	95.7	-26.1	-65.9	-3.7
	121	-30.0	13.0	3450	3420	-8.8	2.2	-228.6	94.4	-24.9	-63.3	-3.6
	132	-30.0	13.0	4172	4433	-8.8	2.2	-228.6	92.2	-23.6	-60.4	-3.5
	143	-30.0	17.4	2296	2331	-10.0	2.2	-228.6	90.0	-22.7	-58.3	-3.4
	154	-33.6	22.2	3499	3333	-11.1	2.2	-228.6	88.1	-21.6	-55.8	-3.3
	165	-46.7	32.4	3444	3333	-11.1	2.2	-228.6	85.7	-20.6	-53.4	-3.2
	176	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	82.4	-19.4	-50.6	-3.1
	187	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	77.1	-17.5	-46.0	-2.9
	198	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	75.7	-16.7	-44.1	-2.8
	209	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	73.9	-15.8	-41.9	-2.7
	220	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	72.0	-14.9	-39.8	-2.6
	231	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	70.1	-14.1	-37.7	-2.5
	242	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	68.0	-13.3	-35.6	-2.4
	253	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	65.9	-12.5	-33.6	-2.3
	264	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	63.7	-11.7	-31.7	-2.2
	275	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	61.5	-10.9	-29.8	-2.1
	286	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	59.3	-10.0	-28.0	-2.0
	297	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	57.1	-9.2	-26.2	-1.9
	308	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	54.9	-8.4	-24.4	-1.8
	319	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	52.7	-7.6	-22.6	-1.7
	330	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	50.6	-6.8	-21.0	-1.6
	341	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	48.4	-6.0	-19.7	-1.5
	352	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	46.3	-5.4	-18.2	-1.4
	363	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	44.1	-4.8	-16.7	-1.3
	374	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	42.0	-4.4	-15.3	-1.2
	385	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	39.9	-4.0	-14.0	-1.1
	396	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	37.7	-3.6	-12.7	-1.0
	407	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	35.6	-3.3	-11.5	-0.9
	418	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	33.5	-3.0	-10.4	-0.8
	429	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	31.4	-2.8	-9.3	-0.7
	440	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	29.3	-2.6	-8.2	-0.6
	451	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	27.2	-2.4	-7.3	-0.5
	462	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	25.1	-2.2	-6.4	-0.4
	473	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	23.0	-2.0	-5.5	-0.3
	484	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	21.0	-1.8	-4.7	-0.2
	495	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	19.0	-1.6	-3.9	-0.1
	506	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	17.0	-1.4	-3.2	-0.0
	517	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	15.0	-1.2	-2.5	0.0
	528	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	13.0	-1.0	-1.8	0.0
	539	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	11.0	-0.8	-1.2	0.0
	550	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	9.0	-0.6	-0.7	0.0
	561	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	7.0	-0.4	-0.4	0.0
	572	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	5.0	-0.2	-0.2	0.0
	583	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	3.0	-0.1	-0.1	0.0
	594	-74.5	52.8	2237	5777	-12.2	2.2	-228.6	1.0	-0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 60		CONFIGURATION A								REFERENCE PRESSURE 23.0 PSF		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT 1000-FT-KIPS
MECH	666.50	-81.5	24.0	5461	3970	-14.9	6.1	-124.6	37.8	-.8	-2.7	-1.8
ROOF	692.80	-43.2	13.8	3280	2000	-13.2	6.9	-43.2	13.8	-.2	-.5	-.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 70

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-	10.0	2227	2951	-11.6	3.4	-26.1	13.0	-4.7	-9.9	-5.2
2	11.00	-	19.4	4084	5231	-10.9	3.4	-25.5	12.8	-4.5	-9.6	-5.5
3	30.00	-	12.6	2600	3089	-10.1	4.4	-25.1	12.8	-4.4	-9.1	-5.2
4	42.00	-	13.2	2666	3089	-9.6	4.4	-24.6	12.8	-4.3	-8.8	-5.1
5	54.00	-	14.8	3006	3356	-9.5	4.4	-24.4	12.8	-4.3	-8.8	-4.9
6	66.00	-	15.4	3450	3420	-8.4	4.4	-24.3	12.8	-4.2	-8.7	-4.8
7	78.00	-	15.8	3450	3420	-8.6	4.4	-24.3	12.8	-4.2	-8.7	-4.8
8	90.00	-	16.2	3450	3420	-8.8	4.4	-24.3	12.8	-4.2	-8.7	-4.8
9	102.00	-	16.6	3450	3420	-9.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
10	114.00	-	17.0	3450	3420	-9.2	4.4	-24.3	12.8	-4.2	-8.7	-4.8
11	126.00	-	17.4	3450	3420	-9.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
12	138.00	-	17.8	3450	3420	-9.8	4.4	-24.3	12.8	-4.2	-8.7	-4.8
13	150.00	-	18.2	3450	3420	-10.1	4.4	-24.3	12.8	-4.2	-8.7	-4.8
14	162.00	-	18.6	3450	3420	-10.4	4.4	-24.3	12.8	-4.2	-8.7	-4.8
15	174.00	-	19.0	3450	3420	-10.7	4.4	-24.3	12.8	-4.2	-8.7	-4.8
16	186.00	-	19.4	3450	3420	-11.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
17	200.00	-	19.8	3450	3420	-11.3	4.4	-24.3	12.8	-4.2	-8.7	-4.8
18	224.00	-	20.2	3450	3420	-11.6	4.4	-24.3	12.8	-4.2	-8.7	-4.8
19	234.00	-	20.6	3450	3420	-11.9	4.4	-24.3	12.8	-4.2	-8.7	-4.8
20	246.00	-	21.0	3450	3420	-12.2	4.4	-24.3	12.8	-4.2	-8.7	-4.8
21	258.00	-	21.4	3450	3420	-12.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
22	270.00	-	21.8	3450	3420	-12.8	4.4	-24.3	12.8	-4.2	-8.7	-4.8
23	282.00	-	22.2	3450	3420	-13.1	4.4	-24.3	12.8	-4.2	-8.7	-4.8
24	294.00	-	22.6	3450	3420	-13.4	4.4	-24.3	12.8	-4.2	-8.7	-4.8
25	306.00	-	23.0	3450	3420	-13.7	4.4	-24.3	12.8	-4.2	-8.7	-4.8
26	318.00	-	23.4	3450	3420	-14.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
27	330.00	-	23.8	3450	3420	-14.3	4.4	-24.3	12.8	-4.2	-8.7	-4.8
28	342.00	-	24.2	3450	3420	-14.6	4.4	-24.3	12.8	-4.2	-8.7	-4.8
29	354.00	-	24.6	3450	3420	-14.9	4.4	-24.3	12.8	-4.2	-8.7	-4.8
30	366.00	-	25.0	3450	3420	-15.2	4.4	-24.3	12.8	-4.2	-8.7	-4.8
31	378.00	-	25.4	3450	3420	-15.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
32	390.00	-	25.8	3450	3420	-15.8	4.4	-24.3	12.8	-4.2	-8.7	-4.8
33	402.00	-	26.2	3450	3420	-16.1	4.4	-24.3	12.8	-4.2	-8.7	-4.8
34	414.00	-	26.6	3450	3420	-16.4	4.4	-24.3	12.8	-4.2	-8.7	-4.8
35	426.00	-	27.0	3450	3420	-16.7	4.4	-24.3	12.8	-4.2	-8.7	-4.8
36	438.00	-	27.4	3450	3420	-17.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
37	450.00	-	27.8	3450	3420	-17.3	4.4	-24.3	12.8	-4.2	-8.7	-4.8
38	462.00	-	28.2	3450	3420	-17.6	4.4	-24.3	12.8	-4.2	-8.7	-4.8
39	474.00	-	28.6	3450	3420	-17.9	4.4	-24.3	12.8	-4.2	-8.7	-4.8
40	486.00	-	29.0	3450	3420	-18.2	4.4	-24.3	12.8	-4.2	-8.7	-4.8
41	498.00	-	29.4	3450	3420	-18.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
42	522.00	-	30.2	3450	3420	-19.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
43	534.00	-	31.0	3450	3420	-19.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
44	546.00	-	31.8	3450	3420	-20.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
45	558.00	-	32.6	3450	3420	-20.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
46	570.00	-	33.4	3450	3420	-21.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
47	582.00	-	34.2	3450	3420	-21.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
48	594.00	-	35.0	3450	3420	-22.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
49	606.00	-	35.8	3450	3420	-22.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
50	618.00	-	36.6	3450	3420	-23.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
51	630.00	-	37.4	3450	3420	-23.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8
52	644.00	-	38.2	3450	3420	-24.0	4.4	-24.3	12.8	-4.2	-8.7	-4.8
53	654.00	-	39.0	3450	3420	-24.5	4.4	-24.3	12.8	-4.2	-8.7	-4.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
WIND DIRECTION 70		CONFIGURATION A				U.S. STEEL GRANT STREET BUILDING				GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT	Z-MOMENT
										1000-FT-KIPS	1000-FT-KIPS	1000-FT-KIPS
MECH	666.50	-78.3	29.7	5461	3970	-14.3	7.5	-119.3	41.2	-.8	-2.6	-1.5
ROOF	692.80	-41.0	11.5	3280	2000	-12.5	5.7	-41.0	11.5	-.1	-.5	-.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 80

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-22.5	10.6	2227	2951	-10.1	3.6	-25.4	1411.0	-515.4	-968.5	-55.1
2	11.00	-32.3	20.3	4084	5231	-9.6	3.9	-25.4	1400.5	-500.0	-940.7	-53.3
3	22.00	-23.6	13.0	2600	3089	-9.1	4.2	-24.7	1380.0	-472.9	-891.9	-50.9
4	33.00	-23.3	13.0	2666	3089	-8.7	4.4	-24.5	1367.0	-456.4	-862.2	-49.4
5	44.00	-27.1	16.1	3006	3356	-9.0	4.8	-24.5	1353.4	-440.1	-833.3	-47.7
6	55.00	-29.3	16.1	3450	3420	-8.5	4.9	-24.4	1337.2	-423.9	-804.4	-46.6
7	66.00	-29.8	16.8	3450	3420	-8.6	4.9	-24.4	1320.5	-408.8	-775.5	-44.6
8	77.00	-30.2	17.1	3450	3420	-8.8	5.0	-23.3	1303.7	-392.2	-746.6	-43.3
9	88.00	-30.7	17.1	3450	3420	-8.9	5.0	-23.3	1286.7	-376.7	-717.7	-41.9
10	99.00	-31.2	17.3	3450	3420	-9.0	5.1	-22.2	1269.6	-361.4	-691.4	-40.0
11	110.00	-31.1	18.1	3450	3420	-9.2	5.3	-22.2	1252.3	-346.6	-664.4	-38.5
12	121.00	-40.7	33.3	4125	4125	-9.8	8.1	-22.2	1234.1	-331.3	-637.7	-36.8
13	132.00	-30.6	25.5	3300	3300	-10.3	7.7	-21.1	1200.8	-314.3	-600.6	-35.3
14	143.00	-38.1	33.0	3300	3300	-10.9	9.9	-21.1	1175.7	-302.4	-584.8	-33.3
15	154.00	-49.5	33.1	3440	3379	-11.1	9.9	-20.0	1144.4	-288.8	-555.9	-31.8
16	165.00	-49.9	39.9	3324	3394	-12.2	9.9	-20.0	1113.3	-274.4	-537.7	-30.3
17	176.00	-73.1	74.4	5578	5781	-12.5	12.2	-20.0	1074.1	-259.9	-500.0	-28.8
18	187.00	-30.4	20.0	2335	1668	-13.6	5.5	-19.9	999.8	-234.4	-455.5	-27.7
19	198.00	-39.1	25.1	2002	2002	-14.6	5.5	-19.2	978.8	-224.4	-437.7	-26.6
20	209.00	-41.8	25.5	2002	2002	-15.6	5.6	-18.8	953.8	-212.2	-414.4	-25.5
21	220.00	-44.4	25.5	2002	2002	-16.6	5.6	-18.4	928.6	-201.6	-399.9	-24.4
22	231.00	-44.4	25.5	2002	2002	-17.6	5.5	-17.9	903.4	-190.6	-377.7	-23.3
23	242.00	-50.1	24.4	2002	2002	-18.7	4.4	-17.4	878.4	-179.9	-355.5	-22.2
24	253.00	-54.4	24.4	2002	2002	-19.7	4.4	-16.9	853.3	-169.9	-333.3	-21.1
25	264.00	-54.4	24.4	2002	2002	-20.1	4.4	-16.6	828.2	-159.9	-311.1	-20.0
26	275.00	-54.4	24.4	2002	2002	-20.3	4.4	-16.6	804.4	-149.9	-288.8	-18.8
27	286.00	-55.5	23.3	2002	2002	-20.5	3.9	-15.9	780.0	-140.0	-266.6	-17.7
28	297.00	-55.5	23.3	2002	2002	-20.7	3.9	-14.8	756.6	-130.0	-244.4	-16.6
29	308.00	-55.5	23.3	2002	2002	-20.9	3.9	-14.4	732.2	-122.2	-222.2	-15.5
30	319.00	-56.6	23.3	2002	2002	-21.1	3.9	-13.7	709.9	-113.3	-200.0	-14.4
31	330.00	-56.6	23.3	2002	2002	-21.1	3.9	-13.3	686.3	-104.4	-177.7	-13.3
32	341.00	-55.5	22.4	2002	2002	-20.6	3.9	-12.5	662.7	-96.6	-155.5	-12.2
33	352.00	-55.5	22.4	2002	2002	-20.0	3.9	-12.0	638.2	-89.9	-133.3	-11.1
34	363.00	-54.4	22.4	2002	2002	-19.9	3.9	-11.4	614.7	-81.1	-111.1	-10.0
35	374.00	-54.4	22.4	2002	2002	-19.9	3.9	-11.0	590.6	-74.4	-88.8	-8.8
36	385.00	-51.1	22.7	2002	2002	-19.5	3.9	-10.4	566.1	-67.7	-66.6	-7.7
37	396.00	-50.6	22.8	2002	2002	-18.9	3.9	-9.9	542.0	-60.0	-44.4	-6.6
38	407.00	-50.6	22.8	2002	2002	-18.8	3.9	-9.9	517.9	-54.4	-22.2	-5.5
39	418.00	-50.0	22.8	2002	2002	-18.7	3.9	-8.8	493.8	-48.8	0.0	-4.4
40	429.00	-49.9	22.8	2002	2002	-18.7	3.9	-8.8	469.7	-43.3	0.0	-3.3
41	440.00	-49.9	22.9	2002	2002	-18.6	3.9	-7.7	445.6	-37.7	0.0	-2.2
42	451.00	-49.9	22.9	2002	2002	-18.6	3.9	-7.7	421.5	-32.2	0.0	-1.1
43	462.00	-49.9	22.8	2002	2002	-18.6	3.9	-6.6	397.4	-26.6	0.0	0.0
44	473.00	-49.9	22.8	2002	2002	-18.5	3.9	-6.6	373.3	-21.1	0.0	0.0
45	484.00	-49.9	22.8	2002	2002	-18.5	3.9	-6.6	349.2	-15.5	0.0	0.0
46	495.00	-49.9	22.8	2002	2002	-18.5	3.9	-6.6	325.1	-10.0	0.0	0.0
47	506.00	-49.9	22.8	2002	2002	-18.4	3.9	-6.6	301.0	-4.4	0.0	0.0
48	517.00	-49.9	22.7	2002	2002	-18.4	3.9	-6.6	276.9	0.0	0.0	0.0
49	528.00	-49.9	22.6	2192	2192	-17.2	3.9	-6.6	252.8	0.0	0.0	0.0
50	539.00	-49.9	22.6	2192	2192	-17.1	3.9	-6.6	228.7	0.0	0.0	0.0
51	550.00	-49.9	22.6	2503	2503	-17.1	3.9	-6.6	204.6	0.0	0.0	0.0
52	561.00	-49.9	18.8	1782	1782	-14.6	3.9	-6.6	180.5	0.0	0.0	0.0
53	572.00	-38.8	19.9	2019	2019	-14.4	3.9	-6.6	156.4	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 80		CONFIGURATION A				REFERENCE PRESSURE 23.0 PSF						
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-73.3	34.2	5461	3970	-13.4	8.6	-112.9	46.5	- .9	-2.5	-1.2
ROOF	692.80	-39.6	12.3	3280	2000	-12.1	6.2	-39.6	12.3	- .1	- .5	- .5

TABLE 7. SHEAR AND MOMENT DIAGRAMS  
WIND DIRECTION 90

MOMENT DIAGRAMS  
CONFIGURATION A

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0	-20.0	11.7	2227	2951	-0.0	4.0	-	14388	-5440	-884.6	-47.8
1	11	-21.7	21.7	4084	5231	-0.4	4.1	-	14266	-5224	-859.2	-46.4
1	30	-20.6	12.9	2600	3089	-0.4	4.2	-	14056	-4966	-814.4	-43.2
1	42	-20.1	13.2	2666	3089	-0.3	4.3	-	13922	-4799	-787.7	-42.4
1	55	-20.4	14.7	3006	3356	-0.4	4.4	-	13799	-4633	-760.9	-41.1
1	66	-20.2	15.3	3450	3420	-0.3	4.5	-	13664	-4466	-734.4	-40.6
1	77	-20.5	15.5	3450	3420	-0.3	4.6	-	13449	-4300	-708.1	-39.8
1	88	-20.2	15.5	3450	3420	-0.3	4.7	-	13333	-4134	-682.2	-39.2
1	99	-20.0	16.2	3450	3420	-0.2	4.8	-	13117	-3968	-656.6	-38.8
1	110	-20.0	16.2	3450	3420	-0.2	4.9	-	12901	-3802	-631.1	-38.6
1	122	-20.0	17.7	4172	4122	-0.0	5.0	-	12686	-3636	-606.6	-38.6
1	133	-20.0	18.0	2233	4122	-0.0	5.1	-	12470	-3470	-582.2	-38.6
1	144	-20.0	20.7	3499	4122	-0.0	5.2	-	12255	-3304	-557.7	-38.6
1	155	-20.0	20.7	3440	3377	-0.0	5.3	-	12039	-3138	-533.3	-38.6
1	166	-20.0	22.7	3499	3377	-0.0	5.4	-	11824	-2972	-508.8	-38.6
1	177	-20.0	22.7	4024	3377	-0.0	5.5	-	11608	-2806	-484.4	-38.6
1	188	-20.0	24.1	5837	3377	-0.0	5.6	-	11393	-2640	-460.0	-38.6
1	199	-20.0	24.1	1666	5781	-0.0	5.7	-	11177	-2474	-435.6	-38.6
1	210	-20.0	22.1	2233	1666	-0.0	5.8	-	10962	-2308	-411.2	-38.6
1	222	-20.0	22.1	2233	2233	-0.0	5.9	-	10746	-2142	-386.8	-38.6
1	233	-20.0	24.4	6688	2233	-0.0	6.0	-	10531	-1976	-362.4	-38.6
1	244	-20.0	24.4	6688	2233	-0.0	6.1	-	10315	-1810	-337.9	-38.6
1	255	-20.0	25.5	6688	2233	-0.0	6.2	-	10100	-1644	-313.5	-38.6
1	266	-20.0	25.5	6688	2233	-0.0	6.3	-	9884	-1478	-289.1	-38.6
1	277	-20.0	25.5	6688	2233	-0.0	6.4	-	9669	-1312	-264.7	-38.6
1	288	-20.0	25.5	6688	2233	-0.0	6.5	-	9453	-1146	-240.3	-38.6
1	299	-20.0	25.5	6688	2233	-0.0	6.6	-	9238	-980	-215.9	-38.6
1	310	-20.0	25.5	6688	2233	-0.0	6.7	-	9022	-814	-191.5	-38.6
1	322	-20.0	25.5	6688	2233	-0.0	6.8	-	8807	-648	-167.1	-38.6
1	333	-20.0	25.5	6688	2233	-0.0	6.9	-	8591	-482	-142.7	-38.6
1	344	-20.0	25.5	6688	2233	-0.0	7.0	-	8376	-316	-118.3	-38.6
1	355	-20.0	25.5	6688	2233	-0.0	7.1	-	8160	-150	-93.9	-38.6
1	366	-20.0	25.5	6688	2233	-0.0	7.2	-	7945	11.6	-69.5	-38.6
1	377	-20.0	25.5	6688	2233	-0.0	7.3	-	7729	88.0	-45.1	-38.6
1	388	-20.0	25.5	6688	2233	-0.0	7.4	-	7514	154.4	-20.7	-38.6
1	399	-20.0	25.5	6688	2233	-0.0	7.5	-	7298	220.8	3.7	-38.6
1	410	-20.0	25.5	6688	2233	-0.0	7.6	-	7083	287.2	29.3	-38.6
1	422	-20.0	25.5	6688	2233	-0.0	7.7	-	6867	353.6	54.9	-38.6
1	433	-20.0	25.5	6688	2233	-0.0	7.8	-	6652	420.0	80.5	-38.6
1	444	-20.0	25.5	6688	2233	-0.0	7.9	-	6436	486.4	106.1	-38.6
1	455	-20.0	25.5	6688	2233	-0.0	8.0	-	6221	552.8	131.7	-38.6
1	466	-20.0	25.5	6688	2233	-0.0	8.1	-	6005	619.2	157.3	-38.6
1	477	-20.0	25.5	6688	2233	-0.0	8.2	-	5790	685.6	182.9	-38.6
1	488	-20.0	25.5	6688	2233	-0.0	8.3	-	5574	752.0	208.5	-38.6
1	499	-20.0	25.5	6688	2233	-0.0	8.4	-	5359	818.4	234.1	-38.6
1	510	-20.0	25.5	6688	2233	-0.0	8.5	-	5143	884.8	259.7	-38.6
1	522	-20.0	25.5	6688	2233	-0.0	8.6	-	4928	951.2	285.3	-38.6
1	533	-20.0	25.5	6688	2233	-0.0	8.7	-	4712	1017.6	310.9	-38.6
1	544	-20.0	25.5	6688	2233	-0.0	8.8	-	4497	1084.0	336.5	-38.6
1	555	-20.0	25.5	6688	2233	-0.0	8.9	-	4281	1150.4	362.1	-38.6
1	566	-20.0	25.5	6688	2233	-0.0	9.0	-	4066	1216.8	387.7	-38.6
1	577	-20.0	25.5	6688	2233	-0.0	9.1	-	3850	1283.2	413.3	-38.6
1	588	-20.0	25.5	6688	2233	-0.0	9.2	-	3635	1349.6	438.9	-38.6
1	599	-20.0	25.5	6688	2233	-0.0	9.3	-	3419	1416.0	464.5	-38.6
1	610	-20.0	25.5	6688	2233	-0.0	9.4	-	3204	1482.4	490.1	-38.6
1	622	-20.0	25.5	6688	2233	-0.0	9.5	-	2988	1548.8	515.7	-38.6
1	633	-20.0	25.5	6688	2233	-0.0	9.6	-	2773	1615.2	541.3	-38.6
1	644	-20.0	25.5	6688	2233	-0.0	9.7	-	2557	1681.6	566.9	-38.6
1	655	-20.0	25.5	6688	2233	-0.0	9.8	-	2342	1748.0	592.5	-38.6
1	666	-20.0	25.5	6688	2233	-0.0	9.9	-	2126	1814.4	618.1	-38.6
1	677	-20.0	25.5	6688	2233	-0.0	10.0	-	1911	1880.8	643.7	-38.6
1	688	-20.0	25.5	6688	2233	-0.0	10.1	-	1695	1947.2	669.3	-38.6
1	699	-20.0	25.5	6688	2233	-0.0	10.2	-	1480	2013.6	694.9	-38.6
1	710	-20.0	25.5	6688	2233	-0.0	10.3	-	1264	2080.0	720.5	-38.6
1	722	-20.0	25.5	6688	2233	-0.0	10.4	-	1049	2146.4	746.1	-38.6
1	733	-20.0	25.5	6688	2233	-0.0	10.5	-	833	2212.8	771.7	-38.6
1	744	-20.0	25.5	6688	2233	-0.0	10.6	-	618	2279.2	797.3	-38.6
1	755	-20.0	25.5	6688	2233	-0.0	10.7	-	402	2345.6	822.9	-38.6
1	766	-20.0	25.5	6688	2233	-0.0	10.8	-	187	2412.0	848.5	-38.6
1	777	-20.0	25.5	6688	2233	-0.0	10.9	-	71	2478.4	874.1	-38.6
1	788	-20.0	25.5	6688	2233	-0.0	11.0	-	-44	2544.8	900.0	-38.6
1	799	-20.0	25.5	6688	2233	-0.0	11.1	-	-129	2611.2	925.6	-38.6
1	810	-20.0	25.5	6688	2233	-0.0	11.2	-	-214	2677.6	951.2	-38.6
1	822	-20.0	25.5	6688	2233	-0.0	11.3	-	-300	2744.0	976.8	-38.6
1	833	-20.0	25.5	6688	2233	-0.0	11.4	-	-385	2810.4	1002.4	-38.6
1	844	-20.0	25.5	6688	2233	-0.0	11.5	-	-470	2876.8	1028.0	-38.6
1	855	-20.0	25.5	6688	2233	-0.0	11.6	-	-556	2943.2	1053.6	-38.6
1	866	-20.0	25.5	6688	2233	-0.0	11.7	-	-641	3009.6	1079.2	-38.6
1	877	-20.0	25.5	6688	2233	-0.0	11.8	-	-727	3076.0	1104.8	-38.6
1	888	-20.0	25.5	6688	2233	-0.0	11.9	-	-812	3142.4	1130.4	-38.6
1	899	-20.0	25.5	6688	2233	-0.0	12.0	-	-898	3208.8	1156.0	-38.6
1	910	-20.0	25.5	6688	2233	-0.0	12.1	-	-983	3275.2	1181.6	-38.6
1	922	-20.0	25.5	6688	2233	-0.0	12.2	-	-1069	3341.6	1207.2	-38.6
1	933	-20.0	25.5	6688	2233	-0.0	12.3	-	-1154	3408.0	1232.8	-38.6
1	944	-20.0	25.5	6688	2233	-0.0	12.4	-	-1240	3474.4	1258.4	-38.6
1	955	-20.0	25.5	6688	2233	-0.0	12.5	-	-1325	3540.8	1284.0	-38.6
1	966	-20.0	25.5	6688	2233	-0.0	12.6	-	-1411	3607.2	1309.6	-38.6
1	977	-20.0	25.5	6688	2233	-0.0	12.7	-	-1496	3673.6	1335.2	-38.6
1	988	-20.0	25.5	6688	2233	-0.0	12.8	-	-1582	3740.0	1360.8	-38.6
1	999	-20.0	25.5	6688	2233	-0.0	12.9	-	-1667	3806.4	1386.4	-38.6
1	1010	-20.0	25.5	6688	2233	-0.0	13.0	-	-1753	3872.8	1412.0	-38.6
1	1022	-20.0	25.5	6688	2233	-0.0	13.1	-	-1838	3939.2	1437.6	-38.6
1	1033	-20.0	25.5	6688	2233	-0.0	13.2	-	-1924	4005.6	1463.2	-38.6
1	1044	-20.0	25.5	6688	2233	-0.0	13.3	-	-2009	4072.0	1488.8	-38.6
1	1055	-20.0	25.5	6688	2233	-0.0	13.4	-	-2095	4138.4	1514.4	-38.6
1	1066	-20.0	25.5	6688	2233	-0.0	13.5	-	-2180	4204.8	1540.0	-38.6
1	1077	-20.0	25.5	6688	2233	-0.0	13.6	-	-2266	4271.2	1565.6	-38.6
1	1088	-20.0	25.5	6688	2233	-0.0	13.7	-	-2351	4337.6	1591.2	-38.6
1	1099	-20.0	25.5	6688	2233	-0.0	13.8	-	-2437	4404.0	1616.8	-38.6
1	1110	-20.0	25.5	6688	2233	-0.0	13.9	-	-2522	4470.4	1642.4	-38.6
1	1122	-20.0	25.5	6688	2233	-0.0	14.0	-	-2608	4536.8	1668.0	-38.6
1	1133	-20.0	25.5	6688	2233	-0.0	14.1	-	-2693	4603.2	1693.6	-38.6
1	1144	-20.0	25.5	6688	2233	-0.0	14.2	-	-2779	4669.6	1719.2	-38.6
1	1155	-20.0	25.5	6688	2233	-0.0	14.3	-	-2864	4736.0	1744.8	-38.6
1	1166	-20.0										

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 90

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-59.7	42.7	5461	3970	-10.9	10.7	-92.6	59.3	-1.2	-2.0	-1.0
ROOF	692.80	-32.9	16.7	3280	2000	-10.0	8.3	-32.9	16.7	-.2	-.4	-.5



TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 100

CONFIGURATION A U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
53	6.44	1.1	12.7	222.7	295.1	-7.0	4.3	-1497.4	1507.1	-579.4	-530.5	-44.1
52	6.44	1.1	12.7	222.7	295.1	-7.0	4.3	-1481.1	1494.4	-562.9	-514.1	-42.6
51	6.44	1.1	12.7	222.7	295.1	-7.0	4.3	-1455.5	1471.1	-534.0	-485.5	-40.1
50	6.66	1.1	12.7	226.6	309.9	-6.8	4.4	-1424.4	1444.4	-516.4	-468.1	-38.6
49	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1404.4	1424.4	-499.9	-450.9	-38.0
48	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1388.8	1404.4	-481.7	-433.3	-37.5
47	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1373.2	1388.8	-464.6	-417.7	-37.0
46	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1357.6	1373.2	-447.7	-400.0	-36.5
45	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1342.0	1357.6	-430.9	-384.4	-36.0
44	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1326.4	1342.0	-414.4	-368.8	-35.5
43	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1310.8	1326.4	-398.8	-353.3	-35.0
42	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1295.2	1310.8	-383.3	-337.7	-34.5
41	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1279.6	1295.2	-367.7	-322.2	-34.0
40	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1264.0	1279.6	-352.2	-306.6	-33.5
39	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1248.4	1264.0	-336.6	-291.1	-33.0
38	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1232.8	1248.4	-321.1	-275.5	-32.5
37	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1217.2	1232.8	-305.5	-260.0	-32.0
36	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1201.6	1217.2	-290.0	-244.4	-31.5
35	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1186.0	1201.6	-274.4	-228.8	-31.0
34	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1170.4	1186.0	-258.8	-213.3	-30.5
33	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1154.8	1170.4	-243.3	-197.7	-30.0
32	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1139.2	1154.8	-227.7	-182.2	-29.5
31	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1123.6	1139.2	-212.2	-166.6	-29.0
30	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1108.0	1123.6	-196.6	-151.1	-28.5
29	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1092.4	1108.0	-181.1	-135.5	-28.0
28	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1076.8	1092.4	-165.5	-120.0	-27.5
27	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1061.2	1076.8	-150.0	-104.4	-27.0
26	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1045.6	1061.2	-134.4	-88.8	-26.5
25	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1030.0	1045.6	-118.8	-73.3	-26.0
24	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-1014.4	1030.0	-103.3	-57.7	-25.5
23	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-998.8	1014.4	-87.7	-42.2	-25.0
22	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-983.2	998.8	-72.2	-26.6	-24.5
21	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-967.6	983.2	-56.6	-11.1	-24.0
20	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-952.0	967.6	-41.1	4.4	-23.5
19	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-936.4	952.0	-25.5	19.9	-23.0
18	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-920.8	936.4	-10.0	35.3	-22.5
17	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-905.2	920.8	5.5	50.8	-22.0
16	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-889.6	905.2	20.0	66.2	-21.5
15	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-874.0	889.6	34.4	81.7	-21.0
14	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-858.4	874.0	48.8	97.1	-20.5
13	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-842.8	858.4	63.3	112.6	-20.0
12	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-827.2	842.8	77.7	128.0	-19.5
11	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-811.6	827.2	92.2	143.5	-19.0
10	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-796.0	811.6	106.6	159.0	-18.5
9	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-780.4	796.0	121.1	174.4	-18.0
8	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-764.8	780.4	135.5	189.9	-17.5
7	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-749.2	764.8	150.0	205.3	-17.0
6	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-733.6	749.2	164.4	220.8	-16.5
5	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-718.0	733.6	178.8	236.2	-16.0
4	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-702.4	718.0	193.3	251.7	-15.5
3	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-686.8	702.4	207.7	267.1	-15.0
2	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-671.2	686.8	222.2	282.6	-14.5
1	6.66	1.1	12.6	226.6	309.9	-6.8	4.4	-655.6	671.2	236.6	298.0	-14.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 100		CONFIGURATION A								REFERENCE PRESSURE 23.0 PSF		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-29.4	45.0	5461	3970	-5.4	11.3	-51.3	60.1	-1.2	-1.2	-1.5
ROOF	692.80	-21.9	15.2	3280	2000	-6.7	7.6	-21.9	15.2	-1.2	-1.3	-1.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 110

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-11.1	13.6	2227	2951	-11.1	13.6	-851.1	1571.6	-270.1	-43.0	
2	11.00	-21.1	23.5	4084	5231	-21.1	23.5	-840.0	1558.0	-260.8	-41.3	
3	30.50	-14.5	13.1	2600	3089	-14.5	13.1	-818.0	1521.4	-244.7	-38.3	
4	42.50	-15.4	12.7	2666	3088	-15.4	12.7	-804.1	1521.4	-234.9	-36.4	
5	54.50	-17.8	14.9	3006	3356	-17.8	14.9	-788.6	1508.8	-225.4	-34.6	
6	66.50	-24.0	16.5	3450	3420	-24.0	16.5	-770.9	1493.3	-216.0	-32.7	
7	78.50	-23.5	17.0	3450	3420	-23.5	17.0	-746.9	1477.7	-206.9	-31.0	
8	90.50	-23.5	17.5	3450	3420	-23.5	17.5	-723.4	1460.3	-198.8	-29.2	
9	102.50	-23.5	18.0	3450	3420	-23.5	18.0	-700.4	1442.2	-189.6	-27.4	
10	114.50	-22.1	18.4	3450	3420	-22.1	18.4	-677.9	1424.0	-181.3	-25.6	
11	126.50	-22.1	19.4	3450	3420	-22.1	19.4	-656.6	1406.6	-173.3	-23.7	
12	138.50	-22.6	31.0	4172	4122	-22.6	31.0	-634.4	1388.7	-165.5	-21.8	
13	152.50	-17.7	23.3	2960	2889	-17.7	23.3	-607.7	1355.6	-156.8	-18.4	
14	162.50	-19.9	28.0	3499	3341	-19.9	28.0	-589.9	1330.5	-143.3	-16.6	
15	174.50	-18.8	34.4	3440	3337	-18.8	34.4	-569.9	1305.9	-133.7	-14.8	
16	186.50	-19.9	34.3	4024	3394	-19.9	34.3	-551.1	1274.6	-123.2	-13.0	
17	200.80	-22.2	55.9	5837	5788	-22.2	55.9	-531.1	1242.2	-112.9	-11.2	
18	224.80	-22.2	17.5	2235	1666	-22.2	17.5	-503.3	1189.3	-117.0	-4.1	
19	234.80	-22.2	22.2	2682	2000	-22.2	22.2	-501.1	1166.6	-112.0	-4.1	
20	246.80	-22.2	44.4	6882	2000	-22.2	44.4	-497.7	1142.2	-106.0	-4.0	
21	258.80	-22.2	6.6	2682	2000	-22.2	6.6	-493.3	1120.0	-100.0	-4.0	
22	270.80	-22.2	7.7	2682	2000	-22.2	7.7	-488.8	1099.5	-94.1	-3.3	
23	282.80	-22.2	7.7	2682	2000	-22.2	7.7	-482.2	1077.7	-88.8	-3.3	
24	294.80	-22.2	7.7	2682	2000	-22.2	7.7	-475.5	1055.5	-83.3	-3.3	
25	306.80	-22.2	9.9	2682	2000	-22.2	9.9	-468.8	1033.3	-76.6	-3.3	
26	318.80	-22.2	11.1	2682	2000	-22.2	11.1	-462.2	1011.1	-71.1	-3.3	
27	330.80	-22.2	11.1	2682	2000	-22.2	11.1	-455.5	988.8	-65.5	-3.3	
28	342.80	-22.2	11.1	2682	2000	-22.2	11.1	-448.8	966.6	-60.0	-3.3	
29	354.80	-22.2	11.1	2682	2000	-22.2	11.1	-442.2	944.4	-54.4	-3.3	
30	366.80	-22.2	11.1	2682	2000	-22.2	11.1	-435.5	922.2	-48.8	-3.3	
31	378.80	-22.2	11.1	2682	2000	-22.2	11.1	-428.8	900.0	-43.3	-3.3	
32	390.80	-22.2	11.1	2682	2000	-22.2	11.1	-422.2	877.7	-37.7	-3.3	
33	402.80	-22.2	11.1	2682	2000	-22.2	11.1	-415.5	855.5	-32.2	-3.3	
34	414.80	-22.2	11.1	2682	2000	-22.2	11.1	-408.8	833.3	-26.6	-3.3	
35	426.80	-22.2	11.1	2682	2000	-22.2	11.1	-402.2	811.1	-21.1	-3.3	
36	438.80	-22.2	11.1	2682	2000	-22.2	11.1	-395.5	788.8	-15.5	-3.3	
37	450.80	-22.2	11.1	2682	2000	-22.2	11.1	-388.8	766.6	-10.0	-3.3	
38	462.80	-22.2	11.1	2682	2000	-22.2	11.1	-382.2	744.4	-4.4	-3.3	
39	474.80	-22.2	11.1	2682	2000	-22.2	11.1	-375.5	722.2	1.1	-3.3	
40	486.80	-22.2	11.1	2682	2000	-22.2	11.1	-368.8	700.0	5.5	-3.3	
41	498.80	-22.2	11.1	2682	2000	-22.2	11.1	-362.2	677.7	9.9	-3.3	
42	510.80	-22.2	11.1	2682	2000	-22.2	11.1	-355.5	655.5	14.4	-3.3	
43	522.80	-22.2	11.1	2682	2000	-22.2	11.1	-348.8	633.3	18.8	-3.3	
44	534.80	-22.2	11.1	2682	2000	-22.2	11.1	-342.2	611.1	23.3	-3.3	
45	546.80	-22.2	11.1	2682	2000	-22.2	11.1	-335.5	588.8	27.7	-3.3	
46	558.80	-22.2	11.1	2682	2000	-22.2	11.1	-328.8	566.6	32.2	-3.3	
47	570.80	-22.2	11.1	2682	2000	-22.2	11.1	-322.2	544.4	36.6	-3.3	
48	582.80	-22.2	11.1	2682	2000	-22.2	11.1	-315.5	522.2	41.1	-3.3	
49	594.80	-22.2	11.1	2682	2000	-22.2	11.1	-308.8	500.0	45.5	-3.3	
50	606.80	-22.2	11.1	2682	2000	-22.2	11.1	-302.2	477.7	50.0	-3.3	
51	618.80	-22.2	11.1	2682	2000	-22.2	11.1	-295.5	455.5	54.4	-3.3	
52	630.80	-22.2	11.1	2682	2000	-22.2	11.1	-288.8	433.3	58.8	-3.3	
53	642.80	-22.2	11.1	2682	2000	-22.2	11.1	-282.2	411.1	63.3	-3.3	

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 110		CONFIGURATION A				REFERENCE PRESSURE 23.0 PSF						
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-.5	45.2	5461	3970	-.1	11.4	-12.9	56.5	-1.0	-.5	-.2
ROOF	692.80	-12.4	11.3	3280	2000	-3.8	5.6	-12.4	11.3	-.1	-.1	-.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS  
WIND DIRECTION 120

MOMENT DIAGRAMS  
CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-7.7	13.8	2227	2951	-3.5	4.7	-214.3	1707.4	-11.1	-11.1	-43.4
2	11.00	-17.0	25.5	4084	5231	-4.4	5.5	-206.6	1693.3	-8.8	-8.8	-41.1
3	30.50	-12.7	15.6	2600	3089	-4.4	5.0	-189.6	1668.8	-5.0	-5.0	-38.8
4	42.50	-14.4	16.0	2666	3089	-4.4	5.0	-176.9	1652.2	-2.8	-2.8	-36.1
5	54.50	-15.0	19.0	3006	3356	-2.2	5.7	-162.4	1636.6	-1.7	-1.7	-34.0
6	66.50	-23.3	21.9	3450	3440	-1.6	6.4	-146.8	1617.7	0.0	0.0	-31.3
7	78.50	-22.2	22.9	3450	3440	-1.6	7.7	-123.3	1595.5	0.0	0.0	-29.6
8	90.50	-21.1	23.8	3450	3440	-1.1	9.9	-100.0	1572.2	0.0	0.0	-27.7
9	102.50	-21.1	24.8	3450	3440	-1.1	11.1	-78.8	1549.9	0.0	0.0	-25.5
10	114.50	-20.0	25.8	3450	3440	-0.9	13.3	-57.7	1524.4	0.0	0.0	-23.3
11	126.50	-19.0	27.1	3450	3440	-0.9	15.5	-37.4	1498.8	0.0	0.0	-21.1
12	138.50	-21.1	29.6	4172	4125	-1.4	17.7	-18.0	1471.1	0.0	0.0	-17.7
13	152.50	-13.3	29.6	2960	2899	-1.4	19.9	0.0	1431.1	0.0	0.0	-13.3
14	162.50	-13.3	33.3	3499	3441	-0.8	22.2	0.0	1402.2	0.0	0.0	-11.1
15	174.50	-11.1	33.3	3440	3377	-1.1	24.4	16.4	1367.7	0.0	0.0	-9.9
16	186.50	-11.1	41.1	4024	3394	-0.8	26.6	40.4	1332.2	0.0	0.0	-8.8
MECH 18	200.80	-11.1	62.3	5837	5788	0.0	28.8	49.9	1299.0	0.0	0.0	-7.7
18	224.80	0.0	16.4	2235	1666	0.0	9.9	56.1	1222.8	0.0	0.0	-6.6
19	234.80	0.0	21.3	2682	2000	0.0	10.6	56.6	1211.1	0.0	0.0	-5.5
20	246.80	0.0	23.3	2682	2000	0.0	11.6	49.9	1199.0	0.0	0.0	-4.4
21	258.80	0.0	25.0	2682	2000	0.0	12.5	42.1	1167.0	0.0	0.0	-3.3
22	270.80	0.0	27.7	2682	2000	0.0	13.5	33.3	1142.2	0.0	0.0	-2.2
23	282.80	0.0	28.9	2682	2000	0.0	14.4	25.0	1111.1	0.0	0.0	-1.1
24	294.80	1.1	30.0	2682	2000	0.0	15.4	15.5	1086.6	0.0	0.0	0.0
25	306.80	0.0	31.1	2682	2000	0.0	16.4	5.5	1055.5	0.0	0.0	0.0
26	318.80	0.0	32.2	2682	2000	0.0	17.7	16.1	1022.2	0.0	0.0	0.0
27	330.80	0.0	33.3	2682	2000	0.0	18.8	16.4	999.9	0.0	0.0	0.0
28	342.80	0.0	33.3	2682	2000	0.0	19.9	-10.7	959.9	0.0	0.0	0.0
29	354.80	0.0	33.3	2682	2000	0.0	21.1	-16.7	919.9	0.0	0.0	0.0
30	366.80	0.0	33.3	2682	2000	0.0	22.2	-19.7	879.9	0.0	0.0	0.0
31	378.80	0.0	33.3	2682	2000	0.0	23.3	-21.4	839.9	0.0	0.0	0.0
32	390.80	0.0	33.3	2682	2000	0.0	24.4	-21.1	799.9	0.0	0.0	0.0
33	402.80	0.0	33.3	2682	2000	0.0	25.5	-20.0	759.9	0.0	0.0	0.0
34	414.80	0.0	33.3	2682	2000	0.0	26.6	-18.8	719.9	0.0	0.0	0.0
35	426.80	0.0	33.3	2682	2000	0.0	27.7	-17.7	679.9	0.0	0.0	0.0
36	438.80	0.0	33.3	2682	2000	0.0	28.8	-16.6	639.9	0.0	0.0	0.0
37	450.80	0.0	33.3	2682	2000	0.0	29.9	-15.5	599.9	0.0	0.0	0.0
38	462.80	0.0	33.3	2682	2000	0.0	31.1	-14.4	559.9	0.0	0.0	0.0
39	474.80	0.0	33.3	2682	2000	0.0	32.2	-13.3	519.9	0.0	0.0	0.0
MECH 40	486.80	0.0	33.3	2682	2000	0.0	33.3	-12.2	479.9	0.0	0.0	0.0
42	522.80	0.0	33.3	2682	2000	0.0	33.3	-7.7	439.9	0.0	0.0	0.0
43	534.80	0.0	33.3	2682	2000	0.0	33.3	0.0	399.9	0.0	0.0	0.0
44	546.80	0.0	33.3	2682	2000	0.0	33.3	0.0	359.9	0.0	0.0	0.0
45	558.80	0.0	33.3	2682	2000	0.0	33.3	0.0	319.9	0.0	0.0	0.0
46	570.80	0.0	33.3	2682	2000	0.0	33.3	0.0	279.9	0.0	0.0	0.0
47	582.80	0.0	33.3	2682	2000	0.0	33.3	0.0	239.9	0.0	0.0	0.0
48	594.80	0.0	33.3	2682	2000	0.0	33.3	0.0	199.9	0.0	0.0	0.0
49	606.80	0.0	33.3	2682	2000	0.0	33.3	0.0	159.9	0.0	0.0	0.0
50	618.80	0.0	33.3	2682	2000	0.0	33.3	0.0	119.9	0.0	0.0	0.0
51	630.80	0.0	33.3	2682	2000	0.0	33.3	0.0	79.9	0.0	0.0	0.0
52	644.50	0.0	33.3	2682	2000	0.0	33.3	0.0	39.9	0.0	0.0	0.0
53	654.50	0.0	33.3	2682	2000	0.0	33.3	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND  
WIND DIRECTION 120

MOMENT DIAGRAMS :  
CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	13.4	44.3	5461	3970	2.5	11.2	12.5	55.4	-1.0	.1	.3
ROOF	692.80	-.9	11.1	3280	2000	-.3	5.5	-.9	11.1	-.1	-.0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : U.S. STEEL GRANT STREET BUILDING  
 WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 23.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	1.6	15.1	2227	2951	1.3	5.1	526.1	1581.9	-5.9	269.2	-2.5
2	11.00	1.1	20.7	4084	5231	1.1	1.1	526.7	1566.8	-5.9	263.4	-2.3
3	30.50	1.1	13.8	2600	3089	1.1	1.1	531.8	1540.8	-5.4	253.1	-2.1
4	42.50	1.1	15.7	2666	3006	1.1	1.1	537.7	1524.3	-5.4	246.6	-1.9
5	54.50	1.1	18.3	3450	3366	1.1	1.1	544.4	1508.8	-5.0	240.1	-1.7
6	66.50	1.1	19.9	3450	3420	1.1	1.1	551.1	1490.8	-4.7	233.6	-1.5
7	78.50	1.1	20.4	3450	3420	1.1	1.1	555.4	1470.8	-4.4	226.9	-1.4
8	90.50	1.1	20.6	3450	3420	1.1	1.1	557.8	1449.9	-4.3	220.0	-1.2
9	102.50	1.1	21.2	3450	3420	1.1	1.1	590.0	1429.9	-4.3	213.3	-1.1
10	114.50	1.1	21.7	3450	3420	1.1	1.1	601.1	1407.7	-4.2	205.9	-1.0
11	126.50	1.1	22.5	3450	3420	1.1	1.1	611.1	1386.6	-4.0	198.6	-0.9
12	138.50	1.1	24.4	4172	4125	1.1	1.1	621.1	1363.3	-3.8	191.2	-0.8
13	150.50	1.1	26.1	2960	2888	1.1	1.1	622.1	1328.8	-3.6	182.4	-0.7
14	162.50	1.1	27.7	3499	3440	1.1	1.1	632.2	1302.2	-3.5	176.1	-0.6
15	174.50	1.1	29.4	3440	3377	1.1	1.1	633.3	1277.1	-3.4	168.8	-0.5
16	186.50	1.1	31.1	4024	4010	1.1	1.1	637.7	1233.3	-3.3	160.9	-0.4
MECH 17	200.80	1.1	33.3	5833	5944	1.1	1.1	639.9	1202.2	-3.2	151.9	-0.3
18	224.80	1.1	35.5	5833	5944	1.1	1.1	644.4	1143.3	-3.1	136.5	-0.2
19	234.80	1.1	36.6	2268	2222	1.1	1.1	646.6	1124.4	-3.0	130.0	-0.2
20	246.80	1.1	36.6	2268	2222	1.1	1.1	646.6	1100.0	-2.9	122.7	-0.1
21	258.80	1.1	36.6	2268	2222	1.1	1.1	646.6	1088.8	-2.8	115.5	-0.1
22	270.80	1.1	36.6	2268	2222	1.1	1.1	646.6	1066.6	-2.7	108.3	-0.1
23	282.80	1.1	36.6	2268	2222	1.1	1.1	646.6	1033.3	-2.6	101.1	-0.1
24	294.80	1.1	36.6	2268	2222	1.1	1.1	646.6	1011.1	-2.5	94.4	-0.1
25	306.80	1.1	36.6	2268	2222	1.1	1.1	646.6	988.8	-2.4	88.8	-0.1
26	318.80	1.1	36.6	2268	2222	1.1	1.1	646.6	966.6	-2.3	82.2	-0.1
27	330.80	1.1	36.6	2268	2222	1.1	1.1	646.6	944.4	-2.2	76.7	-0.1
28	342.80	1.1	36.6	2268	2222	1.1	1.1	646.6	922.2	-2.1	70.7	-0.1
29	354.80	1.1	36.6	2268	2222	1.1	1.1	646.6	900.0	-2.0	65.4	-0.1
30	366.80	1.1	36.6	2268	2222	1.1	1.1	646.6	877.7	-1.9	60.0	-0.1
31	378.80	1.1	36.6	2268	2222	1.1	1.1	646.6	855.5	-1.8	55.5	-0.1
32	390.80	1.1	36.6	2268	2222	1.1	1.1	646.6	833.3	-1.7	51.1	-0.1
33	402.80	1.1	36.6	2268	2222	1.1	1.1	646.6	811.1	-1.6	46.7	-0.1
34	414.80	1.1	36.6	2268	2222	1.1	1.1	646.6	788.9	-1.5	42.3	-0.1
35	426.80	1.1	36.6	2268	2222	1.1	1.1	646.6	766.7	-1.4	37.9	-0.1
36	438.80	1.1	36.6	2268	2222	1.1	1.1	646.6	744.4	-1.3	33.5	-0.1
37	450.80	1.1	36.6	2268	2222	1.1	1.1	646.6	722.2	-1.2	29.1	-0.1
38	462.80	1.1	36.6	2268	2222	1.1	1.1	646.6	700.0	-1.1	24.7	-0.1
39	474.80	1.1	36.6	2268	2222	1.1	1.1	646.6	677.7	-1.0	20.3	-0.1
40	486.80	1.1	36.6	2268	2222	1.1	1.1	646.6	655.5	-0.9	15.9	-0.1
41	498.80	1.1	36.6	2268	2222	1.1	1.1	646.6	633.3	-0.8	11.5	-0.1
42	510.80	1.1	36.6	2268	2222	1.1	1.1	646.6	611.1	-0.7	7.1	-0.1
43	522.80	1.1	36.6	2268	2222	1.1	1.1	646.6	588.9	-0.6	2.7	-0.1
44	534.80	1.1	36.6	2268	2222	1.1	1.1	646.6	566.7	-0.5	1.1	-0.1
45	546.80	1.1	36.6	2268	2222	1.1	1.1	646.6	544.4	-0.4	0.0	-0.1
46	558.80	1.1	36.6	2268	2222	1.1	1.1	646.6	522.2	-0.3	0.0	-0.1
47	570.80	1.1	36.6	2268	2222	1.1	1.1	646.6	500.0	-0.2	0.0	-0.1
48	582.80	1.1	36.6	2268	2222	1.1	1.1	646.6	477.7	-0.1	0.0	-0.1
49	594.80	1.1	36.6	2268	2222	1.1	1.1	646.6	455.5	-0.1	0.0	-0.1
50	606.80	1.1	36.6	2268	2222	1.1	1.1	646.6	433.3	-0.1	0.0	-0.1
51	618.80	1.1	36.6	2268	2222	1.1	1.1	646.6	411.1	-0.1	0.0	-0.1
52	630.80	1.1	36.6	2268	2222	1.1	1.1	646.6	388.9	-0.1	0.0	-0.1
53	642.80	1.1	36.6	2268	2222	1.1	1.1	646.6	366.7	-0.1	0.0	-0.1
54	654.80	1.1	36.6	2268	2222	1.1	1.1	646.6	344.4	-0.1	0.0	-0.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 130

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	17.5	44.3	5461	3970	3.2	11.1	30.1	56.1	-1.0	.7	.5
ROOF	692.80	12.6	11.9	3280	2000	3.9	5.9	12.6	11.9	-.1	.2	.4



TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 140

U. S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	4.8	17.7	2227	2951	2.2	6.0	1344.9	1479.7	-544.0	573.3	-4.1
2	11.00	5.9	29.7	4084	5231	1.5	5.7	1344.4	1461.9	-524.0	553.8	-2.8
3	30.50	2.8	16.9	2600	3089	1.1	4.4	1333.8	1432.3	-496.4	533.2	-1.6
4	42.50	2.8	15.9	2666	3089	1.1	4.4	1335.7	1415.7	-479.3	516.7	0.7
5	54.50	1.9	17.5	3006	3356	1.1	4.4	1333.2	1400.0	-462.4	500.7	1.8
6	66.50	-1.1	19.3	3450	3420	1.1	4.4	1333.1	1382.5	-445.5	484.7	3.0
7	78.50	-1.6	19.3	3450	3420	1.1	4.4	1333.4	1363.5	-429.9	468.8	4.1
8	90.50	-1.3	20.0	3450	3420	1.1	4.4	1333.5	1343.8	-413.3	452.9	5.2
9	102.50	1.9	20.0	3450	3420	1.1	4.4	1333.6	1323.3	-397.7	437.0	6.4
10	114.50	2.1	21.1	3450	3420	1.1	4.4	1335.5	1302.6	-381.1	421.1	7.6
11	126.50	3.3	22.2	3450	3420	1.1	4.4	1333.3	1281.0	-365.5	405.2	8.8
12	138.50	3.3	23.3	4172	4125	1.0	4.4	1329.8	1258.8	-350.0	389.3	10.0
13	150.50	2.8	22.2	2960	2898	1.2	4.4	1322.2	1225.7	-333.3	373.4	11.2
14	162.50	1.1	23.3	4499	3417	1.0	4.4	1314.2	1200.8	-321.1	357.5	12.4
15	174.50	1.2	24.4	4440	3379	1.0	4.4	1310.1	1170.6	-306.6	341.6	13.6
16	186.50	1.9	25.5	4024	3940	1.1	4.4	1286.6	1140.3	-292.2	325.7	14.8
17	198.50	2.1	26.6	3337	5781	1.1	4.4	1286.6	1103.3	-276.6	309.8	16.0
18	210.50	2.3	27.7	3235	1668	1.0	4.4	1286.6	1046.6	-255.1	293.9	17.2
19	222.50	2.1	28.8	2682	2002	1.1	4.4	1286.6	1030.0	-244.0	278.0	18.4
20	234.50	3.3	29.9	2682	2002	1.1	4.4	1178.8	1008.8	-228.8	262.1	19.6
21	246.50	3.3	31.1	2682	2002	1.1	4.4	1146.6	986.6	-216.6	246.2	20.8
22	258.50	3.3	32.2	2682	2002	1.1	4.4	1113.3	963.3	-204.4	230.3	22.0
23	270.50	3.3	33.3	2682	2002	1.1	4.4	1078.8	939.9	-193.3	214.4	23.2
24	282.50	3.3	34.4	2682	2002	1.1	4.4	1041.1	914.4	-182.2	198.5	24.4
25	294.50	3.3	35.5	2682	2002	1.1	4.4	1003.3	888.8	-171.1	182.6	25.6
26	306.50	3.3	36.6	2682	2002	1.1	4.4	964.4	862.2	-160.0	166.7	26.8
27	318.50	3.3	37.7	2682	2002	1.1	4.4	926.6	836.6	-150.0	150.8	28.0
28	330.50	3.3	38.8	2682	2002	1.1	4.4	888.8	810.0	-140.0	134.9	29.2
29	342.50	3.3	39.9	2682	2002	1.1	4.4	851.1	784.4	-131.1	119.0	30.4
30	354.50	3.3	41.1	2682	2002	1.1	4.4	813.3	758.8	-122.2	103.1	31.6
31	366.50	3.3	42.2	2682	2002	1.1	4.4	775.5	733.3	-113.3	87.2	32.8
32	378.50	3.3	43.3	2682	2002	1.1	4.4	737.7	707.7	-104.4	71.3	34.0
33	390.50	3.3	44.4	2682	2002	1.1	4.4	700.0	678.8	-96.6	55.4	35.2
34	402.50	3.3	45.5	2682	2002	1.1	4.4	662.2	651.1	-88.8	39.5	36.4
35	414.50	3.3	46.6	2682	2002	1.1	4.4	624.4	624.4	-80.0	23.6	37.6
36	426.50	3.3	47.7	2682	2002	1.1	4.4	586.6	596.6	-73.3	7.7	38.8
37	438.50	3.3	48.8	2682	2002	1.1	4.4	548.8	567.7	-66.6	0.8	40.0
38	450.50	3.3	49.9	2682	2002	1.1	4.4	511.1	538.8	-60.0	0.8	41.2
39	462.50	3.3	51.1	2682	2002	1.1	4.4	473.3	510.0	-53.3	0.8	42.4
40	474.50	3.3	52.2	2682	2002	1.1	4.4	435.5	481.1	-46.6	0.8	43.6
41	486.50	3.3	53.3	2682	2002	1.1	4.4	397.7	452.2	-40.0	0.8	44.8
42	498.50	3.3	54.4	2682	2002	1.1	4.4	359.9	423.3	-33.3	0.8	46.0
43	510.50	3.3	55.5	2682	2002	1.1	4.4	322.2	394.4	-26.6	0.8	47.2
44	522.50	3.3	56.6	2682	2002	1.1	4.4	284.4	365.5	-20.0	0.8	48.4
45	534.50	3.3	57.7	2682	2002	1.1	4.4	246.6	336.6	-13.3	0.8	49.6
46	546.50	3.3	58.8	2682	2002	1.1	4.4	208.8	307.7	-6.6	0.8	50.8
47	558.50	3.3	59.9	2682	2002	1.1	4.4	171.1	278.8	0.0	0.8	52.0
48	570.50	3.3	61.1	2682	2002	1.1	4.4	133.3	250.0	0.0	0.8	53.2
49	582.50	3.3	62.2	2682	2002	1.1	4.4	95.5	221.1	0.0	0.8	54.4
50	594.50	3.3	63.3	2682	2002	1.1	4.4	57.7	192.2	0.0	0.8	55.6
51	606.50	3.3	64.4	2682	2002	1.1	4.4	20.0	163.3	0.0	0.8	56.8
52	618.50	3.3	65.5	2682	2002	1.1	4.4	0.0	134.4	0.0	0.8	58.0
53	630.50	3.3	66.6	2682	2002	1.1	4.4	0.0	105.5	0.0	0.8	59.2
54	642.50	3.3	67.7	2682	2002	1.1	4.4	0.0	76.6	0.0	0.8	60.4
55	654.50	3.3	68.8	2682	2002	1.1	4.4	0.0	47.7	0.0	0.8	61.6
56	666.50	3.3	69.9	2682	2002	1.1	4.4	0.0	18.8	0.0	0.8	62.8
57	678.50	3.3	71.1	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	64.0
58	690.50	3.3	72.2	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	65.2
59	702.50	3.3	73.3	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	66.4
60	714.50	3.3	74.4	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	67.6
61	726.50	3.3	75.5	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	68.8
62	738.50	3.3	76.6	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	70.0
63	750.50	3.3	77.7	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	71.2
64	762.50	3.3	78.8	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	72.4
65	774.50	3.3	79.9	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	73.6
66	786.50	3.3	81.1	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	74.8
67	798.50	3.3	82.2	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	76.0
68	810.50	3.3	83.3	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	77.2
69	822.50	3.3	84.4	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	78.4
70	834.50	3.3	85.5	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	79.6
71	846.50	3.3	86.6	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	80.8
72	858.50	3.3	87.7	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	82.0
73	870.50	3.3	88.8	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	83.2
74	882.50	3.3	89.9	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	84.4
75	894.50	3.3	91.1	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	85.6
76	906.50	3.3	92.2	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	86.8
77	918.50	3.3	93.3	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	88.0
78	930.50	3.3	94.4	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	89.2
79	942.50	3.3	95.5	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	90.4
80	954.50	3.3	96.6	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	91.6
81	966.50	3.3	97.7	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	92.8
82	978.50	3.3	98.8	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	94.0
83	990.50	3.3	99.9	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	95.2
84	1002.50	3.3	101.1	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	96.4
85	1014.50	3.3	102.2	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	97.6
86	1026.50	3.3	103.3	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	98.8
87	1038.50	3.3	104.4	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	100.0
88	1050.50	3.3	105.5	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	101.2
89	1062.50	3.3	106.6	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	102.4
90	1074.50	3.3	107.7	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	103.6
91	1086.50	3.3	108.8	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	104.8
92	1098.50	3.3	109.9	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	106.0
93	1110.50	3.3	111.1	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	107.2
94	1122.50	3.3	112.2	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	108.4
95	1134.50	3.3	113.3	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	109.6
96	1146.50	3.3	114.4	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	110.8
97	1158.50	3.3	115.5	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	112.0
98	1170.50	3.3	116.6	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	113.2
99	1182.50	3.3	117.7	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	114.4
100	1194.50	3.3	118.8	2682	2002	1.1	4.4	0.0	0.0	0.0	0.8	115.6
101	1206.50	3.3	119.9	2682	2002	1.1	4.4	0.				

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 140

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT 1000-FT-KIPS
MECH	666.50	49.9	38.2	5461	3970	9.1	9.6	72.8	52.4	-1.0	1.5	1.2
ROOF	692.80	22.9	14.2	3280	2000	7.0	7.1	22.9	14.2	-.2	.3	.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 150

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	10.8	11.3	2227	2951	4.8	3.8	2056.4	1438.6	-53.5	85.5	20.6
2	11.00	16.1	20.4	4084	5231	3.9	3.9	2045.6	1427.3	-52.0	83.3	20.9
3	30.50	9.1	12.0	2600	3089	4.0	4.0	2029.5	1406.9	-49.3	79.3	21.6
4	42.50	8.9	12.0	2666	3089	4.0	4.0	2020.3	1394.7	-47.6	76.8	22.1
5	54.50	8.2	14.5	3006	3356	2.2	4.6	2011.4	1382.2	-45.9	74.4	22.5
6	66.50	4.3	15.9	3450	3420	1.2	4.4	2003.2	1367.8	-44.2	72.0	23.0
7	78.50	6.1	16.2	3450	3420	1.1	4.4	1999.0	1351.9	-42.6	69.6	23.4
8	90.50	8.0	16.5	3450	3420	2.2	4.8	1992.8	1335.7	-41.0	67.2	23.8
9	102.50	9.9	16.9	3450	3420	2.3	4.9	1984.8	1319.2	-39.4	64.8	24.2
10	114.50	11.8	17.7	3450	3420	3.4	5.0	1974.9	1302.3	-37.7	62.5	24.6
11	126.50	13.6	17.7	3450	3420	4.0	5.2	1963.1	1285.1	-36.0	60.1	25.0
12	138.50	21.1	17.7	4172	4125	5.5	6.3	1949.5	1267.3	-34.3	57.8	25.4
13	152.50	17.9	17.7	3296	2898	6.6	6.9	1928.4	1241.4	-32.6	55.5	25.8
14	162.50	24.6	17.7	3499	3417	7.9	7.4	1910.5	1221.3	-30.9	53.2	26.2
15	174.50	26.5	17.7	3440	3379	8.7	7.7	1886.5	1196.6	-29.2	50.9	26.6
16	186.50	34.7	17.7	4024	3940	10.6	8.2	1866.0	1170.0	-27.5	48.6	27.0
MECH 17	200.80	52.4	17.7	5837	5781	13.9	9.9	1825.3	1138.8	-25.8	46.3	27.4
18	224.80	29.6	14.4	2235	1668	13.3	11.1	1772.9	1084.4	-24.1	44.0	27.8
19	234.80	38.1	14.4	2682	2002	14.2	12.2	1743.3	1064.6	-22.4	41.7	28.2
20	246.80	40.8	13.3	2682	2002	15.1	13.3	1705.5	1040.0	-20.7	39.4	28.6
21	258.80	43.6	13.3	2682	2002	16.0	14.4	1664.3	1014.4	-19.0	37.1	29.0
22	270.80	46.4	11.1	2682	2002	17.0	15.5	1620.7	988.8	-17.3	34.8	29.4
23	282.80	49.2	11.1	2682	2002	18.0	16.6	1574.3	961.1	-15.6	32.5	29.8
24	294.80	49.9	11.1	2682	2002	19.0	17.7	1525.2	933.3	-13.9	30.2	30.2
25	306.80	51.1	11.1	2682	2002	19.9	18.8	1473.3	904.4	-12.2	27.9	30.6
26	318.80	51.4	11.1	2682	2002	19.9	19.9	1421.1	875.5	-10.5	25.6	31.0
27	330.80	50.6	11.1	2682	2002	18.8	21.0	1369.9	846.6	-8.8	23.3	31.4
28	342.80	49.9	11.1	2682	2002	18.8	22.1	1319.1	817.7	-7.1	21.0	31.8
29	354.80	49.1	11.1	2682	2002	18.8	23.2	1269.2	787.8	-5.4	18.7	32.2
30	366.80	48.4	11.1	2682	2002	18.8	24.3	1220.1	757.9	-3.7	16.4	32.6
31	378.80	47.7	11.1	2682	2002	17.7	25.4	1171.8	727.0	-2.0	14.1	33.0
32	390.80	47.7	11.1	2682	2002	17.7	26.5	1124.0	697.1	-0.3	11.8	33.4
33	402.80	46.6	11.1	2682	2002	17.4	27.6	1076.9	667.2	1.4	9.5	33.8
34	414.80	46.0	11.1	2682	2002	17.4	28.7	1030.3	636.3	3.1	7.2	34.2
35	426.80	45.4	11.1	2682	2002	16.6	29.8	984.4	606.4	4.8	4.9	34.6
36	438.80	44.8	11.1	2682	2002	16.6	30.9	939.9	575.5	6.5	2.6	35.0
37	450.80	44.1	11.1	2682	2002	16.6	32.0	894.4	544.4	8.2	0.3	35.4
38	462.80	43.5	11.1	2682	2002	16.6	33.1	850.0	513.3	9.9	-2.0	35.8
39	474.80	42.8	11.1	2682	2002	16.6	34.2	806.6	482.2	11.6	-4.7	36.2
40	486.80	42.4	11.1	2682	2002	15.5	35.3	763.3	451.1	13.3	-7.4	36.6
MECH 41	498.80	83.1	11.1	5364	4004	15.5	36.4	721.1	420.0	15.0	-10.1	37.0
42	510.80	40.8	11.1	2682	2002	15.5	37.5	678.8	388.9	16.7	-12.8	37.4
43	522.80	40.0	11.1	2682	2002	15.5	38.6	638.3	358.0	18.4	-15.5	37.8
44	534.80	40.0	11.1	2682	2002	15.5	39.7	597.7	327.1	20.1	-18.2	38.2
45	546.80	40.0	11.1	2682	2002	15.5	40.8	556.6	296.2	21.8	-20.9	38.6
46	558.80	41.0	11.1	2682	2002	14.4	41.9	515.7	266.6	23.5	-23.6	39.0
47	570.80	41.0	11.1	2682	2002	14.4	43.0	474.8	237.7	25.2	-26.3	39.4
48	582.80	41.0	11.1	2682	2002	14.4	44.1	433.9	207.8	26.9	-29.0	39.8
49	594.80	41.0	11.1	2682	2002	14.4	45.2	392.0	179.9	28.6	-31.7	40.2
50	606.80	41.0	11.1	2682	2002	14.4	46.3	351.1	150.0	30.3	-34.4	40.6
51	618.80	40.7	11.1	2682	2192	14.4	47.4	310.0	124.4	32.0	-37.1	41.0
52	630.80	47.8	11.1	2291	2503	14.4	48.5	270.0	101.1	33.7	-39.8	41.4
53	644.50	53.9	11.1	3349	1782	10.9	49.6	222.2	76.4	35.4	-42.5	41.8
54	654.50	52.3	18.6	2699	2019	19.4	50.7	168.4	58.4	37.1	-45.2	42.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 150

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT	Z-MOMENT
										1000-FT-KIPS		
MECH	666.50	80.6	30.3	5461	3970	14.8	7.6	116.1	39.9	-.8	2.4	1.8
ROOF	692.80	35.5	9.6	3280	2000	10.8	4.8	35.5	9.6	-.1	.4	.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 160

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	13.8	5.9	222.7	235.1	6.2	2.0	248.7	119.1	-473.7	1010.9	44.5
2	11.00	21.6	10.5	408.4	352.3	5.3	2.0	247.3	118.6	-460.6	983.6	44.4
3	39.00	13.0	6.3	266.0	338.9	6.3	2.0	245.2	117.5	-437.6	935.6	43.3
4	42.00	13.4	6.5	266.6	338.9	5.0	2.1	243.9	116.9	-423.6	906.2	43.6
5	54.00	14.4	7.1	300.6	355.6	4.8	2.2	242.5	116.2	-409.6	877.0	43.2
6	66.00	12.4	8.0	345.0	342.0	3.6	2.3	241.1	115.5	-395.7	848.0	42.7
7	78.00	15.0	8.1	345.0	342.0	4.3	2.4	239.9	114.7	-381.8	819.9	42.1
8	90.00	17.5	8.3	345.0	342.0	5.1	2.4	238.4	113.9	-368.8	790.4	41.1
9	102.00	20.1	8.5	345.0	342.0	5.8	2.4	236.6	113.1	-354.5	761.1	40.0
10	114.00	22.7	8.6	345.0	342.0	6.6	2.5	234.6	112.2	-341.1	733.3	38.8
11	126.00	25.1	9.0	345.0	342.0	7.3	2.6	232.3	111.4	-327.5	705.5	37.6
12	138.00	27.7	14.5	417.2	412.5	8.4	2.7	229.8	110.5	-314.2	677.7	36.0
13	152.00	33.3	12.0	296.0	289.8	9.6	2.4	226.6	109.0	-298.9	646.6	33.3
14	162.00	33.3	17.7	344.9	341.7	9.6	4.4	223.3	107.7	-288.8	623.3	31.9
15	174.00	33.3	19.6	344.9	341.7	11.1	5.5	219.8	106.0	-275.2	596.9	29.4
16	186.00	33.3	26.3	402.2	344.0	12.8	6.8	215.5	104.0	-262.6	570.7	26.1
17	200.00	33.3	42.2	583.7	579.9	13.7	7.7	210.6	101.4	-247.9	544.0	22.2
18	224.00	33.3	17.0	166.8	166.8	16.2	10.0	202.7	97.2	-224.4	490.0	16.6
19	234.00	44.4	21.2	226.8	226.8	16.5	10.6	199.0	95.5	-214.4	470.0	15.9
20	246.00	45.3	22.2	226.8	226.8	16.9	11.1	194.4	93.3	-203.3	446.6	14.4
21	258.00	46.6	22.9	226.8	226.8	17.2	11.4	190.1	91.1	-192.2	423.3	13.3
22	270.00	47.2	23.3	226.8	226.8	17.6	11.8	185.5	88.8	-181.1	401.1	12.2
23	282.00	44.4	24.4	226.8	226.8	17.9	12.1	180.7	86.5	-170.0	379.9	11.1
24	294.00	44.9	25.3	226.8	226.8	18.3	12.5	175.9	84.0	-160.4	357.7	9.9
25	306.00	44.9	25.4	226.8	226.8	18.6	12.9	171.0	81.5	-150.5	337.7	8.8
26	318.00	45.0	25.5	226.8	226.8	18.8	13.2	166.1	79.0	-140.5	316.6	7.7
27	330.00	44.1	26.0	226.8	226.8	19.1	13.6	161.0	76.4	-131.1	297.7	6.6
28	342.00	43.3	26.4	226.8	226.8	19.4	13.9	155.9	73.8	-122.2	278.8	5.5
29	354.00	42.8	26.7	226.8	226.8	19.7	14.3	150.7	71.2	-113.3	259.9	4.4
30	366.00	43.3	27.0	226.8	226.8	20.0	14.6	145.4	68.8	-105.4	242.2	3.3
31	378.00	43.3	27.1	226.8	226.8	20.1	15.0	140.0	65.9	-97.4	224.4	2.2
32	390.00	43.3	27.7	226.8	226.8	20.0	15.3	134.7	63.1	-89.4	208.8	1.1
33	402.00	43.3	27.7	226.8	226.8	19.9	15.5	129.3	60.4	-82.2	192.2	0.6
34	414.00	43.3	26.9	226.8	226.8	19.8	15.7	124.0	57.7	-75.5	177.4	0.4
35	426.00	43.3	26.6	226.8	226.8	19.7	15.9	118.7	55.0	-68.3	162.2	0.3
36	438.00	43.3	26.6	226.8	226.8	19.6	16.1	113.3	52.3	-61.1	148.9	0.2
37	450.00	43.3	26.6	226.8	226.8	19.5	16.3	108.0	49.6	-55.8	135.5	0.1
38	462.00	43.3	27.7	226.8	226.8	19.5	16.5	102.9	47.0	-50.0	122.2	0.0
39	474.00	43.3	27.7	226.8	226.8	19.4	16.6	97.7	44.3	-44.4	110.0	0.0
40	486.00	43.3	27.7	226.8	226.8	19.4	16.6	92.5	41.5	-39.9	99.9	0.0
41	498.00	43.3	27.7	226.8	226.8	19.3	16.6	87.3	38.8	-34.4	88.8	0.0
42	510.00	43.3	27.7	226.8	226.8	19.2	16.6	82.1	36.0	-29.9	77.7	0.0
43	522.00	43.3	27.7	226.8	226.8	19.2	16.6	76.9	33.2	-25.9	66.6	0.0
44	534.00	43.3	27.7	226.8	226.8	19.1	16.6	71.7	30.4	-22.2	55.5	0.0
45	546.00	43.3	27.7	226.8	226.8	19.1	16.6	66.5	27.7	-18.5	44.4	0.0
46	558.00	43.3	27.7	226.8	226.8	19.0	16.6	61.3	25.0	-15.4	33.3	0.0
47	570.00	43.3	27.7	226.8	226.8	18.9	16.6	56.1	22.3	-12.5	22.2	0.0
48	582.00	43.3	27.7	226.8	226.8	18.9	16.6	50.9	19.6	-10.0	11.1	0.0
49	594.00	43.3	27.7	226.8	226.8	18.8	16.6	45.7	17.0	-7.8	0.0	0.0
50	606.00	43.3	27.7	226.8	226.8	18.8	16.6	40.5	14.4	-5.5	0.0	0.0
51	618.00	43.3	27.7	226.8	226.8	18.7	16.6	35.3	11.9	-3.3	0.0	0.0
52	630.00	43.3	27.7	226.8	226.8	18.7	16.6	30.1	9.6	-1.9	0.0	0.0
53	644.00	43.3	27.7	226.8	226.8	18.6	16.6	24.9	7.1	-1.3	0.0	0.0
54	654.00	43.3	27.7	226.8	226.8	18.6	16.6	19.7	5.4	-1.3	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		U.S. STEEL GRANT STREET BUILDING						GUST FACTOR 1.32				
WIND DIRECTION 160		CONFIGURATION A						REFERENCE PRESSURE 23.0 PSF				
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	90.5	26.6	5461	3970	16.6	6.7	130.5	36.5	-.7	2.7	1.8
ROOF	692.80	40.0	9.9	3280	2000	12.2	4.9	40.0	9.9	-.1	.5	.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS  
WIND DIRECTION 170

CONFIGURATION A U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	17.2	1.7	222.7	295.1	7.7	1.2	2518.1	809.7	-3360.1	985.7	5.7
2	11.00	26.5	1.3	408.4	523.1	6.5	1.1	2500.9	810.4	-3351.1	958.1	5.9
3	22.00	33.5	1.1	526.6	689.9	5.5	1.0	2474.3	810.7	-3335.4	909.6	5.5
4	33.00	42.2	1.0	666.6	889.9	4.6	0.9	2458.6	810.2	-3322.5	850.0	4.4
5	44.00	54.4	0.9	806.6	1111.1	3.9	0.8	2442.5	809.9	-3311.1	785.5	3.3
6	55.00	66.6	0.8	946.6	1333.3	3.3	0.7	2423.4	809.5	-3300.0	720.0	2.2
7	66.00	77.7	0.7	1086.6	1555.5	2.7	0.6	2401.0	809.8	-3286.6	666.6	1.1
8	77.00	88.8	0.6	1226.6	1777.7	2.2	0.5	2376.2	809.6	-3277.7	611.1	0.0
9	88.00	99.9	0.5	1366.6	2000.0	1.7	0.4	2348.9	809.3	-3266.6	555.5	-1.1
10	99.00	111.1	0.4	1506.6	2222.2	1.2	0.3	2319.1	808.6	-3257.7	500.0	-2.2
11	110.00	122.2	0.3	1646.6	2444.4	0.9	0.2	2286.8	808.1	-3244.4	444.4	-3.3
12	121.00	133.3	0.2	1786.6	2666.6	0.7	0.1	2252.2	807.7	-3233.3	388.9	-4.4
13	132.00	144.4	0.1	1926.6	2888.8	0.5	0.0	2220.3	807.0	-3222.2	333.3	-5.5
14	143.00	155.5	0.0	2066.6	3111.1	0.4	0.0	2191.1	806.6	-3211.1	277.7	-6.6
15	154.00	166.6	0.0	2206.6	3333.3	0.3	0.0	2166.6	806.1	-3200.0	222.2	-7.7
16	165.00	177.7	0.0	2346.6	3555.5	0.2	0.0	2144.4	805.5	-3188.9	166.6	-8.8
17	176.00	188.8	0.0	2486.6	3777.7	0.1	0.0	2122.2	804.9	-3177.7	111.1	-9.9
18	187.00	199.9	0.0	2626.6	4000.0	0.0	0.0	2100.0	804.4	-3166.6	55.5	-11.1
19	198.00	211.1	0.0	2766.6	4222.2	0.0	0.0	2077.7	803.9	-3155.5	0.0	-12.2
20	209.00	222.2	0.0	2906.6	4444.4	0.0	0.0	2055.5	803.4	-3144.4	-44.4	-13.3
21	220.00	233.3	0.0	3046.6	4666.6	0.0	0.0	2033.3	802.9	-3133.3	-88.9	-14.4
22	231.00	244.4	0.0	3186.6	4888.8	0.0	0.0	2011.1	802.4	-3122.2	-133.3	-15.5
23	242.00	255.5	0.0	3326.6	5111.1	0.0	0.0	1988.9	801.9	-3111.1	-177.7	-16.6
24	253.00	266.6	0.0	3466.6	5333.3	0.0	0.0	1966.6	801.4	-3100.0	-222.2	-17.7
25	264.00	277.7	0.0	3606.6	5555.5	0.0	0.0	1944.4	800.9	-3088.9	-266.6	-18.8
26	275.00	288.8	0.0	3746.6	5777.7	0.0	0.0	1922.2	800.4	-3077.7	-311.1	-19.9
27	286.00	299.9	0.0	3886.6	6000.0	0.0	0.0	1900.0	800.0	-3066.6	-355.5	-21.1
28	297.00	311.1	0.0	4026.6	6222.2	0.0	0.0	1877.7	799.5	-3055.5	-400.0	-22.2
29	308.00	322.2	0.0	4166.6	6444.4	0.0	0.0	1855.5	799.0	-3044.4	-444.4	-23.3
30	319.00	333.3	0.0	4306.6	6666.6	0.0	0.0	1833.3	798.5	-3033.3	-488.9	-24.4
31	330.00	344.4	0.0	4446.6	6888.8	0.0	0.0	1811.1	798.0	-3022.2	-533.3	-25.5
32	341.00	355.5	0.0	4586.6	7111.1	0.0	0.0	1788.9	797.5	-3011.1	-577.7	-26.6
33	352.00	366.6	0.0	4726.6	7333.3	0.0	0.0	1766.6	797.0	-3000.0	-622.2	-27.7
34	363.00	377.7	0.0	4866.6	7555.5	0.0	0.0	1744.4	796.5	-2988.9	-666.6	-28.8
35	374.00	388.8	0.0	5006.6	7777.7	0.0	0.0	1722.2	796.0	-2977.7	-711.1	-29.9
36	385.00	399.9	0.0	5146.6	8000.0	0.0	0.0	1700.0	795.5	-2966.6	-755.5	-31.1
37	396.00	411.1	0.0	5286.6	8222.2	0.0	0.0	1677.7	795.0	-2955.5	-800.0	-32.2
38	407.00	422.2	0.0	5426.6	8444.4	0.0	0.0	1655.5	794.5	-2944.4	-844.4	-33.3
39	418.00	433.3	0.0	5566.6	8666.6	0.0	0.0	1633.3	794.0	-2933.3	-888.9	-34.4
40	429.00	444.4	0.0	5706.6	8888.8	0.0	0.0	1611.1	793.5	-2922.2	-933.3	-35.5
41	440.00	455.5	0.0	5846.6	9111.1	0.0	0.0	1588.9	793.0	-2911.1	-977.7	-36.6
42	451.00	466.6	0.0	5986.6	9333.3	0.0	0.0	1566.6	792.5	-2900.0	-1022.2	-37.7
43	462.00	477.7	0.0	6126.6	9555.5	0.0	0.0	1544.4	792.0	-2888.9	-1066.6	-38.8
44	473.00	488.8	0.0	6266.6	9777.7	0.0	0.0	1522.2	791.5	-2877.7	-1111.1	-39.9
45	484.00	499.9	0.0	6406.6	10000.0	0.0	0.0	1500.0	791.0	-2866.6	-1155.5	-41.1
46	495.00	511.1	0.0	6546.6	10222.2	0.0	0.0	1477.7	790.5	-2855.5	-1200.0	-42.2
47	506.00	522.2	0.0	6686.6	10444.4	0.0	0.0	1455.5	790.0	-2844.4	-1244.4	-43.3
48	517.00	533.3	0.0	6826.6	10666.6	0.0	0.0	1433.3	789.5	-2833.3	-1288.9	-44.4
49	528.00	544.4	0.0	6966.6	10888.8	0.0	0.0	1411.1	789.0	-2822.2	-1333.3	-45.5
50	539.00	555.5	0.0	7106.6	11111.1	0.0	0.0	1388.9	788.5	-2811.1	-1377.7	-46.6
51	550.00	566.6	0.0	7246.6	11333.3	0.0	0.0	1366.6	788.0	-2800.0	-1422.2	-47.7
52	561.00	577.7	0.0	7386.6	11555.5	0.0	0.0	1344.4	787.5	-2788.9	-1466.6	-48.8
53	572.00	588.8	0.0	7526.6	11777.7	0.0	0.0	1322.2	787.0	-2777.7	-1511.1	-49.9
54	583.00	599.9	0.0	7666.6	12000.0	0.0	0.0	1300.0	786.5	-2766.6	-1555.5	-51.1
55	594.00	611.1	0.0	7806.6	12222.2	0.0	0.0	1277.7	786.0	-2755.5	-1600.0	-52.2
56	605.00	622.2	0.0	7946.6	12444.4	0.0	0.0	1255.5	785.5	-2744.4	-1644.4	-53.3
57	616.00	633.3	0.0	8086.6	12666.6	0.0	0.0	1233.3	785.0	-2733.3	-1688.9	-54.4
58	627.00	644.4	0.0	8226.6	12888.8	0.0	0.0	1211.1	784.5	-2722.2	-1733.3	-55.5
59	638.00	655.5	0.0	8366.6	13111.1	0.0	0.0	1188.9	784.0	-2711.1	-1777.7	-56.6
60	649.00	666.6	0.0	8506.6	13333.3	0.0	0.0	1166.6	783.5	-2700.0	-1822.2	-57.7
61	660.00	677.7	0.0	8646.6	13555.5	0.0	0.0	1144.4	783.0	-2688.9	-1866.6	-58.8
62	671.00	688.8	0.0	8786.6	13777.7	0.0	0.0	1122.2	782.5	-2677.7	-1911.1	-59.9
63	682.00	699.9	0.0	8926.6	14000.0	0.0	0.0	1100.0	782.0	-2666.6	-1955.5	-61.1
64	693.00	711.1	0.0	9066.6	14222.2	0.0	0.0	1077.7	781.5	-2655.5	-2000.0	-62.2
65	704.00	722.2	0.0	9206.6	14444.4	0.0	0.0	1055.5	781.0	-2644.4	-2044.4	-63.3
66	715.00	733.3	0.0	9346.6	14666.6	0.0	0.0	1033.3	780.5	-2633.3	-2088.9	-64.4
67	726.00	744.4	0.0	9486.6	14888.8	0.0	0.0	1011.1	780.0	-2622.2	-2133.3	-65.5
68	737.00	755.5	0.0	9626.6	15111.1	0.0	0.0	988.9	779.5	-2611.1	-2177.7	-66.6
69	748.00	766.6	0.0	9766.6	15333.3	0.0	0.0	966.6	779.0	-2600.0	-2222.2	-67.7
70	759.00	777.7	0.0	9906.6	15555.5	0.0	0.0	944.4	778.5	-2588.9	-2266.6	-68.8
71	770.00	788.8	0.0	10046.6	15777.7	0.0	0.0	922.2	778.0	-2577.7	-2311.1	-69.9
72	781.00	799.9	0.0	10186.6	16000.0	0.0	0.0	900.0	777.5	-2566.6	-2355.5	-71.1
73	792.00	811.1	0.0	10326.6	16222.2	0.0	0.0	877.7	777.0	-2555.5	-2400.0	-72.2
74	803.00	822.2	0.0	10466.6	16444.4	0.0	0.0	855.5	776.5	-2544.4	-2444.4	-73.3
75	814.00	833.3	0.0	10606.6	16666.6	0.0	0.0	833.3	776.0	-2533.3	-2488.9	-74.4
76	825.00	844.4	0.0	10746.6	16888.8	0.0	0.0	811.1	775.5	-2522.2	-2533.3	-75.5
77	836.00	855.5	0.0	10886.6	17111.1	0.0	0.0	788.9	775.0	-2511.1	-2577.7	-76.6
78	847.00	866.6	0.0	11026.6	17333.3	0.0	0.0	766.6	774.5	-2500.0	-2622.2	-77.7
79	858.00	877.7	0.0	11166.6	17555.5	0.0	0.0	744.4	774.0	-2488.9	-2666.6	-78.8
80	869.00	888.8	0.0	11306.6	17777.7	0.0	0.0	722.2	773.5	-2477.7	-2711.1	-79.9
81	880.00	899.9	0.0	11446.6	18000.0	0.0	0.0	700.0	773.0	-2466.6	-2755.5	-81.1
82	891.00	911.1	0.0	11586.6	18222.2	0.0	0.0	677.7	772.5	-2455.5	-2800.0	-82.2
83	902.00	922.2	0.0	11726.6	18444.4	0.0	0.0	655.5	772.0	-2444.4	-2844.4	-83.3
84	913.00	933.3	0.0	11866.6	18666.6	0.0	0.0	633.3	771.5	-2433.3	-2888.9	-84.4
85	924.00	944.4	0.0	12006.6	18888.8	0.0	0.0	611.1	771.0	-2422.2	-2933.3	-85.5
86	935.00	955.5	0.0	12146.6	19111.1	0.0	0.0	588.9	770.5	-2411.1	-2977.7	-86.6
87	946.00	966.6	0.0	12286.6	19333.3	0.0	0.0	566.6	770.0	-2400.0	-3022.2	-87.7
88	957.00	977.7	0.0	12426.6	19555.5	0.0	0.0	544.4	769.5	-2388.9	-3066.6	-88.8
89	968.00	988.8	0.0	12566.6	19777.7	0.0	0.0	522.2	769.0	-2377.7	-3111.1	-89.9
90	979.00	999.9	0.0	12706.6	20000.0	0.0	0.0	500.0	768.5	-2366.6	-3155.5	-91.1
91	990.00	1011.1	0.0	12846.6	20222.2	0.0	0.0	477.7	768.0	-2355.5	-3200.0	-92.2
92	1001.00	1022.2	0.0	12986.6	20444.4	0.0	0.0	455.5	767.5	-2344.4	-3244.4	-93.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 170

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	83.2	23.0	5461	3970	15.2	5.8	125.3	33.6	-.7	2.7	2.4
ROOF	692.80	42.2	10.5	3280	2000	12.9	5.3	42.2	10.5	-.1	.5	.7



TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 180

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	19.0	-5.2	2227	2951	8.5	-1.8	2486.2	418.7	-222.1	937.7	67.6
2	11.00	28.0	-7.9	4084	5231	7.0	-1.5	2467.2	423.8	-221.4	910.4	66.2
3	30.50	17.0	-3.5	2600	3089	6.5	-1.1	2438.5	431.7	-213.3	862.6	64.2
4	42.50	17.0	-3.5	2666	3089	6.5	-1.1	2421.5	435.3	-207.7	833.5	62.9
5	54.50	22.0	-5.0	3006	3356	6.6	-1.1	2404.0	438.1	-202.2	804.5	61.4
6	66.50	29.0	-6.6	3450	3420	6.6	-1.1	2381.4	443.3	-199.7	775.8	59.5
7	78.50	31.0	-5.5	3450	3420	6.6	-1.1	2352.1	449.9	-193.7	747.4	57.5
8	90.50	33.0	-5.5	3450	3420	6.6	-1.1	2320.7	455.6	-188.6	719.4	55.5
9	102.50	35.0	-5.5	3450	3420	6.6	-1.1	2287.2	461.1	-181.1	691.1	53.5
10	114.50	37.0	-4.9	3450	3420	6.6	-1.1	2251.7	466.3	-175.5	664.5	51.4
11	126.50	39.0	-4.8	3450	3420	6.6	-1.1	2214.0	471.1	-169.9	637.7	49.3
12	138.50	54.0	-9.1	4172	4125	13.1	-2.2	2174.3	476.1	-164.4	611.3	47.1
13	150.50	40.0	-2.2	2960	3450	13.1	-1.4	2119.8	485.5	-157.7	581.3	43.2
14	162.50	50.0	-6.6	3499	3440	14.0	-1.1	2078.9	489.4	-152.2	556.0	41.1
15	174.50	51.0	-2.6	3440	3379	14.0	-1.1	2028.7	492.0	-146.6	530.7	39.0
16	186.50	63.0	-2.2	4024	3940	15.0	-1.1	1977.2	492.6	-140.8	505.6	36.9
17	200.00	97.4	-16.0	5837	5781	16.0	-2.0	1914.0	490.0	-133.3	480.0	34.8
18	224.80	35.0	-7.7	2235	1668	16.0	-4.4	1816.6	506.4	-121.0	444.4	30.0
19	234.80	43.0	-9.9	2682	2000	16.0	-4.4	1780.9	498.6	-111.0	424.4	28.0
20	246.80	44.0	-4.4	2682	2000	16.0	-2.2	1737.5	488.8	-106.0	409.9	26.0
21	258.80	44.0	-6.6	2682	2000	16.0	-4.4	1693.6	478.4	-101.0	393.9	24.0
22	270.80	45.0	-3.3	2682	2000	16.0	-5.5	1649.0	467.4	-95.9	377.7	22.0
23	282.80	45.0	-3.3	2682	2000	16.0	-5.5	1603.8	456.1	-90.8	361.3	20.0
24	294.80	46.0	-4.4	2682	2000	16.0	-6.6	1558.0	444.4	-85.8	344.4	18.0
25	306.80	46.0	-4.4	2682	2000	16.0	-6.6	1511.6	432.2	-80.8	327.7	16.0
26	318.80	45.0	-3.3	2682	2000	16.0	-5.5	1465.5	419.9	-75.7	311.1	14.0
27	330.80	45.0	-4.4	2682	2000	16.0	-6.6	1419.6	406.6	-70.7	294.4	12.0
28	342.80	45.0	-4.4	2682	2000	16.0	-6.6	1374.4	393.3	-65.6	277.7	10.0
29	354.80	44.0	-5.5	2682	2000	16.0	-7.7	1329.3	380.0	-60.6	261.1	8.0
30	366.80	44.0	-4.4	2682	2000	16.0	-5.5	1284.4	366.6	-55.5	244.4	6.0
31	378.80	44.0	-4.4	2682	2000	16.0	-5.5	1240.0	353.3	-50.4	227.7	4.0
32	390.80	44.0	-1.1	2682	2000	16.0	-1.1	1196.5	339.9	-45.4	211.1	2.0
33	402.80	44.0	-1.1	2682	2000	16.0	-1.1	1152.4	325.5	-40.3	194.4	0.0
34	414.80	44.0	-1.1	2682	2000	16.0	-1.1	1108.3	312.2	-35.2	177.7	0.0
35	426.80	44.0	-1.1	2682	2000	16.0	-1.1	1064.2	298.8	-30.1	161.1	0.0
36	438.80	44.0	-1.1	2682	2000	16.0	-1.1	1020.0	285.5	-25.0	144.4	0.0
37	450.80	44.0	-1.1	2682	2000	16.0	-1.1	975.7	272.2	-20.0	127.7	0.0
38	462.80	44.0	-1.1	2682	2000	16.0	-1.1	931.5	258.8	-15.0	111.1	0.0
39	474.80	45.0	-1.1	2682	2000	16.0	-1.1	886.6	244.6	-10.0	94.4	0.0
40	486.80	46.0	-1.1	2682	2000	16.0	-1.1	841.1	232.2	-5.0	77.7	0.0
41	498.80	93.5	-3.3	5364	4004	17.0	-3.3	795.5	218.8	-1.1	61.1	0.0
42	522.80	47.4	-4.4	2682	2000	17.0	-4.4	750.1	189.9	0.0	44.4	0.0
43	534.80	47.4	-1.1	2682	2000	17.0	-1.1	704.4	174.4	0.0	27.7	0.0
44	546.80	47.4	-1.1	2682	2000	17.0	-1.1	658.4	159.9	0.0	11.1	0.0
45	558.80	46.0	-1.1	2682	2000	17.0	-1.1	612.7	145.5	0.0	0.0	0.0
46	570.80	46.0	-1.1	2682	2000	17.0	-1.1	566.0	131.1	0.0	0.0	0.0
47	582.80	45.0	-1.1	2682	2000	17.0	-1.1	519.9	118.2	0.0	0.0	0.0
48	594.80	45.0	-1.1	2682	2000	17.0	-1.1	473.7	105.5	0.0	0.0	0.0
49	606.80	45.0	-1.1	2682	2000	17.0	-1.1	427.5	92.8	0.0	0.0	0.0
50	618.80	44.0	-1.1	2682	2000	17.0	-1.1	381.3	78.8	0.0	0.0	0.0
51	630.80	50.0	-1.1	3299	2150	19.0	-1.1	335.0	63.3	0.0	0.0	0.0
52	642.80	50.0	-1.1	3299	2150	19.0	-1.1	288.8	46.6	0.0	0.0	0.0
53	654.80	56.0	-1.1	3349	1788	19.0	-1.1	242.6	35.5	0.0	0.0	0.0
54	666.80	56.0	-1.1	3349	2019	19.0	-1.1	196.4	24.4	0.0	0.0	0.0

U.S. STEEL GRANT STREET BUILDING												
GUST FACTOR 1.32												
REFERENCE PRESSURE 23.0 PSF												
CONFIGURATION A												
WIND DIRECTION 180												
TABLE 7. SHEAR AND MOMENT DIAGRAM :												
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT	Z-MOMENT
											1000-FT-KIPS	
MECH	666.50	79.1	15.5	5461	3970	14.5	3.9	119.4	23.9	-5	2.6	2.1
ROOF	692.80	40.3	8.5	3280	2000	12.3	4.2	40.3	8.5	-1	.5	.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 190

U. S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0	18.4	-8.6	2227	2951	8.3	-2.9	244.6	130.2	-112.2	945.9	64.6
2	11	27.2	-12.6	4084	5231	6.6	-2.4	242.2	138.8	-110.8	919.1	63.3
3	30	15.0	-5.4	2600	3389	5.9	-1.8	240.0	151.3	-107.9	872.0	60.7
4	42	15.0	-4.4	2600	3389	5.9	-1.4	233.8	156.8	-106.1	843.3	59.9
5	54	21.0	-7.8	3356	3356	6.6	-1.1	233.8	160.8	-104.2	814.3	57.7
6	66	28.3	-9.1	450	3420	8.2	-1.1	233.8	168.8	-102.2	786.4	55.5
7	78	30.1	-8.8	450	3420	8.2	-1.1	233.8	177.6	-100.1	758.8	53.3
8	90	32.0	-8.8	450	3420	8.2	-1.1	233.8	186.4	-97.9	730.3	51.1
9	102	33.8	-8.8	450	3420	8.2	-1.1	222.2	195.0	-95.5	703.4	49.0
10	114	35.7	-8.8	450	3420	8.2	-1.1	222.2	203.2	-93.3	676.6	46.8
11	126	37.6	-8.8	450	3420	8.2	-1.1	211.9	211.2	-90.8	650.0	44.6
12	138	51.5	-16.4	4172	4125	12.4	-4.0	215.2	219.4	-88.8	623.3	42.4
13	150	38.4	-9.9	3960	2898	13.0	-4.4	215.2	225.9	-85.5	594.2	40.2
14	162	46.4	-11.1	4440	3379	13.4	-4.4	200.0	245.7	-82.2	573.3	37.7
15	174	48.0	-11.1	4440	3379	13.4	-4.4	200.0	255.3	-79.9	548.8	35.5
16	186	58.4	-11.1	4440	3379	13.4	-4.4	199.0	263.3	-77.6	525.5	33.3
17	198	33.6	-6.6	3333	5781	15.0	-3.3	199.0	270.2	-77.2	500.0	31.1
18	210	40.3	-7.7	4444	1668	15.0	-3.3	177.7	302.8	-65.2	452.2	27.7
19	222	40.3	-7.7	4444	2002	15.0	-3.3	177.7	335.8	-62.2	434.4	25.5
20	234	40.3	-7.7	4444	2002	15.0	-3.3	177.7	368.8	-59.9	411.3	23.3
21	246	40.3	-7.7	4444	2002	15.0	-3.3	177.7	401.8	-57.7	392.2	21.1
22	258	40.3	-7.7	4444	2002	15.0	-3.3	166.6	434.8	-55.5	373.3	18.9
23	270	40.3	-7.7	4444	2002	15.0	-3.3	166.6	467.8	-52.2	354.4	16.7
24	282	40.3	-7.7	4444	2002	15.0	-3.3	166.6	500.8	-49.9	335.5	14.5
25	294	40.3	-7.7	4444	2002	15.0	-3.3	155.5	533.8	-47.7	316.6	12.3
26	306	41.2	-8.8	4444	2002	15.0	-4.4	155.5	566.8	-44.4	297.7	10.1
27	318	41.2	-8.8	4444	2002	15.0	-4.4	144.4	600.8	-40.0	278.8	7.9
28	330	42.1	-8.8	4444	2002	15.0	-4.4	144.4	633.8	-37.7	259.9	5.7
29	342	42.1	-8.8	4444	2002	15.0	-4.4	133.3	666.8	-34.4	241.1	3.5
30	354	42.1	-8.8	4444	2002	15.0	-4.4	133.3	700.8	-31.1	222.2	1.3
31	366	42.1	-8.8	4444	2002	16.0	-4.4	122.2	733.8	-29.9	203.3	0.0
32	378	43.4	-8.8	4444	2002	16.0	-4.4	111.1	766.8	-26.6	184.4	-2.2
33	390	43.4	-8.8	4444	2002	16.0	-4.4	111.1	800.8	-24.4	165.5	-4.4
34	402	44.3	-9.9	4444	2002	16.0	-5.5	111.1	833.8	-22.2	146.6	-6.6
35	414	44.3	-9.9	4444	2002	16.0	-5.5	111.1	866.8	-19.9	127.7	-8.8
36	426	44.3	-9.9	4444	2002	16.0	-5.5	111.1	900.8	-17.7	108.8	-11.0
37	438	45.2	-11.1	4444	2002	16.0	-6.6	111.1	933.8	-15.5	89.9	-13.2
38	450	45.2	-11.1	4444	2002	16.0	-6.6	111.1	966.8	-13.3	71.1	-15.4
39	462	46.3	-11.1	4444	2002	17.0	-7.7	111.1	1000.8	-11.1	52.2	-17.6
40	474	47.7	-11.1	4444	2002	17.0	-7.7	111.1	1033.8	-9.9	33.3	-19.8
41	486	48.4	-11.1	4444	2002	17.0	-7.7	111.1	1066.8	-8.8	14.4	-22.0
42	498	48.4	-11.1	4444	2002	18.0	-8.8	111.1	1100.8	-7.7	-5.5	-24.2
43	510	50.3	-20.0	4444	2002	18.0	-8.8	111.1	1133.8	-5.5	-26.6	-26.4
44	522	50.3	-19.9	4444	2002	18.0	-7.7	111.1	1166.8	-4.4	-47.7	-28.6
45	534	50.3	-19.9	4444	2002	18.0	-7.7	111.1	1200.8	-3.3	-68.8	-30.8
46	546	50.3	-19.9	4444	2002	18.0	-6.6	111.1	1233.8	-2.2	-89.9	-33.0
47	558	49.8	-19.9	4444	2002	18.0	-6.6	111.1	1266.8	-1.1	-111.1	-35.2
48	570	49.8	-19.9	4444	2002	18.0	-6.6	111.1	1300.8	-1.1	-132.2	-37.4
49	582	49.8	-19.9	4444	2002	18.0	-6.6	111.1	1333.8	-1.1	-153.3	-39.6
50	594	49.8	-19.9	4444	2002	18.0	-6.6	111.1	1366.8	-1.1	-174.4	-41.8
51	606	47.7	-19.9	4444	2192	16.0	-6.6	111.1	1400.8	-1.1	-195.5	-44.0
52	618	44.7	-19.9	4444	2192	15.0	-6.6	111.1	1433.8	-1.1	-216.6	-46.2
53	630	44.7	-19.9	4444	2192	15.0	-6.6	111.1	1466.8	-1.1	-237.7	-48.4
54	642	51.1	-4.4	4444	2503	15.0	-5.5	111.1	1500.8	-1.1	-258.8	-50.6
55	654	66.7	-4.4	4444	1782	22.8	-4.4	111.1	1533.8	-1.1	-279.9	-52.8
56	666	62.3	-4.4	4444	2019	23.3	-4.4	111.1	1566.8	-1.1	-301.1	-55.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 190

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	82.2	1.4	5461	3970	15.1	.4	116.4	1.5	- .0	2.4	1.4
ROOF	692.80	34.2	.0	3280	2000	10.4	.0	34.2	.0	- .0	.4	.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 200

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0	16.8	-11.7	2227	2951	7.5	-4.0	2334	-25.7	-555	914	6
2	11	25.1	-18.8	4084	5231	6.1	-3.3	2334	-14.1	-555	889	5
3	22	14.3	-9.6	2600	3089	5.5	-2.8	2222	4.4	-555	844	4
4	33	14.4	-8.5	2666	3089	5.4	-2.7	2222	14.3	-555	816	3
5	44	19.9	-10.6	3006	3356	6.6	-3.3	2222	22.8	-555	789	2
6	55	26.7	-11.2	3450	3420	7.7	-3.3	2222	33.4	-555	762	1
7	66	28.2	-10.8	3450	3420	8.2	-3.2	2222	44.6	-555	735	0
8	77	29.7	-10.5	3450	3420	8.7	-3.1	2222	55.4	-555	708	0
9	88	31.2	-10.2	3450	3420	9.2	-3.0	2222	66.6	-555	681	0
10	99	32.6	-9.9	3450	3420	9.7	-2.9	2222	77.7	-555	654	0
11	110	34.1	-10.0	3450	3420	10.2	-2.8	2222	88.9	-555	627	0
12	121	34.4	-10.0	3450	3420	10.7	-2.7	2222	100.0	-555	600	0
13	132	46.8	-18.9	4172	4125	11.2	-2.8	2222	111.1	-555	573	0
14	143	34.9	-11.1	3296	2898	11.8	-2.8	2222	122.2	-555	546	0
15	154	42.7	-12.1	3499	3417	12.2	-2.7	2222	133.3	-555	519	0
16	165	43.8	-11.0	3440	3379	12.7	-2.7	2222	144.4	-555	492	0
17	176	52.9	-10.3	4024	3940	13.1	-2.6	2222	155.5	-555	465	0
18	187	70.3	-11.3	5037	5781	13.4	-2.6	2222	166.6	-555	438	0
19	198	30.0	-11.3	3033	1668	13.4	-2.6	2222	177.7	-555	411	0
20	209	36.6	-11.3	3682	2002	13.9	-2.6	2222	188.8	-555	384	0
21	220	37.7	-11.3	3782	2002	14.1	-2.6	2222	199.9	-555	357	0
22	231	38.8	-11.3	3882	2002	14.3	-2.6	2222	211.1	-555	330	0
23	242	38.8	-11.3	3882	2002	14.3	-2.6	2222	222.2	-555	303	0
24	253	39.9	-11.3	3982	2002	14.6	-2.6	2222	233.3	-555	276	0
25	264	39.9	-11.3	3982	2002	14.6	-2.6	2222	244.4	-555	249	0
26	275	39.9	-11.3	3982	2002	14.9	-2.6	2222	255.5	-555	222	0
27	286	40.1	-11.3	4082	2002	15.1	-2.6	2222	266.6	-555	195	0
28	297	41.0	-11.3	4182	2002	15.3	-2.6	2222	277.7	-555	168	0
29	308	41.4	-11.3	4282	2002	15.4	-2.6	2222	288.8	-555	141	0
30	319	41.8	-11.3	4382	2002	15.6	-2.6	2222	299.9	-555	114	0
31	330	42.2	-11.3	4482	2002	15.7	-2.6	2222	311.1	-555	87	0
32	341	42.2	-11.3	4482	2002	15.7	-2.6	2222	322.2	-555	60	0
33	352	42.2	-11.3	4482	2002	15.7	-2.6	2222	333.3	-555	33	0
34	363	42.2	-11.3	4482	2002	15.7	-2.6	2222	344.4	-555	6	0
35	374	42.2	-11.3	4482	2002	15.7	-2.6	2222	355.5	-555	0	0
36	385	42.2	-11.3	4482	2002	15.7	-2.6	2222	366.6	-555	0	0
37	396	42.2	-11.3	4482	2002	15.7	-2.6	2222	377.7	-555	0	0
38	407	42.2	-11.3	4482	2002	15.7	-2.6	2222	388.8	-555	0	0
39	418	42.2	-11.3	4482	2002	15.7	-2.6	2222	399.9	-555	0	0
40	429	42.2	-11.3	4482	2002	15.7	-2.6	2222	411.1	-555	0	0
41	440	42.2	-11.3	4482	2002	15.7	-2.6	2222	422.2	-555	0	0
42	451	42.2	-11.3	4482	2002	15.7	-2.6	2222	433.3	-555	0	0
43	462	42.2	-11.3	4482	2002	15.7	-2.6	2222	444.4	-555	0	0
44	473	42.2	-11.3	4482	2002	15.7	-2.6	2222	455.5	-555	0	0
45	484	42.2	-11.3	4482	2002	15.7	-2.6	2222	466.6	-555	0	0
46	495	42.2	-11.3	4482	2002	15.7	-2.6	2222	477.7	-555	0	0
47	506	42.2	-11.3	4482	2002	15.7	-2.6	2222	488.8	-555	0	0
48	517	42.2	-11.3	4482	2002	15.7	-2.6	2222	499.9	-555	0	0
49	528	42.2	-11.3	4482	2002	15.7	-2.6	2222	511.1	-555	0	0
50	539	42.2	-11.3	4482	2002	15.7	-2.6	2222	522.2	-555	0	0
51	550	42.2	-11.3	4482	2002	15.7	-2.6	2222	533.3	-555	0	0
52	561	42.2	-11.3	4482	2002	15.7	-2.6	2222	544.4	-555	0	0
53	572	42.2	-11.3	4482	2002	15.7	-2.6	2222	555.5	-555	0	0
54	583	42.2	-11.3	4482	2002	15.7	-2.6	2222	566.6	-555	0	0
55	594	42.2	-11.3	4482	2002	15.7	-2.6	2222	577.7	-555	0	0
56	605	42.2	-11.3	4482	2002	15.7	-2.6	2222	588.8	-555	0	0
57	616	42.2	-11.3	4482	2002	15.7	-2.6	2222	599.9	-555	0	0
58	627	42.2	-11.3	4482	2002	15.7	-2.6	2222	611.1	-555	0	0
59	638	42.2	-11.3	4482	2002	15.7	-2.6	2222	622.2	-555	0	0
60	649	42.2	-11.3	4482	2002	15.7	-2.6	2222	633.3	-555	0	0
61	660	42.2	-11.3	4482	2002	15.7	-2.6	2222	644.4	-555	0	0
62	671	42.2	-11.3	4482	2002	15.7	-2.6	2222	655.5	-555	0	0
63	682	42.2	-11.3	4482	2002	15.7	-2.6	2222	666.6	-555	0	0
64	693	42.2	-11.3	4482	2002	15.7	-2.6	2222	677.7	-555	0	0
65	704	42.2	-11.3	4482	2002	15.7	-2.6	2222	688.8	-555	0	0
66	715	42.2	-11.3	4482	2002	15.7	-2.6	2222	699.9	-555	0	0
67	726	42.2	-11.3	4482	2002	15.7	-2.6	2222	711.1	-555	0	0
68	737	42.2	-11.3	4482	2002	15.7	-2.6	2222	722.2	-555	0	0
69	748	42.2	-11.3	4482	2002	15.7	-2.6	2222	733.3	-555	0	0
70	759	42.2	-11.3	4482	2002	15.7	-2.6	2222	744.4	-555	0	0
71	770	42.2	-11.3	4482	2002	15.7	-2.6	2222	755.5	-555	0	0
72	781	42.2	-11.3	4482	2002	15.7	-2.6	2222	766.6	-555	0	0
73	792	42.2	-11.3	4482	2002	15.7	-2.6	2222	777.7	-555	0	0
74	803	42.2	-11.3	4482	2002	15.7	-2.6	2222	788.8	-555	0	0
75	814	42.2	-11.3	4482	2002	15.7	-2.6	2222	799.9	-555	0	0
76	825	42.2	-11.3	4482	2002	15.7	-2.6	2222	811.1	-555	0	0
77	836	42.2	-11.3	4482	2002	15.7	-2.6	2222	822.2	-555	0	0
78	847	42.2	-11.3	4482	2002	15.7	-2.6	2222	833.3	-555	0	0
79	858	42.2	-11.3	4482	2002	15.7	-2.6	2222	844.4	-555	0	0
80	869	42.2	-11.3	4482	2002	15.7	-2.6	2222	855.5	-555	0	0
81	880	42.2	-11.3	4482	2002	15.7	-2.6	2222	866.6	-555	0	0
82	891	42.2	-11.3	4482	2002	15.7	-2.6	2222	877.7	-555	0	0
83	902	42.2	-11.3	4482	2002	15.7	-2.6	2222	888.8	-555	0	0
84	913	42.2	-11.3	4482	2002	15.7	-2.6	2222	899.9	-555	0	0
85	924	42.2	-11.3	4482	2002	15.7	-2.6	2222	911.1	-555	0	0
86	935	42.2	-11.3	4482	2002	15.7	-2.6	2222	922.2	-555	0	0
87	946	42.2	-11.3	4482	2002	15.7	-2.6	2222	933.3	-555	0	0
88	957	42.2	-11.3	4482	2002	15.7	-2.6	2222	944.4	-555	0	0
89	968	42.2	-11.3	4482	2002	15.7	-2.6	2222	955.5	-555	0	0
90	979	42.2	-11.3	4482	2002	15.7	-2.6	2222	966.6	-555	0	0
91	990	42.2	-11.3	4482	2002	15.7	-2.6	2222	977.7	-555	0	0
92	1001	42.2	-11.3	4482	2002	15.7	-2.6	2222	988.8	-555	0	0
93	1012	42.2	-11.3	4482	2002	15.7	-2.6	2222	999.9	-555	0	0
94	1023	42.2	-11.3	4482	2002	15.7	-2.6	2222	1011.1	-555	0	0
95	1034	42.2	-11.3	4482	2002	15.7	-2.6	2222	1022.2	-555	0	0
96	1045	42.2	-11.3	4482	2002	15.7	-2.6	2222	1033.3	-555	0	0
97	1056	42.2	-11.3	4482	2002	15.7	-2.6	2222	1044.4	-555	0	0
98	1067	42.2	-11.3	4482	2002	15.7	-2.6	2222	1055.5	-555	0	0
99	1078	42.2	-11.3	4482	2002	15.7	-2.6	2222	1066.6	-555	0	0
100	1089	42.2	-11.3	4482	2002	15.7	-2.6	2222	1077.7	-555	0	0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 200		CONFIGURATION A								REFERENCE PRESSURE 23.0 PSF		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	82.2	1.2	5461	3970	15.0	.3	116.3	4.0	-.1	2.4	.3
ROOF	692.80	34.1	2.8	3280	2000	10.4	1.4	34.1	2.8	-.0	.4	.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 210

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0	12.4	-10.9	2227	2951	5.6	-3.3	204.4	-18.9	12.0	813.7	38.8
2	11	19.3	-19.6	4084	5231	4.7	-3.3	203.3	-17.8	10.7	791.1	37.7
3	30	11.4	-11.4	2600	3089	4.5	-3.3	201.4	-15.9	6.6	751.1	34.8
4	42	11.4	-11.4	2666	3089	4.6	-3.3	200.2	-14.7	4.8	727.1	31.1
5	44	16.5	-14.1	3006	3356	5.5	-4.4	199.0	-13.6	3.1	703.1	22.2
6	45	11.5	-14.5	3345	420	6.2	-4.4	197.7	-12.2	1.6	679.1	9.9
7	45	11.5	-13.5	3345	420	6.6	-4.4	195.1	-10.7	0.0	656.4	0.0
8	45	12.4	-12.4	3345	420	7.7	-4.4	192.9	-9.4	0.0	633.1	1.1
9	45	12.4	-12.4	3345	420	7.7	-4.4	190.0	-8.1	0.0	610.1	1.1
10	45	11.4	-11.4	3345	420	8.8	-4.4	187.7	-6.9	0.0	587.1	4.4
11	126	28.4	-11.1	3345	420	8.8	-4.4	185.5	-5.7	0.0	565.1	8.8
12	138	29.9	-20.0	4472	4125	9.4	-5.5	182.3	-4.6	0.0	542.1	8.8
13	152	29.9	-13.9	2960	2898	8.8	-4.4	178.8	-2.6	0.0	517.1	4.4
14	174	36.6	-15.5	3345	3417	10.2	-4.4	175.5	-1.2	0.0	500.0	7.7
15	186	44.9	-14.4	3345	3379	10.7	-4.4	171.1	-1.1	0.0	479.1	4.4
16	220	55.9	-16.2	3345	3940	11.2	-5.5	168.8	-1.8	0.0	458.1	7.7
17	222	55.9	-12.9	3345	2781	12.1	-5.5	163.3	-3.4	0.0	435.1	2.2
18	224	55.9	-4.4	3345	1668	13.9	-5.5	156.6	-6.3	0.0	396.1	0.0
19	224	55.9	-4.4	3345	1668	13.9	-5.5	155.3	-5.9	0.0	381.1	1.1
20	224	55.9	-4.4	3345	1668	13.9	-5.5	153.3	-5.3	0.0	362.1	7.7
21	224	55.9	-4.4	3345	1668	13.9	-5.5	151.1	-4.4	0.0	344.1	8.8
22	224	55.9	-4.4	3345	1668	13.9	-5.5	148.8	-4.4	0.0	327.1	8.8
23	224	55.9	-4.4	3345	1668	13.9	-5.5	146.6	-4.4	0.0	310.1	5.5
24	224	55.9	-4.4	3345	1668	13.9	-5.5	144.4	-4.4	0.0	294.1	4.4
25	224	55.9	-4.4	3345	1668	13.9	-5.5	142.2	-4.4	0.0	277.1	8.8
26	224	55.9	-4.4	3345	1668	13.9	-5.5	140.0	-4.4	0.0	262.1	8.8
27	224	55.9	-4.4	3345	1668	13.9	-5.5	137.7	-4.4	0.0	246.1	9.9
28	224	55.9	-4.4	3345	1668	13.9	-5.5	135.5	-4.4	0.0	232.1	9.9
29	224	55.9	-4.4	3345	1668	13.9	-5.5	133.3	-4.4	0.0	217.1	6.6
30	224	55.9	-4.4	3345	1668	13.9	-5.5	131.1	-4.4	0.0	203.1	5.5
31	224	55.9	-4.4	3345	1668	13.9	-5.5	128.9	-4.4	0.0	190.1	4.4
32	224	55.9	-4.4	3345	1668	13.9	-5.5	126.7	-4.4	0.0	176.1	3.3
33	224	55.9	-4.4	3345	1668	13.9	-5.5	124.4	-4.4	0.0	164.1	2.2
34	224	55.9	-4.4	3345	1668	13.9	-5.5	122.2	-4.4	0.0	151.1	1.1
35	224	55.9	-4.4	3345	1668	13.9	-5.5	120.0	-4.4	0.0	140.1	0.0
36	224	55.9	-4.4	3345	1668	13.9	-5.5	117.7	-4.4	0.0	128.1	9.9
37	224	55.9	-4.4	3345	1668	13.9	-5.5	115.5	-4.4	0.0	117.1	8.8
38	224	55.9	-4.4	3345	1668	13.9	-5.5	113.3	-4.4	0.0	107.1	7.7
39	224	55.9	-4.4	3345	1668	13.9	-5.5	111.1	-4.4	0.0	97.1	6.6
40	224	55.9	-4.4	3345	1668	13.9	-5.5	108.9	-4.4	0.0	87.1	5.5
41	224	55.9	-4.4	3345	1668	13.9	-5.5	106.7	-4.4	0.0	78.1	4.4
42	224	55.9	-4.4	3345	1668	13.9	-5.5	104.4	-4.4	0.0	71.1	3.3
43	224	55.9	-4.4	3345	1668	13.9	-5.5	102.2	-4.4	0.0	66.1	2.2
44	224	55.9	-4.4	3345	1668	13.9	-5.5	100.0	-4.4	0.0	61.1	1.1
45	224	55.9	-4.4	3345	1668	13.9	-5.5	97.7	-4.4	0.0	55.1	0.0
46	224	55.9	-4.4	3345	1668	13.9	-5.5	95.5	-4.4	0.0	49.1	0.0
47	224	55.9	-4.4	3345	1668	13.9	-5.5	93.3	-4.4	0.0	43.1	0.0
48	224	55.9	-4.4	3345	1668	13.9	-5.5	91.1	-4.4	0.0	37.1	0.0
49	224	55.9	-4.4	3345	1668	13.9	-5.5	88.9	-4.4	0.0	31.1	0.0
50	224	55.9	-4.4	3345	1668	13.9	-5.5	86.7	-4.4	0.0	25.1	0.0
51	224	55.9	-4.4	3345	1668	13.9	-5.5	84.4	-4.4	0.0	19.1	0.0
52	224	55.9	-4.4	3345	1668	13.9	-5.5	82.2	-4.4	0.0	13.1	0.0
53	224	55.9	-4.4	3345	1668	13.9	-5.5	80.0	-4.4	0.0	7.1	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 210

MOMENT DIAGRAMS ;  
CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT 1000-FT-KIPS
MECH	666.50	78.1	-2.4	5461	3970	14.3	-.6	112.2	-3.4	.1	2.3	-.5
ROOF	692.80	34.0	-1.0	3280	2000	10.4	-.5	34.0	-1.0	.0	.4	-.1



TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 220

MOMENT DIAGRAMS ;  
CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	7.9	-10.5	2227	2951	3.6	-	191.6	7.3	61.9	800.0	19.6
2	11.00	12.7	-18.8	4084	5231	3.1	-	190.0	0.8	58.0	779.0	18.5
3	22.00	8.1	-10.8	2600	3089	3.1	-	189.9	0.0	55.5	741.9	16.6
4	33.00	8.7	-10.8	2666	3089	3.2	-	189.8	0.0	51.2	719.2	15.2
5	44.00	12.0	-12.0	3006	3356	4.0	-	187.9	0.4	47.5	696.6	13.3
6	55.00	17.4	-12.2	3450	3420	5.1	-	186.7	0.4	44.4	674.1	12.2
7	66.00	18.3	-11.6	3450	3420	5.3	-	185.0	0.0	42.2	651.8	11.0
8	78.00	19.3	-11.0	3450	3420	5.6	-	183.3	0.4	39.9	629.7	9.9
9	90.00	20.2	-10.4	3450	3420	5.8	-	181.2	0.0	37.7	607.8	8.8
10	102.00	21.1	-9.8	3450	3420	6.1	-	179.2	0.0	35.5	586.2	7.7
11	114.00	22.0	-9.7	3450	3420	6.4	-	177.1	0.0	33.2	564.8	6.6
12	126.00	22.9	-18.8	4172	4125	7.7	-	174.9	0.2	30.7	543.7	5.4
13	138.00	23.8	-12.8	2960	2898	5.5	-	171.1	0.0	28.5	519.4	4.2
14	150.00	24.7	-14.3	3499	3417	7.7	-	169.9	0.0	26.3	492.2	3.1
15	162.00	25.5	-13.5	3440	3379	8.0	-	166.9	0.0	24.1	462.2	2.0
16	174.00	26.4	-14.7	4024	3940	8.8	-	164.4	0.0	22.4	433.3	1.0
MECH 17	200.00	25.5	-25.1	5837	5781	10.1	-	160.0	0.0	22.1	433.3	0.0
MECH 18	224.00	1.3	1.3	2235	1668	10.6	-	154.0	0.0	21.1	401.1	-2.2
19	234.00	1.2	1.2	2682	2002	10.7	-	152.2	0.0	20.4	385.9	-3.3
20	246.00	1.2	1.2	2682	2002	10.9	-	149.4	0.0	19.6	367.8	-4.4
21	255.00	1.1	1.1	2682	2002	11.0	-	146.6	0.0	18.8	350.0	-5.5
22	270.00	1.1	1.1	2682	2002	11.2	-	143.3	0.0	18.0	332.6	-6.6
23	282.00	1.1	1.1	2682	2002	11.4	-	140.0	0.0	17.2	315.6	-7.7
24	294.00	1.1	1.1	2682	2002	11.6	-	137.7	0.0	16.4	298.9	-8.8
25	306.00	1.1	1.1	2682	2002	11.8	-	135.4	0.0	15.5	282.2	-9.9
26	318.00	1.1	1.1	2682	2002	12.0	-	133.3	0.0	14.4	266.6	-11.0
27	330.00	1.1	1.1	2682	2002	12.2	-	131.1	0.0	13.3	251.1	-12.2
28	342.00	1.1	1.1	2682	2002	12.4	-	129.0	0.0	12.2	235.5	-13.3
29	354.00	1.1	1.1	2682	2002	12.6	-	126.9	0.0	11.1	220.0	-14.4
30	366.00	1.1	1.1	2682	2002	12.8	-	124.8	0.0	10.0	204.4	-15.5
31	378.00	1.1	1.1	2682	2002	13.0	-	122.7	0.0	8.9	188.9	-16.6
32	390.00	1.1	1.1	2682	2002	13.2	-	120.6	0.0	7.8	173.3	-17.7
33	402.00	1.1	1.1	2682	2002	13.4	-	118.5	0.0	6.7	157.8	-18.8
34	414.00	1.1	1.1	2682	2002	13.6	-	116.4	0.0	5.6	142.2	-19.9
35	426.00	1.1	1.1	2682	2002	13.8	-	114.3	0.0	4.5	126.6	-21.0
36	438.00	1.1	1.1	2682	2002	14.0	-	112.2	0.0	3.4	111.1	-22.2
37	450.00	1.1	1.1	2682	2002	14.2	-	110.1	0.0	2.3	95.6	-23.3
38	462.00	1.1	1.1	2682	2002	14.4	-	108.0	0.0	1.2	80.0	-24.4
39	474.00	1.1	1.1	2682	2002	14.6	-	105.9	0.0	0.1	64.4	-25.5
MECH 40	486.00	1.1	1.1	2682	2002	14.8	-	103.8	0.0	0.0	48.9	-26.6
41	498.00	1.1	1.1	2682	2002	15.0	-	101.7	0.0	0.0	33.3	-27.7
42	510.00	1.1	1.1	2682	2002	15.2	-	99.6	0.0	0.0	17.8	-28.8
43	522.00	1.1	1.1	2682	2002	15.4	-	97.5	0.0	0.0	2.2	-29.9
44	534.00	1.1	1.1	2682	2002	15.6	-	95.4	0.0	0.0	0.0	-31.0
45	546.00	1.1	1.1	2682	2002	15.8	-	93.3	0.0	0.0	0.0	-32.2
46	558.00	1.1	1.1	2682	2002	16.0	-	91.2	0.0	0.0	0.0	-33.3
47	570.00	1.1	1.1	2682	2002	16.2	-	89.1	0.0	0.0	0.0	-34.4
48	582.00	1.1	1.1	2682	2002	16.4	-	87.0	0.0	0.0	0.0	-35.5
49	594.00	1.1	1.1	2682	2002	16.6	-	84.9	0.0	0.0	0.0	-36.6
50	606.00	1.1	1.1	2682	2002	16.8	-	82.8	0.0	0.0	0.0	-37.7
51	618.00	1.1	1.1	2682	2002	17.0	-	80.7	0.0	0.0	0.0	-38.8
52	630.00	1.1	1.1	2682	2002	17.2	-	78.6	0.0	0.0	0.0	-39.9
53	642.00	1.1	1.1	2682	2002	17.4	-	76.5	0.0	0.0	0.0	-41.0
54	654.00	1.1	1.1	2682	2002	17.6	-	74.4	0.0	0.0	0.0	-42.2
55	666.00	1.1	1.1	2682	2002	17.8	-	72.3	0.0	0.0	0.0	-43.3
56	678.00	1.1	1.1	2682	2002	18.0	-	70.2	0.0	0.0	0.0	-44.4
57	690.00	1.1	1.1	2682	2002	18.2	-	68.1	0.0	0.0	0.0	-45.5
58	702.00	1.1	1.1	2682	2002	18.4	-	66.0	0.0	0.0	0.0	-46.6
59	714.00	1.1	1.1	2682	2002	18.6	-	63.9	0.0	0.0	0.0	-47.7
60	726.00	1.1	1.1	2682	2002	18.8	-	61.8	0.0	0.0	0.0	-48.8
61	738.00	1.1	1.1	2682	2002	19.0	-	59.7	0.0	0.0	0.0	-49.9
62	750.00	1.1	1.1	2682	2002	19.2	-	57.6	0.0	0.0	0.0	-51.0
63	762.00	1.1	1.1	2682	2002	19.4	-	55.5	0.0	0.0	0.0	-52.2
64	774.00	1.1	1.1	2682	2002	19.6	-	53.4	0.0	0.0	0.0	-53.3
65	786.00	1.1	1.1	2682	2002	19.8	-	51.3	0.0	0.0	0.0	-54.4
66	798.00	1.1	1.1	2682	2002	20.0	-	49.2	0.0	0.0	0.0	-55.5
67	810.00	1.1	1.1	2682	2002	20.2	-	47.1	0.0	0.0	0.0	-56.6
68	822.00	1.1	1.1	2682	2002	20.4	-	45.0	0.0	0.0	0.0	-57.7
69	834.00	1.1	1.1	2682	2002	20.6	-	42.9	0.0	0.0	0.0	-58.8
70	846.00	1.1	1.1	2682	2002	20.8	-	40.8	0.0	0.0	0.0	-59.9
71	858.00	1.1	1.1	2682	2002	21.0	-	38.7	0.0	0.0	0.0	-61.0
72	870.00	1.1	1.1	2682	2002	21.2	-	36.6	0.0	0.0	0.0	-62.2
73	882.00	1.1	1.1	2682	2002	21.4	-	34.5	0.0	0.0	0.0	-63.3
74	894.00	1.1	1.1	2682	2002	21.6	-	32.4	0.0	0.0	0.0	-64.4
75	906.00	1.1	1.1	2682	2002	21.8	-	30.3	0.0	0.0	0.0	-65.5
76	918.00	1.1	1.1	2682	2002	22.0	-	28.2	0.0	0.0	0.0	-66.6
77	930.00	1.1	1.1	2682	2002	22.2	-	26.1	0.0	0.0	0.0	-67.7
78	942.00	1.1	1.1	2682	2002	22.4	-	24.0	0.0	0.0	0.0	-68.8
79	954.00	1.1	1.1	2682	2002	22.6	-	21.9	0.0	0.0	0.0	-69.9
80	966.00	1.1	1.1	2682	2002	22.8	-	19.8	0.0	0.0	0.0	-71.0
81	978.00	1.1	1.1	2682	2002	23.0	-	17.7	0.0	0.0	0.0	-72.2
82	990.00	1.1	1.1	2682	2002	23.2	-	15.6	0.0	0.0	0.0	-73.3
83	1002.00	1.1	1.1	2682	2002	23.4	-	13.5	0.0	0.0	0.0	-74.4
84	1014.00	1.1	1.1	2682	2002	23.6	-	11.4	0.0	0.0	0.0	-75.5
85	1026.00	1.1	1.1	2682	2002	23.8	-	9.3	0.0	0.0	0.0	-76.6
86	1038.00	1.1	1.1	2682	2002	24.0	-	7.2	0.0	0.0	0.0	-77.7
87	1050.00	1.1	1.1	2682	2002	24.2	-	5.1	0.0	0.0	0.0	-78.8
88	1062.00	1.1	1.1	2682	2002	24.4	-	3.0	0.0	0.0	0.0	-79.9
89	1074.00	1.1	1.1	2682	2002	24.6	-	0.9	0.0	0.0	0.0	-81.0
90	1086.00	1.1	1.1	2682	2002	24.8	-	-1.2	0.0	0.0	0.0	-82.2
91	1098.00	1.1	1.1	2682	2002	25.0	-	-3.3	0.0	0.0	0.0	-83.3
92	1110.00	1.1	1.1	2682	2002	25.2	-	-5.4	0.0	0.0	0.0	-84.4
93	1122.00	1.1	1.1	2682	2002	25.4	-	-7.5	0.0	0.0	0.0	-85.5
94	1134.00	1.1	1.1	2682	2002	25.6	-	-9.6	0.0	0.0	0.0	-86.6
95	1146.00	1.1	1.1	2682	2002	25.8	-	-11.7	0.0	0.0	0.0	-87.7
96	1158.00	1.1	1.1	2682	2002	26.0	-	-13.8	0.0	0.0	0.0	-88.8
97	1170.00	1.1	1.1	2682	2002	26.2	-	-15.9	0.0	0.0	0.0	-89.9
98	1182.00	1.1	1.1	2682	2002	26.4	-	-18.0	0.0	0.0	0.0	-91.0
99	1194.00	1.1	1.1	2682	2002	26.6	-	-20.1	0.0	0.0	0.0	-92.2
100	1206.00	1.1	1.1	2682	2002	26.8	-	-22.2	0.0	0.0	0.0	-93.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 220		CONFIGURATION A				REFERENCE PRESSURE 23.0 PSF						
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	80.5	-5.7	5461	3970	14.7	-1.4	116.4	-8.7	.2	2.4	-1.4
ROOF	692.80	36.0	-3.1	3280	2000	11.0	-1.5	36.0	-3.1	.0	.4	-.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 230

MOMENT DIAGRAMS :  
CONFIGURATION A

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
53	654.4	7.6	4.5	2227	2951	1.8	4.4	17337	-783	287.2	755.1	8.7
52	644.4	7.6	4.5	2227	2951	1.8	4.4	17333	-778	286.8	754.6	8.6
51	634.4	7.6	4.5	2227	2951	1.8	4.4	17329	-773	286.4	754.1	8.5
50	624.4	7.6	4.5	2227	2951	1.8	4.4	17325	-768	286.0	753.6	8.4
49	614.4	7.6	4.5	2227	2951	1.8	4.4	17321	-763	285.6	753.1	8.3
48	604.4	7.6	4.5	2227	2951	1.8	4.4	17317	-758	285.2	752.6	8.2
47	594.4	7.6	4.5	2227	2951	1.8	4.4	17313	-753	284.8	752.1	8.1
46	584.4	7.6	4.5	2227	2951	1.8	4.4	17309	-748	284.4	751.6	8.0
45	574.4	7.6	4.5	2227	2951	1.8	4.4	17305	-743	284.0	751.1	7.9
44	564.4	7.6	4.5	2227	2951	1.8	4.4	17301	-738	283.6	750.6	7.8
43	554.4	7.6	4.5	2227	2951	1.8	4.4	17297	-733	283.2	750.1	7.7
42	544.4	7.6	4.5	2227	2951	1.8	4.4	17293	-728	282.8	749.6	7.6
41	534.4	7.6	4.5	2227	2951	1.8	4.4	17289	-723	282.4	749.1	7.5
40	524.4	7.6	4.5	2227	2951	1.8	4.4	17285	-718	282.0	748.6	7.4
39	514.4	7.6	4.5	2227	2951	1.8	4.4	17281	-713	281.6	748.1	7.3
38	504.4	7.6	4.5	2227	2951	1.8	4.4	17277	-708	281.2	747.6	7.2
37	494.4	7.6	4.5	2227	2951	1.8	4.4	17273	-703	280.8	747.1	7.1
36	484.4	7.6	4.5	2227	2951	1.8	4.4	17269	-698	280.4	746.6	7.0
35	474.4	7.6	4.5	2227	2951	1.8	4.4	17265	-693	280.0	746.1	6.9
34	464.4	7.6	4.5	2227	2951	1.8	4.4	17261	-688	279.6	745.6	6.8
33	454.4	7.6	4.5	2227	2951	1.8	4.4	17257	-683	279.2	745.1	6.7
32	444.4	7.6	4.5	2227	2951	1.8	4.4	17253	-678	278.8	744.6	6.6
31	434.4	7.6	4.5	2227	2951	1.8	4.4	17249	-673	278.4	744.1	6.5
30	424.4	7.6	4.5	2227	2951	1.8	4.4	17245	-668	278.0	743.6	6.4
29	414.4	7.6	4.5	2227	2951	1.8	4.4	17241	-663	277.6	743.1	6.3
28	404.4	7.6	4.5	2227	2951	1.8	4.4	17237	-658	277.2	742.6	6.2
27	394.4	7.6	4.5	2227	2951	1.8	4.4	17233	-653	276.8	742.1	6.1
26	384.4	7.6	4.5	2227	2951	1.8	4.4	17229	-648	276.4	741.6	6.0
25	374.4	7.6	4.5	2227	2951	1.8	4.4	17225	-643	276.0	741.1	5.9
24	364.4	7.6	4.5	2227	2951	1.8	4.4	17221	-638	275.6	740.6	5.8
23	354.4	7.6	4.5	2227	2951	1.8	4.4	17217	-633	275.2	740.1	5.7
22	344.4	7.6	4.5	2227	2951	1.8	4.4	17213	-628	274.8	739.6	5.6
21	334.4	7.6	4.5	2227	2951	1.8	4.4	17209	-623	274.4	739.1	5.5
20	324.4	7.6	4.5	2227	2951	1.8	4.4	17205	-618	274.0	738.6	5.4
19	314.4	7.6	4.5	2227	2951	1.8	4.4	17201	-613	273.6	738.1	5.3
18	304.4	7.6	4.5	2227	2951	1.8	4.4	17197	-608	273.2	737.6	5.2
17	294.4	7.6	4.5	2227	2951	1.8	4.4	17193	-603	272.8	737.1	5.1
16	284.4	7.6	4.5	2227	2951	1.8	4.4	17189	-598	272.4	736.6	5.0
15	274.4	7.6	4.5	2227	2951	1.8	4.4	17185	-593	272.0	736.1	4.9
14	264.4	7.6	4.5	2227	2951	1.8	4.4	17181	-588	271.6	735.6	4.8
13	254.4	7.6	4.5	2227	2951	1.8	4.4	17177	-583	271.2	735.1	4.7
12	244.4	7.6	4.5	2227	2951	1.8	4.4	17173	-578	270.8	734.6	4.6
11	234.4	7.6	4.5	2227	2951	1.8	4.4	17169	-573	270.4	734.1	4.5
10	224.4	7.6	4.5	2227	2951	1.8	4.4	17165	-568	270.0	733.6	4.4
9	214.4	7.6	4.5	2227	2951	1.8	4.4	17161	-563	269.6	733.1	4.3
8	204.4	7.6	4.5	2227	2951	1.8	4.4	17157	-558	269.2	732.6	4.2
7	194.4	7.6	4.5	2227	2951	1.8	4.4	17153	-553	268.8	732.1	4.1
6	184.4	7.6	4.5	2227	2951	1.8	4.4	17149	-548	268.4	731.6	4.0
5	174.4	7.6	4.5	2227	2951	1.8	4.4	17145	-543	268.0	731.1	3.9
4	164.4	7.6	4.5	2227	2951	1.8	4.4	17141	-538	267.6	730.6	3.8
3	154.4	7.6	4.5	2227	2951	1.8	4.4	17137	-533	267.2	730.1	3.7
2	144.4	7.6	4.5	2227	2951	1.8	4.4	17133	-528	266.8	729.6	3.6
1	134.4	7.6	4.5	2227	2951	1.8	4.4	17129	-523	266.4	729.1	3.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 230

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	81.0	-28.6	5461	3970	14.8	-7.2	113.9	-42.9	.9	2.3	-1.7
ROOF	692.80	32.9	-14.3	3280	2000	10.0	-7.2	32.9	-14.3	.2	.4	-.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 240

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	.8	-14.7	2227	2951	.4	-5.0	1763.9	-106.7	399.6	792.3	2.4
2	11.00	.4	-24.5	4084	5233	.1	-4.7	1763.3	-105.5	388.8	772.9	1.5
3	30.50	.2	-13.1	2600	3088	.1	-4.2	1762.2	-102.7	358.7	738.5	1.1
4	42.50	.4	-12.2	2666	3306	.1	-4.0	1762.2	-101.4	355.5	717.7	1.1
5	54.50	.3	-14.9	3006	3420	.1	-4.5	1762.2	-100.2	343.3	696.2	1.1
6	66.50	.0	-15.9	3450	3420	.0	-4.6	1758.8	-98.7	331.4	675.1	1.1
7	78.50	.7	-15.5	3450	3420	.2	-4.5	1751.1	-97.1	319.9	654.4	1.1
8	90.50	.8	-15.1	3450	3420	.2	-4.4	1743.8	-95.6	308.0	633.3	1.1
9	99.50	.9	-14.7	3450	3420	.2	-4.3	1735.0	-94.1	296.6	612.2	1.1
10	114.50	1.0	-14.4	3450	3420	.3	-4.3	1725.3	-92.6	285.5	591.4	1.1
11	126.50	1.1	-14.7	3450	3420	.3	-4.3	1711.4	-91.3	274.4	570.0	1.1
12	138.50	1.1	-14.7	4172	4129	.4	-6.7	1703.3	-89.9	263.3	550.0	1.1
13	152.50	1.3	-19.6	2960	2899	.4	-6.8	1686.6	-88.6	252.2	529.9	1.1
14	162.50	1.7	-22.8	3499	3341	.5	-6.5	1672.2	-87.0	240.9	509.7	1.1
15	174.50	1.8	-22.1	3440	3337	.5	-6.5	1655.5	-85.5	229.2	489.9	1.1
16	186.50	2.3	-25.5	4024	3940	.6	-6.5	1637.7	-83.7	217.7	470.0	1.1
17	200.80	4.7	-37.6	5837	5781	.8	-6.5	1614.1	-77.7	211.1	446.6	1.1
18	224.80	2.1	-7.5	2235	1668	.1	-4.4	1566.6	-74.2	193.9	408.8	1.1
19	244.80	1.1	-9.9	2682	2000	.2	-5.5	1545.5	-73.4	181.8	393.3	1.1
20	258.80	2.2	-12.1	2682	2000	.3	-5.5	1518.8	-72.4	170.7	374.4	1.1
21	270.80	2.5	-13.3	2682	2000	.4	-5.5	1491.1	-71.3	159.6	356.6	1.1
22	282.80	3.0	-14.5	2682	2000	.5	-6.6	1462.2	-70.1	148.5	338.8	1.1
23	294.80	3.3	-14.7	2682	2000	.7	-6.6	1432.2	-68.8	137.4	321.1	1.1
24	306.80	3.3	-15.7	2682	2000	.8	-6.6	1400.0	-67.5	126.3	303.3	1.1
25	318.80	3.4	-16.1	2682	2000	.8	-6.6	1367.7	-65.9	115.2	285.5	1.1
26	330.80	3.4	-16.4	2682	2000	.9	-6.6	1334.4	-64.9	104.1	267.7	1.1
27	342.80	3.5	-16.7	2682	2000	.9	-6.6	1299.9	-62.2	93.0	250.0	1.1
28	354.80	3.3	-17.0	2682	2000	.9	-6.5	1266.6	-60.0	81.9	232.2	1.1
29	366.80	3.3	-17.3	2682	2000	.9	-6.5	1222.6	-59.2	70.8	214.4	1.1
30	378.80	3.3	-17.7	2682	2000	.9	-6.5	1188.8	-57.7	59.7	196.6	1.1
31	390.80	3.3	-17.9	2682	2000	.9	-6.5	1149.9	-55.7	48.6	178.8	1.1
32	402.80	3.3	-18.3	2682	2000	.9	-6.5	1111.0	-53.9	37.5	161.1	1.1
33	414.80	3.3	-18.6	2682	2000	.9	-6.5	1071.1	-52.0	26.4	143.3	1.1
34	426.80	3.3	-19.3	2682	2000	.9	-6.5	1032.2	-50.0	15.3	125.5	1.1
35	438.80	3.3	-19.3	2682	2000	.9	-6.5	993.3	-48.0	4.2	107.7	1.1
36	450.80	3.3	-19.7	2682	2000	.9	-6.5	955.5	-46.4	3.1	89.9	1.1
37	462.80	3.3	-20.2	2682	2000	.9	-6.5	916.6	-44.4	2.0	72.1	1.1
38	474.80	3.3	-20.5	2682	2000	.9	-6.5	877.7	-42.4	1.0	54.3	1.1
39	486.80	3.3	-20.8	2682	2000	.9	-6.5	838.8	-40.4	0.0	36.5	1.1
40	498.80	3.3	-21.1	2682	2000	.9	-6.5	800.0	-38.4	0.0	18.7	1.1
41	510.80	3.3	-21.4	2682	2000	.9	-6.5	762.2	-36.1	0.0	1.0	1.1
42	522.80	3.3	-21.9	2682	2000	.9	-6.5	723.3	-33.8	0.0	0.0	1.1
43	534.80	3.3	-22.2	2682	2000	.9	-6.5	684.4	-31.8	0.0	0.0	1.1
44	546.80	3.3	-22.6	2682	2000	.9	-6.5	645.5	-29.7	0.0	0.0	1.1
45	558.80	4.0	-23.1	2682	2000	.9	-6.5	606.6	-27.7	0.0	0.0	1.1
46	570.80	4.0	-23.6	2682	2000	.9	-6.5	567.7	-25.7	0.0	0.0	1.1
47	582.80	4.1	-24.1	2682	2000	.9	-6.5	528.8	-23.7	0.0	0.0	1.1
48	594.80	4.1	-24.5	2682	2000	.9	-6.5	490.0	-21.7	0.0	0.0	1.1
49	606.80	4.3	-25.3	2682	2000	.9	-6.6	451.1	-19.7	0.0	0.0	1.1
50	618.80	4.4	-25.5	2682	2000	.9	-6.6	412.2	-17.7	0.0	0.0	1.1
51	630.80	4.4	-25.9	2682	2000	.9	-6.6	373.3	-15.7	0.0	0.0	1.1
52	644.50	6.9	-32.1	2682	2000	.9	-6.6	334.4	-13.7	0.0	0.0	1.1
53	654.50	6.5	-32.0	2682	2000	.9	-6.6	295.5	-11.7	0.0	0.0	1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 240

CONFIGURATION A U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	84.7	-36.6	5461	3970	15.5	-9.2	123.6	-52.8	1.1	2.6	-1.8
ROOF	692.80	38.8	-16.2	3280	2000	11.8	-8.1	38.8	-16.2	.2	.5	-.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS  
WIND DIRECTION 250

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-1.9	-14.9	2227	2951	-1.9	-5.1	1982.4	-1157.6	438.6	914.3	-1.8
2	11.00	-3.5	-23.3	4084	5231	-1.9	-4.5	1984.3	-1144.2	426.0	892.4	-2.2
3	30.00	-2.2	-11.1	2600	3389	-1.1	-3.7	1987.8	-1111.9	403.9	853.7	-4.1
4	42.00	-2.2	-9.8	2666	3389	-1.1	-3.2	1990.0	-1108.3	390.6	829.8	-5.0
5	54.00	1.3	-12.6	3086	3556	1.4	-4.4	1992.3	-1098.8	377.7	805.9	-5.9
6	66.00	5.5	-13.9	3450	4200	1.6	-4.1	1991.1	-1089.5	364.2	782.0	-6.8
7	78.00	6.6	-13.4	3450	4200	1.6	-3.9	1988.5	-1079.8	351.5	758.2	-7.7
8	90.00	6.6	-13.4	3450	4200	1.6	-3.8	1987.9	-1079.8	338.8	734.4	-8.6
9	102.00	7.7	-12.5	3450	4200	2.2	-3.7	1979.1	-1064.4	325.9	710.6	-9.5
10	114.00	8.0	-12.1	3450	4200	2.2	-3.5	1964.4	-1044.4	313.4	687.1	-10.4
11	126.00	8.6	-12.3	3450	4200	2.2	-3.6	1956.6	-1029.8	301.1	663.3	-11.3
12	138.00	13.2	-26.0	4172	4125	2.5	-6.3	1948.8	-1000.9	288.8	640.0	-12.2
13	152.00	10.1	-19.4	2960	3389	3.3	-6.7	1935.5	-980.0	275.5	612.9	-13.1
14	162.00	13.4	-23.7	3499	3417	3.8	-6.9	1924.4	-963.6	265.5	593.3	-14.0
15	174.00	13.3	-23.7	3444	3379	4.4	-7.7	1911.1	-939.3	253.3	570.0	-14.9
16	186.00	18.4	-29.9	4044	3740	4.6	-7.7	1896.6	-915.1	242.2	547.7	-15.8
17	200.00	41.9	-43.5	5824	5781	7.7	-7.7	1877.8	-893.3	229.9	520.0	-16.7
18	224.00	21.1	-9.8	2233	1668	9.5	-5.5	1833.6	-800.9	209.9	476.6	-17.6
19	234.00	22.6	-13.0	2688	2002	10.0	-6.6	1815.6	-783.3	200.0	457.7	-18.5
20	246.00	22.6	-14.5	2688	2002	10.4	-7.7	1776.0	-766.6	190.0	436.6	-19.4
21	258.00	22.6	-16.0	2688	2002	10.9	-8.0	1760.0	-750.0	181.1	415.5	-20.3
22	270.00	22.6	-17.5	2688	2002	11.4	-8.7	1731.1	-733.3	171.1	394.4	-21.2
23	282.00	22.6	-19.0	2688	2002	11.9	-9.5	1700.0	-717.1	162.2	373.3	-22.1
24	294.00	22.6	-20.5	2688	2002	12.4	-10.2	1666.6	-700.0	153.3	353.3	-23.0
25	306.00	22.6	-21.1	2688	2002	13.2	-10.5	1635.5	-683.3	144.4	333.3	-23.9
26	318.00	22.6	-21.6	2688	2002	14.1	-10.8	1599.9	-666.6	135.4	314.4	-24.8
27	330.00	40.0	-22.2	2688	2002	15.0	-11.1	1562.2	-650.0	127.7	295.5	-25.7
28	342.00	42.2	-22.2	2688	2002	15.9	-11.1	1521.1	-633.3	118.8	276.6	-26.6
29	354.00	44.4	-23.3	2688	2002	16.7	-11.1	1479.9	-616.6	111.1	258.8	-27.5
30	366.00	47.7	-23.4	2688	2002	17.6	-11.1	1434.4	-600.0	103.3	241.1	-28.4
31	378.00	48.6	-23.4	2688	2002	18.1	-11.1	1388.7	-583.3	96.6	224.4	-29.3
32	390.00	49.9	-23.0	2688	2002	18.4	-11.1	1333.8	-566.6	89.9	207.7	-30.2
33	402.00	50.8	-22.5	2688	2002	18.7	-11.1	1288.9	-550.0	82.2	192.2	-31.1
34	414.00	50.0	-22.0	2688	2002	18.9	-11.1	1233.9	-533.3	75.5	176.6	-32.0
35	426.00	51.1	-21.1	2688	2002	19.2	-10.8	1188.8	-516.6	69.3	162.2	-32.9
36	438.00	51.6	-21.1	2688	2002	19.5	-10.8	1133.6	-500.0	63.3	148.8	-33.8
37	450.00	52.6	-21.0	2688	2002	19.9	-10.0	1088.8	-483.3	57.7	135.5	-34.7
38	462.00	53.5	-21.1	2688	2002	19.9	-10.0	1033.6	-466.6	52.2	122.2	-35.6
39	474.00	53.5	-21.1	2688	2002	19.9	-10.0	979.9	-450.0	47.7	110.0	-36.5
40	486.00	53.3	-21.1	2688	2002	19.5	-10.0	926.6	-433.3	44.4	98.8	-37.4
41	498.00	53.3	-21.1	2688	2002	19.5	-10.0	877.4	-416.6	42.2	88.8	-38.3
42	522.00	22.1	-22.2	2688	2002	19.4	-11.3	827.7	-400.0	40.0	80.0	-39.2
43	534.00	22.0	-22.2	2688	2002	19.4	-11.3	777.0	-383.3	38.3	72.2	-40.1
44	546.00	22.0	-22.2	2688	2002	19.4	-11.3	727.0	-366.6	36.6	64.4	-41.0
45	558.00	22.0	-22.2	2688	2002	19.4	-11.3	677.0	-350.0	35.0	56.6	-41.9
46	570.00	22.0	-22.2	2688	2002	19.4	-11.3	627.0	-333.3	33.3	48.8	-42.8
47	582.00	22.0	-22.2	2688	2002	19.4	-11.3	577.0	-316.6	31.6	41.1	-43.7
48	594.00	22.0	-22.2	2688	2002	19.4	-11.3	527.0	-300.0	30.0	33.3	-44.6
49	606.00	22.0	-22.2	2688	2002	19.4	-11.3	477.0	-283.3	28.3	25.5	-45.5
50	618.00	22.0	-22.2	2688	2002	19.4	-11.3	427.0	-266.6	26.6	17.7	-46.4
51	630.00	22.0	-22.2	2688	2002	19.4	-11.3	377.0	-250.0	25.0	10.0	-47.3
52	644.00	22.0	-22.2	2688	2002	19.4	-11.3	327.0	-233.3	23.3	2.2	-48.2
53	654.00	22.0	-22.2	2688	2002	19.4	-11.3	277.0	-216.6	21.6	4.4	-49.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
WIND DIRECTION 250		CONFIGURATION A				U.S. STEEL GRANT STREET BUILDING				GUST FACTOR 1.32		
						REFERENCE PRESSURE 23.0 PSF						
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	83.7	-38.1	5461	3970	15.3	-9.6	123.2	-51.9	1.0	2.6	-1.7
ROOF	692.80	39.5	-13.8	3280	2000	12.0	-6.9	39.5	-13.8	.2	.5	-.6



TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 260

CONFIGURATION A

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
5	111.0	-1.3	-11.6	2227	2951	-1.8		19	-109	440	846	-1.7
4	105.0	-1.3	-10.8	4084	5231	-1.5		18	-108	428	827	-1.7
3	99.0	-1.3	-10.0	2600	3089	-1.4		17	-107	407	791	-1.8
2	93.0	-1.3	-9.3	2666	3089	-1.4		16	-106	394	770	-1.8
1	87.0	-1.3	-8.6	3096	3356	-1.1		15	-105	382	748	-1.8
	81.0	-1.3	-7.9	3450	3420	-1.0		14	-104	369	726	-1.8
	75.0	-1.3	-7.2	3450	3420	-1.0		13	-103	357	704	-1.8
	69.0	-1.3	-6.6	3450	3420	-1.0		12	-102	344	682	-1.8
	63.0	-1.3	-6.0	3450	3420	-1.0		11	-101	332	661	-1.8
	57.0	-1.3	-5.4	3450	3420	-1.0		10	-100	320	639	-1.8
	51.0	-1.3	-4.8	3450	3420	-1.0		9	-99	308	617	-1.8
	45.0	-1.3	-4.2	3450	3420	-1.0		8	-98	296	596	-1.8
	39.0	-1.3	-3.6	3450	3420	-1.0		7	-97	284	571	-1.8
	33.0	-1.3	-3.0	3450	3420	-1.0		6	-96	272	550	-1.8
	27.0	-1.3	-2.4	3450	3420	-1.0		5	-95	260	529	-1.8
	21.0	-1.3	-1.8	3450	3420	-1.0		4	-94	248	508	-1.8
	15.0	-1.3	-1.2	3450	3420	-1.0		3	-93	236	487	-1.8
	9.0	-1.3	-0.6	3450	3420	-1.0		2	-92	224	466	-1.8
	3.0	-1.3	-0.0	3450	3420	-1.0		1	-91	212	445	-1.8
	0	-1.3	0.0	3450	3420	-1.0		0	-90	200	424	-1.8
		-1.3	0.0	3450	3420	-1.0			-89	188	403	-1.8
		-1.3	0.0	3450	3420	-1.0			-88	176	382	-1.8
		-1.3	0.0	3450	3420	-1.0			-87	164	361	-1.8
		-1.3	0.0	3450	3420	-1.0			-86	152	340	-1.8
		-1.3	0.0	3450	3420	-1.0			-85	140	319	-1.8
		-1.3	0.0	3450	3420	-1.0			-84	128	298	-1.8
		-1.3	0.0	3450	3420	-1.0			-83	116	277	-1.8
		-1.3	0.0	3450	3420	-1.0			-82	104	256	-1.8
		-1.3	0.0	3450	3420	-1.0			-81	92	235	-1.8
		-1.3	0.0	3450	3420	-1.0			-80	80	214	-1.8
		-1.3	0.0	3450	3420	-1.0			-79	68	193	-1.8
		-1.3	0.0	3450	3420	-1.0			-78	56	172	-1.8
		-1.3	0.0	3450	3420	-1.0			-77	44	151	-1.8
		-1.3	0.0	3450	3420	-1.0			-76	32	130	-1.8
		-1.3	0.0	3450	3420	-1.0			-75	20	109	-1.8
		-1.3	0.0	3450	3420	-1.0			-74	8	88	-1.8
		-1.3	0.0	3450	3420	-1.0			-73		67	-1.8
		-1.3	0.0	3450	3420	-1.0			-72		46	-1.8
		-1.3	0.0	3450	3420	-1.0			-71		25	-1.8
		-1.3	0.0	3450	3420	-1.0			-70		4	-1.8
		-1.3	0.0	3450	3420	-1.0			-69			-1.8
		-1.3	0.0	3450	3420	-1.0			-68			-1.8
		-1.3	0.0	3450	3420	-1.0			-67			-1.8
		-1.3	0.0	3450	3420	-1.0			-66			-1.8
		-1.3	0.0	3450	3420	-1.0			-65			-1.8
		-1.3	0.0	3450	3420	-1.0			-64			-1.8
		-1.3	0.0	3450	3420	-1.0			-63			-1.8
		-1.3	0.0	3450	3420	-1.0			-62			-1.8
		-1.3	0.0	3450	3420	-1.0			-61			-1.8
		-1.3	0.0	3450	3420	-1.0			-60			-1.8
		-1.3	0.0	3450	3420	-1.0			-59			-1.8
		-1.3	0.0	3450	3420	-1.0			-58			-1.8
		-1.3	0.0	3450	3420	-1.0			-57			-1.8
		-1.3	0.0	3450	3420	-1.0			-56			-1.8
		-1.3	0.0	3450	3420	-1.0			-55			-1.8
		-1.3	0.0	3450	3420	-1.0			-54			-1.8
		-1.3	0.0	3450	3420	-1.0			-53			-1.8
		-1.3	0.0	3450	3420	-1.0			-52			-1.8
		-1.3	0.0	3450	3420	-1.0			-51			-1.8
		-1.3	0.0	3450	3420	-1.0			-50			-1.8
		-1.3	0.0	3450	3420	-1.0			-49			-1.8
		-1.3	0.0	3450	3420	-1.0			-48			-1.8
		-1.3	0.0	3450	3420	-1.0			-47			-1.8
		-1.3	0.0	3450	3420	-1.0			-46			-1.8
		-1.3	0.0	3450	3420	-1.0			-45			-1.8
		-1.3	0.0	3450	3420	-1.0			-44			-1.8
		-1.3	0.0	3450	3420	-1.0			-43			-1.8
		-1.3	0.0	3450	3420	-1.0			-42			-1.8
		-1.3	0.0	3450	3420	-1.0			-41			-1.8
		-1.3	0.0	3450	3420	-1.0			-40			-1.8
		-1.3	0.0	3450	3420	-1.0			-39			-1.8
		-1.3	0.0	3450	3420	-1.0			-38			-1.8
		-1.3	0.0	3450	3420	-1.0			-37			-1.8
		-1.3	0.0	3450	3420	-1.0			-36			-1.8
		-1.3	0.0	3450	3420	-1.0			-35			-1.8
		-1.3	0.0	3450	3420	-1.0			-34			-1.8
		-1.3	0.0	3450	3420	-1.0			-33			-1.8
		-1.3	0.0	3450	3420	-1.0			-32			-1.8
		-1.3	0.0	3450	3420	-1.0			-31			-1.8
		-1.3	0.0	3450	3420	-1.0			-30			-1.8
		-1.3	0.0	3450	3420	-1.0			-29			-1.8
		-1.3	0.0	3450	3420	-1.0			-28			-1.8
		-1.3	0.0	3450	3420	-1.0			-27			-1.8
		-1.3	0.0	3450	3420	-1.0			-26			-1.8
		-1.3	0.0	3450	3420	-1.0			-25			-1.8
		-1.3	0.0	3450	3420	-1.0			-24			-1.8
		-1.3	0.0	3450	3420	-1.0			-23			-1.8
		-1.3	0.0	3450	3420	-1.0			-22			-1.8
		-1.3	0.0	3450	3420	-1.0			-21			-1.8
		-1.3	0.0	3450	3420	-1.0			-20			-1.8
		-1.3	0.0	3450	3420	-1.0			-19			-1.8
		-1.3	0.0	3450	3420	-1.0			-18			-1.8
		-1.3	0.0	3450	3420	-1.0			-17			-1.8
		-1.3	0.0	3450	3420	-1.0			-16			-1.8
		-1.3	0.0	3450	3420	-1.0			-15			-1.8
		-1.3	0.0	3450	3420	-1.0			-14			-1.8
		-1.3	0.0	3450	3420	-1.0			-13			-1.8
		-1.3	0.0	3450	3420	-1.0			-12			-1.8
		-1.3	0.0	3450	3420	-1.0			-11			-1.8
		-1.3	0.0	3450	3420	-1.0			-10			-1.8
		-1.3	0.0	3450	3420	-1.0			-9			-1.8
		-1.3	0.0	3450	3420	-1.0			-8			-1.8
		-1.3	0.0	3450	3420	-1.0			-7			-1.8
		-1.3	0.0	3450	3420	-1.0			-6			-1.8
		-1.3	0.0	3450	3420	-1.0			-5			-1.8
		-1.3	0.0	3450	3420	-1.0			-4			-1.8
		-1.3	0.0	3450	3420	-1.0			-3			-1.8
		-1.3	0.0	3450	3420	-1.0			-2			-1.8
		-1.3	0.0	3450	3420	-1.0			-1			-1.8
		-1.3	0.0	3450	3420	-1.0			0			-1.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 260

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	79.2	-40.4	5461	3970	14.5	-10.2	120.1	-54.3	1.1	2.6	-1.6
ROOF	692.80	40.8	-13.9	3280	2000	12.4	-6.9	40.8	-13.9	.2	.5	-.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS:  
WIND DIRECTION 270

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0	0.00	-4.7	2227	2951	-2.1	-2.8	13773	-9.4	430.7	639.1	-
2	11	11.00	-7.8	4084	5231	-1.9	-2.3	13788	-9.8	419.8	624.0	-
3	22	22.00	-11.6	2660	3389	-1.8	-1.5	13866	-9.7	400.6	597.0	-
4	33	33.00	-14.6	2660	3389	-1.8	-1.5	13900	-9.7	388.9	580.4	-
5	44	44.00	-15.5	2660	3389	-1.8	-1.5	13955	-9.6	380.0	563.7	-
6	55	55.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
7	66	66.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
8	77	77.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
9	88	88.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
10	99	99.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
11	110	110.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
12	121	121.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
13	132	132.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
14	143	143.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
15	154	154.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
16	165	165.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
17	176	176.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
18	187	187.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
19	198	198.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
20	209	209.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
21	220	220.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
22	231	231.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
23	242	242.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
24	253	253.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
25	264	264.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
26	275	275.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
27	286	286.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
28	297	297.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
29	308	308.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
30	319	319.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
31	330	330.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
32	341	341.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
33	352	352.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
34	363	363.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
35	374	374.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
36	385	385.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
37	396	396.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
38	407	407.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
39	418	418.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
40	429	429.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
41	440	440.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
42	451	451.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
43	462	462.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
44	473	473.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
45	484	484.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
46	495	495.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
47	506	506.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
48	517	517.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
49	528	528.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
50	539	539.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
51	550	550.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
52	561	561.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-
53	572	572.00	-16.0	3450	4200	-1.9	-1.8	13990	-9.6	377.7	546.9	-

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 270

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	65.2	-46.6	5461	3970	11.9	-11.7	103.2	-63.0	1.2	2.3	-1.5
ROOF	692.80	38.0	-16.5	3280	2000	11.6	-8.2	38.0	-16.5	.2	.5	-1.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 280

CONFIGURATION A

U. S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-4.5	6.7	2227	2951	-2.0	-2.3	79.5	-10.7	4.4	3.6	-1.1
2	4.4	0.0	0.0	4084	5231	0.0	0.0	79.5	-9.9	4.4	3.6	-1.1
3	8.8	0.0	0.0	2600	3089	0.0	0.0	80.7	-9.9	4.4	3.6	-1.1
4	13.2	0.0	0.0	1666	1944	0.0	0.0	81.8	-9.9	4.4	3.6	-1.1
5	17.6	0.0	0.0	1006	1256	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
6	22.0	0.0	0.0	666	842	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
7	26.4	0.0	0.0	450	566	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
8	30.8	0.0	0.0	333	420	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
9	35.2	0.0	0.0	222	300	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
10	39.6	0.0	0.0	150	200	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
11	44.0	0.0	0.0	100	133	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
12	48.4	0.0	0.0	66	92	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
13	52.8	0.0	0.0	44	61	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
14	57.2	0.0	0.0	29	41	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
15	61.6	0.0	0.0	19	27	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
16	66.0	0.0	0.0	13	18	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
17	70.4	0.0	0.0	8	12	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
18	74.8	0.0	0.0	5	8	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
19	79.2	0.0	0.0	3	5	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
20	83.6	0.0	0.0	2	3	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
21	88.0	0.0	0.0	1	2	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
22	92.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
23	96.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
24	101.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
25	105.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
26	110.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
27	114.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
28	118.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
29	123.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
30	127.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
31	132.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
32	136.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
33	140.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
34	145.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
35	149.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
36	154.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
37	158.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
38	162.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
39	167.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
40	171.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
41	176.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
42	180.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
43	184.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
44	189.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
45	193.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
46	198.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
47	202.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
48	206.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
49	211.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
50	215.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
51	220.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
52	224.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
53	228.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
54	233.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
55	237.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
56	242.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
57	246.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
58	250.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
59	255.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
60	259.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
61	264.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
62	268.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
63	272.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
64	277.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
65	281.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
66	286.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
67	290.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
68	294.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
69	299.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
70	303.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
71	308.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
72	312.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
73	316.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
74	321.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
75	325.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
76	330.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
77	334.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
78	338.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
79	343.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
80	347.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
81	352.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
82	356.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
83	360.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
84	365.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
85	369.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
86	374.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
87	378.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
88	382.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
89	387.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
90	391.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
91	396.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
92	400.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
93	404.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
94	409.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
95	413.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
96	418.0	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
97	422.4	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
98	426.8	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
99	431.2	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1
100	435.6	0.0	0.0	1	1	0.0	0.0	82.1	-9.9	4.4	3.6	-1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 280

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	32.4	-54.3	5461	3970	5.9	-13.7	57.2	-71.2	1.4	1.4	- .9
ROOF	692.80	24.8	-16.9	3280	2000	7.6	-8.4	24.8	-16.9	.2	.3	- .4

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 290

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
5	66.0	1.1	1.1	2227	2951	-1.4	-2.0	177.9	-10.0	47.0	73.7	22.0
4	64.4	1.1	1.1	4084	4231	-1.3	-2.0	177.9	-10.0	45.8	71.7	22.0
3	62.8	1.1	1.1	2227	2951	-1.4	-2.0	188.0	-11.0	43.8	68.8	22.0
2	61.2	1.1	1.1	4084	4231	-1.3	-2.0	188.0	-11.0	42.6	66.0	22.0
1	59.6	1.1	1.1	2227	2951	-1.4	-2.0	199.1	-11.0	41.4	63.7	22.0
MECH	58.0	1.1	1.1	4084	4231	-1.3	-2.0	199.1	-11.0	40.2	61.4	22.0
5	66.0	1.1	1.1	2227	2951	-1.4	-2.0	188.0	-11.0	39.0	59.1	22.0
4	64.4	1.1	1.1	4084	4231	-1.3	-2.0	188.0	-11.0	37.8	56.8	22.0
3	62.8	1.1	1.1	2227	2951	-1.4	-2.0	199.1	-11.0	36.6	54.5	22.0
2	61.2	1.1	1.1	4084	4231	-1.3	-2.0	199.1	-11.0	35.4	52.2	22.0
1	59.6	1.1	1.1	2227	2951	-1.4	-2.0	188.0	-11.0	34.2	50.0	22.0
MECH	58.0	1.1	1.1	4084	4231	-1.3	-2.0	188.0	-11.0	33.0	47.7	22.0
5	66.0	1.1	1.1	2227	2951	-1.4	-2.0	177.9	-10.0	31.8	45.5	22.0
4	64.4	1.1	1.1	4084	4231	-1.3	-2.0	177.9	-10.0	30.6	43.2	22.0
3	62.8	1.1	1.1	2227	2951	-1.4	-2.0	188.0	-11.0	29.4	41.0	22.0
2	61.2	1.1	1.1	4084	4231	-1.3	-2.0	188.0	-11.0	28.2	38.7	22.0
1	59.6	1.1	1.1	2227	2951	-1.4	-2.0	199.1	-11.0	27.0	36.5	22.0
MECH	58.0	1.1	1.1	4084	4231	-1.3	-2.0	199.1	-11.0	25.8	34.2	22.0
5	66.0	1.1	1.1	2227	2951	-1.4	-2.0	177.9	-10.0	24.6	32.0	22.0
4	64.4	1.1	1.1	4084	4231	-1.3	-2.0	177.9	-10.0	23.4	29.7	22.0
3	62.8	1.1	1.1	2227	2951	-1.4	-2.0	188.0	-11.0	22.2	27.5	22.0
2	61.2	1.1	1.1	4084	4231	-1.3	-2.0	188.0	-11.0	21.0	25.2	22.0
1	59.6	1.1	1.1	2227	2951	-1.4	-2.0	199.1	-11.0	19.8	23.0	22.0
MECH	58.0	1.1	1.1	4084	4231	-1.3	-2.0	199.1	-11.0	18.6	20.7	22.0
5	66.0	1.1	1.1	2227	2951	-1.4	-2.0	177.9	-10.0	17.4	18.5	22.0
4	64.4	1.1	1.1	4084	4231	-1.3	-2.0	177.9	-10.0	16.2	16.2	22.0
3	62.8	1.1	1.1	2227	2951	-1.4	-2.0	188.0	-11.0	15.0	14.0	22.0
2	61.2	1.1	1.1	4084	4231	-1.3	-2.0	188.0	-11.0	13.8	11.7	22.0
1	59.6	1.1	1.1	2227	2951	-1.4	-2.0	199.1	-11.0	12.6	9.5	22.0
MECH	58.0	1.1	1.1	4084	4231	-1.3	-2.0	199.1	-11.0	11.4	7.2	22.0
5	66.0	1.1	1.1	2227	2951	-1.4	-2.0	177.9	-10.0	10.2	5.0	22.0
4	64.4	1.1	1.1	4084	4231	-1.3	-2.0	177.9	-10.0	9.0	2.7	22.0
3	62.8	1.1	1.1	2227	2951	-1.4	-2.0	188.0	-11.0	7.8	0.5	22.0
2	61.2	1.1	1.1	4084	4231	-1.3	-2.0	188.0	-11.0	6.6	-1.8	22.0
1	59.6	1.1	1.1	2227	2951	-1.4	-2.0	199.1	-11.0	5.4	-4.0	22.0
MECH	58.0	1.1	1.1	4084	4231	-1.3	-2.0	199.1	-11.0	4.2	-6.3	22.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :															
WIND DIRECTION 290		CONFIGURATION A				U.S. STEEL GRANT STREET BUILDING				REFERENCE PRESSURE 23.0 PSF			GUST FACTOR 1.32		
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT	Z-MOMENT			
										1000-FT-KIPS					
MECH	666.50	12.1	-56.1	5461	3970	2.2	-14.1	21.0	-71.1	1.3	.5	-.5			
ROOF	692.80	8.9	-15.0	3280	2000	2.7	-7.5	8.9	-15.0	.2	.1	-.1			





U. S. STEEL GRANT STREET BUILDING												
TABLE 7. SHEAR AND MOMENT DIAGRAM :		CONFIGURATION A						REFERENCE PRESSURE 23.0 PSF			GUST FACTOR 1.32	
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	1.9	-57.4	5461	3970	.3	-14.5	-4.3	-76.0	1.5	-.2	-.1
ROOF	692.80	-6.2	-18.6	3280	2000	-1.9	-9.3	-6.2	-18.6	.2	-.1	.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS  
WIND DIRECTION 310

U. S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.0	4.4	4.4	22	22	-2.0	-1.5	0.0	0.0	50	-20	100
2	10.0	4.4	4.4	22	22	-2.0	-1.5	4.4	4.4	49	-20	100
3	20.0	4.4	4.4	22	22	-2.0	-1.5	8.8	8.8	48	-20	100
4	30.0	4.4	4.4	22	22	-2.0	-1.5	13.2	13.2	47	-20	100
5	40.0	4.4	4.4	22	22	-2.0	-1.5	17.6	17.6	46	-20	100
6	50.0	4.4	4.4	22	22	-2.0	-1.5	22.0	22.0	45	-20	100
7	60.0	4.4	4.4	22	22	-2.0	-1.5	26.4	26.4	44	-20	100
8	70.0	4.4	4.4	22	22	-2.0	-1.5	30.8	30.8	43	-20	100
9	80.0	4.4	4.4	22	22	-2.0	-1.5	35.2	35.2	42	-20	100
10	90.0	4.4	4.4	22	22	-2.0	-1.5	39.6	39.6	41	-20	100
11	100.0	4.4	4.4	22	22	-2.0	-1.5	44.0	44.0	40	-20	100
12	110.0	4.4	4.4	22	22	-2.0	-1.5	48.4	48.4	39	-20	100
13	120.0	4.4	4.4	22	22	-2.0	-1.5	52.8	52.8	38	-20	100
14	130.0	4.4	4.4	22	22	-2.0	-1.5	57.2	57.2	37	-20	100
15	140.0	4.4	4.4	22	22	-2.0	-1.5	61.6	61.6	36	-20	100
16	150.0	4.4	4.4	22	22	-2.0	-1.5	66.0	66.0	35	-20	100
17	160.0	4.4	4.4	22	22	-2.0	-1.5	70.4	70.4	34	-20	100
18	170.0	4.4	4.4	22	22	-2.0	-1.5	74.8	74.8	33	-20	100
19	180.0	4.4	4.4	22	22	-2.0	-1.5	79.2	79.2	32	-20	100
20	190.0	4.4	4.4	22	22	-2.0	-1.5	83.6	83.6	31	-20	100
21	200.0	4.4	4.4	22	22	-2.0	-1.5	88.0	88.0	30	-20	100
22	210.0	4.4	4.4	22	22	-2.0	-1.5	92.4	92.4	29	-20	100
23	220.0	4.4	4.4	22	22	-2.0	-1.5	96.8	96.8	28	-20	100
24	230.0	4.4	4.4	22	22	-2.0	-1.5	101.2	101.2	27	-20	100
25	240.0	4.4	4.4	22	22	-2.0	-1.5	105.6	105.6	26	-20	100
26	250.0	4.4	4.4	22	22	-2.0	-1.5	110.0	110.0	25	-20	100
27	260.0	4.4	4.4	22	22	-2.0	-1.5	114.4	114.4	24	-20	100
28	270.0	4.4	4.4	22	22	-2.0	-1.5	118.8	118.8	23	-20	100
29	280.0	4.4	4.4	22	22	-2.0	-1.5	123.2	123.2	22	-20	100
30	290.0	4.4	4.4	22	22	-2.0	-1.5	127.6	127.6	21	-20	100
31	300.0	4.4	4.4	22	22	-2.0	-1.5	132.0	132.0	20	-20	100
32	310.0	4.4	4.4	22	22	-2.0	-1.5	136.4	136.4	19	-20	100
33	320.0	4.4	4.4	22	22	-2.0	-1.5	140.8	140.8	18	-20	100
34	330.0	4.4	4.4	22	22	-2.0	-1.5	145.2	145.2	17	-20	100
35	340.0	4.4	4.4	22	22	-2.0	-1.5	149.6	149.6	16	-20	100
36	350.0	4.4	4.4	22	22	-2.0	-1.5	154.0	154.0	15	-20	100
37	360.0	4.4	4.4	22	22	-2.0	-1.5	158.4	158.4	14	-20	100
38	370.0	4.4	4.4	22	22	-2.0	-1.5	162.8	162.8	13	-20	100
39	380.0	4.4	4.4	22	22	-2.0	-1.5	167.2	167.2	12	-20	100
40	390.0	4.4	4.4	22	22	-2.0	-1.5	171.6	171.6	11	-20	100
41	400.0	4.4	4.4	22	22	-2.0	-1.5	176.0	176.0	10	-20	100
42	410.0	4.4	4.4	22	22	-2.0	-1.5	180.4	180.4	9	-20	100
43	420.0	4.4	4.4	22	22	-2.0	-1.5	184.8	184.8	8	-20	100
44	430.0	4.4	4.4	22	22	-2.0	-1.5	189.2	189.2	7	-20	100
45	440.0	4.4	4.4	22	22	-2.0	-1.5	193.6	193.6	6	-20	100
46	450.0	4.4	4.4	22	22	-2.0	-1.5	198.0	198.0	5	-20	100
47	460.0	4.4	4.4	22	22	-2.0	-1.5	202.4	202.4	4	-20	100
48	470.0	4.4	4.4	22	22	-2.0	-1.5	206.8	206.8	3	-20	100
49	480.0	4.4	4.4	22	22	-2.0	-1.5	211.2	211.2	2	-20	100
50	490.0	4.4	4.4	22	22	-2.0	-1.5	215.6	215.6	1	-20	100
51	500.0	4.4	4.4	22	22	-2.0	-1.5	220.0	220.0	0	-20	100

U.S. STEEL GRANT STREET BUILDING												
TABLE 7. SHEAR AND MOMENT DIAGRAM :		CONFIGURATION A							REFERENCE PRESSURE 23.0 PSF		GUST FACTOR 1.32	
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-8.8	-57.0	5461	3970	-1.6	-14.4	-25.5	-76.7	1.5	-.8	.2
ROOF	692.80	-16.8	-19.6	3280	2000	-5.1	-9.8	-16.8	-19.6	.2	-.2	.6



TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
WIND DIRECTION 320		CONFIGURATION A				U.S. STEEL GRANT STREET BUILDING				GUST FACTOR 1.32		
						REFERENCE PRESSURE 23.0 PSF						
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-49.3	-50.7	5461	3970	-9.0	-12.8	-77.6	-71.9	1.5	-1.7	.6
ROOF	692.80	-28.3	-21.2	3280	2000	-8.6	-10.6	-28.3	-21.2	.3	-.3	.8



TABLE 7. SHEAR AND MOMENT DIAGRAMS :  
WIND DIRECTION 330

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	660.50	-71.4	-41.9	5461	3970	-13.1	-10.6	-111.6	-63.5	1.4	-2.5	1.3
ROOF	692.80	-40.2	-21.6	3280	2000	-12.2	-10.8	-40.2	-21.6	.3	-.5	.8



TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 340

U. S. STEEL GRANT STREET BUILDING  
CONFIGURATION A REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
5	0.00	-8.4	4.8	2227	2951	-3.8	-1.6	-180.6	-92.7	41.3	-8.4	0.0
5	11.00	-13.9	4.8	4084	5231	-3.4	-1.1	-179.8	-92.3	40.0	-8.4	0.0
5	22.00	-18.8	4.8	2600	3089	-3.4	-1.2	-178.4	-91.4	39.3	-8.4	0.0
5	33.00	-22.7	4.4	3266	3089	-3.0	-1.1	-177.6	-91.1	37.7	-8.4	0.0
5	44.00	-25.0	6.6	3006	3356	-3.0	-1.1	-175.5	-90.7	35.9	-8.4	0.0
5	55.00	-26.6	6.6	3450	3420	-2.8	-1.1	-173.9	-90.2	34.2	-8.4	0.0
5	66.00	-28.4	6.6	3450	3420	-2.8	-1.6	-171.7	-89.6	32.3	-8.4	0.0
5	77.00	-29.0	6.6	3450	3420	-2.8	-1.4	-170.0	-89.0	30.6	-8.4	0.0
5	88.00	-29.9	6.6	3450	3420	-2.8	-1.4	-168.2	-88.5	28.9	-8.4	0.0
5	99.00	-30.3	6.6	3450	3420	-2.8	-1.4	-166.5	-88.0	27.2	-8.4	0.0
5	110.00	-30.6	6.6	3450	3420	-2.8	-1.4	-164.8	-87.5	25.5	-8.4	0.0
5	121.00	-30.6	6.6	3450	3420	-2.8	-1.4	-163.1	-87.1	23.8	-8.4	0.0
5	132.00	-30.6	6.6	3450	3420	-2.8	-1.4	-161.4	-86.9	22.1	-8.4	0.0
5	143.00	-30.6	6.6	3450	3420	-2.8	-1.4	-159.7	-86.6	20.4	-8.4	0.0
5	154.00	-30.6	6.6	3450	3420	-2.8	-1.4	-158.0	-86.6	18.7	-8.4	0.0
5	165.00	-30.6	6.6	3450	3420	-2.8	-1.4	-156.3	-86.6	17.0	-8.4	0.0
5	176.00	-30.6	6.6	3450	3420	-2.8	-1.4	-154.6	-86.6	15.3	-8.4	0.0
5	187.00	-30.6	6.6	3450	3420	-2.8	-1.4	-152.9	-86.6	13.6	-8.4	0.0
5	198.00	-30.6	6.6	3450	3420	-2.8	-1.4	-151.2	-86.6	11.9	-8.4	0.0
5	209.00	-30.6	6.6	3450	3420	-2.8	-1.4	-149.5	-86.6	10.2	-8.4	0.0
5	220.00	-30.6	6.6	3450	3420	-2.8	-1.4	-147.8	-86.6	8.5	-8.4	0.0
5	231.00	-30.6	6.6	3450	3420	-2.8	-1.4	-146.1	-86.6	6.8	-8.4	0.0
5	242.00	-30.6	6.6	3450	3420	-2.8	-1.4	-144.4	-86.6	5.1	-8.4	0.0
5	253.00	-30.6	6.6	3450	3420	-2.8	-1.4	-142.7	-86.6	3.4	-8.4	0.0
5	264.00	-30.6	6.6	3450	3420	-2.8	-1.4	-141.0	-86.6	1.7	-8.4	0.0
5	275.00	-30.6	6.6	3450	3420	-2.8	-1.4	-139.3	-86.6	0.0	-8.4	0.0
5	286.00	-30.6	6.6	3450	3420	-2.8	-1.4	-137.6	-86.6	0.0	-8.4	0.0
5	297.00	-30.6	6.6	3450	3420	-2.8	-1.4	-135.9	-86.6	0.0	-8.4	0.0
5	308.00	-30.6	6.6	3450	3420	-2.8	-1.4	-134.2	-86.6	0.0	-8.4	0.0
5	319.00	-30.6	6.6	3450	3420	-2.8	-1.4	-132.5	-86.6	0.0	-8.4	0.0
5	330.00	-30.6	6.6	3450	3420	-2.8	-1.4	-130.8	-86.6	0.0	-8.4	0.0
5	341.00	-30.6	6.6	3450	3420	-2.8	-1.4	-129.1	-86.6	0.0	-8.4	0.0
5	352.00	-30.6	6.6	3450	3420	-2.8	-1.4	-127.4	-86.6	0.0	-8.4	0.0
5	363.00	-30.6	6.6	3450	3420	-2.8	-1.4	-125.7	-86.6	0.0	-8.4	0.0
5	374.00	-30.6	6.6	3450	3420	-2.8	-1.4	-124.0	-86.6	0.0	-8.4	0.0
5	385.00	-30.6	6.6	3450	3420	-2.8	-1.4	-122.3	-86.6	0.0	-8.4	0.0
5	396.00	-30.6	6.6	3450	3420	-2.8	-1.4	-120.6	-86.6	0.0	-8.4	0.0
5	407.00	-30.6	6.6	3450	3420	-2.8	-1.4	-118.9	-86.6	0.0	-8.4	0.0
5	418.00	-30.6	6.6	3450	3420	-2.8	-1.4	-117.2	-86.6	0.0	-8.4	0.0
5	429.00	-30.6	6.6	3450	3420	-2.8	-1.4	-115.5	-86.6	0.0	-8.4	0.0
5	440.00	-30.6	6.6	3450	3420	-2.8	-1.4	-113.8	-86.6	0.0	-8.4	0.0
5	451.00	-30.6	6.6	3450	3420	-2.8	-1.4	-112.1	-86.6	0.0	-8.4	0.0
5	462.00	-30.6	6.6	3450	3420	-2.8	-1.4	-110.4	-86.6	0.0	-8.4	0.0
5	473.00	-30.6	6.6	3450	3420	-2.8	-1.4	-108.7	-86.6	0.0	-8.4	0.0
5	484.00	-30.6	6.6	3450	3420	-2.8	-1.4	-107.0	-86.6	0.0	-8.4	0.0
5	495.00	-30.6	6.6	3450	3420	-2.8	-1.4	-105.3	-86.6	0.0	-8.4	0.0
5	506.00	-30.6	6.6	3450	3420	-2.8	-1.4	-103.6	-86.6	0.0	-8.4	0.0
5	517.00	-30.6	6.6	3450	3420	-2.8	-1.4	-101.9	-86.6	0.0	-8.4	0.0
5	528.00	-30.6	6.6	3450	3420	-2.8	-1.4	-100.2	-86.6	0.0	-8.4	0.0
5	539.00	-30.6	6.6	3450	3420	-2.8	-1.4	-98.5	-86.6	0.0	-8.4	0.0
5	550.00	-30.6	6.6	3450	3420	-2.8	-1.4	-96.8	-86.6	0.0	-8.4	0.0
5	561.00	-30.6	6.6	3450	3420	-2.8	-1.4	-95.1	-86.6	0.0	-8.4	0.0
5	572.00	-30.6	6.6	3450	3420	-2.8	-1.4	-93.4	-86.6	0.0	-8.4	0.0
5	583.00	-30.6	6.6	3450	3420	-2.8	-1.4	-91.7	-86.6	0.0	-8.4	0.0
5	594.00	-30.6	6.6	3450	3420	-2.8	-1.4	-90.0	-86.6	0.0	-8.4	0.0
5	605.00	-30.6	6.6	3450	3420	-2.8	-1.4	-88.3	-86.6	0.0	-8.4	0.0
5	616.00	-30.6	6.6	3450	3420	-2.8	-1.4	-86.6	-86.6	0.0	-8.4	0.0
5	627.00	-30.6	6.6	3450	3420	-2.8	-1.4	-84.9	-86.6	0.0	-8.4	0.0
5	638.00	-30.6	6.6	3450	3420	-2.8	-1.4	-83.2	-86.6	0.0	-8.4	0.0
5	649.00	-30.6	6.6	3450	3420	-2.8	-1.4	-81.5	-86.6	0.0	-8.4	0.0
5	660.00	-30.6	6.6	3450	3420	-2.8	-1.4	-79.8	-86.6	0.0	-8.4	0.0
5	671.00	-30.6	6.6	3450	3420	-2.8	-1.4	-78.1	-86.6	0.0	-8.4	0.0
5	682.00	-30.6	6.6	3450	3420	-2.8	-1.4	-76.4	-86.6	0.0	-8.4	0.0
5	693.00	-30.6	6.6	3450	3420	-2.8	-1.4	-74.7	-86.6	0.0	-8.4	0.0
5	704.00	-30.6	6.6	3450	3420	-2.8	-1.4	-73.0	-86.6	0.0	-8.4	0.0
5	715.00	-30.6	6.6	3450	3420	-2.8	-1.4	-71.3	-86.6	0.0	-8.4	0.0
5	726.00	-30.6	6.6	3450	3420	-2.8	-1.4	-69.6	-86.6	0.0	-8.4	0.0
5	737.00	-30.6	6.6	3450	3420	-2.8	-1.4	-67.9	-86.6	0.0	-8.4	0.0
5	748.00	-30.6	6.6	3450	3420	-2.8	-1.4	-66.2	-86.6	0.0	-8.4	0.0
5	759.00	-30.6	6.6	3450	3420	-2.8	-1.4	-64.5	-86.6	0.0	-8.4	0.0
5	770.00	-30.6	6.6	3450	3420	-2.8	-1.4	-62.8	-86.6	0.0	-8.4	0.0
5	781.00	-30.6	6.6	3450	3420	-2.8	-1.4	-61.1	-86.6	0.0	-8.4	0.0
5	792.00	-30.6	6.6	3450	3420	-2.8	-1.4	-59.4	-86.6	0.0	-8.4	0.0
5	803.00	-30.6	6.6	3450	3420	-2.8	-1.4	-57.7	-86.6	0.0	-8.4	0.0
5	814.00	-30.6	6.6	3450	3420	-2.8	-1.4	-56.0	-86.6	0.0	-8.4	0.0
5	825.00	-30.6	6.6	3450	3420	-2.8	-1.4	-54.3	-86.6	0.0	-8.4	0.0
5	836.00	-30.6	6.6	3450	3420	-2.8	-1.4	-52.6	-86.6	0.0	-8.4	0.0
5	847.00	-30.6	6.6	3450	3420	-2.8	-1.4	-50.9	-86.6	0.0	-8.4	0.0
5	858.00	-30.6	6.6	3450	3420	-2.8	-1.4	-49.2	-86.6	0.0	-8.4	0.0
5	869.00	-30.6	6.6	3450	3420	-2.8	-1.4	-47.5	-86.6	0.0	-8.4	0.0
5	880.00	-30.6	6.6	3450	3420	-2.8	-1.4	-45.8	-86.6	0.0	-8.4	0.0
5	891.00	-30.6	6.6	3450	3420	-2.8	-1.4	-44.1	-86.6	0.0	-8.4	0.0
5	902.00	-30.6	6.6	3450	3420	-2.8	-1.4	-42.4	-86.6	0.0	-8.4	0.0
5	913.00	-30.6	6.6	3450	3420	-2.8	-1.4	-40.7	-86.6	0.0	-8.4	0.0
5	924.00	-30.6	6.6	3450	3420	-2.8	-1.4	-39.0	-86.6	0.0	-8.4	0.0
5	935.00	-30.6	6.6	3450	3420	-2.8	-1.4	-37.3	-86.6	0.0	-8.4	0.0
5	946.00	-30.6	6.6	3450	3420	-2.8	-1.4	-35.6	-86.6	0.0	-8.4	0.0
5	957.00	-30.6	6.6	3450	3420	-2.8	-1.4	-33.9	-86.6	0.0	-8.4	0.0
5	968.00	-30.6	6.6	3450	3420	-2.8	-1.4	-32.2	-86.6	0.0	-8.4	0.0
5	979.00	-30.6	6.6	3450	3420	-2.8	-1.4	-30.5	-86.6	0.0	-8.4	0.0
5	990.00	-30.6	6.6	3450	3420	-2.8	-1.4	-28.8	-86.6	0.0	-8.4	0.0
5	1001.00	-30.6	6.6	3450	3420	-2.8	-1.4	-27.1	-86.6	0.0	-8.4	0.0
5	1012.00	-30.6	6.6	3450	3420	-2.8	-1.4	-25.4	-86.6	0.0	-8.4	0.0
5	1023.00	-30.6	6.6	3450	3420	-2.8	-1.4	-23.7	-86.6	0.0	-8.4	0.0
5	1034.00	-30.6	6.6	3450	3420	-2.8	-1.4	-22.0	-86.6	0.0	-8.4	0.0
5	1045.00	-30.6	6.6	3450	3420	-2.8	-1.4	-20.3	-86.6	0.0	-8.4	0.0
5	1056.00	-30.6	6.6	3450	3420	-2.8	-1.4	-18.6	-86.6	0.0	-8.4	0.0
5	1067.00	-30.6	6.6	3450	3420	-2.8	-1.4	-16.9	-86.6	0.0	-8.4	0.0
5	1078.00	-30.6	6.6	3450	3420	-2.8	-1.4	-15.2	-86.6	0.0	-8.4	0.0
5	1089.00	-30.6	6.6	3450	3420	-2.8	-1.4	-13.5	-86.6	0.0	-8.4	0.0
5	1100.00	-30.6	6.6	3450	3420	-2.8	-1.4	-11.8	-86.6	0.0	-8.4	0.0
5	1111.00	-30.6	6.6	3450	3420	-2.8	-1.4	-10.1	-86.6	0.0	-8.4	0.0
5	1122.00	-30.6	6.6	3450	3420	-2.8	-1.4	-8.4	-86.6	0.0	-8.4	0.0
5	1133.00	-30.6	6.6	3450	3420	-2.8	-1.4	-6.7	-86.6	0.0	-	

TABLE 7. SHEAR AND MOMENT DIAGRAMS		U.S. STEEL GRANT STREET BUILDING								GUST FACTOR 1.32		
WIND DIRECTION 340		CONFIGURATION A				REFERENCE PRESSURE 23.0 PSF						
FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-90.1	-39.9	5461	3970	-16.5	-10.1	-134.7	-57.6	1.2	-2.9	1.5
ROOF	692.00	-44.6	-17.7	3280	2000	-13.6	-8.8	-44.6	-17.7	.2	-.5	.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 350

CONFIGURATION A

U.S. STEEL GRANT STREET BUILDING  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
53	65.5	-9.1	-1.6	2227	2951	-4.1	-1.6	-190.9	-89.8	3333	11.1	11.1
52	64.4	-15.3	-3.8	4084	5231	-3.8	-3.8	-190.0	-89.7	3333	11.1	11.1
51	63.3	-9.7	-3.1	2660	3089	-3.5	-3.1	-188.5	-89.3	3333	11.1	11.1
50	62.2	-8.0	-2.7	2666	3089	-3.1	-2.7	-187.5	-89.1	3333	11.1	11.1
49	61.1	-10.0	-3.4	3006	3356	-3.4	-3.4	-186.7	-88.9	3333	11.1	11.1
48	60.0	-10.0	-3.4	3450	4220	-3.4	-3.4	-185.7	-88.5	3333	11.1	11.1
47	58.9	-11.1	-3.8	3450	4220	-3.8	-3.8	-185.3	-88.0	3333	11.1	11.1
46	57.8	-12.2	-4.4	4450	5500	-4.4	-4.4	-185.1	-87.4	3333	11.1	11.1
45	56.7	-13.3	-4.9	4450	5500	-4.9	-4.9	-184.8	-86.8	3333	11.1	11.1
44	55.6	-14.4	-5.5	4450	5500	-5.5	-5.5	-184.4	-86.1	3333	11.1	11.1
43	54.5	-15.5	-6.1	4450	5500	-6.1	-6.1	-184.4	-85.4	3333	11.1	11.1
42	53.4	-16.6	-6.7	4450	5500	-6.7	-6.7	-184.4	-84.4	3333	11.1	11.1
41	52.3	-17.7	-7.3	4450	5500	-7.3	-7.3	-184.4	-83.3	3333	11.1	11.1
40	51.2	-18.8	-7.9	4450	5500	-7.9	-7.9	-184.4	-82.2	3333	11.1	11.1
39	50.1	-19.9	-8.5	4450	5500	-8.5	-8.5	-184.4	-81.1	3333	11.1	11.1
38	49.0	-21.0	-9.1	4450	5500	-9.1	-9.1	-184.4	-80.0	3333	11.1	11.1
37	47.9	-22.1	-9.7	4450	5500	-9.7	-9.7	-184.4	-78.9	3333	11.1	11.1
36	46.8	-23.2	-10.3	4450	5500	-10.3	-10.3	-184.4	-77.8	3333	11.1	11.1
35	45.7	-24.3	-10.9	4450	5500	-10.9	-10.9	-184.4	-76.7	3333	11.1	11.1
34	44.6	-25.4	-11.5	4450	5500	-11.5	-11.5	-184.4	-75.6	3333	11.1	11.1
33	43.5	-26.5	-12.1	4450	5500	-12.1	-12.1	-184.4	-74.5	3333	11.1	11.1
32	42.4	-27.6	-12.7	4450	5500	-12.7	-12.7	-184.4	-73.4	3333	11.1	11.1
31	41.3	-28.7	-13.3	4450	5500	-13.3	-13.3	-184.4	-72.3	3333	11.1	11.1
30	40.2	-29.8	-13.9	4450	5500	-13.9	-13.9	-184.4	-71.2	3333	11.1	11.1
29	39.1	-30.9	-14.5	4450	5500	-14.5	-14.5	-184.4	-70.1	3333	11.1	11.1
28	38.0	-32.0	-15.1	4450	5500	-15.1	-15.1	-184.4	-69.0	3333	11.1	11.1
27	36.9	-33.1	-15.7	4450	5500	-15.7	-15.7	-184.4	-67.9	3333	11.1	11.1
26	35.8	-34.2	-16.3	4450	5500	-16.3	-16.3	-184.4	-66.8	3333	11.1	11.1
25	34.7	-35.3	-16.9	4450	5500	-16.9	-16.9	-184.4	-65.7	3333	11.1	11.1
24	33.6	-36.4	-17.5	4450	5500	-17.5	-17.5	-184.4	-64.6	3333	11.1	11.1
23	32.5	-37.5	-18.1	4450	5500	-18.1	-18.1	-184.4	-63.5	3333	11.1	11.1
22	31.4	-38.6	-18.7	4450	5500	-18.7	-18.7	-184.4	-62.4	3333	11.1	11.1
21	30.3	-39.7	-19.3	4450	5500	-19.3	-19.3	-184.4	-61.3	3333	11.1	11.1
20	29.2	-40.8	-19.9	4450	5500	-19.9	-19.9	-184.4	-60.2	3333	11.1	11.1
19	28.1	-41.9	-20.5	4450	5500	-20.5	-20.5	-184.4	-59.1	3333	11.1	11.1
18	27.0	-43.0	-21.1	4450	5500	-21.1	-21.1	-184.4	-58.0	3333	11.1	11.1
17	25.9	-44.1	-21.7	4450	5500	-21.7	-21.7	-184.4	-56.9	3333	11.1	11.1
16	24.8	-45.2	-22.3	4450	5500	-22.3	-22.3	-184.4	-55.8	3333	11.1	11.1
15	23.7	-46.3	-22.9	4450	5500	-22.9	-22.9	-184.4	-54.7	3333	11.1	11.1
14	22.6	-47.4	-23.5	4450	5500	-23.5	-23.5	-184.4	-53.6	3333	11.1	11.1
13	21.5	-48.5	-24.1	4450	5500	-24.1	-24.1	-184.4	-52.5	3333	11.1	11.1
12	20.4	-49.6	-24.7	4450	5500	-24.7	-24.7	-184.4	-51.4	3333	11.1	11.1
11	19.3	-50.7	-25.3	4450	5500	-25.3	-25.3	-184.4	-50.3	3333	11.1	11.1
10	18.2	-51.8	-25.9	4450	5500	-25.9	-25.9	-184.4	-49.2	3333	11.1	11.1
9	17.1	-52.9	-26.5	4450	5500	-26.5	-26.5	-184.4	-48.1	3333	11.1	11.1
8	16.0	-54.0	-27.1	4450	5500	-27.1	-27.1	-184.4	-47.0	3333	11.1	11.1
7	14.9	-55.1	-27.7	4450	5500	-27.7	-27.7	-184.4	-45.9	3333	11.1	11.1
6	13.8	-56.2	-28.3	4450	5500	-28.3	-28.3	-184.4	-44.8	3333	11.1	11.1
5	12.7	-57.3	-28.9	4450	5500	-28.9	-28.9	-184.4	-43.7	3333	11.1	11.1
4	11.6	-58.4	-29.5	4450	5500	-29.5	-29.5	-184.4	-42.6	3333	11.1	11.1
3	10.5	-59.5	-30.1	4450	5500	-30.1	-30.1	-184.4	-41.5	3333	11.1	11.1
2	9.4	-60.6	-30.7	4450	5500	-30.7	-30.7	-184.4	-40.4	3333	11.1	11.1
1	8.3	-61.7	-31.3	4450	5500	-31.3	-31.3	-184.4	-39.3	3333	11.1	11.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;  
WIND DIRECTION 350

U.S. STEEL GRANT STREET BUILDING  
CONFIGURATION A  
REFERENCE PRESSURE 23.0 PSF

GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
MECH	666.50	-86.3	-35.0	5461	3970	-15.8	-8.8	-135.3	-57.5	1.3	-3.0	2.0
ROOF	692.80	-49.0	-22.5	3280	2000	-14.9	-11.2	-49.0	-22.5	.3	-.6	.8

TABLE 7. U.S. STEEL GRANT STREET BUILDING  
 PROJECT 7150 CONFIGURATION A  
 SCALE = 400 REF. PRESSURE = 23.0  
 GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 12.00  
 NUMBER OF SIDES = 19 NO. OF FLOORS = 55

SIDE	ANGLE	Z-AXIS
1	0.0	4.750
2	315.0	-1.900
3	45.0	2.800
4	90.0	2.250
5	45.0	-1.900
6	135.0	2.800
7	90.0	-1.450
8	45.0	-1.900
9	180.0	3.150
10	225.0	2.800
11	225.0	2.800
12	180.0	-1.800
13	135.0	-5.500
14	270.0	5.550
15	315.0	6.400
16	315.0	2.800
17	270.0	3.800
18	225.0	-1.900
19	180.0	3.150

FLOOR #	LABEL	HEIGHT-FT
1	1	11.00
2	2	19.50
3	3	12.00
4	4	12.00
5	5	12.00
6	6	12.00
7	7	12.00
8	8	12.00
9	9	12.00
10	10	12.00
11	11	12.00
12	12	14.00
13	13	10.00
14	14	12.00
15	15	12.00
16	16	14.30
17	MECH	24.00
18	18	10.00
19	19	12.00
20	20	12.00
21	21	12.00
22	22	12.00
23	23	12.00
24	24	12.00
25	25	12.00
26	26	12.00
27	27	12.00
28	28	12.00
29	29	12.00
30	30	12.00
31	31	12.00
32	32	12.00
33	33	12.00
34	34	12.00
35	35	12.00
36	36	12.00
37	37	12.00
38	38	12.00
39	39	12.00
40	40	12.00
41	MECH	24.00
42	42	12.00
43	43	12.00
44	44	12.00
45	45	12.00
46	46	12.00
47	47	12.00
48	48	12.00
49	49	12.00
50	50	12.00
51	51	13.70
52	52	10.00
53	53	12.00
54	MECH	26.30
55	ROOF	24.00

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:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1101	.226	.183	.631	-.900	0	1151	-.007	.138	.462	-.530	0	1235	.150	.189	.985	-.373
0	1102	-.073	.189	.804	-.849	0	1152	-.003	.150	.653	-.481	0	1236	.165	.199	1.056	-.680
0	1103	.118	.196	.922	-.723	0	1153	-.032	.160	.767	-.662	0	1237	.151	.202	1.021	-.495
0	1104	.231	.262	1.172	-.133	0	1154	-.045	.153	.584	-.587	0	1238	.018	.180	.814	-.684
0	1105	.247	.298	1.193	-.333	0	1155	-.064	.137	.436	-.536	0	1239	-.131	.167	.477	-.836
0	1106	.037	.223	1.831	-.761	0	1156	-.054	.133	.359	-.522	0	1240	.010	.172	1.062	-.567
0	1107	.175	.250	1.155	-.620	0	1157	-.078	.131	.345	-.534	0	1241	.010	.163	.759	-.631
0	1108	.169	.242	1.060	-.620	0	1158	-.080	.130	.365	-.536	0	1242	-.014	.157	-.759	-.628
0	1109	.251	.234	1.293	-.705	0	1159	-.100	.134	.362	-.533	0	1243	-.064	.138	.429	-.729
0	1110	.188	.280	1.564	-.119	0	1160	-.106	.130	.304	-.587	0	1244	-.137	.142	.453	-.698
0	1111	.202	.256	1.163	-.169	0	1161	-.027	.135	.605	-.339	0	1245	-.089	.132	.381	-.701
0	1112	.194	.251	1.119	-.190	0	1162	-.042	.137	.616	-.352	0	1246	-.076	.131	.453	-.542
0	1113	.168	.208	1.993	-.634	0	1163	-.078	.114	.442	-.533	0	1247	-.058	.132	.416	-.701
0	1114	.433	.309	1.974	-.050	0	1164	-.101	.128	.356	-.580	0	1248	-.070	.132	.336	-.674
0	1115	.329	.266	1.447	-.538	0	1165	-.082	.132	.408	-.660	0	1249	-.108	.137	.542	-.535
0	1116	.402	.285	1.547	-.636	0	1166	-.077	.129	.398	-.557	0	1250	-.084	.135	.345	-.593
0	1117	.270	.275	1.296	-.633	0	1201	-.031	.320	1.684	-.717	0	1251	-.080	.135	.333	-.521
0	1118	.241	.248	1.128	-.929	0	1202	.361	.315	.822	-.637	0	1252	-.074	.131	.369	-.588
0	1119	.268	.223	1.096	-.454	0	1203	.240	.282	.526	-.754	0	1253	-.071	.139	.437	-.540
0	1120	.362	.244	1.256	-.883	0	1204	.047	.227	.095	-.894	0	1254	-.076	.136	.403	-.562
0	1121	.366	.238	1.177	-.549	0	1205	.294	.263	.527	-.612	0	1255	-.038	.130	.408	-.423
0	1122	.391	.274	1.264	-.880	0	1206	.288	.257	.318	-.677	0	1256	-.038	.129	.396	-.418
0	1123	.366	.305	1.471	-.922	0	1207	.286	.241	1.102	-.689	0	1257	-.043	.119	.326	-.466
0	1124	.259	.280	1.371	-.922	0	1208	.188	.216	1.067	-.816	0	1258	-.042	.119	.402	-.506
0	1125	.275	.192	1.012	-.411	0	1209	.048	.194	.943	-.935	0	1259	-.055	.124	.377	-.484
0	1126	.375	.201	1.113	-.333	0	1210	.491	.273	1.370	-.532	0	1301	-.051	.199	.270	-.837
0	1127	.330	.205	1.200	-.466	0	1211	.530	.270	1.427	-.411	0	1302	-.034	.200	.349	-.276
0	1128	.394	.232	1.336	-.488	0	1212	.496	.251	1.379	-.606	0	1303	-.034	.173	.191	-.984
0	1129	.286	.294	1.635	-.322	0	1213	.304	.202	1.360	-.627	0	1304	-.022	.243	.332	-.384
0	1130	.294	.265	1.496	-.949	0	1214	.150	.184	.864	-.697	0	1305	-.288	.225	.429	-.181
0	1131	.199	.185	1.034	-.333	0	1215	.524	.291	1.631	-.390	0	1306	-.326	.228	.313	-.367
0	1132	.332	.206	1.128	-.797	0	1216	.533	.187	1.175	-.103	0	1307	-.310	.198	.412	-.194
0	1133	.280	.193	1.981	-.797	0	1217	.553	.254	1.469	-.289	0	1308	-.173	.203	.799	-.863
0	1134	.343	.217	1.068	-.533	0	1218	.315	.209	1.227	-.322	0	1309	-.092	.327	1.264	-.781
0	1135	.255	.259	1.333	-.533	0	1219	.147	.192	1.796	-.508	0	1310	-.173	.300	1.211	-.748
0	1136	.258	.229	1.101	-.602	0	1220	.574	.265	1.414	-.409	0	1311	-.224	.183	.472	-.809
0	1137	.114	.160	.834	-.422	0	1221	.619	.264	1.436	-.320	0	1312	-.246	.181	.420	-.876
0	1138	.216	.171	.996	-.584	0	1222	.358	.244	1.596	-.201	0	1313	-.307	.193	.442	-.186
0	1139	.172	.163	.891	-.333	0	1223	.556	.209	1.411	-.238	0	1314	-.291	.241	.912	-.1075
0	1140	.244	.177	.964	-.511	0	1224	.136	.184	.856	-.401	0	1315	-.029	.306	1.178	-.128
0	1141	.169	.231	1.576	-.666	0	1225	.463	.239	1.304	-.485	0	1316	-.266	.216	.694	-.905
0	1142	.158	.209	1.126	-.533	0	1226	.504	.241	1.393	-.338	0	1317	-.308	.232	.943	-.142
0	1143	.024	.161	.683	-.555	0	1227	.493	.226	1.282	-.332	0	1318	-.288	.289	.959	-.183
0	1144	.122	.168	.779	-.422	0	1228	.291	.189	1.057	-.298	0	1319	-.100	.327	1.031	-.049
0	1145	.096	.155	.685	-.432	0	1229	.505	.177	.864	-.557	0	1320	-.026	.269	.797	-.966
0	1146	.130	.168	.767	-.432	0	1230	.505	.224	1.542	-.573	0	1321	-.238	.208	.536	-.1078
0	1147	.048	.186	.821	-.617	0	1231	.346	.228	1.694	-.292	0	1322	-.318	.215	.578	-.128
0	1148	.051	.166	.864	-.472	0	1232	.322	.218	1.176	-.268	0	1323	-.291	.273	.869	-.1282
0	1149	.050	.148	.544	-.544	0	1233	.132	.189	1.028	-.414	0	1324	-.083	.299	.950	-.1507
0	1150	.025	.144	.509	-.533	0	1234	-.059	.168	.709	-.590	0	1325	-.004	.256	.868	-.1114

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1326	307	193	465	-1.098	0	1417	285	148	192	-0.844	0	1508	231	139	355	-0.821
0	1327	320	200	484	-1.182	0	1418	300	156	205	-1.341	0	1509	232	163	192	-1.027
0	1328	281	283	857	-1.438	0	1419	319	182	249	-1.507	0	1510	233	168	156	-1.007
0	1329	104	294	866	-1.278	0	1420	318	167	228	-1.108	0	1511	234	171	316	-1.083
0	1330	003	238	907	-1.963	0	1421	299	161	217	-1.969	0	1512	235	175	249	-1.287
0	1331	343	191	459	-1.122	0	1422	304	158	233	-0.872	0	1513	236	135	201	-1.779
0	1332	384	204	435	-1.165	0	1423	316	162	155	-0.903	0	1514	237	133	140	-0.690
0	1333	310	264	760	-1.300	0	1424	300	174	158	-1.135	0	1515	238	135	113	-0.736
0	1334	087	265	796	-1.141	0	1425	333	162	203	-1.355	0	1516	239	154	268	-0.883
0	1335	012	233	822	-1.879	0	1426	324	173	226	-1.312	0	1517	240	156	222	-0.977
0	1336	373	150	081	-1.022	0	1427	308	165	164	-0.978	0	1518	241	157	172	-1.017
0	1337	344	161	288	-1.094	0	1428	308	167	207	-1.019	0	1519	242	138	197	-0.924
0	1338	308	203	441	-1.136	0	1429	313	177	201	-1.258	0	1520	243	137	183	-0.899
0	1339	18	207	497	-1.990	0	1430	376	184	138	-1.148	0	1521	244	137	199	-0.696
0	1340	185	202	636	-1.959	0	1431	364	184	131	-1.113	0	1522	245	138	179	-0.778
0	1341	292	135	131	-1.911	0	1432	348	182	140	-1.159	0	1523	246	140	133	-0.751
0	1342	286	139	276	-1.966	0	1433	336	192	171	-1.388	0	1524	247	144	107	-0.975
0	1344	223	165	332	-1.976	0	1434	356	196	205	-1.400	0	1525	248	146	160	-0.761
0	1345	207	165	539	-1.852	0	1435	413	198	171	-1.746	0	1526	249	138	278	-0.879
0	1346	176	140	208	-1.999	0	1436	465	150	015	-1.174	0	1527	250	137	271	-0.829
0	1347	203	152	247	-1.005	0	1437	404	192	146	-1.276	0	1528	251	137	265	-0.773
0	1348	136	148	367	-1.866	0	1438	403	208	201	-1.754	0	1529	252	141	249	-0.829
0	1349	092	140	402	-1.750	0	1439	437	220	156	-1.799	0	1530	253	146	199	-1.101
0	1350	096	131	545	-1.634	0	1440	403	189	136	-1.506	0	1531	254	151	281	-0.936
0	1351	123	105	264	-1.551	0	1441	369	185	129	-1.598	0	1532	255	150	294	-0.948
0	1352	108	107	263	-1.513	0	1442	328	168	164	-1.313	0	1533	256	149	324	-0.911
0	1353	085	102	242	-1.508	0	1443	314	164	167	-1.288	0	1534	257	147	313	-0.860
0	1354	021	098	319	-1.395	0	1444	314	166	198	-1.255	0	1535	258	154	108	-1.009
0	1355	132	187	571	-1.696	0	1445	248	157	175	-1.124	0	1536	259	157	126	-1.061
0	1356	120	129	342	-1.856	0	1446	231	141	222	-1.902	0	1537	260	156	164	-0.940
0	1357	076	120	379	-1.604	0	1447	196	124	319	-1.639	0	1538	261	145	176	-0.877
0	1358	081	120	384	-1.626	0	1448	188	119	258	-1.635	0	1539	262	141	163	-0.879
0	1359	081	129	393	-1.478	0	1449	183	123	251	-1.696	0	1540	263	157	115	-0.928
0	1360	079	127	379	-1.472	0	1450	162	123	221	-1.729	0	1541	264	155	131	-0.932
0	1401	390	251	184	-1.724	0	1451	121	121	226	-1.682	0	1542	265	160	149	-1.000
0	1402	358	216	208	-1.683	0	1452	119	119	219	-1.694	0	1543	266	191	147	-1.541
0	1403	282	175	257	-1.099	0	1453	125	125	271	-1.633	0	1544	267	174	126	-1.059
0	1404	270	171	260	-1.980	0	1454	192	131	224	-1.705	0	1545	268	173	118	-1.078
0	1405	325	180	159	-1.195	0	1455	101	101	152	-1.528	0	1546	269	165	209	-1.046
0	1406	340	177	115	-1.263	0	1456	146	123	228	-1.526	0	1547	270	164	191	-0.995
0	1407	315	172	209	-1.073	0	1457	172	122	247	-1.522	0	1548	271	168	193	-1.091
0	1408	288	163	264	-1.957	0	1458	165	120	235	-1.657	0	1549	272	183	200	-1.189
0	1409	279	163	222	-1.886	0	1459	173	123	236	-1.676	0	1550	273	162	165	-1.015
0	1410	381	180	188	-1.255	0	1501	154	154	209	-1.836	0	1551	274	166	159	-1.084
0	1411	349	170	165	-1.255	0	1502	155	155	243	-1.855	0	1552	275	150	157	-0.898
0	1412	241	128	128	-1.730	0	1503	164	164	289	-1.975	0	1553	276	130	221	-0.604
0	1413	265	155	303	-1.188	0	1504	179	179	207	-1.112	0	1554	277	130	220	-0.600
0	1414	290	164	266	-1.544	0	1505	185	185	201	-1.143	0	1555	278	132	220	-0.802
0	1415	327	161	438	-1.968	0	1506	141	141	404	-1.791	0	1556	279	132	233	-0.802
0	1416	305	156	336	-1.990	0	1507	141	141	418	-1.822	0	1557	280	144	228	-0.706



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPHAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPHIN
0	1558	145	122	318	562	0	1702	319	179	185	363	0	1808	461	248	250	791
0	1559	134	121	311	543	0	1703	333	179	213	097	0	1809	484	261	495	353
0	1560	127	123	273	498	0	1704	410	225	396	929	0	1810	466	268	244	413
0	1561	077	120	296	444	0	1705	409	216	832	907	0	1811	452	250	354	854
0	1562	119	117	234	575	0	1706	403	196	166	257	0	1812	416	230	492	789
0	1601	377	211	324	497	0	1707	396	191	180	188	0	1813	457	232	270	668
0	1602	370	202	313	396	0	1708	387	188	154	173	0	1814	444	222	183	718
0	1603	368	200	346	310	0	1709	400	200	225	564	0	1815	364	233	256	093
0	1604	414	209	161	258	0	1710	410	209	237	797	0	1816	368	211	226	922
0	1605	291	168	243	330	0	1711	409	212	269	166	0	1817	365	208	182	019
0	1606	293	167	219	251	0	1712	395	187	161	186	0	1818	347	198	148	852
0	1607	287	166	239	072	0	1713	387	182	174	158	0	1819	344	204	228	599
0	1608	296	168	280	155	0	1714	323	167	191	267	0	1820	402	245	224	152
0	1609	316	175	282	381	0	1715	395	206	233	428	0	1821	397	201	103	444
0	1610	357	173	115	051	0	1716	376	198	286	288	0	1822	355	187	171	452
0	1611	351	170	163	052	0	1717	354	176	170	202	0	1823	325	166	169	211
0	1612	356	173	125	099	0	1718	347	175	176	080	0	1824	333	168	162	131
0	1613	371	178	160	343	0	1719	336	159	154	091	0	1825	455	251	482	230
0	1614	379	183	136	373	0	1720	319	182	239	127	0	1826	431	224	525	737
0	1615	276	144	239	878	0	1721	350	178	229	368	0	1827	370	191	184	380
0	1616	263	143	242	865	0	1722	347	177	223	549	0	1828	366	178	130	163
0	1617	250	142	229	878	0	1723	344	166	124	034	0	1829	376	177	127	155
0	1618	280	152	334	088	0	1724	328	162	126	870	0	1830	441	259	308	485
0	1619	319	156	177	019	0	1725	294	164	185	048	0	1831	448	244	321	748
0	1620	259	146	189	851	0	1726	371	188	268	391	0	1832	462	227	382	037
0	1621	245	142	321	795	0	1727	386	181	151	644	0	1833	472	210	368	973
0	1622	242	138	201	680	0	1728	365	170	143	275	0	1834	452	189	190	354
0	1623	289	146	189	801	0	1729	340	163	103	104	0	1835	462	253	402	540
0	1624	307	151	205	960	0	1730	325	249	524	196	0	1836	435	253	308	500
0	1625	293	149	161	939	0	1731	383	190	166	997	0	1837	463	182	015	020
0	1626	283	146	189	879	0	1732	375	168	041	228	0	1838	478	225	369	318
0	1627	291	153	159	045	0	1733	370	166	066	218	0	1839	465	217	324	592
0	1628	313	156	187	943	0	1734	366	165	073	140	0	1840	322	196	227	237
0	1629	327	164	277	015	0	1735	397	206	269	315	0	1841	294	202	316	242
0	1630	304	157	142	968	0	1736	458	240	135	750	0	1842	337	247	359	311
0	1631	300	148	219	942	0	1737	428	211	148	303	0	1843	448	245	481	634
0	1632	299	143	171	962	0	1738	417	206	163	306	0	1844	471	249	371	152
0	1633	326	153	145	082	0	1739	409	200	144	442	0	1845	107	155	468	080
0	1634	350	162	128	315	0	1740	407	213	257	530	0	1846	111	154	416	949
0	1635	296	164	190	310	0	1741	260	167	346	186	0	1847	157	173	318	058
0	1636	294	159	195	020	0	1742	400	199	227	713	0	1848	271	212	359	671
0	1637	307	157	184	264	0	1743	419	206	125	569	0	1849	276	204	353	472
0	1638	368	189	132	244	0	1744	382	200	185	476	0	1850	082	126	357	540
0	1639	396	201	089	399	0	1801	437	233	201	567	0	1851	081	123	299	504
0	1640	240	147	284	830	0	1802	445	252	249	926	0	1852	107	128	272	553
0	1641	233	162	321	841	0	1803	460	248	323	252	0	1853	171	162	342	222
0	1642	283	160	169	011	0	1804	615	286	449	592	0	1854	175	160	352	128
0	1643	284	160	218	956	0	1805	459	252	299	179	0	1901	307	192	439	533
0	1644	276	157	276	039	0	1806	451	241	305	039	0	1902	414	197	225	213
0	1701	335	201	258	429	0	1807	468	256	484	169	0	1903	401	279	275	582

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1904	311	165	170	966	0	2404	134	158	605	850	0	2519	145	125	210	805
0	1905	085	190	608	788	0	2405	100	153	660	725	0	2520	113	124	210	829
0	1906	466	234	198	545	0	2406	103	142	530	645	0	2521	136	126	362	714
0	1908	440	242	323	917	0	2407	109	133	360	742	0	2522	124	128	367	702
0	1909	398	219	194	564	0	2408	118	127	313	678	0	2523	110	118	289	553
0	1910	158	210	546	508	0	2409	121	136	263	686	0	2524	94	117	321	628
0	1911	314	138	194	744	0	2410	76	153	767	697	0	2525	105	117	308	604
0	1912	227	290	456	772	0	2411	119	148	412	584	0	2526	94	122	275	512
0	1913	329	159	246	040	0	2412	156	142	354	646	0	2527	81	127	372	508
0	1914	318	193	316	377	0	2413	174	130	252	688	0	2528	87	126	385	522
0	1915	476	201	385	326	0	2414	175	128	245	715	0	2529	74	124	402	496
0	1916	375	273	254	736	0	2415	96	131	573	517	0	2530	81	123	385	512
0	1917	335	147	070	155	0	2416	95	138	397	558	0	2600	144	146	404	831
0	1918	392	213	226	635	0	2417	117	138	330	646	0	2601	134	143	379	745
0	1919	367	265	388	463	0	2418	137	131	273	673	0	2602	124	132	245	634
0	1920	434	219	208	433	0	2419	141	131	310	616	0	2603	134	136	241	720
0	1921	486	256	328	576	0	2420	96	126	332	494	0	2604	122	132	285	775
0	1922	543	272	247	776	0	2421	103	127	339	497	0	2605	119	129	276	669
0	1923	481	253	575	535	0	2422	85	124	351	475	0	2606	116	131	279	690
0	1924	404	197	392	410	0	2423	98	122	376	567	0	2607	118	131	283	826
0	1925	423	208	271	701	0	2424	102	123	374	623	0	2608	125	133	346	692
0	1926	383	206	222	382	0	2425	148	99	171	487	0	2609	149	123	230	662
0	1927	494	252	262	874	0	2426	128	98	212	454	0	2610	143	119	429	599
0	1928	324	179	275	180	0	2427	52	95	281	363	0	2611	133	117	443	574
0	1930	565	279	572	653	0	2428	133	96	172	457	0	2612	147	119	423	736
0	2301	175	133	260	681	0	2429	100	98	195	445	0	2613	128	117	281	524
0	2302	187	134	237	656	0	2430	83	98	194	410	0	2614	149	118	280	546
0	2303	221	144	364	802	0	2431	34	97	256	356	0	2615	123	114	291	517
0	2304	196	152	474	814	0	2432	90	97	197	411	0	2616	130	116	309	498
0	2305	177	165	479	850	0	2433	73	99	299	430	0	2617	137	118	294	549
0	2306	153	131	461	598	0	2434	60	99	269	433	0	2618	128	120	270	573
0	2307	198	139	207	735	0	2435	34	100	287	407	0	2619	126	123	257	509
0	2308	134	161	949	720	0	2501	150	152	374	896	0	2620	110	120	256	487
0	2309	180	157	935	807	0	2502	154	148	358	823	0	2621	129	121	222	546
0	2310	192	181	169	275	0	2503	153	149	406	859	0	2622	120	116	276	551
0	2311	31	156	157	946	0	2504	133	139	272	687	0	2623	128	135	297	715
0	2312	369	164	117	017	0	2505	136	140	288	701	0	2624	128	134	300	775
0	2313	305	178	389	126	0	2506	133	140	283	686	0	2625	115	129	302	533
0	2314	171	176	810	156	0	2507	141	135	315	618	0	2626	127	131	295	608
0	2315	158	119	242	532	0	2508	130	133	335	666	0	2627	121	126	308	596
0	2316	168	121	220	709	0	2509	136	133	317	682	0	2628	145	144	256	703
0	2317	154	140	603	640	0	2510	132	138	321	695	0	2702	145	144	257	685
0	2318	188	148	648	818	0	2511	130	130	239	754	0	2703	176	147	276	751
0	2319	154	118	280	538	0	2512	201	139	233	875	0	2704	273	151	122	919
0	2320	158	117	262	526	0	2513	114	114	122	710	0	2705	186	149	290	838
0	2321	154	118	376	550	0	2514	209	138	206	939	0	2706	140	146	323	1033
0	2322	169	134	328	588	0	2515	172	132	250	756	0	2707	138	143	343	724
0	2401	154	169	523	736	0	2516	159	115	183	750	0	2708	164	138	347	712
0	2402	144	170	588	777	0	2517	158	117	200	748	0	2709	154	151	324	1030
0	2403	121	160	481	802	0	2518	165	120	191	828	0	2710	165	150	299	853

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	2711	159	149	305	861	0	2822	096	126	348	642	0	1114	145	317	510	924
0	2712	159	148	279	869	0	2823	137	136	314	580	0	1115	057	255	043	857
0	2713	210	144	222	717	0	2824	184	145	334	654	0	1116	105	322	358	812
0	2714	178	165	313	240	0	2901	138	129	382	575	0	1117	012	293	360	990
0	2715	201	143	228	913	0	2902	155	132	371	693	0	1118	019	285	879	982
0	2716	211	147	180	832	0	2903	149	126	230	650	0	1119	035	221	969	701
0	2717	186	145	260	366	0	2904	175	130	208	687	0	1120	073	261	171	076
0	2718	174	130	323	846	0	2905	133	125	245	639	0	1121	052	260	032	073
0	2719	167	139	289	651	0	2906	141	126	247	642	0	1122	101	306	479	860
0	2720	148	122	283	596	0	2907	291	142	188	806	0	1123	031	321	288	225
0	2721	195	141	266	954	0	2908	257	137	197	765	0	1124	017	294	150	976
0	2722	214	145	233	184	0	2909	214	155	291	170	0	1125	051	210	822	499
0	2723	216	139	231	797	0	2910	198	158	266	915	0	1126	103	225	922	551
0	2724	192	136	248	760	0	2911	226	155	281	912	0	1127	087	220	792	593
0	2725	108	119	367	514	0	2912	216	155	348	954	0	1128	130	267	905	923
0	2726	117	119	366	533	0	2913	266	184	350	277	0	1129	042	327	153	550
0	2727	136	120	334	563	0	2914	125	127	285	658	0	1130	013	288	978	062
0	2728	197	130	212	712	0	2915	286	197	361	336	0	1131	073	188	870	490
0	2729	186	127	211	745	0	2916	258	159	210	335	0	1132	173	223	121	539
0	2730	187	128	230	714	0	2917	180	135	264	751	0	1133	114	205	976	430
0	2731	070	136	335	578	0	2918	179	141	284	709	0	1134	155	237	106	931
0	2732	079	134	326	590	0	2919	278	189	254	472	0	1135	045	293	319	198
0	2733	079	133	333	618	0	2920	287	170	183	011	0	1136	057	224	099	649
0	2734	099	138	339	694	0	2921	324	187	181	478	0	1137	042	168	669	490
0	2735	180	140	171	784	0	2922	345	220	266	599	0	1138	125	177	834	394
0	2736	207	147	178	783	0	2923	180	142	285	878	0	1139	064	167	774	475
0	2737	093	117	276	503	0	2924	182	141	242	728	0	1140	137	178	852	465
0	2738	093	116	279	510	0	2925	288	247	331	693	0	1141	059	222	330	764
0	2739	085	126	366	563	0	2926	182	144	312	736	0	1142	033	194	987	616
0	2801	099	170	695	884	0	2927	195	146	239	757	0	1143	008	165	732	602
0	2802	117	201	711	304	0	2928	168	141	258	707	0	1144	080	169	814	442
0	2803	162	231	658	171	0	2930	084	118	301	504	0	1145	030	160	685	461
0	2804	249	214	543	204	0	2931	100	103	257	485	0	1146	084	170	716	504
0	2805	126	161	473	034	0	2932	053	118	487	522	0	1147	058	195	934	635
0	2806	115	162	536	860	0	2933	105	105	227	513	0	1148	018	164	643	707
0	2807	107	179	558	354	0	2934	020	108	373	442	0	1149	043	149	573	513
0	2808	241	205	670	376	0	2935	095	113	355	616	0	1150	002	149	658	596
0	2809	369	205	180	527	0	1101	275	208	899	097	0	1151	017	135	542	495
0	2810	163	135	253	085	0	1102	173	203	797	833	0	1152	021	145	468	475
0	2811	130	130	284	927	0	1103	002	221	807	917	0	1153	048	154	549	647
0	2812	104	125	296	594	0	1104	056	262	052	787	0	1154	088	151	429	685
0	2813	124	138	302	711	0	1105	061	294	027	126	0	1155	083	145	841	645
0	2814	190	136	230	805	0	1106	141	221	771	919	0	1156	079	131	440	555
0	2815	151	129	257	712	0	1107	047	261	208	900	0	1157	096	125	341	600
0	2816	131	128	275	687	0	1108	058	250	053	864	0	1158	117	126	318	525
0	2817	122	131	311	635	0	1109	031	234	945	641	0	1159	110	130	318	679
0	2818	138	138	359	645	0	1110	002	270	009	023	0	1160	105	126	285	617
0	2819	201	133	396	633	0	1111	019	290	353	857	0	1161	020	144	513	550
0	2820	160	129	348	666	0	1112	026	280	182	771	0	1162	027	148	516	586
0	2821	125	126	368	679	0	1113	091	191	885	877	0	1163	086	131	354	538

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	1164	107	120	302	526	10	1248	070	137	370	621	10	1339	205	183	499	970
10	1165	085	124	367	516	10	1249	111	131	350	540	10	1340	141	178	609	738
10	1166	101	123	330	526	10	1250	083	124	356	588	10	1341	253	121	133	133
10	1201	176	359	1	392	10	1251	103	127	318	656	10	1342	258	128	136	881
10	1202	177	361	1	417	10	1252	078	122	330	519	10	1344	183	146	500	668
10	1203	110	314	1	280	10	1253	074	128	351	523	10	1345	150	149	482	714
10	1204	021	253	1	991	10	1254	076	122	302	473	10	1346	153	125	263	915
10	1205	057	321	1	408	10	1255	055	122	293	580	10	1347	156	123	276	718
10	1206	069	316	1	352	10	1256	055	122	311	547	10	1348	131	125	308	694
10	1207	071	312	1	118	10	1257	056	116	389	473	10	1349	085	118	339	886
10	1208	029	269	1	018	10	1258	056	112	404	428	10	1350	068	115	331	337
10	1209	056	227	1	822	10	1259	100	120	354	523	10	1351	090	101	287	470
10	1210	215	346	1	271	10	1301	410	308	506	956	10	1352	101	100	273	470
10	1211	248	359	1	296	10	1302	304	226	582	084	10	1353	074	097	283	444
10	1212	268	376	1	234	10	1303	318	202	520	073	10	1354	056	095	295	376
10	1213	201	259	1	036	10	1304	260	209	387	442	10	1355	153	135	363	548
10	1214	087	211	1	722	10	1305	251	203	355	428	10	1356	119	119	358	516
10	1215	218	367	1	737	10	1306	273	212	384	157	10	1357	091	109	320	484
10	1216	271	268	1	058	10	1307	286	208	520	192	10	1358	089	110	316	481
10	1217	313	332	1	286	10	1308	184	200	706	216	10	1359	089	124	289	561
10	1218	173	263	1	072	10	1309	057	268	700	923	10	1360	081	123	286	544
10	1219	052	210	1	837	10	1310	012	273	165	847	10	1401	310	233	316	512
10	1220	237	328	1	466	10	1311	212	177	561	910	10	1402	268	201	277	404
10	1221	295	342	1	649	10	1312	237	181	462	949	10	1403	226	161	273	942
10	1222	305	331	1	484	10	1313	264	199	495	134	10	1404	213	157	298	957
10	1223	174	258	1	159	10	1314	281	242	880	247	10	1405	272	176	213	079
10	1224	056	193	1	880	10	1315	011	238	946	804	10	1406	262	174	237	263
10	1225	267	260	1	377	10	1316	284	194	566	090	10	1407	260	173	227	026
10	1226	308	276	1	321	10	1317	305	214	576	238	10	1408	236	164	280	945
10	1227	330	264	1	435	10	1318	299	253	674	416	10	1409	230	151	342	172
10	1228	171	226	1	038	10	1319	142	268	884	244	10	1410	305	177	208	243
10	1229	005	192	1	729	10	1320	000	243	976	042	10	1411	307	174	200	177
10	1230	144	226	1	505	10	1321	291	202	458	155	10	1412	224	129	335	749
10	1231	284	245	1	298	10	1322	342	220	459	470	10	1413	214	153	272	893
10	1232	262	219	1	214	10	1323	055	263	759	209	10	1414	217	154	259	082
10	1233	132	199	1	115	10	1324	097	251	755	006	10	1415	259	161	392	027
10	1234	077	157	1	679	10	1325	015	235	1007	771	10	1416	240	155	420	843
10	1235	136	200	1	984	10	1326	348	191	268	159	10	1417	228	151	497	862
10	1236	145	216	1	031	10	1327	347	204	437	357	10	1418	238	149	301	933
10	1237	112	185	1	969	10	1328	253	242	780	378	10	1419	227	149	235	479
10	1238	009	167	1	848	10	1329	253	237	905	139	10	1420	246	156	337	889
10	1239	129	159	1	516	10	1330	003	227	1110	772	10	1421	235	150	322	798
10	1240	009	163	1	739	10	1331	342	177	241	965	10	1422	233	152	216	822
10	1241	003	150	1	518	10	1332	345	193	371	128	10	1423	243	153	203	975
10	1242	022	143	1	520	10	1333	274	236	655	117	10	1424	242	163	219	438
10	1243	062	140	1	569	10	1334	064	235	853	952	10	1425	239	162	338	338
10	1244	116	135	1	358	10	1335	043	212	860	873	10	1426	253	153	279	904
10	1245	091	138	1	342	10	1336	300	134	113	055	10	1427	238	146	255	901
10	1246	087	131	1	439	10	1337	324	141	218	049	10	1428	238	148	229	034
10	1247	082	139	1	375	10	1338	301	168	450	966	10	1429	244	158	235	130

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	1430	-.268	.147	.176	-.910	10	1521	-.214	.124	-.196	-.693	10	1609	-.291	.176	.243	-1.238
10	1431	-.255	.148	.206	-.894	10	1522	-.206	.121	-.213	-.733	10	1610	-.310	.165	.215	-1.054
10	1432	-.234	.143	.213	-.788	10	1523	-.199	.122	-.229	-.665	10	1611	-.312	.161	.229	-1.052
10	1433	-.247	.145	.194	-.882	10	1524	-.209	.123	-.224	-.775	10	1612	-.304	.162	.224	-1.117
10	1434	-.258	.154	.265	-.876	10	1525	-.194	.134	-.179	-.835	10	1613	-.332	.167	.206	-1.023
10	1435	-.271	.150	.179	-.894	10	1526	-.197	.135	-.240	-.699	10	1614	-.340	.172	.242	-1.103
10	1436	-.278	.128	.128	-.806	10	1527	-.195	.133	-.245	-.667	10	1615	-.253	.138	.186	-.988
10	1437	-.261	.151	.207	-.130	10	1528	-.185	.131	-.245	-.604	10	1616	-.242	.136	.186	-.831
10	1438	-.265	.157	.226	-.020	10	1529	-.187	.132	-.243	-.658	10	1617	-.230	.132	.167	-.751
10	1439	-.287	.168	.149	-.269	10	1530	-.208	.132	-.250	-.624	10	1618	-.257	.144	.189	-.856
10	1440	-.291	.169	.198	-.053	10	1531	-.198	.133	-.235	-.698	10	1619	-.282	.156	.225	-1.097
10	1441	-.308	.172	.182	-.270	10	1532	-.191	.131	-.239	-.655	10	1620	-.230	.142	.267	-.897
10	1442	-.280	.161	.199	-.902	10	1533	-.185	.129	-.233	-.658	10	1621	-.217	.140	.223	-.705
10	1443	-.268	.159	.206	-.881	10	1534	-.185	.127	-.253	-.679	10	1622	-.218	.140	.199	-.716
10	1444	-.266	.160	.239	-.874	10	1535	-.213	.134	-.185	-.989	10	1623	-.238	.141	.209	-.732
10	1445	-.237	.153	.265	-.253	10	1536	-.219	.134	-.164	-.010	10	1624	-.279	.160	.227	-1.123
10	1446	-.203	.130	.202	-.759	10	1537	-.214	.132	-.299	-.672	10	1625	-.236	.140	.167	-.936
10	1447	-.180	.123	.226	-.601	10	1538	-.195	.128	-.299	-.627	10	1626	-.230	.135	.174	-.711
10	1448	-.176	.120	.217	-.562	10	1539	-.197	.125	-.275	-.617	10	1627	-.249	.143	.192	-.853
10	1449	-.174	.123	.262	-.605	10	1540	-.208	.123	-.210	-.666	10	1628	-.270	.153	.178	-.941
10	1450	-.152	.130	.295	-.672	10	1541	-.208	.122	-.190	-.677	10	1629	-.276	.165	.191	-1.189
10	1451	-.157	.129	.279	-.669	10	1542	-.208	.124	-.178	-.692	10	1630	-.229	.141	.176	-1.091
10	1452	-.164	.126	.261	-.643	10	1543	-.226	.138	-.155	-.772	10	1631	-.241	.134	.200	-.886
10	1453	-.173	.119	.249	-.580	10	1544	-.215	.132	-.129	-.744	10	1632	-.239	.146	.234	-.826
10	1454	-.187	.124	.249	-.609	10	1545	-.217	.132	-.147	-.749	10	1633	-.255	.157	.218	-.936
10	1455	-.150	.110	.187	-.502	10	1546	-.215	.126	-.207	-.691	10	1634	-.275	.166	.206	-.957
10	1456	-.127	.123	.270	-.558	10	1547	-.215	.127	-.218	-.700	10	1635	-.247	.155	.179	-1.577
10	1457	-.173	.131	.290	-.709	10	1548	-.229	.132	-.216	-.883	10	1636	-.251	.147	.160	-1.123
10	1458	-.156	.128	.284	-.606	10	1549	-.233	.135	-.151	-.007	10	1637	-.256	.147	.170	-.819
10	1459	-.169	.129	.261	-.603	10	1550	-.223	.143	-.230	-.691	10	1638	-.261	.153	.230	-.794
10	1501	-.217	.153	.290	-.794	10	1551	-.224	.140	-.237	-.678	10	1639	-.272	.160	.219	-.869
10	1502	-.208	.151	.269	-.755	10	1552	-.202	.132	-.240	-.661	10	1640	-.201	.146	.344	-.797
10	1503	-.276	.158	.224	-.890	10	1553	-.180	.127	-.249	-.648	10	1641	-.203	.142	.242	-.695
10	1504	-.308	.173	.265	-.064	10	1554	-.170	.136	-.237	-.726	10	1642	-.253	.151	.227	-.732
10	1505	-.324	.181	.261	-.180	10	1555	-.172	.136	-.230	-.709	10	1643	-.251	.153	.229	-.732
10	1506	-.201	.148	.291	-.995	10	1556	-.183	.135	-.233	-.675	10	1644	-.221	.144	.207	-.833
10	1507	-.193	.145	.281	-.912	10	1557	-.230	.147	-.298	-.819	10	1701	-.292	.196	.342	-.136
10	1508	-.212	.145	.259	-.885	10	1558	-.144	.117	-.333	-.504	10	1702	-.299	.190	.226	-1.533
10	1509	-.286	.156	.211	-.854	10	1559	-.138	.116	-.348	-.488	10	1703	-.312	.193	.261	-1.436
10	1510	-.293	.164	.218	-.945	10	1560	-.138	.132	-.388	-.567	10	1704	-.354	.238	.696	-1.718
10	1511	-.309	.163	.194	-.960	10	1561	-.080	.130	-.431	-.487	10	1705	-.344	.220	.577	-1.360
10	1512	-.315	.166	.187	-.037	10	1562	-.122	.128	-.398	-.591	10	1706	-.362	.214	.568	-1.666
10	1513	-.205	.133	.334	-.634	10	1601	-.348	.199	-.248	-.411	10	1707	-.374	.211	.350	-1.641
10	1514	-.221	.134	.313	-.613	10	1602	-.350	.193	-.230	-.239	10	1708	-.388	.209	.219	-1.638
10	1515	-.219	.132	.309	-.670	10	1603	-.365	.197	-.244	-.292	10	1709	-.381	.199	.204	-1.668
10	1516	-.288	.146	.173	-.893	10	1604	-.345	.209	-.247	-.138	10	1710	-.382	.205	.188	-1.685
10	1517	-.286	.148	.202	-.833	10	1605	-.260	.162	-.247	-.015	10	1711	-.347	.207	.725	-1.931
10	1518	-.315	.174	.242	-.533	10	1606	-.266	.164	-.246	-.111	10	1712	-.351	.185	.490	-1.236
10	1519	-.195	.134	.290	-.693	10	1607	-.262	.165	-.384	-.924	10	1713	-.352	.176	.343	-1.089
10	1520	-.199	.133	.258	-.685	10	1608	-.255	.170	-.262	-.106	10	1714	-.298	.163	.264	-1.026



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	1715	.361	.192	.206	-1.2558	10	1821	-.402	.231	.617	-1.878	10	1918	-.276	.228	.557	-1.319
10	1716	-.312	.200	.378	-1.7133	10	1822	-.380	.236	.884	-1.462	10	1919	-.085	.308	1.258	-1.100
10	1717	-.294	.183	.324	-1.1677	10	1823	-.381	.247	.577	-2.213	10	1920	-.375	.218	.271	-1.409
10	1718	-.179	.179	.322	-1.2112	10	1824	-.385	.243	.503	-2.343	10	1921	-.405	.242	.403	-1.508
10	1719	-.311	.177	.229	-1.2111	10	1825	-.419	.298	.401	-2.079	10	1922	-.436	.303	.692	-2.227
10	1720	-.323	.186	.299	-1.3305	10	1826	-.386	.281	.472	-1.779	10	1924	-.409	.260	.409	-1.912
10	1721	-.297	.193	.414	-1.582	10	1827	-.356	.297	.152	-2.329	10	1925	-.336	.217	.242	-1.480
10	1722	-.298	.183	.391	-1.3119	10	1828	-.379	.278	.661	-1.832	10	1926	-.339	.222	.407	-1.416
10	1723	-.298	.183	.567	-1.006	10	1829	-.407	.275	.688	-1.834	10	1927	-.359	.217	.162	-1.860
10	1724	-.299	.176	.363	-1.016	10	1830	-.369	.271	.310	-2.278	10	1928	-.444	.293	.576	-1.643
10	1725	-.309	.181	.252	-1.2888	10	1831	-.315	.255	.438	-1.531	10	1929	-.259	.165	.528	-.944
10	1726	-.301	.208	.701	-1.587	10	1832	-.349	.289	.698	-1.995	10	1930	-.418	.296	.485	-1.677
10	1727	-.299	.173	.310	-1.3336	10	1833	-.405	.274	.650	-1.827	10	2301	-.161	.129	.381	-.609
10	1728	-.300	.166	.192	-1.158	10	1834	-.377	.241	.387	-1.418	10	2302	-.171	.130	.342	-.640
10	1729	-.286	.162	.205	-1.078	10	1835	-.298	.245	.442	-1.868	10	2303	-.174	.121	.147	-.717
10	1730	-.340	.238	.451	-1.380	10	1836	-.268	.248	.388	-1.451	10	2304	-.173	.123	.200	-.718
10	1731	-.289	.203	.543	-1.242	10	1837	-.341	.225	.381	-1.250	10	2305	-.167	.126	.250	-.706
10	1732	-.292	.183	.338	-1.412	10	1838	-.369	.296	.742	-1.921	10	2306	-.145	.124	.322	-.593
10	1733	-.306	.177	.252	-1.559	10	1839	-.376	.254	.450	-1.448	10	2307	-.169	.136	.216	-.740
10	1734	-.333	.175	.235	-1.532	10	1840	-.229	.196	.347	-1.884	10	2308	-.145	.143	.401	-.785
10	1735	-.333	.197	.223	-1.381	10	1841	-.223	.200	.356	-1.488	10	2309	-.167	.145	.480	-.861
10	1736	-.330	.187	.284	-1.187	10	1842	-.234	.257	.443	-1.666	10	2310	-.179	.155	.573	-1.104
10	1737	-.293	.169	.186	-1.014	10	1843	-.274	.251	.521	-2.010	10	2311	-.240	.145	.192	-.765
10	1738	-.338	.194	.210	-1.479	10	1844	-.247	.276	.583	-1.630	10	2312	-.276	.160	.182	-1.129
10	1739	-.332	.185	.221	-1.325	10	1845	-.125	.157	.417	-1.991	10	2313	-.257	.153	.199	-.907
10	1740	-.337	.193	.243	-1.583	10	1846	-.105	.152	.452	-1.868	10	2314	-.169	.138	.275	-.775
10	1741	-.209	.155	.438	-1.006	10	1847	-.131	.171	.393	-1.204	10	2315	-.144	.127	.273	-.599
10	1742	-.316	.178	.159	-2.064	10	1848	-.196	.202	.562	-1.469	10	2316	-.161	.140	.329	-.759
10	1743	-.339	.178	.213	-1.136	10	1849	-.222	.203	.707	-1.508	10	2317	-.157	.148	.316	-.739
10	1744	-.267	.169	.216	-1.015	10	1850	-.089	.124	.306	-1.476	10	2318	-.198	.155	.437	-.873
10	1801	-.366	.240	.620	-1.775	10	1851	-.096	.129	.387	-.547	10	2319	-.146	.126	.385	-.583
10	1802	-.355	.258	.620	-1.773	10	1852	-.112	.135	.367	-1.683	10	2320	-.165	.128	.364	-.608
10	1803	-.470	.271	.791	-1.418	10	1853	-.178	.171	.373	-1.368	10	2321	-.145	.128	.388	-.610
10	1804	-.405	.279	.817	-1.749	10	1854	-.160	.167	.373	-1.243	10	2322	-.167	.130	.305	-.589
10	1805	-.398	.278	.490	-1.856	10	1901	-.278	.219	.412	-1.621	10	2401	-.158	.129	.268	-.741
10	1806	-.418	.292	.483	-1.799	10	1902	-.398	.223	.239	-1.385	10	2402	-.172	.137	.241	-.714
10	1807	-.426	.283	.516	-1.731	10	1903	-.349	.269	.248	-1.396	10	2403	-.158	.136	.362	-.642
10	1808	-.458	.289	.504	-2.054	10	1904	-.265	.169	.303	-1.878	10	2404	-.157	.137	.297	-.646
10	1809	-.419	.241	.547	-1.131	10	1905	-.125	.197	.676	-1.848	10	2405	-.145	.137	.280	-.669
10	1810	-.416	.230	.348	-2.075	10	1906	-.381	.255	.377	-1.409	10	2406	-.140	.135	.286	-.646
10	1811	-.332	.234	.291	-1.696	10	1908	-.365	.261	.347	-1.435	10	2407	-.131	.134	.332	-.635
10	1812	-.244	.241	.492	-1.886	10	1909	-.360	.214	.272	-1.401	10	2408	-.134	.133	.378	-.644
10	1813	-.378	.259	.489	-1.986	10	1910	-.218	.247	.217	-1.585	10	2409	-.119	.127	.294	-.551
10	1814	-.378	.244	.562	-1.796	10	1911	-.284	.141	.289	-1.797	10	2410	-.112	.133	.378	-.551
10	1815	-.378	.244	.454	-2.018	10	1912	-.019	.285	.427	-1.889	10	2411	-.161	.161	.373	-.700
10	1816	-.403	.246	.606	-1.589	10	1913	-.277	.148	.165	-1.872	10	2412	-.193	.153	.417	-.675
10	1817	-.384	.232	.505	-2.020	10	1914	-.241	.191	.424	-1.167	10	2413	-.185	.142	.270	-.775
10	1818	-.365	.243	.557	-1.526	10	1915	-.429	.235	.375	-1.802	10	2414	-.177	.138	.266	-.737
10	1819	-.384	.243	.469	-2.017	10	1916	-.066	.278	.275	-1.948	10	2415	-.112	.147	.429	-.769
10	1820	-.384	.258	.426	-2.027	10	1917	-.286	.145	.121	-1.957	10	2416	-.096	.129	.293	-.629

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	417	092	126	229	755	10	26002	113	121	250	510	10	2724	149	138	339	614
10	418	128	128	230	699	10	26003	115	128	342	730	10	2725	111	115	318	526
10	419	116	121	230	498	10	26004	121	128	293	628	10	2726	124	114	310	571
10	420	098	122	343	498	10	26005	102	118	274	588	10	2727	142	114	287	605
10	421	121	123	316	520	10	26006	098	116	268	538	10	2728	151	128	305	608
10	422	092	120	320	500	10	26007	090	117	287	515	10	2729	140	126	290	600
10	423	105	119	275	506	10	26008	097	116	264	520	10	2730	142	129	288	625
10	424	105	119	277	503	10	26009	103	120	367	553	10	2731	080	121	309	546
10	425	140	097	231	443	10	2610	138	116	283	536	10	2732	086	119	310	563
10	426	108	097	244	412	10	26111	142	131	352	648	10	2733	094	119	299	536
10	427	078	096	267	384	10	2612	128	127	356	568	10	2734	101	121	280	533
10	428	096	095	287	393	10	2613	152	130	319	581	10	2735	145	119	308	555
10	429	110	093	247	405	10	2615	122	121	291	499	10	2736	160	121	241	593
10	430	081	094	240	408	10	2616	150	122	343	539	10	2737	082	114	322	490
10	431	070	094	251	452	10	2617	111	118	395	492	10	2738	085	114	323	472
10	432	069	093	252	455	10	2618	130	111	212	606	10	2739	093	115	325	455
10	433	094	093	274	449	10	2619	130	113	217	617	10	2801	072	153	508	632
10	434	083	099	280	432	10	2620	122	127	315	528	10	2802	099	166	668	901
10	435	077	100	285	419	10	2621	135	132	278	590	10	2803	106	184	671	231
10	501	148	129	264	563	10	2622	116	130	303	581	10	2804	166	170	680	234
10	502	125	122	258	548	10	2623	153	133	255	615	10	2805	099	127	425	533
10	503	124	123	241	556	10	2624	122	119	288	518	10	2806	083	138	556	749
10	504	120	128	307	538	10	2625	103	124	328	539	10	2807	073	149	599	758
10	505	115	128	307	526	10	2626	105	124	325	539	10	2808	149	183	563	908
10	506	115	128	316	524	10	2627	095	122	336	510	10	2809	231	173	256	133
10	507	105	124	349	573	10	2628	104	122	335	517	10	2810	176	124	142	599
10	508	097	121	349	553	10	2629	104	126	324	592	10	2811	137	123	239	547
10	509	099	121	333	521	10	2701	119	131	297	711	10	2812	103	133	415	490
10	510	099	121	333	524	10	2702	122	132	334	713	10	2813	120	145	367	773
10	511	200	138	284	791	10	2703	129	142	395	656	10	2814	189	148	361	760
10	512	178	140	250	799	10	2704	206	131	224	302	10	2815	151	130	242	684
10	513	169	104	177	562	10	2705	137	143	383	716	10	2816	131	130	258	672
10	514	183	124	273	622	10	2706	113	128	487	574	10	2817	143	137	258	684
10	515	174	123	273	613	10	2707	105	126	505	529	10	2818	135	143	442	648
10	516	134	129	222	575	10	2708	133	123	332	577	10	2819	189	141	363	722
10	517	139	130	234	563	10	2709	119	125	476	590	10	2820	140	113	272	493
10	518	151	133	280	613	10	2710	131	121	294	579	10	2821	113	113	309	452
10	519	182	175	331	730	10	2711	126	121	287	589	10	2822	102	116	360	460
10	520	140	142	306	500	10	2712	121	120	295	569	10	2823	140	125	296	561
10	521	151	126	303	588	10	2713	162	129	330	719	10	2824	171	132	247	618
10	522	125	121	286	580	10	2714	138	111	281	503	10	2901	140	122	243	523
10	523	110	129	333	575	10	2715	187	130	227	726	10	2902	158	126	243	601
10	524	093	127	336	490	10	2716	172	126	270	641	10	2903	137	128	295	563
10	525	119	128	333	490	10	2717	174	120	158	592	10	2904	161	131	281	661
10	526	089	121	223	540	10	2718	170	119	216	654	10	2905	122	127	305	559
10	527	085	118	333	542	10	2719	173	119	210	670	10	2906	132	128	317	603
10	528	090	117	333	555	10	2720	142	116	219	636	10	2907	231	133	218	675
10	529	076	116	333	542	10	2721	152	140	329	667	10	2908	209	127	184	667
10	530	081	116	333	543	10	2722	155	140	334	655	10	2909	194	140	328	743
10	531	113	123	344	518	10	2723	182	142	321	679	10	2910	200	146	266	877

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	29111	183	148	337	931	20	1127	052	165	602	749	20	1211	108	308	145	456
10	29112	187	141	265	047	20	1128	053	164	786	850	20	1212	064	308	174	414
10	29113	188	160	364	072	20	1129	126	201	865	033	20	1213	069	241	762	810
10	29114	104	124	306	513	20	1130	102	177	565	081	20	1214	095	219	729	012
10	29115	190	170	356	114	20	1131	063	209	862	044	20	1215	153	260	826	340
10	29116	167	130	212	808	20	1132	008	205	1	063	20	1216	097	155	670	362
10	29117	144	119	221	549	20	1133	008	169	995	589	20	1217	093	314	111	736
10	29118	132	133	250	008	20	1134	060	176	834	856	20	1218	161	289	973	745
10	29119	201	170	375	341	20	1135	048	213	900	073	20	1219	165	253	722	908
10	29220	204	144	433	767	20	1136	052	180	639	840	20	1220	149	271	182	077
10	29221	212	148	283	823	20	1137	007	204	1	020	20	1221	122	291	199	134
10	29222	213	177	422	301	20	1138	034	216	1	318	20	1222	133	315	193	412
10	29223	135	132	247	844	20	1139	031	195	982	684	20	1223	101	261	985	483
10	29224	142	131	244	776	20	1140	010	181	952	518	20	1224	136	214	621	410
10	29225	164	154	380	415	20	1141	020	204	868	877	20	1225	059	257	830	625
10	29226	152	127	227	653	20	1142	044	173	812	739	20	1226	086	282	927	608
10	29227	165	125	181	751	20	1143	009	181	672	803	20	1227	007	276	1	021
10	29228	139	124	218	631	20	1144	049	185	852	944	20	1228	046	267	988	801
10	29229	101	128	329	489	20	1145	000	161	678	599	20	1229	120	227	693	588
10	29330	106	105	284	447	20	1146	022	153	652	551	20	1230	117	279	953	556
10	29331	098	102	232	446	20	1147	018	184	1	041	20	1231	060	299	1	020
10	29332	103	093	215	396	20	1148	021	152	624	498	20	1232	019	277	1	153
10	29333	080	096	282	375	20	1149	065	190	709	014	20	1233	053	202	736	452
10	29334	089	099	240	405	20	1150	039	194	879	954	20	1234	119	157	722	983
20	11011	177	236	1	104	20	1151	050	155	548	632	20	1235	069	205	736	218
20	11012	149	223	980	896	20	1152	048	138	396	453	20	1236	052	266	916	384
20	11013	093	213	795	976	20	1153	036	141	548	548	20	1237	033	237	881	715
20	11014	081	221	899	045	20	1154	079	137	430	521	20	1238	060	182	710	977
20	11015	100	235	952	356	20	1155	104	151	390	738	20	1239	150	160	525	900
20	11016	174	204	794	030	20	1156	112	145	499	598	20	1240	107	169	436	921
20	11017	143	212	757	209	20	1157	106	129	356	595	20	1241	089	158	496	755
20	11018	116	211	856	108	20	1158	126	129	287	534	20	1242	075	151	637	657
20	11019	089	213	1	127	20	1159	085	129	310	510	20	1243	077	125	384	649
20	11110	086	230	993	885	20	1160	049	109	271	435	20	1244	108	134	316	673
20	11111	105	206	717	028	20	1161	075	133	402	517	20	1245	104	136	289	673
20	11112	131	199	695	373	20	1162	109	137	408	611	20	1246	099	127	370	079
20	11113	175	196	645	317	20	1163	091	128	345	607	20	1247	110	135	355	577
20	11114	083	215	946	838	20	1164	099	130	291	638	20	1248	078	130	323	484
20	11115	098	195	889	675	20	1165	087	129	292	619	20	1249	094	117	309	468
20	11116	100	197	655	839	20	1166	105	132	287	600	20	1250	078	121	308	560
20	11117	089	213	608	926	20	1201	113	290	1	300	20	1251	105	125	283	611
20	11118	104	183	930	213	20	1202	136	302	1	276	20	1252	076	121	308	591
20	11119	097	187	719	826	20	1203	114	278	1	348	20	1253	064	131	408	530
20	11200	128	216	845	045	20	1204	144	272	1	555	20	1254	084	107	246	452
20	11201	086	190	647	129	20	1205	203	295	1	946	20	1255	085	130	340	551
20	11202	120	202	855	946	20	1206	160	271	1	091	20	1256	056	126	345	509
20	11203	148	231	726	340	20	1207	125	279	1	278	20	1257	053	121	325	450
20	11204	198	217	640	126	20	1208	164	242	1	009	20	1258	069	122	364	461
20	11205	127	186	638	908	20	1209	165	218	1	857	20	1259	100	124	322	441
20	11206	063	200	719	209	20	1210	093	283	1	050	20	13001	283	207	539	146



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	1302	- .246	.185	.459	-1 .108	20	1353	- .097	.102	.277	- .468	20	1443	- .175	.116	.226	- .625
20	1303	- .256	.177	.338	-1 .270	20	1354	- .058	.098	.305	- .417	20	1444	- .160	.116	.245	- .624
20	1304	- .218	.168	.416	-1 .059	20	1355	- .151	.130	.480	- .641	20	1445	- .150	.124	.235	- .624
20	1305	- .182	.162	.396	- .959	20	1356	- .114	.125	.271	- .499	20	1446	- .149	.124	.260	- .624
20	1306	- .204	.164	.553	-1 .171	20	1357	- .124	.123	.288	- .521	20	1447	- .140	.122	.268	- .624
20	1307	- .187	.166	.607	-1 .002	20	1358	- .109	.121	.284	- .468	20	1448	- .156	.120	.251	- .624
20	1308	- .185	.173	.690	- .887	20	1359	- .106	.124	.287	- .570	20	1449	- .141	.121	.266	- .624
20	1309	- .156	.189	.766	- .730	20	1360	- .097	.126	.430	- .587	20	1450	- .133	.123	.279	- .624
20	1310	- .126	.190	.768	- .776	20	1401	- .219	.174	.261	-1 .642	20	1451	- .149	.123	.273	- .624
20	1311	- .183	.164	.363	- .834	20	1402	- .203	.164	.282	-1 .291	20	1452	- .134	.121	.286	- .624
20	1312	- .207	.164	.365	- .920	20	1403	- .220	.156	.312	-1 .103	20	1453	- .139	.111	.234	- .624
20	1313	- .187	.168	.449	- .853	20	1404	- .200	.153	.313	- .838	20	1454	- .148	.113	.249	- .624
20	1314	- .197	.188	.618	-1 .071	20	1405	- .235	.176	.228	-1 .321	20	1455	- .131	.093	.144	- .624
20	1315	- .076	.227	.851	-1 .103	20	1406	- .223	.171	.273	-1 .438	20	1456	- .139	.124	.262	- .624
20	1316	- .271	.161	.344	-1 .037	20	1407	- .240	.167	.245	-1 .371	20	1457	- .137	.123	.298	- .624
20	1317	- .265	.165	.517	-1 .129	20	1408	- .209	.158	.249	- .936	20	1458	- .143	.123	.291	- .624
20	1318	- .293	.189	.528	-1 .495	20	1409	- .186	.148	.238	- .875	20	1459	- .166	.125	.275	- .624
20	1319	- .181	.196	.614	-1 .143	20	1410	- .229	.160	.310	-1 .046	20	1501	- .191	.143	.263	- .624
20	1320	- .110	.197	.723	- .835	20	1411	- .253	.159	.271	-1 .036	20	1502	- .181	.141	.272	- .624
20	1321	- .262	.169	.337	- .964	20	1412	- .186	.124	.171	-1 .720	20	1503	- .245	.156	.251	-1 .051
20	1322	- .324	.190	.401	-1 .441	20	1413	- .175	.140	.238	-1 .135	20	1504	- .249	.154	.461	- .624
20	1323	- .216	.197	.539	-1 .053	20	1414	- .179	.142	.229	-1 .253	20	1505	- .256	.157	.454	- .624
20	1324	- .150	.185	.639	- .892	20	1415	- .217	.151	.244	- .841	20	1506	- .179	.141	.303	- .624
20	1325	- .097	.197	.762	-1 .183	20	1416	- .202	.149	.242	- .855	20	1507	- .170	.138	.304	- .624
20	1326	- .349	.178	.223	-1 .221	20	1417	- .190	.143	.274	- .808	20	1508	- .207	.140	.276	- .624
20	1327	- .309	.185	.329	-1 .151	20	1418	- .225	.149	.206	- .998	20	1509	- .218	.142	.212	- .624
20	1328	- .223	.190	.907	-1 .001	20	1419	- .187	.134	.275	- .890	20	1510	- .241	.149	.220	- .624
20	1329	- .142	.189	.876	-1 .791	20	1420	- .212	.147	.259	- .941	20	1511	- .244	.152	.219	- .624
20	1330	- .091	.205	.826	-1 .275	20	1421	- .205	.146	.268	-1 .032	20	1512	- .248	.156	.230	- .624
20	1331	- .275	.175	.262	-1 .055	20	1422	- .214	.141	.249	-1 .056	20	1513	- .169	.125	.222	- .624
20	1332	- .240	.154	.415	-1 .019	20	1423	- .215	.141	.219	- .884	20	1514	- .198	.125	.222	- .624
20	1333	- .216	.169	.456	-1 .152	20	1424	- .213	.150	.206	-1 .225	20	1515	- .181	.124	.240	- .624
20	1334	- .119	.163	.559	- .760	20	1425	- .227	.154	.258	-1 .001	20	1516	- .204	.132	.232	- .624
20	1335	- .107	.188	.763	- .954	20	1426	- .234	.160	.300	-1 .086	20	1517	- .224	.139	.244	- .624
20	1336	- .222	.125	.202	- .736	20	1427	- .221	.155	.293	- .875	20	1518	- .234	.142	.309	- .624
20	1337	- .202	.126	.225	- .698	20	1428	- .218	.150	.233	- .845	20	1519	- .184	.133	.218	- .624
20	1338	- .160	.127	.339	- .760	20	1429	- .221	.157	.233	-1 .361	20	1520	- .183	.130	.195	- .624
20	1339	- .134	.126	.314	- .809	20	1430	- .242	.145	.302	- .844	20	1521	- .185	.134	.219	- .624
20	1340	- .143	.123	.293	- .603	20	1431	- .233	.145	.314	- .969	20	1522	- .179	.134	.235	- .624
20	1341	- .151	.111	.171	- .694	20	1432	- .217	.141	.308	- .674	20	1523	- .170	.134	.218	- .624
20	1342	- .130	.110	.186	- .593	20	1433	- .221	.143	.308	- .745	20	1524	- .178	.136	.203	- .624
20	1344	- .135	.107	.289	- .513	20	1434	- .229	.147	.217	-1 .024	20	1525	- .172	.123	.241	- .624
20	1345	- .111	.104	.299	- .457	20	1435	- .242	.146	.300	-1 .088	20	1526	- .183	.122	.205	- .624
20	1346	- .105	.097	.227	- .484	20	1436	- .219	.135	.178	-1 .091	20	1527	- .179	.120	.205	- .624
20	1347	- .111	.096	.221	- .461	20	1437	- .241	.139	.275	- .781	20	1528	- .170	.120	.193	- .624
20	1348	- .124	.102	.272	- .509	20	1438	- .211	.132	.235	- .717	20	1529	- .170	.122	.200	- .624
20	1349	- .092	.099	.276	- .445	20	1439	- .205	.139	.215	- .779	20	1530	- .184	.126	.205	- .624
20	1350	- .060	.098	.285	- .387	20	1440	- .204	.145	.266	-1 .089	20	1531	- .188	.133	.200	- .624
20	1351	- .102	.096	.283	- .420	20	1441	- .185	.126	.241	- .735	20	1532	- .181	.131	.201	- .624
20	1352	- .126	.105	.248	- .528	20	1442	- .169	.118	.250	- .567	20	1533	- .174	.128	.206	- .624

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	1534	172	128	204	639	20	1622	198	143	195	762	20	1728	254	175	469	909
20	1535	187	120	231	546	20	1623	194	134	313	737	20	1729	268	168	239	608
20	1536	193	123	225	631	20	1624	235	160	225	287	20	1730	277	164	277	012
20	1537	189	125	250	662	20	1625	217	145	235	941	20	1731	175	179	569	890
20	1538	172	121	283	626	20	1626	210	135	235	776	20	1732	205	161	478	814
20	1539	173	116	263	680	20	1627	221	134	231	921	20	1733	258	162	351	962
20	1540	173	126	258	650	20	1628	230	138	304	850	20	1734	288	158	331	970
20	1541	165	126	289	588	20	1629	233	144	208	132	20	1735	351	167	175	019
20	1542	169	128	275	596	20	1630	196	147	263	921	20	1736	224	157	414	835
20	1543	176	127	264	617	20	1631	202	138	257	825	20	1737	223	146	476	750
20	1544	185	126	267	618	20	1632	199	143	279	938	20	1738	244	148	201	919
20	1545	167	122	229	582	20	1633	213	151	273	885	20	1739	245	145	205	873
20	1546	152	116	295	565	20	1634	239	157	237	991	20	1740	257	147	254	872
20	1547	151	118	289	544	20	1635	204	140	208	771	20	1741	175	149	374	670
20	1548	177	122	270	598	20	1636	216	138	172	792	20	1742	248	150	251	334
20	1549	136	114	231	535	20	1637	191	131	206	621	20	1743	239	143	213	87
20	1550	129	124	295	573	20	1638	203	138	194	019	20	1744	213	144	244	899
20	1551	143	125	276	579	20	1639	213	140	196	929	20	1801	189	233	880	791
20	1552	126	123	295	570	20	1640	183	134	235	911	20	1802	160	254	911	614
20	1553	146	114	269	521	20	1641	200	141	215	854	20	1803	141	274	054	619
20	1554	126	115	234	546	20	1642	217	134	187	777	20	1804	185	289	107	362
20	1555	125	115	244	546	20	1643	201	137	220	815	20	1805	211	222	755	204
20	1556	144	117	239	572	20	1644	193	143	276	817	20	1806	189	238	821	58
20	1557	160	118	238	596	20	1701	230	164	234	080	20	1807	167	246	802	323
20	1558	137	113	243	537	20	1702	200	172	338	055	20	1808	194	258	044	302
20	1559	122	111	271	533	20	1703	221	191	406	231	20	1809	210	267	087	577
20	1560	130	122	286	522	20	1704	194	212	995	102	20	1810	218	212	765	149
20	1561	083	120	328	461	20	1705	197	206	670	028	20	1811	175	233	862	116
20	1562	117	123	295	539	20	1706	229	191	909	034	20	1812	105	252	236	194
20	1601	265	164	338	949	20	1707	259	190	694	381	20	1813	207	266	802	130
20	1602	251	161	330	005	20	1708	259	184	731	491	20	1814	215	256	800	010
20	1603	289	174	288	295	20	1709	266	180	347	052	20	1815	200	205	768	192
20	1604	299	187	181	539	20	1710	291	186	362	098	20	1816	168	219	872	191
20	1605	216	164	239	031	20	1711	182	195	714	855	20	1817	210	251	833	162
20	1606	239	172	301	172	20	1712	221	170	480	046	20	1818	193	247	054	343
20	1607	238	161	343	069	20	1713	270	170	335	075	20	1819	191	248	740	575
20	1608	225	178	335	442	20	1714	249	166	271	991	20	1820	170	215	725	220
20	1609	281	187	325	388	20	1715	288	170	287	102	20	1821	192	228	601	591
20	1610	247	152	267	054	20	1716	168	181	638	961	20	1822	135	286	039	733
20	1611	230	144	263	994	20	1717	184	174	574	071	20	1823	132	285	910	428
20	1612	254	155	291	104	20	1718	214	181	397	324	20	1824	145	273	798	478
20	1613	287	171	212	315	20	1719	243	164	285	808	20	1825	205	195	554	465
20	1614	292	173	231	384	20	1720	287	161	245	487	20	1826	112	216	701	585
20	1615	192	143	226	045	20	1721	153	190	644	951	20	1827	061	292	082	623
20	1616	187	141	233	868	20	1722	174	179	521	845	20	1828	076	308	126	541
20	1617	177	143	253	870	20	1723	235	190	709	950	20	1829	144	311	087	435
20	1618	193	150	252	170	20	1724	269	169	444	003	20	1830	180	180	652	105
20	1619	232	152	206	056	20	1725	257	160	232	004	20	1831	107	226	736	322
20	1620	210	148	185	140	20	1726	195	170	689	066	20	1832	056	289	773	488
20	1621	197	142	188	104	20	1727	203	173	697	892	20	1833	124	319	807	233

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2000	18334	040	281	402	-2
2000	18333	040	163	511	-1
2000	18332	040	176	595	-1
2000	18331	040	183	560	-1
2000	18330	040	280	985	-1
2000	18329	030	239	1666	1
2000	18328	040	135	355	-1
2000	18411	108	145	431	-1
2000	18410	033	184	827	-1
2000	18412	028	195	902	-1
2000	18444	040	228	929	-1
2000	18445	096	158	545	-1
2000	18446	069	153	527	-1
2000	18447	089	160	582	-1
2000	18448	109	172	678	-1
2000	18449	144	173	673	-1
2000	18450	099	108	254	-1
2000	18451	110	142	398	-1
2000	18452	150	151	442	-1
2000	18453	130	148	498	-1
2000	19001	204	185	553	-1
2000	19002	299	184	332	-1
2000	19003	264	192	298	-1
2000	19004	229	164	357	-1
2000	19005	182	188	569	-1
2000	19006	247	183	378	-1
2000	19007	251	184	361	-1
2000	19008	209	209	637	-2
2000	19009	214	208	854	-1
2000	19010	221	143	232	-1
2000	19011	220	240	783	-1
2000	19012	224	134	197	-1
2000	19013	201	163	328	-1
2000	19014	279	196	595	-1
2000	19015	042	217	823	-1
2000	19016	223	132	239	-1
2000	19017	191	198	550	-1
2000	19018	169	265	057	1
2000	19019	269	173	209	-1
2000	19020	310	212	250	-1
2000	19021	088	229	122	1
2000	19022	044	220	468	-1
2000	19023	055	181	337	-1
2000	19024	066	190	634	-1
2000	19025	077	187	308	-1
2000	19026	088	230	890	-1
2000	19027	099	170	447	-1
2000	19028	100	193	617	-1
2000	19029	101	117	334	-1

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2000	22302	067	118	333	-1
2000	22303	074	118	311	-1
2000	22304	079	119	331	-1
2000	22305	071	119	333	-1
2000	22306	067	111	333	-1
2000	22307	075	123	326	-1
2000	22308	082	124	364	-1
2000	22309	081	126	355	-1
2000	22310	090	128	360	-1
2000	22311	147	111	188	-1
2000	22312	168	113	173	-1
2000	22313	116	119	288	-1
2000	22314	106	121	311	-1
2000	22315	130	116	258	-1
2000	22316	120	113	254	-1
2000	22317	133	114	252	-1
2000	22318	174	119	238	-1
2000	22319	144	119	253	-1
2000	22320	170	123	221	-1
2000	22321	144	119	222	-1
2000	22322	066	121	333	-1
2000	22323	054	122	324	-1
2000	22324	048	121	406	-1
2000	22325	061	110	438	-1
2000	22326	039	110	338	-1
2000	22327	033	110	344	-1
2000	22328	044	110	341	-1
2000	22329	048	112	351	-1
2000	22330	087	121	334	-1
2000	22331	085	118	293	-1
2000	22332	150	111	275	-1
2000	22333	170	134	259	-1
2000	22334	157	135	276	-1
2000	22335	109	114	284	-1
2000	22336	122	106	238	-1
2000	22337	097	105	290	-1
2000	22338	137	109	248	-1
2000	22339	091	102	217	-1
2000	22340	110	109	244	-1
2000	22341	145	113	221	-1
2000	22342	091	109	250	-1
2000	22343	084	115	283	-1
2000	22344	152	114	287	-1
2000	22345	097	097	178	-1
2000	22346	095	095	227	-1
2000	22347	093	095	264	-1
2000	22348	121	093	241	-1
2000	22349	134	098	252	-1

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2000	22430	094	096	280	-1
2000	22431	071	095	306	-1
2000	22432	077	094	286	-1
2000	22433	091	103	268	-1
2000	22434	073	102	282	-1
2000	22435	053	102	320	-1
2000	22501	043	120	409	-1
2000	22502	050	110	302	-1
2000	22503	052	112	318	-1
2000	22504	044	117	335	-1
2000	22505	033	116	340	-1
2000	22506	039	115	321	-1
2000	22507	044	113	369	-1
2000	22508	041	113	327	-1
2000	22509	034	111	326	-1
2000	22510	042	112	330	-1
2000	22511	173	133	302	-1
2000	22512	126	128	347	-1
2000	22513	155	108	208	-1
2000	22514	116	131	358	-1
2000	22515	152	136	324	-1
2000	22516	080	121	339	-1
2000	22517	099	121	355	-1
2000	22518	133	125	322	-1
2000	22519	097	121	350	-1
2000	22520	102	121	307	-1
2000	22521	138	118	240	-1
2000	22522	096	113	266	-1
2000	22523	096	114	277	-1
2000	22524	083	113	301	-1
2000	22525	126	116	269	-1
2000	22526	098	127	317	-1
2000	22527	101	114	345	-1
2000	22528	109	115	341	-1
2000	22529	111	115	329	-1
2000	22530	103	115	331	-1
2000	22531	048	115	324	-1
2000	22532	054	117	313	-1
2000	22533	071	128	397	-1
2000	22534	075	128	341	-1
2000	22535	052	127	356	-1
2000	22536	052	125	370	-1
2000	22537	045	128	456	-1
2000	22538	055	126	357	-1
2000	22539	057	128	348	-1
2000	22540	112	132	358	-1
2000	22541	128	110	236	-1
2000	22542	118	109	236	-1
2000	22543	158	115	240	-1
2000	22544	097	112	271	-1

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	2716	.152	.120	.308	-.634	20	2737	-.118	.128	.359	-.698	20	2924	-.067	.131	.434	-.640
20	2717	.108	.116	.336	-.521	20	2738	-.114	.128	.331	-.662	20	2925	-.076	.128	.339	-.660
20	2718	.120	.123	.262	-.568	20	2739	-.107	.134	.259	-.527	20	2926	-.150	.135	.343	-.708
20	2719	.115	.123	.267	-.560	20	28001	-.014	.137	.581	-.585	20	2927	-.171	.136	.332	-.732
20	2720	.102	.116	.303	-.595	20	28002	-.050	.147	.713	-.483	20	2928	-.163	.133	.335	-.706
20	2721	.108	.128	.304	-.520	20	28003	-.007	.160	.821	-.502	20	2930	-.036	.113	.373	-.416
20	2722	.092	.127	.336	-.500	20	28004	-.050	.143	.511	-.607	20	2931	-.104	.112	.288	-.619
20	2723	.145	.132	.276	-.573	20	28005	-.033	.121	.363	-.491	20	2932	-.134	.103	.256	-.614
20	2724	.048	.110	.305	-.414	20	28006	-.024	.139	.511	-.494	20	2933	-.123	.096	.396	-.499
20	2725	.101	.122	.306	-.628	20	28007	-.006	.150	.712	-.520	20	2934	-.099	.095	.280	-.469
20	2726	.104	.123	.292	-.613	20	28008	-.066	.164	.738	-.805	20	2935	-.117	.099	.279	-.507
20	2727	.113	.129	.269	-.519	20	28009	-.148	.150	.300	-.966	30	1101	.118	.336	1.478	-.768
20	2728	.116	.129	.263	-.524	20	28010	-.163	.122	.242	-.593	30	1102	.084	.301	1.291	-.886
20	2729	.101	.124	.349	-.518	20	28011	-.112	.119	.264	-.534	30	1103	.079	.301	1.095	-.825
20	2730	.065	.127	.370	-.579	20	28012	-.106	.133	.454	-.591	30	1104	-.021	.189	1.095	-.754
20	2732	.071	.127	.366	-.613	20	28013	-.112	.147	.416	-.625	30	1105	-.107	.190	.783	-.760
20	2733	.074	.129	.324	-.776	20	28014	-.190	.149	.412	-.671	30	1106	-.036	.296	1.339	-.408
20	2734	.163	.125	.181	-.706	20	28015	-.140	.117	.232	-.512	30	1107	.001	.334	1.212	-.479
20	2735	.093	.133	.306	-.632	20	28016	-.119	.117	.256	-.508	30	1108	.083	.329	1.477	-.234
20	2736	.045	.128	.402	-.525	20	28017	-.150	.129	.308	-.556	30	1109	.080	.222	1.071	-.937
20	2737	.031	.130	.446	-.503	20	28018	-.121	.135	.319	-.620	30	1110	.106	.216	1.112	-.834
20	2738	.104	.116	.339	-.534	20	28019	-.161	.143	.493	-.582	30	1111	.119	.215	1.070	-.776
20	2739	.073	.132	.337	-.537	20	28020	-.135	.132	.248	-.561	30	1112	.019	.168	.737	-.973
20	2740	.074	.133	.332	-.593	20	28021	-.122	.133	.289	-.545	30	1113	.032	.273	.919	-.466
20	2741	.070	.129	.335	-.576	20	28022	-.106	.136	.399	-.523	30	1114	.074	.297	1.182	-.891
20	2742	.059	.121	.372	-.572	20	28023	-.142	.127	.368	-.555	30	1115	.089	.271	1.069	-.775
20	2743	.118	.118	.241	-.603	20	28024	-.160	.130	.350	-.606	30	1116	.129	.223	1.092	-.495
20	2744	.111	.114	.363	-.532	20	29001	-.147	.120	.204	-.515	30	1117	.239	.272	1.454	-.639
20	2745	.181	.132	.209	-.699	20	29002	-.149	.120	.208	-.535	30	1118	.057	.192	.856	-.798
20	2746	.153	.129	.221	-.585	20	29003	-.126	.122	.313	-.578	30	1119	.006	.234	.900	-.060
20	2747	.149	.128	.244	-.527	20	29004	-.149	.123	.313	-.624	30	1120	.022	.290	1.113	-.079
20	2748	.154	.117	.187	-.853	20	29005	-.134	.123	.299	-.617	30	1121	.053	.247	.899	-.921
20	2749	.165	.128	.231	-.597	20	29006	-.133	.122	.295	-.606	30	1122	.013	.240	.776	-.534
20	2750	.125	.134	.244	-.546	20	29007	-.166	.125	.339	-.679	30	1123	.030	.239	.886	-.196
20	2751	.132	.131	.270	-.498	20	29008	-.154	.124	.341	-.674	30	1124	.011	.211	.823	-.752
20	2752	.132	.130	.252	-.577	20	29009	-.091	.120	.320	-.458	30	1125	.073	.257	.939	-.951
20	2753	.174	.123	.211	-.572	20	29010	-.082	.122	.318	-.480	30	1126	.103	.279	1.040	-.058
20	2754	.132	.119	.261	-.503	20	29011	-.101	.124	.338	-.504	30	1127	.100	.208	1.058	-.689
20	2755	.101	.124	.235	-.775	20	29012	-.079	.118	.300	-.554	30	1128	.054	.176	.832	-.519
20	2756	.120	.125	.220	-.717	20	29013	-.088	.126	.340	-.573	30	1129	.088	.187	.896	-.670
20	2757	.117	.124	.227	-.702	20	29014	-.066	.112	.291	-.474	30	1130	.023	.167	.666	-.646
20	2758	.145	.127	.302	-.607	20	29015	-.072	.129	.328	-.651	30	1131	.096	.231	.949	-.152
20	2759	.148	.127	.293	-.626	20	29016	-.094	.130	.353	-.732	30	1132	.133	.286	1.354	-.261
20	2760	.144	.128	.295	-.635	20	29017	-.127	.127	.402	-.657	30	1133	.134	.222	1.159	-.729
20	2761	.095	.124	.334	-.531	20	29018	-.048	.123	.344	-.579	30	1134	.083	.190	1.048	-.601
20	2762	.100	.133	.307	-.535	20	29019	-.085	.133	.336	-.681	30	1135	.118	.202	1.224	-.501
20	2763	.108	.129	.341	-.549	20	29020	-.102	.131	.294	-.690	30	1136	.024	.170	.813	-.664
20	2764	.114	.129	.302	-.554	20	29021	-.097	.132	.379	-.902	30	1137	.082	.205	.782	-.707
20	2765	.143	.131	.268	-.666	20	29022	-.079	.140	.460	-.831	30	1138	.118	.218	.837	-.872
20	2766	.161	.135	.262	-.669	20	29023	-.058	.126	.338	-.599	30	1139	.097	.177	.715	-.449

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	1140	.065	.158	.643	-.475	30	1224	-.321	.241	.670	-1.661	30	1315	-.137	.176	.648	-1.258
30	1141	.100	.203	.269	-.726	30	1225	-.384	.235	.562	-1.395	30	1316	-.289	.173	.288	-1.005
30	1142	.006	.175	.058	-.645	30	1226	-.384	.242	.583	-1.407	30	1317	-.279	.168	.332	-1.046
30	1143	.141	.239	.071	-.604	30	1227	-.352	.266	.613	-1.871	30	1318	-.267	.171	.254	-.913
30	1144	.189	.250	.146	-.588	30	1228	-.301	.263	.559	-1.736	30	1319	-.254	.179	.442	-1.308
30	1145	.124	.218	.009	-.487	30	1229	-.315	.260	.411	-1.954	30	1320	-.242	.190	.671	-1.111
30	1146	.108	.193	.009	-.454	30	1230	-.397	.238	.497	-1.303	30	1321	-.298	.164	.429	-.988
30	1147	.123	.184	.044	-.543	30	1231	-.370	.262	.563	-1.645	30	1322	-.287	.161	.426	-.944
30	1148	.024	.163	.656	-.766	30	1232	-.313	.293	.563	-1.608	30	1323	-.275	.171	.487	-.993
30	1149	.012	.197	.695	-.861	30	1233	-.260	.258	.743	-1.883	30	1324	-.261	.170	.318	-1.039
30	1150	.036	.205	.796	-.687	30	1234	-.310	.258	.439	-2.084	30	1325	-.252	.203	.422	-1.710
30	1151	.017	.169	.625	-.512	30	1235	-.368	.249	.559	-1.510	30	1326	-.299	.180	.252	-1.263
30	1152	.000	.161	.636	-.692	30	1236	-.374	.262	.479	-2.113	30	1327	-.293	.176	.186	-1.323
30	1153	.038	.169	.785	-.595	30	1237	-.345	.311	.559	-2.113	30	1328	-.303	.181	.252	-1.343
30	1154	.044	.156	.633	-.619	30	1238	-.260	.254	.430	-1.602	30	1329	-.281	.188	.447	-1.223
30	1155	.128	.168	.788	-.882	30	1239	-.315	.250	.288	-2.495	30	1330	-.259	.198	.681	-1.434
30	1156	.137	.183	.933	-.747	30	1240	-.339	.259	.454	-1.714	30	1331	-.306	.191	.307	-1.145
30	1157	.127	.141	.472	-.660	30	1241	-.304	.242	.432	-1.500	30	1332	-.273	.178	.247	-1.113
30	1158	.143	.135	.666	-.820	30	1242	-.225	.240	.430	-1.580	30	1333	-.300	.190	.266	-1.161
30	1159	.059	.133	.561	-.458	30	1243	-.157	.188	.547	-1.542	30	1334	-.239	.195	.650	-1.114
30	1160	.065	.124	.406	-.888	30	1244	-.176	.166	.344	-1.924	30	1335	-.267	.195	.272	-1.724
30	1161	.061	.138	.479	-.681	30	1245	-.182	.184	.371	-1.300	30	1336	-.318	.163	.101	-1.164
30	1162	.109	.144	.422	-.560	30	1246	-.180	.173	.305	-1.660	30	1337	-.293	.155	.114	-1.053
30	1163	.092	.126	.343	-.544	30	1247	-.156	.171	.447	-1.154	30	1338	-.262	.159	.133	-1.135
30	1164	.095	.128	.352	-.548	30	1248	-.094	.142	.449	-1.590	30	1339	-.261	.154	.119	-.834
30	1165	.094	.131	.388	-.222	30	1249	-.133	.137	.328	-.552	30	1340	-.286	.170	.209	-1.629
30	1166	.109	.133	.332	-.563	30	1250	-.099	.126	.307	-.550	30	1341	-.277	.140	.175	-1.038
30	1201	.249	.267	.875	-.636	30	1251	-.136	.133	.304	-.599	30	1342	-.256	.146	.177	-1.160
30	1202	.281	.255	.799	-.610	30	1252	-.098	.128	.322	-.560	30	1344	-.211	.149	.206	-.976
30	1203	.188	.226	.747	-.450	30	1253	-.080	.138	.478	-.538	30	1345	-.160	.141	.226	-1.093
30	1204	.187	.218	.645	-.350	30	1254	-.115	.140	.431	-.572	30	1346	-.160	.122	.215	-.582
30	1205	.388	.262	.623	-.886	30	1255	-.085	.130	.494	-.526	30	1347	-.182	.126	.185	-.709
30	1206	.366	.260	.664	-.848	30	1256	-.045	.127	.494	-.468	30	1348	-.201	.120	.183	-.652
30	1207	.382	.278	.532	-.855	30	1257	-.038	.147	.502	-.509	30	1349	-.142	.116	.224	-.574
30	1208	.363	.250	.353	-.748	30	1258	-.057	.126	.511	-.462	30	1350	-.085	.111	.316	-.503
30	1209	.349	.251	.393	-.673	30	1259	-.112	.147	.511	-.582	30	1351	-.147	.105	.189	-.572
30	1210	.211	.209	.418	-.623	30	1301	-.360	.213	.300	-1.540	30	1352	-.181	.112	.232	-.570
30	1211	.284	.227	.440	-.804	30	1302	-.320	.198	.276	-1.599	30	1353	-.149	.111	.255	-.543
30	1212	.215	.236	.472	-.567	30	1303	-.318	.200	.233	-1.207	30	1354	-.085	.103	.287	-.426
30	1213	.193	.229	.752	-.219	30	1304	-.151	.153	.337	-.845	30	1355	-.174	.146	.468	-.676
30	1214	.193	.239	.529	-.472	30	1305	-.170	.174	.328	-1.063	30	1356	-.145	.143	.332	-.625
30	1215	.328	.217	.396	-.481	30	1306	-.131	.147	.388	-.806	30	1357	-.171	.135	.252	-.678
30	1216	.260	.158	.320	-.729	30	1307	-.119	.150	.325	-.815	30	1358	-.148	.132	.243	-.657
30	1217	.343	.239	.552	-.550	30	1308	-.163	.161	.488	-.963	30	1359	-.112	.124	.295	-.536
30	1218	.321	.237	.580	-.828	30	1309	-.176	.186	.715	-.134	30	1360	-.092	.126	.305	-.492
30	1219	.329	.243	.597	-.992	30	1310	-.138	.189	.597	-1.072	30	1401	-.158	.168	.280	-1.074
30	1220	.343	.231	.475	-.825	30	1311	-.157	.162	.445	-.948	30	1402	-.140	.164	.294	-1.033
30	1221	.346	.240	.571	-.523	30	1312	-.200	.159	.270	-.800	30	1403	-.187	.169	.331	-.215
30	1222	.323	.255	.792	-.711	30	1313	-.162	.160	.505	-.744	30	1404	-.153	.169	.354	-1.244
30	1223	.292	.236	.519	-.290	30	1314	-.275	.177	.553	-.935	30	1405	-.155	.174	.274	-1.179



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0000	1406	135	165	271	979	30	1456	138	125	200	535	30	1547	153	126	227	635
0000	1407	179	168	243	206	30	1457	137	121	312	608	30	1548	174	130	233	683
0000	1408	139	162	274	016	30	1458	144	121	324	520	30	1549	166	119	285	599
0000	1409	144	151	322	879	30	1459	161	123	306	540	30	1550	151	116	325	583
0000	1410	151	151	349	873	30	1501	115	152	437	632	30	1551	160	117	306	613
0000	1411	192	150	335	057	30	1502	097	149	450	668	30	1552	153	115	313	568
0000	1412	173	112	171	692	30	1503	264	147	210	977	30	1553	153	123	255	672
0000	1413	106	140	374	607	30	1504	247	157	260	012	30	1554	129	122	359	512
0000	1414	101	141	378	613	30	1505	252	159	326	048	30	1555	131	122	355	505
0000	1415	235	157	205	930	30	1506	127	149	296	189	30	1556	148	123	335	528
0000	1416	233	151	232	938	30	1507	112	145	315	104	30	1557	164	125	325	545
0000	1417	207	141	287	056	30	1508	173	146	275	999	30	1558	138	112	255	514
0000	1418	210	141	328	749	30	1509	225	144	249	854	30	1559	128	111	252	503
0000	1419	227	141	209	876	30	1510	240	148	282	849	30	1560	136	117	261	536
0000	1420	257	158	236	894	30	1511	246	149	260	887	30	1561	093	115	298	493
0000	1421	237	150	228	835	30	1512	249	154	268	831	30	1562	135	121	322	506
0000	1422	213	133	168	800	30	1513	097	129	370	675	30	1600	282	176	299	145
0000	1423	215	138	141	769	30	1514	155	133	341	616	30	1602	278	178	309	225
0000	1424	232	143	135	989	30	1515	109	129	367	550	30	1603	341	202	271	300
0000	1425	241	155	248	847	30	1516	223	133	159	755	30	1604	347	201	321	469
0000	1426	229	149	310	897	30	1517	236	137	174	825	30	1605	153	164	379	911
0000	1427	211	138	280	733	30	1518	253	155	268	926	30	1606	200	175	358	981
0000	1428	234	143	230	791	30	1519	194	134	334	725	30	1607	236	185	249	078
0000	1429	255	144	235	777	30	1520	184	133	339	718	30	1608	175	165	426	957
0000	1430	231	149	181	012	30	1521	163	132	283	704	30	1609	265	178	380	048
0000	1431	217	144	205	043	30	1522	154	133	298	825	30	1610	250	157	190	933
0000	1432	218	135	205	043	30	1523	165	136	318	885	30	1611	233	150	191	923
0000	1433	208	134	184	853	30	1524	164	136	333	882	30	1612	257	158	316	155
0000	1434	220	143	236	055	30	1525	183	121	195	579	30	1613	314	166	156	180
0000	1435	213	153	380	157	30	1526	171	133	274	598	30	1614	327	170	151	273
0000	1436	244	131	179	836	30	1527	167	132	280	613	30	1615	212	147	246	817
0000	1437	200	145	382	161	30	1528	181	135	285	610	30	1616	205	144	265	828
0000	1438	186	138	385	817	30	1529	170	135	316	633	30	1617	210	142	252	655
0000	1439	219	135	167	830	30	1530	161	121	216	560	30	1618	222	153	345	870
0000	1440	215	152	268	030	30	1531	172	133	209	676	30	1619	219	161	304	909
0000	1441	191	133	167	784	30	1532	162	131	228	618	30	1620	189	147	233	003
0000	1442	175	124	188	755	30	1533	176	132	223	648	30	1621	198	141	195	901
0000	1443	182	124	212	818	30	1534	163	131	219	648	30	1622	186	139	242	792
0000	1444	172	127	217	919	30	1535	162	125	293	694	30	1623	192	150	248	886
0000	1445	157	135	329	669	30	1536	164	127	288	643	30	1624	220	161	267	962
0000	1446	135	131	318	634	30	1537	182	125	293	720	30	1625	209	148	296	279
0000	1447	133	129	303	678	30	1538	187	125	254	750	30	1626	194	139	308	795
0000	1448	148	127	288	620	30	1539	175	120	257	713	30	1627	180	146	246	869
0000	1449	138	129	294	622	30	1540	166	119	219	560	30	1628	186	150	265	782
0000	1450	138	123	261	575	30	1541	157	119	256	570	30	1629	213	160	307	870
0000	1451	133	123	265	582	30	1542	181	123	230	614	30	1630	208	144	223	880
0000	1452	126	120	280	571	30	1543	180	115	197	578	30	1631	199	143	262	870
0000	1453	132	111	242	519	30	1544	183	115	207	601	30	1632	178	142	243	796
0000	1454	141	111	245	519	30	1545	169	113	228	558	30	1633	187	147	233	776
0000	1455	146	098	195	460	30	1546	154	125	232	613	30	1634	212	153	233	104

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	1635	-.217	.158	.197	-1.200	300	1741	-.160	.139	.316	-.699	300	1847	-.047	.161	.569	-.636
300	1636	-.224	.154	.191	-.977	300	1742	-.263	.152	.188	-1.029	300	1848	-.050	.182	.832	-.558
300	1637	-.197	.143	.231	-.873	300	1743	-.257	.164	.360	-1.144	300	1849	-.089	.191	.935	-.605
300	1638	-.196	.148	.341	-.683	300	1744	-.215	.153	.288	-.849	300	1850	-.097	.129	.322	-.612
300	1639	-.208	.149	.339	-.669	300	1801	-.091	.258	.993	-1.093	300	1851	-.095	.144	.440	-.587
300	1640	-.191	.141	.258	-.768	300	1802	-.024	.305	1.237	-.847	300	1852	-.084	.144	.433	-.612
300	1641	-.213	.136	.196	-.762	300	1803	-.117	.357	1.647	-.996	300	1853	-.130	.155	.580	-.802
300	1642	-.217	.148	.247	-.824	300	1804	-.089	.368	1.399	-1.422	300	1854	-.112	.150	.550	-.700
300	1643	-.210	.153	.268	-.901	300	1805	-.075	.225	1.011	-1.071	300	1901	-.174	.159	.348	-.730
300	1644	-.196	.140	.243	-.919	300	1806	-.023	.267	1.004	-1.036	300	1902	-.324	.194	.373	-1.233
300	1701	-.180	.182	.439	-.932	300	1807	-.094	.309	1.200	-1.437	300	1903	-.294	.227	.445	-1.831
300	1702	-.212	.200	.408	-1.206	300	1808	-.115	.341	1.412	-1.465	300	1904	-.194	.175	.287	-1.250
300	1703	-.337	.288	.490	-1.642	300	1809	-.071	.329	1.224	-1.485	300	1905	-.194	.175	.287	-1.250
300	1704	-.088	.251	.947	-1.057	300	1810	-.097	.194	1.606	-1.016	300	1906	-.218	.201	.467	-1.618
300	1705	-.150	.235	1.171	-1.177	300	1811	-.026	.242	1.926	-.819	300	1908	-.171	.188	.430	-1.024
300	1706	-.283	.195	.501	-1.071	300	1812	-.180	.282	1.160	-.785	300	1909	-.256	.269	.472	-2.209
300	1707	-.376	.210	.444	-1.343	300	1813	-.220	.332	1.615	-1.025	300	1910	-.215	.235	.805	-1.581
300	1708	-.403	.220	.222	-1.319	300	1814	-.200	.332	1.632	-1.074	300	1911	-.256	.132	.187	-1.792
300	1709	-.388	.217	.274	-1.904	300	1815	-.080	.177	1.800	-.832	300	1912	-.212	.243	1.241	-1.578
300	1710	-.388	.214	.372	-1.774	300	1816	-.044	.213	1.908	-.787	300	1913	-.246	.146	.237	-1.786
300	1711	-.181	.224	.903	-1.071	300	1817	-.182	.286	1.207	-.742	300	1914	-.161	.194	.643	-1.168
300	1712	-.313	.213	.791	-1.067	300	1818	-.200	.318	1.315	-1.733	300	1915	-.370	.228	.644	-1.439
300	1713	-.359	.209	.559	-1.213	300	1819	-.136	.307	1.122	-1.005	300	1916	-.114	.266	1.457	-1.762
300	1714	-.288	.185	.284	-1.066	300	1820	-.052	.177	1.651	-.913	300	1917	-.246	.138	.244	-1.752
300	1715	-.333	.187	.387	-1.074	300	1821	-.042	.185	1.735	-.616	300	1918	-.197	.246	.807	-1.310
300	1716	-.090	.224	.726	-1.047	300	1822	-.165	.250	1.119	-.647	300	1919	-.091	.321	1.333	-1.999
300	1717	-.237	.222	.683	-1.109	300	1823	-.201	.294	1.094	-.661	300	1920	-.268	.167	.329	-1.245
300	1718	-.285	.220	.529	-1.310	300	1824	-.178	.294	1.075	-.690	300	1921	-.377	.255	.324	-1.789
300	1719	-.342	.213	.503	-1.605	300	1825	-.063	.151	1.545	-.563	300	1922	-.417	.270	.561	-1.387
300	1720	-.332	.185	.297	-1.026	300	1826	-.052	.173	1.700	-.490	300	1924	-.479	.307	.633	-2.067
300	1721	-.147	.235	.814	-1.266	300	1827	-.187	.232	1.910	-.630	300	1925	-.296	.185	.319	-1.067
300	1722	-.211	.224	.661	-1.140	300	1828	-.216	.264	1.034	-.625	300	1926	-.327	.211	.631	-1.755
300	1723	-.290	.212	.533	-1.193	300	1829	-.202	.265	1.054	-.606	300	1927	-.318	.252	.469	-1.695
300	1724	-.309	.179	.332	-1.092	300	1830	-.102	.155	1.454	-.688	300	1928	-.185	.267	.950	-1.218
300	1725	-.299	.176	.341	-.949	300	1831	-.025	.189	1.873	-.688	300	1929	-.193	.188	.561	-.949
300	1726	-.180	.196	.548	-.994	300	1832	-.174	.236	1.006	-.512	300	1930	-.324	.254	.588	-1.472
300	1727	-.255	.210	.579	-1.085	300	1833	-.214	.263	1.142	-.847	300	2301	-.076	.112	.277	-.523
300	1728	-.320	.199	.428	-1.301	300	1834	-.229	.272	1.319	-.937	300	2302	-.091	.113	.267	-.539
300	1729	-.342	.177	.229	-1.083	300	1835	-.112	.154	1.518	-.639	300	2303	-.092	.119	.309	-.480
300	1730	-.304	.160	.198	-.947	300	1836	-.018	.183	1.774	-.590	300	2304	-.091	.120	.306	-.467
300	1731	-.159	.192	.572	-.857	300	1837	-.141	.175	1.712	-.602	300	2305	-.084	.120	.288	-.457
300	1732	-.240	.193	.486	-.872	300	1838	-.221	.252	1.191	-.887	300	2306	-.079	.112	.249	-.446
300	1733	-.306	.187	.374	-1.004	300	1839	-.188	.269	1.490	-.785	300	2307	-.076	.106	.336	-.432
300	1734	-.331	.174	.156	-.980	300	1840	-.119	.150	1.449	-.730	300	2308	-.084	.107	.339	-.431
300	1735	-.329	.161	.242	-1.049	300	1841	-.085	.160	1.542	-.640	300	2309	-.082	.108	.332	-.448
300	1736	-.214	.171	.600	-.916	300	1842	-.042	.191	1.846	-.643	300	2310	-.093	.110	.375	-.465
300	1737	-.227	.160	.363	-.767	300	1843	-.106	.207	1.159	-.505	300	2311	-.193	.125	.195	-.690
300	1738	-.269	.166	.314	-.993	300	1844	-.097	.212	1.892	-.570	300	2312	-.197	.125	.182	-.685
300	1739	-.270	.159	.288	-.880	300	1845	-.077	.157	1.447	-.649	300	2313	-.113	.118	.244	-.554
300	1740	-.271	.157	.277	-.878	300	1846	-.050	.153	1.518	-.630	300	2314	-.114	.118	.248	-.555

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	2315	140	116	271	561	30	2508	059	119	323	528	30	2629	143	126	296	765
30	2316	144	124	329	578	30	2509	060	118	326	498	30	2701	102	134	381	697
30	2317	150	124	347	589	30	2510	072	121	320	566	30	2702	102	132	417	677
30	2318	198	131	323	668	30	2511	201	121	190	759	30	2703	107	122	273	744
30	2319	161	116	198	523	30	2512	143	118	260	663	30	2704	265	163	170	170
30	2320	198	119	179	575	30	2513	203	118	222	789	30	2705	158	140	430	743
30	2321	155	114	211	520	30	2514	140	116	281	581	30	2706	031	140	457	551
30	2322	172	121	203	639	30	2515	199	122	236	658	30	2707	010	153	709	581
30	2401	094	121	288	486	30	2516	137	126	278	602	30	2708	112	146	661	745
30	2402	085	121	344	486	30	2517	125	125	283	552	30	2709	124	146	327	659
30	2403	079	123	359	486	30	2518	190	134	247	639	30	2710	130	135	340	554
30	2404	073	122	366	486	30	2519	150	133	283	533	30	2711	121	133	338	573
30	2405	084	114	271	486	30	2520	147	130	339	533	30	2712	118	131	339	551
30	2406	078	114	270	488	30	2521	163	127	231	574	30	2713	161	143	366	850
30	2407	069	114	285	467	30	2522	112	121	271	511	30	2714	102	122	317	556
30	2408	077	116	315	483	30	2523	144	125	258	610	30	2715	214	121	169	742
30	2409	083	113	327	585	30	2524	135	124	210	510	30	2716	182	116	181	585
30	2410	108	119	256	587	30	2525	186	127	180	561	30	2717	197	128	251	607
30	2411	218	127	239	762	30	2526	100	125	313	484	30	2718	184	126	243	686
30	2412	175	119	222	619	30	2527	116	121	305	592	30	2719	192	133	245	642
30	2413	205	124	315	659	30	2528	133	123	288	608	30	2720	141	129	271	663
30	2414	178	127	316	659	30	2529	142	124	269	619	30	2721	171	139	255	749
30	2415	143	126	356	659	30	2530	137	123	286	599	30	2722	176	140	248	763
30	2416	131	108	233	553	30	2601	087	128	275	581	30	2723	232	144	299	908
30	2417	108	109	233	438	30	2602	106	132	263	581	30	2724	172	137	231	793
30	2418	161	117	228	664	30	2603	123	144	413	45	30	2725	108	122	336	519
30	2419	112	133	354	628	30	2604	129	148	353	69	30	2726	125	123	297	540
30	2420	138	120	231	648	30	2605	086	131	333	711	30	2727	140	126	243	623
30	2421	192	126	200	712	30	2606	089	136	320	778	30	2728	182	135	239	809
30	2422	125	120	230	630	30	2607	094	138	348	746	30	2729	197	133	233	803
30	2423	117	123	273	494	30	2608	107	132	306	629	30	2730	185	134	267	994
30	2424	109	122	287	488	30	2609	109	144	309	629	30	2731	093	119	316	545
30	2425	152	103	222	528	30	2610	141	117	304	585	30	2732	094	118	285	556
30	2426	146	101	234	516	30	2611	147	125	200	631	30	2733	105	118	323	576
30	2427	122	101	224	482	30	2612	145	127	214	644	30	2734	111	120	282	574
30	2428	120	099	244	483	30	2613	207	140	151	618	30	2735	156	126	299	762
30	2429	157	097	251	468	30	2615	146	129	300	642	30	2736	188	141	247	652
30	2430	140	098	287	459	30	2616	190	131	292	611	30	2737	123	121	340	596
30	2431	112	097	278	431	30	2617	143	126	361	547	30	2738	113	120	338	555
30	2432	128	097	258	450	30	2618	148	129	243	860	30	2739	114	121	344	544
30	2433	161	100	151	541	30	2619	144	131	236	851	30	2801	001	134	533	683
30	2434	153	100	174	531	30	2620	121	119	249	485	30	2802	005	164	818	535
30	2435	126	101	194	502	30	2621	112	119	290	457	30	2803	038	187	839	591
30	2501	075	123	402	508	30	2622	108	117	297	453	30	2804	037	161	738	569
30	2502	074	116	311	450	30	2623	183	126	117	591	30	2805	041	134	461	476
30	2503	079	121	288	450	30	2624	154	132	302	597	30	2806	003	132	830	474
30	2504	080	121	333	666	30	2625	110	116	309	688	30	2807	063	147	810	431
30	2505	073	117	322	517	30	2626	110	116	313	512	30	2808	063	182	752	628
30	2506	076	118	317	540	30	2627	121	118	299	536	30	2809	181	169	396	669
30	2507	063	118	324	549	30	2628	134	123	300	621	30	2810	208	127	238	566



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	1111	130	118	278	-456	40	1103	196	198	1024	-557	40	1153	102	183	1018	-386
30	1112	095	139	384	-569	40	1104	024	166	810	-612	40	1154	017	174	780	-552
30	1113	092	161	502	-601	40	1105	128	166	557	-898	40	1155	090	188	1085	-1135
30	1114	197	165	493	-889	40	1106	220	230	089	-558	40	1156	062	181	718	-632
30	1115	166	127	282	-650	40	1107	243	255	090	-546	40	1157	053	154	634	-573
30	1116	129	124	309	-565	40	1108	332	274	1258	-537	40	1158	074	147	551	-576
30	1117	152	134	311	-606	40	1109	278	212	1199	-341	40	1159	006	145	710	-481
30	1118	101	141	497	-636	40	1110	222	201	1201	-353	40	1160	052	129	488	-491
30	1119	164	144	398	-767	40	1111	238	206	1184	-443	40	1161	026	145	558	-495
30	1120	131	125	286	-602	40	1112	076	174	808	-513	40	1162	067	159	508	-557
30	1121	119	124	286	-592	40	1113	277	252	1279	-518	40	1163	080	133	389	-605
30	1122	106	125	328	-565	40	1114	375	260	1382	-388	40	1164	068	127	541	-493
30	1123	124	136	390	-635	40	1115	371	240	1288	-494	40	1165	069	132	554	-563
30	1124	146	136	296	-675	40	1116	360	210	1072	-281	40	1166	082	132	548	-561
30	1125	153	124	276	-612	40	1117	485	266	1503	-263	40	1201	380	255	655	-2005
30	1126	155	123	294	-642	40	1118	182	183	897	-363	40	1202	339	230	632	-1590
30	1127	159	119	213	-567	40	1119	346	281	1263	-018	40	1203	288	226	492	-374
30	1128	169	120	203	-577	40	1120	387	291	1334	-622	40	1204	315	222	492	-1472
30	1129	172	121	205	-582	40	1121	367	233	1150	-675	40	1205	447	233	287	-1670
30	1130	161	119	220	-565	40	1122	268	209	1026	-902	40	1206	433	233	352	-1644
30	1131	170	129	190	-615	40	1123	276	216	1116	-092	40	1207	421	254	416	-1732
30	1132	157	128	204	-595	40	1124	211	202	923	-783	40	1208	434	240	244	-1687
30	1133	099	118	254	-583	40	1125	335	255	1812	-686	40	1209	434	250	234	-1765
30	1134	098	119	254	-549	40	1126	375	268	1831	-685	40	1210	304	200	227	-1438
30	1135	139	131	276	-695	40	1127	371	224	1222	-350	40	1211	332	208	207	-1530
30	1136	108	125	264	-751	40	1128	283	197	1113	-300	40	1212	322	222	283	-1539
30	1137	113	127	293	-657	40	1129	306	296	1722	-242	40	1213	302	201	409	-1205
30	1138	104	128	372	-575	40	1130	208	189	992	-339	40	1214	307	220	309	-1595
30	1139	096	133	316	-701	40	1131	334	233	1198	-422	40	1215	363	178	201	-1493
30	1140	111	132	257	-548	40	1132	375	248	1478	-486	40	1216	333	190	044	-791
30	1141	135	133	258	-601	40	1133	339	203	1114	-357	40	1217	339	196	281	-1562
30	1142	071	129	316	-549	40	1134	236	182	915	-398	40	1218	393	213	234	-1877
30	1143	140	155	335	-1036	40	1135	277	189	998	-323	40	1219	391	226	188	-2122
30	1144	158	152	404	-1031	40	1136	145	173	906	-331	40	1220	351	174	464	-1117
30	1145	128	148	413	-750	40	1137	323	220	1091	-445	40	1221	356	178	545	-1082
30	1146	109	192	774	-1504	40	1138	365	228	1203	-439	40	1222	374	190	432	-1381
30	1147	079	133	351	-809	40	1139	287	194	1014	-355	40	1223	362	195	329	-1556
30	1148	116	166	377	-1190	40	1140	289	173	885	-404	40	1224	397	226	236	-1622
30	1149	151	147	411	-751	40	1141	254	187	1040	-252	40	1225	398	186	188	-1339
30	1150	146	136	380	-589	40	1142	092	165	754	-482	40	1226	413	188	169	-1373
30	1151	190	141	282	-683	40	1143	304	242	1154	-848	40	1227	403	203	260	-1483
30	1152	185	139	283	-644	40	1144	359	246	1325	-683	40	1228	400	211	307	-1824
30	1153	089	141	612	-581	40	1145	278	226	1052	-454	40	1229	411	229	290	-1828
30	1154	095	111	289	-474	40	1146	241	202	895	-411	40	1230	499	198	120	-1626
30	1155	102	110	430	-449	40	1147	233	200	1100	-294	40	1231	456	222	283	-1978
30	1156	116	098	282	-462	40	1148	104	177	929	-490	40	1232	448	231	268	-1533
30	1157	073	099	372	-406	40	1149	103	200	900	-544	40	1233	371	222	364	-1326
30	1158	113	098	213	-495	40	1150	117	208	971	-542	40	1234	416	231	217	-1700
40	1101	327	257	1315	-486	40	1151	097	179	789	-472	40	1235	521	236	143	-1986
40	1102	269	233	1115	-409	40	1152	064	177	908	-434	40	1236	494	252	247	-1614

