

WIND-TUNNEL STUDY OF
STATE OF ILLINOIS CENTER, CHICAGO

by

J. A. Peterka* and J. E. Cermak**

for

Murphy-Knight
Architects-Engineers
80 East Jackson Boulevard
Chicago, Illinois 60604

Fluid Mechanics and Wind Engineering Program
Fluid Dynamics and Diffusion Laboratory
Department of Civil Engineering
Colorado State University
Fort Collins, Colorado 80523

Projects 2-27010, 2-27170

November 1980

- * Associate Professor
- ** Professor-in-Charge, Fluid Mechanics
and Wind Engineering Program

CER80-81JAP-JEC20

TABLE OF CONTENTS

<u>Chapter</u>	<u>Page</u>
LIST OF FIGURES	ii
LIST OF TABLES	iii
LIST OF SYMBOLS	iv
1 INTRODUCTION	1
1.1 General	1
1.2 The Wind-Tunnel Test	2
2 EXPERIMENTAL CONFIGURATION	5
2.1 Wind Tunnel	5
2.2 Model	5
3 INSTRUMENTATION AND DATA ACQUISITION	8
3.1 Flow Visualization	8
3.2 Pressures	8
3.3 Velocity	10
4 RESULTS	12
4.1 Flow Visualization	12
4.2 Velocity	12
4.3 Pressures	15
4.4 Forces and Moments	19
5 DISCUSSION	21
5.1 Flow Visualization	21
5.2 Pedestrian Winds	21
5.3 Pressures	23
REFERENCES	24
FIGURES	25
TABLES	66
APPENDIX A	154

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	Fluid Dynamics and Diffusion Laboratory	26
2	Wind-Tunnel Configuration	27
3	Pressure Tap Locations	28
4	Building Location and Pedestrian Wind Velocity Measuring Positions	37
5	Completed Model in Wind Tunnel	38
6	Data Sampling Time Verification	40
7	Mean Velocity and Turbulence Profiles approaching the Model	41
8	Mean Velocities and Turbulence Intensities at Pedestrian Locations	49
9	Wind-Velocity Probabilities for Pedestrian Locations	57
10	Peak-Pressure Contours on the Building for Cladding Loads	60

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1	Motion Picture Scene Guide	67
2	Pedestrian Wind Velocities and Turbulence Intensities	68
3	Annual Percentage Frequencies of Wind Direction and Speed	72
4	Summary of Wind Effects on People	73
5	Calculation of Reference Pressure	74
6	Maximum Pressure Coefficients and Loads in PSF . . .	75
7	Loads, Shears, and Moments for each Wind Direction .	78

LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
U	Local mean velocity
D	Characteristic dimension (building height, width, etc.)
ν, ρ	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_{∞}	Reference mean velocity outside the boundary layer
X, Y	Horizontal coordinates
Z	Height above surface
δ	Height of boundary layer
T_u	Turbulence intensity $\frac{U_{rms}}{U_{\infty}}$ or $\frac{U_{rms}}{U}$
$C_{P_{mean}}$	Mean pressure coefficient, $\frac{(p-p_{\infty})_{mean}}{0.5 \rho U_{\infty}^2}$
$C_{P_{rms}}$	Root-mean-square pressure coefficient, $\frac{((p-p_{\infty}) - (p-p_{\infty})_{mean})_{rms}}{0.5 \rho U_{\infty}^2}$
$C_{P_{max}}$	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

<u>Symbol</u>	<u>Definition</u>
p	Fluctuating pressure at a pressure tap on the structure
p_{∞}	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/ν be similar for model and prototype. Since ν , the kinematic viscosity of air, is identical for both, Reynolds numbers cannot be made precisely equal with reasonable wind velocities. 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_{rms} (root-mean-square velocity) was obtained from

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

where E_{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_{∞} . 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, δ , is shown in Figure 7. The corresponding prototype value of δ 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_∞ , turbulence intensity U_{rms}/U_∞ , 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.

5. DISCUSSION

5.1 Flow Visualization

Flow visualization identified three approach wind sectors where gaps in adjacent buildings permitted high winds direct access to at least a portion of the structure; west, north to northeast, and east. In addition, the height of the building permitted winds of moderate strength to reach the truncated cylinder for south to southwest winds. Flow patterns indicating the presence of vortices originating from setbacks on the northeast and northwest corners and from top edges of the truncated cylinder were clearly evident for all wind directions where high winds could reach the building. Model pressure tests were recommended on the basis of the flow visualization tests.

Velocities in most pedestrian areas about the base of the building appeared to be moderate with no obvious high-wind areas.

5.2 Approach Wind Profiles and Pedestrian Winds

Figures 7a through 7h show the mean velocity and turbulence intensity profiles approaching the modeled area (7a) and profiles at the building site without building in place for a set of approach wind directions (7b - 7h). The approach wind azimuth is listed in Figures 7b - 7h as the last 2 or 3 digits of the data point identifier. The power law profile for the approach velocity is 0.27. It is evident that the velocity at the building site over the height of the building is reduced from that of the approach flow for all wind directions measured.

Figure 4 shows the 15 pedestrian locations selected for study. Location 1, in the Daley Center Plaza, was selected as a reference location which should be reasonably undisturbed by presence of the State Office Center building. Locations 5, 6, 7, and 10 are located underneath overhangs. Table 2 and Figure 8 show that the largest values of mean velocity were 55 and 53 percent of U_{∞} , the mean velocity at gradient height for wind azimuths of 180 and 203 degrees, both measured at location 15. All other measurements of mean velocity were below 50 percent of U_{∞} . The largest mean velocity measured at reference location 1 was 47 percent of U_{∞} while an open-country environment would expect a mean velocity of about 45 percent of U_{∞} .

The largest 8 values of fluctuating velocity, U_{rms} , were between 15 and 22 percent, all measured at location 15. The largest value measured at reference location 1 was 15 percent; an open-country environment would expect a fluctuating velocity of about 10-12 percent of U_{∞} . The largest values of peak gust, represented by the mean plus three rms as discussed in Section 4.2, were between 93 and 110 percent of U_{∞} for 6 wind directions at location 15. This compares to a largest value of 92 percent at location 1 and 80-90 percent expected in an open-country environment.

Velocity data of Figure 2 integrated with local wind data is shown in Figure 9. Based on the data in this figure, the windiest location will be in the vicinity of location 15 where the comfort criteria for walking will be exceeded 40 or more percent of the time for mean winds and 10-20 percent of the time for gusts. The velocity at location 15 does not exceed the unacceptable criteria line.

Reference location 1 and location 4 were not quite as windy as location 15 with the comfort criteria for walking exceeded about 20-30 percent of the time for mean winds and one percent for peak gusts. Most pedestrian locations were quite low in velocity with the comfort criteria for long exposure or short exposure exceeded only a few percent of the time.

The results of the pedestrian wind velocity analysis showed that the pedestrian environment about the building will be generally good. Location 15, and to a lesser extent location 4, will experience winds which are generally uncomfortable for walking on windier days. These locations should not, however, be generally considered as unacceptable.

5.3 Pressures

Table 6 shows the largest pressure coefficients and loads measured on the building for each pressure tap location. The largest peak pressure coefficients measured on the Illinois State Office building were -2.6 and -2.3 at wind azimuths 130 and 10 for taps 820 and 830 respectively. Both pressures were located on the truncated cylinder on top of the building. The largest pressure coefficient on the building, exclusive of the truncated cylinder, was -2.1 measured at tap 222 adjacent to a setback near the northeast corner of the building for a wind azimuth of 10 degrees. Pressure coefficients of 2.1-2.6 correspond to pressures of 59-67 psf based on the 50-year recurrence wind selected in Table 5.

Contour plots of 50-yr recurrence wind load, shown in Figure 10, show that most pressures on the building were between 15 and 30 psf.

REFERENCES

1. Cermak, J. E., "Laboratory Simulation of the Atmospheric Boundary Layer," AIAA J1., Vol. 9, September 1971.
2. Cermak, J. E., "Applications of Fluid Mechanics to Wind Engineering," A Freeman Scholar Lecture, ASME J1. of Fluids Engineering, Vol. 97, No. 1, March 1975.
3. Cermak, J. E., "Aerodynamics of Buildings," Annual Review of Fluid Mechanics, Vol. 8, 1976, pp. 75-106.
4. Penwarden, A. D., and Wise, A. F. E., "Wind Environment Around Buildings," Building Research Establishment Report, HMSO, 1975.
5. Melbourne, W. H., "Criteria for Environmental Wind Conditions," J1. Industrial Aerodynamics, vol. 3, pp. 241-247, 1978.
6. American National Standards Institute, "American National Standard Building Code Requirements for Minimum Design Loads in Buildings and Other Structures," ANSI Standard A58.1, 1972.
7. Hollister, S. C., "The Engineering Interpretation of Weather Bureau Records for Wind Loading on Structures," Building Science Series 30--Wind Loads on Buildings and Structures, National Bureau of Standards, pp. 151-164, 1970.
8. Peterka, J. A., and Cermak, J. E., "Peak-Pressure Duration in Separated Regions on a Structure," U.S.-Japan Research Seminar on Wind Effects on Structures, Kyoto, Japan, 9-13 September 1974; Report CEP74-75JAP-JEC8, Fluid Mechanics Program, Colorado State University, September 1974.
9. PPG Glass Thickness Recommendations to Meet Architects' Specified 1-Minute Wind Load, Pittsburgh Plate Glass Industries, April 1979.
10. Shand, E. B., "Glass Engineering Handbook," Second Edition, McGraw-Hill, New York, p. 51, 1958.

FIGURES

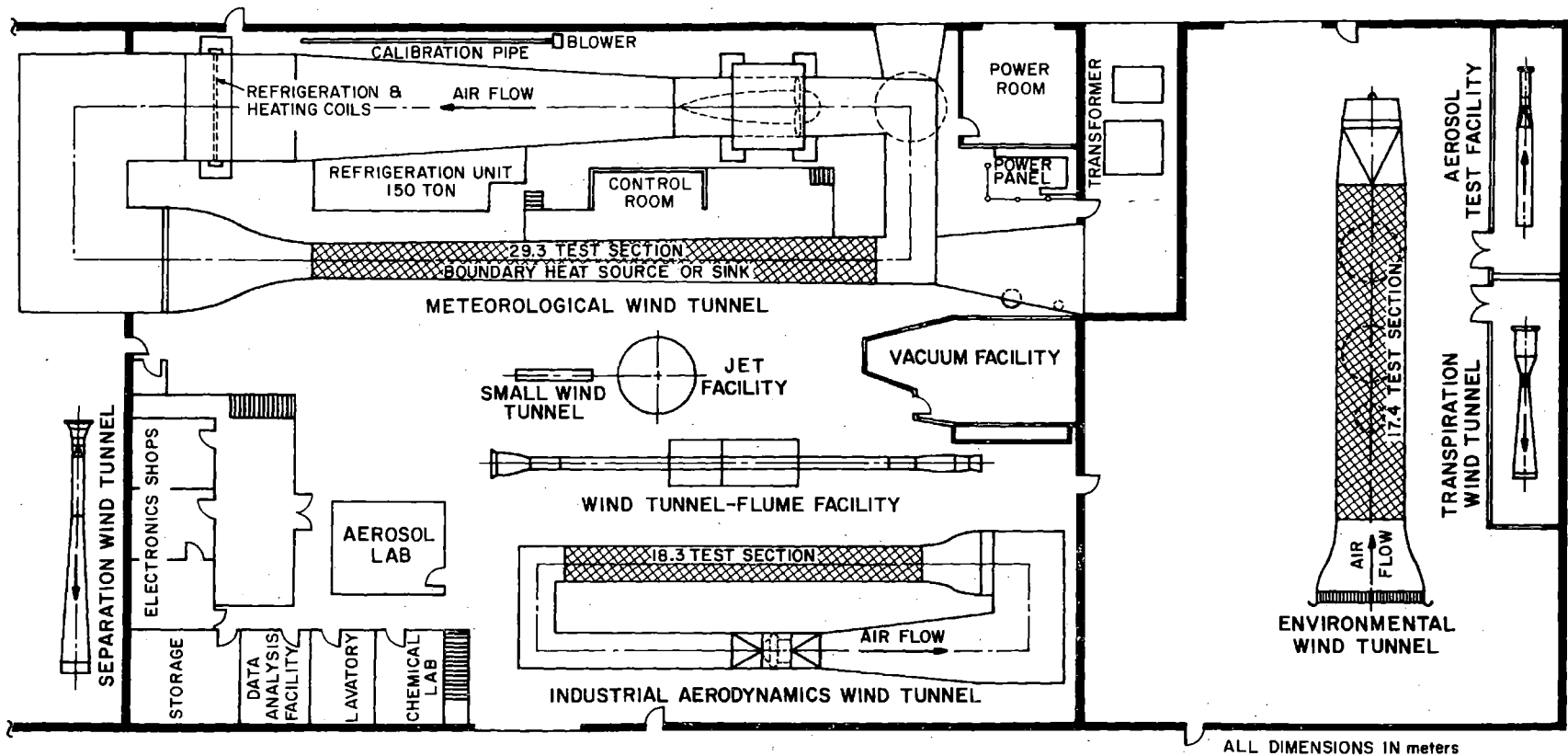
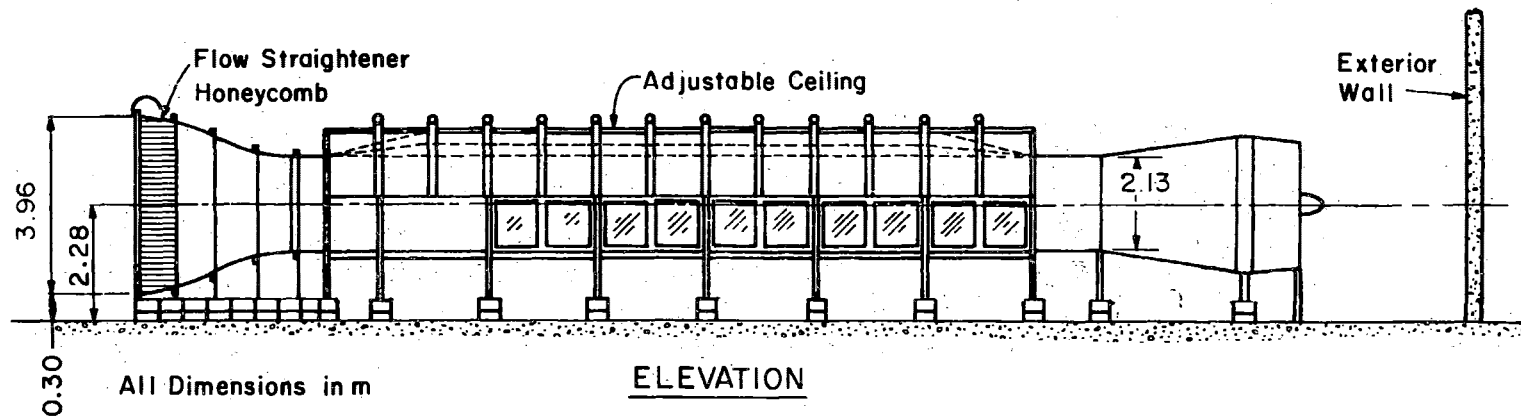
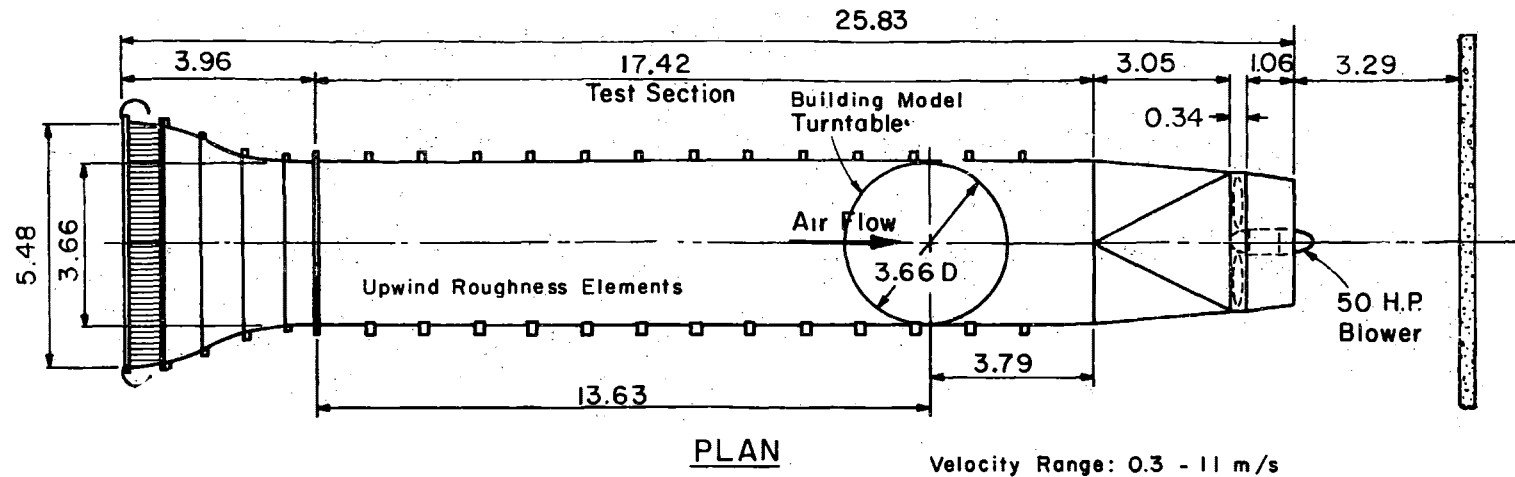


FIGURE 1 - FLUID DYNAMICS AND DIFFUSION LABORATORY
 COLORADO STATE UNIVERSITY



ENVIRONMENTAL WIND TUNNEL

Figure 2 - Wind Tunnel Configuration

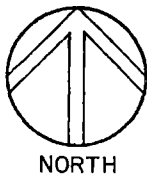
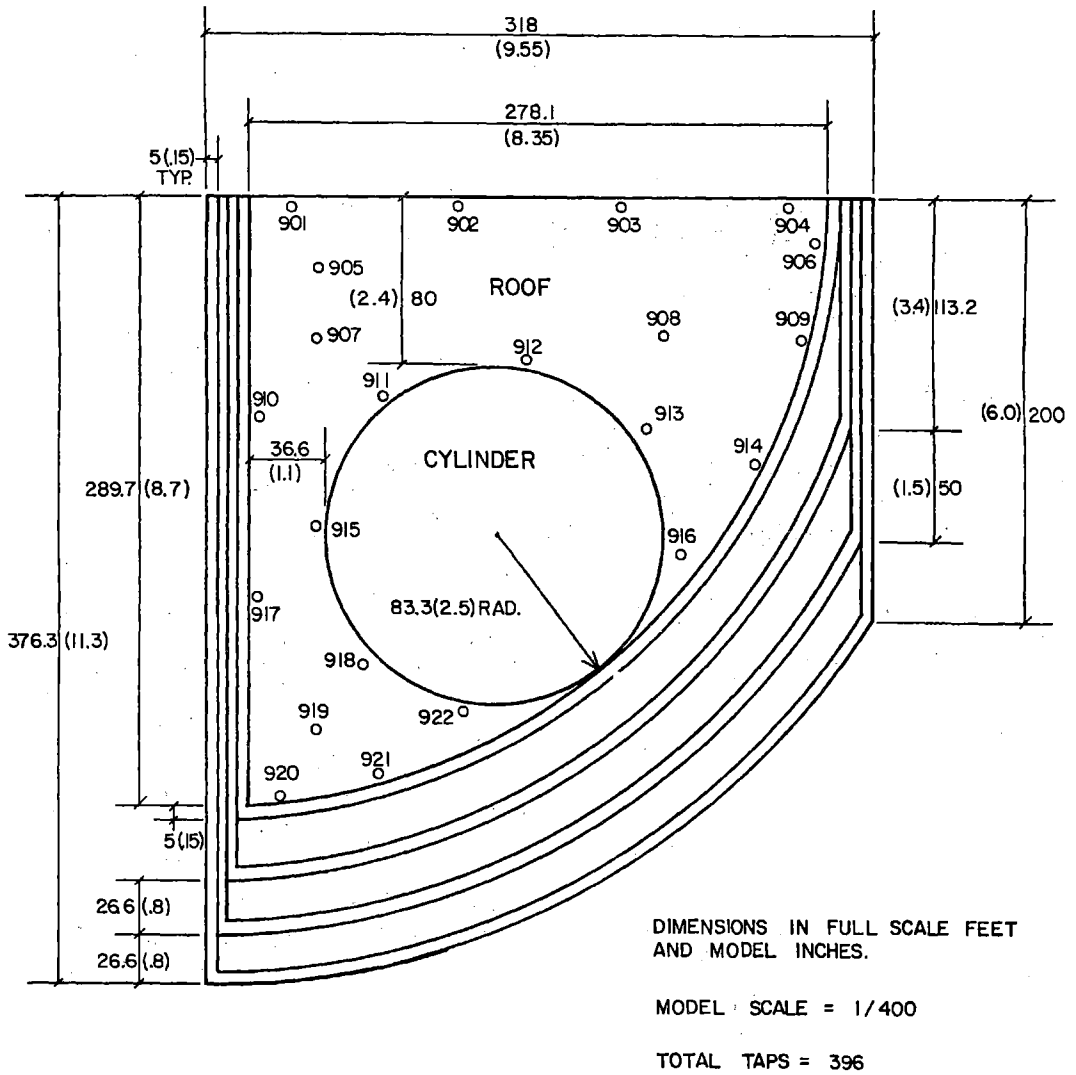


Figure 3a. Pressure Tap Locations

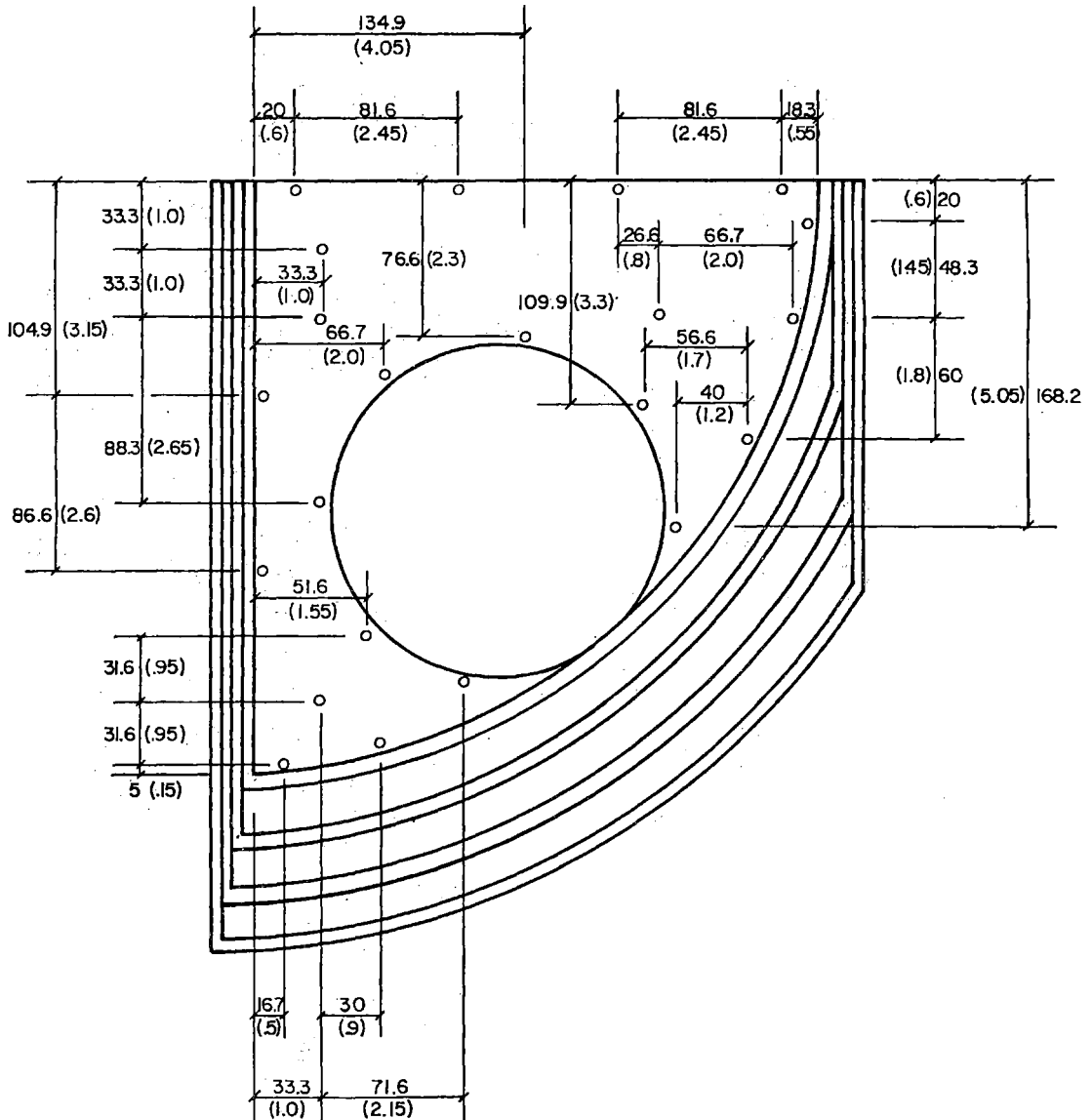


Figure 3b. Pressure Tap Locations

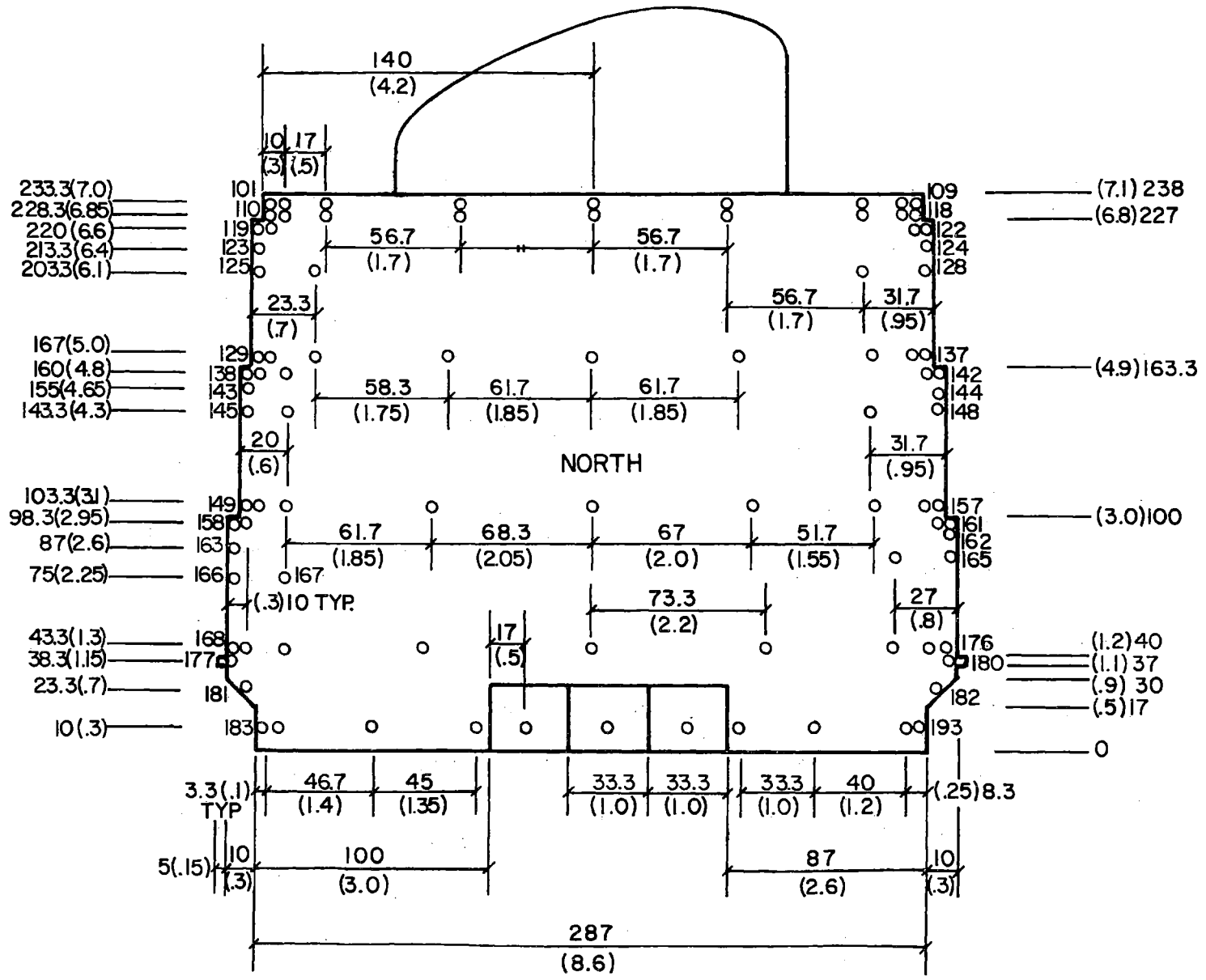


Figure 3c. Pressure Tap Locations

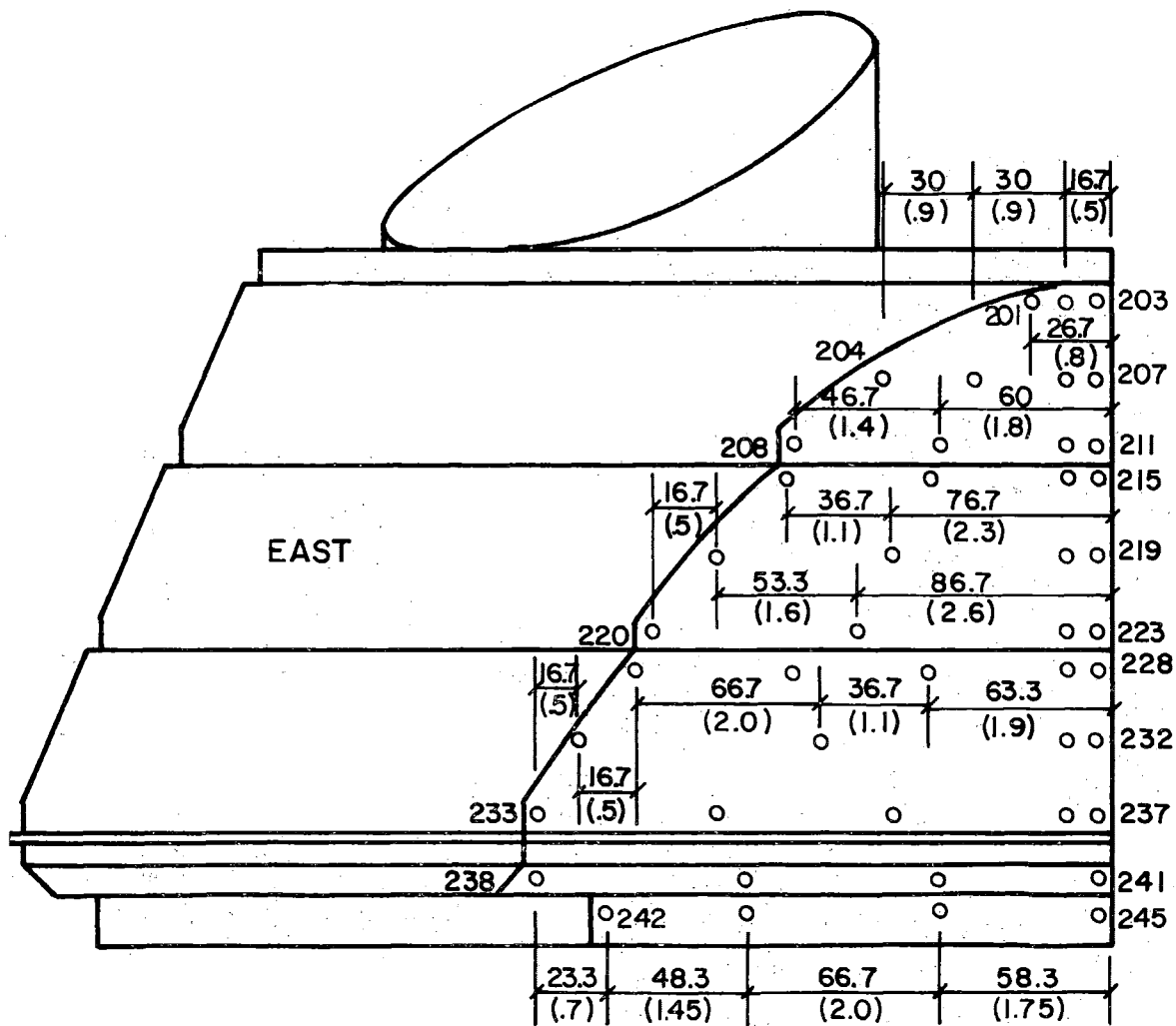


Figure 3d. Pressure Tap Locations

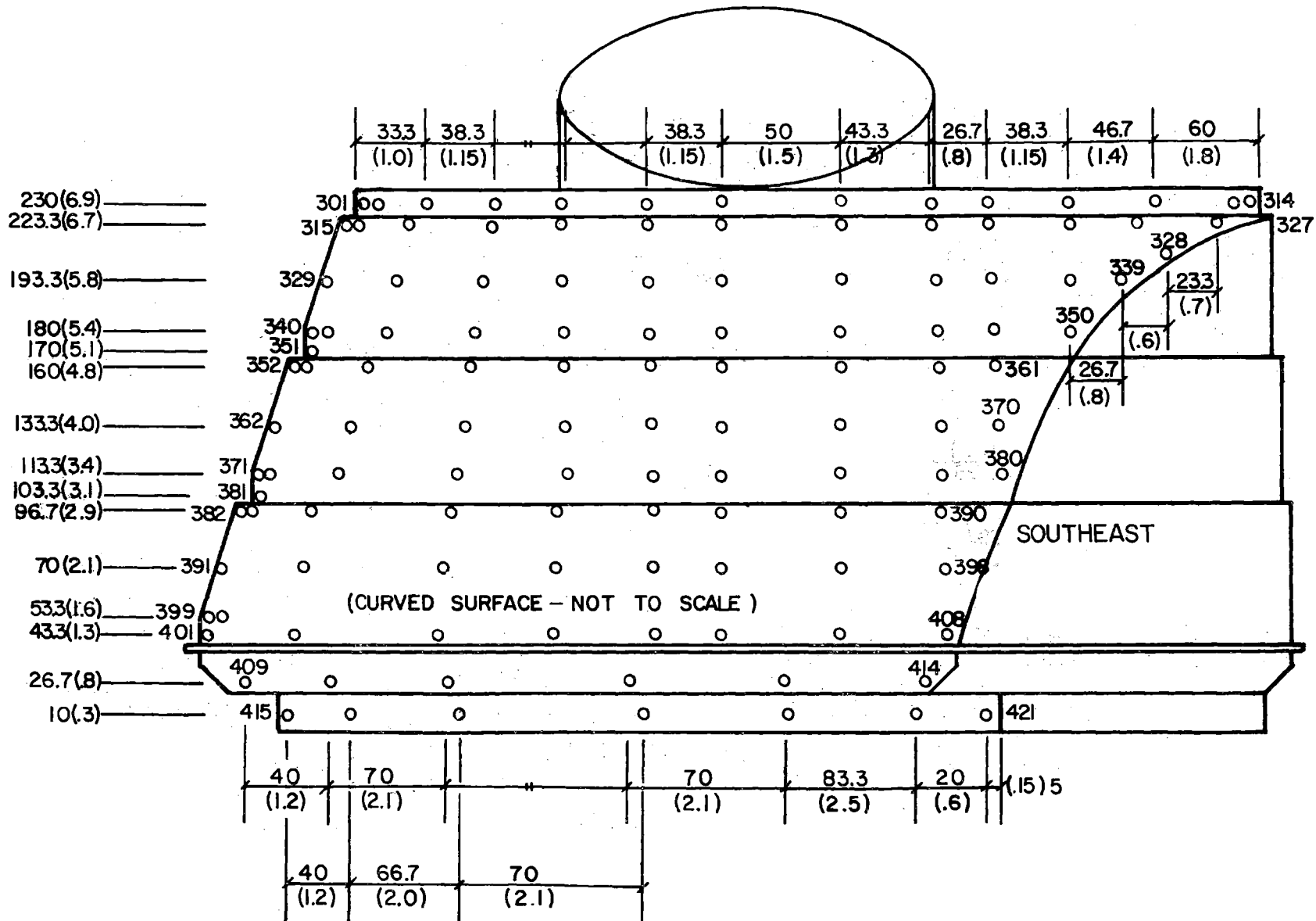


Figure 3e. Pressure Tap Locations

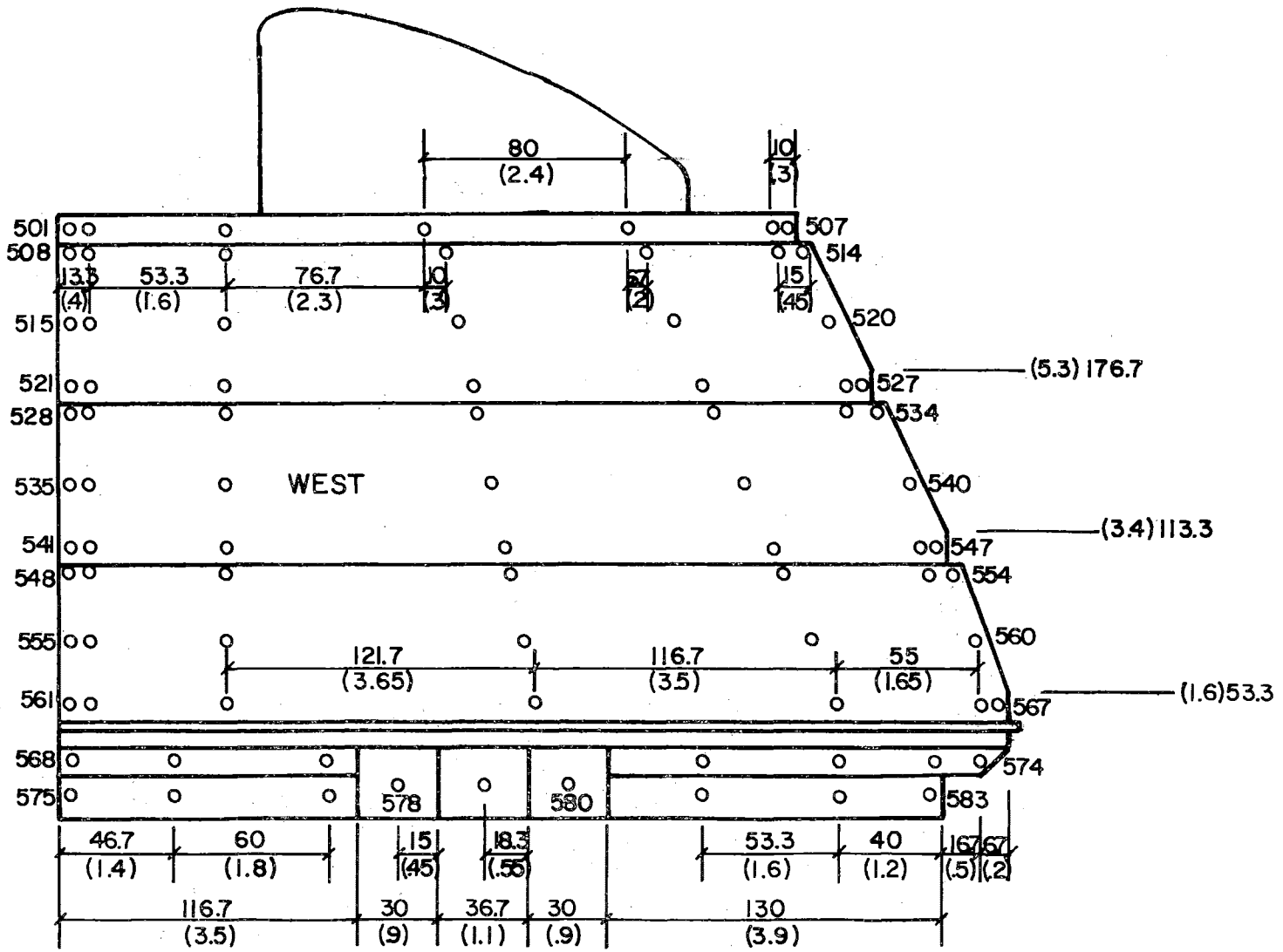


Figure 3f. Pressure Tap Locations

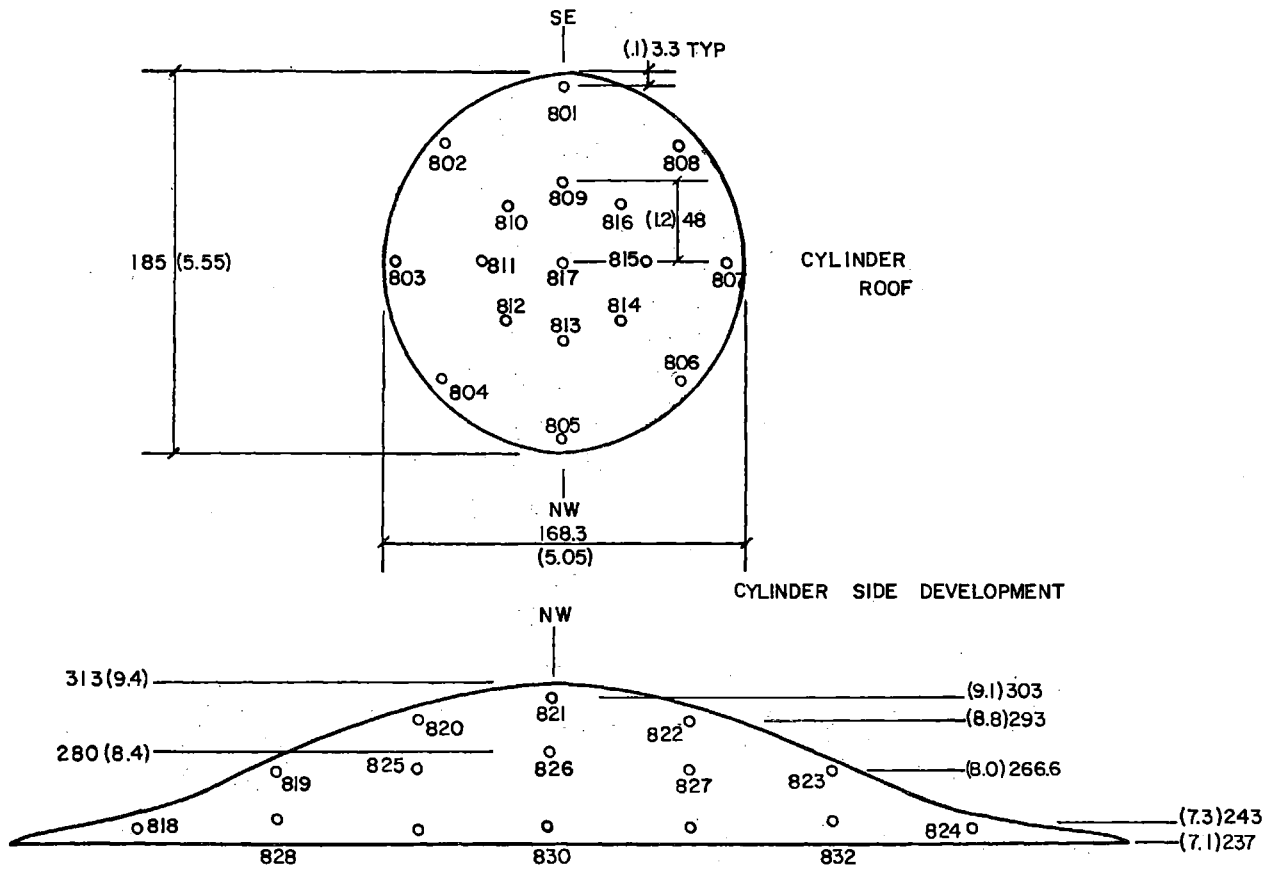
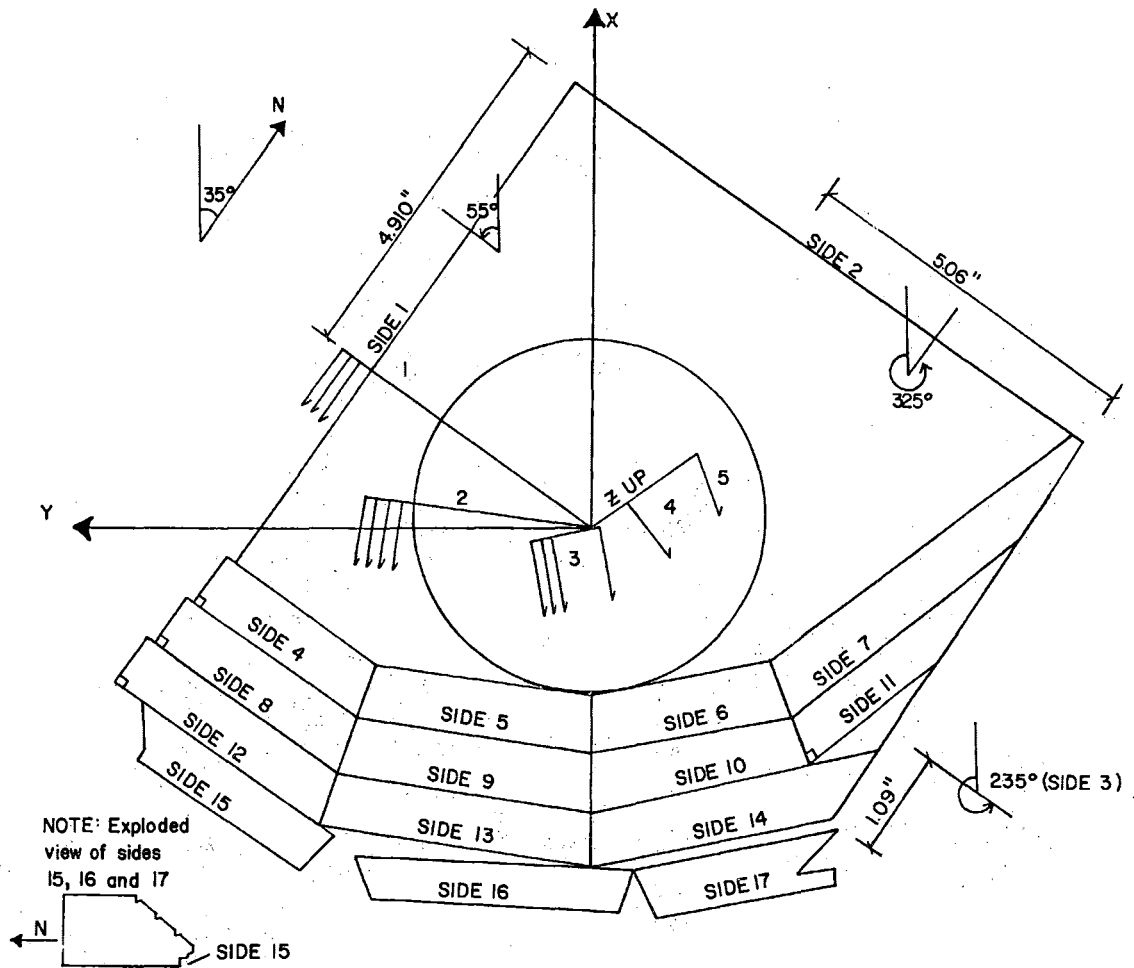


Figure 3g. Pressure Tap Locations



SIDE	ANGLE	Z AXIS
1	45	3.82
8	145	3.95
12	145	4.06
15	145	3.82
2	5	3.02
9	170	3.14
13	170	3.31
16	176	2.64
3	6	.42
10	191	.52
14	191	.64
17	195	-.33
4	7	-1.55
5	11	-1.87

Figure 3h. Force and Moment Coordinate System

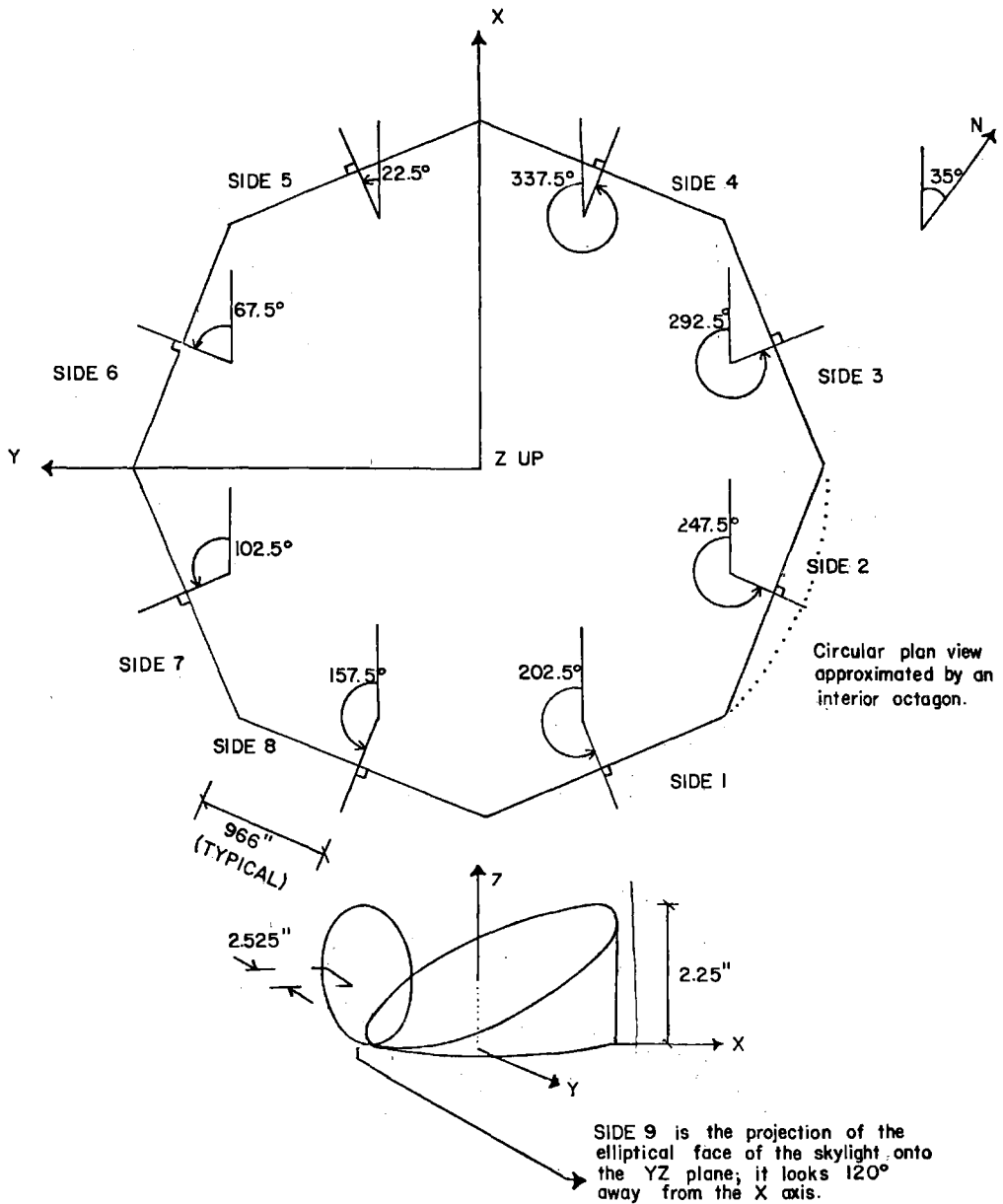


Figure 3i. Force and Moment Coordinate System

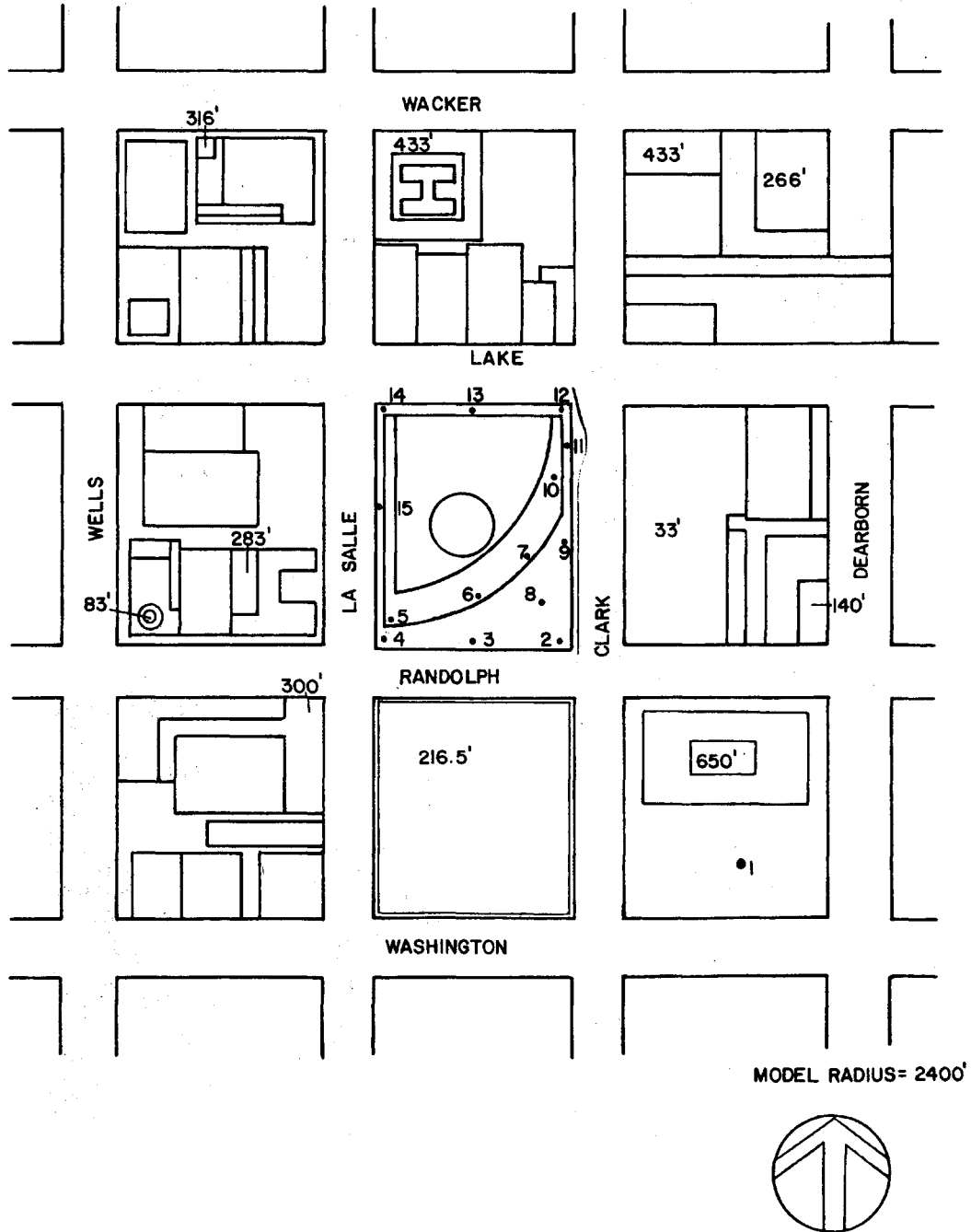


Figure 4. Building Location and Pedestrian Wind Velocity Measuring Positions

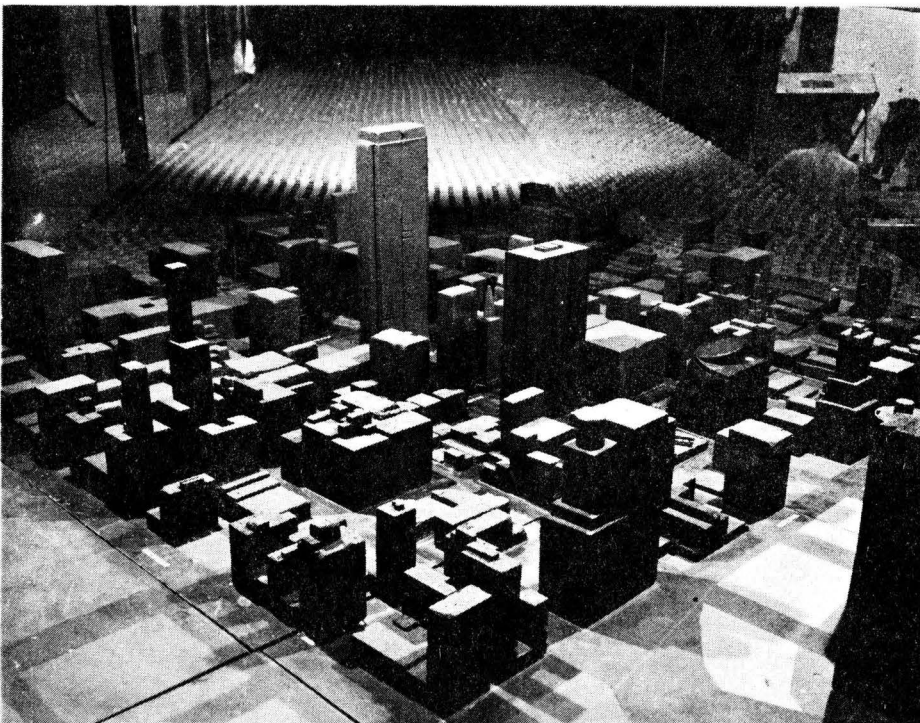
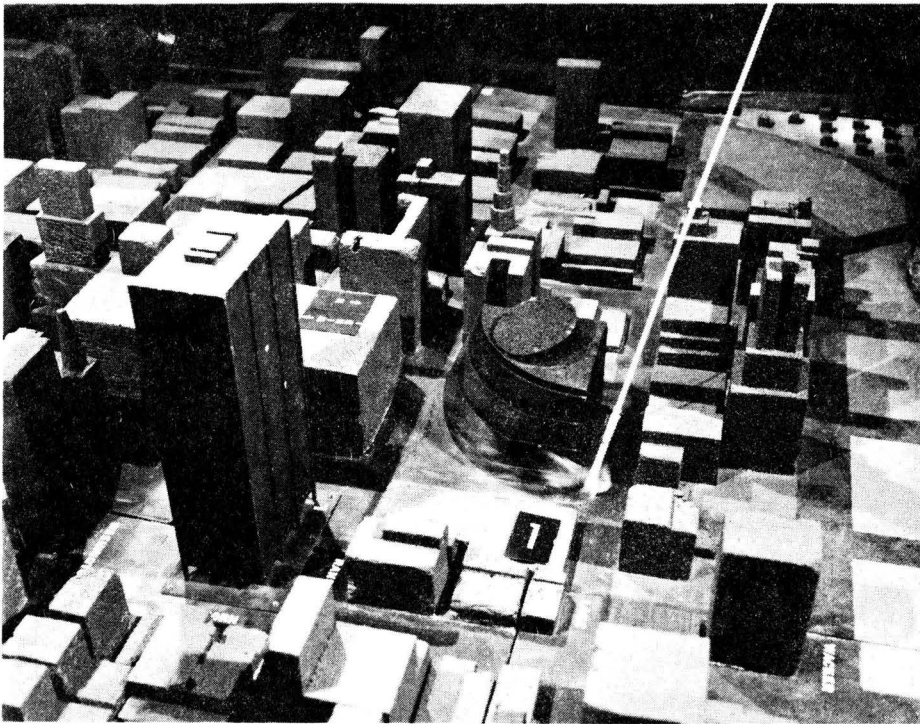


Figure 5. Completed Model in Wind Tunnel

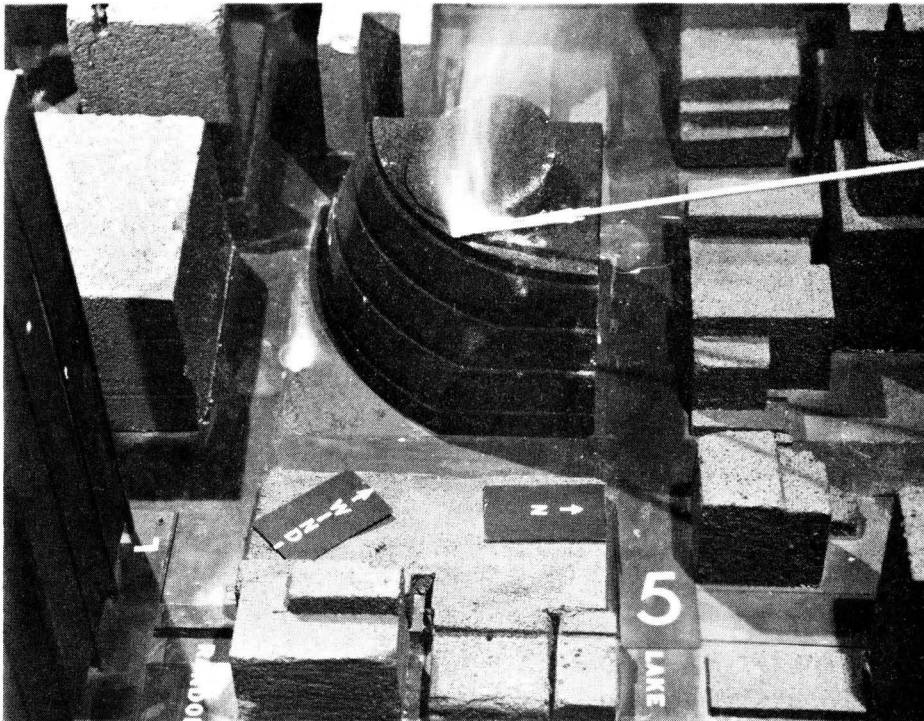
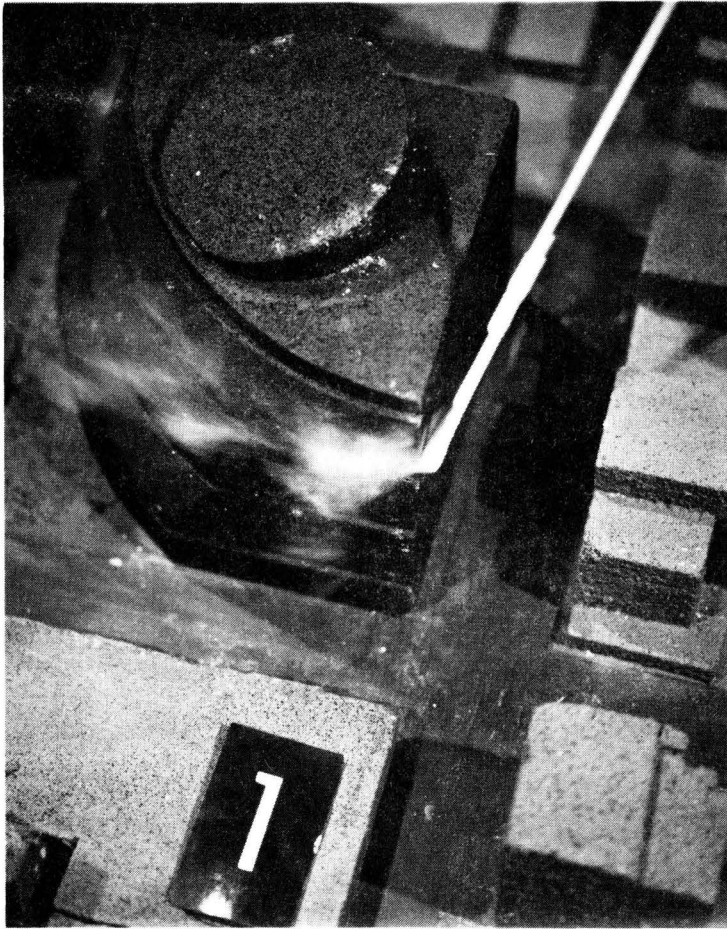


Figure 5. Completed Model in Wind Tunnel

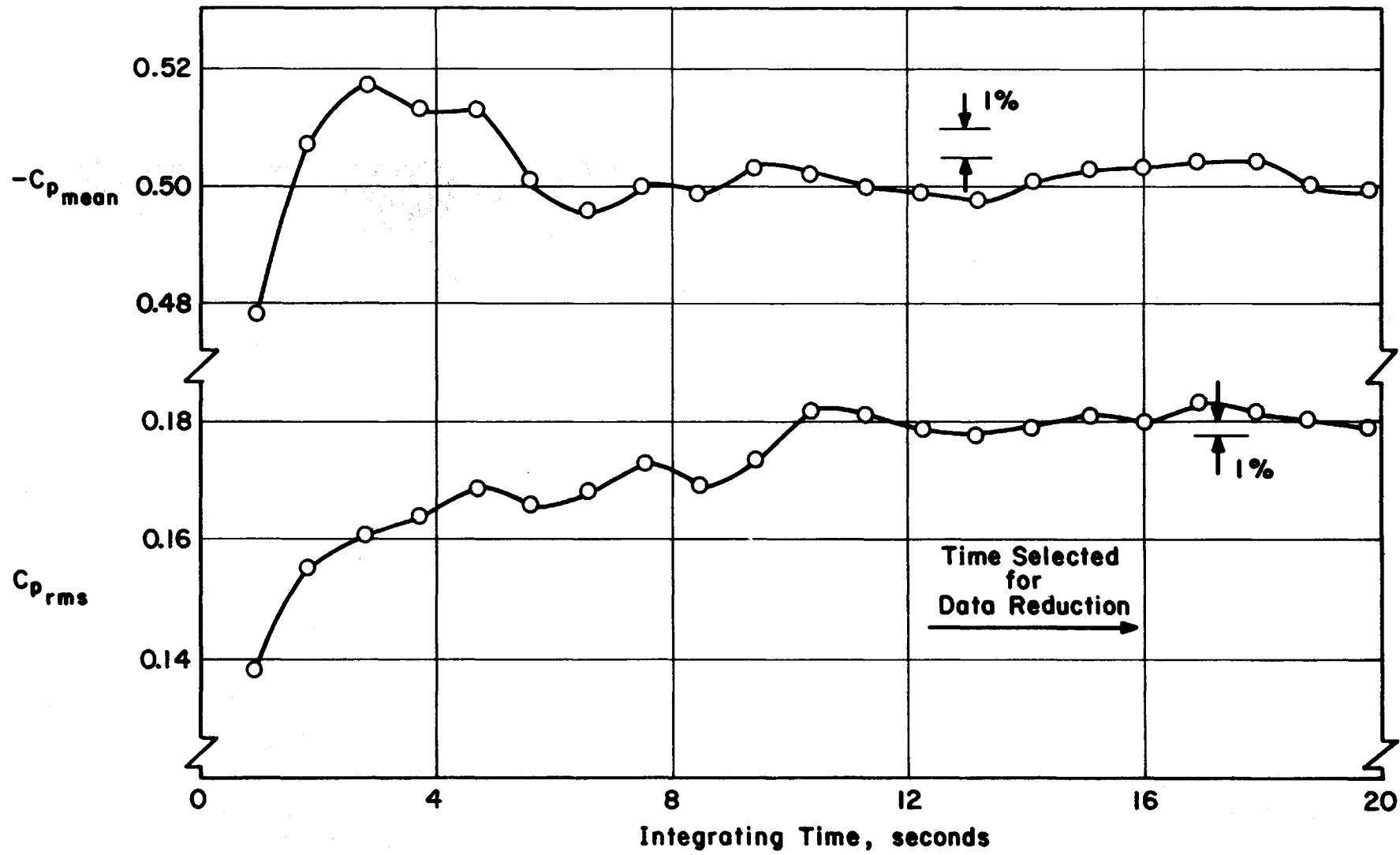


Figure 6 - Data Sampling Time Verification

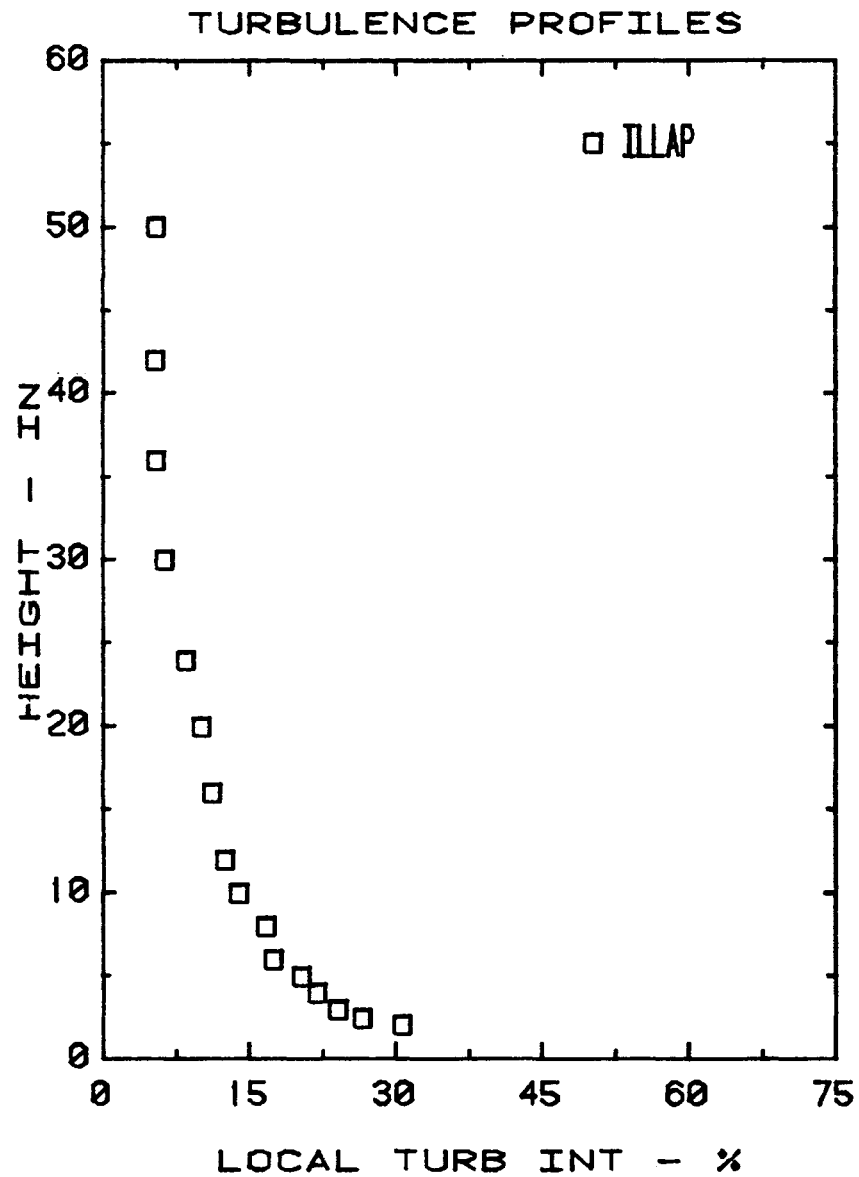
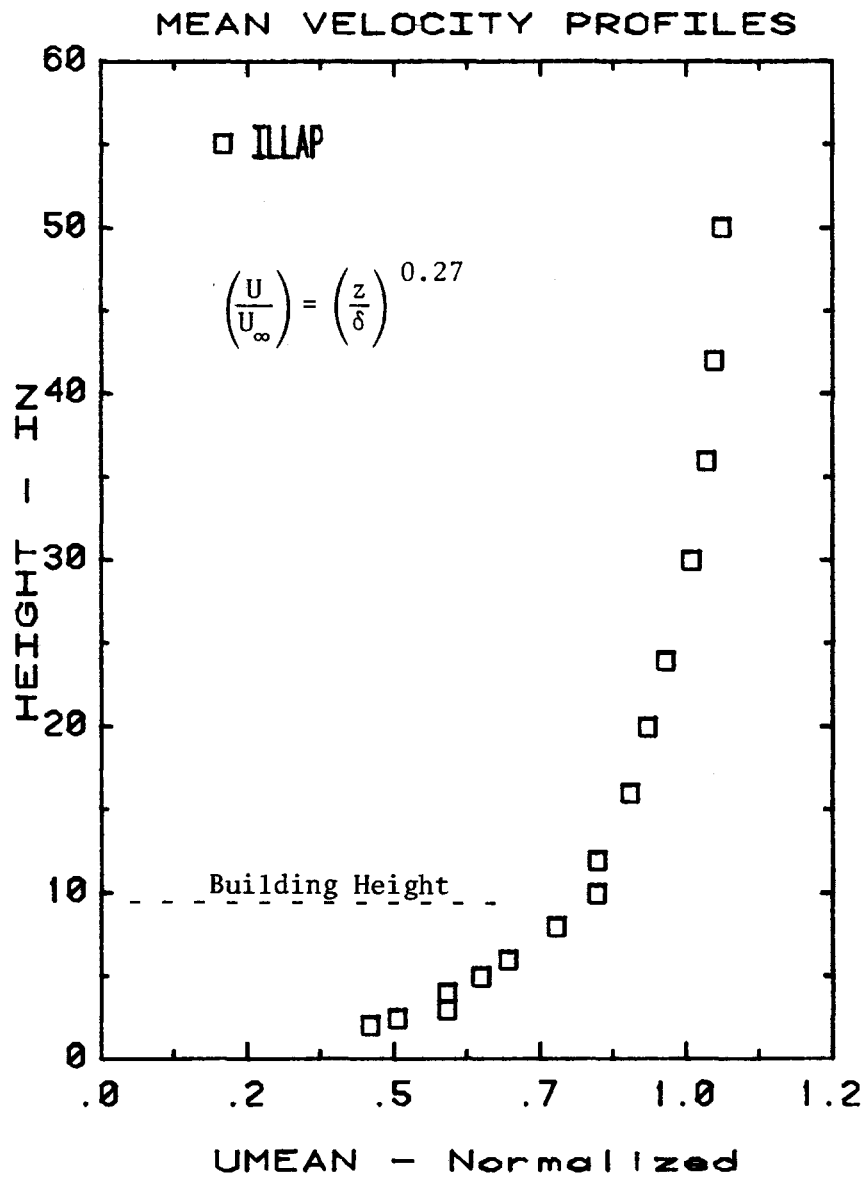