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	1237	476	267	404	-1.936	40	1328	385	184	137	-1.110	40	1419	252	168	236	-991
40	1238	409	292	292	-1.707	40	1329	391	195	137	-1.225	40	1420	351	167	106	-967
40	1239	464	269	311	-1.804	40	1330	421	211	316	-1.732	40	1421	310	157	119	-832
40	1240	454	254	216	-1.869	40	1331	413	212	228	-1.682	40	1422	287	140	145	-770
40	1241	487	282	278	-2.069	40	1332	318	166	131	-1.041	40	1423	290	150	169	-878
40	1242	370	305	562	-1.873	40	1333	368	176	130	-1.110	40	1424	323	158	148	-972
40	1243	62	229	465	-1.543	40	1334	333	180	167	-1.193	40	1425	333	172	224	-1.350
40	1244	294	225	300	-1.452	40	1335	404	230	251	-2.165	40	1426	336	167	247	-1.063
40	1245	292	191	309	-1.306	40	1336	445	189	073	-1.357	40	1427	391	158	256	-869
40	1246	275	206	338	-1.513	40	1337	441	183	013	-1.450	40	1428	333	171	219	-1.173
40	1247	203	196	505	-1.389	40	1338	401	188	113	-1.373	40	1429	333	172	227	-1.104
40	1248	127	149	389	-876	40	1339	437	188	089	-1.188	40	1430	382	184	254	-962
40	1249	182	151	323	-861	40	1340	413	186	091	-1.389	40	1431	366	175	250	-991
40	1250	125	130	299	-561	40	1341	421	166	044	-1.191	40	1432	361	167	211	-1.027
40	1251	163	137	297	-623	40	1342	388	167	080	-1.134	40	1433	363	178	219	-1.142
40	1252	124	133	341	-664	40	1344	396	187	239	-1.547	40	1434	362	177	209	-1.017
40	1253	113	147	784	-740	40	1345	348	197	445	-1.430	40	1435	329	171	213	-934
40	1254	153	150	336	-815	40	1346	300	157	121	-948	40	1436	362	155	138	-950
40	1255	114	132	427	-510	40	1347	368	167	071	-1.250	40	1437	310	153	205	-904
40	1256	61	130	462	-455	40	1348	284	160	385	-996	40	1438	283	153	193	-875
40	1257	61	143	481	-456	40	1349	203	151	303	-761	40	1439	304	162	144	-923
40	1258	36	148	502	-535	40	1350	116	144	547	-649	40	1440	303	165	180	-010
40	1259	112	148	372	-554	40	1351	215	120	221	-670	40	1441	298	170	138	-997
40	1301	397	220	287	-1.510	40	1352	231	130	195	-738	40	1442	261	153	195	-875
40	1302	414	233	298	-2.137	40	1353	214	131	271	-556	40	1443	260	148	215	-863
40	1303	409	236	380	-1.557	40	1354	113	118	282	-556	40	1444	244	155	255	-948
40	1304	246	197	273	-1.224	40	1355	188	189	472	-701	40	1445	199	137	242	-910
40	1305	259	195	280	-1.153	40	1356	196	158	226	-922	40	1446	193	137	231	-1.035
40	1306	283	187	253	-1.565	40	1357	246	172	307	-1.455	40	1447	181	129	257	-820
40	1307	243	188	228	-1.406	40	1358	193	168	423	-1.058	40	1448	199	128	238	-818
40	1308	266	192	252	-1.050	40	1359	137	145	402	-691	40	1449	182	131	258	-856
40	1309	286	204	549	-1.502	40	1360	94	150	549	-703	40	1450	172	122	249	-887
40	1310	276	221	458	-1.576	40	1401	239	199	368	-1.275	40	1451	189	123	242	-914
40	1311	246	170	289	-1.032	40	1402	228	197	445	-1.254	40	1452	169	121	265	-927
40	1312	266	167	266	-1.060	40	1403	241	198	402	-1.166	40	1453	163	127	376	-632
40	1313	171	171	294	-1.118	40	1404	236	205	387	-1.266	40	1454	170	129	367	-692
40	1314	366	184	282	-1.291	40	1405	212	164	325	-974	40	1455	170	106	158	-589
40	1315	245	176	406	-1.388	40	1406	198	163	340	-917	40	1456	187	149	282	-824
40	1316	317	164	215	-1.091	40	1407	206	162	271	-890	40	1457	148	126	266	-713
40	1317	332	160	235	-993	40	1408	192	162	244	-835	40	1458	149	126	254	-702
40	1318	311	164	238	-1.177	40	1409	221	170	266	-948	40	1459	172	131	245	-723
40	1319	338	171	248	-1.209	40	1410	225	154	311	-925	40	1501	199	168	394	-911
40	1320	328	194	272	-1.310	40	1411	226	150	272	-832	40	1502	178	161	358	-841
40	1321	344	171	242	-1.219	40	1412	208	115	168	-651	40	1503	253	154	294	-871
40	1322	334	169	242	-1.156	40	1413	189	138	220	-773	40	1504	243	163	399	-861
40	1323	338	175	293	-1.151	40	1414	190	142	227	-814	40	1505	249	165	398	-862
40	1324	371	185	256	-1.654	40	1415	309	167	296	-1.133	40	1506	175	160	304	-953
40	1325	333	195	204	-1.190	40	1416	308	161	259	-950	40	1507	164	156	320	-947
40	1326	333	179	223	-1.122	40	1417	267	149	228	-831	40	1508	175	151	328	-944
40	1327	345	176	263	-1.093	40	1418	257	162	373	-1.116	40	1509	222	151	390	-747

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	15110	233	153	370	801	40	1560	176	128	273	640	40	1704	006	288	135	853
40	15111	246	146	234	762	40	1561	125	124	310	593	40	1705	143	256	929	950
40	15112	246	148	237	764	40	1562	130	120	249	677	40	1706	358	189	402	087
40	15113	163	141	320	728	40	1601	301	164	257	921	40	1707	498	206	101	305
40	15114	174	138	334	728	40	1602	305	167	231	815	40	1708	541	225	123	509
40	15115	158	136	337	655	40	1603	364	183	173	224	40	1709	486	222	202	457
40	15116	238	136	194	767	40	1604	368	190	186	230	40	1710	484	221	154	422
40	15117	243	140	195	762	40	1605	194	150	322	833	40	1711	273	266	846	364
40	15118	257	142	240	768	40	1606	223	157	284	939	40	1712	457	211	225	213
40	15119	237	148	291	812	40	1607	239	156	268	109	40	1713	486	206	148	241
40	15209	266	145	319	794	40	1608	238	165	314	019	40	1714	363	174	182	222
40	15221	199	139	230	685	40	1609	281	174	244	196	40	1715	423	174	166	979
40	15222	188	140	277	684	40	1610	264	150	220	008	40	1716	197	306	896	364
40	15233	206	144	259	693	40	1611	248	145	218	008	40	1717	459	252	674	366
40	15234	196	143	255	694	40	1612	270	155	228	008	40	1718	495	226	461	417
40	15235	238	136	171	714	40	1613	306	167	216	103	40	1719	499	204	354	280
40	15236	229	132	227	640	40	1614	326	174	251	066	40	1720	437	177	079	261
40	15237	225	132	240	657	40	1615	247	165	246	938	40	1721	294	263	827	182
40	15238	245	137	223	702	40	1616	236	161	201	938	40	1722	378	229	507	301
40	15239	212	137	259	727	40	1617	250	163	228	888	40	1723	496	226	519	412
40	15300	213	137	356	657	40	1618	264	179	232	939	40	1724	466	207	126	324
40	15331	255	141	192	720	40	1619	310	198	379	494	40	1725	388	179	150	227
40	15332	252	140	204	697	40	1620	241	163	341	123	40	1726	314	221	682	242
40	15333	255	142	216	726	40	1621	258	156	377	774	40	1727	380	211	323	170
40	15334	232	144	249	789	40	1622	332	153	457	859	40	1728	432	204	247	198
40	15335	225	141	258	754	40	1623	336	157	284	050	40	1729	442	190	139	079
40	15336	228	143	242	785	40	1624	262	166	409	099	40	1730	392	166	099	555
40	15337	273	142	213	733	40	1625	291	173	217	299	40	1731	240	203	762	922
40	15338	271	142	222	723	40	1626	263	160	230	011	40	1732	315	162	271	011
40	15339	248	137	243	657	40	1627	255	162	351	924	40	1733	348	158	153	000
40	15400	224	147	171	821	40	1628	260	165	360	943	40	1734	361	154	128	922
40	15441	214	146	179	768	40	1629	305	179	316	069	40	1735	426	176	123	075
40	15442	249	151	165	864	40	1630	275	168	176	013	40	1736	289	189	633	109
40	15443	228	126	163	647	40	1631	232	146	273	907	40	1737	307	176	291	259
40	15444	230	124	175	614	40	1632	226	140	287	838	40	1738	332	165	133	044
40	15445	207	120	183	572	40	1633	232	145	306	888	40	1739	325	158	140	975
40	15446	197	127	279	684	40	1634	268	151	306	885	40	1740	327	156	124	030
40	1547	195	129	270	700	40	1635	270	167	208	088	40	1741	148	153	650	651
40	1548	226	135	259	741	40	1636	285	165	171	077	40	1742	321	170	258	171
40	1549	220	132	273	680	40	1637	247	153	184	004	40	1743	336	168	171	194
40	15500	195	130	226	603	40	1638	270	167	282	014	40	1744	276	178	250	073
40	1551	210	130	199	590	40	1639	281	173	303	211	40	1801	022	209	907	896
40	15552	193	128	216	573	40	1640	244	149	183	1292	40	1802	207	235	261	711
40	15553	199	127	252	650	40	1641	281	164	229	023	40	1803	348	272	1479	627
40	15554	177	126	227	761	40	1642	304	159	147	1247	40	1804	322	292	1594	776
40	15555	172	124	208	689	40	1643	292	162	196	439	40	1805	044	178	573	731
40	15556	206	128	177	760	40	1644	265	156	203	731	40	1806	083	200	749	617
40	15557	234	133	176	774	40	1701	309	193	282	119	40	1807	176	227	964	441
40	15558	173	125	356	577	40	1702	366	209	244	116	40	1808	223	252	1089	497
40	15559	156	124	380	606	40	1703	518	276	256	906	40	1809	310	283	1403	013

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN
40	1810	045	168	647	602
40	1811	164	196	970	489
40	1812	393	227	120	568
40	1813	463	287	604	584
40	1814	466	292	558	555
40	1815	055	138	480	530
40	1816	137	158	709	377
40	1817	377	215	205	226
40	1818	473	252	513	244
40	1819	49	268	397	479
40	1820	005	151	625	512
40	1821	144	156	699	374
40	1822	390	216	182	333
40	1823	454	256	835	428
40	1824	451	263	888	425
40	1825	082	144	454	680
40	1826	101	159	701	469
40	1827	336	216	126	288
40	1828	425	241	328	279
40	1829	418	245	356	303
40	1830	132	149	650	694
40	1831	084	157	730	406
40	1832	31	203	149	329
40	1833	401	233	345	364
40	1834	401	238	160	406
40	1835	129	151	603	830
40	1836	036	154	741	486
40	1837	17	145	503	254
40	1838	275	212	238	364
40	1839	328	244	262	319
40	1840	101	151	550	610
40	1841	054	155	596	540
40	1842	097	177	779	408
40	1843	147	196	057	383
40	1844	142	202	874	581
40	1845	05	160	503	636
40	1846	02	153	535	575
40	1847	01	167	753	607
40	1848	004	185	883	546
40	1849	047	192	891	593
40	1850	081	130	410	512
40	1851	07	144	399	722
40	1852	057	144	437	574
40	1853	108	157	613	656
40	1854	092	156	731	748
40	1901	235	181	296	275
40	1902	41	234	779	927
40	1903	251	251	357	927
40	1904	209	209	345	706
40	1905	364	266	604	015

WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN
40	1906	307	248	300	440
40	1908	277	234	404	316
40	1909	406	286	338	192
40	1910	354	221	482	524
40	1911	254	142	147	969
40	1912	408	229	400	405
40	1913	266	135	185	711
40	1914	251	226	445	214
40	1915	401	221	245	466
40	1916	357	227	171	283
40	1917	256	137	204	800
40	1918	342	248	525	347
40	1919	388	260	443	526
40	1920	277	160	172	940
40	1921	468	252	691	528
40	1922	477	251	222	598
40	1924	561	279	222	715
40	1925	313	169	222	934
40	1926	299	210	343	322
40	1927	457	244	232	227
40	1928	250	254	694	265
40	1929	348	187	138	200
40	1930	454	261	452	389
40	2301	169	129	264	654
40	2302	171	130	229	641
40	2303	181	128	229	707
40	2304	176	128	233	662
40	2305	183	130	233	666
40	2306	180	122	230	666
40	2307	161	127	230	666
40	2308	167	129	230	666
40	2309	180	131	230	666
40	2310	182	132	230	666
40	2311	257	147	230	666
40	2312	264	147	230	666
40	2313	222	127	230	666
40	2314	208	127	230	666
40	2315	186	121	230	666
40	2316	171	116	230	666
40	2317	177	117	230	666
40	2318	243	126	230	666
40	2319	205	122	230	666
40	2320	254	129	230	666
40	2321	198	123	230	666
40	2322	202	124	230	666
40	2401	179	131	230	666
40	2402	165	122	230	666
40	2403	157	125	230	666
40	2404	164	128	230	666
40	2405	184	123	230	666

WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN
40	2406	177	123	177	295
40	2407	181	126	181	297
40	2408	183	127	183	297
40	2409	172	125	172	297
40	2410	204	132	204	297
40	2411	290	143	290	297
40	2412	236	134	236	297
40	2413	255	142	255	297
40	2414	231	146	231	297
40	2415	178	120	178	297
40	2416	185	131	185	297
40	2417	170	131	170	297
40	2418	256	142	256	297
40	2419	189	125	189	297
40	2420	178	126	178	297
40	2421	248	132	248	297
40	2422	176	126	176	297
40	2423	195	126	195	297
40	2424	187	126	187	297
40	2425	190	101	190	297
40	2426	210	101	210	297
40	2427	181	099	181	297
40	2428	184	099	184	297
40	2429	161	104	161	297
40	2430	175	108	175	297
40	2431	145	110	145	297
40	2432	186	112	186	297
40	2433	211	110	211	297
40	2434	230	116	230	297
40	2435	199	119	199	297
40	2501	172	135	172	297
40	2502	170	140	170	297
40	2503	176	145	176	297
40	2504	182	128	182	297
40	2505	185	128	185	297
40	2506	177	128	177	297
40	2507	188	143	188	297
40	2508	181	143	181	297
40	2509	196	145	196	297
40	2510	202	147	202	297
40	2511	287	149	287	297
40	2512	216	140	216	297
40	2513	266	124	266	297
40	2514	207	145	207	297
40	2515	283	156	283	297
40	2516	200	138	200	297
40	2517	185	134	185	297
40	2518	273	145	273	297
40	2519	221	139	221	297
40	2520	216	138	216	297

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	27113	.167	.131	.167	.131	40	27113	.169	.157	.333	.887	40	27224	.143	.134	.484	.584
40	27114	.163	.133	.163	.133	40	27114	.086	.123	.402	.519	40	27201	.188	.188	.290	.697
40	27115	.155	.133	.155	.133	40	27115	.281	.154	.154	.002	40	27202	.189	.189	.271	.692
40	27116	.144	.133	.144	.133	40	27116	.248	.144	.177	.805	40	27203	.197	.135	.216	.639
40	27117	.130	.133	.130	.133	40	27117	.247	.130	.177	.689	40	27204	.201	.135	.172	.685
40	27118	.140	.133	.140	.133	40	27118	.240	.140	.162	.692	40	27205	.206	.136	.175	.663
40	27119	.168	.133	.168	.133	40	27119	.235	.140	.278	.743	40	27206	.193	.133	.193	.631
40	27220	.168	.133	.168	.133	40	27220	.215	.136	.293	.765	40	27207	.242	.136	.184	.753
40	27221	.140	.133	.140	.133	40	27221	.240	.131	.140	.810	40	27208	.230	.135	.194	.752
40	27222	.184	.136	.184	.136	40	27222	.168	.129	.252	.729	40	27209	.176	.131	.226	.816
40	27223	.184	.136	.184	.136	40	27223	.215	.131	.140	.810	40	27210	.176	.131	.226	.816
40	27224	.184	.136	.184	.136	40	27224	.240	.131	.140	.810	40	27211	.180	.133	.222	.898
40	27225	.184	.136	.184	.136	40	27225	.312	.136	.131	.858	40	27212	.180	.133	.222	.898
40	27226	.184	.136	.184	.136	40	27226	.235	.129	.180	.729	40	27213	.207	.134	.244	.850
40	27227	.184	.136	.184	.136	40	27227	.113	.127	.472	.745	40	27214	.211	.134	.214	.845
40	27228	.184	.136	.184	.136	40	27228	.130	.129	.511	.724	40	27215	.173	.142	.267	.435
40	27229	.184	.136	.184	.136	40	27229	.152	.136	.457	.767	40	27216	.150	.132	.499	.674
40	27230	.184	.136	.184	.136	40	27230	.243	.164	.254	.164	40	27217	.199	.161	.499	.889
40	27231	.184	.136	.184	.136	40	27231	.261	.155	.205	.140	40	27218	.188	.147	.283	.163
40	27232	.184	.136	.184	.136	40	27232	.241	.154	.298	.234	40	27219	.177	.141	.259	.701
40	27233	.184	.136	.184	.136	40	27233	.081	.123	.484	.462	40	27220	.217	.160	.246	.061
40	27234	.184	.136	.184	.136	40	27234	.070	.123	.554	.460	40	27221	.253	.194	.325	.411
40	27235	.184	.136	.184	.136	40	27235	.885	.126	.505	.494	40	27222	.200	.186	.274	.137
40	27236	.184	.136	.184	.136	40	27236	.101	.128	.489	.479	40	27223	.174	.169	.500	.110
40	27237	.184	.136	.184	.136	40	27237	.190	.134	.333	.764	40	27224	.174	.169	.633	.938
40	27238	.184	.136	.184	.136	40	27238	.126	.161	.307	.141	40	27225	.186	.152	.371	.938
40	27239	.184	.136	.184	.136	40	27239	.108	.127	.395	.539	40	27226	.190	.152	.571	.356
40	27240	.184	.136	.184	.136	40	27240	.115	.123	.376	.490	40	27227	.141	.172	.341	.052
40	27241	.184	.136	.184	.136	40	27241	.072	.130	.367	.539	40	27228	.184	.144	.614	.783
40	27242	.184	.136	.184	.136	40	27242	.033	.155	.688	.708	40	27229	.185	.142	.185	.874
40	27243	.184	.136	.184	.136	40	27243	.040	.211	.939	.618	40	27230	.184	.137	.184	.878
40	27244	.184	.136	.184	.136	40	27244	.096	.238	.629	.690	40	27231	.185	.136	.781	.517
40	27245	.184	.136	.184	.136	40	27245	.024	.196	.334	.831	40	27232	.185	.105	.285	.627
40	27246	.184	.136	.184	.136	40	27246	.092	.136	.399	.577	40	27233	.185	.102	.370	.396
40	27247	.184	.136	.184	.136	40	27247	.139	.145	.530	.512	40	27234	.185	.099	.335	.400
40	27248	.184	.136	.184	.136	40	27248	.296	.182	.901	.473	40	27235	.185	.051	.409	.342
40	27249	.184	.136	.184	.136	40	27249	.260	.221	.776	.996	40	27236	.185	.089	.225	.466
40	27250	.184	.136	.184	.136	40	27250	.157	.132	.334	.109	50	27237	.185	.110	.251	.464
40	27251	.184	.136	.184	.136	40	27251	.091	.124	.154	.730	50	27238	.185	.119	.101	.485
40	27252	.184	.136	.184	.136	40	27252	.074	.124	.269	.553	50	27239	.185	.110	.101	.485
40	27253	.184	.136	.184	.136	40	27253	.145	.127	.390	.582	50	27240	.185	.103	.174	.479
40	27254	.184	.136	.184	.136	40	27254	.212	.145	.431	.688	50	27241	.185	.105	.156	.447
40	27255	.184	.136	.184	.136	40	27255	.190	.127	.556	.797	50	27242	.185	.105	.150	.495
40	27256	.184	.136	.184	.136	40	27256	.139	.124	.269	.682	50	27243	.185	.105	.150	.495
40	27257	.184	.136	.184	.136	40	27257	.153	.137	.324	.671	50	27244	.185	.105	.150	.495
40	27258	.184	.136	.184	.136	40	27258	.084	.142	.395	.635	50	27245	.185	.105	.150	.495
40	27259	.184	.136	.184	.136	40	27259	.185	.149	.534	.697	50	27246	.185	.105	.150	.495
40	27260	.184	.136	.184	.136	40	27260	.159	.139	.292	.662	50	27247	.185	.105	.150	.495
40	27261	.184	.136	.184	.136	40	27261	.095	.136	.283	.626	50	27248	.185	.105	.150	.495
40	27262	.184	.136	.184	.136	40	27262	.117	.138	.298	.662	50	27249	.185	.105	.150	.495
40	27263	.184	.136	.184	.136	40	27263	.117	.138	.551	.770	50	27250	.185	.105	.150	.495



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	11116	448	210	168	180
50	11117	574	249	592	132
50	11118	268	178	377	224
50	11119	428	246	425	234
50	11200	444	272	504	356
50	1121	446	219	251	131
50	1122	371	197	165	224
50	1123	373	202	222	231
50	1124	283	194	142	325
50	1125	419	221	324	218
50	1126	450	228	305	187
50	1127	432	216	352	13
50	1128	355	196	180	357
50	1129	362	206	230	373
50	1130	259	187	070	342
50	1131	447	235	486	422
50	1132	420	238	557	418
50	1133	388	197	321	255
50	1134	298	181	092	248
50	1135	328	185	212	205
50	1136	242	187	056	294
50	1137	399	234	280	297
50	1138	428	243	351	393
50	1139	369	208	240	250
50	1140	305	186	031	244
50	1141	313	186	976	41
50	1142	142	164	632	44
50	1143	327	226	212	44
50	1144	362	235	245	361
50	1145	325	202	103	67
50	1146	265	185	951	305
50	1147	313	191	124	210
50	1148	132	185	060	437
50	1149	177	213	28	506
50	1150	217	218	183	545
50	1151	180	185	882	404
50	1152	127	168	895	405
50	1153	156	175	963	293
50	1154	058	161	765	418
50	1155	033	170	757	765
50	1156	031	177	723	895
50	1157	028	154	680	522
50	1158	017	146	675	496
50	1159	025	147	738	446
50	1160	031	144	556	587
50	1161	016	134	641	355
50	1162	018	144	656	428
50	1163	037	129	558	413
50	1164	034	128	453	461
50	1165	027	142	482	502

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	1166	009	130	477	427
50	1201	345	196	281	244
50	1202	331	188	262	071
50	1203	340	193	337	155
50	1204	291	191	233	648
50	1205	410	182	084	332
50	1206	440	180	109	324
50	1207	430	220	281	987
50	1208	430	217	261	785
50	1209	437	242	274	017
50	1210	444	164	236	120
50	1211	433	171	177	268
50	1212	433	182	261	336
50	1213	444	205	387	222
50	1214	444	205	343	406
50	1215	444	159	126	158
50	1216	444	114	044	810
50	1217	444	178	229	188
50	1218	444	196	290	531
50	1219	444	212	289	162
50	1220	444	143	189	898
50	1221	444	144	181	905
50	1222	444	155	201	064
50	1223	444	169	324	543
50	1224	444	207	177	863
50	1225	444	164	114	418
50	1226	444	169	088	569
50	1227	444	193	104	429
50	1228	444	193	130	268
50	1229	444	217	135	804
50	1230	444	178	063	305
50	1231	444	193	216	272
50	1232	444	189	116	613
50	1233	444	221	249	016
50	1234	444	239	117	168
50	1235	444	210	020	031
50	1236	444	200	100	958
50	1237	444	217	285	266
50	1238	444	217	229	629
50	1239	444	217	218	643
50	1240	444	220	130	963
50	1241	444	220	146	663
50	1242	444	226	373	182
50	1243	444	226	390	248
50	1244	444	222	275	509
50	1245	444	227	203	958
50	1246	444	234	294	438
50	1247	444	210	432	230
50	1248	444	170	377	970
50	1249	444	176	351	001

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	1250	176	149	305	840
50	1251	171	152	328	893
50	1252	167	148	443	776
50	1253	158	155	544	737
50	1254	205	142	439	777
50	1255	041	143	511	489
50	1256	025	149	665	456
50	1257	002	146	623	453
50	1258	040	153	590	615
50	1259	030	139	731	576
50	1301	339	181	200	296
50	1302	390	179	228	519
50	1303	400	188	251	629
50	1304	247	171	350	992
50	1305	244	164	238	377
50	1306	249	161	241	882
50	1307	256	162	262	965
50	1308	308	171	193	178
50	1309	312	177	377	028
50	1310	285	183	455	100
50	1311	254	158	366	134
50	1312	291	156	231	115
50	1313	268	158	294	109
50	1314	376	163	157	227
50	1315	271	165	248	238
50	1316	315	153	307	976
50	1317	315	152	322	890
50	1318	353	157	284	062
50	1319	366	160	289	209
50	1320	314	167	28	568
50	1321	314	158	177	101
50	1322	334	169	169	210
50	1323	333	169	171	275
50	1324	367	167	195	414
50	1325	359	167	146	040
50	1326	370	174	192	978
50	1327	347	169	199	906
50	1328	374	172	096	380
50	1329	381	178	081	239
50	1330	403	185	105	740
50	1331	396	174	173	187
50	1332	408	183	265	342
50	1333	421	180	161	363
50	1334	339	203	153	460
50	1335	442	189	141	248
50	1336	473	171	042	534
50	1337	454	165	074	159
50	1338	393	161	090	119
50	1339	446	170	056	076
50	1340	467	165	122	483

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN
1341	460	182	109	-1	22	1432	388	161	118	-1	109	1523	262	146	168	-1	718
1342	394	176	153	-1	20	1433	378	169	118	-1	109	1524	245	145	197	-1	666
1343	451	176	153	-1	21	1434	388	175	118	-1	109	1525	257	144	144	-1	751
1344	412	189	174	-1	47	1435	413	171	118	-1	109	1526	260	143	144	-1	778
1345	312	150	121	-1	47	1436	396	145	118	-1	109	1527	254	143	144	-1	774
1346	381	161	145	-1	15	1437	395	156	118	-1	109	1528	283	143	144	-1	832
1347	419	181	195	-1	15	1438	380	162	118	-1	109	1529	255	143	144	-1	832
1348	318	166	120	-1	07	1439	403	185	118	-1	109	1530	241	143	144	-1	714
1349	188	160	140	-1	07	1440	391	196	118	-1	109	1531	289	143	144	-1	760
1350	262	131	173	-1	15	1441	395	192	118	-1	109	1532	266	140	143	-1	809
1351	279	130	164	-1	00	1442	342	167	118	-1	109	1533	297	140	143	-1	809
1352	183	131	144	-1	00	1443	344	165	118	-1	109	1534	269	140	143	-1	757
1353	262	118	131	-1	00	1444	326	173	118	-1	109	1535	260	140	143	-1	764
1354	133	118	118	-1	00	1445	342	166	118	-1	109	1536	258	141	143	-1	715
1355	183	103	103	-1	00	1446	242	175	118	-1	109	1537	293	141	143	-1	927
1356	269	153	163	-1	05	1447	250	166	118	-1	109	1538	300	141	143	-1	848
1357	302	174	158	-1	05	1448	233	153	118	-1	109	1539	300	141	143	-1	805
1358	227	177	142	-1	00	1449	266	156	118	-1	109	1540	279	141	143	-1	868
1359	133	164	155	-1	00	1450	250	166	118	-1	109	1541	265	140	143	-1	824
1360	083	169	177	-1	00	1451	180	134	118	-1	109	1542	312	140	143	-1	898
1401	232	153	149	-1	11	1452	186	133	118	-1	109	1543	286	140	143	-1	790
1402	211	149	133	-1	11	1453	219	138	118	-1	109	1544	287	140	143	-1	781
1403	246	155	133	-1	11	1454	225	147	118	-1	109	1545	263	140	143	-1	782
1404	223	156	133	-1	11	1455	199	116	118	-1	109	1546	268	140	143	-1	773
1405	236	158	144	-1	11	1456	225	146	118	-1	109	1547	268	143	143	-1	727
1406	214	154	144	-1	11	1457	177	133	118	-1	109	1548	313	144	143	-1	844
1407	244	158	144	-1	11	1458	225	146	118	-1	109	1549	306	143	143	-1	921
1408	218	159	132	-1	11	1459	177	146	118	-1	109	1550	231	143	143	-1	699
1409	222	152	144	-1	11	1460	210	146	118	-1	109	1551	231	143	143	-1	921
1410	223	141	177	-1	11	1500	187	163	118	-1	109	1552	252	143	143	-1	701
1411	246	140	164	-1	11	1501	187	157	118	-1	109	1553	244	143	143	-1	705
1412	201	107	104	-1	11	1502	115	164	118	-1	109	1554	273	143	143	-1	754
1413	232	152	133	-1	11	1503	115	159	118	-1	109	1555	229	143	143	-1	782
1414	224	155	133	-1	11	1504	322	159	118	-1	109	1556	229	143	143	-1	735
1415	313	160	164	-1	11	1505	328	162	118	-1	109	1557	257	143	143	-1	741
1416	324	154	164	-1	11	1506	206	139	118	-1	109	1558	310	143	143	-1	931
1417	281	143	155	-1	11	1507	191	135	118	-1	109	1559	233	143	143	-1	710
1418	264	150	184	-1	11	1508	219	136	118	-1	109	1560	217	143	143	-1	715
1419	295	149	184	-1	11	1509	297	149	118	-1	109	1561	226	143	143	-1	750
1420	353	151	105	-1	11	1510	310	157	118	-1	109	1562	170	143	143	-1	664
1421	314	144	130	-1	11	1511	318	159	118	-1	109	1563	152	143	143	-1	545
1422	291	142	151	-1	11	1512	199	134	118	-1	109	1564	152	143	143	-1	416
1423	292	149	121	-1	11	1513	225	131	118	-1	109	1565	348	143	143	-1	598
1424	331	156	106	-1	11	1514	199	131	118	-1	109	1566	411	143	143	-1	169
1425	342	161	158	-1	11	1515	310	151	118	-1	109	1567	449	143	143	-1	607
1426	328	144	147	-1	11	1516	317	153	118	-1	109	1568	234	143	143	-1	927
1427	302	140	133	-1	11	1517	317	155	118	-1	109	1569	279	143	143	-1	038
1428	351	154	173	-1	11	1518	270	144	118	-1	109	1570	308	143	143	-1	956
1429	336	156	162	-1	11	1519	244	140	118	-1	109	1571	277	143	143	-1	920
1430	401	174	155	-1	11	1520	242	138	118	-1	109	1572	343	143	143	-1	085
1431	373	167	151	-1	11	1521	332	140	118	-1	109	1573	339	143	143	-1	045

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	1717	386	289	725	354	50	1823	507	212	528	65						
50	1718	460	227	481	344	50	1824	512	218	537	65						
50	1719	466	228	333	162	50	1825	039	159	667	576						
50	1720	422	205	283	155	50	1826	164	165	830	425						
50	1721	260	303	847	142	50	1827	410	207	160	314						
50	1722	370	267	717	110	50	1828	514	236	404	267						
50	1723	416	232	610	55	50	1829	514	246	529	280						
50	1724	387	212	297	242	50	1830	124	153	494	278						
50	1725	374	198	250	53	50	1831	356	188	706	577						
50	1726	290	243	662	219	50	1832	441	219	147	402						
50	1727	372	216	632	359	50	1833	456	246	392	356						
50	1728	430	198	243	274	50	1834	112	157	726	334						
50	1729	451	185	163	229	50	1835	074	157	390	825						
50	1730	381	184	147	919	50	1836	279	136	687	440						
50	1731	193	240	838	979	50	1837	367	198	802	161						
50	1732	333	228	405	887	50	1838	555	229	268	246						
50	1733	424	202	241	132	50	1839	076	152	143	390						
50	1734	424	189	175	822	50	1840	000	147	494	607						
50	1735	423	186	088	254	50	1841	113	165	538	662						
50	1736	314	203	684	210	50	1842	185	206	776	521						
50	1737	340	187	376	240	50	1843	192	196	956	442						
50	1738	359	180	196	244	50	1844	004	143	130	358						
50	1739	350	169	181	887	50	1845	000	141	838	428						
50	1740	349	166	167	550	50	1846	000	141	886	426						
50	1741	110	201	789	339	50	1847	007	165	704	514						
50	1742	333	224	287	747	50	1848	022	187	822	560						
50	1743	286	187	183	884	50	1849	022	195	987	833						
50	1801	008	218	912	054	50	1850	041	137	441	452						
50	1802	169	250	190	680	50	1851	033	136	664	801						
50	1803	228	272	324	630	50	1852	020	137	651	913						
50	1804	237	285	363	777	50	1853	028	147	735	603						
50	1805	033	172	693	576	50	1854	059	156	751	070						
50	1806	098	184	808	433	50	1901	274	160	231	972						
50	1807	188	202	008	378	50	1902	421	184	212	364						
50	1808	235	219	210	374	50	1903	357	214	295	496						
50	1809	268	238	106	439	50	1904	272	178	248	627						
50	1810	014	188	843	683	50	1905	339	220	296	473						
50	1811	185	203	888	439	50	1906	291	209	401	510						
50	1812	446	249	425	237	50	1907	341	218	383	515						
50	1813	509	259	320	242	50	1908	288	213	212	611						
50	1814	520	267	419	220	50	1909	469	184	217	383						
50	1815	001	163	419	514	50	1910	337	149	153	735						
50	1816	260	163	760	355	50	1911	469	217	342	113						
50	1817	435	199	140	316	50	1912	312	139	144	802						
50	1818	540	227	352	337	50	1913	300	208	274	425						
50	1819	550	254	479	663	50	1914	413	188	143	120						
50	1820	041	171	745	465	50	1915	325	153	264	377						
50	1821	188	172	783	314	50	1916	304	197	159	953						
50	1822	444	211	822	682	50	1917	404	271	326	533						
50	1823	500	250	900	700	50	1918	500	300	500	500						



APPENDIX A -- PRESSURE DATA:

CONFIGURAT A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	1920	324	156	202	941	50	2419	234	146	235	700	50	2604	379	200	269	-1.118
50	1921	457	216	200	516	50	2420	348	138	235	860	50	2605	287	186	234	-1.042
50	1922	448	204	089	439	50	2421	332	145	233	921	50	2606	304	195	303	-1.132
50	1924	520	219	099	672	50	2422	341	137	236	804	50	2607	335	202	242	-1.298
50	1925	364	170	237	117	50	2423	336	149	236	910	50	2608	325	187	198	-1.451
50	1926	393	230	400	566	50	2424	228	151	239	928	50	2609	331	173	174	-1.181
50	1927	453	277	251	521	50	2425	224	111	115	594	50	2610	272	150	195	-1.764
50	1928	322	244	509	797	50	2426	222	108	097	656	50	2611	286	149	198	-1.814
50	1929	339	200	468	146	50	2427	166	106	214	601	50	2612	307	165	190	-1.909
50	1930	417	203	165	358	50	2428	160	108	152	502	50	2613	443	198	129	-1.410
50	2301	241	134	185	725	50	2429	203	110	199	571	50	2615	280	162	262	-1.858
50	2302	234	132	183	725	50	2430	217	114	151	569	50	2616	344	159	148	-1.146
50	2303	227	124	178	694	50	2431	188	120	191	571	50	2617	294	166	192	-1.128
50	2304	218	124	166	676	50	2432	230	117	151	658	50	2618	346	189	174	-1.603
50	2305	239	127	179	704	50	2433	253	123	175	676	50	2619	344	194	149	-1.472
50	2306	232	125	149	694	50	2434	249	129	185	737	50	2620	181	125	247	-1.624
50	2307	209	135	209	784	50	2435	193	131	232	853	50	2621	196	132	184	-1.624
50	2308	212	136	199	787	50	2501	267	155	206	892	50	2622	201	139	211	-1.941
50	2309	237	140	169	811	50	2502	254	148	272	762	50	2623	357	170	084	-1.229
50	2310	235	141	186	839	50	2503	255	153	306	817	50	2624	348	187	237	-1.205
50	2311	334	156	161	869	50	2504	224	139	008	780	50	2625	197	139	339	-1.698
50	2312	347	155	134	855	50	2505	237	138	111	782	50	2626	184	137	357	-1.704
50	2313	293	145	247	847	50	2506	221	135	230	763	50	2627	222	149	318	-1.964
50	2314	270	142	257	863	50	2507	239	144	281	707	50	2628	278	166	228	-1.939
50	2315	240	129	158	738	50	2508	229	144	287	723	50	2629	277	168	257	-1.949
50	2316	231	128	198	718	50	2509	257	148	299	795	50	2701	271	146	306	-1.821
50	2317	230	127	175	710	50	2510	258	151	283	760	50	2702	197	133	340	-1.654
50	2318	311	138	132	890	50	2511	355	160	097	859	50	2703	196	139	222	-1.711
50	2319	233	132	202	711	50	2512	268	150	195	828	50	2704	406	192	226	-1.138
50	2320	304	138	133	824	50	2513	313	126	069	899	50	2705	350	181	139	-1.370
50	2321	235	132	174	788	50	2514	263	148	185	796	50	2706	040	174	671	-1.693
50	2322	270	126	174	697	50	2515	354	159	119	895	50	2707	015	225	931	-1.714
50	2401	229	132	165	663	50	2516	259	148	172	844	50	2708	079	171	752	-1.807
50	2402	243	143	251	771	50	2517	239	146	190	816	50	2709	257	168	191	-1.137
50	2403	228	144	287	722	50	2518	341	157	232	962	50	2710	269	159	168	-1.958
50	2404	252	149	301	791	50	2519	273	151	117	929	50	2711	251	154	182	-1.875
50	2405	244	144	159	797	50	2520	276	149	210	840	50	2712	268	154	166	-1.851
50	2406	235	144	173	786	50	2521	271	147	240	790	50	2713	204	158	437	-1.875
50	2407	250	147	222	804	50	2522	222	142	276	713	50	2714	018	133	515	-1.526
50	2408	247	150	218	806	50	2523	260	144	217	814	50	2715	303	168	159	-1.970
50	2409	208	129	191	679	50	2524	240	139	283	754	50	2716	282	149	169	-1.957
50	2410	271	146	200	793	50	2525	306	142	181	789	50	2717	279	134	118	-1.743
50	2411	344	165	137	833	50	2526	180	143	290	649	50	2718	291	144	137	-1.806
50	2412	274	155	177	765	50	2527	203	145	342	893	50	2719	270	156	311	-1.857
50	2413	297	153	121	903	50	2528	261	157	246	930	50	2720	194	153	266	-1.961
50	2414	279	156	237	876	50	2529	294	166	123	953	50	2721	224	146	362	-1.677
50	2415	235	137	252	912	50	2530	278	159	137	856	50	2722	259	139	211	-1.734
50	2416	242	143	255	796	50	2601	293	162	257	902	50	2723	343	143	137	-1.852
50	2417	226	145	257	841	50	2602	301	166	243	960	50	2724	251	134	177	-1.739
50	2418	330	159	178	941	50	2603	352	182	286	1026	50	2725	127	149	684	-1.778



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	1213	310	172	306	-1.243	60	1304	255	133	255	-815	60	1355	180	205	619	-738
60	1214	309	192	367	-1.406	60	1305	267	144	208	-979	60	1356	294	156	143	-1.053
60	1215	340	160	167	-1.568	60	1306	264	131	172	-745	60	1357	359	186	198	-1.535
60	1216	335	104	033	-1.706	60	1307	269	132	158	-705	60	1358	244	188	433	-1.173
60	1217	353	166	148	-1.461	60	1308	326	143	121	-809	60	1359	118	161	506	-932
60	1218	384	183	135	-1.505	60	1309	336	169	149	-999	60	1360	076	164	439	-868
60	1219	380	204	130	-1.872	60	1310	302	169	172	-984	60	1401	262	145	209	-797
60	1220	333	146	101	-1.942	60	1311	281	151	222	-877	60	1402	245	144	216	-772
60	1221	344	148	102	-1.954	60	1312	328	151	210	-832	60	1403	288	154	220	-1.028
60	1222	376	160	078	-1.250	60	1313	294	151	228	-876	60	1404	255	151	215	-1.012
60	1223	374	170	147	-1.924	60	1314	371	157	120	-1.127	60	1405	277	149	243	-788
60	1224	376	176	073	-1.409	60	1315	293	153	186	-1.026	60	1406	258	145	245	-792
60	1225	391	157	095	-1.980	60	1316	331	143	122	-1.020	60	1407	296	148	201	-969
60	1226	416	160	083	-1.039	60	1317	337	141	118	-842	60	1408	257	146	259	-1.022
60	1227	412	166	258	-1.067	60	1318	374	145	126	-932	60	1409	276	141	153	-836
60	1228	388	172	095	-1.276	60	1319	367	149	138	-1.047	60	1410	274	137	141	-1.012
60	1229	405	187	059	-1.508	60	1320	347	165	148	-1.561	60	1411	308	136	093	-1.025
60	1230	456	185	055	-1.442	60	1321	345	143	102	-919	60	1412	216	103	095	-615
60	1231	461	198	072	-1.977	60	1322	367	144	107	-915	60	1413	262	144	185	-856
60	1232	468	179	121	-1.162	60	1323	369	146	069	-949	60	1414	254	146	202	-829
60	1233	472	200	098	-1.273	60	1324	352	162	114	-933	60	1415	309	145	185	-987
60	1234	467	205	075	-1.897	60	1325	364	146	065	-1.046	60	1416	328	143	133	-1.023
60	1235	551	187	041	-2.216	60	1326	388	162	081	-988	60	1417	285	136	199	-836
60	1236	529	195	060	-1.490	60	1327	372	161	095	-931	60	1418	276	147	172	-769
60	1237	549	211	011	-1.609	60	1328	381	156	064	-1.285	60	1419	304	146	139	-851
60	1238	530	216	203	-1.670	60	1329	400	163	067	-1.565	60	1420	373	136	066	-994
60	1239	528	235	117	-2.216	60	1330	447	167	091	-1.368	60	1421	327	129	137	-924
60	1240	563	222	001	-1.715	60	1331	410	174	141	-1.188	60	1422	315	136	135	-811
60	1241	589	249	437	-2.079	60	1332	419	181	180	-1.235	60	1423	307	140	146	-924
60	1242	530	275	348	-1.734	60	1333	432	184	135	-1.257	60	1424	356	151	140	-1.071
60	1243	588	229	501	-1.420	60	1334	455	199	159	-1.695	60	1425	383	151	086	-1.107
60	1244	444	247	201	-1.478	60	1335	458	176	105	-1.210	60	1426	372	151	103	-930
60	1245	428	232	367	-1.821	60	1336	509	146	126	-1.403	60	1427	341	145	145	-848
60	1246	433	208	216	-1.617	60	1337	477	139	102	-1.186	60	1428	387	156	121	-1.037
60	1247	428	225	488	-1.494	60	1338	406	134	044	-1.038	60	1429	368	157	123	-1.017
60	1248	191	183	400	-1.123	60	1339	471	141	073	-1.050	60	1430	430	170	132	-1.059
60	1249	279	159	232	-1.933	60	1340	492	159	054	-1.279	60	1431	400	162	170	-1.020
60	1250	232	167	254	-1.896	60	1341	502	163	014	-1.058	60	1432	414	156	173	-972
60	1251	169	169	249	-1.053	60	1342	418	154	050	-1.077	60	1433	387	166	224	-960
60	1252	155	165	311	-1.900	60	1343	522	172	014	-1.243	60	1434	379	172	119	-1.139
60	1253	180	180	394	-1.338	60	1344	495	182	125	-1.282	60	1435	468	199	107	-1.289
60	1254	162	162	393	-1.861	60	1345	455	155	141	-1.101	60	1436	434	132	084	-987
60	1255	143	143	653	-1.521	60	1346	477	168	052	-1.473	60	1437	447	177	055	-987
60	1256	143	143	688	-1.486	60	1347	456	187	114	-1.296	60	1438	418	188	097	-1.231
60	1257	153	153	635	-1.506	60	1348	473	178	114	-1.329	60	1439	414	171	101	-1.310
60	1258	161	161	662	-1.576	60	1349	373	170	338	-1.829	60	1440	450	200	111	-1.476
60	1259	144	144	403	-1.588	60	1350	241	170	343	-1.988	60	1441	418	203	201	-1.436
60	1260	151	151	115	-1.876	60	1351	296	134	180	-863	60	1442	369	180	197	-1.242
60	1302	158	158	253	-1.011	60	1352	369	142	067	-1.100	60	1443	390	185	260	-1.245
60	1303	165	165	234	-1.060	60	1353	317	145	134	-979	60	1444	369	197	283	-1.440
60	1304	154	154	154	-1.121	60	1354	154	121	216	-589	60					

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	1445	-298	185	206	-1.323	60	1536	-286	141	177	-0.841	60	1624	-346	163	235	-1.040
60	1446	-290	181	257	-1.047	60	1537	-309	148	123	-1.011	60	1625	-379	178	116	-1.476
60	1447	-269	167	253	-1.048	60	1538	-322	148	125	-1.094	60	1626	-338	159	111	-1.027
60	1448	-298	171	212	-1.013	60	1539	-301	148	122	-0.924	60	1627	-314	153	178	-1.073
60	1449	-279	178	229	-1.343	60	1540	-326	154	164	-1.055	60	1628	-310	151	226	-1.096
60	1450	-191	147	300	-0.820	60	1541	-302	150	151	-0.944	60	1629	-363	163	235	-1.240
60	1451	-219	150	256	-0.879	60	1542	-355	162	150	-1.113	60	1630	-411	205	202	-1.747
60	1452	-205	150	281	-0.769	60	1543	-309	150	122	-1.097	60	1631	-378	186	170	-1.193
60	1453	-249	182	291	-1.167	60	1544	-321	133	117	-0.934	60	1632	-350	174	212	-1.319
60	1454	-259	199	271	-1.211	60	1545	-306	132	129	-1.011	60	1633	-352	178	241	-1.204
60	1455	-224	137	162	-0.708	60	1546	-340	173	139	-1.426	60	1634	-401	189	143	-1.204
60	1456	-231	183	221	-1.082	60	1547	-339	177	166	-1.450	60	1635	-419	181	051	-1.101
60	1457	-199	154	252	-0.743	60	1548	-394	182	126	-1.337	60	1636	-451	181	010	-1.126
60	1458	-199	163	280	-0.861	60	1549	-290	146	283	-0.776	60	1637	-415	173	023	-1.104
60	1459	-243	183	266	-1.190	60	1550	-251	137	191	-0.759	60	1638	-458	199	112	-1.338
60	1501	-244	133	159	-0.723	60	1551	-285	140	134	-0.832	60	1639	-459	198	170	-1.284
60	1502	-226	131	194	-0.627	60	1552	-266	139	162	-0.769	60	1640	-377	193	285	-1.167
60	1503	-303	155	215	-0.942	60	1553	-271	137	282	-0.804	60	1641	-397	189	145	-1.297
60	1504	-310	159	263	-0.829	60	1554	-245	151	233	-0.834	60	1642	-544	220	119	-1.600
60	1505	-312	160	264	-0.829	60	1555	-222	144	233	-0.805	60	1643	-537	227	227	-1.618
60	1506	-232	130	258	-0.694	60	1556	-358	144	213	-0.828	60	1644	-510	250	208	-1.722
60	1507	-216	128	263	-0.653	60	1557	-324	158	183	-0.884	60	1701	-284	161	329	-1.330
60	1508	-251	130	232	-0.703	60	1558	-352	156	286	-0.879	60	1702	-304	216	610	-1.273
60	1509	-290	150	299	-0.843	60	1559	-234	151	266	-0.778	60	1703	-385	312	779	-1.833
60	1510	-304	154	251	-0.876	60	1560	-246	145	214	-0.749	60	1704	-104	295	287	-1.701
60	1511	-292	144	151	-0.834	60	1561	-184	144	273	-0.740	60	1705	-010	322	519	-1.784
60	1512	-294	146	135	-0.886	60	1562	-154	137	286	-0.655	60	1706	-211	219	725	-1.051
60	1513	-244	136	163	-0.788	60	1601	-341	169	213	-1.108	60	1707	-349	223	756	-1.248
60	1514	-278	136	155	-0.832	60	1602	-337	171	233	-1.187	60	1708	-344	249	680	-1.260
60	1515	-245	134	164	-0.803	60	1603	-399	186	299	-1.220	60	1709	-319	258	447	-1.602
60	1516	-287	138	102	-0.795	60	1604	-423	212	330	-1.592	60	1710	-316	261	523	-1.613
60	1517	-294	141	109	-0.827	60	1605	-288	150	266	-0.886	60	1711	-051	340	175	-1.075
60	1518	-301	140	233	-0.785	60	1606	-348	163	231	-1.027	60	1712	-271	301	073	-1.079
60	1519	-303	145	152	-0.788	60	1607	-367	165	264	-1.156	60	1713	-373	245	846	-1.098
60	1520	-270	141	168	-0.765	60	1608	-364	173	261	-1.048	60	1714	-310	232	559	-1.110
60	1521	-274	138	261	-0.822	60	1609	-446	189	223	-1.459	60	1715	-253	223	482	-1.311
60	1522	-262	139	254	-0.822	60	1610	-342	171	223	-1.282	60	1716	-116	307	172	-1.129
60	1523	-298	146	233	-0.896	60	1611	-325	162	201	-1.064	60	1717	-193	349	046	-1.427
60	1524	-274	143	248	-0.856	60	1612	-368	171	119	-1.071	60	1718	-322	300	782	-1.368
60	1525	-304	140	168	-0.888	60	1613	-399	189	330	-1.409	60	1719	-346	233	444	-1.249
60	1526	-282	139	114	-0.908	60	1614	-411	191	164	-1.427	60	1720	-332	239	463	-1.187
60	1527	-272	134	130	-0.813	60	1615	-336	184	229	-1.027	60	1721	-093	334	025	-1.187
60	1528	-310	138	091	-0.874	60	1616	-318	157	233	-1.145	60	1722	-228	310	087	-1.210
60	1529	-275	137	132	-0.829	60	1617	-347	157	189	-0.994	60	1723	-364	287	705	-1.330
60	1530	-294	152	249	-0.766	60	1618	-342	167	116	-1.174	60	1724	-338	243	350	-1.229
60	1531	-301	149	193	-0.950	60	1619	-357	189	215	-1.886	60	1725	-274	236	638	-1.041
60	1532	-278	147	225	-0.999	60	1620	-334	178	245	-1.602	60	1726	-099	256	316	-1.037
60	1533	-312	149	219	-0.867	60	1621	-364	173	220	-1.282	60	1727	-229	260	849	-1.059
60	1534	-281	147	213	-0.805	60	1622	-350	169	239	-1.034	60	1728	-318	234	609	-1.125
60	1535	-288	138	178	-0.847	60	1623	-350	160	216	-0.967	60	1729	-357	210	380	-1.117

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	1730	290	239	507	-1.110	60	18336	116	153	722	-469	60	2304	279	137	234	-776
60	1731	098	256	789	-1.030	60	18337	310	137	913	-077	60	2305	318	143	212	-891
60	1732	271	250	711	-1.161	60	18338	380	202	387	-314	60	2306	264	132	132	-710
60	1733	342	228	534	-1.165	60	18339	385	203	605	-184	60	2307	266	128	181	-702
60	1734	391	201	356	-1.141	60	1840	021	156	522	-551	60	2308	265	128	186	-699
60	1735	335	190	276	-1.086	60	1841	072	151	645	-358	60	2309	305	133	163	-751
60	1736	266	240	539	-1.200	60	1842	183	169	074	-281	60	2310	293	133	177	-734
60	1737	284	225	475	-1.165	60	1843	244	193	983	-252	60	2311	334	163	166	-941
60	1738	328	213	436	-1.210	60	1844	246	208	087	-342	60	2312	353	162	144	-936
60	1739	320	196	317	-1.092	60	1845	055	159	730	-439	60	2313	368	146	065	-020
60	1740	319	195	305	-1.041	60	1846	053	156	688	-416	60	2314	320	149	142	-874
60	1741	027	224	232	-1.799	60	1847	059	152	750	-458	60	2315	236	140	280	-661
60	1742	349	243	478	-1.633	60	1848	072	162	715	-515	60	2316	235	133	219	-741
60	1743	334	224	421	-1.517	60	1849	076	164	707	-529	60	2317	237	136	210	-683
60	1744	237	230	513	-1.148	60	1850	020	139	542	-463	60	2318	344	150	153	-1028
60	1801	015	245	977	-1.879	60	1851	007	146	684	-471	60	2319	240	137	238	-775
60	1802	186	280	209	-1.805	60	1852	025	147	622	-444	60	2320	322	143	161	-849
60	1803	338	308	352	-1.611	60	1853	019	160	681	-663	60	2321	242	134	197	-716
60	1804	259	313	354	-1.704	60	1854	020	175	737	-033	60	2322	245	148	238	-844
60	1805	083	206	939	-1.493	60	1900	284	143	251	-840	60	2401	375	149	256	-883
60	1806	190	213	054	-1.444	60	1902	419	168	119	-1180	60	2402	386	150	286	-932
60	1807	259	225	182	-1.431	60	1903	353	171	287	-1385	60	2403	371	151	216	-850
60	1808	288	235	192	-1.452	60	1904	276	144	230	-802	60	2404	311	157	208	-962
60	1809	260	233	274	-1.433	60	1905	320	173	219	-1379	60	2405	309	150	193	-880
60	1810	117	224	201	-1.426	60	1906	300	171	199	-1120	60	2406	296	148	191	-869
60	1811	288	228	201	-1.433	60	1908	307	183	221	-1216	60	2407	324	153	221	-898
60	1812	510	248	220	-1.628	60	1909	337	168	128	-1184	60	2408	311	153	193	-884
60	1813	469	256	374	-1.388	60	1910	278	144	129	-858	60	2409	300	157	270	-1053
60	1814	457	265	447	-1.388	60	1911	330	135	081	-1154	60	2410	347	167	211	-1136
60	1815	131	207	622	-1.433	60	1911	330	135	163	-1152	60	2411	424	161	104	-974
60	1816	298	206	115	-1.435	60	1912	325	144	070	-866	60	2412	362	162	118	-1229
60	1817	480	226	415	-1.213	60	1913	309	174	245	-1135	60	2413	333	168	167	-879
60	1818	527	234	459	-1.196	60	1914	386	179	150	-042	60	2414	313	167	155	-892
60	1819	559	273	618	-1.118	60	1915	405	246	254	-440	60	2415	333	153	243	-1043
60	1820	116	197	206	-1.451	60	1917	323	135	113	-814	60	2416	276	138	195	-853
60	1821	246	189	252	-1.257	60	1918	321	173	134	-1210	60	2417	388	134	196	-909
60	1822	460	213	311	-1.467	60	1919	274	295	391	-714	60	2418	380	145	090	-1125
60	1823	507	223	419	-1.433	60	1920	347	174	343	-1160	60	2419	285	165	274	-862
60	1824	481	231	543	-1.343	60	1921	454	210	121	-1287	60	2420	244	170	191	-869
60	1825	056	215	789	-1.351	60	1922	421	210	182	-1461	60	2421	340	175	122	-1014
60	1826	238	202	983	-1.455	60	1924	460	228	188	-1758	60	2422	245	155	180	-797
60	1827	398	201	334	-1.453	60	1925	364	181	188	-1285	60	2423	281	156	205	-1103
60	1828	440	212	206	-1.210	60	1927	331	200	359	-1771	60	2424	369	156	208	-1098
60	1829	412	219	366	-1.208	60	1928	353	314	415	-1685	60	2425	333	113	181	-678
60	1830	027	173	666	-1.333	60	1929	216	244	553	-1359	60	2426	333	108	280	-628
60	1831	166	172	886	-1.333	60	1930	289	225	398	-1246	60	2427	333	113	216	-573
60	1832	357	180	187	-1.183	60	2301	390	183	271	-1285	60	2428	333	108	171	-583
60	1833	412	198	331	-1.179	60	2302	308	133	168	-728	60	2429	333	116	193	-621
60	1834	464	248	779	-1.178	60	2303	288	131	208	-721	60	2430	333	122	167	-670
60	1835	060	187	543	-1.442	60	2304	290	136	211	-830	60	2431	333	135	192	-743



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	2432	212	128	171	- 727	60	2618	432	213	125	- 590	60	2739	048	131	430	499
60	2433	228	127	242	- 866	60	2619	422	217	129	- 651	60	2801	026	171	731	477
60	2434	215	128	190	- 734	60	2620	205	131	250	- 687	60	2802	213	211	119	640
60	2435	149	125	245	- 794	60	2621	222	141	212	- 716	60	2803	167	270	329	641
60	2501	325	166	192	- 042	60	2622	233	150	219	- 895	60	2804	022	250	222	784
60	2502	308	158	170	- 976	60	2623	424	189	128	- 308	60	2805	085	138	367	601
60	2503	303	162	205	- 915	60	2624	353	173	169	- 246	60	2806	005	166	613	566
60	2504	318	164	263	- 055	60	2625	353	138	205	- 694	60	2807	156	205	961	611
60	2505	346	165	240	- 077	60	2626	353	141	238	- 829	60	2808	127	277	253	311
60	2506	319	164	271	- 031	60	2627	353	167	289	- 430	60	2809	335	233	340	518
60	2507	308	151	155	- 820	60	2628	330	167	232	- 547	60	2810	313	140	148	810
60	2508	298	155	170	- 917	60	2629	330	178	224	- 186	60	2811	151	128	290	577
60	2509	352	168	146	- 005	60	2630	330	163	409	- 891	60	2812	051	143	490	70
60	2510	339	167	211	- 066	60	2631	330	152	459	- 736	60	2813	019	156	570	555
60	2511	418	174	064	- 027	60	2632	330	163	577	- 672	60	2814	188	160	401	708
60	2512	315	160	142	- 889	60	2633	341	170	315	- 132	60	2815	206	132	215	355
60	2513	334	131	114	- 909	60	2634	373	206	499	- 166	60	2816	127	128	278	84
60	2514	283	162	233	- 956	60	2635	026	174	652	- 751	60	2817	129	141	373	530
60	2515	394	178	163	- 227	60	2636	026	174	945	- 743	60	2818	031	140	466	477
60	2516	302	150	175	- 825	60	2637	037	175	567	- 669	60	2819	143	155	437	701
60	2517	280	148	169	- 774	60	2638	228	175	370	- 221	60	2820	158	130	285	589
60	2518	400	163	085	- 943	60	2639	294	147	095	- 300	60	2821	116	130	354	521
60	2519	320	157	114	- 862	60	2640	222	143	107	- 362	60	2822	027	131	438	449
60	2520	293	170	190	- 953	60	2641	300	144	098	- 172	60	2823	051	143	600	524
60	2521	322	153	187	- 081	60	2642	173	147	286	- 806	60	2824	096	142	458	604
60	2522	269	146	263	- 948	60	2643	065	140	564	- 485	60	2901	262	143	185	821
60	2523	295	156	218	- 929	60	2644	274	176	444	- 976	60	2902	267	142	198	700
60	2524	275	151	229	- 875	60	2645	274	176	305	- 885	60	2903	268	154	273	845
60	2525	348	155	184	- 925	60	2646	307	139	156	- 755	60	2904	271	162	288	925
60	2526	188	160	428	- 079	60	2647	304	146	152	- 884	60	2905	269	155	290	747
60	2527	215	142	265	- 777	60	2648	286	164	270	- 879	60	2906	257	152	275	332
60	2528	269	151	157	- 937	60	2649	217	166	318	- 841	60	2907	336	160	169	832
60	2529	296	149	133	- 981	60	2650	241	155	313	- 932	60	2908	321	161	175	939
60	2530	280	144	137	- 873	60	2651	265	141	267	- 811	60	2909	318	144	143	868
60	2601	341	172	209	- 000	60	2652	377	145	191	- 923	60	2910	327	145	158	833
60	2602	331	174	220	- 046	60	2653	354	134	258	- 738	60	2911	293	160	159	36
60	2603	420	193	208	- 269	60	2654	366	143	258	- 673	60	2912	328	155	180	943
60	2604	462	209	153	- 496	60	2655	455	141	418	- 675	60	2913	309	201	259	477
60	2605	363	185	158	- 253	60	2656	182	142	349	- 808	60	2914	224	151	304	793
60	2606	383	197	161	- 312	60	2657	271	172	259	- 164	60	2915	388	215	276	440
60	2607	434	212	153	- 705	60	2658	299	167	247	- 111	60	2916	182	152	286	727
60	2608	415	195	154	- 451	60	2659	339	163	262	- 986	60	2917	286	163	329	868
60	2609	422	211	142	- 942	60	2660	333	149	480	- 597	60	2918	412	215	329	410
60	2610	297	160	186	- 038	60	2661	036	144	408	- 567	60	2919	447	284	346	604
60	2611	342	164	227	- 069	60	2662	066	148	390	- 605	60	2920	503	253	470	837
60	2612	380	185	239	- 160	60	2663	121	166	475	- 658	60	2921	305	219	345	333
60	2613	543	217	159	- 529	60	2664	258	162	386	- 089	60	2922	152	312	698	297
60	2615	280	155	202	- 806	60	2665	297	184	200	- 473	60	2923	304	179	360	129
60	2616	380	179	234	- 051	60	2666	071	138	358	- 590	60	2924	454	250	485	547
60	2617	337	187	331	- 170	60	2667	054	133	346	- 478	60	2925	395	221	255	305

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	2926	109	185	928	913	70	1142	126	159	773	383	70	1226	409	152	151	-1.078
60	2927	248	171	571	910	70	1143	301	205	1.085	331	70	1227	405	158	160	-1.046
60	2928	295	155	205	960	70	1144	314	216	1.143	373	70	1228	395	165	074	-1.205
60	2930	034	145	498	484	70	1145	352	190	1.018	272	70	1229	411	180	050	-1.570
60	2931	053	109	427	308	70	1146	287	177	898	195	70	1230	468	169	004	-1.359
60	2932	063	120	657	366	70	1147	309	191	974	323	70	1231	455	168	082	-1.270
60	2933	019	103	506	391	70	1148	102	176	684	509	70	1232	509	210	011	-1.783
60	2934	091	103	554	325	70	1149	211	189	842	456	70	1233	506	205	108	-1.479
60	2935	024	106	360	398	70	1150	246	202	1.018	570	70	1234	464	212	161	-1.592
70	1101	102	268	1.123	834	70	1151	252	178	934	334	70	1235	518	213	122	-1.507
70	1102	084	245	949	679	70	1152	181	172	788	405	70	1236	550	215	019	-1.575
70	1103	141	181	696	487	70	1153	213	181	882	365	70	1237	539	206	096	-1.346
70	1104	013	145	600	524	70	1154	094	165	701	431	70	1238	527	218	176	-1.588
70	1105	100	128	457	522	70	1155	096	161	743	422	70	1239	523	236	280	-1.827
70	1106	092	200	938	536	70	1156	084	177	906	477	70	1240	574	229	073	-2.414
70	1107	082	200	847	509	70	1157	104	161	855	410	70	1241	595	216	040	-1.774
70	1108	088	227	1.143	505	70	1158	092	154	810	380	70	1242	563	235	387	-1.984
70	1109	237	229	886	588	70	1159	115	161	923	353	70	1243	466	231	211	-1.381
70	1110	228	187	1.029	269	70	1160	009	151	646	551	70	1244	488	219	256	-1.577
70	1111	237	186	1.021	333	70	1161	123	159	798	362	70	1245	492	274	238	-2.335
70	1112	117	157	786	356	70	1162	129	161	769	348	70	1246	467	244	201	-1.876
70	1113	106	229	1.030	602	70	1163	073	157	922	404	70	1247	313	271	655	-1.835
70	1114	126	241	1.010	612	70	1164	034	144	670	385	70	1248	234	222	448	-1.172
70	1115	255	288	1.298	781	70	1165	057	147	693	412	70	1249	307	193	259	-1.078
70	1116	385	212	1.134	401	70	1166	072	142	743	353	70	1250	240	168	269	-1.956
70	1117	513	236	1.380	189	70	1201	311	168	280	1.036	70	1251	227	168	266	-1.012
70	1118	261	179	1.057	350	70	1202	305	160	243	998	70	1252	212	161	422	-1.002
70	1119	214	260	1.254	692	70	1203	252	156	266	1.063	70	1253	216	180	389	-1.835
70	1120	172	284	1.428	748	70	1204	260	148	291	1.063	70	1254	265	153	327	-1.066
70	1121	349	276	1.376	910	70	1205	360	160	084	1.333	70	1255	043	137	577	-1.510
70	1122	361	194	1.054	208	70	1206	351	157	091	1.242	70	1256	039	142	689	-1.439
70	1123	375	202	1.090	374	70	1207	364	165	189	1.231	70	1257	008	162	806	-1.548
70	1124	287	196	974	476	70	1208	362	171	127	1.477	70	1258	066	143	498	-1.569
70	1125	276	245	1.256	451	70	1209	367	187	130	1.681	70	1259	108	151	483	-1.600
70	1126	274	257	1.423	563	70	1210	235	142	206	1.787	70	1301	368	149	111	-1.990
70	1127	379	217	1.099	528	70	1211	235	148	153	894	70	1302	342	151	122	-1.058
70	1128	329	185	998	315	70	1212	252	151	291	990	70	1303	346	157	157	-1.047
70	1129	348	196	1.031	338	70	1213	277	162	243	966	70	1304	215	134	201	-1.661
70	1130	246	181	915	450	70	1214	269	175	269	1.059	70	1305	213	122	176	-1.703
70	1131	245	243	1.278	404	70	1215	324	154	164	1.007	70	1306	224	133	198	-1.692
70	1132	253	229	993	435	70	1216	342	124	002	949	70	1307	217	134	202	-1.670
70	1133	319	204	935	392	70	1217	315	156	181	1.194	70	1308	279	143	162	-1.761
70	1134	260	178	833	251	70	1218	347	167	197	1.320	70	1309	285	151	218	-1.989
70	1135	291	183	882	255	70	1219	339	179	263	1.433	70	1310	240	148	228	-1.057
70	1136	202	168	956	271	70	1220	343	149	213	957	70	1311	208	122	173	-1.780
70	1137	262	214	1.459	361	70	1221	345	151	207	1.042	70	1312	267	125	138	-1.807
70	1138	264	229	1.607	550	70	1222	377	160	206	1.069	70	1313	223	122	166	-1.748
70	1139	303	203	1.343	283	70	1223	376	170	186	1.175	70	1314	332	148	086	-1.964
70	1140	255	180	1.150	310	70	1224	362	182	269	1.765	70	1315	260	145	257	-1.961
70	1141	297	176	989	218	70	1225	384	149	172	998	70	1316	308	142	142	-1.882

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	1317	313	140	127	-896	70	1408	217	136	225	-105	70	1458	168	163	317	-781
70	1318	346	145	100	-1006	70	1409	244	145	322	-791	70	1459	203	177	294	-1053
70	1319	337	145	123	-1129	70	1410	235	142	248	-865	70	1501	229	136	189	-778
70	1320	330	140	263	-979	70	1411	282	145	209	-842	70	1502	204	133	230	-801
70	1321	327	151	182	-1340	70	1412	227	098	194	-576	70	1503	347	169	140	-1106
70	1322	347	152	180	-1235	70	1413	240	141	289	-864	70	1504	336	163	265	-893
70	1323	344	155	158	-1125	70	1414	229	140	266	-840	70	1505	336	164	296	-870
70	1324	364	163	083	-1066	70	1415	300	132	168	-781	70	1506	243	152	257	-1186
70	1325	329	140	160	-959	70	1416	327	133	145	-731	70	1507	218	146	264	-1018
70	1326	388	146	043	-994	70	1417	287	129	182	-682	70	1508	267	147	217	-999
70	1327	372	143	059	-1036	70	1418	293	126	136	-763	70	1509	314	149	162	-915
70	1328	368	151	073	-1079	70	1419	341	141	132	-1000	70	1510	329	155	204	-915
70	1329	389	154	053	-1295	70	1420	339	133	137	-853	70	1511	327	160	231	-933
70	1330	433	182	100	-1466	70	1421	301	127	176	-766	70	1512	331	164	247	-960
70	1331	461	194	133	-1450	70	1422	310	128	073	-794	70	1513	227	140	296	-901
70	1332	479	185	069	-1097	70	1423	306	129	112	-783	70	1514	272	143	260	-749
70	1333	479	186	061	-1205	70	1424	354	136	103	-950	70	1515	221	137	284	-661
70	1334	497	196	064	-1452	70	1425	365	157	119	-952	70	1516	321	149	197	-871
70	1335	513	176	004	-1316	70	1426	347	147	142	-993	70	1517	327	152	192	-885
70	1336	413	173	001	-1182	70	1427	328	139	088	-918	70	1518	327	154	187	-953
70	1337	488	163	012	-1113	70	1428	379	152	094	-1069	70	1519	332	139	059	-903
70	1338	413	159	052	-1089	70	1429	362	156	118	-1072	70	1520	297	134	068	-877
70	1339	489	172	002	-1150	70	1430	388	152	054	-989	70	1521	293	131	169	-771
70	1340	496	161	022	-1096	70	1431	358	145	083	-880	70	1522	278	134	201	-740
70	1341	534	181	036	-1646	70	1432	373	144	663	-951	70	1523	314	142	148	-844
70	1342	435	170	066	-1267	70	1433	345	151	133	-1008	70	1524	291	141	145	-851
70	1343	556	179	034	-1325	70	1434	383	166	139	-1197	70	1525	329	136	098	-1038
70	1344	556	195	056	-1561	70	1435	431	177	083	-1214	70	1526	295	139	107	-996
70	1345	408	172	157	-1309	70	1436	421	151	103	-1197	70	1527	281	137	122	-843
70	1346	513	195	091	-1470	70	1437	410	169	088	-1185	70	1528	315	143	134	-896
70	1347	522	213	082	-1525	70	1438	364	172	159	-1301	70	1529	280	140	210	-770
70	1348	426	187	346	-1256	70	1439	401	198	237	-1267	70	1530	309	148	154	-1089
70	1349	272	178	392	-1073	70	1440	443	226	204	-2002	70	1531	378	163	139	-1050
70	1350	147	154	254	-868	70	1441	418	195	145	-1176	70	1532	350	161	235	-1166
70	1351	315	154	129	-973	70	1442	372	182	185	-1037	70	1533	391	162	145	-1017
70	1352	284	150	213	-870	70	1443	388	199	237	-1349	70	1534	360	159	068	-934
70	1353	122	123	299	-561	70	1444	373	210	239	-1382	70	1535	341	154	143	-1112
70	1354	203	126	596	-836	70	1445	322	193	332	-1219	70	1536	340	160	187	-1451
70	1355	299	197	295	-1193	70	1446	284	168	165	-1205	70	1537	366	161	209	-1289
70	1356	357	204	248	-1308	70	1447	265	157	199	-926	70	1538	385	162	113	-1066
70	1357	266	177	447	-1009	70	1448	283	164	203	-1021	70	1539	386	171	049	-1235
70	1358	113	148	416	-631	70	1449	267	176	188	-1015	70	1540	401	176	146	-1301
70	1360	080	151	493	-594	70	1450	217	160	203	-1015	70	1541	364	165	130	-1188
70	1401	225	134	205	-736	70	1451	242	162	302	-966	70	1542	427	188	098	-1720
70	1402	204	133	205	-718	70	1452	234	169	208	-974	70	1543	335	158	241	-925
70	1403	254	141	153	-926	70	1453	220	173	320	-963	70	1544	353	156	141	-1055
70	1404	212	137	186	-826	70	1454	227	193	350	-1599	70	1545	363	158	095	-945
70	1405	233	135	223	-898	70	1455	228	141	212	-803	70	1546	448	214	305	-1928
70	1406	213	133	233	-900	70	1456	218	192	353	-1088	70	1547	463	228	107	-1706
70	1407	265	139	193	-1120	70	1457	193	172	314	-1074	70	1548	506	226	128	-1968



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	1549	-.282	.170	.223	-.921	70	1637	-.551	.203	1.106	-1.500	70	1743	.230	.224	.596	-1.016
70	1550	-.276	.145	.175	-.940	70	1638	-.546	.220	.071	-1.573	70	1744	-.122	.206	.658	-.587
70	1555	-.309	.145	.172	-.814	70	1639	-.543	.220	.021	-1.583	70	1801	.001	.224	.975	-.587
70	15551	-.284	.141	.186	-.817	70	1640	-.337	.219	.412	-1.232	70	1802	.114	.252	1.091	-.608
70	15552	-.257	.140	.256	-.731	70	1641	-.353	.211	.341	-1.116	70	1803	.199	.301	1.401	-.563
70	15553	-.236	.147	.299	-.852	70	1642	-.630	.259	.293	-1.673	70	1804	.108	.278	1.313	-.601
70	15554	-.211	.138	.272	-.772	70	1643	-.652	.252	.183	-1.619	70	1805	.194	.213	.994	-.503
70	15555	-.237	.133	.175	-.827	70	1644	-.589	.267	.215	-1.873	70	1806	.259	.217	1.070	-.397
70	15556	-.312	.144	.164	-.832	70	1701	-.201	.169	.552	-.935	70	1807	.295	.221	1.114	-.399
70	15557	-.241	.148	.306	-1.019	70	1702	-.161	.178	.539	-.898	70	1808	.233	.223	1.060	-.407
70	15558	-.224	.149	.251	-1.237	70	1703	-.120	.222	.577	-1.073	70	1809	.245	.213	.970	-.400
70	15559	-.224	.138	.317	-.811	70	1704	-.166	.301	1.278	-.732	70	1810	.272	.232	1.171	-.417
70	1560	-.160	.136	.351	-.706	70	1705	-.073	.310	1.363	-.751	70	1811	.396	.234	1.281	-.298
70	1562	-.136	.142	.285	-.647	70	1706	-.099	.257	1.004	-.773	70	1812	.530	.247	1.389	-.339
70	1601	-.390	.181	.233	-1.281	70	1707	-.246	.224	.767	-1.100	70	1813	.477	.256	1.464	-.260
70	1602	-.392	.186	.288	-1.467	70	1708	-.201	.210	.628	-1.426	70	1814	.420	.252	1.362	-.368
70	1603	-.434	.182	.137	-1.355	70	1709	-.129	.238	.670	-1.045	70	1815	.273	.213	1.052	-.491
70	1604	-.432	.198	.124	-1.402	70	1710	-.117	.244	.641	-.989	70	1816	.406	.216	1.250	-.195
70	1605	-.270	.164	.244	-1.271	70	1711	-.276	.296	1.431	-.815	70	1817	.532	.238	1.399	-.118
70	1606	-.337	.170	.175	-1.045	70	1712	-.004	.322	1.256	-1.084	70	1818	.521	.240	1.234	-.150
70	1607	-.395	.178	.294	-1.357	70	1713	-.193	.326	.823	-1.206	70	1819	.464	.256	1.539	-.269
70	1608	-.349	.174	.220	-1.266	70	1714	-.080	.233	.800	-.882	70	1820	.268	.221	1.250	-.318
70	1609	-.447	.192	.162	-1.424	70	1715	-.069	.253	1.026	-.883	70	1821	.370	.209	1.148	-.183
70	1610	-.364	.172	.210	-1.176	70	1716	-.221	.258	1.491	-.740	70	1822	.515	.220	1.363	-.197
70	1611	-.352	.161	.197	-1.106	70	1717	-.060	.302	1.263	-1.124	70	1823	.530	.230	1.412	-.134
70	1612	-.410	.173	.176	-1.274	70	1718	-.079	.299	.916	-1.055	70	1824	.472	.233	1.396	-.211
70	1613	-.483	.209	.154	-1.505	70	1719	-.129	.245	.816	-1.231	70	1825	.179	.227	1.078	-.423
70	1614	-.473	.206	.151	-1.458	70	1720	-.118	.243	.682	-1.038	70	1826	.322	.218	1.147	-.253
70	1615	-.363	.173	.114	-1.208	70	1721	-.099	.279	.977	-1.063	70	1827	.470	.231	1.475	-.140
70	1616	-.344	.166	.157	-1.067	70	1722	-.033	.318	1.128	-1.132	70	1828	.465	.238	1.422	-.122
70	1617	-.384	.174	.069	-1.092	70	1723	-.103	.306	.989	-1.123	70	1829	.410	.244	1.438	-.162
70	1618	-.389	.188	.123	-1.827	70	1724	-.113	.251	.916	-.945	70	1830	.116	.217	1.094	-.508
70	1619	-.427	.257	.200	-2.004	70	1725	-.081	.255	1.046	-.966	70	1831	.277	.203	1.093	-.340
70	1620	-.364	.187	.196	-1.565	70	1726	-.091	.221	.795	-1.170	70	1832	.412	.217	1.366	-.193
70	1621	-.389	.178	.117	-1.401	70	1727	-.065	.249	.896	-1.024	70	1833	.413	.223	1.413	-.195
70	1622	-.360	.176	.188	-1.465	70	1728	-.158	.238	.675	-1.067	70	1834	.384	.207	1.140	-.574
70	1623	-.398	.179	.281	-1.491	70	1729	-.221	.264	.565	-1.088	70	1835	.033	.177	.836	-.388
70	1624	-.355	.161	.144	-1.125	70	1730	-.132	.247	.779	-.891	70	1836	.219	.192	.923	-.502
70	1625	-.458	.209	.172	-1.712	70	1731	-.001	.258	.878	-1.021	70	1837	.380	.171	.975	-.025
70	1626	-.410	.183	.169	-1.334	70	1732	-.067	.280	1.048	-1.100	70	1838	.416	.220	1.360	-.181
70	1627	-.366	.167	.153	-1.188	70	1733	-.154	.283	1.034	-1.283	70	1839	.395	.222	1.153	-.388
70	1628	-.357	.158	.150	-1.154	70	1734	-.243	.255	1.133	-1.180	70	1840	.074	.178	.596	-.459
70	1629	-.403	.166	.111	-1.275	70	1735	-.203	.222	.947	-.883	70	1841	.162	.177	.804	-.357
70	1630	-.504	.242	.108	-1.607	70	1736	-.179	.246	.719	-1.028	70	1842	.267	.204	1.078	-.314
70	1631	-.490	.234	.130	-1.695	70	1737	-.166	.248	.849	-1.173	70	1843	.286	.176	.993	-.299
70	1632	-.454	.211	.139	-1.474	70	1738	-.214	.202	.683	-1.036	70	1844	.300	.217	1.240	-.369
70	1633	-.467	.215	.135	-1.787	70	1739	-.219	.205	.580	-1.046	70	1845	.111	.161	.724	-.454
70	1634	-.515	.228	.105	-1.991	70	1740	-.214	.205	.576	-.999	70	1846	.108	.159	.723	-.448
70	1635	-.529	.210	.175	-1.443	70	1741	-.019	.188	.872	-.616	70	1847	.114	.167	.732	-.367
70	1636	-.560	.208	.055	-1.545	70	1742	-.190	.215	.636	-1.500	70	1848	.136	.178	.820	-.487

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	1849	142	179	827	440	70	2317	220	137	197	725	70	2510	345	168	212	017
70	1850	073	147	649	346	70	2318	218	139	198	736	70	2511	316	159	215	833
70	1851	065	147	592	418	70	2319	243	144	267	859	70	2512	325	166	175	984
70	1852	084	150	641	400	70	2320	214	144	262	997	70	2513	325	161	165	220
70	1853	090	168	791	531	70	2321	230	146	250	866	70	2514	344	178	175	089
70	1854	049	179	785	797	70	2322	205	136	223	698	70	2515	344	184	109	117
70	1901	251	142	188	820	70	2323	205	163	115	014	70	2516	276	153	166	841
70	1902	372	157	144	043	70	2324	208	167	300	912	70	2517	273	153	198	804
70	1903	307	160	153	266	70	2325	208	164	207	857	70	2518	275	155	179	866
70	1904	237	147	301	970	70	2326	209	171	185	970	70	2519	304	164	197	054
70	1905	258	158	205	159	70	2327	209	164	153	865	70	2520	296	165	155	046
70	1906	265	171	238	044	70	2328	209	160	166	833	70	2521	191	146	340	710
70	1907	265	175	213	122	70	2329	209	165	158	868	70	2522	226	148	289	022
70	1908	324	185	251	166	70	2330	209	164	173	825	70	2523	281	173	268	339
70	1909	225	139	201	932	70	2331	209	162	290	857	70	2524	290	176	218	166
70	1910	345	157	117	115	70	2332	383	184	102	098	70	2525	241	159	268	333
70	1911	441	223	333	142	70	2333	299	178	217	977	70	2526	160	154	382	070
70	1912	337	151	094	905	70	2334	349	186	137	330	70	2527	177	148	331	706
70	1913	266	166	218	971	76	2335	356	169	111	943	70	2528	228	156	330	810
70	1914	411	190	161	168	70	2336	354	170	170	961	70	2529	264	162	338	948
70	1915	395	241	460	422	70	2337	255	161	178	901	70	2530	252	157	318	898
70	1916	344	148	119	858	70	2338	255	168	170	136	70	2531	330	171	271	174
70	1917	289	165	288	809	70	2339	333	162	189	948	70	2532	294	172	277	112
70	1918	166	268	091	751	70	2340	333	163	171	868	70	2533	410	212	250	371
70	1919	384	177	189	035	70	2341	259	163	365	870	70	2534	469	231	233	469
70	1920	480	199	097	344	70	2342	247	168	244	174	70	2535	426	218	230	600
70	1921	458	188	110	163	70	2343	224	156	258	859	70	2536	447	237	182	769
70	1922	478	199	096	377	70	2344	219	150	211	800	70	2537	526	271	207	154
70	1923	438	198	249	259	70	2345	244	170	296	118	70	2538	524	266	286	136
70	1924	393	193	115	651	70	2346	247	170	283	088	70	2539	536	278	495	075
70	1925	080	227	481	227	70	2347	203	132	228	694	70	2540	344	178	141	233
70	1926	133	207	536	142	70	2348	193	127	235	658	70	2541	317	177	318	096
70	1927	053	233	889	885	70	2349	137	123	296	598	70	2542	381	204	289	244
70	1928	413	191	155	377	70	2350	139	130	316	648	70	2543	411	214	291	233
70	2301	295	134	194	695	70	2351	167	114	250	643	70	2544	273	154	233	961
70	2302	266	130	218	700	70	2352	187	121	386	596	70	2545	280	158	256	992
70	2303	256	132	170	700	70	2353	167	146	350	869	70	2546	358	187	189	157
70	2304	251	132	164	725	70	2354	209	137	219	748	70	2547	387	229	158	720
70	2305	310	142	122	748	70	2355	226	127	179	712	70	2548	384	234	177	790
70	2306	267	132	134	749	70	2356	213	127	194	777	70	2549	206	142	274	855
70	2307	254	133	240	796	70	2357	216	123	273	715	70	2550	183	127	233	609
70	2308	257	135	240	753	70	2358	141	123	175	110	70	2551	218	139	211	433
70	2309	312	142	219	823	70	2359	310	158	281	964	70	2552	273	158	220	888
70	2310	293	143	221	801	70	2360	167	167	314	132	70	2553	357	173	209	955
70	2311	355	153	183	019	70	2361	314	169	292	920	70	2554	193	148	325	840
70	2312	378	158	179	074	70	2362	315	170	249	911	70	2555	184	148	359	900
70	2313	378	166	096	045	70	2363	324	164	272	866	70	2556	248	168	318	990
70	2314	328	163	127	906	70	2364	310	158	109	992	70	2557	292	181	237	432
70	2315	216	134	249	681	70	2365	307	162	209	067	70	2558	309	164	257	130
70	2316	203	128	200	629	70	2366	371	172	191	088	70	2559	290	182	346	974

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	2702	.154	.168	.530	-.746	70	2813	-.008	.163	.690	-.531	80	1105	-.121	.133	.331	-.641
70	2703	-.112	.163	.582	-.878	70	2814	-.053	.157	.669	-.541	80	1106	-.029	.204	1.048	-.867
70	2704	-.332	.224	.410	-1.232	70	2815	-.170	.134	.639	-.670	80	1107	-.036	.202	1.019	-.869
70	2705	-.306	.222	.416	-1.634	70	2816	-.110	.131	.639	-.586	80	1108	-.058	.207	1.013	-.909
70	2706	-.022	.190	.782	-.678	70	2817	-.012	.138	.549	-.438	80	1109	.103	.259	.956	-.713
70	2707	-.091	.250	1.269	-.907	70	2818	-.004	.150	.535	-.473	80	1110	.173	.199	.922	-.529
70	2708	-.032	.182	.803	-.685	70	2819	-.093	.154	.477	-.860	80	1111	.204	.200	1.130	-.392
70	2709	-.198	.180	.446	-1.340	70	2820	-.113	.136	.324	-.566	80	1112	.114	.166	.882	-.428
70	2710	-.376	.175	.255	-1.273	70	2821	-.069	.135	.423	-.549	80	1113	.001	.213	.819	-.653
70	2711	-.348	.166	.231	-1.099	70	2822	-.025	.137	.518	-.482	80	1114	.001	.218	.955	-.567
70	2712	-.389	.167	.194	-1.222	70	2823	-.009	.158	.640	-.511	80	1115	.092	.304	1.117	-.866
70	2713	-.174	.153	.293	-.966	70	2824	-.071	.152	.469	-.734	80	1116	.300	.256	1.204	-.753
70	2714	-.122	.143	.570	-.353	70	2901	-.262	.152	.296	-.859	80	1117	.457	.258	1.775	-.310
70	2715	-.110	.161	.481	-.707	70	2902	-.270	.170	.321	-.859	80	1118	.265	.193	1.016	-.512
70	2716	-.236	.170	.433	-.822	70	2903	-.242	.145	.292	-.819	80	1119	.050	.223	1.264	-.601
70	2717	-.255	.154	.371	-.791	70	2904	-.234	.154	.270	-.819	80	1120	.003	.238	1.507	-.691
70	2718	-.258	.147	.221	-.744	70	2905	-.234	.139	.265	-.769	80	1121	.181	.275	1.327	-.772
70	2719	-.165	.152	.333	-.795	70	2906	-.231	.142	.289	-.788	80	1122	.291	.249	1.181	-.696
70	2720	-.224	.171	.266	-.910	70	2907	-.311	.141	.104	-.795	80	1123	.338	.193	1.193	-.565
70	2721	-.237	.156	.239	-.886	70	2908	-.289	.139	.123	-.793	80	1124	.260	.223	1.089	-.632
70	2722	-.267	.149	.212	-1.063	70	2909	-.323	.148	.173	-.882	80	1125	.089	.236	.922	-.565
70	2723	-.232	.139	.280	-.804	70	2910	-.330	.152	.170	-.907	80	1126	.082	.242	1.166	-.651
70	2724	-.230	.139	.274	-.727	70	2911	-.249	.137	.249	-.799	80	1127	.210	.280	.980	-.848
70	2725	-.112	.146	.446	-.674	70	2912	-.340	.169	.143	-.155	80	1128	.253	.196	.993	-.870
70	2726	-.109	.144	.337	-.672	70	2913	-.309	.190	.262	-.417	80	1129	.284	.198	1.069	-.697
70	2727	-.138	.144	.341	-.717	70	2914	-.216	.155	.368	-.959	80	1130	.194	.179	.975	-.549
70	2728	-.229	.151	.359	-.842	70	2915	-.394	.192	.233	-.264	80	1131	.116	.223	.981	-.945
70	2729	-.230	.144	.294	-.762	70	2916	-.120	.155	.346	-.750	80	1132	.101	.213	1.017	-.558
70	2730	-.207	.143	.340	-.717	70	2917	-.279	.160	.201	-.070	80	1133	.201	.224	.922	-.623
70	2731	-.002	.155	.523	-.512	70	2918	-.459	.232	.174	-.140	80	1134	.206	.177	.906	-.456
70	2732	-.019	.151	.522	-.449	70	2919	-.400	.268	.488	-.922	80	1135	.248	.184	.932	-.330
70	2733	-.015	.150	.473	-.503	70	2920	-.583	.251	.484	-.717	80	1136	.180	.189	.944	-.779
70	2734	-.088	.171	.516	-.949	70	2921	-.297	.229	.348	-.133	80	1137	.180	.218	.851	-.671
70	2735	-.249	.172	.540	-.970	70	2922	-.057	.263	.910	-.898	80	1138	.168	.237	.869	-.791
70	2736	-.264	.174	.280	-1.237	70	2923	-.301	.180	.224	-.160	80	1139	.261	.212	.973	-.721
70	2737	-.017	.140	.451	-.486	70	2924	-.439	.247	.318	-.511	80	1140	.238	.172	.858	-.631
70	2738	-.003	.139	.482	-.475	70	2925	-.397	.201	.284	-.167	80	1141	.249	.184	1.038	-.437
70	2739	-.004	.136	.416	-.514	70	2926	-.027	.163	.806	-.554	80	1142	.105	.169	.771	-.498
70	2801	-.019	.165	.505	-.511	70	2927	-.159	.167	.757	-.690	80	1143	.156	.203	1.097	-.512
70	2802	-.260	.227	.505	-.698	70	2928	-.239	.149	.434	-.800	80	1144	.149	.217	1.108	-.723
70	2803	-.149	.241	1.125	-.532	70	2930	.100	.164	.900	-.481	80	1145	.251	.194	1.092	-.637
70	2804	-.022	.212	.729	-.771	70	2931	.094	.135	.572	-.478	80	1146	.215	.171	1.066	-.328
70	2805	-.075	.147	.410	-.740	70	2932	.143	.130	.650	-.294	80	1147	.271	.178	.937	-.272
70	2806	-.013	.179	.718	-.900	70	2933	.023	.112	.439	-.352	80	1148	.103	.157	.653	-.381
70	2807	-.165	.215	1.101	-1.076	70	2934	.163	.115	.606	-.209	80	1149	.169	.184	.850	-.511
70	2808	-.062	.265	.396	-1.611	70	2935	.062	.114	.522	-.320	80	1150	.197	.198	.884	-.486
70	2809	-.234	.227	.535	-1.436	80	1101	-.080	.267	1.067	-.057	80	1151	.232	.175	.872	-.618
70	2810	-.182	.145	.431	-.676	80	1102	-.060	.236	.863	-.845	80	1152	.194	.158	.823	-.311
70	2811	-.127	.141	.424	-.616	80	1103	-.031	.198	.717	-.674	80	1153	.223	.168	.899	-.298
70	2812	-.015	.144	.567	-.551	80	1104	-.034	.158	.539	-.698	80	1154	.115	.155	.711	-.395

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	1155	.125	.154	.780	-.467	80	1239	-.470	.213	.219	-1.742	80	1330	-.399	.164	.066	-1.223
80	1156	.113	.162	.759	-.488	80	1240	-.521	.198	.128	-1.414	80	1331	-.373	.149	.158	-1.053
80	1157	.135	.146	.679	-.303	80	1241	-.519	.201	.192	-1.534	80	1332	-.387	.173	.083	-1.314
80	1158	.122	.140	.645	-.346	80	1242	-.512	.209	.268	-1.584	80	1333	-.389	.172	.077	-1.286
80	1159	.139	.146	.823	-.342	80	1243	-.460	.187	.196	-1.608	80	1334	-.410	.178	.055	-1.258
80	1160	.036	.137	.615	-.439	80	1244	-.441	.210	.184	-1.498	80	1335	-.421	.174	.060	-1.570
80	1161	.136	.142	.837	-.286	80	1245	-.471	.234	.098	-2.062	80	1336	-.476	.150	-.043	-1.250
80	1162	.150	.144	.916	-.289	80	1246	-.493	.233	.255	-2.597	80	1337	-.458	.142	-.026	-1.080
80	1163	.086	.136	.671	-.339	80	1247	-.300	.234	.853	-1.239	80	1338	-.386	.138	-.013	-.969
80	1164	.059	.135	.589	-.339	80	1248	-.216	.190	.506	-.913	80	1339	-.470	.153	-.058	-1.125
80	1165	.085	.141	.661	-.351	80	1249	-.300	.175	.287	-1.124	80	1340	-.469	.159	-.005	-1.221
80	1166	.097	.135	.612	-.320	80	1250	-.227	.161	.271	-.928	80	1341	-.485	.170	-.041	-1.198
80	1201	-.298	.162	.173	-1.130	80	1251	-.211	.161	.278	-.825	80	1342	-.386	.160	.095	-1.083
80	1202	-.309	.155	.182	-1.231	80	1252	-.190	.156	.467	-.763	80	1344	-.503	.180	.027	-1.416
80	1203	-.253	.138	.237	-.875	80	1253	-.189	.165	.335	-.870	80	1345	-.503	.210	.249	-1.516
80	1204	-.238	.157	.237	-1.254	80	1254	-.213	.149	.309	-.829	80	1346	-.307	.168	.166	-1.155
80	1205	-.365	.157	.132	-1.145	80	1255	-.012	.135	.535	-.430	80	1347	-.404	.192	.109	-1.454
80	1206	-.347	.153	.162	-1.091	80	1256	-.011	.140	.608	-.457	80	1348	-.454	.205	.206	-1.420
80	1207	-.353	.149	.181	-.901	80	1257	.005	.143	.515	-.482	80	1349	-.354	.181	.321	-1.087
80	1208	-.358	.165	.147	-1.044	80	1258	.004	.131	.423	-.512	80	1350	-.216	.187	.442	-.992
80	1209	-.360	.170	.115	-1.124	80	1259	.084	.136	.334	-.536	80	1351	-.250	.130	.150	-.764
80	1210	-.223	.149	.299	-.898	80	1301	-.341	.146	.247	-.834	80	1352	-.298	.150	.168	-1.181
80	1211	-.296	.157	.257	-.965	80	1302	-.348	.141	.168	-.936	80	1353	-.247	.147	.533	-.921
80	1212	-.239	.151	.297	-.830	80	1303	-.346	.141	.244	-1.018	80	1354	-.081	.121	.519	-.577
80	1213	-.262	.151	.202	-1.218	80	1304	-.229	.139	.169	-.819	80	1355	-.128	.195	.658	-.656
80	1214	-.247	.157	.228	-1.427	80	1305	-.239	.124	.232	-.697	80	1356	-.264	.169	.244	-.888
80	1215	-.320	.140	.219	-.906	80	1306	-.237	.136	.151	-.775	80	1357	-.317	.189	.270	-1.056
80	1216	-.312	.098	.029	-.651	80	1307	-.221	.134	.163	-.742	80	1358	-.149	.168	.399	-.888
80	1217	-.304	.142	.130	-.998	80	1308	-.295	.143	.116	-.835	80	1359	-.073	.148	.555	-.607
80	1218	-.339	.149	.094	-1.307	80	1309	-.279	.134	.102	-.804	80	1360	-.048	.147	.647	-.590
80	1219	-.329	.154	.100	-1.413	80	1310	-.224	.129	.141	-.705	80	1401	-.229	.141	.228	-.676
80	1220	-.327	.140	.118	-1.018	80	1311	-.228	.122	.254	-.706	80	1402	-.206	.138	.248	-.645
80	1221	-.336	.141	.104	-1.030	80	1312	-.237	.127	.184	-.762	80	1403	-.271	.149	.220	-.912
80	1222	-.367	.148	.078	-1.242	80	1313	-.233	.122	.214	-.689	80	1404	-.222	.145	.244	-.802
80	1223	-.369	.158	.077	-1.581	80	1314	-.239	.135	.092	-.974	80	1405	-.223	.141	.293	-.769
80	1224	-.345	.168	.200	-1.704	80	1315	-.254	.131	.153	-.875	80	1406	-.200	.139	.313	-.717
80	1225	-.359	.167	.143	-1.379	80	1316	-.297	.136	.073	-.962	80	1407	-.263	.147	.275	-.748
80	1226	-.385	.169	.213	-1.385	80	1317	-.303	.136	.081	-.885	80	1408	-.208	.141	.306	-.657
80	1227	-.380	.170	.131	-1.043	80	1318	-.331	.138	.055	-.918	80	1409	-.241	.139	.199	-.932
80	1228	-.373	.160	.126	-1.106	80	1319	-.320	.139	.065	-.930	80	1410	-.217	.130	.198	-.732
80	1229	-.390	.175	.148	-1.495	80	1320	-.317	.144	.204	-.980	80	1411	-.229	.135	.147	-.810
80	1230	-.412	.180	.120	-1.374	80	1321	-.313	.145	.169	-.967	80	1412	-.234	.098	.124	-.573
80	1231	-.376	.170	.150	-1.264	80	1322	-.333	.146	.142	-1.021	80	1413	-.242	.128	.121	-.843
80	1232	-.406	.152	.073	-1.091	80	1323	-.330	.146	.117	-.959	80	1414	-.231	.130	.111	-.897
80	1233	-.420	.195	.095	-1.200	80	1324	-.328	.138	.070	-.839	80	1415	-.297	.139	.212	-.896
80	1234	-.404	.182	.115	-1.791	80	1325	-.333	.150	.062	-1.516	80	1416	-.327	.141	.186	-.891
80	1235	-.439	.168	.026	-1.251	80	1326	-.336	.146	.102	-.951	80	1417	-.296	.137	.227	-.780
80	1236	-.431	.178	.122	-1.198	80	1327	-.335	.143	.088	-1.002	80	1418	-.310	.154	.182	-.901
80	1237	-.472	.183	.361	-1.221	80	1328	-.337	.161	.154	-.997	80	1419	-.317	.143	.097	-.957
80	1238	-.472	.193	.250	-1.444	80	1329	-.397	.167	.170	-1.102	80	1420	-.356	.142	.031	-1.199

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	1421	.318	.136	.047	-1.092	80	1512	-.380	.164	.197	-.990	80	1562	-.102	.134	.429	-.561
80	1422	-.321	.140	.136	-.982	80	1513	-.280	.142	.448	-.992	80	1601	-.419	.205	.140	-1.679
80	1423	-.327	.146	.123	-.926	80	1514	-.338	.142	.107	-.947	80	1602	-.423	.220	.206	-1.712
80	1424	-.381	.155	.092	-1.050	80	1515	-.266	.131	.139	-1.027	80	1603	-.457	.205	.139	-1.392
80	1425	-.341	.144	.104	-.846	80	1516	-.363	.150	.178	-.945	80	1604	-.552	.202	.165	-1.328
80	1426	-.360	.142	.091	-1.043	80	1517	-.370	.152	.196	-.936	80	1605	-.299	.183	.313	-1.274
80	1427	-.355	.141	.133	-.977	80	1518	-.358	.164	.333	-.999	80	1606	-.388	.194	.370	-1.404
80	1428	-.423	.157	.002	-1.385	80	1519	-.376	.172	.100	-1.105	80	1607	-.485	.208	.417	-1.380
80	1429	-.403	.157	.056	-1.547	80	1520	-.341	.167	.121	-1.024	80	1608	-.423	.203	.150	-1.774
80	1430	-.460	.143	.083	-1.033	80	1521	-.310	.136	.119	-.888	80	1609	-.536	.229	.065	-2.402
80	1431	-.338	.138	.141	-.958	80	1522	-.302	.138	.174	-.879	80	1610	-.398	.183	.315	-1.204
80	1432	-.382	.141	.032	-.956	80	1523	-.345	.147	.167	-.963	80	1611	-.394	.181	.236	-1.180
80	1433	-.386	.154	.043	-1.437	80	1524	-.320	.147	.220	-.957	80	1612	-.518	.218	.226	-1.412
80	1434	-.396	.179	.258	-1.523	80	1525	-.362	.161	.120	-1.144	80	1613	-.685	.261	.014	-1.736
80	1435	-.421	.174	.159	-1.094	80	1526	-.357	.146	.026	-1.113	80	1614	-.665	.254	.070	-1.667
80	1436	-.388	.134	.038	-.952	80	1527	-.338	.143	.050	-1.199	80	1615	-.367	.179	.175	-1.178
80	1437	-.378	.165	.208	-1.056	80	1528	-.377	.150	.054	-1.150	80	1616	-.365	.184	.209	-1.136
80	1438	-.349	.171	.254	-1.310	80	1529	-.340	.145	.050	-1.067	80	1617	-.468	.210	.086	-1.463
80	1439	-.373	.198	.209	-1.488	80	1530	-.345	.157	.129	-1.054	80	1618	-.491	.243	.092	-1.609
80	1440	-.444	.212	.204	-1.439	80	1531	-.393	.170	.144	-1.235	80	1619	-.579	.333	.062	-2.760
80	1441	-.439	.202	.153	-1.616	80	1532	-.366	.165	.179	-1.282	80	1620	-.422	.216	.159	-1.695
80	1442	-.372	.182	.184	-1.427	80	1533	-.407	.172	.159	-1.391	80	1621	-.450	.202	.115	-1.538
80	1443	-.364	.194	.157	-1.737	80	1534	-.372	.168	.121	-1.157	80	1622	-.441	.198	.147	-1.543
80	1444	-.350	.208	.237	-1.843	80	1535	-.385	.175	.169	-1.072	80	1623	-.467	.209	.115	-1.506
80	1445	-.268	.185	.316	-1.334	80	1536	-.390	.183	.202	-1.185	80	1624	-.455	.196	.176	-1.360
80	1446	-.274	.169	.200	-1.129	80	1537	-.400	.179	.151	-1.099	80	1625	-.530	.247	.219	-1.693
80	1447	-.247	.162	.223	-1.018	80	1538	-.428	.180	.242	-1.288	80	1626	-.474	.220	.285	-1.383
80	1448	-.254	.176	.228	-1.066	80	1539	-.443	.198	.056	-1.386	80	1627	-.434	.218	.119	-1.522
80	1449	-.236	.186	.234	-1.299	80	1540	-.470	.207	.121	-1.716	80	1628	-.473	.202	.055	-1.302
80	1450	-.171	.148	.298	-1.007	80	1541	-.424	.193	.125	-1.443	80	1629	-.517	.209	.037	-1.442
80	1451	-.195	.150	.288	-1.097	80	1542	-.489	.219	.146	-2.116	80	1630	-.549	.262	.123	-2.664
80	1452	-.186	.150	.291	-.932	80	1543	-.344	.188	.641	-1.299	80	1631	-.528	.258	.181	-1.797
80	1453	-.192	.173	.255	-.974	80	1544	-.362	.178	.307	-1.017	80	1632	-.614	.241	.240	-1.748
80	1454	-.203	.196	.270	-1.526	80	1545	-.408	.188	.276	-1.262	80	1633	-.631	.248	.355	-2.142
80	1455	-.168	.122	.178	-.805	80	1546	-.521	.245	.285	-2.122	80	1634	-.673	.256	.223	-2.288
80	1456	-.172	.172	.340	-.772	80	1547	-.528	.250	.164	-1.752	80	1635	-.542	.241	.139	-1.688
80	1457	-.153	.161	.352	-.988	80	1548	-.560	.246	.206	-1.425	80	1636	-.567	.250	.197	-1.831
80	1458	-.136	.157	.351	-.797	80	1549	-.227	.141	.269	-.821	80	1637	-.578	.257	.283	-1.607
80	1459	-.169	.170	.291	-1.108	80	1550	-.231	.160	.282	-.777	80	1638	-.631	.293	.375	-2.446
80	1501	-.258	.156	.272	-.988	80	1551	-.265	.164	.250	-.842	80	1639	-.627	.282	.021	-2.035
80	1502	-.231	.152	.286	-.846	80	1552	-.241	.160	.258	-.771	80	1640	-.197	.229	.478	-.998
80	1503	-.432	.176	.099	-1.185	80	1553	-.226	.144	.244	-.726	80	1641	-.221	.209	.460	-1.258
80	1504	-.415	.179	.266	-1.122	80	1554	-.217	.159	.271	-.927	80	1642	-.546	.303	.628	-1.693
80	1505	-.414	.182	.296	-1.176	80	1555	-.193	.151	.278	-.721	80	1643	-.610	.285	.512	-1.941
80	1506	-.298	.164	.205	-1.000	80	1556	-.222	.151	.227	-.774	80	1644	-.606	.317	.655	-1.836
80	1507	-.266	.155	.232	-.872	80	1557	-.299	.166	.310	-.945	80	1701	-.163	.203	.470	-.931
80	1508	-.327	.157	.181	-.873	80	1558	-.215	.153	.270	-.958	80	1702	-.080	.211	.858	-.750
80	1509	-.386	.164	.201	-1.033	80	1559	-.196	.152	.232	-1.015	80	1703	-.024	.212	.974	-.746
80	1510	-.398	.166	.307	-1.017	80	1560	-.188	.138	.252	-.665	80	1704	.152	.255	1.204	-.627
80	1511	-.375	.158	.207	-.937	80	1561	-.130	.135	.302	-.596	80	1705	.152	.263	1.192	-.769



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	1706	.003	.270	1.054	-.825	80	1812	.485	.232	1.304	-.129	80	1909	-.351	.196	.196	-1.302
80	1707	-.119	.260	1.887	-.929	80	1813	.404	.249	1.471	-.350	80	1910	-.206	.128	.170	-.690
80	1708	-.096	.214	1.788	-.009	80	1814	.299	.235	1.202	-.364	80	1911	-.396	.156	.143	-1.057
80	1709	.003	.219	1.880	-.222	80	1815	.382	.236	1.287	-.388	80	1912	-.420	.240	1.352	-.660
80	1710	.011	.219	1.820	-.251	80	1816	.469	.237	1.366	-.278	80	1913	-.380	.157	.060	-.938
80	1711	.296	.239	1.406	-.394	80	1817	.535	.248	1.429	-.222	80	1914	-.265	.154	.268	-.898
80	1712	.227	.280	1.366	-.684	80	1818	.452	.241	1.449	-.269	80	1915	-.471	.194	.228	-1.397
80	1713	.019	.281	1.969	-.884	80	1819	.341	.217	1.683	-.375	80	1916	-.191	.264	1.084	-.591
80	1714	.085	.255	1.120	-.677	80	1820	.322	.227	1.214	-.275	80	1917	-.387	.160	.199	-.893
80	1715	.054	.242	1.937	-.974	80	1821	.455	.218	1.206	-.119	80	1918	-.330	.169	.173	-.926
80	1716	.273	.234	1.328	-.489	80	1822	.523	.217	1.382	-.055	80	1919	-.010	.261	1.203	-.779
80	1717	.257	.276	1.435	-.028	80	1823	.421	.226	1.235	-.209	80	1920	-.495	.223	.104	-1.973
80	1718	.164	.306	1.279	-.018	80	1824	.327	.228	1.112	-.304	80	1921	-.551	.206	.033	-1.338
80	1719	.061	.281	1.143	-.822	80	1825	.336	.225	1.161	-.301	80	1922	-.514	.180	.048	-1.193
80	1720	.070	.283	1.873	-.930	80	1826	.427	.211	1.193	-.220	80	1924	-.517	.182	.066	-1.254
80	1721	.204	.233	1.262	-.773	80	1827	.457	.207	1.253	-.310	80	1925	-.554	.224	.062	-1.679
80	1722	.259	.264	1.089	-.711	80	1828	.461	.205	1.169	-.458	80	1926	-.443	.178	.298	-1.202
80	1723	.158	.283	1.286	-.850	80	1829	.314	.212	1.099	-.632	80	1927	-.024	.181	.650	-.711
80	1724	.095	.245	1.288	-.610	80	1830	.276	.221	1.127	-.291	80	1928	-.129	.193	.556	-.909
80	1725	.117	.241	1.877	-.668	80	1831	.353	.199	1.056	-.160	80	1929	-.136	.257	1.063	-.858
80	1726	.131	.209	1.873	-.844	80	1832	.437	.208	1.205	-.110	80	1930	-.441	.190	.099	-1.300
80	1727	.195	.247	1.127	-.683	80	1833	.384	.211	1.338	-.151	80	1931	-.209	.141	.292	-.942
80	1728	.118	.259	1.155	-.700	80	1834	.277	.212	1.024	-.474	80	1932	-.163	.136	.313	-.877
80	1729	.005	.227	1.908	-.687	80	1835	.152	.191	1.842	-.554	80	1933	-.140	.135	.330	-.649
80	1730	.091	.248	1.923	-.663	80	1836	.254	.181	1.061	-.306	80	1934	-.137	.135	.306	-.674
80	1731	.057	.220	1.907	-.715	80	1837	.348	.147	1.866	-.038	80	1935	-.219	.147	.242	-.850
80	1732	.078	.256	1.963	-.928	80	1838	.347	.188	1.953	-.248	80	1936	-.157	.134	.256	-.664
80	1733	.002	.282	1.007	-.907	80	1839	.337	.199	1.328	-.266	80	1937	-.152	.128	.327	-.616
80	1734	.110	.271	1.123	-.852	80	1840	.107	.156	1.745	-.449	80	1938	-.154	.129	.329	-.661
80	1735	.019	.253	1.877	-.857	80	1841	.171	.153	1.888	-.290	80	1939	-.223	.138	.305	-.774
80	1736	.034	.226	1.872	-.815	80	1842	.253	.178	1.084	-.230	80	1940	-.193	.137	.316	-.751
80	1737	.033	.253	1.865	-.796	80	1843	.262	.189	1.041	-.373	80	1941	-.317	.157	.207	-.937
80	1738	.023	.282	1.289	-.056	80	1844	.276	.210	1.041	-.373	80	1942	-.340	.163	.173	-.978
80	1739	.069	.244	1.229	-.008	80	1845	.115	.148	1.296	-.399	80	1943	-.253	.152	.206	-.888
80	1740	.050	.252	1.305	-.039	80	1846	.112	.146	1.753	-.478	80	1944	-.204	.151	.235	-.897
80	1741	.079	.208	1.036	-.595	80	1847	.135	.146	1.750	-.310	80	1945	-.206	.133	.303	-.642
80	1742	.084	.240	1.831	-.414	80	1848	.158	.151	1.755	-.466	80	1946	-.206	.134	.217	-.744
80	1743	.087	.236	1.857	-.001	80	1849	.165	.150	1.753	-.414	80	1947	-.230	.138	.165	-.691
80	1744	.012	.202	1.704	-.699	80	1850	.083	.130	1.650	-.355	80	1948	-.226	.139	.192	-.730
80	1801	.057	.273	1.322	-.825	80	1851	.088	.137	1.517	-.373	80	1949	-.233	.136	.322	-.741
80	1802	.152	.283	1.349	-.702	80	1852	.108	.140	1.555	-.326	80	1950	-.201	.128	.351	-.653
80	1803	.153	.283	1.410	-.578	80	1853	.114	.151	1.612	-.342	80	1951	-.216	.129	.300	-.677
80	1804	.030	.250	1.456	-.744	80	1854	.070	.158	1.661	-.564	80	1952	-.217	.142	.304	-.770
80	1805	.208	.221	1.066	-.425	80	1855	.236	.135	1.227	-.798	80	1953	-.235	.162	.196	-.976
80	1806	.246	.223	1.049	-.427	80	1901	.383	.146	1.099	-.140	80	1954	-.246	.162	.292	-.887
80	1807	.266	.223	1.202	-.379	80	1902	.292	.153	1.134	-.984	80	1955	-.222	.156	.306	-.912
80	1808	.243	.222	1.237	-.387	80	1903	.231	.143	1.275	-.876	80	1956	-.283	.164	.245	-.917
80	1809	.164	.207	1.066	-.595	80	1904	.249	.148	1.232	-.032	80	1957	-.221	.159	.228	-.129
80	1810	.372	.258	1.270	-.325	80	1905	.280	.182	1.280	-.042	80	1958	-.203	.155	.232	-.058
80	1811	.450	.259	1.339	-.221	80	1906	.268	.179	1.333	-.178	80	1959	-.264	.161	.195	-.176

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	2408	-227	158	218	-943	80	2523	-224	149	342	-829	80	2715	-081	154	603	-818
80	2409	-227	172	281	-939	80	2524	-239	149	322	-971	80	2716	-177	178	603	-797
80	2410	-268	166	301	-1087	80	2525	-204	138	341	-733	80	2717	-207	143	389	-684
80	2411	-299	160	204	-939	80	2526	-133	134	342	-750	80	2718	-241	154	269	-975
80	2412	-345	162	141	-1019	80	2527	-151	124	289	-670	80	2719	-162	140	322	-783
80	2413	-358	192	205	-1166	80	2528	-183	127	230	-715	80	2720	-235	162	321	-917
80	2414	-356	187	222	-1211	80	2529	-210	131	199	-734	80	2721	-218	175	513	-957
80	2415	-273	163	176	-1011	80	2530	-200	128	205	-685	80	2722	-243	164	546	-843
80	2416	-255	164	243	-1186	80	26001	-228	175	378	-912	80	2723	-199	153	646	-763
80	2417	-248	158	243	-1186	80	26002	-164	173	446	-928	80	2724	-190	151	576	-762
80	2418	-261	166	181	-1015	80	26003	-258	202	334	-1288	80	2725	-093	150	481	-570
80	2419	-232	145	224	-922	80	26004	-312	225	700	-1205	80	2726	-080	148	460	-566
80	2420	-247	164	264	-1341	80	26005	-295	212	286	-1365	80	2727	-108	152	423	-671
80	2421	-226	149	261	-977	80	26006	-294	233	373	-1496	80	2728	-143	148	359	-788
80	2422	-224	146	224	-708	80	26007	-380	281	443	-1999	80	2729	-150	143	295	-750
80	2423	-238	157	217	-1169	80	26008	-398	290	340	-1828	80	2730	-131	141	310	-731
80	2424	-241	160	225	-1071	80	26009	-416	281	552	-2097	80	2731	-019	139	633	-504
80	2425	-169	108	183	-523	80	2610	-274	177	201	-1127	80	2732	037	140	852	-492
80	2426	-166	102	144	-510	80	2611	-245	169	254	-1058	80	2733	004	140	689	-521
80	2427	-104	096	22	-479	80	2612	-291	197	266	-1222	80	2734	050	166	749	-622
80	2428	-113	106	20	-477	80	2613	-319	205	354	-1470	80	2735	-164	153	322	-786
80	2429	-138	105	198	-461	80	2615	-253	156	242	-1092	80	2736	-184	154	238	-1163
80	2430	-156	108	205	-513	80	2616	-229	151	297	-813	80	2737	027	123	465	-374
80	2431	-125	120	240	-831	80	2617	-284	168	222	-993	80	2738	037	120	422	-313
80	2432	-175	115	207	-766	80	2618	-368	205	191	-1714	80	2739	041	130	517	-392
80	2433	-195	110	241	-654	80	2619	-359	206	183	-1744	80	2801	121	194	892	-628
80	2434	-182	111	237	-642	80	2620	-174	129	341	-596	80	2802	236	216	226	-405
80	2435	-107	107	232	-539	80	2621	-180	135	206	-623	80	2803	281	232	1	-353
80	2501	-256	163	233	-988	80	2622	-211	146	211	-807	80	2804	131	208	1	-573
80	2502	-223	165	306	-886	80	2623	-257	160	173	-875	80	2805	002	175	760	-883
80	2503	-226	176	312	-936	80	2624	-324	174	223	-1252	80	2806	115	178	667	-895
80	2504	-207	175	300	-968	80	2625	-155	127	235	-1568	80	2807	251	213	1	-767
80	2505	-267	182	269	-1011	80	2626	-148	128	276	-554	80	2808	037	210	798	-726
80	2506	-235	175	304	-923	80	2627	-207	144	206	-737	80	2809	-044	196	611	-829
80	2507	-224	155	247	-1031	80	2628	-241	154	221	-1109	80	2810	-158	131	272	-689
80	2508	-217	158	246	-993	80	2629	-246	162	228	-1208	80	2811	-113	130	374	-642
80	2509	-290	172	203	-1211	80	2701	-149	178	508	-827	80	2812	002	148	505	-738
80	2510	-248	166	203	-1198	80	2702	012	164	671	-516	80	2813	-024	169	714	-712
80	2511	-269	163	229	-960	80	2703	-021	193	828	-554	80	2814	-027	155	680	-686
80	2512	-306	181	210	-1015	80	2704	-173	211	630	-1063	80	2815	-147	124	214	-585
80	2513	-304	144	131	-1063	80	2705	-164	268	754	-1182	80	2816	-097	122	254	-627
80	2514	-308	190	250	-1208	80	2706	062	164	803	-520	80	2817	009	131	457	-450
80	2515	-310	200	184	-1223	80	2707	-157	220	1	-537	80	2818	013	144	581	-412
80	2516	-248	147	228	-1043	80	2708	-045	164	839	-699	80	2819	-058	160	485	-587
80	2517	-253	147	177	-1146	80	2709	-037	178	563	-869	80	2820	-076	141	369	-606
80	2518	-261	151	177	-1146	80	2710	-282	218	636	-1292	80	2821	037	135	401	-446
80	2519	-294	159	186	-1222	80	2711	-254	202	590	-1302	80	2822	053	131	555	-405
80	2520	-294	159	177	-1147	80	2712	-313	207	490	-2295	80	2823	012	140	490	-468
80	2521	-167	138	217	-641	80	2713	-134	141	534	-680	80	2824	037	134	345	-516
80	2522	-192	137	244	-730	80	2714	-126	134	588	-295	80	2901	-224	143	183	-827

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	29002	217	147	197	918	90	11118	228	227	903	757	90	1202	229	156	222	-1 049
80	29003	205	130	211	935	90	11119	166	203	617	749	90	1203	246	140	286	-1 876
80	29004	202	132	270	695	90	11120	153	207	609	855	90	1204	233	137	256	-1 745
80	29005	202	129	218	724	90	11121	063	315	1 094	045	90	1205	266	149	211	-1 294
80	29006	199	131	230	693	90	11122	188	276	979	339	90	1206	248	146	214	-1 199
80	29007	278	155	163	909	90	11123	269	257	1 074	924	90	1207	262	148	226	-1 008
80	29008	261	149	183	746	90	11124	212	234	1 056	927	90	1208	272	148	240	-1 791
80	29009	236	159	290	101	90	11125	081	232	759	837	90	1209	266	150	253	-1 861
80	29010	252	161	262	224	90	11126	087	232	832	836	90	1210	214	131	274	-1 851
80	29011	137	135	289	723	90	11127	029	290	1 214	914	90	1211	291	137	218	-1 835
80	29012	245	149	259	977	90	11128	165	232	922	990	90	1212	224	131	249	-1 773
80	29013	230	172	224	466	90	11129	213	220	988	862	90	1213	250	141	172	-1 094
80	29014	204	162	541	923	90	11130	059	194	885	639	90	1214	233	143	175	-1 184
80	29015	332	186	197	174	90	11131	042	231	841	915	90	1215	288	147	163	-1 236
80	29016	027	160	628	530	90	11132	019	242	762	772	90	1216	288	096	010	-1 655
80	29017	257	167	274	980	90	11133	081	305	982	928	90	1217	259	144	180	-1 004
80	29018	414	224	222	984	90	11134	174	235	824	873	90	1218	294	147	129	-1 899
80	29019	286	259	487	466	90	11135	250	215	959	668	90	1219	282	151	137	-1 141
80	29020	419	350	015	783	90	11136	180	183	839	442	90	1220	266	139	142	-1 999
80	29021	146	243	621	271	90	11137	002	213	825	818	90	1221	271	139	146	-1 102
80	29022	115	266	359	452	90	11138	024	223	810	939	90	1222	298	143	169	-1 162
80	29023	183	164	356	58	90	11139	079	264	994	988	90	1223	298	146	191	-1 034
80	29024	280	246	825	56	90	11140	157	200	839	134	90	1224	296	151	312	-1 031
80	29025	282	243	574	23	90	11141	218	203	805	616	90	1225	302	152	161	-1 132
80	29026	026	154	858	493	90	11142	22	178	682	712	90	1226	327	156	151	-1 476
80	29027	075	182	703	746	90	11143	071	225	902	139	90	1227	318	157	169	-1 129
80	29028	182	175	526	765	90	11144	053	245	954	965	90	1228	311	159	188	-1 231
80	29030	130	152	706	337	90	11145	163	245	874	207	90	1229	326	174	191	-1 759
80	29031	096	124	613	266	90	11146	184	180	793	606	90	1230	344	165	105	-1 993
80	29032	122	138	813	322	90	11147	279	199	052	568	90	1231	333	163	262	-1 040
80	29033	039	112	495	323	90	11148	110	193	1 028	832	90	1232	335	152	248	-1 129
80	29034	162	118	756	195	90	11149	137	215	866	801	90	1233	333	192	333	-1 601
80	29035	063	115	488	405	90	11150	151	242	935	248	90	1234	349	187	167	-1 965
90	1101	242	247	652	409	90	11151	236	198	888	490	90	1235	392	192	154	-1 872
90	1102	164	207	534	056	90	11152	204	166	851	401	90	1236	394	191	153	-1 730
90	1103	131	183	641	823	90	11153	235	175	969	354	90	1237	421	192	150	-1 280
90	1104	130	164	573	887	90	11154	114	165	934	476	90	1238	430	203	172	-1 397
90	1105	172	139	338	944	90	11155	146	174	852	155	90	1239	436	219	147	-1 577
90	1106	078	203	442	186	90	11156	139	170	821	705	90	1240	489	216	093	-1 974
90	1107	083	202	449	244	90	11157	162	154	749	383	90	1241	491	202	054	-1 667
90	1108	099	201	584	136	90	11158	141	148	761	419	90	1242	488	211	135	-1 609
90	1109	126	244	839	927	90	11159	162	153	776	351	90	1243	383	205	421	-1 191
90	1110	041	199	957	583	90	11160	056	146	536	502	90	1244	407	213	335	-1 397
90	1111	111	213	958	668	90	11161	171	160	904	336	90	1245	465	264	274	-2 423
90	11112	066	179	756	541	90	11162	172	160	925	342	90	1246	426	239	283	-1 706
90	11113	083	193	759	721	90	11163	100	148	650	384	90	1247	285	242	471	-1 346
90	11114	089	192	673	333	90	11164	086	144	620	390	90	1248	196	185	446	-1 951
90	11115	102	266	930	50	90	11165	102	146	614	334	90	1249	235	177	371	-1 170
90	11116	111	282	092	756	90	11166	113	144	644	326	90	1250	174	148	303	-1 008
90	11117	311	281	239	546	90	1201	293	160	334	085	90	1251	170	151	321	-1 069



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPHIN
90	1252	146	152	504	915	90	1344	431	166	094	1255	90	1434	438	191	250	364
90	1253	139	168	496	954	90	1345	427	182	095	1650	90	1435	341	156	250	364
90	1254	188	147	380	050	90	1346	210	134	195	013	90	1436	282	120	077	905
90	1255	009	134	522	541	90	1347	295	145	122	072	90	1437	312	154	164	022
90	12556	002	138	626	509	90	1348	329	160	153	961	90	1438	320	178	223	412
90	12557	015	153	616	484	90	1349	297	152	166	884	90	1439	343	198	200	404
90	12558	046	152	572	614	90	1350	184	154	261	811	90	1440	339	190	183	192
90	1259	074	146	503	515	90	1351	215	138	191	869	90	1441	300	172	221	217
90	1301	250	147	228	883	90	1352	263	151	204	852	90	1442	242	150	234	857
90	1302	249	153	180	058	90	1353	215	147	222	708	90	1443	236	143	232	873
90	1303	244	155	174	264	90	1354	051	117	367	515	90	1444	219	149	262	964
90	1304	216	133	189	724	90	1355	114	190	647	725	90	1445	250	167	346	086
90	1305	236	130	175	646	90	1356	235	172	273	947	90	1446	234	156	201	965
90	1306	220	131	167	649	90	1357	302	221	265	816	90	1447	208	149	267	987
90	1307	202	127	180	637	90	1358	145	193	630	129	90	1448	215	150	355	785
90	1308	277	135	136	779	90	1359	046	156	507	555	90	1449	197	157	334	917
90	1309	278	126	145	714	90	1360	024	158	565	684	90	1450	137	143	348	036
90	1310	220	121	202	645	90	1401	242	148	198	893	90	1451	160	146	341	121
90	1311	225	127	136	669	90	1402	220	146	214	799	90	1452	140	144	343	192
90	1312	296	132	082	732	90	1403	307	158	161	890	90	1453	144	154	285	894
90	1313	233	125	119	618	90	1404	258	155	205	834	90	1454	146	165	273	416
90	1314	242	144	167	833	90	1405	256	130	124	784	90	1455	120	109	229	492
90	1315	260	126	211	757	90	1406	232	127	130	757	90	1456	146	146	321	859
90	1316	241	127	158	840	90	1407	306	134	085	815	90	1457	131	140	346	576
90	1317	245	125	146	812	90	1408	248	130	158	825	90	1458	126	144	341	664
90	1318	274	128	099	864	90	1409	256	138	221	732	90	1459	160	156	290	733
90	1319	260	127	119	786	90	1410	230	128	169	682	90	1501	311	163	285	084
90	1320	289	135	173	770	90	1411	302	133	106	788	90	1502	279	155	287	990
90	1321	270	136	265	740	90	1412	222	100	106	543	90	1503	383	186	288	055
90	1322	292	137	228	778	90	1413	253	126	163	735	90	1504	352	180	288	295
90	1323	285	136	211	790	90	1414	244	127	178	711	90	1505	359	189	281	180
90	1324	277	143	217	851	90	1415	289	142	132	879	90	1506	304	166	281	285
90	1325	308	140	152	515	90	1416	323	144	097	840	90	1507	270	153	250	055
90	1326	309	144	175	973	90	1417	294	138	120	797	90	1508	338	154	213	141
90	1327	291	140	169	918	90	1418	316	127	157	745	90	1509	318	164	292	931
90	1328	299	143	140	870	90	1419	327	154	259	938	90	1510	325	165	273	962
90	1329	317	145	123	111	90	1420	357	145	137	942	90	1511	301	159	390	924
90	1330	384	167	122	227	90	1421	322	139	154	740	90	1512	303	162	366	947
90	1331	343	152	243	995	90	1422	347	135	151	841	90	1513	309	154	153	978
90	1332	357	171	266	992	90	1423	361	141	153	900	90	1514	374	158	138	918
90	1333	376	173	220	014	90	1424	412	148	124	015	90	1515	288	145	141	859
90	1334	391	177	184	129	90	1425	355	166	149	003	90	1516	284	144	306	888
90	1335	363	158	244	223	90	1426	343	148	122	004	90	1517	289	145	298	883
90	1336	385	143	011	140	90	1427	363	155	077	122	90	1518	302	151	170	898
90	1337	375	136	006	018	90	1428	436	172	063	538	90	1519	390	146	140	028
90	1338	318	132	065	923	90	1429	411	170	045	459	90	1520	351	138	164	894
90	1339	407	148	030	184	90	1430	343	137	098	962	90	1521	339	141	086	852
90	1340	403	152	066	958	90	1431	332	136	160	931	90	1522	335	143	096	854
90	1341	368	165	114	104	90	1432	406	154	134	089	90	1523	384	153	079	963
90	1342	268	153	203	911	90	1433	442	175	136	181	90	1524	350	153	100	980

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	150525	394	153	127	-1.040	90	1613	793	305	441	-2.408	90	1719	294	270	1.187	-737
90	150526	356	156	190	-0.938	90	1614	772	287	222	-2.099	90	1720	279	244	1.945	-704
90	150527	348	153	227	-0.913	90	1615	356	178	203	-1.153	90	1721	242	210	1.028	-490
90	150528	393	162	213	-1.004	90	1616	362	200	232	-1.275	90	1722	378	229	1.255	-430
90	150529	356	159	247	-0.971	90	1617	517	270	396	-2.046	90	1723	355	270	1.583	-822
90	150530	366	167	184	-1.023	90	1618	689	294	302	-2.138	90	1724	285	278	1.709	-669
90	150531	423	188	109	-1.362	90	1619	890	413	041	-2.819	90	1725	331	274	1.300	-400
90	150532	402	182	106	-1.238	90	1620	434	251	305	-1.772	90	1726	172	186	1.880	-444
90	150533	449	191	081	-1.167	90	1621	478	255	193	-1.777	90	1727	315	231	1.087	-598
90	150534	414	190	102	-1.250	90	1622	593	288	318	-1.796	90	1728	275	258	1.088	-687
90	150535	404	174	102	-1.123	90	1623	637	248	270	-1.567	90	1729	129	239	1.010	-604
90	150536	411	180	079	-1.168	90	1624	614	257	138	-1.610	90	1730	280	260	1.491	-557
90	150537	433	198	171	-1.181	90	1625	519	256	260	-2.260	90	1731	114	187	1.805	-854
90	150538	473	195	220	-1.347	90	1626	476	242	358	-1.664	90	1732	237	214	1.060	-618
90	150539	506	201	069	-1.311	90	1627	526	287	396	-1.855	90	1733	203	240	1.110	-805
90	150540	523	218	086	-1.416	90	1628	594	259	281	-2.043	90	1734	128	266	1.184	-767
90	150541	483	206	112	-1.272	90	1629	637	263	273	-1.952	90	1735	204	255	1.089	-576
90	150542	544	227	097	-1.679	90	1630	543	262	173	-1.607	90	1736	052	192	1.729	-745
90	150543	299	197	388	-1.204	90	1631	628	265	209	-1.952	90	1737	163	217	1.951	-868
90	150544	311	188	383	-1.124	90	1632	672	292	297	-1.891	90	1738	114	264	1.194	-774
90	150545	372	207	361	-1.410	90	1633	717	251	174	-2.027	90	1739	037	235	1.065	-776
90	150546	615	270	324	-1.969	90	1634	755	245	190	-2.053	90	1740	065	242	1.074	-814
90	150547	627	272	013	-2.266	90	1635	497	239	223	-1.805	90	1741	163	221	1.099	-539
90	150548	608	249	364	-1.944	90	1636	497	259	258	-1.726	90	1742	090	227	1.033	-889
90	150549	177	127	219	-0.613	90	1637	529	305	325	-1.917	90	1743	060	205	1.716	-943
90	150550	184	136	299	-0.766	90	1638	636	291	298	-1.731	90	1744	114	171	1.799	-519
90	150551	216	141	311	-0.771	90	1639	636	281	379	-2.007	90	1801	235	281	1.425	-707
90	150552	193	138	341	-0.686	90	1640	108	179	533	-0.961	90	1802	304	282	1.696	-609
90	150553	193	138	264	-0.665	90	1641	082	202	609	-1.142	90	1803	236	262	1.312	-476
90	150554	169	134	291	-0.609	90	1642	326	318	495	-1.627	90	1804	071	222	1.149	-623
90	150555	153	129	303	-0.554	90	1643	428	303	635	-1.573	90	1805	319	224	1.226	-289
90	150556	193	128	284	-0.596	90	1644	388	321	698	-1.875	90	1806	316	222	1.231	-271
90	150557	288	140	200	-0.748	90	1644	062	198	620	-0.829	90	1807	302	217	1.190	-314
90	150558	191	136	231	-0.663	90	1702	051	245	800	-0.865	90	1808	266	209	1.121	-379
90	150559	171	130	226	-0.685	90	1703	149	247	1.114	-0.624	90	1809	198	188	1.950	-528
90	150560	158	132	312	-0.666	90	1704	231	235	1.225	-0.487	90	1810	536	264	1.509	-163
90	150561	104	130	348	-0.684	90	1705	255	239	1.333	-0.560	90	1811	570	255	1.550	-098
90	150562	088	118	322	-0.502	90	1706	277	268	1.245	-0.502	90	1812	500	237	1.321	-106
90	150563	403	217	228	-1.397	90	1707	236	300	1.309	-0.578	90	1813	429	252	1.412	-340
90	150564	422	236	338	-1.731	90	1708	192	270	1.337	-0.528	90	1814	283	237	1.186	-449
90	150565	452	212	204	-1.260	90	1709	171	212	1.012	-0.528	90	1815	463	215	1.217	-148
90	150566	606	236	180	-1.816	90	1710	178	213	1.032	-0.557	90	1816	496	211	1.238	-055
90	150567	308	196	224	-1.216	90	1711	356	219	1.408	-0.362	90	1817	466	207	1.224	-133
90	150568	419	229	176	-1.407	90	1712	452	272	1.487	-0.436	90	1818	331	194	1.992	-257
90	150569	534	253	349	-1.641	90	1713	332	304	1.454	-0.728	90	1819	252	220	1.254	-357
90	150570	486	228	381	-1.552	90	1714	266	283	1.357	-0.714	90	1820	551	251	1.478	-264
90	150571	628	263	262	-2.262	90	1715	240	240	1.194	-0.398	90	1821	542	241	1.415	-167
90	1610	316	201	260	-1.681	90	1716	247	214	1.172	-0.579	90	1822	533	230	1.294	-142
90	1611	306	210	285	-1.282	90	1717	347	248	1.392	-0.595	90	1823	390	211	1.220	-305
90	1612	461	306	382	-1.456	90	1718	353	271	1.360	-0.613	90	1824	234	212	1.993	-440

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	1825	.442	.220	1.463	-.232	90	1922	.410	.167	.110	-1.238	90	2421	-.129	.128	.274	-.700
90	1826	.491	.204	1.443	-.166	90	1924	-.396	.151	.082	-1.191	90	2422	-.171	.123	.213	-.699
90	1827	.486	.224	1.275	-.147	90	1925	-.499	.227	.208	-1.484	90	2423	-.183	.130	.249	-.713
90	1828	.348	.214	1.161	-.246	90	1926	-.463	.210	.154	-1.693	90	2424	-.193	.135	.241	-.939
90	1829	.212	.222	1.098	-.470	90	1927	-.143	.189	.533	-.971	90	2425	-.132	.102	.197	-.485
90	1830	.393	.229	1.218	-.798	90	1928	-.132	.229	.585	-1.024	90	2426	-.131	.098	.165	-.463
90	1831	.438	.203	1.127	-.312	90	1929	-.293	.252	1.130	-.588	90	2427	-.061	.093	.249	-.394
90	1832	.452	.207	1.188	-.282	90	1930	-.367	.183	.428	-1.120	90	2428	-.091	.097	.248	-.435
90	1833	.326	.217	1.163	-.426	90	2301	-.208	.135	.291	-.667	90	2429	-.121	.105	.208	-.560
90	1834	.147	.240	.996	-.638	90	2302	-.157	.130	.325	-.603	90	2430	-.128	.102	.196	-.498
90	1835	.197	.196	1.042	-.490	90	2303	-.126	.135	.399	-.623	90	2431	-.066	.097	.260	-.424
90	1836	.303	.203	1.083	-.603	90	2304	-.125	.133	.403	-.608	90	2432	-.126	.099	.187	-.477
90	1837	.344	.178	.853	-.222	90	2305	-.217	.142	.303	-.707	90	2433	-.158	.104	.190	-.543
90	1838	.303	.231	1.126	-.527	90	2306	-.151	.128	.237	-.524	90	2434	-.151	.105	.198	-.605
90	1839	.241	.240	1.142	-.603	90	2307	-.147	.139	.298	-.632	90	2435	-.071	.099	.281	-.485
90	1840	.110	.193	.775	-1.059	90	2308	-.141	.141	.313	-.605	90	2501	-.233	.140	.189	-.979
90	1841	.149	.181	.822	-.753	90	2309	-.226	.151	.258	-.701	90	2502	-.233	.153	.373	-.883
90	1842	.212	.190	.973	-.432	90	2310	-.154	.148	.258	-.674	90	2503	-.153	.166	.300	-1.012
90	1843	.223	.201	1.028	-.442	90	2311	-.290	.154	.227	-.906	90	2504	-.153	.160	.294	-.958
90	1844	.247	.217	1.087	-.476	90	2312	-.302	.159	.242	-1.067	90	2505	-.226	.165	.217	-.958
90	1845	.105	.164	.654	-.467	90	2313	-.140	.140	.318	-.919	90	2506	-.236	.154	.220	-.812
90	1846	.106	.162	.647	-.484	90	2314	-.205	.132	.284	-.682	90	2507	-.266	.163	.185	-.918
90	1847	.153	.164	.918	-.433	90	2315	-.169	.135	.252	-.661	90	2508	-.254	.160	.185	-.832
90	1848	.184	.177	1.069	-.469	90	2316	-.150	.126	.196	-.546	90	2509	-.325	.169	.115	-1.053
90	1849	.188	.181	.983	-.613	90	2317	-.176	.128	.206	-.546	90	2510	-.276	.166	.187	-1.030
90	1850	.094	.138	.545	-.374	90	2318	-.134	.125	.231	-.501	90	2511	-.179	.155	.328	-.785
90	1851	.115	.133	.629	-.292	90	2319	-.183	.130	.238	-.660	90	2512	-.248	.166	.262	-.943
90	1852	.135	.140	.746	-.292	90	2320	-.109	.124	.277	-.585	90	2513	-.238	.129	.148	-.830
90	1853	.132	.160	.809	-.532	90	2321	-.163	.129	.257	-.606	90	2514	-.251	.142	.150	-.774
90	1854	.099	.162	.825	-.576	90	2322	-.167	.118	.225	-.622	90	2515	-.218	.145	.200	-1.170
90	1901	-.258	.140	.225	-.741	90	2401	-.228	.149	.261	-.831	90	2516	-.198	.144	.293	-.896
90	1902	-.290	.162	.161	-1.214	90	2402	-.237	.139	.178	-.907	90	2517	-.209	.145	.362	-1.140
90	1903	-.323	.158	.262	-1.051	90	2403	-.210	.137	.238	-.951	90	2518	-.179	.145	.225	-1.420
90	1904	-.263	.154	.249	-.879	90	2404	-.273	.144	.158	-1.072	90	2519	-.238	.150	.188	-1.246
90	1905	-.258	.148	.208	-.898	90	2405	-.224	.141	.249	-.817	90	2520	-.234	.150	.262	-.882
90	1906	-.273	.179	.240	-1.267	90	2406	-.208	.141	.260	-.858	90	2521	-.101	.124	.279	-.468
90	1908	-.270	.177	.320	-.989	90	2407	-.233	.153	.217	-1.011	90	2522	-.157	.126	.222	-.532
90	1909	-.277	.209	.288	-1.486	90	2408	-.245	.152	.246	-.967	90	2523	-.196	.148	.318	-.842
90	1910	-.236	.143	.335	-.808	90	2409	-.255	.163	.203	-.839	90	2524	-.216	.149	.313	-.850
90	1911	-.355	.176	.246	-1.107	90	2410	-.261	.140	.435	-.710	90	2525	-.140	.136	.343	-.654
90	1912	-.178	.286	1.034	-1.005	90	2411	-.288	.151	.344	-.861	90	2526	-.129	.125	.329	-.576
90	1913	-.328	.157	.182	-1.051	90	2412	-.290	.166	.169	-1.012	90	2527	-.134	.131	.301	-.608
90	1914	-.330	.171	.182	-1.098	90	2413	-.291	.179	.224	-.950	90	2528	-.153	.134	.298	-.635
90	1915	-.497	.240	.290	-1.461	90	2414	-.293	.181	.228	-1.147	90	2529	-.182	.140	.284	-.631
90	1916	-.044	.280	.895	-.979	90	2415	-.195	.135	.207	-.647	90	2530	-.177	.136	.263	-.619
90	1917	-.305	.152	.217	-.808	90	2416	-.188	.144	.279	-.663	90	2531	-.180	.161	.299	-.619
90	1918	-.370	.162	.139	-1.014	90	2417	-.189	.146	.280	-.752	90	2532	-.232	.160	.442	-1.168
90	1919	-.125	.195	.577	-.813	90	2418	-.168	.151	.343	-.739	90	2601	-.180	.180	.381	-1.138
90	1920	-.424	.213	.275	-1.515	90	2419	-.200	.134	.227	-.766	90	2604	-.213	.195	.365	-1.189
90	1921	-.454	.190	.164	-1.369	90	2420	-.167	.140	.220	-.952	90	2605	-.241	.176	.423	-1.216

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	2606	- .219	.199	.440	-1.737	90	2728	- .089	.131	.356	- .655	90	2915	- .367	.165	.117	-1.274
90	2607	- .289	.240	.358	-1.803	90	2729	- .102	.128	.307	- .702	90	2916	- .011	.160	.619	-1.723
90	2608	- .305	.260	.410	-1.782	90	2730	- .085	.128	.326	- .723	90	2917	- .242	.161	.225	-1.930
90	2609	- .404	.306	.334	-2.292	90	2731	- .033	.140	.672	- .422	90	2918	- .354	.171	.106	-1.704
90	2610	- .205	.134	.193	-1.729	90	2732	- .058	.138	.651	- .398	90	2919	- .261	.242	.415	-1.370
90	2611	- .224	.165	.198	-1.991	90	2733	- .030	.135	.559	- .418	90	2920	- .174	.421	1.304	-1.532
90	2612	- .251	.194	.271	-1.379	90	2734	- .017	.144	.667	- .646	90	2921	- .109	.223	.582	-1.165
90	2613	- .272	.203	.340	-1.418	90	2735	- .077	.157	.401	- .642	90	2922	- .159	.270	1.165	-1.155
90	2615	- .201	.143	.233	-1.745	90	2736	- .107	.157	.393	- .667	90	2923	- .147	.155	.324	-1.768
90	2616	- .145	.145	.358	-1.748	90	2737	- .044	.136	.569	- .405	90	2924	- .226	.199	.569	-1.116
90	2617	- .217	.175	.292	-1.944	90	2738	- .053	.134	.579	- .384	90	2925	- .206	.281	1.000	-1.809
90	2618	- .271	.181	.244	-1.395	90	2739	- .063	.127	.537	- .398	90	2926	- .025	.157	.711	-1.652
90	2619	- .277	.180	.247	-1.544	90	2801	- .105	.174	.948	- .494	90	2927	- .014	.176	.613	-1.758
90	2620	- .158	.132	.287	-1.587	90	2802	- .220	.210	1.082	- .392	90	2928	- .083	.182	.561	-1.436
90	2621	- .146	.131	.329	-1.634	90	2803	- .253	.211	1.075	- .376	90	2930	- .148	.164	.735	-1.339
90	2622	- .173	.141	.321	-1.683	90	2804	- .166	.229	1.057	- .561	90	2931	- .123	.147	.689	-1.268
90	2623	- .167	.150	.344	-1.726	90	2805	- .055	.204	.584	- .988	90	2932	- .182	.148	.767	-1.234
90	2624	- .250	.160	.178	-1.854	90	2806	- .015	.211	.703	-1.246	90	2933	- .071	.100	.433	-1.299
90	2625	- .140	.130	.325	-1.826	90	2807	- .032	.258	1.040	- .934	90	2934	- .210	.117	.701	-1.137
90	2626	- .132	.131	.336	-1.847	90	2808	- .088	.206	1.068	-1.029	90	2935	- .110	.113	.577	-1.196
90	2627	- .176	.146	.317	-1.973	90	2809	- .033	.181	.538	-1.237	100	1101	- .497	.276	.266	-1.707
90	2628	- .196	.154	.308	-1.101	90	2810	- .109	.143	.286	- .559	100	1102	- .407	.260	.323	-1.436
90	2629	- .202	.139	.226	-1.901	90	2811	- .104	.139	.296	- .540	100	1103	- .201	.182	.518	-1.951
90	2701	- .097	.185	.641	-1.854	90	2812	- .200	.138	.383	- .472	100	1104	- .193	.169	.494	-1.914
90	2702	- .013	.179	.824	-1.585	90	2813	- .010	.139	.509	- .443	100	1105	- .186	.152	.546	-1.987
90	2703	- .042	.171	.793	-1.459	90	2814	- .016	.133	.443	- .578	100	1106	- .300	.224	.318	-1.300
90	2704	- .075	.230	.853	-1.289	90	2815	- .118	.134	.272	- .583	100	1107	- .302	.226	.330	-1.349
90	2705	- .071	.217	.768	-1.037	90	2816	- .081	.129	.290	- .568	100	1108	- .311	.224	.301	-1.338
90	2706	- .020	.162	.835	-1.574	90	2817	- .036	.127	.432	- .459	100	1109	- .298	.216	.630	-1.128
90	2707	- .086	.208	1.021	-1.613	90	2818	- .035	.137	.535	- .421	100	1110	- .091	.197	.658	-1.783
90	2708	- .080	.183	.806	-1.471	90	2819	- .044	.138	.503	- .589	100	1111	- .008	.241	1.022	-1.846
90	2709	- .022	.171	.827	-1.689	90	2820	- .032	.133	.473	- .478	100	1112	- .016	.212	.794	-1.804
90	2710	- .239	.275	.663	-1.352	90	2901	- .066	.129	.499	- .439	100	1113	- .253	.193	.370	-1.004
90	2711	- .217	.253	.619	-1.149	90	2902	- .072	.129	.533	- .318	100	1114	- .265	.196	.376	-1.106
90	2712	- .285	.260	.551	-1.343	90	2903	- .049	.129	.730	- .421	100	1115	- .322	.233	.709	-1.180
90	2713	- .130	.152	.496	-1.701	90	2904	- .007	.152	.660	- .536	100	1116	- .203	.304	.943	-1.036
90	2714	- .114	.130	.628	-1.272	90	2905	- .202	.139	.224	- .731	100	1117	- .030	.314	1.117	-1.810
90	2715	- .005	.142	.659	-1.661	90	2906	- .195	.138	.271	- .657	100	1118	- .083	.282	1.176	-1.138
90	2716	- .091	.174	.663	-1.904	90	2907	- .174	.131	.244	- .817	100	1119	- .288	.183	.273	-1.094
90	2717	- .166	.173	.532	-1.745	90	2908	- .172	.132	.266	- .693	100	1120	- .330	.188	.245	-1.237
90	2718	- .183	.154	.295	-1.759	90	2909	- .181	.132	.233	- .772	100	1121	- .309	.234	.576	-1.208
90	2719	- .096	.147	.343	-1.621	90	2910	- .170	.131	.250	- .795	100	1122	- .158	.304	.665	-1.626
90	2720	- .167	.171	.355	-1.900	90	2911	- .260	.152	.262	- .821	100	1123	- .040	.300	.910	-1.202
90	2721	- .172	.162	.507	-1.746	90	2912	- .244	.144	.275	- .825	100	1124	- .040	.288	.998	-1.123
90	2722	- .186	.158	.395	-1.875	90	2913	- .247	.145	.299	- .696	100	1125	- .271	.211	.565	-1.952
90	2723	- .109	.140	.480	-1.757	90	2914	- .247	.145	.312	- .803	100	1126	- .271	.208	.545	-1.983
90	2724	- .129	.140	.444	-1.679	90	2915	- .142	.128	.271	- .781	100	1127	- .233	.268	.618	-1.154
90	2725	- .064	.131	.424	-1.523	90	2916	- .231	.142	.298	- .708	100	1128	- .085	.289	.740	-1.229
90	2726	- .047	.133	.443	-1.466	90	2917	- .255	.139	.182	- .804	100	1129	- .001	.271	.848	-1.138
90	2727	- .053	.122	.338	-1.491	90	2918	- .157	.148	.310	- .670	100	1130	- .006	.241	.790	-1.141

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	1131	.255	.223	.648	-.963	100	1215	-.307	.156	.226	-1.197	100	1306	-.199	.123	.250	-.633
100	1132	-.267	.229	.559	-1.129	100	1216	-.268	.102	.043	-.552	100	1307	-.172	.120	.266	-.584
100	1133	-.218	.297	.773	-1.177	100	1217	-.283	.143	.216	-.841	100	1308	-.265	.130	.223	-.711
100	1134	-.081	.292	.622	-1.337	100	1218	-.310	.143	.154	-.874	100	1309	-.257	.149	.235	-1.089
100	1135	.029	.261	.688	-1.013	100	1219	-.300	.145	.162	-1.144	100	1310	-.188	.142	.275	-1.002
100	1136	.002	.232	.812	-.891	100	1220	-.327	.166	.191	-1.308	100	1311	-.187	.126	.200	-.657
100	1137	-.201	.231	.453	-1.236	100	1221	-.325	.161	.176	-1.129	100	1312	-.272	.132	.133	-.731
100	1138	-.237	.245	.547	-1.691	100	1222	-.344	.161	.128	-1.118	100	1313	-.197	.123	.180	-.630
100	1139	-.146	.321	.802	-1.481	100	1223	-.340	.157	.205	-1.224	100	1314	-.239	.136	.242	-.729
100	1140	.019	.245	.784	-1.203	100	1224	-.322	.170	.119	-1.053	100	1315	-.218	.123	.214	-.700
100	1141	.096	.252	.835	-.995	100	1225	-.333	.160	.176	-1.216	100	1316	-.269	.128	.163	-.950
100	1142	.019	.219	.817	-1.204	100	1226	-.348	.159	.169	-1.070	100	1317	-.270	.125	.141	-.856
100	1143	.055	.236	.648	-.913	100	1227	-.330	.157	.173	-.995	100	1318	-.296	.126	.113	-.841
100	1144	.091	.260	.705	-1.128	100	1228	-.315	.149	.176	-.961	100	1319	-.281	.125	.130	-.757
100	1145	.041	.290	.860	-1.214	100	1229	-.328	.158	.162	-1.163	100	1320	-.260	.137	.168	-.710
100	1146	.115	.214	.917	-.832	100	1230	-.336	.179	.086	-1.229	100	1321	-.289	.143	.095	-.844
100	1147	.171	.200	.877	-.956	100	1231	-.333	.191	.218	-1.153	100	1322	-.306	.142	.085	-.896
100	1148	.033	.207	1.002	-1.009	100	1232	-.323	.170	.209	-1.069	100	1323	-.299	.140	.094	-.908
100	1149	.032	.214	.645	-1.193	100	1233	-.348	.196	.206	-1.167	100	1324	-.271	.137	.113	-.751
100	1150	.038	.247	.740	-1.690	100	1234	-.371	.188	.305	-1.190	100	1325	-.301	.135	.092	-.855
100	1151	.131	.216	.872	-1.579	100	1235	-.337	.198	.148	-1.489	100	1326	-.312	.137	.205	-.855
100	1152	.126	.189	.963	-.754	100	1236	-.396	.194	.279	-1.197	100	1327	-.297	.132	.202	-.829
100	1153	.159	.190	1.280	-.706	100	1237	-.385	.196	.132	-1.399	100	1328	-.327	.131	.188	-.829
100	1154	.062	.180	1.089	-.811	100	1238	-.376	.192	.134	-1.250	100	1329	-.342	.133	.171	-.817
100	1155	.107	.172	.999	-.741	100	1239	-.370	.205	.202	-1.387	100	1330	-.331	.154	.158	-1.004
100	1156	.106	.181	.788	-.947	100	1240	-.453	.234	.098	-2.115	100	1331	-.288	.161	.268	-.914
100	1157	.137	.161	.698	-.687	100	1241	-.475	.256	.181	-2.454	100	1332	-.309	.164	.225	-.931
100	1158	.137	.142	.731	-.609	100	1242	-.412	.244	.324	-1.591	100	1333	-.315	.163	.203	-.929
100	1159	.148	.143	.759	-.375	100	1243	-.292	.177	.185	-1.144	100	1334	-.345	.166	.191	-1.082
100	1160	.046	.142	.738	-.381	100	1244	-.287	.211	.612	-1.122	100	1335	-.339	.155	.070	-1.133
100	1161	.135	.152	.750	-.385	100	1245	-.360	.228	.223	-1.718	100	1336	-.350	.153	.163	-1.215
100	1162	.135	.157	.740	-.405	100	1246	-.336	.194	.246	-1.372	100	1337	-.327	.141	.149	-1.194
100	1163	.092	.134	.671	-.327	100	1247	-.203	.201	.489	-1.166	100	1338	-.255	.137	.223	-1.085
100	1164	.113	.131	.701	-.317	100	1248	-.139	.163	.445	-.852	100	1339	-.357	.152	.174	-1.311
100	1165	.130	.127	.647	-.300	100	1249	-.174	.154	.281	-.880	100	1340	-.352	.159	.190	-1.058
100	1166	.146	.128	.715	-.279	100	1250	-.157	.147	.301	-.916	100	1341	-.252	.141	.198	-.903
100	1201	.230	.159	.267	-1.179	100	1251	-.145	.149	.366	-.956	100	1342	-.163	.132	.275	-.744
100	1202	.304	.165	.226	-1.140	100	1252	-.130	.143	.425	-.647	100	1344	-.261	.147	.336	-.721
100	1203	.204	.143	.290	-.801	100	1253	-.094	.137	.389	-.620	100	1345	-.246	.153	.195	-.770
100	1204	.206	.146	.260	-.862	100	1254	-.147	.149	.417	-.732	100	1346	-.080	.121	.290	-.462
100	1205	.266	.163	.242	-1.064	100	1255	-.014	.127	.445	-.429	100	1347	-.151	.129	.247	-.619
100	1206	.286	.160	.269	-1.095	100	1256	-.020	.129	.528	-.430	100	1348	-.191	.127	.157	-.737
100	1207	.260	.155	.203	-1.082	100	1257	-.003	.136	.592	-.501	100	1349	-.173	.121	.160	-.609
100	1208	.267	.146	.243	-1.103	100	1258	-.033	.131	.476	-.530	100	1350	-.072	.115	.229	-.610
100	1209	.267	.145	.218	-.979	100	1259	-.052	.130	.454	-.548	100	1351	-.117	.110	.211	-.591
100	1210	.203	.153	.289	-.998	100	1301	-.251	.141	.194	-.905	100	1352	-.155	.130	.199	-.770
100	1211	.289	.159	.237	-1.053	100	1302	-.245	.144	.255	-.749	100	1353	-.124	.127	.220	-.791
100	1212	.200	.147	.242	-.923	100	1303	-.246	.145	.232	-.738	100	1354	-.007	.101	.305	-.466
100	1213	.213	.138	.285	-.817	100	1304	-.193	.124	.253	-.618	100	1355	-.095	.146	.576	-.535
100	1214	.190	.137	.289	-.795	100	1305	-.202	.130	.188	-.749	100	1356	-.176	.152	.333	-.741



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	1357	- .199	.171	.247	-1.146	100	1447	- .171	.140	.273	- .679	100	1538	- .428	.187	.155	-1.086
100	1358	- .101	.150	.519	- .741	100	1448	- .169	.141	.261	- .730	100	1539	- .515	.190	.070	-1.256
100	1359	- .054	.137	.446	- .562	100	1449	- .162	.149	.275	- .901	100	1540	- .507	.177	.016	-1.218
100	1360	- .037	.139	.494	- .560	100	1450	- .096	.135	.328	- .572	100	1541	- .466	.164	.074	-1.105
100	1401	- .225	.145	.315	-1.065	100	1451	- .105	.136	.345	- .588	100	1542	- .456	.170	.031	-1.244
100	1402	- .199	.142	.361	- .975	100	1452	- .098	.139	.361	- .690	100	1543	- .208	.209	.525	-1.360
100	1403	- .304	.155	.353	- .919	100	1453	- .110	.148	.359	- .796	100	1544	- .211	.209	.492	-1.117
100	1404	- .244	.148	.358	- .912	100	1454	- .121	.162	.333	-1.212	100	1545	- .284	.224	.362	-1.306
100	1405	- .223	.146	.291	- .817	100	1455	- .061	.114	.333	- .504	100	1546	- .531	.273	.384	-1.753
100	1406	- .190	.140	.322	- .683	100	1456	- .084	.145	.333	- .704	100	1547	- .558	.238	.180	-1.966
100	1407	- .278	.151	.308	- .884	100	1457	- .086	.140	.333	- .640	100	1548	- .485	.209	.191	-1.778
100	1408	- .210	.143	.364	- .866	100	1458	- .085	.139	.375	- .650	100	1549	- .150	.132	.306	- .566
100	1409	- .217	.142	.266	- .655	100	1459	- .103	.146	.353	- .812	100	1550	- .163	.139	.307	- .683
100	1410	- .188	.131	.261	- .658	100	1501	- .269	.155	.220	- .949	100	1551	- .168	.138	.294	- .633
100	1411	- .273	.139	.211	- .730	100	1502	- .234	.146	.261	- .795	100	1552	- .153	.137	.289	- .615
100	1412	- .177	.110	.194	- .605	100	1503	- .360	.170	.191	-1.138	100	1553	- .164	.131	.289	- .604
100	1413	- .231	.137	.273	-1.010	100	1504	- .390	.191	.282	-1.169	100	1554	- .146	.139	.313	- .640
100	1414	- .217	.137	.276	-1.004	100	1505	- .432	.221	.269	-1.765	100	1555	- .138	.138	.304	- .640
100	1415	- .279	.148	.171	-1.133	100	1506	- .290	.174	.150	-1.519	100	1556	- .156	.132	.299	- .613
100	1416	- .263	.144	.160	- .967	100	1507	- .245	.155	.188	- .966	100	1557	- .265	.145	.241	- .726
100	1417	- .270	.141	.172	- .757	100	1508	- .331	.158	1.000	-1.067	100	1558	- .146	.134	.354	- .624
100	1418	- .297	.127	.088	- .799	100	1509	- .344	.171	.186	-1.403	100	1559	- .145	.138	.338	- .616
100	1419	- .326	.150	.195	-1.039	100	1510	- .345	.167	.227	- .971	100	1560	- .143	.131	.262	- .572
100	1420	- .314	.143	.078	-1.045	100	1511	- .324	.154	.219	- .952	100	1561	- .095	.131	.288	- .576
100	1421	- .321	.140	.070	- .944	100	1512	- .323	.155	.215	- .975	100	1562	- .062	.129	.350	- .473
100	1422	- .327	.140	.103	- .830	100	1513	- .264	.138	.164	- .974	100	1601	- .390	.214	.283	-1.685
100	1423	- .334	.143	.125	- .827	100	1514	- .341	.134	.135	- .894	100	1602	- .399	.229	.352	-1.544
100	1424	- .330	.144	.142	- .838	100	1515	- .245	.122	.166	- .789	100	1603	- .467	.211	.185	-1.458
100	1425	- .354	.157	.128	- .964	100	1516	- .306	.140	.255	- .863	100	1604	- .614	.247	.448	-1.617
100	1426	- .348	.152	.111	- .937	100	1517	- .312	.142	.278	- .856	100	1605	- .181	.152	.317	- .944
100	1427	- .376	.160	.098	-1.196	100	1518	- .321	.142	.119	- .917	100	1606	- .245	.193	.337	-1.144
100	1428	- .391	.169	.097	-1.054	100	1519	- .323	.141	.054	-1.283	100	1607	- .365	.270	.479	-1.570
100	1429	- .406	.173	.098	-1.256	100	1520	- .329	.136	.052	-1.031	100	1608	- .444	.269	.627	-1.393
100	1430	- .326	.150	.139	- .959	100	1521	- .298	.139	.192	- .851	100	1609	- .590	.291	.490	-1.786
100	1431	- .325	.151	.165	- .957	100	1522	- .302	.139	.192	- .807	100	1610	- .253	.151	.318	- .908
100	1432	- .355	.163	.123	-1.214	100	1523	- .299	.140	.216	- .757	100	1611	- .197	.166	.460	- .881
100	1433	- .436	.183	.213	-1.398	100	1524	- .311	.149	.213	- .945	100	1612	- .229	.312	.593	-1.671
100	1434	- .470	.190	.099	-1.485	100	1525	- .349	.150	.122	-1.066	100	1613	- .609	.412	.566	-2.248
100	1435	- .303	.143	.157	- .901	100	1526	- .334	.143	.127	-1.131	100	1614	- .621	.359	.526	-2.367
100	1436	- .222	.112	.142	- .570	100	1527	- .329	.142	.163	-1.107	100	1615	- .317	.157	.090	-1.159
100	1437	- .275	.145	.167	- .832	100	1528	- .322	.143	.252	- .935	100	1616	- .277	.189	.206	-1.171
100	1438	- .316	.188	.262	-1.346	100	1529	- .325	.144	.274	- .936	100	1617	- .291	.295	.486	-1.552
100	1439	- .311	.200	.179	-1.443	100	1530	- .334	.155	.192	-1.015	100	1618	- .581	.384	.486	-2.287
100	1440	- .255	.169	.226	-1.082	100	1531	- .411	.169	.093	-1.070	100	1619	- .949	.495	.311	-2.767
100	1441	- .235	.151	.197	- .770	100	1532	- .400	.162	.121	-1.021	100	1620	- .312	.200	.231	-1.726
100	1442	- .200	.138	.229	- .705	100	1533	- .397	.158	.170	-1.076	100	1621	- .276	.229	.295	-1.375
100	1443	- .196	.136	.233	- .913	100	1534	- .406	.158	.194	-1.140	100	1622	- .412	.354	.436	-1.778
100	1444	- .189	.142	.261	-1.096	100	1535	- .390	.168	.253	-1.177	100	1623	- .568	.288	.391	-1.556
100	1445	- .174	.155	.301	- .698	100	1536	- .395	.174	.241	-1.270	100	1624	- .608	.282	.657	-1.714
100	1446	- .192	.142	.283	- .754	100	1537	- .426	.199	.269	-1.155	100	1625	- .366	.213	.238	-1.488

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	1626	.347	.240	.344	-1.381	100	1732	.361	.219	1.329	-6.00	100	1838	.143	.199	1.004	-7.31
100	1627	.412	.382	.456	-1.718	100	1733	.355	.234	1.358	-6.10	100	1839	.070	.213	.917	-7.83
100	1628	.611	.318	.566	-1.719	100	1734	.329	.258	1.356	-5.92	100	1840	.045	.208	.692	-1.105
100	1629	.597	.301	.461	-1.648	100	1735	.308	.240	1.574	-4.46	100	1841	.081	.185	.642	-1.066
100	1630	.413	.182	.102	-1.478	100	1736	.154	.193	1.041	-4.74	100	1842	.123	.158	.703	-4.27
100	1631	.324	.221	.223	-1.674	100	1737	.276	.200	1.200	-3.21	100	1843	.155	.182	.898	-3.67
100	1632	.400	.347	.497	-1.934	100	1738	.280	.230	1.076	-8.53	100	1844	.118	.202	.766	-3.38
100	1633	.594	.347	.747	-2.131	100	1739	.195	.238	1.097	-7.38	100	1845	.062	.169	.604	-1.503
100	1634	.624	.321	.668	-2.033	100	1740	.240	.236	1.172	-7.30	100	1846	.061	.160	.610	-1.796
100	1635	.383	.184	.148	-1.345	100	1741	.259	.218	1.156	-7.03	100	1847	.095	.160	.753	-4.05
100	1636	.331	.196	.158	-1.336	100	1742	.219	.217	1.136	-9.76	100	1848	.120	.173	.785	-3.96
100	1637	.325	.290	.399	-1.412	100	1743	.158	.175	1.929	-5.70	100	1849	.124	.180	.814	-4.43
100	1638	.512	.380	.562	-2.044	100	1744	.160	.170	1.771	-4.23	100	1850	.093	.126	.547	-3.75
100	1639	.531	.345	.603	-1.922	100	1801	.140	.261	1.294	-7.82	100	1851	.101	.133	.562	-3.13
100	1640	.046	.145	.400	-1.727	100	1802	.196	.248	1.200	-6.70	100	1852	.112	.139	.560	-3.32
100	1641	.013	.151	.906	-1.426	100	1803	.161	.194	1.090	-5.60	100	1853	.116	.149	.662	-3.50
100	1642	.078	.223	.577	-1.132	100	1804	.010	.194	1.824	-6.84	100	1854	.092	.150	.671	-3.78
100	1643	.205	.279	.689	-1.740	100	1805	.226	.246	1.228	-1.034	100	1901	.232	.130	.204	-7.22
100	1644	.177	.295	.719	-1.348	100	1806	.241	.227	1.229	-7.29	100	1902	.293	.154	.222	-8.24
100	1701	.020	.175	.746	-1.643	100	1807	.189	.214	1.206	-5.64	100	1903	.305	.156	.168	-9.32
100	1702	.176	.207	.975	-1.694	100	1808	.118	.206	1.027	-7.99	100	1904	.239	.151	.288	-8.50
100	1703	.261	.224	1.153	-1.548	100	1809	.009	.191	1.702	-5.73	100	1905	.227	.149	.246	-8.62
100	1704	.202	.214	1.024	-1.046	100	1810	.493	.288	1.558	-4.38	100	1906	.206	.163	.395	-1.073
100	1705	.252	.221	1.048	-1.559	100	1811	.498	.274	1.572	-2.66	100	1908	.232	.164	.364	-9.10
100	1706	.274	.228	1.047	-1.466	100	1812	.372	.214	1.106	-2.72	100	1909	.277	.180	.337	-1.065
100	1707	.298	.258	1.159	-1.677	100	1813	.214	.216	1.143	-3.74	100	1910	.204	.150	.394	-8.64
100	1708	.269	.257	1.164	-1.590	100	1814	.052	.197	1.831	-5.76	100	1911	.344	.148	.147	-9.31
100	1709	.208	.232	1.135	-1.435	100	1815	.517	.250	1.432	-8.35	100	1912	.028	.307	1.175	-1.183
100	1710	.201	.234	1.147	-1.465	100	1816	.516	.235	1.412	-3.44	100	1913	.332	.134	.077	-8.12
100	1711	.360	.232	1.332	-1.546	100	1817	.412	.217	1.237	-2.36	100	1914	.361	.194	.158	-1.398
100	1712	.490	.257	1.489	-1.415	100	1818	.187	.190	1.004	-4.36	100	1915	.528	.236	.216	-1.499
100	1713	.448	.272	1.509	-1.494	100	1819	.035	.187	1.666	-4.88	100	1916	.302	.219	.536	-9.99
100	1714	.413	.265	1.531	-1.516	100	1820	.493	.244	1.447	-3.34	100	1917	.326	.145	.107	-8.02
100	1715	.417	.264	1.438	-1.453	100	1821	.490	.230	1.352	-2.44	100	1918	.395	.180	.163	-1.174
100	1716	.332	.216	1.119	-1.400	100	1822	.415	.215	1.244	-2.71	100	1919	.304	.185	.303	-9.36
100	1717	.480	.233	1.313	-1.455	100	1823	.174	.203	1.203	-4.40	100	1920	.456	.219	.159	-1.378
100	1718	.504	.243	1.343	-1.722	100	1824	.012	.204	1.024	-6.26	100	1921	.521	.211	.165	-1.445
100	1719	.497	.267	1.332	-1.732	100	1825	.332	.233	1.091	-6.92	100	1922	.486	.180	.005	-1.123
100	1720	.432	.273	1.511	-1.599	100	1826	.363	.221	1.261	-7.05	100	1924	.470	.181	.024	-1.100
100	1721	.362	.233	1.703	-1.333	100	1827	.350	.202	1.079	-2.35	100	1925	.564	.239	.109	-2.265
100	1722	.492	.248	1.740	-1.466	100	1828	.163	.202	1.039	-4.16	100	1926	.463	.194	.099	-1.105
100	1723	.489	.219	1.254	-1.677	100	1829	.002	.214	1.943	-6.23	100	1927	.194	.183	.444	-8.19
100	1724	.463	.250	1.288	-1.677	100	1830	.347	.283	1.508	-9.49	100	1928	.324	.247	.545	-1.192
100	1725	.447	.267	1.407	-1.281	100	1831	.343	.224	1.138	-7.38	100	1929	.480	.263	.335	-5.41
100	1726	.273	.210	1.104	-1.361	100	1832	.296	.205	1.052	-2.65	100	1930	.369	.168	.233	-6.66
100	1727	.413	.213	1.146	-1.271	100	1833	.103	.214	1.862	-5.66	100	2301	.211	.132	.233	-7.33
100	1728	.416	.222	1.107	-1.329	100	1834	.028	.241	1.784	-7.44	100	2302	.155	.127	.262	-6.54
100	1729	.311	.231	1.159	-1.357	100	1835	.264	.217	1.045	-6.50	100	2303	.136	.133	.317	-5.92
100	1730	.324	.228	1.121	-1.341	100	1836	.241	.212	1.364	-8.32	100	2304	.145	.132	.305	-6.25
100	1731	.182	.216	.959	-1.471	100	1837	.236	.152	1.850	-0.99	100	2305	.250	.142	.203	-7.92

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	2306	-.161	.128	.229	-.606	100	2434	-.148	.120	.229	-.824	100	2620	-.121	.142	.334	-.678
100	2307	-.163	.118	.238	-.611	100	2435	-.066	.114	.297	-.768	100	2621	-.103	.127	.395	-.566
100	2308	-.167	.119	.218	-.619	100	2501	-.239	.139	.209	-.745	100	2622	-.119	.135	.380	-.706
100	2309	-.254	.129	.179	-.748	100	2502	-.251	.142	.206	-.727	100	2623	-.100	.140	.420	-.744
100	2310	-.216	.126	.184	-.679	100	2503	-.292	.162	.217	-1.015	100	2624	-.186	.144	.330	-.856
100	2311	-.278	.142	.185	-.804	100	2504	-.174	.146	.366	-.727	100	2625	-.103	.129	.360	-.500
100	2312	-.288	.141	.120	-.814	100	2505	-.252	.152	.251	-.835	100	2626	-.086	.130	.434	-.492
100	2313	-.252	.136	.175	-.769	100	2506	-.233	.145	.278	-.735	100	2627	-.099	.139	.506	-.643
100	2314	-.208	.131	.190	-.685	100	2507	-.241	.142	.261	-.670	100	2628	-.114	.140	.426	-.605
100	2315	-.152	.136	.239	-.621	100	2508	-.228	.141	.273	-.706	100	2629	-.111	.136	.331	-.636
100	2316	-.141	.129	.269	-.648	100	2509	-.299	.146	.229	-.765	100	2701	-.096	.193	.751	-1.062
100	2317	-.176	.133	.228	-.703	100	2510	-.243	.140	.260	-.729	100	2702	-.020	.186	.845	-.745
100	2318	-.118	.128	.271	-.606	100	2511	-.166	.148	.333	-.688	100	2703	-.063	.183	.968	-.534
100	2319	-.151	.135	.358	-.605	100	2512	-.249	.154	.308	-.755	100	2704	-.068	.212	.812	-.593
100	2320	-.070	.126	.398	-.488	100	2513	-.250	.130	.179	-.732	100	2705	-.002	.207	.903	-.984
100	2321	-.132	.133	.347	-.559	100	2514	-.256	.150	.149	-.855	100	2706	-.043	.166	.827	-.591
100	2322	-.129	.125	.282	-.567	100	2515	-.209	.150	.252	-.920	100	2707	-.065	.192	.900	-.511
100	2401	-.268	.150	.202	-.828	100	2516	-.189	.137	.331	-.719	100	2708	-.087	.184	1.049	-.478
100	2402	-.250	.145	.187	-.734	100	2517	-.204	.134	.298	-.696	100	2709	-.046	.179	.768	-.643
100	2403	-.227	.142	.199	-.700	100	2518	-.154	.129	.319	-.626	100	2710	-.066	.283	.790	-1.135
100	2404	-.293	.147	.147	-.800	100	2519	-.213	.134	.276	-.674	100	2711	-.059	.273	.849	-1.075
100	2405	-.234	.145	.186	-.750	100	2520	-.222	.147	.180	-.849	100	2712	-.128	.284	.793	-1.258
100	2406	-.221	.144	.195	-.710	100	2521	-.055	.135	.415	-.548	100	2713	-.043	.166	.638	-.524
100	2407	-.303	.156	.179	-.839	100	2522	-.138	.144	.300	-.856	100	2714	-.168	.143	.821	-.249
100	2408	-.260	.156	.171	-.825	100	2523	-.180	.154	.336	-.815	100	2715	-.082	.154	.696	-.406
100	2409	-.267	.158	.219	-1.059	100	2524	-.200	.153	.311	-.844	100	2716	-.021	.169	.674	-.591
100	2410	-.271	.141	.149	-.789	100	2525	-.111	.140	.370	-.701	100	2717	-.024	.172	.602	-.640
100	2411	-.178	.136	.224	-.749	100	2526	-.076	.144	.431	-.527	100	2718	-.074	.188	.714	-.793
100	2412	-.241	.147	.164	-.834	100	2527	-.093	.141	.397	-.515	100	2719	-.004	.149	.691	-.483
100	2413	-.275	.164	.345	-.857	100	2528	-.125	.146	.328	-.697	100	2720	-.067	.174	.705	-.901
100	2414	-.280	.160	.336	-.878	100	2529	-.172	.154	.313	-.688	100	2721	-.063	.209	.705	-.908
100	2415	-.185	.139	.300	-.702	100	2530	-.165	.147	.314	-.766	100	2722	-.083	.204	.874	-.925
100	2416	-.168	.138	.444	-.704	100	2601	-.241	.149	.275	-.839	100	2723	-.003	.177	.823	-.596
100	2417	-.177	.138	.333	-.675	100	2602	-.142	.146	.378	-.757	100	2724	-.043	.173	.720	-.594
100	2418	-.145	.140	.265	-.634	100	2603	-.181	.183	.399	-1.290	100	2725	-.043	.132	.400	-.525
100	2419	-.179	.123	.232	-.634	100	2604	-.212	.199	.519	-1.452	100	2726	-.014	.131	.444	-.525
100	2420	-.158	.145	.284	-.708	100	2605	-.204	.153	.282	-1.002	100	2727	-.011	.129	.447	-.534
100	2421	-.089	.131	.329	-.615	100	2606	-.168	.168	.314	-1.109	100	2728	-.004	.128	.409	-.492
100	2422	-.138	.132	.283	-.593	100	2607	-.228	.203	.342	-1.380	100	2729	-.017	.128	.404	-.415
100	2423	-.149	.144	.269	-1.030	100	2608	-.243	.231	.401	-1.695	100	2730	-.008	.129	.433	-.498
100	2424	-.164	.147	.300	-1.104	100	2609	-.349	.278	.588	-1.875	100	2731	-.041	.137	.486	-.415
100	2425	-.079	.105	.309	-.441	100	2610	-.187	.137	.245	-.793	100	2732	-.072	.139	.574	-.363
100	2426	-.093	.105	.398	-.438	100	2611	-.142	.146	.339	-.738	100	2733	-.051	.138	.536	-.424
100	2427	-.034	.100	.411	-.423	100	2612	-.135	.168	.390	-.884	100	2734	-.054	.146	.542	-.544
100	2428	-.032	.103	.333	-.452	100	2613	-.148	.188	.472	-.904	100	2735	-.009	.151	.401	-.650
100	2429	-.071	.101	.240	-.452	100	2615	-.170	.134	.261	-.658	100	2736	-.018	.147	.382	-.649
100	2430	-.093	.104	.236	-.532	100	2616	-.090	.141	.260	-.733	100	2737	-.074	.131	.615	-.433
100	2431	-.039	.105	.312	-.673	100	2617	-.137	.178	.583	-.923	100	2738	-.091	.131	.644	-.399
100	2432	-.102	.107	.277	-.615	100	2618	-.191	.183	.387	-1.126	100	2739	-.082	.130	.518	-.319
100	2433	-.146	.115	.234	-.599	100	2619	-.219	.185	.394	-1.296	100	2801	-.113	.177	.993	-.477



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	2802	.260	.183	.902	-.347	100	2928	.032	.198	1.127	-.528	110	1144	-.373	.271	.421	-1.450
100	2803	.272	.195	.160	-.293	100	2930	.138	.158	.757	-.461	110	1145	-.266	.332	.761	-1.586
100	2804	.222	.212	.156	-.417	100	2931	.123	.125	.777	-.288	110	1146	-.116	.296	.710	-1.299
100	2805	.227	.211	.805	-.860	100	2932	.140	.129	.896	-.191	110	1147	.007	.283	.810	-1.350
100	2806	.060	.250	.346	-1.223	100	2933	.078	.104	.513	-.218	110	1148	-.056	.244	.902	-1.112
100	2807	.086	.259	.032	-1.463	100	2934	.185	.198	.725	-.089	110	1149	.139	.247	.699	-1.552
100	2808	.130	.203	.693	-1.172	100	2935	.118	.107	.594	-.207	110	1150	-.156	.291	.552	-1.319
100	2809	.036	.165	.558	-.881	110	1101	-.570	.255	.133	-1.678	110	1151	.056	.297	.920	-1.791
100	2810	.024	.148	.463	-.504	110	1102	-.486	.240	.171	-1.482	110	1152	.011	.232	.838	-1.416
100	2811	.053	.148	.459	-.512	110	1103	-.274	.201	.413	-.098	110	1153	.070	.195	.962	-1.633
100	2812	.020	.145	.389	-.596	110	1104	-.228	.169	.259	-.994	110	1154	.014	.188	.774	-1.178
100	2813	.004	.144	.437	-.515	110	1105	-.185	.160	.351	-.852	110	1155	.028	.180	.770	-1.918
100	2814	.040	.134	.481	-.435	110	1106	-.492	.223	.160	-.317	110	1156	.024	.192	.697	-1.116
100	2815	.036	.153	.684	-.572	110	1107	-.494	.226	.165	-.335	110	1157	.047	.204	.684	-1.360
100	2816	.022	.147	.718	-.505	110	1108	-.508	.232	.162	-.584	110	1158	.111	.160	.866	-1.520
100	2817	.022	.130	.650	-.411	110	1109	-.423	.199	.071	-1.278	110	1159	.137	.158	.020	-1.386
100	2818	.059	.134	.593	-.435	110	1110	-.186	.172	.477	-.906	110	1160	.068	.150	.804	-1.414
100	2819	.011	.142	.521	-.484	110	1111	-.108	.196	.796	-.875	110	1161	.058	.168	.625	-1.806
100	2820	.068	.129	.451	-.456	110	1112	-.066	.192	.756	-.948	110	1162	.036	.184	.638	-1.899
100	2821	.079	.128	.454	-.413	110	1113	-.406	.173	.302	-.996	110	1163	.091	.143	.613	-1.362
100	2822	.071	.128	.553	-.409	110	1114	-.417	.180	.298	-.012	110	1164	.117	.158	.662	-1.509
100	2823	.066	.142	.597	-.380	110	1115	-.474	.197	.235	-.171	110	1165	.107	.154	.779	-1.429
100	2824	.028	.149	.591	-.405	110	1116	-.337	.208	.428	-.025	110	1166	.146	.151	.665	-1.447
100	2901	.156	.131	.281	-.666	110	1117	-.140	.225	.770	-.840	110	1201	-.177	.155	.348	-1.855
100	2902	.154	.136	.322	-.797	110	1118	-.167	.272	.974	-.245	110	1202	-.266	.164	.332	-1.985
100	2903	.144	.139	.348	-.577	110	1119	-.282	.156	.248	-.824	110	1203	-.160	.142	.375	-1.739
100	2904	.142	.134	.331	-.585	110	1120	-.320	.162	.228	-.904	110	1204	-.173	.140	.328	-1.739
100	2905	.154	.137	.345	-.580	110	1121	-.320	.171	.244	-.886	110	1205	-.315	.172	.211	-1.137
100	2906	.133	.137	.331	-.550	110	1122	-.273	.244	.613	-.139	110	1206	-.286	.167	.213	-1.161
100	2907	.233	.144	.222	-.741	110	1123	-.185	.261	.870	-.048	110	1207	-.282	.166	.315	-1.034
100	2908	.232	.138	.227	-.663	110	1124	-.192	.296	.969	-.784	110	1208	-.277	.149	.187	-1.986
100	2909	.221	.142	.243	-.805	110	1125	-.346	.171	.216	-.966	110	1209	-.267	.149	.214	-1.143
100	2910	.267	.149	.232	-.944	110	1126	-.333	.169	.215	-.960	110	1210	-.183	.158	.356	-1.884
100	2911	.138	.135	.365	-.626	110	1127	-.327	.203	.559	-.136	110	1211	-.269	.165	.277	-1.137
100	2912	.233	.140	.356	-.866	110	1128	-.268	.255	.637	-.223	110	1212	-.164	.143	.272	-1.950
100	2913	.260	.147	.292	-1.047	110	1129	-.191	.270	.763	-.120	110	1213	-.170	.154	.459	-1.908
100	2914	.128	.146	.363	-.745	110	1130	-.155	.276	.005	-.558	110	1214	-.139	.151	.411	-1.878
100	2915	.371	.163	.173	-1.251	110	1131	-.305	.193	.308	-.044	110	1215	-.222	.175	.404	-1.265
100	2916	.020	.163	.567	-.626	110	1132	-.292	.186	.427	-.943	110	1216	-.276	.104	.004	-1.623
100	2917	.216	.140	.235	-.713	110	1133	-.287	.234	.720	-.964	110	1217	-.173	.152	.271	-1.108
100	2918	.372	.156	.162	-1.254	110	1134	-.204	.277	.597	-.227	110	1218	-.206	.151	.225	-1.833
100	2919	.019	.213	.401	-1.085	110	1135	-.081	.271	.810	-.879	110	1219	-.196	.155	.215	-1.917
100	2920	.087	.298	.190	-.415	110	1136	-.057	.272	.761	-.425	110	1220	-.243	.181	.346	-1.293
100	2921	.111	.184	.526	-1.271	110	1137	-.270	.223	.425	-.159	110	1221	-.233	.176	.342	-1.390
100	2922	.157	.225	.488	-1.124	110	1138	-.288	.253	.423	-.576	110	1222	-.246	.171	.407	-1.469
100	2923	.157	.163	.388	-.843	110	1139	-.288	.288	.699	-.404	110	1223	-.241	.167	.291	-1.483
100	2924	.198	.187	.540	-1.233	110	1140	-.077	.279	.781	-.142	110	1224	-.231	.180	.343	-1.244
100	2925	.084	.268	.115	-1.255	110	1141	-.077	.283	.755	-.002	110	1225	-.247	.194	.327	-1.132
100	2926	.171	.171	.970	-.401	110	1142	-.097	.269	.714	-.207	110	1226	-.269	.192	.313	-1.185
100	2927	.068	.178	.221	-.442	110	1143	-.319	.242	.342	-.285	110	1227	-.237	.186	.265	-1.041

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	1228	-.263	.196	.322	-.1283	110	1319	-.169	.140	.325	-.603	110	1410	-.149	.135	.351	-.648
110	1229	-.275	.205	.281	-.1545	110	1320	-.248	.133	.189	-.725	110	1411	-.241	.141	.306	-.830
110	1230	-.355	.203	.158	-.1166	110	1321	-.185	.141	.331	-.765	110	1412	-.168	.101	.175	-.666
110	1231	-.385	.195	.228	-.1440	110	1322	-.204	.141	.319	-.739	110	1413	-.197	.131	.327	-.756
110	1232	-.368	.194	.322	-.1286	110	1323	-.197	.139	.337	-.645	110	1414	-.178	.131	.347	-.787
110	1233	-.410	.207	.226	-.1482	110	1324	-.193	.139	.168	-.999	110	1415	-.281	.154	.147	-.996
110	1234	-.347	.193	.214	-.1271	110	1325	-.287	.135	.089	-.780	110	1416	-.278	.150	.149	-.931
110	1235	-.397	.217	.124	-.1664	110	1326	-.232	.162	.277	-.999	110	1417	-.269	.143	.175	-.750
110	1236	-.422	.242	.169	-.2015	110	1327	-.211	.151	.274	-.794	110	1418	-.300	.134	.169	-.803
110	1237	-.427	.233	.331	-.2041	110	1328	-.214	.133	.201	-.790	110	1419	-.319	.148	.217	-.942
110	1238	-.369	.214	.243	-.1492	110	1329	-.232	.135	.205	-.816	110	1420	-.336	.153	.062	-.901
110	1239	-.343	.220	.298	-.1744	110	1330	-.335	.162	.171	-.965	110	1421	-.324	.147	.064	-.962
110	1240	-.434	.292	.361	-.2574	110	1331	-.298	.174	.253	-.825	110	1422	-.309	.156	.155	-.883
110	1241	-.441	.255	.286	-.1951	110	1332	-.338	.163	.203	-.815	110	1423	-.318	.160	.149	-.847
110	1242	-.330	.229	.377	-.1530	110	1333	-.336	.162	.200	-.815	110	1424	-.332	.162	.149	-.914
110	1243	-.185	.161	.370	-.1962	110	1334	-.374	.167	.163	-.807	110	1425	-.349	.183	.172	-.411
110	1244	-.197	.172	.345	-.1027	110	1335	-.306	.163	.139	-.943	110	1426	-.348	.175	.185	-.093
110	1245	-.245	.213	.302	-.1526	110	1336	-.320	.143	.107	-.889	110	1427	-.381	.181	.165	-.194
110	1246	-.221	.166	.347	-.1233	110	1337	-.294	.134	.095	-.815	110	1428	-.412	.189	.161	-.220
110	1247	-.146	.177	.385	-.1934	110	1338	-.188	.127	.160	-.683	110	1429	-.411	.189	.166	-.174
110	1248	-.097	.153	.389	-.678	110	1339	-.246	.131	.114	-.807	110	1430	-.291	.166	.140	-.127
110	1249	-.107	.132	.343	-.698	110	1340	-.249	.148	.173	-.313	110	1431	-.291	.171	.158	-.128
110	1250	-.103	.136	.373	-.583	110	1341	-.179	.119	.192	-.681	110	1432	-.343	.188	.180	-.182
110	1251	-.089	.137	.391	-.594	110	1342	-.091	.112	.253	-.563	110	1433	-.398	.200	.188	-.454
110	1252	-.091	.134	.397	-.538	110	1344	-.160	.117	.265	-.769	110	1434	-.421	.197	.381	-.350
110	1253	-.067	.141	.520	-.624	110	1345	-.145	.115	.267	-.909	110	1435	-.199	.142	.221	-.924
110	1254	-.088	.130	.403	-.551	110	1346	-.016	.100	.348	-.465	110	1436	-.149	.111	.199	-.637
110	1255	-.014	.133	.524	-.458	110	1347	-.074	.103	.301	-.441	110	1437	-.190	.151	.291	-.197
110	1256	-.026	.134	.513	-.496	110	1348	-.099	.110	.330	-.577	110	1438	-.225	.191	.301	-.455
110	1257	-.014	.137	.516	-.504	110	1349	-.091	.109	.314	-.539	110	1439	-.259	.224	.337	-.567
110	1258	-.005	.130	.446	-.500	110	1350	-.007	.101	.367	-.323	110	1440	-.160	.124	.263	-.532
110	1259	-.010	.135	.484	-.453	110	1351	-.043	.110	.344	-.415	110	1441	-.156	.135	.263	-.597
110	1301	-.244	.140	.130	-.767	110	1352	-.070	.110	.299	-.560	110	1442	-.144	.131	.296	-.642
110	1302	-.266	.142	.137	-.781	110	1353	-.055	.102	.289	-.455	110	1443	-.155	.129	.279	-.613
110	1303	-.269	.145	.147	-.790	110	1354	-.038	.091	.350	-.295	110	1444	-.145	.132	.314	-.594
110	1304	-.133	.142	.303	-.755	110	1355	-.041	.108	.378	-.510	110	1445	-.118	.117	.298	-.553
110	1305	-.164	.145	.257	-.734	110	1356	-.072	.147	.433	-.651	110	1446	-.093	.128	.281	-.567
110	1306	-.140	.139	.344	-.720	110	1357	-.091	.149	.451	-.870	110	1447	-.090	.129	.302	-.618
110	1307	-.105	.135	.344	-.681	110	1358	-.045	.134	.449	-.796	110	1448	-.111	.131	.297	-.585
110	1308	-.203	.147	.293	-.826	110	1359	-.023	.130	.550	-.486	110	1449	-.107	.135	.316	-.574
110	1309	-.207	.130	.345	-.653	110	1360	-.024	.133	.298	-.501	110	1450	-.047	.127	.385	-.495
110	1310	-.134	.122	.370	-.538	110	1401	-.168	.139	.258	-.830	110	1451	-.059	.129	.351	-.510
110	1311	-.146	.138	.264	-.715	110	1402	-.133	.134	.269	-.982	110	1452	-.040	.129	.353	-.485
110	1312	-.234	.145	.191	-.858	110	1403	-.240	.147	.248	-.857	110	1453	-.039	.125	.407	-.433
110	1313	-.151	.134	.243	-.752	110	1404	-.170	.140	.301	-.788	110	1454	-.047	.125	.343	-.561
110	1314	-.263	.128	.165	-.733	110	1405	-.184	.140	.272	-.753	110	1455	-.005	.103	.335	-.421
110	1315	-.179	.123	.225	-.732	110	1406	-.140	.132	.283	-.635	110	1456	-.035	.143	.436	-.530
110	1316	-.157	.142	.394	-.694	110	1407	-.238	.142	.216	-.785	110	1457	-.033	.125	.372	-.466
110	1317	-.156	.139	.337	-.571	110	1408	-.164	.136	.284	-.717	110	1458	-.031	.125	.378	-.452
110	1318	-.184	.142	.322	-.619	110	1409	-.176	.147	.422	-.827	110	1459	-.049	.127	.370	-.475

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	1501	-220	158	321	-791	110	1551	-155	123	220	-610	110	1639	-228	303	638	-1637
110	1502	-182	148	317	-963	110	1552	-135	119	250	-624	110	1640	-031	130	470	-475
110	1503	-413	201	193	-1277	110	1553	-133	126	390	-573	110	1641	037	143	689	-430
110	1504	-504	231	149	-1573	110	1554	-149	139	406	-652	110	1642	051	173	654	-543
110	1505	-610	270	166	-1634	110	1555	-134	137	405	-658	110	1643	-018	228	797	-1098
110	1506	-278	193	499	-1138	110	1556	-150	131	420	-660	110	1644	054	267	862	-1558
110	1507	-225	161	609	-951	110	1557	-247	138	358	-709	110	1701	114	169	850	-394
110	1508	-334	164	310	-1029	110	1558	-152	135	291	-819	110	1702	241	200	1139	-383
110	1509	-405	180	066	-1397	110	1559	-152	139	271	-793	110	1703	269	208	1121	-427
110	1510	-393	167	109	-1241	110	1560	-121	129	391	-638	110	1704	222	224	1246	-375
110	1511	-372	156	134	-867	110	1561	-076	129	408	-585	110	1705	244	227	1315	-450
110	1512	-366	155	140	-865	110	1562	-020	125	481	-456	110	1706	258	221	1336	-353
110	1513	-259	159	481	-951	110	1601	-318	225	433	-323	110	1707	296	224	1452	-331
110	1514	-345	155	205	-1084	110	1602	-282	249	490	-1617	110	1708	278	225	1429	-324
110	1515	-250	143	222	-913	110	1603	-381	244	666	-213	110	1709	306	245	1564	-402
110	1516	-361	143	077	-896	110	1604	-484	243	481	-1527	110	1710	304	254	1654	-392
110	1517	-362	142	078	-836	110	1605	-113	143	367	-843	110	1711	410	244	1263	-346
110	1518	-359	153	122	-1157	110	1606	-127	170	594	-1003	110	1712	486	260	1668	-299
110	1519	-358	151	085	-1014	110	1607	-115	237	589	-1374	110	1713	469	262	1635	-244
110	1520	-344	142	081	-830	110	1608	-160	257	626	-1107	110	1714	504	253	1514	-174
110	1521	-328	146	183	-871	110	1609	-312	266	600	-1674	110	1715	490	273	1645	-355
110	1522	-336	144	174	-887	110	1610	-219	146	315	-799	110	1716	404	228	1406	-343
110	1523	-351	151	165	-948	110	1611	-117	156	501	-925	110	1717	473	233	1456	-415
110	1524	-347	159	174	-1102	110	1612	-000	219	761	-1016	110	1718	491	233	1355	-339
110	1525	-337	167	190	-1059	110	1613	-185	433	854	-1809	110	1719	505	260	1308	-195
110	1526	-354	167	339	-1255	110	1614	-250	402	930	-1617	110	1720	617	245	1586	-677
110	1527	-367	163	360	-1416	110	1615	-265	154	191	-977	110	1721	440	225	1399	-194
110	1528	-379	153	161	-1149	110	1616	-165	172	455	-877	110	1722	532	232	1435	-162
110	1529	-362	147	147	-1007	110	1617	-042	248	881	-1391	110	1723	519	242	1291	-206
110	1530	-345	152	089	-932	110	1618	-176	405	071	-1860	110	1724	520	255	1298	-282
110	1531	-417	185	478	-1334	110	1619	-348	453	993	-1875	110	1725	571	232	1397	-667
110	1532	-410	174	475	-1221	110	1620	-245	158	265	-1088	110	1726	338	208	1101	-290
110	1533	-431	167	297	-1222	110	1621	-156	186	421	-1248	110	1727	436	246	1325	-285
110	1534	-425	152	064	-995	110	1622	-114	350	824	-1817	110	1728	441	250	1330	-282
110	1535	-387	164	124	-917	110	1623	-320	327	768	-1256	110	1729	395	269	1365	-319
110	1536	-385	163	147	-906	110	1624	-309	344	929	-1541	110	1730	593	271	1692	-116
110	1537	-334	220	504	-1143	110	1625	-290	156	224	-1115	110	1731	256	190	1028	-277
110	1538	-367	211	465	-1116	110	1626	-187	170	328	-1088	110	1732	391	210	1297	-188
110	1539	-490	209	202	-1279	110	1627	-111	298	537	-1405	110	1733	393	215	1291	-253
110	1540	-517	203	063	-1642	110	1628	-325	349	748	-1508	110	1734	383	222	1314	-340
110	1541	-469	184	081	-1221	110	1629	-341	327	786	-1544	110	1735	435	227	1228	-501
110	1542	-457	186	107	-1265	110	1630	-357	177	193	-1433	110	1736	241	216	1041	-410
110	1543	-072	198	876	-1214	110	1631	-207	150	254	-1037	110	1737	323	225	1215	-348
110	1544	-062	201	869	-935	110	1632	-119	278	490	-1696	110	1738	334	184	1044	-230
110	1545	-153	212	886	-1354	110	1633	-278	360	654	-1716	110	1739	282	198	1045	-253
110	1546	-566	321	593	-2086	110	1634	-326	344	719	-1703	110	1740	304	186	951	-247
110	1547	-651	272	043	-1847	110	1635	-287	146	237	-905	110	1741	298	213	1202	-334
110	1548	-527	215	078	-1803	110	1636	-196	147	350	-994	110	1742	275	205	1106	-326
110	1549	-147	132	311	-623	110	1637	-037	210	534	-1219	110	1743	234	186	1047	-436
110	1550	-152	124	212	-597	110	1638	-180	322	625	-1501	110	1744	178	178	897	-422

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	1801	-.080	.297	.953	-1.141	110	1851	.105	.135	.524	-.329	110	2319	-.141	.134	.396	-.602
110	1802	-.021	.275	.949	-.877	110	1852	.112	.138	.553	-.351	110	2320	-.140	.135	.299	-.589
110	1803	-.020	.223	1.059	-.693	110	1853	.117	.149	.657	-.376	110	2321	-.126	.130	.308	-.537
110	1804	-.128	.193	.732	-.963	110	1854	-.088	.153	.613	-.408	110	2322	-.127	.130	.341	-.536
110	1805	.087	.306	.991	-1.074	110	1901	-.182	.135	.246	-.678	110	2401	-.243	.144	.200	-.779
110	1806	.086	.261	.909	-1.186	110	1902	-.320	.158	.115	-1.063	110	2402	-.223	.141	.214	-.801
110	1807	.058	.203	.755	-.781	110	1903	-.245	.167	.205	-1.000	110	2403	-.209	.147	.175	-.891
110	1808	-.041	.188	.708	-.755	110	1904	-.179	.155	.329	-.781	110	2404	-.274	.151	.161	-.952
110	1809	-.176	.186	.500	-.801	110	1905	-.196	.153	.405	-1.101	110	2405	-.222	.159	.299	-.905
110	1810	.290	.345	1.458	-1.108	110	1906	-.147	.158	.387	-.985	110	2406	-.211	.157	.305	-.798
110	1811	.322	.295	1.351	-1.125	110	1908	-.198	.170	.372	-1.069	110	2407	-.299	.170	.259	-1.049
110	1812	.250	.207	1.017	-.331	110	1909	-.221	.189	.450	-1.228	110	2408	-.261	.175	.302	-.976
110	1813	.001	.183	.672	-.749	110	1910	-.167	.172	.470	-.976	110	2409	-.269	.172	.184	-1.199
110	1814	-.186	.168	.472	-.933	110	1911	-.383	.156	.165	-1.059	110	2410	-.266	.146	.175	-.824
110	1815	.391	.334	1.258	-.933	110	1912	-.230	.228	1.432	-.966	110	2411	-.224	.136	.169	-.721
110	1816	.425	.295	1.183	-.556	110	1913	-.371	.142	.054	-1.001	110	2412	-.206	.132	.161	-.727
110	1817	.343	.218	.978	-.596	110	1914	-.356	.211	.303	-1.157	110	2413	-.246	.145	.203	-.842
110	1818	.123	.181	.825	-.564	110	1915	-.605	.257	.150	-2.016	110	2414	-.266	.149	.153	-.855
110	1819	.006	.152	.575	-.492	110	1916	-.386	.183	.374	-1.028	110	2415	-.161	.147	.369	-.653
110	1820	.378	.306	1.352	-.748	110	1917	-.382	.149	.130	-.889	110	2416	-.191	.137	.242	-.814
110	1821	.388	.284	1.261	-.624	110	1918	-.358	.160	.295	-.931	110	2417	-.235	.144	.185	-.727
110	1822	.349	.199	1.070	-.284	110	1919	-.366	.165	.192	-1.014	110	2418	-.171	.131	.311	-.631
110	1823	.109	.165	.698	-.532	110	1920	-.434	.205	.132	-1.288	110	2419	-.174	.154	.261	-.768
110	1824	.074	.158	.486	-.714	110	1921	-.469	.202	.128	-1.250	110	2420	-.182	.144	.293	-.672
110	1825	.288	.324	1.229	-1.687	110	1922	-.476	.181	.069	-1.129	110	2421	-.155	.140	.348	-.729
110	1826	.356	.292	1.434	-1.288	110	1924	-.469	.182	.078	-1.144	110	2422	-.162	.144	.291	-.829
110	1827	.282	.199	1.044	-.472	110	1925	-.486	.205	.156	-1.496	110	2423	-.178	.150	.306	-.921
110	1828	.080	.168	.676	-.446	110	1926	-.478	.195	.263	-1.159	110	2424	-.044	.099	.332	-.372
110	1829	.091	.173	.535	-.693	110	1927	-.252	.183	.419	-.904	110	2425	-.088	.102	.265	-.475
110	1830	.264	.316	1.215	-.978	110	1928	-.514	.237	.286	-1.327	110	2426	-.042	.100	.307	-.403
110	1831	.305	.303	1.180	-1.691	110	1929	-.493	.233	1.448	-.209	110	2427	-.035	.096	.352	-.338
110	1832	.274	.211	1.069	-.721	110	1930	-.400	.162	.281	-1.097	110	2428	-.090	.106	.255	-.337
110	1833	.033	.195	.685	-.760	110	2301	-.170	.134	.295	-.649	110	2429	-.035	.096	.242	-.447
110	1834	.258	.202	.511	-.932	110	2302	-.110	.127	.325	-.546	110	2430	-.050	.112	.259	-.492
110	1835	.095	.251	1.187	-.993	110	2303	-.106	.126	.318	-.582	110	2431	-.118	.111	.214	-.512
110	1836	.123	.282	1.097	-1.221	110	2304	-.119	.125	.276	-.589	110	2432	-.187	.125	.169	-.692
110	1837	.141	.132	.800	-.252	110	2305	-.230	.137	.196	-.755	110	2433	-.198	.132	.163	-.945
110	1838	.017	.182	.826	-.656	110	2306	-.137	.132	.242	-.661	110	2434	-.112	.125	.232	-.815
110	1839	.131	.204	.893	-1.200	110	2307	-.134	.131	.314	-.620	110	2435	-.203	.140	.242	-.724
110	1840	.092	.249	.777	-.344	110	2308	-.138	.132	.307	-.631	110	2501	-.216	.148	.260	-.735
110	1841	.026	.235	.652	-.444	110	2309	-.233	.146	.245	-.746	110	2502	-.276	.164	.244	-.845
110	1842	.062	.164	.611	-.502	110	2310	-.196	.144	.290	-.717	110	2503	-.126	.146	.451	-.677
110	1843	.033	.160	.783	-.531	110	2311	-.285	.144	.190	-.842	110	2504	-.210	.153	.302	-.820
110	1844	.030	.189	.656	-.803	110	2312	-.296	.146	.157	-.843	110	2505	-.205	.148	.298	-.836
110	1845	.017	.185	.524	-.715	110	2313	-.266	.143	.176	-.738	110	2506	-.230	.162	.336	-.866
110	1846	.004	.157	.522	-.552	110	2314	-.201	.136	.222	-.755	110	2507	-.216	.160	.328	-.891
110	1847	.075	.154	.622	-.461	110	2315	-.138	.126	.296	-.598	110	2508	-.289	.164	.255	-.889
110	1848	.074	.164	.716	-.549	110	2316	-.124	.141	.368	-.611	110	2509	-.225	.156	.280	-.782
110	1849	.074	.169	.914	-.618	110	2317	-.161	.144	.351	-.663	110	2510	-.249	.164	.410	-.902
110	1850	.088	.136	.586	-.446	110	2318	-.176	.147	.358	-.684	110	2511	-.141	.134	.396	-.602

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	2512	237	151	205	868	110	2704	188	218	950	480	110	2815	002	160	633	635
110	2513	283	141	147	850	110	2705	102	207	189	604	110	2816	008	156	568	911
110	2514	245	158	270	808	110	2706	134	177	949	372	110	2817	012	141	512	460
110	2515	269	163	246	825	110	2707	131	199	988	452	110	2818	041	131	438	409
110	2516	204	156	257	776	110	2708	172	205	849	437	110	2819	041	141	570	368
110	2517	219	152	266	726	110	2709	173	191	020	360	110	2820	028	130	538	433
110	2518	247	154	255	754	110	2710	126	237	944	849	110	2821	033	128	516	428
110	2519	219	148	282	735	110	2711	133	236	929	845	110	2822	084	124	522	366
110	2520	205	140	279	793	110	2712	068	248	968	062	110	2823	092	133	550	466
110	2521	135	154	407	024	110	2713	069	204	929	572	110	2824	082	140	561	463
110	2522	151	147	302	816	110	2714	273	154	956	282	110	2901	178	144	224	803
110	2523	195	156	215	896	110	2715	082	206	121	557	110	2902	181	152	253	034
110	2524	203	148	217	878	110	2716	099	204	196	536	110	2903	130	135	268	871
110	2525	184	144	290	156	110	2717	148	198	930	419	110	2904	127	128	280	626
110	2526	031	144	588	501	110	2718	063	175	800	535	110	2905	151	134	285	706
110	2527	037	146	663	521	110	2719	037	181	800	499	110	2906	109	129	271	640
110	2528	104	147	786	661	110	2720	052	194	881	563	110	2907	229	127	165	679
110	2529	192	168	381	465	110	2721	075	214	806	668	110	2908	211	122	156	610
110	2530	172	145	329	137	110	2722	064	212	809	682	110	2909	172	138	264	699
110	2601	201	149	316	701	110	2723	075	206	823	623	110	2910	227	151	320	884
110	2602	091	146	441	632	110	2724	095	188	789	548	110	2911	084	130	368	355
110	2603	091	157	506	720	110	2725	004	124	544	391	110	2912	164	159	426	370
110	2604	112	165	546	766	110	2726	025	128	550	402	110	2913	223	146	210	267
110	2605	143	143	403	618	110	2727	035	127	572	432	110	2914	154	133	351	667
110	2606	075	155	551	980	110	2728	048	139	745	430	110	2915	313	165	304	039
110	2607	117	190	566	980	110	2729	040	141	687	427	110	2916	020	164	595	631
110	2608	132	223	637	145	110	2730	037	134	695	411	110	2917	203	132	172	114
110	2609	224	243	561	728	110	2731	058	140	533	413	110	2918	361	184	179	057
110	2610	139	142	389	658	110	2732	096	149	664	353	110	2919	121	181	448	167
110	2611	111	139	426	679	110	2733	088	152	632	357	110	2920	126	259	090	922
110	2612	066	170	562	826	110	2734	095	151	648	361	110	2921	092	172	471	975
110	2613	173	219	557	329	110	2735	096	154	613	430	110	2922	149	202	117	157
110	2615	155	122	267	565	110	2736	069	143	562	421	110	2923	120	169	470	772
110	2616	106	137	569	561	110	2737	077	129	544	370	110	2924	183	172	402	054
110	2617	032	156	515	566	110	2738	077	129	550	381	110	2925	121	238	122	178
110	2618	106	182	446	859	110	2739	071	128	562	379	110	2926	164	179	014	303
110	2619	140	184	445	037	110	2801	168	177	033	519	110	2927	156	177	897	337
110	2620	084	129	351	470	110	2802	211	196	117	336	110	2928	152	183	252	391
110	2621	076	130	384	517	110	2803	280	200	084	231	110	2930	135	141	749	313
110	2622	076	140	356	566	110	2804	245	215	105	313	110	2931	155	126	645	293
110	2623	142	153	292	832	110	2805	096	220	952	041	110	2932	113	121	517	250
110	2624	136	148	328	796	110	2806	080	223	914	736	110	2933	097	127	668	299
110	2625	065	125	319	517	110	2807	044	226	836	876	110	2934	171	109	555	161
110	2626	027	126	413	460	110	2808	023	203	840	888	110	2935	090	270	452	422
110	2627	005	144	531	799	110	2809	057	176	849	703	120	1101	589	270	209	642
110	2628	033	149	553	698	110	2810	012	168	615	754	120	1102	493	240	225	342
110	2629	054	138	438	628	110	2811	051	163	590	699	120	1103	268	189	366	159
110	2701	004	176	749	666	110	2812	049	151	525	581	120	1104	208	163	324	388
110	2702	111	176	818	631	110	2813	044	139	492	459	120	1105	157	158	354	455
110	2703	147	187	232	421	110	2814	025	142	479	480	120	1106	428	189	062	092



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	1107	428	190	060	-1.085	120	1157	129	196	454	-1.150	120	1241	297	220	339	-1.705
120	1108	442	197	046	-1.192	120	1158	093	158	834	-524	120	1242	203	174	313	-1.060
120	1109	382	188	154	-1.271	120	1159	148	164	939	-310	120	1243	153	169	414	-1.261
120	1110	196	152	319	-700	120	1160	158	191	1.025	-436	120	1244	133	152	331	-1.184
120	1111	175	185	627	-937	120	1161	017	133	4.005	-508	120	1245	134	189	411	-1.535
120	1112	133	197	606	-955	120	1162	055	146	4.088	-755	120	1246	156	177	331	-1.488
120	1113	344	169	208	-1.005	120	1163	027	116	4.688	-422	120	1247	091	168	529	-920
120	1114	355	174	209	-1.052	120	1164	175	147	8.001	-221	120	1248	071	137	358	-740
120	1115	400	186	154	-1.200	120	1165	074	132	4.689	-347	120	1249	087	137	312	-647
120	1116	345	189	233	-1.253	120	1166	186	144	7.789	-211	120	1250	063	140	439	-886
120	1117	210	180	650	-1.013	120	1201	123	149	4.222	-733	120	1251	043	135	461	-707
120	1118	240	223	752	-1.360	120	1202	217	160	3.433	-875	120	1252	048	130	490	-516
120	1119	392	147	202	-888	120	1203	118	146	3.444	-780	120	1253	041	129	353	-521
120	1120	330	151	189	-937	120	1204	132	155	4.416	-865	120	1254	049	143	402	-552
120	1121	323	155	179	-940	120	1205	291	177	2.766	-1.163	120	1255	010	128	457	-422
120	1122	290	172	227	-993	120	1206	258	170	3.21	-977	120	1256	016	127	443	-421
120	1123	267	177	375	-1.051	120	1207	218	158	2.998	-904	120	1257	014	121	379	-466
120	1124	303	211	511	-1.409	120	1208	233	151	2.221	-1.042	120	1258	023	128	479	-400
120	1125	353	211	113	-1.076	120	1209	231	150	2.216	-1.013	120	1259	002	121	416	-459
120	1126	339	160	113	-1.062	120	1210	144	160	3.381	-722	120	1301	201	155	254	-809
120	1127	353	172	264	-1.312	120	1211	225	166	3.325	-892	120	1302	212	152	219	-778
120	1128	358	193	476	-1.562	120	1212	117	142	3.363	-728	120	1303	213	154	244	-803
120	1129	356	199	741	-1.359	120	1213	143	147	3.358	-825	120	1304	087	134	380	-656
120	1130	442	212	603	-1.374	120	1214	115	151	3.922	-1.437	120	1305	094	132	334	-530
120	1131	353	160	090	-917	120	1215	232	164	2.663	-897	120	1306	096	133	366	-618
120	1132	364	158	274	-1.008	120	1216	318	100	0.009	-661	120	1307	060	129	409	-562
120	1133	384	189	306	-1.144	120	1217	208	157	3.21	-960	120	1308	161	142	369	-712
120	1134	387	187	333	-1.158	120	1218	249	164	2.544	-1.042	120	1309	172	148	270	-844
120	1135	319	203	363	-1.100	120	1219	239	167	2.81	-1.110	120	1310	093	138	326	-716
120	1136	321	203	510	-1.092	120	1220	280	167	2.779	-845	120	1311	082	124	341	-530
120	1137	381	185	224	-1.151	120	1221	273	164	2.771	-909	120	1312	169	133	268	-709
120	1138	399	189	191	-1.305	120	1222	293	165	2.004	-935	120	1313	086	123	317	-614
120	1139	440	222	335	-1.510	120	1223	287	169	1.888	-1.074	120	1314	218	138	189	-727
120	1140	353	235	459	-1.599	120	1224	278	170	2.935	-1.077	120	1315	134	127	252	-765
120	1141	231	222	847	-1.122	120	1225	277	170	3.007	-1.005	120	1316	190	136	212	-801
120	1142	235	254	668	-1.216	120	1226	298	172	2.884	-920	120	1317	186	133	205	-687
120	1143	443	221	300	-1.502	120	1227	265	168	2.662	-935	120	1318	217	137	172	-697
120	1144	487	236	283	-1.636	120	1228	334	180	1.933	-1.017	120	1319	197	136	200	-704
120	1145	477	291	494	-1.678	120	1229	348	187	1.94	-1.237	120	1320	266	146	263	-875
120	1146	323	323	551	-2.046	120	1230	409	210	1.90	-1.356	120	1321	221	140	362	-745
120	1147	223	323	533	-2.229	120	1231	462	198	0.800	-1.513	120	1322	238	138	301	-726
120	1148	201	299	633	-2.229	120	1232	421	193	1.79	-1.366	120	1323	225	137	307	-702
120	1149	254	198	422	-1.543	120	1233	380	181	1.633	-1.425	120	1324	219	142	274	-839
120	1150	274	214	415	-1.385	120	1234	453	210	0.733	-1.443	120	1325	285	156	141	-955
120	1151	298	224	596	-1.955	120	1235	512	255	1.283	-1.765	120	1326	284	150	196	-850
120	1152	165	283	849	-1.895	120	1236	487	265	1.566	-1.752	120	1327	357	146	197	-880
120	1153	040	215	1.667	-1.667	120	1237	385	236	1.94	-1.454	120	1328	332	148	271	-866
120	1154	052	218	971	-765	120	1238	303	210	2.222	-1.558	120	1329	306	151	223	-767
120	1155	045	140	525	-720	120	1239	273	214	2.852	-1.625	120	1330	306	167	173	-095
120	1156	090	150	496	-783	120	1240	310	279	4.22	-1.938	120	1331	320	172	163	-029

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1200	1332	157	151	174	019	1200	1423	189	189	224	382	1200	1514	190	190	761	001
1200	1333	161	151	174	019	1200	1424	193	193	224	382	1200	1515	176	176	285	871
1200	1334	162	157	174	019	1200	1425	194	194	212	694	1200	1516	178	178	141	082
1200	1335	164	228	259	259	1200	1426	206	206	210	122	1200	1517	171	171	123	020
1200	1336	130	185	851	851	1200	1427	374	374	252	188	1200	1518	166	166	139	982
1200	1337	129	184	843	843	1200	1428	401	401	401	570	1200	1519	215	215	467	467
1200	1338	140	229	709	709	1200	1429	229	229	344	548	1200	1520	192	192	396	107
1200	1339	114	176	736	736	1200	1430	191	191	185	390	1200	1521	177	177	159	341
1200	1340	119	178	636	636	1200	1431	227	227	206	262	1200	1522	166	166	103	950
1200	1341	140	204	610	610	1200	1432	211	211	253	291	1200	1523	179	179	109	031
1200	1342	105	262	498	498	1200	1433	230	230	180	261	1200	1524	179	179	101	254
1200	1344	118	216	659	659	1200	1434	190	190	244	619	1200	1525	209	209	528	346
1200	1345	115	243	653	653	1200	1435	140	140	247	844	1200	1526	190	190	412	282
1200	1346	114	282	565	565	1200	1436	117	117	151	689	1200	1527	180	180	213	205
1200	1347	114	282	565	565	1200	1437	159	159	261	136	1200	1528	164	164	106	092
1200	1348	117	295	546	546	1200	1438	192	192	258	734	1200	1529	164	164	099	042
1200	1349	103	331	399	399	1200	1439	184	184	355	664	1200	1530	175	175	144	303
1200	1350	112	331	399	399	1200	1440	144	144	245	631	1200	1531	251	251	650	425
1200	1351	125	356	482	482	1200	1441	143	143	271	573	1200	1532	238	238	599	462
1200	1352	110	302	564	564	1200	1442	155	155	296	706	1200	1533	227	227	498	346
1200	1353	115	282	644	644	1200	1443	198	198	280	744	1200	1534	193	193	413	293
1200	1354	104	316	416	416	1200	1444	191	191	293	606	1200	1535	186	186	087	109
1200	1355	105	290	455	455	1200	1445	128	128	345	588	1200	1536	184	184	103	105
1200	1356	127	376	574	574	1200	1446	128	128	304	520	1200	1537	261	261	752	810
1200	1357	129	437	419	419	1200	1447	131	131	287	550	1200	1538	263	263	894	386
1200	1358	133	397	495	495	1200	1448	138	138	277	731	1200	1539	274	274	630	650
1200	1359	111	375	462	462	1200	1449	144	144	324	735	1200	1540	246	246	328	703
1200	1360	111	364	482	482	1200	1450	117	117	386	398	1200	1541	200	200	102	286
1200	1401	154	410	918	918	1200	1451	119	119	424	416	1200	1542	196	196	122	185
1200	1402	150	401	823	823	1200	1452	119	119	454	382	1200	1543	198	198	040	678
1200	1403	168	378	929	929	1200	1453	134	134	470	474	1200	1544	201	201	912	739
1200	1404	158	379	821	821	1200	1454	136	136	435	619	1200	1545	320	320	507	165
1200	1405	145	327	838	838	1200	1455	101	101	396	323	1200	1546	320	320	456	845
1200	1406	138	342	799	799	1200	1456	131	131	461	498	1200	1547	301	301	174	092
1200	1407	200	322	093	093	1200	1457	126	126	516	497	1200	1548	242	242	108	474
1200	1408	154	411	020	020	1200	1458	126	126	419	486	1200	1549	138	138	316	718
1200	1409	164	333	552	552	1200	1459	128	128	468	502	1200	1550	129	129	249	678
1200	1410	139	344	752	752	1200	1501	164	164	613	953	1200	1551	126	126	228	333
1200	1411	146	289	933	933	1200	1502	161	161	626	947	1200	1552	122	122	252	585
1200	1412	151	191	594	594	1200	1503	211	211	103	239	1200	1553	127	127	284	845
1200	1413	157	397	154	154	1200	1504	222	222	267	313	1200	1554	162	162	411	841
1200	1414	171	422	059	059	1200	1505	235	235	303	492	1200	1555	158	158	391	921
1200	1415	161	252	995	995	1200	1506	197	197	827	037	1200	1556	144	144	283	918
1200	1416	156	266	916	916	1200	1507	179	179	811	729	1200	1557	152	152	272	903
1200	1417	157	270	222	222	1200	1508	166	166	500	890	1200	1558	172	172	345	973
1200	1418	172	316	259	259	1200	1509	195	195	350	110	1200	1559	176	176	465	114
1200	1419	194	285	090	090	1200	1510	183	183	193	999	1200	1560	133	133	339	550
1200	1420	181	157	119	119	1200	1511	188	188	136	255	1200	1561	135	135	319	622
1200	1421	172	169	022	022	1200	1512	185	185	131	189	1200	1562	131	131	486	822
1200	1422	182	226	315	315	1200	1513	205	205	956	950	1200	1601	194	194	581	105

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	1602	019	216	765	-1.122	120	1708	315	225	1.145	-306	120	1814	216	158	392	-697
120	1603	114	270	819	-1.072	120	1709	279	226	1.282	-442	120	1815	058	360	1.094	-1.234
120	1604	206	273	805	-1.076	120	1710	262	233	1.338	-443	120	1816	136	341	1.061	-1.971
120	1605	058	137	337	-1.681	120	1711	483	251	1.304	-272	120	1817	165	216	1.823	-1.051
120	1606	024	163	526	-1.823	120	1712	495	250	1.310	-264	120	1818	002	149	1.548	-1.537
120	1607	085	187	862	-1.625	120	1713	487	253	1.288	-278	120	1819	106	139	1.426	-1.649
120	1608	119	225	855	-1.787	120	1714	579	261	1.532	-192	120	1820	039	351	1.167	-1.087
120	1609	003	277	911	-1.881	120	1715	467	260	1.539	-194	120	1821	056	360	1.060	-1.139
120	1610	122	151	459	-1.718	120	1716	543	246	1.457	-148	120	1822	165	220	1.994	-1.428
120	1611	011	158	591	-1.542	120	1717	578	249	1.541	-217	120	1823	027	155	1.543	-1.625
120	1612	193	195	923	-1.411	120	1718	578	249	1.614	-144	120	1824	167	146	1.267	-1.761
120	1613	226	323	1.111	-1.155	120	1719	494	223	1.297	-212	120	1825	072	333	1.415	-1.441
120	1614	163	349	1.169	-1.036	120	1720	530	215	1.386	-136	120	1826	018	350	1.233	-1.506
120	1615	214	153	347	-1.751	120	1721	477	245	1.329	-326	120	1827	158	220	1.293	-1.015
120	1616	060	170	558	-1.714	120	1722	520	248	1.448	-114	120	1828	033	157	1.868	-1.680
120	1617	166	199	902	-1.644	120	1723	497	242	1.446	-184	120	1829	193	150	1.494	-1.712
120	1618	214	293	1.111	-1.999	120	1724	493	244	1.451	-240	120	1830	045	326	1.814	-1.181
120	1619	078	398	1.210	-1.329	120	1725	517	226	1.372	-96	120	1831	085	340	1.020	-1.253
120	1620	203	154	248	-1.771	120	1726	402	227	1.153	-219	120	1832	138	184	1.731	-1.455
120	1621	049	155	452	-1.553	120	1727	496	229	1.317	-115	120	1833	132	151	1.448	-1.694
120	1622	176	202	754	-1.659	120	1728	499	227	1.342	-697	120	1834	420	191	1.195	-1.148
120	1623	095	323	987	-1.138	120	1729	489	234	1.392	-157	120	1835	119	286	1.999	-1.110
120	1624	056	344	1.204	-1.158	120	1730	533	235	1.430	-235	120	1836	040	286	1.995	-1.355
120	1625	231	161	271	-1.773	120	1731	410	219	1.110	-195	120	1837	057	135	1.483	-1.678
120	1626	081	166	584	-1.615	120	1732	440	241	1.528	-129	120	1838	103	145	1.419	-1.760
120	1627	089	207	906	-1.998	120	1733	440	243	1.565	-139	120	1839	236	177	1.395	-1.900
120	1628	015	360	992	-1.111	120	1734	425	246	1.579	-165	120	1840	200	230	1.559	-1.296
120	1629	019	349	1.022	-1.193	120	1735	392	220	1.252	-218	120	1841	124	235	1.644	-1.004
120	1630	277	172	328	-1.916	120	1736	356	226	1.177	-378	120	1842	020	172	1.609	-1.963
120	1631	115	154	484	-1.982	120	1737	408	222	1.213	-253	120	1843	062	155	1.429	-1.729
120	1632	101	183	619	-1.140	120	1738	403	222	1.458	-225	120	1844	137	149	1.382	-1.711
120	1633	037	303	719	-1.425	120	1739	394	221	1.474	-238	120	1845	146	184	1.530	-1.927
120	1634	024	307	777	-1.176	120	1740	365	206	1.459	-398	120	1846	054	157	1.521	-1.618
120	1635	222	168	326	-1.839	120	1741	338	211	1.171	-337	120	1847	058	128	1.592	-1.460
120	1636	117	156	446	-1.783	120	1742	327	195	1.123	-271	120	1848	030	128	1.588	-1.413
120	1637	095	165	703	-1.724	120	1743	322	205	1.113	-279	120	1849	019	131	1.622	-1.425
120	1638	121	277	1.170	-1.933	120	1744	217	192	1.321	-350	120	1850	087	153	1.657	-1.386
120	1639	070	292	1.167	-1.914	120	1801	275	304	1.702	-1.340	120	1851	109	152	1.655	-1.394
120	1640	003	154	718	-1.545	120	1802	188	271	1.860	-1.127	120	1852	099	136	1.672	-1.338
120	1641	067	138	495	-1.389	120	1803	121	244	1.867	-1.183	120	1853	066	128	1.536	-1.355
120	1642	134	195	846	-1.432	120	1804	223	208	1.689	-1.059	120	1854	035	131	1.914	-1.443
120	1643	097	241	840	-1.099	120	1805	109	329	1.928	-1.737	120	1901	155	127	1.256	-1.594
120	1644	093	235	993	-1.039	120	1806	055	304	1.804	-1.441	120	1902	255	162	1.197	-1.894
120	1701	235	202	1.043	-1.394	120	1807	005	206	1.703	-1.462	120	1903	224	160	1.331	-1.921
120	1702	288	206	1.148	-1.272	120	1808	083	171	1.494	-892	120	1904	135	150	1.399	-1.814
120	1703	233	204	1.215	-1.373	120	1809	207	166	1.284	-893	120	1905	148	152	1.292	-1.778
120	1704	312	333	1.123	-1.334	120	1810	041	400	1.255	-1.479	120	1906	103	157	1.469	-1.776
120	1705	279	223	1.117	-1.328	120	1811	126	386	1.254	-1.416	120	1908	161	174	1.404	-1.912
120	1706	322	229	1.114	-1.325	120	1812	137	221	1.864	-1.441	120	1909	196	182	1.388	-1.228
120	1707	348	230	1.188	-1.297	120	1813	079	160	1.447	-1.557	120	1910	178	189	1.591	-1.308



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	1911	353	178	666	-1.169	120	2410	113	139	333	-867	120	2525	183	163	435	-762
120	1912	194	171	626	-1.161	120	2411	214	152	261	-813	120	2526	020	145	788	-481
120	1913	395	163	245	-985	120	2412	219	150	242	-772	120	2527	008	147	485	-501
120	1914	374	212	392	-1.516	120	2413	245	154	210	-745	120	2528	119	160	406	-690
120	1915	588	242	399	-1.812	120	2414	278	157	167	-1.019	120	2529	201	165	300	-1.424
120	1916	364	172	183	-1.061	120	2415	184	149	237	-825	120	2530	168	141	304	-837
120	1917	386	163	108	-968	120	2416	160	149	262	-723	120	2601	066	141	337	-613
120	1918	356	176	168	-863	120	2417	183	153	262	-822	120	2602	011	141	457	-504
120	1919	342	165	195	-907	120	2418	226	160	333	-892	120	2603	015	182	891	-673
120	1920	474	210	088	-1.414	120	2419	177	149	333	-864	120	2604	017	192	878	-766
120	1921	490	179	136	-1.313	120	2420	170	149	333	-863	120	2605	045	149	443	-541
120	1922	462	203	194	-1.302	120	2421	174	144	333	-793	120	2606	021	154	545	-636
120	1924	439	193	194	-1.240	120	2422	158	143	333	-781	120	2607	046	181	651	-1.223
120	1925	435	213	181	-1.337	120	2423	178	159	327	-968	120	2608	024	222	684	-1.102
120	1926	424	202	379	-1.157	120	2424	202	166	322	-980	120	2609	079	226	742	-1.158
120	1927	287	187	372	-947	120	2425	008	106	341	-472	120	2610	102	151	491	-572
120	1928	528	204	217	-1.360	120	2426	093	118	329	-564	120	2611	056	154	710	-691
120	1929	543	237	376	-1.057	120	2427	051	109	333	-487	120	2612	021	169	795	-822
120	1930	369	177	252	-1.054	120	2428	046	099	333	-372	120	2613	090	254	814	-1.346
120	2301	064	119	308	-508	120	2429	014	111	444	-440	120	2615	131	163	476	-721
120	2302	057	119	325	-504	120	2430	093	117	229	-692	120	2616	070	159	554	-732
120	2303	043	128	326	-549	120	2431	051	124	229	-682	120	2617	026	170	564	-1.016
120	2304	065	130	320	-603	120	2432	119	123	240	-697	120	2618	086	222	632	-992
120	2305	104	136	307	-639	120	2433	154	134	252	-724	120	2619	120	214	572	-1.134
120	2306	100	119	295	-544	120	2434	177	138	333	-931	120	2620	053	136	493	-512
120	2307	092	119	383	-510	120	2435	093	132	309	-771	120	2621	018	132	655	-432
120	2308	107	122	360	-541	120	2501	156	160	310	-856	120	2622	004	142	666	-635
120	2309	128	128	333	-549	120	2502	138	149	262	-749	120	2623	073	170	536	-777
120	2310	149	133	307	-616	120	2503	216	181	262	-972	120	2624	092	187	540	-857
120	2311	293	184	274	-949	120	2504	033	165	262	-654	120	2625	043	118	346	-437
120	2312	315	187	237	-952	120	2505	044	173	262	-654	120	2626	001	117	376	-414
120	2313	199	150	202	-846	120	2506	119	175	262	-760	120	2627	040	129	485	-497
120	2314	126	140	307	-756	120	2507	150	156	411	-697	120	2628	005	143	501	-788
120	2315	163	137	227	-594	120	2508	156	152	459	-659	120	2629	011	131	429	-718
120	2316	147	140	258	-690	120	2509	151	146	459	-665	120	2701	175	166	817	-371
120	2317	184	142	248	-706	120	2510	146	145	459	-666	120	2702	240	175	943	-366
120	2318	189	146	248	-742	120	2511	208	190	651	-739	120	2703	267	168	1.060	-226
120	2319	131	149	327	-672	120	2512	211	177	491	-717	120	2704	238	203	1.023	-312
120	2320	134	149	293	-710	120	2513	254	154	228	-763	120	2705	278	177	1.157	-247
120	2321	130	140	300	-660	120	2514	226	160	228	-854	120	2706	240	180	876	-244
120	2322	112	129	310	-525	120	2515	226	160	333	-873	120	2707	280	194	1.029	-230
120	2401	171	153	283	-764	120	2516	176	166	333	-735	120	2708	201	191	1.004	-377
120	2402	195	158	294	-865	120	2517	197	157	333	-765	120	2709	312	194	1.121	-178
120	2403	202	170	257	-1.045	120	2518	234	154	229	-855	120	2710	273	184	1.068	-311
120	2404	192	165	255	-965	120	2519	214	144	229	-755	120	2711	274	186	1.088	-517
120	2405	166	137	291	-700	120	2520	231	166	333	-820	120	2712	262	188	1.113	-385
120	2406	169	137	277	-705	120	2521	141	186	547	-1.083	120	2713	131	180	881	-445
120	2407	184	140	282	-768	120	2522	169	177	421	-998	120	2714	334	165	1.130	-197
120	2408	221	157	290	-905	120	2523	203	184	423	-929	120	2715	216	189	1.167	-371
120	2409	274	199	291	-1.267	120	2524	207	171	419	-809	120	2716	231	187	1.101	-336

APPENDIX A -- PRESSURE DATA

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1200	2904	137	143	310	681	1300	1120	347	151	128	807						
1200	2905	169	149	305	751	1300	1121	335	151	150	791						
1200	2906	103	146	357	638	1300	1122	325	160	173	1101						
1200	2907	242	157	258	769	1300	1123	335	170	293	1112						
1200	2908	213	149	278	754	1300	1124	372	187	255	413						
1200	2909	106	136	315	656	1300	1125	363	155	117	913						
1200	2910	153	150	412	684	1300	1126	346	152	127	864						
1200	2911	040	130	372	565	1300	1127	355	137	061	955						
1200	2912	113	167	614	724	1300	1128	362	140	034	920						
1200	2913	215	158	256	811	1300	1129	390	149	019	014						
1200	2914	135	175	540	832	1300	1130	379	156	104	095						
1200	2915	226	176	250	908	1300	1131	394	142	025	942						
1200	2916	027	156	579	585	1300	1132	373	143	066	099						
1200	2917	193	164	322	720	1300	1133	389	145	063	917						
1200	2918	243	175	345	102	1300	1134	416	152	128	029						
1200	2919	012	161	545	436	1300	1135	377	152	223	893						
1200	2920	182	245	170	093	1300	1136	349	149	244	115						
1200	2921	024	179	638	929	1300	1137	405	178	185	245						
1200	2922	245	183	087	733	1300	1138	415	180	168	101						
1200	2923	051	180	691	733	1300	1139	470	199	175	555						
1200	2924	104	181	776	733	1300	1140	444	206	188	282						
1200	2925	256	205	030	550	1300	1141	382	195	377	255						
1200	2926	247	187	006	228	1300	1142	386	207	406	241						
1200	2927	248	188	041	248	1300	1143	462	215	352	719						
1200	2928	260	189	109	250	1300	1144	486	225	318	114						
1200	2930	173	165	780	323	1300	1145	510	253	494	658						
1200	2931	257	141	998	115	1300	1146	445	265	410	435						
1200	2932	239	137	724	189	1300	1147	301	261	704	393						
1200	2933	227	159	983	216	1300	1148	246	260	666	897						
1200	2934	273	124	738	106	1300	1149	295	213	278	394						
1200	2935	129	115	942	254	1300	1150	333	230	227	020						
1300	1101	460	232	180	398	1300	1151	366	288	310	344						
1300	1102	385	196	186	057	1300	1152	181	232	023	487						
1300	1103	308	167	267	994	1300	1153	001	183	928	601						
1300	1104	264	169	329	186	1300	1154	012	188	934	099						
1300	1105	266	175	296	008	1300	1155	068	134	448	582						
1300	1106	306	163	257	891	1300	1156	117	150	316	626						
1300	1107	304	164	265	799	1300	1157	125	175	489	934						
1300	1108	329	170	264	962	1300	1158	052	169	749	479						
1300	1109	282	173	218	386	1300	1159	098	171	778	444						
1300	1110	276	167	293	953	1300	1160	071	150	645	450						
1300	1111	282	160	351	959	1300	1161	005	133	488	459						
1300	1112	300	186	333	268	1300	1162	062	152	545	806						
1300	1113	269	136	172	188	1300	1163	006	115	404	421						
1300	1114	291	140	183	888	1300	1164	162	159	685	328						
1300	1115	309	141	134	034	1300	1165	041	127	604	355						
1300	1116	271	137	195	888	1300	1166	158	158	698	322						
1300	1117	293	139	191	960	1300	1201	207	144	210	820						
1300	1118	301	173	185	212	1300	1202	186	141	240	749						
1300	1119	312	147	180	966	1300	1203	185	141	303	810						

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	1204	185	142	312	790	130	1254	054	135	415	530	130	1346	052	122	360	521
130	1205	246	154	365	231	130	1255	026	121	381	462	130	1347	099	112	267	534
130	1206	235	149	353	305	130	1256	021	119	371	445	130	1348	144	123	359	572
130	1207	194	157	245	756	130	1257	038	123	418	478	130	1349	128	117	316	552
130	1208	191	144	394	768	130	1258	050	131	393	458	130	1350	028	109	390	433
130	1209	203	149	365	823	130	1259	031	124	421	480	130	1351	101	129	396	549
130	1210	232	139	302	757	130	1301	187	148	272	782	130	1352	108	119	316	511
130	1211	201	132	306	678	130	1302	192	149	295	871	130	1353	124	116	230	573
130	1212	203	128	318	627	130	1303	193	148	310	796	130	1354	026	105	309	427
130	1213	219	138	228	704	130	1304	181	136	305	756	130	1355	065	110	286	475
130	1214	227	144	231	804	130	1305	177	127	187	725	130	1356	053	127	420	508
130	1215	300	157	212	947	130	1306	168	132	322	656	130	1357	050	133	425	499
130	1216	291	104	026	706	130	1307	166	132	302	615	130	1358	086	140	325	665
130	1217	266	150	209	782	130	1308	158	132	319	627	130	1359	084	138	535	678
130	1218	303	160	228	970	130	1309	161	126	288	621	130	1360	084	137	543	581
130	1219	295	162	214	980	130	1310	178	130	318	725	130	1401	171	135	267	747
130	1220	347	159	108	015	130	1311	203	124	224	710	130	1402	173	137	293	739
130	1221	343	156	094	991	130	1312	180	121	267	581	130	1403	195	148	344	865
130	1222	356	157	113	957	130	1313	192	123	252	614	130	1404	223	152	312	009
130	1223	356	164	179	973	130	1314	220	140	229	786	130	1405	191	149	284	932
130	1224	356	161	194	114	130	1315	192	130	195	837	130	1406	191	147	272	780
130	1225	366	144	054	083	130	1316	239	124	156	859	130	1407	198	156	274	088
130	1226	366	144	054	083	130	1317	236	124	144	735	130	1408	222	162	273	137
130	1227	391	146	025	992	130	1318	265	128	126	743	130	1409	234	163	315	913
130	1228	394	142	092	945	130	1319	245	127	156	736	130	1410	205	144	284	919
130	1229	413	184	106	164	130	1320	248	131	148	728	130	1411	192	140	366	802
130	1230	478	187	049	263	130	1321	277	142	221	801	130	1412	152	121	322	662
130	1231	427	197	087	581	130	1322	295	144	216	790	130	1413	258	180	442	293
130	1232	406	178	121	052	130	1323	279	144	194	762	130	1414	278	185	489	989
130	1233	358	181	121	778	130	1324	270	148	201	937	130	1415	258	148	211	043
130	1234	364	190	240	262	130	1325	285	151	157	027	130	1416	251	145	211	999
130	1235	415	231	240	744	130	1326	337	144	223	902	130	1417	250	147	250	820
130	1236	405	224	263	784	130	1327	302	141	260	866	130	1418	290	170	224	425
130	1237	405	184	154	511	130	1328	290	141	147	803	130	1419	306	173	341	134
130	1238	266	169	248	068	130	1329	280	143	209	847	130	1420	317	178	190	146
130	1239	239	177	281	124	130	1330	285	161	186	112	130	1421	316	170	215	090
130	1240	238	217	434	578	130	1331	304	155	209	871	130	1422	295	167	243	076
130	1241	224	203	463	476	130	1332	272	149	185	858	130	1423	307	172	224	154
130	1242	157	169	414	459	130	1333	253	148	185	879	130	1424	316	177	296	140
130	1243	142	160	347	798	130	1334	243	148	211	837	130	1425	333	198	199	374
130	1244	125	145	417	824	130	1335	254	148	151	778	130	1426	351	217	210	820
130	1245	100	144	374	829	130	1336	268	122	145	742	130	1427	347	212	233	321
130	1246	142	171	330	367	130	1337	245	119	167	791	130	1428	352	215	262	362
130	1247	072	132	360	635	130	1338	135	105	224	632	130	1429	370	216	241	313
130	1248	052	124	372	485	130	1339	187	105	157	623	130	1430	378	183	297	286
130	1249	082	147	377	664	130	1340	225	123	170	703	130	1431	373	177	281	072
130	1250	063	138	409	694	130	1341	209	139	290	943	130	1432	372	177	252	973
130	1251	049	136	418	583	130	1342	096	122	332	723	130	1433	288	183	292	136
130	1252	046	127	395	492	130	1343	167	110	225	564	130	1434	295	196	247	572
130	1253	038	127	552	440	130	1345	150	108	356	545	130	1435	234	164	209	179

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	1436	.270	.154	.123	-.991	130	1527	-.303	.246	.517	-1.105	130	1615	-.128	.171	.654	-.678
130	1437	-.272	.170	.207	-1.428	130	1528	-.368	.204	.531	-1.177	130	1616	.046	.189	.917	-.591
130	1438	-.268	.168	.267	-1.124	130	1529	-.366	.173	.207	-1.068	130	1617	.297	.222	1.212	-.395
130	1439	-.285	.177	.313	-1.128	130	1530	-.356	.170	.149	-.923	130	1618	.402	.258	1.315	-.653
130	1440	-.158	.126	.293	-1.728	130	1531	-.123	.271	.771	-1.222	130	1619	.386	.305	1.329	-.927
130	1441	-.183	.136	.298	-.640	130	1532	-.142	.273	.857	-1.094	130	1620	-.116	.172	.592	-.703
130	1442	-.239	.161	.282	-1.002	130	1533	-.243	.270	.610	-1.344	130	1621	.055	.183	.723	-.597
130	1443	.386	.258	.270	-1.783	130	1534	-.365	.229	.668	-1.276	130	1622	.273	.213	1.111	-.410
130	1444	.403	.272	.289	-1.903	130	1535	-.399	.203	.269	-1.136	130	1623	.359	.289	1.246	-.687
130	1445	.082	.126	.386	-.516	130	1536	-.385	.201	.308	-1.081	130	1624	.392	.308	1.290	-.822
130	1446	.068	.117	.297	-.557	130	1537	-.105	.243	.678	-1.526	130	1625	-.145	.187	.563	-.776
130	1447	.071	.120	.334	-.557	130	1538	-.093	.271	.755	-1.242	130	1626	.014	.178	.725	-.573
130	1448	.092	.122	.356	-.554	130	1539	-.212	.280	.542	-1.259	130	1627	.241	.193	1.064	-.327
130	1449	.081	.127	.383	-.558	130	1540	-.394	.256	.376	-1.448	130	1628	.301	.258	1.290	-.874
130	1450	.023	.120	.309	-.412	130	1541	-.397	.207	.202	-1.303	130	1629	.288	.277	1.433	-.784
130	1451	.022	.121	.338	-.423	130	1542	-.368	.200	.207	-1.259	130	1630	-.160	.175	.578	-.837
130	1452	.028	.119	.390	-.341	130	1543	.017	.189	.658	-.833	130	1631	.009	.166	.718	-.608
130	1453	.047	.125	.537	-.339	130	1544	-.025	.197	.769	-.830	130	1632	.221	.191	1.288	-.488
130	1454	.048	.127	.514	-.384	130	1545	-.073	.205	.589	-1.226	130	1633	.259	.239	1.099	-.784
130	1455	.014	.105	.551	-.402	130	1546	-.316	.290	.470	-1.599	130	1634	.225	.262	1.072	-.647
130	1456	.014	.135	.462	-.445	130	1547	-.390	.260	.299	-1.533	130	1635	.126	.193	.584	-.771
130	1457	.044	.122	.447	-.430	130	1548	-.349	.225	.290	-1.290	130	1636	.025	.180	.842	-.696
130	1458	.046	.124	.484	-.438	130	1549	-.121	.152	.424	-.678	130	1637	.171	.179	1.130	-.516
130	1459	.025	.125	.463	-.469	130	1550	-.101	.153	.480	-.669	130	1638	.219	.221	.979	-.599
130	1501	.200	.148	.251	-.824	130	1551	-.133	.140	.362	-.567	130	1639	.191	.241	.954	-.746
130	1502	.199	.160	.355	-.820	130	1552	-.105	.134	.389	-.680	130	1640	.041	.151	.598	-.406
130	1503	.295	.204	.366	-.828	130	1553	-.108	.137	.361	-.590	130	1641	.161	.193	1.050	-.458
130	1504	.517	.249	.241	-.433	130	1554	-.109	.146	.460	-.664	130	1642	.173	.184	1.029	-.427
130	1505	.587	.251	.253	-.563	130	1555	-.096	.139	.339	-.685	130	1643	.163	.236	1.049	-.059
130	1506	.051	.215	.820	-.926	130	1556	-.151	.142	.283	-.764	130	1644	.172	.241	1.191	-.806
130	1507	.064	.217	.795	-.875	130	1557	-.227	.155	.255	-.917	130	1701	.231	.210	1.178	-.416
130	1508	.136	.184	.663	-.866	130	1558	-.084	.152	.615	-.697	130	1702	.227	.201	.965	-.432
130	1509	.354	.206	.372	-1.271	130	1559	-.074	.155	.531	-.696	130	1703	.071	.170	.690	-.439
130	1510	.424	.213	.240	-1.231	130	1560	-.061	.131	.365	-.469	130	1704	.318	.230	1.080	-.355
130	1511	.402	.210	.193	-1.449	130	1561	-.034	.129	.356	-.511	130	1705	.294	.244	1.301	-.474
130	1512	.390	.206	.194	-1.394	130	1562	-.058	.128	.507	-.442	130	1706	.341	.228	1.126	-.288
130	1513	.134	.256	.016	-1.321	130	1601	.022	.195	.802	-.697	130	1707	.352	.223	1.182	-.278
130	1514	.141	.239	.791	-1.043	130	1602	.134	.217	.971	-.661	130	1708	.298	.219	1.110	-.343
130	1515	.270	.214	.449	-1.189	130	1603	.147	.276	1.200	-.716	130	1709	.305	.230	1.114	-.328
130	1516	.416	.195	.110	-1.237	130	1604	.043	.309	1.168	-1.181	130	1710	.257	.223	1.110	-.342
130	1517	.366	.180	.176	-1.151	130	1605	.077	.170	.607	-.599	130	1711	.483	.282	1.343	-.533
130	1518	.319	.171	.216	-.997	130	1606	.060	.182	.514	-.487	130	1712	.491	.286	1.339	-.519
130	1519	.241	.252	.861	-1.243	130	1607	.172	.189	.972	-.446	130	1713	.502	.284	1.578	-.541
130	1520	.266	.230	.676	-1.024	130	1608	.175	.206	.963	-.410	130	1714	.543	.264	1.416	-.265
130	1521	.327	.209	.439	-1.297	130	1609	.202	.236	1.034	-.770	130	1715	.463	.246	1.558	-.372
130	1522	.378	.171	.301	-1.049	130	1610	.019	.177	.687	-.610	130	1716	.512	.254	1.368	-.143
130	1523	.376	.162	.149	-1.032	130	1611	.119	.193	.953	-.476	130	1717	.535	.255	1.367	-.181
130	1524	.395	.176	.143	-1.288	130	1612	.331	.221	1.273	-.339	130	1718	.509	.248	1.319	-.371
130	1525	.217	.229	.536	-1.034	130	1613	.437	.270	1.360	-.737	130	1719	.499	.225	1.333	-.252
130	1526	.218	.256	.590	-1.044	130	1614	.436	.307	1.442	-.738	130	1720	.407	.234	1.155	-.246

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	1721	544	250	1.420	-1.132	130	1827	186	350	547	-1.575	130	1925	358	226	575	-1.145
130	1722	552	246	1.432	-1.056	130	1828	204	186	243	-1.563	130	1926	381	213	270	-1.160
130	1723	501	244	1.244	-1.134	130	1829	315	160	099	-1.348	130	1927	392	176	232	-1.024
130	1724	487	241	1.257	-1.123	130	1830	429	338	686	-1.916	130	1928	494	209	160	-1.352
130	1725	328	185	1.940	-2.336	130	1831	429	338	686	-1.916	130	1929	455	234	325	-1.125
130	1726	400	214	1.465	-2.333	130	1832	260	295	621	-1.482	130	1930	310	171	508	-1.968
130	1727	480	244	1.423	-2.450	130	1833	260	169	305	-1.255	130	23301	077	127	337	-1.537
130	1728	470	230	1.303	-1.155	130	1834	413	174	215	-1.356	130	23302	072	125	339	-1.516
130	1729	468	230	1.292	-1.159	130	1835	320	305	750	-1.682	130	23303	054	133	395	-1.491
130	1730	467	217	1.177	-1.380	130	1836	345	343	917	-1.804	130	23304	067	138	363	-1.501
130	1731	340	215	1.214	-1.368	130	1837	148	238	369	-1.124	130	23305	096	151	338	-1.647
130	1732	384	235	1.578	-1.329	130	1838	212	188	344	-1.569	130	23306	080	132	364	-1.576
130	1733	379	221	1.610	-1.304	130	1839	299	172	163	-1.421	130	23307	074	126	324	-1.564
130	1734	361	220	1.643	-1.253	130	1840	302	237	494	-1.980	130	23308	073	128	385	-1.541
130	1735	281	212	1.940	-2.280	130	1841	269	254	482	-1.644	130	23309	096	137	369	-1.599
130	1736	286	196	1.035	-1.357	130	1842	098	241	471	-1.460	130	23310	117	143	359	-1.691
130	1737	326	196	1.126	-1.280	130	1843	141	193	360	-1.194	130	23311	208	172	427	-1.930
130	1738	322	210	1.137	-1.235	130	1844	183	175	319	-1.038	130	23312	232	177	372	-1.960
130	1739	319	208	1.131	-1.409	130	1845	182	205	332	-1.288	130	23313	232	166	282	-1.946
130	1740	262	194	1.046	-1.509	130	1846	048	158	399	-1.875	130	23314	131	151	345	-1.893
130	1741	270	220	1.413	-1.465	130	1847	012	127	441	-1.579	130	23315	102	131	339	-1.984
130	1742	269	207	1.294	-1.364	130	1848	007	121	472	-1.615	130	23316	105	124	338	-1.929
130	1743	261	184	1.134	-1.198	130	1849	029	122	457	-1.646	130	23317	138	126	316	-1.540
130	1744	161	190	1.084	-1.504	130	1850	065	158	609	-1.423	130	23318	125	129	331	-1.530
130	1801	471	257	1.477	-1.519	130	1851	074	148	624	-1.369	130	23319	088	140	366	-1.582
130	1802	357	236	1.485	-1.404	130	1852	091	138	538	-1.352	130	23320	096	140	289	-1.661
130	1803	315	244	1.581	-1.415	130	1853	064	135	533	-1.430	130	23321	094	130	287	-1.593
130	1804	317	227	1.480	-1.376	130	1854	048	135	504	-1.455	130	23322	077	130	284	-1.545
130	1805	372	303	1.652	-2.045	130	1901	220	135	157	-1.788	130	2401	157	178	416	-1.048
130	1806	322	317	1.617	-1.870	130	1902	232	151	200	-1.868	130	2402	172	166	420	-1.872
130	1807	161	264	1.555	-1.476	130	1903	206	151	271	-1.954	130	2403	164	171	418	-1.815
130	1808	135	181	1.405	-1.064	130	1904	217	156	452	-1.130	130	2404	177	168	401	-1.828
130	1809	193	156	1.359	-1.287	130	1905	197	147	268	-1.818	130	2405	161	164	295	-1.835
130	1810	340	390	1.173	-1.794	130	1906	178	155	352	-1.989	130	2406	174	168	280	-1.030
130	1811	287	447	1.117	-1.028	130	1907	227	177	464	-1.901	130	2407	196	172	293	-1.058
130	1812	027	257	1.623	-1.399	130	1908	227	172	466	-1.023	130	2408	244	182	274	-1.052
130	1813	123	146	1.436	-1.710	130	1909	239	190	458	-1.213	130	2409	280	186	220	-1.464
130	1814	218	137	1.253	-1.780	130	1910	306	190	458	-1.213	130	2410	116	149	337	-1.943
130	1815	330	361	1.677	-1.851	130	1911	209	270	215	-1.204	130	2411	156	153	230	-1.768
130	1816	255	362	1.657	-1.512	130	1912	267	148	229	-1.121	130	2412	163	151	221	-1.717
130	1817	094	288	1.553	-1.516	130	1913	340	178	360	-1.147	130	2413	201	144	285	-1.701
130	1818	122	150	1.370	-1.075	130	1914	458	217	091	-1.337	130	2414	258	158	277	-1.839
130	1819	202	145	1.302	-1.212	130	1915	478	236	162	-1.528	130	2415	113	128	335	-1.565
130	1820	390	299	1.505	-1.413	130	1916	309	151	152	-1.046	130	2416	117	132	328	-1.603
130	1821	406	320	1.513	-1.364	130	1917	351	167	236	-1.048	130	2417	142	131	262	-1.606
130	1822	151	301	1.524	-1.588	130	1918	392	166	164	-1.762	130	2418	185	136	289	-1.612
130	1823	156	170	1.321	-1.123	130	1919	299	146	162	-1.762	130	2419	194	165	280	-1.736
130	1824	247	154	1.215	-1.223	130	1920	428	208	317	-1.260	130	2420	130	145	265	-1.618
130	1825	408	312	1.614	-1.678	130	1921	398	165	174	-1.362	130	2421	131	138	250	-1.618
130	1826	347	356	1.654	-1.692	130	1922	434	198	202	-1.362	130	2422	131	134	284	-1.603
130						130	1924	391	180	279	-1.118	130					



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	2423	.159	.151	.271	-.688	130	2608	.101	.241	1.017	-.866	130	2730	.097	.127	.479	-.370
130	2424	-.184	.158	.252	-.851	130	2609	-.028	.237	.889	-.1044	130	2731	.131	.133	.612	-.448
130	2425	.035	.107	.377	-.312	130	2610	-.006	.147	.469	-.519	130	2732	.158	.142	.685	-.399
130	2426	-.050	.107	.258	-.473	130	2611	.050	.177	.651	-.609	130	2733	.159	.141	.782	-.273
130	2427	-.011	.098	.295	-.411	130	2612	.103	.188	.952	-.582	130	2734	.164	.139	.651	-.254
130	2428	.091	.105	.467	-.270	130	2613	.059	.249	1.062	-.1092	130	2735	.181	.148	.939	-.240
130	2429	.040	.105	.364	-.342	130	2615	-.027	.173	.607	-.755	130	2736	.132	.141	.902	-.278
130	2430	-.022	.107	.298	-.434	130	2616	.005	.144	.751	-.516	130	2737	.072	.150	.728	-.599
130	2431	.025	.112	.373	-.448	130	2617	.075	.157	.766	-.440	130	2738	.073	.143	.597	-.415
130	2432	-.041	.113	.312	-.513	130	2618	.033	.203	.852	-.684	130	2739	.049	.131	.484	-.459
130	2433	.132	.122	.284	-.564	130	2619	.008	.206	.841	-.764	130	2801	.179	.193	1.036	-.597
130	2434	.155	.123	.284	-.632	130	2620	.001	.144	.493	-.501	130	2802	.166	.205	.890	-.481
130	2435	-.067	.114	.342	-.460	130	2621	.036	.127	.503	-.371	130	2803	.263	.194	1.106	-.508
130	2501	.106	.166	.458	-.703	130	2622	.062	.134	.576	-.508	130	2804	.291	.193	1.137	-.329
130	2502	.068	.161	.465	-.787	130	2623	.027	.162	.552	-.736	130	2805	.059	.249	.889	-.101
130	2503	.140	.180	.449	-.913	130	2624	.023	.204	.604	-.734	130	2806	.131	.219	.826	-.099
130	2504	.031	.172	.718	-.715	130	2625	.031	.153	.711	-.425	130	2807	.068	.225	.737	-.019
130	2505	.040	.180	.640	-.654	130	2626	.072	.153	.773	-.348	130	2808	.062	.204	.795	-.927
130	2506	.043	.178	.611	-.655	130	2627	.115	.163	.912	-.476	130	2809	.079	.197	.859	-.820
130	2507	.108	.183	.510	-.773	130	2628	.091	.177	.758	-.549	130	2810	.028	.217	1.052	-.723
130	2508	.128	.177	.423	-.712	130	2629	.074	.157	.650	-.562	130	2811	.053	.214	.979	-.746
130	2509	.122	.168	.430	-.771	130	2701	.185	.171	.853	-.366	130	2812	.058	.166	.581	-.701
130	2510	.123	.168	.416	-.820	130	2702	.214	.166	.909	-.369	130	2813	.047	.150	.563	-.473
130	2511	.062	.168	.556	-.826	130	2703	.224	.165	1.126	-.297	130	2814	.035	.153	.570	-.461
130	2512	.072	.160	.466	-.716	130	2704	.211	.188	1.067	-.413	130	2815	.016	.163	.556	-.655
130	2513	.099	.138	.554	-.559	130	2705	.226	.169	1.033	-.286	130	2816	.012	.165	.526	-.699
130	2514	.122	.149	.389	-.800	130	2706	.191	.161	.838	-.322	130	2817	.030	.148	.475	-.693
130	2515	.123	.151	.384	-.787	130	2707	.224	.167	.851	-.346	130	2818	.050	.129	.482	-.545
130	2516	.095	.159	.475	-.658	130	2708	.198	.187	.961	-.302	130	2819	.076	.145	.538	-.440
130	2517	.131	.155	.394	-.772	130	2709	.242	.160	.957	-.250	130	2820	.011	.151	.538	-.494
130	2518	.164	.147	.306	-.624	130	2710	.239	.165	.938	-.471	130	2821	.013	.155	.517	-.484
130	2519	.156	.138	.258	-.588	130	2711	.245	.167	.917	-.493	130	2822	.060	.169	.669	-.472
130	2520	.128	.136	.322	-.539	130	2712	.219	.166	.926	-.460	130	2823	.106	.165	.616	-.440
130	2521	.078	.167	.498	-.693	130	2713	.128	.167	1.131	-.357	130	2824	.100	.171	.637	-.580
130	2522	.097	.168	.470	-.700	130	2714	.238	.151	.885	-.440	130	2901	-.109	.168	.373	-.1003
130	2523	.129	.178	.411	-.553	130	2715	.207	.177	1.033	-.292	130	2902	-.217	.188	.217	-.1017
130	2524	.141	.167	.385	-.0855	130	2716	.220	.177	1.099	-.271	130	2903	-.112	.149	.391	-.842
130	2525	.113	.160	.394	-.802	130	2717	.226	.194	1.129	-.284	130	2904	-.110	.137	.390	-.518
130	2526	.037	.148	.675	-.498	130	2718	.118	.162	.840	-.430	130	2905	-.146	.143	.360	-.672
130	2527	.051	.151	.552	-.473	130	2719	.121	.140	.901	-.298	130	2906	-.074	.146	.505	-.595
130	2528	.038	.169	.475	-.823	130	2720	.144	.153	.995	-.413	130	2907	-.227	.139	.300	-.724
130	2529	.118	.169	.374	-.247	130	2721	.155	.170	.893	-.437	130	2908	-.198	.153	.291	-.823
130	2530	.097	.154	.360	-.1039	130	2722	.143	.172	.835	-.390	130	2909	-.113	.147	.333	-.718
130	2601	.047	.181	.671	-.566	130	2723	.156	.175	.912	-.445	130	2910	-.167	.176	.345	-.921
130	2602	.103	.190	.829	-.503	130	2724	.151	.167	.740	-.346	130	2911	-.045	.127	.355	-.518
130	2603	.101	.208	1.001	-.590	130	2725	.083	.132	.590	-.582	130	2912	-.120	.170	.600	-.829
130	2604	.090	.220	.960	-.618	130	2726	.090	.137	.671	-.368	130	2913	-.190	.162	.335	-.885
130	2605	.033	.172	.617	-.540	130	2727	.112	.134	.698	-.347	130	2914	-.019	.184	.903	-.756
130	2606	.104	.176	.801	-.623	130	2728	.128	.129	.519	-.349	130	2915	-.170	.209	.516	-.1042
130	2607	.136	.198	.978	-.756	130	2729	.126	.132	.636	-.342	130	2916	.039	.166	.580	-.708

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	2917	114	169	723	748	140	1133	333	146	127	-1 125	140	1217	222	122	178	-710
130	2918	157	180	388	-1 114	140	1134	346	145	086	-1 029	140	1218	244	128	188	-863
130	2919	047	151	756	-1 569	140	1135	319	142	114	-1 907	140	1219	232	129	171	-876
130	2920	185	226	986	-1 748	140	1136	342	160	132	-1 183	140	1220	280	149	198	-1 095
130	2921	056	176	636	-1 608	140	1137	360	167	219	-1 270	140	1221	280	149	181	-1 603
130	2922	145	194	973	-1 765	140	1138	357	159	121	-1 209	140	1222	293	144	173	-970
130	2923	034	197	673	-1 755	140	1139	391	162	127	-1 260	140	1223	273	148	235	-1 051
130	2924	004	215	738	-1 712	140	1140	372	161	093	-1 141	140	1224	271	146	202	-1 108
130	2925	182	187	1017	-1 657	140	1141	331	174	180	-1 061	140	1225	341	158	161	-1 022
130	2926	220	176	132	-1 286	140	1142	342	185	218	-1 128	140	1226	351	159	158	-1 260
130	2927	217	176	077	-1 271	140	1143	489	242	327	-2 240	140	1227	316	152	180	-1 769
130	2928	234	180	252	-1 265	140	1144	488	228	125	-1 578	140	1228	314	158	220	-999
130	2929	107	171	950	-1 417	140	1145	514	255	420	-1 668	140	1229	323	165	254	-1 110
130	2930	104	129	808	-1 359	140	1146	482	260	428	-1 481	140	1230	333	179	097	-1 208
130	2931	058	131	503	-1 558	140	1147	391	232	524	-1 377	140	1231	339	172	115	-1 520
130	2932	018	138	588	-1 435	140	1148	314	210	711	-1 127	140	1232	332	167	235	-1 187
130	2933	058	138	564	-1 549	140	1149	418	234	244	-1 986	140	1233	333	179	179	-1 257
130	2934	058	115	460	-1 720	140	1150	432	241	335	-2 076	140	1234	331	185	203	-1 219
140	1161	378	196	322	-1 273	140	1151	445	263	672	-1 907	140	1235	322	164	150	-1 438
140	1110	349	182	300	-1 101	140	1152	301	248	410	-2 265	140	1236	330	211	164	-1 598
140	1110	333	162	334	-1 903	140	1153	110	200	887	-1 995	140	1237	348	190	203	-1 589
140	1110	444	164	443	-1 976	140	1154	075	215	920	-1 272	140	1238	338	196	247	-1 224
140	1110	554	173	461	-1 108	140	1155	137	155	347	-1 849	140	1239	333	180	252	-1 365
140	1110	666	161	209	-1 976	140	1156	224	169	258	-1 283	140	1240	360	222	342	-1 539
140	1110	777	160	184	-1 934	140	1157	184	175	557	-1 260	140	1241	337	201	244	-1 241
140	1110	888	145	223	-1 772	140	1158	033	167	604	-1 950	140	1242	380	180	283	-1 999
140	1110	999	148	386	-1 973	140	1159	033	166	731	-1 812	140	1243	365	154	466	-1 759
140	1110	110	154	404	-1 776	140	1160	013	164	586	-1 658	140	1244	371	160	382	-1 808
140	1111	203	161	432	-1 778	140	1161	025	147	699	-1 438	140	1245	366	182	398	-1 579
140	1112	182	182	400	-1 055	140	1162	019	154	674	-1 587	140	1246	333	163	491	-1 945
140	1113	141	141	273	-1 786	140	1163	010	128	590	-1 441	140	1247	333	152	416	-1 766
140	1114	127	127	339	-1 621	140	1164	116	147	784	-1 338	140	1248	371	142	437	-1 575
140	1115	144	144	187	-1 864	140	1165	036	127	452	-1 367	140	1249	390	141	450	-1 663
140	1116	134	134	344	-1 619	140	1166	123	145	835	-1 327	140	1250	390	130	402	-1 564
140	1117	142	142	312	-1 706	140	1201	144	146	355	-1 929	140	1251	385	134	402	-1 021
140	1118	163	163	223	-1 174	140	1202	099	139	365	-1 732	140	1252	385	148	364	-1 772
140	1119	154	154	223	-1 926	140	1203	114	138	321	-1 718	140	1253	379	156	425	-1 882
140	1120	154	154	179	-1 014	140	1204	109	145	435	-1 624	140	1254	380	154	492	-1 789
140	1121	152	152	177	-1 108	140	1205	253	158	266	-1 906	140	1255	355	144	400	-1 551
140	1122	145	145	173	-1 148	140	1206	106	137	376	-1 630	140	1256	352	141	366	-1 543
140	1123	148	148	128	-1 216	140	1207	083	122	362	-1 587	140	1257	383	131	363	-1 576
140	1124	158	158	134	-1 571	140	1208	218	143	291	-1 835	140	1258	391	138	332	-1 607
140	1125	150	150	121	-1 096	140	1209	114	130	342	-1 687	140	1259	373	131	387	-1 602
140	1126	144	144	218	-1 987	140	1210	150	141	246	-1 702	140	1301	393	151	341	-1 847
140	1127	145	145	116	-1 139	140	1211	107	134	285	-1 628	140	1302	393	147	272	-1 830
140	1128	146	146	164	-1 965	140	1212	126	135	277	-1 660	140	1303	366	148	310	-1 854
140	1129	152	152	166	-1 102	140	1213	124	140	387	-1 666	140	1304	399	134	313	-1 833
140	1130	156	156	194	-1 117	140	1214	127	141	394	-1 723	140	1305	399	125	300	-1 543
140	1131	171	171	173	-1 402	140	1215	256	136	152	-1 894	140	1306	387	128	336	-1 518
140	1132	149	149	185	-1 195	140	1216	287	113	035	-1 630	140	1307	382	128	338	-1 493



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	13088	047	126	361	430	140	1359	143	137	333	693	140	1449	133	168	413	465
140	1309	063	121	378	571	140	1360	139	135	321	643	140	1450	032	127	365	434
140	1310	105	127	349	660	140	1401	105	133	342	708	140	1451	023	129	381	413
140	1311	140	127	305	720	140	1402	104	135	369	940	140	1452	042	129	520	350
140	1312	096	121	310	651	140	1403	092	144	481	835	140	1453	039	127	673	407
140	1313	126	123	292	593	140	1404	179	161	449	928	140	1454	059	132	644	412
140	1314	116	124	221	613	140	1405	120	151	378	840	140	1455	027	098	305	360
140	1315	117	126	350	576	140	1406	113	147	398	909	140	1456	013	115	455	395
140	1316	239	143	189	770	140	1407	091	146	423	983	140	1457	060	115	466	350
140	1317	233	142	232	777	140	1408	133	152	417	928	140	1458	068	115	492	357
140	1318	233	145	234	813	140	1409	147	145	305	798	140	1459	047	115	515	406
140	1319	228	144	238	802	140	1410	133	142	279	776	140	1501	083	150	362	740
140	1320	266	146	226	798	140	1411	096	135	311	691	140	1502	044	167	484	792
140	1321	253	139	187	819	140	1412	161	107	215	743	140	1503	168	186	528	1137
140	1322	253	139	181	807	140	1413	224	171	279	955	140	1504	222	265	459	323
140	1323	233	139	218	741	140	1414	235	174	333	049	140	1505	381	288	400	504
140	1324	247	144	170	829	140	1415	278	158	245	929	140	1506	161	167	167	056
140	1325	301	156	179	116	140	1416	272	156	258	812	140	1507	178	255	393	773
140	1326	295	152	164	839	140	1417	265	158	286	942	140	1508	114	211	834	643
140	1327	266	150	197	779	140	1418	277	166	261	280	140	1509	030	209	789	875
140	1328	265	149	235	953	140	1419	299	177	183	465	140	1510	237	222	422	1107
140	1329	265	150	292	011	140	1420	342	196	200	719	140	1511	220	220	590	071
140	1330	265	162	238	188	140	1421	330	183	199	293	140	1512	213	219	639	928
140	1331	330	153	231	946	140	1422	340	180	148	099	140	1513	147	229	036	811
140	1332	330	161	202	898	140	1423	347	185	196	511	140	1514	217	225	325	584
140	1333	281	159	210	859	140	1424	353	185	168	346	140	1515	053	234	972	706
140	1334	266	159	259	825	140	1425	357	221	247	526	140	1516	112	200	757	724
140	1335	244	148	223	857	140	1426	348	210	354	461	140	1517	195	194	540	849
140	1336	398	175	115	185	140	1427	336	202	304	237	140	1518	181	203	581	878
140	1337	371	172	086	148	140	1428	340	205	296	567	140	1519	036	292	932	112
140	1338	227	143	194	959	140	1429	341	203	307	404	140	1520	013	301	896	209
140	1339	267	139	168	860	140	1430	309	197	223	571	140	1521	063	281	748	362
140	1340	314	142	089	087	140	1431	301	182	224	126	140	1522	226	265	616	303
140	1341	355	193	171	534	140	1432	291	172	368	025	140	1523	264	240	597	604
140	1342	205	157	231	011	140	1433	282	168	385	047	140	1524	307	283	574	836
140	1343	279	129	121	724	140	1434	284	164	198	396	140	1525	016	264	904	951
140	1344	266	128	168	701	140	1435	334	176	209	186	140	1526	026	263	167	812
140	1345	145	174	404	009	140	1436	356	164	119	154	140	1527	072	270	897	052
140	1346	193	139	313	645	140	1437	362	168	111	210	140	1528	231	240	632	012
140	1347	245	135	182	784	140	1438	336	163	125	048	140	1529	241	188	312	792
140	1348	216	126	198	709	140	1439	298	151	171	230	140	1530	209	203	376	856
140	1349	097	117	266	525	140	1440	223	173	201	335	140	1531	042	203	856	111
140	1350	140	154	377	781	140	1441	227	148	273	765	140	1532	058	243	897	055
140	1351	148	134	284	571	140	1442	316	195	259	254	140	1533	036	257	816	990
140	1352	205	130	188	681	140	1443	476	258	210	042	140	1534	194	262	862	154
140	1353	082	110	267	463	140	1444	471	251	200	078	140	1535	238	223	634	996
140	1354	119	115	234	510	140	1445	109	130	343	605	140	1536	220	220	614	962
140	1355	107	135	335	636	140	1446	102	126	337	737	140	1537	013	193	739	029
140	1356	085	143	383	577	140	1447	088	130	343	711	140	1538	071	226	866	072
140	1357	139	152	364	831	140	1448	123	142	309	858	140	1539	005	234	643	190

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	1540	-128	269	701	-1.207	140	16228	425	216	1.124	-533	140	1734	319	197	1.144	-548
140	1541	-198	211	588	-1.171	140	16229	411	225	1.201	-695	140	1735	211	191	.973	-416
140	1542	-177	202	513	-1.941	140	16330	066	198	1.826	-614	140	1736	185	189	.967	-418
140	1543	029	150	643	-1.579	140	16331	209	197	1.001	-401	140	1737	212	199	1.030	-444
140	1544	058	156	716	-1.575	140	16332	357	193	1.461	-178	140	1738	260	221	.976	-636
140	1545	012	161	544	-1.782	140	16333	401	209	1.447	-294	140	1739	277	209	.985	-402
140	1546	-117	253	615	-1.614	140	16334	368	223	1.252	-371	140	1740	174	170	.745	-549
140	1547	-181	218	444	-1.255	140	16335	070	186	1.935	-521	140	1741	162	211	1.031	-444
140	1548	-182	209	433	-1.689	140	16336	156	190	1.989	-358	140	1742	193	193	.925	-350
140	1549	-083	171	821	-1.821	140	16337	313	197	1.980	-240	140	1743	199	195	.969	-370
140	1550	-008	168	526	-1.701	140	16338	358	197	1.085	-246	140	1744	086	163	.740	-866
140	1551	-065	158	421	-1.635	140	16339	330	195	1.129	-312	140	1801	-	531	.383	-1.560
140	1552	-048	148	440	-1.585	140	1640	176	159	1.694	-302	140	1802	-	417	.229	-1.229
140	1553	-076	133	369	-1.605	140	1641	291	193	1.072	-292	140	1803	-	243	.442	-1.718
140	1554	-072	157	615	-1.659	140	1642	317	195	1.921	-286	140	1804	-	358	.418	-1.454
140	1555	-064	148	491	-1.609	140	1643	327	210	1.067	-508	140	1805	-	621	.421	-2.448
140	1556	128	148	347	-1.642	140	1644	318	212	1.116	-456	140	1806	-	580	.301	-1.587
140	1557	175	162	454	-1.705	140	1701	358	237	1.191	-406	140	1807	-	244	.268	-1.372
140	1558	040	175	458	-1.784	140	1702	302	208	1.097	-509	140	1808	-	267	.221	-1.424
140	1559	025	175	588	-1.842	140	1703	118	167	1.683	-516	140	1809	-	260	.184	-1.276
140	1560	020	140	440	-1.542	140	1704	267	230	1.199	-431	140	1810	-	670	.336	-1.795
140	1561	014	136	451	-1.522	140	1705	272	252	1.282	-388	140	1811	-	495	.342	-1.640
140	1562	080	119	494	-1.404	140	1706	276	259	1.258	-568	140	1812	-	302	.324	-1.410
140	1601	115	222	119	-1.720	140	1707	318	265	1.206	-750	140	1813	-	203	.179	-1.972
140	1602	313	221	317	-1.488	140	1708	374	214	1.159	-401	140	1814	-	253	.152	-1.858
140	1603	277	273	456	-1.708	140	1709	371	219	1.200	-523	140	1815	-	569	.250	-1.878
140	1604	187	299	624	-1.824	140	1710	215	227	1.105	-676	140	1816	-	531	.463	-1.666
140	1605	159	183	764	-1.462	140	1711	408	294	1.436	-357	140	1817	-	358	.321	-1.712
140	1606	301	187	958	-1.331	140	1712	408	294	1.436	-357	140	1818	-	211	.195	-1.091
140	1607	332	199	160	-1.237	140	1713	513	268	1.413	-303	140	1819	-	263	.198	-1.432
140	1608	342	209	217	-1.732	140	1714	494	311	1.516	-717	140	1820	-	422	.276	-1.812
140	1609	376	217	223	-1.211	140	1715	642	243	1.617	-027	140	1821	-	568	.293	-1.644
140	1610	132	219	252	-1.540	140	1716	344	223	1.311	-259	140	1822	-	375	.331	-1.674
140	1611	341	212	318	-1.288	140	1717	423	253	1.323	-679	140	1823	-	267	.226	-1.382
140	1612	430	266	428	-1.260	140	1718	457	261	1.400	-353	140	1824	-	294	.203	-1.879
140	1613	504	266	334	-1.259	140	1719	477	241	1.291	-342	140	1825	-	587	.208	-1.655
140	1614	496	271	385	-1.191	140	1720	479	244	1.344	-461	140	1826	-	587	.659	-1.651
140	1615	073	214	794	-1.333	140	1721	342	201	1.067	-523	140	1827	-	498	.344	-1.844
140	1616	248	221	907	-1.354	140	1722	410	251	1.148	-367	140	1828	-	337	.255	-1.855
140	1617	464	246	402	-1.355	140	1723	428	258	1.151	-392	140	1829	-	370	.240	-1.954
140	1618	538	267	445	-1.330	140	1724	450	230	1.376	-276	140	1830	-	624	.270	-1.835
140	1619	543	262	505	-1.880	140	1725	297	197	1.243	-365	140	1831	-	596	.331	-1.542
140	1620	076	201	900	-1.560	140	1726	353	233	1.370	-396	140	1832	-	416	.440	-1.542
140	1621	235	203	090	-1.452	140	1727	376	241	1.289	-377	140	1833	-	356	.237	-1.579
140	1622	435	218	246	-1.261	140	1728	389	220	1.283	-502	140	1834	-	457	.216	-1.876
140	1623	472	237	543	-1.321	140	1729	387	211	1.283	-305	140	1835	-	547	.300	-1.765
140	1624	468	263	175	-1.686	140	1730	376	189	1.118	-416	140	1836	-	597	.522	-1.160
140	1625	044	212	828	-1.611	140	1731	304	218	1.088	-431	140	1837	-	435	.274	-1.402
140	1626	200	207	905	-1.433	140	1732	311	224	1.217	-540	140	1838	-	377	.255	-1.604
140	1627	364	198	142	-1.387	140	1733	343	201	1.212	-511	140	1839	-	599	.296	-1.474

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	1840	532	278	323	-2.068	140	2308	030	133	453	-407	140	2501	002	157	534	-515
140	1841	522	293	387	-1.866	140	2309	048	141	437	-455	140	2502	041	160	715	-573
140	1842	392	324	409	-2.080	140	2310	064	147	429	-536	140	2503	012	180	753	-634
140	1843	348	264	302	-2.093	140	2311	159	196	420	-909	140	2504	124	164	072	-433
140	1844	321	226	338	-1.808	140	2312	184	195	390	-917	140	2505	143	170	927	-445
140	1845	244	214	400	-1.191	140	2313	104	160	379	-712	140	2506	078	170	990	-500
140	1846	061	165	544	-7.999	140	2314	037	140	427	-808	140	2507	006	179	737	-914
140	1847	042	142	420	-6.500	140	2315	078	136	387	-612	140	2508	033	174	592	-845
140	1848	073	140	564	-5.570	140	2316	083	151	396	-662	140	2509	038	161	522	-634
140	1849	093	140	468	-5.557	140	2317	113	155	467	-667	140	2510	040	159	529	-646
140	1850	011	135	508	-3.885	140	2318	094	155	516	-683	140	2511	006	179	629	-718
140	1851	009	156	891	-5.550	140	2319	055	152	467	-580	140	2512	003	187	950	-646
140	1852	050	151	774	-5.503	140	2320	060	149	375	-510	140	2513	033	168	543	-689
140	1853	046	155	725	-5.535	140	2321	069	143	365	-521	140	2514	033	178	666	-594
140	1854	035	161	726	-5.588	140	2322	040	132	318	-590	140	2515	033	172	641	-583
140	1901	151	126	340	-6.643	140	2401	061	145	392	-615	140	2516	040	184	836	-607
140	1902	246	155	208	-1.110	140	2402	072	156	441	-655	140	2517	088	190	754	-792
140	1903	111	139	347	-7.644	140	2403	076	161	434	-699	140	2518	111	185	700	-714
140	1904	142	142	304	-9.222	140	2404	109	174	432	-765	140	2519	103	176	833	-707
140	1905	153	153	449	-9.444	140	2405	098	155	420	-926	140	2520	063	161	705	-708
140	1906	150	180	482	-8.990	140	2406	127	166	409	-844	140	2521	025	169	642	-560
140	1908	234	221	535	-1.637	140	2407	168	173	320	-902	140	2522	027	164	576	-657
140	1909	161	181	597	-1.042	140	2408	220	179	247	-995	140	2523	034	141	439	-638
140	1910	221	181	376	-1.943	140	2409	187	166	484	-956	140	2524	055	132	418	-634
140	1911	057	340	570	-1.999	140	2410	028	133	377	-960	140	2525	033	126	427	-553
140	1912	195	148	255	-8.255	140	2411	085	152	454	-670	140	2526	091	131	573	-366
140	1913	199	236	516	-8.994	140	2412	099	155	425	-727	140	2527	094	144	542	-364
140	1914	330	203	177	-1.223	140	2413	184	173	305	-796	140	2528	032	158	491	-605
140	1915	391	207	310	-1.360	140	2414	255	195	274	-014	140	2529	053	174	495	-699
140	1916	293	140	134	-1.772	140	2415	087	152	514	-689	140	2530	037	156	462	-563
140	1917	241	189	388	-1.948	140	2416	107	139	327	-668	140	2601	146	176	020	-442
140	1918	303	169	223	-1.929	140	2417	139	139	308	-702	140	2602	190	188	180	-462
140	1919	160	135	330	-1.757	140	2418	204	150	262	-773	140	2603	246	202	025	-404
140	1920	312	253	648	-1.348	140	2419	177	147	373	-777	140	2604	245	212	057	-427
140	1921	414	184	252	-1.150	140	2420	078	155	364	-948	140	2605	128	148	614	-587
140	1922	464	206	101	-1.502	140	2421	075	149	373	-688	140	2606	193	163	681	-476
140	1923	411	172	071	-1.080	140	2422	081	147	375	-695	140	2607	234	183	815	-608
140	1925	222	255	653	-1.236	140	2423	122	155	279	-650	140	2608	239	205	927	-817
140	1926	102	213	637	-1.995	140	2424	145	161	265	-013	140	2609	229	202	962	-563
140	1927	298	176	201	-1.935	140	2425	071	112	487	-320	140	2610	090	157	682	-391
140	1928	533	233	182	-1.695	140	2426	006	130	393	-454	140	2611	131	174	681	-411
140	1929	471	246	372	-1.354	140	2427	040	123	420	-366	140	2612	189	184	852	-382
140	1930	312	175	416	-1.916	140	2428	114	104	497	-230	140	2613	199	205	942	-699
140	2230	034	140	405	-1.567	140	2429	063	106	389	-356	140	2615	045	151	658	-518
140	2231	032	138	402	-1.562	140	2430	001	122	395	-447	140	2616	111	162	761	-445
140	2232	003	121	413	-1.400	140	2431	055	125	443	-555	140	2617	193	174	871	-672
140	2233	008	122	398	-1.401	140	2432	009	128	392	-571	140	2618	190	180	802	-431
140	2234	022	128	428	-1.432	140	2433	081	145	410	-621	140	2619	177	186	805	-427
140	2235	028	124	384	-1.500	140	2434	100	144	384	-638	140	2620	055	115	524	-368
140	2236	034	135	462	-1.477	140	2435	014	133	439	-509	140	2621	097	130	588	-367

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	26222	132	146	855	-764	140	2804	-188	170	818	-544	140	2931	127	129	743	-239
140	26223	136	164	913	-788	140	2805	-134	293	659	-1970	140	2932	062	127	685	-401
140	26224	112	162	893	-708	140	2806	-054	240	797	-928	140	2933	050	128	391	-526
140	26225	079	125	595	-332	140	2807	-074	224	936	-896	140	2934	067	155	553	-768
140	26226	121	132	664	-326	140	2808	-058	291	732	-784	140	2935	095	118	533	-342
140	26227	175	151	757	-311	140	2809	-038	194	823	-751	150	1101	-440	172	154	-1180
140	26228	179	154	729	-434	140	2810	-128	185	527	-858	150	1102	-434	171	199	-1234
140	26229	172	162	743	-433	140	2811	-107	185	518	-791	150	1103	-287	183	299	-1102
140	2701	274	202	1075	-502	140	2812	-071	174	526	-766	150	1104	-255	166	259	-985
140	2702	282	194	1047	-337	140	2813	-043	151	487	-555	150	1105	-260	167	387	-1230
140	2703	281	161	943	-205	140	2814	-046	151	489	-550	150	1106	-403	167	168	-1025
140	2704	228	168	1094	-358	140	2815	-137	173	420	-774	150	1107	-399	163	124	-1023
140	2705	247	151	829	-262	140	2816	-149	178	459	-858	150	1108	-318	159	210	-903
140	2706	222	198	830	-606	140	2817	-102	174	478	-799	150	1109	-187	144	251	-792
140	2707	241	191	850	-522	140	2818	-027	150	477	-647	150	1110	-244	155	306	-872
140	2708	265	199	1123	-411	140	2819	-007	144	464	-480	150	1111	-259	173	282	-1038
140	2709	254	170	809	-184	140	2820	-049	148	447	-781	150	1112	-273	191	292	-1199
140	2710	300	186	1047	-283	140	2821	-053	152	460	-839	150	1113	-377	160	108	-1180
140	2711	309	193	1089	-183	140	2822	-033	162	590	-770	150	1114	-288	150	158	-915
140	2712	248	173	956	-247	140	2823	-001	147	527	-573	150	1115	-387	155	070	-994
140	2713	198	170	814	-357	140	2824	-014	157	525	-621	150	1116	-173	143	282	-731
140	2714	371	171	992	-100	140	2901	-054	154	700	-753	150	1117	-246	159	282	-935
140	2715	203	179	898	-373	140	2902	-120	160	376	-1207	150	1118	-269	179	353	-1245
140	2716	207	169	842	-347	140	2903	-069	159	435	-892	150	1119	-257	165	234	-1135
140	2717	208	161	767	-302	140	2904	-068	138	367	-774	150	1120	-276	165	209	-1170
140	2718	099	161	827	-463	140	2905	-093	148	366	-809	150	1121	-259	163	214	-1090
140	2719	154	162	779	-445	140	2906	-038	149	522	-850	150	1122	-269	153	211	-766
140	2720	153	171	822	-479	140	2907	-162	158	321	-636	150	1123	-283	160	225	-861
140	2721	142	176	908	-501	140	2908	-140	149	320	-581	150	1124	-306	167	209	-911
140	2722	120	172	892	-370	140	2909	-063	153	455	-744	150	1125	-309	181	173	-1175
140	2723	127	174	898	-378	140	2910	-068	161	481	-737	150	1126	-274	171	235	-1030
140	2724	103	159	882	-372	140	2911	-012	162	598	-654	150	1127	-260	153	271	-855
140	2725	104	136	656	-402	140	2912	-068	173	546	-727	150	1128	-263	149	289	-892
140	2726	102	142	683	-402	140	2913	133	193	634	-1070	150	1129	-291	158	272	-1001
140	2727	122	138	625	-354	140	2914	-080	173	227	-475	150	1130	-271	158	294	-1001
140	2728	144	145	722	-261	140	2915	-030	259	751	-1717	150	1131	-298	181	306	-1271
140	2729	151	151	726	-244	140	2916	-140	153	854	-468	150	1132	-316	156	202	-1017
140	2730	096	136	616	-328	140	2917	-033	160	587	-535	150	1133	-325	152	148	-996
140	2731	173	151	745	-405	140	2918	-074	180	614	-754	150	1134	-348	150	106	-932
140	2732	193	154	779	-341	140	2919	155	168	802	-649	150	1135	-326	152	168	-898
140	2733	200	154	802	-272	140	2920	182	249	103	-963	150	1136	-344	167	140	-995
140	2734	193	149	825	-272	140	2921	163	175	910	-1132	150	1137	-377	202	326	-1639
140	2735	188	157	834	-335	140	2922	047	176	765	-992	150	1138	-359	188	235	-1236
140	2736	117	135	723	-364	140	2923	177	179	863	-740	150	1139	-401	192	127	-1413
140	2737	010	144	558	-573	140	2924	179	194	924	-493	150	1140	-369	184	170	-1226
140	2738	093	142	578	-340	140	2925	100	180	788	-712	150	1141	-354	181	196	-1070
140	2739	063	125	467	-323	140	2926	221	173	842	-260	150	1142	-377	191	178	-1282
140	2801	118	173	815	-465	140	2927	205	164	825	-264	150	1143	-527	253	322	-2042
140	2802	080	176	693	-650	140	2928	210	165	873	-274	150	1144	-508	229	209	-1527
140	2803	173	172	789	-698	140	2930	032	143	489	-583	150	1145	-547	241	131	-1610

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	1146	542	236	051	-1.800	150	12330	393	190	155	-1.349	150	13221	2883	158	165	-1.348
150	1147	414	204	146	-1.283	150	12331	413	191	191	-1.249	150	13222	2994	156	154	-1.179
150	1148	355	193	358	-1.250	150	12332	369	172	243	-1.144	150	13223	2666	153	134	-1.348
150	1149	441	213	172	-1.411	150	12333	384	170	143	-1.109	150	13224	247	169	238	-1.311
150	1150	447	213	108	-1.451	150	12334	366	169	180	-1.190	150	13225	346	177	311	-1.153
150	1151	502	232	236	-1.357	150	12335	461	211	135	-1.735	150	13226	313	155	173	-1.241
150	1152	371	226	423	-1.377	150	12336	382	191	237	-1.253	150	13227	279	148	150	-1.001
150	1153	156	208	728	-1.000	150	12337	352	182	342	-1.189	150	13228	260	157	203	-1.182
150	1154	114	220	890	-1.170	150	12338	344	181	156	-1.144	150	13229	246	157	313	-1.045
150	1155	190	170	318	-1.161	150	12339	344	191	193	-1.091	150	13230	253	196	303	-1.285
150	1156	285	163	226	-1.101	150	12440	286	227	377	-1.524	150	13231	347	176	203	-1.071
150	1157	213	156	418	-1.009	150	12441	241	187	303	-1.163	150	13232	374	175	303	-1.086
150	1158	069	163	556	-1.820	150	12442	196	172	342	-1.879	150	13233	346	169	155	-1.043
150	1159	002	165	653	-1.581	150	12443	233	191	334	-1.072	150	13234	338	167	209	-1.038
150	1160	002	166	638	-1.448	150	12444	203	180	327	-1.313	150	13235	340	180	215	-1.038
150	1161	034	165	000	-1.448	150	12445	146	185	570	-1.382	150	13236	527	213	609	-1.531
150	1162	011	176	886	-1.448	150	12446	154	187	584	-1.042	150	13237	502	202	662	-1.399
150	1163	002	128	447	-1.466	150	12447	089	147	385	-1.650	150	13238	444	171	114	-1.288
150	1164	105	159	447	-1.511	150	12448	090	138	353	-1.752	150	13239	387	158	112	-1.250
150	1165	021	132	555	-1.511	150	12449	145	158	401	-1.852	150	13240	397	175	161	-1.129
150	1166	116	156	750	-1.440	150	12450	110	140	395	-1.616	150	13241	492	260	115	-1.568
150	1201	194	157	840	-1.400	150	12551	105	148	443	-1.557	150	13242	425	221	109	-1.407
150	1202	133	146	350	-1.533	150	12552	153	184	350	-1.758	150	13243	360	183	175	-1.343
150	1203	168	147	339	-1.777	150	12553	109	157	492	-1.893	150	13244	355	189	181	-1.421
150	1204	182	142	244	-1.744	150	12554	095	141	387	-1.626	150	13245	352	202	339	-1.309
150	1205	555	156	174	-1.999	150	12555	073	136	482	-1.531	150	13246	350	154	250	-1.849
150	1206	555	147	200	-1.442	150	12556	66	135	428	-1.520	150	13247	310	167	111	-1.067
150	1207	555	135	142	-1.330	150	12557	113	138	303	-1.627	150	13248	275	150	223	-1.950
150	1208	333	133	30	-1.333	150	12558	106	126	292	-1.691	150	13249	250	146	335	-1.921
150	1209	245	138	196	-1.333	150	12559	108	140	366	-1.692	150	13250	184	168	433	-1.988
150	1210	225	144	208	-1.333	150	13000	144	144	162	-1.112	150	13251	196	136	335	-1.650
150	1211	162	133	55	-1.333	150	13001	148	148	149	-1.949	150	13252	281	142	130	-1.817
150	1212	202	135	20	-1.666	150	13002	310	149	181	-1.979	150	13253	243	127	228	-1.768
150	1213	197	135	54	-1.700	150	13003	138	138	251	-1.096	150	13254	194	122	333	-1.624
150	1214	196	138	41	-1.700	150	13004	166	132	254	-1.777	150	13255	129	138	333	-1.638
150	1215	248	148	24	-1.744	150	13005	174	131	259	-1.753	150	13256	99	130	228	-1.601
150	1216	201	134	20	-1.666	150	13006	167	130	269	-1.693	150	13257	166	142	228	-1.637
150	1217	208	134	30	-1.666	150	13007	120	126	322	-1.628	150	13258	171	130	228	-1.619
150	1218	254	142	16	-1.666	150	13008	110	128	326	-1.536	150	13259	161	136	333	-1.556
150	1219	239	144	16	-1.666	150	13009	135	135	303	-1.640	150	1401	176	155	288	-1.180
150	1220	264	142	13	-1.666	150	13010	162	131	283	-1.051	150	1402	170	157	304	-1.671
150	1221	255	138	21	-1.666	150	13011	125	125	323	-1.649	150	1403	155	153	411	-1.724
150	1222	264	138	21	-1.666	150	13012	170	129	290	-1.728	150	1404	150	153	228	-1.172
150	1223	243	140	21	-1.666	150	13013	144	144	185	-1.925	150	1405	192	158	333	-1.335
150	1224	280	150	139	-1.999	150	13014	173	139	286	-1.758	150	1406	182	151	228	-1.033
150	1225	322	160	169	-1.166	150	13015	129	129	199	-1.697	150	1407	138	145	229	-1.935
150	1226	343	160	152	-1.166	150	13016	129	129	210	-1.721	150	1408	188	150	322	-1.916
150	1227	399	153	97	-1.333	150	13017	128	130	188	-1.804	150	1409	193	142	228	-1.766
150	1228	399	149	144	-1.333	150	13018	129	129	203	-1.805	150	1410	193	147	288	-1.003
150	1229	300	152	27	-1.333	150	13019	129	129	293	-1.979	150	1411	143	140	279	-1.709



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	1412	-293	115	087	-794	150	1503	-131	202	559	-742	150	1553	-035	148	514	-537
150	1413	-278	183	356	-1019	150	1504	-143	219	715	-1179	150	1554	-032	171	602	-728
150	1414	-271	181	363	-1016	150	1505	-219	278	883	-1347	150	1555	-010	165	609	-701
150	1415	-314	177	294	-1230	150	1506	-155	188	1040	-527	150	1556	-060	169	527	-670
150	1416	-306	169	222	-1083	150	1507	-210	203	1125	-507	150	1557	-072	184	677	-705
150	1417	-293	167	179	-1053	150	1508	-200	178	903	-524	150	1558	-007	173	564	-1237
150	1418	-322	163	194	-1493	150	1509	-022	246	764	-820	150	1559	-030	168	570	-906
150	1419	-306	181	158	-1738	150	1510	-137	191	559	-906	150	1560	-024	142	529	-571
150	1420	-396	215	338	-1614	150	1511	-121	206	713	-1086	150	1561	-056	135	492	-554
150	1421	-376	195	336	-1196	150	1512	-114	206	711	-1005	150	1562	-097	144	664	-360
150	1422	-367	183	136	-1462	150	1513	-191	220	1106	-565	150	1601	-086	266	204	-624
150	1423	-361	177	105	-1361	150	1514	-379	264	1290	-547	150	1602	-225	279	287	-446
150	1424	-361	176	104	-1351	150	1515	-219	249	942	-707	150	1603	-207	321	501	-599
150	1425	-410	251	205	-2441	150	1516	-019	275	1031	-862	150	1604	-129	299	655	-818
150	1426	-391	207	113	-1456	150	1517	-106	216	854	-821	150	1605	-235	202	117	-433
150	1427	-374	193	205	-1329	150	1518	-094	194	602	-700	150	1606	-338	202	166	-281
150	1428	-368	188	150	-1211	150	1519	-268	244	1108	-662	150	1607	-414	215	195	-177
150	1429	-356	184	137	-1187	150	1520	-280	249	1106	-640	150	1608	-398	225	195	-312
150	1430	-437	233	247	-2075	150	1521	-188	250	962	-761	150	1609	-416	212	156	-270
150	1431	-423	208	229	-1555	150	1522	-022	271	958	-955	150	1610	-262	233	366	-527
150	1432	-403	187	228	-1271	150	1523	-065	232	877	-897	150	1611	-438	222	351	-232
150	1433	-380	181	229	-1441	150	1524	-097	239	667	-350	150	1612	-298	267	486	-147
150	1434	-384	215	201	-1381	150	1525	-208	214	996	-681	150	1613	-458	266	362	-340
150	1435	-429	221	202	-1459	150	1526	-239	245	1092	-864	150	1614	-406	269	320	-371
150	1436	-495	199	180	-1535	150	1527	-178	264	947	-1108	150	1615	-242	244	175	-521
150	1437	-459	203	038	-1512	150	1528	-065	329	1002	-1192	150	1616	-390	244	415	-305
150	1438	-420	194	085	-1373	150	1529	-029	251	777	-895	150	1617	-547	259	723	-367
150	1439	-470	183	124	-1453	150	1530	-009	229	945	-723	150	1618	-546	258	811	-398
150	1440	-311	186	183	-1449	150	1531	-167	196	825	-625	150	1619	-528	271	339	-340
150	1441	-334	224	233	-1459	150	1532	-224	208	948	-627	150	1620	-308	240	275	-359
150	1442	-450	265	233	-1671	150	1533	-176	211	867	-899	150	1621	-438	244	302	-274
150	1443	-632	276	133	-2061	150	1534	-086	277	1077	-1196	150	1622	-576	249	393	-206
150	1444	-611	265	106	-2006	150	1535	-012	248	901	-080	150	1623	-525	265	662	-223
150	1445	-141	126	249	-559	150	1536	-006	240	900	-944	150	1624	-504	265	484	-263
150	1446	-120	128	366	-497	150	1537	-082	185	788	-607	150	1625	-559	265	116	-574
150	1447	-095	130	433	-527	150	1538	-228	211	1106	-504	150	1626	-381	222	351	-412
150	1448	-166	167	334	-1364	150	1539	-183	206	930	-560	150	1627	-537	222	448	-082
150	1449	-210	215	333	-1524	150	1540	-064	275	1020	-915	150	1628	-526	222	412	-132
150	1450	-045	129	434	-5526	150	1541	-048	224	820	-847	150	1629	-465	230	394	-224
150	1451	-033	131	462	-557	150	1542	-029	217	807	-779	150	1630	-225	209	121	-505
150	1452	-044	132	558	-448	150	1543	-096	176	648	-557	150	1631	-365	205	1033	-388
150	1453	-055	138	509	-397	150	1544	-175	196	808	-511	150	1632	-492	235	476	-065
150	1454	-045	146	503	-474	150	1545	-144	192	726	-603	150	1633	-494	239	632	-144
150	1455	-062	106	330	-458	150	1546	-072	231	776	-928	150	1634	-424	245	660	-461
150	1456	-002	126	338	-385	150	1547	-025	194	610	-886	150	1635	-212	182	991	-454
150	1457	-063	133	508	-338	150	1548	-028	190	579	-777	150	1636	-284	188	050	-325
150	1458	-078	135	555	-378	150	1549	-045	176	609	-655	150	1637	-403	199	323	-120
150	1459	-049	137	558	-404	150	1550	-063	195	867	-810	150	1638	-395	211	193	-189
150	1501	-072	130	359	-595	150	1551	-005	182	835	-894	150	1639	-335	222	176	-275
150	1502	-006	146	459	-585	150	1552	-012	172	753	-818	150	1640	-243	182	043	-341

APPENDIX A -- PRESSURE DATA

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	1641	332	208	1.355	-209	150	1803	-484	239	196	-2303	150	1853	027	144	631	-450
150	1642	361	206	1.290	-216	150	1804	-472	217	231	-1510	150	1854	017	151	694	-591
150	1643	359	216	1.369	-232	150	1805	-722	279	010	-2324	150	1901	-205	136	348	-737
150	1644	340	226	1.149	-553	150	1806	-683	264	078	-1707	150	1902	-346	155	103	-1078
150	1701	167	230	1.166	-497	150	1807	-532	249	170	-1720	150	1903	-160	149	288	-882
150	1702	164	236	1.905	-568	150	1808	-471	225	157	-1440	150	1904	-207	149	306	-956
150	1703	025	197	1.687	-759	150	1809	-448	203	100	-1703	150	1905	-202	146	231	-1000
150	1704	066	215	1.983	-572	150	1810	-778	263	176	-1952	150	1906	-233	181	288	-1151
150	1705	067	210	1.835	-524	150	1811	-740	271	413	-1761	150	1908	-341	219	300	-1760
150	1706	004	241	1.041	-925	150	1812	-440	246	340	-1522	150	1909	-219	186	428	-1254
150	1707	033	289	1.127	-914	150	1813	-447	215	182	-1436	150	1910	-273	180	248	-1175
150	1708	127	262	1.181	-679	150	1814	-438	193	197	-1269	150	1911	-246	293	1.262	-846
150	1709	230	269	1.375	-660	150	1815	-515	243	171	-1728	150	1912	-224	147	200	-854
150	1710	122	245	1.144	-741	150	1816	-514	237	169	-1483	150	1913	-020	269	833	-983
150	1711	156	251	1.102	-563	150	1817	-478	252	388	-1492	150	1914	-346	189	348	-1268
150	1712	215	266	1.066	-541	150	1818	-306	209	328	-1214	150	1915	-476	159	151	-1420
150	1713	211	311	1.202	-709	150	1819	-302	224	354	-1721	150	1916	-299	150	191	-893
150	1714	546	281	1.608	-412	150	1820	-511	233	102	-1587	150	1917	-116	210	795	-921
150	1715	257	241	1.291	-674	150	1821	-544	230	032	-1617	150	1918	-379	172	205	-1056
150	1716	253	284	1.159	-037	150	1822	-469	237	357	-2186	150	1919	-294	143	308	-1161
150	1717	280	290	1.223	-677	150	1823	-433	230	280	-1397	150	1920	-191	215	464	-1072
150	1718	355	290	1.191	-593	150	1824	-353	293	279	-1945	150	1921	-500	186	123	-1127
150	1719	385	264	1.244	-576	150	1825	-514	217	062	-1531	150	1922	-559	206	126	-1746
150	1720	354	209	1.194	-425	150	1826	-492	216	179	-1513	150	1924	-510	183	063	-1180
150	1721	282	242	1.139	-496	150	1827	-462	239	214	-1689	150	1925	-156	229	732	-1167
150	1722	282	256	1.162	-554	150	1828	-359	232	403	-1492	150	1926	-177	210	528	-1008
150	1723	339	284	1.434	-746	150	1829	-386	244	359	-1785	150	1927	-329	172	193	-1237
150	1724	353	254	1.324	-819	150	1830	-582	237	033	-1686	150	1928	-666	262	049	-2057
150	1725	198	198	1.140	-502	150	1831	-597	237	077	-1873	150	1929	-362	252	1.258	-476
150	1726	227	227	1.192	-645	150	1832	-570	242	247	-1659	150	1930	-427	179	410	-1271
150	1727	263	271	1.839	-640	150	1833	-487	233	166	-1424	150	2301	010	155	584	-469
150	1728	340	261	1.639	-772	150	1834	-515	233	324	-2021	150	2302	001	152	571	-473
150	1729	380	238	1.666	-850	150	1835	-645	232	150	-1692	150	2303	009	139	523	-455
150	1730	334	199	1.995	-730	150	1836	-720	250	115	-2052	150	2304	007	140	437	-462
150	1731	240	250	1.372	-719	150	1837	-665	238	165	-1185	150	2305	005	145	439	-547
150	1732	193	263	1.171	-510	150	1838	-558	250	161	-1510	150	2306	007	136	471	-417
150	1733	285	239	1.149	-570	150	1839	-505	269	368	-2236	150	2307	000	139	479	-428
150	1734	289	218	1.108	-479	150	1840	-695	290	014	-2413	150	2308	000	140	475	-411
150	1735	197	191	1.013	-515	150	1841	-688	293	004	-2352	150	2309	010	135	471	-467
150	1736	096	237	1.976	-619	150	1842	-569	309	190	-1900	150	2310	-017	144	430	-482
150	1737	106	255	1.086	-713	150	1843	-394	240	269	-1424	150	2311	001	179	602	-579
150	1738	202	239	1.961	-888	150	1844	-418	224	171	-1403	150	2312	-034	174	532	-662
150	1739	253	213	1.987	-777	150	1845	-249	187	279	-1106	150	2313	-042	173	499	-630
150	1740	137	173	1.764	-585	150	1846	-100	168	481	-843	150	2314	008	151	462	-585
150	1741	097	243	1.369	-743	150	1847	-100	159	465	-649	150	2315	021	140	499	-578
150	1742	144	239	1.930	-665	150	1848	-146	154	402	-632	150	2316	005	151	567	-608
150	1743	181	231	1.959	-574	150	1849	-164	159	370	-958	150	2317	016	153	578	-670
150	1744	006	192	1.784	-731	150	1850	-053	139	453	-597	150	2318	001	153	601	-711
150	1801	602	236	1.146	-551	150	1851	-034	138	463	-474	150	2319	018	132	499	-432
150	1802	506	206	1.165	-432	150	1852	-030	142	852	-460	150	2320	021	135	457	-497



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	22321	008	135	519	652	150	22514	092	206	739	650	150	22706	172	239	866	823
150	22322	004	133	486	418	150	22515	082	193	738	636	150	22707	209	218	869	617
150	22401	023	155	448	633	150	22516	045	185	619	650	150	22708	210	206	925	703
150	22402	048	157	418	832	150	22517	006	191	654	792	150	22709	250	182	918	326
150	22403	051	162	425	704	150	22518	010	197	665	729	150	22710	236	179	846	304
150	22404	090	184	392	925	150	22519	011	181	600	689	150	22711	262	186	124	310
150	22405	023	143	380	581	150	22520	042	178	990	512	150	22712	178	171	790	364
150	22406	038	155	371	675	150	22521	029	145	573	541	150	22713	169	174	890	457
150	22407	073	169	358	147	150	22522	042	152	554	528	150	22714	212	167	904	302
150	22408	131	177	323	161	150	22523	041	156	555	740	150	22715	195	169	765	248
150	22409	153	181	387	078	150	22524	008	147	569	630	150	22716	197	163	745	291
150	22410	005	143	491	528	150	22525	025	142	513	567	150	22717	195	182	924	295
150	22411	017	150	456	532	150	22526	100	133	569	324	150	22718	086	165	746	133
150	22412	037	154	412	646	150	22527	117	134	597	292	150	22719	112	170	809	244
150	22413	141	156	291	779	150	22528	064	149	558	681	150	22720	098	187	875	816
150	22414	203	185	287	059	150	22529	005	167	529	805	150	22721	119	192	817	629
150	22415	002	150	585	763	150	22530	002	150	514	602	150	22722	104	185	797	600
150	22416	026	137	396	473	150	22601	244	186	011	290	150	22723	111	181	852	526
150	22417	066	137	351	517	150	22602	281	186	012	269	150	22724	080	158	680	342
150	22418	134	154	501	803	150	22603	252	177	135	323	150	22725	111	144	724	353
150	22419	158	161	323	955	150	22604	240	180	196	221	150	22726	101	151	851	356
150	22420	014	144	459	780	150	22605	189	162	979	378	150	22727	125	144	711	318
150	22421	012	142	465	595	150	22606	234	158	081	257	150	22728	116	129	648	442
150	22422	020	140	493	677	150	22607	258	162	179	222	150	22729	122	132	725	435
150	22423	053	146	422	669	150	22608	257	166	193	273	150	22730	066	127	597	453
150	22424	074	150	408	741	150	22609	245	188	920	354	150	22731	123	147	643	444
150	22425	106	106	490	436	150	22610	159	175	855	448	150	22732	143	151	707	443
150	22426	080	112	440	435	150	22611	171	162	915	358	150	22733	158	147	714	291
150	22427	059	115	446	521	150	22612	191	160	899	266	150	22734	150	145	702	293
150	22428	130	103	515	206	150	22613	180	169	917	301	150	22735	163	140	681	256
150	22429	128	106	486	240	150	22615	091	185	855	563	150	22736	091	130	562	318
150	22430	111	110	463	343	150	22616	153	161	984	290	150	22737	040	157	455	757
150	22431	099	113	487	395	150	22617	196	151	806	282	150	22738	073	138	582	351
150	22432	107	114	516	379	150	22618	183	154	017	316	150	22739	067	135	509	388
150	22433	080	136	570	481	150	22619	156	160	049	317	150	22801	012	189	803	091
150	22434	021	142	567	645	150	22620	092	133	557	347	150	22802	001	202	722	666
150	22435	009	146	666	642	150	22621	104	131	521	320	150	22803	054	194	731	649
150	22501	046	154	542	470	150	22622	119	134	529	309	150	22804	064	194	764	382
150	22502	140	188	821	568	150	22623	118	138	523	392	150	22805	054	194	764	382
150	22503	106	893	751	751	150	22624	105	143	840	525	150	22806	066	214	540	971
150	22504	166	162	851	384	150	22625	112	131	578	425	150	22807	077	220	550	020
150	22505	198	171	860	438	150	22626	138	130	658	328	150	22808	096	176	426	144
150	22506	155	186	827	606	150	22627	170	136	656	249	150	22809	099	163	399	056
150	22507	059	230	110	955	150	22628	165	136	745	235	150	22810	100	162	221	029
150	22508	048	237	804	032	150	22629	148	131	628	396	150	22811	100	161	218	008
150	22509	037	212	703	975	150	22630	214	206	153	676	150	22812	100	150	432	731
150	22510	028	208	681	947	150	22631	229	194	076	385	150	22813	099	133	422	665
150	22511	041	172	815	744	150	22632	182	182	943	432	150	22814	078	133	444	667
150	22512	068	192	852	629	150	22633	185	177	741	927	150	22815	092	171	305	950
150	22513	189	184	873	491	150	22705	167	171	872	469	150	22816	099	176	278	886