Figure 7a. Mean Velocity and Turbulence Profiles Approaching the Model

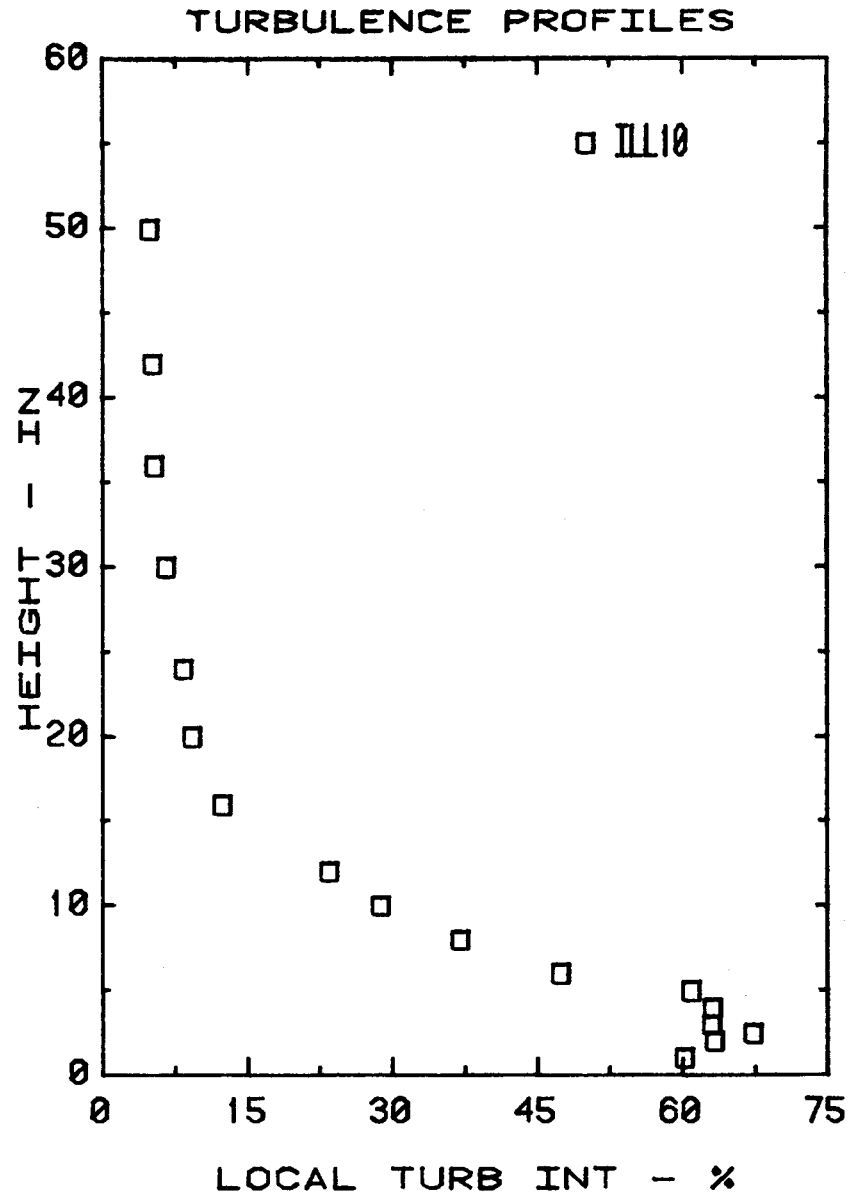
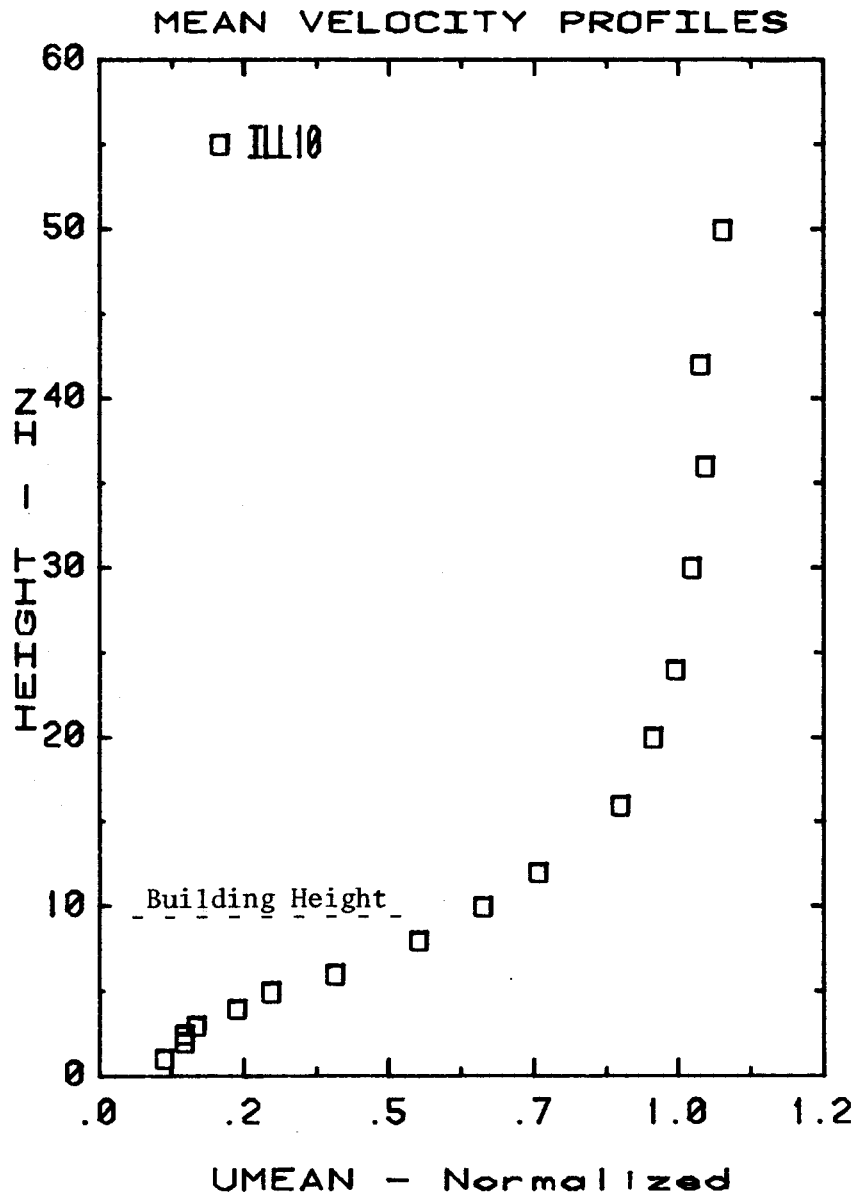


Figure 7b. Mean Velocity and Turbulence Profiles Approaching the Model

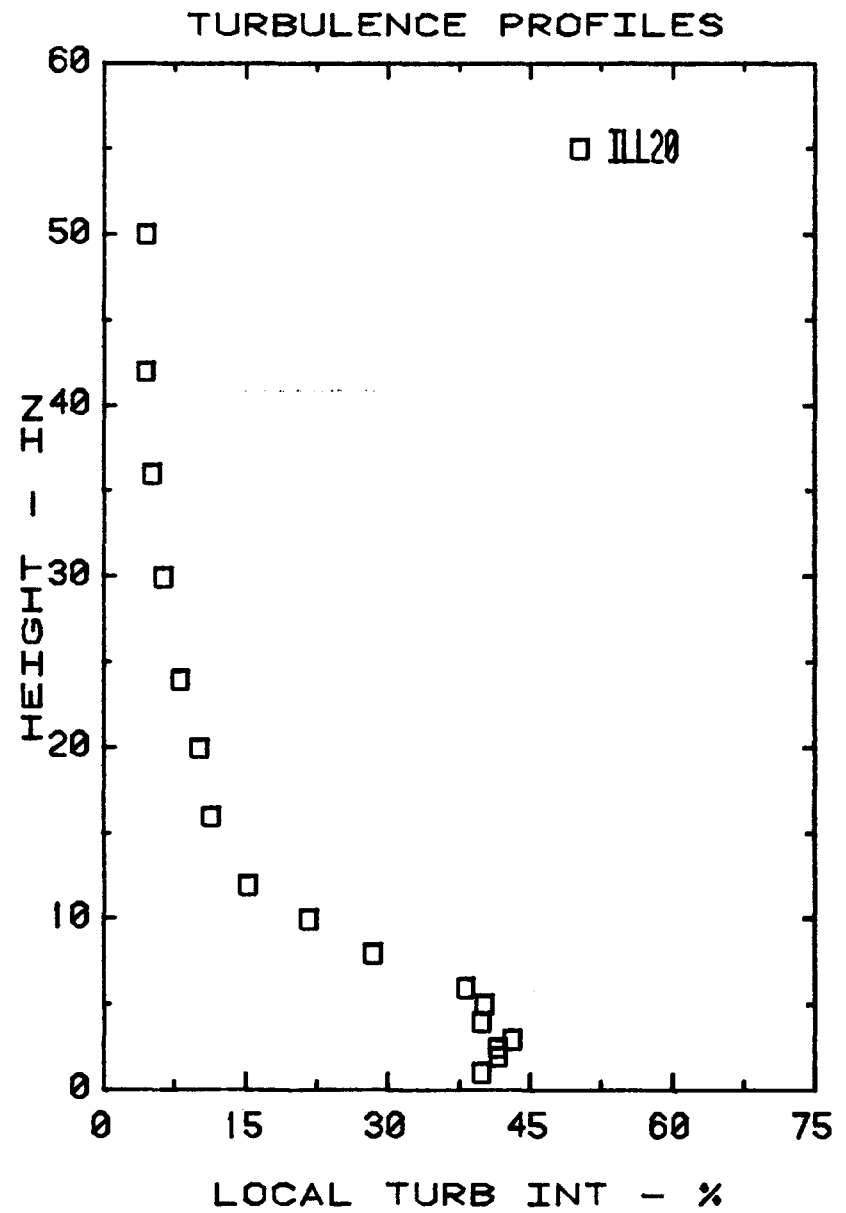
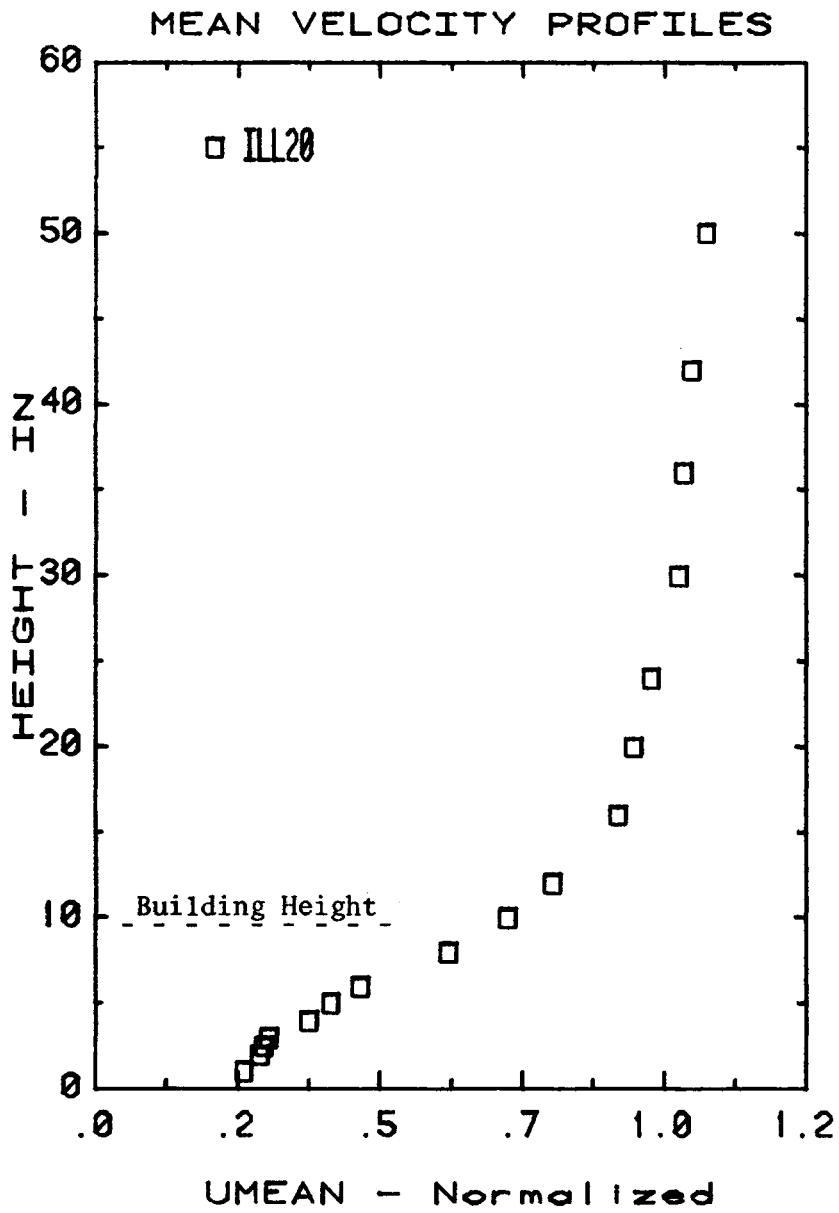


Figure 7c. Mean Velocity and Turbulence Profiles Approaching the Model

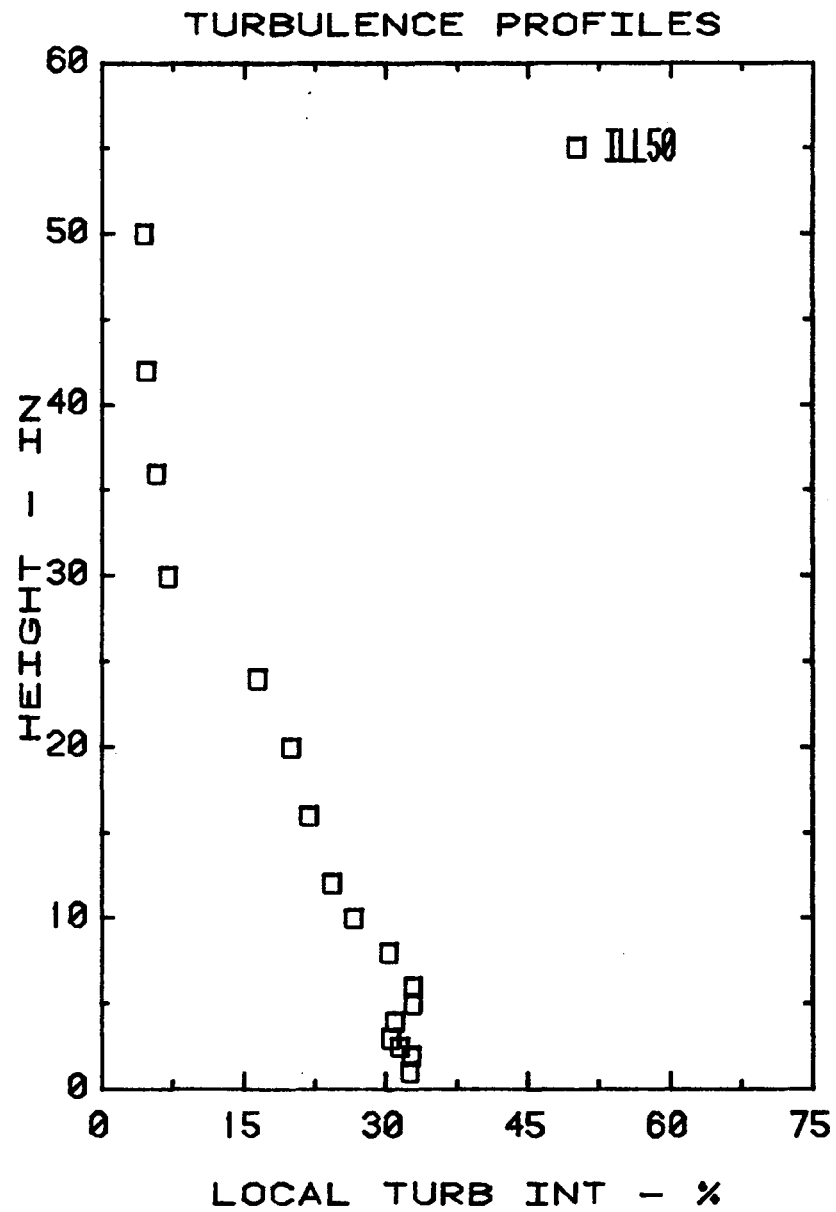
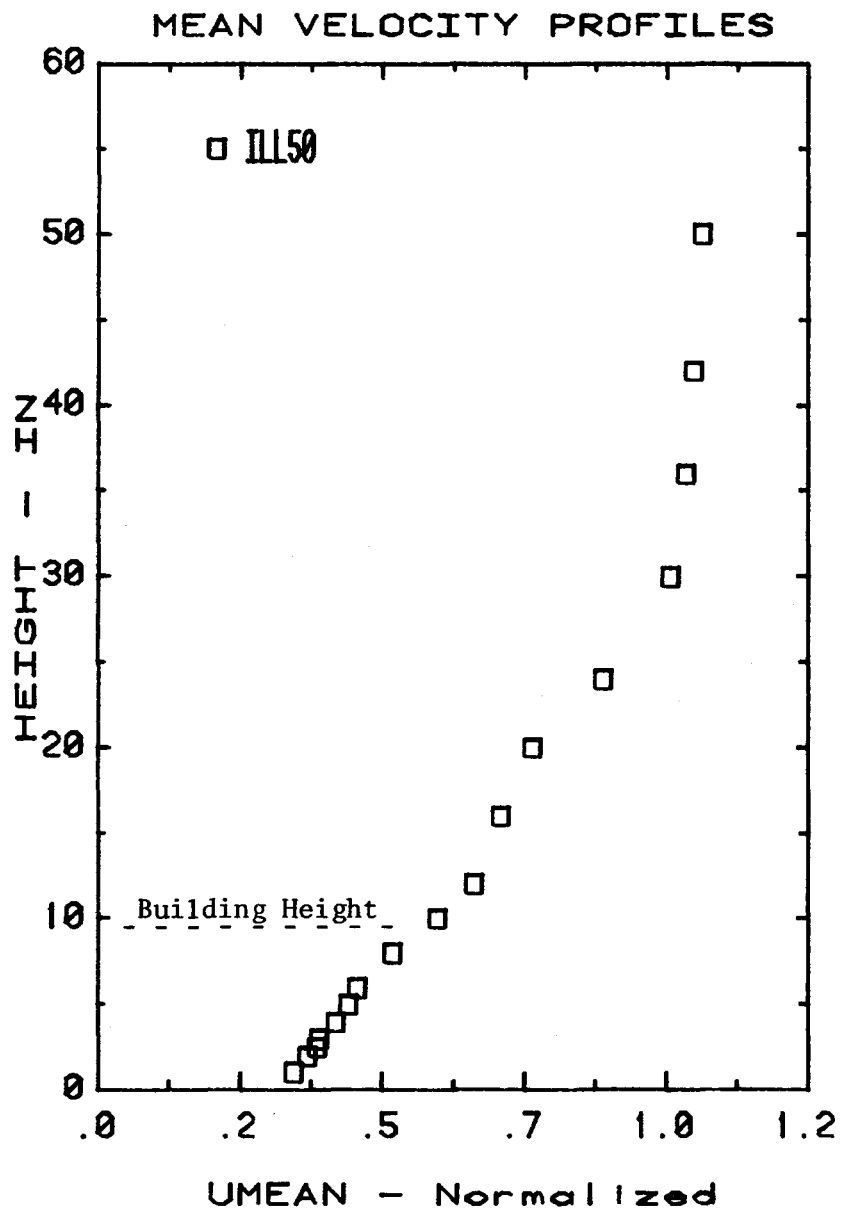


Figure 7d. Mean Velocity and Turbulence Profiles Approaching the Model

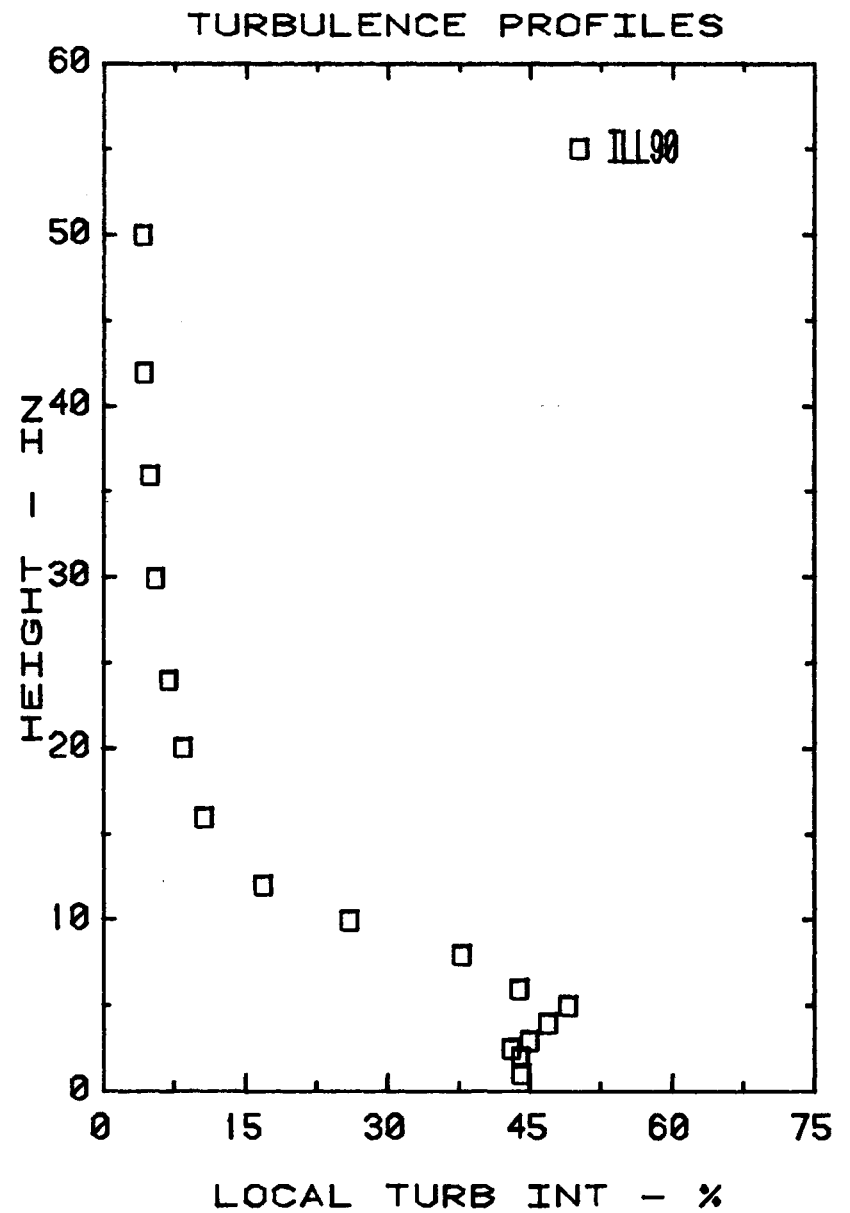
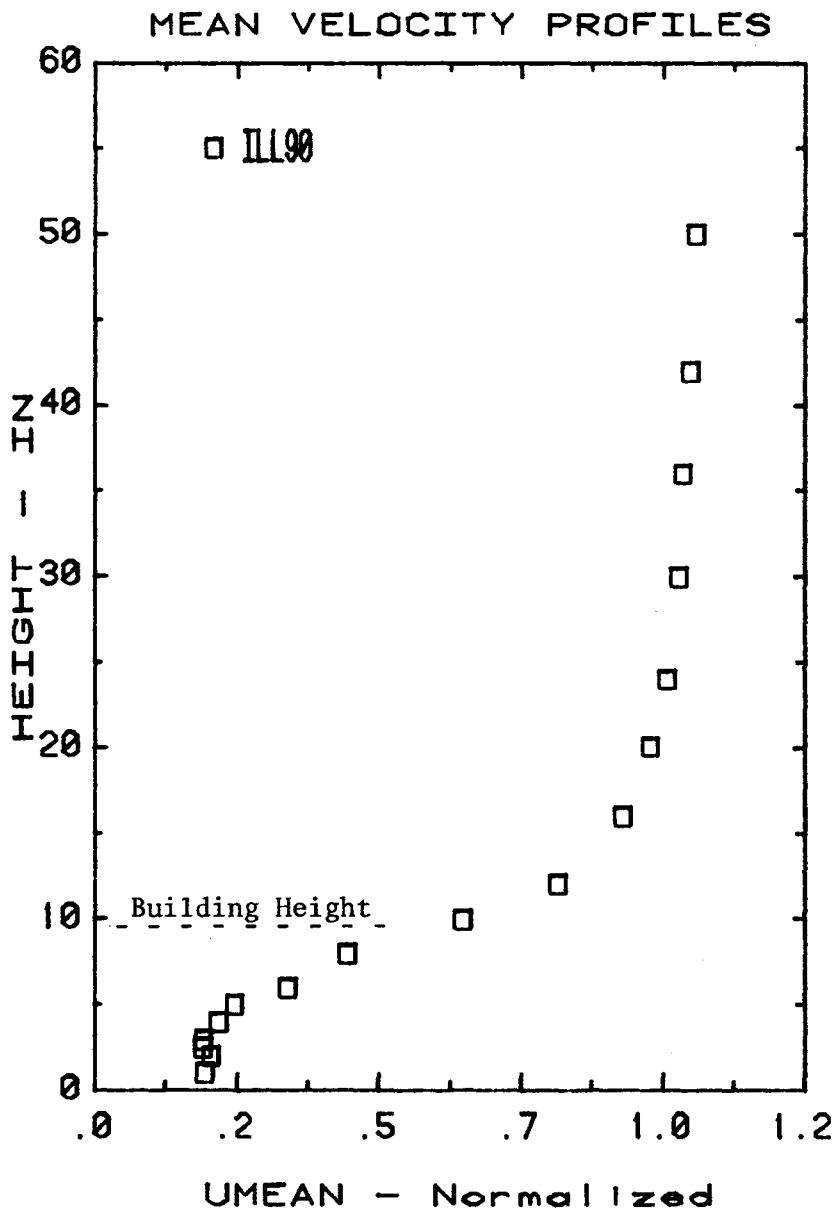


Figure 7e. Mean Velocity and Turbulence Profiles Approaching the Model

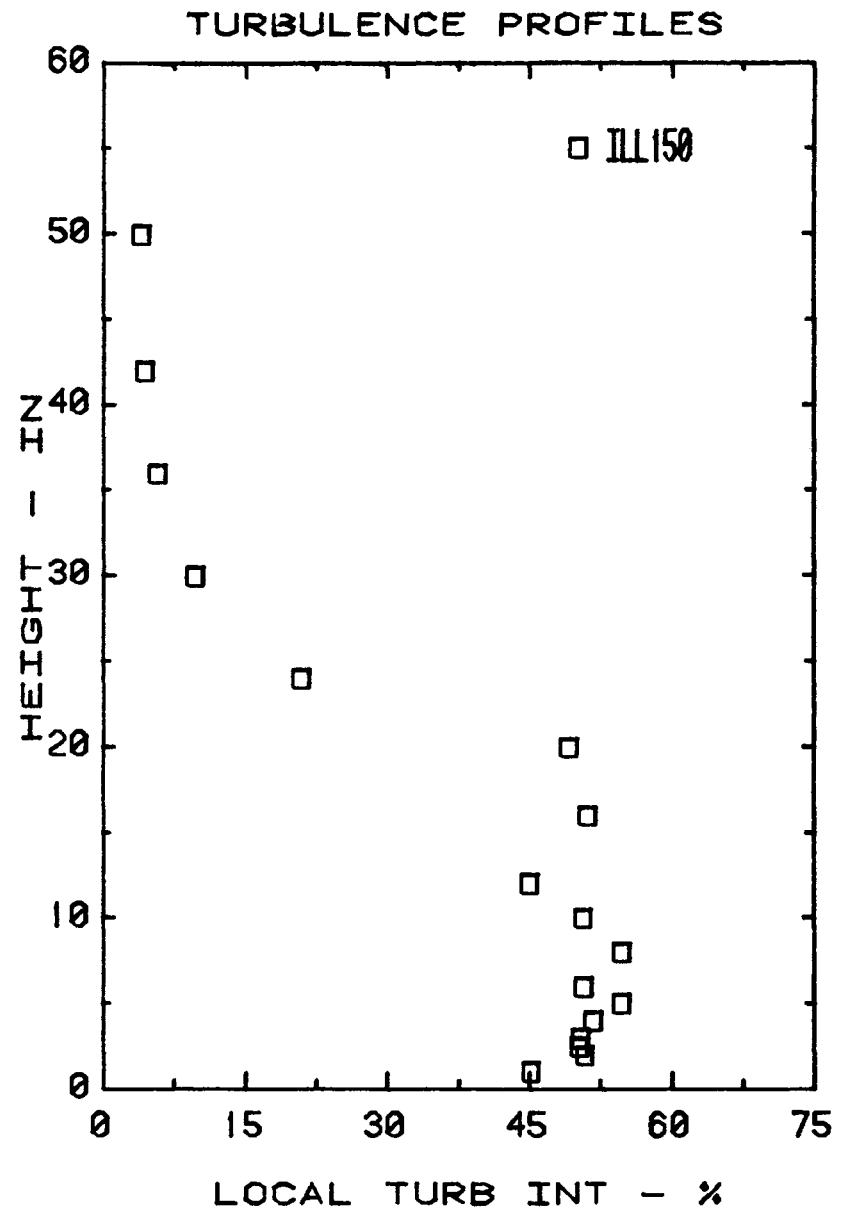
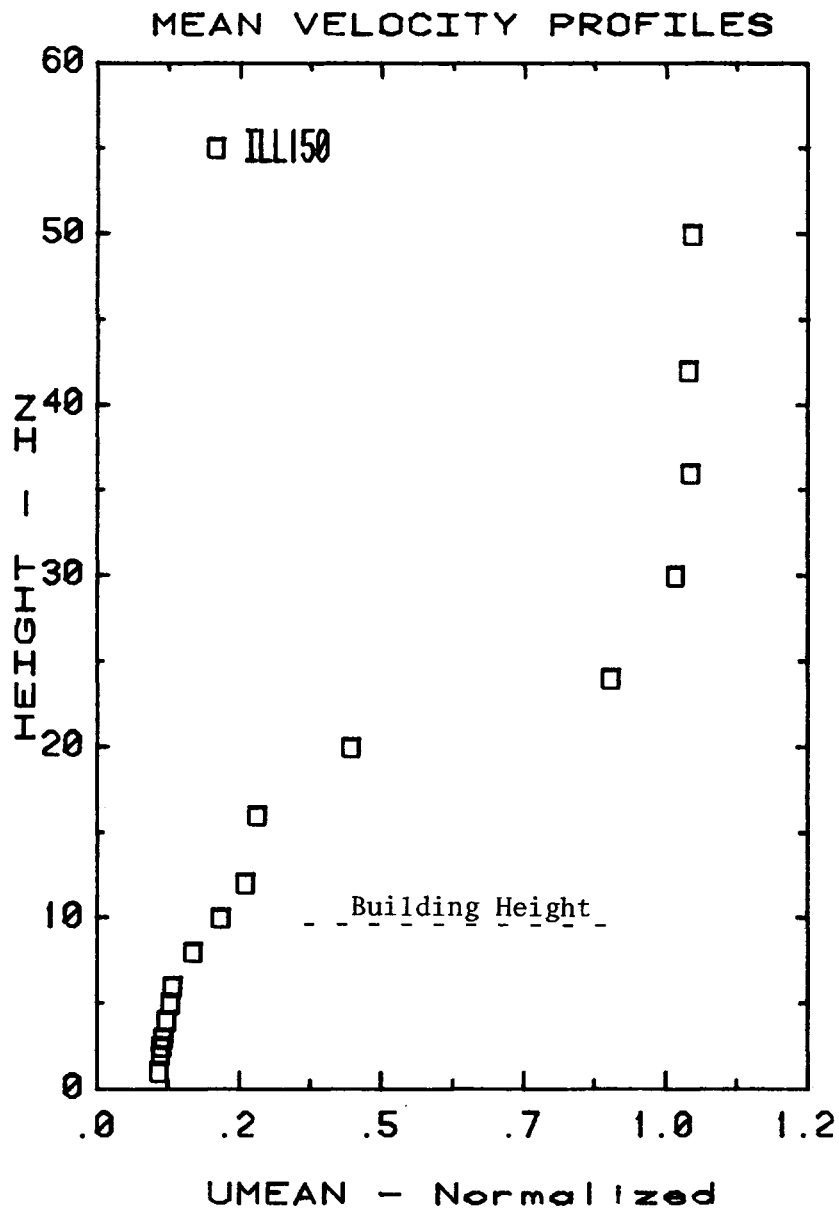


Figure 7f. Mean Velocity and Turbulence Profiles Approaching the Model

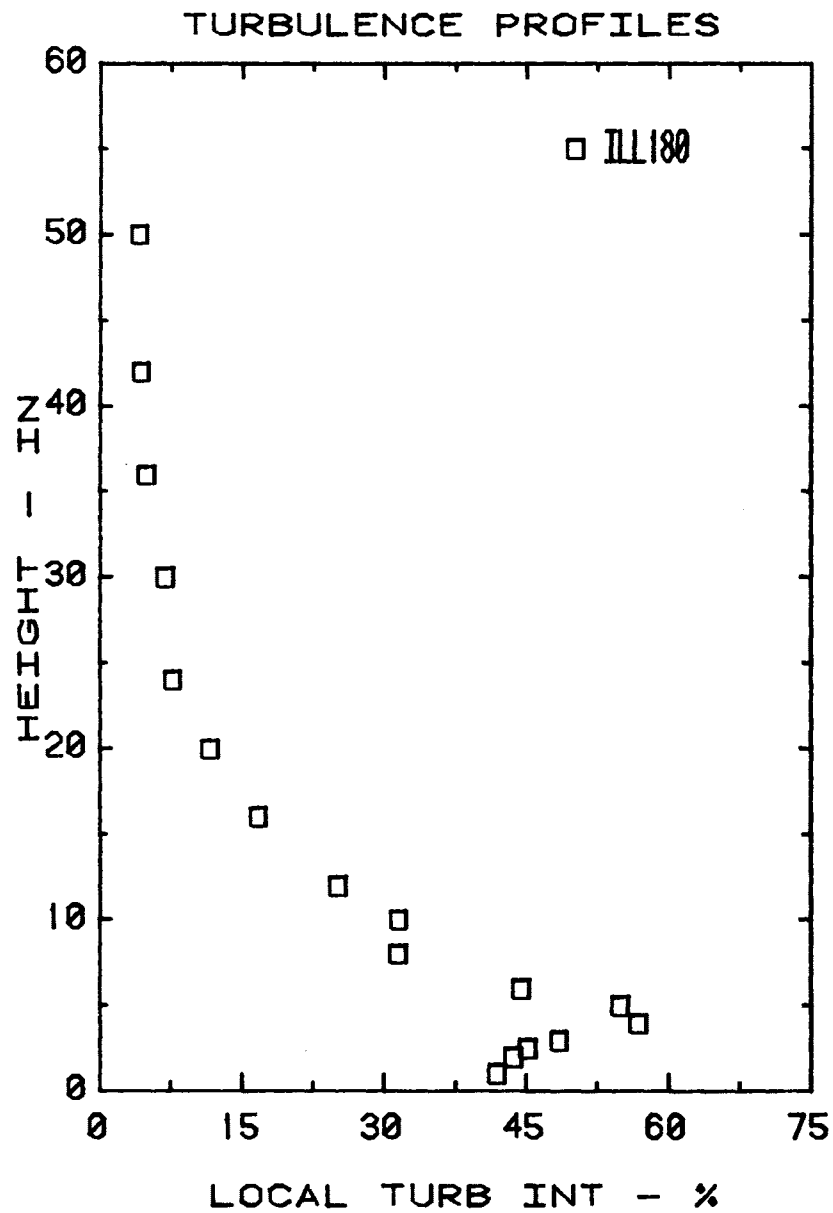
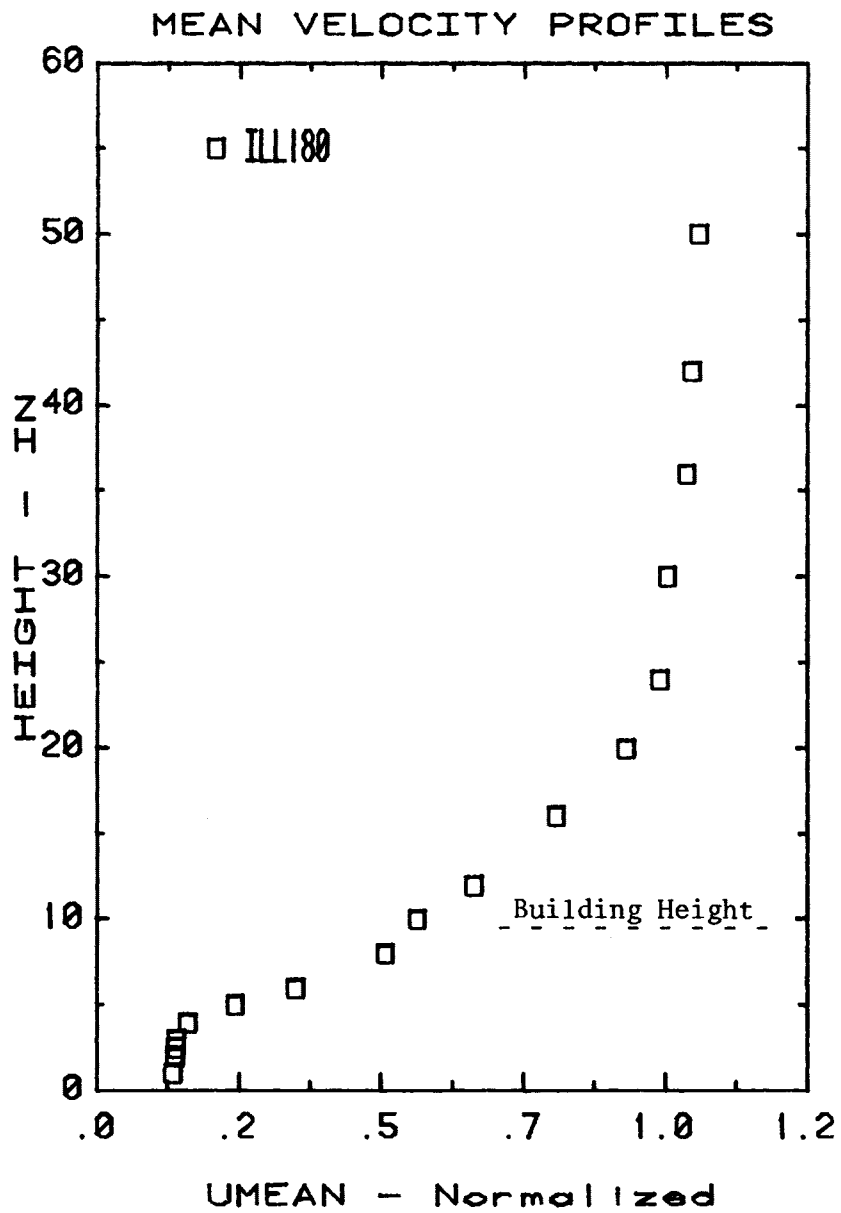


Figure 7g. Mean Velocity and Turbulence Profiles Approaching the Model

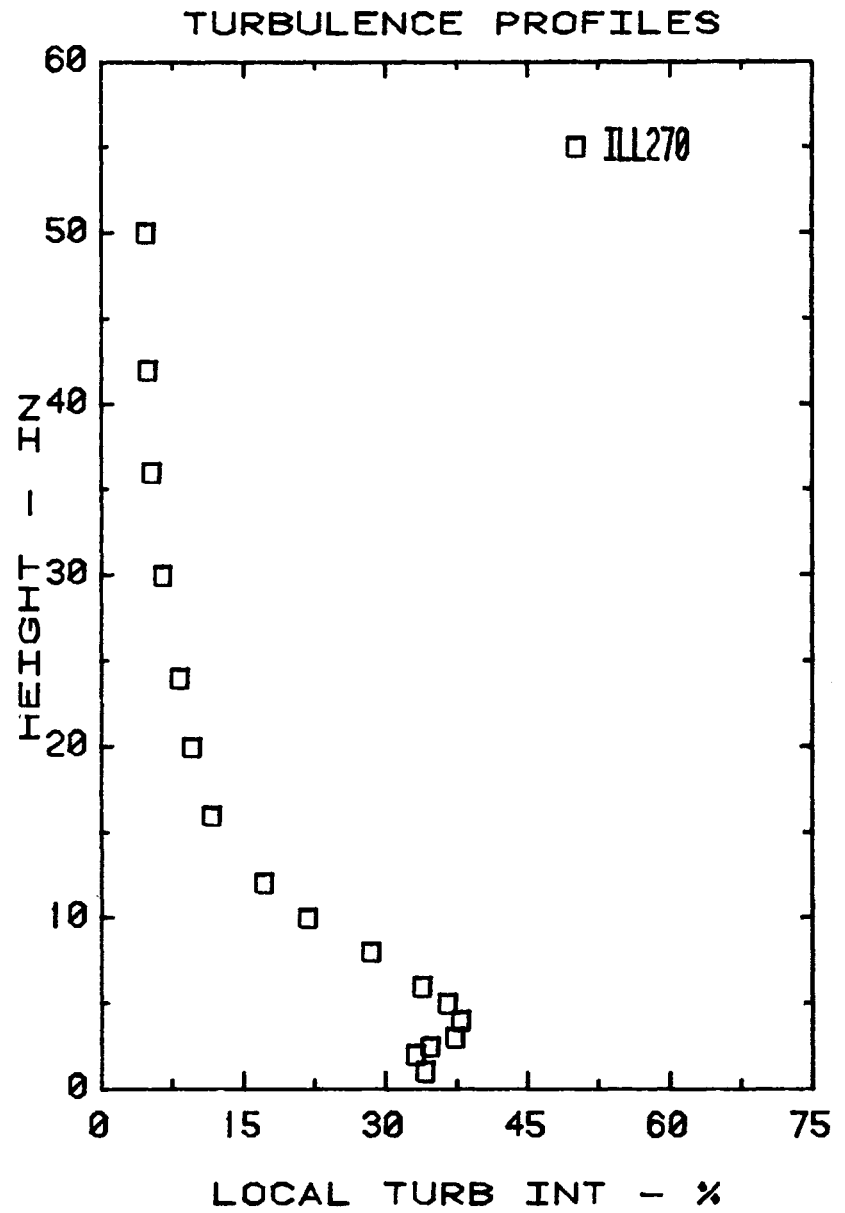
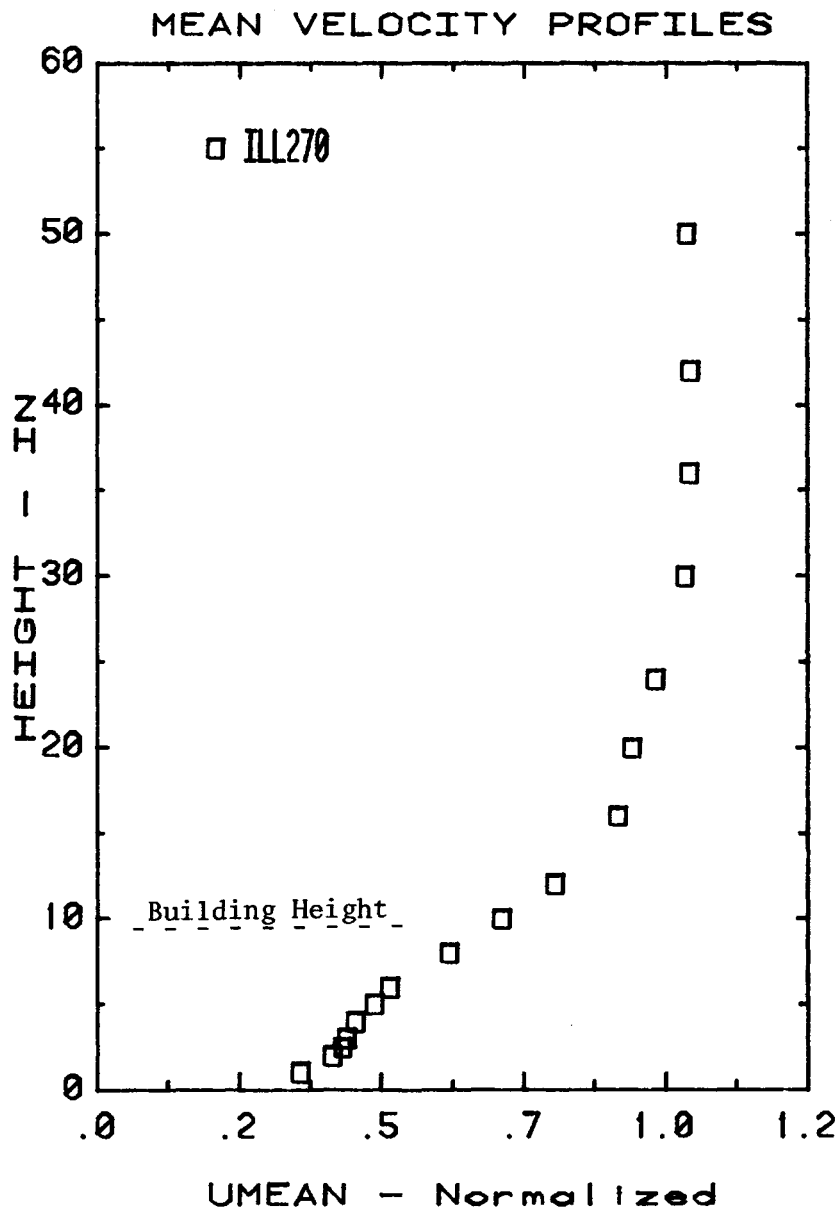


Figure 7h. Mean Velocity and Turbulence Profiles Approaching the Model

$\frac{U_{mean}}{U_{inf}}$ _____

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

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

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

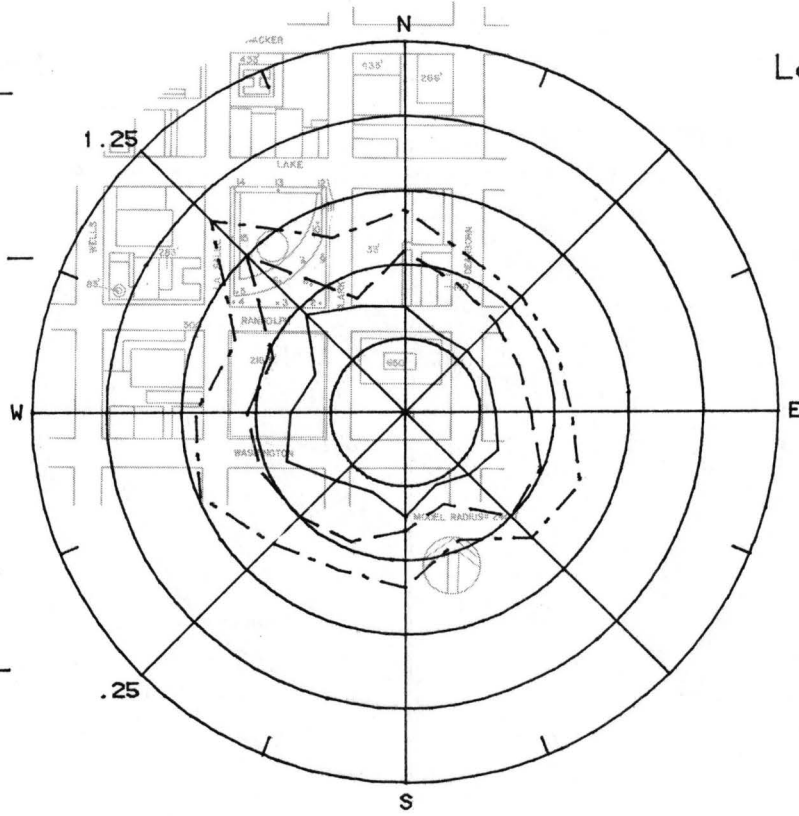
.25/Div

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

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

.05/Div

Location 1



$\frac{U_{mean}}{U_{inf}}$ _____

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

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

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

.25/Div

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

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

.05/Div

Location 2

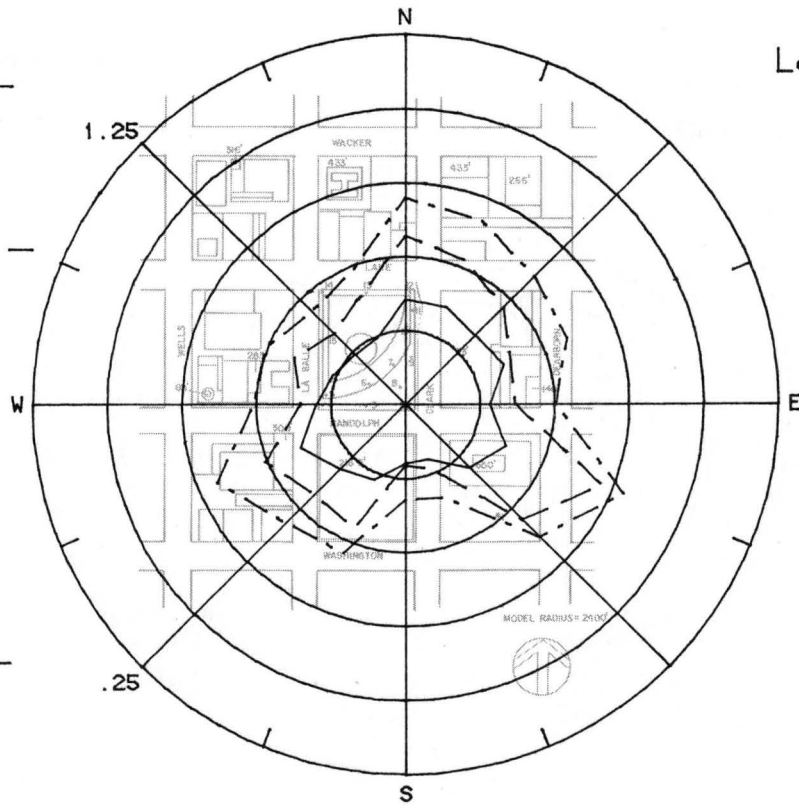


Figure 8a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2

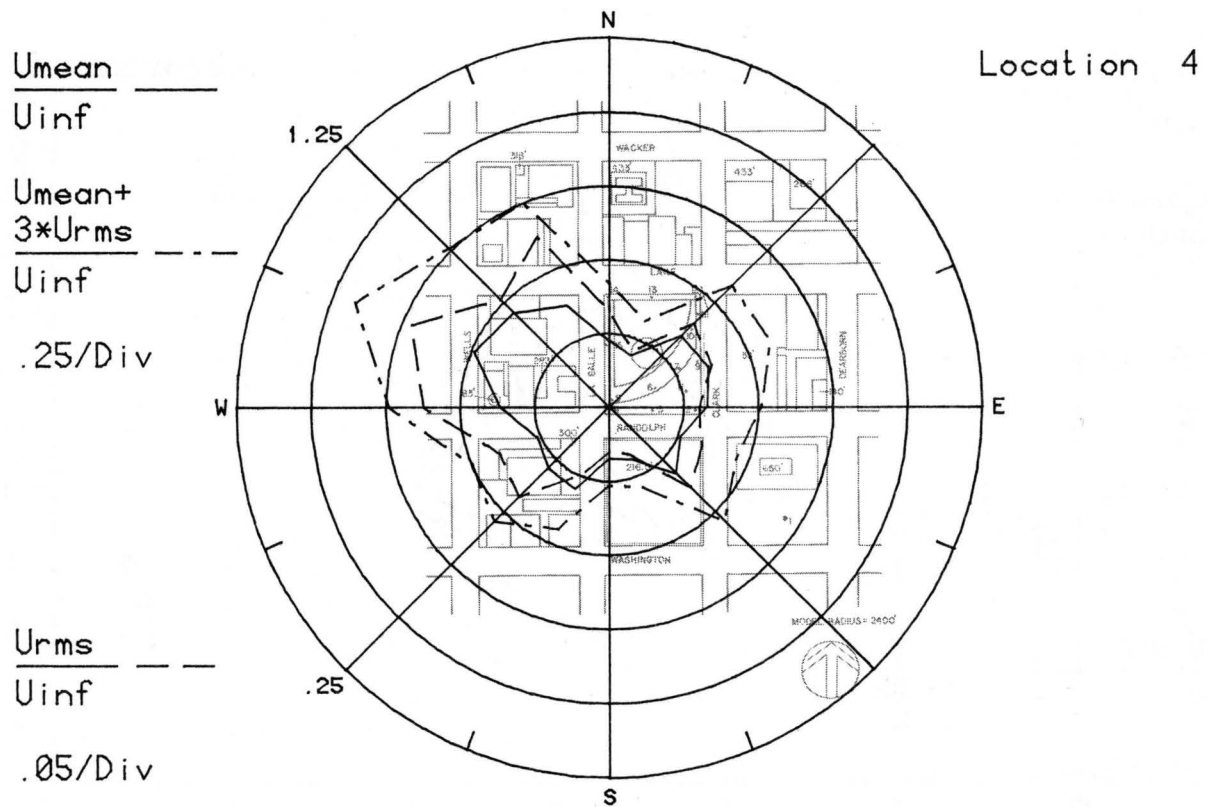
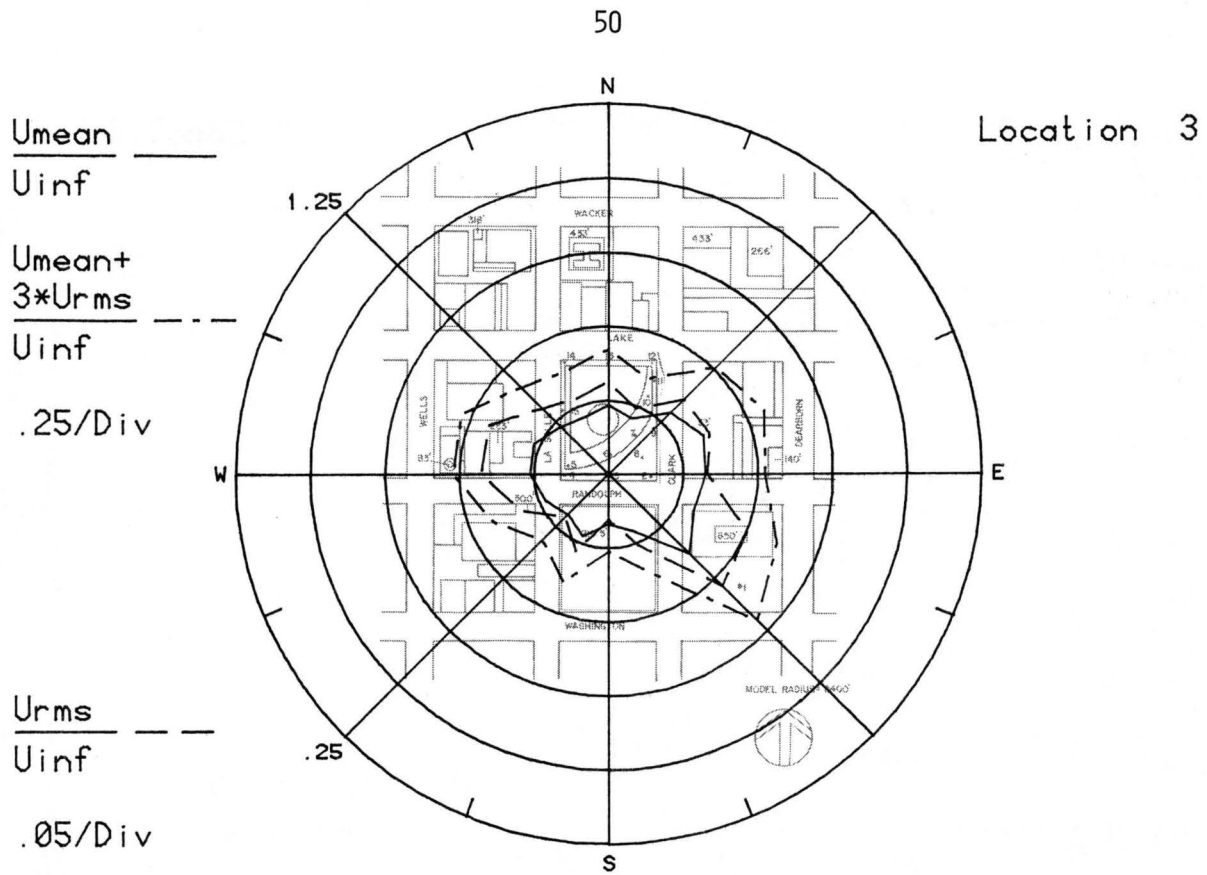


Figure 8b. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

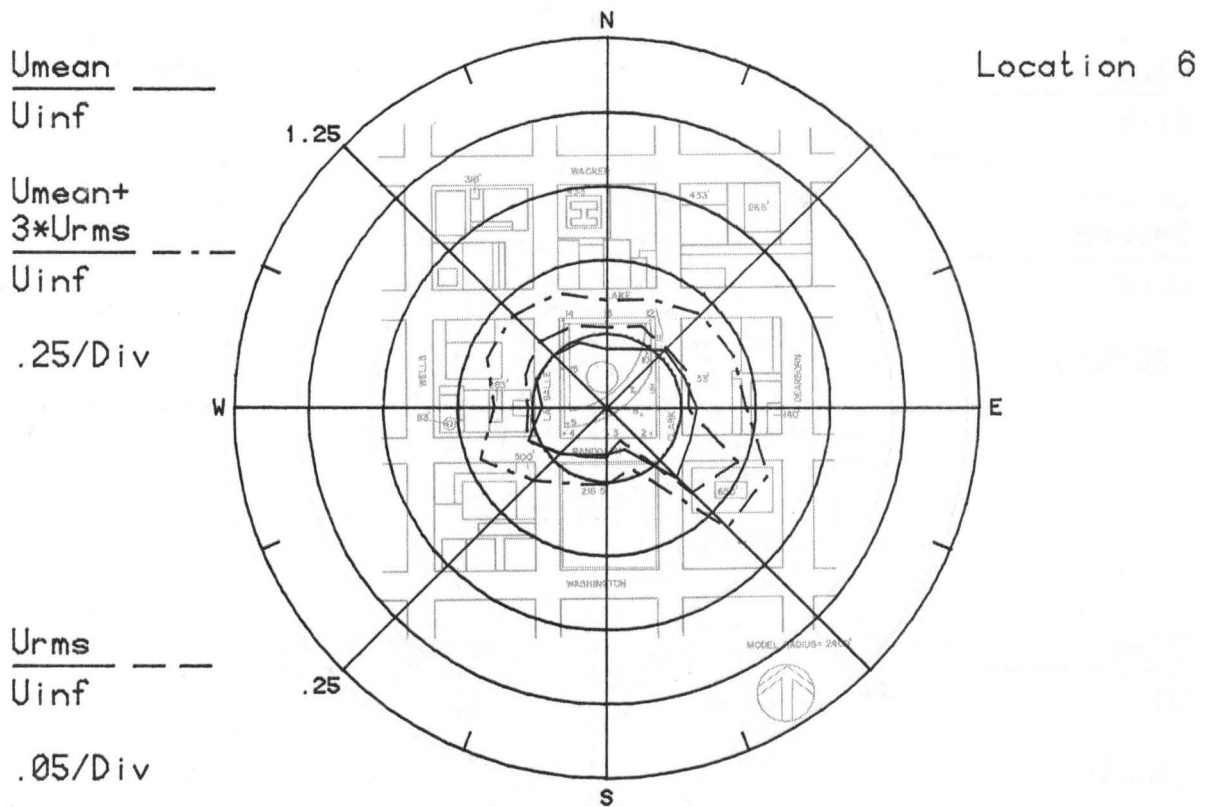
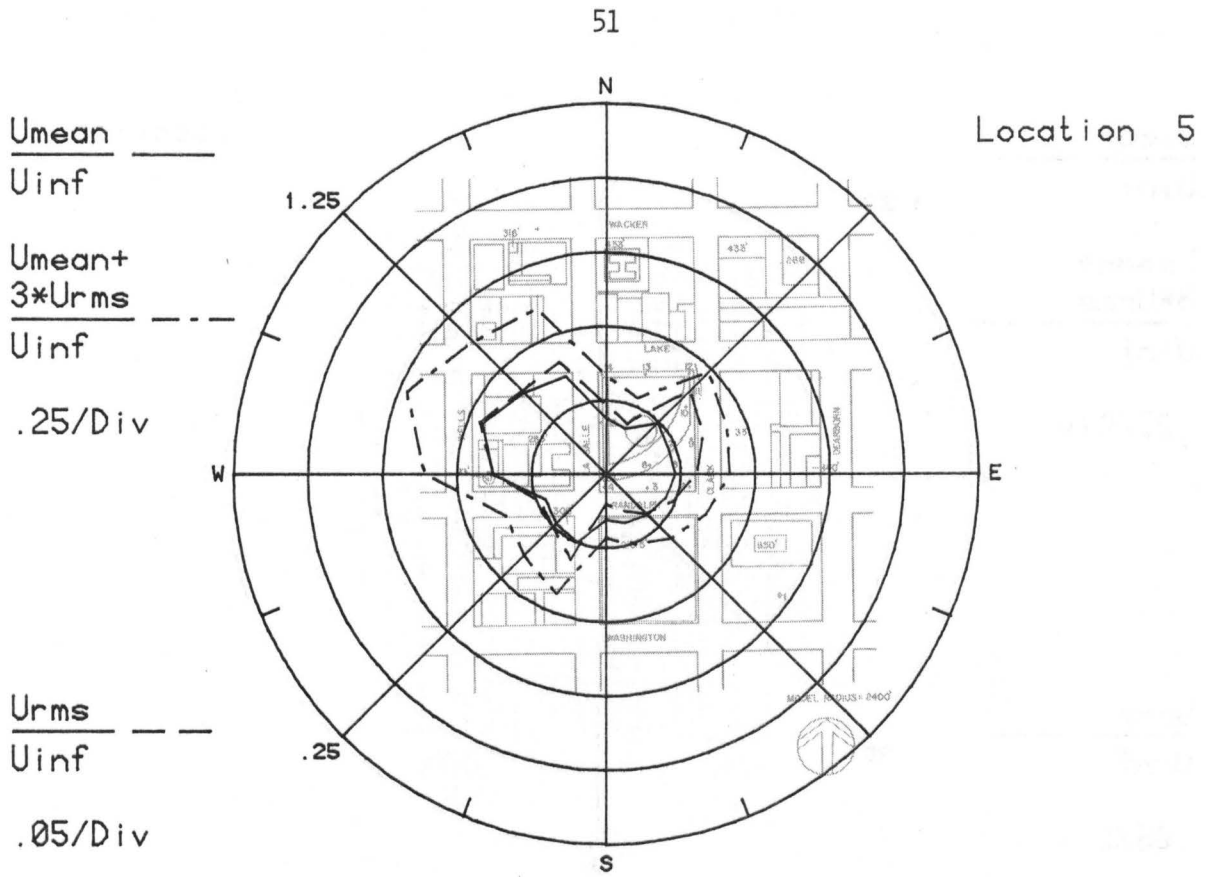


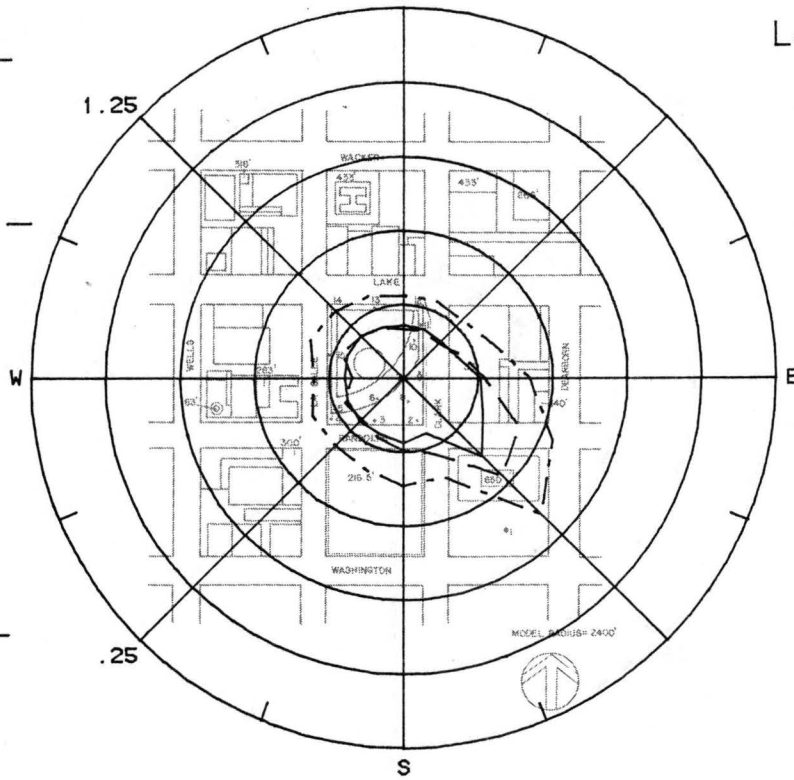
Figure 8c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

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

Location 7

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

.25/Div



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

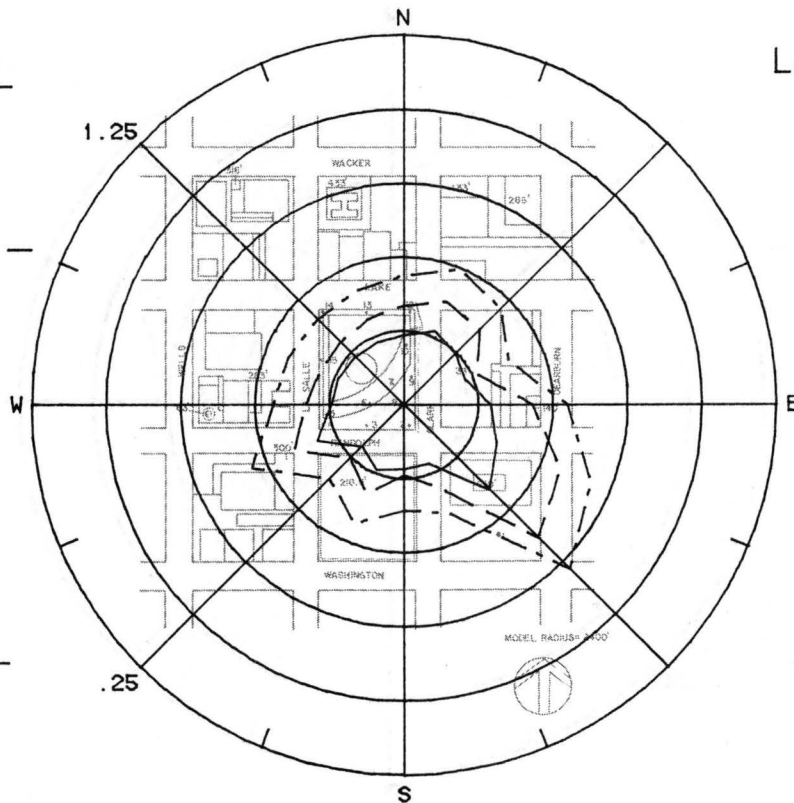
.05/Div

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

Location 8

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

.25/Div



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

.05/Div

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

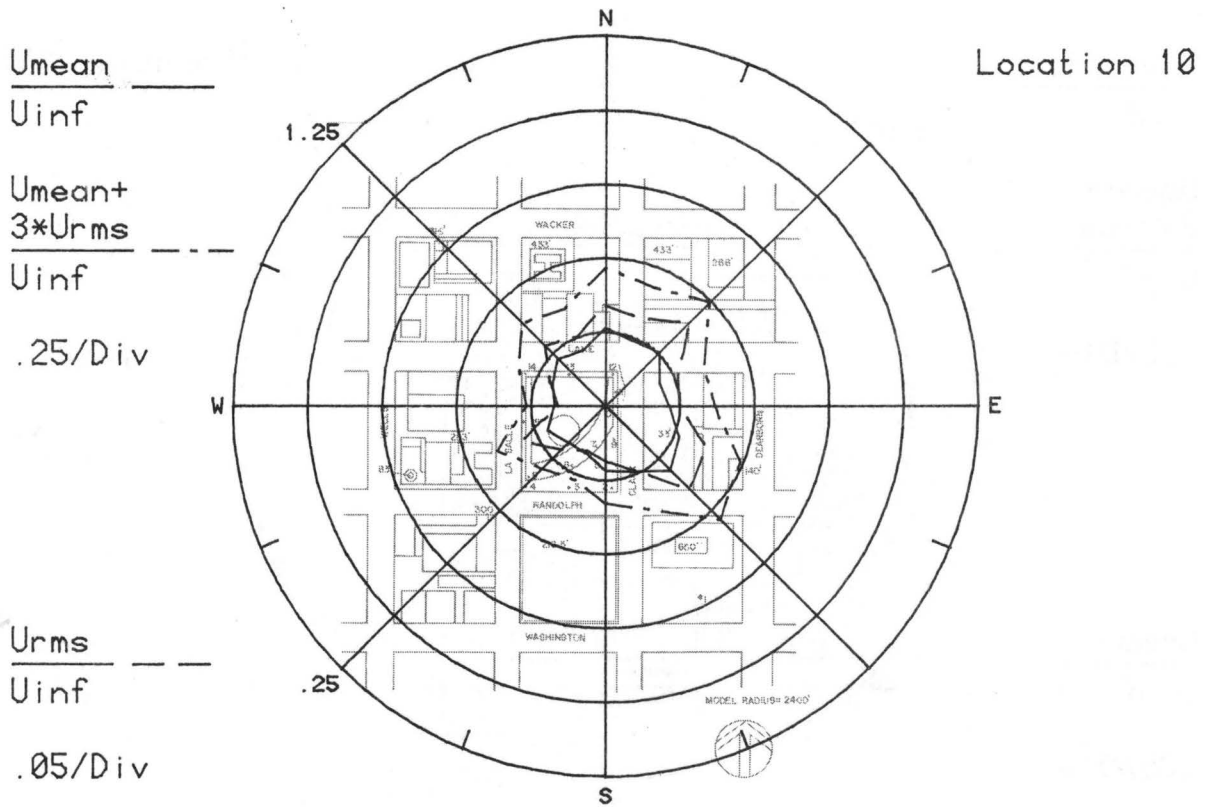
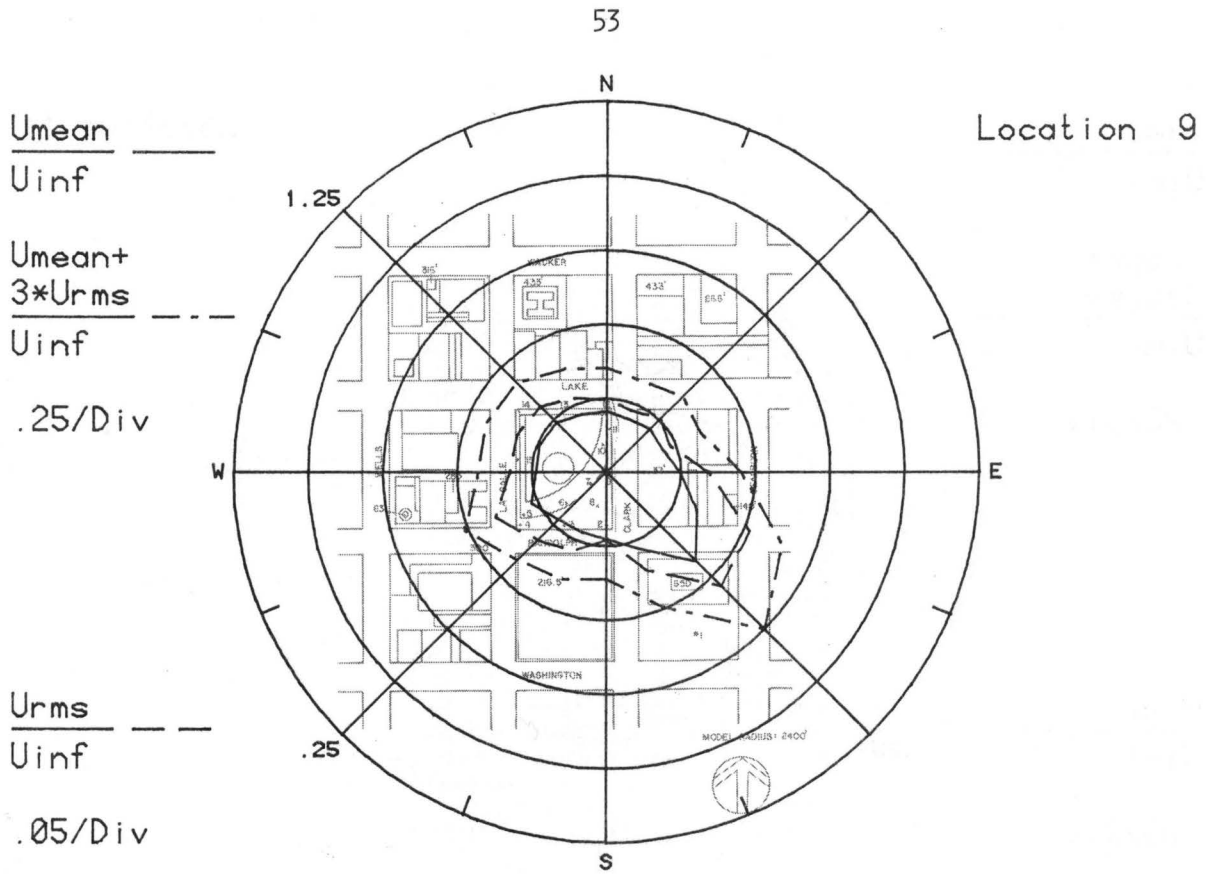


Figure 8e. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

$\frac{U_{mean}}{U_{inf}}$ _____

U_{inf}

1.25

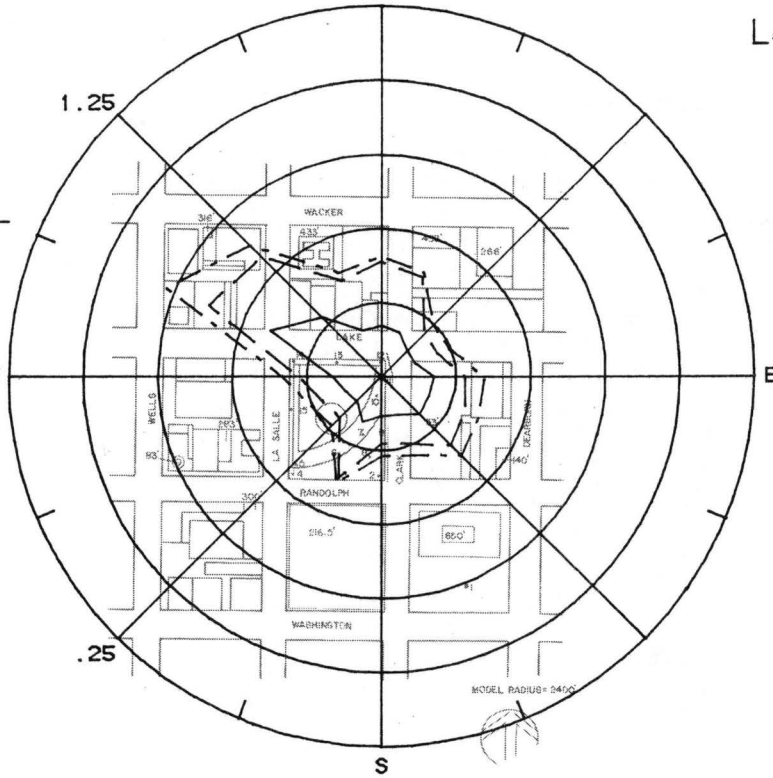
$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - - -

U_{inf}

.25/Div

W

Location 11



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

U_{inf}

.25

.05/Div

S

$\frac{U_{mean}}{U_{inf}}$ _____

U_{inf}

1.25

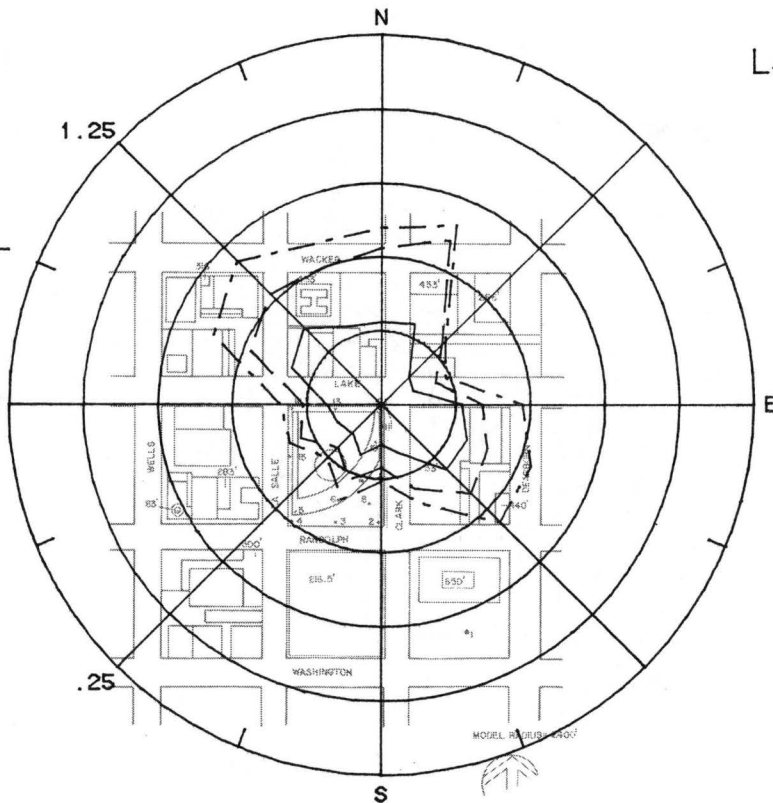
$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - - -

U_{inf}

.25/Div

W

Location 12



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

U_{inf}

.25

.05/Div

S

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

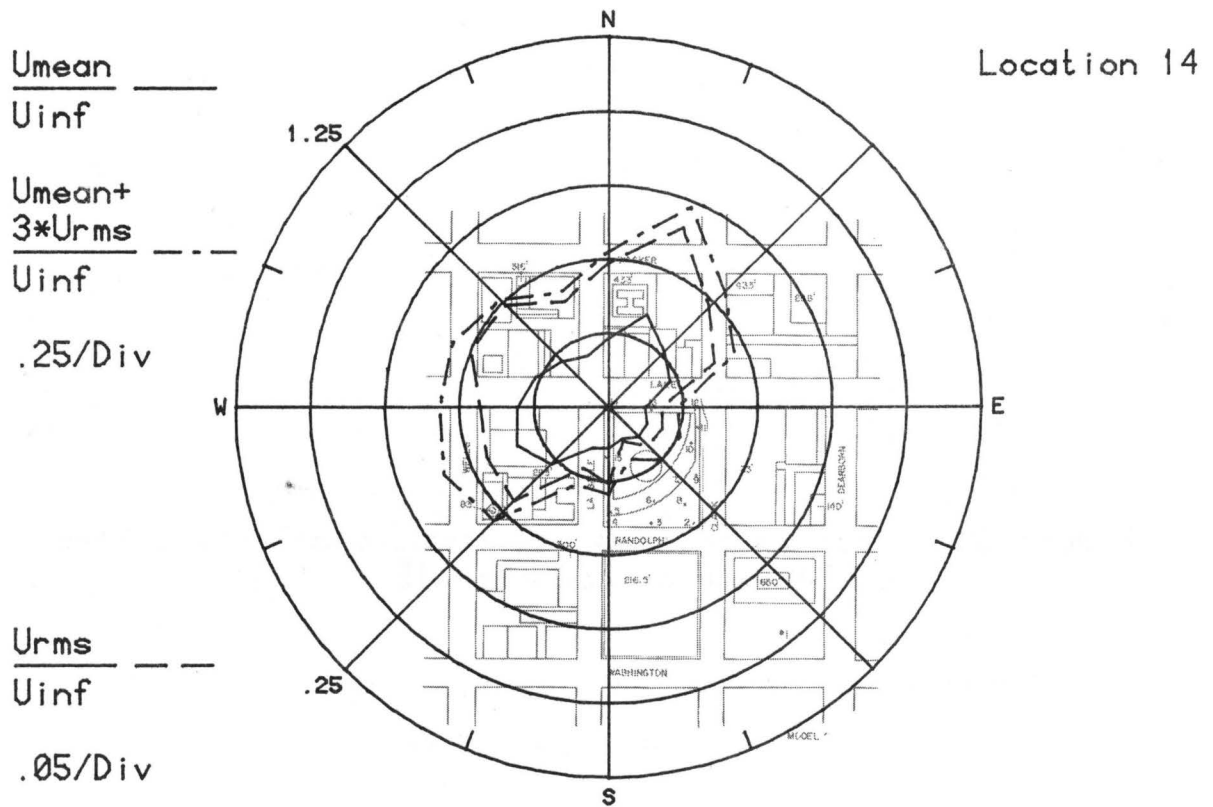
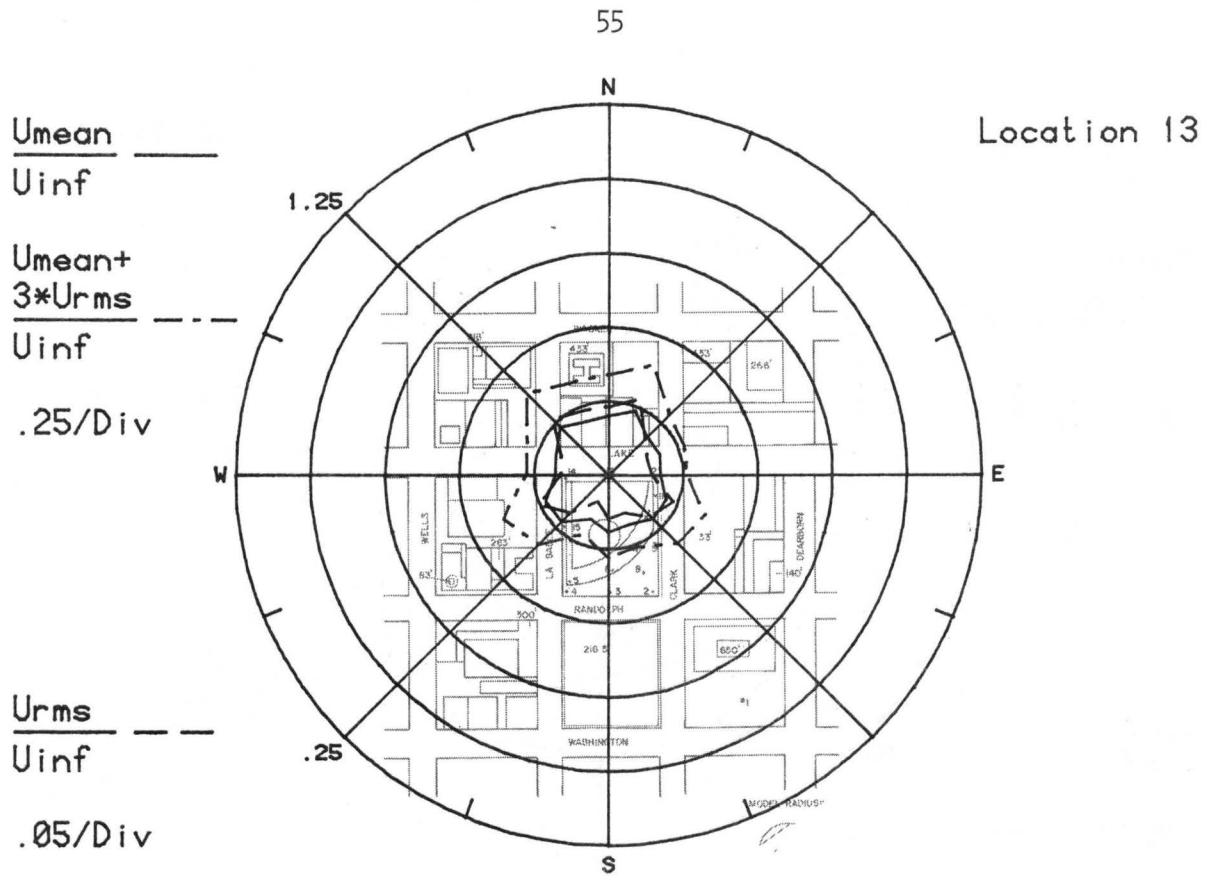


Figure 8g. Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

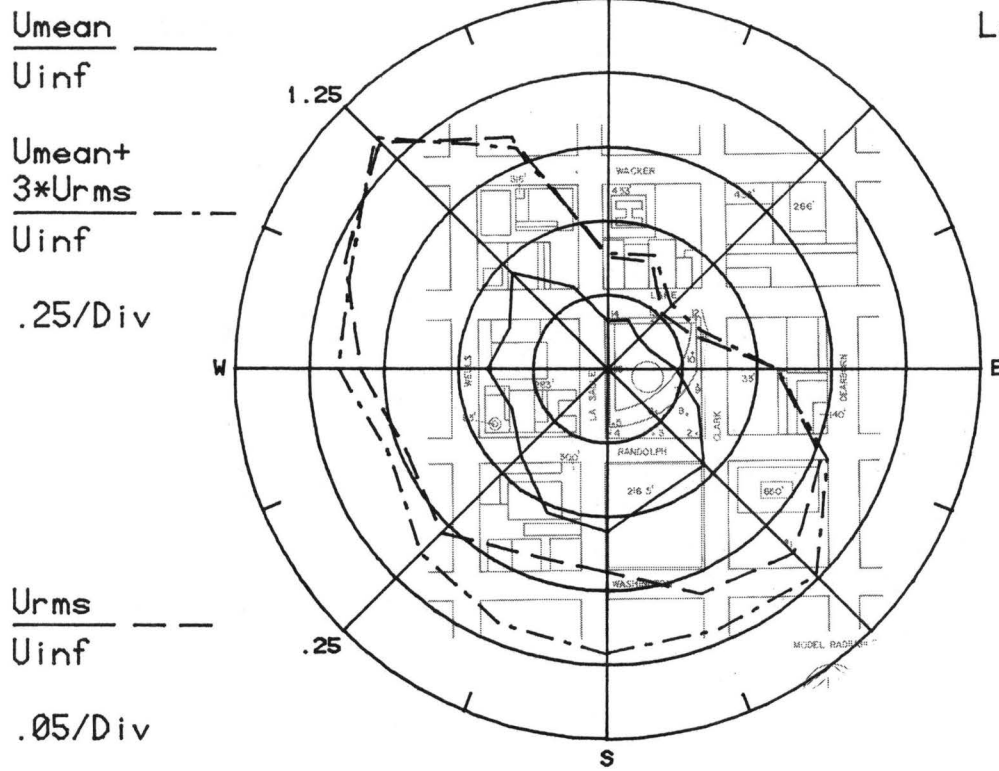


Figure 8h. Mean Velocities and Turbulence Intensities at Pedestrian Location 15

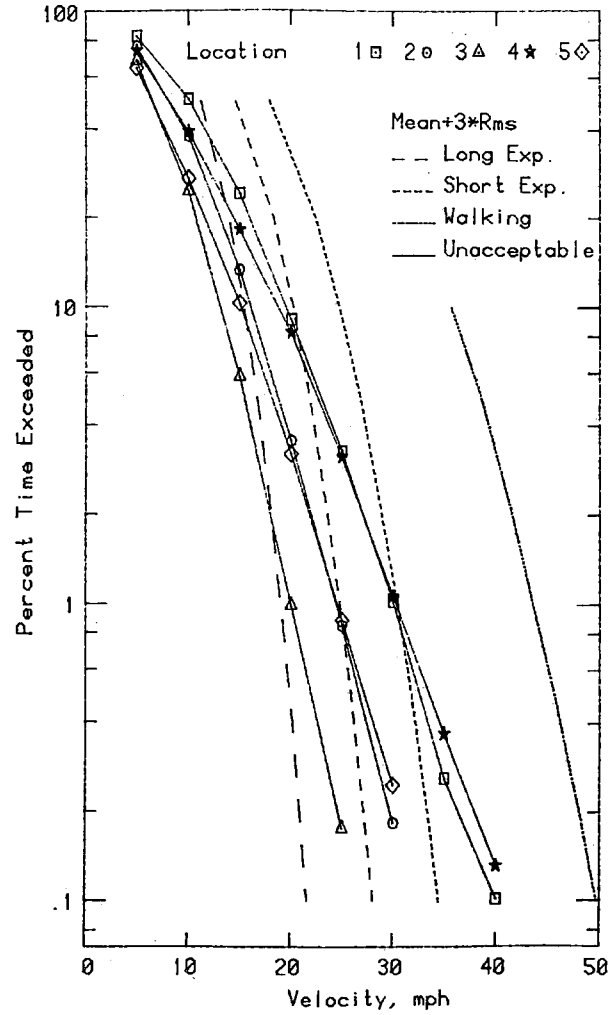
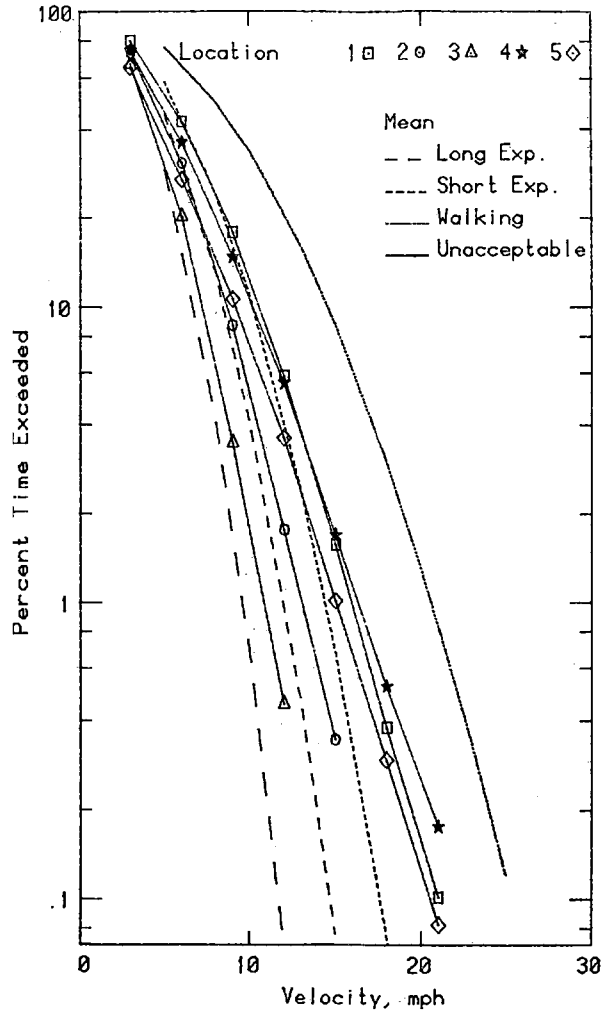


Figure 9a. Wind Velocity Probabilities for Pedestrian Locations

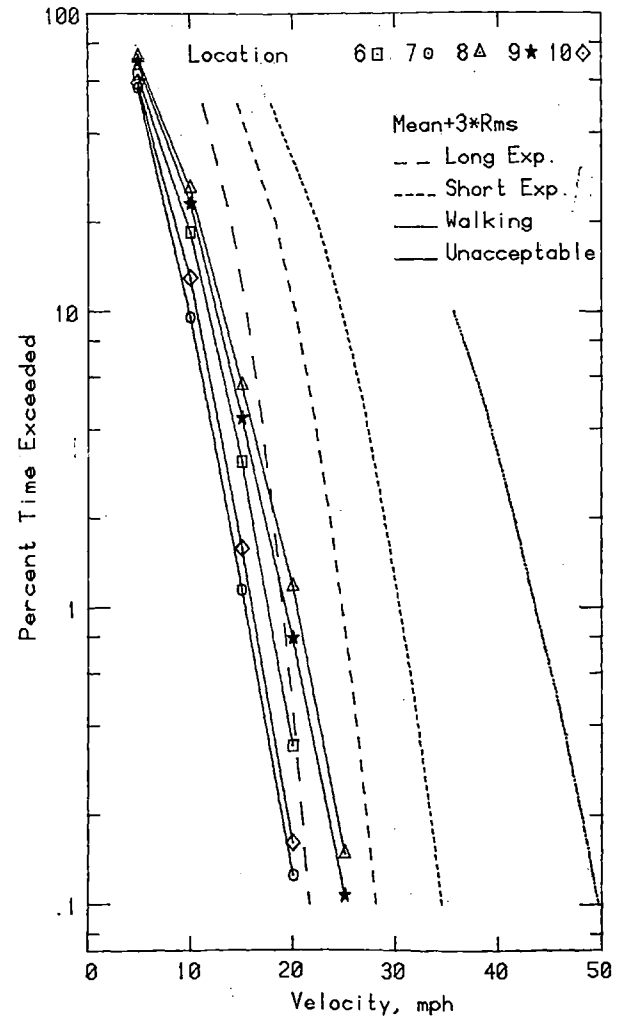
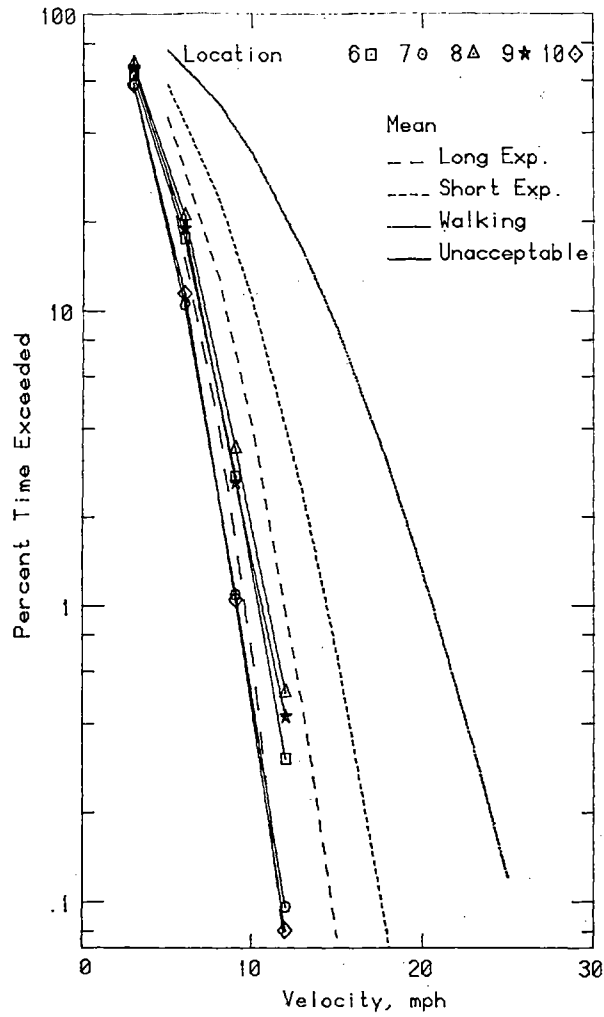


Figure 9b. Wind Velocity Probabilities for Pedestrian Locations

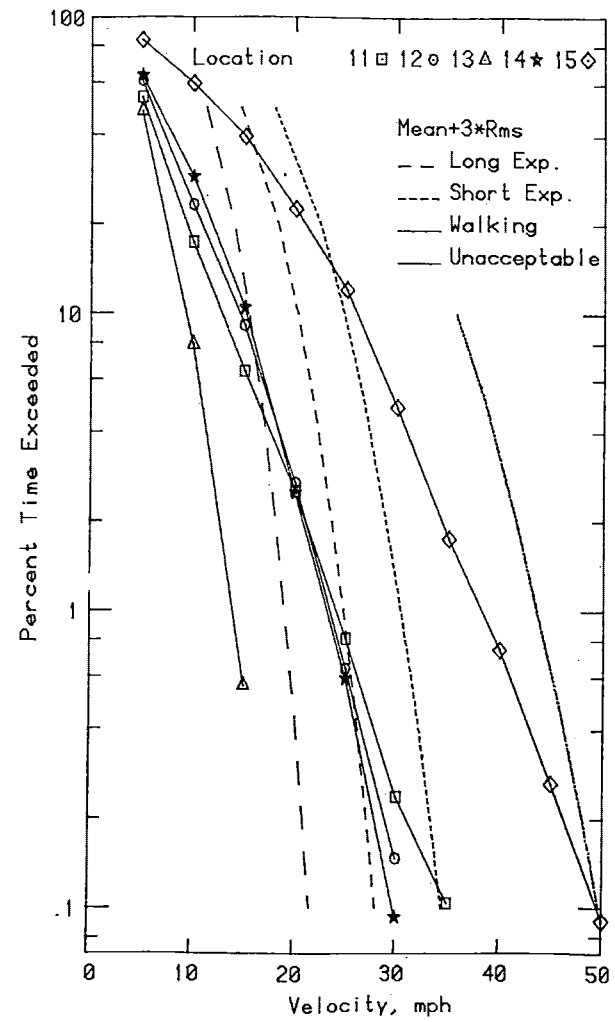
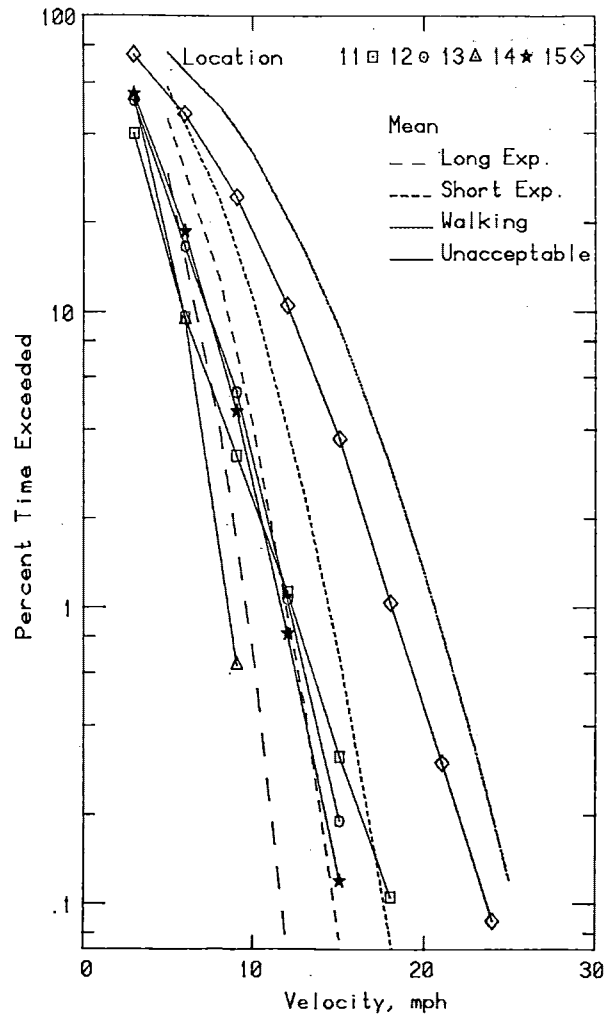
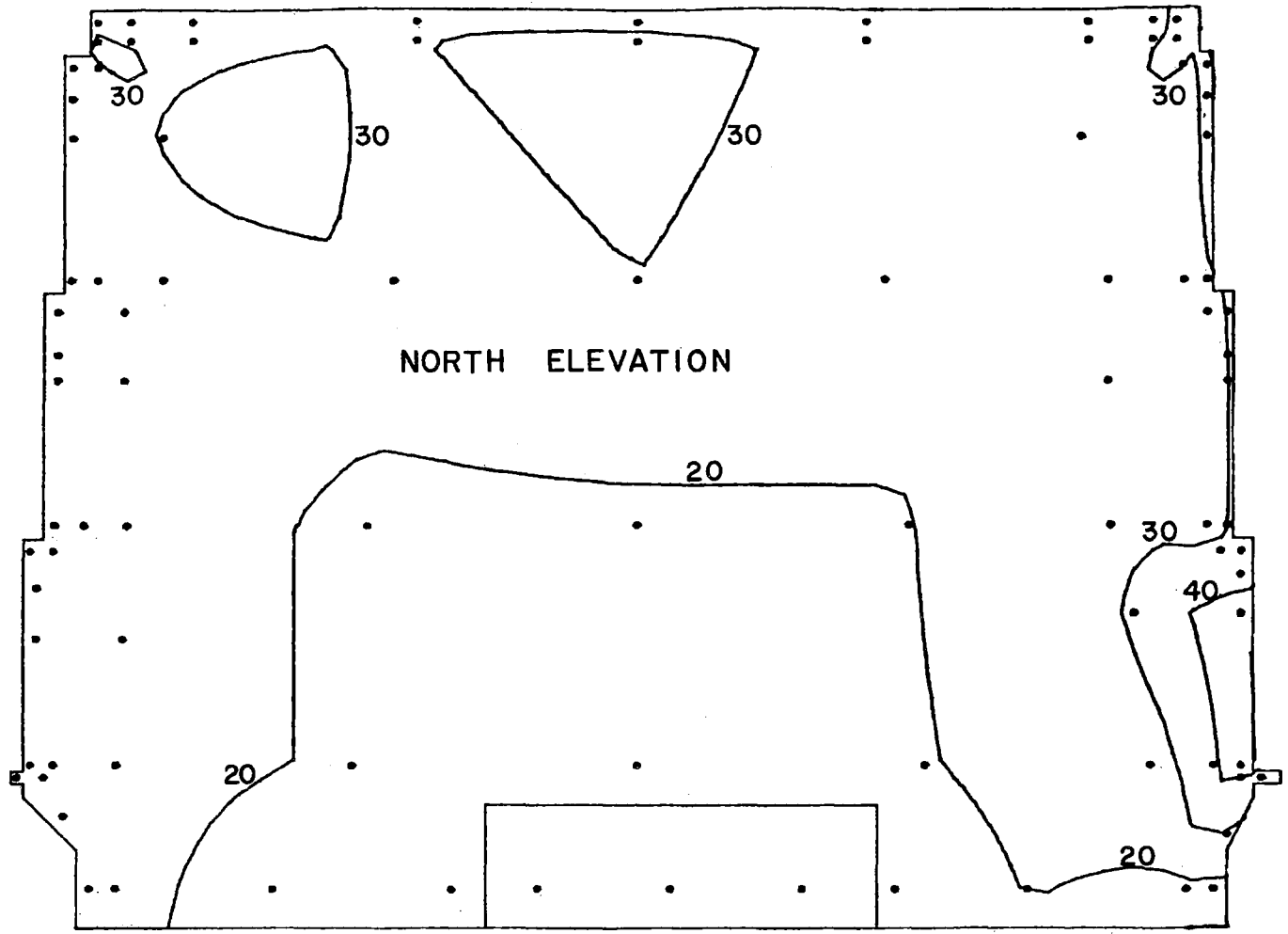
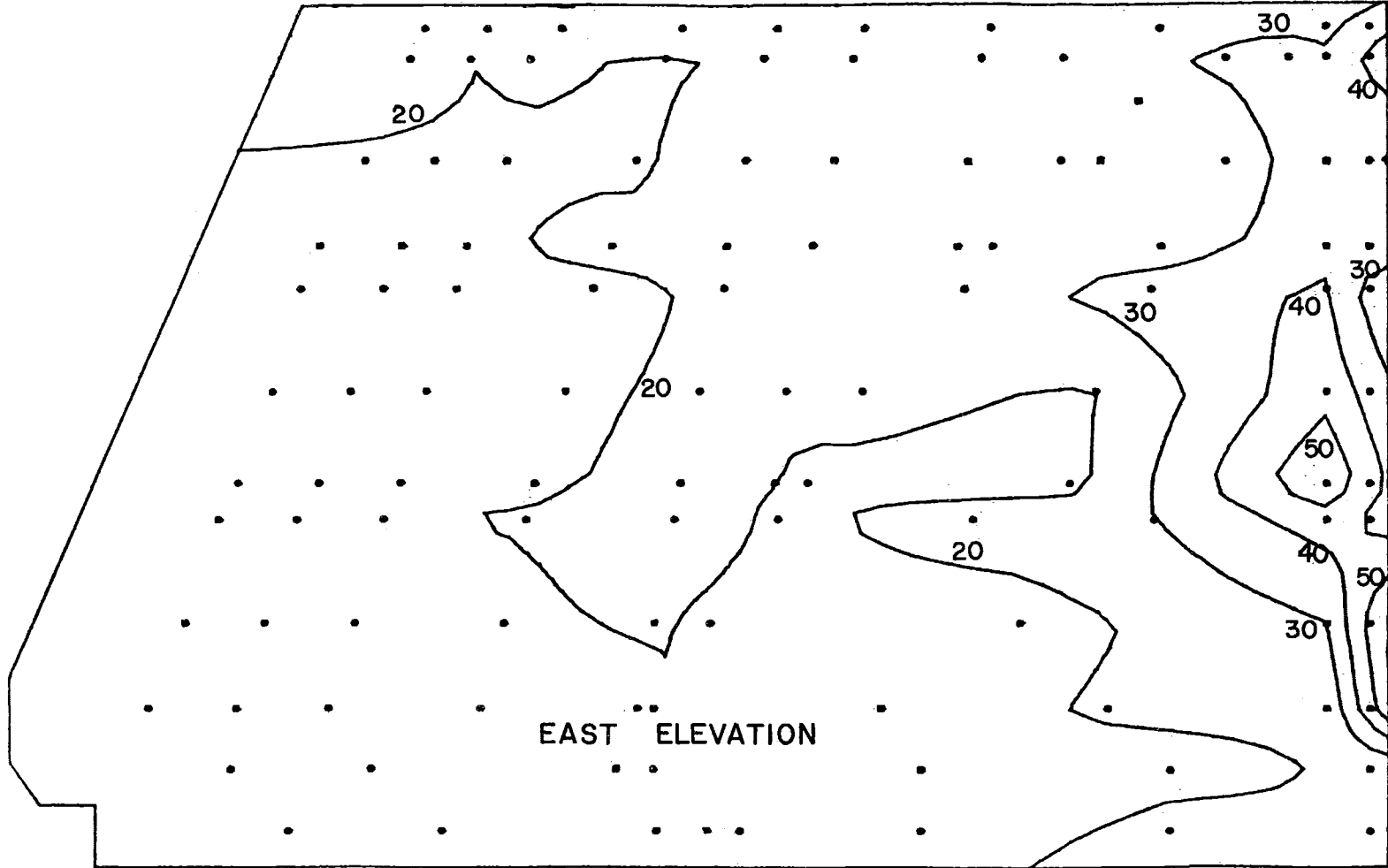


Figure 9c. Wind Velocity Probabilities for Pedestrian Locations



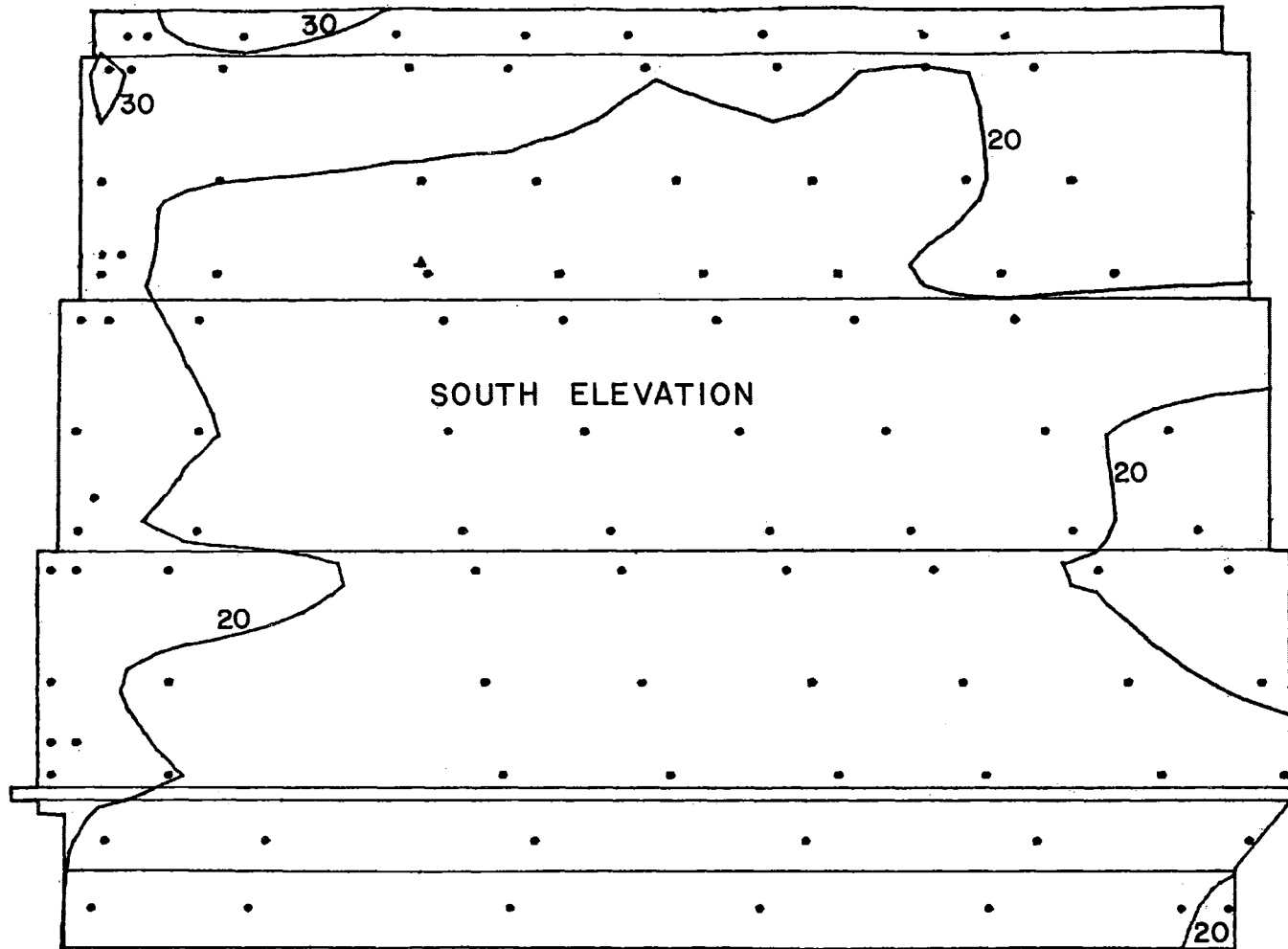
Cladding Loads
Reference Pressure = 29 psf

FIGURE 10a PEAK PRESSURE LOADS ON THE BUILDING.



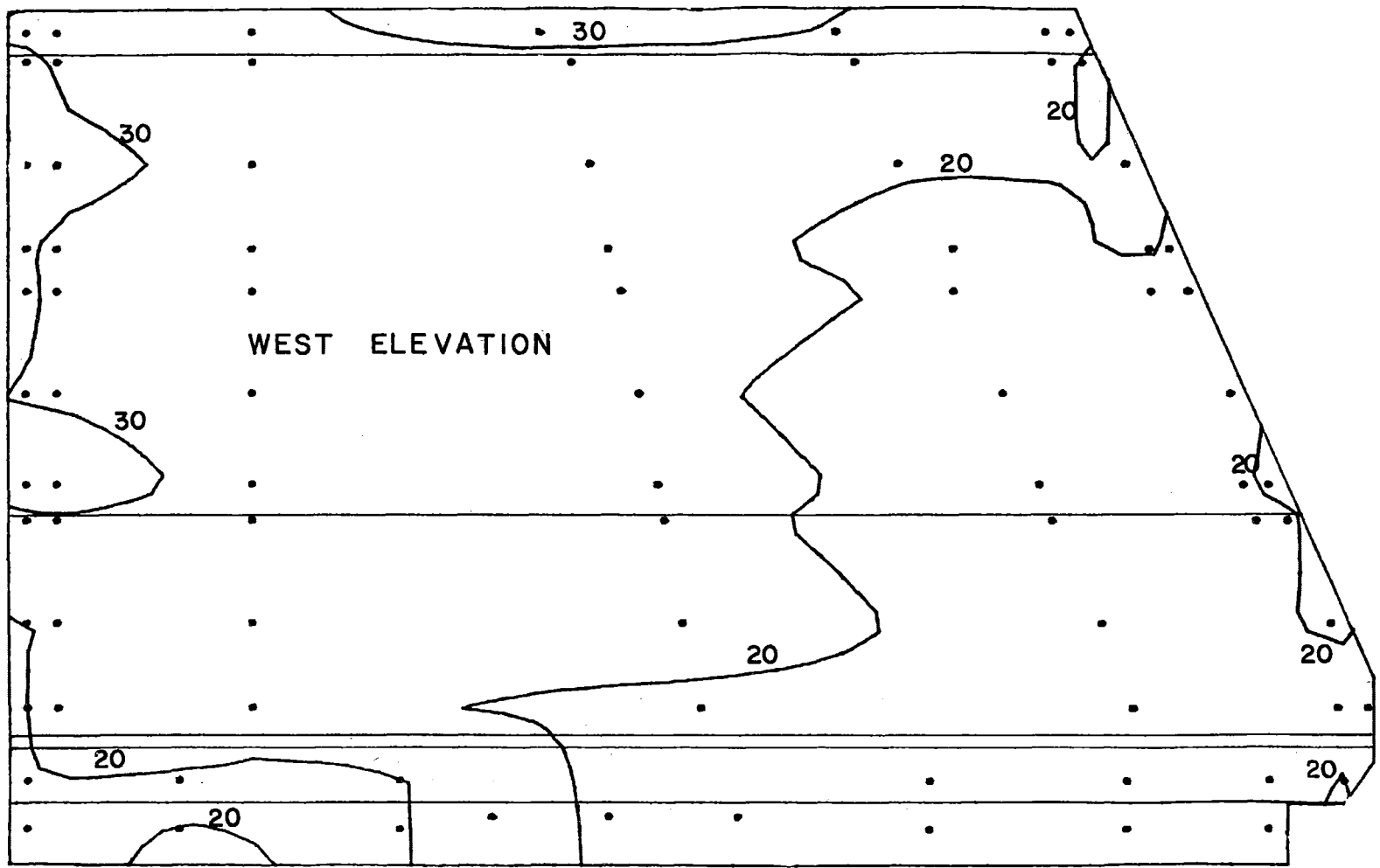
Cladding Loads
Reference Pressure = 29 psf

FIGURE 10b PEAK PRESSURE LOADS ON THE BUILDING.



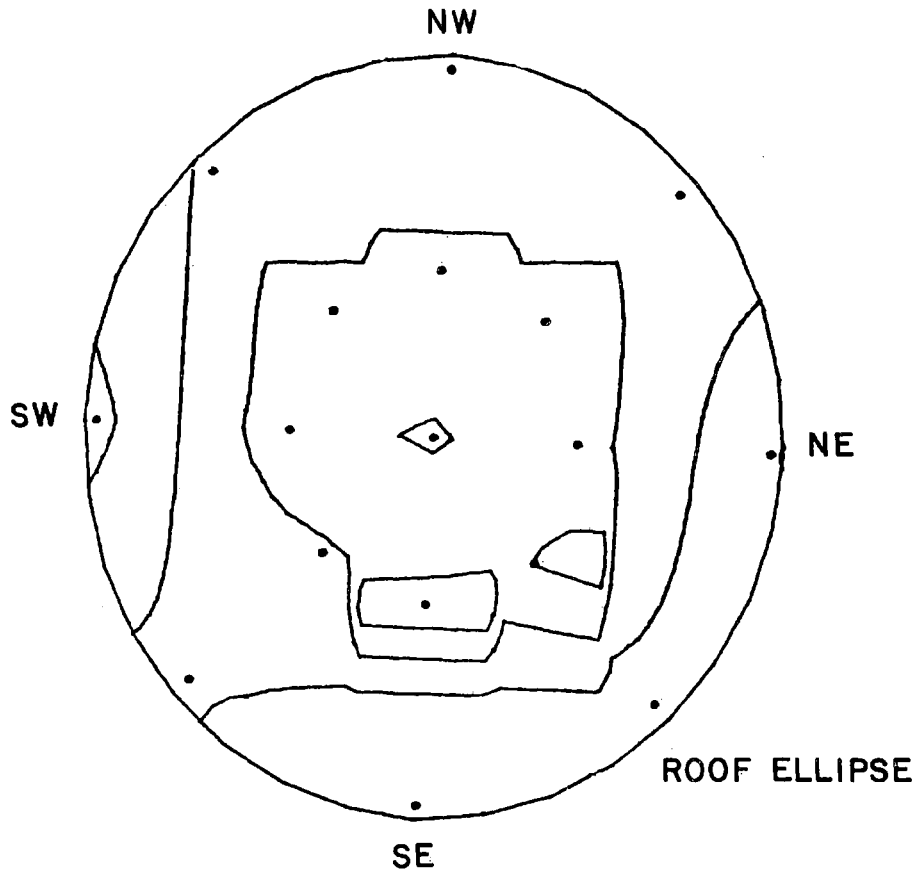
Cladding Loads
Reference Pressure = 29 psf

FIGURE 10c PEAK PRESSURE LOADS ON THE BUILDING.



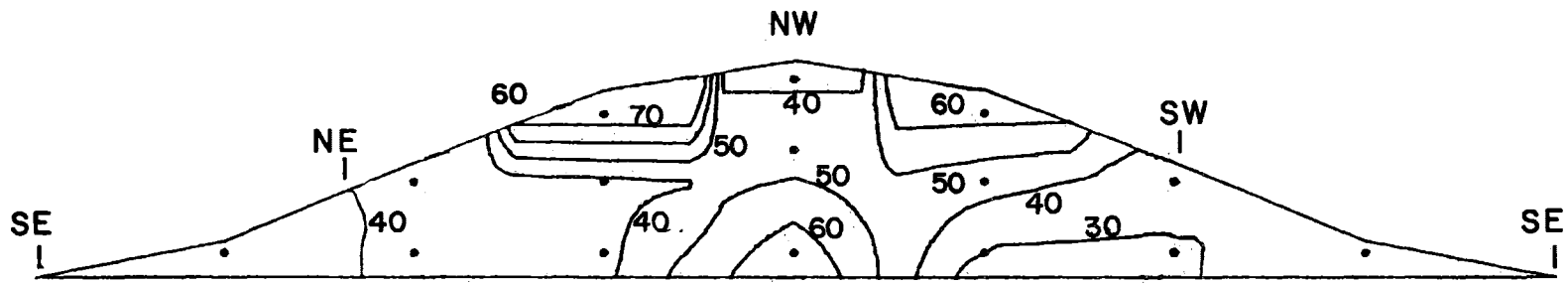
Cladding Loads
Reference Pressure = 29 psf

FIGURE 10d PEAK PRESSURE LOADS ON THE BUILDING.



Cladding Loads
Reference Pressure = 29 psf

FIGURE 10• PEAK PRESSURE LOADS ON THE BUILDING.



ROOF CYLINDER
Cladding Loads
Reference Pressure = 29 psf

FIGURE 10f PEAK PRESSURE LOADS ON THE BUILDING.

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
STATE OF ILLINOIS CENTER, CHICAGO

LOCATION 1				LOCATION 2			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	3.56	10.9	68.3	0.00	35.6	11.4	69.7
22.50	2.2	9.3	56.6	22.50	35.6	10.5	67.1
45.00	2.2	8.6	55.2	45.00	33.3	9.3	61.1
67.50	2.2	8.3	55.1	67.50	33.3	7.7	58.6
90.00	2.2	8.4	55.8	90.00	28.8	7.4	58.3
112.50	2.2	9.8	63.3	112.50	36.6	14.2	79.2
135.00	2.2	10.0	60.0	135.00	30.0	11.1	65.2
157.50	2.2	8.6	56.6	157.50	19.9	4.7	53.4
180.00	2.2	8.0	55.7	180.00	19.9	4.1	52.2
202.50	2.2	9.5	61.1	202.50	27.3	9.0	54.4
225.00	2.2	10.0	62.2	225.00	30.7	8.6	56.6
247.50	4.4	10.5	74.4	247.50	38.0	10.1	68.4
270.00	4.4	10.6	74.4	270.00	29.8	7.0	50.8
292.50	4.4	9.6	61.3	292.50	29.8	8.1	50.4
315.00	4.4	9.9	61.7	315.00	23.3	6.7	44.1
337.50	3.8	8.3	63.8	337.50	24.4	7.8	47.9

LOCATION 3				LOCATION 4			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	2.35	6.2	42.1	0.00	22.5	6.5	42.1
22.50	2.2	4.8	34.9	22.50	19.1	4.1	31.5
45.00	2.2	7.1	50.8	45.00	34.1	8.0	58.1
67.50	2.2	7.3	56.2	67.50	36.0	7.4	58.3
90.00	2.2	6.6	52.4	90.00	32.7	6.0	50.8
112.50	2.2	10.1	61.1	112.50	25.7	6.7	45.8
135.00	2.2	10.7	70.0	135.00	31.4	7.6	54.3
157.50	2.2	7.7	57.7	157.50	19.0	3.4	29.2
180.00	2.2	3.2	36.6	180.00	17.3	3.0	26.4
202.50	2.2	3.1	36.6	202.50	29.9	4.9	44.5
225.00	2.2	5.7	39.9	225.00	28.9	8.6	54.5
247.50	1.9	4.1	31.5	247.50	26.1	8.0	50.1
270.00	2.2	6.6	42.1	270.00	36.6	12.5	73.9
292.50	2.2	8.4	42.1	292.50	26.1	14.4	92.1
315.00	2.2	7.7	41.1	315.00	49.0	10.3	76.0
337.50	2.2	5.5	37.5	337.50	45.1	12.5	74.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
STATE OF ILLINOIS CENTER, CHICAGO

LOCATION 5				LOCATION 6			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	19.0	4.7	33.2	0.00	19.9	5.4	36.2
22.50	16.7	3.7	27.8	22.50	21.7	6.0	39.6
45.00	24.5	8.0	48.6	45.00	27.6	5.7	44.6
67.50	22.6	7.0	43.8	67.50	28.0	6.0	46.1
90.00	23.4	6.1	41.7	90.00	30.6	5.4	46.9
112.50	21.5	4.8	36.0	112.50	30.3	9.5	58.8
135.00	19.4	3.8	30.8	135.00	33.0	8.1	57.7
157.50	17.7	2.7	25.7	157.50	15.2	22.3	22.2
180.00	15.4	2.0	21.5	180.00	15.6	33.3	25.6
202.50	24.9	6.2	43.6	202.50	17.2	3.5	27.8
225.00	23.8	5.0	38.9	225.00	21.6	4.3	34.5
247.50	22.0	4.8	36.3	247.50	28.4	5.8	45.5
270.00	38.1	7.6	60.8	270.00	21.7	5.3	37.5
292.50	45.0	9.2	72.5	292.50	25.9	5.9	43.3
315.00	39.1	8.0	63.0	315.00	25.1	6.3	44.1
337.50	35.8	8.2	60.3	337.50	23.9	6.0	41.9

LOCATION 7				LOCATION 8			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	18.0	3.3	27.9	0.00	23.4	6.7	43.4
22.50	18.0	3.5	28.4	22.50	26.9	7.5	45.4
45.00	17.8	3.3	27.7	45.00	24.5	7.2	46.1
67.50	19.3	4.2	31.8	67.50	22.3	5.3	38.3
90.00	26.0	5.4	42.3	90.00	29.0	8.6	54.8
112.50	28.9	8.4	54.0	112.50	33.8	11.4	67.9
135.00	36.9	9.4	65.0	135.00	40.4	12.7	78.4
157.50	19.9	5.5	36.4	157.50	21.5	6.1	39.7
180.00	21.7	4.9	36.3	180.00	21.6	4.8	35.9
202.50	20.3	4.3	33.3	202.50	23.9	6.5	43.4
225.00	20.5	3.9	32.1	225.00	20.0	5.1	35.4
247.50	20.4	4.3	33.1	247.50	31.5	7.9	55.3
270.00	19.8	3.4	30.1	270.00	24.1	6.6	43.8
292.50	20.3	4.5	33.8	292.50	23.7	6.0	41.7
315.00	20.1	4.0	32.1	315.00	22.9	5.9	40.7
337.50	18.7	3.7	29.9	337.50	22.7	6.2	41.5

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
STATE OF ILLINOIS CENTER, CHICAGO

LOCATION 9

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	20.6	4.9	35.1
22.50	19.4	4.5	32.8
45.00	20.8	5.1	36.2
67.50	20.4	4.6	34.3
90.00	24.8	6.8	45.4
112.50	32.8	10.4	64.0
135.00	42.5	10.8	75.0
157.50	27.5	7.1	49.0
180.00	22.4	4.6	36.1
202.50	21.8	5.7	39.1
225.00	22.7	6.5	42.0
247.50	27.3	8.0	51.3
270.00	23.4	6.5	42.8
292.50	24.1	6.4	43.4
315.00	23.7	6.3	42.5
337.50	21.2	5.4	37.5

LOCATION 10

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	26.3	6.8	46.6
22.50	24.0	6.4	43.2
45.00	25.5	7.9	49.3
67.50	19.8	5.3	35.5
90.00	21.6	5.0	36.6
112.50	26.8	7.4	48.9
135.00	30.6	7.9	54.4
157.50	23.7	4.9	37.6
180.00	21.7	3.7	32.9
202.50	17.1	3.2	26.9
225.00	17.4	4.1	29.7
247.50	21.0	6.1	39.4
270.00	17.0	3.2	26.6
292.50	19.2	4.0	31.3
315.00	22.3	5.7	39.6
337.50	20.3	5.1	35.6

LOCATION 11

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	17.2	7.7	40.4
22.50	16.1	7.2	37.8
45.00	12.4	4.1	24.7
67.50	12.3	4.1	24.6
90.00	17.7	5.6	34.5
112.50	17.2	6.1	35.4
135.00	18.1	6.6	37.8
157.50	13.9	4.9	28.6
180.00	13.3	4.5	27.0
202.50	16.6	7.4	38.9
225.00	11.7	3.9	23.5
247.50	12.8	4.3	25.5
270.00	16.6	5.5	33.3
292.50	40.4	12.5	78.0
315.00	28.4	11.3	62.4
337.50	17.0	7.0	37.9

LOCATION 12

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	28.0	10.6	59.7
22.50	29.4	12.0	65.5
45.00	13.1	5.8	30.4
67.50	11.7	5.9	23.4
90.00	27.0	9.8	47.4
112.50	31.1	7.7	54.3
135.00	30.7	8.5	56.1
157.50	17.9	6.1	36.4
180.00	13.4	4.2	26.1
202.50	18.2	5.5	34.6
225.00	13.3	4.1	25.6
247.50	15.6	5.9	33.3
270.00	18.2	5.2	33.9
292.50	32.5	9.5	60.9
315.00	36.6	10.6	68.3
337.50	28.7	10.0	58.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
STATE OF ILLINOIS CENTER, CHICAGO

LOCATION 13

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	20.1	4.6	34.0
22.50	23.5	5.6	40.1
45.00	18.5	3.5	28.9
67.50	18.6	2.8	27.1
90.00	17.5	2.9	26.4
112.50	26.9	4.7	35.0
135.00	20.8	4.0	32.7
157.50	16.0	2.7	25.3
180.00	19.1	2.9	28.0
202.50	15.9	1.9	21.6
225.00	22.3	3.6	33.1
247.50	22.9	3.5	32.9
270.00	18.0	3.2	27.5
292.50	19.0	3.5	29.4
315.00	22.9	5.3	38.8
337.50	19.7	4.7	33.8

LOCATION 14

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	23.2	9.7	53.4
22.50	33.7	13.1	72.2
45.00	26.6	9.6	55.3
67.50	22.6	7.7	45.8
90.00	12.3	7.7	28.8
112.50	14.2	3.9	22.9
135.00	14.0	3.8	22.5
157.50	11.5	5.5	19.0
180.00	13.8	5.1	22.9
202.50	14.9	5.5	24.8
225.00	27.2	5.5	38.2
247.50	33.2	6.6	46.4
270.00	30.5	6.6	43.7
292.50	26.4	6.6	39.6
315.00	22.0	7.7	35.5
337.50	18.6	7.7	33.7

LOCATION 15

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	16.2	7.3	38.9
22.50	18.0	7.8	41.3
45.00	14.8	5.2	30.4
67.50	15.7	6.0	33.8
90.00	22.8	11.3	45.7
112.50	33.0	15.5	63.6
135.00	45.9	17.6	78.8
157.50	46.0	16.5	75.4
180.00	55.0	13.7	86.2
202.50	52.5	13.6	83.4
225.00	41.2	15.7	68.3
247.50	34.8	14.6	63.6
270.00	40.6	16.6	70.3
292.50	35.7	19.0	62.8
315.00	45.5	21.6	78.2
337.50	29.9	16.9	60.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

CHICAGO, ILLINOIS

MIDWAY AIRPORT (1951-1960)

SEASON : ANNUAL

NO. OF OBS. = 87672

HT. OF MEAS. = 984. FT

VELOCITY LEVELS IN MPH

DIRECTION	0- 5	6-12	13-19	20-29	30-36	37-44	45-51	52-70	71 +	TOTAL
N	.24	.76	1.13	1.03	.21	.07	.04	0.00	0.00	3.50
NNE	.26	1.10	1.58	1.04	.21	.06	0.00	0.00	0.00	4.25
NE	.51	1.88	2.21	.97	.17	.02	0.00	0.00	0.00	5.76
ENE	.44	1.77	2.37	.90	.15	.02	0.00	0.00	0.00	5.66
E	.64	2.27	2.06	.60	.07	.03	0.00	0.00	0.00	5.66
ESE	.34	.94	.74	.41	.07	0.00	0.00	0.00	0.00	2.50
SE	.58	1.87	1.46	.60	.06	.01	0.00	0.00	0.00	4.50
SSE	.30	1.34	1.47	.76	.20	.01	0.00	0.00	0.00	4.08
S	.48	2.38	3.32	1.81	.27	.08	0.00	0.00	0.00	8.34
SSW	.44	2.02	3.54	2.58	.45	.09	.03	.01	0.00	9.16
SW	.46	2.40	3.41	2.36	.41	.08	.03	.01	0.00	9.16
WSW	.27	1.24	2.46	2.11	.46	.13	.02	.02	.03	6.75
W	.51	1.60	3.15	2.82	.60	.15	.07	0.00	0.00	8.90
WW	.32	1.42	2.41	2.23	.57	.12	.07	.01	0.00	7.14
NW	.47	2.00	2.94	2.86	.56	.09	.04	.01	0.00	8.97
NNW	.23	.94	1.58	1.55	.33	.08	.03	0.00	0.00	4.75
CALM	.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.85
TOT	7.34	25.91	35.84	24.63	4.80	1.05	.33	.07	.03	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 50-yr fastest mile wind speed at 30 ft has been estimated to be:

ANSI (ref. 6)	70 mph
Revised ANSI	60 mph
Author's Analysis, Midway	62 mph
Author's Analysis, O'Hare	67 mph
Minimum Allowable, Revised ANSI	70 mph

Use 70 mph fastest mile at 30 ft

2. Reference Pressure:

$$\text{Mean hourly wind at 30 ft} = \frac{70}{1.26} = 55.6 \text{ mph}$$

$$\text{Mean hourly wind at gradient} = 55.6 \left(\frac{1000}{30}\right)^{.17} = 100.9 \text{ mph}$$

(gradient height and power law exponent based on data at other sites with similar roughness)

$$\text{Wind tunnel reference ht} = 50 \text{ in.} = 1650 \text{ ft}$$

$$\text{Mean hourly wind at reference ht} = 100.9 \left(\frac{1650}{1250}\right)^{.25} = 108.0 \text{ mph}$$

$$\text{Reference pressure} = 0.5 \rho U_{\text{ref}}^2 = (.98) (.00256) (108.0)^2 = 29.3 \text{ psf}$$

Use 29 psf

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	$(1.26)^2 = 1.59$

30 sec duration load factor was used in Table 7.