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1500	2817	163	182	368	940	160	1109	241	146	275	796	160	1159	028	165	658	620
1500	2818	090	169	405	878	160	1110	326	160	218	983	160	1160	015	169	749	650
1500	2819	058	151	398	641	160	1111	311	151	122	001	160	1161	020	156	662	584
1500	2820	085	149	459	648	160	1112	323	164	103	172	160	1162	024	167	570	657
1500	2821	089	151	430	713	160	1113	355	160	319	970	160	1163	021	134	422	456
1500	2822	074	156	437	701	160	1114	309	153	282	863	160	1164	076	155	700	360
1500	2823	029	146	432	658	160	1115	354	156	182	930	160	1165	003	128	418	370
1500	2824	042	154	478	675	160	1116	232	127	190	620	160	1166	086	152	689	354
1500	2901	017	167	584	866	160	1117	312	139	138	756	160	1201	260	160	231	204
1500	2902	041	177	594	754	160	1118	320	156	130	905	160	1202	193	151	253	107
1500	2903	008	159	558	816	160	1119	304	159	218	006	160	1203	261	156	205	443
1500	2904	023	149	670	722	160	1120	331	161	159	998	160	1204	260	147	153	991
1500	2905	036	154	526	694	160	1121	303	157	180	012	160	1205	360	158	134	138
1500	2906	001	149	585	636	160	1122	314	140	078	948	160	1206	371	153	155	103
1500	2907	012	171	532	521	160	1123	322	145	089	012	160	1207	301	142	246	996
1500	2908	008	176	595	569	160	1124	358	153	069	220	160	1208	313	146	116	808
1500	2909	017	153	489	774	160	1125	347	152	255	963	160	1209	282	144	161	756
1500	2910	017	160	512	799	160	1126	301	142	259	855	160	1210	278	140	157	725
1500	2911	011	148	528	464	160	1127	287	144	201	820	160	1211	210	130	200	609
1500	2912	035	165	556	748	160	1128	293	143	182	878	160	1212	272	133	138	689
1500	2913	111	174	570	796	160	1129	335	150	159	925	160	1213	272	130	260	728
1500	2914	149	221	320	597	160	1130	302	146	191	938	160	1214	266	131	259	723
1500	2915	043	222	702	1009	160	1131	345	153	165	973	160	1215	301	136	129	835
1500	2916	153	159	836	345	160	1132	330	148	105	000	160	1216	292	130	047	577
1500	2917	110	197	915	615	160	1133	343	146	062	176	160	1217	260	135	167	748
1500	2918	024	187	649	820	160	1134	383	144	011	980	160	1218	299	141	161	786
1500	2919	172	152	788	433	160	1135	344	145	029	003	160	1219	276	141	182	838
1500	2920	059	318	063	281	160	1136	355	167	068	086	160	1220	298	135	118	769
1500	2921	162	201	907	658	160	1137	410	192	118	541	160	1221	291	132	136	758
1500	2922	041	192	700	035	160	1138	388	176	143	189	160	1222	317	131	122	766
1500	2923	210	161	851	316	160	1139	446	180	099	146	160	1223	285	130	097	890
1500	2924	149	220	949	758	160	1140	398	176	129	052	160	1224	310	158	208	922
1500	2925	019	220	717	407	160	1141	384	179	106	151	160	1225	341	162	115	060
1500	2926	210	188	942	339	160	1142	409	189	244	240	160	1226	370	163	149	070
1500	2927	213	170	853	269	160	1143	410	215	182	648	160	1227	316	158	191	970
1500	2928	213	164	850	249	160	1144	394	192	187	206	160	1228	322	150	130	059
1500	2929	018	139	574	544	160	1145	433	200	046	448	160	1229	346	157	179	021
1500	2930	110	140	572	356	160	1146	421	198	172	617	160	1230	333	183	058	529
1500	2931	043	131	501	462	160	1147	378	167	137	087	160	1231	375	189	112	982
1500	2932	074	138	373	641	160	1148	368	197	307	305	160	1232	360	170	141	983
1500	2933	048	170	502	854	160	1149	475	187	131	217	160	1233	339	166	172	065
1500	2934	055	129	528	555	160	1150	462	186	207	224	160	1234	377	175	195	139
1600	1101	377	168	196	010	160	1151	523	198	028	586	160	1235	334	180	201	099
1600	1102	373	168	195	978	160	1152	378	189	245	255	160	1236	366	176	204	530
1600	1103	307	161	315	978	160	1153	192	164	334	929	160	1237	331	188	212	397
1600	1104	315	164	214	101	160	1154	156	184	519	184	160	1238	328	188	212	397
1600	1105	320	170	206	184	160	1155	277	158	264	122	160	1239	354	207	254	263
1600	1106	356	157	177	957	160	1156	315	168	182	013	160	1240	250	208	321	434
1600	1107	348	152	171	935	160	1157	242	162	339	005	160	1241	224	184	391	239
1600	1108	327	151	180	894	160	1158	096	164	531	771	160	1242	197	170	324	933

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	1243	-207	171	323	-1.142	160	1334	-346	170	181	-1.426	160	1425	-428	237	297	-1.984
160	1244	-220	180	341	-1.957	160	1335	-365	193	431	-1.414	160	1426	-398	215	222	-1.708
160	1245	-151	185	398	-1.225	160	1336	-494	220	093	-1.764	160	1427	-403	216	181	-1.618
160	1246	-137	170	495	-1.998	160	1337	-470	200	097	-1.394	160	1428	-394	208	139	-1.358
160	1247	-102	147	435	-1.636	160	1338	-439	179	070	-1.125	160	1429	-382	204	164	-1.322
160	1248	-114	139	355	-1.763	160	1339	-390	166	073	-1.129	160	1430	-452	259	379	-1.702
160	1249	-131	133	321	-1.724	160	1340	-413	185	178	-1.266	160	1431	-441	243	326	-1.424
160	1250	-129	138	321	-1.343	160	1341	-517	230	199	-1.650	160	1432	-477	242	270	-1.916
160	1251	-121	146	364	-1.614	160	1342	-451	235	183	-1.462	160	1433	-464	228	237	-1.627
160	1252	-150	172	271	-1.666	160	1344	-427	190	176	-1.200	160	1434	-445	206	087	-1.723
160	1253	-107	149	476	-1.767	160	1345	-424	197	194	-1.240	160	1435	-446	261	199	-1.500
160	1254	-087	149	404	-1.726	160	1346	-338	226	583	-1.736	160	1436	-511	230	125	-1.327
160	1255	-070	131	435	-1.592	160	1347	-327	169	238	-1.972	160	1437	-519	248	183	-1.789
160	1256	-075	126	388	-1.530	160	1348	-352	204	221	-1.251	160	1438	-543	231	128	-2.305
160	1257	-101	120	314	-1.649	160	1349	-310	174	186	-1.996	160	1439	-490	217	218	-1.354
160	1258	-113	131	345	-1.724	160	1350	-283	167	200	-1.946	160	1440	-387	256	272	-1.585
160	1259	-101	124	276	-1.036	160	1351	-151	168	604	-1.869	160	1441	-318	256	298	-1.419
160	1301	-338	165	342	-1.193	160	1352	-196	138	487	-1.754	160	1442	-448	304	342	-2.016
160	1302	-315	132	115	-1.798	160	1353	-292	147	188	-1.872	160	1443	-596	283	242	-1.945
160	1303	-317	133	153	-1.852	160	1354	-253	129	206	-1.749	160	1444	-593	269	132	-1.845
160	1304	-284	136	108	-1.831	160	1355	-198	125	246	-1.658	160	1445	-164	152	321	-1.748
160	1305	-272	140	132	-1.887	160	1356	-130	128	374	-1.634	160	1446	-116	134	308	-1.714
160	1306	-266	131	106	-1.781	160	1357	-129	136	365	-1.622	160	1447	-076	143	379	-1.679
160	1307	-255	131	169	-1.738	160	1358	-197	148	304	-1.968	160	1448	-246	248	352	-1.945
160	1308	-195	125	193	-1.617	160	1359	-168	137	317	-1.646	160	1449	-372	282	374	-2.226
160	1309	-197	138	227	-1.802	160	1360	-162	136	319	-1.664	160	1450	-061	129	310	-1.518
160	1310	-269	149	184	-1.004	160	1401	-280	156	184	-1.927	160	1451	-029	127	359	-1.474
160	1311	-283	143	173	-1.134	160	1402	-276	159	200	-1.953	160	1452	-021	128	426	-1.415
160	1312	-210	131	168	-1.927	160	1403	-219	157	242	-1.974	160	1453	-011	140	490	-1.517
160	1313	-276	137	108	-1.944	160	1404	-419	189	149	-1.257	160	1454	-014	149	508	-1.723
160	1314	-290	130	136	-1.719	160	1405	-313	164	227	-1.668	160	1455	-065	105	301	-1.468
160	1315	-264	147	191	-1.764	160	1406	-301	153	176	-1.103	160	1456	-001	117	392	-1.389
160	1316	-307	149	096	-1.389	160	1407	-242	148	241	-1.986	160	1457	-065	139	524	-1.364
160	1317	-302	147	107	-1.126	160	1408	-314	157	205	-1.078	160	1458	-075	139	543	-1.353
160	1318	-329	148	073	-1.150	160	1409	-312	163	137	-1.041	160	1459	-065	139	535	-1.363
160	1319	-287	144	120	-1.124	160	1410	-302	172	288	-1.106	160	1501	-136	134	472	-1.622
160	1320	-316	167	354	-1.114	160	1411	-236	157	202	-1.897	160	1502	-031	149	621	-1.723
160	1321	-329	174	176	-1.194	160	1412	-318	121	086	-1.844	160	1503	-009	201	754	-1.677
160	1322	-357	170	149	-1.178	160	1413	-379	204	143	-1.668	160	1504	-058	245	1.066	-1.677
160	1323	-309	164	202	-1.983	160	1414	-370	201	200	-1.552	160	1505	-056	278	1.230	-1.988
160	1324	-320	150	156	-1.827	160	1415	-359	202	346	-1.203	160	1506	-103	178	981	-1.493
160	1325	-335	161	211	-1.456	160	1416	-347	189	346	-1.233	160	1507	-200	203	1.066	-1.511
160	1326	-407	185	137	-1.514	160	1417	-345	189	349	-1.536	160	1508	-223	182	923	-1.358
160	1327	-356	173	112	-1.201	160	1418	-335	167	323	-1.472	160	1509	-213	267	1.287	-1.606
160	1328	-339	162	195	-1.138	160	1419	-364	192	189	-1.867	160	1510	-044	210	814	-1.618
160	1329	-326	159	188	-1.050	160	1420	-390	203	151	-2.035	160	1511	-037	194	811	-1.916
160	1330	-369	183	187	-1.238	160	1421	-372	186	164	-1.890	160	1512	-046	193	805	-1.896
160	1331	-411	229	187	-1.238	160	1422	-389	204	243	-1.659	160	1513	-159	196	940	-1.491
160	1332	-378	180	192	-1.510	160	1423	-382	202	094	-1.670	160	1514	-419	240	1.439	-1.186
160	1333	-348	175	200	-1.559	160	1424	-380	200	087	-1.659	160	1515	-292	222	1.195	-1.382

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	1516	196	282	1.189	-762	160	1604	932	229	1.425	-741	160	1719	117	275	1.089	-1.061
160	1517	088	228	1.125	-693	160	1605	259	201	1.042	-333	160	1711	004	258	1.054	-1.031
160	1518	090	232	1.084	-678	160	1606	335	202	1.098	-198	160	1712	026	260	1.068	-1.045
160	1519	304	208	1.084	-362	160	1607	320	192	1.063	-230	160	1713	054	303	1.122	-1.099
160	1520	324	206	1.087	-462	160	1608	287	212	1.143	-396	160	1714	302	291	1.315	-1.292
160	1521	320	193	0.969	-479	160	1609	273	196	1.040	-468	160	1715	217	275	1.257	-1.234
160	1522	282	246	0.981	-816	160	1610	399	211	1.424	-359	160	1716	031	298	1.029	-1.006
160	1523	177	240	0.980	-706	160	1611	485	222	1.497	-302	160	1717	001	289	1.018	-0.995
160	1524	162	235	0.966	-993	160	1612	436	222	1.439	-278	160	1718	071	299	1.012	-0.989
160	1525	280	198	0.968	-630	160	1613	394	222	1.111	-375	160	1719	208	308	1.147	-1.124
160	1526	352	208	1.105	-276	160	1614	333	222	1.239	-433	160	1720	230	261	1.135	-1.112
160	1527	330	201	1.050	-276	160	1615	397	222	1.339	-577	160	1721	026	243	1.077	-1.054
160	1528	350	243	1.157	-501	160	1616	476	238	1.338	-638	160	1722	010	248	1.070	-1.047
160	1529	245	251	1.216	-429	160	1617	529	245	1.370	-618	160	1723	104	308	1.220	-1.197
160	1530	184	230	0.931	-628	160	1618	426	255	1.459	-362	160	1724	222	297	1.381	-1.358
160	1531	228	183	1.015	-343	160	1619	334	233	1.212	-323	160	1725	165	239	1.051	-0.928
160	1532	312	190	1.268	-250	160	1620	405	230	1.254	-317	160	1726	014	251	1.022	-0.899
160	1533	284	183	1.147	-374	160	1621	478	230	1.254	-211	160	1727	029	249	1.036	-0.913
160	1534	310	227	1.241	-530	160	1622	530	255	1.247	-173	160	1728	036	303	1.028	-0.905
160	1535	172	246	1.163	-664	160	1623	420	221	1.234	-149	160	1729	159	304	1.028	-0.905
160	1536	182	235	1.057	-628	160	1624	334	226	1.204	-449	160	1730	193	233	1.028	-0.905
160	1537	119	177	0.762	-514	160	1625	391	226	1.233	-248	160	1731	017	260	1.066	-1.043
160	1538	298	203	1.025	-395	160	1626	471	225	1.318	-122	160	1732	021	261	1.066	-1.043
160	1539	274	194	1.003	-450	160	1627	468	225	1.342	-083	160	1733	096	327	1.106	-1.083
160	1540	279	248	1.240	-711	160	1628	369	228	1.318	-250	160	1734	200	275	1.201	-1.178
160	1541	184	263	1.208	-612	160	1629	264	222	1.220	-388	160	1735	051	207	1.030	-0.907
160	1542	184	248	1.244	-565	160	1630	367	233	1.441	-374	160	1736	099	230	1.027	-0.904
160	1543	112	160	0.667	-475	160	1631	460	219	1.216	-187	160	1737	119	237	1.027	-0.904
160	1544	226	168	0.816	-413	160	1632	460	222	1.622	-120	160	1738	057	313	1.136	-1.113
160	1545	197	161	0.737	-410	160	1633	373	244	1.414	-368	160	1739	073	310	1.112	-1.089
160	1546	219	203	0.995	-523	160	1634	251	222	1.066	-593	160	1740	058	245	1.037	-0.914
160	1547	135	213	0.807	-545	160	1635	324	239	1.316	-362	160	1741	097	232	1.037	-0.914
160	1548	142	199	0.789	-527	160	1636	374	239	1.471	-330	160	1742	075	234	1.037	-0.914
160	1549	032	161	0.673	-541	160	1637	405	188	1.521	-328	160	1743	018	230	1.037	-0.914
160	1550	190	186	0.772	-466	160	1638	282	221	1.188	-493	160	1744	103	213	1.037	-0.914
160	1551	156	182	0.724	-468	160	1639	177	225	1.098	-603	160	1801	501	208	1.054	-1.031
160	1552	136	183	0.764	-520	160	1640	335	255	1.056	-327	160	1802	447	186	1.039	-1.016
160	1553	067	171	0.754	-495	160	1641	368	206	1.327	-179	160	1803	448	203	1.218	-1.195
160	1554	031	153	0.649	-607	160	1642	390	206	1.097	-167	160	1804	411	187	1.245	-1.222
160	1555	067	151	0.627	-591	160	1643	312	222	1.041	-235	160	1805	594	250	1.025	-0.902
160	1556	052	139	0.550	-553	160	1644	204	222	1.110	-364	160	1806	570	228	1.211	-1.188
160	1557	054	161	0.556	-602	160	1701	073	132	1.001	-091	160	1807	537	211	1.058	-0.935
160	1558	082	146	0.730	-817	160	1702	123	132	1.288	-749	160	1808	449	195	1.315	-1.292
160	1559	089	147	0.737	-062	160	1703	214	132	1.288	-904	160	1809	414	207	1.339	-1.316
160	1560	084	146	0.747	-401	160	1704	056	124	1.600	-442	160	1810	564	233	1.588	-1.565
160	1561	108	141	0.607	-383	160	1705	053	124	1.779	-1.168	160	1811	586	242	1.683	-1.660
160	1562	107	143	0.602	-336	160	1706	137	128	1.600	-1.505	160	1812	377	191	1.391	-1.368
160	1601	153	275	1.222	-719	160	1707	148	128	1.731	-1.252	160	1813	424	189	1.234	-1.211
160	1602	224	288	1.458	-578	160	1708	067	128	1.972	-780	160	1814	423	193	1.179	-1.156
160	1603	170	280	1.307	-747	160	1709	086	128	1.890	-931	160	1815	419	200	1.198	-1.175

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	1816	413	194	190	-1.403	160	1913	209	254	1.045	-0.922	160	2412	032	159	558	-494
160	1817	429	198	179	-1.681	160	1914	353	173	1.355	-1.219	160	2413	026	168	742	-605
160	1818	345	178	262	-1.114	160	1915	410	177	2.254	-1.167	160	2414	079	185	749	-834
160	1819	368	200	343	-1.259	160	1916	306	134	1.666	-0.803	160	2415	056	153	501	-465
160	1820	415	182	122	-1.550	160	1917	091	241	1.124	-0.630	160	2416	017	147	547	-441
160	1821	449	174	064	-1.551	160	1918	424	181	0.833	-1.010	160	2417	021	146	456	-488
160	1822	400	186	147	-1.228	160	1919	318	155	2.257	-0.801	160	2418	086	160	580	-624
160	1823	365	178	292	-1.228	160	1920	116	201	0.584	-0.871	160	2419	120	145	394	-650
160	1824	379	196	301	-1.535	160	1921	463	194	0.070	-1.080	160	2420	049	134	497	-421
160	1825	476	198	085	-1.335	160	1922	499	197	0.075	-1.401	160	2421	048	134	493	-437
160	1826	430	197	105	-1.304	160	1924	476	189	0.366	-1.295	160	2422	035	133	509	-585
160	1827	437	197	110	-1.410	160	1925	099	212	0.474	-1.312	160	2423	015	138	475	-639
160	1828	408	181	167	-1.151	160	1926	175	240	0.551	-1.713	160	2424	002	139	472	-697
160	1829	462	204	147	-1.533	160	1927	361	159	1.336	-1.065	160	2425	080	117	476	-388
160	1830	503	203	067	-1.454	160	1928	520	210	0.071	-1.653	160	2426	086	125	518	-507
160	1831	473	201	094	-1.673	160	1929	024	259	1.030	-1.795	160	2427	106	114	485	-285
160	1832	476	210	142	-2.230	160	1930	404	184	1.311	-1.085	160	2428	151	114	600	-178
160	1833	500	215	155	-1.497	160	23301	152	149	0.732	-0.286	160	2429	136	099	551	-198
160	1834	493	232	222	-1.529	160	23302	133	150	0.710	-0.346	160	2430	132	099	551	-221
160	1835	604	224	031	-1.503	160	23303	132	148	0.669	-0.690	160	2431	127	099	531	-268
160	1836	563	225	041	-1.630	160	23304	121	137	0.639	-0.424	160	2432	134	099	542	-207
160	1837	540	184	099	-1.128	160	23305	107	137	0.625	-0.518	160	2433	121	118	518	-388
160	1838	504	232	478	-1.482	160	23306	158	152	0.678	-0.380	160	2434	059	139	502	-676
160	1839	471	245	253	-1.777	160	23307	158	142	0.625	-0.386	160	2435	047	145	505	-148
160	1840	613	256	020	-1.998	160	23308	128	131	0.658	-0.343	160	2501	225	157	849	-260
160	1841	602	257	004	-2.128	160	23309	123	132	0.561	-0.356	160	2502	284	168	898	-341
160	1842	532	242	152	-1.433	160	23310	124	134	0.599	-0.393	160	2503	275	197	1.079	-401
160	1843	483	225	201	-1.292	160	23311	100	159	0.633	-0.418	160	2504	293	163	1.032	-234
160	1844	484	221	151	-1.466	160	23312	053	147	0.546	-0.406	160	2505	333	178	1.273	-269
160	1845	261	177	209	-1.048	160	23313	164	149	0.685	-0.481	160	2506	312	183	1.125	-479
160	1846	175	178	312	-0.913	160	23314	158	132	0.651	-0.444	160	2507	308	175	1.050	-440
160	1847	192	179	348	-1.121	160	23315	058	146	0.544	-0.353	160	2508	295	177	1.014	-526
160	1848	229	169	229	-1.033	160	23316	045	147	0.466	-0.477	160	2509	268	162	881	-391
160	1849	235	163	205	-1.006	160	23317	045	152	0.458	-0.452	160	2510	256	161	861	-358
160	1850	082	135	449	-0.564	160	23318	057	153	0.499	-0.490	160	2511	153	164	844	-600
160	1851	070	133	427	-0.573	160	23319	054	129	0.535	-0.327	160	2512	222	181	851	-531
160	1852	005	136	503	-0.477	160	23320	065	132	0.510	-0.309	160	2513	312	167	1.008	-237
160	1853	000	137	549	-0.696	160	23321	061	133	0.473	-0.347	160	2514	184	199	903	-351
160	1854	015	149	578	-0.578	160	23322	055	132	0.495	-0.426	160	2515	156	189	1.003	-474
160	1901	276	136	169	-0.883	160	2401	113	142	0.676	-0.371	160	2516	144	175	1.124	-509
160	1902	359	146	087	-1.380	160	2402	113	154	0.599	-0.501	160	2517	093	181	1.196	-432
160	1903	222	140	216	-0.934	160	2403	106	150	0.599	-0.472	160	2518	093	193	1.233	-662
160	1904	310	152	138	-0.937	160	2404	069	161	0.548	-0.550	160	2519	089	178	1.158	-465
160	1905	284	157	292	-1.553	160	2405	130	141	0.602	-0.678	160	2520	118	169	1.077	-425
160	1906	345	201	316	-1.733	160	2406	122	151	0.605	-0.772	160	2521	077	135	540	-401
160	1908	437	225	231	-2.337	160	2407	094	161	0.624	-0.722	160	2522	101	135	582	-351
160	1909	318	184	295	-1.206	160	2408	044	168	0.669	-0.782	160	2523	074	152	668	-521
160	1910	325	169	245	-1.111	160	2409	019	171	0.420	-0.853	160	2524	037	147	661	-468
160	1911	373	263	339	-1.339	160	2410	148	129	0.672	-0.629	160	2525	046	145	615	-499
160	1912	315	153	191	-0.871	160	2411	052	152	0.507	-0.384	160	2526	114	126	626	-314



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	2527	125	143	756	354	160	2719	032	172	738	467	160	2906	050	140	587	450
160	2528	109	142	677	349	160	2720	009	179	654	528	160	2907	050	161	647	682
160	2529	087	143	648	520	160	2721	001	165	895	726	160	2908	078	170	856	627
160	2530	075	138	554	378	160	2722	028	154	942	660	160	2909	113	136	670	369
160	2601	356	187	237	224	160	2723	051	151	007	568	160	2910	122	141	659	510
160	2602	375	186	237	180	160	2724	014	142	951	459	160	2911	144	184	795	630
160	2603	362	188	165	120	160	2725	051	138	519	467	160	2912	077	157	687	842
160	2604	329	185	999	152	160	2726	051	141	638	476	160	2913	037	200	716	223
160	2605	318	172	176	171	160	2727	066	141	593	422	160	2914	274	183	107	272
160	2606	341	173	239	134	160	2728	077	136	584	339	160	2915	239	183	878	702
160	2607	346	176	271	137	160	2729	087	138	588	332	160	2916	247	150	732	575
160	2608	331	175	293	114	160	2730	020	137	566	473	160	2917	187	185	854	505
160	2609	311	174	202	360	160	2731	064	134	665	389	160	2918	215	182	920	658
160	2610	210	201	243	261	160	2732	083	136	672	451	160	2919	288	157	847	384
160	2611	213	170	884	262	160	2733	120	130	686	284	160	2920	134	313	874	715
160	2612	206	163	864	292	160	2734	108	130	734	279	160	2921	205	262	091	022
160	2613	166	158	732	337	160	2735	124	133	635	338	160	2922	043	200	587	361
160	2615	183	175	840	294	160	2736	052	125	555	385	160	2923	320	187	036	186
160	2616	171	174	872	355	160	2737	115	168	478	839	160	2924	159	213	955	675
160	2617	183	165	825	338	160	2738	026	129	489	430	160	2925	085	285	738	492
160	2618	154	155	635	283	160	2739	036	129	436	393	160	2926	165	195	215	473
160	2619	109	160	746	336	160	2801	115	277	719	1	160	2927	199	176	091	349
160	2620	087	141	556	331	160	2802	164	245	460	1	160	2928	205	169	084	287
160	2621	098	136	609	420	160	2803	003	232	746	1	160	2929	036	158	518	553
160	2622	100	136	573	407	160	2804	027	212	881	1	160	2930	084	141	821	377
160	2623	087	136	516	352	160	2805	187	172	351	1	160	2931	037	140	383	616
160	2624	068	142	676	365	160	2806	184	194	499	1	160	2932	218	156	302	957
160	2625	146	139	620	372	160	2807	180	184	495	874	160	2933	242	221	335	451
160	2626	159	143	656	367	160	2808	139	163	422	871	160	2934	014	133	374	555
160	2627	173	148	736	350	160	2809	104	155	418	779	170	1101	257	147	268	790
160	2628	152	144	726	372	160	2810	272	170	256	063	170	1102	248	146	217	781
160	2629	127	138	683	295	160	2811	259	168	261	030	170	1103	228	154	241	844
160	2701	252	199	929	494	160	2812	205	168	233	931	170	1104	201	133	263	757
160	2702	283	179	937	346	160	2813	166	157	338	837	170	1105	203	132	211	851
160	2703	274	188	983	374	160	2814	162	158	345	806	170	1106	253	150	293	031
160	2704	074	219	871	724	160	2815	260	182	339	984	170	1107	241	146	317	999
160	2705	182	199	884	796	160	2816	280	186	280	984	170	1108	208	143	325	984
160	2706	127	233	923	703	160	2817	256	194	333	041	170	1109	144	119	264	758
160	2707	195	213	133	664	160	2818	185	187	336	910	170	1110	210	127	212	722
160	2708	075	228	895	653	160	2819	165	174	332	865	170	1111	227	150	250	163
160	2709	281	162	971	310	160	2820	182	163	333	910	170	1112	228	153	225	166
160	2710	270	161	895	259	160	2821	192	163	330	035	170	1113	249	148	305	800
160	2711	305	175	954	407	160	2822	181	168	282	941	170	1114	213	139	305	685
160	2712	220	155	907	483	160	2823	081	153	416	717	170	1115	249	141	284	733
160	2713	065	166	783	404	160	2824	098	163	425	826	170	1116	166	129	211	641
160	2714	097	137	595	339	160	2901	054	146	494	436	170	1117	229	139	151	765
160	2715	132	172	767	373	160	2902	047	160	632	675	170	1118	242	143	252	767
160	2716	153	160	733	333	160	2903	061	142	620	431	170	1119	248	127	221	867
160	2717	166	180	886	423	160	2904	047	148	620	582	170	1120	294	129	197	839
160	2718	004	149	553	512	160	2905	040	149	582	452	170	1121	245	123	190	692

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	1122	268	138	306	829	170	1206	243	143	227	726	170	1256	64	130	407	522
170	1123	274	139	291	768	170	1207	250	140	181	861	170	1257	122	147	354	703
170	1124	332	147	232	867	170	1208	267	148	179	863	170	1258	114	140	337	584
170	1125	300	151	117	989	170	1209	213	148	250	833	170	1259	118	141	376	701
170	1126	236	140	163	854	170	1210	217	128	175	713	170	1301	290	155	207	963
170	1127	263	137	207	659	170	1211	155	118	204	614	170	1302	259	144	207	889
170	1128	265	136	177	783	170	1212	222	124	171	659	170	1303	255	143	226	816
170	1129	323	142	129	832	170	1213	233	136	226	715	170	1304	260	144	266	898
170	1130	272	137	207	722	170	1214	235	138	236	760	170	1305	253	154	242	811
170	1131	288	145	180	832	170	1215	261	135	294	744	170	1306	242	133	291	864
170	1132	252	137	159	853	170	1216	260	104	081	538	170	1307	230	129	297	690
170	1133	263	137	138	874	170	1217	246	136	180	849	170	1308	164	123	343	604
170	1134	277	143	086	997	170	1218	309	146	129	074	170	1309	168	137	353	680
170	1135	262	142	177	220	170	1219	261	144	166	054	170	1310	250	150	284	858
170	1136	293	148	262	810	170	1220	272	149	137	957	170	1311	253	159	231	058
170	1137	311	170	321	449	170	1221	267	146	138	901	170	1312	180	142	278	799
170	1138	292	156	306	203	170	1222	319	150	134	870	170	1313	246	148	226	816
170	1139	376	162	323	320	170	1223	269	150	192	797	170	1314	187	139	297	685
170	1140	297	153	339	239	170	1224	288	153	157	959	170	1315	234	154	265	750
170	1141	308	156	257	985	170	1225	291	155	282	164	170	1316	274	160	165	055
170	1142	388	164	267	041	170	1226	345	156	195	934	170	1317	271	154	159	955
170	1143	356	197	253	536	170	1227	277	151	205	791	170	1318	320	160	175	063
170	1144	354	181	136	031	170	1228	304	155	159	025	170	1319	255	152	205	886
170	1145	378	189	114	107	170	1229	318	165	149	060	170	1320	299	162	348	466
170	1146	359	183	132	115	170	1230	382	174	168	127	170	1321	313	177	192	128
170	1147	309	171	291	096	170	1231	308	146	219	010	170	1322	365	174	151	135
170	1148	293	169	215	301	170	1232	321	156	244	886	170	1323	293	163	219	913
170	1149	414	196	143	400	170	1233	304	158	241	951	170	1324	270	153	319	985
170	1150	407	197	139	403	170	1234	334	188	325	075	170	1325	302	165	158	996
170	1151	449	197	121	831	170	1235	331	193	224	166	170	1326	421	207	077	454
170	1152	319	185	236	278	170	1236	339	174	238	525	170	1327	340	183	148	247
170	1153	170	152	384	774	170	1237	290	163	148	964	170	1328	306	171	222	318
170	1154	144	165	449	028	170	1238	306	181	175	075	170	1329	299	168	218	162
170	1155	301	152	138	897	170	1239	321	203	173	187	170	1330	332	184	410	487
170	1156	375	164	117	118	170	1240	225	180	326	074	170	1331	339	213	207	607
170	1157	298	163	289	159	170	1241	226	171	336	944	170	1332	348	185	238	150
170	1158	144	156	618	820	170	1242	218	167	307	868	170	1333	324	177	242	948
170	1159	073	160	721	657	170	1243	234	189	336	039	170	1334	329	176	225	926
170	1160	053	162	555	704	170	1244	250	193	301	116	170	1335	317	198	288	568
170	1161	006	156	555	475	170	1245	159	205	495	254	170	1336	471	251	151	964
170	1162	050	161	598	557	170	1246	148	174	541	812	170	1337	435	206	130	531
170	1163	036	135	598	458	170	1247	108	153	372	743	170	1338	429	203	102	727
170	1164	045	142	618	409	170	1248	126	159	503	724	170	1339	397	188	145	518
170	1165	014	122	475	392	170	1249	150	163	402	155	170	1340	373	180	171	131
170	1166	060	141	607	394	170	1250	114	136	332	665	170	1341	424	251	142	857
170	1201	222	148	242	813	170	1251	109	146	385	067	170	1342	331	201	136	417
170	1202	166	139	257	702	170	1252	149	182	424	012	170	1344	336	186	182	086
170	1203	233	147	199	701	170	1253	100	155	529	127	170	1345	323	188	188	076
170	1204	229	136	252	769	170	1254	095	157	376	847	170	1346	269	186	692	500
170	1205	268	147	204	821	170	1255	061	132	368	549	170	1347	275	180	413	032



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	1348	-358	208	169	-1.325	170	1438	-545	225	153	-1.510	170	1529	391	212	1.074	233
170	1349	-310	171	198	-1.995	170	1439	-530	217	178	-1.341	170	1530	357	230	1.464	421
170	1350	-278	163	241	-1.892	170	1440	-303	217	204	-1.405	170	1531	229	181	1.026	306
170	1351	-090	156	459	-1.742	170	1441	-285	236	343	-1.514	170	1532	328	190	1.152	220
170	1352	-167	141	488	-1.633	170	1442	-425	292	394	-1.626	170	1533	317	185	1.121	215
170	1353	-296	154	185	-1.055	170	1443	-582	264	345	-2.318	170	1534	373	212	1.214	389
170	1354	-255	133	167	-1.739	170	1444	-569	245	415	-2.154	170	1535	334	225	1.187	382
170	1355	-190	124	210	-1.539	170	1445	-161	140	296	-1.834	170	1536	331	212	1.143	360
170	1356	-114	142	421	-1.539	170	1446	-139	139	475	-1.735	170	1537	121	164	1.697	354
170	1357	-113	141	458	-1.540	170	1447	-139	139	575	-1.895	170	1538	312	185	1.123	245
170	1358	-153	148	421	-1.024	170	1448	-289	300	555	-1.815	170	1539	306	177	1.936	233
170	1359	-160	128	289	-1.648	170	1449	-431	312	624	-1.238	170	1540	385	190	1.133	200
170	1360	-157	127	293	-1.604	170	1450	-605	128	450	-1.525	170	1541	360	215	1.093	365
170	1401	-265	154	231	-1.884	170	1451	-033	126	512	-1.451	170	1542	349	203	1.084	303
170	1402	-265	160	245	-1.048	170	1452	-022	128	529	-1.445	170	1543	159	164	1.910	371
170	1403	-201	152	272	-1.817	170	1453	-018	141	453	-1.539	170	1544	285	173	1.079	265
170	1404	-387	179	408	-1.194	170	1454	-046	148	473	-1.699	170	1545	275	170	1.013	266
170	1405	-327	190	408	-1.277	170	1455	-040	114	366	-1.359	170	1546	369	221	1.368	524
170	1406	-314	179	318	-1.271	170	1456	-011	115	390	-1.357	170	1547	317	257	1.533	472
170	1407	-264	173	192	-1.201	170	1457	-093	133	628	-1.325	170	1548	308	241	1.513	445
170	1408	-342	182	130	-1.210	170	1458	-073	138	605	-1.328	170	1549	121	178	1.830	331
170	1409	-339	199	320	-1.555	170	1459	-073	139	589	-1.334	170	1550	248	164	1.888	249
170	1410	-267	182	287	-1.891	170	1500	-083	127	363	-1.610	170	1551	225	164	1.844	251
170	1411	-199	169	335	-1.882	170	1501	-039	140	516	-1.521	170	1552	227	174	1.933	339
170	1412	-358	154	085	-1.118	170	1503	-183	184	854	-1.563	170	1553	183	204	1.867	413
170	1413	-418	250	281	-1.940	170	1504	-246	237	1.073	-1.468	170	1554	097	155	1.656	399
170	1414	-411	246	161	-1.684	170	1505	-270	255	1.136	-1.575	170	1555	143	150	1.650	388
170	1415	-340	193	390	-1.933	170	1506	-121	172	775	-1.387	170	1556	115	140	1.570	406
170	1416	-333	193	359	-1.599	170	1507	-218	196	1.001	-1.337	170	1557	159	154	1.653	383
170	1417	-387	226	278	-1.681	170	1508	-244	244	910	-1.365	170	1558	119	147	1.693	307
170	1418	-393	199	171	-1.542	170	1509	-333	206	1.124	-1.351	170	1559	151	148	1.822	323
170	1419	-497	286	201	-2.337	170	1510	-247	229	1.087	-1.389	170	1560	110	154	1.877	310
170	1420	-366	214	288	-1.386	170	1511	-210	217	1.114	-1.538	170	1561	133	146	1.733	331
170	1421	-353	195	411	-1.106	170	1512	-213	213	1.115	-1.522	170	1562	142	150	1.990	377
170	1422	-404	224	178	-1.679	170	1513	-244	200	1.115	-1.411	170	1601	297	234	1.413	486
170	1423	-402	225	153	-1.945	170	1514	-518	242	1.398	-1.163	170	1602	360	291	1.522	371
170	1424	-399	222	162	-1.735	170	1515	-421	223	1.224	-1.241	170	1603	248	265	1.314	459
170	1425	-406	230	205	-1.661	170	1516	-440	248	1.569	-1.317	170	1604	050	233	1.114	674
170	1426	-403	243	333	-1.528	170	1517	-330	251	1.269	-1.420	170	1605	273	223	1.099	168
170	1427	-453	247	302	-2.161	170	1518	-299	255	1.273	-1.471	170	1606	312	211	1.063	192
170	1428	-472	235	302	-1.735	170	1519	-216	216	1.238	-1.347	170	1607	387	217	1.407	360
170	1429	-458	230	084	-1.757	170	1520	-359	211	1.167	-1.432	170	1608	254	201	1.148	370
170	1430	-415	253	296	-1.939	170	1521	-371	205	1.090	-1.527	170	1609	195	190	1.069	356
170	1431	-400	244	279	-1.933	170	1522	-371	230	1.180	-1.902	170	1610	501	270	1.723	189
170	1432	-472	258	236	-2.019	170	1523	-365	256	1.317	-1.704	170	1611	536	263	1.696	038
170	1433	-498	242	135	-1.879	170	1524	-349	262	1.310	-1.590	170	1612	488	259	1.466	143
170	1434	-506	216	080	-1.457	170	1525	-283	188	1.365	-1.332	170	1613	409	229	1.249	401
170	1435	-409	215	215	-1.118	170	1526	-374	183	1.095	-2.006	170	1614	269	221	1.165	639
170	1436	-445	224	211	-1.219	170	1527	-368	175	1.026	-2.216	170	1615	504	263	1.442	285
170	1437	-510	259	392	-1.668	170	1528	-433	188	1.130	-2.225	170	1616	530	258	1.409	236

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	1617	.496	.241	1.4535	-.2336	170	1723	-.176	.265	1.967	-1.048	170	1829	-.336	.194	.163	-1.733
170	1618	.304	.219	1.1536	-.383	170	1724	-.044	.316	1.037	-1.065	170	1830	-.387	.191	.153	-1.483
170	1619	.150	.243	1.608	-.622	170	1725	-.044	.311	1.838	-1.003	170	1831	-.387	.187	.140	-1.299
170	1620	.478	.227	1.514	-.140	170	1726	-.242	.251	1.679	-1.062	170	1832	-.382	.192	.137	-1.444
170	1621	.501	.225	1.449	-.073	170	1727	-.222	.242	1.552	-1.004	170	1833	-.463	.215	.142	-1.662
170	1622	.473	.220	1.213	-.135	170	1728	-.203	.288	1.815	-1.153	170	1834	-.453	.214	.140	-1.943
170	1623	.314	.240	1.190	-.273	170	1729	-.085	.367	1.050	-1.565	170	1835	-.488	.207	.120	-1.512
170	1624	.174	.231	1.010	-.512	170	1730	-.070	.299	1.815	-1.276	170	1836	-.451	.193	.134	-1.368
170	1625	.427	.201	1.100	-.135	170	1731	-.200	.253	1.523	-.943	170	1837	-.430	.147	.020	-1.031
170	1626	.450	.196	1.161	-.169	170	1732	-.236	.225	1.623	-1.136	170	1838	-.422	.201	.164	-1.376
170	1627	.461	.238	1.352	-.247	170	1733	-.199	.290	1.689	-1.325	170	1839	-.442	.219	.165	-1.784
170	1628	.271	.230	1.183	-.415	170	1734	-.068	.298	1.811	-1.270	170	1840	-.556	.224	.130	-1.589
170	1629	.111	.237	1.004	-.613	170	1735	-.126	.276	1.974	-1.428	170	1841	-.538	.217	.061	-1.542
170	1630	.448	.212	1.346	-.161	170	1736	-.267	.199	1.459	-1.053	170	1842	-.518	.210	.124	-1.473
170	1631	.503	.247	1.366	-.191	170	1737	-.279	.202	1.478	-1.030	170	1843	-.470	.203	.018	-1.314
170	1632	.424	.226	1.345	-.312	170	1738	-.254	.248	1.718	-1.092	170	1844	-.434	.191	.055	-1.764
170	1633	.268	.234	1.078	-.501	170	1739	-.140	.296	1.779	-1.165	170	1845	-.330	.172	.223	-1.909
170	1634	.092	.250	1.915	-.669	170	1740	-.095	.270	1.142	-1.978	170	1846	-.297	.183	.313	-1.901
170	1635	.406	.214	1.216	-.380	170	1741	-.314	.216	1.328	-1.196	170	1847	-.297	.184	.324	-1.950
170	1636	.424	.213	1.303	-.166	170	1742	-.271	.207	1.507	-1.083	170	1848	-.308	.178	.254	-1.948
170	1637	.390	.207	1.364	-.225	170	1743	-.190	.224	1.608	-1.162	170	1849	-.297	.172	.251	-1.937
170	1638	.174	.179	1.049	-.479	170	1744	-.234	.184	1.482	-.922	170	1850	-.124	.144	.388	-1.622
170	1639	.035	.182	1.822	-.665	170	1801	-.412	.227	1.85	-1.630	170	1851	-.101	.139	.418	-1.623
170	1640	.355	.215	1.157	-.581	170	1802	-.358	.198	1.251	-1.381	170	1852	-.025	.138	.520	-1.513
170	1641	.355	.213	1.167	-.286	170	1803	-.290	.181	1.205	-1.208	170	1853	-.034	.138	.453	-1.471
170	1642	.358	.222	1.309	-.400	170	1804	-.299	.175	1.207	-.998	170	1854	-.050	.145	.440	-1.682
170	1643	.259	.232	1.148	-.434	170	1805	-.400	.191	1.160	-1.537	170	1901	-.245	.148	.286	-1.780
170	1644	.097	.209	1.981	-.493	170	1806	-.382	.188	1.240	-1.566	170	1902	-.317	.167	.165	-1.032
170	1701	-.259	.280	1.530	-.924	170	1807	-.334	.183	1.284	-1.195	170	1903	-.197	.148	.255	-1.835
170	1702	-.180	.210	1.435	-.120	170	1808	-.317	.177	1.234	-1.174	170	1904	-.323	.177	.275	-1.473
170	1703	-.203	.177	1.402	-.925	170	1809	-.303	.184	1.346	-1.027	170	1905	-.260	.148	.207	-1.834
170	1704	-.178	.260	1.627	-.1288	170	1810	-.395	.198	1.163	-1.648	170	1906	-.311	.184	.280	-1.110
170	1705	-.215	.271	1.533	-.612	170	1811	-.353	.188	1.185	-1.190	170	1908	-.373	.193	.211	-1.182
170	1706	-.233	.234	1.486	-.1272	170	1812	-.310	.165	1.187	-.947	170	1909	-.266	.181	.172	-2.022
170	1707	-.222	.209	1.720	-.910	170	1813	-.284	.168	1.265	-.977	170	1910	-.223	.153	.230	-1.652
170	1708	-.088	.216	1.941	-.789	170	1814	-.285	.175	1.251	-1.077	170	1911	-.457	.252	1.558	-2.259
170	1709	-.147	.319	1.680	-.791	170	1815	-.312	.164	1.150	-1.277	170	1912	-.226	.132	.254	-1.706
170	1710	-.178	.299	1.788	-.830	170	1816	-.301	.156	1.149	-1.222	170	1913	-.462	.242	1.305	-2.269
170	1711	-.132	.232	1.686	-.991	170	1817	-.334	.155	1.139	-.977	170	1914	-.302	.177	.259	-1.031
170	1712	-.148	.224	1.553	-.935	170	1818	-.270	.147	1.125	-.905	170	1915	-.313	.188	.235	-1.162
170	1713	-.231	.244	1.613	-.072	170	1819	-.300	.155	1.197	-1.848	170	1916	-.279	.151	.226	-1.959
170	1714	-.050	.292	1.296	-.816	170	1820	-.346	.173	1.052	-1.262	170	1917	-.342	.245	1.197	-1.689
170	1715	-.121	.355	1.216	-.513	170	1821	-.386	.159	1.086	-1.268	170	1918	-.338	.181	.244	-1.960
170	1716	-.308	.293	1.677	-.1456	170	1822	-.304	.165	1.160	-1.394	170	1919	-.221	.133	.201	-1.709
170	1717	-.265	.280	1.757	-.262	170	1823	-.285	.166	1.174	-.972	170	1920	-.115	.212	.607	-1.875
170	1718	-.196	.295	1.945	-.121	170	1824	-.296	.180	1.182	-1.225	170	1921	-.366	.194	.160	-1.207
170	1719	-.075	.296	1.950	-.945	170	1825	-.390	.178	1.180	-1.500	170	1922	-.383	.203	.186	-1.309
170	1720	-.149	.299	1.114	-.021	170	1826	-.317	.170	1.219	-1.396	170	1924	-.381	.200	.204	-1.939
170	1721	-.182	.244	1.541	-.931	170	1827	-.321	.164	1.203	-1.112	170	1925	-.100	.236	.760	-1.238
170	1722	-.203	.248	1.542	-.107	170	1828	-.321	.169	1.191	-1.237	170	1926	-.248	.302	.504	-1.487

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	1927	.273	.182	.283	-.021	170	2425	.050	.120	.464	-.429	170	2610	.201	.177	.837	-.575
170	1928	-.348	.194	.302	-.157	170	2426	.033	.167	.670	-.721	170	2611	.245	.183	.993	-.451
170	1929	-.167	.234	.886	-.867	170	2427	.136	.113	.508	-.477	170	2612	.220	.175	.896	-.334
170	1930	-.354	.195	.220	-.152	170	2428	.181	.120	.666	-.228	170	2613	.144	.163	.770	-.449
170	2301	.073	.180	.620	-.551	170	2429	.173	.124	.550	-.279	170	2615	.205	.210	1.108	-.462
170	2302	.047	.189	.589	-.545	170	2430	.176	.127	.550	-.302	170	2616	.196	.201	.891	-.857
170	2303	.030	.164	.605	-.466	170	2431	.170	.129	.550	-.312	170	2617	.201	.176	.816	-.345
170	2304	.014	.145	.523	-.535	170	2432	.178	.127	.550	-.310	170	2618	.141	.157	.719	-.276
170	2305	.018	.141	.483	-.585	170	2433	.168	.109	.550	-.225	170	2619	.075	.154	.706	-.377
170	2306	.093	.167	.882	-.559	170	2434	.127	.123	.550	-.383	170	2620	.087	.130	.606	-.458
170	2307	.064	.142	.633	-.440	170	2435	.113	.127	.550	-.414	170	2621	.076	.140	.736	-.433
170	2308	.010	.130	.556	-.648	170	2501	.133	.150	.696	-.445	170	2622	.079	.139	.730	-.506
170	2309	.015	.130	.618	-.520	170	2502	.208	.166	.788	-.461	170	2623	.059	.139	.687	-.431
170	2310	.007	.130	.660	-.473	170	2503	.220	.182	.939	-.618	170	2624	.040	.149	.642	-.385
170	2311	.209	.181	.925	-.546	170	2504	.197	.164	.787	-.270	170	2625	.117	.140	.549	-.420
170	2312	.149	.171	.902	-.471	170	2505	.227	.171	.754	-.219	170	2626	.124	.144	.606	-.336
170	2313	.052	.138	.627	-.431	170	2506	.229	.164	.770	-.548	170	2627	.137	.144	.570	-.341
170	2314	.029	.128	.517	-.436	170	2507	.208	.187	.770	-.477	170	2628	.117	.141	.661	-.352
170	2315	.106	.132	.528	-.355	170	2508	.199	.189	1.060	-.493	170	2629	.096	.139	.587	-.801
170	2316	.044	.146	.503	-.442	170	2509	.163	.179	.622	-.499	170	2701	-.029	.209	.892	-.556
170	2317	.064	.140	.494	-.372	170	2510	.149	.181	.622	-.477	170	2702	.041	.180	.914	-.292
170	2318	.076	.143	.531	-.377	170	2511	.197	.168	.891	-.295	170	2703	-.019	.204	.574	-.423
170	2319	.086	.149	.690	-.353	170	2512	.277	.189	.891	-.179	170	2704	-.057	.249	.816	-.309
170	2320	.107	.153	.764	-.344	170	2513	.347	.159	.947	-.176	170	2705	-.160	.254	.449	-.770
170	2321	.117	.144	.623	-.310	170	2514	.226	.162	.855	-.360	170	2706	-.172	.164	.477	-.719
170	2322	.126	.151	.655	-.382	170	2515	.187	.157	.779	-.377	170	2707	-.128	.182	.524	-.812
170	2401	.015	.136	.481	-.445	170	2516	.156	.165	.717	-.432	170	2708	-.036	.211	.899	-.641
170	2402	.033	.144	.590	-.702	170	2517	.093	.168	.673	-.488	170	2709	.013	.158	.560	-.475
170	2403	.017	.148	.543	-.579	170	2518	.099	.182	.734	-.464	170	2710	-.086	.151	.559	-.558
170	2404	.011	.157	.571	-.682	170	2519	.098	.165	.681	-.496	170	2711	.143	.170	.624	-.706
170	2405	.000	.141	.547	-.546	170	2520	.181	.180	.962	-.383	170	2712	.044	.147	.728	-.466
170	2406	.005	.149	.547	-.780	170	2521	.089	.139	.619	-.380	170	2713	-.005	.166	.519	-.731
170	2407	.018	.165	.543	-.735	170	2522	.116	.129	.666	-.333	170	2714	-.002	.136	.437	-.595
170	2408	.068	.181	.548	-.786	170	2523	.100	.129	.666	-.333	170	2715	.072	.197	.818	-.351
170	2409	.073	.190	.506	-.994	170	2524	.062	.131	.499	-.395	170	2716	.129	.176	.719	-.532
170	2410	.014	.129	.505	-.439	170	2525	.069	.129	.500	-.380	170	2717	.118	.154	.633	-.452
170	2411	.090	.150	.646	-.380	170	2526	.120	.124	.550	-.301	170	2718	.035	.147	.571	-.560
170	2412	.075	.161	.606	-.449	170	2527	.157	.142	.750	-.343	170	2719	.033	.144	.489	-.558
170	2413	.034	.181	.724	-.664	170	2528	.148	.140	.715	-.352	170	2720	.048	.144	.472	-.686
170	2414	.019	.196	.766	-.744	170	2529	.130	.139	.688	-.333	170	2721	.038	.161	.515	-.434
170	2415	.077	.146	.549	-.390	170	2530	.117	.137	.630	-.338	170	2722	.006	.167	.520	-.548
170	2416	.051	.139	.564	-.420	170	2601	.223	.194	1.159	-.346	170	2723	.025	.163	.621	-.400
170	2417	.012	.142	.599	-.514	170	2602	.226	.189	1.149	-.489	170	2724	.014	.150	.537	-.454
170	2418	.042	.162	.818	-.573	170	2603	.187	.184	1.110	-.262	170	2725	.006	.137	.462	-.454
170	2419	.091	.174	.894	-.018	170	2604	.120	.183	.987	-.365	170	2726	.005	.137	.451	-.500
170	2420	.102	.143	.544	-.342	170	2605	.188	.182	.958	-.338	170	2727	.025	.139	.529	-.398
170	2421	.098	.141	.561	-.353	170	2606	.200	.176	1.000	-.338	170	2728	.039	.137	.535	-.422
170	2422	.084	.136	.490	-.393	170	2607	.187	.174	1.124	-.598	170	2729	.048	.140	.572	-.422
170	2423	.037	.139	.600	-.492	170	2608	.147	.164	1.022	-.450	170	2730	.013	.139	.519	-.425
170	2424	.018	.140	.567	-.590	170	2609	.069	.159	.655	-.450	170	2731	.009	.140	.501	-.425

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	2732	.027	.150	.563	-.485	170	2919	.115	.149	.744	-.535	180	1135	-.186	.139	.269	-.648
170	2733	.097	.151	.682	-.353	170	2920	-.557	.306	.404	-2.310	180	1136	-.211	.133	.226	-.736
170	2734	.080	.143	.557	-.323	170	2921	-.157	.290	.730	-1.423	180	1137	-.246	.154	.291	-1.254
170	2735	.102	.128	.556	-.343	170	2922	-.305	.203	.309	-1.341	180	1138	-.225	.142	.321	-.982
170	2736	.030	.122	.544	-.390	170	2923	-.152	.183	.927	-.567	180	1139	-.323	.153	.298	-1.000
170	2737	.152	.161	.389	-.845	170	2924	-.135	.211	.664	-1.115	180	1140	-.229	.142	.346	-.898
170	2738	.010	.125	.458	-.469	170	2925	-.481	.321	.527	-2.042	180	1141	-.201	.141	.239	-.862
170	2739	.012	.127	.500	-.354	170	2926	.077	.171	.928	-.452	180	1142	-.213	.146	.210	-.908
170	2801	-.591	.407	.261	-2.030	170	2927	.137	.163	.875	-.398	180	1143	-.308	.156	.162	-1.299
170	2802	-.362	.329	.419	-2.315	170	2928	-.143	.155	.835	-.443	180	1144	-.289	.144	.141	-.967
170	2803	-.417	.263	.315	-1.440	170	2929	-.084	.162	.641	-.740	180	1145	-.303	.150	.154	-1.013
170	2804	-.346	.214	.270	-1.326	170	2930	-.022	.127	.494	-.356	180	1146	-.281	.147	.182	-.851
170	2805	-.369	.176	.112	-1.297	170	2931	-.104	.146	.473	-.740	180	1147	-.247	.148	.228	-.820
170	2806	-.395	.194	.111	-2.048	170	2932	-.320	.132	.082	-.848	180	1148	-.237	.151	.264	-1.471
170	2807	-.397	.198	.216	-1.214	170	2933	-.406	.208	.173	-1.389	180	1149	-.333	.166	.160	-1.009
170	2808	-.335	.175	.211	-1.270	170	2934	-.077	.141	.479	-.757	180	1150	-.315	.164	.161	-.952
170	2809	-.292	.168	.323	-1.080	180	1101	-.251	.159	.286	-.832	180	1151	-.343	.176	.181	-.933
170	2810	-.316	.153	.182	-1.041	180	1102	-.239	.157	.296	-.766	180	1152	-.278	.178	.218	-.999
170	2811	-.306	.151	.199	-.966	180	1103	-.269	.134	.272	-.705	180	1153	-.169	.162	.377	-.745
170	2812	-.285	.157	.130	-.880	180	1104	-.290	.145	.185	-.830	180	1154	-.157	.170	.424	-.782
170	2813	-.245	.155	.249	-.849	180	1105	-.289	.146	.157	-.837	180	1155	-.305	.169	.163	-.864
170	2814	-.242	.160	.301	-.855	180	1106	-.245	.147	.253	-.802	180	1156	-.360	.167	.119	-1.227
170	2815	-.309	.171	.152	-.938	180	1107	-.235	.144	.267	-.749	180	1157	-.312	.174	.222	-1.334
170	2816	-.333	.176	.125	-.984	180	1108	-.223	.141	.268	-.730	180	1158	-.173	.150	.347	-.833
170	2817	-.315	.179	.222	-.917	180	1109	-.237	.132	.187	-.702	180	1159	-.103	.153	.537	-.949
170	2818	-.238	.174	.288	-.820	180	1110	-.287	.140	.113	-.809	180	1160	-.106	.161	.548	-.691
170	2819	-.235	.167	.242	-.857	180	1111	-.283	.146	.237	-.931	180	1161	-.066	.170	.520	-.711
170	2820	-.256	.178	.278	-.858	180	1112	-.282	.147	.181	-.962	180	1162	-.103	.177	.677	-.941
170	2821	-.268	.177	.287	-1.188	180	1113	-.247	.148	.187	-.796	180	1163	-.042	.129	.388	-.576
170	2822	-.265	.178	.310	-1.056	180	1114	-.222	.143	.232	-.788	180	1164	-.018	.137	.505	-.518
170	2823	-.144	.148	.482	-.746	180	1115	-.246	.145	.231	-.788	180	1165	-.029	.125	.371	-.506
170	2824	-.168	.161	.513	-.767	180	1116	-.230	.132	.256	-.734	180	1166	-.032	.137	.511	-.502
170	2901	.082	.133	.903	-.340	180	1117	-.274	.139	.241	-.750	180	1201	-.286	.147	.166	-1.008
170	2902	.129	.143	.742	-.289	180	1118	-.308	.145	.222	-.996	180	1202	-.248	.140	.202	-.908
170	2903	.107	.137	.605	-.416	180	1119	-.176	.128	.273	-.575	180	1203	-.288	.143	.127	-.895
170	2904	.120	.139	.625	-.414	180	1120	-.244	.134	.230	-.684	180	1204	-.309	.151	.186	-1.021
170	2905	.111	.145	.711	-.417	180	1121	-.176	.124	.255	-.598	180	1205	-.260	.150	.228	-.848
170	2906	.093	.138	.589	-.414	180	1122	-.191	.130	.218	-.662	180	1206	-.241	.147	.241	-.851
170	2907	.149	.145	.641	-.334	180	1123	-.190	.131	.182	-.723	180	1207	-.251	.136	.235	-.850
170	2908	.204	.176	.935	-.353	180	1124	-.273	.142	.130	-.929	180	1208	-.270	.159	.327	-1.079
170	2909	.034	.148	.388	-.577	180	1125	-.266	.148	.198	-.796	180	1209	-.263	.161	.337	-1.028
170	2910	.006	.150	.456	-.618	180	1126	-.183	.135	.254	-.692	180	1210	-.291	.144	.181	-1.009
170	2911	.114	.212	.861	-.561	180	1127	-.201	.132	.289	-.621	180	1211	-.248	.134	.198	-.833
170	2912	.030	.165	.750	-.686	180	1128	-.198	.131	.263	-.651	180	1212	-.292	.141	.174	-.855
170	2913	.027	.180	.592	-.836	180	1129	-.275	.140	.169	-.751	180	1213	-.286	.141	.195	-.835
170	2914	.349	.190	1.233	-.218	180	1130	-.208	.135	.221	-.753	180	1214	-.284	.143	.206	-1.011
170	2915	.112	.151	.757	-.707	180	1131	-.201	.133	.308	-.758	180	1215	-.202	.138	.157	-1.059
170	2916	.074	.151	.764	-.387	180	1132	-.190	.144	.282	-.828	180	1216	-.251	.092	.059	-.596
170	2917	.256	.181	1.053	-.229	180	1133	-.194	.142	.273	-.726	180	1217	-.177	.141	.246	-.773
170	2918	.101	.182	.698	-.872	180	1134	-.269	.147	.222	-.769	180	1218	-.261	.156	.187	-1.013

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	1219	194	151	257	94.2	180	1310	302	145	131	889	180	1401	360	172	254	-1.131
180	1220	222	133	223	77.9	180	1311	299	162	171	300	180	1402	375	186	169	-1.394
180	1221	211	129	222	65.7	180	1312	242	143	196	689	180	1403	323	169	241	-1.032
180	1222	286	141	145	90.2	180	1313	287	147	171	747	180	1404	478	187	119	-1.212
180	1223	219	142	213	51.2	180	1314	238	144	238	913	180	1405	364	205	154	-1.729
180	1224	216	152	305	95.3	180	1315	293	149	112	063	180	1406	575	207	219	-1.163
180	1225	231	147	206	91.3	180	1316	252	181	263	068	180	1407	402	220	261	-1.333
180	1226	302	149	159	90.8	180	1317	245	169	251	078	180	1408	503	226	072	-1.607
180	1227	215	141	237	84.5	180	1318	316	175	216	064	180	1409	479	218	076	-1.516
180	1228	206	151	266	014	180	1319	234	164	282	990	180	1410	294	166	216	-1.158
180	1229	214	160	269	043	180	1320	283	176	266	091	180	1411	235	169	270	-1.094
180	1230	331	171	137	182	180	1321	241	178	251	107	180	1412	381	197	173	-1.130
180	1231	265	145	258	88.8	180	1322	311	176	169	155	180	1413	566	270	292	-1.570
180	1232	267	147	237	77.8	180	1323	254	160	263	829	180	1414	576	250	300	-1.509
180	1233	296	168	212	020	180	1324	327	163	298	210	180	1415	303	222	357	-2.080
180	1234	303	182	179	133	180	1325	285	175	244	220	180	1416	495	220	345	-1.577
180	1235	325	181	175	84.4	180	1326	327	196	191	380	180	1417	295	278	717	-1.573
180	1236	299	178	212	75.5	180	1327	234	170	225	172	180	1418	499	228	228	-1.493
180	1237	295	159	234	38.8	180	1328	262	178	233	493	180	1419	514	286	307	-2.130
180	1238	329	172	231	75.5	180	1329	251	171	209	155	180	1420	332	237	432	-1.792
180	1239	303	182	234	22.2	180	1330	299	201	227	300	180	1421	316	228	474	-1.376
180	1240	358	191	334	214	180	1331	311	201	324	276	180	1422	458	295	364	-1.878
180	1241	242	179	350	160	180	1332	324	186	277	253	180	1423	522	282	412	-1.872
180	1242	233	182	326	88.8	180	1333	308	180	219	041	180	1424	516	274	151	-1.916
180	1243	242	168	280	079	180	1334	313	193	221	716	180	1425	332	259	351	-2.145
180	1244	246	193	456	37.9	180	1335	338	188	125	408	180	1426	436	238	275	-1.632
180	1245	184	198	420	076	180	1336	338	188	125	408	180	1427	436	283	385	-1.748
180	1246	212	195	418	070	180	1337	313	162	099	304	180	1428	539	288	478	-2.300
180	1247	114	153	497	68.9	180	1338	321	164	084	066	180	1429	522	255	555	-2.671
180	1248	117	158	480	033	180	1339	300	157	103	880	180	1430	331	222	338	-1.773
180	1249	174	176	481	55.5	180	1340	281	164	259	909	180	1431	310	233	338	-1.595
180	1250	120	142	379	50.0	180	1341	336	201	259	351	180	1432	436	285	429	-1.940
180	1251	110	146	309	66.1	180	1342	313	177	257	053	180	1433	558	257	332	-1.862
180	1252	163	183	275	06.6	180	1343	297	165	194	931	180	1434	518	254	429	-1.552
180	1253	137	172	448	83.5	180	1344	282	164	214	905	180	1435	310	229	280	-1.559
180	1254	107	149	375	93.5	180	1345	258	219	571	285	180	1436	288	210	325	-1.111
180	1255	070	138	425	66.6	180	1346	299	175	339	039	180	1437	436	284	266	-1.532
180	1256	050	135	552	10.0	180	1347	266	168	163	074	180	1438	550	244	200	-1.841
180	1257	130	154	286	21.0	180	1348	266	144	181	845	180	1439	557	244	161	-1.655
180	1258	101	137	301	95.5	180	1349	241	141	194	834	180	1440	336	187	349	-1.604
180	1259	114	147	331	83.3	180	1350	085	157	473	672	180	1441	222	214	342	-1.279
180	1301	288	168	314	134	180	1351	161	140	339	808	180	1442	359	290	401	-1.674
180	1302	262	145	247	94.1	180	1352	282	161	108	178	180	1443	546	266	224	-1.598
180	1303	262	146	233	46.6	180	1353	257	148	138	303	180	1444	522	252	209	-1.528
180	1304	327	150	228	40.0	180	1354	186	136	164	158	180	1445	128	139	276	-1.644
180	1305	302	152	179	014	180	1355	107	141	380	661	180	1446	064	132	379	-1.571
180	1306	313	137	186	95.4	180	1356	092	138	602	601	180	1447	025	155	555	-1.779
180	1307	298	135	172	91.1	180	1357	145	139	336	619	180	1448	267	181	498	-1.604
180	1308	252	131	207	83.9	180	1358	138	126	266	625	180	1449	347	256	466	-1.675
180	1309	239	135	165	86.6	180	1359	122	124	272	617	180	1450	059	121	372	-1.482



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	1451	.030	.119	.394	-.420	180	1542	.398	.235	1.181	-.377	180	1630	.394	.238	1.214	-.442
180	1452	.024	.125	.415	-.381	180	1543	.209	.164	1.934	-.518	180	1631	.443	.232	1.331	-.323
180	1453	.053	.132	.447	-.625	180	1544	.345	.186	1.093	-.286	180	1632	.353	.208	1.331	-.240
180	1454	.073	.139	.381	-.957	180	1545	.349	.185	1.140	-.327	180	1633	.127	.184	1.039	-.407
180	1455	.020	.105	.310	-.394	180	1546	.427	.207	1.557	-.186	180	1634	.105	.177	.896	-.645
180	1456	.034	.133	.513	-.422	180	1547	.447	.226	1.508	-.322	180	1635	.363	.239	1.374	-.420
180	1457	.071	.127	.573	-.380	180	1548	.422	.225	1.521	-.353	180	1636	.362	.229	1.382	-.447
180	1458	.084	.128	.631	-.330	180	1549	.192	.164	1.815	-.280	180	1637	.296	.198	1.233	-.268
180	1459	.058	.130	.601	-.369	180	1550	.294	.185	1.060	-.226	180	1638	.090	.174	.927	-.401
180	1501	.125	.138	.344	-.697	180	1551	.275	.185	1.945	-.231	180	1639	.065	.166	.686	-.567
180	1502	.066	.149	.576	-.327	180	1552	.290	.193	1.948	-.356	180	1640	.336	.225	1.165	-.719
180	1503	.174	.195	.925	-.395	180	1553	.282	.203	1.073	-.438	180	1641	.332	.210	1.069	-.644
180	1504	.260	.221	1.236	-.442	180	1554	.132	.143	1.987	-.401	180	1642	.310	.206	1.159	-.250
180	1505	.261	.232	1.233	-.460	180	1555	.180	.141	1.864	-.217	180	1643	.187	.199	.951	-.379
180	1506	.064	.174	.700	-.619	180	1556	.150	.133	1.673	-.296	180	1644	.006	.172	.637	-.559
180	1507	.164	.190	.995	-.469	180	1557	.215	.143	1.982	-.221	180	1701	.542	.263	1.522	-.620
180	1508	.178	.180	.858	-.344	180	1558	.122	.154	1.793	-.356	180	1702	.420	.232	1.332	-.432
180	1509	.344	.220	1.439	-.349	180	1559	.177	.156	1.060	-.312	180	1703	.325	.173	1.221	-.169
180	1510	.321	.243	1.396	-.400	180	1560	.146	.150	1.813	-.414	180	1704	.387	.253	1.302	-.462
180	1511	.262	.219	1.313	-.385	180	1561	.170	.142	1.710	-.380	180	1705	.392	.251	1.218	-.361
180	1512	.263	.216	1.367	-.360	180	1562	.133	.140	1.817	-.332	180	1706	.419	.243	1.222	-.406
180	1513	.198	.198	.935	-.433	180	1601	.220	.290	1.296	-.667	180	1707	.365	.212	1.304	-.201
180	1514	.476	.231	1.380	-.320	180	1602	.273	.270	1.408	-.642	180	1708	.216	.208	1.231	-.991
180	1515	.402	.217	1.323	-.324	180	1603	.194	.225	1.411	-.486	180	1709	.002	.319	1.569	-.081
180	1516	.437	.224	1.145	-.230	180	1604	.027	.214	1.194	-.797	180	1710	.069	.323	1.231	-.123
180	1517	.419	.239	1.212	-.277	180	1605	.206	.213	1.941	-.763	180	1711	.273	.185	1.535	-.949
180	1518	.435	.245	1.424	-.350	180	1606	.215	.190	1.863	-.508	180	1712	.291	.186	1.366	-.969
180	1519	.343	.211	1.043	-.383	180	1607	.180	.194	1.051	-.371	180	1713	.361	.202	1.567	-.130
180	1520	.389	.214	1.058	-.286	180	1608	.089	.197	1.990	-.464	180	1714	.292	.215	1.678	-.347
180	1521	.430	.220	1.250	-.170	180	1609	.001	.175	1.800	-.653	180	1715	.217	.334	1.994	-.288
180	1522	.485	.229	1.309	-.127	180	1610	.536	.274	1.564	-.491	180	1716	.431	.240	1.315	-.615
180	1523	.500	.254	1.378	-.439	180	1611	.537	.253	1.556	-.171	180	1717	.427	.241	1.388	-.184
180	1524	.484	.247	1.389	-.368	180	1612	.426	.238	1.436	-.213	180	1718	.391	.249	1.574	-.218
180	1525	.321	.207	1.107	-.397	180	1613	.203	.218	1.964	-.369	180	1719	.328	.278	1.794	-.326
180	1526	.453	.220	1.183	-.271	180	1614	.051	.200	1.827	-.542	180	1720	.076	.329	1.203	-.304
180	1527	.465	.218	1.194	-.267	180	1615	.500	.292	1.370	-.580	180	1721	.337	.215	1.555	-.061
180	1528	.535	.231	1.338	-.105	180	1616	.501	.270	1.418	-.555	180	1722	.355	.215	1.569	-.228
180	1529	.560	.253	1.419	-.307	180	1617	.405	.254	1.319	-.512	180	1723	.357	.246	1.710	-.409
180	1530	.498	.238	1.412	-.230	180	1618	.148	.215	1.036	-.620	180	1724	.296	.299	1.055	-.231
180	1531	.304	.194	1.065	-.199	180	1619	.042	.199	1.791	-.580	180	1725	.215	.264	.828	-.117
180	1532	.423	.205	1.185	-.094	180	1620	.482	.256	1.326	-.527	180	1726	.347	.194	1.359	-.153
180	1533	.425	.205	1.181	-.115	180	1621	.487	.246	1.305	-.585	180	1727	.400	.207	1.175	-.143
180	1534	.496	.219	1.260	-.100	180	1622	.412	.216	1.219	-.280	180	1728	.413	.191	1.331	-.411
180	1535	.452	.260	1.397	-.491	180	1623	.174	.180	1.824	-.343	180	1729	.362	.332	1.709	-.876
180	1536	.440	.251	1.351	-.367	180	1624	.024	.206	1.883	-.695	180	1730	.167	.277	.707	-.103
180	1537	.173	.176	1.124	-.303	180	1625	.430	.266	1.299	-.583	180	1731	.385	.183	1.299	-.070
180	1538	.361	.199	1.470	-.217	180	1626	.444	.251	1.366	-.632	180	1732	.370	.187	1.190	-.322
180	1539	.369	.197	1.460	-.202	180	1627	.359	.211	1.244	-.236	180	1733	.377	.214	1.565	-.359
180	1540	.405	.217	1.133	-.318	180	1628	.144	.183	1.825	-.395	180	1734	.304	.244	1.511	-.505
180	1541	.423	.240	1.196	-.402	180	1629	.027	.180	1.669	-.647	180	1735	.271	.261	1.806	-.135

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	1736	366	169	239	-1.010	180	1842	439	209	206	-1.183	180	2310	151	131	598	-510
180	1737	367	170	256	-1.040	180	1843	397	165	119	-1.155	180	2311	197	150	705	-283
180	1738	361	199	463	-1.338	180	1844	380	188	163	-1.317	180	2312	139	143	624	-354
180	1739	310	249	660	-1.647	180	1845	350	183	338	-1.289	180	2313	270	142	756	-258
180	1740	264	248	638	-1.243	180	1846	332	180	294	-1.005	180	2314	222	133	655	-269
180	1741	424	202	191	-1.161	180	1847	344	179	289	-1.131	180	2315	132	141	654	-445
180	1742	366	186	253	-1.090	180	1848	320	171	278	-1.029	180	2316	012	151	500	-518
180	1743	320	183	421	-1.251	180	1849	302	167	229	-1.983	180	2317	054	136	532	-474
180	1744	304	197	425	-1.579	180	1850	136	132	309	-1.700	180	2318	069	139	539	-451
180	1801	364	202	184	-1.252	180	1851	134	149	435	-1.773	180	2319	113	155	645	-396
180	1802	328	186	176	-1.252	180	1852	057	147	507	-1.553	180	2320	140	159	806	-392
180	1803	275	175	274	-1.270	180	1853	082	151	468	-1.725	180	2321	146	147	579	-335
180	1804	278	167	262	-1.945	180	1854	095	158	469	-1.861	180	2322	132	146	600	-418
180	1805	354	181	231	-1.310	180	1901	305	149	156	-1.856	180	2401	221	144	717	-375
180	1806	337	179	162	-1.202	180	1902	356	180	211	-1.184	180	2402	232	155	740	-289
180	1807	297	172	186	-1.308	180	1903	264	148	153	-1.057	180	2403	220	167	779	-382
180	1808	281	163	205	-1.960	180	1904	449	209	119	-1.460	180	2404	197	172	760	-402
180	1809	274	173	326	-1.273	180	1905	307	139	110	-1.918	180	2405	198	150	696	-340
180	1810	348	204	186	-1.307	180	1906	359	179	184	-1.786	180	2406	215	156	712	-339
180	1811	306	191	266	-1.150	180	1907	390	175	094	-1.424	180	2407	205	176	698	-387
180	1812	246	149	235	-1.838	180	1908	367	175	078	-1.454	180	2408	160	203	736	-624
180	1813	270	167	221	-1.070	180	1910	309	140	082	-1.915	180	2409	160	196	973	-519
180	1814	274	171	227	-1.052	180	1911	477	225	1.370	-1.130	180	2410	205	135	656	-293
180	1815	272	180	300	-1.239	180	1912	276	136	113	-1.178	180	2411	113	149	738	-356
180	1816	247	169	228	-1.097	180	1913	469	248	1.293	-1.279	180	2412	110	160	717	-429
180	1817	300	168	183	-1.088	180	1914	341	174	143	-1.156	180	2413	097	182	669	-768
180	1818	229	158	249	-1.871	180	1915	331	189	318	-1.286	180	2414	055	199	717	-905
180	1819	217	150	292	-1.974	180	1916	331	131	240	-1.918	180	2415	081	140	527	-483
180	1820	270	182	465	-1.125	180	1917	451	266	1.584	-1.225	180	2416	062	149	647	-524
180	1821	328	167	239	-1.008	180	1918	451	177	056	-1.255	180	2417	022	153	671	-560
180	1822	228	164	319	-1.960	180	1919	226	146	242	-1.670	180	2418	008	190	1.002	-765
180	1823	235	161	254	-1.114	180	1920	214	232	559	-1.021	180	2419	083	179	663	-662
180	1824	241	174	249	-1.501	180	1921	315	178	262	-1.201	180	2420	101	139	526	-424
180	1825	356	191	281	-1.144	180	1922	355	196	228	-1.427	180	2421	096	138	529	-431
180	1826	256	176	269	-1.017	180	1923	360	187	155	-1.377	180	2422	080	134	482	-403
180	1827	244	156	226	-1.090	180	1925	299	246	553	-1.183	180	2423	059	134	519	-402
180	1828	254	164	338	-1.205	180	1926	528	298	380	-1.688	180	2424	037	134	492	-540
180	1829	345	190	300	-1.109	180	1927	341	197	545	-1.191	180	2425	059	126	498	-455
180	1830	306	176	266	-1.115	180	1928	319	181	290	-1.242	180	2426	000	166	606	-973
180	1831	295	168	202	-1.955	180	1929	371	181	389	-1.193	180	2427	120	120	466	-668
180	1832	277	167	166	-1.052	180	1930	327	182	259	-1.186	180	2428	198	120	725	-159
180	1833	381	192	084	-1.283	180	2330	341	195	1.158	-1.286	180	2429	189	120	644	-224
180	1834	359	190	125	-1.337	180	2331	318	202	1.140	-1.448	180	2430	203	119	635	-181
180	1835	401	190	178	-1.468	180	2332	281	186	1.021	-1.422	180	2431	197	122	630	-199
180	1836	359	180	224	-1.524	180	2333	227	162	870	-1.407	180	2432	209	122	607	-182
180	1837	343	130	002	-1.879	180	2334	165	146	632	-1.499	180	2433	201	111	606	-165
180	1838	353	184	251	-1.284	180	2335	296	158	942	-1.155	180	2434	171	110	545	-294
180	1839	378	211	175	-1.472	180	2336	289	151	904	-1.167	180	2435	162	115	555	-365
180	1840	473	229	185	-1.580	180	2337	146	135	661	-1.372	180	2501	324	170	1.058	-175
180	1841	460	221	162	-1.455	180	2338	135	135	593	-1.443	180	2502	381	194	1.401	-149



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	22503	.386	.206	1.365	-.409	180	22624	.004	.138	.544	-.419	180	28006	-.296	.182	.226	-1.316
180	22504	.361	.169	1.244	-.106	180	22625	.090	.151	.632	-.487	180	28007	-.288	.172	.184	-1.241
180	22505	.380	.172	1.365	-.080	180	22626	.094	.152	.641	-.566	180	28008	-.215	.159	.271	-1.912
180	22506	.387	.173	1.098	-.077	180	22627	.124	.145	.731	-.312	180	28009	-.166	.162	.355	-.866
180	22507	.375	.176	1.187	-.221	180	22628	.099	.143	.673	-.341	180	2810	-.388	.173	.124	-1.263
180	22508	.371	.175	1.155	-.124	180	22629	.043	.146	.652	-.446	180	2811	-.376	.170	.132	-1.316
180	22509	.342	.170	1.129	-.264	180	22701	.016	.197	1.083	-.755	180	2812	-.354	.160	.164	-1.062
180	22510	.333	.170	1.025	-.249	180	22702	.075	.188	1.037	-.732	180	2813	-.317	.158	.213	-1.913
180	22511	.292	.186	.911	-.397	180	22703	.028	.247	.731	-.568	180	2814	-.315	.163	.214	-1.906
180	22512	.274	.200	1.012	-.308	180	22704	.250	.295	1.458	-.430	180	2815	-.366	.192	.282	-1.623
180	22513	.339	.152	.899	-.108	180	22705	.220	.311	.579	-.779	180	2816	-.390	.196	.246	-1.348
180	22514	.244	.171	.952	-.268	180	22706	.047	.141	.809	-.543	180	2817	-.359	.183	.220	-1.008
180	22515	.188	.166	.818	-.277	180	22707	.039	.154	.684	-.603	180	2818	-.275	.172	.243	-.824
180	22516	.167	.154	.766	-.484	180	22708	.135	.190	.527	-.708	180	2819	-.248	.163	.207	-1.016
180	22517	.098	.166	.817	-.716	180	22709	.092	.167	.786	-.514	180	2820	-.310	.176	.217	-1.312
180	22518	.091	.169	.794	-.679	180	22710	.203	.160	.709	-.466	180	2821	-.301	.169	.174	-1.081
180	22519	.100	.152	.813	-.638	180	22711	.290	.186	1.068	-.269	180	2822	-.333	.172	.283	-1.057
180	22520	.164	.158	.781	-.375	180	22712	.169	.155	.826	-.320	180	2823	-.192	.142	.264	-1.695
180	22521	.073	.129	.590	-.392	180	22713	.096	.182	.508	-.765	180	2824	-.215	.154	.260	-1.710
180	22522	.101	.126	.612	-.356	180	22714	.099	.141	.294	-.667	180	2901	.100	.147	1.335	-1.359
180	22523	.097	.119	.587	-.356	180	22715	.033	.182	.605	-.689	180	2902	-.185	.173	.968	-1.323
180	22524	.068	.121	.538	-.401	180	22716	.072	.174	.758	-.601	180	2903	.128	.158	.819	-1.384
180	22525	.066	.119	.574	-.422	180	22717	.113	.171	.825	-.524	180	2904	.157	.154	.751	-1.352
180	22526	.145	.142	.749	-.304	180	22718	.061	.153	.539	-.787	180	2905	.173	.162	.959	-1.371
180	22527	.165	.136	.680	-.261	180	22719	.071	.138	.398	-.637	180	2906	.132	.156	.789	-1.378
180	22528	.158	.136	.641	-.267	180	22720	.069	.138	.400	-.637	180	2907	.225	.166	.828	-1.400
180	22529	.156	.134	.660	-.246	180	22721	.084	.149	.612	-.587	180	2908	.304	.187	1.018	-1.190
180	22530	.137	.129	.588	-.296	180	22722	.047	.159	.543	-.644	180	2909	.123	.144	.570	-1.558
180	22601	.351	.225	1.402	-.227	180	22723	.066	.158	.605	-.569	180	2910	.218	.157	.820	-1.397
180	22602	.353	.216	1.391	-.151	180	22724	.050	.148	.480	-.516	180	2911	.314	.193	1.086	-1.394
180	22603	.281	.183	1.112	-.366	180	22725	.043	.148	.457	-.748	180	2912	.181	.172	.863	-1.369
180	22604	.180	.180	1.135	-.480	180	22726	.059	.151	.436	-.805	180	2913	.173	.158	.906	-1.467
180	22605	.268	.235	1.228	-.921	180	22727	.019	.150	.472	-.747	180	2914	.318	.181	1.208	-1.115
180	22606	.299	.199	1.115	-.619	180	22728	.025	.144	.514	-.492	180	2915	.232	.147	.828	-1.210
180	22607	.288	.187	1.104	-.694	180	22729	.010	.143	.636	-.425	180	2916	.252	.145	.861	-1.301
180	22608	.238	.180	.947	-.658	180	22730	.053	.144	.611	-.565	180	2917	.297	.189	1.277	-1.222
180	22609	.169	.155	.941	-.372	180	22731	.037	.157	.418	-.691	180	2918	.247	.182	1.038	-1.521
180	22610	.151	.205	.936	-.558	180	22732	.031	.169	.572	-.054	180	2919	.231	.148	.876	-1.342
180	22611	.181	.195	.931	-.521	180	22733	.090	.155	.606	-.397	180	2920	.541	.285	.324	-1.444
180	22612	.168	.176	.990	-.280	180	22734	.070	.149	.572	-.421	180	2921	.167	.310	.999	-1.903
180	22613	.090	.171	.849	-.431	180	22735	.074	.141	.574	-.387	180	2922	.256	.214	.524	-1.216
180	22615	.109	.208	.968	-.601	180	22736	.003	.137	.474	-.460	180	2923	.273	.161	.940	-1.366
180	22616	.131	.203	.852	-.704	180	22737	.169	.157	.618	-.765	180	2924	.077	.167	.494	-1.744
180	22617	.151	.168	.924	-.352	180	22738	.002	.139	.497	-.423	180	2925	.499	.328	.664	-1.241
180	22618	.076	.152	.632	-.496	180	22739	.029	.137	.422	-.528	180	2926	.002	.176	.724	-1.510
180	22619	.01	.148	.546	-.580	180	2801	.673	.413	.164	-.792	180	2927	.097	.182	.937	-1.472
180	22620	.046	.137	.559	-.605	180	2802	.557	.278	.275	-.679	180	2928	.143	.173	1.021	-1.441
180	22621	.066	.135	.518	-.413	180	2803	.347	.228	.439	-.282	180	2930	.085	.137	.409	-1.538
180	22622	.080	.132	.497	-.340	180	2804	.257	.188	.381	-.023	180	2931	.001	.119	.462	-1.402
180	22623	.053	.133	.500	-.364	180	2805	.315	.184	.229	-.266	180	2932	.090	.126	.321	-1.679

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	29333	-.318	.130	.068	-.822	190	1148	-.223	.157	.277	-.906	190	1232	-.228	.145	.263	-.100
190	29334	-.359	.184	.250	-1.175	190	1149	-.276	.153	.186	-1.346	190	1233	-.255	.159	.292	-1.552
190	29335	-.077	.123	.320	-.556	190	1150	-.256	.148	.251	-.864	190	1234	-.290	.177	.171	-1.453
190	11061	-.283	.143	.193	-.778	190	1151	-.283	.156	.389	-.909	190	1235	-.306	.191	.179	-1.388
190	11022	-.275	.142	.180	-.735	190	1152	-.215	.142	.247	-.885	190	1236	-.279	.159	.181	-1.079
190	11033	-.192	.141	.264	-.642	190	1153	-.158	.137	.420	-.655	190	1237	-.250	.149	.291	-.854
190	11044	-.195	.130	.297	-.627	190	1154	-.156	.140	.363	-.702	190	1238	-.249	.158	.283	-1.115
190	11055	-.189	.130	.260	-.661	190	1155	-.229	.143	.252	-.729	190	1239	-.251	.163	.292	-1.137
190	11066	-.259	.134	.151	-.823	190	1156	-.289	.131	.193	-.931	190	1240	-.233	.169	.290	-.977
190	11077	-.251	.132	.146	-.779	190	1157	-.283	.158	.166	-1.147	190	1241	-.240	.163	.200	-.937
190	11088	-.247	.131	.142	-.776	190	1158	-.161	.138	.260	-.719	190	1242	-.225	.162	.234	-.995
190	11099	-.132	.117	.240	-.586	190	1159	-.108	.138	.470	-.624	190	1243	-.236	.187	.298	-1.335
190	11100	-.190	.125	.240	-.599	190	1160	-.118	.157	.395	-.742	190	1244	-.212	.165	.268	-1.090
190	11111	-.201	.142	.242	-.714	190	1161	-.135	.138	.351	-.612	190	1245	-.234	.203	.417	-1.109
190	11112	-.196	.144	.251	-.704	190	1162	-.153	.146	.339	-.672	190	1246	-.256	.182	.265	-1.141
190	11113	-.281	.141	.199	-.934	190	1163	-.060	.114	.422	-.431	190	1247	-.186	.172	.323	-1.037
190	11114	-.260	.135	.205	-.752	190	1164	-.005	.125	.460	-.372	190	1248	-.168	.172	.325	-1.340
190	11115	-.276	.134	.202	-.734	190	1165	-.048	.114	.353	-.392	190	1249	-.218	.190	.348	-.987
190	11116	-.139	.126	.287	-.622	190	1166	-.005	.124	.455	-.347	190	1250	-.112	.129	.414	-.617
190	11117	-.191	.134	.291	-.679	190	1201	-.188	.139	.326	-.696	190	1251	-.103	.132	.420	-.583
190	11118	-.206	.132	.289	-.839	190	1202	-.146	.134	.332	-.636	190	1252	-.154	.143	.231	-1.258
190	11119	-.212	.127	.297	-.596	190	1203	-.195	.139	.277	-.738	190	1253	-.123	.146	.357	-1.208
190	11200	-.292	.133	.251	-.724	190	1204	-.194	.141	.219	-.863	190	1254	-.114	.138	.401	-.620
190	11211	-.214	.125	.299	-.814	190	1205	-.282	.148	.190	-.790	190	1255	-.071	.125	.303	-.536
190	11222	-.221	.130	.204	-.700	190	1206	-.272	.147	.203	-.757	190	1256	-.039	.124	.433	-.923
190	11233	-.214	.131	.194	-.635	190	1207	-.267	.149	.161	-.882	190	1257	-.137	.140	.363	-.939
190	11234	-.304	.142	.118	-.818	190	1208	-.281	.155	.284	-.978	190	1258	-.098	.153	.385	-.681
190	11235	-.281	.139	.163	-.832	190	1209	-.281	.157	.285	-1.269	190	1259	-.107	.129	.341	-.630
190	11236	-.190	.125	.201	-.653	190	1210	-.183	.132	.226	-1.027	190	1301	-.318	.156	.242	-.684
190	11237	-.222	.130	.238	-.716	190	1211	-.140	.125	.240	-.926	190	1302	-.300	.160	.204	-1.051
190	11238	-.213	.128	.237	-.665	190	1212	-.183	.132	.194	-.947	190	1303	-.318	.170	.155	-1.195
190	11239	-.300	.138	.180	-.867	190	1213	-.193	.144	.276	-.750	190	1304	-.219	.155	.343	-1.141
190	11300	-.225	.133	.222	-.816	190	1214	-.187	.144	.279	-.745	190	1305	-.219	.148	.316	-.886
190	11311	-.214	.136	.230	-.686	190	1215	-.242	.154	.194	-1.139	190	1306	-.210	.144	.355	-.728
190	11312	-.212	.127	.184	-.705	190	1216	-.251	.101	.057	-.714	190	1307	-.197	.143	.377	-.684
190	11313	-.209	.125	.176	-.707	190	1217	-.203	.139	.212	-.837	190	1308	-.156	.139	.411	-.634
190	11314	-.295	.131	.110	-.868	190	1218	-.290	.150	.165	-.859	190	1309	-.159	.134	.347	-.660
190	11315	-.205	.123	.167	-.742	190	1219	-.212	.143	.227	-.716	190	1310	-.218	.143	.315	-.772
190	11316	-.222	.129	.175	-.739	190	1220	-.240	.144	.145	-1.540	190	1311	-.213	.150	.215	-1.492
190	11317	-.230	.148	.266	-.868	190	1221	-.226	.137	.152	-1.055	190	1312	-.159	.134	.236	-.882
190	11318	-.210	.140	.294	-.821	190	1222	-.307	.145	.094	-1.414	190	1313	-.208	.138	.203	-.905
190	11319	-.304	.150	.215	-.865	190	1223	-.283	.139	.186	-1.144	190	1314	-.278	.148	.175	-.847
190	11400	-.213	.140	.239	-.686	190	1224	-.285	.148	.253	-1.099	190	1315	-.198	.134	.319	-1.084
190	11411	-.217	.130	.190	-.705	190	1225	-.272	.167	.152	-1.308	190	1316	-.268	.156	.263	-1.246
190	11422	-.230	.137	.207	-.770	190	1226	-.356	.171	.097	-1.179	190	1317	-.256	.145	.276	-.913
190	11433	-.243	.139	.258	-2.266	190	1227	-.251	.153	.176	-.990	190	1318	-.338	.151	.254	-1.049
190	11444	-.225	.128	.180	-.688	190	1228	-.244	.139	.173	-.919	190	1319	-.246	.140	.314	-.898
190	11455	-.226	.130	.189	-.745	190	1229	-.246	.143	.165	-.991	190	1320	-.248	.154	.278	-.873
190	11466	-.215	.125	.211	-.668	190	1230	-.386	.181	.089	-1.413	190	1321	-.278	.167	.255	-1.103
190	11477	-.222	.141	.276	-.730	190	1231	-.243	.147	.213	-.860	190	1322	-.360	.165	.201	-1.125

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	1323	.266	.153	.270	-1.129	190	1414	-.488	.292	.722	-1.389	190	1505	.177	.228	1.041	-4.75
190	1324	-.244	.150	.287	-1.106	190	1415	-.217	.175	.278	-1.140	190	1506	.196	.185	.886	-3.51
190	1325	-.244	.160	.357	-1.005	190	1416	-.188	.191	.362	-1.120	190	1507	.283	.197	1.038	-2.68
190	1326	-.273	.173	.102	-1.262	190	1417	-.259	.306	.657	-1.336	190	1508	.320	.192	1.027	-2.32
190	1327	-.270	.149	.176	-1.085	190	1418	-.450	.327	.697	-1.889	190	1509	.334	.235	1.262	-3.73
190	1328	-.250	.149	.166	-.924	190	1419	-.602	.377	.164	-2.975	190	1510	.308	.237	1.222	-3.86
190	1329	-.236	.145	.180	-.867	190	1420	-.221	.193	.379	-1.416	190	1511	.280	.227	1.140	-3.37
190	1330	-.253	.163	.280	-1.013	190	1421	-.186	.216	.400	-1.275	190	1512	.279	.228	1.165	-3.39
190	1331	-.265	.173	.339	-1.148	190	1422	-.252	.312	.565	-1.492	190	1513	.345	.193	.982	-4.27
190	1332	-.273	.164	.260	-1.401	190	1423	-.483	.280	.717	-1.781	190	1514	.601	.221	1.314	-1.16
190	1333	-.263	.161	.253	-1.168	190	1424	-.485	.263	.433	-1.685	190	1515	.539	.215	1.263	-1.84
190	1334	-.265	.159	.207	-1.162	190	1425	-.211	.185	.303	-1.232	190	1516	.461	.243	1.284	-2.85
190	1335	-.277	.174	.259	-.963	190	1426	-.211	.218	.510	-1.462	190	1517	.460	.250	1.367	-3.07
190	1336	-.282	.158	.161	-1.086	190	1427	-.314	.316	.519	-1.950	190	1518	.449	.277	1.360	-4.04
190	1337	-.288	.143	.176	-.975	190	1428	-.530	.292	.744	-1.882	190	1519	.393	.221	1.312	-2.00
190	1338	-.289	.134	.137	-.980	190	1429	-.274	.274	.591	-1.969	190	1520	.447	.227	1.319	-1.24
190	1339	-.267	.142	.129	-.916	190	1430	-.253	.189	.299	-1.409	190	1521	.481	.227	1.228	-1.51
190	1340	-.244	.140	.175	-.803	190	1431	-.222	.217	.407	-1.403	190	1522	.526	.234	1.267	-.888
190	1341	-.256	.160	.207	-1.386	190	1432	-.372	.341	.542	-1.975	190	1523	.544	.249	1.307	-3.62
190	1342	-.289	.155	.163	-1.273	190	1433	-.545	.305	.720	-1.705	190	1524	.533	.246	1.283	-3.84
190	1344	-.276	.149	.136	-.839	190	1434	-.530	.283	.550	-1.605	190	1525	.370	.194	1.268	-1.75
190	1345	-.261	.148	.175	-.880	190	1435	-.216	.167	.296	-.979	190	1526	.464	.202	1.182	-1.04
190	1346	-.294	.175	.247	-1.141	190	1436	-.158	.159	.254	-.842	190	1527	.488	.205	1.221	-.91
190	1347	-.274	.158	.154	-1.102	190	1437	-.302	.274	.445	-1.405	190	1528	.541	.218	1.279	-.078
190	1348	-.274	.151	.202	-1.015	190	1438	-.465	.262	.508	-1.678	190	1529	.573	.224	1.347	-1.21
190	1349	-.266	.141	.193	-.916	190	1439	-.455	.230	.302	-1.519	190	1530	.550	.237	1.313	-1.58
190	1350	-.245	.140	.215	-.799	190	1440	-.196	.152	.372	-.939	190	1531	.303	.191	1.180	-2.76
190	1351	-.071	.143	.663	-.558	190	1441	-.148	.159	.313	-1.074	190	1532	.419	.204	1.322	-1.60
190	1352	-.312	.130	.313	-.621	190	1442	-.220	.247	.406	-1.863	190	1533	.430	.206	1.239	-1.29
190	1353	-.229	.155	.123	-1.205	190	1443	-.417	.267	.364	-1.991	190	1534	.492	.217	1.391	-1.05
190	1354	-.222	.143	.130	-.919	190	1444	-.399	.255	.309	-2.102	190	1535	.500	.215	1.489	-1.44
190	1355	-.222	.132	.183	-.822	190	1445	-.115	.129	.264	-.658	190	1536	.480	.215	1.430	-1.18
190	1356	-.085	.123	.323	-.520	190	1446	-.066	.124	.313	-.502	190	1537	.198	.175	.836	-4.79
190	1357	-.080	.153	.473	-.622	190	1447	-.024	.146	.400	-.706	190	1538	.384	.204	1.078	-2.80
190	1358	-.140	.151	.358	-.772	190	1448	-.230	.223	.407	-1.295	190	1539	.403	.204	1.091	-2.33
190	1359	-.148	.138	.270	-.580	190	1449	-.283	.221	.346	-1.294	190	1540	.448	.226	1.340	-2.21
190	1360	-.134	.133	.286	-.554	190	1450	-.047	.127	.380	-.471	190	1541	.472	.231	1.324	-1.85
190	1401	-.243	.176	.407	-1.123	190	1451	-.024	.124	.363	-.429	190	1542	.440	.232	1.347	-2.00
190	1402	-.255	.192	.517	-1.537	190	1452	-.025	.125	.418	-.414	190	1543	.208	.162	1.019	-2.79
190	1403	-.255	.173	.615	-1.197	190	1453	-.055	.137	.476	-.704	190	1544	.318	.185	1.206	-2.56
190	1404	-.382	.205	.580	-1.679	190	1454	-.072	.146	.463	-.928	190	1545	.331	.183	1.181	-2.12
190	1405	-.172	.171	.479	-1.255	190	1455	-.030	.102	.304	-.419	190	1546	.406	.206	1.252	-1.89
190	1406	-.169	.192	.431	-1.101	190	1456	-.023	.125	.460	-.330	190	1547	.428	.214	1.213	-1.98
190	1407	-.214	.225	.441	-1.158	190	1457	-.078	.131	.592	-.354	190	1548	.398	.218	1.287	-2.32
190	1408	-.365	.219	.454	-1.323	190	1458	-.091	.134	.567	-.369	190	1549	.196	.166	.881	-3.25
190	1409	-.400	.230	.489	-1.588	190	1459	-.064	.135	.588	-.384	190	1550	.310	.183	.991	-1.89
190	1410	-.154	.132	.272	-.770	190	1501	-.002	.149	.445	-.516	190	1551	.304	.185	.992	-1.90
190	1411	-.065	.140	.351	-.793	190	1502	-.128	.165	.632	-.405	190	1552	.337	.193	1.034	-1.70
190	1412	-.159	.206	.300	-.969	190	1503	-.175	.208	.918	-.443	190	1553	.304	.193	1.147	-2.79
190	1413	-.433	.352	.635	-1.455	190	1504	-.218	.220	1.054	-.453	190	1554	.133	.159	.865	-4.34

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	1555	.175	.161	.932	-.341	190	1643	-.137	.171	.749	-.366	190	1805	-.330	.179	.170	-1.475
190	1555	.150	.151	.864	-.311	190	1644	-.013	.143	.765	-.487	190	1806	-.312	.173	.198	-1.435
190	1555	.217	.160	.840	-.262	190	1701	-.472	.212	.310	-1.460	190	1807	-.285	.161	.187	-1.366
190	1558	.094	.153	.709	-.441	190	1702	-.405	.203	.151	-1.172	190	1808	-.279	.153	.176	-1.023
190	1559	.147	.153	.785	-.382	190	1703	-.276	.165	.266	-.914	190	1809	-.290	.154	.218	-1.073
190	1560	.141	.148	.723	-.280	190	1704	-.457	.233	.152	-1.395	190	1810	-.326	.175	.289	-1.186
190	1561	.164	.141	.680	-.260	190	1705	-.452	.216	.059	-1.632	190	1811	-.302	.168	.291	-1.451
190	1562	.137	.149	.715	-.358	190	1706	-.475	.240	.136	-1.498	190	1812	-.285	.149	.223	-.936
190	1601	-.007	.285	1.091	-.972	190	1707	-.446	.216	.146	-1.317	190	1813	-.296	.143	.153	-.884
190	1602	-.057	.268	1.154	-.759	190	1708	-.363	.187	.411	-1.013	190	1814	-.299	.150	.138	-1.113
190	1603	-.053	.205	.864	-.547	190	1709	-.228	.221	.803	-.824	190	1815	-.268	.159	.191	-.908
190	1604	-.140	.185	.511	-.766	190	1710	-.175	.238	.910	-.844	190	1816	-.242	.151	.182	-.803
190	1605	.189	.252	1.063	-.560	190	1711	-.367	.159	.071	-1.231	190	1817	-.314	.155	.152	-.876
190	1606	.222	.208	.926	-.529	190	1712	-.376	.165	.071	-1.385	190	1818	-.242	.148	.224	-.990
190	1607	.191	.177	.904	-.474	190	1713	-.408	.181	.058	-1.609	190	1819	-.257	.153	.274	-1.281
190	1608	-.079	.170	.750	-.544	190	1714	-.278	.163	.205	-.877	190	1820	-.277	.167	.200	-1.098
190	1609	-.017	.155	.553	-.553	190	1715	-.344	.235	.797	-1.315	190	1821	-.352	.160	.085	-1.146
190	1610	.302	.296	1.162	-.847	190	1716	-.398	.211	.083	-1.306	190	1822	-.251	.156	.182	-1.177
190	1611	.326	.265	1.132	-.825	190	1717	-.416	.216	.120	-1.401	190	1823	-.241	.157	.215	-1.174
190	1612	.239	.208	.976	-.459	190	1718	-.396	.214	.365	-1.340	190	1824	-.239	.162	.225	-1.085
190	1613	.067	.183	.778	-.481	190	1719	-.367	.208	.614	-1.277	190	1825	-.268	.180	.155	-1.256
190	1614	-.086	.163	.499	-.662	190	1720	-.258	.242	.740	-1.153	190	1826	-.264	.165	.239	-.978
190	1615	.383	.314	1.576	-.760	190	1721	-.330	.179	.307	-1.060	190	1827	-.256	.159	.290	-1.121
190	1616	.403	.282	1.584	-.636	190	1722	-.327	.178	.311	-1.032	190	1828	-.262	.166	.237	-1.357
190	1617	.304	.239	1.258	-.659	190	1723	-.362	.181	.168	-1.188	190	1829	-.360	.191	.172	-1.998
190	1618	.056	.194	.855	-.776	190	1724	-.380	.192	.256	-1.099	190	1830	-.289	.174	.272	-1.152
190	1619	.100	.187	.722	-.766	190	1725	-.334	.190	.648	-1.323	190	1831	-.285	.158	.218	-.923
190	1620	.382	.283	1.369	-.625	190	1726	-.351	.174	.144	-1.162	190	1832	-.270	.154	.234	-.958
190	1621	.396	.262	1.321	-.831	190	1727	-.352	.190	.112	-1.199	190	1833	-.387	.184	.212	-1.447
190	1622	.332	.200	1.140	-.315	190	1728	-.366	.194	.106	-1.276	190	1834	-.305	.180	.259	-1.419
190	1623	.102	.171	.718	-.436	190	1729	-.338	.246	.287	-2.246	190	1835	-.343	.168	.138	-1.216
190	1624	-.043	.161	.529	-.595	190	1730	-.299	.206	1.047	-1.197	190	1836	-.294	.149	.226	-.882
190	1625	.325	.269	1.224	-.976	190	1731	-.350	.161	.123	-.951	190	1837	-.279	.155	.065	-.687
190	1626	.352	.239	1.218	-.804	190	1732	-.355	.157	.188	-1.137	190	1838	-.300	.166	.148	-.980
190	1627	.277	.213	1.216	-.890	190	1733	-.359	.170	.496	-1.417	190	1839	-.303	.171	.193	-1.550
190	1628	.059	.176	.776	-.606	190	1734	-.345	.181	.969	-1.264	190	1840	-.350	.165	.083	-1.228
190	1629	.296	.166	.561	-.713	190	1735	-.393	.208	.394	-1.642	190	1841	-.335	.161	.095	-1.121
190	1630	.293	.246	1.242	-.702	190	1736	-.345	.148	.114	-.891	190	1842	-.331	.162	.056	-1.252
190	1631	.338	.231	1.129	-.655	190	1737	-.338	.148	.121	-.919	190	1843	-.340	.164	.169	-1.019
190	1632	.248	.177	.965	-.301	190	1738	-.352	.162	.173	-1.005	190	1844	-.320	.166	.132	-1.067
190	1633	.043	.143	.580	-.456	190	1739	-.347	.188	.422	-1.177	190	1845	-.328	.164	.153	-1.070
190	1634	.160	.138	.435	-.644	190	1740	-.321	.184	.431	-1.011	190	1846	-.312	.157	.182	-.890
190	1635	.274	.236	1.169	-.548	190	1741	-.400	.175	.140	-1.307	190	1847	-.300	.146	.194	-1.036
190	1636	.281	.222	1.166	-.608	190	1742	-.354	.168	.127	-1.196	190	1848	-.264	.140	.179	-.799
190	1637	.217	.187	1.026	-.325	190	1743	-.295	.175	.306	-.955	190	1849	-.246	.137	.186	-.805
190	1638	.017	.152	.699	-.485	190	1744	-.351	.183	.307	-1.182	190	1850	-.146	.144	.325	-.551
190	1639	.114	.144	.573	-.624	190	1801	-.334	.183	.394	-1.155	190	1851	-.130	.133	.352	-.594
190	1640	.316	.215	1.242	-.447	190	1802	-.334	.178	.409	-1.173	190	1852	-.078	.127	.305	-.500
190	1641	.304	.193	1.000	-.678	190	1803	-.318	.175	.395	-1.074	190	1853	-.110	.130	.312	-.620
190	1642	.262	.180	.999	-.206	190	1804	-.315	.165	.425	-1.038	190	1854	-.121	.133	.274	-.651

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	1901	218	142	154	792	190	2401	179	144	881	335	190	2516	160	159	847	349
190	1902	391	186	097	351	190	2402	211	157	777	346	190	2517	092	172	864	439
190	1903	174	138	245	796	190	2403	216	173	824	437	190	2518	057	169	885	570
190	1904	377	202	196	694	190	2404	196	181	831	463	190	2519	081	155	822	406
190	1905	206	137	247	747	190	2405	160	144	668	351	190	2520	122	160	737	417
190	1906	263	171	212	678	190	2406	186	149	736	376	190	2521	029	138	511	417
190	1908	276	164	200	362	190	2407	199	161	831	428	190	2522	063	136	546	388
190	1909	289	194	421	562	190	2408	178	190	856	551	190	2523	067	119	486	457
190	1910	210	144	196	866	190	2409	134	185	946	694	190	2524	045	122	476	530
190	1911	504	240	373	199	190	2410	121	134	604	344	190	2525	036	123	461	518
190	1912	200	131	227	693	190	2411	136	140	671	327	190	2526	127	138	606	230
190	1913	457	246	316	191	190	2412	154	142	701	320	190	2527	130	142	618	338
190	1914	223	142	167	786	190	2413	118	173	642	513	190	2528	131	144	548	444
190	1915	355	182	154	273	190	2414	080	188	647	574	190	2529	127	143	643	344
190	1916	223	137	223	652	190	2415	092	157	639	417	190	2530	105	134	541	343
190	1917	432	252	498	186	190	2416	060	148	651	508	190	2601	184	189	847	431
190	1918	264	172	258	079	190	2417	025	144	532	473	190	2602	197	173	765	315
190	1919	271	131	090	714	190	2418	012	191	844	548	190	2603	146	160	927	434
190	1920	300	209	531	132	190	2419	076	175	612	688	190	2604	026	152	668	441
190	1921	316	164	193	076	190	2420	096	128	345	424	190	2605	145	201	017	837
190	1922	372	198	339	436	190	2421	086	125	514	487	190	2606	186	167	880	436
190	1924	397	184	261	188	190	2422	074	118	436	368	190	2607	173	151	877	404
190	1925	383	226	522	268	190	2423	039	140	548	427	190	2608	118	140	701	430
190	1926	587	269	005	084	190	2424	012	144	531	427	190	2609	064	144	584	384
190	1927	227	173	423	897	190	2425	028	116	357	417	190	2610	049	213	819	488
190	1928	325	169	230	205	190	2426	037	172	420	805	190	2611	096	194	043	899
190	1929	328	182	325	959	190	2427	091	109	525	345	190	2612	099	160	024	459
190	1930	338	172	236	53	190	2428	185	116	741	253	190	2613	011	155	856	471
190	2301	318	197	091	230	190	2429	188	117	594	251	190	2615	008	202	802	788
190	2302	303	198	068	311	190	2430	204	116	642	197	190	2616	031	199	710	131
190	2303	262	176	917	272	190	2431	201	119	636	204	190	2617	084	150	675	411
190	2304	197	166	881	353	190	2432	213	119	626	182	190	2618	032	153	705	470
190	2305	104	152	665	502	190	2433	190	116	562	220	190	2619	039	153	620	563
190	2306	248	160	798	204	190	2434	155	108	487	278	190	2620	017	151	472	702
190	2307	231	147	902	314	190	2435	152	110	493	261	190	2621	006	137	326	588
190	2308	072	134	617	406	190	2501	306	186	066	281	190	2622	031	126	529	426
190	2309	062	132	589	406	190	2502	315	178	981	207	190	2623	001	125	494	443
190	2310	080	128	611	399	190	2503	289	178	981	210	190	2624	070	136	407	528
190	2311	282	179	852	284	190	2504	298	182	139	240	190	2625	054	141	466	628
190	2312	218	172	802	362	190	2505	305	184	127	230	190	2626	057	141	473	499
190	2313	185	143	691	311	190	2506	315	185	168	236	190	2627	091	133	515	503
190	2314	138	133	595	302	190	2507	285	178	164	240	190	2628	071	129	544	542
190	2315	118	136	631	474	190	2508	286	178	157	216	190	2629	034	128	478	396
190	2316	027	162	539	581	190	2509	286	178	013	220	190	2701	176	171	432	844
190	2317	064	150	502	514	190	2510	252	174	901	304	190	2702	103	174	450	715
190	2318	073	154	541	443	190	2511	192	166	957	304	190	2703	194	243	479	511
190	2319	152	169	034	364	190	2512	266	176	945	258	190	2704	361	269	336	836
190	2320	180	178	009	325	190	2513	340	150	870	116	190	2705	362	284	350	800
190	2321	178	151	865	247	190	2514	258	196	029	304	190	2706	144	141	339	649
190	2322	138	136	638	392	190	2515	185	184	966	364	190	2707	155	146	335	667



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	2708	-.198	.162	.396	-.756	190	2819	-.287	.178	.212	-1.106	200	1111	-.181	.134	.431	-.668
190	2709	-.049	.167	.468	-.621	190	2820	-.265	.147	.235	-.829	200	1112	-.201	.137	.427	-.656
190	2710	-.080	.152	.863	-.597	190	2821	-.264	.145	.243	-.828	200	1113	-.224	.145	.320	-.776
190	2711	-.164	.179	1.110	-.634	190	2822	-.277	.146	.231	-.816	200	1114	-.206	.139	.355	-.686
190	2712	-.065	.150	.812	-.663	190	2823	-.190	.141	.354	-.719	200	1115	-.215	.138	.363	-.683
190	2713	-.166	.177	.322	-.898	190	2824	-.216	.151	.364	-.811	200	1116	-.278	.134	.327	-.807
190	2714	-.180	.139	.233	-.691	190	2901	-.093	.155	.889	-.417	200	1117	-.191	.130	.400	-.661
190	2715	-.141	.173	.456	-.006	190	2902	-.207	.198	1.014	-.340	200	1118	-.187	.140	.282	-.700
190	2716	-.025	.178	.592	-.932	190	2903	-.119	.142	.736	-.312	200	1119	-.164	.126	.255	-.649
190	2717	-.004	.161	.486	-.563	190	2904	-.146	.140	.691	-.287	200	1120	-.255	.136	.197	-.724
190	2718	-.103	.139	.423	-.703	190	2905	-.173	.146	.784	-.280	200	1121	-.167	.126	.242	-.632
190	2719	-.129	.148	.334	-.666	190	2906	-.127	.140	.726	-.334	200	1122	-.181	.130	.240	-.617
190	2720	-.118	.147	.329	-.661	190	2907	-.247	.164	.890	-.225	200	1123	-.169	.130	.269	-.592
190	2721	-.114	.134	.342	-.639	190	2908	-.329	.192	1.122	-.204	200	1124	-.272	.143	.211	-.748
190	2722	-.078	.134	.353	-.680	190	2909	-.050	.151	.626	-.474	200	1125	-.269	.141	.155	-.723
190	2723	-.051	.133	.354	-.502	190	2910	-.189	.158	.755	-.572	200	1126	-.183	.128	.254	-.579
190	2724	-.080	.132	.360	-.521	190	2911	-.293	.196	1.006	-.658	200	1127	-.169	.131	.263	-.578
190	2725	-.101	.129	.280	-.703	190	2912	-.165	.155	.684	-.368	200	1128	-.158	.129	.291	-.549
190	2726	-.126	.134	.251	-.778	190	2913	-.119	.164	.678	-.680	200	1129	-.253	.140	.240	-.697
190	2727	-.083	.136	.348	-.632	190	2914	-.333	.192	1.252	-.224	200	1130	-.169	.133	.289	-.609
190	2728	-.028	.136	.384	-.533	190	2915	-.153	.146	.648	-.431	200	1131	-.209	.142	.234	-.1.039
190	2729	-.011	.135	.526	-.433	190	2916	-.150	.144	.699	-.339	200	1132	-.194	.129	.237	-.620
190	2730	-.032	.140	.502	-.468	190	2917	-.308	.192	1.061	-.254	200	1133	-.187	.128	.219	-.601
190	2731	-.088	.130	.374	-.860	190	2918	-.116	.172	.698	-.435	200	1134	-.295	.141	.146	-.755
190	2732	-.092	.139	.427	-.850	190	2919	-.142	.156	.683	-.669	200	1135	-.193	.133	.242	-.643
190	2733	-.051	.133	.555	-.341	190	2920	-.497	.225	1.100	-.1.709	200	1136	-.218	.143	.254	-.765
190	2734	-.037	.123	.453	-.334	190	2921	-.399	.273	.936	-.1.800	200	1137	-.205	.140	.343	-.716
190	2735	-.053	.137	.578	-.466	190	2922	-.371	.181	.291	-.1.271	200	1138	-.181	.136	.352	-.653
190	2736	-.017	.130	.508	-.465	190	2923	-.144	.151	.686	-.369	200	1139	-.295	.149	.273	-.860
190	2737	-.209	.146	.385	-.722	190	2924	-.190	.148	.322	-.779	200	1140	-.210	.142	.298	-.758
190	2738	-.026	.132	.435	-.531	190	2925	-.574	.289	.340	-.2.197	200	1141	-.223	.132	.319	-.743
190	2739	-.028	.122	.413	-.429	190	2926	-.130	.143	.439	-.592	200	1142	-.239	.141	.331	-.816
190	2801	-.635	.365	.044	-.2.412	190	2927	-.039	.157	.511	-.596	200	1143	-.211	.132	.215	-.666
190	2802	-.546	.289	.172	-.1.989	190	2928	-.037	.147	.555	-.463	200	1144	-.204	.128	.213	-.646
190	2803	-.385	.186	.122	-.1.187	190	2930	-.098	.134	.470	-.530	200	1145	-.219	.131	.198	-.660
190	2804	-.327	.168	.207	-.1.949	190	2931	-.025	.108	.393	-.351	200	1146	-.230	.142	.160	-.858
190	2805	-.377	.227	.141	-.2.079	190	2932	-.095	.118	.341	-.595	200	1147	-.240	.137	.167	-.1.010
190	2806	-.381	.207	.147	-.1.563	190	2933	-.304	.115	.144	-.880	200	1148	-.275	.171	.209	-.1.231
190	2807	-.356	.181	.156	-.1.131	190	2934	-.323	.156	.095	-.955	200	1149	-.199	.132	.287	-.738
190	2808	-.300	.170	.188	-.939	190	2935	-.088	.119	.320	-.656	200	1150	-.188	.130	.260	-.722
190	2809	-.261	.169	.216	-.929	200	1101	-.218	.144	.245	-.779	200	1151	-.209	.133	.199	-.697
190	2810	-.403	.215	.127	-.1.448	200	1102	-.211	.143	.246	-.770	200	1152	-.207	.154	.304	-.774
190	2811	-.378	.206	.112	-.1.451	200	1103	-.207	.132	.209	-.656	200	1153	-.198	.157	.352	-.788
190	2812	-.331	.166	.148	-.909	200	1104	-.195	.132	.247	-.761	200	1154	-.214	.159	.326	-.811
190	2813	-.295	.161	.194	-.884	200	1105	-.211	.136	.228	-.796	200	1155	-.181	.151	.288	-.803
190	2814	-.296	.165	.244	-.926	200	1106	-.214	.147	.368	-.957	200	1156	-.227	.154	.370	-.752
190	2815	-.408	.187	.106	-.1.397	200	1107	-.206	.146	.357	-.917	200	1157	-.257	.163	.284	-.915
190	2816	-.426	.191	.114	-.1.592	200	1108	-.203	.145	.318	-.845	200	1158	-.160	.144	.376	-.706
190	2817	-.377	.173	.171	-.1.123	200	1109	-.284	.132	.187	-.713	200	1159	-.124	.145	.455	-.763
190	2818	-.292	.158	.252	-.873	200	1110	-.206	.130	.237	-.661	200	1160	-.144	.156	.394	-.849

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	1161	146	144	291	-646	200	1245	180	162	294	-862	200	1336	335	140	223	-866
200	1162	166	156	271	-777	200	1246	196	145	289	-773	200	1337	340	130	142	-889
200	1163	074	118	320	-508	200	1247	194	160	328	-862	200	1338	353	128	139	-844
200	1164	023	126	496	-492	200	1248	200	179	333	-1281	200	1339	336	124	126	-795
200	1165	055	116	319	-412	200	1249	244	172	334	-1127	200	1340	311	132	129	-877
200	1166	022	126	477	-487	200	1250	102	133	386	-533	200	1341	287	148	332	-948
200	1201	221	142	252	-790	200	1251	100	139	323	-575	200	1342	317	143	344	-1052
200	1202	310	148	180	-902	200	1252	140	145	303	-743	200	1344	334	140	074	-1351
200	1203	227	148	244	-818	200	1253	118	142	366	-666	200	1345	319	136	092	-1196
200	1204	222	160	335	-1112	200	1254	096	132	337	-755	200	1346	241	169	-	-935
200	1205	224	156	211	-824	200	1255	083	135	418	-517	200	1347	264	144	325	-895
200	1206	215	154	245	-826	200	1256	049	138	396	-460	200	1348	311	148	079	-932
200	1207	203	147	283	-848	200	1257	108	136	408	-662	200	1349	302	141	100	-1010
200	1208	225	153	273	-760	200	1258	095	143	365	-718	200	1350	282	138	152	-930
200	1209	235	155	268	-834	200	1259	092	131	425	-838	200	1351	037	143	497	-758
200	1210	235	164	279	-1076	200	1301	253	158	221	-948	200	1352	133	134	333	-595
200	1211	326	162	177	-1113	200	1302	278	174	221	-1278	200	1353	297	151	156	-1068
200	1212	222	151	275	-769	200	1303	333	203	175	-1619	200	1354	277	138	144	-1102
200	1213	192	134	233	-700	200	1304	224	155	435	-835	200	1355	202	127	211	-741
200	1214	211	137	228	-745	200	1305	224	150	265	-736	200	1356	082	134	470	-546
200	1215	208	149	293	-183	200	1306	236	153	236	-951	200	1357	079	151	451	-602
200	1216	240	103	125	-566	200	1307	257	162	216	-1166	200	1358	136	151	316	-833
200	1217	189	130	200	-674	200	1308	342	172	145	-1297	200	1359	139	145	310	-795
200	1218	291	146	200	-966	200	1309	323	162	146	-1286	200	1360	130	142	344	-634
200	1219	203	137	262	-797	200	1310	246	154	173	-1145	200	1401	187	194	570	-1121
200	1220	236	149	229	-888	200	1311	245	155	190	-1027	200	1402	195	218	765	-1189
200	1221	218	143	233	-799	200	1312	319	148	162	-896	200	1403	337	223	613	-1300
200	1222	304	145	181	-942	200	1313	236	141	233	-746	200	1404	365	240	585	-1489
200	1223	235	137	224	-983	200	1314	244	153	186	-897	200	1405	117	148	361	-910
200	1224	215	140	257	-778	200	1315	213	136	192	-910	200	1406	081	175	468	-1009
200	1225	277	194	257	-1484	200	1316	251	154	199	-1067	200	1407	179	267	579	-1378
200	1226	383	202	182	-1607	200	1317	231	142	200	-779	200	1408	241	292	798	-1648
200	1227	254	172	253	-1427	200	1318	322	150	190	-976	200	1409	296	263	544	-1792
200	1228	227	153	273	-937	200	1319	218	137	277	-738	200	1410	148	133	273	-882
200	1229	226	155	288	-934	200	1320	224	149	295	-871	200	1411	137	151	324	-1112
200	1230	434	190	151	-1357	200	1321	239	152	173	-1399	200	1412	114	133	539	-738
200	1231	333	178	204	-1149	200	1322	335	154	106	-1035	200	1413	136	376	952	-1553
200	1232	296	171	187	-1082	200	1323	221	140	182	-789	200	1414	290	351	088	-1519
200	1233	278	171	239	-1056	200	1324	229	144	197	-775	200	1415	150	141	405	-704
200	1234	314	179	340	-949	200	1325	251	162	326	-885	200	1416	079	154	523	-790
200	1235	319	172	175	-1106	200	1326	380	184	372	-1216	200	1417	002	254	897	-1083
200	1236	333	191	132	-1445	200	1327	262	160	251	-810	200	1418	221	362	845	-1899
200	1237	300	186	180	-1220	200	1328	287	168	184	-981	200	1419	366	397	445	-2029
200	1238	306	197	230	-1616	200	1329	263	161	176	-915	200	1420	169	152	374	-916
200	1239	322	203	232	-1701	200	1330	312	167	284	-1364	200	1421	085	160	423	-1071
200	1240	282	181	220	-1236	200	1331	342	197	207	-1223	200	1422	047	290	702	-1627
200	1241	293	170	316	-1511	200	1332	307	174	261	-981	200	1423	276	364	876	-1721
200	1242	299	193	236	-2037	200	1333	307	172	261	-1067	200	1424	305	333	940	-1775
200	1243	281	177	233	-1038	200	1334	295	167	239	-1033	200	1425	191	146	345	-1227
200	1244	310	219	295	-1866	200	1335	302	168	258	-975	200	1426	126	151	516	-1181



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	1427	106	237	592	-1.422	200	1518	521	264	1.375	-255	200	1606	062	288	701	-1.200
200	1428	328	336	747	-1.766	200	1519	416	230	1.182	-202	200	1607	010	203	736	-995
200	1429	325	310	635	-1.061	200	1520	461	237	1.280	-163	200	1608	006	163	565	-609
200	1430	228	150	222	-1.061	200	1521	567	250	1.308	-215	200	1609	156	149	357	-776
200	1431	141	156	337	-0.931	200	1522	588	251	1.377	-160	200	1610	104	370	1.362	-1.139
200	1432	144	269	555	-1.119	200	1523	579	254	1.421	-128	200	1611	171	357	1.250	-1.431
200	1433	304	340	801	-1.465	200	1524	558	246	1.406	-168	200	1612	212	209	3551	-1.239
200	1434	373	313	1.000	-1.539	200	1525	422	221	1.257	-170	200	1613	027	158	3244	-1.598
200	1435	216	152	321	-1.232	200	1526	534	237	1.449	-182	200	1614	083	142	3899	-1.698
200	1436	111	141	340	-0.859	200	1527	561	241	1.414	-156	200	1615	048	406	778	-2.062
200	1437	175	269	535	-1.801	200	1528	586	251	1.469	-154	200	1616	147	331	1.124	-1.497
200	1438	336	320	715	-1.705	200	1529	594	247	1.406	-118	200	1617	165	226	993	-0.858
200	1439	344	300	824	-1.540	200	1530	521	227	1.367	-088	200	1618	020	173	714	-0.707
200	1440	211	130	417	-0.779	200	1531	283	194	1.194	-332	200	1619	120	146	461	-0.663
200	1441	146	153	478	-0.889	200	1532	365	210	1.315	-269	200	1620	133	317	1.077	-0.987
200	1442	173	227	523	-1.331	200	1533	370	216	1.330	-245	200	1621	159	326	1.060	-1.031
200	1443	359	275	691	-1.619	200	1534	405	223	1.572	-176	200	1622	226	198	809	-0.872
200	1444	347	258	652	-1.396	200	1535	465	213	1.338	-088	200	1623	059	148	544	-0.716
200	1445	136	140	314	-0.612	200	1536	424	210	1.367	-144	200	1624	085	139	352	-0.630
200	1446	083	138	480	-0.934	200	1537	212	181	1.121	-295	200	1625	080	292	1.061	-1.001
200	1447	027	153	449	-1.039	200	1538	353	195	1.202	-224	200	1626	140	281	1.073	-1.216
200	1448	216	253	465	-1.544	200	1539	374	190	1.194	-165	200	1627	146	213	1.088	-1.293
200	1449	256	257	508	-1.490	200	1540	391	230	1.503	-267	200	1628	010	156	3559	-1.644
200	1450	053	125	420	-0.518	200	1541	403	237	1.525	-275	200	1629	136	150	353	-1.713
200	1451	035	123	438	-0.469	200	1542	362	242	1.510	-335	200	1630	126	302	1.045	-1.503
200	1452	021	124	525	-0.402	200	1543	202	174	0.885	-378	200	1631	130	301	1.052	-1.670
200	1453	039	135	411	-0.604	200	1544	291	199	1.120	-343	200	1632	159	192	936	-0.926
200	1454	055	142	379	-0.943	200	1545	310	196	1.137	-307	200	1633	016	141	576	-0.549
200	1455	012	100	378	-0.356	200	1546	357	197	1.201	-223	200	1634	200	145	264	-0.781
200	1456	020	131	419	-0.311	200	1547	373	207	1.248	-207	200	1635	096	281	1.016	-1.065
200	1457	076	126	566	-0.800	200	1548	331	218	1.233	-268	200	1636	119	267	989	-0.951
200	1458	087	128	683	-0.815	200	1549	154	159	0.871	-396	200	1637	109	188	814	-0.624
200	1459	053	130	683	-0.815	200	1550	171	171	1.034	-282	200	1638	047	155	643	-0.576
200	1501	079	173	826	-0.722	200	1551	219	172	0.966	-293	200	1639	161	139	288	-0.689
200	1502	180	186	912	-0.375	200	1552	258	179	1.137	-300	200	1640	207	239	868	-0.907
200	1503	252	213	252	-0.459	200	1553	320	196	1.466	-298	200	1641	236	231	920	-0.714
200	1504	250	211	356	-0.430	200	1554	143	150	0.861	-373	200	1642	183	171	754	-0.286
200	1505	150	210	112	-0.622	200	1555	186	148	0.836	-314	200	1643	095	158	714	-0.335
200	1506	278	223	186	-0.333	200	1556	157	137	0.670	-320	200	1644	020	150	544	-0.554
200	1507	314	227	198	-0.363	200	1557	236	143	0.732	-262	200	1701	422	208	137	-1.690
200	1508	268	358	194	-0.451	200	1558	082	145	0.757	-394	200	1702	308	187	297	-1.324
200	1509	445	411	731	-0.204	200	1559	138	146	0.785	-321	200	1703	262	163	246	-0.929
200	1510	371	431	707	-0.225	200	1560	150	153	0.915	-378	200	1704	298	171	166	-0.945
200	1511	346	223	332	-0.225	200	1561	173	142	0.720	-347	200	1705	312	182	154	-1.760
200	1512	335	229	262	-0.369	200	1562	140	140	0.801	-377	200	1706	309	178	154	-1.013
200	1513	407	243	1.425	-0.451	200	1603	265	265	0.800	-0.466	200	1707	308	176	159	-1.025
200	1514	492	270	513	-0.222	200	1604	068	261	0.945	-0.868	200	1708	291	166	161	-0.883
200	1515	524	255	521	-0.198	200	1605	047	219	1.042	-0.817	200	1709	249	163	579	-0.848
200	1516	531	238	662	-0.059	200	1606	043	184	0.448	-0.810	200	1710	223	167	667	-0.930
200	1517	534	242	874	-0.068	200	1607	047	279	0.843	-1.133	200	1711	273	157	193	-0.836

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	1712	-.278	.157	.190	-.844	200	1818	-.206	.138	.188	-.972	200	1915	-.282	.174	.327	-1.041
200	1713	-.291	.162	.186	-.902	200	1819	-.202	.147	.248	-.851	200	1916	-.208	.126	.243	-.659
200	1714	-.351	.164	.153	-1.049	200	1820	-.208	.153	.336	-1.047	200	1917	-.520	.259	1.464	-.305
200	1715	-.310	.172	.331	-1.311	200	1821	-.301	.151	.235	-1.077	200	1918	-.264	.157	1.279	-.891
200	1716	-.257	.163	.169	-1.236	200	1822	-.201	.149	.366	-1.278	200	1919	-.206	.133	.210	-.778
200	1717	-.280	.163	.138	-1.191	200	1823	-.234	.149	.233	-1.015	200	1920	-.298	.202	.750	-1.108
200	1718	-.265	.162	.170	-1.192	200	1824	-.229	.153	.227	-.937	200	1921	-.268	.175	.237	-1.155
200	1719	-.288	.175	.241	-.962	200	1825	-.327	.174	.252	-1.171	200	1922	-.301	.195	.387	-1.324
200	1720	-.271	.162	.708	-1.096	200	1826	-.217	.160	.262	-.971	200	1924	-.328	.186	.190	-1.227
200	1721	-.270	.153	.262	-.849	200	1827	-.239	.164	.266	-1.627	200	1925	-.323	.205	.333	-1.357
200	1722	-.258	.151	.247	-.842	200	1828	-.243	.167	.301	-1.393	200	1926	-.385	.206	.173	-1.880
200	1723	-.304	.157	.215	-1.076	200	1829	-.360	.193	.208	-2.418	200	1927	-.238	.159	.257	-.882
200	1724	-.333	.167	.219	-1.156	200	1830	-.257	.163	.207	-1.096	200	1928	-.236	.149	.274	-.866
200	1725	-.266	.170	.368	-1.063	200	1831	-.265	.165	.211	-1.300	200	1929	-.280	.143	.145	-.860
200	1726	-.281	.163	.153	-.894	200	1832	-.245	.157	.170	-1.258	200	1930	-.292	.175	.261	-1.527
200	1727	-.298	.152	.142	-1.076	200	1833	-.368	.179	.065	-1.548	200	2301	.314	.180	1.059	-.238
200	1728	-.304	.157	.145	-1.012	200	1834	-.286	.159	.114	-1.035	200	2302	.304	.177	1.031	-.304
200	1729	-.342	.192	.498	-1.322	200	1835	-.330	.173	.187	-1.214	200	2303	.226	.161	.902	-.343
200	1730	-.264	.173	.343	-1.177	200	1836	-.286	.155	.203	-1.062	200	2304	.162	.164	.684	-.775
200	1731	-.325	.172	.129	-1.175	200	1837	-.282	.110	.025	-.658	200	2305	.085	.157	.559	-.666
200	1732	-.328	.154	.119	-.802	200	1838	-.284	.158	.219	-1.002	200	2306	.242	.151	.875	-.219
200	1733	-.334	.161	.135	-.967	200	1839	-.266	.156	.285	-1.141	200	2307	.183	.140	.773	-.466
200	1734	-.344	.166	.219	-.939	200	1840	-.301	.167	.249	-1.112	200	2308	.083	.155	.711	-.531
200	1735	-.404	.186	.278	-1.394	200	1841	-.298	.164	.287	-1.048	200	2309	.066	.149	.656	-.467
200	1736	-.353	.158	.151	-1.044	200	1842	-.287	.161	.205	-.955	200	2310	.075	.143	.608	-.483
200	1737	-.342	.157	.163	-.991	200	1843	-.297	.164	.147	-.938	200	2311	.237	.149	.749	-.205
200	1738	-.339	.177	.201	-1.296	200	1844	-.305	.155	.147	-.995	200	2312	.181	.141	.617	-.262
200	1739	-.349	.194	.224	-1.300	200	1845	-.344	.170	.217	-1.072	200	2313	.188	.146	.697	-.334
200	1740	-.343	.185	.387	-1.210	200	1846	-.322	.162	.210	-1.108	200	2314	.140	.134	.511	-.365
200	1741	-.367	.172	.169	-1.082	200	1847	-.279	.155	.168	-.801	200	2315	.104	.131	.591	-.342
200	1742	-.327	.167	.206	-.997	200	1848	-.238	.149	.206	-.789	200	2316	.025	.142	.486	-.534
200	1743	-.311	.161	.220	-.947	200	1849	-.237	.151	.203	-.836	200	2317	.046	.131	.496	-.418
200	1744	-.319	.167	.247	-.973	200	1850	-.146	.127	.296	-.611	200	2318	.052	.134	.514	-.419
200	1801	-.259	.151	.215	-.879	200	1851	-.136	.132	.302	-.607	200	2319	.089	.142	.570	-.371
200	1802	-.241	.148	.180	-.827	200	1852	-.094	.128	.308	-.522	200	2320	.107	.149	.696	-.372
200	1803	-.227	.147	.267	-.783	200	1853	-.138	.136	.380	-.600	200	2321	.131	.132	.590	-.286
200	1804	-.231	.148	.251	-.766	200	1854	-.136	.138	.369	-.669	200	2322	.125	.140	.565	-.298
200	1805	-.248	.169	.292	-1.158	200	1901	-.230	.147	.212	-1.195	200	2401	.150	.141	.587	-.324
200	1806	-.235	.164	.276	-.932	200	1902	-.342	.195	.147	-1.469	200	2402	.191	.154	.749	-.463
200	1807	-.226	.157	.229	-.892	200	1903	-.265	.164	.291	-1.186	200	2403	.208	.169	.848	-.268
200	1808	-.232	.156	.223	-.953	200	1904	-.372	.190	.260	-1.317	200	2404	.187	.176	.832	-.466
200	1809	-.224	.150	.358	-.953	200	1905	-.210	.146	.241	-.776	200	2405	.139	.135	.675	-.360
200	1810	-.233	.150	.363	-.836	200	1906	-.309	.188	.201	-1.201	200	2406	.165	.141	.751	-.373
200	1811	-.221	.146	.351	-.863	200	1908	-.285	.174	.201	-1.235	200	2407	.173	.150	.829	-.299
200	1812	-.196	.137	.183	-.850	200	1909	-.312	.195	.225	-1.646	200	2408	.172	.165	.920	-.672
200	1813	-.234	.144	.250	-.785	200	1910	-.247	.154	.231	-1.088	200	2409	.152	.180	.729	-.923
200	1814	-.236	.149	.246	-.968	200	1911	-.507	.265	1.331	-2.44	200	2410	.113	.135	.491	-.747
200	1815	-.218	.137	.178	-.735	200	1912	-.217	.136	.213	-.801	200	2411	.122	.122	.562	-.362
200	1816	-.195	.132	.170	-.681	200	1913	-.544	.258	1.283	-.208	200	2412	.146	.124	.552	-.497
200	1817	-.289	.141	.127	-.883	200	1914	-.253	.154	1.219	-.863	200	2413	.134	.140	.752	-.332

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	2414	.102	.150	.768	-.516	200	2529	.132	.146	.888	-.350	200	2721	-.166	.133	.265	-.625
200	2415	.071	.133	.511	-.374	200	2530	.102	.133	.613	-.347	200	2722	-.127	.139	.344	-.693
200	2416	.048	.131	.758	-.377	200	2601	.082	.168	.721	-.491	200	2723	-.094	.139	.358	-.597
200	2417	.016	.127	.651	-.424	200	2602	.100	.155	.708	-.453	200	2724	-.120	.142	.360	-.651
200	2418	.000	.166	.731	-.501	200	2603	.047	.151	.567	-.849	200	2725	-.142	.141	.385	-.651
200	2419	.063	.185	.696	-.748	200	2604	.057	.139	.402	-.794	200	2726	-.175	.147	.358	-.773
200	2420	.078	.133	.501	-.377	200	2605	.064	.221	.922	-.008	200	2727	-.130	.145	.441	-.755
200	2421	.065	.132	.515	-.343	200	2606	.129	.183	.822	-.586	200	2728	-.064	.127	.551	-.656
200	2422	.065	.124	.487	-.307	200	2607	.114	.159	.787	-.413	200	2729	-.019	.135	.556	-.567
200	2423	.036	.123	.456	-.472	200	2608	.057	.144	.761	-.558	200	2730	-.041	.139	.498	-.576
200	2424	.012	.127	.444	-.598	200	2609	.010	.135	.573	-.515	200	2731	-.145	.146	.297	-.860
200	2425	.041	.108	.351	-.523	200	2610	.057	.188	.565	-.901	200	2732	-.148	.151	.428	-.771
200	2426	.018	.153	.531	-.969	200	2611	.018	.171	.658	-.699	200	2733	.014	.135	.565	-.418
200	2427	.094	.103	.403	-.415	200	2612	.027	.134	.598	-.479	200	2734	.012	.127	.468	-.428
200	2428	.174	.107	.564	-.173	200	2613	.054	.129	.423	-.509	200	2735	.022	.143	.525	-.502
200	2429	.173	.110	.554	-.190	200	2615	.045	.168	.737	-.808	200	2736	-.034	.133	.392	-.553
200	2430	.190	.114	.585	-.189	200	2616	.039	.181	.628	-.843	200	2737	-.038	.152	.310	-.760
200	2431	.186	.117	.578	-.196	200	2617	.032	.134	.566	-.497	200	2738	-.038	.134	.366	-.580
200	2432	.199	.117	.592	-.174	200	2618	.032	.125	.483	-.448	200	2739	-.045	.144	.427	-.540
200	2433	.188	.112	.544	-.226	200	2619	.096	.127	.410	-.538	200	2801	-.519	.323	.473	-.865
200	2434	.154	.109	.511	-.240	200	2620	.073	.134	.369	-.545	200	2802	-.432	.220	.075	-.783
200	2435	.145	.111	.486	-.414	200	2621	.051	.136	.412	-.642	200	2803	-.328	.179	.265	-.380
200	2501	.258	.198	1.175	-.300	200	2622	.017	.130	.455	-.542	200	2804	-.307	.162	.264	-.009
200	2502	.242	.168	.894	-.334	200	2623	.051	.127	.410	-.506	200	2805	-.396	.199	.168	-.552
200	2503	.210	.167	.970	-.362	200	2624	.089	.122	.345	-.603	200	2806	-.339	.186	.176	-.341
200	2504	.191	1.161	.161	-.262	200	2625	.027	.150	.553	-.602	200	2807	-.295	.163	.217	-.092
200	2505	.280	1.203	.203	-.277	200	2626	.018	.149	.641	-.593	200	2808	-.280	.155	.219	-.943
200	2506	.289	1.349	.349	-.300	200	2627	.030	.141	.595	-.474	200	2809	-.259	.150	.231	-.769
200	2507	.284	1.375	.375	-.274	200	2628	.012	.137	.595	-.495	200	2810	-.354	.179	.087	-.436
200	2508	.291	1.305	.305	-.273	200	2629	.030	.119	.453	-.492	200	2811	-.325	.173	.166	-.231
200	2509	.269	1.247	.247	-.292	200	2701	.242	.159	.238	-.023	200	2812	-.294	.160	.193	-.995
200	2510	.257	1.245	.245	-.289	200	2702	.192	.153	.297	-.757	200	2813	-.268	.154	.218	-.829
200	2511	.167	.156	.878	-.269	200	2703	.284	.221	.489	-.1412	200	2814	-.272	.156	.318	-.776
200	2512	.225	.161	.995	-.244	200	2704	.341	.213	.337	-.1187	200	2815	-.368	.193	.129	-.967
200	2513	.349	.163	.949	-.313	200	2705	.397	.243	.336	-.1955	200	2816	-.372	.186	.131	-.522
200	2514	.207	.170	.912	-.289	200	2706	.171	.127	.259	-.596	200	2817	-.320	.157	.107	-.980
200	2515	.164	.164	.798	-.364	200	2707	.192	.130	.267	-.638	200	2818	-.255	.155	.193	-.839
200	2516	.167	.174	.760	-.370	200	2708	.226	.146	.355	-.827	200	2819	-.238	.140	.210	-.725
200	2517	.106	.193	.907	-.525	200	2709	.142	.152	.392	-.787	200	2820	-.263	.170	.248	-.021
200	2518	.064	.188	.748	-.732	200	2710	.030	.166	.688	-.659	200	2821	-.266	.171	.267	-.175
200	2519	.086	.175	.792	-.592	200	2711	.072	.196	.960	-.651	200	2822	-.274	.171	.271	-.124
200	2520	.101	.156	.749	-.391	200	2712	.008	.171	.723	-.698	200	2823	-.196	.148	.320	-.903
200	2521	.008	.125	.428	-.425	200	2713	.227	.178	.386	-.081	200	2824	-.212	.161	.332	-.830
200	2522	.043	.121	.454	-.387	200	2714	.271	.130	.177	-.811	200	2901	-.084	.145	.802	-.403
200	2523	.042	.121	.422	-.340	200	2715	.182	.130	.205	-.671	200	2902	.198	.177	1.154	-.328
200	2524	.026	.124	.425	-.366	200	2716	.098	.137	.342	-.680	200	2903	.123	.154	.728	-.428
200	2525	.006	.124	.404	-.391	200	2717	.047	.131	.385	-.614	200	2904	.162	.155	.771	-.292
200	2526	.107	.139	.542	-.350	200	2718	.122	.148	.478	-.794	200	2905	.186	.163	.933	-.338
200	2527	.131	.146	.762	-.353	200	2719	.168	.128	.279	-.587	200	2906	.138	.154	.742	-.367
200	2528	.141	.146	.784	-.341	200	2720	.152	.127	.507	-.567	200	2907	.238	.159	.809	-.230

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	2908	.326	.184	1.173	-.196	210	1124	-.150	.135	.264	-.683	210	1208	-.269	.163	.262	-1.032
200	2909	.070	.163	.669	-.797	210	1125	-.164	.123	.262	-.586	210	1209	-.278	.164	.204	-1.170
200	2910	.181	.153	.788	-.350	210	1126	-.142	.121	.278	-.551	210	1210	-.245	.157	.289	-.983
200	2911	.299	.198	1.011	-.489	210	1127	-.146	.133	.240	-.631	210	1211	-.302	.157	.188	-.898
200	2912	.156	.156	.726	-.373	210	1128	-.146	.133	.226	-.610	210	1212	-.232	.146	.306	-.978
200	2913	.106	.157	.784	-.586	210	1129	-.159	.135	.209	-.710	210	1213	-.233	.166	.298	-.893
200	2914	.295	.181	1.299	-.225	210	1130	-.158	.140	.234	-.831	210	1214	-.264	.171	.301	-.902
200	2915	.118	.141	.644	-.514	210	1131	-.158	.135	.279	-.717	210	1215	-.191	.169	.281	-.976
200	2916	.125	.161	.738	-.396	210	1132	-.141	.129	.280	-.547	210	1216	-.257	.103	.076	-.633
200	2917	.302	.190	1.627	-.181	210	1133	-.145	.130	.292	-.551	210	1217	-.181	.149	.297	-.833
200	2918	.403	.170	.723	-.566	210	1134	-.172	.135	.265	-.610	210	1218	-.200	.155	.296	-.930
200	2919	.077	.193	.680	-.210	210	1135	-.152	.138	.326	-.632	210	1219	-.201	.158	.315	-.944
200	2920	.400	.198	.182	-.671	210	1136	-.198	.144	.229	-.876	210	1220	-.230	.189	.309	-1.423
200	2921	.412	.249	.214	-.611	210	1137	-.153	.128	.345	-.621	210	1221	-.222	.178	.318	-1.338
200	2922	.338	.169	.127	-.191	210	1138	-.145	.124	.354	-.551	210	1222	-.213	.163	.288	-1.026
200	2923	.089	.158	.615	-.596	210	1139	-.174	.124	.347	-.642	210	1223	-.197	.167	.276	-1.015
200	2924	.224	.154	.271	-.966	210	1140	-.177	.128	.326	-.661	210	1224	-.207	.168	.406	-1.066
200	2925	.472	.260	.252	-.824	210	1141	-.166	.140	.331	-.665	210	1225	-.305	.227	.229	-1.607
200	2926	.204	.159	.295	-.789	210	1142	-.200	.156	.307	-.887	210	1226	-.317	.217	.202	-1.808
200	2927	.127	.178	.563	-.777	210	1143	-.180	.137	.198	-.796	210	1227	-.264	.189	.267	-1.009
200	2928	.031	.174	.622	-.666	210	1144	-.178	.136	.218	-.689	210	1228	-.252	.180	.229	-1.022
200	2929	.096	.126	.316	-.577	210	1145	-.201	.139	.294	-.660	210	1229	-.265	.184	.217	-1.333
200	2930	.029	.112	.409	-.373	210	1146	-.266	.162	.176	-.085	210	1230	-.307	.208	.236	-1.634
200	2931	.114	.122	.323	-.612	210	1147	-.289	.164	.218	-.006	210	1231	-.331	.195	.161	-1.489
200	2932	.294	.124	.100	-.816	210	1148	-.328	.170	.239	-.324	210	1232	-.339	.177	.133	-1.075
200	2933	.313	.157	.184	-.110	210	1149	-.149	.139	.288	-.607	210	1233	-.324	.178	.192	-1.231
200	2934	.103	.120	.314	-.588	210	1150	-.140	.136	.279	-.633	210	1234	-.346	.191	.204	-1.239
210	1101	.262	.138	.251	-.810	210	1151	-.165	.138	.277	-.687	210	1235	-.342	.191	.136	-1.217
210	1102	.257	.137	.262	-.792	210	1152	-.228	.154	.206	-.987	210	1236	-.341	.173	.210	-1.032
210	1103	.226	.142	.239	-.857	210	1153	-.261	.155	.232	-.783	210	1237	-.348	.186	.216	-1.203
210	1104	.215	.136	.223	-.890	210	1154	-.274	.155	.183	-.821	210	1238	-.355	.183	.150	-1.106
210	1105	.237	.141	.208	-.928	210	1155	-.115	.127	.289	-.599	210	1239	-.367	.188	.155	-1.196
210	1106	.253	.134	.249	-.867	210	1156	-.126	.125	.293	-.621	210	1240	-.290	.171	.237	-1.138
210	1107	.244	.133	.259	-.778	210	1157	-.150	.127	.352	-.683	210	1241	-.303	.164	.178	-.990
210	1108	.244	.131	.260	-.785	210	1158	-.147	.131	.332	-.744	210	1242	-.320	.186	.188	-1.304
210	1109	.265	.135	.165	-.713	210	1159	-.165	.138	.318	-.745	210	1243	-.330	.188	.157	-1.204
210	1110	.227	.133	.175	-.833	210	1160	-.188	.150	.289	-.757	210	1244	-.361	.219	.255	-1.247
210	1111	.199	.125	.239	-.618	210	1161	-.125	.119	.292	-.560	210	1245	-.187	.135	.303	-.772
210	1112	.211	.128	.231	-.659	210	1162	-.138	.121	.308	-.574	210	1246	-.187	.139	.226	-.707
210	1113	.244	.132	.354	-.226	210	1163	-.077	.114	.278	-.528	210	1247	-.214	.136	.229	-.748
210	1114	.233	.129	.382	-.689	210	1164	-.035	.124	.505	-.451	210	1248	-.242	.156	.272	-1.146
210	1115	.233	.128	.359	-.664	210	1165	-.069	.118	.429	-.493	210	1249	-.265	.172	.206	-1.155
210	1116	.274	.127	.238	-.677	210	1166	-.033	.123	.468	-.449	210	1250	-.094	.127	.316	-.561
210	1117	.209	.120	.232	-.600	210	1201	-.252	.158	.295	-.966	210	1251	-.084	.132	.426	-.625
210	1118	.206	.131	.212	-.912	210	1202	-.290	.166	.232	-.030	210	1252	-.128	.130	.244	-.655
210	1119	.143	.126	.250	-.561	210	1203	-.261	.156	.270	-.952	210	1253	-.100	.118	.296	-.553
210	1120	.151	.125	.240	-.561	210	1204	-.228	.145	.342	-.911	210	1254	-.097	.125	.303	-.536
210	1121	.142	.124	.239	-.564	210	1205	-.227	.162	.246	-.172	210	1255	-.063	.114	.291	-.504
210	1122	.137	.130	.319	-.559	210	1206	-.269	.161	.249	-.318	210	1256	-.038	.116	.413	-.503
210	1123	.132	.131	.270	-.568	210	1207	-.271	.167	.181	-.994	210	1257	-.079	.131	.354	-.532

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	123558	.092	.120	.333	-.502	210	1350	-.259	.119	.089	-.857	210	1440	-.203	.142	.244	-.683
210	123559	.070	.131	.357	-.528	210	1351	-.058	.120	.403	-.422	210	1441	-.101	.150	.415	-.707
210	13301	.334	.161	.228	-.081	210	1352	-.129	.115	.403	-.450	210	1442	-.026	.202	.857	-.1268
210	13302	.392	.201	.200	-.126	210	1353	-.212	.116	.187	-.646	210	1443	-.121	.278	1.128	-.1276
210	13303	.475	.230	.124	-.632	210	1354	-.195	.108	.137	-.567	210	1444	-.132	.270	1.206	-.1225
210	13304	.243	.171	.855	-.963	210	1355	-.132	.105	.186	-.472	210	1445	-.135	.145	.371	-.595
210	13305	.240	.166	1.056	-.018	210	1356	-.073	.140	.370	-.564	210	1446	-.079	.123	.536	-.498
210	13306	.293	.159	.252	-.902	210	1357	-.061	.129	.379	-.452	210	1447	-.017	.133	.542	-.569
210	13307	.345	.181	.130	-.207	210	1358	-.105	.129	.327	-.597	210	1448	-.117	.179	.543	-.1349
210	13308	.391	.200	.123	-.518	210	1359	-.116	.140	.260	-.676	210	1449	-.146	.191	.575	-.1955
210	13309	.410	.213	.213	-.642	210	1360	-.112	.139	.272	-.605	210	1450	-.049	.117	.330	-.501
210	13310	.362	.196	.218	-.372	210	1401	-.125	.181	.674	-.849	210	1451	-.037	.117	.374	-.453
210	13311	.335	.190	.661	-.154	210	1402	-.079	.218	.914	-.842	210	1452	-.022	.117	.572	-.402
210	13312	.335	.177	.198	-.078	210	1403	-.218	.257	1.195	-.1089	210	1453	-.020	.145	.430	-.471
210	13313	.331	.163	.105	-.960	210	1404	-.234	.272	1.259	-.1195	210	1454	-.034	.150	.432	-.563
210	13314	.342	.168	.159	-.039	210	1405	-.105	.154	.424	-.788	210	1455	-.005	.104	.358	-.372
210	13315	.287	.161	.190	-.996	210	1406	-.032	.164	.523	-.613	210	1456	-.016	.137	.487	-.489
210	13316	.227	.200	.671	-.193	210	1407	-.058	.212	.571	-.104	210	1457	.065	.124	.533	-.347
210	13317	.228	.181	.416	-.077	210	1408	-.072	.270	.724	-.013	210	1458	.075	.136	.504	-.298
210	13318	.252	.180	.358	-.977	210	1409	-.100	.268	1.007	-.1162	210	1459	.044	.130	.546	-.343
210	13319	.231	.173	.337	-.038	210	1410	-.149	.143	1.007	-.727	210	1501	.164	.210	.990	-.435
210	13320	.231	.175	.180	-.352	210	1411	-.078	.162	.572	-.864	210	1502	.233	.214	1.018	-.408
210	13321	.254	.197	.550	-.181	210	1412	-.223	.148	.674	-.588	210	1503	.252	.218	1.127	-.353
210	13322	.266	.179	.466	-.129	210	1413	-.127	.340	.917	-.2007	210	1504	.122	.194	.920	-.788
210	13323	.248	.179	.353	-.629	210	1414	-.018	.384	1.175	-.1482	210	1505	.009	.188	.791	-.935
210	13324	.255	.164	.172	-.951	210	1415	-.175	.148	.467	-.709	210	1506	.277	.224	1.209	-.903
210	13325	.291	.165	.249	-.968	210	1416	-.046	.154	.728	-.616	210	1507	.285	.222	1.207	-.924
210	13326	.325	.214	.591	-.473	210	1417	-.162	.199	.965	-.785	210	1508	.273	.237	1.239	-.761
210	13327	.312	.200	.640	-.705	210	1418	-.055	.330	1.134	-.1203	210	1509	.350	.231	1.171	-.375
210	13328	.312	.195	.257	-.243	210	1419	-.019	.358	1.317	-.614	210	1510	.258	.213	1.145	-.429
210	13329	.297	.187	.255	-.282	210	1420	-.156	.147	1.429	-.722	210	1511	.313	.218	1.109	-.467
210	13330	.366	.183	.165	-.533	210	1421	-.036	.146	.505	-.675	210	1512	.255	.215	1.167	-.492
210	13331	.376	.220	.619	-.796	210	1422	-.079	.208	.723	-.1094	210	1513	.482	.257	1.406	-.230
210	13332	.355	.191	.735	-.393	210	1423	-.059	.339	.910	-.1104	210	1514	.528	.262	1.395	-.215
210	13333	.370	.178	.683	-.411	210	1424	-.123	.315	.973	-.1067	210	1515	.535	.245	1.303	-.161
210	13334	.359	.167	.322	-.283	210	1425	-.182	.152	.277	-.911	210	1516	.538	.251	1.359	-.372
210	13335	.396	.175	.188	-.099	210	1426	-.072	.143	.592	-.669	210	1517	.548	.256	1.393	-.399
210	13336	.391	.164	.207	-.186	210	1427	-.079	.174	.731	-.1225	210	1518	.399	.258	1.364	-.686
210	13337	.415	.149	.084	-.159	210	1428	-.014	.294	.828	-.1486	210	1519	.446	.231	1.582	-.318
210	13338	.432	.145	.002	-.096	210	1429	-.046	.271	.796	-.1415	210	1520	.483	.233	1.635	-.305
210	13339	.411	.137	.023	-.030	210	1430	-.227	.148	.291	-.852	210	1521	.577	.262	1.420	-.502
210	1340	.350	.136	.014	-.866	210	1431	-.099	.147	.430	-.890	210	1522	.574	.268	1.322	-.564
210	1341	.245	.188	.744	-.946	210	1432	-.027	.194	.590	-.1034	210	1523	.538	.255	1.388	-.684
210	1342	.327	.171	.431	-.959	210	1433	-.033	.302	.761	-.1154	210	1524	.499	.254	1.373	-.611
210	1344	.379	.142	-.020	-.924	210	1434	-.100	.279	1.034	-.1546	210	1525	.433	.231	1.308	-.185
210	1345	.358	.135	.006	-.870	210	1435	-.210	.139	.252	-.750	210	1526	.464	.229	1.316	-.513
210	1346	.119	.176	.482	-.669	210	1436	-.033	.123	.539	-.549	210	1527	.480	.229	1.349	-.104
210	1347	.181	.157	.416	-.910	210	1437	-.014	.215	.802	-.1032	210	1528	.473	.235	1.381	-.145
210	1348	.281	.151	.332	-.367	210	1438	-.075	.320	.907	-.1263	210	1529	.471	.230	1.311	-.144
210	1349	.292	.127	.069	-.888	210	1439	-.063	.277	1.062	-.1223	210	1530	.416	.224	1.306	-.287



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	1531	.326	.233	1.375	-.415	210	1619	-.172	.151	.339	-1.277	210	1725	-.187	.138	.247	-.795
210	1532	.381	.238	1.456	-.165	210	1620	-.223	.304	.769	-1.341	210	1726	-.261	.147	.214	-.873
210	1533	.378	.243	1.482	-.180	210	1621	-.213	.330	.739	-1.347	210	1727	-.279	.153	.222	-1.022
210	1534	.387	.236	1.508	-.194	210	1622	-.046	.224	.649	-1.032	210	1728	-.285	.156	.217	-.968
210	1535	.411	.205	1.101	-.148	210	1623	-.016	.156	.713	-.673	210	1729	-.326	.177	.197	-1.244
210	1536	.339	.200	1.061	-.706	210	1624	-.122	.133	.412	-.632	210	1730	-.211	.158	.430	-.901
210	1537	.237	.197	1.056	-.249	210	1625	-.191	.315	.736	-1.639	210	1731	-.286	.145	.286	-.965
210	1538	.301	.206	1.170	-.274	210	1626	-.120	.331	.698	-1.686	210	1732	-.288	.139	.135	-.798
210	1539	.312	.199	1.103	-.249	210	1627	-.006	.235	.791	-1.019	210	1733	-.289	.144	.153	-.850
210	1540	.320	.195	1.034	-.310	210	1628	-.072	.144	.487	-.663	210	1734	-.312	.149	.136	-.992
210	1541	.322	.197	1.069	-.310	210	1629	-.171	.140	.283	-.655	210	1735	-.246	.164	.406	-1.001
210	1542	.253	.200	1.138	-.421	210	1630	-.144	.317	.805	-1.796	210	1736	-.307	.176	.217	-1.355
210	1543	.220	.189	1.195	-.297	210	1631	-.191	.323	.717	-1.452	210	1737	-.294	.177	.213	-1.512
210	1544	.255	.189	1.245	-.321	210	1632	-.012	.213	.759	-.821	210	1738	-.316	.173	.233	-1.161
210	1545	.267	.179	1.195	-.297	210	1633	-.084	.149	.443	-.533	210	1739	-.312	.187	.595	-1.393
210	1546	.274	.173	.939	-.197	210	1634	-.220	.140	.294	-.761	210	1740	-.316	.185	.474	-1.299
210	1547	.276	.177	.946	-.172	210	1635	-.183	.295	.978	-1.664	210	1741	-.297	.139	.244	-.842
210	1548	.200	.185	.926	-.283	210	1636	-.167	.296	.861	-1.723	210	1742	-.266	.136	.248	-.799
210	1549	.127	.158	.808	-.354	210	1637	-.043	.196	.671	-1.008	210	1743	-.265	.141	.212	-.943
210	1550	.196	.162	.880	-.344	210	1638	-.099	.145	.467	-.727	210	1744	-.244	.148	.223	-.727
210	1551	.188	.162	.841	-.401	210	1639	-.173	.146	.405	-.821	210	1801	-.291	.161	.201	-1.046
210	1552	.234	.165	.939	-.333	210	1640	-.045	.311	.791	-1.367	210	1802	-.272	.153	.164	-.919
210	1553	.288	.178	1.246	-.282	210	1641	-.078	.262	.851	-1.338	210	1803	-.262	.145	.165	-.837
210	1554	.096	.150	.783	-.333	210	1642	-.088	.166	.752	-.452	210	1804	-.264	.144	.150	-.786
210	1555	.130	.146	.859	-.351	210	1643	-.067	.155	.865	-.337	210	1805	-.252	.144	.225	-.733
210	1556	.112	.141	.585	-.335	210	1644	-.000	.142	.645	-.423	210	1806	-.246	.142	.233	-.732
210	1557	.195	.147	.702	-.303	210	1701	-.385	.198	.154	-1.255	210	1807	-.251	.140	.232	-.838
210	1558	.068	.150	.534	-.416	210	1702	-.283	.173	.252	-.956	210	1808	-.255	.140	.211	-.822
210	1559	.117	.149	.656	-.336	210	1703	-.263	.163	.260	-.954	210	1809	-.260	.151	.164	-.848
210	1560	.125	.146	.808	-.338	210	1704	-.276	.148	.173	-.894	210	1810	-.258	.146	.155	-.783
210	1561	.151	.142	.844	-.287	210	1705	-.277	.146	.204	-.829	210	1811	-.255	.145	.142	-.798
210	1562	.087	.129	.531	-.364	210	1706	-.279	.150	.185	-.926	210	1812	-.197	.128	.200	-.768
210	1601	-.330	.216	.625	-1.442	210	1707	-.280	.153	.175	-.928	210	1813	-.258	.144	.289	-.986
210	1602	-.278	.217	.595	-1.270	210	1708	-.280	.152	.164	-.969	210	1814	-.260	.145	.276	-.870
210	1603	-.197	.197	.566	-.899	210	1709	-.278	.152	.322	-.748	210	1815	-.152	.135	.353	-.675
210	1604	-.253	.186	.376	-.934	210	1710	-.273	.154	.369	-.839	210	1816	-.142	.132	.342	-.655
210	1605	-.270	.258	.739	-2.335	210	1711	-.259	.138	.187	-.770	210	1817	-.152	.131	.319	-.698
210	1606	-.317	.289	.654	-1.885	210	1712	-.267	.139	.182	-.806	210	1818	-.146	.133	.323	-.668
210	1607	-.116	.234	.605	-1.142	210	1713	-.271	.140	.183	-.806	210	1819	-.165	.137	.250	-1.022
210	1608	-.076	.157	.505	-.715	210	1714	-.312	.155	.201	-.844	210	1820	-.152	.129	.300	-.727
210	1609	-.190	.149	.321	-.660	210	1715	-.285	.163	.217	-1.324	210	1821	-.160	.119	.255	-.660
210	1610	-.238	.339	1.022	-1.529	210	1716	-.222	.146	.308	-.809	210	1822	-.142	.125	.302	-.664
210	1611	-.181	.377	.947	-1.506	210	1717	-.247	.148	.280	-.875	210	1823	-.167	.134	.280	-.839
210	1612	-.038	.219	.780	-1.072	210	1718	-.228	.146	.296	-.853	210	1824	-.172	.140	.255	-.908
210	1613	-.064	.152	.535	-.983	210	1719	-.234	.142	.244	-.960	210	1825	-.194	.151	.255	-.973
210	1614	-.152	.141	.357	-.887	210	1720	-.171	.143	.368	-1.139	210	1826	-.170	.147	.273	-.837
210	1615	-.286	.417	1.110	-1.978	210	1721	-.255	.154	.205	-1.026	210	1827	-.173	.151	.238	-.950
210	1616	-.131	.345	1.009	-1.361	210	1722	-.238	.151	.205	-.989	210	1828	-.180	.154	.228	-.1009
210	1617	-.016	.228	.995	-.955	210	1723	-.249	.148	.253	-.868	210	1829	-.204	.160	.211	-1.095
210	1618	-.087	.157	.541	-.752	210	1724	-.270	.153	.270	-.887	210	1830	-.203	.165	.322	-1.121

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	18331	214	1.173	.334	-1.653	210	1929	-.247	.140	.206	-.964	210	2427	.076	.111	.468	-.448
210	18332	204	1.168	.334	-1.383	210	1930	-.318	.170	.184	-.055	210	2428	.147	.113	.511	-.197
210	18333	226	1.157	.308	-1.266	210	2301	-.266	.165	.968	-.303	210	2429	.132	.106	.541	-.248
210	18334	227	1.139	.217	-1.181	210	2302	.250	.164	.918	-.322	210	2430	.142	.106	.545	-.235
210	18335	228	1.133	.217	-1.181	210	2303	.213	.163	1.136	-.299	210	2431	.136	.108	.596	-.240
210	18336	229	1.153	.342	-1.814	210	2304	.137	.169	1.092	-.665	210	2432	.145	.106	.607	-.235
210	18337	216	1.165	.241	-1.542	210	2305	.109	.161	1.020	-.491	210	2433	.144	.098	.529	-.162
210	18338	217	1.143	.241	-1.542	210	2306	.189	.148	.714	-.248	210	2434	.124	.096	.509	-.219
210	18339	218	1.143	.193	-1.179	210	2307	.170	.139	.738	-.299	210	2435	.122	.099	.492	-.240
210	1840	228	1.134	.160	-1.790	210	2308	.081	.157	.879	-.639	210	2501	.149	.154	.826	-.709
210	1841	222	1.130	.165	-1.776	210	2309	.081	.148	.788	-.598	210	2502	.171	.171	.883	-.341
210	1842	220	1.134	.197	-1.760	210	2310	.072	.142	.648	-.515	210	2503	.110	.177	.940	-.395
210	1843	220	1.150	.157	-1.765	210	2311	.225	.144	.793	-.179	210	2504	.154	.167	1.011	-.455
210	1844	226	1.143	.210	-1.818	210	2312	.181	.148	.766	-.274	210	2505	.169	.164	1.018	-.433
210	1845	227	1.196	.196	-1.799	210	2313	.150	.141	.618	-.294	210	2506	.172	.170	1.024	-.457
210	1846	223	1.144	.200	-1.798	210	2314	.087	.131	.508	-.340	210	2507	.210	.183	1.169	-.358
210	1847	223	1.144	.200	-1.798	210	2315	.087	.156	.850	-.390	210	2508	.212	.182	1.148	-.332
210	1848	229	1.142	.219	-1.823	210	2316	.011	.147	.466	-.499	210	2509	.210	.178	1.107	-.343
210	1849	217	1.148	.221	-1.875	210	2317	.006	.133	.405	-.429	210	2510	.194	.186	1.051	-.372
210	1850	157	1.139	.309	-1.656	210	2318	.010	.137	.412	-.429	210	2511	.145	.169	.878	-.328
210	1851	149	1.127	.347	-1.646	210	2319	.106	.153	.725	-.398	210	2512	.206	.179	.972	-.279
210	1852	123	1.125	.329	-1.551	210	2320	.127	.167	.956	-.378	210	2513	.228	.140	.752	-.246
210	1853	122	1.127	.271	-1.635	210	2321	.154	.150	.812	-.290	210	2514	.178	.180	.983	-.267
210	1854	116	1.127	.275	-1.654	210	2322	.152	.140	.723	-.298	210	2515	.101	.181	1.120	-.349
210	1901	303	1.170	.213	-1.383	210	2401	.139	.142	.933	-.579	210	2516	.121	.178	.798	-.360
210	1902	481	1.115	.115	-1.869	210	2402	.148	.146	.768	-.293	210	2517	.079	.197	.932	-.554
210	1903	325	1.183	.569	-1.125	210	2403	.140	.146	.697	-.335	210	2518	.037	.200	.901	-.508
210	1904	333	1.188	.409	-1.785	210	2404	.140	.147	.763	-.369	210	2519	.064	.188	.978	-.622
210	1905	333	1.184	.184	-1.010	210	2405	.093	.140	.595	-.404	210	2520	.091	.159	.656	-.432
210	1906	333	1.193	.274	-1.098	210	2406	.102	.135	.675	-.475	210	2521	.012	.132	.441	-.499
210	1907	333	1.171	.184	-1.033	210	2407	.122	.133	.712	-.372	210	2522	.030	.128	.510	-.406
210	1908	333	1.181	.349	-1.077	210	2408	.119	.138	.789	-.369	210	2523	.020	.141	.473	-.398
210	1909	333	1.155	.340	-1.005	210	2409	.105	.154	.859	-.474	210	2524	.002	.144	.487	-.497
210	1910	333	1.155	.340	-1.005	210	2410	.084	.129	.517	-.355	210	2525	.026	.144	.435	-.504
210	1911	511	1.383	1.180	-1.681	210	2411	.072	.128	.606	-.401	210	2526	.060	.144	.630	-.406
210	1912	213	1.133	1.445	-1.295	210	2412	.106	.123	.649	-.400	210	2527	.081	.151	.654	-.380
210	1913	500	1.162	1.186	-1.036	210	2413	.134	.137	.707	-.609	210	2528	.092	.150	.664	-.372
210	1914	386	1.153	1.186	-1.036	210	2414	.104	.150	.759	-.847	210	2529	.082	.150	.586	-.377
210	1915	348	1.187	1.184	-1.295	210	2415	.038	.136	.441	-.496	210	2530	.058	.143	.507	-.388
210	1916	206	1.127	1.163	-1.633	210	2416	.043	.147	.546	-.466	210	2601	.002	.181	.880	-.595
210	1917	489	1.250	1.154	-1.016	210	2417	.010	.143	.577	-.444	210	2602	.017	.173	.880	-.573
210	1918	284	1.163	1.191	-1.016	210	2418	.007	.181	.747	-.530	210	2603	.023	.152	.467	-.806
210	1919	389	1.139	1.261	-1.841	210	2419	.086	.179	.807	-.684	210	2604	.120	.147	.421	-.848
210	1920	389	1.139	1.261	-1.841	210	2420	.080	.127	.533	-.392	210	2605	.055	.217	.706	-.117
210	1921	381	1.199	1.261	-1.543	210	2421	.062	.127	.534	-.375	210	2606	.000	.185	.606	-.818
210	1922	333	1.197	1.261	-1.543	210	2422	.071	.118	.521	-.303	210	2607	.025	.153	.527	-.842
210	1923	333	1.197	1.261	-1.543	210	2423	.040	.131	.509	-.421	210	2608	.026	.140	.397	-.627
210	1924	333	1.197	1.261	-1.543	210	2424	.011	.134	.470	-.494	210	2609	.072	.137	.384	-.676
210	1925	333	1.198	1.261	-1.826	210	2425	.011	.110	.456	-.352	210	2610	.078	.197	.820	-.918
210	1926	333	1.188	1.261	-1.826	210	2426	.056	.130	.424	-.860	210	2611	.028	.174	.965	-.100
210	1927	333	1.154	1.194	-1.055												
210	1928	277	1.159	1.194	-1.055												



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	2612	-.008	.132	.702	-.545	210	2734	-.004	.124	.392	-.408	210	2921	-.367	.203	.238	-1.436
210	2613	-.089	.122	.481	-.563	210	2735	-.006	.130	.464	-.413	210	2922	-.274	.144	.117	-.844
210	2615	-.091	.163	.589	-.722	210	2736	-.041	.126	.435	-.456	210	2923	-.028	.151	.555	-.715
210	2616	-.105	.200	.568	-1.150	210	2737	-.158	.139	.319	-.669	210	2924	-.244	.138	.198	-.754
210	2617	-.008	.145	.476	-.573	210	2738	-.050	.123	.386	-.447	210	2925	-.331	.197	.170	-1.267
210	2618	-.063	.137	.357	-.548	210	2739	-.061	.127	.397	-.621	210	2926	-.212	.130	.181	-.731
210	2619	-.127	.135	.282	-.551	210	2801	-.354	.212	.193	-2.133	210	2927	-.156	.135	.321	-.659
210	2620	-.112	.150	.347	-.551	210	2802	-.316	.177	.230	-1.227	210	2928	-.078	.135	.528	-.711
210	2621	-.089	.142	.387	-.663	210	2803	-.270	.155	.257	-.894	210	2930	-.106	.124	.333	-.512
210	2622	-.057	.134	.407	-.593	210	2804	-.245	.148	.164	-.960	210	2931	-.035	.104	.335	-.425
210	2623	-.090	.135	.360	-.592	210	2805	-.292	.158	.276	-.745	210	2932	-.109	.109	.233	-.557
210	2624	-.116	.123	.345	-.539	210	2806	-.322	.163	.233	-1.152	210	2933	-.248	.111	.066	-.711
210	2625	-.050	.140	.393	-.624	210	2807	-.292	.144	.219	-.839	210	2934	-.260	.133	.188	-1.012
210	2626	-.042	.139	.386	-.690	210	2808	-.260	.139	.174	-.763	210	2935	-.102	.113	.252	-.630
210	2627	-.001	.133	.439	-.500	210	2809	-.263	.138	.188	-.781	220	1101	-.239	.153	.229	-.797
210	2628	-.004	.129	.374	-.506	210	2810	-.312	.160	.190	-1.046	220	1102	-.234	.153	.222	-.765
210	2629	-.044	.125	.423	-.468	210	2811	-.269	.150	.193	-.956	220	1103	-.237	.146	.267	-.813
210	2701	-.259	.168	.358	-1.153	210	2812	-.255	.148	.175	-.781	220	1104	-.199	.134	.270	-.697
210	2702	-.226	.155	.357	-1.111	210	2813	-.245	.152	.177	-.872	220	1105	-.223	.140	.262	-.724
210	2703	-.302	.181	.293	-1.133	210	2814	-.262	.156	.177	-.910	220	1106	-.230	.153	.281	-.904
210	2704	-.298	.175	.298	-1.133	210	2815	-.311	.163	.233	-1.117	220	1107	-.223	.151	.290	-.845
210	2705	-.315	.180	.231	-1.133	210	2816	-.319	.162	.211	-1.074	220	1108	-.220	.148	.277	-.785
210	2706	-.211	.130	.246	-.790	210	2817	-.295	.148	.151	-.814	220	1109	-.246	.132	.243	-.823
210	2707	-.204	.132	.228	-.763	210	2818	-.229	.139	.199	-.754	220	1110	-.216	.130	.240	-.661
210	2708	-.278	.149	.255	-.930	210	2819	-.226	.153	.214	-.962	220	1111	-.183	.136	.283	-.679
210	2709	-.201	.148	.232	-.778	210	2820	-.234	.142	.203	-.737	220	1112	-.204	.143	.289	-.744
210	2710	-.129	.154	.432	-.783	210	2821	-.245	.143	.200	-.775	220	1113	-.239	.137	.161	-.839
210	2711	-.067	.176	.627	-.762	210	2822	-.245	.142	.214	-.720	220	1114	-.227	.133	.154	-.722
210	2712	-.079	.162	.478	-.770	210	2823	-.185	.136	.300	-.643	220	1115	-.221	.130	.176	-.687
210	2713	-.297	.178	.264	-.698	210	2824	-.197	.147	.319	-.707	220	1116	-.230	.136	.212	-.770
210	2714	-.286	.136	.184	-.893	210	2901	-.062	.131	.561	-.384	220	1117	-.197	.131	.266	-.733
210	2715	-.214	.141	.293	-.893	210	2902	-.155	.165	.519	-.352	220	1118	-.198	.133	.231	-.583
210	2716	-.129	.143	.389	-.893	210	2903	-.104	.144	.949	-.310	220	1119	-.220	.129	.185	-.663
210	2717	-.091	.133	.343	-.554	210	2904	-.164	.152	.924	-.249	220	1120	-.243	.130	.146	-.725
210	2718	-.137	.151	.423	-.709	210	2905	-.175	.161	.059	-.281	220	1121	-.217	.126	.159	-.712
210	2719	-.205	.140	.213	-.698	210	2906	-.124	.146	.040	-.337	220	1122	-.221	.133	.222	-.730
210	2720	-.180	.138	.237	-.732	210	2907	-.216	.160	.002	-.261	220	1123	-.218	.136	.221	-.740
210	2721	-.166	.131	.314	-.721	210	2908	-.282	.180	.319	-.290	220	1124	-.251	.146	.222	-.910
210	2722	-.138	.134	.311	-.806	210	2909	-.067	.167	.977	-.614	220	1125	-.261	.137	.133	-.710
210	2723	-.116	.137	.360	-.690	210	2910	-.121	.149	.739	-.433	220	1126	-.220	.132	.166	-.653
210	2724	-.116	.139	.435	-.769	210	2911	-.141	.183	.849	-.560	220	1127	-.223	.119	.144	-.674
210	2725	-.168	.138	.293	-.758	210	2912	-.092	.142	.594	-.439	220	1128	-.228	.124	.142	-.710
210	2726	-.207	.144	.270	-.835	210	2913	-.016	.152	.695	-.578	220	1129	-.256	.129	.130	-.709
210	2727	-.148	.143	.311	-.692	210	2914	-.227	.155	.844	-.735	220	1130	-.237	.134	.148	-.740
210	2728	-.067	.134	.591	-.691	210	2915	-.038	.139	.575	-.735	220	1131	-.229	.122	.137	-.674
210	2729	-.028	.139	.495	-.557	210	2916	-.074	.153	.593	-.401	220	1132	-.226	.129	.133	-.788
210	2730	-.041	.139	.640	-.533	210	2917	-.204	.173	.002	-.273	220	1133	-.234	.130	.139	-.827
210	2731	-.143	.135	.258	-.800	210	2918	-.052	.163	.820	-.904	220	1134	-.274	.139	.129	-.834
210	2732	-.149	.135	.269	-.795	210	2919	-.053	.201	.469	-.557	220	1135	-.238	.140	.174	-.776
210	2733	-.014	.130	.400	-.423	210	2920	-.306	.155	.120	-1.126	220	1136	-.245	.154	.223	-.970

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	1137	233	136	253	655	220	1221	296	174	223	-1 246	220	1312	360	209	350	-1 079
220	1138	229	134	258	623	220	1222	319	172	179	-1 262	220	1313	346	185	215	-1 060
220	1139	278	142	259	728	220	1223	302	179	238	-1 371	220	1314	342	189	468	-1 103
220	1140	273	148	272	843	220	1224	326	196	260	-1 258	220	1315	298	181	384	-1 075
220	1141	272	152	188	935	220	1225	324	213	188	-1 802	220	1316	272	274	574	-1 255
220	1142	303	164	178	412	220	1226	349	205	147	-2 013	220	1317	314	251	477	-1 357
220	1143	150	136	267	741	220	1227	304	185	242	-1 468	220	1318	404	233	402	-1 277
220	1144	152	136	286	653	220	1228	326	181	318	-1 416	220	1319	372	203	212	-1 292
220	1145	178	143	296	847	220	1229	341	184	345	-1 347	220	1320	359	196	228	-1 166
220	1146	246	158	204	940	220	1230	392	204	149	-1 654	220	1321	300	288	680	-1 360
220	1147	257	149	222	949	220	1231	321	172	153	-1 595	220	1322	367	275	792	-1 309
220	1148	275	148	130	247	220	1232	324	173	269	-1 564	220	1323	402	245	438	-1 479
220	1149	101	124	280	66	220	1233	322	188	408	-1 579	220	1324	390	206	209	-1 261
220	1150	092	122	309	52	220	1234	341	182	195	-1 654	220	1325	321	179	228	-1 174
220	1151	114	126	339	74	220	1235	303	167	245	-1 913	220	1326	275	284	632	-1 724
220	1152	201	146	357	73	220	1236	291	157	339	-1 940	220	1327	283	276	684	-1 990
220	1153	227	141	237	48	220	1237	309	173	249	-1 494	220	1328	357	254	805	-1 693
220	1154	226	141	246	53	220	1238	325	181	234	-1 363	220	1329	389	201	381	-1 500
220	1155	068	129	389	26	220	1239	340	187	233	-1 245	220	1330	324	188	391	-1 088
220	1156	106	124	398	74	220	1240	248	153	362	-1 217	220	1331	248	241	739	-1 195
220	1157	124	125	395	34	220	1241	267	149	141	-1 068	220	1332	255	261	225	-1 432
220	1158	152	133	354	33	220	1242	290	161	178	-1 126	220	1333	328	239	959	-1 537
220	1159	183	137	255	92	220	1243	302	168	143	-1 178	220	1334	353	203	347	-1 618
220	1160	171	124	267	54	220	1244	341	188	130	-1 137	220	1335	340	183	192	-1 019
220	1161	096	124	444	50	220	1245	177	129	189	-1 735	220	1336	247	192	552	-1 240
220	1162	106	125	424	52	220	1246	154	133	261	-1 598	220	1337	295	185	442	-1 187
220	1163	073	123	495	81	220	1247	205	131	222	-1 700	220	1338	364	175	263	-1 448
220	1164	055	123	433	64	220	1248	230	140	218	-1 778	220	1339	347	146	105	-1 965
220	1165	071	121	419	87	220	1249	233	160	252	-1 973	220	1340	309	139	146	-1 890
220	1166	048	123	442	55	220	1250	082	123	374	-1 484	220	1341	170	180	679	-1 751
220	1201	259	166	203	84	220	1251	070	127	338	-1 534	220	1342	258	169	419	-1 884
220	1202	304	177	200	80	220	1252	113	124	251	-1 505	220	1344	315	141	144	-1 021
220	1203	289	180	180	63	220	1253	104	129	353	-1 742	220	1345	289	133	142	-1 837
220	1204	269	172	209	41	220	1254	109	135	346	-1 926	220	1346	095	167	610	-1 820
220	1205	264	173	251	69	220	1255	062	129	395	-1 471	220	1347	150	162	533	-1 860
220	1206	271	174	267	91	220	1256	037	130	445	-1 465	220	1348	245	153	297	-1 989
220	1207	269	182	334	32	220	1257	076	119	387	-1 435	220	1349	251	132	217	-1 819
220	1208	303	197	243	28	220	1258	075	114	337	-1 494	220	1350	230	129	260	-1 718
220	1209	314	199	243	31	220	1259	071	121	390	-1 492	220	1351	050	142	566	-1 619
220	1210	258	181	223	49	220	1300	337	189	228	-1 187	220	1352	104	120	417	-1 568
220	1211	302	179	248	50	220	1301	410	232	248	-1 342	220	1353	183	115	176	-1 741
220	1212	264	172	229	11	220	1302	526	290	243	-1 462	220	1354	171	106	202	-1 562
220	1213	285	184	272	15	220	1303	124	243	130	-1 313	220	1355	112	106	255	-1 540
220	1214	324	195	273	84	220	1305	162	211	970	-1 898	220	1356	072	123	391	-1 481
220	1215	286	187	285	79	220	1306	300	201	452	-1 993	220	1357	025	121	387	-1 499
220	1216	246	103	033	57	220	1307	418	227	239	-1 464	220	1358	070	121	317	-1 623
220	1217	271	163	285	72	220	1308	505	255	139	-1 748	220	1359	095	124	247	-1 871
220	1218	320	179	324	27	220	1309	478	239	372	-1 422	220	1360	095	122	269	-1 651
220	1219	309	179	345	66	220	1310	412	221	393	-1 229	220	1401	048	190	835	-1 748
220	1220	304	190	209	60	220	1311	238	248	669	-1 282	220	1402	052	224	1013	-1 764

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	1403	.006	.290	1.301	-.977	220	1453	.023	.140	.722	-.459	220	1544	.221	.204	.970	-.335
220	1404	-.004	.313	1.170	-.203	220	1454	.011	.142	.692	-.655	220	1545	.233	.189	.930	-.324
220	1405	-.042	.184	1.907	-.678	220	1455	.013	.096	.332	-.331	220	1546	.212	.175	1.153	-.331
220	1406	.056	.203	1.083	-.548	220	1456	.016	.122	.490	-.417	220	1547	.212	.177	1.138	-.394
220	1407	.086	.233	1.152	-.091	220	1457	.059	.134	.520	-.419	220	1548	.120	.178	.986	-.487
220	1408	.151	.273	1.257	-.063	220	1458	.068	.132	.528	-.414	220	1549	.113	.147	.652	-.362
220	1409	.082	.314	1.282	-.045	220	1459	.037	.136	.514	-.461	220	1550	.170	.163	.978	-.402
220	1410	-.118	.195	1.851	-.713	220	1460	.219	.241	1.096	-.519	220	1551	.154	.161	.824	-.482
220	1411	.031	.212	1.087	-.685	220	1461	.240	.232	1.160	-.495	220	1552	.195	.159	.823	-.252
220	1412	.270	.206	1.977	-.513	220	1462	.244	.227	1.196	-.485	220	1553	.237	.168	.921	-.301
220	1413	.271	.264	1.350	-.087	220	1463	.115	.202	.830	-.645	220	1554	.088	.143	.696	-.372
220	1414	.217	.322	1.456	-.109	220	1464	.040	.177	.618	-.716	220	1555	.119	.140	.704	-.332
220	1415	-.147	.188	1.536	-.878	220	1465	.307	.266	1.252	-.595	220	1556	.099	.136	.664	-.366
220	1416	.003	.194	1.907	-.600	220	1466	.308	.264	1.236	-.547	220	1557	.177	.142	.780	-.441
220	1417	.211	.209	1.160	-.533	220	1467	.326	.284	1.399	-.488	220	1558	.068	.143	.605	-.392
220	1418	.197	.264	1.180	-.816	220	1468	.359	.271	1.321	-.451	220	1559	.115	.142	.649	-.443
220	1419	.174	.317	1.180	-.385	220	1469	.271	.243	1.392	-.471	220	1560	.117	.157	.788	-.342
220	1420	-.143	.167	1.623	-.366	220	1470	.302	.246	1.238	-.481	220	1561	.153	.154	.800	-.259
220	1421	.023	.161	1.766	-.543	220	1471	.213	.228	1.082	-.680	220	1562	.065	.134	.504	-.443
220	1422	.120	.172	1.743	-.314	220	1472	.368	.309	1.603	-.563	220	1601	.420	.234	.357	-.162
220	1423	.104	.246	1.945	-.171	220	1473	.410	.318	1.585	-.604	220	1602	.365	.215	.414	-.110
220	1424	.049	.251	1.041	-.061	220	1474	.410	.298	1.506	-.426	220	1603	.291	.206	.345	-.139
220	1425	.120	.185	1.853	-.719	220	1475	.481	.298	1.420	-.362	220	1604	.273	.182	.338	-.116
220	1426	.049	.166	1.859	-.584	220	1476	.503	.306	1.481	-.420	220	1605	.386	.263	.319	-.164
220	1427	.091	.159	1.794	-.701	220	1477	.348	.268	1.343	-.531	220	1606	.407	.267	.474	-.202
220	1428	.056	.238	1.803	-.984	220	1478	.400	.260	1.395	-.523	220	1607	.299	.278	.524	-.166
220	1429	.024	.239	1.831	-.052	220	1479	.425	.267	1.390	-.643	220	1608	.179	.194	.444	-.132
220	1430	.162	.177	1.613	-.732	220	1480	.448	.273	1.361	-.643	220	1609	.224	.175	.301	-.178
220	1431	.044	.170	1.714	-.576	220	1481	.425	.277	1.370	-.576	220	1610	.410	.293	.725	-.172
220	1432	.079	.175	1.691	-.870	220	1482	.367	.287	1.310	-.668	220	1611	.378	.318	.911	-.159
220	1433	.081	.228	1.753	-.030	220	1483	.340	.259	1.244	-.757	220	1612	.087	.232	.648	-.120
220	1434	.035	.146	1.054	-.618	220	1484	.317	.225	1.248	-.370	220	1613	.114	.160	.417	-.103
220	1435	.157	.128	1.330	-.618	220	1485	.376	.249	1.214	-.423	220	1614	.164	.150	.450	-.196
220	1436	.018	.158	1.546	-.458	220	1486	.389	.249	1.215	-.228	220	1615	.495	.381	.689	-.214
220	1437	.053	.199	1.581	-.688	220	1487	.368	.255	1.327	-.699	220	1616	.330	.292	.600	-.160
220	1438	.091	.199	1.840	-.835	220	1488	.367	.249	1.269	-.462	220	1617	.152	.231	.345	-.139
220	1439	.038	.241	1.998	-.006	220	1489	.257	.239	1.300	-.463	220	1618	.164	.161	.271	-.162
220	1440	.166	.156	1.348	-.791	220	1490	.281	.220	1.242	-.387	220	1619	.183	.157	.264	-.166
220	1441	.068	.145	1.604	-.606	220	1491	.318	.234	1.372	-.425	220	1620	.356	.259	.796	-.159
220	1442	.042	.151	1.803	-.510	220	1492	.322	.232	1.352	-.383	220	1621	.350	.287	.798	-.150
220	1443	.014	.198	1.917	-.787	220	1493	.313	.232	1.340	-.407	220	1622	.108	.239	.577	-.141
220	1444	.003	.212	1.879	-.825	220	1494	.313	.244	1.371	-.467	220	1623	.106	.168	.459	-.117
220	1445	.092	.144	1.395	-.641	220	1495	.225	.234	1.196	-.646	220	1624	.157	.152	.286	-.137
220	1446	.033	.136	1.445	-.529	220	1496	.202	.202	1.178	-.427	220	1625	.399	.280	.583	-.237
220	1447	.040	.143	1.593	-.474	220	1497	.255	.217	1.213	-.379	220	1626	.327	.291	.675	-.178
220	1448	.000	.166	1.706	-.559	220	1498	.267	.207	1.181	-.246	220	1627	.136	.224	.480	-.114
220	1449	.001	.177	1.794	-.676	220	1499	.261	.207	1.118	-.282	220	1628	.141	.151	.276	-.102
220	1450	.028	.127	1.445	-.504	220	1500	.401	.206	1.108	-.303	220	1629	.204	.149	.749	-.108
220	1451	.025	.131	1.503	-.526	220	1501	.179	.202	1.014	-.379	220	1630	.332	.271	.749	-.108
220	1452	.034	.133	1.658	-.374	220	1502	.207	.198	1.040	-.367	220	1631	.353	.273	.468	-.140

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	1632	133	218	612	-1.208	220	1738	260	179	285	-1.439	220	1844	185	132	226	-1.769
220	1633	150	162	367	-1.875	220	1739	238	173	313	-1.039	220	1845	178	133	254	-1.795
220	16334	247	161	269	-1.967	220	1740	248	170	349	-1.861	220	1846	177	131	250	-1.777
220	16335	296	226	670	-1.121	220	1741	230	138	254	-1.752	220	1847	157	129	253	-1.718
220	16336	286	241	594	-1.288	220	1742	201	136	278	-1.693	220	1848	164	135	246	-1.795
220	16337	108	176	505	-1.029	220	1743	202	133	217	-1.670	220	1849	166	136	234	-1.787
220	1638	139	144	345	-1.714	220	1744	204	135	298	-1.706	220	1850	138	131	335	-1.547
220	1639	183	144	285	-1.759	220	1801	237	149	212	-1.894	220	1851	132	134	271	-1.510
220	1640	243	274	659	-1.992	220	1802	228	146	232	-1.886	220	1852	087	134	331	-1.445
220	1641	139	218	591	-1.331	220	1803	229	143	196	-1.801	220	1853	104	133	324	-1.452
220	1642	000	155	797	-1.567	220	1804	230	142	186	-1.876	220	1854	098	122	317	-1.435
220	1643	042	145	771	-1.454	220	1805	218	152	214	-1.876	220	1901	340	193	322	-1.233
220	1644	003	145	696	-1.619	220	1806	216	151	213	-1.880	220	1902	514	298	236	-2.020
220	1701	301	183	223	-1.119	220	1807	221	149	234	-1.868	220	1903	321	201	498	-1.338
220	1702	242	160	311	-1.893	220	1808	223	150	240	-1.913	220	1904	250	224	595	-1.025
220	1703	244	158	341	-1.894	220	1809	226	143	255	-1.938	220	1905	256	175	316	-1.006
220	1704	244	161	350	-1.891	220	1810	225	144	283	-1.915	220	1906	404	209	280	-1.578
220	1705	233	149	233	-1.154	220	1811	225	141	267	-1.859	220	1908	340	187	243	-1.093
220	1706	243	162	373	-1.945	220	1812	199	139	182	-1.724	220	1909	297	191	329	-1.344
220	1707	244	163	312	-1.928	220	1813	227	135	217	-1.724	220	1910	237	161	306	-1.006
220	1708	245	161	338	-1.997	220	1814	228	136	217	-1.872	220	1911	460	318	809	-1.373
220	1709	244	151	212	-1.036	220	1815	220	130	213	-1.770	220	1912	222	129	276	-1.666
220	1710	246	159	207	-1.086	220	1816	213	127	194	-1.757	220	1913	441	281	374	-1.438
220	1711	224	144	238	-1.851	220	1817	240	127	124	-1.807	220	1914	293	167	267	-1.862
220	1712	227	143	231	-1.869	220	1818	215	125	133	-1.700	220	1915	316	202	382	-1.239
220	1713	231	145	231	-1.927	220	1819	228	137	197	-1.834	220	1916	200	139	263	-1.636
220	1714	268	148	232	-1.107	220	1820	257	163	218	-1.407	220	1917	469	279	406	-1.391
220	1715	250	174	309	-1.422	220	1821	282	153	156	-1.178	220	1918	315	185	305	-1.369
220	1716	187	149	231	-1.018	220	1822	240	140	227	-1.020	220	1919	242	143	267	-1.828
220	1717	206	150	205	-1.945	220	1823	232	141	133	-1.754	220	1920	397	205	259	-1.189
220	1718	191	148	227	-1.997	220	1824	233	144	148	-1.992	220	1921	359	205	190	-1.641
220	1719	213	141	234	-1.792	220	1825	231	153	205	-1.925	220	1922	317	200	336	-2.028
220	1720	253	152	210	-1.983	220	1826	243	146	219	-1.835	220	1924	340	218	305	-2.331
220	1721	228	153	191	-1.937	220	1827	224	129	197	-1.794	220	1925	423	235	261	-1.605
220	1722	213	150	204	-1.961	220	1828	226	127	206	-1.866	220	1926	325	200	313	-1.589
220	1723	218	149	264	-1.896	220	1829	226	133	170	-1.854	220	1927	254	152	272	-1.155
220	1724	231	155	274	-1.087	220	1830	246	149	265	-1.916	220	1928	239	155	300	-1.964
220	1725	285	172	210	-1.409	220	1831	256	159	194	-1.221	220	1929	254	146	281	-1.963
220	1726	244	144	141	-1.011	220	1832	246	147	253	-1.291	220	1930	318	184	167	-1.217
220	1727	234	154	280	-1.820	220	1833	281	146	205	-1.366	220	2301	274	162	948	-1.301
220	1728	236	159	251	-1.097	220	1834	254	147	166	-1.225	220	2302	265	161	959	-1.290
220	1729	267	182	363	-1.939	220	1835	209	148	233	-1.966	220	2303	207	152	000	-2.287
220	1730	280	163	333	-1.273	220	1836	197	150	234	-1.998	220	2304	160	152	022	-1.530
220	1731	266	166	250	-1.206	220	1837	183	096	097	-1.549	220	2305	146	148	025	-1.381
220	1732	262	156	222	-1.279	220	1838	183	134	241	-1.760	220	2306	201	154	846	-1.267
220	1733	259	160	242	-1.931	220	1839	196	133	218	-1.817	220	2307	184	163	923	-1.390
220	1734	294	168	206	-1.002	220	1840	175	123	204	-1.575	220	2308	148	169	963	-1.384
220	1735	293	155	291	-1.007	220	1841	165	119	202	-1.559	220	2309	140	163	910	-1.340
220	1736	286	173	216	-1.239	220	1842	168	123	215	-1.675	220	2310	123	157	821	-1.358
220	1737	272	179	215	-1.368	220	1843	205	141	213	-1.922	220	2311	174	149	795	-1.238

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	2312	.147	.149	.786	-.374	220	2505	.132	.158	-.678	220	2626	-.095	.134	.346	-1.150	
220	2313	.175	.138	.738	-.268	220	2506	.140	.169	-.727	220	2627	-.047	.138	.355	-.519	
220	2314	.093	.127	.741	-.362	220	2507	.138	.156	-.839	220	2628	-.045	.129	.327	-.480	
220	2315	.079	.124	.655	-.345	220	2508	.138	.155	1.107	220	2629	-.066	.125	.338	-.426	
220	2316	.018	.151	.649	-.562	220	2509	.139	.150	.957	220	2701	-.234	.169	.263	-1.298	
220	2317	.010	.136	.406	-.531	220	2510	.116	.152	.836	220	2702	-.200	.151	.260	-.857	
220	2318	.010	.138	.441	-.601	220	2511	.048	.149	.830	220	2703	-.188	.142	.278	-.728	
220	2319	.057	.137	.769	-.365	220	2512	.104	.153	.686	220	2704	-.183	.137	.315	-.711	
220	2320	.065	.144	.884	-.323	220	2513	.133	.140	.799	220	2705	-.167	.140	.345	-.764	
220	2321	.104	.136	.897	-.294	220	2514	.099	.158	.854	220	2706	-.145	.122	.226	-.675	
220	2322	.097	.136	.846	-.310	220	2515	.021	.162	.855	220	2707	-.136	.122	.241	-.662	
220	2401	.144	.148	.876	-.558	220	2516	.046	.144	.727	220	2708	-.136	.141	.304	-.689	
220	2402	.131	.148	.768	-.497	220	2517	.022	.161	.749	220	2709	-.144	.132	.347	-.727	
220	2403	.125	.146	.801	-.359	220	2518	.014	.161	.589	220	2710	-.106	.144	.424	-.526	
220	2404	.122	.146	.878	-.339	220	2519	.019	.159	.643	220	2711	-.074	.166	.662	-.575	
220	2405	.100	.138	.590	-.875	220	2520	.040	.140	.741	220	2712	-.069	.158	.533	-.594	
220	2406	.105	.132	.621	-.633	220	2521	.055	.113	.330	220	2713	-.244	.158	.314	-1.067	
220	2407	.121	.127	.605	-.519	220	2522	.012	.110	.418	220	2714	-.234	.137	.214	-.762	
220	2408	.119	.129	.653	-.380	220	2523	.002	.105	.330	220	2715	-.197	.124	.213	-.645	
220	2409	.128	.157	.830	-.481	220	2524	.013	.107	.346	220	2716	-.132	.122	.230	-.579	
220	2410	.078	.132	.700	-.478	220	2525	.046	.109	.327	220	2717	-.109	.129	.384	-.560	
220	2411	.037	.126	.484	-.592	220	2526	.034	.127	.571	220	2718	-.132	.130	.327	-.612	
220	2412	.076	.118	.492	-.348	220	2527	.033	.135	.582	220	2719	-.186	.133	.194	-.652	
220	2413	.079	.131	.560	-.381	220	2528	.045	.133	.644	220	2720	-.154	.130	.213	-.593	
220	2414	.056	.142	.598	-.687	220	2529	.039	.133	.659	220	2721	-.158	.133	.328	-.566	
220	2415	.020	.133	.469	-.497	220	2530	.020	.139	.545	220	2722	-.143	.130	.340	-.586	
220	2416	.013	.133	.543	-.515	220	2601	.052	.167	.601	220	2723	-.134	.130	.328	-.548	
220	2417	.017	.127	.480	-.503	220	2602	.029	.158	.564	220	2724	-.108	.129	.346	-.572	
220	2418	.041	.150	.628	-.551	220	2603	.059	.149	.571	220	2725	-.154	.129	.214	-.634	
220	2419	.071	.164	.885	-.706	220	2604	.132	.146	.346	220	2726	-.197	.130	.185	-.745	
220	2420	.018	.119	.476	-.395	220	2605	.108	.207	.585	220	2727	-.134	.127	.318	-.615	
220	2421	.000	.120	.468	-.438	220	2606	.068	.188	.534	220	2728	-.074	.127	.370	-.479	
220	2422	.028	.114	.448	-.337	220	2607	.011	.155	.520	220	2729	-.046	.130	.418	-.445	
220	2423	.006	.108	.423	-.361	220	2608	.035	.140	.471	220	2730	-.052	.132	.456	-.503	
220	2424	.019	.111	.433	-.390	220	2609	.068	.128	.528	220	2731	-.141	.136	.336	-.638	
220	2425	.076	.119	.529	-.361	220	2610	.067	.199	.526	220	2732	-.147	.139	.389	-.690	
220	2426	.061	.112	.418	-.331	220	2611	.096	.173	.484	220	2733	-.051	.134	.490	-.564	
220	2427	.049	.112	.409	-.372	220	2612	.051	.131	.388	220	2734	-.033	.135	.451	-.518	
220	2428	.108	.115	.596	-.275	220	2613	.111	.123	.318	220	2735	-.019	.130	.450	-.528	
220	2429	.085	.099	.500	-.305	220	2615	.147	.154	.652	220	2736	-.046	.129	.412	-.538	
220	2430	.084	.098	.456	-.218	220	2616	.151	.178	.505	220	2737	-.141	.136	.381	-.526	
220	2431	.070	.100	.419	-.257	220	2617	.045	.129	.407	220	2738	-.057	.122	.388	-.534	
220	2432	.081	.098	.452	-.204	220	2618	.080	.127	.324	220	2739	-.068	.129	.366	-.538	
220	2433	.080	.099	.451	-.343	220	2619	.125	.128	.230	220	2801	-.173	.142	.344	-.732	
220	2434	.068	.098	.494	-.354	220	2620	.128	.120	.230	220	2802	-.203	.139	.316	-.654	
220	2435	.053	.100	.439	-.371	220	2621	.120	.121	.249	220	2803	-.172	.135	.303	-.777	
220	2501	.152	.152	.822	-.633	220	2622	.086	.115	.307	220	2804	-.159	.131	.289	-.693	
220	2502	.122	.151	.794	-.344	220	2623	.114	.116	.343	220	2805	-.169	.142	.339	-.709	
220	2503	.062	.152	.768	-.474	220	2624	.117	.117	.229	220	2806	-.170	.136	.297	-.984	
220	2504	.115	.162	.726	-.893	220	2625	.101	.134	.343	220	2807	-.161	.128	.280	-.667	



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	
220	2808	145	127	313	848	220	2935	87	102	270	476	230	1150	92	135	339	487	
220	2809	146	126	296	699	230	1101	230	151	257	774	230	1151	120	139	330	564	
220	2810	237	131	203	796	230	1102	224	150	253	804	230	1152	213	153	290	99	
220	2811	194	124	227	719	230	1103	116	147	355	723	230	1153	250	143	197	355	
220	2812	171	123	245	654	230	1104	105	140	350	672	230	1154	240	141	202	832	
220	2813	175	124	247	565	230	1105	119	142	372	757	230	1155	070	120	369	323	
220	2814	200	129	237	613	230	1106	218	152	267	963	230	1156	085	119	360	494	
220	2815	190	132	217	776	230	1107	212	149	274	770	230	1157	101	118	279	525	
220	2816	200	132	211	814	230	1108	205	146	273	732	230	1158	126	125	266	645	
220	2817	207	129	220	662	230	1109	100	122	276	540	230	1159	168	131	328	739	
220	2818	153	126	229	602	230	1110	109	133	311	613	230	1160	168	131	251	645	
220	2819	148	121	216	591	230	1111	095	136	299	587	230	1161	105	126	333	522	
220	2820	178	134	265	685	230	1112	140	140	299	688	230	1162	111	125	320	514	
220	2821	187	137	265	665	230	1113	233	149	221	866	230	1163	091	123	299	515	
220	2822	186	136	265	705	230	1114	215	143	248	824	230	1164	083	117	395	468	
220	2823	165	131	234	780	230	1115	207	141	243	817	230	1165	087	117	484	466	
220	2824	174	142	251	815	230	1116	093	107	226	480	230	1166	070	117	414	474	
220	2901	059	129	590	379	230	1117	097	131	273	624	230	1201	143	161	313	000	
220	2902	109	146	783	364	230	1118	094	139	351	707	230	1202	150	161	295	011	
220	2903	074	135	575	444	230	1119	253	135	302	711	230	1203	188	176	321	927	
220	2904	124	143	686	342	230	1120	256	137	260	729	230	1204	185	179	344	633	
220	2905	142	158	813	363	230	1121	230	131	230	669	230	1205	248	165	299	974	
220	2906	084	142	648	403	230	1122	219	120	216	625	230	1206	259	169	263	488	
220	2907	195	150	762	282	230	1123	233	123	228	625	230	1207	276	175	287	986	
220	2908	239	168	982	281	230	1124	233	128	228	642	230	1208	309	184	216	417	
220	2909	112	157	859	705	230	1125	257	134	266	693	230	1209	322	184	239	187	
220	2910	110	136	592	425	230	1126	258	133	292	639	230	1210	128	155	340	239	
220	2911	086	205	068	618	230	1127	253	130	164	709	230	1211	118	141	337	085	
220	2912	094	156	809	464	230	1128	261	134	145	868	230	1212	143	153	385	32	
220	2913	007	162	650	766	230	1129	266	137	138	747	230	1213	187	176	415	32	
220	2914	135	144	014	284	230	1130	252	139	166	904	230	1214	210	182	376	114	
220	2915	025	154	633	403	230	1131	264	136	157	786	230	1215	262	155	221	182	
220	2916	071	147	607	546	230	1132	272	141	179	958	230	1216	243	101	087	633	
220	2917	117	157	748	392	230	1133	281	139	174	1022	230	1217	291	166	226	145	
220	2918	097	168	643	908	230	1134	295	141	159	991	230	1218	319	177	275	125	
220	2919	086	187	540	896	230	1135	255	140	184	919	230	1219	308	178	243	281	
220	2920	194	141	238	711	230	1136	255	143	198	842	230	1220	316	174	130	399	
220	2921	233	171	315	075	230	1137	261	141	201	719	230	1221	319	162	121	005	
220	2922	177	138	241	693	230	1138	271	141	193	773	230	1222	319	162	114	252	
220	2923	059	154	505	823	230	1139	301	146	162	885	230	1223	306	162	180	124	
220	2924	173	133	278	678	230	1140	301	147	113	911	230	1224	303	172	169	403	
220	2925	194	147	253	860	230	1141	281	152	244	823	230	1225	359	180	184	555	
220	2926	199	132	246	758	230	1142	310	161	244	878	230	1226	360	168	135	689	
220	2927	172	134	272	666	230	1143	165	141	324	753	230	1227	331	169	224	427	
220	2928	127	137	328	589	230	1144	176	142	327	781	230	1228	323	164	191	147	
220	2929	097	116	245	457	230	1145	223	154	299	962	230	1229	339	167	175	326	
220	2930	062	098	266	576	230	1146	310	173	174	301	230	1230	375	186	240	347	
220	2931	093	098	237	421	230	1147	298	159	207	952	230	1231	327	180	237	284	
220	2932	093	098	237	475	230	1148	345	176	288	349	230	1232	348	169	147	036	
220	2933	167	101	164	522	230	1149	100	136	346	521	230	1233	355	173	152	293	
220	2934	171	106	165														

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2330	1234	.337	.168	.146	-1.205	2330	13225	.231	.216	.449	-1.120	2330	1416	.170	.237	1.147	-.531
2330	1235	.326	.171	.164	-1.203	2330	13226	.055	.238	.858	-1.176	2330	1417	.328	.258	1.401	-.432
2330	1236	.336	.165	.131	-1.128	2330	13227	.055	.240	.772	-1.297	2330	1418	.353	.279	1.560	-1.204
2330	1237	.381	.175	.124	-1.273	2330	13228	.179	.255	.928	-1.335	2330	1419	.347	.288	1.427	-1.472
2330	1238	.404	.179	.252	-1.174	2330	13229	.281	.203	4.669	-1.646	2330	1420	.046	.236	1.247	-.618
2330	1239	.412	.181	.277	-1.267	2330	1330	.218	.217	5.667	-1.613	2330	1421	.149	.240	1.428	-.497
2330	1240	.272	.149	.254	-1.817	2330	1331	.072	.233	.899	-1.181	2330	1422	.282	.220	1.295	-.281
2330	1241	.259	.154	.258	-1.026	2330	1332	.046	.254	.848	-1.127	2330	1423	.289	.238	1.320	-.854
2330	1242	.286	.170	.245	-1.416	2330	1333	.163	.248	5.889	-1.097	2330	1424	.253	.244	1.194	-.813
2330	1243	.317	.177	.158	-1.198	2330	1334	.256	.198	4.74	-1.060	2330	1425	.038	.240	.923	-.781
2330	1244	.350	.196	.217	-1.628	2330	1335	.250	.196	4.69	-1.168	2330	1426	.144	.263	1.063	-.524
2330	1245	.166	.127	.358	-1.583	2330	1336	.048	.177	6.924	-.639	2330	1427	.266	.259	1.373	-.438
2330	1246	.140	.133	.275	-1.669	2330	1337	.054	.195	7.144	-.788	2330	1428	.264	.258	1.256	-.983
2330	1247	.188	.128	.223	-1.703	2330	1338	.172	.189	5.666	-1.010	2330	1429	.217	.255	1.184	-1.072
2330	1248	.220	.135	.271	-1.931	2330	1339	.221	.140	3.338	-.774	2330	1430	.010	.211	.866	-.642
2330	1249	.213	.153	.253	-1.900	2330	1340	.175	.133	3.301	-.677	2330	1431	.117	.219	1.115	-.469
2330	1250	.062	.122	.523	-1.525	2330	1341	.103	.142	4.92	-.689	2330	1432	.228	.213	1.159	-.333
2330	1251	.051	.125	.487	-1.539	2330	1342	.122	.143	3.777	-.699	2330	1433	.222	.207	1.232	-.632
2330	1252	.092	.128	.331	-1.644	2330	1344	.185	.123	2.888	-.675	2330	1434	.182	.207	1.236	-.801
2330	1253	.092	.127	.331	-1.540	2330	1345	.161	.118	3.04	-.652	2330	1435	.062	.170	.760	-.924
2330	1254	.096	.134	.405	-1.619	2330	1346	.057	.130	4.51	-.671	2330	1436	.089	.155	.766	-.290
2330	1255	.022	.125	.464	-1.501	2330	1347	.080	.122	3.54	-.535	2330	1437	.090	.172	.837	-.451
2330	1256	.010	.122	.463	-1.498	2330	1348	.129	.114	2.75	-.673	2330	1438	.137	.178	.864	-.804
2330	1257	.046	.127	.513	-1.517	2330	1349	.143	.102	2.15	-.534	2330	1439	.133	.186	1.015	-.603
2330	1258	.059	.140	.502	-1.582	2330	1350	.129	.102	2.64	-.487	2330	1440	.079	.141	.388	-.500
2330	1259	.048	.127	.516	-1.461	2330	1351	.035	.114	4.27	-.434	2330	1441	.025	.142	.525	-.337
2330	1301	.289	.181	.347	-1.932	2330	1352	.071	.115	2.96	-.518	2330	1442	.053	.150	.653	-.539
2330	1302	.281	.225	.550	-1.171	2330	1353	.121	.114	2.39	-.554	2330	1443	.045	.168	.870	-.503
2330	1303	.379	.286	.633	-1.656	2330	1354	.116	.109	2.53	-.479	2330	1444	.064	.172	.919	-.513
2330	1304	.156	.270	1.414	-1.666	2330	1355	.062	.109	2.87	-.460	2330	1445	.053	.130	.368	-.534
2330	1305	.100	.289	1.177	-1.982	2330	1356	.052	.130	5.17	-.500	2330	1446	.017	.126	.429	-.478
2330	1306	.068	.189	.749	-1.788	2330	1357	.002	.139	5.44	-.445	2330	1447	.042	.133	.734	-.430
2330	1307	.189	.205	.476	-1.099	2330	1358	.032	.140	4.78	-.475	2330	1448	.014	.146	.793	-.526
2330	1308	.193	.213	.386	-1.270	2330	1359	.063	.129	4.29	-.657	2330	1449	.032	.151	.887	-.610
2330	1309	.148	.219	.520	-1.944	2330	1360	.068	.128	4.27	-.634	2330	1450	.014	.128	.539	-.451
2330	1310	.144	.222	.499	-1.053	2330	1401	.143	.207	1.163	-.546	2330	1451	.024	.133	.625	-.480
2330	1311	.092	.330	1.273	-1.021	2330	1402	.243	.237	1.388	-.625	2330	1452	.036	.134	.798	-.423
2330	1312	.087	.266	.891	-1.088	2330	1403	.313	.289	1.394	-.637	2330	1453	.018	.128	.534	-.481
2330	1313	.172	.220	.670	-1.340	2330	1404	.266	.317	1.463	-.886	2330	1454	.009	.130	.501	-.487
2330	1314	.204	.205	.557	-1.977	2330	1405	.190	.187	.872	-.515	2330	1455	.043	.099	.338	-.332
2330	1315	.090	.192	.531	-1.807	2330	1406	.281	.199	.931	-.458	2330	1456	.022	.126	.555	-.335
2330	1316	.045	.277	.881	-1.081	2330	1407	.346	.214	1.074	-.676	2330	1457	.050	.130	.703	-.392
2330	1317	.104	.307	.907	-1.230	2330	1408	.376	.238	1.182	-.844	2330	1458	.053	.130	.789	-.390
2330	1318	.264	.266	.800	-1.117	2330	1409	.377	.276	1.390	-.988	2330	1459	.019	.133	.735	-.451
2330	1319	.291	.200	.709	-1.032	2330	1410	.163	.212	1.176	-.487	2330	1501	.361	.260	1.368	-.354
2330	1320	.270	.212	.423	-1.073	2330	1411	.290	.286	1.244	-.365	2330	1502	.342	.238	1.189	-.408
2330	1321	.039	.278	.031	-1.868	2330	1412	.456	.285	1.322	-.451	2330	1503	.227	.222	1.069	-.504
2330	1322	.080	.303	.206	-1.387	2330	1413	.457	.294	1.412	-.603	2330	1504	.056	.189	.772	-.646
2330	1323	.198	.281	.796	-1.655	2330	1414	.433	.294	1.437	-.222	2330	1505	.111	.170	.501	-.838
2330	1324	.256	.199	.355	-1.060	2330	1415	.009	.223	1.931	-.647	2330	1506	.379	.284	1.301	-.425



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2330	1507	.381	.287	1.262	-.494	2330	1557	.137	.139	.744	-.285	2330	1701	-.167	.156	.419	-1.196
2330	1508	.429	.310	1.415	-.359	2330	1558	.019	.130	.448	-.472	2330	1702	-.151	.161	.430	-.982
2330	1509	.316	.246	1.174	-.456	2330	1559	.067	.129	.499	-.414	2330	1703	-.155	.164	.351	-.974
2330	1510	.243	.229	1.088	-.457	2330	1560	.069	.142	.649	-.421	2330	1704	-.241	.171	.294	-.914
2330	1511	.297	.263	1.458	-.518	2330	1561	.109	.141	.743	-.378	2330	1705	-.260	.163	.178	-1.038
2330	1512	.144	.303	1.038	-.681	2330	1562	.043	.129	.713	-.384	2330	1706	-.238	.167	.285	-.976
2330	1513	.384	.306	1.841	-.473	2330	1601	-.525	.260	.184	-.177	2330	1707	-.236	.166	.277	-.972
2330	1514	.443	.297	1.780	-.370	2330	1602	-.447	.240	.201	-.171	2330	1708	-.236	.165	.293	-.161
2330	1515	.466	.282	1.711	-.228	2330	1603	-.382	.232	.284	-.149	2330	1709	-.273	.170	.286	-1.309
2330	1516	.435	.281	1.657	-.394	2330	1604	-.318	.196	.238	-.121	2330	1710	-.279	.179	.252	-1.148
2330	1517	.491	.309	1.653	-.427	2330	1605	-.411	.306	.323	-.232	2330	1711	-.257	.164	.233	-.946
2330	1518	.247	.246	1.246	-.496	2330	1606	-.367	.261	.374	-.189	2330	1712	-.251	.157	.228	-.955
2330	1519	.293	.275	1.433	-.514	2330	1607	-.280	.266	.443	-.154	2330	1713	-.255	.161	.234	-.941
2330	1520	.299	.296	1.426	-.505	2330	1608	-.190	.206	.480	-.122	2330	1714	-.131	.148	.454	-.644
2330	1521	.364	.283	1.560	-.508	2330	1609	-.160	.200	.491	-.138	2330	1715	-.292	.180	.241	-1.267
2330	1522	.310	.284	1.485	-.624	2330	1610	-.534	.303	.499	-.234	2330	1716	-.254	.175	.427	-1.114
2330	1523	.238	.289	1.419	-.773	2330	1611	-.518	.324	.479	-.228	2330	1717	-.245	.169	.373	-1.008
2330	1524	.209	.275	1.205	-.701	2330	1612	-.303	.287	.393	-.155	2330	1718	-.252	.170	.366	-1.031
2330	1525	.251	.212	1.213	-.553	2330	1613	-.243	.206	.402	-.128	2330	1719	-.282	.159	.213	-1.042
2330	1526	.265	.227	1.110	-.703	2330	1614	-.252	.197	.406	-.114	2330	1720	-.280	.164	.246	-1.161
2330	1527	.302	.209	1.116	-.332	2330	1615	-.725	.448	.761	-.209	2330	1721	-.292	.181	.362	-1.199
2330	1528	.266	.210	1.171	-.400	2330	1616	-.573	.348	.756	-.203	2330	1722	-.296	.177	.326	-1.176
2330	1529	.273	.219	1.151	-.492	2330	1617	-.399	.313	.703	-.242	2330	1723	-.276	.190	.275	-1.248
2330	1530	.176	.214	1.181	-.401	2330	1618	-.338	.235	.411	-.117	2330	1724	-.294	.202	.299	-1.313
2330	1531	.189	.189	1.204	-.548	2330	1619	-.290	.214	.439	-.115	2330	1725	-.289	.169	.339	-1.235
2330	1532	.204	.210	1.336	-.559	2330	1620	-.505	.293	.678	-.125	2330	1726	-.276	.174	.270	-1.656
2330	1533	.257	.192	1.373	-.522	2330	1621	-.490	.306	.798	-.213	2330	1727	-.267	.184	.303	-1.161
2330	1534	.213	.191	1.315	-.379	2330	1622	-.350	.294	.547	-.116	2330	1728	-.280	.188	.261	-1.318
2330	1535	.196	.192	1.227	-.464	2330	1623	-.265	.215	.505	-.111	2330	1729	-.281	.216	.422	-2.038
2330	1536	.093	.194	1.947	-.946	2330	1624	-.290	.220	.322	-.208	2330	1730	-.291	.157	.330	-1.085
2330	1537	.150	.181	1.920	-.389	2330	1625	-.460	.266	.441	-.209	2330	1731	-.261	.170	.309	-1.168
2330	1538	.168	.196	1.019	-.544	2330	1626	-.454	.276	.379	-.223	2330	1732	-.250	.162	.268	-1.327
2330	1539	.206	.182	1.035	-.289	2330	1627	-.312	.265	.430	-.117	2330	1733	-.250	.167	.291	-1.318
2330	1540	.204	.176	1.475	-.436	2330	1628	-.265	.212	.431	-.111	2330	1734	-.296	.176	.262	-1.601
2330	1541	.208	.186	1.425	-.529	2330	1629	-.276	.223	.424	-.111	2330	1735	-.307	.162	.194	-1.186
2330	1542	.131	.189	1.298	-.652	2330	1630	-.477	.262	.383	-.111	2330	1736	-.277	.157	.254	-1.164
2330	1543	.125	.162	1.963	-.375	2330	1631	-.422	.244	.559	-.111	2330	1737	-.247	.155	.233	-1.021
2330	1544	.117	.174	1.963	-.402	2330	1632	-.289	.234	.358	-.211	2330	1738	-.271	.179	.192	-1.375
2330	1545	.163	.156	1.840	-.522	2330	1633	-.248	.198	.349	-.111	2330	1739	-.265	.194	.178	-1.465
2330	1546	.159	.152	1.870	-.332	2330	1634	-.308	.205	.300	-.211	2330	1740	-.261	.172	.419	-1.252
2330	1547	.168	.158	1.890	-.329	2330	1635	-.360	.205	.266	-.111	2330	1741	-.224	.133	.241	-.644
2330	1548	.063	.161	1.767	-.515	2330	1636	-.387	.216	.291	-.111	2330	1742	-.188	.131	.288	-.634
2330	1549	.092	.144	1.728	-.427	2330	1637	-.254	.204	.373	-.111	2330	1743	-.174	.127	.207	-1.719
2330	1550	.108	.141	1.655	-.379	2330	1638	-.211	.167	.284	-.111	2330	1744	-.179	.130	.246	-.625
2330	1551	.090	.139	1.560	-.433	2330	1640	-.222	.158	.242	-.111	2330	1801	-.245	.172	.270	-.902
2330	1552	.135	.136	1.611	-.352	2330	1641	-.284	.167	.413	-.200	2330	1802	-.237	.169	.279	-.982
2330	1553	.170	.146	1.784	-.254	2330	1642	-.092	.167	.376	-.111	2330	1803	-.241	.169	.296	-.862
2330	1554	.055	.139	1.652	-.555	2330	1643	-.012	.144	.519	-.111	2330	1804	-.246	.171	.297	-1.082
2330	1555	.078	.139	1.719	-.350	2330	1644	-.018	.153	.564	-.111	2330	1805	-.246	.161	.269	-1.046
2330	1556	.059	.138	1.673	-.363	2330	1644	-.018	.153	.614	-.111	2330	1806	-.237	.158	.296	-.946

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2330	1807	.2335	.154	.295	-.908	2330	1903	-.157	.190	.460	-1.122	2330	2403	.088	.142	.745	-.435
2330	1808	-.236	.153	.273	-.829	2330	1904	-.002	.195	.884	-.663	2330	2404	.077	.143	.861	-.402
2330	1809	-.234	.156	.313	-.973	2330	1905	-.141	.154	.432	-.881	2330	2405	.051	.166	.753	-.327
2330	1810	-.243	.167	.261	-1.177	2330	1906	-.298	.193	.270	-1.114	2330	2406	.061	.153	.721	-.320
2330	1811	-.236	.161	.239	-1.031	2330	1908	-.263	.176	.273	-1.202	2330	2407	.072	.148	.699	-.592
2330	1812	-.224	.150	.269	-.969	2330	1909	-.264	.203	.355	-1.195	2330	2408	.068	.150	.698	-.551
2330	1813	-.234	.142	.335	-.830	2330	1910	-.148	.160	.366	-1.195	2330	2409	.058	.153	.620	-.519
2330	1814	-.234	.143	.332	-.933	2330	1911	-.373	.299	1.418	-.512	2330	2410	.024	.142	.535	-.462
2330	1815	-.236	.152	.254	-.945	2330	1912	-.125	.134	1.440	-.584	2330	2411	-.026	.133	.438	-.589
2330	1816	-.235	.148	.243	-.952	2330	1913	-.398	.299	1.409	-.283	2330	2412	.030	.123	.491	-.492
2330	1817	-.264	.144	.219	-.862	2330	1914	-.210	.179	1.319	-.930	2330	2413	.045	.123	.524	-.326
2330	1818	-.242	.141	.218	-.812	2330	1915	-.286	.205	1.329	-1.152	2330	2414	.024	.128	.615	-.441
2330	1819	-.250	.143	.194	-.981	2330	1916	-.217	.141	1.190	-.722	2330	2415	-.015	.141	.469	-.477
2330	1820	-.275	.158	.170	-.946	2330	1917	-.368	.276	1.326	-.335	2330	2416	-.046	.140	.618	-.556
2330	1821	-.280	.149	.126	-.913	2330	1918	-.248	.190	1.333	-.234	2330	2417	-.072	.127	.468	-.471
2330	1822	-.243	.145	.168	-.812	2330	1919	-.235	.137	1.303	-.748	2330	2418	-.099	.138	.550	-.595
2330	1823	-.227	.129	.266	-.808	2330	1920	-.403	.219	1.230	-.530	2330	2419	.091	.148	.512	-.699
2330	1824	-.242	.135	.258	-1.108	2330	1921	-.407	.236	1.359	-1.191	2330	2420	-.028	.129	.371	-.333
2330	1825	-.268	.148	.183	-1.066	2330	1922	-.358	.220	1.374	-1.520	2330	2421	.047	.131	.388	-.544
2330	1826	-.237	.142	.198	-.955	2330	1924	-.380	.230	1.268	-1.471	2330	2422	.001	.116	.412	-.473
2330	1827	-.243	.141	.169	-1.004	2330	1925	-.529	.273	1.255	-1.760	2330	2423	.012	.128	.457	-.412
2330	1828	-.235	.133	.177	-.833	2330	1926	-.337	.225	1.311	-1.670	2330	2424	-.038	.130	.436	-.512
2330	1829	-.243	.141	.167	-.874	2330	1927	-.167	.160	1.434	-1.008	2330	2425	.057	.120	.621	-.325
2330	1830	-.255	.135	.177	-1.032	2330	1928	-.238	.174	1.317	-1.097	2330	2426	.028	.107	.370	-.444
2330	1831	-.242	.135	.219	-.927	2330	1929	-.147	.142	1.334	-.941	2330	2427	.008	.102	.383	-.418
2330	1832	-.242	.128	.146	-.890	2330	1930	-.370	.206	1.323	-1.450	2330	2428	.075	.105	.525	-.264
2330	1833	-.261	.127	.129	-.903	2330	23301	-.226	.156	1.943	-.236	2330	2429	.067	.102	.435	-.280
2330	1834	-.262	.146	.141	-.767	2330	23302	-.222	.155	1.951	-.579	2330	2430	.058	.100	.409	-.256
2330	1835	-.188	.131	.166	-.760	2330	23303	.162	.145	1.955	-.595	2330	2431	.029	.102	.404	-.208
2330	1836	-.178	.138	.365	-.627	2330	23304	.119	.139	1.806	-.579	2330	2432	.044	.098	.407	-.200
2330	1837	-.178	.099	.189	-.444	2330	23305	.100	.140	1.813	-.446	2330	2433	.053	.092	.367	-.284
2330	1838	-.191	.141	.340	-.726	2330	23306	.156	.145	1.813	-.302	2330	2434	.036	.092	.355	-.299
2330	1839	-.200	.139	.218	-.759	2330	23307	.157	.137	1.697	-.219	2330	2435	.016	.095	.349	-.244
2330	1840	-.174	.129	.200	-.601	2330	23308	.135	.138	1.672	-.333	2330	2501	.028	.156	.680	-.335
2330	1841	-.155	.124	.203	-.567	2330	23309	.121	.134	1.596	-.243	2330	2502	.026	.155	.696	-.333
2330	1842	-.166	.128	.198	-.637	2330	23310	.099	.130	1.576	-.304	2330	2503	.035	.149	.496	-.362
2330	1843	-.172	.123	.202	-.691	2330	23311	.159	.140	1.684	-.317	2330	2504	.018	.169	.848	-.621
2330	1844	-.172	.119	.216	-.652	2330	23312	.132	.141	1.647	-.324	2330	2505	.029	.165	.831	-.497
2330	1845	-.140	.119	.267	-.528	2330	23313	.119	.136	1.723	-.320	2330	2506	.038	.175	.972	-.518
2330	1846	-.144	.118	.257	-.515	2330	23314	.045	.135	1.533	-.355	2330	2507	.036	.155	.643	-.567
2330	1847	-.143	.117	.278	-.549	2330	23315	.043	.137	1.483	-.442	2330	2508	.049	.152	.706	-.529
2330	1848	-.161	.125	.260	-.617	2330	23316	-.053	.169	1.413	-.737	2330	2509	.056	.149	.729	-.515
2330	1849	-.157	.124	.260	-.615	2330	23317	-.045	.148	1.466	-.611	2330	2510	.031	.150	.671	-.587
2330	1850	-.127	.124	.346	-.492	2330	23318	-.044	.147	1.482	-.627	2330	2511	.028	.135	.731	-.608
2330	1851	-.122	.129	.355	-.600	2330	23319	.030	.132	1.986	-.465	2330	2512	.038	.135	.944	-.568
2330	1852	-.093	.127	.362	-.570	2330	23320	.036	.139	1.081	-.471	2330	2513	.065	.133	.867	-.531
2330	1853	-.097	.127	.360	-.585	2330	23321	.081	.130	1.105	-.415	2330	2514	.047	.160	.823	-.436
2330	1854	-.098	.127	.353	-.583	2330	23322	.080	.132	1.602	-.394	2330	2515	-.043	.163	.544	-.666
2330	1855	-.177	.122	.382	-.892	2330	2401	.063	.154	1.597	-.604	2330	2516	-.022	.145	.659	-.482
2330	1856	-.313	.264	.394	-.364	2330	2402	.093	.152	1.741	-.836	2330	2517	-.042	.166	.683	-.637

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN
2330	25118	.076	.169	.687	-.738	2330	27110	-.166	.126	.254	-.610	2330	28221	-.167	.123	.223	-.578
2330	25119	-.036	.169	.793	-.709	2330	27111	-.156	.133	.358	-.621	2330	28222	-.158	.123	.227	-.553
2330	25220	-.016	.145	.614	-.530	2330	27112	-.149	.133	.342	-.623	2330	28223	-.167	.133	.227	-.595
2330	25221	-.089	.136	.401	-.563	2330	27113	-.273	.144	.137	-.975	2330	28224	-.179	.142	.262	-.634
2330	25222	-.045	.132	.421	-.473	2330	27114	-.244	.120	.132	-.688	2330	29001	.045	.150	.996	-.428
2330	25223	-.040	.114	.392	-.396	2330	27115	-.239	.133	.209	-.797	2330	29002	.087	.156	.868	-.422
2330	25224	-.048	.114	.414	-.421	2330	27116	-.179	.130	.273	-.622	2330	29003	.058	.133	.471	-.344
2330	25225	-.084	.116	.391	-.458	2330	27117	-.150	.125	.299	-.550	2330	29004	.102	.139	.606	-.310
2330	25226	-.029	.124	.379	-.471	2330	27118	-.160	.139	.232	-.612	2330	29005	.119	.153	.849	-.331
2330	25227	-.037	.128	.390	-.431	2330	27119	-.221	.129	.238	-.680	2330	29006	.068	.138	.564	-.359
2330	25228	-.021	.127	.463	-.411	2330	27200	-.183	.125	.251	-.624	2330	29007	.151	.138	.770	-.292
2330	25229	-.019	.126	.481	-.405	2330	27221	-.185	.140	.328	-.629	2330	29008	.185	.153	.931	-.302
2330	25330	-.027	.124	.419	-.403	2330	27222	-.172	.144	.307	-.614	2330	29009	.077	.144	.770	-.604
2330	26001	-.151	.162	.348	-.795	2330	27223	-.166	.148	.382	-.628	2330	29100	-.069	.134	.713	-.422
2330	26002	-.121	.155	.420	-.747	2330	27224	-.121	.141	.391	-.621	2330	29101	-.044	.186	.918	-.760
2330	26003	-.123	.146	.314	-.642	2330	27225	-.169	.137	.238	-.641	2330	29102	-.038	.147	.662	-.592
2330	26004	-.166	.140	.257	-.793	2330	27226	-.216	.143	.212	-.700	2330	29103	-.056	.150	.629	-.736
2330	26005	-.224	.203	.388	-.640	2330	27227	-.151	.137	.301	-.623	2330	29104	-.089	.155	.868	-.447
2330	26006	-.163	.178	.398	-.078	2330	27228	-.101	.117	.266	-.507	2330	29105	-.040	.154	.581	-.123
2330	26007	-.097	.157	.472	-.047	2330	27229	-.081	.118	.328	-.480	2330	29106	-.023	.142	.725	-.424
2330	26008	-.108	.142	.345	-.332	2330	27230	-.076	.118	.290	-.477	2330	29107	-.077	.154	.967	-.439
2330	26009	-.123	.136	.355	-.553	2330	27231	-.151	.130	.250	-.612	2330	29108	-.143	.150	.532	-.944
2330	26110	-.234	.183	.644	-.064	2330	27232	-.150	.131	.263	-.733	2330	29109	-.164	.187	.576	-.113
2330	26111	-.192	.169	.644	-.044	2330	27233	-.084	.127	.313	-.468	2330	29110	-.163	.125	.277	-.688
2330	26112	-.117	.133	.403	-.616	2330	27234	-.055	.122	.229	-.427	2330	29201	-.188	.139	.336	-.031
2330	26113	-.169	.127	.335	-.507	2330	27235	-.058	.129	.367	-.468	2330	29202	-.158	.125	.269	-.704
2330	26115	-.202	.158	.321	-.005	2330	27236	-.069	.128	.383	-.472	2330	29203	-.108	.138	.341	-.847
2330	26116	-.217	.161	.280	-.000	2330	27237	-.140	.133	.322	-.603	2330	29204	-.170	.126	.233	-.717
2330	26117	-.097	.133	.320	-.585	2330	27238	-.082	.126	.390	-.503	2330	29205	-.158	.124	.255	-.665
2330	26118	-.131	.126	.400	-.530	2330	27239	-.083	.118	.269	-.542	2330	29206	-.200	.123	.194	-.806
2330	26119	-.168	.126	.323	-.586	2330	28001	-.143	.121	.261	-.614	2330	29207	-.182	.124	.181	-.665
2330	26220	-.161	.125	.329	-.604	2330	28002	-.180	.129	.339	-.660	2330	29208	-.159	.127	.233	-.662
2330	26221	-.153	.120	.323	-.607	2330	28003	-.155	.124	.259	-.579	2330	29300	-.114	.120	.312	-.635
2330	26222	-.121	.114	.215	-.500	2330	28004	-.152	.123	.265	-.579	2330	29301	-.074	.091	.228	-.359
2330	26223	-.143	.115	.236	-.526	2330	28005	-.176	.128	.201	-.641	2330	29302	-.085	.095	.254	-.440
2330	26224	-.145	.125	.280	-.551	2330	28006	-.150	.128	.271	-.573	2330	29303	-.136	.093	.136	-.512
2330	26225	-.137	.137	.295	-.533	2330	28007	-.149	.127	.245	-.556	2330	29304	-.135	.097	.170	-.524
2330	26226	-.132	.136	.303	-.551	2330	28008	-.149	.131	.250	-.531	2330	29305	-.081	.095	.260	-.447
2330	26227	-.095	.132	.388	-.658	2330	28009	-.151	.129	.339	-.608	2400	1101	-.283	.171	.212	-.970
2330	26228	-.075	.126	.412	-.490	2330	28010	-.241	.135	.198	-.651	2400	1102	-.263	.166	.243	-.902
2330	26229	-.101	.115	.254	-.491	2330	28111	-.192	.128	.215	-.634	2400	1103	-.218	.158	.212	-.982
2330	27001	-.219	.145	.208	-.355	2330	28112	-.163	.121	.229	-.635	2400	1104	-.198	.152	.239	-.001
2330	27002	-.195	.136	.204	-.333	2330	28113	-.171	.122	.254	-.636	2400	1105	-.209	.154	.209	-.918
2330	27003	-.170	.125	.271	-.665	2330	28114	-.201	.126	.242	-.598	2400	1106	-.299	.170	.247	-.430
2330	27004	-.177	.129	.202	-.675	2330	28115	-.171	.120	.267	-.630	2400	1107	-.277	.159	.238	-.211
2330	27005	-.149	.124	.266	-.866	2330	28116	-.183	.120	.254	-.578	2400	1108	-.360	.162	.178	-.032
2330	27006	-.169	.130	.277	-.670	2330	28117	-.202	.121	.259	-.624	2400	1109	-.186	.134	.176	-.682
2330	27007	-.163	.131	.282	-.592	2330	28118	-.148	.118	.247	-.534	2400	1110	-.198	.143	.188	-.851
2330	27008	-.259	.132	.169	-.727	2330	28119	-.153	.122	.247	-.614	2400	1111	-.188	.146	.312	-.773
2330	27009	-.167	.133	.290	-.641	2330	28200	-.158	.121	.226	-.568	2400	1112	-.205	.150	.271	-.869

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	1113	.265	.151	.206	-.914	240	1163	-.089	.113	.288	-.470	240	1247	-.152	.137	.307	-.709
240	1114	-.351	.161	.150	-1.100	240	1164	-.101	.111	.276	-.468	240	1248	-.197	.154	.282	-1.029
240	1115	-.250	.148	.220	-.817	240	1165	-.095	.110	.254	-.457	240	1249	-.235	.172	.294	-.984
240	1116	-.198	.109	.110	-.655	240	1166	-.086	.111	.279	-.445	240	1250	-.056	.119	.316	-.497
240	1117	-.206	.140	.246	-.819	240	1201	-.227	.161	.382	-1.025	240	1251	-.044	.119	.361	-.460
240	1118	-.182	.144	.327	-.665	240	1202	-.223	.161	.360	-1.001	240	1252	-.064	.117	.341	-.446
240	1119	-.248	.158	.278	-1.011	240	1203	-.278	.172	.332	-.960	240	1253	-.090	.124	.382	-.528
240	1120	-.247	.160	.285	-1.059	240	1204	-.313	.187	.299	-1.065	240	1254	-.098	.138	.336	-.597
240	1121	-.216	.152	.273	-.860	240	1205	-.292	.174	.260	-1.061	240	1255	-.017	.119	.338	-.452
240	1122	-.213	.145	.299	-.891	240	1206	-.392	.185	.172	-1.159	240	1256	-.016	.117	.447	-.450
240	1123	-.220	.148	.249	-.906	240	1207	-.453	.201	.193	-1.439	240	1257	-.039	.120	.415	-.522
240	1124	-.225	.151	.237	-.905	240	1208	-.369	.184	.163	-1.537	240	1258	-.050	.122	.392	-.488
240	1125	-.256	.144	.142	-.847	240	1209	-.495	.209	.105	-1.680	240	1259	-.050	.123	.361	-.600
240	1126	-.229	.142	.174	-.811	240	1210	-.260	.180	.238	-1.176	240	1301	-.265	.178	.346	-1.024
240	1127	-.232	.149	.200	-.843	240	1211	-.241	.159	.192	-1.079	240	1302	-.214	.192	.445	-1.217
240	1128	-.243	.153	.168	-.913	240	1212	-.306	.182	.222	-1.308	240	1303	-.256	.260	.659	-1.352
240	1129	-.236	.153	.170	-.872	240	1213	-.307	.183	.385	-1.525	240	1304	-.161	.251	1.095	-.669
240	1130	-.235	.153	.199	-.856	240	1214	-.315	.183	.385	-1.528	240	1305	-.138	.265	1.206	-.593
240	1131	-.251	.152	.160	-.914	240	1215	-.271	.193	.235	-1.317	240	1306	-.037	.203	.786	-.680
240	1132	-.277	.155	.116	-.790	240	1216	-.333	.132	.046	-.833	240	1307	-.143	.181	.598	-.759
240	1133	-.276	.155	.125	-.827	240	1217	-.270	.162	.220	-1.560	240	1308	-.110	.180	.410	-.989
240	1134	-.244	.150	.142	-.801	240	1218	-.277	.161	.209	-1.421	240	1309	-.063	.206	.727	-1.098
240	1135	-.263	.157	.165	-.916	240	1219	-.255	.159	.231	-1.563	240	1310	-.059	.213	.764	-.952
240	1136	-.266	.156	.322	-.958	240	1220	-.295	.185	.239	-1.200	240	1311	-.270	.291	1.148	-.851
240	1137	-.278	.155	.294	-.899	240	1221	-.299	.170	.244	-1.347	240	1312	-.041	.259	1.109	-.814
240	1138	-.312	.161	.234	-.989	240	1222	-.289	.165	.261	-1.347	240	1313	-.112	.210	.852	-.829
240	1139	-.314	.159	.197	-1.028	240	1223	-.270	.159	.177	-1.105	240	1314	-.176	.218	.612	-1.028
240	1141	-.312	.164	.163	-1.147	240	1224	-.290	.162	.307	-1.645	240	1315	-.019	.183	.577	-.710
240	1142	-.348	.173	.165	-.918	240	1225	-.331	.183	.283	-1.687	240	1316	-.168	.234	1.066	-.753
240	1143	-.200	.151	.157	-1.055	240	1226	-.320	.173	.293	-1.101	240	1317	-.154	.277	1.043	-1.013
240	1144	-.219	.153	.311	-1.098	240	1227	-.296	.167	.296	-1.024	240	1318	-.046	.275	.945	-1.074
240	1145	-.284	.170	.298	-.824	240	1228	-.314	.168	.297	-1.030	240	1319	-.121	.208	.546	-.878
240	1146	-.332	.187	.210	-.920	240	1229	-.332	.171	.192	-1.049	240	1320	-.151	.206	.569	-.849
240	1147	-.357	.171	.206	-1.166	240	1230	-.406	.191	.102	-1.506	240	1321	-.157	.223	1.147	-.927
240	1148	-.389	.171	.174	-.955	240	1231	-.419	.189	.209	-1.107	240	1322	-.145	.242	1.043	-.889
240	1149	-.095	.132	.267	-1.164	240	1232	-.413	.169	.160	-1.118	240	1323	-.007	.249	1.258	-1.060
240	1150	-.088	.133	.384	-.630	240	1233	-.419	.185	.076	-1.392	240	1324	-.080	.213	.790	-.890
240	1151	-.130	.148	.400	-.605	240	1234	-.459	.205	.180	-1.456	240	1325	-.131	.192	.501	-.946
240	1152	-.273	.191	.293	-.829	240	1235	-.419	.231	.198	-1.242	240	1326	-.107	.203	1.125	-.537
240	1153	-.303	.175	.267	-1.217	240	1236	-.419	.196	.177	-1.323	240	1327	-.119	.209	1.196	-.682
240	1154	-.282	.165	.225	-1.259	240	1237	-.412	.196	.304	-1.237	240	1328	-.023	.217	.918	-.921
240	1155	-.074	.118	.214	-1.061	240	1238	-.444	.200	.308	-1.380	240	1329	-.127	.179	.564	-.962
240	1156	-.089	.133	.333	-.449	240	1239	-.448	.199	.315	-1.323	240	1330	-.146	.184	.550	-1.356
240	1157	-.106	.133	.389	-.495	240	1240	-.242	.148	.396	-.903	240	1331	-.019	.190	.749	-.837
240	1158	-.147	.144	.419	-.572	240	1241	-.247	.153	.201	-.821	240	1332	-.035	.206	.825	-.858
240	1159	-.195	.150	.286	-.820	240	1242	-.284	.176	.260	-1.005	240	1333	-.099	.208	.733	-.921
240	1160	-.201	.152	.242	-.729	240	1243	-.414	.253	.193	-1.803	240	1334	-.181	.177	.337	-1.052
240	1161	-.096	.116	.300	-.688	240	1244	-.413	.229	.219	-1.664	240	1335	-.181	.165	.460	-1.055
240	1162	-.102	.116	.294	-.479	240	1245	-.146	.129	.239	-1.639	240	1336	-.028	.190	.829	-.681
240				.307	-.503	240	1246	-.147	.147	.354	-.612	240	1337	-.033	.214	1.170	-.674

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	1338	115	213	769	806	240	1429	317	214	1050	642	240	1520	231	248	275	573
240	1339	180	149	496	690	240	1430	134	207	910	560	240	1521	356	253	316	557
240	1340	130	145	429	714	240	1431	251	228	1233	436	240	1522	310	240	274	798
240	1341	054	152	518	668	240	1432	363	237	1158	297	240	1523	265	249	168	673
240	1342	046	159	532	619	240	1433	342	220	1122	350	240	1524	222	245	103	947
240	1344	150	147	478	674	240	1434	241	190	1030	276	240	1525	208	197	96	551
240	1345	127	134	433	696	240	1435	044	175	907	560	240	1526	179	202	99	675
240	1346	030	127	412	500	240	1436	160	156	774	285	240	1527	279	201	122	309
240	1347	020	125	383	410	240	1437	175	184	1073	463	240	1528	240	183	95	316
240	1348	050	125	402	591	240	1438	199	177	1014	392	240	1529	266	201	154	332
240	1349	094	118	380	553	240	1439	157	193	1074	562	240	1530	187	192	85	527
240	1350	077	113	271	566	240	1440	051	150	574	514	240	1531	161	168	75	483
240	1351	012	105	363	378	240	1441	055	138	513	525	240	1532	156	183	89	713
240	1352	031	113	356	409	240	1442	045	138	625	428	240	1533	267	181	89	457
240	1353	065	117	335	471	240	1443	030	138	685	533	240	1534	219	161	78	263
240	1354	070	114	325	520	240	1444	045	136	705	590	240	1535	205	180	93	398
240	1355	047	109	307	453	240	1445	044	118	404	476	240	1536	117	174	84	490
240	1356	044	120	401	417	240	1446	009	132	491	496	240	1537	096	162	77	435
240	1357	000	124	478	429	240	1447	025	133	616	416	240	1538	098	177	95	854
240	1358	017	125	422	499	240	1448	006	134	651	418	240	1539	199	173	87	476
240	1359	028	133	339	539	240	1449	025	136	512	453	240	1540	175	162	81	270
240	1360	033	131	350	533	240	1450	023	119	564	433	240	1541	198	177	94	300
240	1401	146	233	675	528	240	1451	023	124	547	445	240	1542	129	175	89	381
240	1402	248	265	259	436	240	1452	005	139	696	390	240	1543	071	167	70	462
240	1403	363	309	524	501	240	1453	019	132	436	553	240	1544	052	183	75	479
240	1404	315	317	485	669	240	1454	030	133	406	761	240	1545	144	180	114	390
240	1405	225	196	910	512	240	1455	042	099	385	341	240	1546	125	149	64	415
240	1406	288	209	023	456	240	1456	035	128	442	517	240	1547	154	163	78	371
240	1407	329	220	161	416	240	1457	045	125	541	417	240	1548	042	162	70	432
240	1408	339	234	254	751	240	1458	043	123	526	416	240	1549	035	150	56	509
240	1409	365	256	294	512	240	1459	014	125	505	457	240	1550	046	159	71	624
240	1410	266	239	122	375	240	1501	273	142	423	731	240	1551	069	148	63	509
240	1411	387	258	325	313	240	1502	244	245	1260	567	240	1552	140	143	75	256
240	1412	586	222	109	365	240	1503	150	209	1030	575	240	1553	188	169	95	338
240	1413	461	261	427	627	240	1504	010	191	773	762	240	1554	033	137	52	356
240	1414	412	260	410	627	240	1505	154	168	392	920	240	1555	049	139	55	354
240	1415	194	233	076	548	240	1506	200	194	1078	345	240	1556	043	139	54	361
240	1416	355	254	304	400	240	1507	190	193	185	370	240	1557	129	144	68	269
240	1417	489	275	446	336	240	1508	211	229	1365	465	240	1558	002	130	46	447
240	1418	480	254	361	470	240	1509	248	235	1418	545	240	1559	044	126	48	399
240	1419	372	244	402	577	240	1510	242	235	1199	629	240	1560	058	137	53	376
240	1420	216	219	055	524	240	1511	221	244	1017	601	240	1561	094	136	58	330
240	1421	334	236	274	357	240	1512	086	207	813	678	240	1562	022	121	43	434
240	1422	417	246	286	416	240	1513	224	264	1242	660	240	1601	437	215	22	420
240	1423	403	235	274	363	240	1514	294	260	1349	702	240	1602	461	215	22	509
240	1424	353	224	152	398	240	1515	390	258	1365	649	240	1603	332	195	29	477
240	1425	170	217	044	597	240	1516	295	268	1208	413	240	1604	326	182	25	312
240	1426	290	244	148	397	240	1517	418	287	1405	348	240	1605	382	271	30	244
240	1427	401	254	269	323	240	1518	194	233	1115	674	240	1606	350	238	31	646
240	1428	376	232	164	625	240	1519	225	228	1269	502	240	1607	314	208	31	460



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	16008	295	192	293	-1.028	240	1714	211	153	217	808	240	1820	234	146	294	-1.108
240	16009	286	207	352	-1.251	240	1715	296	176	180	354	240	1821	228	134	275	-1.039
240	16110	382	224	278	-1.653	240	1716	263	162	307	958	240	1822	199	136	345	-1.746
240	16111	494	222	195	-1.695	240	1717	251	157	262	892	240	1823	207	133	168	-1.753
240	16112	368	227	276	-1.608	240	1718	254	157	249	865	240	1824	232	138	139	-1.811
240	16113	311	209	365	-1.371	240	1719	294	170	211	120	240	1825	221	145	218	-1.907
240	16114	310	216	385	-1.575	240	1720	234	165	398	317	240	1826	194	139	231	-1.811
240	16115	385	288	292	-2.164	240	1721	287	169	192	977	240	1827	212	146	269	-1.699
240	16116	362	245	280	-1.731	240	1722	285	162	183	968	240	1828	248	154	279	-1.814
240	16117	313	219	287	-1.613	240	1723	299	177	284	120	240	1829	265	159	172	-1.883
240	16118	288	197	289	-1.516	240	1724	310	185	268	149	240	1830	211	155	285	-1.881
240	16119	313	205	300	-1.576	240	1725	241	165	294	147	240	1831	212	148	251	-1.743
240	16220	361	232	339	-1.771	240	1726	282	164	316	075	240	1832	228	153	229	-1.749
240	16221	357	240	387	-1.599	240	1727	278	176	393	100	240	1833	254	160	205	-1.965
240	16222	334	229	360	-1.394	240	1728	307	181	316	101	240	1834	356	164	117	-1.932
240	16223	373	244	300	-1.648	240	1729	305	200	294	533	240	1835	250	144	227	-1.822
240	16224	320	219	485	-1.470	240	1730	249	158	472	121	240	1836	205	134	262	-1.638
240	16225	330	208	211	-1.433	240	1731	305	170	245	067	240	1837	211	108	055	-1.560
240	16226	337	211	228	-1.538	240	1732	307	156	229	199	240	1838	227	147	208	-1.898
240	16227	361	224	284	-1.887	240	1733	318	160	220	070	240	1839	254	161	220	-1.974
240	16228	347	203	348	-1.403	240	1734	378	172	281	513	240	1840	190	131	228	-1.617
240	16229	355	235	422	-1.820	240	1735	271	176	392	075	240	1841	174	126	220	-1.628
240	16300	421	215	156	-2.132	240	1736	405	218	165	464	240	1842	182	135	243	-1.819
240	16301	405	186	110	-1.399	240	1737	361	200	167	291	240	1843	223	143	193	-1.804
240	16302	384	197	212	-1.498	240	1738	327	179	192	131	240	1844	202	135	224	-1.706
240	16303	356	206	266	-1.594	240	1739	334	199	202	98	240	1845	147	119	205	-1.547
240	16304	403	228	262	-1.939	240	1740	300	168	207	201	240	1846	145	119	211	-1.557
240	16305	423	202	191	-1.271	240	1741	208	134	224	656	240	1847	135	125	258	-1.532
240	16306	46	211	172	-1.281	240	1742	195	133	241	628	240	1848	149	135	255	-1.720
240	16307	41	223	209	-1.492	240	1743	210	137	433	749	240	1849	144	134	253	-1.747
240	16308	389	237	190	-1.559	240	1744	216	130	198	676	240	1850	157	130	254	-1.778
240	16309	389	239	191	-1.483	240	1801	274	151	227	986	240	1851	119	111	229	-1.541
240	1640	608	372	352	-2.380	240	1802	257	150	233	974	240	1852	105	108	247	-1.526
240	1641	465	279	262	-1.843	240	1803	352	163	117	070	240	1853	108	109	241	-1.531
240	1642	140	192	574	-1.215	240	1804	269	155	177	032	240	1854	109	109	242	-1.543
240	1643	030	164	817	-1.466	240	1805	271	163	237	839	240	1901	153	226	878	-1.086
240	1644	001	155	722	-1.478	240	1806	254	159	249	864	240	1902	195	241	415	-1.400
240	1701	239	156	262	-1.992	240	1807	347	170	184	133	240	1903	275	177	417	-1.267
240	1702	214	159	304	-1.185	240	1808	260	160	214	037	240	1904	034	210	832	-1.854
240	1703	222	163	314	-1.415	240	1809	273	151	251	118	240	1905	265	168	247	-1.086
240	1704	291	169	229	-1.107	240	1810	277	150	214	914	240	1906	390	181	167	-1.088
240	1705	280	164	237	-1.970	240	1811	369	157	147	990	240	1908	367	170	167	-1.040
240	1706	281	158	192	-1.006	240	1812	262	139	191	855	240	1909	348	201	371	-1.252
240	1707	276	157	197	-1.000	240	1813	270	148	228	823	240	1910	243	172	329	-1.978
240	1708	380	172	141	-1.112	240	1814	268	149	234	805	240	1911	268	176	612	-1.364
240	1709	383	183	176	-1.224	240	1815	208	143	200	056	240	1912	187	140	279	-1.705
240	1710	297	182	227	-1.529	240	1816	207	138	192	020	240	1913	356	241	298	-1.312
240	1711	283	172	236	-1.005	240	1817	203	131	170	044	240	1914	345	178	197	-1.427
240	1712	373	175	141	-1.002	240	1818	185	127	207	769	240	1915	283	181	351	-1.940
240	1713	283	166	205	-1.898	240	1819	218	148	215	821	240	1916	237	149	250	-1.786

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	1917	378	243	1.302	-.262	240	2416	-.096	.168	.527	-.681	240	2601	-.169	.166	.353	-1.042
240	1918	320	181	.447	-1.094	240	2417	-.133	.151	.571	-.752	240	2602	-.139	.161	.342	-.963
240	1919	384	173	.077	-.982	240	2418	-.153	.152	.433	-.717	240	2603	-.178	.154	.289	-.733
240	1920	333	222	.275	-1.237	240	2419	-.129	.142	.370	-.662	240	2604	-.211	.148	.225	-.792
240	1921	426	214	-.2	-.303	240	2420	-.074	.126	.346	-.746	240	2605	-.240	.182	.438	-1.541
240	1922	344	225	.461	-.333	240	2421	-.088	.124	.344	-.529	240	2606	-.191	.167	.439	-1.345
240	1924	371	224	-.240	-1.618	240	2422	-.029	.109	.379	-.410	240	2607	-.136	.157	.413	-1.119
240	1925	410	241	.182	-.424	240	2423	-.046	.117	.323	-.446	240	2608	-.134	.143	.353	-.816
240	1926	464	240	-.173	-1.698	240	2424	-.076	.118	.270	-.468	240	2609	-.160	.153	.353	-.816
240	1927	247	160	.303	-.340	240	2425	-.027	.118	.404	-.599	240	2610	-.257	.161	.222	-1.397
240	1928	276	167	.299	-1.237	240	2426	-.022	.100	.330	-.485	240	2611	-.218	.152	.333	-.819
240	1929	240	163	.246	-.931	240	2427	-.027	.094	.296	-.406	240	2612	-.162	.133	.286	-.605
240	1930	427	212	.362	-1.287	240	2428	-.044	.098	.419	-.327	240	2613	-.203	.138	.222	-.645
240	19301	250	181	1.109	-.298	240	2429	-.035	.100	.407	-.280	240	2615	-.243	.160	.222	-1.246
240	19302	252	181	1.109	-.298	240	2430	-.039	.099	.352	-.241	240	2616	-.268	.163	.199	-1.034
240	19303	288	170	1.109	-.316	240	2431	-.002	.104	.415	-.347	240	2617	-.144	.144	.338	-.581
240	19304	169	161	1.109	-.316	240	2432	-.018	.099	.410	-.302	240	2618	-.163	.131	.326	-.719
240	19305	138	160	.737	-.333	240	2433	-.021	.103	.431	-.329	240	2619	-.200	.133	.333	-.644
240	19306	202	135	.844	-.191	240	2434	-.006	.102	.412	-.331	240	2620	-.191	.132	.299	-.647
240	19307	191	149	.786	-.255	240	2435	-.019	.104	.343	-.344	240	2621	-.171	.132	.277	-.716
240	19308	175	149	.746	-.255	240	2436	-.040	.158	.602	-.021	240	2622	-.141	.125	.288	-.571
240	19309	152	143	.701	-.300	240	2437	-.008	.149	.609	-.756	240	2623	-.183	.133	.288	-.571
240	19310	115	140	.741	-.300	240	2438	-.063	.151	.436	-.843	240	2624	-.183	.133	.288	-.571
240	19311	145	133	1.000	-.333	240	2439	-.040	.153	.545	-.679	240	2625	-.175	.130	.288	-.571
240	19312	122	158	.945	-.333	240	2440	-.031	.147	.502	-.636	240	2626	-.179	.130	.333	-.640
240	19313	164	139	.691	-.469	240	2441	-.024	.155	.627	-.014	240	2627	-.134	.120	.333	-.640
240	19314	055	128	.522	-.469	240	2442	-.025	.154	.531	-.673	240	2628	-.122	.117	.341	-.543
240	19315	016	146	.496	-.434	240	2443	-.007	.147	.607	-.585	240	2629	-.118	.128	.370	-.544
240	19316	113	133	.656	-.837	240	2444	-.030	.141	.593	-.467	240	2630	-.237	.151	.222	-1.000
240	19317	102	152	.400	-.624	240	2445	-.005	.138	.647	-.483	240	2631	-.217	.143	.237	-1.121
240	19318	097	147	.609	-.333	240	2446	-.095	.145	.484	-.540	240	2632	-.170	.142	.237	-.851
240	19319	036	137	.654	-.333	240	2447	-.029	.147	.603	-.524	240	2633	-.206	.151	.256	-.751
240	19320	053	150	.734	-.333	240	2448	-.020	.120	.428	-.457	240	2634	-.149	.139	.237	-.692
240	19321	094	132	.749	-.322	240	2449	-.025	.153	.839	-.542	240	2635	-.186	.128	.233	-.853
240	19322	066	129	.559	-.419	240	2450	-.107	.158	.550	-.640	240	2636	-.184	.128	.233	-.853
240	19401	074	184	.802	-.846	240	2451	-.081	.144	.564	-.516	240	2637	-.302	.160	.177	-.700
240	19402	088	168	.733	-.666	240	2452	-.103	.156	.563	-.596	240	2638	-.180	.128	.220	-.700
240	19403	070	146	.704	-.525	240	2453	-.133	.165	.759	-.790	240	2639	-.156	.123	.220	-.647
240	19404	040	143	.670	-.742	240	2454	-.088	.167	.824	-.802	240	2640	-.153	.126	.336	-.672
240	19405	014	218	.638	-.724	240	2455	-.069	.159	.683	-.502	240	2641	-.149	.126	.327	-.819
240	19406	020	171	.779	-.975	240	2456	-.131	.125	.237	-.561	240	2642	-.307	.171	.180	-1.013
240	19407	037	158	.800	-.975	240	2457	-.091	.120	.258	-.483	240	2643	-.272	.128	.145	-.933
240	19408	032	157	.581	-.975	240	2458	-.078	.127	.408	-.548	240	2644	-.268	.145	.151	-.765
240	19409	029	137	.581	-.975	240	2459	-.085	.128	.414	-.545	240	2645	-.202	.141	.128	-.691
240	19410	002	149	.502	-.755	240	2460	-.115	.129	.334	-.544	240	2646	-.182	.126	.267	-.655
240	19411	094	149	.504	-.711	240	2461	-.088	.126	.344	-.466	240	2647	-.181	.126	.236	-.589
240	19412	015	123	.711	-.418	240	2462	-.072	.124	.342	-.538	240	2648	-.258	.139	.220	-.855
240	19413	010	135	.505	-.456	240	2463	-.065	.124	.340	-.445	240	2649	-.220	.135	.255	-.745
240	19414	034	140	.622	-.456	240	2464	-.054	.122	.355	-.484	240	2650	-.214	.134	.255	-.716
240	19415	072	141	.351	-.627	240	2465	-.062	.121	.338	-.425	240	2651	-.195	.130	.246	-.628



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	2723	185	133	290	649	240	2910	052	136	625	613	250	1126	355	154	133	860
240	2724	138	126	244	575	240	2911	064	191	777	825	250	1127	371	146	071	847
240	2725	172	122	203	712	240	2912	042	176	585	811	250	1128	388	154	068	916
240	2726	211	126	172	682	240	2913	034	163	584	024	250	1129	373	153	076	927
240	2727	161	122	209	603	240	2914	023	161	707	569	250	1130	367	157	126	966
240	2728	121	127	394	538	240	2915	045	171	495	039	250	1131	386	183	175	152
240	2729	100	128	481	523	240	2916	057	145	678	485	250	1132	401	181	231	098
240	2730	105	129	508	552	240	2917	011	157	675	458	250	1133	422	185	189	144
240	2731	159	133	292	549	240	2918	152	168	467	858	250	1134	422	187	151	142
240	2732	167	134	306	590	240	2919	227	209	357	303	250	1135	388	183	181	055
240	2733	120	130	362	586	240	2920	136	125	273	753	250	1136	384	178	125	127
240	2734	099	129	355	475	240	2921	168	138	249	755	250	1137	353	168	159	018
240	2735	079	116	332	455	240	2922	146	124	255	657	250	1138	373	164	122	997
240	2736	096	117	293	473	240	2923	133	151	510	769	250	1139	416	173	102	092
240	2737	140	122	206	561	240	2924	205	165	407	974	250	1140	441	176	045	185
240	2738	105	116	229	519	240	2925	142	124	396	621	250	1141	402	194	208	942
240	2739	088	111	333	588	240	2926	251	153	198	924	250	1142	440	206	184	877
240	2801	132	133	317	657	240	2927	242	152	231	898	250	1143	191	152	287	772
240	2802	216	136	275	557	240	2928	202	149	267	893	250	1144	217	156	256	893
240	2803	145	123	190	555	240	2930	130	135	392	558	250	1145	297	175	201	041
240	2804	152	124	194	568	240	2931	087	100	254	378	250	1146	433	202	185	389
240	2805	147	122	281	621	240	2932	113	094	189	451	250	1147	399	185	075	288
240	2806	130	127	259	541	240	2933	141	095	176	467	250	1148	436	198	112	401
240	2807	137	126	240	531	240	2934	149	098	169	628	250	1149	408	198	514	578
240	2808	154	135	245	581	240	2935	122	098	217	502	250	1150	077	135	411	578
240	2809	155	134	233	564	250	1101	344	168	171	119	250	1151	131	153	806	653
240	2810	261	136	107	807	250	1102	327	162	183	046	250	1152	333	191	722	280
240	2811	213	129	134	720	250	1103	344	178	257	126	250	1153	348	162	165	170
240	2812	197	137	247	722	250	1104	317	174	193	062	250	1154	313	154	178	949
240	2813	197	133	235	597	250	1105	330	176	176	083	250	1155	073	122	357	462
240	2814	231	140	220	634	250	1106	383	180	143	322	250	1156	087	115	379	581
240	2815	196	125	185	810	250	1107	356	161	161	101	250	1157	119	118	352	645
240	2816	211	126	172	864	250	1108	434	160	093	084	250	1158	189	150	310	014
240	2817	232	128	194	984	250	1109	312	155	137	066	250	1159	239	153	253	959
240	2818	170	118	250	573	250	1110	314	162	175	045	250	1160	113	149	195	746
240	2819	183	132	212	704	250	1111	301	146	186	757	250	1161	117	115	293	551
240	2820	170	132	253	676	250	1112	321	154	179	846	250	1162	113	114	302	607
240	2821	171	133	254	690	250	1113	344	164	121	370	250	1163	105	112	277	488
240	2822	179	135	245	746	250	1114	430	168	063	527	250	1164	099	108	322	502
240	2823	147	118	241	570	250	1115	325	147	128	932	250	1165	087	107	323	484
240	2824	168	127	239	664	250	1116	311	106	023	622	250	1166	077	108	346	478
240	2901	016	117	462	371	250	1117	312	140	179	767	250	1201	363	184	197	180
240	2902	079	150	932	359	250	1118	318	156	130	874	250	1202	376	190	179	265
240	2903	049	136	836	380	250	1119	353	165	095	166	250	1203	417	180	102	242
240	2904	105	151	824	379	250	1120	345	165	087	288	250	1204	479	206	054	319
240	2905	140	170	1303	346	250	1121	314	156	105	858	250	1205	374	188	216	292
240	2906	060	147	981	382	250	1122	295	151	241	930	250	1206	490	203	112	400
240	2907	154	141	969	298	250	1123	307	155	231	923	250	1207	578	211	012	520
240	2908	188	164	975	268	250	1124	306	159	237	018	250	1208	489	210	099	609
240	2909	084	165	1121	465	250	1125	381	156	076	909	250	1209	628	249	044	124

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
250	1210	372	192	162	-1.421	250	1301	272	174	324	-1.903	250	1352	036	096	301	-341
250	1211	366	169	182	-1.084	250	1302	184	191	714	-1.191	250	1353	049	096	271	-368
250	1212	468	196	134	-1.257	250	1303	144	238	799	-1.562	250	1354	065	102	241	-552
250	1213	503	225	127	-2.012	250	1304	178	1	309	-1.696	250	1355	128	126	397	-549
250	1214	506	224	102	-1.963	250	1305	147	1	377	-1.645	250	1356	031	113	348	-428
250	1215	371	212	229	-1.390	250	1306	005	1	025	-1.599	250	1357	003	121	406	-362
250	1216	403	124	048	-1.933	250	1307	119	1	691	-1.707	250	1358	005	123	412	-372
250	1217	424	192	219	-1.322	250	1308	090	1	73	-1.691	250	1359	026	126	419	-417
250	1218	429	196	060	-1.512	250	1309	037	1	765	-1.774	250	1360	030	126	444	-432
250	1219	407	189	087	-1.397	250	1310	027	1	770	-1.926	250	1401	086	238	1	245
250	1220	418	213	400	-1.766	250	1311	0	1	531	-1.675	250	1402	152	256	1	254
250	1221	421	196	346	-1.704	250	1312	129	1	488	-1.987	250	1403	182	266	1	460
250	1222	423	212	127	-2.202	250	1313	037	1	393	-1.079	250	1404	115	255	1	425
250	1223	402	206	122	-1.906	250	1314	082	1	899	-1.098	250	1405	226	224	1	070
250	1224	423	198	175	-1.977	250	1315	029	1	714	-1.601	250	1406	266	234	1	229
250	1225	470	213	110	-1.628	250	1316	204	1	017	-1.631	250	1407	292	240	1	356
250	1226	449	195	158	-1.358	250	1317	306	1	438	-1.646	250	1408	282	241	1	397
250	1227	429	182	144	-1.167	250	1318	125	1	478	-1.025	250	1409	216	202	1	934
250	1228	460	193	109	-1.666	250	1319	029	1	370	-1.909	250	1410	280	223	1	025
250	1229	478	195	113	-1.565	250	1320	004	1	070	-1.926	250	1411	363	232	1	149
250	1230	487	230	200	-1.647	250	1321	143	1	109	-1.652	250	1412	681	178	1	397
250	1231	434	185	105	-1.484	250	1322	186	1	998	-1.691	250	1413	440	252	1	305
250	1232	492	175	053	-1.337	250	1323	067	1	033	-1.867	250	1414	354	243	1	130
250	1233	474	182	086	-1.255	250	1324	038	1	798	-1.834	250	1415	302	236	1	468
250	1234	532	188	034	-1.604	250	1325	028	1	772	-1.918	250	1416	426	243	1	588
250	1235	451	202	197	-1.309	250	1326	092	1	909	-1.734	250	1417	501	249	1	494
250	1236	441	198	208	-1.372	250	1327	119	1	047	-1.842	250	1418	489	269	1	489
250	1237	499	200	018	-1.286	250	1328	011	1	049	-1.992	250	1419	367	241	1	163
250	1238	530	198	019	-1.398	250	1329	121	1	718	-1.806	250	1420	305	215	1	997
250	1239	523	197	012	-1.340	250	1330	097	1	171	-1.793	250	1421	404	225	1	101
250	1240	289	163	225	-1.119	250	1331	007	1	507	-1.592	250	1422	458	236	1	459
250	1241	262	169	308	-1.207	250	1332	068	1	833	-1.653	250	1423	403	229	1	412
250	1242	329	208	361	-1.354	250	1333	031	1	689	-1.687	250	1424	326	219	1	254
250	1243	455	235	184	-1.750	250	1334	113	1	474	-1.705	250	1425	237	196	1	072
250	1244	473	231	189	-1.662	250	1335	000	1	455	-1.685	250	1426	352	212	1	079
250	1245	152	133	243	-1.001	250	1336	063	1	768	-1.556	250	1427	444	226	1	231
250	1246	135	133	391	-1.709	250	1337	108	1	942	-1.568	250	1428	399	220	1	141
250	1247	141	155	347	-1.074	250	1338	001	1	803	-1.678	250	1429	323	211	1	052
250	1248	241	194	229	-1.956	250	1339	074	1	627	-1.597	250	1430	196	198	1	077
250	1249	277	196	204	-1.437	250	1340	031	1	540	-1.571	250	1431	308	218	1	284
250	1250	052	113	562	-1.401	250	1341	011	1	627	-1.556	250	1432	308	238	1	379
250	1251	044	113	553	-1.415	250	1342	079	1	704	-1.538	250	1433	357	231	1	411
250	1252	061	110	473	-1.421	250	1343	054	1	65	-1.675	250	1434	279	212	1	093
250	1253	078	126	441	-1.433	250	1344	045	1	734	-1.673	250	1435	066	163	1	681
250	1254	076	132	453	-1.950	250	1345	015	1	541	-1.457	250	1436	296	187	1	187
250	1255	017	119	468	-1.426	250	1346	023	1	609	-1.341	250	1437	154	174	1	717
250	1256	021	119	463	-1.425	250	1347	010	1	488	-1.377	250	1438	160	165	1	762
250	1257	036	108	320	-1.423	250	1348	041	1	456	-1.463	250	1439	123	174	1	056
250	1258	038	119	390	-1.452	250	1349	051	1	118	-1.524	250	1440	006	172	1	035
250	1259	054	116	313	-1.535	250	1350	041	1	369	-1.409	250	1441	046	193	1	087
250	1259	054	116	313	-1.535	250	1351	041	1	108	-1.409	250	1441	046	193	1	087

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
250	1442	.064	.180	1.079	-.452	250	1533	.260	.213	1.026	-.553	250	1621	-.287	.183	.241	-1.480
250	1443	.026	.166	.770	-.522	250	1534	.231	.182	.856	-.348	250	1622	-.303	.188	.208	-1.504
250	1444	.032	.157	.710	-.502	250	1535	.313	.197	1.015	-.302	250	1623	-.289	.168	.293	-1.054
250	1445	-.024	.148	.687	-.716	250	1536	.203	.186	.965	-.513	250	1624	-.306	.190	.255	-1.922
250	1446	-.011	.157	.826	-.558	250	1537	.088	.188	.751	-.548	250	1625	-.333	.196	.288	-1.744
250	1447	-.001	.153	.683	-.565	250	1538	.084	.200	.906	-.694	250	1626	-.344	.197	.285	-1.938
250	1448	-.028	.147	.448	-.515	250	1539	.228	.203	.908	-.687	250	1627	-.329	.185	.217	-1.338
250	1449	-.003	.148	.468	-.494	250	1540	.191	.160	.927	-.324	250	1628	-.365	.202	.297	-1.429
250	1450	-.058	.130	.591	-.599	250	1541	.219	.176	1.149	-.291	250	1629	-.377	.232	.261	-1.832
250	1451	.077	.135	.576	-.633	250	1542	.150	.170	1.084	-.367	250	1630	-.413	.191	.117	-1.243
250	1452	.037	.135	1.038	-.684	250	1543	.001	.155	.578	-.522	250	1631	-.425	.174	.048	-1.194
250	1453	.061	.130	.501	-.632	250	1544	.043	.172	.602	-.753	250	1632	-.456	.209	.170	-1.685
250	1454	.077	.137	.475	-.636	250	1545	.104	.171	.769	-.519	250	1633	-.479	.236	.153	-2.040
250	1455	.011	.108	.405	-.636	250	1546	.145	.143	.722	-.343	250	1634	-.533	.260	.180	-1.792
250	1456	.000	.122	.412	-.433	250	1547	.153	.153	.961	-.314	250	1635	-.462	.198	.157	-1.464
250	1457	.028	.120	.464	-.324	250	1548	.028	.154	.869	-.488	250	1636	-.505	.206	.122	-1.472
250	1458	.023	.119	.436	-.344	250	1549	.027	.146	.452	-.488	250	1637	-.477	.217	.136	-1.378
250	1459	.015	.119	.380	-.389	250	1550	.009	.140	.480	-.542	250	1638	-.443	.210	.138	-1.666
250	1501	.081	.251	1.133	-.556	250	1551	.031	.145	.657	-.664	250	1639	-.439	.211	.143	-1.594
250	1502	.067	.230	1.015	-.519	250	1552	.132	.150	.825	-.309	250	1640	-.704	.389	.184	-2.025
250	1503	.035	.201	.796	-.787	250	1553	.188	.187	.986	-.397	250	1641	-.480	.261	.240	-1.924
250	1504	.076	.165	.451	-.706	250	1554	.002	.127	.417	-.464	250	1642	-.154	.204	.491	-1.091
250	1505	.201	.150	.283	-.757	250	1555	.006	.126	.428	-.428	250	1643	.057	.174	.798	-.437
250	1506	.063	.184	.841	-.632	250	1556	.005	.132	.443	-.462	250	1644	-.029	.157	.686	-.446
250	1507	.046	.183	.803	-.660	250	1557	.131	.148	.737	-.286	250	1701	-.310	.147	.255	-.958
250	1508	.031	.194	.972	-.637	250	1558	.021	.138	.624	-.568	250	1702	-.295	.153	.162	-.888
250	1509	.076	.262	1.036	-.666	250	1559	.050	.144	.763	-.469	250	1703	-.304	.154	.156	-.901
250	1510	.141	.211	.953	-.545	250	1560	.042	.141	.680	-.360	250	1704	-.326	.146	.124	-1.018
250	1511	.168	.221	1.079	-.639	250	1561	.074	.140	.745	-.339	250	1705	-.310	.158	.319	-.866
250	1512	.050	.185	.873	-.519	250	1562	.011	.117	.439	-.437	250	1706	-.322	.142	.107	-.866
250	1513	.035	.220	.769	-.690	250	1601	-.456	.194	1.103	-1.399	250	1707	-.317	.142	.091	-.879
250	1514	.099	.220	.893	-.586	250	1602	-.451	.186	.096	-1.612	250	1708	-.417	.154	.015	-1.037
250	1515	.235	.264	1.041	-.888	250	1603	-.339	.166	.146	-1.304	250	1709	-.395	.163	.054	-1.029
250	1516	.241	.263	.189	-.594	250	1604	-.324	.164	.202	-1.341	250	1710	-.309	.155	.118	-.929
250	1517	.393	.276	.481	-.368	250	1605	-.362	.189	.155	-1.798	250	1711	-.319	.161	.245	-.866
250	1518	.158	.192	1.025	-.579	250	1606	-.351	.184	.144	-2.049	250	1712	-.411	.169	.182	-.990
250	1519	.151	.219	.960	-.495	250	1607	-.344	.167	.195	-1.231	250	1713	-.320	.158	.236	-.869
250	1520	.141	.232	.995	-.666	250	1608	-.350	.157	.161	-1.462	250	1714	-.316	.143	.128	-.841
250	1521	.338	.250	1.249	-.531	250	1609	-.347	.166	.172	-1.875	250	1715	-.346	.156	.073	-1.243
250	1522	.334	.225	1.151	-.537	250	1610	-.323	.160	.184	-1.191	250	1716	-.260	.140	.116	-1.047
250	1523	.315	.237	1.365	-.828	250	1611	-.424	.172	.124	-1.379	250	1717	-.247	.136	.160	-.888
250	1524	.265	.228	1.227	-.541	250	1612	-.321	.165	.177	-1.220	250	1718	-.255	.135	.100	-.888
250	1525	.126	.206	1.065	-.480	250	1613	-.341	.164	.151	-1.150	250	1719	-.258	.141	.139	-.808
250	1526	.114	.204	.763	-.837	250	1614	-.343	.177	.137	-1.286	250	1720	-.243	.147	.223	-.831
250	1527	.263	.225	.973	-.711	250	1615	-.318	.224	.209	-2.435	250	1721	-.267	.152	.222	-1.325
250	1528	.257	.181	.790	-.374	250	1616	-.312	.194	.191	-1.621	250	1722	-.268	.149	.214	-1.197
250	1529	.292	.196	.899	-.266	250	1617	-.298	.187	.179	-1.714	250	1723	-.291	.149	.271	-.895
250	1530	.239	.184	.930	-.401	250	1618	-.306	.181	.208	-1.585	250	1724	-.305	.157	.271	-.921
250	1531	.120	.186	.760	-.605	250	1619	-.288	.173	.223	-1.464	250	1725	-.280	.142	.137	-.921
250	1532	.101	.194	.775	-.696	250	1620	-.290	.179	.243	-1.224	250	1726	-.296	.158	.229	-1.030

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2550	1727	266	170	320	-1.074	2550	1833	353	175	243	-0.936	2550	2301	280	214	170	302
2550	1728	313	173	261	-1.043	2550	1834	347	174	148	-1.036	2550	2302	284	212	260	303
2550	1729	309	178	272	-1.212	2550	1835	299	154	208	-0.830	2550	2303	251	208	114	292
2550	1730	307	151	472	-1.913	2550	1836	252	137	176	-0.794	2550	2304	188	201	054	358
2550	1731	400	196	212	-1.322	2550	1837	250	109	065	-0.594	2550	2305	141	191	017	399
2550	1732	345	154	157	-1.981	2550	1838	255	147	003	-0.843	2550	2306	186	157	736	279
2550	1733	354	153	096	-1.029	2550	1839	268	150	066	-0.780	2550	2307	173	162	888	342
2550	1734	420	164	061	-1.146	2550	1840	187	129	209	-0.602	2550	2308	166	174	925	388
2550	1735	374	173	113	-1.184	2550	1841	171	123	159	-0.587	2550	2309	145	166	917	391
2550	1736	447	197	089	-1.349	2550	1842	175	132	251	-0.600	2550	2310	090	153	894	377
2550	1737	391	181	139	-1.202	2550	1843	184	150	354	-0.837	2550	2311	156	158	729	358
2550	1738	383	200	205	-1.402	2550	1844	207	145	177	-1.122	2550	2312	143	160	725	388
2550	1739	387	212	279	-1.291	2550	1845	147	120	253	-0.599	2550	2313	111	151	799	399
2550	1740	337	186	350	-1.101	2550	1846	142	118	553	-0.569	2550	2314	012	135	617	464
2550	1741	211	128	257	-1.690	2550	1847	129	123	250	-0.593	2550	2315	012	147	655	383
2550	1742	206	130	290	-1.658	2550	1848	135	128	244	-0.599	2550	2316	151	183	482	774
2550	1743	193	143	307	-1.746	2550	1849	129	127	257	-0.632	2550	2317	144	163	328	167
2550	1744	227	136	211	-1.685	2550	1850	130	126	336	-0.542	2550	2318	096	153	518	673
2550	1801	331	169	193	-1.939	2550	1851	115	114	357	-0.591	2550	2319	023	142	721	505
2550	1802	319	159	199	-1.943	2550	1852	110	113	331	-0.596	2550	2320	064	153	813	473
2550	1803	414	173	119	-1.076	2550	1853	107	114	330	-0.564	2550	2321	067	144	699	446
2550	1804	333	165	176	-1.909	2550	1854	110	114	334	-0.571	2550	2322	053	150	611	427
2550	1805	313	142	237	-1.817	2550	1901	067	283	920	-1.370	2550	2401	021	204	817	760
2550	1806	301	140	246	-1.868	2550	1902	136	193	535	-1.253	2550	2402	036	177	897	495
2550	1807	392	151	200	-1.000	2550	1903	397	189	124	-1.662	2550	2403	007	154	708	561
2550	1808	306	143	227	-1.797	2550	1904	025	188	667	-0.870	2550	2404	037	157	568	561
2550	1809	334	160	263	-1.977	2550	1905	455	211	213	-1.377	2550	2405	122	260	665	665
2550	1810	333	149	140	-1.999	2550	1906	474	173	167	-1.301	2550	2406	062	197	778	159
2550	1811	424	157	141	-1.939	2550	1908	461	170	137	-1.136	2550	2407	037	179	636	842
2550	1812	331	143	317	-1.770	2550	1909	467	195	110	-1.395	2550	2408	051	175	517	813
2550	1813	330	152	117	-1.851	2550	1910	412	206	146	-1.496	2550	2409	073	167	529	942
2550	1814	333	156	149	-1.907	2550	1911	081	242	161	-0.702	2550	2410	095	164	383	883
2550	1815	267	148	206	-1.852	2550	1912	308	144	191	-0.830	2550	2411	104	165	439	846
2550	1816	272	146	196	-1.765	2550	1913	224	245	085	-0.715	2550	2412	054	142	445	667
2550	1817	273	145	213	-1.838	2550	1914	419	191	101	-1.187	2550	2413	065	132	413	515
2550	1818	270	148	259	-1.923	2550	1915	392	189	101	-1.157	2550	2414	082	135	571	516
2550	1819	309	149	096	-1.872	2550	1916	278	144	190	-1.157	2550	2415	136	161	394	777
2550	1820	292	136	150	-1.765	2550	1917	340	245	447	-0.361	2550	2416	140	145	333	633
2550	1821	283	126	118	-1.728	2550	1918	383	165	361	-1.459	2550	2417	149	141	293	712
2550	1822	275	133	123	-1.750	2550	1919	432	155	336	-1.036	2550	2418	136	127	244	628
2550	1823	323	142	159	-1.849	2550	1920	316	161	238	-1.444	2550	2419	128	137	324	650
2550	1824	355	147	127	-1.849	2550	1921	461	219	186	-1.719	2550	2420	086	151	365	303
2550	1825	282	143	155	-1.963	2550	1922	354	193	306	-1.289	2550	2421	068	142	375	792
2550	1826	264	140	181	-1.923	2550	1924	392	205	309	-1.373	2550	2422	050	129	319	473
2550	1827	302	153	250	-1.977	2550	1925	553	191	266	-1.823	2550	2423	070	143	390	611
2550	1828	350	168	242	-1.061	2550	1926	457	185	116	-1.475	2550	2424	087	145	354	645
2550	1829	362	172	240	-1.013	2550	1927	338	158	142	-0.988	2550	2425	097	123	335	526
2550	1830	312	148	115	-1.893	2550	1928	344	160	175	-1.053	2550	2426	039	119	347	518
2550	1831	314	163	199	-1.886	2550	1929	318	142	170	-1.000	2550	2427	046	116	317	461
2550	1832	333	167	204	-1.917	2550	1930	427	186	139	-1.298	2550	2428	025	115	479	349



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2550	2429	.006	.106	.412	-.398	2550	2615	-.202	.142	.296	-.739	2550	2736	-.107	.116	.310	-.552
2550	2430	.023	.108	.451	-.427	2550	2616	-.196	.139	.269	-.785	2550	2737	-.120	.117	.238	-.593
2550	2431	.012	.110	.397	-.461	2550	2617	-.154	.125	.249	-.668	2550	2738	-.101	.114	.243	-.527
2550	2432	.006	.105	.380	-.440	2550	2618	-.181	.125	.326	-.569	2550	2739	-.087	.122	.339	-.606
2550	2433	.025	.107	.481	-.394	2550	2619	-.205	.128	.309	-.654	2550	2801	-.149	.128	.325	-.570
2550	2434	.014	.105	.433	-.341	2550	2620	-.188	.140	.275	-.617	2550	2802	-.170	.130	.234	-.608
2550	2435	.024	.106	.377	-.222	2550	2621	-.184	.131	.328	-.660	2550	2803	-.173	.120	.181	-.652
2550	2501	-.140	.189	.428	-.988	2550	2622	-.152	.127	.318	-.609	2550	2804	-.177	.121	.167	-.652
2550	2502	-.120	.157	.415	-.875	2550	2623	-.136	.125	.333	-.593	2550	2805	-.179	.124	.224	-.579
2550	2503	-.160	.158	.334	-.108	2550	2624	-.167	.133	.281	-.562	2550	2806	-.171	.125	.243	-.660
2550	2504	-.130	.162	.427	-.846	2550	2625	-.198	.136	.278	-.789	2550	2807	-.172	.122	.243	-.660
2550	2505	-.117	.157	.418	-.784	2550	2626	-.195	.136	.287	-.720	2550	2808	-.177	.131	.275	-.646
2550	2506	-.117	.164	.488	-.693	2550	2627	-.150	.128	.307	-.649	2550	2809	-.182	.131	.256	-.632
2550	2507	-.108	.151	.342	-.955	2550	2628	-.134	.124	.307	-.529	2550	2810	-.222	.132	.165	-.728
2550	2508	-.074	.147	.437	-.885	2550	2629	-.142	.125	.351	-.554	2550	2811	-.221	.130	.161	-.705
2550	2509	-.038	.142	.476	-.744	2550	2701	-.225	.148	.256	-.867	2550	2812	-.187	.136	.192	-.705
2550	2510	-.054	.137	.505	-.853	2550	2702	-.217	.143	.304	-.821	2550	2813	-.159	.131	.243	-.586
2550	2511	-.122	.145	.618	-.721	2550	2703	-.207	.139	.290	-.814	2550	2814	-.160	.131	.248	-.572
2550	2512	-.105	.154	.482	-.696	2550	2704	-.185	.139	.241	-.813	2550	2815	-.197	.137	.271	-.877
2550	2513	-.086	.135	.379	-.798	2550	2705	-.172	.133	.356	-.688	2550	2816	-.196	.137	.269	-.830
2550	2514	-.085	.154	.551	-.666	2550	2706	-.244	.149	.152	-.852	2550	2817	-.172	.134	.227	-.696
2550	2515	-.118	.146	.395	-.639	2550	2707	-.235	.150	.164	-.877	2550	2818	-.143	.121	.262	-.578
2550	2516	-.147	.146	.452	-.550	2550	2708	-.259	.150	.182	-.856	2550	2819	-.146	.116	.255	-.644
2550	2517	-.150	.150	.554	-.660	2550	2709	-.229	.146	.177	-.838	2550	2820	-.157	.135	.259	-.644
2550	2518	-.147	.156	.514	-.555	2550	2710	-.197	.127	.219	-.655	2550	2821	-.152	.135	.270	-.653
2550	2519	-.152	.164	.345	-.702	2550	2711	-.196	.128	.227	-.647	2550	2822	-.144	.131	.271	-.553
2550	2520	-.114	.132	.287	-.686	2550	2712	-.184	.127	.236	-.618	2550	2823	-.131	.131	.237	-.581
2550	2521	-.118	.153	.279	-.783	2550	2713	-.256	.150	.221	-.097	2550	2824	-.144	.137	.223	-.633
2550	2522	-.123	.152	.356	-.717	2550	2714	-.333	.182	.195	-.280	2550	2901	-.005	.138	.462	-.445
2550	2523	-.103	.137	.347	-.483	2550	2715	-.232	.149	.311	-.038	2550	2902	.097	.193	.404	-.430
2550	2524	-.092	.135	.344	-.502	2550	2716	-.209	.146	.292	-.870	2550	2903	.035	.136	.538	-.378
2550	2525	-.086	.134	.236	-.507	2550	2717	-.186	.134	.226	-.666	2550	2904	.108	.158	.827	-.346
2550	2526	-.131	.128	.246	-.599	2550	2718	-.193	.125	.171	-.706	2550	2905	.149	.182	.057	-.324
2550	2527	-.121	.121	.348	-.521	2550	2719	-.234	.138	.299	-.792	2550	2906	.063	.153	.715	-.427
2550	2528	-.100	.121	.345	-.518	2550	2720	-.251	.140	.292	-.890	2550	2907	.156	.160	.927	-.406
2550	2529	-.074	.121	.401	-.514	2550	2721	-.228	.141	.175	-.719	2550	2908	.185	.179	.927	-.404
2550	2530	-.067	.124	.263	-.514	2550	2722	-.184	.132	.226	-.604	2550	2909	.031	.200	.990	-.811
2550	2601	-.253	.190	.310	-.008	2550	2723	-.141	.129	.299	-.570	2550	2910	-.033	.157	.606	-.768
2550	2602	-.222	.178	.238	-.145	2550	2724	-.142	.126	.246	-.541	2550	2911	-.112	.209	.663	-.888
2550	2603	-.231	.163	.245	-.914	2550	2725	-.158	.117	.216	-.581	2550	2912	-.173	.188	.348	-.954
2550	2604	-.235	.151	.204	-.121	2550	2726	-.197	.121	.187	-.624	2550	2913	-.054	.158	.573	-.726
2550	2605	-.304	.190	.245	-.121	2550	2727	-.154	.118	.241	-.582	2550	2914	-.031	.155	.433	-.637
2550	2606	-.261	.178	.204	-.121	2550	2728	-.138	.122	.370	-.528	2550	2915	-.127	.219	.439	-.633
2550	2607	-.206	.168	.265	-.029	2550	2729	-.118	.122	.381	-.490	2550	2916	-.029	.151	.609	-.459
2550	2608	-.202	.149	.160	-.922	2550	2730	-.111	.124	.398	-.487	2550	2917	-.046	.145	.635	-.653
2550	2609	-.227	.150	.259	-.914	2550	2731	-.161	.121	.220	-.586	2550	2918	-.156	.192	.655	-.118
2550	2610	-.280	.160	.217	-.121	2550	2732	-.167	.121	.220	-.593	2550	2919	-.293	.221	.711	-.339
2550	2611	-.238	.151	.275	-.949	2550	2733	-.142	.119	.267	-.567	2550	2920	-.148	.130	.633	-.633
2550	2612	-.178	.132	.275	-.663	2550	2734	-.117	.118	.282	-.514	2550	2921	-.205	.151	.338	-.933
2550	2613	-.194	.134	.253	-.764	2550	2735	-.101	.114	.322	-.502	2550	2922	-.169	.129	.216	-.701

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	1139	.412	.201	.165	-1.349	260	1223	.501	.234	.222	-2.043	260	1223	.501	.234	.222	-2.043
260	1140	.437	.213	.161	-1.521	260	1224	.543	.275	.146	-2.384	260	1224	.543	.275	.146	-2.384
260	1141	.381	.193	.181	-1.319	260	1225	.465	.255	.383	-1.832	260	1225	.465	.255	.383	-1.832
260	1142	.419	.207	.115	-1.387	260	1226	.441	.241	.344	-1.478	260	1226	.441	.241	.344	-1.478
260	1143	.179	.140	.286	-1.831	260	1227	.494	.256	.440	-2.170	260	1227	.494	.256	.440	-2.170
260	1144	.206	.141	.319	-1.787	260	1228	.482	.240	.178	-1.755	260	1228	.482	.240	.178	-1.755
260	1145	.279	.167	.284	-1.153	260	1229	.499	.240	.119	-1.860	260	1229	.499	.240	.119	-1.860
260	1146	.400	.215	.171	-1.314	260	1230	.457	.230	.171	-1.549	260	1230	.457	.230	.171	-1.549
260	1147	.390	.204	.241	-1.363	260	1231	.506	.242	.132	-1.827	260	1231	.506	.242	.132	-1.827
260	1148	.438	.226	.180	-1.670	260	1232	.508	.239	.301	-1.831	260	1232	.508	.239	.301	-1.831
260	1149	.092	.128	.565	-1.602	260	1233	.493	.206	.138	-1.817	260	1233	.493	.206	.138	-1.817
260	1150	.079	.130	.515	-1.585	260	1234	.517	.211	.064	-1.678	260	1234	.517	.211	.064	-1.678
260	1151	.140	.149	.354	-1.835	260	1235	.464	.240	.223	-1.730	260	1235	.464	.240	.223	-1.730
260	1152	.355	.211	.339	-1.268	260	1236	.403	.217	.223	-1.151	260	1236	.403	.217	.223	-1.151
260	1153	.363	.188	.257	-1.150	260	1237	.480	.248	.267	-1.904	260	1237	.480	.248	.267	-1.904
260	1154	.335	.185	.291	-1.154	260	1238	.520	.249	.238	-2.438	260	1238	.520	.249	.238	-2.438
260	1155	.080	.128	.315	-1.485	260	1239	.505	.247	.256	-1.177	260	1239	.505	.247	.256	-1.177
260	1156	.093	.119	.300	-1.534	260	1240	.301	.201	.333	-1.485	260	1240	.301	.201	.333	-1.485
260	1157	.126	.123	.297	-1.708	260	1241	.291	.189	.173	-1.281	260	1241	.291	.189	.173	-1.281
260	1158	.200	.143	.219	-1.830	260	1242	.386	.246	.204	-1.389	260	1242	.386	.246	.204	-1.389
260	1159	.234	.140	.223	-1.820	260	1243	.497	.266	.179	-1.982	260	1243	.497	.266	.179	-1.982
260	1160	.232	.153	.170	-1.852	260	1244	.488	.257	.167	-1.813	260	1244	.488	.257	.167	-1.813
260	1161	.117	.120	.280	-1.536	260	1245	.148	.136	.308	-1.906	260	1245	.148	.136	.308	-1.906
260	1162	.113	.120	.307	-1.543	260	1246	.135	.152	.469	-1.796	260	1246	.135	.152	.469	-1.796
260	1163	.096	.116	.310	-1.474	260	1247	.222	.182	.398	-1.365	260	1247	.222	.182	.398	-1.365
260	1164	.102	.109	.300	-1.496	260	1248	.274	.214	.320	-1.587	260	1248	.274	.214	.320	-1.587
260	1165	.091	.110	.332	-1.505	260	1249	.327	.233	.241	-1.687	260	1249	.327	.233	.241	-1.687
260	1166	.074	.111	.320	-1.480	260	1250	.046	.126	.361	-1.457	260	1250	.046	.126	.361	-1.457
260	1201	.388	.219	.242	-1.712	260	1251	.036	.126	.375	-1.455	260	1251	.036	.126	.375	-1.455
260	1202	.424	.234	.224	-1.890	260	1252	.053	.122	.335	-1.432	260	1252	.053	.122	.335	-1.432
260	1203	.447	.214	.162	-1.457	260	1253	.076	.121	.298	-1.606	260	1253	.076	.121	.298	-1.606
260	1204	.547	.222	.132	-1.573	260	1254	.103	.145	.374	-1.812	260	1254	.103	.145	.374	-1.812
260	1205	.330	.198	.370	-1.483	260	1255	.024	.109	.415	-1.394	260	1255	.024	.109	.415	-1.394
260	1206	.466	.228	.317	-1.589	260	1256	.031	.108	.429	-1.401	260	1256	.031	.108	.429	-1.401
260	1207	.622	.276	.264	-1.597	260	1257	.048	.113	.349	-1.411	260	1257	.048	.113	.349	-1.411
260	1208	.548	.246	.266	-1.590	260	1258	.045	.120	.371	-1.635	260	1258	.045	.120	.371	-1.635
260	1209	.718	.313	.116	-1.600	260	1259	.051	.118	.355	-1.524	260	1259	.051	.118	.355	-1.524
260	1210	.296	.182	.199	-1.289	260	1301	.169	.207	.508	-1.914	260	1301	.169	.207	.508	-1.914
260	1211	.302	.189	.205	-1.288	260	1302	.017	.241	.777	-1.821	260	1302	.017	.241	.777	-1.821
260	1212	.456	.282	.286	-1.545	260	1303	.097	.263	.1.029	-1.987	260	1303	.097	.263	.1.029	-1.987
260	1213	.684	.328	.243	-2.092	260	1304	.204	.217	.1.198	-1.566	260	1304	.204	.217	.1.198	-1.566
260	1214	.687	.316	.196	-2.026	260	1305	.259	.245	.1.387	-1.517	260	1305	.259	.245	.1.387	-1.517
260	1215	.346	.223	.464	-1.759	260	1306	.164	.244	.1.267	-1.643	260	1306	.164	.244	.1.267	-1.643
260	1216	.402	.150	.007	-1.834	260	1307	.071	.263	.1.296	-1.750	260	1307	.071	.263	.1.296	-1.750
260	1217	.550	.296	.333	-2.019	260	1308	.053	.218	.1.212	-1.788	260	1308	.053	.218	.1.212	-1.788
260	1218	.588	.296	.127	-2.364	260	1309	.111	.186	.898	-1.447	260	1309	.111	.186	.898	-1.447
260	1219	.568	.289	.135	-2.200	260	1310	.127	.186	.898	-1.456	260	1310	.127	.186	.898	-1.456
260	1220	.462	.275	.175	-2.767	260	1311	.334	.225	.1.470	-1.325	260	1311	.334	.225	.1.470	-1.325
260	1221	.464	.244	.203	-1.805	260	1312	.353	.288	.1.658	-1.455	260	1312	.353	.288	.1.658	-1.455
260	1222	.506	.250	.286	-1.896	260	1313	.193	.306	.1.580	-1.541	260	1313	.193	.306	.1.580	-1.541

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN
260	1314	.183	.282	1.321	-.751	260	1405	.318	.220	1.225	-.508	260	1455	-.006	.111	.429	-.412
260	1315	.200	.229	1.122	-.530	260	1406	.326	.226	1.253	-.499	260	1456	-.015	.120	.387	-.444
260	1316	.217	.193	1.041	-.562	260	1407	.320	.227	1.200	-.466	260	1457	.005	.126	.450	-.392
260	1317	.390	.234	1.123	-.775	260	1408	.284	.221	1.080	-.453	260	1458	.001	.129	.429	-.413
260	1318	.354	.271	1.093	-.789	260	1409	.234	.202	1.132	-.338	260	1459	-.041	.129	.410	-.469
260	1319	.192	.283	1.088	-.703	260	1410	.511	.267	1.364	-.388	260	1501	-.075	.242	1.052	-1.230
260	1320	.158	.273	1.149	-.877	260	1411	.566	.266	1.383	-.364	260	1502	-.039	.202	.801	-.939
260	1321	.222	.209	1.004	-.601	260	1412	.610	.192	1.215	-.026	260	1503	-.037	.171	.730	-.813
260	1322	.339	.233	1.315	-.462	260	1413	.416	.219	1.231	-.266	260	1504	-.074	.207	.649	-.905
260	1323	.293	.280	1.214	-.818	260	1414	.288	.209	1.053	-.374	260	1505	-.168	.147	.409	-.949
260	1324	.109	.228	1.118	-.758	260	1415	.440	.259	1.511	-.438	260	1506	.006	.170	.729	-.518
260	1325	.098	.235	1.963	-.543	260	1416	.531	.259	1.459	-.257	260	1507	-.007	.170	.694	-.526
260	1326	.095	.174	1.689	-.452	260	1417	.549	.253	1.438	-.234	260	1508	-.034	.169	.789	-.583
260	1327	.166	.191	1.822	-.488	260	1418	.383	.202	1.096	-.212	260	1509	-.036	.258	1.202	-1.066
260	1328	.122	.221	1.102	-.601	260	1419	.223	.216	1.074	-.450	260	1510	.138	.214	1.116	-.802
260	1329	.037	.189	1.701	-.780	260	1420	.381	.254	1.264	-.269	260	1511	.193	.226	1.066	-.684
260	1330	.050	.174	1.601	-.727	260	1421	.449	.257	1.367	-.215	260	1512	.110	.191	1.056	-.653
260	1331	.033	.177	1.629	-.730	260	1422	.458	.236	1.288	-.242	260	1513	-.054	.184	.599	-.613
260	1332	.068	.177	1.009	-.691	260	1423	.352	.212	1.173	-.289	260	1514	.029	.194	.767	-.652
260	1333	.008	.180	1.866	-.738	260	1424	.246	.196	1.001	-.332	260	1515	.064	.263	1.065	-.783
260	1334	.090	.157	1.632	-.828	260	1425	.247	.199	1.261	-.357	260	1516	.200	.291	1.141	-.996
260	1335	.094	.157	1.436	-.834	260	1426	.367	.230	1.321	-.231	260	1517	.400	.283	1.664	-.713
260	1336	.019	.169	1.592	-.856	260	1427	.438	.247	1.388	-.282	260	1518	.253	.201	1.120	-.468
260	1337	.095	.175	1.818	-.561	260	1428	.360	.222	1.195	-.330	260	1519	-.030	.183	.523	-.642
260	1338	.022	.171	1.805	-.579	260	1429	.264	.208	1.156	-.384	260	1520	.046	.189	.665	-.761
260	1339	.039	.142	1.630	-.639	260	1430	.186	.194	1.006	-.366	260	1521	.161	.275	.970	-.750
260	1340	.018	.122	1.498	-.437	260	1431	.286	.212	1.173	-.316	260	1522	.256	.226	.903	-.691
260	1341	.014	.140	1.598	-.447	260	1432	.373	.218	1.219	-.187	260	1523	.283	.226	1.070	-.586
260	1342	.097	.157	1.002	-.411	260	1433	.297	.193	.995	-.219	260	1524	.239	.213	1.092	-.496
260	1344	.018	.147	1.583	-.737	260	1434	.223	.196	1.270	-.589	260	1525	.008	.186	.839	-.665
260	1345	.013	.130	1.453	-.601	260	1435	.145	.183	.894	-.430	260	1526	.027	.216	1.242	-.784
260	1346	.016	.121	1.428	-.422	260	1436	.308	.184	1.010	-.190	260	1527	.193	.266	1.258	-.792
260	1347	.039	.120	1.483	-.333	260	1437	.213	.205	.935	-.384	260	1528	.257	.198	1.107	-.503
260	1348	.024	.130	1.711	-.459	260	1438	.172	.176	.815	-.422	260	1529	.305	.207	1.221	-.424
260	1349	.074	.139	1.420	-.626	260	1439	.108	.165	.751	-.388	260	1530	.223	.192	.963	-.327
260	1350	.071	.121	1.330	-.512	260	1440	.054	.164	.781	-.481	260	1531	.016	.180	.882	-.550
260	1351	.049	.101	1.315	-.407	260	1441	.101	.200	.942	-.497	260	1532	.006	.192	1.061	-.675
260	1352	.052	.095	1.274	-.395	260	1442	.089	.187	.914	-.540	260	1533	.155	.200	.988	-.740
260	1353	.068	.096	1.267	-.398	260	1443	.017	.166	.651	-.492	260	1534	.172	.167	.898	-.261
260	1354	.084	.100	1.239	-.486	260	1444	.016	.152	.557	-.472	260	1535	.245	.186	.949	-.569
260	1355	.155	.124	1.365	-.551	260	1445	.003	.143	.661	-.481	260	1536	.157	.174	.830	-.401
260	1356	.053	.118	1.398	-.440	260	1446	.023	.148	.683	-.426	260	1537	.003	.187	.759	-.765
260	1357	.011	.116	1.359	-.441	260	1447	.020	.147	.694	-.436	260	1538	.012	.201	.941	-.752
260	1358	.017	.117	1.345	-.500	260	1448	.012	.137	.602	-.438	260	1539	.174	.207	.846	-.691
260	1359	.016	.117	1.408	-.385	260	1449	.017	.133	.607	-.353	260	1540	.151	.165	.920	-.511
260	1360	.020	.115	1.435	-.403	260	1450	.091	.124	.278	-.564	260	1541	.184	.179	1.080	-.437
260	1401	.211	.255	1.352	-.525	260	1451	.114	.126	.286	-.528	260	1542	.119	.173	.932	-.433
260	1402	.269	.266	1.379	-.432	260	1452	.070	.121	.350	-.501	260	1543	.054	.159	.501	-.573
260	1403	.214	.243	1.471	-.390	260	1453	.073	.134	.444	-.525	260	1544	.106	.178	.558	-.841
260	1404	.095	.219	1.459	-.474	260	1454	.086	.139	.455	-.588	260	1545	.063	.176	.677	-.649



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	1546	.092	.153	.781	-.340	260	1634	-.485	.227	.100	-1.647	260	1740	-.288	.177	.280	-.993
260	1547	.129	.168	.909	-.361	260	1635	-.484	.200	.136	-1.237	260	1741	-.160	.130	.331	-.651
260	1548	.006	.162	.757	-.554	260	1636	-.530	.208	.081	-1.356	260	1742	-.138	.130	.348	-.627
260	1549	.044	.141	.485	-.514	260	1637	-.499	.214	.105	-1.440	260	1743	-.136	.127	.266	-.535
260	1550	.050	.141	.724	-.686	260	1638	-.456	.226	.170	-1.351	260	1744	-.175	.125	.231	-.700
260	1551	.023	.156	.770	-.557	260	1639	-.463	.230	.141	-1.315	260	1801	-.265	.160	.226	-1.000
260	1552	.123	.170	.877	-.517	260	1640	-.724	.407	.160	-1.904	260	1802	-.259	.161	.237	-.968
260	1553	.194	.201	1.208	-.354	260	1641	-.583	.290	.167	-2.127	260	1803	-.371	.178	.189	-1.266
260	1554	.000	.207	.558	-.485	260	1642	-.188	.186	.558	-1.095	260	1804	-.298	.172	.209	-1.167
260	1555	.009	.123	.420	-.478	260	1643	-.064	.290	.660	-.409	260	1805	-.269	.150	.219	-.902
260	1556	.031	.130	.623	-.458	260	1644	-.027	.155	.733	-.454	260	1806	-.262	.147	.225	-1.014
260	1557	.022	.155	.970	-.356	260	1701	-.225	.222	.278	-.856	260	1807	-.355	.157	.172	-1.001
260	1558	.033	.145	.749	-.517	260	1702	-.232	.143	.164	-.818	260	1808	-.352	.150	.239	-.919
260	1559	.035	.145	.921	-.442	260	1703	-.237	.143	.165	-.851	260	1809	-.352	.150	.218	-.863
260	1560	.034	.143	.687	-.401	260	1704	-.239	.145	.258	-.831	260	1810	-.352	.144	.189	-.839
260	1561	.064	.139	.573	-.331	260	1705	-.227	.128	.226	-.672	260	1811	-.366	.152	.116	-.991
260	1562	.041	.129	.409	-.418	260	1706	-.232	.142	.276	-.781	260	1812	-.274	.139	.170	-.723
260	1601	.340	.176	.229	-1.057	260	1707	-.229	.153	.279	-.774	260	1813	-.275	.138	.167	-.824
260	1602	.171	.171	.206	-1.084	260	1708	-.226	.153	.239	-.916	260	1814	-.284	.143	.179	-.828
260	1603	.150	.150	.212	-.953	260	1709	-.332	.147	.273	-.959	260	1815	-.264	.146	.187	-1.099
260	1604	.157	.157	.311	-1.129	260	1710	-.245	.138	.337	-.941	260	1816	-.274	.142	.177	-.951
260	1605	.166	.166	.177	-1.209	260	1711	-.245	.132	.226	-.853	260	1817	-.264	.139	.172	-.847
260	1606	.194	.164	.171	-1.126	260	1712	-.245	.137	.173	-.837	260	1818	-.270	.144	.195	-.820
260	1607	.168	.167	.257	-1.210	260	1713	-.246	.129	.233	-.732	260	1819	-.275	.151	.240	-.865
260	1608	.152	.152	.171	-.975	260	1714	-.240	.140	.115	-.813	260	1820	-.288	.145	.095	-.904
260	1609	.158	.158	.170	-1.123	260	1715	-.244	.133	.209	-.695	260	1821	-.308	.134	.098	-.770
260	1610	.147	.147	.282	-1.058	260	1716	-.243	.134	.207	-.921	260	1822	-.309	.143	.135	-.769
260	1611	.136	.158	.214	-1.102	260	1717	-.239	.130	.245	-.762	260	1823	-.309	.150	.175	-1.092
260	1612	.266	.151	.264	-.983	260	1718	-.237	.130	.233	-.793	260	1824	-.335	.158	.141	-1.195
260	1613	.286	.163	.325	-1.097	260	1719	-.245	.135	.189	-.780	260	1825	-.355	.147	.138	-1.139
260	1614	.270	.168	.318	-1.273	260	1720	-.209	.134	.210	-.659	260	1826	-.273	.144	.135	-.841
260	1615	.247	.149	.309	-1.176	260	1721	-.260	.143	.232	-.747	260	1827	-.305	.158	.185	-.927
260	1616	.147	.147	.297	-1.212	260	1722	-.265	.140	.229	-.767	260	1828	-.355	.174	.176	-1.284
260	1617	.143	.143	.312	-.818	260	1723	-.283	.133	.146	-.730	260	1829	-.357	.177	.187	-1.210
260	1618	.145	.145	.321	-.844	260	1724	-.296	.136	.151	-.763	260	1830	-.355	.156	.218	-.945
260	1619	.149	.149	.188	-1.143	260	1725	-.298	.139	.110	-.961	260	1831	-.288	.141	.159	-.778
260	1620	.140	.140	.242	-.786	260	1726	-.293	.154	.162	-1.040	260	1832	-.308	.145	.177	-.853
260	1621	.233	.141	.233	-.802	260	1727	-.293	.148	.221	-.917	260	1833	-.308	.155	.150	-.949
260	1622	.265	.146	.207	-.871	260	1728	-.334	.151	.134	-.878	260	1834	-.308	.185	.108	-1.077
260	1623	.288	.166	.177	-1.341	260	1729	-.336	.154	.148	-.893	260	1835	-.308	.164	.251	-.826
260	1624	.289	.161	.256	-1.652	260	1730	-.310	.152	.391	-.901	260	1836	-.214	.134	.183	-.713
260	1625	.279	.169	.220	-1.232	260	1731	-.356	.180	.147	-1.035	260	1837	-.206	.099	.046	-.598
260	1626	.290	.172	.209	-1.430	260	1732	-.302	.169	.188	-1.195	260	1838	-.221	.141	.219	-.778
260	1627	.317	.171	.186	-1.143	260	1733	-.340	.171	.185	-1.259	260	1839	-.232	.155	.210	-.921
260	1628	.315	.192	.155	-1.551	260	1734	-.347	.183	.169	-1.369	260	1840	-.159	.132	.243	-.731
260	1629	.337	.187	.151	-2.007	260	1735	-.340	.178	.211	-1.171	260	1841	-.147	.127	.236	-.680
260	1630	.339	.182	.105	-.997	260	1736	-.445	.210	.160	-1.269	260	1842	-.148	.131	.246	-.691
260	1631	.339	.182	.149	-1.321	260	1737	-.335	.193	.159	-1.212	260	1843	-.197	.139	.254	-.870
260	1632	.464	.188	.086	-1.457	260	1738	-.335	.192	.203	-1.205	260	1844	-.164	.126	.206	-.592
260	1633	.434	.214	.113	-1.781	260	1739	-.332	.201	.212	-1.250	260	1845	-.135	.123	.233	-.562