TABLE 6 : PEAK LOADS STATE OF ILLINOIS CENTER
 LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND LARGEST POSITIVE VALUE
 REFERENCE PRESSURE USED = 29 PSF

TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD ()	POS PEAK LOAD ()	TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD ()	POS PEAK LOAD ()	TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD ()	POS PEAK LOAD ()	TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD ()	POS PEAK LOAD ()
101	110	.90	26.0	19.1	153	120	.62	18.0	13.4	209	20	.82	23.8	17.2					
102	100	.93	24.2	23.3	153	30	.62	18.0	18.0	210	10	1.1	36.8	17.3					
103	110	.97	23.0	25.5	154	250	.68	19.6	14.9	211	0	1.1	39.3	13.0					
104	110	1.03	22.0	22.2	155	250	.97	28.3	13.0	212	110	1.1	39.3	24.9					
105	130	.90	26.0	22.2	155	250	.98	28.3	12.4	213	10	1.1	35.6	19.4					
106	250	.98	22.0	22.4	157	250	1.00	29.3	13.0	214	10	1.1	41.0	13.0					
107	280	.98	22.0	22.4	158	130	.91	26.3	13.5	215	350	.89	22.9	17.8					
108	290	.99	22.0	22.4	159	130	.90	26.0	18.6	216	130	.76	22.1	22.1					
109	250	1.14	33.3	25.6	160	260	1.09	33.3	19.9	217	350	.66	19.2	15.5					
110	40	1.20	33.3	25.6	161	250	1.10	33.3	19.9	218	10	1.1	46.8	13.0					
111	350	.97	22.0	22.0	162	240	1.19	34.4	16.8	219	0	1.1	36.6	12.2					
112	350	.94	22.0	22.4	163	150	.93	26.6	19.9	220	140	.66	19.1	19.1					
113	10	1.03	22.0	22.0	164	250	1.10	33.1	17.7	221	300	.56	16.3	15.9					
114	130	1.20	33.3	25.6	165	250	1.03	29.7	16.6	222	10	2.1	59.9	14.4					
115	20	.89	22.0	22.5	166	150	.89	22.9	21.0	223	10	1.1	44.4	10.1					
116	340	.83	22.0	22.4	167	110	1.02	29.9	18.3	224	130	.63	18.2	18.2					
117	320	1.00	24.0	22.9	168	110	.98	28.8	18.8	225	130	.81	23.6	14.7					
118	320	1.07	24.0	22.9	169	130	.99	28.8	21.7	226	0	1.1	42.7	13.5					
119	100	.97	22.0	22.1	170	130	.78	22.8	13.3	227	0	1.1	33.3	12.4					
120	10	.97	22.0	22.1	171	110	.66	19.1	15.4	228	10	1.1	31.1	10.1					
121	350	1.04	33.0	22.2	172	120	.51	14.4	14.4	229	120	.61	17.7	14.7					
122	260	.87	22.5	22.1	173	0	.68	19.6	15.5	230	330	.53	15.3	12.2					
123	110	.82	22.7	22.2	174	280	.85	24.7	11.1	231	10	1.1	52.9	10.7					
124	250	.90	26.3	22.4	175	270	1.29	37.7	14.4	232	10	1.1	52.2	10.4					
125	130	.81	22.3	22.4	176	260	1.67	48.3	13.8	233	10	1.1	66.6	11.2					
126	10	1.06	33.0	23.0	177	150	.79	22.2	15.1	234	300	.50	14.4	12.7					
127	250	.91	22.6	22.4	177	150	.97	28.2	15.7	235	290	.73	21.2	13.4					
128	250	.92	22.6	22.8	179	260	1.31	33.8	15.9	236	300	.63	21.3	8.9					
129	110	.78	22.6	22.8	180	250	1.22	35.5	15.3	237	10	1.1	46.6	10.7					
130	340	.82	22.3	22.3	181	130	.84	22.4	9.9	238	140	.54	15.7	10.0					
131	350	.85	22.4	22.4	182	240	1.03	30.0	20.8	239	200	.44	12.9	11.4					
132	10	.84	22.4	22.4	183	120	.78	22.2	10.8	240	310	.61	17.7	11.1					
133	20	1.00	22.9	22.9	184	110	.78	22.2	13.9	241	10	.73	21.1	9.0					
134	30	.79	22.9	22.9	185	310	.55	16.0	16.0	242	250	.47	13.6	13.1					
135	260	.86	22.4	22.2	186	10	.58	16.8	16.8	243	130	.51	14.9	14.9					
136	10	.88	22.5	22.0	187	310	.66	19.9	19.1	244	10	.76	22.2	11.3					
137	240	1.10	31.1	24.6	188	240	.56	16.3	15.1	245	20	.69	20.1	10.2					
138	150	.73	22.1	15.3	189	240	.54	15.8	13.2	301	260	.87	25.2	14.4					
140	10	.89	22.4	22.2	190	240	.52	15.5	13.3	302	260	.98	25.5	13.2					
141	260	.87	22.4	22.4	191	240	.70	20.0	13.3	303	330	1.19	34.4	18.5					
142	250	1.01	22.9	22.3	192	250	.64	18.8	12.6	304	260	.91	26.4	20.0					
143	110	.91	22.6	22.3	193	260	.61	17.7	10.7	305	280	.93	26.9	21.8					
144	250	.99	22.6	22.1	201	10	1.26	36.6	22.4	306	280	.94	27.1	19.3					
145	100	.99	22.6	22.6	202	20	1.09	31.1	20.6	307	130	.90	26.2	19.7					
146	20	1.33	33.9	22.9	203	10	1.45	42.0	19.9	308	130	.99	28.8	22.9					
147	260	.99	22.8	22.8	204	110	.82	23.3	23.3	309	130	.97	28.1	21.1					
148	220	.99	22.8	22.3	205	10	.78	22.9	23.3	310	310	.69	19.9	17.1					
149	120	.83	22.4	18.6	206	10	1.31	38.1	20.9	311	310	.84	24.3	20.3					
150	120	.86	22.4	16.6	207	0	1.10	34.1	15.5	312	10	.94	27.3	25.7					
151	110	.86	22.4	19.3	208	20	.69	19.9	19.8	313	20	.94	27.1	21.6					

TABLE 6 : PEAK LOADS STATE OF ILLINOIS CENTER
 LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND LARGEST POSITIVE VALUE
 REFERENCE PRESSURE USED = 29 PSF

TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD (PSF)	POS PEAK LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD (PSF)	POS PEAK LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD (PSF)	POS PEAK LOAD (PSF)
44	120	.55	160	9	41	2	.57	16	6	544	416	0	16	9
44	120	.55	160	9	41	2	.57	16	6	544	417	220	15	4
44	120	.55	160	9	41	2	.57	16	6	544	418	220	15	4
44	120	.55	160	9	41	2	.57	16	6	544	419	220	14	8
44	120	.55	160	9	41	2	.57	16	6	544	420	10	16	8
44	120	.55	160	9	41	2	.57	16	6	544	421	140	16	2
44	120	.55	160	9	41	2	.57	16	6	544	422	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	423	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	424	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	425	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	426	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	427	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	428	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	429	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	430	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	431	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	432	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	433	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	434	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	435	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	436	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	437	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	438	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	439	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	440	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	441	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	442	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	443	220	16	2
44	120	.55	160	9	41	2	.57	16	6	544	444	220	16	2

TABLE 6 : PEAK LOADS STATE OF ILLINOIS CENTER
 LARGEST VALUE OF MAXIMUM OR MINIMUM PRESSURE AND LARGEST POSITIVE VALUE
 REFERENCE PRESSURE USED = 29 PSF

TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD (PSF)	POS PEAK LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD (PSF)	POS PEAK LOAD (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABS PEAK LOAD (PSF)	POS PEAK LOAD (PSF)
545	100	.53	15.15	13.3	576	30	.58	17.0	16.8	824	120	1.32	38.2	27.0
544	110	.67	19.9	11.9	577	280	.67	19.5	19.5	825	350	1.30	37.7	37.7
544	120	.76	21.9	12.6	578	280	.64	18.5	18.5	826	320	1.50	44.0	44.0
544	20	.95	27.7	22.5	579	280	.69	20.1	20.1	827	300	1.52	44.1	44.1
544	20	.98	28.8	21.4	580	330	.67	19.3	19.3	828	320	1.19	34.4	37.7
544	200	.76	22.2	22.2	581	330	.52	15.0	15.0	829	280	1.19	34.4	32.3
544	80	.52	15.1	11.4	582	110	.50	14.4	14.4	830	10	2.00	66.8	35.1
544	80	.53	15.5	11.8	583	130	1.95	56.5	33.3	831	250	1.98	66.3	28.3
544	270	.59	17.7	15.9	801	10	1.80	58.2	17.7	832	320	1.99	68.1	26.6
544	40	.68	19.9	16.9	802	20	2.03	58.9	19.9	901	50	1.20	34.4	15.2
544	250	.74	19.9	19.9	803	280	1.59	46.2	16.9	902	50	1.43	41.6	17.0
544	280	.84	24.4	21.4	804	10	1.59	45.7	16.9	903	10	1.35	39.9	14.5
544	110	.54	15.5	11.4	805	10	1.72	49.8	19.9	904	10	1.11	33.3	12.7
544	110	.72	20.0	13.1	806	250	2.18	63.3	13.1	905	220	1.11	32.2	16.5
544	250	.69	20.0	20.0	807	300	1.70	49.2	19.9	907	250	1.17	40.0	21.3
544	20	1.08	31.1	19.6	808	290	1.77	50.9	11.1	908	10	1.39	44.4	13.3
544	290	.74	21.5	21.5	809	0	1.03	29.9	11.1	909	120	1.44	41.7	12.7
544	330	.62	18.0	18.0	810	0	1.23	33.5	11.1	910	280	1.13	33.3	17.0
544	110	.65	18.0	11.2	811	320	1.18	33.4	15.5	911	320	1.11	32.2	37.7
544	110	.57	16.6	11.7	812	320	1.16	33.3	12.2	912	10	1.11	32.2	40.0
544	320	.60	17.7	13.7	813	270	1.21	35.5	9.9	913	320	1.03	32.2	21.5
544	40	.66	19.9	13.7	814	290	1.42	41.1	11.1	914	150	2.22	66.3	13.3
544	250	.66	19.9	19.9	815	290	1.42	41.1	16.6	915	290	1.11	33.3	35.6
544	110	.69	20.0	19.9	816	10	1.01	29.9	16.6	916	130	1.11	33.3	23.1
544	130	.53	15.5	14.8	817	140	1.72	49.9	15.5	917	280	1.01	32.2	21.1
544	120	.58	16.8	10.8	818	320	1.20	34.4	15.5	918	320	1.01	32.2	16.6
544	120	.54	15.1	10.8	819	130	1.35	39.9	16.6	919	280	1.02	32.2	11.5
544	110	.70	20.4	12.0	820	130	1.35	39.9	16.6	920	140	1.01	32.2	12.1
544	110	.70	20.4	12.0	821	130	1.35	39.9	16.6	921	210	1.01	32.2	21.6
544	110	.70	20.4	12.0	822	190	2.18	63.3	16.6	922	300	1.02	32.2	19.8

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
 CONFIGURATION A REFERENCE PRESSURE 29.0 GUST FACTOR 1.32

AZIMUTH DEGREES	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
0	1.1	1.1	1.1	1.1	1.1
10	1.1	1.1	1.1	1.1	1.1
20	1.1	1.1	1.1	1.1	1.1
30	1.1	1.1	1.1	1.1	1.1
40	1.1	1.1	1.1	1.1	1.1
50	1.1	1.1	1.1	1.1	1.1
60	1.1	1.1	1.1	1.1	1.1
70	1.1	1.1	1.1	1.1	1.1
80	1.1	1.1	1.1	1.1	1.1
90	1.1	1.1	1.1	1.1	1.1
100	1.1	1.1	1.1	1.1	1.1
110	1.1	1.1	1.1	1.1	1.1
120	1.1	1.1	1.1	1.1	1.1
130	1.1	1.1	1.1	1.1	1.1
140	1.1	1.1	1.1	1.1	1.1
150	1.1	1.1	1.1	1.1	1.1
160	1.1	1.1	1.1	1.1	1.1
170	1.1	1.1	1.1	1.1	1.1
180	1.1	1.1	1.1	1.1	1.1
190	1.1	1.1	1.1	1.1	1.1
200	1.1	1.1	1.1	1.1	1.1
210	1.1	1.1	1.1	1.1	1.1
220	1.1	1.1	1.1	1.1	1.1
230	1.1	1.1	1.1	1.1	1.1
240	1.1	1.1	1.1	1.1	1.1
250	1.1	1.1	1.1	1.1	1.1
260	1.1	1.1	1.1	1.1	1.1
270	1.1	1.1	1.1	1.1	1.1
280	1.1	1.1	1.1	1.1	1.1
290	1.1	1.1	1.1	1.1	1.1
300	1.1	1.1	1.1	1.1	1.1
310	1.1	1.1	1.1	1.1	1.1
320	1.1	1.1	1.1	1.1	1.1
330	1.1	1.1	1.1	1.1	1.1
340	1.1	1.1	1.1	1.1	1.1
350	1.1	1.1	1.1	1.1	1.1

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
 CONFIGURATION A REFERENCE PRESSURE 29.0 GUST FACTOR 1.32

AZIMUTH DEGREES	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
0	-58.2	20.5	-1.8	-2.5	1.7
10	-75.5	47.6	-1.7	-3.4	2.6
20	-41.1	34.1	-1.1	-2.1	1.7
30	-20.3	19.7	-1.1	-1.0	1.1
40	-11.3	20.0	-1.1	-0.7	0.5
50	-13.2	19.7	-1.1	-0.7	0.5
60	-6.2	19.9	-1.1	-0.5	0.5
70	-6.9	5.9	-1.1	-0.2	0.2
80	-5.5	7.0	-1.1	-0.4	0.3
90	0.2	10.2	-1.1	-0.6	0.6
100	6.6	10.0	-1.1	-0.9	0.9
110	7.5	20.0	-1.1	-0.9	0.9
120	7.5	20.0	-1.1	-0.9	0.9
130	-11.9	18.4	-1.1	-1.1	1.1
140	-11.9	18.4	-1.1	-1.1	1.1
150	-19.3	18.8	-1.1	-1.1	1.1
160	-19.3	13.1	-1.1	-1.1	1.1
170	14.9	4.4	-1.1	-0.9	0.9
180	3.6	1.4	-1.1	-0.9	0.9
190	4.4	1.2	-1.1	-0.9	0.9
200	4.4	1.4	-1.1	-0.9	0.9
210	-10.1	1.4	-1.1	-0.9	0.9
220	-10.1	1.1	-1.1	-0.9	0.9
230	-11.5	1.1	-1.1	-0.9	0.9
240	-11.5	2.0	-1.1	-0.9	0.9
250	-14.2	4.6	-1.1	-0.9	0.9
260	-11.5	1.1	-1.1	-0.9	0.9
270	-11.5	3.8	-1.1	-0.9	0.9
280	-11.5	3.8	-1.1	-0.9	0.9
290	-11.5	1.1	-1.1	-0.9	0.9
300	-11.5	4.4	-1.1	-0.9	0.9
310	-11.5	7.7	-1.1	-0.9	0.9
320	-11.5	3.0	-1.1	-0.9	0.9
330	-11.5	1.1	-1.1	-0.9	0.9
340	-11.5	1.1	-1.1	-0.9	0.9
350	-11.5	1.0	-1.1	-0.9	0.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)												
WIND DIRECTION °		CONFIGURATION A			REFERENCE PRESSURE 29.0 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	-12.7	-7.5	8218	6582	-1.5	-1.1	-268.8	-51.9	-1.1	-30.5	3.9
2	16.00	-22.0	-11.9	8557	6982	-2.6	-1.7	-256.1	-44.4	-2.0	-35.6	3.2
3	37.50	-17.6	-6.3	5922	4778	-3.0	-1.3	-234.1	-32.2	-2.7	-35.0	4.3
4	50.00	-18.0	-7.6	5537	4737	-3.1	-1.6	-216.0	-26.6	-3.1	-32.0	5.0
5	62.50	-18.3	-9.0	5587	4663	-2.9	-1.9	-198.0	-18.8	-3.4	-26.6	5.8
6	75.00	-16.8	-8.9	5666	4590	-2.9	-1.9	-180.0	-10.8	-3.6	-22.2	6.0
7	87.50	-15.6	-8.1	5799	4516	-2.7	-1.8	-163.4	-7.7	-3.8	-17.3	6.1
8	100.00	-10.7	-11.6	5661	4423	-1.9	-2.6	-147.8	-2.2	-3.9	-9.1	6.4
9	112.50	-15.0	-9.5	5631	4379	-2.7	-2.2	-137.1	18.8	-3.4	-7.4	6.0
10	125.00	-19.2	-7.0	5531	4299	-3.4	-1.6	-122.1	33.3	-3.1	-5.7	5.8
11	137.50	-17.6	-3.6	5557	4220	-3.2	-1.8	-102.9	35.3	-2.7	-3.3	5.2
12	150.00	-16.0	-1.0	5555	4141	-2.9	-1.0	-85.2	38.9	-2.2	-2.2	4.2
13	162.50	-15.4	4.7	5342	4074	-2.9	1.1	-69.2	38.8	-1.7	-2.2	3.2
14	175.00	-14.0	5.1	5346	4025	-2.6	1.3	-53.8	34.3	-1.1	-1.4	2.2
15	187.50	-14.0	4.4	5326	3940	-2.6	1.1	-39.9	34.3	-1.1	-1.4	1.7
16	200.00	-10.6	4.7	5333	3858	-2.0	1.2	-25.7	34.8	-1.1	-1.4	1.8
17	212.50	-8.7	9.2	5294	3726	-1.6	2.5	-15.1	34.8	-1.1	-1.2	1.8
18	225.00	-6.4	10.8	5166	3534	-1.2	3.1	-6.4	30.8	-1.1	-1.0	1.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 10

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-32.8	-11.6	8218	6582	-4.0	-1.8	-230.9	-58.0	-1.9	-27.7	-21.1
2	18.80	-9.3	-7.5	8578	6982	-1.1	-1.1	-198.2	-46.3	-2.9	-23.6	-18.3
3	37.50	-11.2	-9.8	5902	4778	-1.9	-2.1	-188.9	-38.9	-3.7	-20.0	-16.8
4	50.00	-9.2	-9.8	5879	4737	-1.6	-2.1	-177.7	-28.0	-4.1	-17.7	-16.4
5	62.50	-8.0	-10.1	5853	4663	-1.4	-2.2	-168.3	-19.3	-4.4	-15.5	-15.0
6	75.00	-7.5	-10.3	5826	4590	-1.3	-2.2	-160.5	-9.2	-4.6	-13.5	-13.7
7	87.50	-7.5	-9.8	5799	4516	-1.3	-2.2	-153.0	1.1	-4.6	-11.5	-14.9
8	100.00	-10.0	-13.3	5661	4423	-1.8	-3.0	-145.5	10.8	-4.5	-9.7	-13.5
9	112.50	-12.7	-12.2	5631	4379	-2.3	-2.8	-135.5	24.1	-4.3	-7.9	-12.3
10	125.00	-16.2	-9.7	5599	4299	-2.9	-2.3	-122.8	36.3	-3.9	-6.3	-10.8
11	137.50	-17.0	-4.8	5567	4220	-3.1	-1.1	-106.6	46.1	-3.4	-4.9	-9.4
12	150.00	-17.8	5.5	5535	4141	-3.2	1.1	-89.5	50.9	-2.8	-3.6	-8.0
13	162.50	-13.7	5.9	5362	4074	-2.6	1.5	-71.7	50.4	-2.2	-2.6	-6.9
14	175.00	-12.3	6.1	5346	4025	-2.3	1.7	-58.0	44.5	-1.6	-1.8	-6.0
15	187.50	-11.4	6.7	5326	3940	-2.1	1.7	-45.7	38.4	-1.1	-1.2	-5.0
16	200.00	-10.4	6.0	5303	3858	-2.0	2.1	-34.3	31.7	-0.6	-0.7	-4.9
17	212.50	-11.4	11.8	5294	3726	-2.1	3.2	-23.9	23.7	-0.3	-0.3	-4.1
18	225.00	-12.5	11.9	5166	3534	-2.4	3.4	-12.5	11.9	-0.1	-0.1	-3.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)						GUST FACTOR 1.32				
WIND DIRECTION 20		CONFIGURATION A						REFERENCE PRESSURE 29.0 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
1	0.00	-1.4	7.6	8218	6582	-1.2	1.2	-175.6	147.8	-29.6	-26.6	33.7
2	18.80	-8.4	-4.6	8578	6982	-1.0	-1.7	-174.2	140.2	-26.9	-23.3	33.0
3	37.50	-1.8	-1.4	5902	4778	-1.3	-1.1	-165.8	144.9	-24.2	-20.1	33.0
4	50.00	-4.1	-2.5	5879	4737	-1.7	-1.5	-164.0	145.3	-22.4	-18.1	33.0
5	62.50	-5.9	-4.5	5853	4663	-1.0	-1.0	-160.0	147.8	-20.6	-16.0	33.1
6	75.00	-5.3	-4.8	5826	4590	-1.9	-1.0	-154.1	152.3	-18.7	-14.1	33.1
7	87.50	-5.0	-3.7	5799	4516	-1.0	-1.8	-148.7	157.1	-16.8	-12.2	33.1
8	100.00	-4.0	1.4	5661	4423	-1.7	-1.3	-143.2	160.7	-14.8	-10.4	33.1
9	112.50	-8.1	7.7	5631	4379	-1.4	-2.2	-139.3	159.3	-12.8	-8.6	33.2
10	125.00	-13.9	1.6	5599	4299	-2.5	1.4	-131.1	158.6	-10.8	-6.9	33.2
11	137.50	-15.9	7.0	5567	4220	-2.9	1.7	-117.2	157.0	-8.8	-5.4	33.2
12	150.00	-18.0	12.5	5535	4141	-3.3	3.0	-101.1	150.0	-6.9	-4.0	33.2
13	162.50	-16.0	23.3	5362	4074	-3.0	5.7	-83.3	155.5	-5.1	-2.8	33.2
14	175.00	-15.4	33.6	5346	4025	-2.9	5.9	-67.3	114.4	-3.5	-1.9	33.2
15	187.50	-16.0	23.7	5326	3940	-3.0	6.0	-51.9	90.7	-2.3	-1.1	33.2
16	200.00	-14.1	21.7	5303	3858	-2.7	5.9	-35.9	66.9	-1.3	-1.6	33.2
17	212.50	-12.5	21.8	5294	3726	-2.4	5.9	-21.4	45.2	-1.6	-1.2	33.2
18	225.00	-8.7	23.4	5166	3534	-1.7	6.6	-8.7	23.4	-1.1	-1.1	33.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 30

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-6.3	15.8	8218	6582	- .8	2.4	-203.7	220.2	-29.1	-28.6	11.6
2	18.80	-5.7	12.2	8578	6982	- .7	1.7	-197.3	204.4	-25.1	-24.8	11.0
3	37.50	-4.5	7.8	5902	4778	- .8	1.6	-191.7	192.2	-21.4	-21.2	11.1
4	56.00	-6.9	8.1	5589	4737	-1.2	1.1	-187.1	184.4	-19.0	-18.8	10.4
5	72.50	-8.8	8.2	5253	4663	-1.5	1.8	-180.2	176.3	-16.7	-16.5	9.6
6	87.00	-8.6	9.1	5799	4590	-1.5	2.0	-171.4	168.1	-14.6	-14.3	8.5
7	100.50	-9.1	10.6	5799	4516	-1.6	2.3	-162.9	159.0	-12.6	-12.2	7.7
8	112.00	-10.4	11.2	5631	4423	-1.8	2.5	-153.8	148.4	-10.6	-10.3	6.9
9	125.50	-12.2	11.1	5631	4379	-2.2	2.5	-143.4	137.2	-8.8	-8.4	5.9
10	137.50	-14.8	11.5	5599	4299	-2.7	2.7	-131.2	126.1	-7.2	-6.7	5.2
11	150.00	-16.5	12.5	5567	4220	-3.0	3.0	-116.4	114.6	-5.7	-5.1	4.6
12	162.00	-18.4	13.7	5555	4141	-3.3	3.3	-99.9	102.1	-4.3	-3.8	4.2
13	173.50	-17.2	16.3	5555	4074	-3.2	4.0	-81.5	88.5	-3.1	-2.7	3.8
14	187.00	-15.8	16.1	5555	4025	-3.0	4.0	-64.5	72.2	-2.1	-1.7	3.3
15	200.50	-15.2	16.0	5555	3940	-2.9	4.1	-48.5	56.0	-1.3	-1.0	2.9
16	208.00	-14.4	14.2	5555	3858	-2.7	3.7	-33.3	40.1	- .7	- .5	2.2
17	212.50	-12.9	12.3	5594	3726	-2.4	3.3	-19.0	25.9	- .3	- .2	1.4
18	222.00	-6.1	13.6	5566	3534	-1.2	3.8	-6.1	13.6	- .1	- .0	.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS :

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)

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
1	0.00	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
2	18.80	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
3	37.60	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
4	56.40	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
5	75.20	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
6	94.00	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
7	112.80	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
8	131.60	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
9	150.40	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
10	169.20	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
11	188.00	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
12	206.80	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
13	225.60	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
14	244.40	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
15	263.20	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
16	282.00	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
17	300.80	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7
18	319.60	12.5	11.2	8218	6582	1.5	1.7	-27.0	196.2	-31.1	-8.3	16.7

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)												
TABLE 7. SHEAR AND MOMENT DIAGRAMS :		WIND DIRECTION 50		CONFIGURATION A		REFERENCE PRESSURE 29.0 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	6.00	11.0	8.7	8218	6582	1.3	1.3	-77.0	199.0	-32.5	-13.0	13.1
2	18.80	-3.4	8.5	8218	6982	-0.5	1.1	-88.0	190.8	-28.8	-11.5	11.4
3	37.50	3.3	8.5	8218	4778	1.1	0.7	-84.0	190.1	-25.2	-9.9	11.3
4	50.00	-2.4	8.5	8218	4737	-1.4	0.7	-84.5	186.6	-22.9	-8.8	10.1
5	62.50	4.4	8.5	8218	4663	1.8	0.8	-82.0	183.1	-20.8	-8.8	9.0
6	75.00	-4.6	8.5	8218	4590	-1.8	0.7	-77.5	179.5	-18.3	-6.8	8.1
7	87.50	5.1	8.5	8218	4516	1.9	0.7	-72.7	176.2	-16.3	-6.9	7.1
8	100.00	-5.4	8.5	8218	4423	-2.2	0.6	-67.6	173.1	-13.9	-4.9	6.0
9	112.50	6.6	8.5	8218	4379	2.0	0.6	-65.1	164.2	-11.8	-4.0	4.8
10	125.00	-6.8	8.5	8218	4299	-1.3	0.5	-62.2	155.7	-9.8	-3.3	3.6
11	137.50	7.7	10.2	5577	4220	1.3	0.4	-56.7	146.9	-7.9	-2.6	2.3
12	150.00	-7.7	12.0	5555	4141	-1.6	0.9	-49.5	136.6	-6.1	-1.9	1.4
13	162.50	8.0	20.7	5522	4074	1.0	1.1	-40.8	124.8	-4.5	-1.4	0.9
14	175.00	-7.5	22.2	5546	4025	-1.4	0.8	-35.3	103.9	-3.1	-0.9	0.9
15	187.50	7.3	23.9	5526	3940	1.0	0.8	-27.8	81.8	-1.9	-0.5	0.9
16	200.00	-7.3	25.3	5533	3858	-1.1	0.8	-17.3	58.9	-1.0	-0.2	0.9
17	212.50	7.9	27.0	5530	3726	1.1	0.8	-7.6	36.6	-0.4	-0.1	0.9
18	225.00	-7.9	17.1	5566	3534	-1.2	0.8	1.9	17.1	-0.1	-0.0	0.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 60

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-1.2	4.5	8218	6582	-1.1	-.7					
2	18.80	-2.1	1.1	8578	6982	-1.3	-.6	-30.9	104.2	-18.9	-1.8	16.8
3	37.50	-1.1	.2	902	4778	-1.1	-.6	-29.7	99.9	-17.0	-1.1	16.1
4	50.00	-1.1	.6	873	4737	-1.3	-.6	-27.1	99.9	-15.1	-1.7	17.8
5	62.50	-2.2	.8	853	4663	-1.1	-.2	-26.6	99.9	-13.8	-.4	16.0
6	75.00	-3.3	-.9	826	4590	-1.6	-.2	-24.7	99.9	-12.6	.0	14.4
7	87.50	-5.1	-.2	799	4516	-1.9	-.5	-21.9	99.9	-11.4	.3	13.0
8	100.00	-2.3	2.0	661	4423	-1.7	1.1	-18.3	101.4	-10.1	.5	11.8
9	112.50	-5.3	1.8	531	4379	-1.4	.6	-13.2	96.4	-8.9	.7	10.9
10	125.00	-5.7	1.8	499	4299	-1.1	.4	-10.8	93.5	-7.7	.9	9.5
11	137.50	-6.8	3.4	367	4220	-1.2	.8	-7.1	91.1	-6.5	1.0	8.8
12	150.00	-7.6	3.4	241	4141	-1.2	.8	-1.2	88.3	-5.3	1.1	8.5
13	162.50	-1.1	4.9	141	4074	-1.0	1.2	5.6	83.3	-4.2	1.0	7.7
14	175.00	-1.1	14.6	66	4025	-1.0	6.6	12.9	80.4	-3.1	.9	6.3
15	187.50	-1.1	14.6	22	3940	-1.0	6.6	14.0	76.6	-2.2	.7	5.5
16	200.00	-1.1	13.9	22	3858	-1.0	5.5	14.1	72.8	-1.4	.4	4.7
17	212.50	-1.1	11.9	22	3758	-1.0	5.5	14.1	69.0	-.8	.2	4.0
18	225.00	-1.1	11.7	22	3656	-1.0	5.5	12.0	65.2	-.4	.2	3.3
19	237.50	-1.1	11.9	6	3544	-1.0	5.5	8.9	61.5	-.1	.1	2.6
20	250.00	-1.1	11.9	6	3444	-1.0	5.5	8.9	57.9	-.1	.1	1.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 70

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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
1	0.00	25.0	13.3	8218	6582	3.0	2.0	200.8	169.2	-20.4	19.5	18.4
2	18.80	23.7	10.0	8578	6982	2.8	1.4	175.8	155.9	-17.4	16.0	18.0
3	37.50	15.3	7.8	5902	4778	2.6	1.6	152.1	146.0	-14.6	12.9	18.3
4	56.00	14.0	8.6	5879	4737	2.4	1.8	136.8	138.2	-12.8	11.1	17.5
5	75.00	13.5	9.1	5853	4663	2.3	1.9	122.8	130.9	-11.1	9.5	16.6
6	94.00	13.1	8.4	5826	4590	2.2	1.9	109.3	120.5	-9.5	8.1	15.9
7	112.50	11.6	8.2	5799	4516	2.0	1.8	96.3	112.1	-8.1	6.8	14.6
8	131.00	9.7	12.8	5661	4423	1.7	2.3	84.7	103.9	-6.7	5.5	14.0
9	149.50	9.6	10.0	5631	4379	1.7	2.3	75.1	91.1	-5.5	4.6	12.6
10	168.00	7.9	8.2	5599	4299	1.4	1.9	65.5	81.1	-4.4	3.3	11.7
11	186.50	6.1	8.5	5577	4220	1.1	2.0	57.7	72.9	-3.5	2.2	11.0
12	205.00	4.6	8.4	5555	4141	.8	2.0	51.5	64.4	-2.6	1.1	10.1
13	223.50	7.7	12.6	5344	4074	1.5	3.1	46.9	56.0	-1.9	.7	8.9
14	242.00	8.3	11.6	5346	4025	1.6	2.9	39.1	43.4	-1.3	.1	7.2
15	260.50	8.4	10.0	5326	3940	1.6	2.5	30.8	31.8	-.8	.7	5.5
16	279.00	8.7	6.6	5333	3858	1.6	1.7	22.4	21.8	-.4	.4	3.9
17	297.50	7.5	5.5	5284	3726	1.4	1.5	13.7	15.2	-.2	.2	2.5
18	316.00	6.2	9.7	5166	3534	1.2	2.8	6.2	9.7	-.1	.0	1.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 80

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
REFERENCE PRESSURE 29.0 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	19.2	8.6	8221.8	6582	2.2	1.3	281.8	116.0	-16.3	31.2	11.6
2	18.80	21.0	3.9	8574.8	6982	2.2	1.6	262.6	107.4	-14.2	26.0	12.2
3	37.50	18.2	3.2	5922.2	4778	1.1	1.7	241.6	103.5	-12.2	21.3	13.4
4	56.00	18.5	3.5	5979.9	4737	1.1	1.1	223.4	100.3	-10.2	18.4	13.1
5	62.50	18.7	3.5	5833	4663	2.2	1.8	205.0	96.7	-9.7	15.7	12.7
6	75.00	17.7	3.0	5590	4590	3.3	2.0	186.2	93.3	-8.5	13.3	12.2
7	87.50	15.9	3.2	5516	4516	3.3	1.7	168.5	90.2	-7.3	11.1	11.8
8	100.00	17.7	2.6	5661	4423	4.4	1.7	152.2	86.9	-7.3	9.1	11.7
9	112.50	17.7	2.7	5631	4379	4.4	1.5	135.4	79.4	-5.6	7.3	11.0
10	125.00	16.6	2.4	5299	4299	6.6	1.5	117.9	72.6	-4.2	5.7	10.4
11	137.50	16.6	2.6	5277	4220	6.6	1.6	101.1	66.6	-4.4	4.3	9.9
12	150.00	14.4	2.5	5255	4141	9.9	1.5	85.5	60.9	-3.3	3.1	9.9
13	162.50	11.6	2.6	5222	4074	13.2	1.4	71.1	55.9	-2.2	2.4	9.2
14	175.00	10.0	2.1	5225	4025	16.4	1.3	55.5	50.9	-1.1	1.4	8.8
15	187.50	9.9	1.1	5233	3925	16.4	1.0	39.4	45.9	-0.9	0.8	8.2
16	200.00	7.7	0.0	5258	3858	19.9	0.9	24.9	40.9	-0.6	0.4	7.5
17	212.50	5.7	0.0	5226	3726	23.6	0.8	10.9	35.9	-0.4	0.1	6.8
18	225.00	5.0	0.0	5234	3534	27.0	0.6	5.9	30.9	-0.2	0.0	6.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 90

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
REFERENCE PRESSURE 29.0 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	5.6	17.5	82248	65827	1.4	2.7	278.7	161.1	-18.9	40.0	21.6
2	18.80	12.0	6.4	85578	6982	1.4	1.9	272.1	143.6	-16.0	34.8	21.4
3	37.50	9.9	6.8	89908	4778	1.4	1.4	260.1	137.1	-13.4	29.9	22.6
4	50.00	10.2	7.0	9599	4737	1.7	1.5	250.2	130.3	-11.7	26.7	22.1
5	62.50	10.5	7.4	9833	4663	1.8	1.6	240.5	123.3	-10.1	23.6	21.4
6	75.00	10.6	7.4	9866	4590	1.8	1.6	229.5	115.9	-8.6	20.7	20.7
7	87.50	10.0	7.8	9799	4516	1.7	1.7	219.0	108.5	-7.2	17.9	20.0
8	100.00	13.0	14.3	9631	4423	2.7	3.2	208.9	100.7	-5.9	15.2	19.1
9	112.50	16.2	11.5	9311	4379	2.9	2.6	193.9	86.4	-4.7	12.7	17.4
10	125.00	16.1	9.7	9199	4299	2.9	2.3	177.7	74.9	-3.7	10.4	16.0
11	137.50	16.9	9.9	917	4220	3.0	2.3	161.6	65.2	-2.9	8.2	14.6
12	150.00	17.4	10.3	9155	4141	3.1	2.5	144.7	55.3	-2.1	6.3	13.0
13	162.50	22.1	10.7	8222	4074	4.1	2.6	127.3	45.0	-1.5	4.6	11.2
14	175.00	19.2	9.2	8333	4025	4.1	2.3	105.2	34.4	-1.0	3.2	9.4
15	187.50	14.5	7.4	8266	3940	4.0	1.9	83.0	25.2	-0.6	2.0	7.5
16	200.00	16.6	6.6	8232	3858	4.2	1.6	61.5	17.8	-0.3	1.1	5.5
17	212.50	20.0	5.9	8244	3726	4.4	1.6	39.4	11.8	-0.1	0.5	3.5
18	225.00	17.2	5.9	8266	3534	3.3	1.7	17.2	5.9	-0.0	0.1	1.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 100

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.0 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-FI-KIPS	Z-MOMENT
1	0.00	20.5	19.4	8218	6582	2.5	2.9	315.9	255.7	-3.6	43.0	33.9
2	18.80	14.3	9.1	8578	6982	1.7	1.3	399.4	236.3	-2.9	37.3	33.9
3	37.50	13.0	12.0	8902	4778	2.2	2.2	388.2	227.3	-3.4	31.9	33.9
4	50.00	12.6	10.5	8779	4737	2.1	2.2	388.2	215.4	-3.1	28.5	33.9
5	62.50	11.8	8.8	8553	4663	2.0	1.1	388.2	204.7	-2.2	22.2	33.9
6	75.00	11.7	8.5	8226	4590	2.0	1.9	388.2	195.9	-1.6	19.1	33.9
7	87.50	10.5	9.2	5799	4516	1.8	2.2	388.2	187.3	-2.3	19.1	33.9
8	100.00	17.7	16.9	5661	4423	3.1	3.8	221.7	178.3	-2.1	16.3	33.9
9	112.50	18.5	15.3	5631	4379	3.1	3.5	221.7	161.2	-1.9	13.6	33.9
10	125.00	17.3	14.7	5599	4299	3.1	3.4	183.4	145.9	-1.8	11.2	33.9
11	137.50	17.2	15.7	5567	4220	3.1	3.3	168.4	131.1	-1.6	9.0	33.9
12	150.00	16.3	16.5	5535	4141	3.1	4.0	150.9	115.5	-1.4	7.0	33.9
13	162.50	19.7	20.0	5362	4074	3.7	4.9	133.7	99.0	-3.4	5.2	33.9
14	175.00	21.2	19.3	5346	4025	4.0	4.8	113.9	79.1	-2.3	3.6	33.9
15	187.50	21.6	17.8	5326	3940	4.1	4.5	92.8	59.8	-1.4	2.4	33.9
16	200.00	23.5	14.7	5303	3858	4.4	3.8	71.1	42.0	-1.8	1.3	33.9
17	212.50	24.5	12.8	5294	3726	4.6	3.4	47.7	27.3	-1.4	.6	33.9
18	225.00	23.2	14.5	5166	3534	4.5	4.1	23.2	14.0	-1.1	.1	33.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;
WIND DIRECTION 110

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.0 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	24.5	19.4	8218	6582	3.0	2.9	376.1	271.6	-33.2	46.9	46.2
2	18.80	24.1	16.3	8578	6982	3.3	3.3	351.6	252.2	-28.2	40.1	46.7
3	37.50	19.3	16.3	8902	4778	3.3	3.4	327.7	235.9	-23.7	33.7	47.7
4	50.00	18.0	13.3	8799	4737	3.3	3.4	308.8	219.7	-20.8	29.0	46.2
5	62.50	16.6	10.4	8553	4663	3.8	2.2	290.0	206.5	-18.2	26.0	44.2
6	75.00	15.2	11.1	8266	4590	3.9	2.2	273.3	196.1	-15.5	22.5	41.6
7	87.50	13.3	9.9	7999	4516	4.0	2.0	258.8	184.3	-13.3	19.2	39.0
8	100.00	12.2	9.9	7661	4423	4.4	1.9	235.8	170.6	-11.0	16.1	36.8
9	112.50	10.9	8.6	7331	4379	4.4	1.6	216.8	157.9	-9.0	13.3	34.5
10	125.00	9.5	7.7	6999	4299	4.1	1.1	194.4	142.1	-7.1	10.7	31.9
11	137.50	8.2	6.6	6667	4220	3.3	0.9	172.2	124.3	-5.5	8.4	27.7
12	150.00	6.6	5.8	6335	4141	4.1	0.3	151.1	106.4	-4.0	6.4	24.2
13	162.50	5.1	4.4	6022	4074	4.4	0.3	128.8	88.6	-2.8	4.6	21.7
14	175.00	3.1	3.3	5662	4025	4.3	0.4	105.8	68.4	-1.8	3.2	17.8
15	187.50	2.0	2.6	5326	3940	4.1	0.5	82.5	49.6	-1.1	2.0	14.0
16	200.00	1.5	1.6	5003	3858	4.1	0.5	60.6	33.0	-0.6	1.1	10.3
17	212.50	1.6	0.8	4694	3726	4.1	0.9	39.0	19.4	-0.2	0.5	6.6
18	225.00	1.5	0.6	4366	3534	3.4	0.4	17.5	8.6	-0.1	0.1	3.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		CONFIGURATION A		STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)				REFERENCE PRESSURE 25.0 PSF		GUST FACTOR 1.32		
WIND DIRECTION 120		X-FORCE	Y-FORCE	X-AREA	Y-AREA	X-PRESS	Y-PRESS	X-SHEAR	Y-SHEAR	X-MOMENT	Y-MOMENT	Z-MOMENT
FLOOR	HEIGHT FT	KIPS	KIPS	SQ FT	SQ FT	PSF	PSF	KIPS	KIPS	1000-FT-KIPS	1000-FT-KIPS	1000-FT-KIPS
1	0.00	10.3	12.3	8218	6582	1.2	1.9	263.9	202.1	-27.5	37.4	48.4
2	18.80	5.4	4.8	8557	6982	1.6	1.7	253.7	189.8	-23.8	32.5	48.2
3	37.50	8.2	8.9	5990	4778	1.4	1.9	248.3	189.0	-20.3	27.4	48.8
4	56.00	7.9	7.9	5587	4737	1.3	1.7	240.1	178.6	-18.0	24.4	46.3
5	75.50	7.6	6.7	5253	4663	1.4	1.4	232.2	168.3	-15.9	21.8	43.6
6	95.00	8.4	7.0	5253	4590	1.4	1.5	224.6	161.1	-13.8	19.0	40.6
7	114.50	8.9	7.8	5799	4516	1.5	1.7	216.2	154.4	-11.8	16.2	37.7
8	134.00	19.1	10.7	5666	4423	3.4	2.4	207.3	146.6	-10.0	13.6	34.9
9	153.50	18.2	12.0	5631	4379	3.2	2.7	188.1	136.0	-8.2	11.1	32.3
10	173.00	17.7	12.8	5567	4299	3.2	3.0	169.9	124.1	-6.6	8.9	29.5
11	192.50	19.8	13.8	5535	4220	3.6	3.3	152.2	111.2	-5.1	6.8	26.4
12	212.00	22.5	14.4	5535	4141	4.1	3.5	132.4	97.4	-3.8	5.1	23.0
13	231.50	23.7	18.3	5346	4074	4.4	4.5	109.9	83.1	-2.7	3.6	19.3
14	251.00	23.2	17.7	5346	4025	4.3	4.4	86.2	64.8	-1.7	2.3	15.9
15	270.50	21.4	16.1	5326	3940	4.0	4.1	62.9	47.1	-1.0	1.4	12.4
16	290.00	16.4	12.3	5333	3858	3.1	3.2	41.5	30.9	-.5	.7	9.1
17	309.50	11.8	8.7	5294	3726	2.2	2.3	25.2	18.6	-.2	.3	5.9
18	329.00	13.4	9.9	5166	3534	2.6	2.8	13.4	9.9	-.1	.1	3.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 130

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
REFERENCE PRESSURE 29.0 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
1	0.00	3.8	13.8	8218	6582	.5	2.1	205.0	192.3	-25.2	30.6	49.3
2	18.00	2.9	5.4	8578	6982	.3	1.8	201.2	178.5	-21.7	26.8	49.0
3	37.00	5.4	8.5	8922	4778	1.1	1.8	198.3	173.1	-18.4	23.1	49.5
4	50.00	1.1	7.7	5879	4737	.9	1.6	191.9	164.6	-16.3	20.6	47.1
5	62.00	5.5	6.8	5533	4663	.6	1.4	186.8	156.9	-14.3	18.3	44.4
6	75.00	5.5	9.9	5266	4590	.9	1.7	183.0	150.1	-12.4	16.0	41.7
7	87.00	5.5	7.1	5053	4516	.6	1.4	177.5	142.2	-10.6	13.7	38.8
8	100.00	11.8	11.8	4811	4422	1.1	1.7	170.0	133.3	-8.9	11.5	35.5
9	112.00	13.1	11.9	4599	4379	.7	1.4	158.8	121.3	-7.3	9.7	32.9
10	125.00	15.1	11.7	4381	4299	.7	1.1	144.4	109.9	-5.8	7.9	29.7
11	137.00	16.4	12.3	4199	4220	.9	1.1	129.9	97.6	-4.5	5.3	26.6
12	150.00	18.0	13.3	4033	4141	.9	1.1	113.4	85.4	-3.4	4.3	23.3
13	162.00	20.0	15.0	3866	4074	.8	1.1	95.4	72.4	-2.4	3.3	19.4
14	175.00	20.0	14.5	3666	4024	.8	1.1	74.4	56.8	-1.6	2.0	16.4
15	187.00	19.3	12.9	3555	3944	.6	1.1	56.6	42.3	-1.0	1.2	13.1
16	200.00	15.1	11.1	3333	3855	.6	1.1	35.3	29.4	-.5	.6	9.8
17	212.00	10.3	9.3	2934	3726	.9	1.1	20.0	18.2	-.2	.3	6.5
18	225.00	10.1	9.0	1666	3534	.6	1.1	10.1	9.0	-.1	.1	3.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 140

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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
18	225.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
17	219.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
16	213.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
15	207.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
14	201.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
13	195.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
12	189.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
11	183.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
10	177.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
9	171.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
8	165.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
7	159.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
6	153.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
5	147.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
4	141.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
3	135.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
2	129.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6
1	123.00	4.46	5.50	516.6	533.4	1.0	1.1	4.9	5.9	1.0	1.0	2.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 150

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	0.0	10.2	8218	6582	-1.3	1.5	108.5	31.2	.9	19.6	33.5
2	18	-3.9	3.9	8578	6982	-1.5	1.6	110.9	21.0	1.4	17.5	33.5
3	37	1.3	5.6	5902	4778	1.2	1.2	114.8	17.1	1.8	15.4	33.5
4	55	1.3	4.9	5879	4737	1.0	1.0	113.5	11.5	2.0	14.0	33.5
5	74	1.5	4.0	5853	4663	1.1	1.1	112.5	6.7	2.1	12.6	33.5
6	92	1.7	4.7	5826	4566	1.3	1.0	112.1	2.6	2.1	11.2	33.5
7	111	2.2	4.5	5799	4516	1.4	1.2	110.4	-2.0	2.1	9.8	33.5
8	130	3.3	4.5	5661	4423	1.6	1.0	107.9	-7.4	2.1	8.4	33.5
9	149	4.4	4.5	5533	4379	1.8	1.1	104.6	-11.6	2.0	7.1	33.5
10	168	5.5	4.5	5399	4299	1.1	1.7	99.8	-15.5	1.8	5.8	33.5
11	187	7.7	4.4	5367	4220	1.4	1.4	93.8	-19.7	1.6	4.4	33.5
12	206	9.9	4.4	5335	4141	1.7	1.4	86.3	-21.1	1.3	3.3	33.5
13	225	14.0	3.3	5362	4074	2.6	1.1	76.7	-22.8	1.1	2.2	33.5
14	244	16.0	-2.1	5346	4025	3.0	-1.1	62.7	-23.1	.8	1.1	33.5
15	263	17.1	-4.9	5326	3994	3.2	-1.0	46.7	-21.0	.5	.9	33.5
16	282	15.5	-6.1	5303	3958	2.9	-1.7	29.6	-16.1	.3	.4	33.5
17	301	8.8	-6.1	5294	3926	1.7	-1.6	14.1	-9.6	.1	.2	33.5
18	320	5.3	-5.5	5166	3834	1.0	-1.0	5.3	-3.5	.0	.0	33.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
WIND DIRECTION 160. CONFIGURATION A REFERENCE PRESSURE 29.0 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
1	0.00	- .7	12.0	8218	6582	- .1	1.8	-82.4	93.2	-8.1	-9.8	16.8
2	18.80	-12.0	7.4	8578	6982	-1.4	1.1	-81.7	61.2	-6.5	-8.2	17.2
3	37.50	-4.7	7.3	5902	4738	- .8	1.5	-69.6	73.8	-5.0	-6.8	18.5
4	50.00	-5.3	7.3	5879	4737	- .9	1.5	-64.9	66.6	-4.1	-6.0	17.4
5	62.50	-5.7	7.4	5853	4663	-1.0	1.6	-59.6	59.2	-3.3	-5.2	16.2
6	75.00	-4.7	7.3	5826	4596	- .8	1.6	-53.9	51.8	-2.6	-4.5	15.1
7	87.50	-4.1	7.4	5799	4536	- .7	1.6	-49.1	44.4	-2.0	-3.8	14.0
8	100.00	-3.9	8.0	5661	4483	- .7	1.8	-45.0	37.2	-1.5	-3.2	12.9
9	111.50	-3.9	6.6	5599	4389	- .6	1.8	-41.1	29.1	-1.1	-2.7	11.8
10	123.00	-4.7	5.9	5531	4289	- .7	1.4	-37.6	22.3	- .8	-2.2	10.7
11	133.50	-3.3	4.8	5535	4230	- .8	1.1	-33.7	16.4	- .6	-1.8	9.6
12	144.00	-5.1	3.6	5335	4141	- .9	.9	-29.1	11.5	- .4	-1.4	8.5
13	162.50	-3.6	2.2	5362	4074	- .7	.5	-23.9	8.0	- .3	-1.0	7.4
14	175.00	-2.7	1.7	5346	4023	- .5	.4	-20.4	5.8	- .2	- .8	6.3
15	187.50	-2.4	1.3	5326	3940	- .4	.3	-17.7	4.0	- .1	- .5	5.2
16	200.00	-3.2	.3	5303	3856	- .6	.1	-15.3	2.7	- .1	- .3	4.1
17	212.50	-5.5	.4	5294	3726	-1.0	.1	-12.1	2.4	- .0	- .2	3.0
18	225.00	-6.5	2.0	5166	3534	-1.3	.6	-6.5	2.0	- .0	- .0	1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 170

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	3.3	10.9	8218	6592	0	1.7	-114.6	159.2	-22.0	-18.8	12.3
2	18.80	-7.0	4.8	5578	6982	-0.8	1.7	-115.0	148.4	-19.1	-16.6	12.8
3	37.50	-4.4	5.3	5902	4773	-0.7	1.1	-108.0	143.6	-16.3	-14.9	14.0
4	56.00	-2.5	5.0	879	4737	-0.4	1.0	-103.6	138.3	-14.6	-13.2	12.8
5	62.50	-1.1	4.9	853	4663	-0.2	1.1	-101.1	133.4	-12.9	-11.9	11.8
6	75.00	0.0	5.5	826	4590	0	1.2	-100.0	128.5	-12.2	-10.7	10.8
7	87.50	0.8	6.4	799	4516	0.1	1.4	-100.0	123.0	-9.7	-9.4	9.9
8	100.00	-2.5	11.0	661	4423	-0.4	2.5	-100.0	116.5	-8.2	-8.2	8.9
9	112.50	-4.0	9.6	631	4379	-0.7	2.2	-98.8	105.5	-6.9	-6.9	7.1
10	125.00	-6.6	8.9	599	4299	-1.2	2.1	-94.4	96.0	-5.5	-5.7	5.8
11	137.50	-8.2	9.0	567	4220	-1.5	2.1	-92.7	87.0	-4.4	-4.6	4.4
12	150.00	-10.0	9.2	535	4141	-1.8	2.2	-90.9	78.0	-3.4	-3.5	3.9
13	162.50	-11.1	11.0	466	4074	-1.7	2.7	-86.6	68.8	-2.4	-2.6	2.8
14	175.00	-11.1	11.1	402	4022	-2.1	3.0	-80.0	57.8	-1.6	-1.8	1.8
15	187.50	-13.8	12.8	333	3944	-2.6	3.6	-74.4	45.1	-1.1	-1.1	1.1
16	200.00	-14.3	12.8	303	3853	-2.8	3.6	-70.4	30.9	-0.5	-0.6	1.0
17	212.50	-12.4	8.7	194	3726	-2.3	3.5	-60.0	18.2	-0.2	-0.2	0.9
18	225.00	-8.2	8.7	166	3534	-1.6	3.5	-44.4	8.2	-0.1	-0.1	0.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS :		STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)						GUST FACTOR 1.32				
WIND DIRECTION 180		CONFIGURATION A						REFERENCE PRESSURE 29.0 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
1	0	3.9	16.2	8218	6582	.5	2.5	8.8	124.7	-11.5	.5	14.6
2	18	.7	.2	6578	6982	.1	1.6	4.9	108.5	-9.3	.3	14.6
3	36	.4	.1	5902	4778	.1	2.1	4.2	97.3	-7.4	.2	13.6
4	54	.1	.1	5875	4737	.0	1.9	3.9	87.3	-6.3	.2	14.9
5	72	.1	.1	5853	4663	.1	1.8	3.9	78.1	-5.2	.2	14.8
6	90	.3	.3	5826	4590	.0	1.7	4.5	69.8	-4.3	.1	12.8
7	108	.3	.7	5799	4516	.1	1.8	4.3	62.1	-3.5	.0	10.4
8	126	.4	.9	5661	4443	.1	2.1	4.0	54.2	-2.7	.0	8.8
9	144	.2	.2	5631	4379	.4	1.7	1.6	44.8	-2.1	.0	7.7
10	162	.7	.6	5599	4329	.1	1.5	1.6	37.2	-1.6	.0	6.8
11	180	.1	.4	5567	4299	.0	1.1	1.3	30.7	-1.2	.0	5.6
12	198	.1	.4	5535	4220	.1	1.1	1.4	24.7	-1.0	.0	4.8
13	216	.7	.6	5362	4141	.1	1.1	1.6	17.2	-.8	.0	4.5
14	234	.4	.6	5346	4074	.1	1.1	1.6	11.2	-.6	.0	4.5
15	252	.1	.2	5326	4025	.0	.9	1.1	9.6	-.4	.0	4.5
16	270	.2	.4	5303	3940	.1	.8	1.1	9.6	-.2	.0	4.5
17	288	.7	.4	5294	3858	.0	.4	.4	6.4	-.1	.0	4.0
18	306	.5	.7	5166	3726	.1	1.0	.5	5.0	-.1	.0	4.0
					3534				3.7	-.0		

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 190

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 22.0 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	0.00	0.7	8218	6592	1.1	1.3	15.7	43.5	-3.5	4.3	
2	18.80	0.00	4.6	6578	6992	1.1	1.3	9.9	34.8	-2.8	4.1	
3	37.60	-33.5	3.4	5902	4798	1.6	1.7	10.4	30.2	-2.2	3.9	
4	56.40	-33.7	2.2	5879	4737	1.6	1.7	15.9	26.8	-1.8	3.8	
5	75.20	-33.6	1.1	5853	4663	1.5	1.6	17.6	23.5	-1.5	3.6	
6	94.00	-22.9	0.6	5826	4590	1.5	1.6	21.2	20.4	-1.2	3.3	
7	112.80	-22.2	0.4	5799	4516	1.4	1.5	24.1	17.8	-1.1	3.1	
8	131.60	0.0	0.8	5661	4423	1.1	1.3	26.4	15.3	0.0	2.7	
9	150.40	0.0	0.0	5631	4339	1.0	1.2	25.5	12.1	0.0	2.4	
10	169.20	-1.2	1.8	5599	4254	1.2	1.4	25.5	9.8	-1.5	2.1	
11	188.00	-1.1	1.7	5567	4220	1.2	1.4	26.7	8.0	-1.4	1.8	
12	206.80	-1.3	1.7	5535	4141	1.2	1.4	27.8	6.2	-1.3	1.4	
13	225.60	3.3	1.7	5362	4074	1.7	1.4	29.1	4.6	-2.2	1.1	
14	244.40	5.5	1.6	5346	4024	1.1	1.2	25.2	3.5	-1.1	0.7	
15	263.20	5.5	1.1	5326	3946	1.2	1.0	19.5	2.3	-1.1	0.5	
16	282.00	4.4	0.9	5303	3858	1.9	1.2	13.3	2.4	-1.1	0.3	
17	300.80	5.5	0.8	5294	3772	1.6	1.1	8.4	3.3	-1.1	0.1	
18	319.60	5.5	0.8	5166	3554	1.1	1.0	5.5	3.0	-1.0	0.0	

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 200

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
REFERENCE PRESSURE 29.0 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	-2.0	17.4	821.8	6582	-	-	-	-	-	-	-
2	18.80	-4.3	11.2	857.8	6982	-	2.6	-53.3	43.6	-1.7	-2.6	44.4
3	37.50	-9.4	3.6	590.2	4778	-1.1	1.6	-51.4	26.2	-1.0	-1.1	44.4
4	56.00	-14.4	4.2	587.3	4737	-1.1	1.7	-47.1	15.5	-0.4	-1.1	44.4
5	75.00	-18.8	4.2	585.3	4663	-1.1	1.9	-37.7	11.3	-0.5	-1.1	44.4
6	94.00	-23.0	4.8	588.3	4590	-1.1	1.0	-29.1	7.7	-0.7	-1.1	44.4
7	113.00	-27.5	3.0	578.9	4516	-1.1	1.4	-21.3	5.5	-0.7	-1.1	44.4
8	132.00	-32.0	4.6	566.3	4423	-1.1	1.1	-13.3	2.7	-0.7	-1.1	44.4
9	151.00	-36.4	4.4	559.9	4379	-1.1	1.1	-4.5	1.5	-0.6	-1.1	44.4
10	170.00	-40.8	4.4	556.6	4399	-1.1	1.1	1.5	0.0	-0.6	-1.1	44.4
11	189.00	-44.4	2.2	555.5	4320	-1.1	0.0	6.2	0.4	-0.3	-1.1	44.4
12	208.00	-48.0	1.1	555.5	4141	-1.1	0.0	10.4	0.6	-0.0	-1.1	44.4
13	227.00	-51.6	1.1	555.5	4074	-1.1	0.0	14.9	0.4	-0.1	-1.1	44.4
14	246.00	-55.2	1.1	555.5	4025	-1.1	0.0	14.1	0.4	-0.1	-1.1	44.4
15	265.00	-58.8	1.1	555.5	3940	-1.1	0.0	11.3	0.4	-0.0	-1.1	44.4
16	284.00	-62.4	1.1	555.5	3858	-1.1	0.0	8.1	0.4	-0.0	-1.1	44.4
17	303.00	-66.0	1.1	555.5	3726	-1.1	0.0	4.4	0.4	-0.0	-1.1	44.4
18	322.00	-69.6	1.1	555.5	3534	-1.1	0.0	2.6	0.4	-0.0	-1.1	44.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 210

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
REFERENCE PRESSURE 29.0 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	-16.6	5.1	8218	6582	-2.0	.8	-84.3	-70.3	13.2	-2.3	-2.2
2	18.80	-11.7	4.3	8578	6982	-1.4	.6	-67.7	-75.3	11.9	-.9	-.8
3	37.50	-13.1	-2.1	5902	4778	-2.2	-.4	-56.0	-79.3	10.4	.2	1.0
4	50.00	-13.1	-1.5	5879	4737	-2.2	-.3	-48.9	-77.5	9.4	.9	1.1
5	62.50	-13.0	-1.1	5853	4663	-2.2	-.2	-42.0	-76.0	8.5	1.1	1.2
6	75.00	-11.4	-1.2	5826	4590	-2.0	-.3	-16.8	-74.4	7.5	1.6	1.1
7	87.50	-10.4	-1.5	5799	4516	-1.8	-.1	-5.4	-73.2	6.6	1.8	1.1
8	100.00	-5.9	-2.3	5661	4423	-1.0	-.5	5.0	-73.2	5.7	1.8	.9
9	112.50	-5.0	-3.0	5631	4379	-.9	-.9	10.8	-70.9	4.8	1.7	1.0
10	125.00	-5.1	-4.6	5599	4299	-.9	-1.1	15.8	-67.1	3.9	1.5	1.2
11	137.50	-3.2	-4.3	5567	4220	-.6	-1.0	20.9	-62.5	3.1	1.3	1.4
12	150.00	-1.6	-3.9	5535	4141	-.3	-.9	24.1	-58.8	2.3	1.0	1.6
13	162.50	4.7	-3.9	5366	4074	-.9	-.2	25.7	-54.3	1.6	-.7	1.7
14	175.00	7.1	-12.2	5346	4025	1.3	0.0	21.0	-45.5	1.0	.4	2.1
15	187.50	7.8	-14.5	5326	3940	1.5	-.7	13.9	-33.3	.5	.2	2.3
16	200.00	6	-12.2	5303	3858	1.2	-.2	6.1	-18.7	.2	.0	2.0
17	212.50	4.4	-6.5	5299	3726	1.1	-.7	1.1	-6.5	.0	.0	1.7
18	225.00	1.4	-.0	5166	3544	-.1	0.0	-.4	-.0	.0	.0	.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
 WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 29.0 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	-16.4	-4.9	8218	6582	-2.0	-.7	-136.0	-92.6	10.7	-11.5	-6.0
2	18.80	-16.3	-3.2	8578	6982	-1.9	-.5	-119.7	-87.6	9.0	-9.1	-3.5
3	37.50	-11.7	-7.4	5902	4778	-2.0	-1.5	-103.4	-84.4	7.4	-7.1	-1.0
4	56.00	-10.9	-6.3	5879	4737	-1.9	-1.3	-91.7	-77.0	6.4	-5.8	-.2
5	62.50	-9.9	-7.3	5853	4663	-1.7	-1.2	-80.8	-70.7	5.4	-4.8	-.3
6	75.00	-9.3	-7.3	5826	4590	-1.6	-1.1	-70.9	-65.0	4.4	-3.8	1.1
7	87.50	-9.4	-4.1	5799	4516	-1.6	-.9	-61.5	-59.7	3.8	-3.0	1.1
8	100.00	-11.4	-4.3	5661	4423	-2.1	-1.0	-52.2	-55.7	3.1	-2.3	1.1
9	112.50	-9.5	-4.0	5631	4339	-1.7	-1.4	-40.5	-51.6	2.4	-1.7	1.1
10	125.00	-8.7	-3.8	5599	4259	-1.5	-1.7	-31.0	-45.3	1.8	-1.2	1.1
11	137.50	-7.7	-3.5	5567	4220	-1.3	-1.3	-22.5	-38.1	1.3	-1.0	1.1
12	150.00	-6.4	-3.5	5535	4141	-1.1	-1.0	-15.4	-32.2	.9	-.7	1.1
13	162.50	-5.6	-4.4	5503	4064	-1.1	-1.1	-9.1	-26.9	.5	-.5	1.1
14	175.00	-5.0	-4.4	5472	3999	-1.0	-1.1	-5.5	-22.1	.2	-.4	1.1
15	187.50	-4.7	-4.4	5444	3944	-1.0	-1.1	-3.5	-17.9	.1	-.3	1.1
16	200.00	-4.5	-4.4	5426	3899	-1.1	-1.1	-2.1	-14.4	.1	-.2	1.1
17	212.50	-4.3	-4.4	5414	3866	-1.1	-1.1	-1.1	-11.1	.1	-.1	1.1
18	225.00	-3.3	-4.7	5166	3334	-1.6	1.9	-3.3	-6.7	.0	-.0	1.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 230

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-19.6	-12.6	8221.9	6582	-2.4	-1.9	-149.6	-160.2	19.3	-15.3	-
2	16.80	-15.2	-6.0	8557.3	6982	-1.8	-1.9	-130.0	-147.6	16.5	-12.8	-
3	37.50	-10.7	-9.9	5902.2	4778	-1.8	-2.1	-114.9	-141.6	13.7	-10.3	-
4	56.00	-8.3	-8.9	5879.9	4737	-1.4	-1.9	-104.2	-131.7	12.0	-9.0	-
5	62.50	-6.1	-8.4	5853.3	4663	-1.0	-1.8	-95.8	-122.8	10.4	-7.7	-
6	75.00	-6.0	-8.4	5825.6	4590	-1.0	-1.8	-89.8	-114.4	9.0	-6.9	-
7	87.50	-7.5	-7.3	5799.9	4516	-1.3	-1.6	-83.8	-106.0	7.6	-5.5	-
8	100.00	-12.8	-6.9	5663.1	4423	-2.3	-1.6	-76.3	-98.8	6.3	-4.4	-
9	112.50	-9.8	-9.1	5633.1	4379	-1.7	-2.1	-63.5	-91.8	5.1	-3.6	-
10	125.00	-8.4	-10.6	5599.9	4299	-1.5	-2.5	-53.7	-82.2	4.0	-2.9	-
11	137.50	-8.8	-9.9	5553.3	4220	-1.6	-2.3	-45.5	-73.7	3.1	-2.2	-
12	150.00	-9.9	-8.8	5533.5	4141	-1.7	-2.1	-36.7	-65.5	2.2	-1.7	-
13	162.50	-11.4	-11.6	5533.3	4074	-1.6	-2.8	-27.3	-56.5	1.5	-1.1	-
14	175.00	-12.2	-11.4	5533.3	4025	-1.4	-3.0	-20.0	-47.4	0.9	-0.8	-
15	187.50	-12.2	-11.1	5533.3	3940	-1.0	-3.1	-11.1	-38.9	0.4	-0.4	-
16	200.00	-14.4	-11.1	5533.3	3858	-1.1	-3.3	-1.1	-30.1	0.1	-0.1	-
17	212.50	-10.6	-8.5	5294.4	3726	-1.9	-2.5	-18.1	-21.8	0.2	-0.2	-
18	225.00	-7.8	2.4	5166	3534	-1.5	-1.7	-7.8	-10.4	0	0	-

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1				STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)				GUST FACTOR 1.32				
WIND DIRECTION 240		CONFIGURATION A		REFERENCE PRESSURE 29.0 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
1	0.00	-12.9	-21.9	8218	6582	-1.6	-2.3	-82.76	-270.8	33.0	-9.1	11.1
2	18.80	-7.9	-16.6	8578	6982	-1.9	-2.4	-69.9	-248.9	22.1	-7.7	11.1
3	37.50	-4.6	-16.8	902	4778	-1.8	-3.5	-61.9	-232.3	18.1	-6.5	11.1
4	56.00	-2.6	-15.4	879	4737	-1.4	-3.3	-57.3	-215.5	13.1	-5.7	11.1
5	75.00	-1.6	-14.7	853	4663	-1.1	-3.2	-54.7	-200.1	11.1	-5.0	11.1
6	94.00	-1.0	-14.0	826	4590	-1.2	-3.3	-54.0	-185.4	10.1	-4.3	11.1
7	113.00	-1.0	-14.0	799	4516	-1.3	-3.3	-53.0	-170.4	9.1	-3.7	11.1
8	132.00	-1.0	-14.0	779	4423	-1.8	-3.8	-53.0	-155.4	8.1	-3.0	11.1
9	151.00	-1.0	-14.0	661	4379	-1.2	-4.0	-44.3	-138.5	5.1	-2.4	11.1
10	170.00	-1.0	-14.0	631	4299	-1.0	-4.3	-44.3	-120.9	5.1	-2.0	11.1
11	189.00	-1.0	-14.0	631	4230	-1.0	-4.1	-39.8	-102.6	4.1	-1.6	11.1
12	208.00	-1.0	-14.0	631	4141	-1.1	-4.1	-39.8	-85.1	3.1	-1.2	11.1
13	227.00	-1.0	-14.0	631	4074	-1.4	-4.0	-33.3	-68.4	2.1	-0.8	11.1
14	246.00	-1.0	-14.0	631	4025	-1.2	-3.6	-33.3	-52.4	1.1	-0.6	11.1
15	265.00	-1.0	-14.0	631	3945	-1.0	-3.3	-33.3	-37.7	1.1	-0.4	11.1
16	284.00	-1.0	-14.0	631	3803	-1.0	-3.3	-33.3	-22.9	1.1	-0.2	11.1
17	303.00	-1.0	-14.0	631	3722	-1.5	-3.7	-33.3	-10.1	1.1	-0.1	11.1
18	322.00	-1.0	-14.0	631	3534	-1.3	-3.0	-33.3	0.0	1.1	0.0	11.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 250

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
REFERENCE PRESSURE 29.0 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	-31.0	-31.2	8218	6882	1.1	-4.7	-276.1	33.3	45.3	-31.5	-2.3
2	18.00	-29.3	-24.8	8571	6982	1.1	-4.4	-245.2	33.8	38.9	-26.6	-1.9
3	37.50	-18.1	-22.1	8997	7178	1.1	-4.4	-222.1	32.5	22.0	-16.8	-1.3
4	50.00	-15.9	-20.9	9399	7377	1.1	-4.4	-206.9	31.1	13.1	-11.1	-0.8
5	62.50	-13.5	-19.8	9863	7590	1.1	-4.4	-187.7	29.9	6.6	-6.6	-0.5
6	75.00	-11.2	-18.5	10323	7816	1.1	-4.4	-174.4	28.4	3.3	-3.3	-0.3
7	87.50	-10.7	-18.4	10779	8033	1.1	-4.4	-162.2	27.1	1.1	-1.1	-0.1
8	100.00	-14.0	-18.4	11240	8243	1.1	-4.4	-152.2	25.6	0.8	-0.8	-0.1
9	112.50	-13.3	-18.2	11711	8448	1.1	-4.4	-144.1	24.4	0.5	-0.5	-0.1
10	125.00	-12.3	-18.0	12199	8649	1.1	-4.4	-137.7	23.1	0.3	-0.3	-0.1
11	137.50	-11.1	-19.9	12700	8847	1.1	-4.4	-132.0	22.0	0.2	-0.2	-0.1
12	150.00	-11.1	-19.0	13200	9041	1.1	-4.4	-127.1	21.1	0.1	-0.1	-0.1
13	162.50	-12.4	-22.2	13700	9231	1.1	-4.4	-122.8	20.0	0.1	-0.1	-0.1
14	175.00	-14.4	-21.7	14200	9425	1.1	-4.4	-118.8	18.8	0.0	0.0	0.0
15	187.50	-15.9	-20.4	14700	9614	1.1	-4.4	-115.5	17.7	0.0	0.0	0.0
16	200.00	-16.3	-19.1	15200	9808	1.1	-4.4	-112.8	16.6	0.0	0.0	0.0
17	212.50	-16.6	-18.8	15700	10000	1.1	-4.4	-110.5	15.5	0.0	0.0	0.0
18	225.00	-15.5	-14.2	16200	10200	1.1	-4.4	-108.5	14.4	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 260

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-25.1	-29.5	8218	6582	-3.0	-4.5	-318.3	-355.5	49.4	-39.6	-6.7
2	18.80	-27.1	-30.5	8578	6982	-3.3	-4.8	-293.2	-329.8	23.9	-33.9	-5.5
3	37.50	-19.3	-22.6	5902	4778	-2.3	-3.4	-266.1	-299.8	24.4	-28.6	-4.4
4	56.00	-16.9	-21.2	5879	4737	-2.2	-3.2	-246.8	-276.6	21.1	-25.4	-4.4
5	75.00	-14.4	-19.6	5533	4663	-1.8	-2.8	-230.0	-254.6	18.1	-23.5	-4.1
6	93.50	-13.4	-19.1	5533	4590	-1.8	-2.8	-215.6	-233.5	15.1	-19.7	-4.1
7	112.00	-12.6	-18.5	5516	4590	-1.8	-2.8	-202.3	-216.5	12.2	-17.1	-3.9
8	130.50	-14.3	-24.3	5631	4423	-2.1	-3.5	-189.7	-197.3	11.1	-14.6	-3.3
9	149.00	-14.8	-22.1	5631	4279	-2.1	-3.2	-175.4	-177.3	8.3	-12.3	-3.3
10	167.50	-14.5	-20.0	5599	4229	-2.0	-3.0	-160.6	-151.1	5.6	-10.3	-3.3
11	186.00	-13.1	-17.2	5567	4220	-1.8	-2.6	-146.1	-131.2	3.6	-8.3	-3.3
12	204.50	-11.6	-14.6	5535	4141	-1.6	-2.2	-132.9	-114.0	1.7	-6.6	-3.3
13	223.00	-15.1	-17.5	5336	4074	-2.1	-2.6	-121.1	-99.9	0.0	-5.5	-3.3
14	241.50	-16.9	-16.7	5346	4025	-2.2	-2.4	-106.6	-88.9	0.0	-4.4	-3.3
15	260.00	-18.3	-15.7	5326	3940	-2.4	-2.3	-93.3	-77.7	0.0	-3.3	-3.3
16	278.50	-22.7	-16.4	5303	3858	-2.8	-2.4	-71.1	-65.5	0.0	-2.2	-3.3
17	297.00	-26.1	-17.4	5294	3726	-3.3	-2.6	-48.3	-43.9	0.0	-1.1	-3.3
18	315.50	-22.3	-15.7	5166	3534	-2.8	-2.3	-22.3	-15.7	0.0	0.0	-3.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 270°

CONFIGURATION A

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)

REFERENCE PRESSURE 29.9 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
1	0.00	-17.3	-17.3	8	658	1	-	-	214	2	1	-5
2	18.80	-19.4	-16.5	11	698	1	-	-	197	1	1	-4
3	37.50	-13.0	-13.0	13	773	1	-	-	181	1	1	-2
4	50.00	-12.0	-13.0	13	807	1	-	-	168	1	1	-2
5	62.50	-11.0	-13.0	13	853	1	-	-	158	1	1	-2
6	75.00	-10.8	-12.0	13	906	1	-	-	141	1	1	-2
7	87.50	-10.3	-10.4	13	999	1	-	-	131	1	1	-2
8	100.00	-12.5	-10.4	13	116	1	-	-	116	1	1	-2
9	112.50	-13.9	-11.7	13	137	1	-	-	108	1	1	-2
10	125.00	-14.4	-12.1	13	163	1	-	-	103	1	1	-2
11	137.50	-14.4	-11.1	13	199	1	-	-	98	1	1	-2
12	150.00	-14.4	-9.9	13	244	1	-	-	94	1	1	-2
13	162.50	-16.0	-9.9	13	299	1	-	-	91	1	1	-2
14	175.00	-16.0	-8.6	13	366	1	-	-	88	1	1	-2
15	187.50	-17.1	-8.6	13	442	1	-	-	86	1	1	-2
16	200.00	-18.0	-8.6	13	539	1	-	-	84	1	1	-2
17	212.50	-18.0	-8.6	13	654	1	-	-	83	1	1	-2
18	225.00	-17.3	-8.6	13	788	1	-	-	82	1	1	-2