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	1846	.131	.120	.230	-.556	260	2314	-.020	.159	.822	-.561	260	2507	-.217	.167	.425	-.035
260	1847	-.114	.122	.293	-.532	260	2315	-.040	.151	4.668	-.684	260	2508	-.182	.165	.444	-.958
260	1848	-.118	.123	.290	-.532	260	2316	-.164	.181	4.466	-.917	260	2509	-.128	.155	.447	-.717
260	1849	-.110	.122	.291	-.585	260	2317	-.182	.177	4.933	-.835	260	2510	-.135	.145	.415	-.696
260	1850	-.146	.139	.283	-.626	260	2318	-.113	.176	6.068	-.935	260	2511	-.173	.137	.187	-.711
260	1851	-.121	.119	.245	-.492	260	2319	.011	.155	4.332	-.432	260	2512	-.170	.142	.225	-.944
260	1852	-.116	.116	.240	-.540	260	2320	.051	.165	8.21	-.378	260	2513	-.170	.151	.307	-.998
260	1853	-.110	.116	.236	-.564	260	2321	.057	.150	6.668	-.380	260	2514	-.141	.156	.347	-.823
260	1854	-.114	.116	.238	-.561	260	2322	.050	.148	7.228	-.573	260	2515	-.134	.146	.305	-.714
260	1901	-.171	.287	1.129	-.937	260	2401	-.026	.192	8.222	-1.001	260	2516	-.182	.138	.235	-.788
260	1902	-.067	.200	.520	-.067	260	2402	-.002	.181	9.355	-.700	260	2517	-.185	.138	.247	-.720
260	1903	-.406	.178	.218	-.1	260	2403	-.049	.150	6.116	-.481	260	2518	-.183	.144	.196	-.746
260	1904	-.037	.197	.762	-.654	260	2404	-.105	.146	7.233	-.706	260	2519	-.189	.157	.237	-.904
260	1905	-.523	.256	.295	-.1	260	2405	-.221	.251	6.676	-1.740	260	2520	-.149	.154	.321	-.599
260	1906	-.437	.175	.172	-.1	260	2406	-.119	.173	5.903	-1.502	260	2521	-.130	.137	.340	-.615
260	1908	-.448	.178	.147	-.1	260	2407	-.096	.158	4.229	-1.333	260	2522	-.136	.137	.340	-.723
260	1909	-.465	.208	.100	-.1	260	2408	-.126	.158	4.118	-.892	260	2523	-.120	.129	.324	-.711
260	1910	-.428	.230	.304	-.1	260	2409	-.141	.162	4.21	-.813	260	2524	-.103	.126	.326	-.520
260	1911	-.020	.218	1.001	-.764	260	2410	-.157	.164	3.994	-1.032	260	2525	-.088	.126	.328	-.508
260	1912	-.301	.160	.167	-.927	260	2411	-.160	.175	4.677	-.890	260	2526	-.150	.125	.248	-.654
260	1913	-.107	.271	.977	-.875	260	2412	-.087	.145	3.997	-.586	260	2527	-.133	.142	.313	-.787
260	1914	-.420	.195	.164	-.1	260	2413	-.095	.119	2.888	-.565	260	2528	-.084	.134	.381	-.668
260	1915	-.349	.185	.223	-.1	260	2414	-.119	.121	1.235	-.574	260	2529	-.057	.133	.393	-.529
260	1916	-.297	.152	.168	-.1	260	2415	-.199	.177	4.355	-.909	260	2530	-.052	.133	.395	-.468
260	1917	-.361	.257	1.248	-.843	260	2416	-.179	.172	3.443	-1.007	260	2601	-.254	.184	.283	-.144
260	1918	-.320	.180	.236	-.1	260	2417	-.211	.166	2.94	-.878	260	2602	-.236	.168	.273	-.331
260	1919	-.443	.162	.106	-.1	260	2418	-.183	.150	3.314	-.799	260	2603	-.218	.155	.283	-.912
260	1920	-.243	.151	.310	-.1	260	2419	-.199	.166	3.15	-.919	260	2604	-.208	.145	.263	-.832
260	1921	-.397	.227	.236	-.1	260	2420	-.124	.160	3.664	-1.240	260	2605	-.273	.172	.151	-.1
260	1922	-.309	.191	.212	-.1	260	2421	-.098	.146	3.773	-.844	260	2606	-.257	.166	.135	-.1
260	1924	-.349	.217	.276	-.1	260	2422	-.067	.124	3.666	-.587	260	2607	-.211	.159	.197	-.1
260	1925	-.290	.157	.190	-.1	260	2423	-.083	.129	3.990	-.484	260	2608	-.198	.140	.153	-.1
260	1926	-.368	.164	.081	-.1	260	2424	-.099	.129	3.79	-.517	260	2609	-.207	.141	.187	-.1
260	1927	-.277	.151	.120	-.1	260	2425	-.082	.100	2.20	-.477	260	2610	-.208	.151	.246	-.1
260	1928	-.281	.159	.290	-.1	260	2426	-.055	.102	3.331	-.556	260	2611	-.187	.142	.257	-.1
260	1929	-.266	.144	.156	-.1	260	2427	-.061	.100	2.855	-.412	260	2612	-.157	.133	.291	-.1
260	1930	-.403	.181	.213	-.1	260	2428	-.028	.100	4.277	-.357	260	2613	-.163	.134	.286	-.1
260	2301	.174	.186	1.089	-.339	260	2429	-.024	.109	3.335	-.399	260	2615	-.177	.139	.234	-.1
260	2302	.172	.188	1.064	-.355	260	2430	-.006	.110	4.31	-.430	260	2616	-.176	.147	.259	-.1
260	2303	.221	.203	.973	-.373	260	2431	-.035	.113	4.355	-.385	260	2617	-.155	.144	.260	-.1
260	2304	.186	.202	1.080	-.396	260	2432	-.018	.110	4.09	-.403	260	2618	-.170	.136	.303	-.1
260	2305	.139	.189	.975	-.420	260	2433	-.016	.102	4.71	-.347	260	2619	-.185	.140	.296	-.1
260	2306	.157	.167	.834	-.412	260	2434	-.027	.103	4.55	-.341	260	2620	-.170	.130	.266	-.1
260	2307	.142	.184	1.081	-.389	260	2435	-.056	.105	3.84	-.425	260	2621	-.169	.132	.231	-.1
260	2308	.152	.198	1.061	-.416	260	2501	-.236	.185	4.63	-1.333	260	2622	-.145	.128	.238	-.1
260	2309	.133	.191	1.032	-.492	260	2502	-.182	.151	2.51	-1.167	260	2623	-.127	.127	.271	-.1
260	2310	.081	.184	.999	-.468	260	2503	-.200	.151	2.99	-1.005	260	2624	-.154	.134	.249	-.1
260	2311	.120	.161	.972	-.400	260	2504	-.192	.165	3.23	-1.043	260	2625	-.206	.152	.248	-.1
260	2312	.115	.167	.739	-.394	260	2505	-.179	.162	3.50	-1.000	260	2626	-.203	.149	.260	-.1
260	2313	.101	.170	.898	-.380	260	2506	-.186	.171	3.77	-.952	260	2627	-.151	.133	.285	-.1

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	2628	135	129	304	613	260	2810	161	134	295	-774	270	1102	357	170	188	-1.239
260	2629	135	131	322	564	260	2811	160	133	296	-749	270	1103	395	173	107	-1.190
260	2701	176	135	246	660	260	2812	143	132	287	-599	270	1104	426	182	197	-1.192
260	2702	177	135	222	815	260	2813	134	128	291	-592	270	1105	469	203	241	-1.364
260	2703	158	122	205	641	260	2814	132	128	300	-590	270	1106	368	203	301	-1.638
260	2704	153	144	241	793	260	2815	160	130	245	-673	270	1107	341	179	311	-1.224
260	2705	139	124	198	700	260	2816	159	130	247	-660	270	1108	430	184	266	-1.334
260	2706	198	131	207	890	260	2817	147	130	265	-568	270	1109	401	149	032	-0.977
260	2707	180	131	214	842	260	2818	137	124	257	-543	270	1110	394	158	159	-1.136
260	2708	190	146	204	747	260	2819	124	129	334	-516	270	1111	336	163	131	-0.928
260	2709	175	128	225	772	260	2820	157	130	290	-584	270	1112	347	168	135	-0.973
260	2710	179	124	252	666	260	2821	156	132	301	-584	270	1113	350	183	125	-1.371
260	2711	185	126	246	590	260	2822	148	134	280	-603	270	1114	430	177	020	-1.243
260	2712	173	125	242	608	260	2823	110	124	275	-709	270	1115	324	162	093	-1.003
260	2713	198	153	220	865	260	2824	131	131	272	-890	270	1116	342	122	041	-0.759
260	2714	231	132	163	305	260	2825	125	131	548	-499	270	1117	329	152	147	-0.861
260	2715	217	155	198	880	260	2826	061	192	1044	-420	270	1118	317	150	197	-0.905
260	2716	197	149	216	750	260	2827	016	148	717	-393	270	1119	256	160	219	-1.486
260	2717	172	134	272	692	260	2828	090	171	933	-367	270	1120	260	153	231	-1.209
260	2718	172	126	254	635	260	2904	115	187	1162	-372	270	1121	243	143	229	-0.998
260	2719	200	152	302	902	260	2905	032	167	791	-395	270	1122	268	144	196	-0.778
260	2720	207	153	311	944	260	2906	199	191	371	-344	270	1123	256	144	204	-0.968
260	2721	203	140	262	800	260	2907	193	186	335	-339	270	1124	261	147	231	-1.114
260	2722	178	133	282	677	260	2908	057	207	097	-879	270	1125	286	173	358	-1.016
260	2723	148	129	321	559	260	2909	083	159	501	-723	270	1126	266	160	211	-0.865
260	2724	146	128	310	566	260	2910	083	159	587	-527	270	1127	289	162	194	-0.980
260	2725	140	122	277	569	260	2911	111	190	458	-092	270	1128	289	164	166	-1.148
260	2726	180	126	244	616	260	2912	117	200	787	-274	270	1129	294	163	156	-0.969
260	2727	142	125	274	622	260	2913	102	160	342	-725	270	1130	286	168	185	-0.942
260	2728	134	132	344	560	260	2914	211	242	635	-560	270	1131	214	189	774	-0.999
260	2729	111	130	313	530	260	2915	107	163	671	-524	270	1132	241	173	274	-0.965
260	2730	112	131	396	541	260	2916	115	165	680	-040	270	1133	263	179	192	-1.070
260	2731	136	126	328	547	260	2917	133	199	617	-333	270	1134	303	181	230	-1.199
260	2732	144	126	321	554	260	2918	199	198	207	-232	270	1135	279	176	193	-1.263
260	2733	133	125	324	526	260	2919	162	128	273	-713	270	1136	317	209	306	-1.830
260	2734	108	125	334	511	260	2920	099	154	268	-930	270	1137	213	188	391	-0.995
260	2735	096	127	348	573	260	2921	165	166	280	-690	270	1138	205	185	391	-0.876
260	2736	101	128	350	578	260	2922	139	152	305	-778	270	1139	276	213	265	-1.179
260	2737	107	128	324	573	260	2923	177	154	311	-829	270	1140	304	213	274	-1.513
260	2738	092	126	323	507	260	2924	177	127	285	-756	270	1141	329	193	378	-1.180
260	2739	093	122	307	544	260	2925	158	185	293	-038	270	1142	326	206	264	-1.642
260	2801	136	116	198	530	260	2926	179	160	294	-013	270	1143	187	156	280	-0.994
260	2802	172	147	267	718	260	2927	230	167	309	-928	270	1144	204	156	318	-1.037
260	2803	172	128	220	707	260	2928	098	131	332	-535	270	1145	251	168	275	-1.040
260	2804	166	127	207	690	260	2929	100	097	199	-442	270	1146	325	192	270	-1.114
260	2805	166	123	338	562	260	2930	110	093	217	-505	270	1147	342	200	232	-1.555
260	2806	163	121	363	570	260	2931	108	096	236	-501	270	1148	312	183	197	-1.698
260	2807	161	118	340	534	260	2932	117	098	176	-514	270	1149	126	139	410	-0.628
260	2808	153	122	320	552	260	2933	117	094	203	-529	270	1150	122	138	358	-0.644
260	2809	156	120	324	562	270	1101	372	180	168	-373	270	1151	168	150	328	-0.720

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	1152	-259	.184	.277	-1.9669	270	1236	-.332	.222	.366	-1.457	270	1327	.216	.183	.925	-.366
270	1153	-.283	.178	.207	-1.2339	270	1237	-.347	.243	.366	-1.343	270	1328	.153	.180	.956	-.461
270	1154	-.277	.181	.225	-1.2668	270	1238	-.406	.247	.484	-2.071	270	1329	.020	.187	.901	-.803
270	1155	-.111	.130	.423	-.5255	270	1239	-.402	.247	.575	-1.911	270	1330	-.041	.167	.746	-.802
270	1156	-.106	.134	.429	-.5337	270	1240	-.250	.201	.307	-1.292	270	1331	-.076	.168	.548	-.740
270	1157	-.134	.137	.388	-.5598	270	1241	-.286	.215	.283	-1.640	270	1332	-.017	.180	1.020	-.924
270	1158	-.183	.145	.367	-.5888	270	1242	-.361	.255	.287	-1.567	270	1333	-.036	.193	.684	-1.232
270	1159	-.205	.148	.394	-.6080	270	1243	-.320	.216	.381	-1.671	270	1334	-.144	.198	.416	-1.010
270	1160	-.183	.149	.222	-.7558	270	1244	-.392	.255	.260	-1.758	270	1335	-.109	.168	.440	-.734
270	1161	-.126	.126	.282	-.5518	270	1245	-.139	.158	.370	-.763	270	1336	-.014	.155	.541	-.573
270	1162	-.126	.126	.303	-.5118	270	1246	-.109	.135	.322	-.735	270	1337	-.032	.156	.660	-.496
270	1163	-.098	.123	.344	-.5066	270	1247	-.196	.223	.697	-1.801	270	1338	-.037	.153	.524	-.595
270	1164	-.098	.124	.371	-.5336	270	1248	-.313	.259	.307	-2.255	270	1339	-.065	.136	.444	-.619
270	1165	-.086	.123	.363	-.5144	270	1249	-.271	.203	.245	-1.204	270	1340	-.022	.134	.405	-.586
270	1166	-.071	.124	.383	-.5502	270	1250	-.058	.125	.368	-.490	270	1341	-.088	.145	.595	-.463
270	1201	-.449	.225	.267	-.1.5445	270	1251	-.046	.126	.381	-.473	270	1342	-.154	.163	.782	-.395
270	1202	-.495	.246	.182	-1.8113	270	1252	-.056	.124	.328	-.460	270	1344	-.027	.160	.528	-.657
270	1203	-.527	.219	.187	-1.4106	270	1253	-.087	.154	.428	-.964	270	1345	-.006	.136	.488	-.509
270	1204	-.388	.237	.242	-1.5010	270	1254	-.093	.148	.385	-.930	270	1346	-.005	.125	.488	-.413
270	1205	-.304	.183	.222	-1.0888	270	1255	-.022	.135	.443	-.483	270	1347	-.059	.131	.658	-.338
270	1206	-.425	.234	.246	-1.3332	270	1256	-.029	.134	.435	-.488	270	1348	-.025	.137	.560	-.459
270	1207	-.582	.323	.438	-2.0559	270	1257	-.045	.115	.333	-.416	270	1349	-.091	.140	.514	-.626
270	1208	-.678	.305	.218	-2.1088	270	1258	-.047	.115	.331	-.450	270	1350	-.080	.120	.342	-.569
270	1209	-.865	.356	.632	-2.4335	270	1259	-.053	.119	.335	-.489	270	1351	-.048	.101	.295	-.399
270	1210	-.261	.159	.320	-1.1311	270	1301	-.067	.194	.629	-.964	270	1352	-.046	.100	.291	-.415
270	1211	-.239	.175	.277	-1.1233	270	1302	-.127	.236	.926	-.606	270	1353	-.060	.101	.285	-.428
270	1212	-.347	.342	.488	-1.7333	270	1303	-.235	.253	1.168	-.631	270	1354	-.076	.104	.267	-.448
270	1213	-.803	.364	.534	-2.2557	270	1304	-.213	.213	1.279	-.590	270	1355	-.146	.126	.510	-.539
270	1214	-.810	.338	.538	-2.0667	270	1305	-.281	.212	1.280	-.502	270	1356	-.050	.120	.339	-.441
270	1215	-.234	.182	.274	-1.2441	270	1306	-.284	.240	1.291	-.579	270	1357	-.018	.111	.351	-.377
270	1216	-.322	.206	.120	-1.0116	270	1307	-.256	.278	1.265	-.706	270	1358	-.030	.111	.351	-.427
270	1217	-.404	.352	.478	-2.0255	270	1308	-.205	.264	1.170	-.561	270	1359	-.027	.118	.433	-.406
270	1218	-.622	.303	.604	-1.9938	270	1309	-.203	.198	.882	-.420	270	1360	-.030	.118	.410	-.407
270	1219	-.603	.289	.454	-1.9933	270	1310	-.206	.196	.935	-.440	270	1401	-.277	.282	1.345	-.597
270	1220	-.294	.243	.347	-1.8933	270	1311	-.345	.221	1.505	-.422	270	1402	-.314	.279	1.445	-.504
270	1221	-.271	.249	.415	-1.6227	270	1312	-.473	.251	1.558	-.215	270	1403	-.228	.254	1.154	-.510
270	1222	-.404	.331	.489	-2.0887	270	1313	-.383	.275	1.383	-.495	270	1404	-.077	.223	1.092	-.566
270	1223	-.460	.285	.481	-1.9931	270	1314	-.346	.289	1.311	-.402	270	1405	-.322	.229	1.172	-.530
270	1224	-.559	.281	.668	-1.7332	270	1315	-.300	.235	1.223	-.280	270	1406	-.301	.225	1.096	-.467
270	1225	-.311	.232	.450	-2.0522	270	1316	-.264	.185	.973	-.376	270	1407	-.266	.221	1.010	-.317
270	1226	-.312	.262	.516	-1.7659	270	1317	-.459	.205	1.337	-.422	270	1408	-.206	.211	.916	-.410
270	1227	-.386	.318	.526	-2.149	270	1318	-.481	.219	1.381	-.517	270	1409	-.111	.195	.769	-.584
270	1228	-.528	.305	.537	-2.1115	270	1319	-.437	.264	1.377	-.473	270	1410	-.495	.264	1.468	-.458
270	1229	-.516	.292	.572	-2.3347	270	1320	-.343	.266	1.433	-.701	270	1411	-.511	.260	1.411	-.395
270	1230	-.355	.220	.360	-1.8664	270	1321	-.239	.180	1.073	-.371	270	1412	-.597	.177	1.187	-.019
270	1231	-.396	.248	.240	-1.8770	270	1322	-.348	.199	1.080	-.249	270	1413	-.293	.219	1.018	-.476
270	1232	-.475	.302	.461	-1.8486	270	1323	-.371	.217	1.142	-.449	270	1414	-.130	.205	.769	-.564
270	1233	-.552	.321	.084	-2.4899	270	1324	-.249	.238	1.188	-.693	270	1415	-.519	.242	1.523	-.739
270	1234	-.487	.291	.134	-2.4899	270	1325	-.184	.231	1.100	-.542	270	1416	-.553	.238	1.453	-.552
270	1235	-.301	.204	.248	-1.6338	270	1326	-.098	.167	.652	-.501	270	1417	-.503	.222	1.239	-.105



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	1418	.301	.209	.970	-.351	270	1509	-.185	.230	.660	-.927	270	1559	.009	.137	.596	-.495
270	1419	.051	.183	.943	-.542	270	1510	-.018	.223	.941	-.676	270	1560	.005	.134	.560	-.409
270	1420	.384	.254	1.411	-.982	270	1511	-.071	.244	1.164	-.748	270	1561	-.046	.140	.718	-.406
270	1421	.426	.257	1.359	-.153	270	1512	-.045	1.208	1.133	-.772	270	1562	-.058	.136	.410	-.550
270	1422	.464	.243	1.427	-.202	270	1513	-.173	1.182	1.738	-.822	270	1601	-.309	.182	.256	-.087
270	1423	.308	.212	1.243	-.344	270	1514	-.177	1.181	.640	-.900	270	1602	-.364	.180	.232	-.151
270	1424	.157	.197	.985	-.549	270	1515	-.133	1.234	.974	-.948	270	1603	-.248	.158	.291	-.963
270	1425	.178	.205	1.042	-.693	270	1516	-.042	1.308	1.172	-.1019	270	1604	-.271	.162	.322	-.933
270	1426	.285	.243	1.134	-.431	270	1517	-.211	1.236	1.336	-.713	270	1605	-.333	.153	.251	-.124
270	1427	.348	.261	1.199	-.364	270	1518	-.171	1.236	1.043	-.904	270	1606	-.319	.149	.242	-.101
270	1428	.262	.232	1.040	-.359	270	1519	-.169	1.183	.381	-.863	270	1607	-.322	.142	.133	-.966
270	1429	.164	.194	.874	-.432	270	1520	-.176	1.186	.422	-.1144	270	1608	-.299	.138	.197	-.764
270	1430	.118	.194	.940	-.387	270	1521	-.119	1.256	.957	-.1109	270	1609	-.305	.142	.188	-.865
270	1431	.212	.226	1.291	-.391	270	1522	-.074	1.259	.982	-.1065	270	1610	-.281	.160	.227	-.987
270	1432	.300	.252	1.349	-.369	270	1523	-.171	1.242	1.183	-.745	270	1611	-.376	.170	.135	-.150
270	1433	.237	.224	1.047	-.442	270	1524	-.164	1.197	1.098	-.806	270	1612	-.275	.155	.199	-.873
270	1434	.108	.186	.884	-.678	270	1525	-.122	1.197	.626	-.867	270	1613	-.252	.151	.235	-.845
270	1435	.137	.184	.874	-.413	270	1526	-.143	1.203	.524	-.909	270	1614	-.249	.153	.227	-.986
270	1436	.286	.194	1.132	-.305	270	1527	-.112	1.274	.949	-.889	270	1615	-.237	.148	.254	-.102
270	1437	.224	.228	.971	-.391	270	1528	-.149	1.222	.811	-.802	270	1616	-.228	.146	.247	-.894
270	1438	.175	.191	.860	-.381	270	1529	-.226	1.217	.886	-.554	270	1617	-.218	.141	.273	-.815
270	1439	.102	.178	.809	-.429	270	1530	-.182	1.198	.980	-.623	270	1618	-.227	.140	.257	-.894
270	1440	.121	.198	1.135	-.439	270	1531	-.085	1.183	.549	-.1169	270	1619	-.236	.145	.215	-.786
270	1441	.137	.201	.905	-.388	270	1532	-.108	1.200	.668	-.1379	270	1620	-.243	.147	.233	-.824
270	1442	.140	.204	.991	-.427	270	1533	-.082	1.225	.831	-.1204	270	1621	-.245	.149	.236	-.899
270	1443	.054	.186	.856	-.485	270	1534	-.144	1.172	.698	-.552	270	1622	-.248	.148	.248	-.104
270	1444	.039	.164	.725	-.507	270	1535	-.227	1.216	1.068	-.1163	270	1623	-.271	.150	.166	-.942
270	1445	.006	.145	.788	-.466	270	1536	-.154	1.199	.748	-.929	270	1624	-.286	.166	.186	-.132
270	1446	.043	.166	.873	-.764	270	1537	-.088	1.161	.822	-.982	270	1625	-.273	.162	.226	-.112
270	1447	.047	.158	.839	-.528	270	1538	-.102	1.178	.667	-.637	270	1626	-.274	.162	.232	-.114
270	1448	.010	.143	.644	-.447	270	1539	-.095	1.182	.754	-.578	270	1627	-.252	.154	.201	-.833
270	1449	.037	.139	.618	-.403	270	1540	-.102	1.164	.667	-.638	270	1628	-.277	.160	.195	-.104
270	1450	.107	.125	.301	-.570	270	1541	-.154	1.179	.790	-.578	270	1629	-.286	.176	.212	-.133
270	1451	.135	.128	.278	-.591	270	1542	-.099	1.171	.737	-.559	270	1630	-.316	.163	.244	-.128
270	1452	.090	.125	.309	-.519	270	1543	-.091	1.159	.452	-.882	270	1631	-.330	.166	.198	-.120
270	1453	.090	.126	.361	-.548	270	1544	-.139	1.177	.607	-.1091	270	1632	-.324	.185	.209	-.114
270	1454	.102	.133	.348	-.682	270	1545	-.028	1.171	.624	-.840	270	1633	-.350	.201	.181	-.144
270	1455	.017	.107	.426	-.391	270	1546	-.063	1.140	.539	-.433	270	1634	-.397	.217	.150	-.192
270	1456	.026	.118	.424	-.417	270	1547	-.110	1.155	.615	-.475	270	1635	-.413	.207	.183	-.143
270	1457	.002	.132	.471	-.536	270	1548	-.001	1.154	.571	-.504	270	1636	-.459	.215	.162	-.157
270	1458	.014	.131	.458	-.482	270	1549	-.039	1.145	.495	-.519	270	1637	-.433	.219	.177	-.162
270	1459	.061	.136	.448	-.552	270	1550	-.050	1.132	.333	-.584	270	1638	-.379	.201	.226	-.113
270	1501	.299	.255	.584	-.571	270	1551	-.051	1.140	.529	-.622	270	1639	-.393	.210	.224	-.117
270	1502	.208	.227	.605	-.104	270	1552	-.053	1.144	.670	-.555	270	1640	-.609	.275	.155	-.275
270	1503	.164	.193	.565	-.992	270	1553	-.136	1.177	.961	-.448	270	1641	-.478	.250	.194	-.198
270	1504	.140	.174	.487	-.734	270	1554	-.027	1.136	.477	-.496	270	1642	-.244	.193	.445	-.988
270	1505	.190	.151	.445	-.810	270	1555	-.007	1.133	.475	-.527	270	1643	-.010	.156	.377	-.485
270	1506	.165	.190	.368	-.069	270	1556	-.054	1.135	.462	-.611	270	1644	-.012	.152	.718	-.429
270	1507	.175	.191	.350	-.104	270	1557	-.126	1.168	.989	-.433	270	1701	-.272	.147	.151	-.949
270	1508	.196	.192	.528	-.134	270	1558	-.052	1.136	.427	-.531	270	1702	-.262	.141	.223	-.802

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	1703	270	142	196	-780	270	1809	225	164	225	-1.046	270	1905	637	281	133	-1.930
270	1704	240	148	203	-809	270	1810	274	158	134	-958	270	1906	490	172	041	-1.139
270	1705	240	147	155	-809	270	1811	363	146	244	-1.025	270	1907	512	174	076	-1.152
270	1706	238	147	208	-809	270	1812	371	143	245	-777	270	1908	518	157	165	-1.066
270	1707	233	146	221	-798	270	1813	299	139	178	-856	270	1910	469	211	232	-1.516
270	1708	327	158	169	-946	270	1814	310	143	182	-881	270	1911	157	193	579	-866
270	1709	341	144	071	-630	270	1815	207	136	190	-721	270	1912	332	159	148	-848
270	1710	257	137	184	-964	270	1816	195	130	191	-712	270	1913	171	265	756	-1.051
270	1711	244	139	231	-852	270	1817	202	127	181	-594	270	1914	494	220	296	-1.615
270	1712	333	148	138	-961	270	1818	206	132	196	-664	270	1915	405	190	177	-1.585
270	1713	244	138	185	-822	270	1819	226	139	204	-1.074	270	1916	284	147	185	-1.055
270	1714	298	140	197	-913	270	1820	221	152	185	-1.025	270	1917	125	331	096	-1.375
270	1715	249	135	209	-845	270	1821	229	144	154	-730	270	1918	332	177	404	-1.018
270	1716	222	135	196	-689	270	1822	226	152	217	-769	270	1919	437	165	006	-1.228
270	1717	215	133	206	-683	270	1823	255	146	169	-821	270	1920	266	154	202	-928
270	1718	215	132	201	-810	270	1824	260	152	179	-897	270	1921	382	215	300	-1.503
270	1719	229	123	194	-551	270	1825	237	141	225	-1.409	270	1922	284	183	397	-1.279
270	1720	179	119	209	-891	270	1826	219	136	227	-853	270	1923	283	191	521	-1.318
270	1721	260	145	182	-900	270	1827	210	148	230	-815	270	1924	283	191	521	-1.025
270	1722	253	140	172	-811	270	1828	224	157	236	-1.023	270	1925	272	157	304	-1.133
270	1723	253	139	239	-737	270	1829	223	164	238	-1.070	270	1926	372	169	208	-1.136
270	1724	251	140	228	-693	270	1830	186	147	245	-865	270	1927	322	152	136	-1.188
270	1725	192	134	196	-712	270	1831	194	138	204	-726	270	1928	306	168	209	-805
270	1726	226	140	226	-874	270	1832	199	151	174	-1.313	270	1929	300	131	178	-1.180
270	1727	264	150	242	-940	270	1833	250	171	160	-1.690	270	1930	498	189	072	-1.289
270	1728	300	151	179	-903	270	1834	334	184	217	-1.090	270	2301	187	168	014	-288
270	1729	312	154	175	-832	270	1835	226	136	216	-795	270	2302	178	171	128	-469
270	1730	215	148	413	-844	270	1836	196	140	258	-904	270	2303	222	210	090	-399
270	1731	280	162	191	-726	270	1837	190	105	139	-618	270	2304	223	217	076	-397
270	1732	276	140	157	-749	270	1838	207	152	257	-1.076	270	2305	189	202	922	-324
270	1733	289	140	145	-828	270	1839	224	152	278	-1.056	270	2306	201	181	073	-425
270	1734	355	149	108	-830	270	1840	152	136	272	-621	270	2307	176	170	981	-439
270	1735	219	155	224	-1.138	270	1841	141	131	267	-587	270	2308	214	193	122	-440
270	1736	355	193	284	-988	270	1842	139	131	279	-651	270	2309	206	192	019	-425
270	1737	274	170	315	-010	270	1843	147	134	293	-651	270	2310	179	193	973	-398
270	1738	285	159	131	-224	270	1844	160	126	272	-697	270	2311	102	170	976	-423
270	1739	276	172	183	-998	270	1845	140	124	308	-529	270	2312	100	178	033	-395
270	1740	257	163	248	-543	270	1846	136	123	306	-522	270	2313	185	187	850	-602
270	1741	156	120	283	-513	270	1847	120	122	280	-607	270	2314	100	182	975	-635
270	1742	127	117	296	-571	270	1848	124	124	284	-723	270	2315	035	142	542	-891
270	1743	129	124	271	-847	270	1849	118	123	288	-657	270	2316	109	158	594	-955
270	1744	137	119	245	-917	270	1850	136	122	263	-595	270	2317	136	194	681	-641
270	1801	264	155	273	-567	270	1851	128	132	266	-661	270	2318	049	182	723	-460
270	1802	256	154	287	-817	270	1852	122	130	270	-661	270	2319	015	147	499	-469
270	1803	376	173	229	-016	270	1853	117	130	273	-652	270	2320	022	149	560	-409
270	1804	306	168	282	-856	270	1854	121	130	254	-662	270	2321	031	146	579	-368
270	1805	281	156	263	-871	270	1901	363	286	541	-533	270	2322	013	143	531	-800
270	1806	270	154	272	-042	270	1902	135	285	556	-801	270	2401	019	188	763	-521
270	1807	362	166	191	-992	270	1903	195	286	551	-342	270	2402	027	159	729	-440
270	1808	282	157	188	-992	270	1904	164	223	624	-1.025	270	2403	012	139	634	-628
													2404	066	136	475	

APPENDIX A -- PRESSURE DATA

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	2405	.132	.242	.757	-1.583	270	2620	.141	.145	.378	-.632	270	2712	-.081	.129	.314	-.470
270	2406	-.025	.176	.551	-1.122	270	2621	-.138	.128	.288	-.758	270	2713	-.154	.137	.330	-.803
270	2407	.007	.152	.475	-.890	270	2622	-.148	.129	.269	-.694	270	2714	-.147	.107	.339	-.822
270	2408	.044	.152	.411	-.797	270	2623	-.121	.129	.277	-.666	270	2715	-.148	.124	.308	-.865
270	2409	.087	.144	.374	-.877	270	2624	-.100	.126	.295	-.612	270	2716	-.145	.124	.331	-.849
270	2410	.110	.185	.457	-.867	270	2625	-.082	.122	.327	-.497	270	2717	-.126	.126	.316	-.855
270	2411	.127	.153	.490	-.743	270	2626	-.139	.124	.283	-.821	270	2718	-.133	.118	.341	-.833
270	2412	.068	.124	.346	-.604	270	2627	-.116	.134	.348	-.607	270	2719	-.140	.137	.253	-.874
270	2413	.081	.129	.319	-.498	270	2628	-.082	.128	.352	-.469	270	2720	-.143	.138	.273	-.867
270	2414	.106	.128	.281	-.571	270	2629	-.069	.128	.333	-.470	270	2721	-.121	.112	.213	-.813
270	2415	.159	.175	.462	-.935	270	2630	-.065	.127	.363	-.492	270	2722	-.117	.110	.227	-.838
270	2416	.143	.185	.396	-.842	270	2631	-.160	.170	.338	-.933	270	2723	-.111	.108	.216	-.858
270	2417	.227	.165	.376	-.841	270	2632	-.155	.170	.366	-.745	270	2724	-.113	.108	.417	-.472
270	2418	.183	.147	.465	-.730	270	2633	-.156	.156	.332	-.911	270	2725	-.099	.118	.213	-.839
270	2419	.177	.140	.227	-.774	270	2634	-.140	.145	.317	-.730	270	2726	-.133	.122	.404	-.844
270	2420	.107	.125	.272	-.773	270	2635	-.193	.171	.251	-.207	270	2727	-.101	.119	.391	-.868
270	2421	.090	.123	.291	-.472	270	2636	-.166	.140	.333	-.097	270	2728	-.108	.121	.321	-.830
270	2422	.082	.120	.294	-.464	270	2637	-.145	.156	.366	-.216	270	2729	-.094	.117	.308	-.800
270	2423	.092	.122	.345	-.591	270	2638	-.129	.140	.285	-.953	270	2730	-.093	.118	.308	-.898
270	2424	.108	.122	.303	-.624	270	2639	-.114	.147	.327	-.808	270	2731	-.109	.129	.270	-.877
270	2425	.085	.100	.237	-.531	270	2640	-.155	.133	.333	-.653	270	2732	-.116	.130	.274	-.833
270	2426	.069	.100	.243	-.457	270	2641	-.140	.125	.216	-.737	270	2733	-.117	.128	.261	-.833
270	2427	.069	.099	.252	-.485	270	2642	-.129	.123	.255	-.732	270	2734	-.092	.125	.300	-.490
270	2428	.051	.104	.248	-.497	270	2643	-.121	.123	.246	-.679	270	2735	-.091	.118	.328	-.440
270	2429	.047	.100	.281	-.443	270	2644	-.131	.131	.292	-.624	270	2736	-.095	.119	.387	-.477
270	2430	.029	.099	.293	-.418	270	2645	-.142	.133	.299	-.556	270	2737	-.092	.119	.319	-.477
270	2431	.060	.102	.268	-.448	270	2646	-.134	.133	.292	-.562	270	2738	-.086	.118	.289	-.551
270	2432	.039	.098	.285	-.416	270	2647	-.141	.136	.274	-.669	270	2739	-.084	.123	.312	-.621
270	2433	.036	.095	.287	-.473	270	2648	-.145	.138	.250	-.686	270	2800	-.084	.114	.327	-.537
270	2434	.041	.096	.291	-.481	270	2649	-.135	.138	.302	-.703	270	2801	-.136	.124	.258	-.821
270	2435	.065	.100	.286	-.531	270	2650	-.134	.129	.281	-.681	270	2802	-.093	.121	.255	-.828
270	2501	.175	.166	.327	-1.019	270	2651	-.117	.132	.302	-.653	270	2803	-.083	.120	.254	-.814
270	2502	.166	.162	.325	-.820	270	2652	-.106	.130	.312	-.627	270	2804	-.081	.126	.294	-.844
270	2503	.151	.157	.335	-.809	270	2653	-.132	.125	.280	-.584	270	2805	-.092	.132	.356	-.666
270	2504	.157	.151	.332	-.109	270	2654	-.178	.149	.285	-.939	270	2806	-.092	.130	.332	-.666
270	2505	.146	.149	.331	-1.070	270	2655	-.172	.146	.287	-.983	270	2807	-.082	.132	.336	-.422
270	2506	.156	.156	.321	-.286	270	2656	-.133	.128	.278	-.555	270	2808	-.082	.130	.327	-.455
270	2507	.160	.147	.340	-.734	270	2657	-.115	.125	.291	-.518	270	2809	-.110	.124	.314	-.499
270	2508	.139	.147	.595	-.670	270	2658	-.103	.122	.333	-.528	270	2810	-.112	.123	.313	-.433
270	2509	.099	.145	.608	-.687	270	2659	-.103	.135	.340	-.555	270	2811	-.101	.126	.270	-.898
270	2510	.093	.139	.527	-.696	270	2701	-.101	.134	.350	-.600	270	2812	-.102	.125	.281	-.821
270	2511	.157	.132	.220	-.661	270	2702	-.087	.121	.334	-.622	270	2813	-.099	.126	.281	-.877
270	2512	.159	.133	.211	-.700	270	2703	-.110	.121	.343	-.678	270	2814	-.116	.118	.267	-.870
270	2513	.166	.120	.186	-.747	270	2704	-.073	.119	.337	-.725	270	2815	-.114	.117	.255	-.870
270	2514	.159	.139	.252	-.639	270	2705	-.095	.117	.336	-.543	270	2816	-.108	.118	.269	-.817
270	2515	.137	.138	.335	-.621	270	2706	-.079	.133	.391	-.552	270	2817	-.110	.117	.279	-.898
270	2516	.154	.119	.220	-.669	270	2707	-.134	.129	.353	-.594	270	2818	-.104	.126	.362	-.868
270	2517	.155	.119	.227	-.720	270	2708	-.078	.130	.395	-.503	270	2819	-.092	.126	.299	-.833
270	2518	.152	.121	.230	-.640	270	2709	-.085	.128	.303	-.466	270	2820	-.088	.127	.289	-.899
270	2519	.158	.132	.275	-.719	270	2710	-.091	.130	.304	-.489	270	2821	-.083	.125	.301	-.898
270						270	2711	-.141	.145	.378	-.632	270	2822	-.083	.125	.301	-.898



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	2823	-.096	.128	.275	-.507	280	1115	-.357	.158	.177	-1.018	280	1165	-.078	.122	.434	-.463
270	2824	-.099	.128	.276	-.509	280	1116	-.367	.115	-.029	-.757	280	1166	-.065	.121	.425	-.460
270	2901	-.034	.141	.552	-.500	280	1117	-.346	.152	.199	-1.000	280	1201	-.408	.221	.248	-1.715
270	2902	-.010	.164	.722	-.477	280	1118	-.349	.152	.247	-.866	280	1202	-.414	.247	.240	-1.739
270	2903	-.017	.141	.553	-.518	280	1119	-.338	.169	.330	-1.138	280	1203	-.475	.250	.427	-1.337
270	2904	-.047	.157	.722	-.474	280	1120	-.329	.160	.292	-1.097	280	1204	-.527	.250	.313	-1.577
270	2905	-.049	.159	.830	-.490	280	1121	-.332	.137	.196	-.828	280	1205	-.215	.159	.337	-1.271
270	2906	-.010	.147	.547	-.502	280	1122	-.264	.140	.224	-.760	280	1206	-.241	.203	.276	-1.564
270	2907	-.207	.206	.297	-.376	280	1123	-.238	.136	.305	-.773	280	1207	-.318	.324	.551	-1.932
270	2908	-.168	.180	.229	-.341	280	1124	-.296	.145	.314	-.877	280	1208	-.406	.342	.609	-1.759
270	2909	-.053	.204	.746	-.715	280	1125	-.306	.214	.335	-1.288	280	1209	-.543	.352	.649	-2.402
270	2910	-.027	.151	.577	-.854	280	1126	-.238	.185	.351	-.991	280	1210	-.217	.132	.229	-1.658
270	2911	-.211	.191	.592	-.259	280	1127	-.290	.167	.273	-1.136	280	1211	-.153	.130	.318	-1.709
270	2912	-.191	.175	.417	-.056	280	1128	-.280	.158	.327	-.889	280	1212	-.058	.208	.507	-1.609
270	2913	-.137	.195	.752	-.076	280	1129	-.341	.161	.216	-1.025	280	1213	-.535	.500	.354	-2.569
270	2914	-.131	.141	.346	-.655	280	1130	-.275	.158	.247	-1.017	280	1214	-.580	.442	.389	-2.515
270	2915	-.134	.199	.508	-.673	280	1131	-.173	.199	.718	-1.375	280	1215	-.149	.141	.378	-1.844
270	2916	-.032	.184	.730	-.634	280	1132	-.178	.196	.474	-.960	280	1216	-.179	.125	.149	-.810
270	2917	-.174	.156	.426	-.829	280	1133	-.226	.195	.502	-.932	280	1217	-.051	.328	.913	-1.708
270	2918	-.065	.171	.678	-.742	280	1134	-.382	.203	.333	-1.306	280	1218	-.487	.428	.775	-2.211
270	2919	-.160	.177	.478	-.329	280	1135	-.391	.182	.160	-1.156	280	1219	-.423	.382	.052	-1.925
270	2920	-.095	.134	.303	-.570	280	1136	-.336	.173	.160	-1.196	280	1220	-.208	.165	.254	-1.186
270	2921	-.105	.152	.352	-.923	280	1137	-.095	.188	.173	-1.196	280	1221	-.134	.194	.418	-1.366
270	2922	-.085	.131	.327	-.561	280	1138	-.086	.188	.484	-1.082	280	1222	-.252	.378	.676	-1.723
270	2923	-.111	.150	.496	-.893	280	1139	-.221	.197	.599	-.923	280	1223	-.389	.361	.764	-1.786
270	2924	-.109	.146	.463	-.630	280	1140	-.229	.194	.451	-1.173	280	1224	-.351	.340	.895	-1.395
270	2925	-.094	.133	.327	-.601	280	1141	-.312	.207	.408	-1.031	280	1225	-.235	.181	.308	-1.335
270	2926	-.168	.126	.328	-.584	280	1142	-.283	.204	.327	-1.339	280	1226	-.249	.219	.500	-1.514
270	2927	-.174	.126	.334	-.577	280	1143	-.136	.149	.333	-1.716	280	1227	-.208	.332	.786	-1.860
270	2928	-.162	.125	.342	-.577	280	1144	-.134	.151	.427	-.687	280	1228	-.342	.375	.722	-2.159
270	2930	-.094	.117	.272	-.492	280	1145	-.159	.151	.433	-.635	280	1229	-.340	.355	.746	-2.021
270	2931	-.094	.092	.258	-.553	280	1146	-.159	.169	.356	-.758	280	1230	-.303	.196	.283	-1.555
270	2932	-.111	.100	.269	-.447	280	1147	-.270	.173	.301	-.947	280	1231	-.245	.213	.382	-1.777
270	2933	-.077	.099	.286	-.405	280	1148	-.250	.169	.195	-.120	280	1232	-.264	.265	.629	-1.223
270	2934	-.122	.103	.252	-.510	280	1149	-.116	.126	.282	-.921	280	1233	-.345	.343	.640	-1.948
270	2935	-.118	.099	.250	-.444	280	1150	-.103	.126	.333	-.700	280	1234	-.358	.307	.995	-1.920
280	1101	-.318	.182	.231	-.128	280	1151	-.133	.129	.336	-.669	280	1235	-.251	.175	.394	-.984
280	1102	-.313	.175	.253	-.985	280	1152	-.176	.133	.502	-.660	280	1236	-.193	.162	.503	-.965
280	1103	-.418	.182	.116	-.147	280	1153	-.201	.132	.393	-.852	280	1237	-.183	.199	.529	-1.155
280	1104	-.474	.208	.204	-.132	280	1154	-.191	.136	.374	-.750	280	1238	-.245	.238	.549	-1.689
280	1105	-.558	.239	.081	-.672	280	1155	-.094	.120	.380	-.537	280	1239	-.247	.238	.533	-1.543
280	1106	-.358	.213	.384	-.231	280	1156	-.099	.129	.356	-.531	280	1240	-.166	.152	.284	-1.463
280	1107	-.334	.187	.390	-.201	280	1157	-.117	.129	.340	-.501	280	1241	-.168	.155	.319	-1.113
280	1108	-.424	.184	.175	-.262	280	1158	-.126	.135	.337	-.830	280	1242	-.185	.178	.320	-1.341
280	1109	-.417	.161	.028	-.134	280	1159	-.147	.141	.337	-.745	280	1243	-.234	.191	.331	-1.120
280	1110	-.387	.167	.134	-.170	280	1160	-.149	.127	.217	-.827	280	1244	-.213	.177	.275	-.954
280	1111	-.349	.160	.179	-.015	280	1161	-.098	.124	.274	-.500	280	1245	-.117	.128	.298	-.744
280	1112	-.356	.160	.173	-.034	280	1162	-.098	.124	.274	-.500	280	1246	-.118	.143	.347	-.930
280	1113	-.386	.188	.224	-.212	280	1163	-.066	.124	.281	-.510	280	1247	-.142	.163	.303	-.116
280	1114	-.448	.172	.143	-.192	280	1164	-.097	.121	.401	-.493	280	1248	-.192	.178	.342	-1.158

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	
280	1249	-.207	.206	354	-1.586	280	1340	-.031	.134	413	-.565	280	1431	.091	.237	1.191	-1.142	
280	1250	-.038	.121	387	-.463	280	1341	-.050	.141	596	-.468	280	1432	.164	.269	1.353	-1.237	
280	1251	-.025	.122	373	-.488	280	1342	-.068	.153	629	-.401	280	1433	.126	.247	1.051	-.770	
280	1252	-.037	.124	346	-.488	280	1344	-.047	.135	437	-.664	280	1434	.004	.203	.829	-.741	
280	1253	-.057	.138	381	-.683	280	1345	-.033	.120	423	-.493	280	1435	.037	.175	.770	-.800	
280	1254	-.061	.141	392	-.745	280	1346	-.015	.113	507	-.407	280	1436	.109	.164	.922	-.504	
280	1255	-.011	.126	417	-.439	280	1347	-.017	.115	575	-.415	280	1437	.114	.216	1.042	-.693	
280	1256	-.019	.126	383	-.443	280	1349	-.120	.128	299	-.649	280	1439	.055	.179	.979	-.557	
280	1257	-.017	.133	656	-.467	280	1350	-.103	.115	306	-.525	280	1440	.086	.194	.918	-.499	
280	1258	-.020	.127	460	-.653	280	1351	-.047	.101	333	-.462	280	1441	.125	.198	.957	-.637	
280	1259	-.029	.132	611	-.489	280	1352	-.041	.106	326	-.449	280	1442	.153	.198	1.015	-.500	
280	1301	-.047	.185	797	-.583	280	1353	-.055	.107	276	-.471	280	1443	.070	.176	.807	-.503	
280	1302	-.261	.223	985	-.428	280	1354	-.076	.110	305	-.571	280	1444	.051	.160	.658	-.609	
280	1303	-.341	.223	238	-.439	280	1355	-.155	.124	380	-.657	280	1445	.002	.147	.629	-.504	
280	1304	-.285	.226	281	-.439	280	1356	-.052	.123	484	-.477	280	1446	.048	.167	.862	-.610	
280	1305	-.326	.223	417	-.500	280	1357	-.019	.122	447	-.375	280	1447	.083	.165	.925	-.519	
280	1306	-.368	.226	126	-.500	280	1358	-.023	.120	399	-.380	280	1448	.028	.154	.624	-.484	
280	1307	-.405	.242	215	-.535	280	1359	-.031	.123	397	-.463	280	1449	.049	.149	.575	-.454	
280	1308	-.373	.256	232	-.535	280	1360	-.037	.123	397	-.457	280	1450	-.089	.132	.367	-.654	
280	1309	-.316	.233	228	-.535	280	1401	-.138	.273	168	-.012	280	1451	.141	.133	.390	-.658	
280	1310	-.318	.235	291	-.542	280	1402	-.165	.256	152	-.789	280	1452	-.092	.129	.339	-.500	
280	1311	-.434	.239	468	-.376	280	1403	-.125	.215	195	-.575	280	1453	-.094	.138	.350	-.746	
280	1312	-.555	.263	921	-.233	280	1404	-.019	.190	96	-.648	280	1454	-.094	.146	.333	-.840	
280	1313	-.519	.274	574	-.291	280	1405	-.296	.244	155	-.502	280	1455	-.016	.097	.333	-.341	
280	1314	-.555	.299	678	-.239	280	1406	-.255	.219	155	-.385	280	1456	-.029	.126	.366	-.502	
280	1315	-.483	.275	481	-.308	280	1407	-.192	.206	148	-.406	280	1457	-.002	.122	.512	-.402	
280	1316	-.387	.223	466	-.664	280	1408	-.107	.191	81	-.487	280	1458	-.003	.123	.473	-.426	
280	1317	-.525	.229	698	-.450	280	1409	-.008	.181	632	-.547	280	1459	-.081	.125	.390	-.493	
280	1318	-.529	.243	796	-.626	280	1410	-.475	.275	324	-.654	280	1501	-.438	.233	.224	-.1452	
280	1319	-.567	.249	686	-.299	280	1411	-.467	.255	257	-.613	280	1502	-.373	.235	.241	-.1194	
280	1320	-.536	.256	339	-.301	280	1412	-.452	.168	97	-.129	280	1503	-.269	.208	.409	-.1266	
280	1321	-.290	.183	152	-.318	280	1413	-.138	.210	94	-.479	280	1504	-.253	.181	.337	-.1135	
280	1322	-.339	.202	192	-.295	280	1414	-.056	.197	725	-.649	280	1505	-.264	.169	.294	-.1135	
280	1323	-.391	.198	115	-.216	280	1414	-.518	.291	339	-.611	280	1506	-.300	.185	.279	-.1001	
280	1324	-.370	.237	334	-.533	280	1415	-.526	.273	363	-.364	280	1507	-.311	.186	.281	-.1022	
280	1325	-.272	.223	784	-.484	280	1416	-.419	.230	230	-.257	280	1508	-.346	.189	.232	-.1049	
280	1326	-.057	.155	839	-.466	280	1417	-.133	.188	788	-.503	280	1509	-.390	.215	.480	-.1283	
280	1327	-.180	.154	910	-.417	280	1418	-.085	.185	536	-.786	280	1510	-.167	.212	.659	-.1970	
280	1328	-.172	.175	876	-.539	280	1419	-.313	.260	260	-.1051	280	1511	-.094	.266	1.055	-.1043	
280	1329	-.140	.191	771	-.535	280	1420	-.335	.250	210	-.102	280	1512	-.066	.255	.946	-.1103	
280	1330	-.014	.177	546	-.906	280	1422	-.306	.241	161	-.582	280	1513	-.346	.183	.581	-.998	
280	1331	-.068	.166	705	-.611	280	1423	-.136	.212	898	-.627	280	1514	-.366	.192	.571	-.1131	
280	1332	-.015	.165	705	-.611	280	1424	-.017	.202	838	-.682	280	1515	-.374	.219	.613	-.1190	
280	1333	-.006	.170	675	-.628	280	1425	-.097	.221	965	-.1014	280	1516	-.321	.295	.896	-.1464	
280	1334	-.065	.198	75	-.127	280	1426	-.159	.227	966	-.990	280	1517	-.067	.324	1.365	-.1463	
280	1335	-.082	.173	510	-.608	280	1427	-.193	.221	820	-.512	280	1518	-.012	.313	1.165	-.1091	
280	1336	-.040	.137	555	-.628	280	1428	-.109	.211	955	-.604	280	1519	-.303	.157	.284	-.1035	
280	1337	-.001	.139	559	-.703	280	1429	-.013	.200	729	-.683	280	1520	-.311	.158	.273	-.1119	
280	1338	-.051	.156	800	-.146	280	1430	-.031	.203	815	-.1155	280	1521	-.295	.218	.526	-.953	
280	1339	-.067	.150	552	-.847													

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPMIN
2800	15222	188	271	662	-1.045	2800	16110	298	183	213	-1.194	2800	1716	233	131	165	820
2800	15223	064	277	835	-1.038	2800	16111	367	187	153	-1.178	2800	1717	226	129	158	691
2800	15224	030	271	947	-1.129	2800	16112	261	170	226	-1.027	2800	1718	223	127	158	678
2800	15225	272	207	375	-1.119	2800	16113	235	161	241	-0.833	2800	1719	213	136	249	792
2800	15226	304	206	503	-1.175	2800	16114	234	163	230	-0.843	2800	1720	152	128	365	571
2800	15227	224	279	593	-1.413	2800	16115	256	167	270	-1.048	2800	1721	239	133	245	829
2800	15228	038	259	94	-1.161	2800	16116	243	160	239	-1.035	2800	1722	230	128	263	805
2800	15229	074	243	960	-1.951	2800	16117	255	148	238	-0.932	2800	1723	227	141	231	716
2800	15300	064	214	134	-1.188	2800	16118	230	145	241	-0.974	2800	1724	229	142	229	734
2800	1531	239	231	413	-1.846	2800	16119	256	149	147	-1.077	2800	1725	157	134	243	621
2800	1532	288	271	421	-1.726	2800	16120	252	150	270	-1.054	2800	1726	234	146	194	755
2800	1533	053	296	934	-1.498	2800	16121	248	148	246	-1.003	2800	1727	236	140	228	666
2800	15334	054	219	692	-1.043	2800	16122	244	141	223	-0.852	2800	1728	254	138	228	666
2800	15335	135	201	886	-1.649	2800	16123	279	144	162	-0.866	2800	1729	263	146	228	666
2800	15336	088	188	986	-1.634	2800	16124	265	153	287	-0.902	2800	1730	163	179	573	738
2800	15337	147	181	425	-1.556	2800	16125	248	158	259	-0.938	2800	1731	239	152	279	906
2800	15338	163	210	868	-1.451	2800	16126	247	158	290	-0.945	2800	1732	251	152	260	866
2800	15339	039	192	696	-1.499	2800	16127	282	176	187	-1.096	2800	1733	255	154	284	607
2800	15340	039	149	793	-1.499	2800	16128	298	173	176	-0.976	2800	1734	313	165	255	338
2800	15341	086	160	779	-1.415	2800	16129	309	189	160	-1.449	2800	1735	186	141	227	681
2800	15342	049	158	743	-1.408	2800	16130	257	177	240	-1.281	2800	1736	253	155	159	947
2800	15343	087	149	617	-1.406	2800	16131	247	173	288	-0.988	2800	1737	194	135	217	705
2800	15344	116	159	621	-1.684	2800	16132	273	184	247	-1.259	2800	1738	198	140	196	742
2800	15345	013	159	621	-1.567	2800	16133	282	190	234	-1.343	2800	1739	185	143	213	683
2800	15346	013	141	611	-1.431	2800	16134	325	207	205	-1.615	2800	1740	193	144	244	752
2800	15347	051	151	566	-1.431	2800	16135	259	188	361	-1.172	2800	1741	146	138	366	572
2800	15348	024	149	556	-1.504	2800	16136	306	192	334	-1.185	2800	1742	107	136	339	534
2800	15349	048	145	449	-1.623	2800	16137	279	194	300	-1.300	2800	1743	113	123	288	529
2800	15350	043	136	405	-1.587	2800	16138	277	179	176	-1.027	2800	1744	128	120	290	613
2800	15351	062	146	431	-1.503	2800	16139	282	194	189	-1.547	2800	1801	268	157	394	798
2800	15352	005	142	430	-1.503	2800	16400	377	279	275	-1.888	2800	1802	263	158	466	803
2800	15353	061	166	848	-1.503	2800	1641	293	216	182	-1.926	2800	1803	347	172	288	958
2800	15354	025	145	798	-1.571	2800	1642	233	157	317	-1.949	2800	1804	300	167	330	887
2800	15355	015	143	793	-1.497	2800	1643	065	140	487	-1.513	2800	1805	249	156	324	829
2800	15356	060	151	428	-1.660	2800	1644	053	150	686	-1.456	2800	1806	236	153	290	816
2800	15357	141	185	494	-1.532	2800	1701	250	148	187	-0.873	2800	1807	299	160	333	025
2800	15358	067	146	429	-1.530	2800	1702	243	147	205	-0.829	2800	1808	246	166	458	990
2800	15359	014	147	363	-1.460	2800	1703	253	147	216	-0.836	2800	1809	281	157	250	960
2800	15360	009	135	636	-1.433	2800	1704	218	137	258	-1.759	2800	1810	270	157	163	166
2800	15361	073	147	782	-1.364	2800	1705	234	140	199	-1.791	2800	1811	324	158	121	174
2800	15362	060	126	425	-1.492	2800	1706	216	133	257	-1.746	2800	1812	263	151	157	857
2800	1601	305	227	227	-1.111	2800	1707	210	132	266	-1.746	2800	1813	283	153	187	851
2800	1602	362	220	339	-1.906	2800	1708	288	139	197	-0.868	2800	1814	300	158	240	987
2800	1603	253	164	339	-1.011	2800	1709	293	148	328	-0.895	2800	1815	182	142	261	687
2800	1604	262	172	381	-1.011	2800	1710	232	142	278	-0.844	2800	1816	160	134	309	682
2800	1605	330	164	228	-1.371	2800	1711	238	139	157	-1.757	2800	1817	218	137	272	730
2800	1606	319	163	228	-1.388	2800	1712	308	142	114	-0.841	2800	1818	182	137	278	689
2800	1607	311	155	136	-1.034	2800	1713	334	135	162	-1.746	2800	1819	198	134	292	760
2800	1608	274	152	22	-1.052	2800	1714	273	141	167	-1.779	2800	1820	208	164	243	928
2800	1609	285	153	26	-0.991	2800	1715	243	143	206	-1.719	2800	1821	272	159	168	955

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	1822	-	158	.292	-1.807	280	1919	-	403	.176	-1.090	280	2418	-	156	.132	-1.319
280	1823	-	171	.308	-1.066	280	1920	-	255	.170	-1.904	280	2419	-	176	.126	-1.253
280	1824	-	219	.312	-1.050	280	1921	-	300	.205	-1.288	280	2420	-	103	.123	-1.341
280	1825	-	266	.242	-1.050	280	1922	-	258	.174	-1.150	280	2421	-	085	.120	-1.351
280	1826	-	199	.280	-1.895	280	1923	-	232	.172	-1.878	280	2422	-	078	.115	-1.368
280	1827	-	216	.349	-1.799	280	1924	-	259	.157	-1.007	280	2423	-	094	.128	-1.300
280	1828	-	220	.400	-1.898	280	1925	-	319	.182	-1.202	280	2424	-	106	.128	-1.286
280	1829	-	307	.344	-1.129	280	1926	-	300	.153	-1.969	280	2425	-	081	.095	-1.336
280	1830	-	148	.283	-1.000	280	1927	-	274	.179	-1.079	280	2426	-	070	.096	-1.339
280	1831	-	182	.327	-1.915	280	1928	-	300	.142	-1.830	280	2427	-	075	.097	-1.428
280	1832	-	179	.321	-1.019	280	1929	-	472	.189	-1.061	280	2428	-	068	.098	-1.403
280	1833	-	286	.278	-1.402	280	1930	-	133	.171	-1.329	280	2429	-	051	.097	-1.368
280	1834	-	238	.152	-1.166	280	2301	-	122	.170	-1.395	280	2430	-	035	.096	-1.366
280	1835	-	263	.255	-1.101	280	2302	-	131	.190	-1.387	280	2431	-	061	.098	-1.367
280	1836	-	199	.331	-1.799	280	2303	-	143	.196	-1.446	280	2432	-	042	.095	-1.329
280	1837	-	207	.067	-1.956	280	2304	-	121	.183	-1.470	280	2433	-	035	.096	-1.322
280	1838	-	238	.207	-1.262	280	2305	-	173	.192	-1.415	280	2434	-	034	.097	-1.288
280	1839	-	247	.338	-1.266	280	2306	-	167	.209	-1.371	280	2435	-	060	.101	-1.429
280	1840	-	142	.323	-1.575	280	2307	-	214	.111	-1.338	280	2501	-	179	.160	-1.882
280	1841	-	126	.310	-1.582	280	2308	-	198	.211	-1.369	280	2502	-	156	.136	-1.698
280	1842	-	136	.319	-1.790	280	2309	-	186	.208	-1.382	280	2503	-	123	.152	-1.689
280	1843	-	152	.246	-1.734	280	2310	-	099	.177	-1.458	280	2504	-	145	.133	-1.794
280	1844	-	154	.346	-1.544	280	2311	-	097	.191	-1.529	280	2505	-	142	.131	-1.766
280	1845	-	109	.358	-1.541	280	2312	-	148	.186	-1.570	280	2506	-	147	.135	-1.803
280	1846	-	114	.347	-1.532	280	2313	-	085	.159	-1.494	280	2507	-	140	.148	-1.107
280	1847	-	112	.291	-1.563	280	2314	-	068	.161	-1.568	280	2508	-	127	.144	-1.129
280	1848	-	116	.317	-1.540	280	2315	-	060	.156	-1.625	280	2509	-	100	.137	-1.334
280	1849	-	105	.314	-1.518	280	2316	-	093	.168	-1.794	280	2510	-	088	.135	-1.750
280	1850	-	120	.203	-1.574	280	2317	-	010	.155	-1.687	280	2511	-	140	.133	-1.666
280	1851	-	111	.334	-1.448	280	2318	-	004	.150	-1.578	280	2512	-	142	.132	-1.768
280	1852	-	110	.344	-1.528	280	2319	-	051	.152	-1.392	280	2513	-	155	.114	-1.497
280	1853	-	101	.361	-1.544	280	2320	-	053	.146	-1.366	280	2514	-	162	.140	-1.635
280	1854	-	110	.374	-1.544	280	2321	-	041	.141	-1.424	280	2515	-	138	.142	-1.590
280	1901	-	533	.397	-1.288	280	2401	-	022	.175	-1.901	280	2516	-	154	.132	-1.551
280	1902	-	217	.539	-1.975	280	2402	-	003	.163	-1.603	280	2517	-	155	.132	-1.554
280	1903	-	550	.208	-1.402	280	2403	-	024	.148	-1.644	280	2518	-	147	.133	-1.477
280	1904	-	317	.225	-1.098	280	2404	-	076	.144	-1.647	280	2519	-	150	.140	-1.555
280	1905	-	568	.249	-1.880	280	2405	-	081	.219	-1.107	280	2520	-	122	.131	-1.612
280	1906	-	477	.172	-1.114	280	2406	-	015	.167	-1.817	280	2521	-	128	.133	-1.559
280	1908	-	497	.019	-1.136	280	2407	-	007	.143	-1.548	280	2522	-	138	.133	-1.777
280	1909	-	513	.069	-1.382	280	2408	-	036	.137	-1.606	280	2523	-	116	.130	-1.555
280	1910	-	450	.162	-1.533	280	2409	-	083	.134	-1.874	280	2524	-	098	.127	-1.510
280	1911	-	301	.134	-1.883	280	2410	-	094	.174	-1.590	280	2525	-	081	.125	-1.507
280	1912	-	362	.146	-1.833	280	2411	-	092	.152	-1.879	280	2526	-	133	.129	-1.711
280	1913	-	317	.159	-1.606	280	2412	-	124	.124	-1.503	280	2527	-	092	.128	-1.528
280	1914	-	567	.161	-1.632	280	2413	-	069	.129	-1.500	280	2528	-	066	.126	-1.446
280	1915	-	446	.231	-1.696	280	2414	-	093	.128	-1.542	280	2529	-	059	.126	-1.433
280	1916	-	327	.151	-1.013	280	2415	-	124	.168	-1.916	280	2530	-	055	.125	-1.432
280	1917	-	138	.379	-1.756	280	2416	-	093	.172	-1.757	280	2601	-	107	.131	-1.627
280	1918	-	329	.300	-1.194	280	2417	-	204	.149	-1.751	280	2602	-	102	.130	-1.563



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	2603	.107	.136	.384	-.585	280	2725	-.069	.118	.311	-.452	280	2912	-.150	.149	.230	-.831
280	2604	-.102	.135	.388	-.586	280	2726	-.133	.120	.247	-.518	280	2913	-.190	.189	.350	-1.271
280	2605	-.111	.148	.390	-.861	280	2727	-.089	.118	.286	-.457	280	2914	-.124	.125	.282	-.647
280	2606	-.109	.146	.398	-.767	280	2728	-.093	.120	.321	-.629	280	2915	-.152	.178	.412	-1.055
280	2607	-.093	.144	.368	-.672	280	2729	-.096	.121	.324	-.649	280	2916	-.079	.174	.506	-.729
280	2608	-.082	.136	.307	-.599	280	2730	-.093	.122	.341	-.643	280	2917	-.149	.130	.586	-.777
280	2609	-.097	.129	.350	-.659	280	2731	-.081	.117	.322	-.546	280	2918	-.084	.143	.511	-.640
280	2610	-.128	.139	.303	-.583	280	2732	-.086	.117	.320	-.555	280	2919	-.108	.155	.401	-.642
280	2611	-.114	.112	.253	-.512	280	2733	-.091	.117	.319	-.568	280	2920	-.118	.129	.279	-.656
280	2612	-.111	.110	.244	-.571	280	2734	-.082	.117	.305	-.557	280	2921	-.116	.147	.364	-1.134
280	2613	-.104	.109	.254	-.493	280	2735	-.083	.122	.346	-.535	280	2922	-.101	.127	.308	-.732
280	2615	-.123	.121	.254	-.637	280	2736	-.088	.122	.352	-.548	280	2923	-.094	.135	.336	-.665
280	2616	-.103	.125	.285	-.555	280	2737	-.084	.122	.345	-.554	280	2924	-.091	.132	.332	-.663
280	2617	-.099	.123	.274	-.507	280	2738	-.081	.122	.337	-.572	280	2925	-.104	.127	.307	-.815
280	2618	-.105	.126	.364	-.574	280	2739	-.080	.114	.269	-.451	280	2926	-.119	.115	.204	-.455
280	2619	-.106	.126	.367	-.596	280	2801	-.088	.132	.277	-.676	280	2927	-.121	.114	.206	-.443
280	2620	-.114	.126	.274	-.515	280	2802	-.141	.118	.207	-.591	280	2928	-.117	.113	.218	-.533
280	2621	-.110	.115	.283	-.478	280	2803	-.092	.124	.345	-.533	280	2930	-.088	.116	.275	-.504
280	2622	-.102	.112	.275	-.446	280	2804	-.085	.124	.342	-.526	280	2931	-.075	.096	.220	-.394
280	2623	-.096	.112	.278	-.438	280	2805	-.082	.115	.283	-.542	280	2932	-.085	.098	.241	-.455
280	2624	-.107	.119	.270	-.586	280	2806	-.081	.123	.312	-.530	280	2933	-.061	.096	.301	-.423
280	2625	-.136	.133	.307	-.594	280	2807	-.083	.120	.283	-.512	280	2934	-.100	.099	.236	-.478
280	2626	-.131	.131	.301	-.580	280	2808	-.076	.121	.314	-.510	280	2935	-.087	.097	.240	-.446
280	2627	-.110	.124	.288	-.564	280	2809	-.072	.119	.300	-.501	290	1101	-.344	.173	.157	-.966
280	2628	-.096	.123	.311	-.539	280	2810	-.099	.127	.291	-.514	290	1102	-.353	.175	.214	-1.113
280	2629	-.090	.120	.341	-.606	280	2811	-.101	.126	.287	-.503	290	1103	-.452	.206	.122	-1.402
280	2701	-.078	.129	.365	-.517	280	2812	-.104	.111	.269	-.460	290	1104	-.640	.251	.096	-1.688
280	2702	-.071	.127	.345	-.481	280	2813	-.107	.110	.257	-.474	290	1105	-.733	.277	.022	-1.829
280	2703	-.082	.135	.347	-.674	280	2814	-.104	.110	.273	-.474	290	1106	-.334	.208	.492	-1.122
280	2704	-.111	.116	.304	-.638	280	2815	-.087	.121	.453	-.490	290	1107	-.335	.192	.596	-.938
280	2705	-.078	.132	.295	-.637	280	2816	-.086	.120	.452	-.485	290	1108	-.463	.184	.133	-1.110
280	2706	-.084	.119	.323	-.555	280	2817	-.087	.121	.461	-.480	290	1109	-.492	.198	.063	-1.272
280	2707	-.075	.119	.318	-.554	280	2818	-.091	.121	.431	-.489	290	1110	-.465	.191	.064	-1.296
280	2708	-.126	.116	.331	-.527	280	2819	-.103	.118	.275	-.588	290	1111	-.427	.166	.120	-1.334
280	2709	-.069	.117	.276	-.557	280	2820	-.079	.113	.273	-.442	290	1112	-.424	.165	.114	-1.321
280	2710	-.079	.115	.282	-.493	280	2821	-.080	.113	.268	-.443	290	1113	-.390	.235	.462	-1.465
280	2711	-.082	.116	.291	-.493	280	2822	-.074	.114	.271	-.448	290	1114	-.474	.191	.444	-1.144
280	2712	-.079	.116	.300	-.484	280	2823	-.086	.122	.299	-.525	290	1115	-.427	.175	.232	-1.028
280	2713	-.146	.122	.326	-.738	280	2824	-.088	.121	.311	-.525	290	1116	-.429	.127	.050	-1.065
280	2714	-.116	.106	.263	-.428	280	2901	-.045	.133	.415	-.566	290	1117	-.401	.156	.125	-1.123
280	2715	-.115	.121	.335	-.542	280	2902	-.027	.140	.639	-.524	290	1118	-.428	.168	.095	-1.064
280	2716	-.111	.122	.324	-.539	280	2903	-.022	.127	.532	-.400	290	1119	-.209	.232	.576	-1.292
280	2717	-.106	.128	.289	-.522	280	2904	-.044	.148	.783	-.360	290	1120	-.323	.225	.473	-1.339
280	2718	-.116	.118	.257	-.500	280	2905	-.038	.151	.684	-.394	290	1121	-.254	.194	.304	-1.084
280	2719	-.095	.124	.372	-.564	280	2906	-.023	.142	.677	-.464	290	1122	-.272	.147	.171	-1.071
280	2720	-.098	.125	.375	-.547	280	2907	-.154	.185	6.77	-.312	290	1123	-.271	.138	.157	-.679
280	2721	-.102	.131	.297	-.579	280	2908	-.131	.168	9.63	-.329	290	1124	-.350	.152	.072	-.840
280	2722	-.101	.131	.301	-.566	280	2909	-.098	.189	6.59	-.371	290	1125	-.307	.250	.694	-1.654
280	2723	-.099	.130	.303	-.571	280	2910	-.050	.164	5.39	-.658	290	1126	-.199	.200	.823	-1.034
280	2724	-.105	.130	.303	-.580	280	2911	-.224	.180	6.40	-.974	290	1127	-.267	.185	.347	-1.155

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	1128	263	163	249	-1.184	290	1212	060	204	967	-1.094	290	1303	197	222	1.178	-708
290	1129	380	164	129	-1.209	290	1213	069	453	998	-1.778	290	1304	294	231	1.298	-475
290	1130	256	151	203	-1.019	290	1214	162	433	1.092	-1.628	290	1305	326	230	1.091	-357
290	1131	085	80	800	-1.200	290	1215	102	132	389	-1.566	290	1306	322	232	1.255	-380
290	1132	139	236	661	-1.037	290	1216	078	103	260	-1.382	290	1307	356	241	1.222	-363
290	1133	211	239	499	-1.313	290	1217	178	213	903	-1.252	290	1308	332	241	1.190	-365
290	1134	441	245	355	-1.438	290	1218	094	392	1.144	-1.313	290	1309	301	216	1.247	-483
290	1135	315	198	283	-1.051	290	1219	039	338	1.178	-1.333	290	1310	303	220	1.282	-575
290	1136	318	185	207	-1.431	290	1220	126	145	417	-1.866	290	1311	487	269	1.310	-319
290	1137	008	187	699	-1.551	290	1221	001	158	545	-1.985	290	1312	535	269	1.492	-305
290	1138	025	190	737	-1.126	290	1222	018	298	890	-2.111	290	1313	533	268	1.546	-293
290	1139	186	253	612	-1.557	290	1223	027	387	1.291	-1.777	290	1314	487	277	1.522	-319
290	1140	213	229	729	-1.269	290	1224	050	370	1.103	-1.510	290	1315	521	286	1.717	-384
290	1141	301	212	333	-1.633	290	1225	140	159	328	-1.922	290	1316	492	238	1.384	-241
290	1142	252	196	396	-1.320	290	1226	142	181	439	-1.920	290	1317	578	247	1.442	-147
290	1143	079	145	449	-1.697	290	1227	088	233	808	-1.132	290	1318	550	274	1.501	-339
290	1144	072	145	406	-1.806	290	1228	025	367	1.029	-1.267	290	1319	600	254	1.459	-172
290	1145	110	148	311	-1.919	290	1229	017	363	1.135	-1.266	290	1320	546	250	1.254	-278
290	1146	212	184	448	-1.163	290	1230	282	177	457	-1.096	290	1321	406	228	1.438	-217
290	1147	302	174	168	-1.523	290	1231	141	165	375	-1.858	290	1322	401	247	1.479	-296
290	1148	233	168	242	-1.056	290	1232	033	211	627	-1.492	290	1323	400	226	1.431	-191
290	1149	093	129	633	-1.560	290	1233	064	283	1.171	-1.337	290	1324	459	236	1.316	-287
290	1150	076	128	734	-1.571	290	1234	038	269	974	-1.442	290	1325	345	243	1.202	-805
290	1151	118	128	339	-1.738	290	1235	179	141	367	-1.768	290	1326	169	228	1.090	-549
290	1152	168	143	279	-1.744	290	1236	119	138	341	-1.710	290	1327	286	203	1.080	-318
290	1153	203	151	243	-1.947	290	1237	078	172	741	-1.066	290	1328	249	175	911	-333
290	1154	181	149	264	-1.448	290	1238	088	214	922	-1.206	290	1329	260	173	913	-394
290	1155	069	122	302	-1.460	290	1239	088	225	858	-1.232	290	1330	666	165	770	-520
290	1156	078	122	264	-1.493	290	1240	143	130	263	-1.667	290	1331	622	206	1.130	-773
290	1157	095	122	264	-1.471	290	1241	105	126	287	-1.639	290	1332	655	183	1.122	-619
290	1158	102	124	309	-1.486	290	1242	091	138	358	-1.661	290	1333	661	169	957	-553
290	1159	135	127	245	-1.794	290	1243	105	151	531	-1.660	290	1334	640	181	962	-906
290	1160	133	128	415	-1.935	290	1244	114	160	493	-1.094	290	1335	615	171	616	-747
290	1161	092	119	400	-1.500	290	1245	097	125	316	-1.538	290	1336	639	134	841	-439
290	1162	084	117	462	-1.488	290	1246	084	123	403	-1.470	290	1337	671	132	787	-387
290	1163	066	117	462	-1.451	290	1247	064	125	345	-1.502	290	1338	645	131	696	-468
290	1164	082	111	331	-1.498	290	1248	090	132	313	-1.855	290	1339	663	130	686	-507
290	1165	062	111	333	-1.489	290	1249	100	144	429	-1.167	290	1340	639	119	601	-587
290	1166	049	110	326	-1.466	290	1250	027	117	381	-1.445	290	1341	609	119	517	-410
290	1201	344	225	364	-1.134	290	1251	016	117	398	-1.438	290	1342	017	121	539	-362
290	1202	283	256	565	-1.171	290	1252	031	116	341	-1.460	290	1344	028	113	436	-433
290	1203	337	279	582	-1.208	290	1253	054	132	378	-1.838	290	1345	022	108	414	-331
290	1204	392	312	611	-1.691	290	1254	049	126	437	-1.515	290	1346	022	108	476	-451
290	1205	228	293	293	-1.756	290	1255	009	124	438	-1.412	290	1347	010	105	442	-332
290	1206	196	274	410	-1.021	290	1256	020	125	427	-1.446	290	1348	000	119	519	-652
290	1207	135	266	857	-1.750	290	1257	017	127	402	-1.498	290	1349	022	125	504	-702
290	1208	195	226	748	-1.428	290	1258	027	141	493	-1.538	290	1350	032	119	479	-549
290	1209	300	337	844	-1.533	290	1259	025	130	465	-1.582	290	1351	026	108	399	-346
290	1210	214	147	257	-1.533	290	1301	096	187	803	-1.510	290	1352	014	095	263	-367
290	1211	103	150	412	-1.638	290	1302	207	214	1.097	-1.762	290	1353	020	094	271	-345



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	1354	-.040	.097	.247	-.383	290	1444	-.006	.158	.826	-.858	290	1535	-.003	.268	.926	-1.140
290	1355	-.122	.112	.379	-.553	290	1445	-.020	.146	.567	-.582	290	1536	-.013	.247	.900	-1.403
290	1356	-.032	.129	.367	-.501	290	1446	-.015	.140	.668	-.561	290	1537	-.257	.226	.408	-1.979
290	1357	-.012	.138	.423	-.477	290	1447	-.023	.137	.659	-.393	290	1538	-.282	.255	.425	-2.106
290	1358	-.013	.138	.430	-.527	290	1448	-.002	.131	.575	-.412	290	1539	-.108	.227	.679	-1.181
290	1359	-.005	.116	.361	-.398	290	1449	-.012	.130	.527	-.641	290	1540	-.064	.177	.607	-.835
290	1360	-.010	.117	.375	-.403	290	1450	-.027	.063	.267	-.446	290	1541	-.010	.177	.795	-.711
290	1401	-.128	.314	.973	-1.308	290	1451	-.027	.063	.272	-.456	290	1542	-.027	.170	.809	-.818
290	1402	-.072	.278	.936	-1.054	290	1452	-.030	.063	.253	-.454	290	1543	-.126	.164	.365	-1.598
290	1403	-.069	.238	.698	-1.065	290	1453	-.023	.058	.315	-.496	290	1544	-.148	.166	.386	-1.494
290	1404	-.189	.213	.424	-1.054	290	1454	-.021	.062	.401	-.676	290	1545	-.086	.159	.483	-.758
290	1405	-.027	.317	.931	-1.060	290	1455	-.007	.104	.365	-.383	290	1546	-.085	.149	.404	-6.98
290	1406	-.051	.271	.856	-.999	290	1456	-.024	.117	.343	-.419	290	1547	-.051	.146	.534	-6.00
290	1407	-.042	.187	.752	-.783	290	1457	-.003	.119	.356	-.441	290	1548	-.092	.142	.457	-6.28
290	1408	-.038	.163	.607	-.559	290	1458	-.002	.119	.416	-.435	290	1549	-.087	.141	.588	-7.00
290	1409	-.180	.162	.560	-.693	290	1459	-.052	.121	.368	-.542	290	1550	-.067	.145	.434	-5.86
290	1410	-.190	.377	1.493	-1.124	290	1501	-.615	.230	1.149	-1.485	290	1551	-.076	.153	.616	-5.87
290	1411	-.256	.315	1.331	-1.208	290	1502	-.552	.221	1.07	-1.431	290	1552	-.034	.150	.563	-5.67
290	1412	-.249	.166	.833	-.422	290	1503	-.465	.226	.166	-1.310	290	1553	-.006	.150	.706	-5.79
290	1413	-.033	.182	.717	-.626	290	1504	-.340	.180	.400	-1.150	290	1554	-.008	.128	.573	-5.15
290	1414	-.204	.161	.439	-.741	290	1505	-.331	.174	.332	-1.139	290	1555	-.011	.126	.566	-6.71
290	1415	-.258	.376	1.602	-1.117	290	1506	-.432	.195	.191	-1.146	290	1556	-.050	.139	.406	-4.73
290	1416	-.290	.356	1.519	-1.205	290	1507	-.435	.196	.184	-1.152	290	1557	-.087	.173	1.108	-3.80
290	1417	-.254	.217	1.152	-1.224	290	1508	-.451	.202	.176	-1.205	290	1558	-.022	.059	.406	-4.87
290	1418	-.014	.178	.739	-.594	290	1509	-.544	.21	.107	-1.539	290	1559	-.024	.057	.347	-5.14
290	1419	-.217	.151	.393	-.727	290	1510	-.323	.186	.400	-1.053	290	1560	-.013	.127	.637	-4.18
290	1420	-.084	.369	1.264	-1.210	290	1511	-.286	.233	.904	-1.068	290	1561	-.053	.135	.795	-3.54
290	1421	-.125	.357	1.233	-1.213	290	1512	-.258	.240	.954	-1.337	290	1562	-.048	.122	.416	-4.93
290	1422	-.161	.220	.073	-1.210	290	1513	-.444	.168	.070	-1.073	290	1601	-.335	.185	.254	-1.203
290	1423	-.025	.191	.836	-.615	290	1514	-.452	.173	.087	-1.097	290	1602	-.401	.189	.182	-1.159
290	1424	-.181	.187	.563	-.806	290	1515	-.475	.187	.145	-1.188	290	1603	-.296	.167	.206	-9.76
290	1425	-.087	.278	.878	-1.474	290	1516	-.532	.239	.437	-1.304	290	1604	-.287	.160	.214	-6.67
290	1426	-.017	.293	.890	-1.745	290	1517	-.326	.260	.924	-1.062	290	1605	-.337	.174	.222	-1.132
290	1427	-.043	.216	.865	-1.295	290	1518	-.258	.285	.789	-1.344	290	1606	-.328	.171	.216	-1.190
290	1428	-.052	.202	.756	-.784	290	1519	-.400	.159	.071	-.998	290	1607	-.309	.167	.190	-1.222
290	1429	-.153	.199	.648	-.881	290	1520	-.407	.159	.087	-1.004	290	1608	-.286	.159	.260	-1.147
290	1430	-.126	.228	.517	-1.152	290	1521	-.392	.185	.353	-1.189	290	1609	-.291	.161	.260	-1.298
290	1431	-.093	.240	.665	-.821	290	1522	-.339	.244	.614	-1.333	290	1610	-.330	.183	.267	-1.340
290	1432	-.018	.204	.997	-.944	290	1523	-.241	.297	.770	-1.072	290	1611	-.391	.185	.197	-1.284
290	1433	-.062	.195	.825	-.698	290	1524	-.217	.306	.721	-1.463	290	1612	-.283	.163	.215	-9.19
290	1434	-.143	.206	.764	-1.224	290	1525	-.404	.197	.246	-1.066	290	1613	-.312	.162	.180	-1.125
290	1435	-.073	.182	.602	-1.138	290	1526	-.407	.198	.181	-1.616	290	1614	-.315	.166	.174	-1.176
290	1436	-.081	.170	.484	-.821	290	1527	-.375	.255	.682	-1.582	290	1615	-.289	.194	.333	-1.718
290	1437	-.011	.176	.900	-.724	290	1528	-.242	.281	.634	-1.482	290	1616	-.265	.180	.312	-1.154
290	1438	-.022	.164	.008	-.628	290	1529	-.116	.275	.892	-1.163	290	1617	-.241	.160	.290	-1.038
290	1439	-.055	.175	.824	-.726	290	1530	-.097	.270	.826	-1.365	290	1618	-.239	.154	.238	-9.20
290	1440	-.030	.198	.896	-.948	290	1531	-.367	.216	.301	-1.507	290	1619	-.257	.161	.257	-9.17
290	1441	-.016	.184	.055	-.781	290	1532	-.410	.249	.237	-1.930	290	1620	-.272	.184	.291	-1.293
290	1442	-.053	.178	.000	-.446	290	1533	-.241	.297	.893	-1.606	290	1621	-.261	.180	.309	-1.195
290	1443	-.008	.169	.917	-.576	290	1534	-.093	.251	.699	-1.162	290	1622	-.246	.163	.281	-9.22

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	1623	263	177	220	-1.197	290	1729	221	145	220	-.870	290	1835	192	147	260	-1.137
290	1624	293	178	220	-1.332	290	1730	101	193	563	-.811	290	1836	196	153	230	-.874
290	1625	294	202	230	-1.334	290	1731	195	132	292	-.828	290	1837	197	110	275	-.553
290	1626	299	197	230	-1.442	290	1732	203	141	246	-.809	290	1838	222	159	255	-1.128
290	1627	297	196	230	-1.119	290	1733	193	139	259	-.709	290	1839	233	180	219	-1.384
290	1628	298	191	230	-1.111	290	1734	228	144	238	-.752	290	1840	138	134	264	-.811
290	1629	304	205	230	-1.352	290	1735	188	150	275	-.838	290	1841	144	127	266	-.647
290	1630	261	195	230	-1.311	290	1736	157	148	270	-.765	290	1842	182	135	257	-.769
290	1631	249	194	230	-2.200	290	1737	157	138	290	-.585	290	1843	144	140	317	-.745
290	1632	228	163	230	-1.341	290	1738	141	137	197	-.710	290	1844	100	132	353	-1.418
290	1633	219	158	230	-1.117	290	1739	133	137	216	-.656	290	1845	106	121	333	-.578
290	16333	249	170	230	-1.256	290	1740	126	159	321	-.504	290	1846	109	121	334	-.503
290	163333	219	181	230	-1.342	290	1741	108	121	285	-.501	290	1847	118	119	386	-.501
290	1633333	223	178	230	-1.733	290	1742	125	120	311	-.456	290	1848	107	122	409	-.556
290	16333333	206	176	230	-1.300	290	1743	128	119	251	-.527	290	1849	095	121	421	-.540
290	163333333	198	163	230	-1.369	290	1744	287	161	249	-.479	290	1850	099	135	338	-.545
290	1640	223	219	230	-1.369	290	1801	287	161	303	-1.115	290	1851	096	125	264	-.527
290	1641	213	175	230	-1.111	290	1802	381	175	272	-1.079	290	1852	099	124	272	-.506
290	1642	171	151	230	-1.369	290	1803	315	166	179	-1.007	290	1853	101	124	255	-.602
290	1643	091	134	230	-1.546	290	1804	294	167	214	-1.074	290	1854	110	125	256	-.576
290	1644	084	132	230	-1.546	290	1805	285	164	180	-.947	290	1901	505	284	531	-.288
290	1701	267	140	230	-1.859	290	1806	364	175	191	-1.062	290	1902	505	284	379	-1.225
290	1702	263	145	230	-1.807	290	1807	301	170	196	-1.064	290	1903	487	238	229	-1.421
290	1703	265	144	230	-1.827	290	1808	320	171	160	-1.081	290	1904	500	231	219	-1.471
290	1704	271	149	230	-1.813	290	1809	295	171	214	-1.073	290	1905	526	234	308	-1.444
290	1705	257	142	230	-1.804	290	1810	368	160	244	-1.157	290	1906	531	194	039	-1.377
290	1706	266	145	230	-1.800	290	1811	250	158	202	-1.073	290	1908	539	191	012	-1.421
290	1707	260	145	230	-1.800	290	1812	329	170	336	-.822	290	1909	489	200	099	-1.524
290	1708	339	154	230	-1.900	290	1813	351	177	203	-1.048	290	1910	416	202	074	-1.533
290	1709	346	152	230	-1.900	290	1814	351	177	201	-1.146	290	1911	415	189	152	-1.042
290	1710	277	147	230	-1.866	290	1815	109	151	332	-.949	290	1912	429	179	070	-1.024
290	1711	254	140	230	-1.200	290	1816	148	164	337	-.771	290	1913	415	188	227	-1.174
290	1712	323	142	230	-1.110	290	1817	148	164	352	-1.038	290	1914	511	223	233	-1.712
290	1713	248	133	230	-1.888	290	1818	182	180	379	-.875	290	1915	550	227	306	-1.923
290	1714	275	136	230	-1.792	290	1819	143	168	332	-1.018	290	1916	550	153	170	-1.007
290	1715	276	143	230	-1.897	290	1820	260	166	292	-.872	290	1917	563	271	89	-1.643
290	1716	233	138	230	-1.685	290	1821	148	157	187	-.901	290	1918	557	183	333	-1.084
290	1717	215	135	230	-1.685	290	1822	185	179	280	-.656	290	1919	465	192	336	-1.387
290	1718	211	134	230	-1.685	290	1823	180	182	329	-1.072	290	1920	327	190	286	-1.062
290	1719	216	127	230	-1.685	290	1824	282	200	289	-1.199	290	1921	332	200	472	-1.192
290	1720	117	131	230	-1.685	290	1825	282	200	286	-1.334	290	1922	302	183	300	-1.052
290	1721	242	144	230	-1.685	290	1826	168	181	361	-1.157	290	1924	263	167	304	-1.009
290	1722	231	137	230	-1.685	290	1827	157	174	384	-1.165	290	1925	296	167	254	-.970
290	1723	207	127	230	-1.734	290	1828	154	183	417	-.977	290	1926	375	186	194	-1.173
290	1724	208	129	230	-1.794	290	1829	299	209	316	-1.383	290	1927	291	148	200	-.884
290	1725	096	132	230	-1.582	290	1830	154	173	340	-1.555	290	1928	305	175	318	-1.140
290	1726	249	160	230	-1.605	290	1831	125	153	361	-.881	290	1929	279	146	198	-.897
290	1727	214	143	230	-1.798	290	1832	105	155	392	-.713	290	1930	545	205	034	-1.583
290	1728	220	140	230	-1.775	290	1833	252	181	295	-1.232	290	2301	034	163	824	-.503
290						290	1834	278	174	306	-.961	290	2302	039	161	845	-.473

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	2303	-.051	.182	.981	-.585	290	24331	-.053	.108	.315	-.421	290	2617	-.093	.135	.455	-.389
290	2304	-.023	.187	1.086	-.566	290	24332	-.028	.104	.312	-.386	290	2618	-.096	.121	.319	-.377
290	2305	-.031	.176	.971	-.593	290	24333	-.017	.099	.337	-.353	290	2619	-.096	.121	.319	-.377
290	2306	-.001	.180	.909	-.538	290	24334	-.026	.098	.318	-.348	290	2620	-.104	.115	.296	-.355
290	2307	-.010	.170	.889	-.492	290	24335	-.058	.102	.292	-.392	290	2621	-.091	.115	.313	-.355
290	2308	-.022	.177	.962	-.483	290	25001	-.245	.143	.176	-.908	290	2622	-.085	.113	.317	-.350
290	2309	-.010	.178	.959	-.508	290	25002	-.243	.151	.242	-.791	290	2623	-.075	.114	.333	-.484
290	2310	-.016	.180	.951	-.496	290	25003	-.214	.148	.212	-.847	290	2624	-.096	.113	.285	-.434
290	2311	-.053	.175	1.002	-.443	290	25004	-.184	.123	.202	-.606	290	2625	-.097	.120	.243	-.332
290	2312	-.039	.187	.990	-.450	290	25005	-.189	.122	.191	-.612	290	2626	-.092	.119	.258	-.334
290	2313	-.021	.197	.863	-.934	290	25006	-.187	.125	.191	-.599	290	2627	-.082	.117	.274	-.330
290	2314	-.000	.176	.709	-.718	290	25007	-.194	.139	.269	-.910	290	2628	-.073	.117	.288	-.330
290	2315	-.014	.143	.580	-.543	290	25008	-.186	.138	.249	-.697	290	2629	-.075	.119	.313	-.604
290	2316	-.051	.178	.913	-.714	290	25009	-.178	.138	.319	-.679	290	2701	-.165	.128	.234	-.600
290	2317	-.060	.184	.805	-.769	290	25101	-.163	.137	.326	-.644	290	2702	-.154	.125	.237	-.573
290	2318	-.004	.169	.706	-.624	290	25111	-.122	.130	.225	-.581	290	2703	-.157	.121	.263	-.631
290	2319	-.036	.144	.534	-.514	290	25122	-.133	.129	.223	-.581	290	2704	-.095	.116	.360	-.483
290	2320	-.013	.148	.648	-.461	290	25133	-.132	.102	.225	-.511	290	2705	-.172	.121	.265	-.642
290	2321	-.009	.142	.580	-.448	290	25144	-.147	.129	.333	-.602	290	2706	-.147	.126	.274	-.580
290	2322	-.012	.151	.487	-.490	290	25155	-.131	.132	.342	-.616	290	2707	-.147	.127	.273	-.587
290	2401	-.114	.160	.617	-.799	290	25166	-.123	.123	.352	-.582	290	2708	-.100	.117	.337	-.492
290	2402	-.093	.150	.607	-.683	290	25177	-.120	.123	.251	-.575	290	2709	-.139	.125	.273	-.468
290	2403	-.111	.137	.458	-.612	290	25188	-.114	.123	.250	-.577	290	2710	-.159	.134	.364	-.477
290	2404	-.160	.132	.291	-.631	290	25199	-.130	.127	.246	-.607	290	2711	-.159	.136	.361	-.477
290	2405	-.122	.185	.531	-.971	290	25210	-.121	.139	.432	-.633	290	2712	-.164	.136	.352	-.499
290	2406	-.094	.158	.467	-.786	290	25221	-.106	.129	.326	-.553	290	2713	-.123	.124	.346	-.427
290	2407	-.102	.144	.393	-.703	290	25232	-.124	.129	.305	-.536	290	2714	-.116	.103	.219	-.550
290	2408	-.117	.139	.408	-.797	290	25243	-.117	.118	.292	-.569	290	2715	-.086	.128	.267	-.537
290	2409	-.143	.119	.229	-.600	290	25254	-.101	.118	.307	-.533	290	2716	-.098	.130	.268	-.534
290	2410	-.127	.190	.669	-.989	290	25265	-.074	.116	.339	-.517	290	2717	-.097	.116	.250	-.591
290	2411	-.064	.144	.436	-.605	290	25276	-.098	.121	.251	-.580	290	2718	-.106	.115	.293	-.499
290	2412	-.043	.128	.438	-.537	290	25287	-.097	.124	.419	-.603	290	2719	-.079	.120	.332	-.503
290	2413	-.070	.130	.303	-.518	290	25298	-.075	.120	.420	-.540	290	2720	-.089	.121	.323	-.512
290	2414	-.090	.129	.275	-.530	290	25309	-.068	.120	.425	-.534	290	2721	-.079	.121	.301	-.454
290	2415	-.098	.180	.556	-.957	290	25320	-.061	.119	.419	-.523	290	2722	-.079	.120	.313	-.452
290	2416	-.067	.158	.404	-.776	290	25331	-.203	.147	.225	-.738	290	2723	-.077	.121	.304	-.477
290	2417	-.168	.153	.376	-.717	290	25342	-.192	.146	.220	-.1044	290	2724	-.090	.122	.290	-.471
290	2418	-.127	.130	.342	-.599	290	25353	-.178	.133	.266	-.673	290	2725	-.062	.111	.332	-.489
290	2419	-.129	.142	.299	-.628	290	25364	-.175	.133	.255	-.651	290	2726	-.103	.112	.295	-.516
290	2420	-.105	.133	.316	-.587	290	25375	-.165	.130	.243	-.900	290	2727	-.077	.111	.310	-.475
290	2421	-.080	.130	.328	-.550	290	25386	-.161	.127	.236	-.735	290	2728	-.070	.116	.314	-.506
290	2422	-.081	.125	.303	-.509	290	25397	-.159	.129	.236	-.774	290	2729	-.078	.115	.310	-.505
290	2423	-.082	.127	.384	-.488	290	25408	-.151	.124	.236	-.590	290	2730	-.071	.116	.319	-.506
290	2424	-.092	.126	.375	-.502	290	25419	-.154	.132	.285	-.725	290	2731	-.075	.111	.288	-.493
290	2425	-.052	.104	.254	-.485	290	25430	-.119	.127	.335	-.584	290	2732	-.074	.111	.297	-.496
290	2426	-.044	.101	.298	-.481	290	25441	-.105	.121	.311	-.627	290	2733	-.080	.112	.285	-.506
290	2427	-.061	.100	.243	-.546	290	25452	-.102	.119	.316	-.601	290	2734	-.073	.111	.282	-.490
290	2428	-.013	.100	.332	-.404	290	25463	-.092	.119	.333	-.539	290	2735	-.077	.115	.310	-.477
290	2429	-.022	.107	.330	-.395	290	25474	-.104	.116	.293	-.445	290	2736	-.078	.116	.310	-.482
290	2430	-.010	.105	.328	-.373	290	25485	-.087	.135	.456	-.577	290	2737	-.073	.115	.314	-.486

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	2738	069	114	310	477	290	2925	192	132	226	761	300	1141	447	226	156	498
290	2739	075	113	268	470	290	2926	094	117	308	592	300	1142	447	216	148	107
290	2801	183	123	239	665	290	2927	095	116	296	576	300	1143	054	160	660	633
290	2802	131	138	325	547	290	2928	090	114	307	565	300	1144	043	163	639	668
290	2803	178	120	289	541	290	2930	078	115	302	446	300	1145	090	167	618	038
290	2804	183	121	287	550	290	2931	059	100	303	419	300	1146	218	199	463	064
290	2805	165	136	352	550	290	2932	067	088	225	372	300	1147	300	191	242	102
290	2806	171	127	305	550	290	2933	052	088	241	368	300	1148	285	173	202	654
290	2807	175	126	289	586	290	2934	087	089	213	407	300	1149	072	135	420	573
290	2808	180	129	281	599	290	2935	065	089	220	372	300	1150	041	133	427	542
290	2809	170	125	233	584	300	1101	307	179	475	144	300	1151	084	139	401	663
290	2810	090	116	273	588	300	1102	309	188	422	082	300	1152	161	163	580	045
290	2811	101	116	252	600	300	1103	376	219	267	195	300	1153	216	159	291	982
290	2812	099	119	309	494	300	1104	550	255	283	618	300	1154	190	149	263	884
290	2813	102	119	304	515	300	1105	609	262	126	869	300	1155	060	113	317	568
290	2814	098	119	314	536	300	1106	227	229	794	230	300	1156	062	115	300	490
290	2815	084	127	416	498	300	1107	240	225	869	060	300	1157	082	116	283	485
290	2816	083	126	409	500	300	1108	400	203	336	140	300	1158	091	122	494	563
290	2817	085	126	404	509	300	1109	403	200	118	275	300	1159	136	132	272	968
290	2818	101	128	406	519	300	1110	419	221	204	443	300	1160	138	136	407	792
290	2819	101	132	447	533	300	1111	448	202	141	169	300	1161	087	115	276	466
290	2820	073	113	272	477	300	1112	440	198	135	139	300	1162	074	114	269	450
290	2821	074	114	271	471	300	1113	325	278	620	491	300	1163	072	111	289	444
290	2822	072	113	275	470	300	1114	450	229	632	410	300	1164	078	106	274	419
290	2823	085	121	382	463	300	1115	489	210	138	328	300	1165	063	105	337	394
290	2824	084	121	388	459	300	1116	458	122	183	804	300	1166	049	106	312	385
290	2901	051	130	370	531	300	1117	408	180	115	041	300	1201	092	220	822	108
290	2902	032	132	443	497	300	1118	351	166	103	968	300	1202	028	236	918	922
290	2903	037	123	464	466	300	1119	409	288	641	896	300	1203	020	292	1039	058
290	2904	012	143	1	516	300	1120	395	238	549	548	300	1204	094	335	1	449
290	2905	008	144	762	482	300	1121	492	233	469	507	300	1205	163	166	429	753
290	2906	032	133	765	466	300	1122	456	186	118	050	300	1206	067	181	582	626
290	2907	089	194	979	447	300	1123	453	179	118	008	300	1207	014	213	883	962
290	2908	082	177	979	447	300	1124	430	177	150	004	300	1208	092	261	1	043
290	2909	172	168	953	918	300	1125	290	268	590	607	300	1209	018	314	1	014
290	2910	146	152	468	686	300	1126	307	239	609	304	300	1210	101	171	669	653
290	2911	285	173	217	264	300	1127	449	247	609	293	300	1211	056	182	907	476
290	2912	215	141	309	764	300	1128	516	214	421	490	300	1212	290	229	1	310
290	2913	266	180	339	306	300	1129	489	191	048	181	300	1213	340	298	1	005
290	2914	094	116	333	454	300	1130	472	188	071	155	300	1214	308	346	1	988
290	2915	246	179	265	472	300	1131	176	240	613	413	300	1215	197	158	339	714
290	2916	207	166	346	592	300	1132	242	283	775	396	300	1216	008	115	475	468
290	2917	123	122	332	539	300	1133	407	300	649	721	300	1217	188	193	969	589
290	2918	180	139	300	728	300	1134	531	275	422	773	300	1218	230	316	1	687
290	2919	188	151	300	991	300	1135	518	231	181	476	300	1219	198	345	1	607
290	2920	204	136	292	936	300	1136	462	191	167	327	300	1220	205	167	399	759
290	2921	193	143	237	936	300	1137	100	208	657	273	300	1221	076	178	614	859
290	2922	197	133	191	799	300	1138	126	222	670	210	300	1222	149	223	1	092
290	2923	171	135	224	598	300	1139	224	244	339	260	300	1223	199	317	1	350
290	2924	172	135	321	636	300	1140	397	259	560	714	300	1224	194	307	1	337



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	1225	.273	.162	.233	-.859	300	1316	.506	.277	1.368	-.241	300	1407	-.012	.212	.730	-.953
300	1226	-.104	.160	.466	-.761	300	1317	.533	.281	1.496	-.269	300	1408	-.062	.160	.606	-.715
300	1227	.104	.204	.850	-1.177	300	1318	.526	.276	1.540	-.318	300	1409	-.170	.166	.315	-.891
300	1228	.197	.271	1.397	-.926	300	1319	.509	.272	1.544	-.424	300	1410	-.131	.406	1.139	-1.004
300	1229	.179	.294	1.368	-.833	300	1320	.395	.227	1.296	-.458	300	1411	-.026	.420	1.233	-1.549
300	1230	-.277	.177	.301	-1.108	300	1321	.321	.248	1.131	-.351	300	1412	-.110	.153	.618	-.653
300	1231	-.080	.160	.558	-.880	300	1322	.348	.243	1.115	-.375	300	1413	-.086	.160	.428	-.858
300	1232	.103	.192	.866	-1.345	300	1323	.330	.234	1.047	-.447	300	1414	-.224	.155	.353	-.950
300	1233	.150	.216	1.174	-.714	300	1324	.371	.246	1.234	-.365	300	1415	-.161	.360	.901	-1.438
300	1234	.157	.214	1.112	-.694	300	1325	.288	.216	1.153	-.372	300	1416	-.139	.382	.855	-1.496
300	1235	-.182	.141	.378	-.759	300	1326	.236	.243	1.496	-.355	300	1417	-.048	.223	.702	-1.288
300	1236	-.083	.132	.521	-.540	300	1327	.260	.238	1.389	-.298	300	1418	-.130	.158	.380	-1.235
300	1237	.008	.149	.734	-.532	300	1328	.242	.229	1.255	-.413	300	1419	-.270	.152	.227	-.908
300	1238	.042	.164	.836	-.554	300	1329	.218	.227	1.150	-.403	300	1420	-.328	.362	.912	-1.360
300	1239	.053	.175	.799	-.557	300	1330	.107	.173	1.927	-.414	300	1421	-.295	.395	.982	-1.479
300	1240	-.129	.129	.404	-.657	300	1331	.185	.210	1.975	-.547	300	1422	-.032	.253	.819	-1.565
300	1241	-.102	.123	.334	-.592	300	1332	.182	.199	1.022	-.434	300	1423	-.149	.156	.484	-.903
300	1242	-.073	.130	.394	-.687	300	1333	.166	.184	1.892	-.438	300	1424	-.262	.155	.247	-.941
300	1243	-.065	.133	.452	-.539	300	1334	.156	.185	1.886	-.432	300	1425	-.359	.318	.764	-1.436
300	1244	-.077	.150	.498	-.886	300	1335	.080	.165	1.878	-.443	300	1426	-.328	.382	1.145	-1.619
300	1245	-.096	.125	.345	-.643	300	1336	.083	.144	1.846	-.451	300	1427	-.127	.273	.761	-1.659
300	1246	-.084	.117	.389	-.567	300	1337	.125	.145	1.882	-.348	300	1428	-.174	.190	.499	-1.310
300	1247	-.057	.122	.344	-.532	300	1338	.097	.141	1.764	-.341	300	1429	-.258	.185	.299	-1.196
300	1248	-.080	.124	.335	-.512	300	1339	.124	.138	1.808	-.336	300	1430	-.376	.267	.462	-1.509
300	1249	-.088	.128	.483	-.554	300	1340	.051	.124	1.556	-.384	300	1431	-.360	.282	.536	-1.655
300	1250	-.022	.118	.360	-.415	300	1341	-.013	.125	1.497	-.547	300	1432	-.199	.236	.570	-1.858
300	1251	-.014	.119	.387	-.421	300	1342	-.001	.128	1.524	-.437	300	1433	-.192	.170	.452	-1.044
300	1252	-.031	.118	.333	-.458	300	1344	-.035	.117	1.427	-.437	300	1434	-.269	.194	.383	-1.158
300	1253	-.037	.128	.440	-.470	300	1345	-.007	.114	1.528	-.312	300	1435	-.316	.255	.385	-1.532
300	1254	-.043	.131	.439	-.916	300	1346	-.048	.112	1.355	-.496	300	1436	-.329	.205	.266	-1.533
300	1255	-.010	.125	.455	-.394	300	1347	-.012	.105	1.358	-.348	300	1437	-.203	.216	.450	-1.563
300	1256	.000	.125	.427	-.411	300	1348	-.008	.104	1.341	-.424	300	1438	-.152	.167	.387	-.939
300	1257	-.026	.110	.346	-.383	300	1349	-.006	.102	1.348	-.373	300	1439	-.194	.160	.465	-.899
300	1258	.027	.125	.564	-.424	300	1350	-.031	.106	1.347	-.427	300	1440	-.203	.204	.541	-1.164
300	1259	-.034	.108	.358	-.392	300	1351	-.041	.095	1.277	-.407	300	1441	-.156	.183	.516	-1.136
300	1301	.228	.234	1.426	-.431	300	1352	-.028	.090	1.286	-.324	300	1442	-.056	.139	.608	-1.069
300	1302	.245	.209	1.133	-.307	300	1353	-.037	.089	1.262	-.362	300	1443	-.129	.134	.428	-.676
300	1303	.132	.206	1.156	-.414	300	1354	-.068	.095	1.248	-.427	300	1444	-.109	.134	.413	-.796
300	1304	.364	.218	1.151	-.302	300	1355	-.130	.115	1.451	-.553	300	1445	-.081	.143	.459	-.922
300	1305	.414	.238	1.127	-.320	300	1356	-.040	.112	1.317	-.400	300	1446	-.079	.147	.444	-.540
300	1306	.381	.218	1.194	-.276	300	1357	-.024	.123	1.512	-.431	300	1447	-.025	.136	.521	-.490
300	1307	.396	.217	1.166	-.292	300	1358	-.021	.122	1.495	-.425	300	1448	-.081	.137	.414	-.559
300	1308	.358	.211	1.134	-.298	300	1359	-.016	.120	1.480	-.392	300	1449	-.032	.135	.414	-.494
300	1309	.382	.230	1.418	-.320	300	1360	-.026	.119	1.414	-.411	300	1450	-.074	.115	.291	-.491
300	1310	.355	.233	1.328	-.372	300	1401	-.334	.279	1.684	-.134	300	1451	-.141	.119	.233	-.553
300	1311	.603	.274	1.573	-.194	300	1402	-.238	.241	1.740	-.168	300	1452	-.064	.113	.340	-.467
300	1312	.619	.269	1.577	-.214	300	1403	-.204	.224	1.726	-.107	300	1453	-.070	.119	.366	-.515
300	1313	.625	.269	1.554	-.194	300	1404	-.288	.201	1.521	-.137	300	1454	-.044	.117	.384	-.481
300	1314	.532	.285	1.543	-.237	300	1405	-.208	.331	1.889	-.200	300	1455	-.021	.099	.373	-.408
300	1315	.520	.272	1.726	-.233	300	1406	-.134	.335	1.775	-.246	300	1456	-.040	.120	.401	-.407

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	1457	.042	.135	.342	-.506	300	1548	-.182	.163	.513	-1.395	300	1636	-.277	.175	.274	-1.309
300	1458	-.006	.131	.353	-.466	300	1549	-.169	.158	.340	-1.279	300	1637	-.215	.158	.360	-.945
300	1459	-.083	.137	.288	-.556	300	1550	-.149	.139	.263	-1.025	300	1638	-.250	.177	.300	-.982
300	1501	-.534	.249	.110	-1.612	300	1551	-.208	.155	.254	-1.098	300	1639	-.218	.179	.314	-1.081
300	1502	-.454	.221	.130	-1.338	300	1552	-.119	.146	.489	-.927	300	1640	-.250	.175	.319	-1.370
300	1503	-.399	.200	.261	-1.492	300	1553	-.055	.143	.522	-.593	300	1641	-.205	.160	.301	-.973
300	1504	-.353	.187	.436	-1.199	300	1554	-.033	.120	.417	-.461	300	1642	-.196	.133	.331	-.890
300	1505	-.335	.181	.261	-1.113	300	1555	-.014	.116	.382	-.476	300	1643	-.080	.123	.352	-.686
300	1506	-.314	.152	.155	-.848	300	1556	-.098	.124	.337	-.524	300	1644	-.103	.130	.637	-.579
300	1507	-.316	.152	.148	-.877	300	1557	-.019	.126	.535	-.488	300	1701	-.181	.141	.316	-.718
300	1508	-.340	.157	.155	-.877	300	1558	-.138	.127	.316	-.573	300	1702	-.215	.157	.324	-.707
300	1509	-.512	.216	.133	-1.333	300	1559	-.069	.121	.366	-.466	300	1703	-.218	.157	.332	-.768
300	1510	-.362	.187	.310	-1.141	300	1560	-.070	.114	.321	-.464	300	1704	-.250	.147	.175	-.789
300	1511	-.344	.188	.599	-1.088	300	1561	-.014	.111	.415	-.341	300	1705	-.259	.156	.321	-.870
300	1512	-.339	.208	.603	-1.234	300	1562	-.031	.133	.328	-.466	300	1706	-.244	.143	.162	-.750
300	1513	-.321	.150	.076	-.841	300	1601	-.310	.171	.259	-.999	300	1707	-.238	.143	.159	-.741
300	1514	-.338	.154	.075	-.871	300	1602	-.359	.177	.251	-1.161	300	1708	-.301	.150	.116	-.821
300	1515	-.353	.158	.120	-.858	300	1603	-.286	.166	.281	-.908	300	1709	-.312	.148	.198	-.927
300	1516	-.476	.185	.000	-1.125	300	1604	-.267	.160	.251	-.936	300	1710	-.257	.144	.214	-.864
300	1517	-.372	.177	.219	-1.192	300	1605	-.249	.173	.329	-.946	300	1711	-.262	.150	.243	-.788
300	1518	-.396	.236	.610	-1.377	300	1606	-.234	.168	.343	-.918	300	1712	-.309	.154	.194	-.827
300	1519	-.347	.166	.132	-.929	300	1607	-.207	.153	.298	-.803	300	1713	-.251	.148	.235	-.755
300	1520	-.358	.167	.155	-1.000	300	1608	-.227	.140	.207	-.785	300	1714	-.230	.147	.268	-.708
300	1521	-.349	.152	.162	-1.007	300	1609	-.227	.144	.199	-.810	300	1715	-.261	.145	.231	-.987
300	1522	-.338	.168	.242	-1.084	300	1610	-.305	.181	.367	-.472	300	1716	-.212	.128	.180	-.936
300	1523	-.311	.185	.495	-1.374	300	1611	-.344	.178	.239	-1.273	300	1717	-.202	.126	.210	-.718
300	1524	-.327	.219	.567	-1.971	300	1612	-.257	.158	.196	-1.250	300	1718	-.199	.127	.214	-.782
300	1525	-.396	.180	.109	-1.208	300	1613	-.269	.150	.196	-.914	300	1719	-.217	.127	.204	-.664
300	1526	-.379	.185	.137	-1.272	300	1614	-.271	.156	.222	-1.049	300	1720	-.258	.145	.148	-.918
300	1527	-.387	.211	.381	-1.648	300	1615	-.294	.177	.341	-1.477	300	1721	-.237	.150	.279	-.803
300	1528	-.342	.220	.603	-1.438	300	1616	-.267	.171	.330	-1.256	300	1722	-.227	.144	.270	-.787
300	1529	-.276	.228	.699	-1.336	300	1617	-.238	.158	.268	-.999	300	1723	-.209	.123	.196	-.621
300	1530	-.270	.258	.702	-1.367	300	1618	-.244	.150	.211	-.895	300	1724	-.209	.125	.173	-.645
300	1531	-.384	.189	.105	-1.368	300	1619	-.256	.155	.205	-1.661	300	1725	-.249	.144	.165	-.810
300	1532	-.402	.209	.122	-2.345	300	1620	-.303	.195	.361	-1.322	300	1726	-.223	.145	.323	-.763
300	1533	-.354	.241	.553	-1.077	300	1621	-.288	.190	.293	-1.258	300	1727	-.219	.140	.231	-.755
300	1534	-.276	.240	.528	-1.583	300	1622	-.269	.174	.261	-1.093	300	1728	-.219	.137	.232	-.712
300	1535	-.224	.236	.670	-1.237	300	1623	-.284	.175	.178	-1.193	300	1729	-.221	.142	.229	-.756
300	1536	-.211	.243	.665	-1.111	300	1624	-.299	.187	.235	-1.233	300	1730	-.222	.205	.438	-.109
300	1537	-.341	.220	.291	-1.935	300	1625	-.313	.198	.459	-1.500	300	1731	-.224	.140	.194	-.831
300	1538	-.354	.226	.335	-1.723	300	1626	-.305	.192	.452	-1.232	300	1732	-.228	.142	.190	-.779
300	1539	-.303	.242	.512	-1.490	300	1627	-.275	.173	.292	-1.038	300	1733	-.194	.137	.215	-.695
300	1540	-.250	.216	.437	-1.198	300	1628	-.268	.167	.309	-.979	300	1734	-.265	.146	.186	-.918
300	1541	-.187	.218	.518	-1.557	300	1629	-.273	.178	.304	-1.162	300	1735	-.246	.138	.236	-.818
300	1542	-.175	.218	.573	-1.150	300	1630	-.300	.193	.204	-1.364	300	1736	-.252	.166	.273	-.924
300	1543	-.224	.179	.251	-1.151	300	1631	-.284	.181	.370	-1.277	300	1737	-.186	.154	.312	-.910
300	1544	-.295	.188	.194	-1.167	300	1632	-.279	.170	.238	-1.273	300	1738	-.199	.132	.247	-.826
300	1545	-.221	.188	.321	-1.135	300	1633	-.242	.161	.234	-1.045	300	1739	-.158	.129	.270	-.742
300	1546	-.192	.164	.523	-1.135	300	1634	-.316	.180	.176	-1.354	300	1740	-.194	.162	.262	-.909
300	1547	-.120	.157	.566	-1.118	300	1635	-.212	.172	.346	-1.318	300	1741	-.169	.120	.310	-.667



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	1742	145	134	268	-1.164	300	1848	132	130	245	-7.15	300	2316	071	121	354	592
300	1743	150	134	271	-7.43	300	1849	119	129	248	-7.41	300	2317	066	134	455	618
300	1744	147	136	272	-7.69	300	1850	087	122	296	-4.96	300	2318	063	133	510	592
300	1801	268	163	327	-9.67	300	1851	087	111	260	-4.77	300	2319	067	127	438	460
300	1802	268	165	317	-9.80	300	1852	094	111	261	-5.09	300	2320	027	126	493	420
300	1803	355	190	242	-1.258	300	1853	102	113	267	-4.96	300	2321	026	129	491	420
300	1804	319	195	229	-1.395	300	1854	112	115	257	-5.04	300	2322	035	133	401	472
300	1805	271	157	207	-8.91	300	1901	596	281	603	-1.121	300	2401	061	149	640	593
300	1806	266	159	191	-9.28	300	1902	410	213	280	-1.120	300	2402	077	156	622	575
300	1807	334	179	176	-1.501	300	1903	321	217	471	-1.209	300	2403	099	144	518	575
300	1808	300	177	193	-1.495	300	1904	481	231	243	-1.648	300	2404	139	141	427	607
300	1809	334	191	275	-1.307	300	1905	394	216	383	-1.259	300	2405	091	160	642	837
300	1810	282	163	113	-9.89	300	1906	449	180	120	-1.059	300	2406	079	147	586	614
300	1811	332	165	106	-9.82	300	1908	470	189	143	-1.269	300	2407	094	140	531	653
300	1812	262	178	314	-1.025	300	1909	460	185	200	-1.327	300	2408	093	136	453	619
300	1813	314	186	362	-1.100	300	1910	473	222	223	-1.522	300	2409	115	126	297	556
300	1814	339	193	290	-1.210	300	1911	369	159	104	-9.36	300	2410	094	150	569	826
300	1815	306	165	140	-1.342	300	1912	334	151	145	-9.46	300	2411	053	135	359	602
300	1816	316	155	139	-9.29	300	1913	389	179	171	-1.223	300	2412	058	129	349	556
300	1817	300	185	181	-1.060	300	1914	523	255	260	-1.826	300	2413	069	127	354	430
300	1818	339	188	306	-1.258	300	1915	545	240	270	-1.910	300	2414	079	124	329	435
300	1819	339	199	299	-1.193	300	1916	392	176	121	-1.127	300	2415	064	125	395	581
300	1820	339	193	219	-1.698	300	1917	401	190	216	-1.337	300	2416	052	145	393	645
300	1821	321	169	162	-1.172	300	1918	325	176	239	-9.26	300	2417	141	145	398	643
300	1822	312	182	238	-1.195	300	1919	389	257	247	-1.422	300	2418	099	138	410	606
300	1823	319	177	262	-1.105	300	1920	341	194	307	-1.351	300	2419	110	133	293	554
300	1824	357	187	218	-1.288	300	1921	317	193	292	-1.388	300	2420	083	135	318	526
300	1825	327	187	179	-1.968	300	1922	290	185	344	-1.380	300	2421	060	129	308	510
300	1826	318	176	173	-1.478	300	1924	236	163	250	-9.58	300	2422	072	124	298	474
300	1827	274	166	228	-1.031	300	1925	278	162	229	-1.107	300	2423	072	127	383	531
300	1828	310	180	246	-1.195	300	1926	333	168	217	-1.119	300	2424	079	127	350	531
300	1829	314	186	244	-1.383	300	1927	244	161	331	-8.18	300	2425	047	092	256	346
300	1830	299	173	151	-1.337	300	1928	282	164	289	-9.11	300	2426	039	091	249	352
300	1831	299	164	180	-1.089	300	1929	237	138	206	-7.02	300	2427	063	092	210	389
300	1832	299	166	159	-1.284	300	1930	545	212	172	-1.411	300	2428	019	092	262	339
300	1833	299	166	163	-1.177	300	2301	086	140	579	-5.71	300	2429	013	095	314	356
300	1834	294	188	253	-1.162	300	2302	087	138	513	-5.45	300	2430	010	095	304	354
300	1835	294	175	256	-1.223	300	2303	083	149	695	-5.71	300	2431	050	097	285	393
300	1836	243	177	267	-1.294	300	2304	032	164	891	-5.12	300	2432	023	094	306	365
300	1837	241	127	068	-8.88	300	2305	027	168	895	-5.31	300	2433	024	099	296	401
300	1838	263	178	252	-1.272	300	2306	038	139	522	-4.70	300	2434	034	099	283	403
300	1839	225	170	322	-1.532	300	2307	062	160	808	-6.39	300	2435	069	094	275	462
300	1840	146	148	250	-1.267	300	2308	010	164	732	-6.70	300	2501	181	143	299	688
300	1841	131	140	231	-8.32	300	2309	013	166	724	-6.72	300	2502	168	133	316	699
300	1842	165	151	219	-8.37	300	2310	005	169	727	-6.33	300	2503	151	132	337	830
300	1843	243	186	208	-1.301	300	2311	040	146	648	-5.56	300	2504	133	129	283	586
300	1844	290	179	203	-1.499	300	2312	059	154	679	-7.91	300	2505	145	128	265	569
300	1845	290	166	303	-8.68	300	2313	087	172	651	-8.61	300	2506	134	130	248	556
300	1846	104	127	293	-5.84	300	2314	060	164	559	-7.11	300	2507	145	146	330	715
300	1847	115	122	235	-6.19	300	2315	039	139	392	-4.59	300	2508	137	145	334	742

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	27001	.131	.119	.225	.634	300	2812	-.091	.138	.380	-.509	300	2812	-.091	.138	.380	-.509
300	27002	-.116	.116	.224	-.607	300	2813	-.106	.137	.381	-.516	300	2813	-.106	.137	.381	-.516
300	27003	-.121	.129	.309	-.512	300	2814	-.101	.136	.370	-.509	300	2814	-.101	.136	.370	-.509
300	27004	-.097	.118	.276	-.711	300	2815	-.081	.119	.337	-.447	300	2815	-.081	.119	.337	-.447
300	27005	-.140	.131	.324	-.522	300	2816	-.078	.119	.332	-.442	300	2816	-.078	.119	.332	-.442
300	27006	-.105	.133	.300	-.557	300	2817	-.073	.120	.330	-.420	300	2817	-.073	.120	.330	-.420
300	27007	-.112	.135	.307	-.577	300	2818	-.101	.122	.334	-.486	300	2818	-.101	.122	.334	-.486
300	27008	-.091	.115	.294	-.449	300	2819	-.103	.126	.330	-.519	300	2819	-.103	.126	.330	-.519
300	27009	-.101	.132	.301	-.556	300	2820	-.073	.122	.344	-.490	300	2820	-.073	.122	.344	-.490
300	27110	-.123	.117	.251	-.530	300	2821	-.078	.123	.333	-.494	300	2821	-.078	.123	.333	-.494
300	27111	-.122	.119	.248	-.532	300	2822	-.077	.123	.337	-.504	300	2822	-.077	.123	.337	-.504
300	27112	-.134	.121	.247	-.566	300	2823	-.082	.114	.289	-.517	300	2823	-.082	.114	.289	-.517
300	27113	-.113	.120	.276	-.511	300	2824	-.082	.113	.294	-.520	300	2824	-.082	.113	.294	-.520
300	27114	-.089	.098	.279	-.491	300	2901	-.104	.124	.292	-.533	300	2901	-.104	.124	.292	-.533
300	27115	-.073	.121	.322	-.487	300	2902	-.050	.124	.406	-.506	300	2902	-.050	.124	.406	-.506
300	27116	-.087	.124	.313	-.509	300	2903	-.058	.133	.340	-.493	300	2903	-.058	.133	.340	-.493
300	27117	-.097	.108	.245	-.534	300	2904	-.037	.136	.791	-.461	300	2904	-.037	.136	.791	-.461
300	27118	-.112	.113	.276	-.536	300	2905	-.046	.136	.380	-.507	300	2905	-.046	.136	.380	-.507
300	27119	-.067	.114	.303	-.443	300	2906	-.056	.134	.353	-.461	300	2906	-.056	.134	.353	-.461
300	27220	-.080	.116	.302	-.454	300	2907	-.001	.171	.840	-.651	300	2907	-.001	.171	.840	-.651
300	27221	-.074	.121	.411	-.447	300	2908	-.008	.151	.849	-.587	300	2908	-.008	.151	.849	-.587
300	27222	-.075	.120	.408	-.468	300	2909	-.136	.145	.596	-.611	300	2909	-.136	.145	.596	-.611
300	27223	-.067	.119	.421	-.461	300	2910	-.120	.135	.599	-.627	300	2910	-.120	.135	.599	-.627
300	27224	-.084	.121	.408	-.474	300	2911	-.232	.171	.234	-.141	300	2911	-.232	.171	.234	-.141
300	27225	-.046	.110	.331	-.455	300	2912	-.158	.136	.412	-.607	300	2912	-.158	.136	.412	-.607
300	27226	-.124	.114	.263	-.554	300	2913	-.222	.180	.282	-.143	300	2913	-.222	.180	.282	-.143
300	27227	-.067	.110	.302	-.469	300	2914	-.077	.115	.422	-.458	300	2914	-.077	.115	.422	-.458
300	27228	-.074	.114	.310	-.460	300	2915	-.207	.180	.304	-.183	300	2915	-.207	.180	.304	-.183
300	27229	-.077	.114	.311	-.460	300	2916	-.167	.160	.388	-.850	300	2916	-.167	.160	.388	-.850
300	27330	-.078	.115	.305	-.468	300	2917	-.126	.132	.307	-.670	300	2917	-.126	.132	.307	-.670
300	27331	-.072	.120	.401	-.535	300	2918	-.148	.141	.364	-.757	300	2918	-.148	.141	.364	-.757
300	27332	-.072	.120	.394	-.536	300	2919	-.145	.151	.311	-.736	300	2919	-.145	.151	.311	-.736
300	27333	-.075	.121	.397	-.540	300	2920	-.170	.134	.228	-.827	300	2920	-.170	.134	.228	-.827
300	27334	-.075	.121	.411	-.537	300	2921	-.160	.141	.275	-.731	300	2921	-.160	.141	.275	-.731
300	27335	-.073	.117	.316	-.443	300	2922	-.199	.150	.250	-.190	300	2922	-.199	.150	.250	-.190
300	27336	-.075	.117	.301	-.441	300	2923	-.136	.137	.338	-.636	300	2923	-.136	.137	.338	-.636
300	27337	-.073	.117	.339	-.455	300	2924	-.138	.138	.339	-.683	300	2924	-.138	.138	.339	-.683
300	27338	-.073	.117	.340	-.452	300	2925	-.172	.143	.214	-.012	300	2925	-.172	.143	.214	-.012
300	27339	-.070	.123	.351	-.501	300	2926	-.088	.114	.286	-.504	300	2926	-.088	.114	.286	-.504
300	28001	-.148	.134	.250	-.653	300	2927	-.085	.113	.291	-.504	300	2927	-.085	.113	.291	-.504
300	28002	-.136	.138	.346	-.618	300	2928	-.089	.112	.280	-.495	300	2928	-.089	.112	.280	-.495
300	28003	-.151	.137	.379	-.666	300	2930	-.085	.118	.280	-.498	300	2930	-.085	.118	.280	-.498
300	28004	-.169	.139	.310	-.666	300	2931	-.058	.091	.281	-.385	300	2931	-.058	.091	.281	-.385
300	28005	-.130	.123	.265	-.645	300	2932	-.063	.091	.272	-.437	300	2932	-.063	.091	.272	-.437
300	28006	-.137	.131	.298	-.660	300	2933	-.054	.090	.266	-.432	300	2933	-.054	.090	.266	-.432
300	28007	-.151	.132	.300	-.620	300	2934	-.084	.092	.233	-.473	300	2934	-.084	.092	.233	-.473
300	28008	-.174	.136	.288	-.918	300	2935	-.054	.091	.233	-.437	300	2935	-.054	.091	.233	-.437
300	28009	-.157	.131	.296	-.722	310	1101	-.313	.165	.233	-.138	300	1101	-.313	.165	.233	-.138
300	28110	-.084	.110	.255	-.528	310	1102	-.295	.176	.279	-.151	300	1102	-.295	.176	.279	-.151
300	28111	-.098	.111	.233	-.547	310	1103	-.375	.231	.453	-.123	300	1103	-.375	.231	.453	-.123

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	1104	.578	.271	.236	-1.771	310	1154	-.219	.173	.190	-1.408	310	1238	.090	.166	.725	-4.888
310	1105	-.657	.257	.114	-1.877	310	1155	-.062	.121	.340	-.542	310	1239	.109	.177	.859	-5.229
310	1106	-.117	.257	.888	-1.094	310	1156	-.062	.131	.397	-.535	310	1240	-.142	.141	.351	-8.03
310	1107	-.131	.265	.935	-.986	310	1157	-.081	.133	.371	-.635	310	1241	-.101	.123	.279	-6.77
310	1108	-.271	.226	.487	-1.099	310	1158	-.089	.144	.459	-.779	310	1242	-.079	.124	.366	-6.95
310	1109	-.363	.209	.286	-1.212	310	1159	-.138	.152	.321	-.997	310	1243	-.084	.128	.433	-6.84
310	1110	-.497	.229	.165	-1.482	310	1160	-.128	.136	.311	-1.036	310	1244	-.088	.141	.421	-9.17
310	1111	-.487	.262	.233	-1.556	310	1161	-.063	.130	.403	-.550	310	1245	-.104	.134	.311	-5.71
310	1112	-.476	.257	.210	-1.496	310	1162	-.046	.128	.444	-.491	310	1246	-.092	.116	.282	-5.24
310	1113	-.113	.297	1.150	-1.632	310	1163	-.072	.125	.373	-.493	310	1247	-.077	.130	.309	-5.52
310	1114	-.210	.312	1.195	-1.083	310	1164	-.080	.113	.238	-.551	310	1248	-.101	.134	.302	-6.12
310	1115	-.402	.256	.834	-1.181	310	1165	-.071	.112	.222	-.542	310	1249	-.110	.120	.325	-6.92
310	1116	-.491	.185	-.034	-1.123	310	1166	-.054	.112	.258	-.570	310	1250	-.010	.118	.416	-4.53
310	1117	-.423	.221	.216	-1.230	310	1201	-.008	.210	1.059	-.851	310	1251	-.008	.118	.417	-4.77
310	1118	-.379	.192	.176	-1.174	310	1202	.144	.226	1.208	-.786	310	1252	-.036	.118	.420	-5.29
310	1119	-.165	.277	.764	-1.273	310	1203	.187	.286	1.425	-.973	310	1253	-.047	.124	.475	-4.68
310	1120	-.189	.273	.880	-1.246	310	1204	.127	.316	1.391	-1.461	310	1254	-.050	.118	.380	-4.51
310	1121	-.342	.294	.700	-1.657	310	1205	-.143	.184	1.425	-.761	310	1255	-.022	.127	.579	-3.63
310	1122	-.443	.213	.706	-1.122	310	1206	-.029	.194	1.391	-.603	310	1256	-.010	.127	.556	-3.67
310	1123	-.417	.180	.091	-.966	310	1207	.101	.216	.958	-.618	310	1257	-.006	.131	.456	-4.34
310	1124	-.389	.177	.151	-.911	310	1208	.161	.218	.933	-.654	310	1258	-.029	.122	.559	-4.46
310	1125	-.161	.292	.772	-1.320	310	1209	.153	.251	.930	-.649	310	1259	-.021	.126	.614	-4.99
310	1126	-.186	.282	.951	-1.265	310	1210	.037	.192	.806	-.596	310	1301	.219	.233	1.010	-5.94
310	1127	-.333	.278	.545	-1.458	310	1211	.119	.202	.939	-.421	310	1302	.164	.204	.977	-5.48
310	1128	-.454	.204	.381	-1.291	310	1212	.343	.242	1.364	-.337	310	1303	-.027	.179	.830	-5.80
310	1129	-.432	.176	.158	-1.160	310	1213	.511	.278	1.457	-1.097	310	1304	.294	.219	1.112	-3.21
310	1130	-.413	.175	.175	-1.135	310	1214	.521	.310	1.847	-.928	310	1305	.351	.227	1.417	-3.36
310	1131	-.075	.251	.768	-1.375	310	1215	.075	.179	1.847	-.590	310	1306	.328	.225	1.122	-2.99
310	1132	-.112	.266	.741	-1.009	310	1216	.100	.123	.496	-.264	310	1307	.336	.215	1.072	-3.63
310	1133	-.260	.277	.567	-1.438	310	1217	.371	.209	1.050	-.353	310	1308	.284	.201	1.020	-3.56
310	1134	-.422	.240	.401	-1.891	310	1218	.491	.252	1.227	-.462	310	1309	.312	.227	1.131	-2.88
310	1135	-.413	.190	.120	-1.290	310	1219	.493	.278	1.360	-.529	310	1310	.253	.225	1.148	-4.03
310	1136	-.374	.184	.195	-1.280	310	1220	-.078	.170	.671	-.628	310	1311	.524	.272	1.429	-3.14
310	1137	-.047	.208	.883	-.901	310	1221	-.088	.174	.807	-.468	310	1312	.541	.262	1.498	-2.63
310	1138	-.065	.219	.691	-1.145	310	1222	.354	.204	1.110	-.221	310	1313	.574	.260	1.485	-1.47
310	1139	-.181	.234	.694	-1.333	310	1223	.473	.237	1.317	-.535	310	1314	.454	.254	1.455	-1.53
310	1140	-.353	.236	.372	-1.417	310	1224	.478	.252	1.360	-.476	310	1315	.416	.245	1.697	-4.22
310	1141	-.396	.198	.120	-1.471	310	1225	.147	.164	.433	-.753	310	1316	.589	.286	1.662	-2.12
310	1142	-.387	.192	.126	-1.162	310	1226	.025	.170	.622	-.484	310	1317	.597	.283	1.636	-2.61
310	1143	-.037	.197	.884	-1.021	310	1227	.250	.209	1.088	-.382	310	1318	.573	.270	1.535	-2.99
310	1144	-.017	.203	1.035	-1.186	310	1228	.414	.209	1.147	-.478	310	1319	.544	.263	1.520	-2.03
310	1145	-.097	.211	.775	-1.034	310	1229	.411	.222	1.189	-.811	310	1320	.312	.205	1.127	-3.89
310	1146	-.280	.242	.610	-1.580	310	1230	-.196	.159	.436	-.739	310	1321	.478	.255	1.409	-4.09
310	1147	-.337	.209	.242	-1.361	310	1231	-.028	.152	.561	-.520	310	1322	.502	.253	1.388	-5.56
310	1148	-.314	.170	.289	-.860	310	1232	.184	.176	.947	-.374	310	1323	.471	.236	1.379	-2.37
310	1149	-.073	.143	.523	-.792	310	1233	.243	.206	1.046	-.342	310	1324	.420	.230	1.218	-2.18
310	1150	-.028	.147	.618	-.706	310	1234	.256	.222	1.073	-.629	310	1325	.247	.213	1.386	-5.00
310	1151	-.075	.153	.553	-.924	310	1235	-.159	.137	.422	-.657	310	1326	.395	.211	1.032	-2.13
310	1152	-.164	.202	.749	-1.554	310	1236	-.067	.144	.567	-.694	310	1327	.420	.211	1.097	-1.73
310	1153	-.250	.189	.175	-1.643	310	1237	.039	.151	.681	-.501	310	1328	.387	.222	1.352	-2.51

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	1329	.361	.219	1.274	-.285	310	1420	-.545	.342	1.281	-1.667	310	1511	-.390	.162	.209	-1.005
310	1330	.153	.180	.890	-.444	310	1421	-.545	.367	1.215	-1.665	310	1512	-.401	.181	.198	-1.280
310	1331	.251	.265	1.399	-.659	310	1422	-.331	.359	1.620	-1.826	310	1513	-.331	.149	.140	-.889
310	1332	.237	.200	.925	-.399	310	1423	-.236	.214	1.325	-1.584	310	1514	-.343	.151	.126	-.889
310	1333	.220	.183	.841	-.324	310	1424	-.280	.191	1.281	-1.973	310	1515	-.353	.154	.122	-.894
310	1334	.210	.184	.851	-.329	310	1425	-.670	.300	1.908	-2.146	310	1516	-.421	.155	.065	-1.080
310	1335	.112	.168	.763	-.431	310	1426	-.635	.315	1.720	-1.945	310	1517	-.386	.155	.160	-1.000
310	1336	.135	.149	.696	-.360	310	1427	-.385	.340	1.759	-1.835	310	1518	-.416	.171	.091	-1.313
310	1337	.191	.154	.888	-.202	310	1428	-.271	.202	1.424	-1.490	310	1519	-.303	.142	.184	-.766
310	1338	.158	.149	.794	-.292	310	1429	-.313	.180	1.264	-1.424	310	1520	-.313	.142	.170	-.766
310	1339	.188	.146	.858	-.268	310	1430	-.604	.278	1.436	-1.688	310	1521	-.328	.158	.117	-1.169
310	1340	.070	.134	.582	-.392	310	1431	-.601	.295	1.573	-1.810	310	1522	-.324	.164	.151	-1.346
310	1341	.052	.123	.493	-.529	310	1432	-.410	.306	1.395	-1.619	310	1523	-.324	.177	.231	-1.480
310	1342	.036	.127	.560	-.499	310	1433	-.290	.203	1.412	-1.279	310	1524	-.344	.194	.373	-1.575
310	1344	.021	.121	.595	-.364	310	1434	-.344	.198	1.230	-1.392	310	1525	-.332	.173	.198	-1.246
310	1345	.014	.116	.558	-.459	310	1435	-.508	.272	1.271	-2.077	310	1526	-.356	.171	.131	-1.041
310	1346	.095	.115	.329	-.525	310	1436	-.557	.260	1.295	-1.687	310	1527	-.365	.179	.277	-1.465
310	1347	.055	.108	.326	-.465	310	1437	-.365	.259	1.340	-1.819	310	1528	-.355	.183	.287	-1.322
310	1348	.056	.120	.366	-.515	310	1438	-.239	.180	1.351	-1.334	310	1529	-.350	.192	.475	-1.225
310	1349	.047	.120	.401	-.480	310	1439	-.290	.183	1.195	-1.539	310	1530	-.357	.202	.310	-1.551
310	1350	.074	.125	.443	-.564	310	1440	-.316	.247	1.354	-1.639	310	1531	-.352	.170	.236	-1.647
310	1351	.058	.110	.300	-.490	310	1441	-.285	.239	1.401	-1.861	310	1532	-.354	.175	.224	-1.927
310	1352	.041	.102	.306	-.487	310	1442	-.109	.163	1.466	-1.255	310	1533	-.359	.189	.342	-2.157
310	1353	.055	.100	.306	-.476	310	1443	-.214	.156	1.360	-1.072	310	1534	-.337	.195	.372	-1.521
310	1354	.093	.108	.270	-.485	310	1444	-.176	.154	1.417	-.923	310	1535	-.329	.216	.624	-1.153
310	1355	.125	.143	.395	-.534	310	1445	-.109	.154	1.378	-1.160	310	1536	-.327	.232	.655	-1.563
310	1356	.031	.126	.441	-.540	310	1446	-.101	.142	1.414	-1.016	310	1537	-.388	.205	.126	-1.738
310	1357	.021	.121	.430	-.467	310	1447	-.040	.128	1.441	-1.631	310	1538	-.391	.202	.182	-1.525
310	1358	.017	.122	.403	-.443	310	1448	-.121	.133	1.366	-1.662	310	1539	-.390	.214	.372	-1.497
310	1359	.015	.125	.506	-.487	310	1449	-.047	.129	1.410	-.584	310	1540	-.334	.210	.348	-1.134
310	1360	.011	.120	.466	-.471	310	1450	-.069	.125	1.385	-.449	310	1541	-.288	.209	.427	-1.065
310	1401	.567	.244	1.866	-1.566	310	1451	-.168	.133	1.404	-.569	310	1542	-.285	.217	.433	-1.175
310	1402	.453	.217	1.210	-1.224	310	1452	-.075	.122	1.407	-.460	310	1543	-.318	.195	.231	-1.231
310	1403	.408	.218	1.344	-1.605	310	1453	-.090	.125	1.383	-.549	310	1544	-.434	.209	.159	-1.406
310	1404	.421	.190	1.239	-1.207	310	1454	-.057	.122	1.407	-.522	310	1545	-.350	.211	.261	-1.645
310	1405	.486	.300	1.512	-1.829	310	1455	-.039	.093	1.297	-.413	310	1546	-.316	.188	.237	-1.082
310	1406	.442	.330	1.607	-1.569	310	1456	-.045	.133	1.357	-.482	310	1547	-.215	.168	.457	-.907
310	1407	.197	.254	.498	-1.327	310	1457	-.049	.129	1.367	-.529	310	1548	-.297	.182	.410	-1.139
310	1408	.166	.166	.353	-1.386	310	1458	-.010	.125	1.397	-.418	310	1549	-.233	.167	.326	-1.106
310	1409	.247	.172	.293	-1.347	310	1459	-.118	.136	1.324	-.555	310	1550	-.241	.176	.213	-1.308
310	1410	.340	.415	.733	-1.734	310	1501	-.526	.260	1.176	-1.472	310	1551	-.373	.217	.337	-1.657
310	1411	.492	.477	.828	-1.810	310	1502	-.449	.214	1.103	-1.276	310	1552	-.197	.175	.338	-1.174
310	1412	.076	.190	.363	-1.053	310	1503	-.419	.183	1.259	-1.161	310	1553	-.060	.155	.558	-1.529
310	1413	.189	.159	.451	-1.249	310	1504	-.400	.170	1.225	-.966	310	1554	-.042	.133	.470	-1.504
310	1414	.279	.145	.311	-1.184	310	1505	-.400	.175	1.237	-1.116	310	1555	-.024	.128	.425	-1.504
310	1415	.472	.352	.723	-2.185	310	1506	-.325	.158	1.176	-.937	310	1556	-.156	.146	.288	-1.728
310	1416	.471	.664	1.613	-2.240	310	1507	-.329	.157	1.169	-.918	310	1557	-.026	.144	.604	-1.504
310	1417	.186	.330	.613	-1.804	310	1508	-.347	.163	1.155	-1.045	310	1558	-.184	.139	.337	-1.825
310	1418	.185	.161	.352	-1.086	310	1509	-.447	.172	1.121	-1.194	310	1559	-.093	.130	.380	-1.682
310	1419	.259	.137	.149	-.961	310	1510	-.396	.162	1.330	-1.154	310	1560	-.071	.127	.318	-1.465



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	1561	.016	.121	.389	-.374	310	1705	-.311	.149	.179	-.944	310	1811	-.378	.166	.141	-1.172
310	1562	-.045	.128	.369	-.468	310	1706	-.272	.142	.141	-.805	310	1812	-.264	.155	.200	-1.148
310	1601	-.339	.168	.305	-1.031	310	1707	-.267	.142	.153	-.829	310	1813	-.379	.211	.252	-1.372
310	1602	-.370	.168	.317	-1.110	310	1708	-.310	.145	.129	-.913	310	1814	-.397	.214	.209	-1.613
310	1603	-.320	.162	.362	-1.136	310	1709	-.337	.158	.173	-.987	310	1815	-.268	.163	.217	-1.067
310	1604	-.336	.167	.225	-.964	310	1710	-.299	.158	.245	-.971	310	1816	-.263	.156	.216	-.981
310	1605	-.291	.161	.308	-.807	310	1711	-.314	.142	.160	-.907	310	1817	-.268	.164	.248	-.981
310	1606	-.278	.157	.262	-.799	310	1712	-.341	.144	.138	-.895	310	1818	-.292	.179	.292	-1.077
310	1607	-.286	.144	.264	-.761	310	1713	-.301	.142	.168	-.820	310	1819	-.308	.193	.264	-1.349
310	1608	-.264	.147	.219	-.946	310	1714	-.284	.138	.176	-.876	310	1820	-.314	.182	.254	-1.215
310	1609	-.276	.152	.206	-.965	310	1715	-.306	.147	.098	-.933	310	1821	-.305	.161	.221	-1.097
310	1610	-.355	.159	.166	-1.009	310	1716	-.253	.131	.206	-.684	310	1822	-.289	.174	.320	-1.076
310	1611	-.380	.157	.127	-1.048	310	1717	-.239	.130	.188	-.688	310	1823	-.293	.178	.222	-1.117
310	1612	-.324	.150	.165	-.829	310	1718	-.238	.131	.209	-.677	310	1824	-.323	.185	.322	-1.238
310	1613	-.327	.148	.166	-.865	310	1719	-.231	.147	.230	-.700	310	1825	-.306	.191	.212	-2.017
310	1614	-.331	.152	.154	-.897	310	1720	-.246	.133	.145	-.796	310	1826	-.294	.177	.210	-1.497
310	1615	-.303	.162	.197	-.990	310	1721	-.264	.140	.168	-.811	310	1827	-.278	.181	.206	-1.010
310	1616	-.280	.157	.181	-.981	310	1722	-.255	.135	.159	-.732	310	1828	-.301	.187	.375	-1.212
310	1617	-.253	.149	.166	-.923	310	1723	-.265	.135	.114	-.828	310	1829	-.310	.194	.343	-1.340
310	1618	-.262	.148	.192	-.906	310	1724	-.262	.137	.123	-.794	310	1830	-.336	.210	.224	-1.321
310	1619	-.291	.149	.205	-1.075	310	1725	-.286	.140	.245	-.869	310	1831	-.300	.199	.333	-1.145
310	1620	-.328	.175	.248	-1.238	310	1726	-.237	.138	.158	-.825	310	1832	-.301	.195	.359	-1.084
310	1621	-.313	.170	.288	-1.130	310	1727	-.247	.138	.221	-.858	310	1833	-.307	.203	.330	-1.249
310	1622	-.301	.159	.217	-.912	310	1728	-.243	.136	.206	-.823	310	1834	-.309	.174	.196	-1.322
310	1623	-.269	.143	.180	-1.057	310	1729	-.241	.141	.220	-.734	310	1835	-.324	.201	.251	-1.178
310	1624	-.309	.164	.141	-1.529	310	1730	-.237	.205	.465	-1.100	310	1836	-.314	.190	.195	-1.186
310	1625	-.355	.200	.202	-1.264	310	1731	-.281	.161	.344	-1.096	310	1837	-.325	.142	.008	-.881
310	1626	-.348	.197	.223	-1.288	310	1732	-.264	.154	.235	-.819	310	1838	-.350	.198	.135	-1.592
310	1627	-.328	.164	.155	-1.060	310	1733	-.223	.153	.250	-.798	310	1839	-.361	.192	.189	-1.657
310	1628	-.317	.158	.156	-.990	310	1734	-.329	.165	.187	-.946	310	1840	-.212	.161	.317	-.985
310	1629	-.326	.169	.153	-1.404	310	1735	-.265	.166	.203	-.860	310	1841	-.199	.156	.355	-.836
310	1630	-.331	.194	.297	-1.424	310	1736	-.363	.199	.231	-1.473	310	1842	-.272	.183	.191	-1.090
310	1631	-.310	.170	.217	-1.007	310	1737	-.258	.169	.208	-1.157	310	1843	-.286	.185	.180	-1.645
310	1632	-.306	.180	.395	-1.429	310	1738	-.263	.185	.231	-1.526	310	1844	-.305	.224	.254	-2.308
310	1633	-.261	.169	.392	-.996	310	1739	-.211	.173	.251	-1.203	310	1845	-.091	.131	.322	-.625
310	1634	-.378	.191	.326	-1.166	310	1740	-.282	.212	.298	-1.256	310	1846	-.101	.130	.330	-.619
310	1635	-.269	.188	.333	-1.051	310	1741	-.224	.149	.298	-1.001	310	1847	-.122	.137	.313	-.815
310	1636	-.376	.201	.292	-1.269	310	1742	-.231	.194	.225	-.809	310	1848	-.147	.149	.283	-.909
310	1637	-.284	.184	.249	-1.084	310	1743	-.207	.168	.260	-1.403	310	1849	-.141	.150	.288	-1.232
310	1638	-.279	.176	.300	-1.255	310	1744	-.209	.154	.229	-.970	310	1850	-.080	.109	.348	-.489
310	1639	-.245	.178	.246	-1.126	310	1801	-.310	.169	.298	-.919	310	1851	-.084	.116	.272	-.539
310	1640	-.217	.165	.296	-.937	310	1802	-.315	.172	.318	-1.088	310	1852	-.095	.117	.264	-.530
310	1641	-.184	.148	.364	-.868	310	1803	-.400	.196	.192	-1.367	310	1853	-.106	.123	.272	-.953
310	1642	-.219	.141	.270	-.874	310	1804	-.399	.213	.233	-1.454	310	1854	-.119	.126	.275	-.861
310	1643	-.102	.135	.381	-.579	310	1805	-.350	.174	.211	-1.091	310	1901	-.508	.284	.454	-.240
310	1644	-.126	.148	.464	-.703	310	1806	-.350	.177	.232	-1.219	310	1902	-.505	.188	.120	-1.217
310	1701	-.246	.149	.227	-.826	310	1807	-.408	.192	.164	-1.794	310	1903	-.313	.224	.454	-1.265
310	1702	-.260	.144	.196	-1.035	310	1808	-.375	.188	.163	-1.567	310	1904	-.570	.249	.290	-1.980
310	1703	-.265	.145	.207	-.982	310	1809	-.380	.185	.211	-1.737	310	1905	-.372	.244	.762	-1.312
310	1704	-.281	.146	.134	-.941	310	1810	-.352	.169	.099	-1.307	310	1906	-.467	.182	.059	-1.126