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 280

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-1336.0	-1333.9	821.8	655.2	-14.4	-14.4	-1.5	-5.0	66.0	-67.6	-18.1
2	18.80	-1326.3	-1322.5	821.8	655.2	-14.4	-14.4	-1.5	-5.0	491.6	-497.9	-158.9
3	37.50	-1316.6	-1311.1	821.8	655.2	-14.4	-14.4	-1.5	-5.0	971.6	-977.9	-309.9
4	56.00	-1306.9	-1300.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	1451.6	-1457.9	-460.9
5	75.00	-1297.2	-1290.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	1931.6	-1937.9	-611.9
6	94.00	-1287.5	-1280.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	2411.6	-2417.9	-762.9
7	113.00	-1277.8	-1270.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	2891.6	-2897.9	-913.9
8	132.00	-1268.1	-1260.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	3371.6	-3377.9	-1064.9
9	151.00	-1258.4	-1250.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	3851.6	-3857.9	-1215.9
10	170.00	-1248.7	-1240.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	4331.6	-4337.9	-1366.9
11	189.00	-1239.0	-1230.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	4811.6	-4817.9	-1517.9
12	208.00	-1229.3	-1220.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	5291.6	-5297.9	-1668.9
13	227.00	-1219.6	-1210.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	5771.6	-5777.9	-1819.9
14	246.00	-1209.9	-1200.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	6251.6	-6257.9	-1970.9
15	265.00	-1199.9	-1190.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	6731.6	-6737.9	-2121.9
16	284.00	-1189.9	-1180.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	7211.6	-7217.9	-2272.9
17	303.00	-1179.9	-1170.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	7691.6	-7697.9	-2423.9
18	322.00	-1169.9	-1160.4	821.8	655.2	-14.4	-14.4	-1.5	-5.0	8171.6	-8177.9	-2574.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 290°

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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
1	0.00	-41.36	-133.99	821.78	658.22	-1.59	-5.9	-6337.6	-502.8	56.7	-79.4	-12.6
2	10.80	-44.46	-133.99	821.78	658.22	-1.59	-5.9	-5967.0	-464.0	47.6	-79.4	-10.6
3	37.50	-33.36	-129.99	702.8	477.8	-1.59	-6.2	-5169.5	-395.8	34.9	-59.9	-9.9
4	50.00	-22.26	-128.99	553.3	468.3	-1.59	-6.1	-4522.3	-333.3	25.9	-44.4	-11.1
5	62.50	-11.16	-128.99	459.0	451.6	-1.59	-6.1	-4222.3	-309.9	17.1	-33.3	-11.1
6	75.00	-11.16	-128.99	366.1	442.3	-1.59	-6.1	-3999.9	-282.2	11.1	-22.2	-11.1
7	87.50	-11.16	-128.99	273.2	422.0	-1.59	-6.1	-3661.1	-249.4	5.5	-18.7	-9.9
8	100.00	-11.16	-128.99	180.3	414.1	-1.59	-6.1	-3333.3	-222.2	0.0	-14.4	-11.1
9	112.50	-11.16	-128.99	87.4	407.4	-1.59	-6.1	-3000.0	-199.9	0.0	-11.1	-11.1
10	125.00	-11.16	-128.99	0.0	402.5	-1.59	-6.1	-2666.6	-177.7	0.0	-8.8	-11.1
11	137.50	-11.16	-128.99	0.0	400.7	-1.59	-6.1	-2333.3	-155.5	0.0	-6.6	-11.1
12	150.00	-11.16	-128.99	0.0	400.7	-1.59	-6.1	-2000.0	-133.3	0.0	-4.4	-11.1
13	162.50	-11.16	-128.99	0.0	400.7	-1.59	-6.1	-1666.6	-111.1	0.0	-2.2	-11.1
14	175.00	-11.16	-128.99	0.0	400.7	-1.59	-6.1	-1333.3	-88.8	0.0	-0.0	-11.1
15	187.50	-11.16	-128.99	0.0	400.7	-1.59	-6.1	-1000.0	-66.6	0.0	0.0	-11.1
16	200.00	-11.16	-128.99	0.0	400.7	-1.59	-6.1	-666.6	-44.4	0.0	0.0	-11.1
17	212.50	-11.16	-128.99	0.0	400.7	-1.59	-6.1	-333.3	-22.2	0.0	0.0	-11.1
18	225.00	-11.16	-128.99	0.0	400.7	-1.59	-6.1	0.0	0.0	0.0	0.0	-11.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 300

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-35.8	-11.9	8218	655	-11.4	-11.4	0	0	0	0	0
2	10	-44.5	-11.9	578	655	-11.4	-11.4	0	0	0	0	0
3	20	-33.3	-11.4	902	477	-11.4	-11.4	0	0	0	0	0
4	30	-33.3	-11.4	879	477	-11.4	-11.4	0	0	0	0	0
5	40	-33.3	-11.4	853	466	-11.4	-11.4	0	0	0	0	0
6	50	-33.3	-11.4	826	456	-11.4	-11.4	0	0	0	0	0
7	60	-33.3	-11.4	799	445	-11.4	-11.4	0	0	0	0	0
8	70	-33.3	-11.4	771	434	-11.4	-11.4	0	0	0	0	0
9	80	-33.3	-11.4	744	423	-11.4	-11.4	0	0	0	0	0
10	90	-33.3	-11.4	717	412	-11.4	-11.4	0	0	0	0	0
11	100	-33.3	-11.4	690	401	-11.4	-11.4	0	0	0	0	0
12	110	-33.3	-11.4	663	390	-11.4	-11.4	0	0	0	0	0
13	120	-33.3	-11.4	636	379	-11.4	-11.4	0	0	0	0	0
14	130	-33.3	-11.4	609	368	-11.4	-11.4	0	0	0	0	0
15	140	-33.3	-11.4	582	357	-11.4	-11.4	0	0	0	0	0
16	150	-33.3	-11.4	555	346	-11.4	-11.4	0	0	0	0	0
17	160	-33.3	-11.4	528	335	-11.4	-11.4	0	0	0	0	0
18	170	-33.3	-11.4	501	324	-11.4	-11.4	0	0	0	0	0
19	180	-33.3	-11.4	474	313	-11.4	-11.4	0	0	0	0	0
20	190	-33.3	-11.4	447	302	-11.4	-11.4	0	0	0	0	0
21	200	-33.3	-11.4	420	291	-11.4	-11.4	0	0	0	0	0
22	210	-33.3	-11.4	393	280	-11.4	-11.4	0	0	0	0	0
23	220	-33.3	-11.4	366	269	-11.4	-11.4	0	0	0	0	0
24	230	-33.3	-11.4	339	258	-11.4	-11.4	0	0	0	0	0
25	240	-33.3	-11.4	312	247	-11.4	-11.4	0	0	0	0	0
26	250	-33.3	-11.4	285	236	-11.4	-11.4	0	0	0	0	0
27	260	-33.3	-11.4	258	225	-11.4	-11.4	0	0	0	0	0
28	270	-33.3	-11.4	231	214	-11.4	-11.4	0	0	0	0	0
29	280	-33.3	-11.4	204	203	-11.4	-11.4	0	0	0	0	0
30	290	-33.3	-11.4	177	192	-11.4	-11.4	0	0	0	0	0
31	300	-33.3	-11.4	150	181	-11.4	-11.4	0	0	0	0	0
32	310	-33.3	-11.4	123	170	-11.4	-11.4	0	0	0	0	0
33	320	-33.3	-11.4	96	159	-11.4	-11.4	0	0	0	0	0
34	330	-33.3	-11.4	69	148	-11.4	-11.4	0	0	0	0	0
35	340	-33.3	-11.4	42	137	-11.4	-11.4	0	0	0	0	0
36	350	-33.3	-11.4	15	126	-11.4	-11.4	0	0	0	0	0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 310

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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
1	0.00	-48.9	-7.1	82118	65822	-1.1	-1.1	-6.6	-148.1	21.6	-84.4	-10.9
2	18.80	-50.0	-6.0	55778	69888	-1.1	-1.1	-5.5	-141.0	18.9	-71.9	-8.8
3	37.50	-39.8	-4.4	99022	47788	-1.1	-1.1	-3.3	-135.0	14.3	-50.4	-6.8
4	56.00	-37.6	-4.4	8779	47337	-1.1	-1.1	-3.3	-128.6	14.3	-53.9	-6.8
5	75.00	-36.0	-6.6	5553	46663	-1.1	-1.1	-5.5	-124.2	13.1	-46.7	-6.0
6	94.00	-35.6	-6.6	5526	45990	-1.1	-1.1	-5.5	-121.6	11.1	-40.5	-5.4
7	113.00	-44.6	-1.1	5599	45116	-1.1	-1.1	-4.4	-117.8	10.0	-34.8	-7.0
8	132.00	-33.2	-4.4	5531	44333	-1.1	-1.1	-3.3	-112.7	8.8	-28.5	-6.4
9	151.00	-33.2	-6.6	5531	43333	-1.1	-1.1	-3.3	-109.4	7.7	-24.6	-5.8
10	170.00	-33.2	-6.6	5531	42333	-1.1	-1.1	-3.3	-105.4	6.6	-20.4	-5.2
11	189.00	-33.2	-6.6	5531	41333	-1.1	-1.1	-3.3	-101.4	5.5	-16.2	-4.6
12	208.00	-33.2	-6.6	5531	40333	-1.1	-1.1	-3.3	-97.4	4.4	-12.0	-4.0
13	227.00	-33.2	-6.6	5531	39333	-1.1	-1.1	-3.3	-93.4	3.3	-7.8	-3.4
14	246.00	-40.4	-4.4	3326	40000	-1.1	-1.1	-4.4	-88.6	2.2	-3.6	-2.8
15	265.00	-40.4	-4.4	3326	39000	-1.1	-1.1	-4.4	-84.6	1.1	-1.1	-2.2
16	284.00	-43.0	-6.6	3303	38000	-1.1	-1.1	-6.6	-80.6	0.0	0.0	-1.1
17	303.00	-43.0	-6.6	3303	37000	-1.1	-1.1	-6.6	-76.6	0.0	0.0	-1.1
18	322.00	-40.0	-6.6	516.6	3534	-1.1	-1.1	-6.6	-72.6	0.0	0.0	-1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 320

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-45.5	-13.3	8218	6582	-1.5	-2.0	-1.5	-196.4	25.2	-81.1	39.9
2	18.80	-49.4	-14.4	8578	6982	-1.5	-2.1	-1.6	-183.1	21.6	-69.1	44.4
3	37.50	-38.5	-8.4	5902	4778	-1.5	-1.8	-1.5	-168.7	18.1	-58.0	39.9
4	56.00	-36.6	-7.9	5799	4737	-1.5	-1.7	-1.5	-160.9	16.6	-51.1	44.4
5	75.00	-35.5	-7.1	5553	4663	-1.5	-1.6	-1.4	-152.3	14.9	-44.7	39.9
6	93.50	-33.0	-6.8	5226	4590	-1.5	-1.5	-1.3	-145.3	13.2	-38.8	44.4
7	112.00	-30.6	-5.5	5799	4516	-1.5	-1.4	-1.2	-137.8	11.5	-33.3	39.9
8	130.50	-30.0	-4.4	5661	4423	-1.5	-1.3	-1.1	-128.8	9.8	-28.8	44.4
9	149.00	-27.7	-3.3	5333	4337	-1.5	-1.2	-1.0	-119.4	8.1	-24.4	39.9
10	167.50	-27.9	-3.3	5599	4239	-1.5	-1.1	-0.9	-109.9	6.4	-20.9	44.4
11	186.00	-22.2	-1.1	5333	4141	-1.5	-1.0	-0.8	-99.9	4.7	-17.4	39.9
12	204.50	-22.2	-1.1	5333	4141	-1.5	-1.0	-0.8	-89.9	3.0	-13.9	44.4
13	223.00	-14.4	-1.1	5333	4074	-1.5	-1.0	-0.8	-79.9	1.3	-10.4	39.9
14	241.50	-14.4	-1.1	5333	4074	-1.5	-1.0	-0.8	-69.9	-0.4	-6.9	44.4
15	260.00	-13.9	-1.1	5326	3994	-1.5	-1.0	-0.8	-59.9	-2.1	-3.4	39.9
16	278.50	-13.9	-1.1	5303	3896	-1.5	-1.0	-0.8	-49.9	-3.8	0.1	44.4
17	297.00	-14.4	-1.1	5294	3798	-1.5	-1.0	-0.8	-39.9	-5.5	3.6	39.9
18	315.50	-14.4	-1.1	5166	3534	-1.5	-1.1	-0.9	-29.9	-7.2	7.3	44.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 330

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 PSF

CUST 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	-32.0	-228.6	821.8	658.2	-1.1	-4.3	-1.1	-1.1	4.4	1.1	5.0
2	18.80	-33.6	-228.6	821.8	658.2	-1.1	-4.3	-1.1	-1.1	4.4	1.1	5.0
3	37.60	-34.9	-228.6	821.8	658.2	-1.1	-4.3	-1.1	-1.1	4.4	1.1	5.0
4	56.40	-34.4	-228.6	821.8	658.2	-1.1	-4.3	-1.1	-1.1	4.4	1.1	5.0
5	75.20	-24.2	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
6	94.00	-23.9	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
7	112.80	-22.6	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
8	131.60	-22.3	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
9	150.40	-21.2	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
10	169.20	-20.1	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
11	188.00	-18.3	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
12	206.80	-17.4	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
13	225.60	-15.7	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
14	244.40	-14.4	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
15	263.20	-12.4	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
16	282.00	-10.5	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
17	300.80	-9.9	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3
18	319.60	-11.5	-177.9	553.3	466.3	-1.1	-3.3	-1.1	-1.1	2.2	1.1	3.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 340

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.0 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	-21.0	-11.5	8218	6582	-2.6	-1.7	-359.3	-33.0	-1.5	-45.2	6.7
2	18.80	-23.5	-15.4	8578	6982	-2.7	-2.2	-338.3	-21.5	-1.5	-38.7	7.4
3	37.50	-18.8	-9.6	5902	4778	-2.2	-2.0	-314.8	-6.0	-1.6	-32.5	5.5
4	56.00	-17.7	-9.7	5879	4737	-2.2	-2.0	-309.1	3.6	-1.6	-28.7	5.5
5	75.00	-16.5	-9.8	5853	4663	-2.2	-1.1	-302.6	1.3	-1.6	-25.1	6.6
6	93.50	-16.9	-8.8	5826	4590	-2.2	-1.1	-297.0	3.2	-1.6	-21.8	6.6
7	112.50	-17.4	-7.7	5799	4516	-2.0	-2.0	-291.2	3.2	-1.6	-18.6	4.4
8	130.00	-16.6	-7.7	5661	4423	-2.9	-1.7	-277.7	4.1	-1.6	-15.6	4.4
9	147.50	-19.1	-6.3	5631	4339	-3.4	-1.4	-261.1	4.9	-1.6	-12.9	3.8
10	165.00	-21.8	-4.2	5599	4259	-3.9	-1.0	-192.2	5.5	-3.3	-10.4	3.3
11	182.50	-22.6	4.5	5567	4220	-4.1	0.0	-170.2	5.9	-3.3	-8.1	3.3
12	200.00	-23.4	9.2	5535	4141	-4.2	1.1	-147.7	5.9	-2.9	-6.1	1.1
13	217.50	-22.6	8.3	5362	4074	-4.2	2.2	-124.7	5.5	-2.1	-4.4	1.1
14	235.00	-22.4	8.8	5346	4025	-4.2	2.2	-101.6	4.6	-1.5	-3.0	1.1
15	252.50	-22.5	8.3	5326	3940	-4.2	2.1	-79.2	3.7	-1.0	-1.9	1.1
16	270.00	-20.5	7.8	5303	3858	-3.9	2.0	-56.7	2.9	-0.6	-1.0	0.5
17	287.50	-18.6	10.8	5294	3726	-3.5	2.9	-36.2	2.1	-0.3	-0.4	0.5
18	305.00	-17.6	10.3	5166	3534	-3.4	2.9	-17.6	1.0	-0.1	-0.1	0.1

TABLE 7 SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
 WIND DIRECTION 350 CONFIGURATION A REFERENCE PRESSURE 29.0 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	-4.3	-8.5	8218	6582	-2.5	-1.3	-236.3	14.2	-14.1	-33.0	4.8
2	18.80	-16.8	-17.6	8578	6982	-2.0	-2.0	-232.0	22.7	-13.7	-28.6	4.4
3	37.50	-10.1	-7.4	5902	4778	-1.7	-1.1	-215.2	40.4	-13.1	-24.4	5.7
4	56.30	-8.1	-8.1	5879	4737	-1.5	-1.7	-205.1	47.7	-12.6	-21.8	4.5
5	75.00	-7.9	-8.9	5853	4663	-1.4	-1.9	-196.2	55.8	-11.9	-19.3	4.4
6	93.80	-9.9	-10.4	5826	4590	-1.6	-2.2	-188.3	64.7	-11.3	-16.9	3.6
7	112.50	-11.1	-10.5	5799	4516	-1.9	-2.9	-179.9	75.1	-10.3	-14.6	2.8
8	131.30	-16.1	-16.4	5661	4444	-1.1	-3.3	-167.9	85.5	-9.3	-12.4	2.0
9	150.00	-10.5	-15.2	5531	4377	-1.9	-4.1	-151.7	92.1	-8.2	-10.4	1.2
10	168.80	-15.5	-20.9	5599	4309	-2.0	-4.9	-135.6	97.7	-7.0	-8.4	0.4
11	187.50	-16.7	-22.0	5567	4220	-2.2	-5.5	-118.6	100.5	-5.8	-6.6	0.1
12	206.30	-18.4	-27.7	5535	4141	-3.3	-7.9	-100.9	97.9	-4.5	-5.0	0.5
13	225.00	-17.4	-33.2	5362	4074	-3.3	-10.0	-82.6	90.2	-3.4	-3.5	1.1
14	243.80	-17.2	-39.5	5346	4005	-3.2	-13.0	-65.4	75.1	-2.3	-2.5	1.1
15	262.50	-17.1	-46.7	5326	3940	-3.0	-16.5	-48.4	59.6	-1.5	-1.6	0.6
16	281.30	-17.1	-54.1	5303	3858	-3.3	-20.7	-31.1	43.9	-0.8	-0.9	0.4
17	300.00	-16.3	-61.8	5294	3726	-3.1	-25.0	-14.5	29.8	-0.4	-0.4	0.1
18	318.80	-14.5	-70.0	5166	3534	-2.8	-30.3	-	15.0	-0.1	-0.1	0.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 0 CONFIGURATION A

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
REFERENCE PRESSURE 29.0 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
1	0.00	-1	-1	135	132	-1.6	-1.6	-58.2	20.5	-1.8	-2.5	1.7
2	.70	-1.5	-1.2	443	407	-1.1	-1.5	-58.1	20.5	-1.8	-2.5	1.6
3	2.90	-1.1	-1.1	695	612	-1.6	-1.2	-57.6	20.7	-1.8	-2.3	1.3
4	6.30	-1.9	-1.2	919	802	-2.1	-1.1	-56.4	20.9	-2.1	-2.1	.8
5	11.00	-2.9	-1.7	1091	904	-2.7	-1.8	-54.5	20.7	-1.9	-1.9	.4
6	16.70	-3.8	1.5	1246	926	-3.1	1.6	-51.8	20.0	-1.5	-1.6	.0
7	23.10	-5.3	2.4	1381	917	-3.9	2.6	-47.8	18.5	-1.4	-1.3	.2
8	30.20	-5.5	3.3	1368	761	-4.0	4.3	-42.5	16.1	-1.2	-1.1	.4
9	37.50	-6.0	4.5	1343	699	-4.5	6.4	-37.0	12.9	-1.1	-1.7	.3
10	44.80	-7.8	4.3	1234	562	-6.3	7.7	-31.0	8.4	-1.1	-1.4	.1
11	51.90	-8.5	3.2	1031	407	-8.3	7.8	-23.2	4.1	-1.0	-1.2	.2
12	58.30	-7.1	.8	817	245	-8.7	3.3	-14.6	.9	-1.0	-1.1	.6
13	64.00	-4.5	.1	558	177	-8.0	.8	-7.5	.1	-1.0	-1.0	.6
14	68.70	-2.1	.0	281	96	-7.6	.0	-3.0	.0	-1.0	-1.0	.3
15	72.10	-1.8	.0	114	48	-8.9	.0	-1.9	.0	-1.0	-1.0	.1
16	74.30	-1	.0	18	12	-8.4	.0	-1	.0	-1.0	-1.0	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 10°

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	.4	135	132	.5	3.2	-75.5	47.6	-1.7	.4	.6
2	.70	-.1	1.2	443	407	.1	3.0	-75.6	47.1	-1.6	.3	.7
3	2.90	-.9	1.6	695	612	.1	3.6	-75.4	45.9	-1.5	.2	.7
4	6.30	-1.8	2.0	919	802	.1	3.5	-74.4	44.3	-1.4	.9	.6
5	11.00	-2.9	2.8	1091	904	.1	3.9	-72.5	42.3	-1.2	.6	.2
6	16.70	-4.0	3.6	1246	926	.1	4.9	-69.9	39.7	-1.1	.2	.2
7	23.10	-6.0	5.5	1381	917	.1	4.8	-68.8	36.1	-1.0	.8	.1
8	29.20	-7.7	7.7	1508	761	.1	4.7	-65.5	33.8	-1.1	.8	.1
9	37.50	-10.4	8.7	1643	699	.1	5.5	-52.8	33.8	-1.2	.9	.1
10	44.80	-13.0	8.8	1834	569	.1	5.5	-44.4	14.7	-1.1	.6	.6
11	51.90	-16.7	9.7	1931	407	.1	5.1	-32.2	6.9	-1.0	.3	.1
12	58.30	-19.0	1.1	817	245	.1	3.3	-18.8	1.5	-1.0	.1	.4
13	64.00	-25.3	.2	558	177	.1	1.3	-8.7	.0	-1.0	.0	.4
14	69.70	-28.3	.0	281	96	.1	.0	-3.5	.0	-1.0	.0	.1
15	72.10	-1.0	.0	114	48	.1	.0	-1.1	.0	-1.0	.0	.1
16	74.30	-.2	.0	18	12	.1	.0	-.2	.0	-1.0	.0	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
WIND DIRECTION 20		CONFIGURATION A				STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)				GUST FACTOR 1.32		
REFERENCE PRESSURE 29.0 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
1	0.00	- .0	.3	135	132	- .4	1.9	-41.1	34.6	-1.2	-2.1	2.7
2	.70	- .3	.8	443	407	- .6	1.9	-41.0	34.3	-1.2	-2.0	2.7
3	2.90	- .6	1.1	695	612	- .9	1.8	-40.7	33.5	-1.1	-1.9	2.6
4	6.30	- .6	1.5	919	802	- .7	1.9	-40.1	32.4	-1.0	-1.8	2.4
5	11.00	- .8	2.0	1091	904	- .7	2.2	-39.5	30.9	- .9	-1.6	2.1
6	16.70	- 1.1	2.6	1246	926	- .9	2.8	-38.7	29.0	- .7	-1.4	1.6
7	23.10	- 1.1	3.6	1381	917	- 1.1	3.9	-37.6	26.3	- .5	-1.1	1.0
8	30.20	- 1.3	4.9	1388	761	- 1.7	5.3	-35.5	22.8	- .3	- .9	.3
9	37.50	- 1.4	6.3	1344	699	- 2.0	6.0	-33.3	18.0	- .2	- .6	.0
10	44.80	- 1.5	8.0	1233	562	- 2.5	7.7	-29.8	11.1	- .1	- .4	.0
11	51.90	- 1.6	10.0	1033	407	- 3.0	10.0	-23.1	5.6	- .0	- .2	.0
12	59.30	- 1.7	12.0	817	245	- 3.8	14.4	-14.3	1.1	- .0	- .1	.0
13	66.70	- 1.8	15.0	558	177	- 4.7	19.1	-7.1	.2	- .0	- .0	.0
14	72.10	- 1.9	18.0	281	96	- 5.7	25.0	-3.0	.0	- .0	- .0	.0
15	74.30	- 1.9	21.0	114	48	- 6.0	30.0	-1.9	.0	- .0	- .0	.0
16	74.30	- 1.1	0.0	18	12	- 6.7	0.0	- 1.1	.0	- .0	- .0	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 30

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	.0	135	132	-1.8	.2	-20.3	19.7	-.7	-1.0	2.1
2	2.70	-.7	.0	443	407	-1.6	.4	-20.0	19.7	-.7	-1.0	2.1
3	2.90	-.8	.0	695	612	-1.2	.9	-19.3	19.5	-.6	-1.0	1.8
4	6.30	-.4	1.1	919	802	-.4	1	-18.5	19.0	-.5	-.9	1.6
5	11.00	-.2	1.7	1091	904	-.1	1.1	-18.2	17.9	-.5	-.8	1.4
6	16.70	-.1	2.2	1246	926	-.1	1.1	-18.0	16.2	-.4	-.7	1.2
7	23.30	-.5	2.6	1381	917	-.4	1.1	-17.9	14.1	-.3	-.6	.9
8	30.00	-.4	2.6	1368	761	-.3	1.1	-17.4	11.5	-.2	-.5	.7
9	37.50	-.6	2.3	1343	699	-.4	1.1	-17.0	8.9	-.1	-.4	.6
10	44.80	-.2	1.9	1234	562	-.2	1.1	-16.4	5.7	-.0	-.2	.4
11	51.90	-.4	1.1	1031	407	-.4	1.1	-13.8	2.8	-.0	-.1	.3
12	59.30	-.6	.5	817	245	-.5	1.1	-9.9	1.1	-.0	-.1	.1
13	64.00	-.2	.1	558	177	-.4	1.1	-4.9	.6	-.0	-.0	.1
14	69.70	-.1	.1	358	96	-.3	1.1	-2.2	.1	-.0	-.0	.1
15	72.10	-.6	.0	114	48	-.3	1.1	-.7	.0	-.0	-.0	.1
16	74.30	-.1	.0	18	12	-.5	1.1	-.1	.0	-.0	-.0	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 40 CONFIGURATION A

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
REFERENCE PRESSURE 29.0 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	.3	135	132	- 1.1	22.1	- 11.3	28.0	- .8	- .7	9.6
2	.70	- .4	.9	443	407	- .5	22.3	- 11.2	27.8	- .8	- .7	9.5
3	2.90	- .4	1.6	695	612	- .4	22.6	- 10.8	26.8	- .6	- .6	9.3
4	6.30	.4	2.2	919	802	.4	22.8	- 10.4	25.3	- .6	- .6	9.1
5	11.00	.8	2.9	1091	904	.7	23.2	- 10.8	23.3	- .4	- .6	8.9
6	16.70	.8	3.3	1246	926	.7	23.6	- 11.6	20.1	- .4	- .5	8.7
7	23.10	.5	3.7	1381	917	.4	24.1	- 12.4	16.8	- .3	- .5	8.5
8	30.20	.2	3.6	1368	761	1.1	24.7	- 12.9	13.0	- .2	- .4	8.2
9	37.50	- .1	3.7	1343	699	2.2	25.3	- 13.3	9.5	- .1	- .3	7.9
10	44.80	- 2.1	3.1	1234	562	4.4	25.5	- 13.8	5.7	0.0	- .2	7.6
11	51.90	- 4.4	2.7	1031	407	8.8	25.5	- 14.1	2.7	0.0	- .1	7.3
12	58.30	- 3.4	1.5	817	245	11.1	25.7	- 14.1	0.0	0.0	0.0	7.0
13	64.00	- 1.1	1.1	558	177	16.6	25.7	- 14.1	0.0	0.0	0.0	6.7
14	68.70	- .9	1.0	281	96	22.2	25.5	- 14.1	0.0	0.0	0.0	6.4
15	72.10	- .4	1.0	114	48	44.6	25.5	- 14.1	0.0	0.0	0.0	6.1
16	74.30	- .1	1.0	18	12	88.0	25.6	- 14.1	0.0	0.0	0.0	5.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 50

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
REFERENCE PRESSURE 29.0 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
1	0.00	-.2	.3	135	132	-1.5	2.5	-13.2	26.7	-.7	-.7	-1.5
2	.70	-.6	1.0	443	407	-1.4	2.6	-13.0	26.4	-.7	-.7	-1.5
3	2.90	-.8	1.7	695	612	-1.1	2.9	-12.3	25.3	-.7	-.7	-1.4
4	6.30	-.3	2.5	919	802	.3	3.1	-11.6	23.6	-.6	-.6	-1.1
5	11.00	.0	3.0	1091	904	.0	3.3	-11.3	21.1	-.5	-.5	-.9
6	16.70	.3	3.3	1246	926	.2	3.6	-11.3	18.1	-.4	-.4	-.6
7	23.10	.0	3.5	1381	917	.0	3.8	-11.6	14.8	-.2	-.2	-.5
8	30.20	.1	3.2	1368	761	.0	4.2	-11.6	11.3	-.2	-.2	-.5
9	37.50	.1	3.2	1343	699	.1	4.6	-11.6	8.1	-.1	-.1	-.6
10	44.80	.0	2.6	1234	562	.1	4.7	-11.5	4.9	.0	.0	-.7
11	51.90	.0	1.8	1031	407	.1	4.3	-9.8	2.3	.0	.0	-.7
12	58.30	.1	.4	817	245	.1	3.8	-8.8	.2	.0	.0	-.6
13	64.00	.1	.1	558	177	.1	3.3	-7.5	.5	.0	.0	-.4
14	69.70	.1	.0	281	96	.1	2.4	-5.5	.1	.0	.0	-.4
15	72.10	.1	.0	114	48	.1	1.0	-1.4	.0	.0	.0	-.2
16	74.30	.1	.0	18	12	.1	.0	-.1	.0	.0	.0	-.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)												
WIND DIRECTION 60		CONFIGURATION A			REFERENCE PRESSURE 29.0 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	.3	135	132	- 1.7	2.5	- 6.2	19.2	- .5	- .3	- 1.5
2	.70	- .7	1.0	443	407	- 1.6	2.5	- 5.5	18.9	- .4	- .3	- 1.4
3	2.90	- 1.0	1.6	695	612	- 1.4	2.7	- 4.4	17.9	- .4	- .2	- 1.2
4	6.30	- 1.5	2.2	919	802	- 1.6	2.8	- 3.7	16.2	- .4	- .1	- .8
5	11.00	- 2.2	2.5	1091	904	- 2.2	2.8	- 2.2	14.0	- .3	- .2	- .5
6	16.70	- 3.1	2.6	1246	926	- 1.1	2.8	- 1.6	11.5	- .2	- .1	- .3
7	23.10	- 4.2	2.6	1381	917	- .1	2.8	- .7	8.9	- .1	- .1	- .1
8	30.20	- 5.6	2.0	1368	761	- .4	2.7	- .5	6.3	- .1	- .1	- .1
9	37.50	- 7.7	1.8	1343	699	- .6	2.6	- .5	4.4	- .0	- .1	- .1
10	44.80	- 11.6	1.4	1234	562	- 1.5	2.4	- 2.2	2.5	- .0	- .1	- .1
11	51.90	- 17.9	.9	1031	407	- 1.8	2.1	- 1.4	1.1	- .0	- .0	- .1
12	58.30	- 27.4	.2	817	245	- 1.7	1.9	- .8	1.2	- .0	- .0	- .1
13	64.00	- 40.0	.0	558	177	- 1.1	2.2	- .4	.0	- .0	- .0	- .1
14	68.70	- 55.5	.0	381	96	- 1.7	2.0	- .9	.0	- .0	- .0	- .1
15	72.10	- 71.1	.0	114	48	- 2.6	1.0	- 1.1	.0	- .0	- .0	- .1
16	74.30	- 81.1	.0	18	12	- 3.7	1.0	- 1.1	.0	- .0	- .0	- .1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
 WIND DIRECTION 70 CONFIGURATION A REFERENCE PRESSURE 29.0 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
1	0.00	-.3	.2	135	132	-2.6	1.2	.9	5.5	-.1	.2	.2
2	.70	-1.1	.5	443	407	-2.4	1.2	1.2	5.4	-.1	.2	.2
3	2.90	-1.4	.8	695	612	-2.0	1.4	2.3	4.9	-.0	.2	.4
4	6.30	-.9	1.1	919	802	-1.0	1.3	3.7	4.1	-.0	.2	.7
5	11.00	-.4	1.2	1091	904	-.4	1.3	4.6	3.0	-.0	.2	.9
6	16.70	-.0	1.1	1246	926	-.0	1.2	5.0	1.8	-.0	.1	1.0
7	23.10	-.3	.9	1381	917	.2	1.0	5.0	1.8	-.0	.1	1.0
8	30.20	1.0	.4	1368	761	.9	.6	4.7	1.2	-.0	.1	.7
9	37.50	1.1	.0	1343	699	1.1	.0	3.5	1.6	-.0	.0	.4
10	44.80	.9	.3	1234	562	.8	.5	2.0	1.6	-.0	.0	.1
11	51.90	.6	.3	1031	407	.5	.6	1.1	1.3	-.0	.0	.2
12	58.30	-.1	.1	817	245	.7	.3	.6	1.1	-.0	.0	.4
13	64.00	-.5	.0	558	177	.9	.1	.0	1.0	-.0	.0	.5
14	68.70	-.2	.0	281	96	.6	.0	.0	1.0	-.0	.0	.4
15	72.10	-.2	.0	114	48	.6	.0	.0	1.0	-.0	.0	.3
16	74.30	-.1	.0	18	12	.5	.0	.0	1.0	-.0	.0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
WIND DIRECTION 80		CONFIGURATION A				STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)				GUST FACTOR 1.32		
		REFERENCE PRESSURE 29.0 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
1	0.00	- .6	.2	135	132	-4.5	1.3	3.6	.8	.1	.4	.6
2	.70	-2.0	.5	443	407	-4.4	1.1	4.3	.6	.1	.4	.7
3	2.90	-2.6	.7	695	612	-3.7	1.2	6.2	.2	.1	.4	1.1
4	6.30	-1.7	.8	919	802	-1.9	.9	8.8	.6	.1	.4	1.5
5	11.00	-.7	.6	1091	904	-.6	.7	10.6	-1.3	.1	.4	1.8
6	16.70	.1	.5	1246	926	.1	.5	11.2	-1.9	.1	.3	1.9
7	23.10	.9	.5	1381	917	.7	.5	11.1	-2.4	.1	.2	1.8
8	30.20	2.2	.4	1368	761	1.9	.1	10.5	-2.7	.1	.1	1.6
9	37.50	2.9	.1	1343	699	2.1	-1.1	7.7	-2.6	.0	.1	1.4
10	44.80	2.1	.1	1234	562	1.7	-1.6	4.8	-1.9	.0	.0	1.1
11	51.90	1.9	.1	1031	407	1.8	-1.9	2.7	-1.0	.0	.0	.8
12	58.30	1.2	.1	817	245	1.5	-.8	.8	-.2	.0	.0	.4
13	64.00	.5	.1	558	177	.9	-.2	.4	-.0	.0	.0	.1
14	68.70	.4	.0	281	96	1.5	-.0	.9	-.0	.0	.0	.1
15	72.10	.4	.0	114	48	3.5	-.0	.5	-.0	.0	.0	.1
16	74.30	.1	.0	18	12	4.6	-.0	.1	-.0	.0	.0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
 WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 29.0 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	.3	135	132	-2.7	2.5	55.4	-7.0	.5	2.4	-.3
2	.70	- 1.1	.9	443	407	-2.5	2.3	55.7	-7.3	.5	2.4	-.1
3	2.90	- 1.5	1.3	695	612	-1.7	2.2	56.8	-8.2	.5	2.2	-.5
4	6.30	- 2.5	2.1	919	802	-1.6	1.7	58.0	-9.6	.5	2.0	1.3
5	11.00	- 4.4	3.9	1091	904	-1.0	1.0	57.5	-10.9	.4	1.8	1.9
6	16.70	- 6.5	5.3	1246	926	-1.3	.3	55.0	-11.8	.3	1.5	2.2
7	23.10	- 8.5	5.5	1381	917	-1.6	.6	50.5	-12.1	.2	1.1	2.3
8	30.20	- 9.9	6.0	1388	761	-2.4	-	44.1	-11.6	.2	.8	1.9
9	37.50	- 9.9	7.7	1343	699	-4.5	.5	35.1	-9.8	.1	.5	1.1
10	44.80	- 7.7	7.7	1234	562	-5.9	-	25.9	-6.6	.1	.3	.3
11	51.90	- 5.9	5.5	1071	407	-7.6	-	16.7	-3.3	.0	.1	-.6
12	59.30	- 5.9	5.5	817	245	-7.1	-	9.9	-1.1	.0	.0	-.2
13	64.00	- 5.9	5.5	558	177	-5.9	-	5.1	-1.1	.0	.0	-.4
14	69.70	- 4.4	4.4	281	96	-1.1	-	1.1	-1.1	.0	.0	-.1
15	72.10	- 1.1	1.1	114	48	-1.1	-	1.1	-1.1	.0	.0	-.6
16	74.30	- 1.1	1.1	18	12	-1.0	-	1.0	-1.0	.0	.0	-.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :

WIND DIRECTION 100

CONFIGURATION A

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)

REFERENCE PRESSURE 29.0 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	.1	135	132	- .5	.6	102.7	-10.2	.6	3.9	.6
2	.70	- .1	.3	443	407	- .2	.8	102.7	-10.3	.6	3.8	.7
3	2.90	1.2	.9	695	612	1.7	1.4	102.6	-10.6	.6	3.6	1.0
4	6.30	4.4	1.3	919	802	4.8	1.6	101.5	-11.1	.6	3.5	1.6
5	7.40	7.4	1.3	1091	904	6.8	1.5	97.1	-12.7	.5	3.0	2.1
6	11.60	9.9	.8	1246	925	8.0	1.1	89.7	-14.0	.4	2.2	2.4
7	12.70	12.6	.2	1381	917	9.1	.2	79.8	-14.9	.3	1.7	2.4
8	14.20	14.6	2.4	1368	761	10.6	1.1	67.2	-14.7	.2	1.2	2.0
9	14.75	14.3	4.1	1343	699	11.0	.8	52.6	-12.3	.1	.7	1.0
10	16.00	13.3	4.2	1234	562	10.7	.6	37.9	-8.2	.1	.4	1.1
11	17.10	10.8	3.1	1031	407	10.5	.5	24.6	-4.0	.0	.2	-1.2
12	18.80	8.4	1.8	817	245	10.3	.1	13.8	-1.9	.0	.1	-1.9
13	20.20	5.2	1.1	558	177	9.3	.8	5.4	-1.1	.0	.0	-2.0
14	21.30	3.4	.8	317	96	3.0	.0	.3	.0	.0	.0	-1.6
15	22.70	1.4	.0	114	48	3.6	.0	.6	.0	.0	.0	-1.9
16	24.30	-.2	.0	18	12	9.2	.0	.2	.0	.0	.0	-1.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 110

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
REFERENCE PRESSURE 29.0 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	- .3	135	132	-2.6	-2.6	66.8	-10.2	.5	2.5	3.9
2	.70	- .9	- .8	443	407	-1.9	-1.9	67.1	-9.8	.5	2.5	3.8
3	2.90	- .2	- .4	695	612	- .2	- .6	68.0	-9.0	.5	2.3	3.4
4	6.30	2.5	.4	919	802	2.7	1.5	68.2	-8.7	.4	2.1	3.1
5	11.00	4.9	1.1	1091	904	4.5	1.2	65.5	-9.1	.4	1.8	3.0
6	16.70	6.9	1.2	1246	926	5.6	1.2	60.8	-10.2	.3	1.4	2.9
7	23.10	8.8	1.4	1381	917	6.4	1.2	55.3	-11.3	.3	1.1	2.8
8	30.20	10.6	-1.8	1568	761	7.8	-2.2	44.0	-11.7	.2	.7	2.4
9	37.50	10.6	-3.3	1343	699	7.9	-4.4	33.4	-10.0	.1	.4	1.7
10	44.80	9.4	-3.5	1234	562	7.6	-6.2	23.4	-9.7	.1	.2	1.3
11	51.90	8.0	-2.5	1031	407	7.7	-6.1	14.4	-3.2	.0	.1	.9
12	58.30	6.2	-1.6	817	245	6.4	-2.5	6.4	-1.7	.0	.0	.6
13	64.00	2.4	- .1	558	177	4.3	- .6	1.1	- .1	.0	.0	.2
14	68.70	- .4	- .0	281	96	-1.3	- .1	- .1	- .0	.0	.0	.0
15	72.10	- .7	- .0	114	48	-5.7	- .0	- .1	- .0	.0	.0	.0
16	74.30	- .1	- .0	18	12	-8.1	- .0	- .1	- .0	.0	.0	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 120

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	- .3	135	132	-2.7	-2.4	71.1	-20.4	.7	2.9	5.6
2	2.70	-1.1	-.9	443	407	-2.4	-2.1	71.4	-20.1	.7	2.8	5.5
3	2.90	-1.8	-.9	695	612	-1.1	-1.4	72.5	-19.2	.7	2.7	5.5
4	6.30	1.7	-.6	919	802	1.8	-1.0	73.3	-18.4	.6	2.4	5.5
5	11.00	4.1	-.7	1091	904	3.7	-.8	71.6	-17.6	.5	2.1	5.5
6	16.70	6.2	-.9	1246	926	5.0	-1.0	67.6	-16.8	.4	1.7	5.4
7	23.10	8.3	-1.4	1381	917	6.0	-1.5	61.3	-15.9	.3	1.1	5.2
8	30.20	10.9	-2.6	1368	761	8.0	-3.4	53.0	-14.5	.2	.9	5.4
9	37.50	12.1	-4.0	1343	699	9.0	-5.7	42.1	-12.0	.1	.5	5.3
10	44.80	11.8	-4.1	1234	562	9.6	-7.2	29.9	-8.0	.1	.3	5.1
11	51.90	11.0	-3.0	1031	407	10.7	-7.4	18.1	-3.9	.0	.1	5.0
12	58.30	6.5	-.8	817	245	7.9	-3.1	7.1	-.9	.0	.0	5.8
13	64.00	2.3	-.1	558	177	4.1	-.8	.7	-.1	.0	.0	5.5
14	68.70	-.7	-.0	281	96	-2.5	-.0	-1.6	-.0	.0	.0	5.9
15	72.10	-.8	-.0	114	48	-6.7	-.0	-.9	-.0	.0	.0	5.5
16	74.30	-.1	-.0	18	12	-7.6	-.0	-.1	-.0	.0	.0	5.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 130

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-1.7	135	132	-6.7	-5.4	75.9	-27.5	.9	33.3	7.7
2	2.70	-2.6	-1.9	443	407	-5.9	-4.7	76.8	-26.8	.9	33.3	7.7
3	2.90	-2.3	-2.0	695	612	-3.3	-3.3	79.4	-24.9	.8	33.1	6.6
4	6.30	-1.7	-1.8	919	802	-1.8	-2.2	81.7	-22.9	.7	32.8	6.2
5	11.00	3.8	-1.3	1091	904	3.5	-1.4	80.9	-21.1	.6	22.4	5.8
6	16.70	6.5	-1.1	1246	926	5.2	-1.2	77.2	-19.9	.5	22.0	5.3
7	23.10	9.1	-1.6	1381	917	6.6	-1.7	70.7	-18.8	.4	17.2	4.8
8	30.20	12.7	-3.2	1368	761	9.3	-4.2	61.6	-17.2	.3	11.0	4.0
9	37.50	14.3	-4.8	1343	699	10.7	-6.8	48.9	-14.0	.2	6.6	2.7
10	44.80	13.6	-4.8	1234	562	11.0	-8.5	34.6	-9.2	.1	3.3	1.3
11	51.90	12.4	-3.4	1031	407	12.1	-8.4	21.0	-4.4	.0	1.1	1.0
12	58.30	7.4	-1.8	817	245	9.1	-5.5	8.6	-1.0	.0	.0	1.0
13	64.00	2.8	-1.2	558	177	5.0	-3.9	1.2	-2.2	.0	.0	1.1
14	68.70	1.1	-1.0	281	96	2.3	-1.0	1.1	-1.1	.0	.0	1.1
15	72.10	1.1	-1.0	114	48	0.0	-1.0	1.1	-1.1	.0	.0	1.1
16	74.30	1.1	-1.0	18	12	0.4	-1.0	1.2	-1.0	.0	.0	1.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
 WIND DIRECTION 140° CONFIGURATION A REFERENCE PRESSURE 29.0 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	GUST FACTOR 1.32		
										X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-1.3	-1.0	135	132	-9.3	-7.6	-11.9	-18.4	.4	.2	7.4
3	2.70	-4.1	-2.8	443	407	-9.3	-6.8	-10.6	-17.4	.3	.2	7.0
4	6.30	-5.4	-3.2	695	612	-7.8	-5.2	-6.5	-14.6	.3	.2	5.9
5	11.00	-4.5	-2.9	919	802	-4.9	-3.6	-1.1	-11.4	.3	.3	4.7
6	16.70	-3.2	-1.8	1091	904	-2.9	-2.0	3.4	-8.3	.2	.3	3.6
7	23.10	-2.0	-1.0	1246	926	-1.6	-1.9	6.6	-6.7	.2	.2	2.8
8	30.20	-1.6	-1.3	1381	917	-1.4	-1.3	8.6	-5.9	.1	.2	2.3
9	37.50	1.6	-1.7	1368	761	1.2	-1.9	9.2	-5.6	.1	.1	1.9
10	44.80	2.4	-1.5	1343	699	1.8	-1.2	7.6	-4.9	.1	.1	1.6
11	51.90	3.2	-1.7	1234	562	2.2	-1.1	5.2	-4.4	.0	.0	1.0
12	58.30	4.7	-1.3	1031	407	3.1	-0.3	2.6	-1.6	.0	.0	.4
13	64.00	1.4	-1.3	817	245	1.8	-1.3	-1.7	-1.4	.0	.0	.1
14	68.70	-1.2	-1.1	558	177	1.4	-1.3	-2.1	-1.1	.0	.0	.4
15	72.10	-1.7	-1.0	281	96	4.0	-1.0	-1.9	-1.0	.0	.0	.4
16	74.30	-1.1	-1.0	114	48	5.9	-1.0	-1.1	-1.0	.0	.0	.2
				18	12	4	-1.0	-1.1	-1.0	.0	.0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 150

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-.6	135	132	-3.3	-4.2	-9.1	-8.8	.1	-.1	6.4
2	7.70	-1.6	-1.6	443	407	-3.3	-4.2	-8.6	-8.2	.0	-.1	1.1
3	15.40	-2.3	-1.9	695	612	-3.3	-4.2	-7.0	-6.7	.0	-.1	4.4
4	23.10	-2.0	-2.0	919	802	-2.2	-2.2	-4.7	-4.7	.0	-.1	5.5
5	30.80	-1.6	-1.6	1091	904	-1.5	-1.5	-2.7	-2.8	.0	-.1	5.5
6	38.50	-1.2	-1.1	1246	926	-1.0	-1.0	-1.1	-1.2	.0	-.1	5.5
7	46.20	-.9	-.6	1381	917	-.6	-.6	1.1	-.1	.0	-.1	5.5
8	53.90	-.7	-.3	1368	761	-.5	-.4	1.0	-.1	.0	-.1	1.1
9	61.60	1.2	.1	1343	699	.9	.1	-.3	-.9	.0	-.1	3.3
10	69.30	.9	.3	1234	562	.7	.6	-.9	-.8	.0	-.1	3.3
11	77.00	1.0	.3	1031	407	.9	.9	-1.8	-.9	.0	-.1	1.1
12	84.70	-.2	.1	817	245	-.3	.4	-2.8	1.0	.0	-.1	1.1
13	92.40	-.9	.0	558	177	-1.6	.1	-2.6	1.0	.0	-.1	1.1
14	100.10	-1.1	.0	281	96	-3.8	.0	-1.7	1.1	.0	-.1	1.1
15	107.80	-.5	.0	114	48	-4.7	.0	-.6	1.1	.0	-.1	1.1
16	115.50	-.1	.0	18	12	-4.2	.0	-.1	1.1	.0	-.1	1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)

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	-.2	135	132	-.5	-1.5	-3.5	-.0	-.1	-.1	4.0
2	2.70	-.4	-.6	443	407	-1.0	-1.4	-3.4	-.2	-.1	-.1	3.9
3	6.30	-.8	-.7	695	612	-1.1	-1.1	-3.0	-.8	-.1	-.1	3.5
4	11.00	-1.4	-.5	915	802	-.6	-.8	-2.2	-1.4	-.1	-.1	3.0
5	16.70	-2.5	-.2	1091	904	-.4	-.5	-1.6	-1.1	-.1	-.1	2.5
6	23.10	-3.5	.0	1244	926	-.4	-.2	-1.2	-1.1	-.1	-.1	2.0
7	30.20	-4.8	.3	1381	917	-.3	.0	-.7	-1.1	-.1	-.1	1.7
8	37.50	1.0	.7	1368	761	.6	.3	-1.2	-1.1	-.0	-.1	.3
9	44.80	.3	.9	1343	699	.7	1.0	-1.0	-1.1	-.0	-.1	.0
10	51.90	.0	.7	1234	562	.2	1.5	-1.9	-1.1	-.0	-.1	.0
11	58.30	-.5	.2	1031	407	.0	1.8	-2.2	-1.1	-.0	-.0	.2
12	64.00	-.6	.0	817	245	.6	.8	-2.2	-.2	-.0	-.0	.1
13	68.70	-.7	-.0	558	177	1.1	.2	-1.8	-.0	-.0	-.0	.1
14	72.10	-.4	-.0	281	96	2.5	.0	-1.2	-.0	-.0	-.0	.1
15	74.30	-.1	-.0	114	48	5.3	.0	-.4	-.0	-.0	-.0	.1
16				18	12	3.4	.0	-.1	-.0	-.0	-.0	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 170

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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
1	0.00	.0	.1	135	132	.0	-1.0	5.7	3.1	.2	.2	2.5
2	.70	.2	.4	443	407	.5	.9	5.7	3.3	.2	.2	5.5
3	1.40	.5	.4	695	612	.7	.7	5.5	3.6	.2	.2	5.5
4	2.10	.8	.4	919	802	.9	.5	5.5	4.0	.2	.2	4.4
5	2.80	1.1	.2	1091	904	1.1	.2	5.5	4.4	.1	.1	2.2
6	3.50	1.5	.0	1246	926	1.4	.0	5.5	4.6	.1	.1	2.2
7	4.20	2.0	.3	1381	917	1.7	.3	5.5	4.8	.1	.1	2.2
8	4.90	2.4	.6	1368	761	1.8	.8	5.5	4.8	.1	.1	2.2
9	5.60	2.8	1.0	1234	699	1.8	1.1	5.5	4.8	.0	.0	2.2
10	6.30	3.2	1.3	1031	562	1.8	1.4	5.5	4.8	.0	.0	2.2
11	7.00	3.5	1.6	817	407	1.8	1.7	5.5	4.8	.0	.0	2.2
12	7.70	3.8	1.9	558	245	1.8	2.0	5.5	4.8	.0	.0	2.2
13	8.40	4.1	2.2	281	177	1.8	2.3	5.5	4.8	.0	.0	2.2
14	9.10	4.4	2.5	114	96	1.8	2.6	5.5	4.8	.0	.0	2.2
15	9.80	4.7	2.8	48	12	1.8	2.9	5.5	4.8	.0	.0	2.2
16	10.50	5.0	3.1	18	12	1.8	3.2	5.5	4.8	.0	.0	2.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)

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	-.4	135	132	.8	-.2	14.9	-4.4	-.1	.5	5.6
2	2.70	.1	-1.1	443	407	.2	-.1	14.8	-4.0	-.1	.5	4.4
3	5.40	.1	-1.4	695	612	.1	-.1	14.7	-3.9	-.1	.5	4.7
4	8.10	.4	-1.5	919	802	.4	-.1	14.8	-3.5	-.1	.5	3.8
5	10.80	.9	-1.3	1091	904	.5	-.1	14.4	-3.0	-.1	.5	2.8
6	13.50	1.5	-.9	1246	926	.9	-.6	13.5	-2.3	-.1	.5	1.9
7	16.20	2.1	-.5	1381	917	1.5	-.6	12.0	-1.1	-.1	.5	1.0
8	18.90	3.2	.1	1368	761	2.4	.1	9.9	-.8	-.1	.5	.2
9	21.60	3.1	.7	1343	699	2.3	1.0	6.7	-.7	-.1	.5	.2
10	24.30	2.3	.9	1234	562	1.9	1.7	3.6	-.0	-.0	.5	.0
11	27.00	1.6	.8	1031	407	1.6	1.9	1.3	-.1	-.0	.5	.6
12	29.70	.7	.2	817	245	.8	.8	.3	-.2	-.0	.5	.4
13	32.40	.0	.0	558	177	.0	.2	-.0	-.0	-.0	.5	.3
14	35.10	.5	.0	281	96	.9	.0	-.0	-.0	-.0	.5	.2
15	37.80	.4	.0	114	48	3.3	.0	-.5	-.0	-.0	.5	.1
16	40.50	.1	.0	18	12	4.0	.0	-.1	-.0	-.0	.5	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 190

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-.5	135	132	.9	-3.6	30.1	1.3	-.3	1.0	7.8
2	0.70	.2	-1.4	443	407	.5	-3.3	30.0	1.1	-.3	1.0	7.4
3	2.90	.3	-1.7	695	612	.7	-3.0	29.7	.8	-.3	.9	7.4
4	6.30	.5	-1.6	919	802	.4	-2.0	29.3	.5	-.3	.8	6.1
5	11.00	.7	-1.2	1091	904	.4	-1.0	28.0	.3	-.3	.7	5.8
6	16.70	1.0	-.6	1244	926	.4	-.6	25.0	.0	-.3	.6	5.4
7	23.10	1.4	-.0	1381	917	.7	-1.0	22.9	.0	-.3	.4	5.2
8	30.20	1.9	.8	1368	761	.4	1.0	19.2	.2	-.2	.2	5.0
9	37.50	2.5	2.1	1343	699	.3	3.1	13.7	.5	-.1	.1	4.8
10	44.80	3.3	2.6	1234	562	.3	4.6	7.8	.3	-.0	.0	4.6
11	51.90	4.2	2.1	1031	407	.2	5.2	3.5	.2	-.0	.0	4.4
12	58.30	5.1	.5	817	245	1.5	2.2	1.5	.7	-.0	.0	4.2
13	64.00	6.1	.1	558	177	3.3	.5	.7	.1	-.0	.0	4.0
14	68.70	7.1	-.0	281	96	-1.6	-.0	.9	.0	-.0	.0	3.8
15	72.10	8.1	-.0	114	48	-2.9	-.0	.4	.0	-.0	.0	3.6
16	74.30	9.1	-.0	18	12	-3.9	-.0	.1	.0	-.0	.0	3.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 200

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.07 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	- .5	135	132	-1.7	-4.0	4.1	-2.9	.1	.2	6.6
2	.70	- .8	-1.5	443	407	-1.7	-3.6	4.3	-2.4	.1	.2	6.3
3	2.90	-1.0	-1.7	695	612	-1.4	-2.8	5.1	-1.9	.2	.2	5.4
4	6.30	- .6	-1.6	919	802	- .6	-2.0	6.1	- .8	.2	.1	4.9
5	11.00	- .1	-1.1	1091	904	- .1	-1.2	6.6	-2.4	.1	.1	3.2
6	16.70	- .6	- .9	1246	926	- .5	- .6	6.7	-3.2	.1	.1	2.2
7	23.10	1.0	- .1	1381	917	- .1	- .1	6.2	-4.0	.1	.0	1.1
8	30.20	2.6	1.2	1368	761	1	1	5.2	-4.1	.1	.0	.6
9	37.50	3.0	1.0	1343	699	2	1.5	5.5	-3.9	.0	.0	.1
10	44.80	2.5	1.4	1234	562	1	2.4	4.4	-2.9	.0	.0	.1
11	51.90	1.7	1.2	1031	407	1	2.8	3.9	-1.5	.0	.0	.1
12	58.30	1.1	1.1	817	245	1	2.8	3.1	- .4	.0	.0	.1
13	64.00	1.1	1.1	558	177	1	3.3	2.6	- .1	.0	.0	.1
14	69.70	1.1	1.0	281	96	1	4.0	2.1	- .0	.0	.0	.1
15	72.10	1.4	1.0	114	48	1	5.0	1.5	- .0	.0	.0	.1
16	74.30	1.1	1.0	18	12	3.4	1.0	1.1	- .0	.0	.0	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 210

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-.3	-.6	135	132	-2.4	-4.5	-10.1	-4.2	-.1	-.4	7.1
2	2.70	-.3	-.6	443	407	-2.6	-3.9	-9.8	-3.6	-.1	-.4	5.6
3	2.90	-.3	-.6	695	612	-2.3	-2.9	-8.6	-2.6	-.1	-.4	4.3
4	6.30	-.3	-.6	919	802	-1.4	-1.9	-7.0	-2.2	-.1	-.4	3.1
5	11.00	-.3	-.6	1091	904	-.9	-1.4	-5.7	-1.3	-.1	-.4	2.1
6	16.70	-.3	-.6	1246	926	-.5	-1.1	-4.7	-.9	-.1	-.4	1.4
7	23.10	-.3	-.6	1381	917	-.4	-.6	-4.1	-.4	-.1	-.4	.8
8	30.20	-.3	-.6	1368	761	-.8	-.1	-3.6	-.3	-.0	-.4	.6
9	37.50	-.3	-.6	1343	699	-.9	-.8	-4.7	-.3	-.0	-.4	.4
10	44.80	-.3	-.6	1234	562	-.7	1.4	-5.9	1.7	-.0	-.4	.2
11	51.90	-.3	-.6	1031	407	-1.8	1.7	-5.5	1.9	-.0	-.4	.1
12	58.30	-.3	-.6	817	245	-2.6	1.8	-4.7	2.2	-.0	-.4	.1
13	64.00	-.3	-.6	558	177	-4.2	2.2	-3.3	2.0	-.0	-.4	.1
14	68.70	-.3	-.6	281	96	-4.8	2.1	-1.8	1.0	-.0	-.4	.1
15	72.10	-.3	-.6	114	48	-4.8	1.0	-.6	-.0	-.0	-.4	.1
16	74.30	-.3	-.6	19	12	-4.3	1.0	-.1	-.0	-.0	-.4	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 29.0 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	-2.2	-1.3	135	132	-1.3	-2.1	-18.8	-1.2	-1.0	-1.8	4.4
2	7.60	-1.8	-1.7	443	407	-1.7	-1.7	-18.7	-1.9	-1.0	-1.7	4.4
3	15.20	-1.2	-1.6	695	612	-1.8	-1.9	-17.9	-1.1	-1.0	-1.4	5.5
4	22.80	-1.1	-1.1	919	802	-1.2	-1.1	-17.7	-1.1	-1.0	-1.1	7.7
5	30.40	-1.1	-1.1	1091	904	-1.0	-1.1	-16.6	-1.1	-1.0	-1.1	5.0
6	38.00	-1.1	-1.1	1246	926	-1.1	-1.1	-14.4	-1.1	-1.0	-1.1	5.5
7	45.60	-2.1	-1.5	1381	717	-1.1	-1.1	-14.0	-1.1	-1.0	-1.1	1.1
8	53.20	-1.5	-1.1	1368	761	-1.4	-1.1	-10.9	-1.1	-1.0	-1.1	1.0
9	60.80	-1.9	-1.1	1234	589	-1.1	-1.1	-10.3	-1.1	-1.0	-1.1	1.1
10	68.40	-2.0	-1.2	1031	407	-1.1	-1.1	-10.0	-1.1	-1.0	-1.1	1.1
11	76.00	-2.3	-1.1	817	245	-2.1	-1.1	-8.1	-1.1	-1.0	-1.1	1.1
12	83.60	-1.1	-1.1	558	177	-3.3	-1.1	-5.8	-1.1	-1.0	-1.1	1.1
13	91.20	-1.1	-1.1	281	96	-4.4	-1.1	-2.0	-1.1	-1.0	-1.1	1.1
14	98.80	-1.1	-1.1	114	48	-5.5	-1.1	-1.7	-1.1	-1.0	-1.1	1.1
15	106.40	-1.1	-1.1	18	12	-4.6	-1.1	-1.1	-1.1	-1.0	-1.1	1.1
16	114.00	-1.1	-1.1							-1.0	-1.1	1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :												
STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)												
WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 29.0 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	- .4	135	132	- 1.3	- 2.9	- 25.5	- 15.3	.4	- 1.2	4.4
2	.70	- .7	- 1.0	443	407	- 1.7	- 2.5	- 25.3	- 14.9	.4	- 1.1	4.2
3	2.90	- 1.2	- 1.1	695	612	- 1.7	- 1.8	- 24.6	- 13.9	.4	- 1.1	3.6
4	6.30	- 1.1	- 1.1	919	802	- 1.1	- 1.4	- 23.4	- 12.8	.4	- 1.0	3.0
5	11.00	- 1.1	- 1.0	1091	904	- .9	- 1.1	- 22.4	- 11.7	.3	- .9	2.5
6	16.70	- 1.1	- 1.2	1246	926	- 1.1	- 1.3	- 21.3	- 10.7	.3	- .8	2.1
7	23.10	- 1.1	- 1.9	1381	917	- 1.7	- 2.1	- 20.0	- 9.4	.1	- .6	1.9
8	30.20	- 1.1	- 2.7	1368	761	- 1.7	- 3.6	- 17.7	- 7.6	.1	- .5	1.6
9	37.50	- 1.1	- 2.3	1343	699	- 1.7	- 3.3	- 16.8	- 6.6	.0	- .4	1.3
10	44.80	- 1.1	- 1.6	1234	562	- 2.0	- 2.8	- 16.0	- 5.5	.0	- .3	1.1
11	51.90	- 1.1	- .7	1031	407	- 3.3	- 1.8	- 13.2	- 4.2	.0	- .1	.9
12	58.30	- 1.1	- .2	817	245	- 4.6	- .6	- 9.8	- 2.2	.0	- .1	.6
13	64.00	- 1.1	- .0	558	177	- 5.2	- .2	- 6.0	- .0	.0	- .0	.4
14	68.70	- 1.1	- .0	281	96	- 7.5	- .0	- 3.1	- .0	.0	- .0	.3
15	72.10	- .9	- .0	114	48	- 8.1	- .0	- 1.0	- .0	.0	- .0	.2
16	74.30	- .1	- .0	18	12	- 6.8	- .0	- .1	- .0	.0	- .0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
 WIND DIRECTION 240 . CONFIGURATION A REFERENCE PRESSURE 29.0 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	GUST FACTOR 1.32		
										X-MOMENT 1000-FT-KIPS	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
1	0.00	-1.1	-1.3	135	132	-1.0	-2.6	-31.9	-23.8	.7	-1.4	5.1
2	7.0	-1.6	-1.0	443	407	-1.4	-2.4	-31.7	-23.4	.7	-1.4	4.9
3	14.0	-1.1	-1.2	695	612	-1.6	-1.9	-31.1	-22.4	.7	-1.3	4.5
4	21.0	-1.0	-1.4	919	802	-1.1	-1.7	-30.0	-21.3	.6	-1.2	4.1
5	28.0	-1.1	-1.7	1091	904	-1.0	-1.9	-29.0	-19.9	.5	-1.1	3.8
6	35.0	-1.7	-2.2	1246	926	-1.3	-2.4	-27.9	-18.2	.4	-.9	3.5
7	42.0	-2.9	-1.1	1381	917	-2.1	-3.4	-26.2	-16.0	.3	-.7	3.2
8	49.0	-2.5	-4.0	1368	761	-1.8	-3.3	-23.3	-12.9	.2	-.6	2.9
9	56.0	-2.6	-3.8	1343	699	-1.9	-3.5	-20.8	-9.9	.1	-.4	2.6
10	63.0	-4.0	-3.9	1234	562	-3.2	-4.1	-18.2	-6.0	.0	-.3	2.3
11	70.0	-4.0	-3.7	1031	407	-4.9	-5.1	-14.2	-2.0	.0	-.2	1.9
12	77.0	-4.0	-4.4	817	243	-9.9	-6.6	-10.2	-1.0	.0	-.1	1.6
13	84.0	-2.9	-1.1	558	177	-5.2	-4.4	-6.2	-.1	.0	-.0	1.1
14	91.0	-2.2	-1.0	281	96	-7.7	-1.0	-3.3	.0	.0	-.0	.8
15	98.0	-1.0	-1.0	114	48	-5.5	-1.0	-1.1	.0	.0	-.0	.6
16	105.0	-1.1	-1.0	18	12	-7.1	-1.0	-.1	.0	.0	-.0	.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 250

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
REFERENCE PRESSURE 29.0 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	-1.5	135	132	1.1	-3.6	-42.5	-46.3	1.5	-2.0	3.0
2	6.70	1	-1.3	443	407	1.1	-3.3	-42.6	-44.9	1.5	-2.0	2.8
3	13.40	1	-1.7	695	612	1.1	-2.8	-42.7	-44.4	1.4	-1.9	2.4
4	20.10	1	-2.1	919	802	1.1	-2.6	-42.3	-42.8	1.3	-1.8	2.1
5	26.80	1	-2.7	1091	904	1.1	-2.0	-42.1	-40.0	1.1	-1.6	1.9
6	33.50	1	-3.9	1246	926	1.3	-1.3	-41.6	-33.7	.8	-1.1	2.1
7	40.20	1	-5.7	1381	917	2.5	-0.6	-39.9	-34.0	.6	-1.1	2.7
8	46.90	1	-7.8	1368	761	3.6	-1.0	-36.5	-28.8	.4	-1.1	3.2
9	53.60	1	-8.2	1343	699	4.4	-1.1	-31.1	-20.0	.2	-1.1	4.9
10	60.30	1	-6.8	1234	562	5.4	-1.2	-25.6	-15.5	.1	-1.1	4.6
11	67.00	1	-4.3	1031	407	6.3	-1.0	-18.9	-10.5	.0	-1.1	3.2
12	73.70	1	-1.0	817	245	6.1	-4.2	-12.5	-10.5	.0	-1.1	1.1
13	80.40	1	-1.0	558	177	8.8	-1.0	-7.5	-10.2	.0	-1.1	1.2
14	87.10	1	-1.0	289	96	8.8	-1.0	-4.5	-10.2	.0	-1.1	1.7
15	93.80	1	-1.0	114	48	9.9	-1.0	-1.8	-10.2	.0	-1.1	1.5
16	100.50	1	-1.0	18	12	9.9	-1.0	-1.2	-10.2	.0	-1.1	1.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 260

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-1.0	-6	135	132	-1.1	-4.9	-57.8	-60.2	1.9	-2.7	6.0
2	2.70	-1.3	-2.0	443	407	-1.7	-4.8	-57.8	-55.6	1.8	-2.6	5.9
3	6.30	-1.9	-3.8	695	612	-1.3	-4.5	-57.4	-55.6	1.7	-2.6	5.9
4	11.00	-2.3	-4.8	919	802	-1.0	-4.4	-56.5	-55.6	1.5	-2.6	5.9
5	16.70	-2.3	-6.0	1091	904	-1.2	-5.5	-55.6	-51.1	1.3	-2.6	5.9
6	23.10	-4.4	-7.6	1246	926	-1.9	-6.6	-54.4	-46.4	1.0	-2.7	5.9
7	30.20	-6.5	-9.0	1381	917	-3.2	-8.3	-52.0	-40.4	.7	-1.4	5.9
8	37.50	-8.0	-9.5	1368	761	-4.8	-11.1	-47.6	-33.0	.5	-1.0	5.9
9	44.80	-9.4	-7.8	1343	699	-6.0	-13.5	-41.0	-23.2	.2	-1.0	5.9
10	51.90	-8.4	-5.8	1234	562	-7.6	-14.0	-33.0	-14.4	.1	-1.4	5.9
11	58.30	-6.3	-5.1	1031	407	-8.6	-12.5	-23.6	-6.7	.0	-1.2	4.0
12	64.00	-4.9	-2.2	817	245	-7.7	-5.0	-14.7	-1.5	.0	-1.1	1.5
13	68.70	-3.8	-1.0	558	177	-6.8	-1.2	-8.4	-.2	.0	-1.0	1.2
14	72.10	-2.5	-1.0	281	96	-10.3	-1.0	-4.6	.0	.0	-1.0	1.1
15	74.30	-1.5	-1.0	114	48	-13.1	-1.0	-1.7	.0	.0	-1.0	1.1
16		-1.2	-1.0	18	12	-12.0	-1.0	-1.2	.0	.0	-1.0	1.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 270°

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.0 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 KIPS
1	0.00	-1.1	-1.4	135	132	-1.5	-3.2	-59.1	-38.3	1.3	-2.4	3.1
2	.70	-1.5	-1.1	443	407	-1.2	-2.9	-59.1	-37.9	1.2	-2.4	3.0
3	2.90	-1.3	-1.1	695	612	-1.9	-2.4	-58.6	-36.7	1.2	-2.3	2.9
4	6.30	-1.9	-1.1	919	802	-2.0	-2.2	-57.3	-35.2	1.0	-2.1	2.8
5	11.00	-2.7	-2.2	1091	904	-2.5	-2.2	-55.4	-33.5	.9	-1.8	2.7
6	16.70	-4.2	-3.2	1246	926	-3.3	-2.2	-52.7	-31.2	.7	-1.5	2.6
7	23.10	-6.3	-4.4	1381	917	-4.6	-2.2	-48.5	-28.2	.5	-1.2	2.5
8	30.20	-7.3	-5.5	1368	761	-5.4	-2.2	-42.2	-23.3	.3	-.9	2.4
9	37.30	-8.0	-6.6	1343	699	-6.0	-2.2	-34.4	-18.0	.2	-.6	2.3
10	44.80	-8.2	-7.5	1234	562	-6.6	-2.2	-26.6	-12.4	.1	-.4	2.2
11	51.90	-6.3	-8.0	1031	407	-6.1	-2.2	-18.8	-7.4	.0	-.2	2.1
12	58.30	-5.0	-8.8	817	243	-6.1	-2.2	-12.4	-4.4	.0	-.1	2.0
13	64.00	-3.6	-1.1	558	177	-6.4	-2.2	-7.7	-1.1	.0	.0	1.9
14	68.70	-2.5	.0	281	96	-8.9	-2.2	-3.8	.0	.0	.0	1.8
15	72.10	-1.2	.0	114	48	-10.1	-2.2	-1.3	.0	.0	.0	1.7
16	74.30	-1.1	.0	18	12	-7.9	-2.2	.0	.0	.0	.0	1.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS : STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
 WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 29.0 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	.0	-.8	135	132	.0	-.5	-90.0	-83.0	2.6	-3.4	3.6
2	2.70	-.7	-2.3	443	407	-1.5	-.7	-90.0	-82.2	2.6	-3.3	3.4
3	6.30	-2.4	-3.3	695	612	-3.4	-.4	-89.3	-79.9	2.4	-3.1	3.0
4	11.00	-4.4	-4.3	919	802	-4.3	-.8	-86.9	-76.6	2.1	-2.8	2.7
5	16.70	-5.9	-6.2	1091	904	-5.4	-.9	-82.9	-71.1	1.8	-2.4	2.4
6	23.40	-8.3	-8.3	1246	926	-6.6	-.9	-77.0	-65.3	1.4	-2.0	2.0
7	30.10	-11.3	-11.1	1381	917	-8.1	-.1	-68.7	-57.4	1.0	-1.5	1.5
8	37.20	-12.0	-13.3	1368	761	-8.8	-.5	-57.5	-46.4	.6	-1.1	1.1
9	44.80	-12.5	-13.5	1343	699	-9.3	-.3	-45.5	-33.1	.3	-.7	.7
10	51.10	-11.3	-10.9	1234	562	-9.2	-.3	-32.9	-19.3	.1	-.4	.4
11	58.90	-7.5	-6.8	1031	407	-7.2	-.7	-21.6	-8.7	.0	-.2	.2
12	68.30	-5.5	-1.6	817	245	-6.7	-.7	-14.1	-1.9	.0	-.1	.1
13	74.00	-4.1	-.3	558	177	-7.4	-.6	-8.6	-.3	.0	-.0	.0
14	80.70	-3.0	-.0	281	96	-10.6	-.0	-4.5	-.0	.0	-.0	.0
15	87.10	-1.4	-.0	114	48	-12.1	-.0	-1.5	-.0	.0	-.0	.0
16	94.30	-.2	-.0	18	12	-8.6	-.0	-.2	-.0	.0	-.0	.0

TABLE 7: SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 290

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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
1	0.00	-1.1	-1.6	135	132	-1.0	-4.3	-90.8	-71.5	2.3	-3.3	4.2
2	0.70	-1.1	-1.7	443	407	-2.5	-4.2	-90.6	-70.9	2.3	-3.2	4.0
3	2.90	-3.0	-2.5	695	612	-4.3	-4.1	-89.5	-69.2	2.1	-3.0	3.7
4	6.30	-4.9	-3.6	919	802	-5.3	-4.5	-86.5	-66.7	1.9	-2.7	3.3
5	11.00	-6.9	-5.1	1091	904	-6.4	-5.6	-81.7	-63.1	1.6	-2.3	3.0
6	16.70	-9.3	-7.0	1246	926	-7.4	-7.4	-74.7	-58.0	1.2	-1.9	2.6
7	23.10	-11.9	-9.7	1381	917	-8.4	-10.5	-65.5	-51.1	.9	-1.4	2.3
8	30.20	-11.6	-11.7	1368	761	-8.5	-15.4	-53.6	-41.3	.3	-1.0	2.0
9	37.50	-11.6	-12.0	1343	699	-8.6	-17.1	-43.0	-29.9	.3	-.7	1.7
10	44.80	-10.1	-9.7	1234	623	-8.2	-17.7	-33.0	-17.7	.1	-.4	1.4
11	53.90	-6.4	-6.2	1033	407	-6.2	-15.3	-20.0	-11.0	.0	.0	1.0
12	64.30	-5.5	-4.5	817	245	-5.4	-12.7	-13.0	-7.7	.0	.0	.8
13	76.00	-4.2	-3.3	558	177	-4.2	-9.5	-8.3	-5.3	.0	.0	.6
14	88.70	-3.0	-2.0	281	96	-3.0	-7.0	-4.4	-3.8	.0	.0	.4
15	102.10	-1.3	-1.0	114	48	-1.6	-5.0	-1.5	-1.5	.0	.0	.3
16	116.30	-1.1	-1.0	18	12	-1.6	-5.0	-1.1	-1.0	.0	.0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 300

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.0 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	-1.1	-1.4	135	132	-1.7	-3.4	-79.6	-54.9	1.8	-2.9	2.7
2	.70	-1.9	-1.3	443	407	-2.1	-3.3	-79.5	-54.5	1.7	-2.9	2.5
3	2.90	-2.5	-1.9	695	612	-3.6	-3.1	-78.6	-53.2	1.6	-2.7	2.2
4	6.30	-4.0	-2.7	919	802	-4.4	-3.4	-76.1	-51.3	1.4	-2.5	1.1
5	11.00	-5.7	-3.9	1091	904	-5.2	-4.4	-72.1	-48.6	1.2	-2.1	1.1
6	16.70	-7.7	-5.4	1246	926	-6.2	-5.9	-66.4	-44.7	.9	-1.7	5.5
7	23.10	-10.1	-7.6	1381	917	-7.3	-8.3	-48.6	-39.3	.7	-1.3	1.1
8	30.20	-10.1	-7.6	1368	786	-7.4	-8.3	-48.6	-39.3	.4	-1.1	4.4
9	37.50	-10.1	-7.6	1343	669	-7.5	-8.3	-48.6	-39.3	.2	-1.1	4.4
10	44.80	-9.4	-7.9	1234	566	-7.6	-8.3	-48.6	-39.3	.1	-1.1	5.5
11	51.90	-6.2	-4.5	1031	467	-6.0	-11.1	-19.8	-15.7	.0	-1.2	3.3
12	58.30	-5.0	-1.1	817	245	-6.1	-4.3	-12.8	-11.3	.0	-1.1	1.1
13	64.00	-3.9	-2.2	558	177	-7.0	-1.1	-7.7	-1.1	.0	-1.0	.4
14	68.70	-2.6	-1.0	281	96	-9.3	-1.0	-3.9	-1.0	.0	-1.0	.1
15	72.10	-1.2	-1.0	114	48	-10.2	-1.0	-1.3	-1.0	.0	-1.0	.2
16	74.30	-1.1	-1.0	18	12	-6.9	-1.0	-1.1	-1.0	.0	-1.0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;
WIND DIRECTION 310 CONFIGURATION A

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
REFERENCE PRESSURE 29.0 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
1	0.00	-1.2	-1.1	135	132	-1.1	-1.8	-77.9	-27.1	.9	-3.1	4.3
2	0.70	-1.0	-1.4	443	407	-1.1	-1.9	-77.9	-27.0	.9	-3.0	4.2
3	2.90	-2.6	-1.7	695	612	-1.1	-2.0	-77.9	-26.7	.8	-2.8	4.4
4	6.30	-4.1	-1.2	919	802	-1.1	-1.5	-77.9	-26.0	.6	-2.6	4.4
5	11.00	-5.5	-2.0	1091	904	-1.1	-2.2	-77.9	-24.8	.6	-2.2	4.4
6	16.70	-6.9	-3.0	1246	926	-1.1	-3.3	-66.6	-22.8	.5	-1.8	4.1
7	23.10	-8.9	-4.3	1381	917	-1.1	-4.6	-55.5	-18.7	.3	-1.4	3.8
8	30.20	-9.1	-4.9	1368	761	-1.1	-6.5	-44.4	-15.5	.2	-1.0	3.5
9	37.50	-9.7	-4.4	1343	699	-1.1	-7.7	-33.3	-10.5	.1	-0.7	3.2
10	44.80	-9.1	-3.4	1234	563	-1.1	-9.4	-22.2	-6.0	.0	-0.4	2.9
11	51.90	-6.1	-2.4	1031	407	-1.1	-11.5	-11.1	-2.6	.0	-0.3	2.6
12	58.30	-6.1	-1.5	817	245	-1.1	-14.4	-6.6	-1.1	.0	-0.1	2.3
13	64.00	-5.5	-1.1	558	177	-1.1	-17.7	-3.3	-0.6	.0	-0.1	2.0
14	68.70	-4.4	-1.0	281	96	-1.1	-20.0	-1.1	-0.1	.0	-0.0	1.7
15	72.10	-1.4	-1.0	114	46	-1.1	-20.0	-0.5	-0.1	.0	-0.0	1.5
16	74.30	-1.1	-1.0	18	12	-1.1	-20.0	-0.1	-0.0	.0	-0.0	1.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)

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	-1.1	-1.1	135	132	-1.7	-1.0	-137.8	-23.1	.8	.6	.9
2	2.90	-1.3	-1.4	443	407	-1.0	-1.0	-137.7	-23.3	.7	.5	.9
3	6.30	-1.7	-1.7	695	612	-1.1	-1.1	-136.4	-22.5	.6	.4	.9
4	11.00	-1.9	-1.6	919	802	-1.3	-1.3	-129.4	-20.8	.5	.4	.9
5	16.70	-2.3	-2.3	1091	904	-1.7	-1.7	-125.2	-20.0	.4	.4	.9
6	23.10	-3.2	-3.2	1246	926	-2.5	-2.5	-117.0	-19.2	.4	.4	.9
7	30.20	-4.0	-4.0	1381	917	-3.5	-3.5	-106.6	-18.6	.4	.4	.9
8	37.50	-4.0	-4.0	1368	761	-5.2	-5.2	-92.2	-18.7	.4	.4	.9
9	44.80	-3.2	-3.2	1343	699	-7.7	-7.7	-78.8	-19.7	.4	.4	.9
10	51.90	-2.0	-2.0	1234	562	-9.9	-9.9	-61.9	-20.0	.4	.4	.9
11	58.30	-1.5	-1.5	1031	407	-14.9	-14.9	-46.0	-20.5	.4	.4	.9
12	64.00	-1.1	-1.1	817	245	-23.3	-23.3	-36.0	-20.6	.4	.4	.9
13	68.70	-1.1	-1.1	558	177	-39.9	-39.9	-28.5	-21.1	.4	.4	.9
14	72.10	-1.0	-1.0	281	96	-72.2	-72.2	-17.7	-21.0	.4	.4	.9
15	74.30	-1.0	-1.0	114	48	-124.8	-124.8	-11.1	-21.0	.4	.4	.9
16		-1.0	-1.0	18	12	-111.2	-111.2	-2.2	-21.0	.4	.4	.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 330

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A
REFERENCE PRESSURE 29.0 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	-1.1	-1.1	135	132	-1.0	-.4	-71.1	-20.0	.7	-3.0	4.3
2	2.70	-1.8	-2.2	443	407	-1.8	-.4	-70.9	-19.9	.7	-2.9	4.4
3	6.30	-1.9	-2.5	695	612	-2.7	-.4	-70.1	-19.8	.6	-2.8	4.4
4	10.00	-2.9	-3.5	919	802	-3.2	-.6	-68.2	-19.5	.6	-2.8	4.4
5	13.70	-3.9	-4.5	1091	904	-3.6	-1.1	-65.3	-19.1	.5	-2.7	4.4
6	17.40	-5.2	-5.9	1246	926	-4.1	-2.1	-61.4	-18.1	.4	-2.6	4.4
7	21.10	-6.9	-7.3	1381	917	-5.0	-3.4	-56.2	-16.1	.3	-2.5	4.4
8	24.80	-7.3	-7.3	1368	761	-5.3	-5.5	-49.4	-13.0	.2	-2.4	4.4
9	28.50	-8.4	-8.8	1343	699	-5.7	-5.5	-42.1	-11.1	.1	-2.3	4.4
10	32.20	-8.4	-9.9	1234	562	-6.8	-5.5	-35.7	-9.0	.0	-2.2	4.4
11	35.90	-6.2	-7.7	1031	467	-8.1	-4.1	-29.3	-7.1	.0	-2.1	4.4
12	39.60	-6.9	-4.4	817	245	-8.5	-1.6	-23.0	-5.1	.0	-2.0	4.4
13	43.30	-6.4	-1.1	558	177	-11.6	-.4	-18.1	-3.1	.0	-1.9	4.4
14	47.00	-4.0	-.0	281	96	-14.1	-.0	-15.7	-1.1	.0	-1.8	4.4
15	50.70	-1.6	-.0	114	48	-13.7	-.0	-1.7	-.0	.0	-1.7	4.4
16	54.40	-1.1	-.0	18	12	-7.5	-.0	-.1	-.0	.0	-1.6	4.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 340

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.0 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	-1.1	.0	135	132	-1.7	.2	-88.7	1.2	-0.0	-3.7	2.7
2	2.70	-1.8	.1	443	407	-1.9	.3	-88.6	1.2	-0.0	-3.6	2.6
3	5.40	-2.3	.2	695	612	-3.3	.4	-87.7	1.0	-0.0	-3.4	2.4
4	8.10	-3.8	.4	919	802	-4.1	.4	-85.4	.8	-0.0	-3.2	2.0
5	10.80	-5.1	.4	1091	904	-4.6	.4	-81.6	.4	-0.0	-2.8	1.7
6	13.50	-6.4	.3	1246	926	-5.1	.3	-76.6	.0	-0.0	-2.3	1.5
7	16.20	-8.3	.0	1381	917	-6.0	.0	-70.2	.0	-0.0	-1.8	1.1
8	18.90	-9.0	.4	1368	761	-6.6	.5	-61.9	.2	-0.0	-1.4	2.1
9	21.60	-11.1	.1	1343	699	-8.3	.2	-52.9	.1	-0.0	-1.0	2.9
10	24.30	-10.9	.1	1234	562	-8.8	.1	-41.8	.3	-0.0	-.6	3.2
11	27.00	-7.5	.2	1031	407	-7.3	.4	-30.9	.2	-0.0	-.3	3.1
12	29.70	-8.6	.1	817	245	-10.5	.2	-23.4	.1	-0.0	-.2	2.5
13	32.40	-8.2	.0	558	177	-14.7	.1	-14.8	.0	-0.0	-.1	1.9
14	35.10	-4.7	.0	281	96	-16.7	.0	-6.5	.0	-0.0	.0	1.2
15	37.80	-1.7	.0	114	48	-15.0	.0	-1.8	.0	-0.0	.0	.6
16	40.50	-1.1	.0	18	12	-6.8	.0	-.1	.0	-0.0	.0	.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 350

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
CONFIGURATION A REFERENCE PRESSURE 29.0 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	-.1	135	132	-1.5	-.5	-58.8	10.0	-.4	-2.4	1.9
2	7.70	-.1	-.1	443	407	-2.0	-.4	-58.6	10.1	-.4	-2.4	1.9
3	2.90	-.1	-.1	695	612	-2.6	-.1	-57.7	10.2	-.4	-2.2	1.9
4	6.30	-.1	-.1	919	802	-3.0	-.2	-55.9	10.3	-.4	-2.1	1.9
5	11.00	-.4	-.5	1091	904	-3.5	-.6	-53.1	10.1	-.4	-1.8	1.9
6	16.70	-.5	-.5	1246	926	-3.5	1.0	-49.5	9.6	-.2	-1.5	1.9
7	23.10	-.5	1.2	1381	917	-4.3	1.4	-45.1	8.7	-.2	-1.2	1.9
8	30.20	-.6	1.5	1368	761	-4.3	1.9	-39.6	7.5	-.1	-.9	1.9
9	37.50	-.6	2.0	1343	699	-4.3	2.9	-34.3	6.0	-.1	-.6	1.9
10	44.80	-.5	2.0	1334	562	-4.3	3.7	-27.9	4.0	-.0	-.4	1.9
11	51.90	-.5	1.5	1031	407	-4.3	3.7	-21.0	2.0	-.0	-.2	1.9
12	58.30	-.6	.4	817	245	-4.3	1.6	-15.4	.5	-.0	-.1	1.9
13	64.00	-.5	.1	558	177	-4.3	.4	-9.4	.1	-.0	-.0	1.9
14	68.70	-.2	-.0	281	96	-1.0	-.0	-4.0	-.0	-.0	-.0	1.9
15	72.10	-.1	-.0	114	48	-.9	-.0	-1.1	-.0	-.0	-.0	1.9
16	74.30	-.1	-.0	18	12	-4.1	-.0	-.1	-.0	-.0	-.0	1.9

STATE OF ILLINOIS CENTER, CHICAGO (MINUS SKYLIGHT)
 PROJECT 7170 CONFIGURATION A
 SCALE = 400 REF. PRESSURE = 29.0
 GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 12.50
 NUMBER OF SIDES = 17 NO OF FLOORS = 18

SIDE	ANGLE	Z-AXIS
1	55.0	4.910
2	325.0	5.060
3	235.0	1.090
4	145.0	3.020
5	170.0	3.020
6	191.0	.420
7	209.0	-1.550
8	145.0	3.950
9	170.0	3.140
10	191.0	.520
11	200.0	-1.870
12	145.0	4.060
13	170.0	3.310
14	191.0	.640
15	145.0	3.820
16	176.0	2.640
17	195.0	-1.330

FLOOR #	LABEL	HEIGHT-FT
1	1	18.80
2	2	18.70
3	3	12.50
4	4	12.50
5	5	12.50
6	6	12.50
7	7	12.50
8	8	12.50
9	9	12.50
10	10	12.50
11	11	12.50
12	12	12.50
13	13	12.50
14	14	12.50
15	15	12.50
16	16	12.50
17	17	12.50
18	18	12.50

STATE OF ILLINOIS CENTER, CHICAGO (SKYLIGHT)
 PROJECT 2002 CONFIGURATION A
 SCALE = 400 REF. PRESSURE = 29.0
 GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 0.00
 NUMBER OF SIDES = 9 NO. OF FLOORS = 16

SIDE	ANGLE	Z-AXIS
1	262.5	.966
2	247.5	.966
3	232.5	.966
4	337.5	.966
5	222.5	.966
6	67.5	.966
7	112.5	.966
8	157.5	.966
9	180.0	2.525

FLOOR #	LABEL	HEIGHT-FT
1	1	.70
2	2	2.20
3	3	3.40
4	4	4.70
5	5	5.70
6	6	6.40
7	7	7.10
8	8	7.30
9	9	7.30
10	10	7.10
11	11	6.40
12	12	5.70
13	13	4.70
14	14	3.40
15	15	2.20
16	16	.70

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:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
00	101	019	143	545	555	00	152	061	101	289	470	00	209	099	116	313	803
00	102	100	171	775	555	00	153	019	098	338	428	00	210	292	142	066	952
00	103	054	172	657	448	00	154	103	105	330	510	00	211	162	162	244	357
00	104	078	154	707	448	00	155	020	103	349	407	00	212	096	098	193	487
00	105	122	140	732	655	00	156	058	116	330	512	00	213	091	106	207	583
00	106	010	118	523	448	00	157	020	120	532	470	00	214	268	120	081	994
00	107	046	127	452	448	00	158	152	133	455	795	00	215	169	148	204	859
00	108	004	136	636	448	00	159	020	125	504	772	00	216	079	093	221	432
00	109	175	149	464	655	00	160	066	115	510	539	00	217	071	097	223	376
00	110	036	149	633	555	00	161	033	113	433	431	00	218	252	126	121	107
00	111	088	177	903	448	00	162	114	127	393	431	00	219	142	132	175	261
00	112	145	183	900	555	00	163	047	124	549	446	00	220	071	093	262	411
00	113	132	182	853	555	00	164	022	129	429	633	00	221	058	096	266	371
00	114	083	161	868	655	00	165	071	116	642	518	00	222	222	123	134	811
00	115	025	116	636	448	00	166	060	126	598	518	00	223	145	145	225	353
00	116	039	137	542	448	00	167	116	117	456	555	00	224	044	095	249	385
00	117	022	156	658	448	00	168	046	120	631	411	00	225	082	105	213	421
00	118	058	167	838	448	00	169	042	103	398	777	00	226	080	105	250	024
00	119	008	141	560	448	00	170	015	114	413	351	00	227	220	129	114	916
00	120	084	159	602	555	00	171	066	122	333	487	00	228	135	129	237	747
00	121	058	164	665	448	00	172	033	098	462	666	00	229	035	089	269	332
00	122	051	159	699	448	00	173	033	104	668	727	00	230	078	094	257	444
00	123	029	141	588	555	00	174	016	097	333	448	00	231	113	117	233	669
00	124	064	161	814	448	00	175	109	108	329	444	00	232	222	132	226	868
00	125	011	138	685	555	00	176	017	102	544	388	00	233	097	098	290	397
00	126	060	174	636	555	00	177	122	111	435	652	00	234	043	079	234	329
00	127	085	130	578	555	00	178	066	102	418	222	00	235	087	096	239	443
00	128	019	175	732	655	00	179	102	106	280	458	00	236	093	099	231	490
00	129	010	124	524	655	00	180	022	106	226	333	00	237	190	134	195	145
00	130	009	146	729	448	00	181	107	106	301	444	00	238	033	095	345	308
00	131	071	157	806	448	00	182	066	105	716	333	00	239	059	098	314	385
00	132	128	152	676	448	00	183	132	112	289	444	00	240	059	102	306	541
00	133	048	133	696	448	00	184	001	103	355	336	00	241	178	116	223	550
00	134	013	123	581	555	00	185	019	113	422	333	00	242	012	093	296	404
00	135	095	133	736	555	00	186	022	108	449	395	00	243	031	089	249	375
00	136	078	154	555	655	00	187	066	115	375	555	00	244	099	094	219	444
00	137	099	162	849	333	00	188	036	108	413	444	00	245	087	122	329	613
00	138	063	131	529	555	00	189	024	110	362	344	00	301	033	118	384	498
00	140	027	171	729	448	00	190	007	097	298	316	00	302	064	096	309	318
00	141	088	150	807	448	00	191	086	112	268	496	00	303	072	108	284	601
00	142	063	156	775	448	00	192	000	097	353	555	00	304	009	101	327	413
00	143	075	130	798	555	00	193	076	101	310	450	00	305	006	099	340	410
00	144	044	148	731	555	00	201	127	144	295	444	00	306	021	101	361	436
00	145	122	139	676	555	00	202	169	146	325	787	00	307	091	110	376	624
00	146	026	137	576	333	00	203	333	147	172	555	00	308	033	117	361	532
00	147	013	139	787	448	00	204	117	112	241	399	00	309	019	112	373	456
00	148	047	161	814	448	00	205	109	122	247	897	00	310	053	097	277	480
00	149	043	120	464	555	00	206	306	144	111	999	00	311	088	122	243	786
00	150	117	128	533	555	00	207	161	146	314	388	00	312	105	139	347	810
00	151	006	112	497	555	00	208	099	103	194	388	00	313	141	142	329	856

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
000	314	.206	.161	.243	-.1	000	333	.059	.098	.320	.333	000	416	.182	.114	.256	-.584
000	315	.014	.105	.289	-.1	000	336	.020	.096	.342	.333	000	417	.003	.089	.342	-.323
000	316	.009	.094	.318	-.1	000	336	.200	.108	.418	.333	000	418	.008	.089	.332	-.332
000	317	.072	.109	.264	-.1	000	336	.024	.103	.419	.333	000	419	.003	.089	.339	-.333
000	318	.006	.099	.307	-.1	000	336	.077	.107	.420	.333	000	420	.054	.088	.339	-.333
000	319	.005	.098	.214	-.1	000	337	.041	.103	.421	.333	000	421	.025	.088	.259	-.3350
000	320	.020	.100	.290	-.1	000	337	.003	.091	.501	.333	000	501	.141	.148	.465	-.768
000	321	.092	.108	.229	-.1	000	337	.007	.100	.502	.333	000	502	.081	.124	.351	-.692
000	322	.027	.105	.318	-.1	000	337	.054	.102	.503	.333	000	503	.060	.104	.293	-.471
000	323	.019	.103	.332	-.1	000	337	.014	.100	.504	.333	000	504	.154	.108	.222	-.582
000	324	.048	.106	.331	-.1	000	337	.199	.114	.505	.333	000	505	.043	.102	.255	-.456
000	325	.133	.117	.225	-.1	000	337	.017	.094	.505	.333	000	505	.151	.109	.158	-.620
000	326	.095	.130	.390	-.1	000	337	.067	.097	.506	.333	000	506	.086	.102	.254	-.540
000	327	.106	.124	.336	-.1	000	337	.033	.094	.507	.333	000	507	.066	.102	.254	-.540
000	328	.136	.118	.228	-.1	000	337	.014	.089	.508	.333	000	508	.088	.102	.244	-.588
000	329	.106	.107	.399	-.1	000	338	.039	.108	.510	.333	000	510	.049	.099	.273	-.477
000	330	.106	.097	.388	-.1	000	338	.006	.108	.511	.333	000	511	.106	.099	.247	-.576
000	331	.156	.112	.283	-.1	000	338	.062	.107	.512	.333	000	512	.053	.099	.282	-.518
000	332	.009	.090	.330	-.1	000	338	.205	.093	.513	.333	000	513	.169	.099	.160	-.653
000	333	.052	.093	.304	-.1	000	338	.053	.097	.514	.333	000	514	.048	.104	.272	-.423
000	334	.020	.090	.330	-.1	000	338	.016	.093	.515	.333	000	515	.233	.179	.359	-.294
000	335	.180	.104	.209	-.1	000	338	.213	.105	.516	.333	000	516	.069	.141	.405	-.779
000	336	.033	.099	.369	-.1	000	338	.023	.092	.517	.333	000	517	.140	.111	.396	-.441
000	337	.059	.105	.242	-.1	000	338	.071	.097	.518	.333	000	518	.026	.111	.237	-.582
000	338	.246	.125	.331	-.1	000	339	.094	.117	.519	.333	000	519	.113	.099	.243	-.389
000	339	.013	.096	.318	-.1	000	339	.013	.091	.520	.333	000	520	.113	.099	.191	-.476
000	340	.017	.095	.308	-.1	000	339	.009	.099	.521	.333	000	521	.190	.113	.357	-.984
000	341	.176	.090	.395	-.1	000	339	.051	.097	.522	.333	000	522	.042	.133	.407	-.833
000	342	.056	.099	.308	-.1	000	339	.227	.109	.523	.333	000	523	.148	.104	.180	-.584
000	343	.011	.090	.304	-.1	000	339	.014	.097	.524	.333	000	524	.024	.099	.344	-.379
000	344	.176	.093	.390	-.1	000	339	.026	.095	.525	.333	000	525	.092	.099	.268	-.452
000	345	.057	.091	.317	-.1	000	339	.022	.095	.526	.333	000	526	.065	.099	.284	-.405
000	346	.189	.104	.265	-.1	000	339	.062	.102	.527	.333	000	527	.171	.100	.211	-.540
000	347	.024	.098	.333	-.1	000	339	.023	.099	.528	.333	000	528	.151	.155	.348	-.117
000	348	.079	.103	.222	-.1	000	339	.004	.111	.529	.333	000	529	.067	.111	.313	-.693
000	349	.053	.102	.333	-.1	000	340	.216	.112	.530	.333	000	530	.083	.111	.322	-.587
000	350	.017	.089	.288	-.1	000	340	.045	.093	.531	.333	000	531	.003	.103	.419	-.353
000	351	.045	.099	.356	-.1	000	340	.002	.088	.532	.333	000	532	.033	.103	.367	-.405
000	352	.182	.110	.288	-.1	000	340	.045	.093	.533	.333	000	533	.007	.091	.329	-.294
000	353	.011	.095	.314	-.1	000	340	.206	.107	.534	.333	000	534	.014	.090	.352	-.268
000	354	.057	.099	.333	-.1	000	340	.014	.098	.535	.333	000	535	.085	.141	.326	-.898
000	355	.020	.096	.315	-.1	000	340	.002	.099	.536	.333	000	536	.051	.125	.341	-.871
000	356	.190	.109	.205	-.1	000	340	.062	.101	.537	.333	000	537	.044	.106	.321	-.339
000	357	.027	.092	.333	-.1	000	340	.012	.114	.538	.333	000	538	.033	.099	.327	-.343
000	358	.044	.093	.333	-.1	000	340	.026	.094	.539	.333	000	539	.027	.099	.343	-.328
000	359	.185	.113	.166	-.1	000	340	.012	.096	.540	.333	000	540	.008	.094	.324	-.328
000	360	.108	.108	.242	-.1	000	340	.245	.104	.541	.333	000	541	.071	.119	.398	-.919
000	361	.094	.094	.333	-.1	000	340	.068	.098	.542	.333	000	542	.095	.109	.267	-.721
000	362	.057	.099	.333	-.1	000	340	.022	.101	.543	.333	000	543	.012	.107	.325	-.366
000	363	.020	.096	.315	-.1	000	340	.012	.101	.544	.333	000	544	.030	.100	.350	-.326
000	364	.014	.094	.342	-.1	000	340	.068	.098								

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	545	.036	.099	.313	.340	0	812	.113	.135	.265	.740	10	109	.371	.155	.186	1.030
0	546	.036	.100	.332	.389	0	813	.110	.133	.260	.688	10	110	.015	.153	.537	.548
0	547	.012	.090	.260	.368	0	814	.148	.129	.232	.656	10	111	.032	.177	.809	.518
0	548	.018	.111	.416	.534	0	815	.051	.116	.408	.550	10	112	.124	.177	.901	.413
0	549	.059	.108	.294	.541	0	816	.031	.113	.420	.460	10	113	.187	.197	.026	.438
0	550	.013	.093	.307	.446	0	817	.084	.121	.507	.578	10	114	.061	.237	.912	.737
0	551	.038	.092	.316	.412	0	818	.125	.133	.335	.637	10	115	.057	.148	.769	.420
0	552	.004	.097	.376	.385	0	819	.057	.133	.432	.347	10	116	.089	.139	.407	.537
0	553	.031	.095	.375	.377	0	820	.140	.195	.915	.366	10	117	.087	.134	.462	.563
0	554	.000	.096	.342	.377	0	821	.023	.142	.943	.595	10	118	.046	.134	.490	.623
0	555	.040	.112	.409	.403	0	822	.145	.130	.247	.791	10	119	.045	.151	.525	.632
0	556	.073	.111	.378	.667	0	823	.048	.107	.326	.520	10	120	.197	.204	.710	.966
0	557	.017	.098	.308	.559	0	824	.001	.099	.364	.346	10	121	.026	.135	.564	.623
0	558	.037	.095	.345	.273	0	825	.108	.199	.973	.468	10	122	.055	.142	.578	.534
0	559	.007	.093	.307	.996	0	826	.058	.162	.687	.558	10	123	.091	.157	.599	.803
0	560	.049	.096	.313	.399	0	827	.068	.114	.385	.690	10	124	.187	.162	.627	.782
0	561	.032	.109	.339	.428	0	828	.022	.115	.488	.395	10	125	.008	.148	.593	.592
0	562	.124	.116	.363	.548	0	829	.070	.164	.894	.439	10	126	.040	.219	.058	.710
0	563	.026	.099	.318	.344	0	830	.075	.134	.565	.564	10	127	.041	.124	.455	.395
0	564	.018	.093	.331	.344	0	831	.065	.108	.366	.625	10	128	.135	.163	.533	.724
0	565	.029	.093	.291	.364	0	832	.015	.106	.342	.301	10	129	.003	.135	.576	.446
0	566	.015	.095	.335	.362	0	901	.125	.159	.404	2.003	10	130	.031	.160	.695	.424
0	567	.045	.094	.362	.318	0	902	.074	.140	.587	.910	10	131	.147	.167	.849	.306
0	568	.030	.107	.428	.407	0	903	.134	.172	.396	1.137	10	132	.062	.214	.844	.718
0	569	.005	.099	.356	.391	0	904	.281	.194	.199	.062	10	133	.128	.172	.937	.330
0	570	.040	.097	.314	.420	0	905	.060	.123	.323	.522	10	134	.001	.140	.614	.441
0	571	.007	.091	.347	.200	0	907	.025	.120	.392	.477	10	135	.043	.131	.519	.422
0	572	.031	.089	.372	.296	0	908	.116	.144	.412	.814	10	136	.232	.180	.546	.881
0	573	.016	.089	.355	.320	0	909	.090	.136	.350	.610	10	137	.003	.143	.626	.537
0	574	.039	.092	.312	.381	0	910	.011	.104	.364	.509	10	138	.111	.139	.414	.703
0	575	.101	.104	.342	.457	0	911	.001	.125	.641	.452	10	140	.021	.176	.833	.496
0	576	.011	.095	.292	.336	0	912	.072	.191	.122	.448	10	141	.018	.137	.598	.485
0	577	.040	.090	.351	.287	0	913	.001	.132	.620	.552	10	142	.046	.158	.665	.594
0	578	.015	.089	.308	.312	0	914	.047	.111	.323	.531	10	143	.100	.139	.522	.617
0	579	.034	.093	.276	.352	0	915	.064	.108	.333	.326	10	144	.032	.137	.718	.516
0	580	.006	.088	.295	.264	0	916	.120	.120	.294	.546	10	145	.131	.148	.444	.633
0	581	.050	.090	.346	.237	0	917	.031	.104	.323	.407	10	146	.108	.166	.943	.333
0	582	.001	.091	.304	.280	0	918	.018	.103	.330	.369	10	147	.060	.121	.440	.534
0	583	.029	.093	.283	.222	0	919	.013	.103	.345	.361	10	148	.037	.141	.590	.616
0	801	.031	.106	.331	.384	0	920	.070	.108	.278	.422	10	149	.025	.137	.642	.580
0	802	.163	.145	.277	.000	0	921	.002	.101	.354	.559	10	150	.084	.161	.581	.607
0	803	.177	.170	.218	.196	0	922	.009	.100	.336	.425	10	151	.037	.132	.550	.384
0	804	.170	.156	.282	.015	10	101	.082	.158	.659	.697	10	152	.064	.125	.458	.507
0	805	.167	.164	.277	.088	10	102	.024	.157	.734	.539	10	153	.023	.112	.434	.427
0	806	.176	.140	.334	.171	10	103	.068	.182	.866	.640	10	154	.140	.115	.276	.545
0	807	.054	.119	.270	.801	10	104	.126	.180	.786	.469	10	155	.033	.106	.389	.529
0	808	.020	.100	.423	.452	10	105	.132	.211	.672	.852	10	156	.123	.117	.391	.524
0	809	.058	.106	.276	.441	10	106	.027	.153	.632	.476	10	157	.069	.117	.435	.450
0	810	.163	.127	.234	.026	10	107	.109	.131	.417	.603	10	158	.187	.144	.299	.708
0	811	.114	.136	.264	.714	10	108	.063	.122	.411	.499	10	159	.002	.128	.560	.524

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	160	.131	.110	.253	-.589	10	217	.116	.118	.277	-	10	322	.053	.110	.265	-.482
10	161	.215	.121	.260	-.654	10	218	.532	.184	.098	-1.615	10	323	.047	.109	.334	-.467
10	162	.186	.117	.308	-.675	10	219	.243	.159	.196	-1.072	10	324	.071	.112	.303	-.496
10	163	.044	.139	.305	-.508	10	220	.115	.101	.219	-1.477	10	325	.146	.125	.248	-.681
10	164	.023	.119	.378	-.999	10	221	.093	.114	.319	-.507	10	326	.118	.123	.383	-.593
10	165	.133	.112	.591	-.566	10	222	.522	.196	.058	-2.046	10	327	.158	.136	.225	-.698
10	166	.064	.140	.567	-.533	10	223	.233	.170	.446	-1.548	10	328	.136	.124	.230	-.680
10	167	.112	.133	.517	-.531	10	224	.051	.097	.244	-.438	10	329	.130	.116	.328	-.492
10	168	.087	.115	.457	-.502	10	225	.116	.103	.199	-.574	10	330	.028	.089	.309	-.330
10	169	.066	.105	.408	-.434	10	226	.101	.120	.247	-.796	10	331	.043	.093	.311	-.390
10	170	.033	.102	.395	-.388	10	227	.473	.195	.003	-1.528	10	332	.036	.098	.308	-.337
10	171	.073	.109	.475	-.333	10	228	.282	.172	.289	-1.309	10	333	.047	.099	.280	-.374
10	172	.046	.101	.434	-.299	10	229	.044	.094	.455	-.363	10	334	.039	.096	.284	-.335
10	173	.044	.105	.346	-.431	10	230	.114	.102	.355	-.432	10	335	.066	.096	.272	-.356
10	174	.109	.094	.311	-.330	10	231	.169	.142	.195	-1.019	10	336	.060	.097	.276	-.377
10	175	.023	.103	.231	-.591	10	232	.532	.205	.002	-1.816	10	337	.076	.100	.255	-.499
10	176	.022	.093	.351	-.345	10	233	.316	.113	.083	-.661	10	338	.084	.105	.313	-.497
10	177	.099	.127	.498	-.400	10	234	.056	.087	.276	-.374	10	339	.138	.117	.301	-.786
10	178	.099	.110	.419	-.333	10	235	.125	.105	.286	-.485	10	340	.033	.095	.309	-.384
10	179	.044	.104	.317	-.509	10	236	.121	.110	.291	-.580	10	341	.041	.096	.278	-.391
10	180	.133	.100	.325	-.401	10	237	.470	.208	.243	-1.606	10	342	.028	.093	.284	-.359
10	181	.153	.107	.243	-.384	10	238	.044	.091	.279	-.319	10	343	.060	.094	.338	-.417
10	182	.033	.105	.320	-.518	10	239	.099	.097	.228	-.400	10	344	.035	.087	.289	-.341
10	183	.133	.110	.483	-.499	10	240	.076	.096	.259	-.403	10	345	.046	.088	.259	-.372
10	184	.023	.112	.391	-.483	10	241	.224	.123	.107	-.727	10	346	.036	.088	.267	-.371
10	185	.005	.130	.424	-.477	10	242	.022	.094	.305	-.333	10	347	.072	.089	.246	-.417
10	186	.066	.123	.579	-.363	10	243	.040	.095	.408	-.374	10	348	.051	.102	.230	-.448
10	187	.037	.133	.504	-.300	10	244	.332	.121	.016	-.765	10	349	.067	.103	.262	-.388
10	188	.067	.110	.508	-.301	10	245	.131	.131	.260	-.588	10	350	.079	.109	.222	-.479
10	189	.013	.115	.452	-.403	10	246	.185	.125	.211	-.623	10	351	.030	.098	.348	-.314
10	190	.023	.104	.470	-.323	10	247	.023	.092	.304	-.353	10	352	.179	.124	.326	-.581
10	191	.005	.119	.453	-.403	10	248	.088	.106	.262	-.406	10	353	.038	.102	.310	-.347
10	192	.066	.095	.304	-.488	10	249	.033	.094	.297	-.375	10	354	.066	.098	.206	-.386
10	193	.149	.100	.224	-.433	10	250	.027	.097	.282	-.456	10	355	.039	.091	.292	-.361
10	201	.109	.151	.224	-.260	10	251	.045	.098	.202	-.438	10	356	.048	.090	.312	-.387
10	202	.221	.162	.224	-.999	10	252	.103	.106	.291	-.557	10	357	.039	.090	.313	-.390
10	203	.151	.192	.105	-.447	10	253	.063	.111	.292	-.595	10	358	.074	.091	.267	-.409
10	204	.153	.128	.321	-.645	10	254	.052	.107	.257	-.574	10	359	.046	.096	.262	-.374
10	205	.163	.141	.300	-.645	10	255	.080	.095	.196	-.466	10	360	.060	.099	.263	-.371
10	206	.146	.185	.336	-.312	10	256	.148	.123	.282	-.749	10	361	.060	.099	.312	-.356
10	207	.144	.144	.240	-.669	10	257	.148	.141	.257	-.941	10	362	.037	.102	.312	-.356
10	208	.146	.119	.289	-.879	10	258	.211	.150	.228	-.680	10	363	.070	.097	.290	-.369
10	209	.140	.133	.299	-.715	10	259	.249	.165	.411	-.191	10	364	.039	.094	.267	-.361
10	210	.102	.179	.102	-.269	10	260	.036	.113	.258	-.416	10	365	.045	.094	.270	-.381
10	211	.196	.143	.196	-.955	10	261	.066	.090	.313	-.313	10	366	.035	.094	.270	-.369
10	212	.118	.118	.219	-.693	10	262	.099	.102	.251	-.475	10	367	.083	.094	.227	-.413
10	213	.138	.138	.217	-.227	10	263	.036	.101	.284	-.485	10	368	.043	.087	.257	-.423
10	214	.181	.181	.008	-.414	10	264	.025	.100	.300	-.427	10	369	.060	.089	.243	-.434
10	215	.154	.154	.885	-.885	10	265	.042	.100	.303	-.443	10	370	.060	.091	.289	-.468
10	216	.104	.104	.251	-.504	10	266	.101	.106	.352	-.672	10	371	.018	.089	.291	-.391
10						10	267	.106	.106	.352	-.672	10	372	.030	.097	.291	-.391
10						10	268					10	373			.392	-.355

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	374	.037	.097	.387	.374	10	503	.096	.109	.237	.663	10	553	.016	.087	.282	.276
10	375	.029	.096	.407	.375	10	504	.177	.109	.155	.561	10	554	.016	.089	.259	.326
10	376	.084	.096	.363	.417	10	505	.056	.104	.299	.718	10	555	.067	.107	.262	.407
10	377	.037	.096	.259	.417	10	506	.165	.106	.193	.813	10	556	.111	.101	.244	.638
10	378	.046	.096	.253	.417	10	507	.069	.098	.253	.599	10	557	.063	.096	.245	.389
10	379	.042	.096	.287	.417	10	508	.288	.145	.144	.130	10	558	.010	.090	.317	.338
10	380	.031	.091	.292	.417	10	509	.227	.148	.233	.920	10	559	.017	.091	.299	.351
10	381	.178	.113	.203	.417	10	510	.082	.102	.253	.889	10	560	.073	.097	.226	.384
10	382	.029	.091	.313	.417	10	511	.153	.104	.165	.506	10	561	.066	.105	.260	.633
10	383	.014	.094	.246	.417	10	512	.065	.097	.297	.401	10	562	.161	.114	.240	.517
10	384	.078	.096	.219	.417	10	513	.170	.106	.218	.595	10	563	.006	.094	.284	.366
10	385	.034	.094	.272	.417	10	514	.051	.088	.239	.359	10	564	.013	.095	.289	.343
10	386	.039	.097	.272	.417	10	515	.266	.157	.350	.1	10	565	.068	.099	.281	.421
10	387	.031	.095	.267	.417	10	516	.101	.131	.249	.153	10	566	.022	.090	.281	.307
10	388	.088	.095	.216	.417	10	517	.068	.098	.197	.457	10	567	.019	.086	.319	.259
10	389	.043	.096	.293	.417	10	518	.166	.100	.147	.528	10	568	.054	.107	.364	.440
10	390	.056	.096	.264	.417	10	519	.041	.090	.271	.413	10	569	.041	.093	.252	.481
10	391	.123	.121	.250	.417	10	520	.135	.097	.157	.528	10	570	.094	.094	.227	.436
10	392	.019	.096	.311	.417	10	521	.177	.129	.256	.940	10	571	.032	.093	.319	.301
10	393	.078	.096	.241	.417	10	522	.071	.113	.296	.600	10	572	.012	.088	.329	.260
10	394	.027	.096	.289	.417	10	523	.184	.113	.264	.994	10	573	.011	.091	.225	.299
10	395	.032	.095	.267	.417	10	524	.051	.096	.255	.354	10	574	.072	.096	.297	.333
10	396	.027	.095	.275	.417	10	525	.131	.100	.194	.467	10	575	.229	.119	.235	.597
10	397	.021	.093	.243	.417	10	526	.058	.094	.222	.675	10	576	.056	.097	.275	.469
10	398	.047	.104	.344	.417	10	527	.159	.104	.162	.497	10	577	.002	.090	.306	.337
10	399	.032	.102	.346	.417	10	528	.157	.144	.245	.911	10	578	.024	.089	.272	.354
10	400	.022	.102	.367	.417	10	529	.099	.132	.310	.326	10	579	.081	.095	.241	.454
10	401	.025	.111	.320	.417	10	530	.160	.113	.197	.627	10	580	.025	.092	.299	.335
10	402	.086	.102	.285	.417	10	531	.030	.090	.365	.358	10	581	.021	.091	.341	.270
10	403	.019	.096	.340	.417	10	532	.080	.093	.336	.458	10	582	.017	.092	.306	.300
10	404	.026	.096	.302	.417	10	533	.035	.099	.287	.340	10	583	.065	.097	.277	.370
10	405	.023	.094	.301	.417	10	534	.009	.094	.319	.290	10	801	.055	.104	.299	.488
10	406	.025	.095	.225	.417	10	535	.088	.131	.314	.776	10	802	.201	.160	.265	.798
10	407	.038	.098	.347	.417	10	536	.093	.137	.327	.916	10	803	.307	.209	.298	.350
10	408	.005	.087	.384	.417	10	537	.109	.111	.252	.456	10	804	.273	.169	.213	.295
10	409	.014	.097	.334	.417	10	538	.040	.089	.329	.361	10	805	.272	.198	.211	.576
10	410	.076	.097	.292	.417	10	539	.017	.082	.384	.258	10	806	.218	.162	.190	.719
10	411	.005	.094	.321	.417	10	540	.021	.085	.368	.303	10	807	.073	.108	.296	.640
10	412	.018	.093	.306	.417	10	541	.146	.126	.271	.879	10	808	.041	.101	.334	.363
10	413	.024	.093	.263	.417	10	542	.242	.140	.185	.963	10	809	.084	.117	.300	.622
10	414	.101	.094	.212	.417	10	543	.066	.102	.275	.399	10	810	.196	.146	.287	.852
10	415	.018	.091	.348	.417	10	544	.010	.091	.359	.311	10	811	.241	.189	.276	.038
10	416	.065	.088	.224	.417	10	545	.014	.090	.310	.354	10	812	.272	.182	.290	.146
10	417	.022	.099	.291	.417	10	546	.074	.094	.250	.441	10	813	.228	.172	.271	.039
10	418	.066	.099	.268	.417	10	547	.033	.094	.301	.380	10	814	.202	.150	.249	.928
10	419	.029	.113	.283	.417	10	548	.043	.110	.358	.600	10	815	.079	.116	.353	.698
10	420	.293	.095	.086	.417	10	549	.043	.116	.271	.644	10	816	.055	.110	.288	.623
10	421	.036	.094	.235	.417	10	550	.050	.099	.315	.689	10	817	.128	.137	.308	.096
10	501	.150	.125	.250	.417	10	551	.084	.101	.260	.513	10	818	.151	.125	.279	.832
10	502	.127	.135	.289	.417	10	552	.033	.092	.241	.349	10	819	.120	.145	.447	.750

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	820	.228	.199	1.145	-.403	20	117	-.056	.129	.513	-.563	20	168	-.089	.100	.242	-.413
10	821	-.094	.141	.454	-.713	20	118	-.069	.120	.436	-.494	20	169	-.062	.108	.749	-.409
10	822	-.239	.154	1.199	-1.221	20	119	-.069	.136	.496	-.600	20	170	-.040	.096	.276	-.368
10	823	-.066	.099	.296	-.434	20	120	-.062	.125	.460	-.447	20	171	-.130	.112	.225	-.489
10	824	-.028	.098	.330	-.400	20	121	-.051	.112	.454	-.445	20	172	-.035	.106	.449	-.275
10	825	-.225	.231	1.263	-.564	20	122	-.085	.118	.350	-.568	20	173	-.052	.112	.346	-.377
10	826	-.174	.157	.552	-.705	20	123	-.083	.123	.506	-.583	20	174	-.002	.100	.369	-.291
10	827	-.195	.165	.337	-.933	20	124	-.302	.141	.323	-.805	20	175	-.166	.109	.241	-.550
10	828	-.073	.139	.414	-.635	20	125	-.045	.118	.424	-.534	20	176	-.040	.094	.226	-.390
10	829	-.177	.215	1.115	-.403	20	126	-.012	.141	.575	-.340	20	177	-.185	.123	.363	-.684
10	830	-.150	.163	.423	-.303	20	127	-.034	.137	.654	-.408	20	178	-.092	.103	.379	-.438
10	831	-.175	.140	.201	-.891	20	128	-.184	.134	.397	-.646	20	179	-.194	.103	.145	-.587
10	832	-.041	.098	.333	-.414	20	129	-.030	.117	.581	-.444	20	180	-.056	.099	.302	-.484
10	901	-.155	.144	.354	-1.106	20	130	-.017	.133	.749	-.387	20	181	-.169	.103	.194	-.516
10	902	-.154	.176	.346	-1.276	20	131	-.088	.143	.829	-.291	20	182	-.044	.102	.306	-.368
10	903	-.208	.187	.333	-1.366	20	132	-.072	.154	.715	-.321	20	183	-.192	.103	.143	-.517
10	904	-.316	.184	.281	-1.347	20	133	-.153	.174	1.031	-.315	20	184	-.010	.103	.390	-.405
10	905	-.124	.140	.297	-.822	20	134	-.074	.145	.656	-.348	20	185	-.028	.121	.460	-.440
10	907	-.107	.133	.345	-1.061	20	135	-.028	.117	.605	-.390	20	186	-.051	.112	.523	-.390
10	908	-.227	.198	.343	-1.389	20	136	-.074	.112	.435	-.511	20	187	-.105	.120	.377	-.529
10	909	-.120	.140	.431	-.778	20	137	-.061	.117	.617	-.511	20	188	-.058	.115	.521	-.316
10	910	-.050	.102	.278	-.473	20	138	-.163	.121	.310	-.614	20	189	-.022	.124	.456	-.456
10	911	-.080	.141	.436	-.687	20	140	-.058	.146	.559	-.443	20	190	-.038	.106	.406	-.332
10	912	-.182	.247	1.378	-.453	20	141	-.036	.116	.522	-.451	20	191	-.109	.121	.295	-.546
10	913	-.022	.138	.655	-.681	20	142	-.101	.135	.473	-.608	20	192	-.001	.095	.435	-.327
10	914	-.070	.112	.259	-.578	20	143	-.142	.126	.391	-.629	20	193	-.120	.102	.354	-.474
10	915	-.146	.127	.267	-.666	20	144	-.074	.116	.374	-.462	20	201	-.138	.142	.313	-.154
10	916	-.151	.126	.271	-.862	20	145	-.154	.132	.344	-.636	20	202	-.167	.152	.276	-1.092
10	917	-.050	.100	.324	-.448	20	146	-.080	.148	1.031	-.362	20	203	-.215	.146	.236	-1.027
10	918	-.042	.099	.312	-.447	20	147	-.081	.129	.489	-.516	20	204	-.106	.115	.305	-.622
10	919	-.027	.100	.367	-.453	20	148	-.078	.123	.484	-.452	20	205	-.110	.127	.362	-.711
10	920	-.090	.102	.284	-.479	20	149	-.039	.116	.433	-.420	20	206	-.172	.133	.359	-.712
10	921	-.026	.094	.323	-.344	20	150	-.091	.143	.472	-.603	20	207	-.173	.131	.293	-.848
10	922	-.036	.094	.340	-.414	20	151	-.040	.130	.664	-.337	20	208	-.096	.106	.218	-.685
20	101	-.101	.136	.524	-.810	20	152	-.058	.134	.463	-.474	20	209	-.104	.114	.246	-.821
20	102	-.031	.131	.520	-.696	20	153	-.006	.120	.450	-.423	20	210	-.160	.123	.197	-.805
20	103	-.045	.134	.489	-.574	20	154	-.142	.124	.371	-.554	20	211	-.143	.124	.302	-.767
20	104	-.045	.152	.727	-.469	20	155	-.027	.102	.413	-.387	20	212	-.096	.091	.249	-.432
20	105	-.048	.159	.720	-.488	20	156	-.137	.113	.277	-.582	20	213	-.114	.108	.291	-.571
20	106	-.035	.151	.750	-.473	20	157	-.070	.106	.372	-.568	20	214	-.178	.118	.190	-.746
20	107	-.054	.134	.637	-.511	20	158	-.207	.125	.278	-.780	20	215	-.158	.127	.211	-.890
20	108	-.060	.123	.436	-.473	20	159	-.005	.121	.445	-.459	20	216	-.087	.099	.291	-.397
20	109	-.137	.115	.311	-.509	20	160	-.140	.118	.248	-.711	20	217	-.098	.109	.247	-.489
20	110	-.052	.128	.436	-.484	20	161	-.301	.141	.204	-.771	20	218	-.174	.129	.228	-.855
20	111	-.016	.132	.488	-.511	20	162	-.217	.125	.252	-.703	20	219	-.165	.127	.203	-.850
20	112	-.028	.140	.717	-.402	20	163	-.046	.124	.618	-.452	20	220	-.073	.099	.246	-.426
20	113	-.094	.163	.921	-.371	20	164	-.024	.112	.414	-.489	20	221	-.080	.104	.278	-.552
20	114	-.082	.171	.774	-.382	20	165	-.167	.119	.248	-.675	20	222	-.162	.125	.342	-1.018
20	115	-.103	.174	.894	-.423	20	166	-.066	.125	.720	-.548	20	223	-.166	.144	.248	-.336
20	116	-.071	.162	.597	-.545	20	167	-.159	.125	.365	-.616	20	224	-.060	.094	.283	-.390

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	225	.087	.096	.244	-.428	20	330	-.078	.089	.231	-.345	20	382	-.046	.099	.288	-.424
220	226	-.103	.105	.231	-.664	20	331	-.075	.090	.248	-.342	20	383	-.040	.090	.213	-.379
220	227	-.167	.135	.236	-1.091	20	332	-.046	.089	.240	-.400	20	384	-.081	.090	.249	-.390
220	228	.204	.143	.200	-1.107	20	333	-.049	.089	.241	-.394	20	385	-.037	.100	.254	-.414
220	229	-.053	.091	.224	-.351	20	334	-.086	.091	.217	-.423	20	386	-.024	.101	.278	-.414
220	230	-.081	.095	.253	-.456	20	335	-.089	.090	.181	-.410	20	387	-.071	.104	.239	-.472
220	231	.146	.136	.245	-.762	20	336	-.059	.088	.229	-.349	20	388	-.095	.104	.253	-.491
220	232	-.183	.142	.212	-.831	20	337	-.063	.089	.231	-.461	20	389	-.043	.088	.268	-.345
220	233	-.030	.095	.328	-.377	20	338	-.113	.097	.197	-.449	20	390	-.034	.088	.255	-.311
220	234	-.050	.079	.195	-.311	20	339	-.135	.104	.218	-.654	20	391	-.147	.107	.219	-.546
220	235	-.080	.096	.242	-.416	20	340	-.038	.086	.321	-.315	20	392	-.067	.088	.220	-.355
220	236	.101	.101	.210	-.651	20	341	-.035	.087	.330	-.320	20	393	-.090	.086	.207	-.371
220	237	.146	.153	.270	-1.364	20	342	-.072	.088	.296	-.357	20	394	-.034	.091	.265	-.352
220	238	-.049	.096	.335	-.378	20	343	-.081	.088	.297	-.363	20	395	-.020	.088	.278	-.327
220	239	-.066	.099	.342	-.437	20	344	-.040	.091	.252	-.345	20	396	-.071	.093	.257	-.410
220	240	-.070	.102	.336	-.435	20	345	-.037	.091	.261	-.377	20	397	-.095	.089	.252	-.406
220	241	.113	.113	.050	-.678	20	346	-.078	.094	.239	-.416	20	398	-.053	.087	.310	-.363
220	242	-.034	.094	.253	-.388	20	347	-.092	.093	.223	-.425	20	399	-.018	.083	.342	-.316
220	243	-.043	.092	.222	-.385	20	348	-.054	.097	.266	-.451	20	400	-.066	.087	.300	-.373
220	244	-.060	.093	.230	-.383	20	349	-.056	.099	.290	-.444	20	401	-.038	.098	.295	-.400
220	245	.132	.119	.203	-.694	20	350	-.114	.108	.262	-.568	20	402	-.088	.087	.293	-.399
220	301	-.274	.121	.178	-.647	20	351	-.045	.082	.184	-.371	20	403	-.028	.089	.340	-.320
220	302	-.038	.099	.271	-.428	20	352	-.278	.112	.071	-.740	20	404	-.012	.088	.364	-.298
220	303	.101	.112	.252	-.504	20	353	-.051	.094	.257	-.370	20	405	-.057	.090	.343	-.335
220	304	-.048	.097	.258	-.447	20	354	-.077	.096	.244	-.448	20	406	-.076	.091	.331	-.360
220	305	-.037	.097	.284	-.368	20	355	-.039	.095	.286	-.338	20	407	-.038	.094	.322	-.433
220	306	-.052	.097	.257	-.373	20	356	-.035	.095	.302	-.330	20	408	-.040	.083	.202	-.327
220	307	.118	.103	.249	-.539	20	357	-.077	.098	.274	-.368	20	409	-.064	.097	.276	-.432
220	308	-.068	.108	.245	-.538	20	358	-.090	.097	.265	-.384	20	410	-.086	.094	.238	-.457
220	309	-.059	.107	.268	-.471	20	359	-.046	.087	.272	-.364	20	411	-.033	.095	.271	-.406
220	310	-.079	.095	.199	-.481	20	360	-.097	.094	.276	-.664	20	412	-.005	.094	.279	-.386
220	311	-.064	.106	.241	-.525	20	361	-.047	.094	.261	-.357	20	413	-.066	.097	.249	-.401
220	312	.111	.128	.336	-.804	20	362	-.084	.088	.230	-.413	20	414	-.095	.096	.182	-.435
220	313	-.152	.141	.312	-.936	20	363	-.041	.087	.254	-.360	20	415	-.037	.087	.269	-.311
220	314	-.183	.159	.322	-1.035	20	364	-.035	.087	.268	-.371	20	416	-.080	.092	.244	-.404
220	315	-.054	.098	.261	-.499	20	365	-.076	.090	.233	-.415	20	417	-.033	.092	.229	-.336
220	316	-.014	.096	.290	-.362	20	366	-.093	.089	.222	-.456	20	418	-.034	.095	.241	-.333
220	317	-.103	.108	.332	-.430	20	367	-.043	.091	.305	-.393	20	419	-.019	.094	.267	-.309
220	318	-.048	.096	.320	-.370	20	368	-.042	.091	.279	-.392	20	420	-.020	.090	.245	-.306
220	319	-.027	.095	.351	-.378	20	369	-.092	.095	.243	-.465	20	421	-.043	.092	.221	-.357
220	320	-.053	.096	.337	-.462	20	370	-.031	.085	.225	-.293	20	501	-.152	.110	.194	-.623
220	321	.115	.100	.303	-.523	20	371	-.032	.090	.308	-.337	20	502	-.144	.131	.259	-.699
220	322	-.062	.102	.264	-.431	20	372	-.026	.090	.308	-.337	20	503	-.138	.115	.203	-.679
220	323	-.047	.101	.259	-.441	20	373	-.070	.095	.314	-.342	20	504	-.266	.125	.177	-1.318
220	324	-.076	.104	.264	-.535	20	374	-.087	.094	.289	-.406	20	505	-.075	.113	.262	-1.003
220	325	.145	.114	.255	-.644	20	375	-.037	.089	.306	-.365	20	506	-.169	.107	.196	-.745
220	326	-.110	.112	.256	-.503	20	376	-.032	.088	.327	-.344	20	507	-.069	.099	.268	-.546
220	327	-.119	.122	.349	-.820	20	377	-.083	.092	.291	-.421	20	508	-.311	.122	.050	-1.153
220	328	-.112	.110	.322	-.620	20	378	-.026	.084	.244	-.287	20	509	-.249	.139	.184	-.816
220	329	-.153	.100	.127	-.592	20	381	-.275	.111	.087	-.655	20	510	-.118	.107	.225	-.767

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	511	.180	.106	.219	-.633	20	561	.082	.106	.300	-.524	20	828	-.059	.132	.495	-.725
20	512	.070	.100	.239	-.703	20	562	-.213	.129	.216	-.079	20	829	-.069	.170	.942	-.373
20	513	.233	.100	.105	-.957	20	563	-.067	.094	.260	-.479	20	830	-.149	.148	.536	-.776
20	514	.058	.096	.271	-.472	20	564	-.027	.087	.251	-.353	20	831	-.173	.140	.297	-.793
20	515	.241	.134	.138	-.151	20	565	-.028	.086	.259	-.355	20	832	-.054	.106	.322	-.414
20	516	.111	.109	.225	-.353	20	566	-.028	.098	.348	-.349	20	901	-.197	.171	.440	-.119
20	517	.122	.103	.221	-.599	20	567	-.021	.097	.351	-.354	20	902	-.176	.184	.374	-.124
20	518	.244	.103	.117	-.111	20	568	-.091	.109	.314	-.581	20	903	-.173	.171	.501	-.063
20	519	.048	.091	.230	-.499	20	569	-.072	.110	.317	-.481	20	904	-.258	.171	.384	-.1280
20	520	.146	.098	.177	-.499	20	570	-.063	.102	.310	-.386	20	905	-.145	.149	.341	-.106
20	521	.133	.121	.233	-.499	20	571	-.017	.094	.328	-.308	20	907	-.128	.136	.285	-.856
20	522	.066	.109	.243	-.444	20	572	-.040	.094	.294	-.338	20	908	-.173	.155	.265	-.170
20	523	.289	.114	.244	-.222	20	573	-.031	.094	.306	-.324	20	909	-.111	.135	.361	-.833
20	524	.074	.094	.245	-.222	20	574	-.044	.094	.293	-.343	20	910	-.087	.112	.271	-.576
20	525	.146	.102	.197	-.460	20	575	-.365	.128	.114	-.944	20	911	-.086	.130	.550	-.534
20	526	.059	.093	.250	-.333	20	576	-.066	.099	.256	-.510	20	912	-.036	.233	.321	-.542
20	527	.123	.102	.114	-.444	20	577	-.047	.091	.278	-.426	20	913	-.039	.126	.507	-.507
20	528	.125	.139	.373	-.599	20	578	-.035	.086	.264	-.355	20	914	-.069	.109	.459	-.466
20	529	.111	.120	.286	-.699	20	579	-.048	.087	.254	-.390	20	915	-.145	.122	.284	-.683
20	530	.044	.086	.127	-.699	20	580	-.017	.089	.260	-.354	20	916	-.131	.113	.396	-.547
20	531	.044	.086	.242	-.333	20	581	-.001	.090	.272	-.374	20	917	-.060	.112	.322	-.701
20	532	.022	.085	.233	-.333	20	582	-.039	.089	.315	-.344	20	918	-.051	.102	.326	-.477
20	533	.032	.088	.243	-.333	20	583	-.040	.089	.316	-.371	20	919	-.040	.104	.312	-.505
20	534	.023	.088	.250	-.333	20	801	-.059	.106	.273	-.390	20	920	-.101	.109	.281	-.537
20	535	.110	.127	.220	-.333	20	802	-.165	.126	.228	-.924	20	921	-.042	.103	.306	-.391
20	536	.123	.134	.278	-.333	20	803	-.261	.210	.215	-.031	20	922	-.048	.102	.246	-.436
20	537	.088	.102	.300	-.333	20	804	-.255	.174	.224	-.420	30	101	-.062	.128	.484	-.550
20	538	.081	.094	.324	-.333	20	805	-.210	.185	.261	-.213	30	102	-.042	.123	.461	-.587
20	539	.017	.091	.331	-.333	20	806	-.197	.155	.239	-.166	30	103	-.075	.123	.404	-.472
20	540	.031	.091	.325	-.333	20	807	-.064	.103	.260	-.501	30	104	-.028	.119	.505	-.435
20	541	.098	.133	.288	-.333	20	808	-.051	.100	.374	-.412	30	105	-.005	.136	.617	-.377
20	542	.098	.152	.017	-.333	20	809	-.068	.106	.377	-.450	30	106	-.009	.144	.722	-.462
20	543	.033	.107	.258	-.333	20	810	-.148	.123	.268	-.714	30	107	-.061	.134	.641	-.578
20	544	.033	.099	.313	-.333	20	811	-.148	.152	.455	-.062	30	108	-.043	.119	.556	-.491
20	545	.022	.098	.282	-.333	20	812	-.182	.159	.209	-.063	30	109	-.051	.110	.474	-.592
20	546	.022	.097	.301	-.333	20	813	-.165	.152	.216	-.148	30	110	-.043	.123	.496	-.614
20	547	.022	.094	.319	-.333	20	814	-.184	.136	.186	-.907	30	111	-.058	.120	.468	-.543
20	548	.095	.117	.255	-.333	20	815	-.076	.114	.318	-.722	30	112	-.018	.121	.545	-.408
20	549	.134	.126	.288	-.333	20	816	-.057	.106	.322	-.478	30	113	-.002	.122	.518	-.454
20	550	.077	.104	.251	-.333	20	817	-.100	.123	.406	-.806	30	114	-.042	.147	.828	-.407
20	551	.022	.094	.355	-.333	20	818	-.148	.116	.251	-.602	30	115	-.028	.166	.859	-.415
20	552	.033	.089	.294	-.333	20	819	-.101	.157	.567	-.796	30	116	-.020	.145	.696	-.488
20	553	.023	.088	.307	-.333	20	820	-.129	.210	.555	-.473	30	117	-.061	.130	.478	-.479
20	554	.033	.088	.279	-.333	20	821	-.105	.139	.551	-.590	30	118	-.052	.112	.392	-.555
20	555	.104	.115	.258	-.333	20	822	-.259	.169	.249	-.082	30	119	-.043	.123	.451	-.512
20	556	.089	.105	.339	-.333	20	823	-.074	.100	.428	-.494	30	120	-.004	.121	.607	-.437
20	557	.022	.096	.308	-.333	20	824	-.048	.098	.303	-.407	30	121	-.043	.110	.529	-.470
20	558	.022	.084	.347	-.333	20	825	-.167	.155	.429	-.606	30	122	-.087	.100	.289	-.433
20	559	.033	.084	.347	-.333	20	826	-.167	.155	.429	-.606	30	123	-.078	.119	.448	-.527
20	560	.022	.083	.367	-.333	20	827	-.182	.148	.265	-.942	30	124	-.129	.109	.309	-.529

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	125	.039	.110	.409	.430	30	176	.044	.096	.296	.346	30	233	.082	.095	.220	.435
30	126	.015	.112	.456	.377	30	177	.046	.095	.282	.329	30	234	.051	.085	.249	.286
30	127	.019	.137	.369	.404	30	178	.041	.092	.387	.332	30	235	.080	.100	.264	.357
30	128	.099	.106	.369	.419	30	179	.093	.095	.241	.402	30	236	.063	.092	.211	.419
30	129	.040	.108	.420	.511	30	180	.064	.095	.257	.396	30	237	.092	.112	.230	.746
30	130	.046	.116	.485	.428	30	181	.030	.090	.312	.406	30	238	.054	.093	.250	.388
30	131	.016	.118	.598	.319	30	182	.039	.098	.316	.392	30	239	.068	.096	.269	.396
30	132	.079	.139	.698	.337	30	183	.082	.088	.240	.362	30	240	.045	.096	.276	.361
30	133	.090	.160	.803	.367	30	184	.010	.093	.271	.333	30	241	.083	.091	.310	.446
30	134	.045	.162	.779	.391	30	185	.019	.096	.329	.298	30	242	.037	.095	.279	.396
30	135	.023	.131	.581	.413	30	186	.021	.097	.332	.325	30	243	.039	.097	.234	.415
30	136	.054	.119	.505	.392	30	187	.048	.097	.380	.379	30	244	.071	.100	.213	.416
30	137	.050	.099	.324	.404	30	188	.037	.100	.433	.272	30	245	.052	.100	.351	.436
30	138	.008	.101	.338	.367	30	189	.048	.102	.396	.265	30	301	.142	.101	.169	.567
30	140	.008	.106	.469	.319	30	190	.042	.096	.349	.255	30	302	.055	.096	.282	.399
30	141	.037	.100	.416	.370	30	191	.027	.101	.299	.370	30	303	.111	.104	.409	.440
30	142	.100	.109	.311	.465	30	192	.015	.096	.350	.373	30	304	.055	.104	.264	.430
30	143	.036	.098	.405	.410	30	193	.040	.095	.350	.378	30	305	.059	.104	.256	.485
30	144	.056	.099	.409	.397	30	201	.059	.111	.354	.464	30	306	.066	.106	.255	.522
30	145	.030	.096	.333	.367	30	202	.070	.117	.358	.554	30	307	.107	.112	.256	.608
30	146	.002	.111	.381	.365	30	203	.065	.131	.456	.637	30	308	.061	.108	.300	.532
30	147	.011	.117	.505	.329	30	204	.095	.101	.263	.414	30	309	.065	.110	.326	.531
30	148	.055	.104	.285	.410	30	205	.062	.104	.355	.453	30	310	.071	.098	.274	.545
30	149	.023	.099	.328	.394	30	206	.063	.119	.333	.571	30	311	.068	.108	.390	.597
30	150	.008	.107	.491	.349	30	207	.085	.112	.507	.541	30	312	.076	.114	.338	.516
30	151	.009	.106	.543	.348	30	208	.092	.099	.248	.426	30	313	.065	.123	.647	.638
30	152	.024	.106	.393	.331	30	209	.059	.097	.352	.366	30	314	.109	.145	.561	.797
30	153	.024	.111	.662	.341	30	210	.064	.109	.344	.427	30	315	.060	.109	.369	.373
30	154	.005	.107	.413	.408	30	211	.082	.113	.363	.506	30	316	.033	.093	.292	.326
30	155	.004	.106	.447	.392	30	212	.092	.097	.330	.430	30	317	.107	.103	.204	.509
30	156	.024	.104	.349	.494	30	213	.062	.098	.299	.533	30	318	.055	.100	.305	.434
30	157	.044	.102	.359	.478	30	214	.068	.102	.449	.471	30	319	.052	.098	.304	.408
30	158	.051	.092	.270	.373	30	215	.089	.108	.247	.483	30	320	.065	.100	.268	.385
30	159	.018	.106	.482	.499	30	216	.080	.094	.242	.405	30	321	.109	.104	.230	.457
30	160	.033	.103	.376	.453	30	217	.049	.091	.259	.356	30	322	.060	.106	.305	.410
30	161	.152	.117	.330	.567	30	218	.066	.098	.254	.378	30	323	.058	.108	.262	.417
30	162	.096	.103	.337	.527	30	219	.075	.102	.245	.645	30	324	.072	.110	.254	.522
30	163	.031	.097	.306	.358	30	220	.081	.094	.188	.469	30	325	.122	.118	.267	.659
30	164	.019	.103	.389	.419	30	221	.050	.092	.231	.406	30	326	.076	.099	.388	.430
30	165	.053	.105	.376	.411	30	222	.070	.099	.241	.396	30	327	.071	.115	.310	.569
30	166	.032	.096	.333	.332	30	223	.074	.099	.247	.480	30	328	.044	.093	.272	.395
30	167	.053	.095	.307	.327	30	224	.056	.097	.247	.405	30	329	.079	.106	.318	.389
30	168	.046	.089	.354	.321	30	225	.084	.099	.325	.435	30	330	.084	.088	.211	.427
30	169	.060	.096	.321	.380	30	226	.060	.099	.295	.440	30	331	.100	.091	.205	.446
30	170	.017	.086	.471	.309	30	227	.078	.108	.275	.466	30	332	.058	.095	.259	.407
30	171	.039	.086	.319	.345	30	228	.080	.098	.226	.418	30	333	.039	.093	.271	.372
30	172	.012	.099	.354	.335	30	229	.055	.092	.345	.354	30	334	.087	.097	.249	.428
30	173	.019	.098	.381	.336	30	230	.077	.095	.280	.383	30	335	.095	.099	.273	.450
30	174	.003	.094	.351	.307	30	231	.067	.105	.278	.813	30	336	.049	.088	.293	.313
30	175	.068	.092	.305	.368	30	232	.089	.113	.274	.792	30	337	.034	.088	.278	.298