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	1908	.503	.196	.060	-1.255	310	2407	-.088	.130	.306	-.609	310	2522	-.103	.112	.291	-.464
310	1909	-.491	.176	.081	-1.142	310	2408	-.081	.126	.324	-.589	310	2523	-.096	.128	.374	-.542
310	1910	-.539	.245	.113	-1.481	310	2409	-.101	.123	.304	-.502	310	2524	-.082	.127	.405	-.502
310	1911	-.376	.147	.149	-.919	310	2410	-.091	.137	.488	-.943	310	2525	-.061	.125	.416	-.464
310	1912	-.369	.169	.173	-1.084	310	2411	-.056	.131	.416	-.685	310	2526	-.096	.130	.277	-.503
310	1913	-.376	.139	.059	-.834	310	2412	-.067	.127	.387	-.638	310	2527	-.094	.113	.270	-.453
310	1914	-.376	.252	.428	-2.476	310	2413	-.074	.119	.286	-.424	310	2528	-.087	.113	.270	-.443
310	1915	-.627	.154	.154	-2.221	310	2414	-.082	.117	.287	-.419	310	2529	-.058	.112	.328	-.420
310	1916	-.337	.187	.593	-.902	310	2415	-.061	.132	.380	-.551	310	2530	-.073	.114	.304	-.442
310	1917	-.409	.183	.113	-1.729	310	2416	-.070	.132	.339	-.522	310	2601	-.149	.141	.309	-.849
310	1918	-.362	.181	.439	-1.136	310	2417	-.143	.136	.331	-.618	310	2602	-.126	.139	.318	-.776
310	1919	-.244	.304	1.103	-1.352	310	2418	-.105	.120	.237	-.495	310	2603	-.122	.133	.315	-.692
310	1920	-.176	.237	-1.665	-.552	310	2419	-.100	.112	.327	-.548	310	2604	-.118	.133	.308	-.796
310	1921	-.180	.246	-1.268	-.552	310	2420	-.075	.121	.287	-.586	310	2605	-.119	.129	.277	-.563
310	1922	-.199	.268	-1.486	-.552	310	2421	-.057	.118	.290	-.531	310	2606	-.113	.126	.272	-.593
310	1924	-.171	.295	-1.132	-.552	310	2422	-.071	.119	.293	-.544	310	2607	-.126	.130	.283	-.801
310	1925	-.160	.174	.174	-.958	310	2423	-.076	.110	.350	-.433	310	2608	-.107	.126	.295	-.676
310	1926	-.169	.195	-1.114	-.552	310	2424	-.081	.109	.325	-.450	310	2609	-.108	.129	.339	-.634
310	1927	-.151	.203	-1.322	-.552	310	2425	-.060	.092	.220	-.463	310	2610	-.100	.125	.336	-.463
310	1928	-.184	.213	-1.322	-.552	310	2426	-.052	.090	.262	-.377	310	2611	-.100	.122	.265	-.523
310	1929	-.154	.168	.892	-.552	310	2427	-.069	.091	.225	-.358	310	2612	-.096	.121	.266	-.535
310	1930	-.202	.078	-1.290	-.552	310	2428	-.031	.089	.241	-.393	310	2613	-.079	.119	.281	-.494
310	23301	-.078	.464	-.528	-.552	310	2429	-.031	.093	.277	-.340	310	2614	-.094	.109	.293	-.517
310	23302	-.079	.443	-.535	-.552	310	2430	-.027	.092	.255	-.349	310	2615	-.075	.117	.314	-.430
310	23303	-.090	.809	-.890	-.552	310	2431	-.068	.095	.225	-.387	310	2616	-.085	.118	.308	-.448
310	23304	-.008	.912	-.650	-.552	310	2432	-.038	.091	.240	-.360	310	2617	-.094	.115	.369	-.522
310	23305	-.002	.955	-.589	-.552	310	2433	-.036	.101	.317	-.413	310	2618	-.093	.115	.370	-.530
310	23306	-.035	.634	-.609	-.552	310	2434	-.042	.100	.296	-.407	310	2619	-.088	.126	.369	-.459
310	23307	-.063	.705	-.548	-.552	310	2435	-.079	.105	.281	-.467	310	2620	-.093	.126	.281	-.444
310	23308	-.023	.994	-.459	-.552	310	2501	-.150	.130	.206	-.682	310	2621	-.092	.124	.281	-.444
310	23309	-.011	.886	-.555	-.552	310	2502	-.165	.141	.302	-.604	310	2622	-.088	.122	.288	-.453
310	23310	-.013	.908	-.555	-.552	310	2503	-.142	.140	.319	-.577	310	2623	-.074	.121	.301	-.433
310	23311	-.063	.117	-.555	-.552	310	2504	-.115	.126	.266	-.557	310	2624	-.089	.108	.315	-.493
310	23312	-.092	.127	-.757	-.552	310	2505	-.134	.126	.249	-.547	310	2625	-.084	.115	.276	-.555
310	23313	-.079	.166	-.718	-.552	310	2506	-.118	.127	.270	-.548	310	2626	-.086	.115	.273	-.557
310	23314	-.055	.144	-.561	-.552	310	2507	-.135	.120	.289	-.591	310	2627	-.060	.112	.293	-.529
310	23315	-.059	.117	-.589	-.552	310	2508	-.128	.120	.286	-.581	310	2628	-.077	.114	.280	-.468
310	23316	-.084	.128	-.598	-.552	310	2509	-.146	.121	.274	-.707	310	2629	-.079	.117	.484	-.468
310	23317	-.064	.148	-.549	-.552	310	2510	-.123	.119	.283	-.645	310	2701	-.128	.131	.313	-.751
310	23318	-.042	.147	-.546	-.552	310	2511	-.089	.115	.304	-.406	310	2702	-.105	.127	.333	-.616
310	23319	-.088	.120	-.535	-.552	310	2512	-.103	.116	.293	-.439	310	2703	-.118	.125	.302	-.548
310	23320	-.052	.120	-.484	-.552	310	2513	-.132	.105	.208	-.582	310	2704	-.102	.121	.308	-.505
310	23321	-.051	.122	-.466	-.552	310	2514	-.117	.128	.325	-.606	310	2705	-.144	.131	.276	-.724
310	23322	-.046	.128	-.488	-.552	310	2515	-.105	.128	.324	-.606	310	2706	-.100	.126	.314	-.665
310	2401	-.040	.169	-.661	-.552	310	2516	-.113	.115	.259	-.500	310	2707	-.114	.129	.304	-.619
310	2402	-.054	.142	-.584	-.552	310	2517	-.110	.115	.259	-.507	310	2708	-.085	.118	.305	-.452
310	2403	-.076	.127	-.512	-.552	310	2518	-.099	.114	.266	-.487	310	2709	-.099	.128	.315	-.530
310	2404	-.121	.126	-.563	-.552	310	2519	-.116	.120	.274	-.622	310	2710	-.127	.127	.234	-.637
310	2405	-.074	.149	-.791	-.552	310	2520	-.110	.125	.303	-.492	310	2711	-.126	.129	.233	-.632
310	2406	-.062	.134	-.555	-.552	310	2521	-.085	.111	.294	-.447	310	2712	-.145	.131	.213	-.703
						310	2522	-.085	.111	.294	-.447	310	2713	-.106	.122	.313	-.490



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	2714	-.103	.104	.196	-.560	310	2901	-.099	.127	.296	-.642	320	1117	-.360	.224	.486	-1.307
310	2715	-.077	.111	.312	-.447	310	2902	-.074	.129	.350	-.554	320	1118	-.323	.213	.395	-1.100
310	2716	-.096	.114	.305	-.495	310	2903	-.077	.123	.335	-.521	320	1119	-.003	.270	.857	-1.008
310	2717	-.098	.124	.350	-.522	310	2904	-.055	.124	.346	-.491	320	1120	-.002	.306	.949	-1.063
310	2718	-.118	.121	.319	-.542	310	2905	-.038	.121	.352	-.466	320	1121	-.160	.352	.840	-1.650
310	2719	-.076	.113	.396	-.488	310	2906	-.069	.122	.329	-.481	320	1122	-.329	.259	.609	-1.111
310	2720	-.091	.115	.396	-.522	310	2907	-.044	.153	.735	-.660	320	1123	-.332	.185	.331	-.927
310	2721	-.084	.123	.333	-.460	310	2908	-.046	.132	.418	-.524	320	1124	-.300	.181	.408	-.912
310	2722	-.085	.123	.326	-.460	310	2909	-.111	.147	.529	-.874	320	1125	-.013	.266	.909	-1.024
310	2723	-.075	.122	.336	-.448	310	2910	-.093	.134	.376	-.548	320	1126	-.017	.292	.936	-1.029
310	2724	-.093	.123	.314	-.536	310	2911	-.268	.171	.191	-1.090	320	1127	-.099	.291	.008	-1.332
310	2725	-.044	.115	.343	-.411	310	2912	-.139	.137	.258	-.681	320	1128	-.288	.269	.995	-1.473
310	2726	-.153	.123	.263	-.549	310	2913	-.263	.183	.344	-1.145	320	1129	-.319	.189	.448	-1.076
310	2727	-.077	.116	.315	-.448	310	2914	-.080	.109	.333	-.475	320	1130	-.301	.189	.451	-1.021
310	2728	-.085	.118	.500	-.474	310	2915	-.250	.193	.344	-1.297	320	1131	-.018	.226	.931	-.928
310	2729	-.066	.116	.507	-.449	310	2916	-.178	.162	.298	-.871	320	1132	-.004	.246	.888	-.945
310	2730	-.086	.119	.491	-.479	310	2917	-.109	.118	.286	-.523	320	1133	-.122	.262	.736	-1.167
310	2731	-.066	.114	.357	-.470	310	2918	-.143	.145	.342	-.712	320	1134	-.319	.251	.697	-1.141
310	2732	-.070	.113	.353	-.472	310	2919	-.157	.162	.399	-1.011	320	1135	-.344	.184	.604	-1.955
310	2733	-.049	.112	.376	-.447	310	2920	-.185	.155	.226	-.674	320	1136	-.342	.201	.405	-1.354
310	2734	-.069	.114	.360	-.461	310	2921	-.188	.155	.431	-.961	320	1137	-.045	.186	.650	-.867
310	2735	-.078	.117	.344	-.543	310	2922	-.276	.168	.176	-1.113	320	1138	-.022	.200	.649	-.947
310	2736	-.084	.117	.334	-.554	310	2923	-.122	.143	.316	-.624	320	1139	-.115	.217	.565	-1.160
310	2737	-.061	.116	.342	-.523	310	2924	-.127	.146	.320	-.668	320	1140	-.273	.242	.643	-1.135
310	2738	-.079	.118	.332	-.545	310	2925	-.208	.153	.318	-1.048	320	1141	-.353	.192	.298	-1.274
310	2739	-.066	.114	.332	-.425	310	2926	-.096	.127	.331	-.509	320	1142	-.341	.187	.283	-1.141
310	2801	-.138	.152	.517	-.794	310	2927	-.104	.126	.370	-.526	320	1143	-.082	.182	.637	-.933
310	2802	-.132	.130	.340	-.613	310	2928	-.072	.125	.400	-.472	320	1144	-.050	.188	.609	-.978
310	2803	-.156	.163	.376	-.921	310	2930	-.087	.108	.315	-.452	320	1145	-.119	.199	.492	-1.191
310	2804	-.201	.171	.273	-.934	310	2931	-.071	.100	.266	-.445	320	1146	-.245	.225	.528	-1.458
310	2805	-.132	.139	.392	-.831	310	2932	-.062	.102	.265	-.407	320	1147	-.290	.190	.725	-1.096
310	2806	-.136	.134	.349	-.622	310	2933	-.061	.098	.247	-.401	320	1148	-.264	.168	.271	-.940
310	2807	-.161	.138	.358	-.879	310	2934	-.089	.102	.219	-.444	320	1149	-.093	.161	.443	-.800
310	2808	-.217	.150	.233	-.088	310	2935	-.056	.101	.296	-.392	320	1150	-.051	.164	.566	-.692
310	2809	-.200	.148	.225	-.030	320	1101	-.233	.156	.271	-.823	320	1151	-.103	.166	.500	-1.030
310	2810	-.079	.126	.370	-.514	320	1102	-.195	.170	.343	-.974	320	1152	-.181	.190	.422	-1.087
310	2811	-.091	.127	.362	-.526	320	1103	-.261	.189	.395	-.118	320	1153	-.234	.176	.258	-1.276
310	2812	-.091	.118	.283	-.500	320	1104	-.416	.284	.411	-1.483	320	1154	-.214	.166	.235	-1.552
310	2813	-.109	.120	.296	-.570	320	1105	-.582	.302	.310	-1.710	320	1155	-.073	.123	.280	-1.636
310	2814	-.111	.121	.281	-.543	320	1106	-.073	.244	.933	-.836	320	1156	-.068	.118	.320	-.476
310	2815	-.092	.132	.362	-.642	320	1107	-.089	.200	.160	-.793	320	1157	-.081	.119	.307	-.505
310	2816	-.085	.131	.369	-.576	320	1108	-.140	.282	.773	-1.119	320	1158	-.089	.126	.410	-.514
310	2817	-.077	.132	.366	-.610	320	1109	-.255	.293	.362	-.850	320	1159	-.132	.136	.270	-.815
310	2818	-.112	.134	.330	-.603	320	1110	-.401	.296	.294	-1.273	320	1160	-.141	.148	.309	-1.055
310	2819	-.122	.124	.303	-.582	320	1111	-.422	.275	.313	-1.692	320	1161	-.060	.120	.352	-.581
310	2820	-.078	.113	.320	-.444	320	1112	-.411	.270	.363	-1.515	320	1162	-.046	.119	.362	-.555
310	2821	-.055	.113	.349	-.423	320	1113	-.064	.283	.982	-1.523	320	1163	-.082	.116	.306	-.554
310	2822	-.078	.114	.330	-.448	320	1114	-.038	.370	.1	-.278	320	1164	-.081	.121	.373	-.514
310	2823	-.093	.123	.319	-.544	320	1115	-.189	.315	.009	-.217	320	1165	-.077	.121	.384	-.537
310	2824	-.100	.124	.314	-.538	320	1116	-.436	.150	.072	-.853	320	1166	-.059	.120	.394	-.464

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
320	1201	.045	.205	.938	.615	320	1251	.010	.119	.409	.398	320	1342	-.042	.127	.415	-.423
320	1202	.168	.214	1.040	.513	320	1252	-.034	.119	.399	-.437	320	1344	-.018	.132	.624	-.404
320	1203	.235	.243	1.109	.998	320	1253	-.055	.129	.372	-.527	320	1345	-.017	.131	.532	-.481
320	1204	.189	.306	1.434	.970	320	1254	-.052	.137	.492	-.611	320	1346	-.116	.111	.274	-.545
320	1205	.000	.199	.662	.580	320	1255	-.048	.143	.700	-.328	320	1347	-.077	.103	.325	-.511
320	1206	.035	.231	.891	.667	320	1256	.033	.141	.644	-.363	320	1348	-.086	.107	.264	-.481
320	1207	.211	.240	1.002	.418	320	1257	.008	.135	.655	-.406	320	1349	-.080	.107	.260	-.444
320	1208	.322	.217	1.239	.310	320	1258	.007	.138	.742	-.568	320	1350	-.109	.113	.274	-.510
320	1209	.274	.254	1.023	.475	320	1259	.018	.129	.647	-.393	320	1351	-.066	.111	.359	-.531
320	1210	.070	.255	.813	.584	320	1301	.251	.252	1.035	-.698	320	1352	-.043	.098	.424	-.392
320	1211	.218	.208	1.349	.404	320	1302	.156	.227	1.149	-.726	320	1353	-.057	.092	.281	-.382
320	1212	.424	.237	1.372	.273	320	1303	-.050	.185	.624	-.796	320	1354	-.096	.097	.259	-.580
320	1213	.508	.236	1.565	.134	320	1304	.174	.211	.933	-.524	320	1355	-.139	.132	.379	-.508
320	1214	.502	.260	1.435	.135	320	1305	.187	.209	1.088	-.370	320	1356	-.031	.125	.401	-.418
320	1215	.031	.187	.655	.579	320	1306	.188	.238	.960	-.534	320	1357	-.032	.131	.366	-.462
320	1216	.262	.166	.792	.245	320	1307	.224	.242	1.101	-.675	320	1358	-.034	.125	.478	-.500
320	1217	.452	.228	1.407	.395	320	1308	.201	.215	.948	-.589	320	1359	-.034	.120	.388	-.484
320	1218	.547	.245	1.597	.369	320	1309	.222	.215	1.138	-.495	320	1360	-.016	.120	.363	-.417
320	1219	.539	.253	1.624	.411	320	1310	.130	.196	.905	-.548	320	1401	-.711	.237	.111	-.684
320	1220	.002	.194	.819	.548	320	1311	.306	.241	1.081	-.536	320	1402	-.569	.210	.026	-.496
320	1221	.165	.195	1.023	.399	320	1312	.345	.245	1.248	-.584	320	1403	-.561	.244	.171	-.208
320	1222	.397	.111	1.660	.174	320	1313	.418	.253	1.366	-.680	320	1404	-.518	.207	.112	-.484
320	1223	.482	.235	1.660	.380	320	1314	.432	.295	1.831	-.602	320	1405	-.776	.318	.375	-.244
320	1224	.458	.239	1.581	.394	320	1315	.262	.195	1.116	-.414	320	1406	-.740	.319	.362	-.209
320	1225	.077	.179	.581	.821	320	1316	.428	.282	1.348	-.504	320	1407	-.549	.315	.342	-.180
320	1226	.100	.181	.811	.480	320	1317	.463	.283	1.331	-.675	320	1408	-.392	.238	.276	-.154
320	1227	.325	.214	1.103	.348	320	1318	.468	.249	1.297	-.618	320	1409	-.382	.200	.291	-.188
320	1228	.431	.230	1.386	.276	320	1319	.449	.240	1.265	-.504	320	1410	-.848	.333	.384	-.212
320	1229	.427	.239	1.388	.315	320	1320	.264	.188	1.034	-.406	320	1411	-.503	.353	.599	-.120
320	1230	.174	.159	.618	.810	320	1321	.358	.241	1.226	-.426	320	1412	-.331	.284	.254	-.180
320	1231	.018	.157	.648	.577	320	1322	.385	.250	1.218	-.406	320	1413	-.362	.176	.203	-.122
320	1232	.172	.172	.846	.351	320	1323	.380	.220	1.240	-.335	320	1414	-.717	.154	.228	-.176
320	1233	.310	.226	1.347	.484	320	1324	.400	.221	1.309	-.193	320	1415	-.337	.277	.288	-.173
320	1234	.311	.241	1.273	.521	320	1325	.202	.196	1.030	-.406	320	1416	-.733	.345	.281	-.182
320	1235	.150	.156	.661	.699	320	1326	.337	.240	1.234	-.505	320	1417	-.332	.348	.384	-.194
320	1236	.056	.151	.661	.748	320	1327	.364	.249	1.292	-.669	320	1418	-.332	.246	.304	-.153
320	1237	.035	.152	.589	.449	320	1328	.355	.224	1.271	-.788	320	1419	-.337	.183	.120	-.156
320	1238	.095	.170	.858	.450	320	1329	.344	.221	1.241	-.726	320	1420	-.672	.260	.082	-.178
320	1239	.110	.192	.996	.781	320	1330	.112	.165	1.178	-.500	320	1421	-.691	.270	.326	-.203
320	1240	.141	.138	.299	.710	320	1331	.215	.208	1.178	-.506	320	1422	-.303	.288	.433	-.197
320	1241	.124	.134	.277	.617	320	1332	.295	.234	1.196	-.586	320	1423	-.323	.233	.300	-.135
320	1242	.100	.134	.337	.619	320	1333	.280	.208	1.078	-.430	320	1424	-.328	.213	.365	-.178
320	1243	.110	.142	.342	.659	320	1334	.271	.208	1.074	-.417	320	1425	-.685	.282	.149	-.190
320	1244	.119	.157	.432	.825	320	1335	.095	.175	.779	-.547	320	1426	-.714	.344	.283	-.218
320	1245	.117	.132	.288	.583	320	1336	.144	.162	.833	-.546	320	1427	-.566	.349	.254	-.206
320	1246	.102	.128	.519	.519	320	1337	.195	.163	.795	-.551	320	1428	-.369	.229	.345	-.162
320	1247	.101	.124	.385	.538	320	1338	.158	.157	.775	-.632	320	1429	-.380	.242	.317	-.182
320	1248	.126	.127	.535	.592	320	1339	.190	.154	.809	-.461	320	1430	-.674	.254	.178	-.191
320	1249	.128	.130	.527	.527	320	1340	.067	.138	.714	-.382	320	1431	-.671	.269	.255	-.181
320	1250	.011	.120	.395	.436	320	1341	.060	.120	.357	-.502	320	1432	-.477	.296	.306	-.166

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1433	3352	218	214	-1	333	155	344	176	202	-1	221	320	1612	302	139	145	-1
1434	3379	218	214	-1	333	155	344	176	202	-1	221	320	1613	302	149	219	-1
1435	3300	218	214	-1	333	155	344	176	202	-1	221	320	1614	302	156	244	-1
1436	3319	218	214	-1	333	155	344	176	202	-1	221	320	1615	302	147	185	-1
1437	3386	218	214	-1	333	155	344	176	202	-1	221	320	1616	302	141	141	-1
1438	3222	218	214	-1	333	155	344	176	202	-1	221	320	1617	302	144	200	-1
1439	3433	218	214	-1	333	155	344	176	202	-1	221	320	1618	302	144	185	-1
1440	4113	218	214	-1	333	155	344	176	202	-1	221	320	1619	302	146	143	-1
1441	3168	218	214	-1	333	155	344	176	202	-1	221	320	1620	302	146	224	-1
1442	1553	218	214	-1	333	155	344	176	202	-1	221	320	1621	302	141	221	-1
1443	1553	218	214	-1	333	155	344	176	202	-1	221	320	1622	302	141	192	-1
1444	1553	218	214	-1	333	155	344	176	202	-1	221	320	1623	302	131	123	-1
1445	1339	218	214	-1	333	155	344	176	202	-1	221	320	1624	302	151	097	-1
1446	1055	218	214	-1	333	155	344	176	202	-1	221	320	1625	302	168	185	-1
1447	0766	218	214	-1	333	155	344	176	202	-1	221	320	1626	302	163	164	-1
1448	0755	218	214	-1	333	155	344	176	202	-1	221	320	1627	302	155	220	-1
1449	0622	218	214	-1	333	155	344	176	202	-1	221	320	1628	302	148	192	-1
1450	111	218	214	-1	333	155	344	176	202	-1	221	320	1629	302	155	220	-1
1451	121	218	214	-1	333	155	344	176	202	-1	221	320	1630	302	174	094	-1
1452	0955	218	214	-1	333	155	344	176	202	-1	221	320	1631	302	174	192	-1
1453	0886	218	214	-1	333	155	344	176	202	-1	221	320	1632	302	159	193	-1
1454	0886	218	214	-1	333	155	344	176	202	-1	221	320	1633	302	157	159	-1
1455	0665	218	214	-1	333	155	344	176	202	-1	221	320	1634	302	163	134	-1
1456	0665	218	214	-1	333	155	344	176	202	-1	221	320	1635	302	185	159	-1
1457	0667	218	214	-1	333	155	344	176	202	-1	221	320	1636	302	182	266	-1
1458	0664	218	214	-1	333	155	344	176	202	-1	221	320	1637	302	173	362	-1
1459	0855	218	214	-1	333	155	344	176	202	-1	221	320	1638	302	180	300	-1
1501	457	218	214	-1	333	155	344	176	202	-1	221	320	1639	302	180	273	-1
1502	429	218	214	-1	333	155	344	176	202	-1	221	320	1640	302	173	299	-1
1503	414	218	214	-1	333	155	344	176	202	-1	221	320	1641	302	158	239	-1
1504	365	218	214	-1	333	155	344	176	202	-1	221	320	1642	302	145	233	-1
1505	388	218	214	-1	333	155	344	176	202	-1	221	320	1643	302	144	320	-1
1506	377	218	214	-1	333	155	344	176	202	-1	221	320	1644	302	154	314	-1
1507	405	218	214	-1	333	155	344	176	202	-1	221	320	1701	307	148	555	-1
1508	405	218	214	-1	333	155	344	176	202	-1	221	320	1702	307	147	147	-1
1509	405	218	214	-1	333	155	344	176	202	-1	221	320	1703	307	148	114	-1
1510	370	218	214	-1	333	155	344	176	202	-1	221	320	1704	307	147	111	-1
1511	363	218	214	-1	333	155	344	176	202	-1	221	320	1705	307	154	111	-1
1512	388	218	214	-1	333	155	344	176	202	-1	221	320	1706	307	147	111	-1
1513	376	218	214	-1	333	155	344	176	202	-1	221	320	1707	307	147	111	-1
1514	384	218	214	-1	333	155	344	176	202	-1	221	320	1708	307	154	111	-1
1515	392	218	214	-1	333	155	344	176	202	-1	221	320	1709	307	154	111	-1
1516	477	218	214	-1	333	155	344	176	202	-1	221	320	1710	307	154	111	-1
1517	371	218	214	-1	333	155	344	176	202	-1	221	320	1711	307	154	111	-1
1518	369	218	214	-1	333	155	344	176	202	-1	221	320	1712	307	154	111	-1
1519	335	218	214	-1	333	155	344	176	202	-1	221	320	1713	307	154	111	-1
1520	345	218	214	-1	333	155	344	176	202	-1	221	320	1714	307	154	111	-1
1521	317	218	214	-1	333	155	344	176	202	-1	221	320	1715	307	154	111	-1
1522	313	218	214	-1	333	155	344	176	202	-1	221	320	1716	307	154	111	-1
1523	163	218	214	-1	333	155	344	176	202	-1	221	320	1717	307	154	111	-1

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3220	1718	-.252	.136	.202	-.738	3220	1824	-.347	.168	.251	-1.240	3220	1921	-.334	.198	.290	-1.646
3220	1719	-.252	.141	.193	-.855	3220	1825	-.370	.202	.193	-1.931	3220	1922	-.408	.232	.357	-1.444
3220	1720	-.282	.131	.096	-.711	3220	1826	-.364	.190	178	-1.372	3220	1924	-.323	.184	.283	-1.207
3220	1721	-.280	.140	.107	-.768	3220	1827	-.334	.169	203	-1.030	3220	1925	-.330	.177	.209	-1.270
3220	1722	-.272	.136	.101	-.785	3220	1828	-.345	.172	139	-1.135	3220	1926	-.484	.185	.168	-1.446
3220	1723	-.255	.131	.147	-.654	3220	1829	-.351	.174	152	-1.183	3220	1927	-.367	.159	.174	-1.300
3220	1724	-.250	.132	.157	-.732	3220	1830	-.409	.219	096	-1.614	3220	1928	-.336	.182	.262	-1.464
3220	1725	-.275	.143	.266	-.887	3220	1831	-.387	.189	103	-1.275	3220	1929	-.346	.141	.127	-.934
3220	1726	-.294	.145	.172	-.993	3220	1832	-.382	.184	119	-1.231	3220	1930	-.540	.195	.028	-1.354
3220	1727	-.285	.148	.171	-.809	3220	1833	-.386	.186	118	-1.262	3220	2301	-.118	.164	.582	-.707
3220	1728	-.281	.146	.151	-.756	3220	1834	-.360	.176	183	-1.054	3220	2302	-.112	.159	.540	-.696
3220	1729	-.274	.148	.172	-.791	3220	1835	-.381	.212	256	-1.368	3220	2303	-.119	.172	.677	-.918
3220	1730	-.286	.217	.493	-1.018	3220	1836	-.313	.195	196	-1.363	3220	2304	-.043	.186	.857	-.725
3220	1731	-.305	.166	.128	-1.301	3220	1837	-.327	.138	183	-1.878	3220	2305	-.041	.195	.921	-.764
3220	1732	-.297	.158	.169	-1.016	3220	1838	-.355	.199	183	-1.484	3220	2306	-.049	.163	.793	-.563
3220	1733	-.292	.156	.149	-.950	3220	1839	-.344	.183	138	-1.791	3220	2307	-.095	.164	.811	-.662
3220	1734	-.298	.154	.164	-.877	3220	1840	-.213	.148	314	-1.899	3220	2308	-.003	.190	.926	-.624
3220	1735	-.333	.171	.107	-1.130	3220	1841	-.205	.144	267	-1.804	3220	2309	-.046	.190	.835	-.663
3220	1736	-.318	.204	.275	-1.955	3220	1842	-.255	.165	303	-1.017	3220	2310	-.015	.197	.958	-.662
3220	1737	-.287	.184	.243	-1.272	3220	1843	-.366	.192	211	-1.603	3220	2311	-.095	.131	.470	-.547
3220	1738	-.280	.173	.129	-1.227	3220	1844	-.326	.204	207	-1.659	3220	2312	-.128	.142	.595	-.694
3220	1739	-.263	.168	.149	-1.140	3220	1845	-.104	.135	317	-.932	3220	2313	-.128	.185	.649	-.869
3220	1740	-.235	.197	.252	-1.617	3220	1846	-.114	.132	379	-.736	3220	2314	-.090	.165	.700	-.755
3220	1741	-.289	.150	.339	-.763	3220	1847	-.146	.145	312	-.740	3220	2315	-.079	.124	.345	-.486
3220	1742	-.286	.203	.186	-.756	3220	1848	-.178	.159	285	-1.084	3220	2316	-.096	.130	.385	-.647
3220	1743	-.286	.193	.272	-1.071	3220	1849	-.178	.159	263	-1.041	3220	2317	-.078	.146	.533	-.770
3220	1744	-.263	.177	.279	-1.641	3220	1850	-.088	.107	373	-.456	3220	2318	-.053	.145	.520	-.591
3220	1801	-.287	.172	.285	-1.050	3220	1851	-.089	.123	282	-.522	3220	2319	-.108	.122	.394	-.501
3220	1802	-.300	.178	.286	-1.317	3220	1852	-.099	.125	282	-.588	3220	2320	-.067	.120	.404	-.469
3220	1803	-.317	.226	.125	-1.547	3220	1853	-.126	.139	276	-.967	3220	2321	-.067	.127	.393	-.442
3220	1804	-.426	.227	.236	-1.476	3220	1854	-.140	.142	275	-.913	3220	2322	-.065	.127	.409	-.506
3220	1805	-.314	.178	.182	-1.513	3220	1901	-.377	.256	384	-.455	3220	2401	-.071	.165	.554	-.200
3220	1806	-.317	.175	.202	-1.204	3220	1902	-.478	.189	087	-1.338	3220	2402	-.069	.146	.554	-.620
3220	1807	-.490	.199	.111	-1.519	3220	1903	-.315	.235	469	-1.260	3220	2403	-.090	.134	.347	-.550
3220	1808	-.339	.179	.231	-1.204	3220	1904	-.667	.243	073	-1.683	3220	2404	-.147	.135	.314	-.629
3220	1809	-.317	.173	.175	-1.157	3220	1905	-.286	.257	581	-1.419	3220	2405	-.093	.163	.719	-.1087
3220	1810	-.320	.166	.105	-1.271	3220	1906	-.516	.174	051	-1.085	3220	2406	-.086	.149	.599	-.820
3220	1811	-.475	.179	.018	-1.281	3220	1908	-.573	.201	096	-1.669	3220	2407	-.123	.143	.407	-.687
3220	1812	-.295	.160	.271	-1.004	3220	1909	-.528	.180	029	-1.363	3220	2408	-.106	.136	.368	-.644
3220	1813	-.356	.197	.253	-1.486	3220	1910	-.476	.257	207	-1.550	3220	2409	-.119	.122	.262	-.532
3220	1814	-.377	.204	.226	-1.468	3220	1911	-.317	.148	168	-.849	3220	2410	-.131	.145	.433	-.650
3220	1815	-.324	.167	.226	-1.203	3220	1912	-.332	.171	168	-.905	3220	2411	-.075	.132	.411	-.537
3220	1816	-.321	.160	.311	-1.119	3220	1913	-.371	.147	055	-.959	3220	2412	-.085	.129	.410	-.565
3220	1817	-.322	.171	.354	-1.365	3220	1914	-.500	.211	111	-1.453	3220	2413	-.084	.127	.333	-.543
3220	1818	-.340	.186	.310	-1.374	3220	1915	-.545	.233	113	-1.671	3220	2414	-.091	.125	.322	-.551
3220	1819	-.350	.193	.165	-1.389	3220	1916	-.230	.231	672	-1.094	3220	2415	-.080	.135	.345	-.634
3220	1820	-.355	.187	.215	-1.479	3220	1917	-.372	.158	187	-1.024	3220	2416	-.086	.137	.318	-.525
3220	1821	-.348	.160	.177	-1.122	3220	1918	-.414	.171	162	-1.100	3220	2417	-.135	.140	.329	-.649
3220	1822	-.326	.164	.228	-1.179	3220	1919	-.007	.363	432	-1.443	3220	2418	-.098	.128	.354	-.528
3220	1823	-.324	.163	.257	-1.203	3220	1920	-.383	.200	298	-1.553	3220	2419	-.101	.111	.244	-.509

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3220	2420	.085	.123	.299	.662	3220	2605	.136	.132	.417	.645	3220	2727	.088	.119	.394	.500
3220	2421	.063	.120	.315	.629	3220	2606	.128	.128	.378	.675	3220	2728	.095	.128	.347	.600
3220	2422	.075	.119	.293	.644	3220	2607	.153	.132	.386	.808	3220	2729	.065	.126	.372	.492
3220	2423	.084	.122	.258	.653	3220	2608	.125	.126	.388	.653	3220	2730	.094	.129	.365	.501
3220	2424	.089	.122	.264	.686	3220	2609	.136	.133	.382	.703	3220	2731	.071	.117	.437	.454
3220	2425	.075	.094	.231	.413	3220	2610	.095	.117	.350	.537	3220	2732	.077	.117	.432	.462
3220	2426	.067	.094	.235	.395	3220	2611	.104	.123	.344	.453	3220	2733	.045	.114	.454	.423
3220	2427	.093	.096	.210	.427	3220	2612	.101	.123	.346	.501	3220	2734	.076	.116	.444	.457
3220	2428	.063	.092	.231	.370	3220	2613	.084	.122	.374	.453	3220	2735	.085	.119	.344	.678
3220	2429	.056	.089	.246	.397	3220	2615	.098	.109	.377	.477	3220	2736	.100	.123	.334	.679
3220	2430	.053	.088	.248	.403	3220	2616	.082	.130	.394	.501	3220	2737	.049	.115	.334	.471
3220	2431	.086	.091	.230	.442	3220	2617	.090	.130	.395	.518	3220	2738	.076	.118	.334	.519
3220	2432	.054	.088	.252	.397	3220	2618	.084	.122	.344	.509	3220	2739	.076	.129	.336	.649
3220	2433	.046	.094	.286	.372	3220	2619	.086	.123	.340	.546	3220	2801	.188	.180	.477	.909
3220	2434	.046	.093	.281	.372	3220	2620	.102	.126	.290	.507	3220	2802	.138	.153	.501	.707
3220	2435	.080	.098	.294	.398	3220	2621	.091	.119	.286	.438	3220	2803	.225	.189	.522	.202
3220	2501	.172	.146	.295	.328	3220	2622	.085	.117	.287	.443	3220	2804	.291	.195	.566	.479
3220	2502	.174	.145	.296	.332	3220	2623	.070	.118	.287	.443	3220	2805	.162	.146	.322	.054
3220	2503	.157	.142	.293	.339	3220	2624	.094	.109	.286	.457	3220	2806	.171	.161	.478	.828
3220	2504	.136	.124	.222	.588	3220	2625	.083	.127	.286	.554	3220	2807	.202	.170	.310	.874
3220	2505	.164	.125	.191	.603	3220	2626	.087	.127	.288	.560	3220	2808	.282	.181	.335	.421
3220	2506	.137	.126	.223	.587	3220	2627	.053	.123	.286	.523	3220	2809	.260	.173	.328	.368
3220	2507	.142	.128	.284	.715	3220	2628	.080	.127	.286	.561	3220	2810	.088	.131	.333	.645
3220	2508	.133	.129	.322	.701	3220	2629	.075	.126	.322	.456	3220	2811	.096	.131	.344	.643
3220	2509	.161	.131	.322	.823	3220	2701	.173	.141	.326	.770	3220	2812	.107	.135	.322	.644
3220	2510	.129	.128	.324	.727	3220	2702	.141	.136	.344	.736	3220	2813	.139	.141	.277	.807
3220	2511	.094	.123	.320	.555	3220	2703	.160	.142	.324	.850	3220	2814	.145	.141	.288	.757
3220	2512	.108	.123	.324	.666	3220	2704	.149	.139	.281	.646	3220	2815	.108	.123	.277	.562
3220	2513	.120	.099	.328	.667	3220	2705	.202	.150	.311	.862	3220	2816	.103	.123	.280	.520
3220	2514	.119	.122	.328	.556	3220	2706	.133	.131	.329	.640	3220	2817	.089	.126	.277	.513
3220	2515	.099	.121	.315	.545	3220	2707	.158	.136	.316	.678	3220	2818	.126	.126	.251	.578
3220	2516	.116	.125	.344	.472	3220	2708	.103	.122	.287	.552	3220	2819	.154	.130	.349	.599
3220	2517	.115	.126	.317	.499	3220	2709	.135	.133	.319	.643	3220	2820	.098	.130	.333	.677
3220	2518	.096	.126	.326	.464	3220	2710	.162	.132	.285	.762	3220	2821	.062	.126	.333	.624
3220	2519	.109	.129	.319	.548	3220	2711	.159	.133	.316	.757	3220	2822	.092	.130	.333	.660
3220	2520	.113	.140	.286	.599	3220	2712	.190	.136	.290	.879	3220	2823	.094	.130	.338	.586
3220	2521	.084	.124	.272	.475	3220	2713	.137	.132	.261	.620	3220	2824	.107	.134	.338	.626
3220	2522	.101	.126	.256	.503	3220	2714	.123	.110	.190	.725	3220	2901	.092	.128	.436	.634
3220	2523	.109	.127	.318	.533	3220	2715	.108	.123	.253	.982	3220	2902	.076	.128	.428	.597
3220	2524	.099	.127	.323	.449	3220	2716	.133	.129	.237	.812	3220	2903	.094	.126	.322	.480
3220	2525	.074	.126	.330	.666	3220	2717	.109	.130	.314	.639	3220	2904	.078	.128	.356	.484
3220	2526	.092	.120	.338	.697	3220	2718	.120	.127	.406	.744	3220	2905	.052	.122	.352	.446
3220	2527	.087	.125	.316	.522	3220	2719	.071	.121	.350	.506	3220	2906	.092	.124	.322	.484
3220	2528	.088	.125	.307	.530	3220	2720	.086	.123	.348	.522	3220	2907	.086	.175	.303	.733
3220	2529	.054	.122	.307	.486	3220	2721	.096	.125	.283	.490	3220	2908	.078	.147	.405	.674
3220	2530	.079	.125	.319	.516	3220	2722	.104	.129	.275	.499	3220	2909	.156	.159	.477	.811
3220	2601	.173	.141	.260	.853	3220	2723	.090	.127	.277	.511	3220	2910	.127	.146	.406	.786
3220	2602	.140	.137	.286	.697	3220	2724	.104	.127	.269	.512	3220	2911	.297	.185	.159	.260
3220	2603	.150	.143	.382	.329	3220	2725	.076	.118	.410	.487	3220	2912	.154	.130	.248	.724
3220	2604	.149	.141	.378	.855	3220	2726	.095	.118	.392	.511	3220	2913	.298	.194	.204	.426



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
320	2914	-.082	.113	.313	-.618	330	1130	-.137	.243	.669	-.993	330	1214	.504	.254	1.343	-.226
320	2915	-.300	.218	.294	-.618	330	1131	-.073	.211	.816	-.790	330	1215	.211	.210	1.034	-.511
320	2916	-.283	.184	.319	-.037	330	1132	.151	.213	1.125	-.659	330	1216	.371	.158	1.018	-.013
320	2917	-.141	.124	.272	-.791	330	1133	-.058	.227	.761	-.785	330	1217	.493	.225	1.293	-.135
320	2918	-.178	.138	.308	-.752	330	1134	-.109	.312	.728	-.432	330	1218	.498	.225	1.386	-.162
320	2919	-.190	.174	.359	-.995	330	1135	-.211	.230	.710	-.047	330	1219	.440	.226	1.280	-.205
320	2920	-.245	.156	.301	-.995	330	1136	-.176	.244	.685	-.055	330	1220	.159	.203	1.291	-.408
320	2921	-.247	.169	.224	-.001	330	1137	-.035	.195	.649	-.222	330	1221	.292	.206	1.438	-.259
320	2922	-.348	.199	.171	-.296	330	1138	-.022	.219	.912	-.072	330	1222	.457	.230	1.650	-.211
320	2923	-.149	.135	.337	-.699	330	1139	-.055	.238	.777	-.125	330	1223	.476	.247	1.434	-.319
320	2924	-.153	.136	.382	-.733	330	1140	-.178	.285	.908	-.428	330	1224	.430	.250	1.347	-.315
320	2925	-.271	.192	.328	-.552	330	1141	-.199	.237	.674	-.201	330	1225	.055	.230	.924	-.606
320	2926	-.107	.133	.308	-.545	330	1142	-.188	.226	.575	-.1038	330	1226	.184	.219	1.039	-.415
320	2927	-.120	.134	.302	-.609	330	1143	-.091	.180	.602	-.1035	330	1227	.327	.224	1.256	-.282
320	2928	-.080	.131	.336	-.586	330	1144	-.035	.188	.782	-.975	330	1228	.382	.245	1.368	-.376
320	2930	-.094	.110	.286	-.431	330	1145	-.088	.197	.667	-.1096	330	1229	.344	.254	1.382	-.434
320	2931	-.071	.095	.275	-.411	330	1146	-.173	.227	.653	-.1163	330	1230	-.076	.212	.716	-.832
320	2932	-.071	.097	.260	-.427	330	1147	-.208	.194	.521	-.979	330	1231	.059	.169	.863	-.431
320	2933	-.066	.094	.217	-.399	330	1148	-.199	.174	.488	-.760	330	1232	.145	.170	.797	-.399
320	2934	-.100	.098	.308	-.429	330	1149	-.109	.153	.481	-.890	330	1233	.222	.197	.977	-.367
320	2935	-.062	.096	.235	-.402	330	1150	-.069	.156	.455	-.923	330	1234	.208	.217	1.147	-.398
330	1101	-.174	.166	.494	-.012	330	1151	-.110	.167	.540	-.989	330	1235	-.117	.152	.555	-.705
330	1102	-.114	.188	.617	-.115	330	1152	-.132	.162	.456	-.1143	330	1236	.048	.155	.773	-.716
330	1103	-.088	.204	.627	-.702	330	1153	-.162	.163	.484	-.947	330	1237	.014	.141	.578	-.496
330	1104	-.119	.217	.982	-.1087	330	1154	-.158	.152	.441	-.897	330	1238	.052	.156	.617	-.448
330	1105	-.243	.281	.837	-.310	330	1155	-.087	.121	.337	-.490	330	1239	.053	.188	.752	-.799
330	1106	-.141	.222	1.183	-.590	330	1156	-.077	.130	.461	-.540	330	1240	-.121	.154	.599	-.771
330	1107	-.187	.252	1.354	-.612	330	1157	-.085	.130	.472	-.524	330	1241	-.122	.130	.272	-.633
330	1108	-.015	.253	1.053	-.804	330	1158	-.096	.135	.478	-.590	330	1242	-.111	.130	.295	-.635
330	1109	-.028	.227	.869	-.648	330	1159	-.123	.142	.470	-.704	330	1243	-.110	.135	.504	-.887
330	1110	-.139	.196	.678	-.905	330	1160	-.137	.139	.298	-.945	330	1244	-.143	.158	.327	-.1202
330	1111	-.134	.237	.539	-.015	330	1161	-.050	.130	.437	-.518	330	1245	-.096	.143	.347	-.831
330	1112	-.124	.237	.541	-.077	330	1162	-.036	.129	.422	-.441	330	1246	-.089	.117	.394	-.471
330	1113	-.178	.226	.979	-.816	330	1163	-.108	.117	.237	-.508	330	1247	-.078	.135	.404	-.658
330	1114	-.248	.315	1.254	-.750	330	1164	-.093	.117	.378	-.470	330	1248	-.105	.136	.342	-.622
330	1115	-.119	.316	.989	-.908	330	1165	-.093	.117	.335	-.482	330	1249	-.117	.124	.305	-.627
330	1116	-.126	.211	.510	-.692	330	1166	-.074	.117	.376	-.443	330	1250	-.007	.120	.434	-.343
330	1117	-.096	.223	.642	-.942	330	1201	-.176	.249	1.296	-.579	330	1251	.004	.121	.379	-.407
330	1118	-.087	.212	.659	-.857	330	1202	-.268	.265	1.275	-.487	330	1252	.029	.125	.380	-.645
330	1119	-.141	.226	1.031	-.782	330	1203	-.352	.287	1.502	-.433	330	1253	-.035	.137	.586	-.507
330	1120	-.193	.257	1.110	-.799	330	1204	-.233	.285	1.355	-.575	330	1254	.049	.139	.656	-.394
330	1121	-.093	.288	.947	-.997	330	1205	-.167	.221	.863	-.489	330	1255	.099	.159	.704	-.370
330	1122	-.088	.323	1.020	-.174	330	1206	-.233	.229	.936	-.394	330	1256	.084	.156	.730	-.375
330	1123	-.194	.220	.607	-.018	330	1207	-.339	.222	1.069	-.279	330	1257	.023	.139	.522	-.430
330	1124	-.164	.217	.602	-.012	330	1208	-.358	.234	1.334	-.322	330	1258	.017	.147	.541	-.382
330	1125	-.141	.216	1.034	-.689	330	1209	-.296	.234	1.234	-.543	330	1259	-.015	.141	.828	-.459
330	1126	-.197	.242	1.127	-.678	330	1210	-.295	.233	1.103	-.408	330	1301	.120	.280	1.140	-.1063
330	1127	-.121	.267	.946	-.215	330	1211	-.428	.234	1.181	-.183	330	1302	.069	.237	.942	-.798
330	1128	-.040	.344	1.032	-.635	330	1212	-.575	.253	1.328	-.112	330	1303	-.111	.201	.702	-.941
330	1129	-.158	.246	.642	-.015	330	1213	-.552	.257	1.344	-.148	330	1304	.200	.208	1.089	-.374



## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	1335	.1335	.216	.826	-.531	3330	1356	-.059	.124	.309	-.500	3330	1446	-.149	.152	.412	-.727
3330	1336	.237	1.191	-.607	-.607	3330	1357	-.040	.124	.358	-.447	3330	1447	-.105	.138	.392	-.585
3330	1337	.198	1.261	-.681	-.681	3330	1358	-.044	.121	.360	-.469	3330	1448	-.117	.134	.390	-.576
3330	1338	.252	1.194	-.562	-.562	3330	1359	-.031	.115	.358	-.406	3330	1449	-.088	.135	.427	-.540
3330	1339	.258	1.321	-.746	-.746	3330	1360	-.037	.112	.319	-.396	3330	1450	-.118	.140	.332	-.667
3330	1340	.185	1.037	-.768	-.768	3330	1401	-.576	.238	.046	-1.517	3330	1451	-.147	.141	.285	-.678
3330	1341	.221	1.156	-.604	-.604	3330	1402	-.450	.204	.149	-1.203	3330	1452	-.102	.135	.305	-.638
3330	1342	.234	1.062	-.665	-.665	3330	1403	-.454	.252	.226	-1.738	3330	1453	-.107	.121	.307	-.548
3330	1343	.297	1.434	-.873	-.873	3330	1404	-.421	.221	.262	-1.691	3330	1454	-.100	.122	.318	-.548
3330	1344	.406	1.502	-.906	-.906	3330	1405	-.716	.303	.087	-2.358	3330	1455	-.078	.098	.289	-.404
3330	1345	.337	1.222	-.404	-.404	3330	1406	-.676	.272	.177	-1.951	3330	1456	-.085	.117	.403	-.594
3330	1346	.252	1.003	-.723	-.723	3330	1407	-.574	.256	.128	-1.706	3330	1457	-.081	.125	.322	-.461
3330	1347	.265	.977	-1.033	-1.033	3330	1408	-.438	.223	.245	-1.287	3330	1458	-.069	.122	.320	-.465
3330	1348	.265	1.101	-.713	-.713	3330	1409	-.365	.197	.337	-1.366	3330	1459	-.107	.125	.275	-.531
3330	1349	.392	1.091	-.421	-.421	3330	1410	-.686	.260	.047	-1.829	3330	1501	-.377	.185	.196	-.181
3330	1350	.229	.219	.939	.513	3330	1411	-.683	.274	.181	-1.889	3330	1502	-.366	.179	.198	-.181
3330	1351	.210	.263	1.258	.960	3330	1412	-.610	.192	.025	-1.650	3330	1503	-.406	.203	.213	-.425
3330	1352	.220	.288	-1.023	-1.023	3330	1413	-.357	.206	.146	-1.406	3330	1504	-.351	.202	.386	-.174
3330	1353	.302	.270	1.103	-.144	3330	1414	-.359	.190	.203	-1.358	3330	1505	-.338	.218	.378	-.368
3330	1354	.359	.222	1.144	-.373	3330	1415	-.658	.243	.017	-1.766	3330	1506	-.332	.164	.292	-.996
3330	1355	.182	.178	.875	.482	3330	1416	-.669	.250	.084	-1.883	3330	1507	-.332	.157	.289	-.950
3330	1356	.182	.266	1.047	.584	3330	1417	-.628	.263	.122	-1.727	3330	1508	-.359	.157	.250	-.943
3330	1357	.201	.293	1.095	.628	3330	1418	-.466	.225	.410	-1.328	3330	1509	-.384	.155	.160	-.897
3330	1358	.255	.240	.972	.812	3330	1419	-.386	.209	.229	-1.455	3330	1510	-.359	.191	.312	-.090
3330	1359	.251	.216	1.028	.621	3330	1420	-.602	.234	.015	-1.697	3330	1511	-.389	.198	.189	-.324
3330	1360	.084	.192	.878	.959	3330	1421	-.620	.241	.032	-1.848	3330	1512	-.417	.221	.193	-.588
3330	1361	.136	.241	.999	.616	3330	1422	-.601	.311	.413	-2.065	3330	1513	-.337	.161	.247	-.637
3330	1362	.172	.241	.999	.831	3330	1423	-.622	.281	.390	-1.800	3330	1514	-.331	.154	.207	-.893
3330	1363	.185	.214	.923	.767	3330	1424	-.468	.308	.323	-2.139	3330	1515	-.338	.155	.188	-.921
3330	1364	.192	.199	.898	.528	3330	1425	-.722	.262	.044	-2.036	3330	1516	-.338	.122	.308	-.876
3330	1365	.064	.198	.767	.695	3330	1426	-.697	.257	.380	-2.153	3330	1517	-.338	.176	.201	-.046
3330	1366	.127	.213	1.018	.539	3330	1427	-.465	.288	.507	-1.832	3330	1518	-.379	.184	.091	-.277
3330	1367	.175	.218	1.158	.523	3330	1428	-.615	.265	.291	-1.488	3330	1519	-.375	.172	.234	-.101
3330	1368	.156	.208	1.292	.393	3330	1429	-.471	.276	.396	-1.980	3330	1520	-.386	.174	.239	-.039
3330	1369	.185	.202	1.210	.417	3330	1430	-.741	.274	.117	-2.302	3330	1521	-.382	.174	.146	-.165
3330	1370	.070	.194	.828	.564	3330	1431	-.731	.285	.144	-2.569	3330	1522	-.328	.174	.141	-.123
3330	1371	.080	.126	.428	.610	3330	1432	-.550	.285	.288	-1.597	3330	1523	-.334	.177	.155	-.066
3330	1372	.066	.142	.555	.646	3330	1433	-.443	.246	.228	-1.737	3330	1524	-.359	.197	.128	-.346
3330	1373	.010	.146	.583	.531	3330	1434	-.427	.241	.360	-1.616	3330	1525	-.375	.209	.245	-.146
3330	1374	.044	.145	.512	.662	3330	1435	-.669	.283	.218	-2.075	3330	1526	-.357	.171	.134	-.128
3330	1375	.027	.109	.233	.548	3330	1436	-.643	.244	.185	-1.642	3330	1527	-.359	.168	.189	-.104
3330	1376	.089	.102	.251	.491	3330	1437	-.413	.245	.332	-1.564	3330	1528	-.333	.165	.103	-.063
3330	1377	.100	.098	.231	.473	3330	1438	-.337	.191	.389	-1.252	3330	1529	-.367	.172	.084	-.110
3330	1378	.095	.216	.434	.330	3330	1439	-.390	.184	.116	-1.475	3330	1530	-.418	.190	.108	-.418
3330	1379	.129	.212	.567	.567	3330	1440	-.460	.261	.248	-1.787	3330	1531	-.431	.214	.233	-.144
3330	1380	.081	.112	.286	.641	3330	1441	-.366	.250	.397	-1.473	3330	1532	-.417	.206	.250	-.139
3330	1381	.038	.099	.412	.393	3330	1442	-.184	.161	.260	-.818	3330	1533	-.423	.208	.210	-.146
3330	1382	.051	.094	.328	.378	3330	1443	-.242	.153	.217	-.838	3330	1534	-.424	.204	.179	-.164
3330	1383	.091	.098	.328	.480	3330	1444	-.265	.160	.208	-.966	3330	1535	-.395	.190	.118	-.034
3330	1384	.135	.143	.488	.538	3330	1445	-.174	.153	.321	-.929	3330	1536	-.401	.201	.186	-.128

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	1537	-421	220	109	-2.015	330	1625	-378	183	149	-1.152	330	1731	-364	174	110	-1.192
330	1538	-411	211	142	-1.382	330	1626	-373	180	140	-1.411	330	1732	-363	184	183	-1.613
330	1539	-434	210	111	-1.470	330	1627	-345	160	137	-1.920	330	1733	-339	181	235	-1.700
330	1540	-471	211	159	-1.419	330	1628	-332	154	171	-1.871	330	1734	-369	184	246	-1.762
330	1541	-438	211	339	-1.445	330	1629	-341	163	158	-1.190	330	1735	-368	180	267	-1.077
330	1542	-447	226	432	-1.589	330	1630	-444	213	192	-1.707	330	1736	-406	223	120	-1.578
330	1543	-432	201	080	-1.786	330	1631	-407	198	172	-1.214	330	1737	-352	150	150	-1.460
330	1544	-472	202	215	-1.563	330	1632	-373	169	143	-1.043	330	1738	-369	180	180	-1.636
330	1545	-480	206	078	-1.365	330	1633	-350	166	200	-1.941	330	1739	-340	202	194	-1.438
330	1546	-456	225	244	-1.491	330	1634	-392	177	117	-1.191	330	1740	-346	209	209	-1.598
330	1547	-350	206	622	-1.130	330	1635	-389	207	180	-1.379	330	1741	-256	164	552	-1.937
330	1548	-354	215	593	-1.404	330	1636	-411	208	172	-1.540	330	1742	-349	206	156	-1.293
330	1549	-358	194	150	-1.269	330	1637	-362	199	279	-1.357	330	1743	-320	219	322	-1.770
330	1550	-394	238	184	-1.649	330	1638	-338	180	179	-1.360	330	1744	-285	170	238	-1.162
330	1551	-398	267	437	-1.687	330	1639	-334	182	135	-1.229	330	1801	-267	165	286	-1.133
330	1552	-233	204	616	-1.099	330	1640	-270	173	218	-1.269	330	1802	-275	178	290	-1.354
330	1553	-106	171	773	-1.766	330	1641	-245	155	219	-1.929	330	1803	-346	181	181	-1.258
330	1554	-096	131	287	-1.521	330	1642	-229	153	264	-1.909	330	1804	-411	212	136	-1.574
330	1555	-096	132	318	-1.892	330	1643	-189	156	356	-1.723	330	1805	-288	175	267	-1.163
330	1556	-142	137	260	-1.015	330	1644	-204	147	546	-1.744	330	1806	-286	169	253	-1.254
330	1557	-092	141	964	-1.577	330	1701	-272	157	238	-1.115	330	1807	-337	176	228	-1.451
330	1558	-144	130	278	-1.972	330	1702	-276	154	174	-1.948	330	1808	-298	170	229	-1.241
330	1559	-106	126	301	-1.795	330	1703	-280	154	188	-1.882	330	1809	-276	153	228	-1.341
330	1560	-100	127	353	-1.546	330	1704	-286	157	216	-1.985	330	1810	-302	165	201	-1.366
330	1561	-039	123	389	-1.482	330	1705	-284	150	154	-1.813	330	1811	-342	160	148	-1.024
330	1562	-080	123	296	-1.483	330	1706	-253	148	249	-1.833	330	1812	-383	145	133	-1.005
330	1601	-353	181	245	-1.034	330	1707	-257	148	265	-1.838	330	1813	-283	169	315	-1.086
330	1602	-380	173	195	-1.130	330	1708	-302	152	241	-1.883	330	1814	-283	169	327	-1.143
330	1603	-318	169	204	-1.187	330	1709	-298	157	195	-1.841	330	1815	-328	169	200	-1.518
330	1604	-285	155	219	-1.000	330	1710	-268	156	213	-1.820	330	1816	-321	153	190	-1.268
330	1605	-293	156	173	-1.073	330	1711	-284	152	146	-1.464	330	1817	-307	153	182	-1.142
330	1606	-280	154	217	-1.957	330	1712	-312	151	102	-1.880	330	1818	-311	157	179	-1.164
330	1607	-291	153	197	-1.021	330	1713	-272	148	142	-1.835	330	1819	-310	161	167	-1.040
330	1608	-269	151	163	-1.801	330	1714	-319	148	114	-1.799	330	1820	-403	178	252	-1.450
330	1609	-291	155	151	-1.860	330	1715	-290	154	200	-1.811	330	1821	-391	157	198	-1.187
330	1610	-322	149	175	-1.156	330	1716	-300	146	160	-1.933	330	1822	-362	158	204	-1.071
330	1611	-356	140	113	-1.030	330	1717	-285	144	185	-1.824	330	1823	-334	149	096	-1.934
330	1612	-297	138	175	-1.853	330	1718	-286	145	175	-1.756	330	1824	-338	143	115	-1.954
330	1613	-290	150	180	-1.789	330	1719	-265	140	159	-1.756	330	1825	-420	215	096	-1.835
330	1614	-303	154	168	-1.853	330	1720	-310	135	191	-1.795	330	1826	-417	200	110	-1.459
330	1615	-372	161	139	-1.043	330	1721	-323	144	180	-1.944	330	1827	-386	177	081	-1.362
330	1616	-345	154	144	-1.066	330	1722	-317	142	167	-1.975	330	1828	-387	177	089	-1.873
330	1617	-309	147	150	-1.976	330	1723	-313	144	184	-1.876	330	1829	-381	177	077	-1.664
330	1618	-318	149	155	-1.019	330	1724	-304	145	178	-1.916	330	1830	-418	233	420	-1.936
330	1619	-316	150	145	-1.844	330	1725	-318	147	177	-1.869	330	1831	-446	233	221	-1.919
330	1620	-382	166	124	-1.060	330	1726	-344	166	131	-1.560	330	1832	-443	222	259	-1.571
330	1621	-363	160	118	-1.907	330	1727	-326	168	177	-1.181	330	1833	-436	208	255	-1.429
330	1622	-347	153	111	-1.903	330	1728	-315	162	202	-1.888	330	1834	-384	188	200	-1.465
330	1623	-329	148	175	-1.919	330	1729	-306	162	196	-1.875	330	1835	-366	210	349	-2.008
330	1624	-339	146	169	-1.757	330	1730	-318	237	482	-1.180	330	1836	-380	245	367	-1.635

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRAHT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	1837	411	178	007	-1.089	330	2305	102	184	624	-1.000	330	2433	053	692	252	371
330	1838	441	241	146	-1.858	330	2306	079	156	823	-0.623	330	2434	052	691	246	376
330	1839	389	211	179	-1.453	330	2307	120	174	611	-0.732	330	2435	089	695	216	428
330	1840	255	182	205	-1.322	330	2308	042	185	947	-0.791	330	2501	193	146	223	071
330	1841	248	175	182	-1.192	330	2309	102	189	835	-0.924	330	2502	162	136	216	680
330	1842	302	194	182	-1.292	330	2310	069	196	912	-1.382	330	2503	153	137	233	716
330	1843	363	198	156	-1.296	330	2311	112	124	328	-0.541	330	2504	150	133	275	582
330	1844	397	200	136	-1.461	330	2312	148	138	000	-0.871	330	2505	188	136	244	623
330	1845	126	130	287	-0.795	330	2313	165	189	522	-0.871	330	2506	152	134	271	594
330	1846	137	128	264	-0.754	330	2314	106	162	523	-0.860	330	2507	177	144	352	811
330	1847	172	141	239	-0.881	330	2315	095	142	481	-0.506	330	2508	169	143	341	788
330	1848	213	163	238	-1.241	330	2316	116	141	345	-0.714	330	2509	208	148	294	873
330	1849	218	164	255	-1.460	330	2317	104	156	592	-0.682	330	2510	170	145	311	746
330	1850	097	114	320	-0.489	330	2318	083	154	567	-0.682	330	2511	120	131	317	542
330	1851	091	110	277	-0.437	330	2319	129	132	341	-0.682	330	2512	137	133	267	559
330	1852	099	112	290	-0.532	330	2320	087	129	365	-0.630	330	2513	128	098	185	454
330	1853	133	129	295	-0.883	330	2321	092	134	408	-0.632	330	2514	137	129	230	613
330	1854	150	135	239	-1.149	330	2322	085	142	540	-0.523	330	2515	104	125	259	515
330	1901	301	334	336	-1.040	330	2401	114	161	629	-0.760	330	2516	115	133	330	564
330	1902	457	201	134	-1.365	330	2402	129	158	700	-0.701	330	2517	112	133	358	547
330	1903	147	207	515	-1.167	330	2403	130	144	700	-0.643	330	2518	094	131	364	516
330	1904	625	257	1119	-1.790	330	2404	188	144	247	-0.704	330	2519	107	134	347	545
330	1905	129	235	605	-1.157	330	2405	121	168	552	-0.855	330	2520	109	140	313	632
330	1906	470	194	130	-1.239	330	2406	111	149	487	-0.836	330	2521	090	119	394	540
330	1908	528	216	169	-1.580	330	2407	153	144	358	-0.735	330	2522	104	119	378	557
330	1909	453	178	187	-1.122	330	2408	125	137	886	-0.639	330	2523	097	129	394	527
330	1910	326	260	404	-1.450	330	2409	138	131	299	-0.546	330	2524	089	129	417	494
330	1911	327	172	194	-1.277	330	2410	154	143	341	-0.748	330	2525	070	127	438	488
330	1912	138	211	753	-0.752	330	2411	101	133	394	-0.531	330	2526	075	112	398	532
330	1913	352	171	133	-1.006	330	2412	115	127	270	-0.517	330	2527	081	123	343	471
330	1914	435	198	263	-1.275	330	2413	117	133	887	-0.585	330	2528	079	121	344	460
330	1915	527	239	163	-1.667	330	2414	122	132	290	-0.576	330	2529	073	120	338	454
330	1916	026	246	923	-0.923	330	2415	103	149	481	-0.640	330	2530	072	120	331	453
330	1917	373	170	137	-1.401	330	2416	105	148	400	-0.641	330	2601	183	138	227	742
330	1918	366	191	254	-1.145	330	2417	130	151	431	-0.694	330	2602	143	133	274	695
330	1919	173	286	272	-1.190	330	2418	100	138	440	-0.540	330	2603	165	138	216	802
330	1920	418	212	375	-1.763	330	2419	107	116	344	-0.530	330	2604	164	138	212	741
330	1921	341	200	279	-1.703	330	2420	097	133	468	-0.525	330	2605	165	139	293	667
330	1922	426	246	369	-2.036	330	2421	078	132	492	-0.513	330	2606	157	136	305	659
330	1924	317	193	390	-1.162	330	2422	088	132	478	-0.520	330	2607	191	141	291	801
330	1925	305	184	250	-1.273	330	2423	098	120	377	-0.570	330	2608	158	135	293	698
330	1926	378	190	142	-1.163	330	2424	099	120	378	-0.561	330	2609	157	139	256	640
330	1927	320	161	142	-1.092	330	2425	073	094	335	-0.399	330	2610	106	122	265	531
330	1928	330	182	176	-1.090	330	2426	065	094	333	-0.393	330	2611	121	140	316	650
330	1929	286	153	221	-0.951	330	2427	093	096	400	-0.437	330	2612	117	138	327	568
330	1930	504	207	103	-1.293	330	2428	064	094	245	-0.388	330	2613	098	138	337	530
330	2301	148	154	743	-0.679	330	2429	067	091	215	-0.437	330	2615	093	114	280	535
330	2302	134	151	764	-0.662	330	2430	060	094	669	-0.424	330	2616	098	129	332	574
330	2303	144	166	544	-0.984	330	2431	094	096	776	-0.466	330	2617	105	129	335	547
330	2304	087	175	637	-0.988	330	2432	060	093	418	-0.421	330	2618	106	125	284	550

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	2619	-.109	.126	.267	-.567	3330	2801	-.205	.176	.489	-.919	3330	2927	-.133	.119	.294	-.589
3330	2620	-.097	.131	.367	-.633	3330	2802	-.182	.185	.494	-.952	3330	2928	-.120	.119	.290	-.584
3330	2621	-.107	.122	.286	-.588	3330	2803	-.249	.184	.523	-1.436	3330	2930	-.083	.118	.369	-.521
3330	2622	-.099	.120	.284	-.534	3330	2804	-.327	.190	.291	-1.259	3330	2931	-.085	.091	.225	-.416
3330	2623	-.086	.118	.280	-.577	3330	2805	-.189	.159	.327	-1.128	3330	2932	-.070	.097	.284	-.371
3330	2624	-.089	.112	.281	-.531	3330	2806	-.209	.169	.607	-1.129	3330	2933	-.076	.092	.247	-.390
3330	2625	-.078	.123	.316	-.574	3330	2807	-.242	.180	.329	-1.267	3330	2934	-.106	.096	.227	-.431
3330	2626	-.077	.122	.324	-.532	3330	2808	-.349	.189	.206	-1.415	3330	2935	-.067	.097	.248	-.359
3330	2627	-.071	.122	.328	-.490	3330	2809	-.320	.183	.211	-1.361	340	1101	-.187	.150	.355	-.877
3330	2628	-.073	.122	.350	-.489	3330	2810	-.108	.137	.332	-.719	340	1102	-.083	.175	.553	-.791
3330	2629	-.082	.122	.372	-.561	3330	2811	-.113	.136	.318	-.689	340	1103	.005	.221	.733	-.733
3330	2701	-.201	.142	.171	-.682	3330	2812	-.121	.156	.407	-.758	340	1104	.004	.242	1.092	-.726
3330	2702	-.164	.137	.216	-.687	3330	2813	-.154	.160	.380	-.914	340	1105	-.021	.289	1.090	-1.106
3330	2703	-.190	.143	.259	-.886	3330	2814	-.164	.159	.332	-.849	340	1106	.118	.192	.842	-.537
3330	2704	-.172	.132	.297	-.595	3330	2815	-.125	.135	.304	-.621	340	1107	.199	.216	1.012	-.477
3330	2705	-.238	.152	.315	-.865	3330	2816	-.115	.132	.309	-.616	340	1108	.131	.228	.886	-.839
3330	2706	-.160	.141	.236	-.719	3330	2817	-.098	.131	.317	-.580	340	1109	.104	.237	.832	-.533
3330	2707	-.194	.146	.229	-.733	3330	2818	-.141	.135	.309	-.781	340	1110	-.020	.207	.758	-.829
3330	2708	-.114	.121	.296	-.588	3330	2819	-.181	.137	.300	-.889	340	1111	.020	.204	.821	-.655
3330	2709	-.175	.147	.249	-.771	3330	2820	-.114	.120	.288	-.605	340	1112	.030	.203	.830	-.656
3330	2710	-.193	.147	.281	-.753	3330	2821	-.100	.117	.286	-.581	340	1113	.183	.204	.885	-.626
3330	2711	-.187	.149	.301	-.786	3330	2822	-.093	.116	.313	-.561	340	1114	.443	.215	1.749	-.537
3330	2712	-.227	.153	.276	-.818	3330	2823	-.105	.109	.262	-.473	340	1115	.300	.284	1.333	-.588
3330	2713	-.151	.131	.276	-.668	3330	2824	-.114	.112	.231	-.560	340	1116	.114	.210	.724	-.689
3330	2714	-.171	.125	.166	-1.126	3330	2901	-.114	.112	.272	-.471	340	1117	.060	.226	1.078	-.651
3330	2715	-.116	.126	.282	-.636	3330	2902	-.083	.107	.277	-.451	340	1118	.036	.213	1.323	-.742
3330	2716	-.144	.132	.281	-.655	3330	2903	-.092	.119	.313	-.543	340	1119	.222	.208	1.078	-.897
3330	2717	-.143	.144	.347	-.819	3330	2904	-.080	.121	.319	-.541	340	1120	.300	.236	1.175	-.731
3330	2718	-.164	.141	.284	-.777	3330	2905	-.076	.120	.335	-.528	340	1121	.261	.249	1.167	-.759
3330	2719	-.096	.127	.264	-.646	3330	2906	-.085	.118	.316	-.534	340	1122	.197	.301	1.236	-.664
3330	2720	-.112	.129	.349	-.575	3330	2907	-.110	.149	.573	-.620	340	1123	.029	.239	.970	-.656
3330	2721	-.144	.150	.307	-.747	3330	2908	-.091	.130	.415	-.697	340	1124	.053	.234	.980	-.630
3330	2722	-.162	.158	.313	-.959	3330	2909	-.190	.146	.371	-.788	340	1125	.233	.198	.986	-.708
3330	2723	-.149	.154	.319	-.605	3330	2910	-.160	.133	.313	-.677	340	1126	.324	.211	1.069	-.630
3330	2724	-.162	.155	.306	-.044	3330	2911	-.319	.174	.182	-.291	340	1127	.243	.230	1.124	-.897
3330	2725	-.081	.120	.337	-.558	3330	2912	-.168	.132	.252	-.780	340	1128	.187	.200	1.252	-.995
3330	2726	-.119	.122	.312	-.561	3330	2913	-.334	.189	.204	-1.336	340	1129	.038	.276	1.338	-.786
3330	2727	-.102	.125	.339	-.669	3330	2914	-.073	.115	.286	-.501	340	1130	.057	.266	1.263	-.757
3330	2728	-.103	.125	.348	-.617	3330	2915	-.360	.211	.246	-1.644	340	1131	.156	.187	.809	-.646
3330	2729	-.105	.127	.355	-.697	3330	2916	-.288	.186	.241	-1.516	340	1132	.221	.224	1.281	-.645
3330	2730	-.070	.120	.320	-.519	3330	2917	-.123	.116	.255	-.558	340	1133	.173	.225	1.108	-.779
3330	2731	-.067	.119	.312	-.506	3330	2918	-.205	.138	.212	-.741	340	1134	.154	.298	1.164	-1.080
3330	2732	-.068	.119	.309	-.542	3330	2919	-.243	.176	.285	-.266	340	1135	.039	.276	1.564	-.864
3330	2733	-.070	.120	.305	-.525	3330	2920	-.293	.168	.209	-1.117	340	1136	.024	.232	.961	-.819
3330	2734	-.100	.121	.241	-.664	3330	2921	-.295	.185	.186	-1.492	340	1137	.054	.180	.723	-.751
3330	2735	-.109	.124	.244	-.691	3330	2922	-.416	.228	.440	-.664	340	1138	.148	.192	.999	-.776
3330	2736	-.079	.119	.265	-.503	3330	2923	-.175	.133	.253	-.704	340	1139	.119	.187	.814	-1.202
3330	2737	-.077	.118	.265	-.508	3330	2924	-.312	.135	.253	-.680	340	1140	.107	.243	.925	-1.083
3330	2738	-.088	.120	.355	-.523	3330	2925	-.128	.210	.367	-1.607	340	1141	.025	.247	1.046	-.937
3330	2739	-.088	.120	.355	-.523	3330	2926	-.128	.116	.311	-.545	340	1142	.029	.233	1.035	-.879



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	1143	036	172	589	330	340	1227	367	224	1581	208	340	1318	136	321	1094	-1.083
340	1144	055	185	821	663	340	1228	324	233	1333	293	340	1319	309	265	1088	-1.925
340	1145	022	184	743	781	340	1229	244	244	1317	419	340	1320	228	206	1167	-1.694
340	1146	009	222	888	884	340	1230	133	246	1284	627	340	1321	049	276	1167	-1.867
340	1147	004	216	828	557	340	1231	173	222	1001	475	340	1322	040	299	1060	-1.889
340	1148	018	231	753	666	340	1232	169	190	1044	305	340	1323	143	330	1179	-1.001
340	1149	073	152	560	651	340	1233	121	191	1027	413	340	1324	262	268	1243	-1.974
340	1150	009	157	619	615	340	1234	075	245	1457	767	340	1325	200	207	1002	-1.814
340	1151	041	151	584	735	340	1235	043	207	1011	532	340	1326	029	285	1131	-1.980
340	1152	063	153	546	792	340	1236	064	193	1020	455	340	1327	026	310	1168	-1.001
340	1153	093	154	513	717	340	1237	051	178	771	546	340	1328	119	295	1119	-1.903
340	1154	109	147	455	647	340	1238	003	158	711	614	340	1329	200	247	1148	-1.917
340	1155	105	133	284	641	340	1239	062	176	739	809	340	1330	063	215	856	-1.881
340	1156	095	131	475	484	340	1240	050	164	885	653	340	1331	087	269	1121	-1.042
340	1157	110	128	434	555	340	1241	030	155	518	610	340	1332	084	278	915	-1.168
340	1158	120	131	371	555	340	1242	041	147	450	596	340	1333	003	268	927	-1.142
340	1159	144	136	427	666	340	1243	085	136	348	588	340	1334	071	228	841	-1.119
340	1160	152	150	366	913	340	1244	129	154	346	685	340	1335	015	212	770	-1.930
340	1161	013	144	546	420	340	1245	107	139	454	706	340	1336	192	205	824	-1.864
340	1162	025	147	587	430	340	1246	091	132	422	589	340	1337	190	242	916	-1.030
340	1163	120	120	297	646	340	1247	069	134	580	555	340	1338	156	260	912	-1.320
340	1164	108	121	347	483	340	1248	077	131	485	523	340	1339	037	214	934	-1.783
340	1165	112	124	322	508	340	1249	104	132	408	616	340	1340	082	185	603	-1.823
340	1166	095	122	356	478	340	1250	000	128	551	513	340	1341	206	127	297	-1.728
340	1201	181	300	1	470	340	1251	001	131	573	501	340	1342	250	155	376	-1.020
340	1202	225	298	1	499	340	1252	013	133	535	830	340	1344	139	161	623	-1.089
340	1203	211	292	1	471	340	1253	003	151	512	648	340	1345	147	154	536	-1.069
340	1204	118	281	1	533	340	1254	019	143	482	456	340	1346	168	132	223	-1.064
340	1205	271	226	1	657	340	1255	080	160	937	432	340	1347	137	124	243	-1.006
340	1206	290	251	1	192	340	1256	070	158	961	429	340	1348	117	123	292	-1.577
340	1207	259	247	1	644	340	1257	037	141	617	417	340	1349	100	121	386	-1.550
340	1208	312	220	1	105	340	1258	026	164	977	558	340	1350	130	126	407	-1.539
340	1209	250	238	1	229	340	1259	008	150	699	434	340	1351	078	125	307	-1.584
340	1210	351	221	1	166	340	1301	092	293	953	499	340	1352	024	120	451	-1.522
340	1211	439	225	1	437	340	1302	154	213	577	903	340	1353	039	108	338	-1.441
340	1212	516	243	1	811	340	1303	284	196	296	1005	340	1354	056	111	347	-1.391
340	1213	506	239	1	440	340	1304	006	223	684	866	340	1355	078	190	560	-1.513
340	1214	408	241	1	298	340	1305	003	209	918	956	340	1356	070	131	459	-1.515
340	1215	363	238	1	376	340	1306	108	214	759	829	340	1357	047	141	487	-1.490
340	1216	499	186	1	089	340	1307	115	256	934	892	340	1358	059	133	387	-1.886
340	1217	533	221	1	379	340	1308	011	269	101	716	340	1359	045	129	584	-1.522
340	1218	477	215	1	333	340	1309	194	286	11	872	340	1360	048	127	580	-1.507
340	1219	384	217	1	457	340	1310	184	257	11	687	340	1401	546	220	058	-1.490
340	1220	296	255	1	380	340	1311	065	228	808	736	340	1402	471	190	109	-1.271
340	1221	391	252	1	433	340	1312	033	227	1	776	340	1403	458	213	114	-1.483
340	1222	483	245	1	72	340	1313	045	291	1	979	340	1404	426	193	223	-1.348
340	1223	433	231	1	430	340	1314	128	358	1	866	340	1405	583	248	162	-2.143
340	1224	342	243	1	124	340	1315	297	269	1	773	340	1406	561	236	170	-1.905
340	1225	218	235	1	316	340	1316	035	249	1	848	340	1407	517	221	151	-1.526
340	1226	303	230	1	534	340	1317	017	277	1	957	340	1408	432	198	169	-1.299

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	1409	453	215	271	296	340	1459	114	135	284	696	340	1550	390	220	212	892
40	1410	589	218	098	491	340	1501	386	164	102	994	340	1550	360	223	542	003
40	1411	605	222	100	457	340	1502	383	166	081	073	340	1550	282	195	882	362
40	1412	329	174	052	404	340	1503	393	189	122	328	340	1550	168	163	610	706
40	1413	440	205	209	422	340	1504	407	203	157	275	340	1550	122	137	279	615
40	1414	436	209	193	402	340	1505	428	212	142	414	340	1550	126	136	291	605
40	1415	491	187	026	499	340	1506	374	170	175	230	340	1550	136	141	415	622
40	1416	497	190	035	634	340	1507	364	163	145	143	340	1550	138	147	274	670
40	1417	508	201	092	505	340	1508	388	167	131	361	340	1550	136	124	254	534
40	1418	463	200	180	514	340	1509	388	177	007	191	340	1550	139	124	259	489
40	1419	432	215	140	578	340	1510	425	191	101	230	340	1550	121	128	346	511
40	1420	477	195	104	621	340	1511	423	195	135	643	340	1550	066	125	371	456
40	1421	486	197	103	434	340	1512	454	217	130	833	340	1550	093	126	299	601
40	1422	505	199	144	896	340	1513	372	164	106	026	340	1601	353	174	146	189
40	1423	485	212	323	683	340	1514	360	155	120	921	340	1602	395	175	117	266
40	1424	512	255	305	213	340	1515	367	156	133	034	340	1603	336	166	151	137
40	1425	566	230	033	977	340	1516	470	088	246	763	340	1604	330	162	151	056
40	1426	556	240	095	003	340	1517	431	174	072	252	340	1605	349	166	118	047
40	1427	531	235	148	003	340	1518	425	175	033	217	340	1606	345	162	138	145
40	1428	481	237	430	763	340	1519	425	161	103	037	340	1607	370	150	095	34
40	1429	499	262	370	633	340	1520	388	163	097	137	340	1608	325	162	141	473
40	1430	686	263	028	740	340	1521	388	165	152	026	340	1609	335	166	150	516
40	1431	669	262	096	029	340	1522	393	164	104	946	340	1610	366	155	146	996
40	1432	578	246	119	848	340	1523	410	174	109	082	340	1611	417	159	106	980
40	1433	509	241	131	529	340	1524	447	192	109	606	340	1612	345	148	084	855
40	1434	499	267	280	898	340	1525	398	169	123	020	340	1613	324	152	189	888
40	1435	674	269	038	195	340	1526	365	163	183	938	340	1614	338	156	175	045
40	1436	633	217	105	650	340	1527	369	161	146	975	340	1615	337	144	048	30
40	1437	473	240	276	476	340	1528	380	162	114	087	340	1616	307	139	092	71
40	1438	420	220	215	421	340	1529	401	168	082	044	340	1617	275	135	140	810
40	1439	431	200	105	484	340	1530	390	177	153	125	340	1618	288	136	141	67
40	1440	459	221	157	506	340	1531	410	185	225	184	340	1619	316	155	176	402
40	1441	422	238	290	487	340	1532	395	178	226	114	340	1620	356	164	152	077
40	1442	285	185	264	105	340	1533	404	176	162	195	340	1621	346	159	153	005
40	1443	272	171	241	933	340	1534	405	173	138	155	340	1622	327	153	174	65
40	1444	298	179	225	336	340	1535	411	173	167	114	340	1623	299	150	204	86
40	1445	207	156	250	951	340	1536	416	178	164	307	340	1624	316	141	136	16
40	1446	232	161	201	558	340	1537	456	227	284	707	340	1625	399	165	087	64
40	1447	185	143	248	822	340	1538	438	209	255	311	340	1626	382	163	104	090
40	1448	159	134	239	696	340	1539	447	202	125	271	340	1627	370	156	088	34
40	1449	155	137	276	864	340	1540	441	186	072	583	340	1628	362	158	174	04
40	1450	141	134	376	639	340	1541	437	176	095	179	340	1629	376	169	182	59
40	1451	138	132	369	603	340	1542	431	189	078	361	340	1630	415	178	086	38
40	1452	130	129	335	539	340	1543	469	219	141	785	340	1631	415	173	184	38
40	1453	147	129	276	526	340	1544	466	211	130	375	340	1632	389	174	057	82
40	1454	154	132	64	599	340	1545	473	218	217	519	340	1633	382	177	082	77
40	1455	126	110	215	099	340	1546	451	202	158	446	340	1634	393	185	082	26
40	1456	131	145	289	617	340	1547	388	186	421	151	340	1635	399	204	129	35
40	1457	120	131	273	719	340	1548	368	193	372	241	340	1636	383	197	119	35
40	1458	113	133	282	684	340	1549	364	199	153	306	340	1637	367	184	222	166



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	1744	195	244	-1.327	340	1744	195	244	-1.327	340	1850	1850	1850	124	124	357	-474
340	1801	199	215	-1.306	340	1801	199	215	-1.306	340	1851	1851	1851	132	132	377	-554
340	1802	191	316	-1.284	340	1802	191	316	-1.284	340	1852	1852	1852	137	137	397	-764
340	1803	183	268	-1.101	340	1803	183	268	-1.101	340	1853	1853	1853	190	190	363	-1.467
340	1804	157	199	-1.028	340	1804	157	199	-1.028	340	1854	1854	1854	196	196	351	-1.903
340	1805	160	354	-1.913	340	1805	160	354	-1.913	340	1901	1901	1901	312	312	913	-1.432
340	1806	162	298	-1.128	340	1806	162	298	-1.128	340	1902	1902	1902	187	187	092	-1.259
340	1807	157	132	-1.178	340	1807	157	132	-1.178	340	1903	1903	1903	171	171	541	-1.579
340	1808	163	201	-1.032	340	1808	163	201	-1.032	340	1904	1904	1904	531	531	089	-1.570
340	1809	166	089	-1.963	340	1809	166	089	-1.963	340	1905	1905	1905	206	206	737	-915
340	1810	155	176	-1.417	340	1810	155	176	-1.417	340	1906	1906	1906	532	532	077	-1.183
340	1811	153	104	-1.182	340	1811	153	104	-1.182	340	1908	1908	1908	561	561	126	-1.490
340	1812	152	090	-1.112	340	1812	152	090	-1.112	340	1909	1909	1909	480	480	159	-1.325
340	1813	159	016	-1.130	340	1813	159	016	-1.130	340	1910	1910	1910	126	126	494	-1.044
340	1814	151	186	-1.939	340	1814	151	186	-1.939	340	1911	1911	1911	348	348	262	-857
340	1815	158	127	-1.102	340	1815	158	127	-1.102	340	1912	1912	1912	019	019	992	-660
340	1816	162	089	-1.142	340	1816	162	089	-1.142	340	1913	1913	1913	390	390	086	-1.210
340	1817	149	146	-1.988	340	1817	149	146	-1.988	340	1914	1914	1914	401	401	188	-1.170
340	1818	161	170	-1.978	340	1818	161	170	-1.978	340	1915	1915	1915	488	488	166	-1.316
340	1819	151	101	-1.928	340	1819	151	101	-1.928	340	1916	1916	1916	255	255	137	-1.740
340	1820	168	187	-2.165	340	1820	168	187	-2.165	340	1917	1917	1917	421	421	187	-1.408
340	1821	158	188	-1.308	340	1821	158	188	-1.308	340	1918	1918	1918	433	433	181	-1.147
340	1822	160	239	-1.563	340	1822	160	239	-1.563	340	1919	1919	1919	372	372	405	-1.397
340	1823	154	176	-1.802	340	1823	154	176	-1.802	340	1920	1920	1920	462	462	072	-2.275
340	1824	148	085	-1.866	340	1824	148	085	-1.866	340	1921	1921	1921	397	397	263	-1.679
340	1825	146	143	-1.871	340	1825	146	143	-1.871	340	1922	1922	1922	527	527	211	-1.779
340	1826	146	125	-1.974	340	1826	146	125	-1.974	340	1924	1924	1924	415	415	191	-1.431
340	1827	147	110	-1.835	340	1827	147	110	-1.835	340	1925	1925	1925	352	352	246	-1.596
340	1828	147	179	-1.792	340	1828	147	179	-1.792	340	1926	1926	1926	473	473	194	-1.240
340	1829	151	170	-1.012	340	1829	151	170	-1.012	340	1927	1927	1927	362	362	165	-1.363
340	1830	186	184	-1.508	340	1830	186	184	-1.508	340	1928	1928	1928	381	381	220	-1.414
340	1831	152	143	-1.928	340	1831	152	143	-1.928	340	1929	1929	1929	351	351	127	-1.984
340	1832	147	126	-1.862	340	1832	147	126	-1.862	340	1930	1930	1930	300	300	104	-1.430
340	1833	149	136	-1.102	340	1833	149	136	-1.102	340	2301	2301	2301	279	279	165	-1.914
340	1834	221	457	-1.277	340	1834	221	457	-1.277	340	2302	2302	2302	281	281	161	-1.881
340	1835	196	072	-1.372	340	1835	196	072	-1.372	340	2303	2303	2303	208	208	507	-1.969
340	1836	168	100	-1.024	340	1836	168	100	-1.024	340	2304	2304	2304	219	219	842	-897
340	1837	169	129	-1.085	340	1837	169	129	-1.085	340	2305	2305	2305	234	234	680	-1.149
340	1838	181	142	-1.068	340	1838	181	142	-1.068	340	2306	2306	2306	255	255	681	-1.797
340	1839	236	180	-1.750	340	1839	236	180	-1.750	340	2307	2307	2307	173	173	393	-1.900
340	1840	214	189	-1.341	340	1840	214	189	-1.341	340	2308	2308	2308	162	162	761	-891
340	1841	212	178	-1.725	340	1841	212	178	-1.725	340	2309	2309	2309	236	236	590	-1.211
340	1842	205	228	-1.632	340	1842	205	228	-1.632	340	2310	2310	2310	198	198	612	-1.362
340	1843	227	306	-1.673	340	1843	227	306	-1.673	340	2311	2311	2311	174	174	424	-1.245
340	1844	181	287	-1.237	340	1844	181	287	-1.237	340	2312	2312	2312	223	223	595	-1.909
340	1845	232	207	-1.779	340	1845	232	207	-1.779	340	2313	2313	2313	235	235	373	-1.206
340	1846	207	207	-1.292	340	1846	207	207	-1.292	340	2314	2314	2314	111	111	338	-1.015
340	1847	202	202	-1.779	340	1847	202	202	-1.779	340	2315	2315	2315	122	122	338	-1.600
340	1848	207	207	-1.292	340	1848	207	207	-1.292	340	2316	2316	2316	114	114	412	-1.715
340	1849	207	207	-1.292	340	1849	207	207	-1.292	340	2317	2317	2317	114	114	554	-1.599

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	2318	102	151	517	693	340	2511	133	118	223	670	340	2703	316	149	144	022
340	2319	136	127	350	498	340	2512	149	120	207	667	340	2704	273	176	226	996
340	2320	107	126	333	469	340	2513	175	113	185	597	340	2705	366	160	152	077
340	2321	109	128	333	481	340	2514	163	133	294	631	340	2706	257	146	148	872
340	2322	122	138	333	601	340	2515	130	130	296	560	340	2707	302	151	130	851
340	2401	199	174	669	893	340	2516	120	122	306	575	340	2708	182	147	255	851
340	2402	206	184	669	999	340	2517	117	121	398	567	340	2709	280	156	183	118
340	2403	211	165	669	999	340	2518	106	120	398	598	340	2710	330	160	080	070
340	2404	285	164	669	999	340	2519	112	122	398	598	340	2711	320	164	130	494
340	2405	191	162	669	844	340	2520	116	130	398	598	340	2712	371	170	111	601
340	2406	183	147	669	844	340	2521	098	130	398	598	340	2713	223	158	276	998
340	2407	233	144	669	844	340	2522	108	129	398	598	340	2714	333	230	233	326
340	2408	199	136	669	844	340	2523	107	124	398	598	340	2715	145	141	233	775
340	2409	228	141	669	844	340	2524	097	124	398	598	340	2716	172	141	233	326
340	2410	261	142	669	844	340	2525	082	121	398	598	340	2717	181	158	233	805
340	2411	103	144	669	600	340	2526	104	141	398	598	340	2718	208	168	233	973
340	2412	118	139	669	563	340	2527	102	131	398	598	340	2719	123	136	233	657
340	2413	124	120	669	563	340	2528	098	130	398	598	340	2720	130	133	233	665
340	2414	129	118	669	563	340	2529	083	129	398	598	340	2721	146	144	233	993
340	2415	110	144	669	563	340	2530	085	130	398	598	340	2722	169	144	233	153
340	2416	099	139	669	563	340	2600	302	152	398	598	340	2723	156	146	300	847
340	2417	127	140	669	563	340	2601	252	145	398	598	340	2724	160	145	300	552
340	2418	105	128	669	563	340	2602	277	144	398	598	340	2725	096	128	289	508
340	2419	110	126	669	563	340	2603	281	147	398	598	340	2726	098	128	347	502
340	2420	097	128	669	563	340	2604	253	139	398	598	340	2727	127	136	304	600
340	2421	085	127	669	563	340	2605	243	136	398	598	340	2728	163	140	210	655
340	2422	090	126	669	563	340	2606	286	141	398	598	340	2729	161	133	210	646
340	2423	087	127	669	563	340	2607	246	133	398	598	340	2730	162	133	210	693
340	2424	091	127	669	563	340	2608	247	140	398	598	340	2731	079	126	222	486
340	2425	109	102	669	563	340	2609	247	140	398	598	340	2732	083	124	222	486
340	2426	096	101	669	563	340	2610	127	126	398	598	340	2733	083	124	222	496
340	2427	113	103	669	563	340	2611	119	126	398	598	340	2734	095	128	222	592
340	2428	090	098	669	563	340	2612	114	123	398	598	340	2735	152	140	222	764
340	2429	069	101	669	563	340	2613	105	124	398	598	340	2736	181	158	222	678
340	2430	053	100	669	563	340	2614	120	116	398	598	340	2737	100	127	222	553
340	2431	089	104	669	563	340	2615	116	123	398	598	340	2738	100	126	222	585
340	2432	056	099	669	563	340	2616	117	124	398	598	340	2739	108	130	222	585
340	2433	056	094	669	563	340	2617	110	125	398	598	340	2801	300	205	276	425
340	2434	059	093	669	563	340	2618	116	128	398	598	340	2802	186	187	276	049
340	2435	104	098	669	563	340	2619	109	125	398	598	340	2803	404	229	276	668
340	2501	311	175	669	488	340	2620	104	128	398	598	340	2804	500	224	276	701
340	2502	272	146	669	428	340	2621	095	126	398	598	340	2805	318	177	276	996
340	2503	260	148	669	428	340	2622	091	124	398	598	340	2806	308	197	276	207
340	2504	241	142	669	428	340	2623	097	114	398	598	340	2807	337	212	276	228
340	2505	287	146	669	428	340	2624	094	134	398	598	340	2808	495	233	276	443
340	2506	244	144	669	428	340	2625	086	129	398	598	340	2809	472	217	276	694
340	2507	253	135	669	428	340	2626	094	133	398	598	340	2810	138	143	276	768
340	2508	239	133	669	428	340	2627	086	129	398	598	340	2811	130	138	276	772
340	2509	285	137	669	428	340	2628	091	128	398	598	340	2812	123	148	276	665
340	2510	236	132	669	428	340	2629	100	124	398	598	340	2813	157	161	276	065

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
440	2814	180	159	341	977	350	1106	035	186	1087	697	350	1156	078	142	362	566
440	2815	150	144	366	738	350	1107	141	206	1403	557	350	1157	102	140	341	570
440	2816	132	141	383	696	350	1108	099	203	1391	505	350	1158	112	142	349	592
440	2817	112	142	419	758	350	1109	235	203	1064	402	350	1159	131	146	418	637
440	2818	147	149	332	807	350	1110	141	251	1267	736	350	1160	151	142	355	827
440	2819	202	152	373	053	350	1111	157	226	1065	712	350	1161	002	142	668	400
440	2820	137	132	261	652	350	1112	167	219	1029	728	350	1162	043	146	687	407
440	2821	113	128	262	587	350	1113	087	204	990	513	350	1163	100	122	300	538
440	2822	100	128	268	511	350	1114	329	278	1646	385	350	1164	105	136	466	92
440	2823	140	138	350	691	350	1115	286	244	1291	362	350	1165	098	137	449	624
440	2824	184	146	269	922	350	1116	358	156	771	023	350	1166	087	137	479	73
440	2825	144	129	227	549	350	1117	239	253	1259	557	350	1201	290	310	444	493
440	2826	144	131	267	538	350	1118	241	236	1010	544	350	1202	319	301	469	476
440	2827	122	134	369	637	350	1119	304	196	1148	301	350	1203	200	281	377	73
440	2828	144	140	398	635	350	1120	403	214	1388	355	350	1204	032	250	595	743
440	2829	108	133	416	624	350	1121	39	210	1329	568	350	1205	235	231	169	497
440	2830	119	133	400	626	350	1122	366	244	207	475	350	1206	241	232	239	464
440	2831	194	166	485	019	350	1123	277	277	257	634	350	1207	175	213	094	436
440	2832	169	146	423	741	350	1124	225	255	148	526	350	1208	193	205	188	36
440	2833	294	163	306	181	350	1125	449	186	995	454	350	1209	061	205	869	63
440	2834	263	152	207	084	350	1126	351	194	156	412	350	1210	490	244	366	217
440	2835	470	205	110	299	350	1127	305	172	1024	474	350	1211	536	232	361	150
440	2836	281	153	160	392	350	1128	344	210	112	812	350	1212	552	238	566	159
440	2837	492	215	113	562	350	1129	201	225	1192	759	350	1213	349	224	419	354
440	2838	110	125	264	657	350	1130	220	210	133	606	350	1214	216	215	218	457
440	2839	541	255	177	958	350	1131	201	184	915	386	350	1215	460	250	389	336
440	2840	389	192	115	246	350	1132	330	202	1140	368	350	1216	574	215	278	067
440	2841	162	133	427	641	350	1133	294	191	898	480	350	1217	605	241	499	128
440	2842	337	160	161	178	350	1134	332	243	1021	233	350	1218	436	220	443	194
440	2843	399	203	171	533	350	1135	286	259	045	037	350	1219	288	213	268	304
440	2844	408	182	186	354	350	1136	210	265	920	469	350	1220	485	232	336	185
440	2845	418	191	150	356	350	1137	111	162	685	593	350	1221	564	233	449	116
440	2846	545	237	153	971	350	1138	225	171	843	412	350	1222	544	227	368	134
440	2847	292	152	107	825	350	1139	187	162	787	451	350	1223	333	208	247	284
440	2848	298	153	128	204	350	1140	237	184	822	615	350	1224	245	215	170	531
440	2849	448	251	264	559	350	1141	148	210	797	581	350	1225	388	221	176	279
440	2850	166	159	361	829	350	1142	152	200	777	555	350	1226	427	226	196	199
440	2851	179	163	355	829	350	1143	018	165	865	533	350	1227	428	222	324	236
440	2852	156	158	361	786	350	1144	126	173	935	492	350	1228	303	214	077	291
440	2853	071	128	529	436	350	1145	095	162	828	484	350	1229	138	208	096	622
440	2854	129	106	249	501	350	1146	137	180	826	758	350	1230	281	226	168	514
440	2855	087	129	537	419	350	1147	069	189	817	699	350	1231	335	233	111	400
440	2856	087	101	244	453	350	1148	062	170	896	605	350	1232	337	220	245	223
440	2857	084	109	297	449	350	1149	069	147	546	519	350	1233	127	176	762	461
440	2858	063	119	424	508	350	1150	011	147	607	378	350	1234	044	190	883	621
550	1101	233	155	503	805	350	1151	019	137	491	434	350	1235	154	196	055	488
550	1102	110	161	574	745	350	1152	012	155	471	626	350	1236	147	197	024	546
550	1103	105	195	1045	587	350	1153	058	166	545	621	350	1237	166	194	147	386
550	1104	172	260	166	654	350	1154	076	157	491	756	350	1238	030	166	664	501
550	1105	197	280	270	710	350	1155	104	137	478	639	350	1239	120	165	746	991

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3350	1240	016	159	676	533	3350	13331	299	234	732	290	3350	14222	394	184	187	325
3350	1241	008	150	783	522	3350	13332	312	236	754	518	3350	14223	399	192	458	458
3350	1242	009	143	653	559	3350	13333	212	298	693	540	3350	14224	425	217	470	468
3350	1243	052	129	480	462	3350	13334	026	252	726	413	3350	14225	450	213	143	366
3350	1244	122	136	3344	393	3350	13335	039	235	961	895	3350	14226	470	208	223	229
3350	1245	112	150	3374	399	3350	13336	316	151	330	902	3350	14227	455	211	151	520
3350	1246	077	131	391	344	3350	13337	347	171	325	009	3350	14228	459	216	167	413
3350	1247	068	149	475	399	3350	13338	333	235	618	419	3350	14229	467	235	169	562
3350	1248	068	149	633	399	3350	13339	134	220	558	064	3350	14300	545	245	130	919
3350	1249	097	132	431	370	3350	13440	109	195	681	333	3350	14331	530	244	162	134
3350	1250	055	147	386	362	3350	13441	240	135	147	840	3350	14332	512	230	189	325
3350	1251	056	149	375	369	3350	13442	297	154	205	027	3350	14333	485	233	326	338
3350	1252	056	144	384	309	3350	13443	172	174	600	881	3350	14334	501	255	224	060
3350	1253	048	149	435	344	3350	13444	156	176	596	899	3350	14335	550	229	251	783
3350	1254	044	147	666	377	3350	13445	191	147	344	183	3350	14336	540	187	025	833
3350	1255	003	139	439	423	3350	13446	141	140	325	733	3350	14337	492	213	181	412
3350	1256	001	137	440	414	3350	13447	087	124	461	698	3350	14338	464	218	358	762
3350	1257	010	138	487	521	3350	13448	057	115	421	548	3350	14339	458	222	225	178
3350	1258	010	136	633	555	3350	13449	097	116	364	586	3350	14440	481	218	125	629
3350	1259	043	142	477	584	3350	13501	075	104	313	475	3350	14441	416	201	161	150
3350	1300	384	310	468	777	3350	13502	048	112	330	403	3350	14442	347	182	205	098
3350	1301	384	310	468	777	3350	13503	043	104	304	355	3350	14443	322	176	182	074
3350	1302	322	212	487	88	3350	13504	068	108	267	477	3350	14444	327	179	345	151
3350	1303	406	184	168	253	3350	13505	105	181	597	630	3350	14445	281	178	11	556
3350	1304	217	276	595	88	3350	13506	100	133	372	605	3350	14446	246	161	212	444
3350	1305	233	235	449	121	3350	13507	045	132	526	477	3350	14447	200	134	292	444
3350	1306	288	248	395	584	3350	13508	054	127	384	490	3350	14448	179	127	265	444
3350	1307	287	222	564	362	3350	13509	056	130	425	489	3350	14449	178	131	270	188
3350	1308	148	242	820	045	3350	13600	060	127	372	495	3350	14450	157	116	306	666
3350	1309	047	306	262	784	3350	14001	512	257	118	547	3350	14501	158	114	305	10
3350	1310	119	283	122	227	3350	14002	446	216	139	381	3350	14502	168	111	281	166
3350	1311	167	217	583	923	3350	14003	389	190	131	308	3350	14503	185	120	190	449
3350	1312	206	210	525	842	3350	14004	370	179	225	988	3350	14504	202	125	168	639
3350	1313	244	246	798	356	3350	14005	473	212	130	560	3350	14505	135	96	189	447
3350	1314	200	315	072	233	3350	14006	460	209	128	546	3350	14506	141	120	306	633
3350	1315	153	320	091	861	3350	14007	437	205	173	413	3350	14507	163	132	298	333
3350	1316	202	227	617	013	3350	14008	397	193	159	188	3350	14508	160	132	298	333
3350	1317	237	242	852	032	3350	14009	366	172	146	137	3350	14509	169	135	279	666
3350	1318	181	305	976	179	3350	14100	440	177	023	276	3350	15001	332	169	158	666
3350	1319	042	322	979	385	3350	14111	434	173	066	278	3350	15002	326	169	234	666
3350	1320	147	278	136	117	3350	14112	406	134	041	005	3350	15003	405	170	150	222
3350	1321	158	248	772	116	3350	14113	374	176	142	329	3350	15004	427	185	154	330
3350	1322	192	256	833	140	3350	14114	377	183	092	401	3350	15005	451	193	149	466
3350	1323	119	347	979	195	3350	14115	409	204	156	399	3350	15006	317	150	166	740
3350	1324	047	323	383	194	3350	14116	410	200	152	463	3350	15007	306	147	173	440
3350	1325	093	254	216	918	3350	14117	395	196	189	404	3350	15008	318	147	163	145
3350	1326	227	233	861	176	3350	14118	386	192	173	308	3350	15009	472	150	072	308
3350	1327	245	247	973	208	3350	14119	367	165	172	058	3350	15100	449	182	127	568
3350	1328	128	293	761	189	3350	14200	408	180	149	129	3350	15111	446	182	046	303
3350	1329	038	279	949	223	3350	14201	397	178	128	144	3350	15112	468	195	035	433
3350	1330	024	255	042	106	3350	14202	397	178	128	144	3350	15112	468	195	035	433



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3550	1513	340	157	188	-1.929	3550	1601	435	181	122	-1.288	3550	1707	440	172	126	-1.323
3550	1514	345	155	176	-1.021	3550	1602	475	173	073	-1.319	3550	1708	460	172	060	-1.314
3550	1515	347	156	165	-1.249	3550	1603	437	174	229	-1.201	3550	1709	464	180	138	-1.417
3550	1516	312	095	044	-1.508	3550	1604	437	166	014	-1.191	3550	1710	467	186	134	-1.568
3550	1517	456	167	080	-1.013	3550	1605	360	166	128	-1.135	3550	1711	475	212	118	-2.013
3550	1518	423	177	121	-1.408	3550	1606	358	162	133	-1.136	3550	1712	509	190	022	-1.674
3550	1519	333	164	153	-1.940	3550	1607	337	166	117	-1.251	3550	1713	456	189	107	-1.436
3550	1520	333	164	134	-1.954	3550	1608	322	147	128	-1.847	3550	1714	366	178	185	-1.033
3550	1521	333	162	185	-1.901	3550	1609	346	152	147	-1.925	3550	1715	427	175	226	-1.341
3550	1522	351	161	316	-1.886	3550	1610	439	151	070	-1.983	3550	1716	356	181	338	-1.633
3550	1523	370	170	256	-1.053	3550	1611	455	141	030	-1.997	3550	1717	350	169	244	-1.166
3550	1524	395	184	202	-1.141	3550	1612	442	149	027	-1.996	3550	1718	336	182	145	-1.069
3550	1525	399	165	395	-1.971	3550	1613	333	162	253	-1.053	3550	1719	330	166	242	-1.077
3550	1526	335	171	148	-1.159	3550	1614	320	167	255	-1.068	3550	1720	423	156	196	-1.989
3550	1527	339	170	148	-1.168	3550	1615	324	167	148	-1.037	3550	1721	407	192	231	-1.782
3550	1528	358	173	123	-1.937	3550	1616	111	157	162	-1.881	3550	1722	399	183	192	-1.405
3550	1529	365	175	157	-1.975	3550	1617	327	159	147	-1.855	3550	1723	355	160	221	-1.046
3550	1530	363	159	169	-1.916	3550	1618	306	165	166	-1.012	3550	1724	337	156	217	-1.004
3550	1531	333	166	105	-1.022	3550	1619	320	153	203	-1.894	3550	1725	324	164	216	-1.125
3550	1532	333	161	112	-1.995	3550	1620	338	157	220	-1.871	3550	1726	415	198	212	-1.794
3550	1533	333	162	104	-1.014	3550	1621	338	156	243	-1.816	3550	1727	333	170	081	-1.198
3550	1534	333	158	097	-1.021	3550	1622	317	151	269	-1.060	3550	1728	375	166	135	-1.091
3550	1535	333	164	099	-1.074	3550	1623	323	149	141	-1.867	3550	1729	374	167	161	-1.153
3550	1536	356	166	088	-1.290	3550	1624	360	167	244	-1.051	3550	1730	332	227	410	-1.096
3550	1537	419	205	188	-2.081	3550	1625	499	159	101	-1.027	3550	1731	417	169	019	-1.478
3550	1538	400	188	192	-1.129	3550	1626	344	159	103	-1.934	3550	1732	399	174	239	-1.383
3550	1539	402	180	157	-1.270	3550	1627	366	159	156	-1.983	3550	1733	386	168	234	-1.152
3550	1540	386	187	154	-1.158	3550	1628	361	166	229	-1.960	3550	1734	382	159	225	-1.121
3550	1541	372	184	158	-1.112	3550	1629	311	177	265	-1.111	3550	1735	389	168	084	-1.059
3550	1542	400	191	126	-1.127	3550	1630	366	185	114	-1.221	3550	1736	464	233	164	-1.715
3550	1543	440	220	158	-2.175	3550	1631	333	153	122	-1.910	3550	1737	435	214	101	-1.614
3550	1544	415	198	129	-1.320	3550	1632	388	145	093	-1.027	3550	1738	433	203	225	-1.637
3550	1545	415	196	120	-1.335	3550	1633	339	151	025	-1.966	3550	1739	420	196	091	-1.537
3550	1546	384	184	093	-1.197	3550	1634	394	156	013	-1.082	3550	1740	395	213	227	-1.661
3550	1547	384	172	146	-1.001	3550	1635	382	190	187	-1.161	3550	1741	307	184	329	-1.190
3550	1548	338	175	132	-1.060	3550	1636	382	180	190	-1.175	3550	1742	445	210	283	-1.576
3550	1549	375	201	138	-2.489	3550	1637	388	188	176	-1.074	3550	1743	451	207	176	-1.536
3550	1550	380	187	136	-1.210	3550	1638	390	193	140	-1.365	3550	1744	420	213	201	-1.831
3550	1551	373	186	404	-2.265	3550	1639	404	201	168	-1.436	3550	1801	454	190	220	-1.471
3550	1552	321	170	259	-1.099	3550	1640	388	181	308	-1.078	3550	1802	464	199	220	-1.572
3550	1553	323	154	315	-1.773	3550	1641	384	228	258	-1.036	3550	1803	479	202	142	-1.956
3550	1554	169	133	260	-1.612	3550	1642	256	166	209	-1.881	3550	1804	667	244	051	-1.981
3550	1555	175	133	245	-1.587	3550	1643	264	162	259	-1.971	3550	1805	495	222	103	-2.133
3550	1556	185	136	257	-1.631	3550	1644	285	166	318	-1.950	3550	1806	489	210	131	-1.757
3550	1557	215	147	405	-1.758	3550	1701	386	182	256	-1.516	3550	1807	505	217	157	-2.146
3550	1558	144	118	218	-1.530	3550	1702	345	188	149	-1.377	3550	1808	491	209	165	-2.223
3550	1559	144	117	233	-1.519	3550	1703	342	177	139	-1.223	3550	1809	445	190	138	-1.611
3550	1560	128	115	248	-1.520	3550	1704	363	192	071	-1.819	3550	1810	488	229	355	-1.847
3550	1561	07	114	292	-1.460	3550	1705	453	200	191	-1.687	3550	1811	483	202	316	-1.580
3550	1562	115	129	327	-1.522	3550	1706	442	173	096	-1.345	3550	1812	347	178	179	-1.211

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3550	1813	491	222	310	-2.147	3550	1910	137	195	509	-1.042	3550	2409	181	148	315	-1.008
3550	1814	492	218	129	-2.038	3550	1911	437	171	100	-967	3550	2410	202	160	593	-777
3550	1815	387	216	129	-1.833	3550	1912	226	234	118	-590	3550	2411	109	156	400	-767
3550	1816	380	197	135	-1.538	3550	1913	445	160	076	-1.023	3550	2412	143	147	360	-673
3550	1817	370	196	123	-1.437	3550	1914	405	201	351	-1.421	3550	2413	148	143	277	-786
3550	1818	362	186	122	-1.355	3550	1915	586	228	098	-1.368	3550	2414	155	140	230	-755
3550	1819	331	170	172	-1.147	3550	1916	402	230	169	-4.418	3550	2415	110	137	429	-628
3550	1820	414	215	396	-1.958	3550	1917	436	168	109	-1.017	3550	2416	098	137	385	-572
3550	1821	407	178	109	-1.263	3550	1918	419	194	226	-1.229	3550	2417	112	136	379	-667
3550	1822	378	178	236	-1.400	3550	1919	311	241	238	-1.495	3550	2418	116	129	292	-719
3550	1823	355	181	195	-1.257	3550	1920	501	194	085	-1.523	3550	2419	124	130	288	-659
3550	1824	351	180	197	-1.239	3550	1921	509	219	307	-1.478	3550	2420	091	133	355	-529
3550	1825	439	222	223	-2.090	3550	1922	621	246	080	-1.724	3550	2421	088	129	355	-532
3550	1826	427	197	281	-1.423	3550	1924	551	240	076	-2.181	3550	2422	078	128	355	-515
3550	1828	377	168	191	-1.622	3550	1925	466	206	115	-1.379	3550	2423	094	128	363	-544
3550	1829	364	157	156	-1.325	3550	1926	515	214	119	-1.461	3550	2424	101	127	367	-582
3550	1830	441	202	125	-1.233	3550	1927	392	199	243	-1.486	3550	2425	116	100	311	-539
3550	1831	451	208	196	-1.941	3550	1928	540	248	089	-2.849	3550	2426	101	100	296	-530
3550	1832	442	198	245	-1.461	3550	1929	348	162	150	-1.283	3550	2427	117	105	340	-556
3550	1833	440	186	147	-1.538	3550	1930	584	228	086	-1.448	3550	2428	104	099	320	-540
3550	1834	424	165	087	-1.256	3550	2301	314	169	456	-957	3550	2429	094	092	222	-445
3550	1835	475	240	117	-1.894	3550	2302	286	164	488	-861	3550	2430	072	092	263	-421
3550	1836	491	245	145	-1.724	3550	2303	277	163	606	-1.029	3550	2431	109	092	249	-423
3550	1837	503	172	083	-1.177	3550	2304	235	175	669	-981	3550	2432	077	091	213	-479
3550	1838	485	210	079	-1.649	3550	2305	267	193	628	-1.008	3550	2433	067	098	298	-412
3550	1839	493	193	006	-1.542	3550	2306	215	145	587	-629	3550	2434	064	099	330	-406
3550	1840	436	247	162	-1.883	3550	2307	263	154	260	-873	3550	2435	106	099	299	-454
3550	1841	434	238	155	-1.462	3550	2308	161	188	702	-839	3550	2436	011	165	264	-211
3550	1842	476	238	263	-1.641	3550	2309	267	193	582	-1.070	3550	2437	022	149	257	-757
3550	1843	483	218	109	-1.820	3550	2310	227	218	694	-1.452	3550	2438	033	150	290	-901
3550	1844	523	225	258	-1.963	3550	2311	274	147	212	-872	3550	2439	044	146	252	-907
3550	1845	190	207	433	-1.180	3550	2312	340	161	200	-1.084	3550	2440	055	152	207	-814
3550	1846	197	207	413	-1.277	3550	2313	339	189	333	-1.184	3550	2441	066	149	244	-934
3550	1847	277	253	318	-1.995	3550	2314	225	179	511	-1.451	3550	2442	077	141	286	-816
3550	1848	388	270	190	-2.302	3550	2315	162	129	849	-632	3550	2443	088	137	305	-626
3550	1849	399	265	241	-2.633	3550	2316	163	132	278	-746	3550	2444	099	143	244	-847
3550	1850	073	130	374	-5.587	3550	2317	159	145	430	-803	3550	2445	110	137	340	-1.070
3550	1851	102	136	402	-5.565	3550	2318	173	150	355	-518	3550	2446	112	142	331	-808
3550	1852	218	143	423	-7.955	3550	2319	151	123	272	-518	3550	2447	113	154	218	-937
3550	1853	215	399	399	-1.492	3550	2320	148	124	279	-518	3550	2448	114	111	146	-598
3550	1854	217	215	335	-1.614	3550	2321	153	129	291	-706	3550	2449	115	133	173	-793
3550	1903	214	251	671	-1.488	3550	2322	163	137	356	-602	3550	2450	116	135	222	-693
3550	1904	206	206	113	-1.533	3550	2401	188	178	685	-894	3550	2451	117	130	233	-711
3550	1905	332	307	443	-1.629	3550	2402	196	199	554	-1.204	3550	2452	117	132	232	-776
3550	1906	444	202	164	-1.312	3550	2403	175	172	458	-1.184	3550	2453	118	133	259	-796
3550	1907	117	207	552	-1.098	3550	2404	256	171	336	-1.660	3550	2454	119	137	248	-764
3550	1908	494	209	110	-1.534	3550	2405	140	183	725	-990	3550	2455	119	142	382	-616
3550	1909	496	217	345	-1.490	3550	2406	132	168	534	-901	3550	2456	125	129	291	-688
3550	1909	478	199	098	-1.208	3550	2407	189	164	575	-877	3550	2457	125	131	374	-715
3550	1909	478	199	098	-1.208	3550	2408	150	152	435	-822	3550	2458	117	135	391	-578



APPENDIX A -- PRESSURE DATA:

CONFIGURATION A) U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3550	22524	103	134	388	583	3550	27110	219	157	246	084	3550	2815	166	125	212	722
3550	22525	101	133	44	583	3550	27111	209	155	252	032	3550	2816	142	123	239	597
3550	22526	087	116	33	46	3550	27112	265	161	219	143	3550	2817	119	130	330	757
3550	22527	082	123	33	53	3550	27113	213	161	299	835	3550	2818	145	143	306	070
3550	22528	083	120	33	54	3550	27114	267	200	363	179	3550	2819	212	164	286	092
3550	22529	070	119	32	52	3550	27115	227	198	424	509	3550	2820	143	130	278	810
3550	22530	074	119	36	53	3550	27116	264	206	466	733	3550	2821	112	135	331	635
3550	22601	253	154	32	96	3550	27117	201	150	424	764	3550	2822	090	122	255	562
3550	22602	192	144	26	78	3550	27118	218	152	224	857	3550	2823	117	127	266	446
3550	22603	202	145	33	83	3550	27119	158	162	332	918	3550	2824	164	138	255	604
3550	22604	192	147	26	82	3550	27720	155	154	332	809	3550	2901	122	116	233	502
3550	22605	193	151	26	97	3550	27721	209	168	447	257	3550	2902	138	118	249	507
3550	22606	181	145	33	56	3550	27722	242	184	153	313	3550	2903	148	122	249	548
3550	22607	182	151	33	55	3550	27723	226	169	173	197	3550	2904	168	128	290	567
3550	22608	187	146	33	99	3550	27724	213	160	167	036	3550	2905	130	116	316	553
3550	22609	188	142	33	99	3550	27725	103	122	333	587	3550	2906	140	122	327	546
3550	22610	134	120	33	55	3550	27726	112	120	311	573	3550	2907	260	153	319	969
3550	22611	133	123	33	11	3550	27727	149	128	311	815	3550	2908	225	146	252	776
3550	22612	124	120	33	80	3550	27728	206	145	333	861	3550	2909	293	184	404	961
3550	22613	133	127	33	49	3550	27729	197	140	333	773	3550	2910	268	175	404	988
3550	22615	123	119	33	55	3550	27730	196	138	333	790	3550	2911	386	194	146	389
3550	22616	132	134	33	59	3550	27731	063	119	333	456	3550	2912	262	167	381	250
3550	22617	124	134	33	53	3550	27732	070	118	333	455	3550	2913	428	216	138	534
3550	22618	132	141	33	41	3550	27733	072	119	333	536	3550	2914	122	122	111	582
3550	22619	140	145	33	67	3550	27734	088	124	333	555	3550	2915	508	255	111	849
3550	22620	135	135	33	13	3550	27735	182	148	333	965	3550	2916	358	205	122	381
3550	22621	120	127	33	31	3550	27736	221	160	333	015	3550	2917	168	185	282	744
3550	22622	104	129	33	00	3550	27737	098	119	333	553	3550	2918	318	205	122	381
3550	22623	112	129	33	00	3550	27738	100	118	333	582	3550	2919	394	166	264	446
3550	22624	115	123	33	21	3550	27739	090	122	333	582	3550	2920	339	170	177	041
3550	22625	106	123	33	71	3550	2801	195	219	333	200	3550	2921	377	196	213	358
3550	22626	105	122	33	61	3550	2802	179	228	333	101	3550	2922	486	233	207	646
3550	22627	094	121	33	70	3550	2803	327	257	333	295	3550	2923	263	174	288	147
3550	22628	103	123	33	83	3550	2804	464	238	333	619	3550	2924	271	171	288	253
3550	22629	107	122	33	42	3550	2805	189	171	444	105	3550	2925	364	247	266	614
3550	22701	282	164	33	30	3550	2806	227	201	404	339	3550	2926	210	157	333	969
3550	22702	282	158	33	32	3550	2807	244	226	333	666	3550	2927	229	162	266	078
3550	22703	287	168	33	40	3550	2808	431	245	855	713	3550	2928	202	157	266	022
3550	22704	287	179	33	86	3550	2809	433	206	182	499	3550	2930	066	126	529	481
3550	22705	280	176	33	03	3550	2810	164	142	282	744	3550	2931	106	103	277	492
3550	22706	221	158	33	99	3550	2811	141	140	302	745	3550	2932	008	132	520	405
3550	22707	160	160	33	60	3550	2812	118	149	401	796	3550	2933	079	103	259	446
3550	22708	175	157	33	14	3550	2813	155	153	370	925	3550	2934	073	111	295	481
3550	2260	176	176	33	5	3550	2814	205	172	311	063	3550	2935	068	116	355	537

APPENDIX A -- PRESSURE DATA:

CONFIGURATION B; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1209	.228	.210	1.118	-.976	8	1419	-.268	.171	.402	-1.637	76	1430	-.392	.163	.181	-1.097
0	1220	.469	.262	1.378	-.700	8	1429	-.286	.171	.225	-1.086	76	1619	-.525	.265	.107	-2.346
0	1419	-.335	.170	.206	-1.215	8	1430	-.308	.181	.264	-1.189	76	1630	-.547	.250	.143	-2.357
0	1429	-.335	.178	.311	-1.134	8	1619	-.308	.167	.261	-1.154	76	1640	-.170	.180	.392	-.890
0	1430	-.339	.198	.249	-1.285	8	1630	-.275	.148	.353	-.804	76	1849	-.131	.151	1.002	-.545
0	1619	-.328	.172	.215	-1.154	8	1640	-.240	.152	.286	-.842	76	1922	-.373	.163	.130	-.954
0	1630	-.334	.162	.167	-1.067	8	1849	-.238	.207	.596	-1.625	76	1928	-.080	.181	.674	-1.048
0	1640	-.271	.160	.236	-1.940	8	1922	-.419	.281	.504	-2.088	76	2801	-.238	.196	1.139	-.418
0	1849	-.329	.250	.434	-1.869	8	1928	-.435	.287	.534	-2.387	78	1209	-.304	.148	.177	-.838
0	1922	-.451	.242	.610	-1.611	8	2801	-.105	.188	.571	-1.981	78	1220	-.327	.147	.125	-.963
0	1928	-.441	.251	.297	-2.579	10	1209	-.101	.281	.962	-1.061	78	1419	-.326	.132	.049	-.816
0	2801	-.119	.203	.598	-.949	10	1220	-.241	.311	1.444	-1.789	78	1429	-.370	.159	.096	-.932
2	1209	.188	.189	.841	-.711	10	1419	-.235	.156	.224	-1.427	78	1430	-.380	.161	.111	-1.013
2	1220	.384	.230	1.227	-.401	10	1429	-.253	.170	.252	-1.230	78	1619	-.433	.280	.110	-2.133
2	1419	-.287	.164	.127	-1.003	10	1430	-.271	.177	.302	-1.982	78	1630	-.546	.265	.101	-2.108
2	1429	-.383	.151	.124	-.911	10	1619	-.262	.165	.219	-1.026	78	1640	-.181	.181	.488	-.875
2	1430	-.383	.168	.127	-1.088	10	1630	-.230	.144	.242	-1.997	78	1849	-.150	.148	.647	-.485
2	1619	-.299	.157	.266	-.991	10	1640	-.199	.141	.249	-1.085	78	1922	-.402	.166	.027	-1.133
2	1630	-.299	.152	.175	-.974	10	1849	-.197	.195	.515	-1.369	78	1928	-.074	.187	.830	-.685
2	1640	-.232	.152	.232	-.766	10	1922	-.372	.290	.512	-1.954	78	2801	-.241	.194	1.136	-.349
2	1849	-.258	.215	.484	-1.912	10	1928	-.368	.282	.533	-2.528	80	1209	-.326	.160	.223	-1.169
2	1922	-.438	.241	.370	-1.860	10	2801	-.086	.164	.474	-1.824	80	1220	-.347	.158	.198	-1.042
2	1928	-.428	.245	.310	-1.838	72	1209	-.333	.154	.237	-1.225	80	1419	-.330	.146	.193	-.855
2	2801	-.109	.185	.747	-.916	72	1220	-.355	.155	.178	-1.291	80	1429	-.402	.170	.255	-1.177
4	1209	.190	.232	.952	-.668	72	1419	-.309	.151	.270	-1.850	80	1430	-.399	.169	.221	-1.030
4	1220	.405	.284	1.375	-.700	72	1429	-.356	.155	.088	-.938	80	1619	-.649	.363	.171	-2.296
4	1419	-.282	.166	.222	-.966	72	1430	-.411	.163	.101	-1.012	80	1630	-.578	.258	.194	-1.883
4	1429	-.294	.173	.223	-1.108	72	1619	-.446	.249	.136	-1.954	80	1640	-.160	.193	.457	-.945
4	1430	-.328	.188	.211	-1.108	72	1630	-.514	.236	.071	-1.673	80	1849	-.156	.165	.918	-.428
4	1619	-.294	.159	.252	-.945	72	1640	-.224	.181	.335	-.964	80	1922	-.401	.167	.176	-.918
4	1630	-.288	.153	.306	-.884	72	1849	-.120	.161	.777	-.505	80	1928	-.084	.202	.558	-.902
4	1640	-.288	.149	.303	-.858	72	1922	-.367	.168	.291	-1.032	80	2801	-.249	.179	1.031	-.257
4	1849	-.255	.203	.415	-1.668	72	1928	-.104	.202	.727	-.944	86	1209	-.286	.150	.190	-.949
4	1922	-.451	.266	.363	-2.284	72	2801	-.324	.206	.980	-.390	86	1220	-.308	.154	.161	-1.020
4	1928	-.449	.267	.280	-2.817	74	1209	-.246	.159	.218	-.929	86	1419	-.341	.143	.043	-.900
4	2801	-.108	.191	.724	-.899	74	1220	-.348	.160	.197	-1.122	86	1429	-.411	.172	.098	-1.052
6	1209	.181	.220	.975	-.757	74	1419	-.353	.134	.032	-.891	86	1430	-.351	.160	.087	-.871
6	1220	.380	.263	1.605	-.662	74	1429	-.351	.161	.120	-1.159	86	1619	-.722	.380	.022	-2.459
6	1419	-.275	.174	.396	-1.109	74	1430	-.400	.179	.091	-1.159	86	1630	-.549	.243	.135	-1.642
6	1429	-.276	.158	.198	-.999	74	1619	-.503	.256	.031	-2.311	86	1640	-.137	.178	.417	-.957
6	1430	-.302	.164	.268	-.898	74	1630	-.565	.265	.305	-2.360	86	1849	-.159	.163	.840	-.423
6	1619	-.290	.173	.201	-.991	74	1640	-.201	.192	.458	-.867	86	1922	-.413	.163	.114	-1.010
6	1630	-.260	.158	.285	-1.250	74	1849	-.153	.179	.840	-.403	86	1928	-.092	.191	.633	-.856
6	1640	-.263	.163	.339	-.823	74	1922	-.435	.173	.135	-1.091	86	2801	-.233	.184	.983	-.420
6	1849	-.244	.144	.448	-1.755	74	1928	-.099	.208	.638	-.968	88	1209	-.287	.153	.182	-.918
6	1922	-.422	.288	.478	-2.362	74	2801	-.261	.211	1.146	-.365	88	1220	-.319	.156	.142	-.930
6	1928	-.420	.286	.862	-1.824	76	1209	-.318	.148	.178	-1.184	88	1419	-.353	.151	.047	-1.006
6	2801	-.113	.191	.577	-.974	76	1220	-.341	.149	.193	-1.029	88	1429	-.414	.176	.039	-1.300
8	1209	.150	.249	1.162	-.804	76	1419	-.303	.129	.096	-.726	88	1430	-.351	.163	.153	-1.062
8	1220	.344	.327	1.365	-.561	76	1429	-.371	.150	.120	-.969	88	1619	-.840	.419	.113	-2.652

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION B; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN				
88	1630	546	269	163	-2	119	174	1849	347	180	259	-1	139	182	1928	275	162	498	-1	903	
88	1640	099	171	500	-	743	174	1922	364	212	243	-1	209	182	2801	623	324	249	-2	721	
88	1849	151	177	954	-	605	174	1928	292	175	246	-1	075	184	1209	218	132	231	-	824	
88	1922	431	176	034	-1	077	174	2801	455	318	314	-	342	184	1220	227	127	176	-	784	
88	1928	113	202	553	-1	064	176	1209	237	133	164	-	807	184	1419	603	353	291	-2	266	
88	2801	232	191	158	1	348	176	1220	248	127	113	-	702	184	1429	526	233	080	-1	661	
90	1209	279	145	155	-	802	176	1419	540	329	176	-2	545	184	1430	281	202	191	-	467	
90	1220	306	145	202	-1	833	176	1429	467	219	090	-1	842	184	1619	073	173	679	-	623	
90	1419	323	142	170	-	884	176	1430	358	225	358	-1	850	184	1630	389	242	216	-	614	
90	1429	411	162	097	-1	118	176	1619	050	219	908	-	566	184	1640	316	220	123	-	669	
90	1430	345	149	105	-	902	176	1630	427	254	1	295	-	482	184	1849	318	161	214	-	947
90	1619	793	377	208	-2	589	176	1640	346	235	171	1	498	184	1922	338	183	243	-1	571	
90	1630	475	234	250	-2	448	176	1849	334	155	208	-	952	184	1928	277	157	304	-	933	
90	1640	094	154	402	-2	590	176	1922	336	193	170	-1	307	184	2801	633	322	063	-2	320	
90	1849	135	171	837	-	391	176	1928	262	162	193	-1	143	186	1209	227	140	241	-	822	
90	1922	416	164	038	-1	115	176	2801	445	301	368	-1	998	186	1220	242	135	234	-	720	
90	1928	120	196	564	-1	165	178	1209	242	137	217	-	711	186	1419	614	344	339	-2	690	
90	2801	229	189	960	-	398	178	1220	248	137	231	-	947	186	1429	550	245	624	-1	712	
170	1209	251	142	271	-	864	178	1419	601	316	114	-2	585	186	1430	283	200	379	-1	347	
170	1220	275	142	160	-	804	178	1429	497	236	189	-1	567	186	1619	095	172	601	-	709	
170	1419	469	305	119	-2	306	178	1430	346	222	270	-	497	186	1630	333	251	1	496	-	565
170	1429	457	215	055	-1	437	178	1619	007	194	745	-	591	186	1640	294	225	174	-1	611	
170	1430	404	255	319	-2	062	178	1630	394	209	1	328	-	425	186	1849	279	152	170	-	879
170	1619	154	244	053	1	602	178	1640	317	193	951	-	508	186	1922	312	182	250	-1	225	
170	1630	435	209	151	-	217	178	1849	307	146	256	-	885	186	1928	249	156	231	-	868	
170	1640	362	205	092	-	276	178	1922	370	200	157	-1	143	186	2801	577	292	204	-2	077	
170	1849	330	170	200	-	846	178	1928	293	173	238	-1	072	188	1209	220	154	346	-	742	
170	1922	390	196	320	-1	203	178	2801	548	310	247	-1	891	188	1220	227	147	264	-	999	
170	1928	324	172	247	-1	110	180	1209	231	145	226	-	817	188	1419	602	335	496	-2	420	
170	2801	346	289	366	-2	004	180	1220	237	144	224	-	946	188	1429	537	258	006	-1	758	
172	1209	254	144	191	-	809	180	1419	520	300	487	-1	475	188	1430	260	189	306	-1	347	
172	1220	265	138	141	-	811	180	1429	494	241	146	-1	439	188	1619	104	166	601	-	660	
172	1419	527	304	171	-1	938	180	1430	317	213	258	-1	303	188	1630	330	255	1	265	-	632
172	1429	486	243	111	-1	629	180	1619	015	190	866	-	592	188	1640	280	223	069	-1	518	
172	1430	389	235	283	-1	682	180	1630	374	208	1	106	-	417	188	1849	289	136	254	-	751
172	1619	106	233	930	-	618	180	1640	307	201	994	-	491	188	1922	322	179	238	-1	053	
172	1630	399	211	254	1	201	180	1849	296	154	286	-	853	188	1928	253	158	276	-	999	
172	1640	316	199	138	1	509	180	1922	306	178	244	-1	634	188	2801	562	276	153	-2	009	
172	1849	304	148	219	-	862	180	1928	245	153	221	-	940	190	1209	223	146	210	-	914	
172	1922	399	194	230	-1	638	180	2801	492	283	107	-1	936	190	1220	231	140	279	-1	002	
172	1928	327	167	214	-1	937	182	1209	238	148	267	-	793	190	1419	598	308	381	-1	767	
172	2801	429	333	454	-2	093	182	1220	249	143	234	-	994	190	1429	547	246	293	-1	468	
174	1209	252	148	231	-	762	182	1419	641	350	162	-2	077	190	1430	258	182	318	-1	349	
174	1220	262	144	179	-	844	182	1429	534	256	117	-1	604	190	1619	123	166	1	507	-	701
174	1419	541	343	114	-2	706	182	1430	338	237	197	-2	743	190	1630	274	253	162	-1	521	
174	1429	480	241	131	-2	057	182	1619	065	194	828	-	809	190	1640	256	220	910	-	815	
174	1430	370	238	241	-1	651	182	1630	421	243	1	211	-	766	190	1849	260	147	185	-	790
174	1619	050	201	876	-	530	182	1640	354	214	100	-	335	190	1922	302	175	274	-1	138	
174	1630	432	247	256	1	659	182	1849	348	168	140	-1	034	190	1928	240	153	229	-1	032	
174	1640	354	232	405	1	315	182	1922	344	191	205	-1	261	190	2801	556	256	194	-2	175	

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION B; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPHAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPHIN	WD	TAP	CPMEAN	CPRMS	CPHAX	CPHIN
192	1209	-.229	.153	.299	-.861	200	1419	-.370	.411	1.078	-1.093	208	1430	-.242	.152	.276	-.952
192	1220	-.253	.152	.202	-1.127	200	1429	-.338	.316	.920	-1.794	208	1619	-.182	.150	.510	-.615
192	1419	-.612	.388	.712	-2.340	200	1430	-.227	.145	.215	-.953	208	1630	-.127	.330	1.126	-1.223
192	1429	-.509	.271	.698	-1.571	200	1619	-.149	.146	.310	-.618	208	1640	-.018	.381	1.193	-1.838
192	1430	-.258	.168	.232	-1.515	200	1630	-.139	.264	.937	-1.528	208	1849	-.200	.152	.268	-.819
192	1619	-.130	.167	.572	-.817	200	1640	-.176	.226	.876	-1.293	208	1922	-.302	.204	.281	-1.581
192	1630	-.281	.263	1.336	-.803	200	1849	-.215	.149	.257	-.711	208	1928	-.223	.156	.308	-.783
192	1640	-.272	.245	1.270	-.825	200	1922	-.307	.179	.259	-1.355	208	2801	-.371	.196	.189	-1.397
192	1849	-.276	.152	.251	-.798	200	1928	-.243	.144	.298	-.854	210	1209	-.209	.151	.217	-.917
192	1922	-.333	.208	.337	-1.643	200	2801	-.482	.246	.201	-1.777	210	1220	-.250	.166	.224	-1.137
192	1928	-.264	.175	.457	-.879	202	1209	-.229	.146	.190	-.770	210	1419	-.036	.340	1.258	-1.416
192	2801	-.600	.302	.071	-2.443	202	1220	-.280	.167	.211	-1.599	210	1429	-.102	.281	.883	-1.191
194	1209	-.205	.134	.232	-.931	202	1419	-.384	.443	.470	-2.583	210	1430	-.222	.141	.197	-1.007
194	1220	-.230	.137	.201	-.882	202	1429	-.354	.340	1.281	-1.558	210	1619	-.170	.130	.374	-.654
194	1419	-.556	.387	.601	-2.136	202	1430	-.273	.160	.252	-.848	210	1630	-.180	.332	.844	-1.718
194	1429	-.468	.274	.771	-1.486	202	1619	-.158	.146	.311	-.722	210	1640	-.043	.293	.905	-1.788
194	1430	-.237	.154	.271	-1.003	202	1630	-.041	.308	1.000	-1.162	210	1849	-.180	.122	.170	-.596
194	1619	-.134	.159	.591	-.669	202	1640	-.132	.272	1.107	-1.342	210	1922	-.281	.190	.342	-1.149
194	1630	-.263	.261	1.207	-.694	202	1849	-.215	.144	.248	-.851	210	1928	-.203	.146	.324	-.734
194	1640	-.266	.238	1.200	-.820	202	1922	-.306	.198	.453	-1.166	210	2801	-.292	.162	.343	-1.042
194	1849	-.270	.154	.178	-.869	202	1928	-.245	.167	.277	-.918	250	1209	-.441	.204	.132	-1.883
194	1922	-.331	.188	.257	-1.395	202	2801	-.504	.262	.087	-1.707	250	1220	-.404	.200	.170	-1.464
194	1928	-.255	.152	.195	-1.066	204	1209	-.220	.147	.263	-.828	250	1419	-.326	.230	.990	-.380
194	2801	-.555	.284	.126	-2.297	204	1220	-.272	.155	.216	-1.093	250	1429	-.324	.245	1.297	-2.273
196	1209	-.201	.142	.275	-.809	204	1419	-.327	.423	.550	-2.479	250	1430	-.186	.210	.978	-.475
196	1220	-.230	.136	.165	-1.199	204	1429	-.302	.348	.978	-1.688	250	1619	-.297	.175	.211	-1.773
196	1419	-.433	.400	.741	-2.123	204	1430	-.251	.154	.286	-.784	250	1630	-.414	.169	.082	-1.033
196	1429	-.451	.275	.906	-2.080	204	1619	-.164	.153	1.044	-1.263	250	1640	-.741	.393	.155	-2.652
196	1430	-.233	.142	.228	-1.139	204	1630	-.037	.329	1.044	-1.263	250	1849	-.165	.131	.224	-.808
196	1619	-.134	.156	.505	-.680	204	1640	-.066	.297	.962	-1.531	250	1922	-.308	.159	.258	-1.546
196	1630	-.222	.318	1.393	-.953	204	1849	-.199	.141	.227	-.669	250	1928	-.264	.159	.275	-1.044
196	1640	-.255	.280	1.107	-.732	204	1922	-.309	.189	.227	-1.374	250	2801	-.198	.133	.277	-1.693
196	1849	-.152	.152	.149	-.817	204	1928	-.238	.149	.186	-.806	252	1209	-.443	.240	.222	-1.556
196	1922	-.280	.171	.174	-1.124	204	2801	-.443	.222	.098	-1.615	252	1220	-.404	.231	.256	-2.238
196	1928	-.211	.142	.187	-.750	206	1209	-.223	.153	.222	-.881	252	1419	-.367	.248	1.160	-.428
198	1209	-.212	.234	.021	-2.001	206	1220	-.277	.171	.271	-1.354	252	1429	-.301	.225	1.084	-.314
198	1220	-.250	.157	.251	-1.028	206	1419	-.127	.419	1.131	-2.045	252	1430	-.170	.200	1.052	-.458
198	1419	-.473	.397	.764	-2.138	206	1429	-.190	.328	.819	-1.272	252	1619	-.298	.181	.171	-1.343
198	1429	-.384	.331	.904	-1.494	206	1430	-.244	.153	.364	-.803	252	1630	-.423	.198	.186	-1.165
198	1430	-.241	.167	.346	-1.301	206	1619	-.177	.153	.323	-.719	252	1640	-.799	.436	.194	-2.981
198	1619	-.139	.158	.511	-.671	206	1630	-.091	.306	.802	-1.292	252	1849	-.162	.156	.417	-.798
198	1630	-.172	.303	1.130	-1.636	206	1640	-.019	.278	.968	-1.398	252	1922	-.275	.200	.302	-1.469
198	1640	-.245	.254	1.182	-1.588	206	1849	-.196	.154	.314	-.877	252	1928	-.273	.167	.285	-1.319
198	1849	-.239	.156	.265	-.809	206	1922	-.308	.197	.343	-1.467	252	2801	-.209	.143	.341	-1.719
198	1922	-.299	.192	.407	-1.203	206	1928	-.225	.153	.271	-.865	254	1209	-.460	.230	.091	-1.773
198	1928	-.245	.165	.225	-1.398	206	2801	-.368	.211	.131	-1.695	254	1220	-.399	.219	.318	-1.753
198	2801	-.539	.251	.179	-1.722	208	1209	-.230	.157	.290	-.960	254	1419	-.332	.236	1.182	-.457
200	1209	-.198	.141	.268	-.721	208	1220	-.276	.179	.149	-2.136	254	1429	-.298	.218	1.138	-.389
200	1220	-.241	.147	.215	-1.279	208	1419	-.107	.383	.915	-1.648	254	1430	-.201	.213	.979	-.619
200						208	1429	-.178	.309	.907	-1.440	254	1619	-.269	.168	.384	-1.056

## APPENDIX A -- PRESSURE DATA:

## CONFIGURATION B; U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2554	1630	-.377	.191	.142	-1.281	262	1849	-.131	.133	.252	-.572	270	1928	-.267	.159	.263	-.769
2554	1640	-.696	.371	.156	-2.843	262	1922	-.292	.181	.349	-1.089	270	2801	-.146	.136	.266	-.585
2554	1849	-.150	.139	.304	-.631	262	1928	-.266	.156	.159	-1.123	272	1209	-.609	.271	.290	-1.662
2554	1922	-.306	.195	.323	-1.341	262	2801	-.160	.131	.218	-.628	272	1220	-.388	.232	.295	-1.986
2554	1928	-.267	.159	.221	-1.171	264	1209	-.619	.276	.166	-1.859	272	1419	-.042	.282	.668	-.568
2554	2801	-.195	.137	.306	-.751	264	1220	-.440	.266	.268	-2.179	272	1429	.124	.219	.804	-.582
2556	1209	-.510	.230	.135	-1.720	264	1419	-.162	.236	.852	-.728	272	1430	-.109	.192	.803	-.869
2556	1220	-.428	.236	.298	-1.637	264	1429	-.195	.192	.812	-.484	272	1619	-.233	.137	.325	-.777
2556	1419	-.266	.230	1.191	-.387	264	1430	-.172	.185	.936	-.411	272	1630	-.278	.159	.436	-1.046
2556	1429	-.273	.218	1.137	-.435	264	1619	-.252	.145	.177	-.893	272	1640	-.498	.316	.433	-2.173
2556	1430	-.191	.203	1.001	-.435	264	1630	-.346	.169	.163	-1.007	272	1849	-.119	.124	.427	-.491
2556	1619	-.191	.160	.311	-1.297	264	1640	-.680	.367	.077	-2.081	272	1922	-.302	.177	.338	-1.245
2556	1630	-.419	.192	.265	-1.243	264	1849	-.135	.130	.299	-.546	272	1928	-.279	.150	.250	-.967
2556	1640	-.798	.453	.097	-2.143	264	1922	-.299	.189	.235	-1.104	272	2801	-.154	.119	.208	-.625
2556	1849	-.152	.135	.375	-.759	264	1928	-.271	.165	.237	-1.057	274	1209	-.537	.300	.389	-2.109
2556	1922	-.299	.182	.219	-1.231	264	2801	-.161	.137	.233	-.648	274	1220	-.021	.224	.242	-1.918
2556	1928	-.271	.158	.204	-1.251	266	1209	-.601	.276	.145	-1.914	274	1419	-.062	.265	.766	-.610
2556	2801	-.190	.136	.268	-.651	266	1220	-.420	.270	.432	-2.226	274	1429	-.059	.218	.926	-.702
2558	1209	-.529	.253	.119	-1.666	266	1419	-.139	.215	.824	-.587	274	1430	-.236	.185	.763	-.622
2558	1220	-.425	.247	.299	-1.569	266	1429	-.175	.182	.862	-.567	274	1619	-.059	.134	.180	-.860
2558	1419	-.264	.231	1.094	-.521	266	1430	-.153	.181	.830	-.497	274	1630	-.276	.161	.186	-1.119
2558	1429	-.223	.190	.936	-.401	266	1619	-.230	.151	.175	-.735	274	1640	-.453	.285	.159	-1.940
2558	1430	-.166	.180	.899	-.558	266	1630	-.307	.174	.192	-1.033	274	1849	-.127	.118	.257	-.558
2558	1619	-.263	.155	.280	-.993	266	1640	-.558	.332	.177	-2.598	274	1922	-.298	.180	.282	-1.426
2558	1630	-.374	.190	.243	-1.250	266	1849	-.123	.135	.254	-.583	274	1928	-.279	.155	.229	-.873
2558	1640	-.727	.389	-.119	-2.962	266	1922	-.286	.174	.263	-1.408	274	2801	-.144	.122	.252	-.665
2558	1849	-.142	.139	.312	-.764	266	1928	-.261	.149	.215	-1.218	276	1209	-.544	.295	.359	-1.996
2558	1922	-.298	.194	.277	-1.254	266	2801	-.155	.121	.280	-.626	276	1220	-.347	.218	.278	-2.374
2558	1928	-.268	.166	.241	-1.024	268	1209	-.640	.296	.288	-2.030	276	1419	-.017	.211	.717	-.802
2558	2801	-.184	.144	.291	-.724	268	1220	-.420	.272	.261	-1.867	276	1429	-.043	.238	.876	-.990
2560	1209	-.544	.255	.105	-2.222	268	1419	-.118	.229	.953	-.700	276	1430	-.058	.193	.808	-.621
2560	1220	-.414	.245	.451	-1.858	268	1429	-.152	.194	.855	-.670	276	1619	-.257	.151	.267	-1.096
2560	1419	-.249	.234	1.054	-.450	268	1430	-.134	.184	.965	-.439	276	1630	-.303	.182	.266	-1.246
2560	1429	-.207	.201	.996	-.415	268	1619	-.251	.148	.177	-.896	276	1640	-.471	.331	.207	-2.452
2560	1430	-.156	.192	1.008	-.432	268	1630	-.341	.177	.212	-1.218	276	1849	-.129	.132	.302	-.538
2560	1619	-.251	.146	.173	-.788	268	1640	-.604	.368	.061	-2.344	276	1922	-.278	.182	.320	-1.131
2560	1630	-.346	.140	1.140	-1.092	268	1849	-.135	.130	.297	-.592	276	1928	-.257	.160	.218	-.854
2560	1640	-.695	.374	.081	-2.701	268	1922	-.313	.202	.400	-1.552	276	2801	-.136	.131	.301	-.548
2560	1849	-.138	.127	.296	-.754	268	1928	-.289	.170	.210	-1.182	278	1209	-.486	.309	.541	-1.825
2560	1922	-.299	.190	.247	-1.257	268	2801	-.160	.140	.272	-.653	278	1220	-.312	.200	.257	-1.506
2560	1928	-.264	.167	.261	-1.007	270	1209	-.577	.271	.274	-1.825	278	1419	-.044	.196	.618	-.718
2560	2801	-.168	.149	.315	-.703	270	1220	-.380	.246	.220	-2.108	278	1429	-.001	.206	.715	-.821
2562	1209	-.534	.250	.161	-1.769	270	1419	-.064	.228	.929	-.633	278	1430	-.034	.161	.655	-.745
2562	1220	-.413	.255	.226	-1.858	270	1429	-.124	.188	.806	-.682	278	1619	-.236	.140	.176	-.840
2562	1419	-.172	.237	1.275	-.524	270	1430	-.110	.179	.833	-.425	278	1630	-.271	.168	.195	-1.402
2562	1429	-.201	.199	.866	-.340	270	1619	-.244	.141	.253	-.714	278	1640	-.374	.259	.174	-2.007
2562	1430	-.169	.191	1.045	-.611	270	1630	-.303	.165	.125	-.989	278	1849	-.118	.117	.236	-.530
2562	1619	-.248	.147	.181	-1.022	270	1640	-.560	.329	.306	-2.586	278	1922	-.289	.177	.256	-1.173
2562	1630	-.343	.176	.171	-.941	270	1849	-.132	.128	.281	-.566	278	1928	-.270	.154	.234	-.875
2562	1640	-.631	.363	.128	-2.758	270	1922	-.288	.183	.342	-1.159	278	2801	-.146	.126	.370	-.552



APPENDIX A -- PRESSURE DATA:

CONFIGURATION B: U.S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	1209	-458	315	653	-1.933	336	1419	-469	212	206	-1.477	344	1430	255	283	-2.061	
280	1220	-304	197	285	-1.825	336	1429	-456	232	237	-1.726	344	1619	304	249	-1.910	
280	1419	-083	202	394	-0.851	336	1430	-658	254	095	-2.332	344	1630	404	081	-1.034	
280	1429	-022	213	396	-0.861	336	1619	-280	142	180	-0.876	344	1640	307	153	-1.211	
280	1430	-009	177	266	-0.861	336	1630	-384	172	123	-1.262	344	1849	372	406	-1.475	
280	1619	-243	129	117	-1.777	336	1640	-255	179	302	-1.134	344	1922	463	146	-1.476	
280	1630	-282	182	159	-1.443	336	1849	-278	191	281	-1.855	344	1928	343	194	-1.463	
280	1640	-350	258	139	-2.433	336	1922	-467	235	316	-1.835	344	2801	260	635	-1.151	
280	1849	-120	112	217	-0.590	336	1928	-325	163	143	-1.734	346	1209	306	204	-1.258	
280	1922	-284	184	290	-0.977	336	2801	-199	195	548	-0.961	346	1220	390	227	-1.255	
280	1928	-269	163	256	-0.917	338	1209	-360	219	170	-0.329	346	1419	409	131	-1.421	
280	2801	-142	125	307	-0.589	338	1220	-271	228	122	-0.445	346	1429	423	097	-1.602	
330	1209	-332	211	294	-1.266	338	1419	-457	201	143	-1.437	346	1430	536	073	-1.494	
330	1220	-141	216	156	-0.465	338	1429	-497	231	241	-1.642	346	1619	312	184	-1.866	
330	1419	-416	202	383	-1.492	338	1430	-686	252	037	-2.095	346	1630	391	109	-1.063	
330	1429	-444	233	041	-1.939	338	1619	-296	142	130	-0.869	346	1640	319	301	-0.966	
330	1430	-661	242	041	-1.939	338	1630	-403	174	118	-1.108	346	1849	400	186	-1.727	
330	1619	-282	146	148	-0.864	338	1640	-274	175	280	-1.010	346	1922	450	097	-1.476	
330	1630	-382	184	162	-1.172	338	1849	-315	209	302	-1.846	346	1928	339	149	-1.900	
330	1640	-238	161	335	-1.125	338	1922	-467	225	424	-1.617	346	1928	339	169	-1.562	
330	1849	-237	171	234	-1.402	338	1928	-326	161	270	-1.173	346	2801	261	630	-1.562	
330	1922	-404	217	195	-1.505	338	2801	-210	221	606	-1.239	346	1209	324	211	-1.263	
330	1928	-293	146	162	-0.902	340	1209	-336	219	167	-0.334	346	1220	435	238	-1.319	
330	2801	-159	179	611	-1.085	340	1220	-330	237	172	-0.424	346	1419	422	120	-1.065	
332	1209	-315	219	189	-0.263	340	1419	-481	213	188	-1.682	346	1429	461	138	-1.662	
332	1220	-137	217	412	-0.413	340	1429	-481	238	231	-1.547	346	1430	569	046	-2.055	
332	1419	-479	223	165	-1.619	340	1430	-639	247	032	-2.395	346	1619	329	161	-1.957	
332	1429	-434	228	288	-1.855	340	1619	-296	157	219	-0.871	346	1630	412	062	-1.231	
332	1430	-656	213	133	-2.087	340	1630	-391	184	122	-1.206	346	1640	326	192	-1.957	
332	1619	-287	143	187	-0.810	340	1640	-260	188	302	-0.975	346	1849	406	200	-2.097	
332	1630	-400	185	089	-1.131	340	1849	-307	213	249	-1.294	346	1922	476	146	-1.432	
332	1640	-235	170	379	-0.980	340	1922	-489	238	177	-1.678	346	1928	369	217	-1.588	
332	1849	-247	175	286	-1.243	340	1928	-340	164	124	-1.357	346	2801	231	252	-1.335	
332	1922	-467	243	440	-1.560	340	2801	-227	221	531	-1.385	350	1209	293	216	-0.995	
332	1928	-328	162	211	-1.154	342	1209	-349	225	164	-0.665	350	1220	472	254	-1.154	
332	2801	-165	186	770	-0.917	342	1220	-356	239	217	-0.243	350	1419	408	189	-1.153	
334	1209	-320	211	072	-0.348	342	1419	-465	211	117	-1.578	350	1429	421	113	-1.379	
334	1220	-159	215	985	-0.430	342	1429	-477	242	168	-2.685	350	1430	515	067	-1.351	
334	1419	-433	220	300	-1.462	342	1430	-615	262	027	-2.096	350	1619	328	177	-1.051	
334	1429	-444	230	196	-1.469	342	1619	-316	142	123	-0.847	350	1630	388	187	-1.160	
334	1430	-650	258	021	-2.142	342	1630	-411	165	054	-1.135	350	1640	297	426	-1.167	
334	1619	-300	149	137	-0.934	342	1640	-300	173	188	-1.444	350	1849	373	246	-1.635	
334	1630	-399	180	116	-1.153	342	1849	-345	203	168	-1.494	350	1922	447	132	-1.972	
334	1640	-270	178	217	-0.348	342	1922	-490	235	131	-1.981	350	1928	360	137	-1.372	
334	1849	-278	192	251	-1.284	342	1928	-346	156	108	-0.912	350	2801	228	768	-1.111	
334	1922	-412	224	245	-1.651	344	1209	-245	231	664	-1.377	352	1209	316	208	-1.440	
334	1928	-296	156	230	-0.884	344	1220	-345	230	110	-0.337	352	1220	500	261	-2.644	
334	2801	-167	177	703	-0.760	344	1209	-382	261	1	-0.336	352	1419	412	190	-1.415	
336	1209	-328	213	344	-0.464	344	1220	-427	189	285	-1.291	352	1429	460	109	-1.845	
336	1220	-240	226	065	-0.416	344	1419	-478	230	191	-1.518	352	1430	557	134	-1.637	
							1429	-478	230	191	-1.518	352	1619	335	164	252	-1.223



APPENDIX A -- PRESSURE DATA:

CONFIGURATION B; U. S. STEEL GRANT STREET BUILDING

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
352	1630	-.387	.176	.245	-1.237	354	1849	-.355	.228	.349	-1.492	356	1928	-.416	.231	.334	-2.038
352	1640	-.307	.181	.170	-1.159	354	1922	-.465	.217	.172	-1.626	356	2801	-.145	.224	.779	-1.073
352	1849	-.385	.258	.642	-1.976	354	1928	-.430	.217	.483	-1.659	358	1209	-.262	.184	1.029	-.336
352	1922	-.477	.223	.216	-1.529	354	2801	-.183	.252	.825	-1.521	358	1220	-.525	.231	1.520	-.236
352	1928	-.403	.205	.206	-1.778	356	1209	-.259	.202	1.489	-.377	358	1419	-.341	.178	.210	-1.751
352	2801	-.217	.247	.636	-1.420	356	1220	-.479	.246	1.301	-.260	358	1429	-.359	.165	.148	-1.167
354	1209	-.275	.190	.983	-.326	356	1419	-.336	.170	.152	-1.393	358	1430	-.420	.180	.126	-1.380
354	1220	-.491	.260	1.503	-.309	356	1429	-.362	.176	.143	-1.229	358	1619	-.322	.170	.197	-1.180
354	1419	-.379	.193	.263	-1.336	356	1430	-.431	.195	.127	-1.818	358	1630	-.347	.156	.181	-.927
354	1429	-.399	.182	.123	-1.430	356	1619	-.308	.169	.184	-1.112	358	1640	-.284	.162	.194	-1.012
354	1430	-.483	.215	.093	-1.679	356	1630	-.335	.160	.153	-.874	358	1849	-.340	.233	.641	-1.992
354	1619	-.326	.159	.156	-1.128	356	1640	-.276	.168	.168	-.958	358	1922	-.440	.229	.338	-2.078
354	1630	-.371	.156	.123	-1.168	356	1849	-.337	.229	.810	-2.052	358	1928	-.421	.236	.297	-1.939
354	1640	-.283	.164	.215	-1.323	356	1922	-.442	.218	.309	-1.965	358	2801	-.146	.217	.571	-.921

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