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPNEAN	CPRMS	CPMAX	CPMIN
30	569	.085	.097	.282	-.402	30	904	-.181	.149	.304	-1.305	40	133	.006	.111	.603	-.402
30	570	-.087	.091	.216	-.429	30	905	-.126	.125	.279	-.795	40	134	-.039	.118	.509	-.452
30	571	-.045	.087	.349	-.440	30	907	-.116	.111	.294	-.627	40	135	-.018	.105	.334	-.386
30	572	-.042	.086	.363	-.408	30	908	-.109	.125	.288	-.620	40	136	-.048	.095	.401	-.291
30	573	-.046	.086	.338	-.418	30	909	-.079	.110	.365	-.526	40	137	-.061	.094	.276	-.423
30	574	-.060	.088	.311	-.433	30	910	-.095	.100	.321	-.498	40	138	-.036	.099	.289	-.463
30	575	-.272	.120	.126	-.797	30	911	-.120	.110	.312	-.509	40	140	-.132	.108	.291	-.537
30	576	-.092	.107	.292	-.585	30	912	-.049	.166	.946	-.523	40	141	-.048	.098	.352	-.399
30	577	-.049	.100	.361	-.442	30	913	-.010	.137	.596	-.439	40	142	-.085	.099	.264	-.498
30	578	-.059	.098	.358	-.403	30	914	-.063	.112	.399	-.456	40	143	-.031	.103	.393	-.503
30	579	-.068	.101	.367	-.414	30	915	-.103	.110	.340	-.503	40	144	-.050	.095	.363	-.401
30	580	-.047	.088	.281	-.362	30	916	-.127	.114	.333	-.537	40	145	-.173	.113	.387	-.654
30	581	-.014	.089	.307	-.321	30	917	-.079	.095	.229	-.447	40	146	-.021	.099	.352	-.387
30	582	-.050	.088	.286	-.365	30	918	-.070	.091	.207	-.367	40	147	-.011	.098	.397	-.403
30	583	-.057	.090	.269	-.367	30	919	-.062	.093	.239	-.406	40	148	-.054	.088	.220	-.397
30	801	-.071	.096	.277	-.414	30	920	-.111	.098	.221	-.550	40	149	-.022	.092	.339	-.403
30	802	-.170	.115	.183	-.806	30	921	-.060	.096	.247	-.434	40	150	-.158	.105	.308	-.524
30	803	-.242	.165	.265	-1.391	30	922	-.074	.094	.238	-.377	40	151	-.020	.103	.402	-.394
30	804	-.247	.175	.228	-1.139	40	101	-.043	.135	.613	-.633	40	152	-.000	.105	.342	-.410
30	805	-.157	.126	.266	-.876	40	102	-.035	.135	.693	-.571	40	153	-.008	.107	.601	-.401
30	806	-.149	.105	.200	-.713	40	103	-.079	.127	.618	-.860	40	154	-.128	.119	.300	-.526
30	807	-.071	.094	.247	-.369	40	104	-.030	.114	.437	-.499	40	155	-.008	.100	.476	-.308
30	808	-.073	.095	.228	-.371	40	105	-.043	.110	.484	-.443	40	156	-.022	.098	.340	-.367
30	809	-.072	.097	.243	-.406	40	106	-.044	.124	.605	-.450	40	157	-.037	.096	.319	-.367
30	810	-.131	.105	.185	-.456	40	107	-.091	.128	.515	-.553	40	158	-.172	.103	.206	-.581
30	811	-.097	.120	.360	-.565	40	108	-.051	.116	.522	-.466	40	159	-.029	.088	.290	-.334
30	812	-.108	.122	.335	-.540	40	109	-.017	.101	.453	-.308	40	160	-.023	.092	.379	-.299
30	813	-.100	.120	.371	-.550	40	110	-.024	.144	.721	-1.199	40	161	-.294	.121	.081	-.758
30	814	-.132	.119	.340	-.517	40	111	-.055	.135	.484	-.912	40	162	-.176	.103	.305	-.491
30	815	-.073	.103	.268	-.411	40	112	-.032	.128	.470	-.635	40	163	-.036	.098	.365	-.412
30	816	-.070	.102	.262	-.424	40	113	-.009	.117	.425	-.677	40	164	-.018	.098	.611	-.369
30	817	-.083	.104	.247	-.406	40	114	-.064	.115	.516	-.451	40	165	-.044	.099	.282	-.435
30	818	-.137	.114	.258	-.516	40	115	-.029	.127	.717	-.446	40	166	-.031	.096	.369	-.393
30	819	-.024	.136	.559	-.533	40	116	-.054	.128	.515	-.472	40	167	-.163	.109	.301	-.594
30	820	-.013	.138	.675	-.465	40	117	-.092	.116	.312	-.482	40	168	-.032	.089	.293	-.352
30	821	-.135	.110	.352	-.558	40	118	-.057	.102	.331	-.404	40	169	-.028	.090	.316	-.385
30	822	-.178	.108	.147	-.694	40	119	-.033	.137	.642	-.697	40	170	-.018	.089	.301	-.340
30	823	-.070	.091	.254	-.400	40	120	-.067	.123	.645	-.494	40	171	-.151	.104	.243	-.544
30	824	-.079	.097	.235	-.451	40	121	-.056	.106	.562	-.430	40	172	-.006	.091	.305	-.311
30	825	-.006	.136	.516	-.436	40	122	-.086	.096	.266	-.412	40	173	-.003	.091	.308	-.296
30	826	-.199	.123	.318	-.611	40	123	-.075	.124	.497	-.592	40	174	-.002	.091	.293	-.305
30	827	-.120	.114	.314	-.648	40	124	-.299	.118	.160	-.713	40	175	-.153	.102	.161	-.507
30	828	-.020	.130	.648	-.451	40	125	-.026	.116	.517	-.457	40	176	-.040	.098	.339	-.395
30	829	-.024	.117	.406	-.394	40	126	-.069	.104	.479	-.286	40	177	-.029	.093	.364	-.353
30	830	-.185	.127	.367	-.597	40	127	-.034	.117	.426	-.389	40	178	-.024	.092	.369	-.346
30	831	-.109	.103	.338	-.662	40	128	-.096	.099	.235	-.437	40	179	-.172	.111	.230	-.573
30	832	-.071	.092	.281	-.353	40	129	-.036	.107	.350	-.532	40	180	-.050	.087	.247	-.388
30	901	-.167	.155	.409	-.173	40	130	-.070	.107	.311	-.503	40	181	-.022	.082	.256	-.351
30	902	-.144	.150	.367	-.420	40	131	-.017	.101	.358	-.378	40	182	-.013	.089	.261	-.333
30	903	-.116	.138	.301	-.899	40	132	-.082	.097	.495	-.298	40	183	-.158	.093	.159	-.538

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	184	.021	.089	266	332	40	241	.057	.092	255	317	40	346	.077	.102	309	459
40	185	.006	.089	278	321	40	242	.027	.095	265	342	40	347	.073	.102	324	472
40	186	.004	.090	282	321	40	243	.023	.088	279	330	40	348	.032	.091	321	304
40	187	.138	.104	209	368	40	244	.020	.084	300	340	40	349	.019	.089	318	298
40	188	.003	.095	347	300	40	245	.027	.101	349	308	40	350	.069	.097	290	387
40	189	.007	.095	416	315	40	300	.300	.122	334	349	40	351	.063	.090	210	352
40	190	.008	.091	429	311	40	301	.069	.092	335	344	40	352	.301	.124	083	729
40	191	.130	.109	367	366	40	303	.075	.099	283	430	40	353	.072	.096	223	421
40	192	.016	.092	477	346	40	304	.066	.096	265	451	40	354	.105	.093	233	421
40	193	.035	.092	477	337	40	305	.063	.096	258	447	40	355	.073	.097	271	444
40	201	.030	.118	542	343	40	306	.064	.096	271	477	40	356	.053	.095	270	423
40	202	.042	.121	502	327	40	307	.076	.095	284	485	40	357	.091	.100	245	476
40	203	.024	.134	606	322	40	308	.063	.106	353	475	40	358	.082	.101	258	451
40	204	.087	.104	322	355	40	309	.060	.113	399	484	40	359	.036	.093	324	347
40	205	.033	.101	311	377	40	310	.062	.100	272	451	40	359	.067	.099	270	577
40	206	.033	.107	407	488	40	311	.037	.110	353	509	40	361	.054	.095	255	394
40	207	.050	.128	472	001	40	312	.064	.120	374	634	40	363	.095	.094	206	396
40	208	.079	.105	556	000	40	313	.048	.130	455	533	40	364	.062	.088	255	349
40	209	.030	.103	319	333	40	314	.061	.171	655	870	40	365	.042	.087	253	328
40	210	.037	.105	340	388	40	315	.077	.104	287	423	40	366	.074	.092	233	371
40	211	.046	.116	381	399	40	316	.055	.089	445	388	40	367	.060	.092	242	359
40	212	.083	.093	202	339	40	317	.074	.096	448	388	40	368	.027	.093	304	304
40	213	.040	.094	339	398	40	318	.065	.109	395	477	40	369	.019	.091	317	320
40	214	.023	.094	298	000	40	319	.054	.107	314	455	40	370	.066	.096	280	385
40	215	.051	.113	229	444	40	320	.062	.106	305	332	40	372	.060	.094	266	406
40	216	.081	.095	334	405	40	321	.077	.105	394	517	40	373	.065	.094	211	420
40	217	.029	.091	275	333	40	322	.061	.101	272	455	40	374	.048	.093	233	401
40	218	.023	.092	18	04	40	323	.050	.103	307	488	40	375	.079	.100	236	454
40	219	.044	.095	64	00	40	324	.058	.104	369	503	40	376	.060	.101	259	446
40	220	.076	.102	84	08	40	325	.074	.103	359	513	40	377	.021	.091	273	373
40	221	.025	.098	04	11	40	326	.063	.094	223	421	40	378	.007	.090	281	352
40	222	.028	.096	91	44	40	327	.068	.110	411	498	40	378	.053	.095	263	399
40	223	.041	.096	64	41	40	328	.037	.099	422	422	40	379	.018	.089	348	349
40	224	.033	.094	08	41	40	329	.095	.101	228	430	40	380	.287	.113	076	695
40	225	.071	.096	49	40	40	330	.101	.091	211	419	40	381	.069	.106	245	408
40	226	.030	.095	49	40	40	331	.104	.093	212	423	40	382	.056	.095	254	355
40	227	.024	.094	20	40	40	332	.063	.094	365	422	40	383	.094	.092	202	417
40	228	.038	.101	77	36	40	333	.041	.093	272	459	40	384	.057	.091	268	375
40	229	.038	.085	44	44	40	334	.083	.097	488	422	40	385	.032	.091	285	353
40	230	.066	.087	28	44	40	335	.077	.100	417	422	40	386	.032	.091	285	353
40	231	.022	.086	67	33	40	336	.038	.095	417	422	40	387	.063	.095	246	420
40	232	.029	.084	98	33	40	337	.023	.093	362	431	40	388	.047	.095	254	410
40	233	.010	.081	31	33	40	338	.072	.099	255	434	40	389	.014	.091	310	364
40	234	.027	.082	31	33	40	339	.083	.102	509	434	40	390	.007	.090	292	353
40	235	.027	.083	68	32	40	340	.080	.102	509	434	40	391	.085	.106	244	420
40	236	.024	.097	16	40	40	341	.062	.094	455	435	40	392	.094	.089	233	459
40	237	.019	.093	70	38	40	342	.111	.096	498	435	40	393	.077	.089	234	459
40	238	.037	.083	33	33	40	343	.116	.097	481	498	40	394	.034	.090	234	322
40	239	.065	.087	28	33	40	344	.063	.098	577	481	40	395	.003	.086	267	264
40	240	.018	.085	58	33	40	345	.038	.097	200	430	40	396	.038	.093	229	333
40						40				395	435	40	397	.031	.091	310	325

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	398	.018	.095	.284	3351	40	552	.212	.107	1332	557	40	577	.037	.087	.269	344
40	399	.040	.090	.257	3555	40	553	.067	.084	2336	407	40	578	.049	.086	.266	359
40	400	.089	.096	.217	4330	40	554	.085	.097	2324	415	40	579	.043	.088	.264	364
40	401	.049	.102	.265	3771	40	555	.087	.092	2255	427	40	580	.042	.091	.266	356
40	402	.078	.097	.217	4339	40	556	.083	.091	2368	434	40	581	.018	.092	.326	326
40	403	.033	.093	.275	3552	40	557	.055	.092	3409	476	40	582	.050	.096	.257	403
40	404	.002	.091	.331	2888	40	558	.073	.092	3399	467	40	583	.053	.095	.360	297
40	405	.001	.098	.312	2999	40	559	.047	.090	3220	442	40	801	.069	.105	.455	515
40	406	.009	.100	.379	2200	40	560	.069	.095	2855	634	40	802	.112	.119	.279	933
40	407	.009	.098	.388	2888	40	561	.071	.094	2833	431	40	803	.245	.174	.357	160
40	408	.009	.091	.285	2888	40	562	.057	.091	2889	463	40	804	.246	.203	.366	271
40	409	.090	.098	.277	3409	40	563	.070	.090	2822	450	40	805	.150	.131	.277	986
40	410	.082	.095	.270	3387	40	564	.038	.087	2855	402	40	806	.106	.098	.257	554
40	411	.024	.094	.262	3357	40	565	.052	.089	2860	422	40	807	.084	.100	.234	446
40	412	.028	.092	.312	3397	40	566	.032	.096	3330	469	40	808	.092	.105	.210	485
40	413	.015	.096	.283	3363	40	567	.317	.113	024	477	40	809	.071	.108	.249	670
40	414	.055	.094	.257	3363	40	568	.088	.095	197	450	40	810	.085	.111	.242	718
40	415	.055	.091	.254	4451	40	569	.044	.091	254	344	40	811	.092	.118	.249	681
40	416	.095	.097	.215	4406	40	570	.051	.095	355	51	40	812	.097	.116	.320	552
40	417	.030	.090	.295	3309	40	571	.099	.093	313	19	40	813	.085	.112	.306	609
40	418	.013	.098	.354	3309	40	572	.070	.094	225	22	40	814	.080	.103	.313	480
40	419	.030	.096	.408	2822	40	573	.052	.094	241	81	40	815	.071	.104	.210	449
40	420	.020	.086	.294	2860	40	574	.087	.107	264	66	40	816	.072	.105	.348	442
40	421	.034	.088	.266	3344	40	575	.075	.091	223	49	40	817	.073	.106	.327	494
40	550	.011	.099	.269	4220	40	576	.003	.092	310	00	40	818	.096	.108	.279	524
40	551	.032	.098	.259	4276	40	577	.052	.089	255	26	40	819	.008	.160	.590	521
40	552	.033	.092	.272	4222	40	578	.035	.086	258	07	40	820	.030	.158	.689	544
40	553	.044	.110	.075	7044	40	579	.046	.087	250	50	40	821	.178	.123	.353	668
40	554	.103	.100	.213	6884	40	580	.106	.123	331	11	40	822	.152	.111	.300	542
40	555	.088	.097	.224	4226	40	581	.033	.103	278	44	40	823	.084	.094	.309	417
40	556	.081	.098	.228	4492	40	582	.085	.104	254	55	40	824	.106	.109	.222	578
40	557	.222	.102	.130	6444	40	583	.035	.097	292	41	40	825	.014	.142	.999	389
40	558	.108	.097	.225	4899	40	584	.046	.100	310	50	40	826	.214	.127	.277	679
40	559	.091	.100	.285	7999	40	585	.019	.099	395	84	40	827	.138	.118	.236	703
40	560	.098	.105	.308	7800	40	586	.085	.096	228	23	40	828	.012	.152	.817	543
40	561	.088	.102	.262	4883	40	587	.130	.123	294	60	40	829	.005	.119	.502	386
40	562	.088	.095	.186	6488	40	588	.063	.085	221	62	40	830	.200	.133	.378	793
40	563	.088	.095	.244	4188	40	589	.044	.081	224	44	40	831	.123	.102	.233	476
40	564	.073	.091	.212	4438	40	590	.022	.082	297	74	40	832	.080	.097	.309	459
40	565	.076	.094	.255	4402	40	591	.048	.087	284	28	40	901	.135	.142	.329	989
40	566	.077	.091	.243	4228	40	592	.027	.085	303	01	40	902	.117	.143	.312	152
40	567	.235	.106	.104	5733	40	593	.115	.122	287	58	40	903	.084	.146	.422	960
40	568	.083	.091	.181	3998	40	594	.067	.095	284	33	40	904	.112	.158	.439	196
40	569	.070	.091	.196	4478	40	595	.022	.089	361	35	40	905	.103	.114	.330	647
40	570	.071	.091	.250	3922	40	596	.043	.092	282	68	40	906	.105	.105	.227	477
40	571	.093	.093	.256	4222	40	597	.045	.093	297	84	40	907	.005	.123	.459	620
40	572	.099	.100	.117	5577	40	598	.049	.093	271	11	40	908	.073	.121	.437	576
40	573	.069	.095	.219	3377	40	599	.034	.093	341	00	40	909	.095	.098	.254	487
40	574	.072	.095	.227	3652	40	600	.361	.146	108	55	40	910	.165	.113	.254	611
40	575	.073	.099	.238	3377	40	601	.063	.094	264	49	40	911	.016	.137	.333	361
40	576	.073	.099	.238	3377	40	602	.063	.094	264	49	40	912	.016	.137	.333	361

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	913	.024	.158	.742	.46	50	142	.096	.095	.22	.410	50	192	.050	.094	.293	.381
40	914	.062	.113	.342	.46	50	143	.035	.101	.32	.646	50	193	.058	.095	.253	.363
40	915	.113	.101	.889	.44	50	144	.067	.091	.27	.390	50	201	.018	.115	.414	.419
40	916	.068	.107	.886	.44	50	145	.008	.096	.32	.467	50	202	.018	.117	.491	.407
40	917	.088	.108	.454	.44	50	146	.019	.106	.29	.403	50	203	.087	.127	.617	.667
40	918	.091	.105	.219	.44	50	147	.037	.099	.40	.370	50	204	.064	.093	.288	.376
40	919	.062	.108	.262	.44	50	148	.067	.094	.42	.412	50	205	.015	.091	.344	.328
40	920	.053	.105	.276	.44	50	149	.037	.093	.74	.414	50	206	.095	.096	.472	.445
40	921	.057	.105	.323	.44	50	150	.010	.094	.37	.372	50	207	.023	.123	.458	.856
40	922	.092	.106	.223	.44	50	151	.032	.095	.33	.449	50	208	.060	.094	.304	.406
40	101	.020	.134	.561	.44	50	152	.022	.094	.34	.343	50	209	.012	.094	.431	.375
50	102	.019	.131	.629	.44	50	153	.018	.094	.33	.343	50	210	.101	.100	.598	.415
50	103	.044	.123	.855	.44	50	154	.004	.092	.38	.410	50	211	.018	.115	.449	.010
50	104	.011	.110	.450	.44	50	155	.032	.098	.62	.410	50	212	.066	.102	.368	.414
50	105	.092	.101	.496	.44	50	156	.046	.097	.71	.406	50	213	.025	.099	.405	.362
50	106	.037	.110	.426	.44	50	157	.056	.095	.99	.424	50	214	.085	.095	.473	.289
50	107	.069	.112	.390	.44	50	158	.026	.095	.55	.444	50	215	.032	.117	.612	.535
50	108	.044	.104	.398	.44	50	159	.038	.090	.55	.423	50	216	.056	.089	.247	.351
50	109	.060	.090	.684	.44	50	160	.046	.090	.77	.428	50	217	.018	.088	.257	.311
50	110	.002	.136	.656	.44	50	161	.054	.095	.99	.412	50	218	.077	.088	.327	.217
50	111	.022	.134	.889	.44	50	162	.055	.088	.43	.339	50	219	.028	.109	.421	.458
50	112	.016	.129	.889	.44	50	163	.042	.096	.59	.339	50	220	.053	.110	.343	.367
50	113	.003	.116	.334	.44	50	164	.036	.096	.55	.387	50	221	.015	.089	.305	.311
50	114	.110	.099	.516	.44	50	165	.038	.094	.61	.357	50	222	.082	.085	.381	.209
50	115	.027	.115	.514	.44	50	166	.036	.094	.66	.353	50	223	.027	.096	.317	.361
50	116	.072	.123	.402	.44	50	167	.034	.090	.69	.444	50	224	.023	.099	.290	.375
50	117	.074	.112	.421	.44	50	168	.039	.093	.77	.414	50	225	.059	.101	.265	.412
50	118	.052	.101	.555	.44	50	169	.019	.091	.99	.329	50	226	.023	.099	.277	.418
50	119	.012	.136	.445	.44	50	170	.024	.092	.99	.333	50	227	.066	.099	.429	.328
50	120	.118	.113	.748	.44	50	171	.022	.090	.66	.382	50	228	.032	.099	.301	.396
50	121	.046	.097	.444	.44	50	172	.023	.094	.69	.333	50	229	.021	.088	.258	.311
50	122	.077	.095	.335	.44	50	173	.013	.094	.85	.303	50	230	.053	.088	.239	.361
50	123	.042	.119	.609	.44	50	174	.021	.094	.71	.319	50	231	.025	.087	.267	.316
50	124	.049	.103	.777	.44	50	175	.048	.092	.69	.336	50	232	.065	.081	.328	.260
50	125	.008	.111	.999	.44	50	176	.058	.095	.20	.409	50	233	.072	.084	.352	.229
50	126	.117	.094	.288	.44	50	177	.030	.093	.44	.322	50	234	.018	.080	.245	.259
50	127	.045	.107	.432	.44	50	178	.031	.092	.33	.333	50	235	.057	.090	.245	.372
50	128	.114	.097	.887	.44	50	179	.067	.093	.97	.329	50	236	.025	.088	.242	.271
50	129	.002	.111	.335	.44	50	180	.075	.093	.88	.451	50	237	.063	.088	.351	.243
50	130	.020	.111	.880	.44	50	181	.030	.090	.55	.360	50	238	.017	.099	.285	.355
50	131	.010	.105	.564	.44	50	182	.013	.094	.99	.468	50	239	.050	.099	.257	.357
50	132	.129	.093	.290	.44	50	183	.056	.088	.63	.380	50	240	.016	.090	.289	.302
50	133	.003	.102	.331	.44	50	184	.031	.095	.66	.386	50	241	.077	.080	.204	.346
50	134	.032	.107	.994	.44	50	185	.011	.094	.45	.333	50	242	.020	.094	.280	.328
50	135	.023	.099	.885	.44	50	186	.013	.094	.45	.333	50	243	.011	.089	.272	.378
50	136	.077	.087	.885	.44	50	187	.044	.093	.88	.370	50	244	.076	.099	.329	.255
50	137	.070	.091	.558	.44	50	188	.026	.087	.41	.333	50	245	.036	.088	.288	.339
50	138	.039	.108	.450	.44	50	189	.013	.087	.47	.316	50	301	.079	.089	.250	.438
50	140	.004	.100	.337	.44	50	190	.021	.082	.22	.381	50	302	.070	.091	.203	.365
50	141	.063	.093	.660	.44	50	191	.056	.086	.64	.330	50	303	.075	.100	.254	.465

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3064	3064	.0661	.0933	.2336	.4331	3064	3064	.0799	.0888	.2210	.4385	3064	406	.0602	.0889	.2833	.308
3065	3065	.071	.0933	.241	.4335	3065	3065	.0654	.0886	.210	.4385	3065	406	.0602	.0889	.2833	.308
3066	3066	.0660	.092	.2355	.4221	3066	3066	.052	.085	.2366	.4331	3066	408	.0603	.0933	.2344	.349
3067	3067	.0666	.095	.270	.444	3067	3067	.084	.089	.2222	.4329	3067	409	.0606	.0933	.241	.428
3068	3068	.100	.100	.361	.416	3068	3068	.052	.088	.250	.429	3068	410	.0606	.0933	.255	.388
3069	3069	.058	.103	.481	.427	3069	3069	.030	.091	.296	.433	3069	411	.029	.097	.282	.360
310	310	.047	.090	.287	.320	310	310	.064	.097	.269	.433	310	412	.004	.096	.310	.315
311	311	.062	.094	.375	.339	311	311	.071	.099	.241	.44	311	413	.036	.099	.301	.371
312	312	.062	.118	.455	.493	312	312	.071	.099	.235	.424	312	414	.022	.096	.307	.344
313	313	.033	.130	.593	.461	313	313	.065	.092	.248	.437	313	415	.053	.088	.236	.345
314	314	.033	.168	.593	.461	314	314	.082	.091	.261	.438	314	416	.053	.088	.299	.403
315	315	.033	.168	.593	.461	315	315	.082	.091	.261	.438	315	417	.028	.087	.272	.342
316	316	.066	.093	.252	.422	316	316	.045	.095	.310	.422	316	418	.022	.093	.304	.360
317	317	.066	.089	.205	.345	317	317	.020	.096	.340	.422	317	419	.012	.093	.304	.296
318	318	.055	.093	.244	.345	318	318	.014	.095	.299	.422	318	420	.070	.088	.318	.196
319	319	.061	.097	.241	.343	319	319	.059	.100	.284	.418	319	421	.013	.086	.286	.365
320	320	.059	.096	.228	.420	320	320	.059	.090	.253	.439	320	421	.070	.091	.254	.411
321	321	.062	.096	.228	.417	321	321	.060	.086	.300	.435	321	421	.096	.106	.254	.458
322	322	.044	.103	.366	.444	322	322	.051	.084	.351	.440	322	421	.088	.095	.287	.407
323	323	.044	.103	.366	.444	323	323	.051	.084	.351	.440	323	421	.142	.099	.219	.516
324	324	.044	.104	.332	.407	324	324	.043	.088	.299	.430	324	421	.103	.099	.209	.599
325	325	.044	.108	.266	.433	325	325	.022	.088	.285	.430	325	421	.082	.099	.199	.394
326	326	.044	.089	.266	.433	326	326	.044	.088	.285	.430	326	421	.082	.099	.199	.394
327	327	.044	.089	.266	.433	327	327	.044	.088	.285	.430	327	421	.124	.099	.160	.412
328	328	.044	.110	.332	.407	328	328	.056	.086	.290	.421	328	421	.124	.109	.220	.482
329	329	.044	.092	.240	.345	329	329	.066	.090	.280	.421	329	421	.099	.093	.233	.492
330	330	.055	.096	.240	.345	330	330	.066	.090	.280	.421	330	421	.111	.099	.221	.557
331	331	.087	.087	.229	.340	331	331	.063	.089	.232	.431	331	421	.104	.099	.221	.506
332	332	.065	.092	.229	.340	332	332	.063	.089	.232	.431	332	421	.135	.090	.162	.441
333	333	.048	.091	.232	.428	333	333	.058	.088	.236	.430	333	421	.089	.090	.225	.356
334	334	.048	.096	.219	.428	334	334	.044	.089	.284	.430	334	421	.078	.089	.237	.385
335	335	.059	.097	.275	.428	335	335	.071	.093	.286	.430	335	421	.071	.087	.198	.477
336	336	.033	.091	.287	.428	336	336	.036	.094	.282	.430	336	421	.092	.089	.237	.408
337	337	.033	.099	.303	.428	337	337	.022	.087	.295	.430	337	421	.153	.090	.194	.460
338	338	.033	.099	.303	.428	338	338	.022	.087	.295	.430	338	421	.093	.090	.219	.472
339	339	.074	.083	.290	.428	339	339	.099	.087	.282	.421	339	421	.071	.099	.250	.420
340	340	.074	.083	.290	.428	340	340	.099	.087	.282	.421	340	421	.080	.099	.207	.440
341	341	.066	.086	.207	.428	341	341	.066	.086	.207	.428	341	421	.070	.084	.197	.446
342	342	.106	.086	.163	.428	342	342	.039	.091	.267	.428	342	421	.149	.096	.141	.492
343	343	.058	.086	.243	.428	343	343	.023	.088	.273	.428	343	421	.104	.096	.236	.511
344	344	.058	.092	.228	.428	344	344	.049	.093	.260	.428	344	421	.077	.096	.300	.510
345	345	.058	.090	.289	.428	345	345	.016	.088	.260	.428	345	421	.079	.098	.314	.535
346	346	.070	.094	.289	.428	346	346	.022	.084	.265	.428	346	421	.129	.094	.254	.555
347	347	.033	.094	.289	.428	347	347	.045	.084	.223	.428	347	421	.077	.087	.216	.351
348	348	.033	.094	.289	.428	348	348	.045	.084	.223	.428	348	421	.077	.087	.216	.351
349	349	.033	.094	.289	.428	349	349	.045	.084	.223	.428	349	421	.077	.087	.216	.351
350	350	.033	.094	.289	.428	350	350	.045	.084	.223	.428	350	421	.077	.087	.216	.351
351	351	.033	.094	.289	.428	351	351	.045	.084	.223	.428	351	421	.077	.087	.216	.351
352	352	.033	.094	.289	.428	352	352	.045	.084	.223	.428	352	421	.077	.087	.216	.351
353	353	.033	.094	.289	.428	353	353	.045	.084	.223	.428	353	421	.077	.087	.216	.351
354	354	.033	.094	.289	.428	354	354	.045	.084	.223	.428	354	421	.077	.087	.216	.351
355	355	.033	.094	.289	.428	355	355	.045	.084	.223	.428	355	421	.077	.087	.216	.351
356	356	.033	.094	.289	.428	356	356	.045	.084	.223	.428	356	421	.077	.087	.216	.351
357	357	.033	.094	.289	.428	357	357	.045	.084	.223	.428	357	421	.077	.087	.216	.351
358	358	.033	.094	.289	.428	358	358	.045	.084	.223	.428	358	421	.077	.087	.216	.351
359	359	.033	.094	.289	.428	359	359	.045	.084	.223	.428	359	421	.077	.087	.216	.351
360	360	.033	.094	.289	.428	360	360	.045	.084	.223	.428	360	421	.077	.087	.216	.351
361	361	.033	.094	.289	.428	361	361	.045	.084	.223	.428	361	421	.077	.087	.216	.351
362	362	.033	.094	.289	.428	362	362	.045	.084	.223	.428	362	421	.077	.087	.216	.351
363	363	.033	.094	.289	.428	363	363	.045	.084	.223	.428	363	421	.077	.087	.216	.351
364	364	.033	.094	.289	.428	364	364	.045	.084	.223	.428	364	421	.077	.087	.216	.351
365	365	.033	.094	.289	.428	365	365	.045	.084	.223	.428	365	421	.077	.087	.216	.351
366	366	.033	.094	.289	.428	366	366	.045	.084	.223	.428	366	421	.077	.087	.216	.351
367	367	.033	.094	.289	.428	367	367	.045	.084	.223	.428	367	421	.077	.087	.216	.351
368	368	.033	.094	.289	.428	368	368	.045	.084	.223	.428	368	421	.077	.087	.216	.351
369	369	.033	.094	.289	.428	369	369	.045	.084	.223	.428	369	421	.077	.087	.216	.351
370	370	.033	.094	.289	.428	370	370	.045	.084	.223	.428	370	421	.077	.087	.216	.351
371	371	.033	.094	.289	.428	371	371	.045	.084	.223	.428	371	421	.077	.087	.216	.351
372	372	.033	.094	.289	.428	372	372	.045	.084	.223	.428	372	421	.077	.087	.216	.351
373	373	.033	.094	.289	.428	373	373	.045	.084	.223	.428	373	421	.077	.087	.216	.351
374	374	.033	.094	.289	.428	374	374	.045	.084	.223	.428	374	421	.077	.087	.216	.351
375	375	.033	.094	.289	.428	375	375	.045	.084	.223	.428	375	421	.077	.087	.216	.351
376	376	.033	.094	.289	.428	376	376	.045	.084	.223	.428	376	421	.077	.087	.216	.351
377	377	.033	.094	.289	.428	377	377	.045	.084	.223	.428	377	421	.077	.087	.216	.351
378	378	.033	.094	.289	.428	378	378	.045	.084	.223	.428	378	421	.077	.087	.216	.351
379	379	.033	.094	.289	.428	379	379	.045	.084	.223	.428	379	421	.077	.087	.216	.351
380	380	.033	.094	.289	.428	380	380	.045	.084	.223	.428	380	421	.077	.087	.216	.351
381	381	.033	.094	.289	.428	381	381	.045	.084	.223	.428	381	421	.077	.087	.216	.351
382	382	.033	.094	.289	.428	382	382	.045	.084	.223	.428	382	421	.077	.087	.216	.351
383	383	.033	.094	.289	.428	383	383	.045	.084	.223	.428	383	421	.077	.087	.216	.351
384	384	.033	.094	.289	.428	384	384	.045	.084	.223	.428	384	421				

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	535	.061	.092	265	347	50	802	.126	.111	.290	-.798	50	921	-.063	.099	.325	-.415
50	536	-.082	.103	251	375	50	803	-.213	.167	.283	-1.238	50	922	-.098	.098	.306	-.545
50	537	-.033	.082	326	312	50	804	-.211	.193	.377	-1.183	50	101	-.058	.127	.529	-.567
50	538	-.074	.090	242	343	50	805	-.136	.123	.222	-.937	50	102	-.030	.112	.458	-.372
50	539	-.047	.086	280	344	50	806	-.122	.095	.195	-.487	50	103	-.039	.116	.582	-.374
50	540	-.062	.088	263	360	50	807	-.081	.098	.247	-.402	50	104	-.036	.111	.432	-.342
50	541	.050	.083	329	365	50	808	-.092	.101	.272	-.421	50	105	-.070	.112	.347	-.412
50	542	-.106	.099	214	421	50	809	-.058	.102	.264	-.521	50	106	-.073	.103	.309	-.403
50	543	-.079	.089	207	386	50	810	-.088	.109	.295	-.498	50	107	-.066	.103	.311	-.445
50	544	-.049	.086	226	342	50	811	-.083	.116	.396	-.657	50	108	-.072	.098	.361	-.421
50	545	-.055	.088	237	387	50	812	-.095	.116	.381	-.725	50	109	-.111	.095	.250	-.422
50	546	-.057	.079	318	326	50	813	-.077	.108	.271	-.497	50	110	-.040	.130	.506	-.960
50	547	-.065	.089	312	386	50	814	-.090	.103	.275	-.429	50	111	-.020	.120	.512	-.764
50	548	-.051	.093	313	407	50	815	-.061	.103	.288	-.491	50	112	-.037	.128	.462	-.480
50	549	-.057	.090	230	411	50	816	-.067	.102	.274	-.485	50	113	-.028	.110	.575	-.406
50	550	-.075	.091	288	446	50	817	-.063	.105	.292	-.484	50	114	-.066	.107	.347	-.455
50	551	-.058	.079	401	225	50	818	-.092	.112	.264	-.582	50	115	-.056	.110	.482	-.493
50	552	-.056	.094	244	379	50	819	-.006	.135	.585	-.701	50	116	-.095	.122	.357	-.629
50	553	-.044	.092	255	363	50	820	-.016	.150	.860	-.451	50	117	-.057	.103	.447	-.518
50	554	-.056	.093	244	371	50	821	-.169	.116	.204	-.659	50	118	-.074	.097	.390	-.484
50	555	-.092	.108	206	477	50	822	-.139	.104	.231	-.553	50	119	-.028	.134	.565	-.575
50	556	-.056	.092	346	256	50	823	-.084	.095	.234	-.468	50	120	-.051	.117	.476	-.441
50	557	-.066	.098	293	416	50	824	-.118	.100	.231	-.504	50	121	-.075	.110	.326	-.444
50	558	-.036	.095	313	369	50	825	-.015	.137	.702	-.418	50	122	-.084	.088	.214	-.391
50	559	-.054	.097	305	365	50	826	-.208	.119	.149	-.670	50	123	-.015	.131	.534	-.431
50	560	-.076	.086	361	212	50	827	-.114	.106	.226	-.445	50	124	-.174	.113	.159	-.582
50	561	-.074	.101	254	379	50	828	-.061	.138	.571	-.610	50	125	-.018	.128	.534	-.535
50	562	-.134	.110	159	544	50	829	-.064	.105	.338	-.379	50	126	-.042	.118	.462	-.399
50	563	-.053	.096	262	359	50	830	-.193	.128	.206	-.700	50	127	-.058	.098	.375	-.403
50	564	-.045	.093	272	347	50	831	-.096	.100	.226	-.498	50	128	-.130	.096	.278	-.469
50	565	-.080	.085	387	167	50	832	-.092	.095	.233	-.427	50	129	-.027	.112	.509	-.564
50	566	-.050	.088	260	394	50	901	-.107	.127	.308	-.043	50	130	-.007	.105	.501	-.569
50	567	-.037	.087	270	369	50	902	-.100	.138	.282	-1.434	50	131	-.010	.099	.393	-.365
50	568	-.109	.111	192	516	50	903	-.074	.141	.360	-1.312	50	132	-.044	.097	.294	-.431
50	569	-.060	.095	231	414	50	904	-.130	.156	.317	-1.065	50	133	-.029	.103	.453	-.414
50	570	-.079	.081	319	256	50	905	-.088	.115	.330	-.591	50	134	-.020	.105	.390	-.370
50	571	-.040	.095	320	341	50	907	-.094	.110	.326	-.561	50	135	-.046	.101	.307	-.389
50	572	-.048	.095	296	359	50	908	-.027	.131	.429	-.433	50	136	-.096	.099	.241	-.433
50	573	-.053	.095	309	373	50	909	-.060	.117	.355	-.437	50	137	-.094	.086	.234	-.429
50	574	-.081	.087	414	205	50	910	-.088	.104	.268	-.421	50	138	-.026	.105	.336	-.475
50	575	-.136	.107	149	544	50	911	-.159	.115	.190	-.535	50	140	-.096	.103	.317	-.483
50	576	-.053	.098	302	404	50	912	-.011	.139	.696	-.395	50	141	-.081	.096	.223	-.384
50	577	-.038	.095	313	373	50	913	-.024	.130	.715	-.362	50	142	-.104	.094	.327	-.415
50	578	-.051	.093	289	364	50	914	-.051	.101	.235	-.390	50	143	-.020	.110	.365	-.491
50	579	-.087	.086	415	205	50	915	-.099	.099	.237	-.465	50	144	-.077	.094	.213	-.363
50	580	-.036	.092	262	382	50	916	-.087	.105	.246	-.518	50	145	-.105	.116	.346	-.524
50	581	-.020	.093	291	360	50	917	-.077	.098	.255	-.459	50	146	-.045	.096	.363	-.371
50	582	-.053	.096	261	390	50	918	-.088	.094	.233	-.442	50	147	-.044	.084	.212	-.349
50	583	-.086	.086	379	229	50	919	-.052	.095	.250	-.425	50	148	-.079	.082	.178	-.398
50	801	-.065	.098	327	387	50	920	-.074	.096	.259	-.444	50	149	-.039	.096	.378	-.477

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	130	125	092	198	446	60	207	023	119	549	60	312	029	111	499	371	
60	131	059	099	332	388	60	208	047	099	347	60	313	020	105	432	443	
60	132	026	099	332	388	60	209	024	094	293	60	314	009	146	589	927	
60	133	049	092	253	411	60	210	034	103	341	60	315	104	103	492	492	
60	134	050	089	231	443	60	211	024	111	389	60	316	072	086	408	408	
60	135	066	088	208	443	60	212	050	098	306	60	317	082	102	413	413	
60	136	114	106	340	457	60	213	030	096	341	60	318	070	097	394	394	
60	137	049	092	248	443	60	214	038	101	402	60	319	092	099	425	425	
60	138	050	096	263	440	60	215	030	110	509	60	320	076	098	408	408	
60	139	049	091	262	440	60	216	048	101	327	60	321	073	099	392	392	
60	140	049	091	262	440	60	217	024	098	308	60	322	044	105	439	439	
60	141	055	099	157	333	60	218	036	102	222	60	323	055	107	402	402	
60	142	051	094	276	333	60	219	025	109	330	60	324	039	106	417	417	
60	143	045	093	273	333	60	220	046	095	305	60	325	045	107	392	392	
60	144	054	088	235	333	60	221	022	092	103	60	326	043	079	373	373	
60	145	042	091	262	447	60	222	033	099	333	60	327	056	099	338	338	
60	146	120	097	306	443	60	223	024	106	223	60	328	055	095	366	366	
60	147	052	094	349	446	60	224	053	101	69	60	329	144	102	508	508	
60	148	033	085	275	442	60	225	041	100	66	60	330	124	089	380	380	
60	149	033	094	268	443	60	226	029	099	88	60	331	091	088	353	353	
60	150	102	085	268	443	60	227	047	107	155	60	332	086	086	397	397	
60	151	030	085	268	443	60	228	039	102	47	60	333	075	085	424	424	
60	152	016	083	263	443	60	229	044	097	7	60	334	099	087	424	424	
60	153	031	084	248	443	60	230	033	096	71	60	335	045	086	364	364	
60	154	128	091	174	410	60	231	027	097	17	60	336	043	089	388	388	
60	155	071	097	236	443	60	232	055	101	18	60	337	041	089	374	374	
60	156	034	095	279	443	60	233	052	094	57	60	338	082	094	408	408	
60	157	036	095	269	443	60	234	034	086	84	60	339	055	093	399	399	
60	158	149	103	195	443	60	235	030	097	20	60	340	085	092	459	459	
60	159	087	092	304	443	60	236	022	085	71	60	341	085	091	468	468	
60	160	033	093	284	443	60	237	048	097	87	60	342	125	093	506	506	
60	161	014	093	216	443	60	238	043	094	83	60	343	091	091	484	484	
60	162	106	099	240	443	60	239	037	094	32	60	344	081	089	375	375	
60	163	034	103	289	443	60	240	027	092	55	60	345	070	089	358	358	
60	164	009	101	288	443	60	241	073	082	28	60	346	091	092	408	408	
60	165	015	101	283	443	60	242	018	094	75	60	347	039	090	350	350	
60	166	091	109	322	443	60	243	026	090	69	60	348	036	090	369	369	
60	167	024	096	221	443	60	244	044	090	67	60	349	037	090	383	383	
60	168	010	094	331	443	60	245	030	091	80	60	350	086	097	475	475	
60	169	023	089	272	443	60	246	192	097	64	60	351	094	089	369	369	
60	170	097	101	442	443	60	247	078	087	11	60	352	192	108	593	593	
60	171	064	092	275	443	60	248	080	099	41	60	353	096	095	447	447	
60	172	016	104	366	443	60	249	068	095	49	60	354	088	086	400	400	
60	173	029	108	508	443	60	250	094	096	04	60	355	091	084	355	355	
60	174	048	123	572	443	60	251	076	096	06	60	356	087	085	378	378	
60	175	049	093	555	443	60	252	046	103	448	60	357	110	080	327	327	
60	176	029	093	555	443	60	253	057	107	492	60	358	057	085	327	327	
60	177	043	102	26	443	60	254	039	093	54	60	359	043	093	428	428	
60	178	043	102	26	443	60	255	095	085	75	60	360	074	096	473	473	
60	179	043	102	26	443	60	256	095	085	75	60	361	081	096	422	422	
60	180	043	102	26	443	60	257	095	085	75	60	362	081	096	422	422	

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	363	.083	.093	.237	.469	60	414	.022	.088	.307	.307	60	543	.072	.093	.218	.397
60	364	.086	.089	.196	.392	60	415	.067	.099	.211	.357	60	544	.046	.090	.239	.386
60	365	.080	.089	.188	.440	60	416	.072	.089	.252	.387	60	545	.066	.091	.209	.427
60	366	.101	.094	.200	.498	60	417	.080	.093	.275	.391	60	546	.093	.079	.309	.245
60	367	.046	.090	.245	.409	60	418	.033	.100	.388	.340	60	547	.050	.086	.282	.440
60	368	.033	.090	.245	.370	60	419	.013	.096	.373	.321	60	548	.051	.093	.226	.397
60	369	.033	.099	.227	.347	60	420	.051	.089	.286	.348	60	549	.070	.103	.296	.417
60	370	.073	.093	.225	.390	60	421	.047	.092	.263	.318	60	550	.076	.090	.225	.391
60	371	.078	.093	.246	.383	60	501	.073	.099	.210	.375	60	551	.079	.076	.370	.168
60	372	.079	.090	.222	.412	60	502	.102	.088	.219	.438	60	552	.079	.087	.279	.354
60	373	.079	.090	.246	.383	60	503	.093	.089	.228	.403	60	553	.046	.086	.279	.329
60	374	.079	.090	.222	.412	60	504	.183	.099	.141	.527	60	554	.064	.086	.269	.344
60	375	.106	.094	.274	.463	60	505	.115	.098	.162	.435	60	555	.099	.099	.242	.477
60	376	.054	.092	.253	.411	60	506	.093	.092	.205	.395	60	556	.066	.079	.350	.190
60	377	.035	.088	.255	.342	60	507	.096	.092	.198	.397	60	557	.066	.082	.190	.305
60	378	.033	.090	.222	.412	60	508	.122	.094	.137	.443	60	558	.044	.082	.212	.349
60	379	.033	.090	.222	.412	60	509	.139	.095	.195	.472	60	559	.061	.085	.241	.362
60	380	.181	.101	.222	.412	60	510	.102	.094	.257	.438	60	560	.079	.072	.310	.188
60	381	.081	.097	.266	.401	60	511	.099	.093	.273	.487	60	561	.060	.097	.317	.384
60	382	.088	.099	.266	.401	60	512	.105	.088	.273	.496	60	562	.141	.104	.207	.334
60	383	.078	.088	.266	.365	60	513	.167	.100	.214	.527	60	563	.055	.095	.314	.365
60	384	.073	.088	.255	.376	60	514	.101	.099	.214	.391	60	564	.055	.093	.306	.355
60	385	.077	.091	.222	.393	60	515	.080	.093	.177	.390	60	565	.066	.090	.274	.16
60	386	.068	.097	.250	.390	60	516	.080	.099	.202	.376	60	566	.055	.088	.274	.244
60	387	.068	.097	.250	.390	60	517	.092	.093	.218	.422	60	567	.045	.088	.280	.13
60	388	.029	.094	.354	.332	60	518	.100	.099	.163	.526	60	568	.111	.101	.203	.06
60	389	.031	.091	.296	.333	60	519	.098	.085	.262	.400	60	569	.077	.091	.215	.089
60	390	.125	.099	.174	.444	60	520	.081	.084	.261	.397	60	570	.088	.078	.366	.183
60	391	.112	.091	.119	.413	60	521	.086	.088	.261	.426	60	571	.055	.087	.280	.376
60	392	.064	.089	.222	.364	60	522	.170	.088	.209	.370	60	572	.057	.087	.287	.42
60	393	.064	.089	.222	.364	60	523	.087	.088	.217	.515	60	573	.066	.087	.259	.56
60	394	.062	.088	.222	.364	60	524	.108	.086	.234	.435	60	574	.088	.076	.371	.174
60	395	.046	.086	.222	.364	60	525	.087	.083	.233	.423	60	575	.233	.106	.113	.222
60	396	.076	.088	.261	.384	60	526	.087	.083	.234	.432	60	576	.057	.085	.228	.377
60	397	.020	.082	.333	.312	60	527	.157	.089	.182	.524	60	577	.045	.082	.228	.33
60	398	.029	.087	.333	.322	60	528	.085	.090	.216	.456	60	578	.060	.082	.223	.388
60	399	.029	.084	.119	.399	60	529	.086	.099	.280	.400	60	579	.087	.073	.342	.07
60	400	.107	.088	.169	.424	60	530	.095	.090	.180	.427	60	580	.047	.090	.283	.348
60	401	.075	.094	.211	.381	60	531	.087	.089	.223	.400	60	581	.033	.092	.296	.355
60	402	.059	.086	.269	.355	60	532	.085	.077	.306	.193	60	582	.068	.094	.283	.386
60	403	.067	.088	.222	.393	60	533	.070	.088	.255	.430	60	583	.088	.081	.372	.190
60	404	.053	.089	.244	.366	60	534	.057	.088	.270	.422	60	584	.030	.103	.287	.481
60	405	.067	.095	.215	.386	60	535	.063	.099	.248	.446	60	585	.114	.114	.260	.333
60	406	.012	.091	.378	.353	60	536	.085	.091	.217	.382	60	586	.161	.128	.220	.333
60	407	.019	.098	.333	.413	60	537	.067	.078	.338	.259	60	587	.174	.143	.333	.127
60	408	.002	.055	.222	.292	60	538	.070	.087	.218	.414	60	588	.117	.107	.295	.646
60	409	.107	.099	.000	.450	60	539	.052	.085	.230	.418	60	589	.094	.095	.214	.391
60	410	.064	.094	.233	.317	60	540	.069	.088	.231	.438	60	590	.078	.089	.215	.362
60	411	.050	.086	.290	.317	60	541	.069	.089	.342	.251	60	591	.114	.093	.191	.424
60	412	.021	.091	.272	.304	60	542	.076	.097	.342	.251	60	592	.071	.092	.230	.361
60	413	.048	.096	.270	.336	60						60					

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	
60	810	.078	.096	230	337	70	107	.050	.094	303	.382	70	158	.148	.097	178	.512	
60	811	.070	.107	307	553	70	108	.091	.094	241	.408	70	159	.085	.091	240	.399	
60	812	.098	.106	283	652	70	109	.145	.095	201	.462	70	160	.071	.089	219	.354	
60	813	.074	.104	320	534	70	110	.107	.100	262	.596	70	161	.280	.112	106	.661	
60	814	.079	.102	294	404	70	111	.048	.094	253	.476	70	162	.162	.097	146	.487	
60	815	.059	.095	260	457	70	112	.088	.099	225	.438	70	163	.082	.096	225	.566	
60	816	.086	.096	241	403	70	113	.076	.092	235	.401	70	164	.075	.092	288	.366	
60	817	.068	.093	250	386	70	114	.126	.093	225	.419	70	165	.080	.094	215	.437	
60	818	.079	.099	298	413	70	115	.095	.094	243	.397	70	166	.074	.095	228	.544	
60	819	.007	.115	440	411	70	116	.119	.102	230	.499	70	167	.151	.100	158	.640	
60	820	.041	.133	734	647	70	117	.045	.090	276	.348	70	168	.081	.095	227	.495	
60	821	.153	.111	196	582	70	118	.090	.090	207	.395	70	169	.061	.096	221	.375	
60	822	.116	.101	215	550	70	119	.087	.105	328	.556	70	170	.061	.092	223	.487	
60	823	.080	.088	178	460	70	120	.135	.096	174	.445	70	171	.136	.098	161	.472	
60	824	.141	.099	169	647	70	121	.104	.093	264	.397	70	172	.062	.095	226	.473	
60	825	.021	.120	447	439	70	122	.104	.095	195	.450	70	173	.050	.094	234	.482	
60	826	.187	.106	138	614	70	123	.057	.098	316	.438	70	174	.056	.094	233	.493	
60	827	.093	.095	207	502	70	124	.268	.107	078	.657	70	175	.152	.101	172	.618	
60	828	.021	.119	603	481	70	125	.092	.098	297	.433	70	176	.086	.093	208	.454	
60	829	.040	.089	432	336	70	126	.132	.096	195	.445	70	177	.063	.094	217	.361	
60	830	.174	.111	181	600	70	127	.078	.097	305	.391	70	178	.069	.094	212	.375	
60	831	.086	.093	202	500	70	128	.138	.098	244	.472	70	179	.164	.099	143	.515	
60	832	.105	.094	212	590	70	129	.103	.096	215	.485	70	180	.102	.093	198	.421	
60	901	.088	.115	412	773	70	130	.044	.092	245	.420	70	181	.077	.091	213	.387	
60	902	.107	.118	362	643	70	131	.076	.091	222	.482	70	182	.031	.093	254	.333	
60	903	.078	.123	351	685	70	132	.111	.090	192	.533	70	183	.165	.098	134	.506	
60	904	.108	.133	357	718	70	133	.070	.102	388	.417	70	184	.075	.094	232	.366	
60	905	.070	.098	266	408	70	134	.015	.098	370	.402	70	185	.053	.091	252	.334	
60	906	.086	.096	259	418	70	135	.067	.095	335	.416	70	186	.052	.090	229	.325	
60	907	.028	.097	339	554	70	136	.131	.095	239	.479	70	187	.143	.098	163	.458	
60	908	.069	.105	279	444	70	137	.095	.090	195	.416	70	188	.062	.096	242	.350	
60	909	.098	.097	202	399	70	138	.076	.096	346	.453	70	189	.052	.095	251	.344	
60	910	.149	.102	198	559	70	140	.150	.101	263	.563	70	190	.056	.090	219	.334	
60	911	.043	.122	599	442	70	141	.086	.087	201	.443	70	191	.146	.103	163	.483	
60	912	.011	.115	522	446	70	142	.109	.096	241	.409	70	192	.077	.095	255	.383	
60	913	.072	.099	279	402	70	143	.077	.091	263	.409	70	193	.091	.094	244	.404	
60	914	.091	.096	260	390	70	144	.086	.086	212	.425	70	201	.070	.100	318	.461	
60	915	.063	.102	315	396	70	145	.151	.096	190	.486	70	202	.049	.104	321	.406	
60	916	.068	.097	280	339	70	146	.077	.097	277	.465	70	203	.098	.106	273	.472	
60	917	.103	.096	241	444	70	147	.058	.093	231	.349	70	204	.005	.091	347	.284	
60	918	.063	.096	274	397	70	148	.088	.093	269	.391	70	205	.034	.092	330	.332	
60	919	.067	.096	275	400	70	149	.080	.095	269	.412	70	206	.075	.094	249	.375	
60	920	.067	.096	286	440	70	150	.145	.102	238	.618	70	207	.065	.103	259	.429	
60	921	.066	.101	286	440	70	151	.076	.089	257	.365	70	208	.003	.088	268	.328	
60	922	.121	.104	259	500	70	152	.054	.086	262	.328	70	209	.029	.091	264	.332	
70	101	.117	.102	256	448	70	153	.050	.088	239	.314	70	210	.070	.095	218	.393	
70	102	.096	.097	274	461	70	154	.122	.096	306	.424	70	211	.061	.091	261	.333	
70	103	.049	.097	274	437	70	155	.064	.092	250	.409	70	212	.006	.102	394	.344	
70	104	.078	.094	301	347	70	156	.066	.089	236	.380	70	213	.036	.102	352	.395	
70	105	.132	.098	553	443	70	157	.078	.089	237	.390	70	214	.078	.100	281	.469	
70	106	.104	.097	232	404													

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	215	.056	.092	.232	.351	70	372	.073	.085	.211	.343	70	372	.073	.085	.211	.343
70	216	.005	.087	.287	.351	70	373	.084	.092	.222	.383	70	373	.084	.092	.222	.383
70	217	.034	.088	.232	.351	70	374	.086	.093	.222	.368	70	374	.086	.093	.222	.368
70	218	.078	.091	.229	.351	70	375	.097	.095	.222	.374	70	375	.097	.095	.222	.374
70	219	.061	.101	.291	.351	70	376	.010	.095	.222	.370	70	376	.010	.095	.222	.370
70	220	.002	.090	.254	.351	70	377	.014	.091	.222	.340	70	377	.014	.091	.222	.340
70	221	.027	.090	.298	.351	70	378	.017	.088	.222	.332	70	378	.017	.088	.222	.332
70	222	.070	.093	.229	.351	70	379	.052	.096	.222	.361	70	379	.052	.096	.222	.361
70	223	.063	.090	.229	.351	70	380	.027	.084	.222	.285	70	380	.027	.084	.222	.285
70	224	.047	.099	.287	.351	70	381	.265	.112	.222	.676	70	381	.265	.112	.222	.676
70	225	.004	.094	.337	.351	70	382	.083	.096	.222	.389	70	382	.083	.096	.222	.389
70	226	.031	.095	.310	.351	70	383	.080	.091	.222	.392	70	383	.080	.091	.222	.392
70	227	.059	.100	.326	.351	70	384	.062	.087	.222	.361	70	384	.062	.087	.222	.361
70	228	.048	.093	.351	.351	70	385	.073	.090	.222	.358	70	385	.073	.090	.222	.358
70	229	.059	.093	.351	.351	70	386	.064	.093	.222	.376	70	386	.064	.093	.222	.376
70	230	.033	.090	.351	.351	70	387	.068	.096	.222	.384	70	387	.068	.096	.222	.384
70	231	.037	.093	.351	.351	70	388	.008	.093	.222	.380	70	388	.008	.093	.222	.380
70	232	.084	.093	.351	.351	70	389	.021	.102	.222	.386	70	389	.021	.102	.222	.386
70	233	.038	.093	.351	.351	70	390	.000	.101	.222	.437	70	390	.000	.101	.222	.437
70	234	.030	.095	.351	.351	70	391	.115	.100	.222	.471	70	391	.115	.100	.222	.471
70	235	.030	.095	.351	.351	70	392	.117	.102	.222	.403	70	392	.117	.102	.222	.403
70	236	.030	.095	.351	.351	70	393	.044	.099	.222	.383	70	393	.044	.099	.222	.383
70	237	.030	.095	.351	.351	70	394	.049	.094	.222	.344	70	394	.049	.094	.222	.344
70	238	.055	.091	.351	.351	70	395	.032	.096	.222	.366	70	395	.032	.096	.222	.366
70	239	.033	.087	.351	.351	70	396	.048	.099	.222	.290	70	396	.048	.099	.222	.290
70	240	.036	.089	.351	.351	70	397	.004	.094	.222	.305	70	397	.004	.094	.222	.305
70	241	.040	.088	.351	.351	70	398	.015	.092	.222	.370	70	398	.015	.092	.222	.370
70	242	.033	.089	.351	.351	70	399	.079	.099	.222	.419	70	399	.079	.099	.222	.419
70	243	.040	.089	.351	.351	70	400	.112	.096	.222	.382	70	400	.112	.096	.222	.382
70	244	.065	.091	.351	.351	70	401	.071	.093	.222	.349	70	401	.071	.093	.222	.349
70	245	.040	.090	.351	.351	70	402	.052	.093	.222	.326	70	402	.052	.093	.222	.326
70	246	.277	.106	.351	.351	70	403	.053	.090	.222	.318	70	403	.053	.090	.222	.318
70	247	.084	.099	.351	.351	70	404	.033	.093	.222	.326	70	404	.033	.093	.222	.326
70	248	.080	.099	.351	.351	70	405	.039	.094	.222	.286	70	405	.039	.094	.222	.286
70	249	.080	.099	.351	.351	70	406	.020	.094	.222	.360	70	406	.020	.094	.222	.360
70	250	.123	.102	.351	.351	70	407	.011	.087	.222	.385	70	407	.011	.087	.222	.385
70	251	.096	.102	.351	.351	70	408	.060	.090	.222	.471	70	408	.060	.090	.222	.471
70	252	.075	.098	.351	.351	70	409	.108	.091	.222	.392	70	409	.108	.091	.222	.392
70	253	.058	.095	.351	.351	70	410	.045	.084	.222	.285	70	410	.045	.084	.222	.285
70	254	.079	.098	.351	.351	70	411	.026	.086	.222	.261	70	411	.026	.086	.222	.261
70	255	.053	.083	.351	.351	70	412	.012	.092	.222	.321	70	412	.012	.092	.222	.321
70	256	.044	.099	.351	.351	70	413	.031	.092	.222	.272	70	413	.031	.092	.222	.272
70	257	.044	.104	.351	.351	70	414	.008	.083	.222	.431	70	414	.008	.083	.222	.431
70	258	.032	.109	.351	.351	70	415	.081	.091	.222	.327	70	415	.081	.091	.222	.327
70	259	.079	.096	.351	.351	70	416	.055	.091	.222	.362	70	416	.055	.091	.222	.362
70	260	.083	.094	.351	.351	70	417	.059	.099	.222	.349	70	417	.059	.099	.222	.349
70	261	.080	.098	.351	.351	70	418	.022	.103	.222	.415	70	418	.022	.103	.222	.415
70	262	.079	.096	.351	.351	70	419	.001	.096	.222	.366	70	419	.001	.096	.222	.366
70	263	.080	.098	.351	.351	70	420	.056	.099	.222	.343	70	420	.056	.099	.222	.343
70	264	.118	.102	.351	.351	70	421	.051	.090	.222	.360	70	421	.051	.090	.222	.360

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	501	.087	.088	211	377	70	551	.063	.091	282	375	70	818	.081	.101	382	426
70	502	.107	.103	211	431	70	552	.093	.087	286	433	70	819	.024	.114	344	375
70	503	.106	.089	202	416	70	553	.095	.087	252	451	70	820	.117	.118	333	709
70	504	.189	.099	161	524	70	554	.076	.086	270	417	70	821	.151	.125	186	877
70	505	.093	.091	240	416	70	555	.121	.100	240	438	70	822	.093	.096	237	404
70	506	.081	.090	260	397	70	556	.091	.084	229	377	70	823	.077	.091	224	387
70	507	.080	.089	243	397	70	557	.108	.091	200	439	70	824	.155	.109	169	638
70	508	.200	.095	113	519	70	558	.097	.092	239	428	70	825	.089	.107	315	469
70	509	.137	.105	182	470	70	559	.081	.090	185	395	70	826	.132	.103	183	499
70	510	.108	.093	295	448	70	560	.057	.088	217	371	70	827	.085	.096	218	413
70	511	.089	.092	316	423	70	561	.113	.096	193	446	70	828	.076	.108	468	430
70	512	.087	.094	342	440	70	562	.156	.104	212	497	70	829	.096	.083	179	418
70	513	.193	.101	255	552	70	563	.114	.093	202	414	70	830	.118	.101	214	486
70	514	.087	.093	205	423	70	564	.077	.090	222	377	70	831	.082	.092	257	385
70	515	.088	.091	185	355	70	565	.062	.087	211	370	70	832	.115	.093	205	409
70	516	.092	.087	205	377	70	566	.087	.090	222	375	70	901	.080	.097	257	445
70	517	.096	.092	182	377	70	567	.096	.091	202	382	70	902	.123	.101	222	464
70	518	.199	.097	110	356	70	568	.127	.102	204	461	70	903	.080	.098	282	419
70	519	.087	.096	239	377	70	569	.096	.090	200	435	70	904	.096	.101	283	438
70	520	.075	.095	261	354	70	570	.071	.087	200	339	70	905	.077	.097	272	519
70	521	.093	.095	186	359	70	571	.089	.089	220	400	70	907	.088	.096	223	399
70	522	.094	.087	202	379	70	572	.115	.091	197	426	70	908	.062	.097	287	401
70	523	.217	.101	094	556	70	573	.084	.089	228	398	70	909	.093	.106	263	632
70	524	.100	.083	198	414	70	574	.064	.088	236	371	70	910	.106	.099	226	498
70	525	.080	.084	228	409	70	575	.327	.116	099	720	70	911	.116	.101	197	433
70	526	.071	.085	227	397	70	576	.108	.101	187	459	70	912	.091	.102	255	451
70	527	.185	.091	150	352	70	577	.107	.100	185	448	70	913	.021	.103	429	407
70	528	.102	.087	228	397	70	578	.085	.096	187	418	70	914	.112	.104	240	576
70	529	.103	.091	188	429	70	579	.063	.097	218	408	70	915	.091	.095	266	467
70	530	.103	.094	202	398	70	580	.088	.093	212	455	70	916	.071	.103	360	440
70	531	.094	.088	228	449	70	581	.094	.098	225	505	70	917	.075	.094	230	459
70	532	.076	.087	243	435	70	582	.090	.097	223	490	70	918	.118	.097	234	506
70	533	.089	.094	277	447	70	583	.070	.096	233	480	70	919	.083	.095	244	428
70	534	.098	.095	274	440	70	801	.111	.104	211	630	70	920	.080	.097	255	464
70	535	.100	.096	260	408	70	802	.102	.100	250	449	70	921	.080	.098	202	499
70	536	.099	.102	216	429	70	803	.111	.114	288	564	70	922	.139	.102	182	530
70	537	.084	.094	277	423	70	804	.128	.108	299	540	80	101	.142	.098	225	529
70	538	.093	.091	217	403	70	805	.110	.098	290	432	80	102	.124	.098	190	443
70	539	.102	.091	200	408	70	806	.083	.095	270	419	80	103	.116	.097	247	554
70	540	.076	.092	205	375	70	807	.073	.095	280	419	80	104	.112	.092	217	533
70	541	.070	.092	237	422	70	808	.125	.101	179	527	80	105	.122	.094	215	496
70	542	.298	.117	061	699	70	809	.083	.098	229	438	80	106	.112	.096	243	454
70	543	.108	.097	206	500	70	810	.074	.098	254	439	80	107	.098	.094	273	424
70	544	.102	.095	221	485	70	811	.064	.097	229	373	80	108	.101	.092	234	424
70	545	.079	.092	228	438	70	812	.102	.098	300	403	80	109	.123	.093	201	453
70	546	.055	.090	241	400	70	813	.075	.096	300	368	80	110	.133	.090	161	587
70	547	.085	.095	274	400	70	814	.068	.096	300	372	80	111	.119	.088	176	432
70	548	.131	.096	266	457	70	815	.067	.092	275	352	80	112	.133	.102	220	471
70	549	.094	.094	212	404	70	816	.110	.096	275	413	80	113	.109	.084	168	408
70	550	.102	.091	258	414	70	817	.077	.090	285	362	80	114	.124	.083	125	409

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	
80	115	.103	.088	.255	.393	80	166	.101	.092	.223	.402	80	223	.093	.092	.188	.395	
80	116	.131	.104	.274	.466	80	167	.219	.102	.124	.572	80	224	.062	.103	.308	.430	
80	117	.089	.088	.255	.388	80	168	.115	.088	.198	.427	80	225	.064	.093	.272	.357	
80	118	.096	.087	.227	.382	80	169	.096	.089	.221	.382	80	226	.070	.091	.317	.362	
80	119	.123	.102	.252	.415	80	170	.104	.089	.218	.429	80	227	.110	.093	.242	.416	
80	120	.133	.099	.244	.453	80	171	.200	.098	.149	.552	80	228	.099	.092	.215	.355	
80	121	.108	.099	.207	.486	80	172	.093	.084	.187	.348	80	229	.058	.100	.370	.395	
80	122	.104	.090	.204	.450	80	173	.094	.084	.207	.325	80	230	.066	.094	.218	.362	
80	123	.116	.101	.215	.513	80	174	.099	.085	.228	.332	80	231	.084	.092	.206	.372	
80	124	.160	.101	.194	.469	80	175	.184	.099	.167	.490	80	232	.127	.093	.173	.426	
80	125	.119	.100	.215	.472	80	176	.087	.086	.162	.347	80	233	.062	.097	.279	.426	
80	126	.142	.102	.188	.492	80	177	.105	.084	.165	.373	80	234	.055	.083	.237	.346	
80	127	.105	.090	.213	.459	80	178	.103	.083	.163	.384	80	235	.065	.092	.257	.333	
80	128	.137	.091	.163	.497	80	179	.183	.094	.098	.455	80	236	.080	.080	.186	.353	
80	129	.126	.089	.209	.420	80	180	.086	.090	.237	.367	80	237	.120	.091	.177	.444	
80	130	.112	.089	.219	.406	80	181	.105	.090	.217	.399	80	238	.057	.093	.247	.466	
80	131	.116	.087	.204	.419	80	182	.045	.089	.255	.332	80	239	.063	.090	.258	.420	
80	132	.132	.088	.264	.418	80	183	.206	.100	.162	.513	80	240	.071	.089	.237	.403	
80	133	.111	.093	.171	.408	80	184	.108	.095	.208	.442	80	241	.130	.094	.149	.421	
80	134	.092	.092	.217	.379	80	185	.089	.091	.221	.430	80	242	.051	.094	.241	.359	
80	135	.083	.092	.204	.385	80	186	.079	.090	.232	.413	80	243	.089	.085	.248	.420	
80	136	.115	.093	.194	.412	80	187	.181	.090	.162	.542	80	244	.089	.085	.179	.420	
80	137	.091	.086	.257	.409	80	188	.085	.084	.246	.363	80	245	.087	.102	.222	.325	
80	138	.090	.089	.235	.456	80	189	.079	.083	.261	.358	80	246	.011	.108	.131	.458	
80	140	.223	.099	.159	.591	80	190	.073	.076	.223	.321	80	247	.115	.091	.183	.350	
80	141	.088	.091	.290	.419	80	191	.158	.093	.214	.468	80	248	.113	.092	.207	.431	
80	142	.103	.090	.189	.462	80	192	.074	.092	.224	.403	80	249	.112	.100	.303	.420	
80	143	.097	.092	.261	.436	80	193	.074	.090	.226	.384	80	250	.160	.107	.268	.395	
80	144	.080	.090	.302	.407	80	201	.087	.099	.239	.387	80	251	.121	.107	.347	.433	
80	145	.216	.101	.184	.551	80	202	.074	.104	.445	.406	80	252	.085	.109	.385	.411	
80	146	.106	.082	.162	.375	80	203	.102	.102	.369	.436	80	253	.057	.115	.375	.543	
80	147	.079	.080	.192	.343	80	204	.055	.097	.376	.471	80	254	.099	.117	.494	.481	
80	148	.082	.081	.184	.350	80	205	.058	.094	.298	.452	80	255	.065	.094	.330	.379	
80	149	.100	.089	.213	.435	80	206	.095	.095	.211	.489	80	256	.066	.107	.665	.445	
80	150	.214	.090	.091	.572	80	207	.089	.097	.244	.421	80	257	.060	.110	.555	.353	
80	151	.109	.088	.245	.454	80	208	.064	.100	.225	.396	80	258	.090	.095	.220	.381	
80	152	.097	.087	.249	.433	80	209	.061	.095	.249	.374	80	259	.077	.108	.307	.442	
80	153	.089	.087	.250	.399	80	210	.099	.097	.215	.423	80	260	.146	.094	.167	.351	
80	154	.196	.097	.164	.524	80	211	.055	.091	.316	.465	80	261	.118	.089	.176	.431	
80	155	.085	.087	.199	.418	80	212	.058	.091	.313	.390	80	262	.126	.100	.204	.459	
80	156	.079	.086	.198	.417	80	213	.063	.086	.257	.353	80	263	.114	.097	.196	.448	
80	157	.077	.086	.196	.416	80	214	.066	.083	.188	.368	80	264	.153	.103	.213	.460	
80	158	.210	.094	.104	.546	80	215	.098	.096	.215	.462	80	265	.101	.103	.358	.455	
80	159	.104	.089	.199	.429	80	216	.047	.102	.314	.380	80	266	.063	.106	.318	.448	
80	160	.077	.087	.207	.379	80	217	.054	.094	.268	.369	80	267	.038	.117	.459	.386	
80	161	.162	.091	.148	.529	80	218	.100	.097	.201	.420	80	268	.084	.117	.309	.470	
80	162	.186	.098	.138	.520	80	219	.096	.088	.198	.381	80	269	.067	.111	.432	.418	
80	163	.107	.093	.221	.411	80	220	.050	.096	.244	.494	80	270	.064	.113	.432	.418	
80	164	.103	.104	.213	.412	80	221	.054	.089	.237	.380	80	271	.068	.071	.361	.508	
80	165	.081	.094	.248	.377	80	222	.103	.092	.217	.453	80	272	.085	.103	.188	.259	
																		.430

APPENDIX A -- PRESSURE DATA

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	3328	.080	.093	.429	.403	80	380	.012	.100	.367	.395	80	509	.133	.087	.155	.497
80	3329	.164	.091	.138	.457	80	381	.215	.097	.132	.558	80	510	.102	.088	.155	.449
80	3330	.163	.084	.102	.440	80	382	.136	.099	.229	.468	80	511	.108	.087	.133	.445
80	3331	.101	.083	.168	.440	80	383	.109	.086	.162	.378	80	512	.109	.087	.134	.430
80	3332	.098	.092	.185	.437	80	384	.063	.085	.254	.380	80	513	.216	.097	.066	.570
80	3333	.078	.096	.283	.433	80	385	.086	.086	.179	.377	80	514	.119	.089	.191	.446
80	3334	.067	.101	.284	.438	80	386	.078	.090	.223	.391	80	515	.093	.087	.232	.411
80	3335	.013	.100	.398	.430	80	387	.079	.095	.411	.381	80	516	.091	.084	.177	.367
80	3336	.007	.107	.408	.433	80	388	.002	.093	.223	.350	80	517	.094	.086	.238	.397
80	3337	.018	.106	.429	.439	80	389	.009	.093	.411	.335	80	518	.208	.097	.131	.549
80	3338	.069	.102	.427	.471	80	390	.001	.097	.426	.293	80	519	.115	.094	.214	.437
80	3339	.035	.092	.344	.410	80	391	.153	.099	.218	.476	80	520	.111	.094	.215	.453
80	3340	.106	.085	.210	.432	80	392	.131	.086	.152	.497	80	521	.090	.094	.225	.419
80	3341	.119	.087	.194	.437	80	393	.055	.091	.200	.376	80	522	.092	.084	.186	.390
80	3342	.152	.088	.172	.434	80	394	.053	.090	.223	.322	80	523	.203	.103	.148	.566
80	3343	.097	.086	.200	.444	80	395	.034	.092	.117	.304	80	524	.113	.088	.151	.407
80	3344	.083	.088	.220	.433	80	396	.039	.096	.336	.370	80	525	.112	.088	.148	.418
80	3345	.063	.093	.302	.465	80	397	.020	.089	.443	.276	80	526	.106	.088	.166	.416
80	3346	.055	.098	.325	.444	80	398	.005	.099	.337	.311	80	527	.219	.098	.076	.556
80	3347	.024	.099	.472	.438	80	399	.108	.092	.199	.395	80	528	.084	.088	.191	.413
80	3348	.020	.113	.391	.437	80	400	.133	.096	.186	.435	80	529	.103	.087	.210	.430
80	3349	.003	.110	.385	.439	80	401	.116	.096	.240	.446	80	530	.100	.088	.231	.442
80	3350	.022	.107	.447	.433	80	402	.065	.092	.232	.355	80	531	.114	.090	.171	.390
80	3351	.125	.079	.149	.434	80	403	.063	.086	.221	.371	80	532	.112	.090	.183	.427
80	3352	.220	.096	.081	.438	80	404	.054	.089	.257	.348	80	533	.128	.097	.190	.557
80	3353	.135	.094	.191	.447	80	405	.059	.094	.279	.323	80	534	.131	.097	.189	.550
80	3354	.105	.095	.206	.445	80	406	.004	.090	.279	.268	80	535	.085	.094	.269	.491
80	3355	.103	.093	.257	.436	80	407	.002	.096	.371	.340	80	536	.098	.084	.195	.439
80	3356	.092	.096	.238	.433	80	408	.055	.093	.398	.359	80	537	.088	.092	.267	.485
80	3357	.091	.100	.232	.403	80	409	.127	.098	.211	.471	80	538	.113	.090	.183	.460
80	3358	.005	.097	.370	.429	80	410	.069	.091	.255	.380	80	539	.132	.090	.182	.482
80	3359	.010	.100	.394	.416	80	411	.052	.085	.216	.344	80	540	.115	.090	.213	.463
80	3361	.041	.101	.341	.433	80	412	.035	.088	.279	.324	80	541	.077	.087	.199	.400
80	3362	.120	.095	.217	.435	80	413	.054	.090	.300	.349	80	542	.216	.085	.077	.566
80	3363	.091	.085	.284	.433	80	414	.018	.086	.333	.297	80	543	.104	.099	.216	.399
80	3364	.096	.086	.181	.428	80	415	.101	.084	.146	.413	80	544	.109	.092	.224	.421
80	3365	.087	.089	.193	.422	80	416	.074	.081	.191	.322	80	545	.115	.092	.219	.421
80	3366	.083	.093	.212	.417	80	417	.098	.090	.179	.388	80	546	.110	.091	.207	.405
80	3367	.001	.092	.399	.418	80	418	.046	.092	.246	.338	80	547	.125	.093	.149	.532
80	3368	.026	.098	.484	.419	80	419	.022	.091	.268	.335	80	548	.104	.089	.195	.432
80	3369	.013	.099	.441	.420	80	420	.046	.095	.239	.369	80	549	.073	.088	.225	.408
80	3370	.032	.096	.384	.421	80	421	.046	.090	.339	.388	80	550	.090	.087	.200	.414
80	3371	.105	.096	.232	.440	80	501	.065	.084	.183	.364	80	551	.081	.089	.212	.400
80	3372	.098	.086	.192	.440	80	502	.121	.088	.183	.473	80	552	.125	.095	.246	.519
80	3373	.098	.088	.218	.440	80	503	.091	.088	.183	.370	80	553	.131	.094	.238	.534
80	3374	.102	.095	.278	.444	80	504	.207	.101	.108	.551	80	554	.111	.092	.239	.513
80	3375	.018	.093	.332	.444	80	505	.118	.087	.197	.415	80	555	.107	.101	.306	.418
80	3376	.001	.100	.423	.444	80	506	.116	.086	.204	.408	80	556	.085	.090	.236	.453
80	3377	.010	.101	.507	.433	80	507	.109	.086	.218	.405	80	557	.097	.097	.225	.431
80	3378	.016	.102	.434	.438	80	508	.195	.091	.121	.525	80	558	.102	.098	.226	.463

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	559	.119	.098	.223	.457	80	826	.161	.105	.251	.551	90	123	.131	.101	.187	.579
80	556	.111	.098	.224	.449	80	827	.119	.090	.153	.553	90	124	.314	.106	.001	.688
80	556	.094	.090	.209	.385	80	828	.142	.114	.233	.568	90	125	.153	.101	.161	.514
80	559	.123	.102	.231	.436	80	829	.144	.086	.082	.432	90	126	.185	.103	.142	.581
80	559	.100	.089	.197	.379	80	830	.159	.096	.134	.565	90	127	.128	.094	.191	.416
80	554	.082	.089	.233	.350	80	831	.106	.089	.194	.438	90	128	.153	.096	.173	.440
80	554	.113	.089	.206	.390	80	832	.157	.094	.158	.646	90	129	.226	.104	.112	.645
80	556	.125	.096	.188	.520	80	901	.086	.097	.252	.413	90	130	.123	.097	.216	.530
80	556	.132	.097	.190	.521	80	902	.140	.102	.175	.486	90	131	.147	.097	.164	.549
80	556	.088	.100	.289	.411	80	903	.100	.096	.214	.400	90	132	.175	.097	.186	.512
80	556	.080	.092	.217	.475	80	904	.111	.100	.260	.446	90	133	.213	.101	.190	.598
80	557	.078	.090	.211	.455	80	905	.085	.102	.232	.473	90	134	.096	.093	.269	.452
80	557	.114	.096	.273	.476	80	907	.106	.103	.218	.424	90	135	.115	.093	.247	.462
80	557	.142	.096	.238	.506	80	908	.102	.105	.214	.536	90	136	.142	.093	.230	.481
80	557	.119	.095	.273	.497	80	909	.153	.122	.286	.803	90	137	.104	.089	.178	.427
80	557	.114	.094	.281	.495	80	910	.144	.110	.221	.512	90	138	.134	.091	.167	.433
80	557	.209	.103	.130	.525	80	911	.152	.112	.215	.626	90	140	.101	.088	.187	.393
80	557	.088	.092	.182	.448	80	912	.137	.120	.203	.757	90	141	.106	.088	.170	.484
80	557	.098	.092	.180	.458	80	913	.079	.101	.285	.444	90	142	.120	.092	.187	.403
80	557	.083	.088	.189	.424	80	914	.179	.106	.187	.532	90	143	.142	.091	.149	.498
80	557	.085	.090	.191	.428	80	915	.125	.093	.194	.446	90	144	.104	.088	.167	.486
80	558	.088	.089	.239	.388	80	916	.124	.115	.485	.593	90	145	.104	.088	.175	.447
80	558	.117	.091	.253	.422	80	917	.098	.095	.230	.416	90	146	.137	.092	.176	.529
80	558	.124	.090	.232	.411	80	918	.168	.103	.188	.532	90	147	.119	.088	.154	.438
80	558	.119	.088	.224	.396	80	919	.126	.103	.201	.470	90	148	.109	.088	.174	.428
80	801	.192	.133	.317	.627	80	920	.135	.104	.190	.533	90	149	.131	.089	.155	.420
80	802	.139	.112	.251	.612	80	921	.150	.115	.362	.612	90	150	.113	.088	.180	.388
80	803	.101	.114	.377	.767	80	922	.219	.113	.307	.618	90	151	.142	.087	.159	.421
80	804	.154	.108	.195	.721	80	101	.259	.106	.090	.666	90	152	.142	.086	.157	.442
80	805	.142	.099	.194	.537	80	102	.159	.093	.168	.559	90	153	.117	.084	.191	.420
80	806	.117	.094	.231	.531	80	103	.155	.100	.170	.555	90	154	.086	.082	.203	.400
80	807	.103	.090	.238	.463	80	104	.158	.098	.145	.591	90	155	.108	.091	.217	.410
80	808	.176	.096	.182	.556	80	105	.184	.100	.128	.677	90	156	.117	.091	.207	.418
80	809	.103	.094	.275	.431	80	106	.223	.110	.136	.854	90	157	.106	.090	.222	.405
80	810	.097	.094	.266	.450	80	107	.121	.099	.194	.548	90	158	.126	.089	.196	.421
80	811	.080	.097	.233	.434	80	108	.129	.098	.182	.553	90	159	.152	.088	.126	.536
80	812	.130	.096	.186	.462	80	109	.166	.098	.169	.609	90	160	.117	.085	.177	.384
80	813	.097	.095	.206	.439	80	110	.245	.106	.086	.633	90	161	.301	.106	.048	.630
80	814	.085	.096	.268	.399	80	111	.146	.098	.176	.484	90	162	.089	.082	.192	.353
80	815	.097	.095	.219	.452	80	112	.167	.101	.128	.696	90	163	.146	.088	.138	.417
80	816	.140	.102	.236	.489	80	113	.152	.099	.172	.562	90	164	.121	.099	.200	.411
80	817	.098	.094	.224	.424	80	114	.187	.099	.123	.712	90	165	.111	.087	.192	.415
80	818	.139	.118	.322	.617	80	115	.214	.103	.152	.691	90	166	.146	.089	.140	.426
80	819	.070	.119	.437	.648	80	116	.155	.097	.146	.495	90	167	.140	.086	.169	.422
80	820	.192	.153	.201	.821	80	117	.102	.093	.214	.391	90	168	.151	.091	.137	.519
80	821	.177	.117	.128	.837	80	118	.125	.092	.184	.422	90	169	.138	.088	.169	.521
80	822	.122	.094	.162	.476	80	119	.146	.097	.146	.444	90	170	.142	.091	.150	.520
80	823	.168	.098	.304	.411	80	120	.189	.093	.130	.723	90	171	.114	.084	.201	.430
80	824	.239	.121	.212	.674	80	121	.207	.104	.150	.581	90	172	.118	.083	.149	.379
80	825	.142	.106	.237	.503	80	122	.129	.088	.231	.478	90	173	.113	.083	.140	.354

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	174	.102	.082	150	348	90	231	.104	.089	226	437	90	333	.027	.114	575	367
90	175	.101	.081	143	355	90	232	.167	.090	154	497	90	334	.033	.116	523	375
90	176	.109	.083	165	393	90	233	.077	.096	328	396	90	335	.013	.119	552	386
90	177	.154	.086	145	451	90	234	.111	.091	199	465	90	336	.025	.117	528	410
90	178	.147	.085	145	412	90	235	.053	.092	277	399	90	337	.135	.085	140	463
90	179	.098	.081	163	356	90	236	.092	.080	172	405	90	338	.128	.086	143	453
90	180	.105	.090	251	383	90	237	.153	.092	163	502	90	339	.134	.085	124	475
90	181	.154	.094	166	556	90	238	.144	.096	221	489	90	340	.155	.089	122	520
90	182	.087	.091	291	348	90	239	.144	.090	292	409	90	341	.131	.098	252	456
90	183	.132	.087	165	412	90	240	.082	.090	281	418	90	342	.097	100	287	465
90	184	.143	.086	178	476	90	241	.148	.088	121	419	90	343	.059	103	376	455
90	185	.120	.083	183	401	90	242	.038	.091	307	325	90	344	.016	108	470	337
90	186	.108	.081	185	387	90	243	.052	.091	240	393	90	345	.040	114	527	366
90	187	.105	.080	181	373	90	244	.099	.092	196	438	90	346	.051	114	529	347
90	188	.110	.091	199	399	90	245	.099	.097	212	408	90	347	.015	110	528	317
90	189	.110	.092	220	404	90	246	.347	.117	038	679	90	348	.138	.085	127	388
90	190	.099	.088	208	377	90	247	.137	.087	191	430	90	349	.347	.114	045	707
90	191	.093	.089	218	359	90	248	.124	.109	279	475	90	350	.154	.092	215	505
90	192	.096	.089	227	397	90	249	.122	.097	217	482	90	351	.162	.083	094	460
90	193	.103	.088	219	400	90	250	.173	.104	263	550	90	352	.141	.090	158	464
90	201	.061	.112	567	442	90	251	.116	.104	291	466	90	353	.121	.091	176	436
90	202	.066	.110	424	409	90	252	.061	.108	397	460	90	354	.100	.092	181	408
90	203	.124	.105	352	431	90	253	.015	.123	532	398	90	355	.085	.097	293	461
90	204	.020	.112	441	359	90	254	.037	.147	839	513	90	356	.010	102	349	369
90	205	.041	.104	284	371	90	255	.011	.123	586	380	90	357	.033	.115	693	310
90	206	.111	.099	239	429	90	256	.037	.128	565	405	90	358	.136	.091	235	483
90	207	.177	.104	226	499	90	257	.054	.122	663	395	90	359	.159	.091	123	485
90	208	.062	.117	560	366	90	258	.071	.115	401	522	90	360	.129	.086	173	482
90	209	.026	.104	340	364	90	259	.083	.113	426	450	90	361	.105	.088	206	469
90	210	.103	.101	251	437	90	260	.160	.099	188	483	90	362	.091	.089	241	480
90	211	.186	.098	185	526	90	261	.142	.085	182	436	90	363	.093	.093	214	473
90	212	.025	.113	429	539	90	262	.129	.099	194	481	90	364	.011	.099	358	305
90	213	.059	.102	356	477	90	263	.128	.096	194	509	90	365	.039	108	436	315
90	214	.131	.097	292	549	90	264	.177	.102	163	563	90	366	.038	108	434	270
90	215	.135	.105	161	569	90	265	.111	.100	245	516	90	367	.124	.088	147	390
90	216	.133	.111	510	476	90	266	.064	.105	304	465	90	368	.127	.083	201	448
90	217	.051	.102	344	449	90	267	.066	.116	466	558	90	369	.109	.085	210	487
90	218	.131	.098	184	506	90	268	.031	.132	564	403	90	370	.100	.088	236	431
90	219	.195	.097	155	524	90	269	.060	.131	669	365	90	371	.106	.092	365	446
90	220	.022	.100	460	397	90	270	.020	.126	504	396	90	372	.055	.093	267	405
90	221	.047	.092	323	353	90	271	.049	.088	272	278	90	373	.006	.095	342	425
90	222	.127	.091	218	407	90	272	.044	.125	527	417	90	374	.018	100	434	398
90	223	.191	.103	120	581	90	273	.018	.114	499	428	90	375	.010	105	444	376
90	224	.123	.116	349	580	90	274	.174	.096	129	477	90	376	.344	.106	056	740
90	225	.055	.116	283	518	90	275	.14	.083	161	445	90	377	.148	.096	188	461
90	226	.090	.097	255	523	90	276	.166	.088	166	470	90	378	.139	.095	194	458
90	227	.156	.097	159	512	90	277	.133	.089	173	420	90	379	.154	.087	132	487
90	228	.215	.098	175	568	90	278	.105	.092	235	419	90	380	.120	.082	169	451
90	229	.118	.105	247	436	90	279	.066	.096	321	374	90	381	.095	.085	189	422
90	230	.055	.092	271	394	90	280	.013	.104	425	339	90	382	.081	.085	203	381

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	388	.090	.088	2035	4055	90	517	.120	.094	237	.427	90	567	.133	.088	206	.455
90	389	.030	.096	326	4067	90	518	.142	.092	183	.431	90	568	.106	.098	230	.415
90	390	.006	.101	408	3311	90	519	.141	.090	159	.472	90	569	.099	.084	202	.423
90	391	.157	.096	172	478	90	520	.142	.090	154	.467	90	570	.138	.084	166	.479
90	392	.112	.088	236	417	90	521	.115	.089	189	.388	90	571	.107	.094	285	.475
90	393	.142	.089	209	454	90	522	.126	.094	205	.412	90	572	.144	.097	186	.528
90	394	.094	.089	237	482	90	523	.132	.086	151	.408	90	573	.127	.093	180	.484
90	395	.064	.089	278	449	90	524	.145	.089	155	.486	90	574	.159	.094	156	.513
90	396	.053	.094	306	468	90	525	.155	.092	146	.500	90	575	.326	.113	061	.686
90	397	.067	.094	329	431	90	526	.141	.090	144	.478	90	576	.105	.092	194	.407
90	398	.006	.102	349	350	90	527	.150	.086	126	.471	90	577	.110	.092	174	.412
90	399	.104	.093	298	433	90	528	.117	.084	166	.380	90	578	.101	.088	189	.403
90	400	.110	.094	319	431	90	529	.130	.088	136	.413	90	579	.131	.092	171	.435
90	401	.123	.093	18	422	90	530	.134	.086	221	.487	90	580	.101	.091	241	.395
90	402	.142	.094	45	502	90	531	.127	.094	175	.484	90	581	.106	.096	243	.415
90	403	.100	.092	233	399	90	532	.147	.093	169	.482	90	582	.138	.094	214	.441
90	404	.074	.094	41	401	90	533	.145	.089	162	.443	90	583	.160	.094	215	.446
90	405	.071	.096	249	403	90	534	.142	.089	167	.433	90	801	.194	.125	192	.834
90	406	.088	.099	260	412	90	535	.106	.088	229	.366	90	802	.139	.112	276	.585
90	407	.039	.095	286	444	90	536	.115	.089	161	.434	90	803	.071	.117	301	.552
90	408	.047	.099	304	444	90	537	.131	.089	204	.399	90	804	.201	.115	165	.674
90	409	.104	.091	240	444	90	538	.128	.097	286	.530	90	805	.217	.115	144	.743
90	410	.133	.090	177	455	90	539	.139	.098	279	.505	90	806	.146	.097	190	.533
90	411	.098	.085	212	424	90	540	.130	.097	282	.509	90	807	.128	.102	152	.511
90	412	.072	.086	217	401	90	541	.124	.096	284	.535	90	808	.207	.109	107	.622
90	413	.060	.085	247	393	90	542	.332	.102	019	.681	90	809	.092	.103	215	.430
90	414	.086	.088	162	422	90	543	.125	.089	167	.407	90	810	.091	.104	280	.413
90	415	.125	.084	169	391	90	544	.118	.090	194	.416	90	811	.072	.100	292	.499
90	416	.140	.087	173	420	90	545	.136	.089	186	.417	90	812	.138	.102	217	.566
90	417	.207	.095	246	430	90	546	.155	.088	151	.418	90	813	.103	.099	235	.519
90	418	.087	.089	238	430	90	547	.154	.098	137	.613	90	814	.108	.098	262	.515
90	419	.063	.089	212	331	90	548	.117	.092	188	.414	90	815	.084	.098	234	.400
90	420	.060	.091	231	341	90	549	.101	.089	192	.386	90	816	.137	.103	208	.439
90	421	.116	.100	192	474	90	550	.116	.090	176	.401	90	817	.088	.098	241	.418
90	501	.117	.097	251	420	90	551	.132	.094	175	.438	90	818	.084	.152	572	.628
90	502	.142	.094	176	423	90	552	.146	.102	181	.501	90	819	.071	.144	547	.724
90	503	.123	.087	182	423	90	553	.147	.101	192	.529	90	820	.401	.254	135	.055
90	504	.140	.087	170	411	90	554	.132	.099	197	.498	90	821	.353	.188	132	.316
90	505	.147	.092	221	487	90	555	.121	.099	222	.452	90	822	.174	.107	140	.519
90	506	.146	.089	220	487	90	556	.133	.098	205	.484	90	823	.150	.107	223	.620
90	507	.136	.089	222	444	90	557	.120	.091	185	.426	90	824	.306	.140	134	.172
90	508	.129	.085	202	405	90	558	.106	.093	200	.417	90	825	.289	.151	145	.799
90	509	.156	.093	155	405	90	559	.134	.095	204	.460	90	826	.292	.145	122	.827
90	510	.131	.089	164	431	90	560	.153	.092	180	.463	90	827	.154	.101	154	.615
90	511	.148	.089	165	480	90	561	.111	.091	162	.475	90	828	.167	.127	325	.596
90	512	.143	.091	217	501	90	562	.138	.100	207	.467	90	829	.251	.115	019	.708
90	513	.149	.087	152	471	90	563	.112	.090	149	.484	90	830	.238	.124	121	.860
90	514	.139	.095	189	428	90	564	.090	.091	189	.440	90	831	.143	.109	204	.498
90	515	.125	.095	235	439	90	565	.162	.094	196	.480	90	832	.199	.113	162	.580
90	516	.116	.095	236	419	90	566	.134	.087	211	.446	90	901	.107	.093	208	.414

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	
90	902	179	100	185	510	100	131	187	101	127	626	100	182	079	089	259	383	
90	903	134	094	246	453	100	132	167	096	135	571	100	183	238	097	144	593	
90	904	131	097	291	505	100	133	145	101	169	470	100	184	179	096	147	619	
90	905	109	105	298	477	100	134	130	098	153	439	100	185	141	088	165	482	
90	906	138	105	267	492	100	135	112	096	158	410	100	186	124	087	182	427	
90	907	138	109	270	609	100	136	109	095	152	415	100	187	190	092	136	517	
90	908	138	109	221	609	100	137	130	087	165	474	100	188	124	091	198	426	
90	909	211	140	221	049	100	138	186	094	108	686	100	189	122	091	196	433	
90	910	171	111	180	564	100	140	234	097	117	679	100	190	111	083	182	367	
90	911	242	138	181	047	100	141	124	093	207	418	100	191	175	095	148	489	
90	912	236	145	214	028	100	142	132	089	160	473	100	192	101	091	188	403	
90	913	096	127	617	521	100	143	191	111	184	805	100	193	112	090	171	419	
90	914	260	142	184	967	100	144	118	092	211	425	100	201	008	137	774	375	
90	915	161	105	197	557	100	145	240	113	137	928	100	202	010	137	709	367	
90	916	089	147	695	587	100	146	196	106	103	682	100	203	041	125	419	415	
90	917	110	095	184	479	100	147	117	085	167	408	100	204	059	134	821	321	
90	918	205	105	148	584	100	148	112	084	165	396	100	205	046	127	594	334	
90	919	121	098	172	488	100	149	193	093	120	577	100	206	010	122	581	391	
90	920	138	098	150	488	100	150	252	105	073	763	100	207	074	112	387	395	
90	921	170	109	164	677	100	151	202	110	132	662	100	208	057	134	654	388	
90	922	262	108	073	658	100	152	177	102	198	543	100	209	045	121	550	402	
100	101	230	118	142	330	100	153	139	096	156	469	100	210	022	116	460	415	
100	102	207	105	124	834	100	154	172	098	137	527	100	211	085	105	348	414	
100	103	211	118	191	905	100	155	116	083	225	445	100	212	014	113	457	464	
100	104	181	114	235	951	100	156	117	083	212	451	100	213	019	107	421	542	
100	105	165	111	169	813	100	157	110	082	219	436	100	214	078	104	370	485	
100	106	154	104	191	570	100	158	285	101	010	701	100	215	107	111	321	510	
100	107	146	101	251	548	100	159	202	108	153	883	100	216	011	115	644	339	
100	108	127	099	280	689	100	160	115	094	265	462	100	217	006	107	429	333	
100	109	130	098	270	536	100	161	370	108	023	793	100	218	073	102	360	402	
100	110	232	119	158	673	100	162	173	097	220	534	100	219	120	095	206	517	
100	111	218	115	177	226	100	163	200	102	126	683	100	220	011	110	435	375	
100	112	208	113	208	651	100	164	124	100	171	417	100	221	004	106	362	394	
100	113	177	114	155	399	100	165	113	088	163	429	100	222	066	102	341	505	
100	114	161	105	191	349	100	166	204	104	120	721	100	223	111	099	288	477	
100	115	147	106	243	713	100	167	283	107	041	749	100	224	039	108	346	442	
100	116	161	109	169	589	100	168	212	110	137	710	100	225	072	103	334	541	
100	117	133	103	227	492	100	169	193	113	180	690	100	226	091	101	268	483	
100	118	125	101	228	484	100	170	181	101	152	603	100	227	136	102	205	663	
100	119	190	112	206	774	100	171	219	094	073	557	100	228	154	104	159	566	
100	120	192	108	182	716	100	172	127	085	171	457	100	229	043	101	261	442	
100	121	124	094	177	515	100	173	114	086	192	452	100	230	040	099	300	418	
100	122	144	097	170	507	100	174	101	085	214	425	100	231	096	095	287	483	
100	123	208	107	096	613	100	175	171	088	159	511	100	232	150	097	204	694	
100	124	400	124	029	838	100	176	106	090	168	425	100	233	044	094	291	392	
100	125	198	107	116	397	100	177	195	102	121	602	100	234	013	089	339	290	
100	126	198	108	127	550	100	178	196	103	117	625	100	235	027	097	415	352	
100	127	141	093	168	473	100	179	174	093	114	505	100	236	070	082	185	356	
100	128	158	092	149	503	100	180	109	090	250	434	100	237	118	091	148	437	
100	129	189	100	110	666	100	181	203	106	192	653	100	238	091	091	218	446	
100	130	195	100	105	632	100												

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	239	.060	.088	.228	.397	100	344	.156	.094	.134	.445	100	396	.103	.091	.197	.442
100	240	.070	.086	.234	.396	100	345	.132	.095	.250	.428	100	397	.134	.093	.154	.484
100	241	.168	.088	.239	.415	100	346	.109	.098	.241	.408	100	398	.049	.103	.415	.425
100	242	.042	.090	.237	.336	100	347	.097	.108	.407	.427	100	399	.116	.091	.168	.456
100	243	.030	.092	.235	.411	100	348	.010	.115	.620	.413	100	400	.122	.092	.144	.467
100	244	.049	.092	.284	.440	100	349	.051	.124	.560	.378	100	401	.139	.096	.166	.501
100	245	.112	.098	.191	.405	100	350	.055	.131	.748	.415	100	402	.171	.096	.107	.505
100	301	.426	.120	.082	.827	100	351	.153	.082	.106	.373	100	403	.123	.083	.143	.445
100	302	.147	.096	.201	.484	100	352	.419	.117	.011	.777	100	404	.103	.083	.158	.427
100	303	.156	.101	.224	.499	100	353	.165	.092	.180	.498	100	405	.110	.084	.144	.416
100	304	.142	.101	.237	.511	100	354	.194	.092	.196	.496	100	406	.158	.088	.145	.502
100	305	.143	.104	.233	.474	100	355	.152	.091	.127	.461	100	407	.084	.087	.180	.394
100	306	.122	.107	.276	.474	100	355	.136	.091	.132	.432	100	408	.064	.093	.247	.427
100	307	.099	.113	.311	.449	100	357	.132	.092	.143	.420	100	409	.113	.087	.169	.384
100	308	.024	.125	.535	.476	100	358	.160	.099	.209	.484	100	410	.169	.089	.115	.447
100	309	.030	.142	.679	.423	100	359	.060	.099	.280	.413	100	411	.118	.087	.201	.437
100	310	.040	.123	.556	.316	100	361	.040	.115	.484	.415	100	412	.098	.086	.227	.414
100	311	.023	.147	.629	.451	100	362	.152	.090	.179	.449	100	413	.096	.086	.208	.415
100	312	.012	.142	.666	.476	100	363	.193	.090	.048	.519	100	414	.144	.092	.172	.424
100	313	.017	.133	.639	.446	100	364	.147	.096	.192	.485	100	415	.131	.085	.138	.393
100	314	.049	.141	.622	.477	100	365	.128	.096	.204	.419	100	416	.185	.093	.138	.512
100	315	.169	.097	.185	.453	100	366	.125	.098	.253	.457	100	417	.130	.089	.162	.420
100	316	.165	.095	.172	.514	100	367	.162	.103	.173	.487	100	418	.111	.089	.178	.406
100	317	.160	.098	.173	.514	100	368	.053	.109	.342	.342	100	419	.085	.087	.192	.355
100	318	.147	.102	.247	.494	100	369	.018	.109	.462	.300	100	420	.057	.091	.252	.369
100	319	.143	.103	.221	.502	100	370	.031	.115	.517	.323	100	421	.055	.092	.267	.429
100	320	.123	.106	.259	.606	100	372	.134	.093	.174	.427	100	501	.120	.093	.196	.438
100	321	.103	.109	.386	.445	100	373	.139	.087	.200	.428	100	502	.146	.094	.149	.432
100	322	.029	.116	.451	.403	100	374	.126	.088	.222	.419	100	503	.138	.088	.182	.427
100	323	.018	.122	.440	.359	100	375	.131	.091	.278	.458	100	504	.230	.097	.082	.602
100	324	.024	.129	.594	.400	100	376	.173	.095	.214	.501	100	505	.157	.093	.207	.515
100	325	.002	.136	.709	.395	100	377	.101	.093	.234	.578	100	506	.160	.090	.198	.458
100	326	.004	.060	.239	.134	100	378	.044	.096	.273	.417	100	507	.151	.090	.200	.448
100	327	.003	.138	.535	.331	100	379	.004	.106	.431	.331	100	508	.215	.093	.203	.495
100	328	.074	.136	.734	.331	100	380	.013	.113	.487	.361	100	509	.156	.092	.117	.451
100	329	.178	.092	.144	.451	100	381	.415	.112	.012	.760	100	510	.138	.086	.165	.446
100	330	.147	.085	.114	.424	100	382	.161	.099	.155	.521	100	511	.157	.086	.145	.467
100	331	.198	.093	.107	.510	100	383	.144	.089	.152	.425	100	512	.152	.085	.150	.433
100	332	.157	.097	.263	.511	100	384	.192	.094	.185	.501	100	513	.226	.088	.072	.545
100	333	.135	.098	.240	.452	100	385	.140	.090	.172	.448	100	514	.150	.090	.133	.466
100	334	.113	.102	.229	.400	100	386	.121	.092	.160	.450	100	515	.134	.090	.163	.483
100	335	.090	.115	.448	.451	100	387	.121	.093	.165	.449	100	516	.120	.089	.159	.409
100	336	.012	.115	.379	.380	100	388	.164	.098	.124	.496	100	517	.134	.090	.144	.471
100	337	.054	.121	.575	.290	100	389	.077	.101	.289	.426	100	518	.220	.093	.068	.581
100	338	.072	.131	.712	.345	100	390	.023	.106	.447	.362	100	519	.146	.087	.207	.457
100	339	.021	.136	.580	.400	100	391	.169	.099	.152	.535	100	520	.147	.087	.210	.430
100	340	.147	.093	.138	.429	100	392	.124	.087	.167	.445	100	521	.125	.086	.216	.436
100	341	.136	.092	.146	.414	100	393	.188	.092	.140	.512	100	522	.138	.091	.140	.442
100	342	.143	.092	.143	.440	100	394	.132	.091	.151	.507	100	523	.204	.090	.160	.545
100	343	.202	.098	.091	.527	100	395	.107	.088	.185	.438	100	524	.154	.093	.162	.457

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	177	.093	.093	120	.475	100	575	.369	.105	.013	.782	100	911	.331	.125	.049	.917
100	157	.093	.093	157	.474	100	576	.111	.087	.231	.432	100	912	.346	.137	.070	.895
100	122	.095	.111	111	.557	100	577	.113	.087	.234	.419	100	913	.088	.132	.544	.467
100	133	.093	.230	473		100	578	.110	.084	.204	.405	100	914	.262	.135	.153	.871
100	141	.089	.160	467		100	579	.205	.090	.154	.518	100	915	.184	.108	.166	.662
100	148	.087	.135	421		100	580	.106	.087	.158	.434	100	916	.053	.138	.783	.488
100	210	.089	.146	491		100	581	.099	.092	.197	.426	100	917	.138	.106	.178	.528
100	155	.091	.075	560		100	582	.145	.084	.145	.425	100	918	.209	.115	.107	.704
100	146	.088	.162	468		100	583	.231	.088	.068	.523	100	919	.131	.102	.167	.483
100	143	.087	.163	459		100	801	.177	.112	.280	.557	100	920	.143	.101	.161	.512
100	120	.088	.155	396		100	802	.142	.116	.302	.711	100	921	.183	.106	.161	.605
100	189	.090	.110	485		100	803	.110	.143	.398	.827	100	922	.238	.109	.130	.679
100	149	.089	.137	416		100	804	.215	.116	.228	.697	110	101	.277	.115	.064	.897
100	147	.086	.119	434		100	805	.286	.116	.053	.266	110	102	.234	.117	.126	.641
100	41	.087	.123	440		100	806	.176	.097	.186	.585	110	103	.271	.117	.120	.967
100	41	.090	.111	462		100	807	.173	.100	.152	.433	110	104	.236	.124	.170	.029
100	36	.107	.041	690		100	808	.191	.100	.130	.605	110	105	.194	.113	.253	.756
100	126	.092	.198	515		100	809	.094	.096	.230	.398	110	106	.173	.110	.162	.636
100	117	.092	.190	498		100	810	.093	.097	.246	.391	110	107	.161	.105	.252	.519
100	143	.094	.196	531		100	811	.112	.097	.247	.399	110	108	.143	.103	.198	.575
100	212	.096	.107	618		100	812	.117	.093	.234	.413	110	109	.132	.101	.190	.504
100	159	.090	.140	506		100	813	.127	.092	.191	.430	110	110	.244	.108	.098	.809
100	110	.086	.194	389		100	814	.127	.104	.191	.432	110	111	.245	.105	.115	.682
100	178	.089	.201	433		100	815	.114	.103	.349	.438	110	112	.225	.122	.154	.767
100	121	.086	.181	398		100	816	.117	.104	.397	.449	110	113	.224	.113	.192	.771
100	151	.092	.129	476		100	817	.101	.101	.324	.477	110	114	.182	.107	.247	.822
100	150	.092	.245	483		100	818	.084	.152	.597	.706	110	115	.173	.107	.217	.685
100	144	.090	.240	495		100	819	.038	.151	.583	.662	110	116	.141	.115	.235	.727
100	120	.087	.190	463		100	820	.493	.287	.073	.369	110	117	.156	.100	.207	.550
100	176	.093	.228	512		100	821	.478	.181	.000	.1	110	118	.140	.096	.195	.545
100	126	.089	.135	435		100	822	.221	.104	.094	.662	110	119	.214	.117	.160	.621
100	109	.090	.166	424		100	823	.206	.108	.129	.595	110	120	.223	.102	.122	.612
100	147	.091	.134	454		100	824	.304	.144	.119	.092	110	121	.138	.094	.191	.305
100	213	.093	.052	567		100	825	.428	.165	.101	.017	110	122	.160	.098	.158	.533
100	110	.088	.170	429		100	826	.433	.166	.169	.1	110	123	.240	.103	.166	.817
100	136	.086	.174	483		100	827	.214	.110	.197	.584	110	124	.109	.107	.166	.638
100	110	.088	.170	416		100	828	.112	.133	.444	.552	110	125	.224	.103	.172	.692
100	110	.088	.170	432		100	829	.386	.116	.124	.834	110	126	.224	.105	.178	.604
100	213	.093	.166	604		100	830	.370	.144	.055	.938	110	127	.132	.098	.198	.450
100	148	.088	.158	436		100	831	.189	.109	.153	.776	110	128	.130	.096	.145	.472
100	141	.089	.180	451		100	832	.202	.109	.163	.999	110	129	.225	.106	.109	.764
100	124	.086	.179	448		100	901	.147	.114	.230	.706	110	130	.241	.106	.105	.744
100	106	.086	.187	391		100	902	.181	.115	.152	.725	110	131	.229	.105	.092	.676
100	199	.089	.099	497		100	903	.167	.110	.152	.72	110	132	.207	.100	.139	.655
100	111	.096	.257	432		100	904	.186	.116	.169	.848	110	133	.183	.092	.104	.505
100	140	.096	.213	491		100	905	.143	.101	.243	.525	110	134	.163	.091	.173	.483
100	134	.095	.203	463		100	906	.163	.098	.184	.500	110	135	.132	.088	.170	.432
100	227	.100	.158	586		100	908	.158	.102	.204	.588	110	136	.121	.086	.180	.413
						100	909	.309	.144	.118	.066	110	137	.130	.085	.188	.409
						100	910	.162	.097	.155	.510	110	138	.229	.099	.142	.641

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	140	.315	.106	.055	.706	110	190	.129	.085	.137	.443	110	302	.155	.091	.230	.532
110	141	.128	.085	.139	.396	110	191	.198	.098	.124	.544	110	303	.171	.103	.166	.518
110	142	.131	.094	.134	.432	110	192	.104	.089	.166	.381	110	304	.154	.095	.248	.496
110	143	.223	.101	.062	.909	110	193	.118	.090	.165	.393	110	305	.167	.097	.303	.478
110	144	.127	.085	.150	.395	110	201	.044	.147	.641	.366	110	306	.165	.098	.256	.480
110	145	.307	.108	.010	842	110	202	.031	.151	.709	.436	110	307	.171	.106	.238	.505
110	146	.227	.108	.185	.647	110	203	.019	.133	.685	.456	110	308	.102	.114	.472	.471
110	147	.137	.092	.167	.479	110	204	.083	.146	.824	.385	110	309	.043	.130	.622	.561
110	148	.127	.092	.181	.493	110	205	.080	.139	.740	.342	110	310	.014	.119	.570	.438
110	149	.260	.102	.010	.686	110	206	.024	.129	.720	.374	110	311	.111	.161	.702	.583
110	150	.339	.120	.060	.846	110	207	.070	.118	.430	.492	110	312	.032	.163	.868	.514
110	151	.254	.103	.056	.849	110	208	.086	.145	.571	.370	110	313	.008	.157	.745	.485
110	152	.224	.096	.111	.551	110	209	.090	.142	.593	.336	110	314	.027	.152	.693	.508
110	153	.170	.090	.159	.332	110	210	.019	.128	.569	.406	110	315	.137	.085	.180	.445
110	154	.208	.093	.093	.333	110	211	.087	.110	.371	.419	110	316	.175	.091	.198	.587
110	155	.120	.086	.201	.378	110	212	.046	.134	.859	.449	110	317	.172	.164	.166	.529
110	156	.123	.086	.187	.669	110	213	.034	.137	.688	.503	110	318	.152	.100	.168	.484
110	157	.118	.085	.187	.358	110	214	.031	.122	.487	.477	110	319	.160	.102	.174	.571
110	158	.357	.118	.031	.794	110	215	.112	.118	.421	.525	110	320	.154	.103	.270	.554
110	159	.256	.105	.125	.226	110	216	.026	.117	.615	.328	110	321	.163	.105	.251	.630
110	160	.087	.087	.186	.420	110	217	.041	.119	.533	.333	110	322	.088	.109	.488	.466
110	161	.086	.090	.185	.398	110	218	.041	.111	.457	.412	110	323	.033	.113	.523	.359
110	162	.192	.093	.150	.511	110	219	.130	.101	.259	.492	110	324	.003	.121	.489	.326
110	163	.268	.118	.084	.751	110	220	.011	.111	.389	.356	110	325	.015	.137	.574	.339
110	164	.110	.092	.223	.545	110	221	.043	.115	.547	.297	110	326	.054	.095	.338	.181
110	165	.121	.093	.201	.407	110	222	.045	.107	.499	.379	110	327	.035	.144	.659	.433
110	166	.284	.126	.062	.823	110	223	.129	.105	.335	.517	110	328	.104	.156	.820	.511
110	167	.383	.139	.065	.018	110	224	.024	.121	.452	.512	110	329	.137	.081	.160	.414
110	168	.291	.134	.106	.984	110	225	.048	.122	.406	.664	110	330	.148	.088	.176	.461
110	169	.244	.108	.097	.638	110	226	.066	.122	.465	.547	110	331	.216	.097	.143	.555
110	170	.241	.113	.122	.698	110	227	.117	.118	.315	.600	110	332	.177	.095	.150	.500
110	171	.276	.107	.065	.660	110	228	.174	.110	.234	.615	110	333	.153	.096	.168	.481
110	172	.147	.089	.190	.442	110	229	.043	.096	.449	.396	110	334	.146	.100	.274	.493
110	173	.127	.087	.159	.406	110	230	.028	.097	.317	.348	110	335	.141	.111	.484	.561
110	174	.115	.086	.173	.379	110	231	.094	.089	.235	.379	110	336	.031	.111	.424	.379
110	175	.200	.093	.105	.500	110	232	.153	.092	.199	.366	110	337	.029	.113	.478	.294
110	176	.112	.088	.238	.382	110	233	.044	.097	.282	.368	110	338	.077	.131	.649	.270
110	177	.250	.112	.116	.683	110	234	.002	.083	.284	.299	110	339	.050	.145	.667	.329
110	178	.254	.113	.097	.700	110	235	.014	.097	.360	.356	110	340	.159	.093	.175	.493
110	179	.200	.094	.171	.494	110	236	.066	.081	.242	.303	110	341	.141	.092	.193	.481
110	180	.120	.096	.181	.447	110	237	.120	.093	.226	.439	110	342	.152	.093	.182	.471
110	181	.267	.117	.084	.756	110	238	.097	.094	.231	.483	110	343	.224	.101	.133	.623
110	182	.097	.096	.229	.410	110	239	.058	.093	.280	.357	110	344	.173	.095	.142	.472
110	183	.311	.111	.056	.696	110	240	.062	.091	.253	.363	110	345	.148	.096	.149	.444
110	184	.228	.111	.146	.783	110	241	.152	.080	.111	.487	110	346	.137	.100	.313	.501
110	185	.156	.093	.160	.482	110	242	.051	.096	.265	.404	110	347	.140	.113	.375	.467
110	186	.139	.091	.192	.451	110	243	.022	.092	.279	.373	110	348	.015	.105	.430	.376
110	187	.216	.099	.170	.558	110	244	.024	.089	.263	.366	110	349	.049	.116	.493	.293
110	188	.133	.093	.158	.479	110	245	.109	.094	.221	.574	110	350	.089	.139	.608	.373
110	189	.138	.092	.150	.483	110	301	.122	.091	.188	.558	110	351	.146	.073	.119	.382

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	335	.124	.084	.166	.403	110	404	.124	.091	.216	.489	110	533	.178	.093	.105	.507
110	335	.146	.097	.166	.494	110	405	.129	.093	.241	.510	110	534	.160	.092	.137	.484
110	335	.211	.088	.088	.482	110	406	.178	.099	.244	.481	110	535	.125	.091	.185	.470
110	335	.168	.097	.157	.549	110	407	.097	.092	.224	.401	110	536	.120	.086	.201	.401
110	335	.155	.097	.160	.507	110	408	.069	.109	.229	.408	110	537	.266	.100	.065	.642
110	335	.158	.099	.180	.523	110	409	.126	.088	.227	.425	110	538	.145	.091	.132	.487
110	335	.194	.108	.162	.566	110	410	.195	.091	.177	.495	110	539	.148	.089	.128	.490
110	335	.094	.103	.421	.409	110	411	.133	.089	.178	.439	110	540	.170	.092	.124	.511
110	336	.014	.115	.522	.357	110	412	.103	.091	.219	.398	110	541	.255	.100	.096	.621
110	336	.152	.098	.168	.500	110	413	.091	.097	.445	.404	110	542	.093	.082	.215	.365
110	336	.208	.094	.153	.571	110	414	.173	.096	.202	.480	110	543	.138	.092	.158	.459
110	336	.169	.081	.103	.472	110	415	.136	.089	.188	.444	110	544	.120	.092	.186	.423
110	336	.149	.081	.120	.443	110	416	.190	.083	.154	.466	110	545	.159	.092	.153	.463
110	336	.155	.084	.125	.433	110	417	.140	.088	.157	.444	110	546	.323	.105	.035	.665
110	336	.195	.090	.151	.513	110	418	.125	.091	.215	.439	110	547	.194	.093	.115	.581
110	336	.092	.089	.266	.428	110	419	.087	.096	.306	.404	110	548	.112	.084	.164	.465
110	336	.013	.093	.375	.288	110	420	.059	.093	.271	.431	110	549	.107	.092	.281	.390
110	337	.014	.104	.506	.313	110	421	.078	.096	.239	.486	110	550	.131	.083	.159	.491
110	337	.151	.081	.409	.434	110	501	.129	.096	.164	.469	110	551	.275	.099	.028	.684
110	337	.144	.083	.155	.466	110	502	.130	.090	.168	.415	110	552	.166	.092	.137	.470
110	337	.134	.084	.144	.429	110	503	.133	.087	.157	.404	110	553	.162	.093	.138	.472
110	337	.150	.088	.186	.456	110	504	.228	.098	.095	.544	110	554	.168	.092	.129	.443
110	337	.206	.096	.190	.527	110	505	.147	.091	.152	.443	110	555	.112	.086	.184	.417
110	337	.129	.098	.215	.517	110	506	.159	.091	.147	.474	110	556	.264	.101	.065	.586
110	337	.074	.096	.390	.398	110	507	.153	.091	.153	.460	110	557	.136	.094	.191	.542
110	338	.035	.105	.473	.408	110	508	.222	.102	.087	.537	110	558	.118	.094	.210	.515
110	338	.031	.107	.368	.366	110	509	.127	.087	.177	.402	110	559	.149	.095	.165	.539
110	338	.128	.095	.178	.473	110	510	.131	.088	.246	.442	110	560	.313	.106	.040	.718
110	338	.153	.092	.137	.473	110	511	.153	.088	.158	.489	110	561	.132	.088	.156	.440
110	338	.159	.093	.193	.485	110	512	.146	.087	.156	.464	110	562	.117	.085	.180	.431
110	338	.207	.096	.099	.590	110	513	.231	.094	.104	.622	110	563	.116	.086	.157	.414
110	338	.160	.094	.208	.502	110	514	.144	.089	.130	.463	110	564	.128	.087	.159	.437
110	338	.142	.097	.254	.488	110	515	.137	.090	.140	.447	110	565	.304	.099	.012	.648
110	338	.148	.100	.195	.480	110	516	.128	.092	.181	.464	110	566	.173	.097	.163	.569
110	338	.197	.105	.225	.564	110	517	.133	.089	.133	.476	110	567	.158	.098	.167	.548
110	338	.106	.093	.208	.500	110	518	.228	.095	.048	.557	110	568	.132	.087	.162	.427
110	339	.043	.098	.309	.407	110	519	.151	.085	.162	.424	110	569	.126	.094	.222	.483
110	339	.149	.091	.145	.493	110	520	.159	.085	.159	.432	110	570	.279	.103	.076	.691
110	339	.136	.084	.168	.482	110	521	.130	.086	.148	.413	110	571	.148	.088	.233	.497
110	339	.217	.089	.106	.557	110	522	.148	.092	.175	.488	110	572	.138	.090	.248	.478
110	339	.157	.094	.161	.517	110	523	.220	.092	.080	.509	110	573	.158	.089	.232	.496
110	339	.127	.093	.171	.453	110	524	.150	.089	.151	.453	110	574	.318	.101	.103	.703
110	339	.121	.098	.265	.464	110	525	.175	.090	.140	.486	110	575	.103	.084	.195	.397
110	339	.161	.100	.183	.511	110	526	.171	.091	.151	.454	110	576	.132	.096	.205	.461
110	339	.067	.100	.377	.387	110	527	.249	.095	.101	.594	110	577	.111	.094	.206	.428
110	399	.128	.085	.184	.430	110	528	.127	.086	.164	.429	110	578	.125	.092	.191	.439
110	400	.133	.087	.182	.442	110	529	.138	.092	.253	.430	110	579	.286	.104	.081	.636
110	401	.144	.096	.211	.461	110	530	.145	.086	.168	.474	110	580	.138	.090	.169	.454
110	402	.190	.092	.163	.530	110	531	.145	.097	.169	.487	110	581	.121	.092	.186	.456
110	403	.140	.091	.217	.534	110	532	.294	.106	.039	.641	110	582	.154	.093	.138	.498

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	583	.319	.102	.013	-.675	110	919	.138	.098	.223	-.479	120	148	.116	.089	.159	-.404
110	801	.210	.109	.195	-.667	110	920	.179	.101	.139	-.578	120	149	.238	.098	.134	-.830
110	802	.252	.121	.185	-.770	110	921	.186	.101	.138	-.525	120	150	.320	.109	.063	-.856
110	803	.180	.147	.292	-.917	110	922	.236	.105	.107	-.613	120	151	.214	.099	.112	-.716
110	804	.225	.105	.156	-.616	120	101	.239	.109	.105	-.785	120	152	.191	.091	.122	-.621
110	805	.250	.110	.092	-.686	120	102	.199	.094	.159	-.646	120	153	.157	.085	.119	-.448
110	806	.208	.095	.100	-.569	120	103	.238	.112	.129	-.883	120	154	.207	.092	.102	-.534
110	807	.188	.097	.166	-.564	120	104	.209	.109	.231	-.687	120	155	.107	.095	.218	-.416
110	808	.198	.101	.178	-.554	120	105	.180	.109	.177	-.660	120	156	.108	.095	.208	-.425
110	809	.129	.095	.232	-.495	120	106	.159	.100	.195	-.755	120	157	.108	.094	.214	-.428
110	810	.155	.100	.194	-.546	120	107	.160	.101	.211	-.666	120	158	.340	.120	.040	-.761
110	811	.134	.099	.262	-.463	120	108	.139	.099	.228	-.788	120	159	.229	.101	.094	-.661
110	812	.134	.096	.217	-.460	120	109	.131	.097	.224	-.682	120	160	.106	.085	.192	-.377
110	813	.134	.096	.219	-.439	120	110	.206	.095	.120	-.614	120	161	.082	.094	.216	-.356
110	814	.155	.098	.205	-.478	120	111	.219	.096	.084	-.609	120	162	.181	.091	.143	-.462
110	815	.135	.097	.206	-.501	120	112	.203	.111	.199	-.382	120	163	.232	.108	.095	-.714
110	816	.142	.097	.205	-.484	120	113	.204	.102	.132	-.641	120	164	.110	.090	.165	-.474
110	817	.127	.094	.191	-.495	120	114	.177	.099	.132	-.657	120	165	.104	.089	.209	-.421
110	818	.187	.160	.509	-.800	120	115	.153	.093	.225	-.657	120	166	.250	.089	.084	-.797
110	819	.021	.151	.584	-.508	120	116	.130	.107	.250	-.483	120	167	.336	.123	.014	-.821
110	820	.439	.205	.009	-.749	120	117	.147	.094	.185	-.500	120	168	.237	.113	.118	-.712
110	821	.355	.170	.050	-.770	120	118	.128	.092	.211	-.495	120	169	.235	.114	.153	-.773
110	822	.292	.099	.166	-.563	120	119	.191	.110	.193	-.612	120	170	.214	.103	.151	-.634
110	823	.211	.104	.128	-.604	120	120	.198	.093	.164	-.518	120	171	.244	.100	.145	-.614
110	824	.274	.128	.081	-.029	120	121	.125	.093	.204	-.435	120	172	.131	.089	.159	-.514
110	825	.406	.135	.018	-.871	120	122	.147	.089	.194	-.465	120	173	.106	.089	.220	-.486
110	826	.348	.139	.177	-.899	120	123	.212	.098	.126	-.573	120	174	.102	.088	.222	-.461
110	827	.210	.108	.115	-.919	120	124	.101	.100	.255	-.418	120	175	.169	.095	.161	-.560
110	828	.099	.133	.472	-.540	120	125	.192	.097	.139	-.524	120	176	.100	.100	.237	-.438
110	829	.411	.115	.140	-.797	120	126	.189	.098	.089	-.549	120	177	.235	.126	.134	-.788
110	830	.360	.152	.051	-.947	120	127	.129	.101	.206	-.454	120	178	.250	.131	.127	-.828
110	831	.189	.106	.127	-.573	120	128	.123	.100	.226	-.454	120	179	.166	.107	.192	-.534
110	832	.228	.112	.123	-.714	120	129	.194	.101	.135	-.645	120	180	.103	.082	.166	-.357
110	901	.152	.116	.186	-.655	120	130	.217	.102	.098	-.684	120	181	.243	.105	.151	-.626
110	902	.194	.119	.164	-.691	120	131	.201	.100	.105	-.682	120	182	.094	.081	.153	-.366
110	903	.201	.114	.189	-.810	120	132	.191	.092	.080	-.399	120	183	.285	.105	.096	-.783
110	904	.275	.127	.111	-.722	120	133	.169	.094	.119	-.601	120	184	.216	.097	.137	-.594
110	905	.148	.105	.268	-.509	120	134	.159	.093	.104	-.584	120	185	.134	.083	.198	-.468
110	907	.161	.102	.207	-.518	120	135	.125	.090	.138	-.556	120	186	.123	.083	.204	-.431
110	908	.231	.109	.127	-.649	120	136	.115	.088	.155	-.506	120	187	.181	.090	.183	-.532
110	909	.759	.153	.125	-.344	120	137	.119	.084	.183	-.404	120	188	.117	.087	.161	-.443
110	910	.133	.097	.144	-.483	120	138	.203	.096	.130	-.722	120	189	.118	.087	.189	-.455
110	911	.270	.122	.161	-.721	120	140	.293	.100	.078	-.773	120	190	.119	.079	.136	-.420
110	912	.389	.139	.084	-.933	120	141	.115	.083	.165	-.469	120	191	.161	.094	.158	-.502
110	913	.071	.133	.588	-.537	120	142	.127	.098	.193	-.441	120	192	.096	.087	.181	-.444
110	914	.298	.135	.108	-.860	120	143	.187	.095	.150	-.702	120	193	.102	.087	.178	-.441
110	915	.193	.100	.121	-.520	120	144	.119	.084	.159	-.483	120	201	.025	.116	.529	-.388
110	916	.159	.138	.387	-.603	120	145	.279	.102	.074	-.807	120	202	.045	.125	.503	-.415
110	917	.154	.098	.166	-.592	120	146	.200	.100	.130	-.575	120	203	.073	.117	.333	-.457
110	918	.212	.108	.132	-.630	120	147	.119	.089	.141	-.405	120	204	.026	.125	.527	-.324

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1200	305	.121	.121	.514	.327	1200	310	.023	.122	.497	.368	1200	361	.093	.160	.763	.382
1200	206	.118	.118	.555	.346	1200	311	.023	.125	.497	.399	1200	362	.158	.094	.188	.451
1200	007	.110	.110	.505	.408	1200	312	.033	.146	.723	.453	1200	363	.230	.103	.098	.751
1200	008	.129	.129	.555	.441	1200	313	.047	.125	.471	.417	1200	364	.182	.098	.220	.552
1200	009	.113	.113	.555	.331	1200	314	.055	.146	.508	.522	1200	365	.160	.102	.208	.641
1200	110	.109	.109	.426	.378	1200	315	.149	.092	.213	.510	1200	366	.154	.109	.223	.646
1200	111	.108	.108	.410	.402	1200	316	.173	.091	.231	.480	1200	367	.171	.126	.301	.610
1200	112	.128	.128	.563	.404	1200	317	.215	.107	.240	.586	1200	368	.022	.140	.626	.493
1200	113	.112	.112	.445	.344	1200	318	.166	.106	.216	.636	1200	369	.061	.144	.754	.331
1200	114	.104	.104	.389	.379	1200	319	.164	.110	.153	.618	1200	370	.070	.143	.719	.434
1200	115	.106	.106	.278	.506	1200	320	.172	.112	.261	.611	1200	372	.154	.091	.278	.332
1200	116	.125	.125	.583	.417	1200	321	.208	.122	.269	.769	1200	373	.153	.092	.193	.432
1200	117	.106	.106	.434	.381	1200	322	.063	.140	.607	.633	1200	374	.145	.096	.183	.444
1200	118	.098	.098	.555	.434	1200	323	.002	.152	.779	.570	1200	375	.162	.104	.188	.535
1200	119	.101	.101	.224	.568	1200	324	.012	.147	.641	.616	1200	376	.222	.118	.253	.634
1200	220	.033	.033	.533	.392	1200	325	.093	.141	.674	.477	1200	377	.115	.118	.393	.631
1200	221	.097	.097	.466	.285	1200	326	.009	.132	.605	.415	1200	378	.022	.127	.638	.463
1200	222	.055	.055	.273	.391	1200	327	.048	.124	.537	.443	1200	379	.032	.139	.785	.632
1200	223	.097	.097	.202	.495	1200	328	.034	.122	.570	.333	1200	380	.041	.131	.697	.632
1200	224	.004	.004	.595	.574	1200	329	.144	.086	.233	.526	1200	381	.131	.091	.212	.441
1200	225	.168	.168	.506	.516	1200	330	.157	.090	.162	.475	1200	382	.149	.090	.130	.788
1200	226	.099	.099	.401	.513	1200	331	.254	.103	.103	.666	1200	383	.166	.097	.182	.433
1200	227	.148	.148	.232	.503	1200	332	.186	.104	.186	.530	1200	384	.224	.100	.174	.643
1200	228	.099	.099	.177	.556	1200	333	.148	.106	.283	.527	1200	385	.174	.097	.191	.644
1200	229	.018	.018	.609	.380	1200	334	.109	.119	.410	.488	1200	386	.159	.104	.204	.589
1200	330	.101	.101	.335	.389	1200	335	.067	.156	.608	.499	1200	387	.165	.111	.238	.666
1200	331	.077	.077	.351	.389	1200	336	.077	.171	.615	.400	1200	388	.212	.130	.330	.669
1200	332	.140	.095	.230	.467	1200	337	.105	.163	.763	.401	1200	389	.063	.129	.709	.522
1200	333	.031	.109	.385	.386	1200	338	.076	.145	.694	.336	1200	390	.026	.137	.909	.444
1200	334	.028	.102	.373	.329	1200	339	.010	.143	.569	.515	1200	391	.142	.088	.144	.533
1200	335	.012	.108	.355	.373	1200	340	.161	.092	.130	.552	1200	392	.141	.090	.168	.545
1200	336	.065	.086	.238	.392	1200	341	.140	.092	.160	.508	1200	393	.235	.100	.124	.574
1200	337	.118	.096	.313	.479	1200	342	.155	.094	.154	.479	1200	394	.166	.098	.198	.531
1200	338	.104	.104	.223	.501	1200	343	.179	.107	.066	.697	1200	395	.136	.099	.192	.537
1200	339	.103	.103	.422	.411	1200	344	.179	.107	.198	.581	1200	396	.135	.106	.284	.520
1200	440	.041	.097	.285	.378	1200	345	.139	.109	.306	.540	1200	397	.159	.120	.371	.638
1200	441	.039	.098	.095	.397	1200	346	.096	.121	.441	.549	1200	398	.033	.116	.511	.632
1200	442	.022	.091	.292	.297	1200	347	.052	.159	.777	.571	1200	399	.122	.087	.196	.638
1200	443	.001	.105	.460	.335	1200	348	.078	.157	.774	.307	1200	400	.132	.088	.210	.633
1200	444	.013	.099	.338	.319	1200	349	.112	.149	.879	.279	1200	401	.141	.092	.214	.568
1200	445	.110	.092	.182	.458	1200	350	.082	.129	.643	.313	1200	402	.192	.094	.181	.522
1200	501	.126	.094	.204	.488	1200	351	.153	.076	.200	.466	1200	403	.137	.090	.165	.472
1200	502	.148	.099	.275	.469	1200	352	.125	.088	.252	.537	1200	404	.121	.090	.151	.407
1200	503	.106	.106	.146	.634	1200	353	.194	.093	.190	.463	1200	405	.138	.092	.202	.456
1200	504	.167	.101	.207	.551	1200	354	.233	.102	.185	.591	1200	406	.192	.107	.478	.459
1200	505	.171	.105	.177	.573	1200	355	.178	.101	.197	.557	1200	407	.107	.101	.303	.456
1200	506	.119	.110	.234	.693	1200	356	.161	.104	.185	.531	1200	408	.054	.098	.430	.447
1200	507	.125	.125	.366	.669	1200	357	.156	.110	.221	.585	1200	409	.119	.091	.222	.414
1200	508	.071	.145	.790	.432	1200	358	.175	.129	.322	.656	1200	410	.190	.094	.149	.439
1200	509	.013	.156	.722	.436	1200	359	.013	.145	.549	.493	1200	411	.127	.088	.196	.442

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	412	.116	.088	.161	.433
120	413	.124	.088	.164	.433
120	414	.197	.102	.237	.553
120	415	.141	.086	.137	.414
120	416	.195	.094	.151	.534
120	417	.136	.088	.129	.433
120	418	.144	.089	.133	.458
120	419	.109	.088	.172	.424
120	420	.052	.095	.362	.399
120	421	.064	.106	.518	.388
120	501	.122	.096	.234	.443
120	502	.136	.093	.160	.445
120	503	.132	.085	.127	.450
120	504	.133	.096	.087	.541
120	505	.142	.086	.158	.523
120	506	.149	.087	.134	.450
120	507	.151	.087	.131	.448
120	508	.186	.092	.156	.504
120	509	.127	.089	.154	.374
120	510	.122	.084	.145	.444
120	511	.136	.083	.119	.453
120	512	.144	.084	.137	.457
120	513	.203	.091	.089	.547
120	514	.140	.092	.221	.545
120	515	.115	.091	.265	.475
120	516	.123	.093	.210	.440
120	517	.125	.091	.257	.496
120	518	.199	.098	.202	.596
120	519	.145	.086	.152	.440
120	520	.146	.087	.128	.449
120	521	.121	.086	.166	.417
120	522	.146	.095	.182	.460
120	523	.183	.092	.126	.491
120	524	.141	.092	.139	.466
120	525	.158	.093	.157	.470
120	526	.164	.094	.145	.466
120	527	.211	.099	.111	.542
120	528	.111	.083	.154	.382
120	529	.138	.087	.127	.481
120	530	.125	.087	.187	.395
120	531	.139	.090	.202	.439
120	532	.140	.090	.200	.453
120	533	.157	.083	.115	.418
120	534	.146	.083	.135	.411
120	535	.108	.081	.158	.354
120	536	.121	.087	.167	.389
120	537	.162	.081	.167	.356
120	538	.125	.083	.176	.426
120	539	.140	.087	.143	.462
120	540	.155	.091	.164	.483

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	441	.093	.088	.199	.454
120	442	.093	.083	.193	.440
120	443	.116	.085	.173	.434
120	444	.108	.084	.183	.448
120	445	.153	.089	.156	.470
120	446	.153	.088	.179	.456
120	447	.171	.102	.138	.755
120	448	.096	.091	.211	.396
120	449	.100	.066	.168	.456
120	450	.110	.091	.204	.396
120	451	.091	.093	.217	.388
120	452	.143	.094	.211	.538
120	453	.149	.095	.219	.482
120	454	.150	.095	.213	.471
120	455	.104	.086	.194	.431
120	456	.087	.089	.212	.419
120	457	.112	.085	.195	.381
120	458	.100	.087	.202	.368
120	459	.142	.089	.167	.438
120	460	.146	.093	.173	.438
120	461	.192	.083	.165	.333
120	462	.102	.084	.176	.440
120	463	.096	.082	.168	.435
120	464	.101	.085	.185	.335
120	465	.126	.088	.151	.336
120	466	.158	.094	.185	.335
120	467	.159	.097	.149	.319
120	468	.118	.087	.176	.445
120	469	.103	.089	.238	.415
120	470	.094	.087	.235	.391
120	471	.123	.094	.179	.502
120	472	.135	.099	.193	.376
120	473	.144	.097	.170	.388
120	474	.137	.098	.183	.397
120	475	.080	.084	.205	.397
120	476	.104	.082	.191	.333
120	477	.097	.081	.175	.378
120	478	.106	.080	.167	.333
120	479	.094	.082	.185	.369
120	480	.107	.086	.162	.438
120	481	.105	.089	.176	.438
120	482	.143	.091	.151	.470
120	483	.125	.088	.146	.439
120	484	.250	.151	.184	.470
120	485	.250	.141	.333	.986
120	486	.149	.151	.657	.986
120	487	.224	.113	.241	.728
120	488	.238	.110	.332	.624
120	489	.250	.104	.220	.618
120	490	.165	.102	.205	.518

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	808	.195	.110	.124	.604
120	809	.123	.112	.397	.464
120	810	.178	.119	.394	.581
120	811	.116	.111	.533	.493
120	812	.109	.107	.389	.469
120	813	.119	.110	.288	.503
120	814	.183	.108	.289	.551
120	815	.130	.112	.359	.564
120	816	.120	.113	.351	.566
120	817	.111	.116	.448	.476
120	818	.208	.211	.799	.102
120	819	.110	.149	.466	.734
120	820	.530	.342	.055	.163
120	821	.337	.134	.073	.967
120	822	.261	.103	.046	.690
120	823	.188	.103	.182	.740
120	824	.272	.140	.142	.317
120	825	.373	.152	.144	.012
120	826	.384	.139	.113	.116
120	827	.199	.100	.135	.592
120	828	.163	.127	.309	.609
120	829	.351	.142	.078	.151
120	830	.357	.120	.093	.878
120	831	.187	.103	.115	.616
120	832	.180	.108	.159	.587
120	901	.152	.104	.187	.695
120	902	.183	.107	.133	.688
120	903	.205	.101	.203	.649
120	904	.302	.114	.095	.722
120	905	.149	.103	.233	.512
120	907	.164	.099	.243	.540
120	908	.277	.110	.153	.760
120	909	.332	.144	.069	.438
120	910	.145	.100	.219	.525
120	911	.264	.121	.157	.984
120	912	.379	.142	.052	.128
120	913	.147	.130	.316	.602
120	914	.310	.140	.151	.078
120	915	.178	.098	.127	.644
120	916	.188	.170	.521	.864
120	917	.161	.097	.229	.509
120	918	.185	.109	.236	.672
120	919	.138	.100	.250	.490
120	920	.208	.103	.149	.556
120	921	.184	.111	.164	.606
120	922	.225	.115	.115	.676
130	101	.240	.112	.088	.674
130	102	.206	.100	.130	.558
130	103	.252	.117	.091	.808
130	104	.222	.115	.161	.772

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1330	105	.188	.113	.162	.898	1330	156	.115	.090	.192	.413	1330	213	.015	.118	.452	.362
1330	106	.169	.113	.164	.798	1330	157	.120	.090	.179	.412	1330	214	.051	.107	.343	.400
1330	107	.167	.113	.163	.828	1330	158	.269	.119	.091	.907	1330	215	.118	.106	.263	.516
1330	108	.148	.111	.166	.815	1330	159	.261	.110	.057	.898	1330	216	.057	.142	.764	.378
1330	109	.141	.110	.155	.767	1330	160	.115	.086	.165	.411	1330	217	.024	.111	.442	.309
1330	110	.218	.103	.133	.748	1330	161	.122	.103	.238	.437	1330	218	.063	.099	.297	.424
1330	111	.234	.104	.114	.831	1330	162	.108	.086	.170	.396	1330	219	.128	.106	.241	.429
1330	112	.209	.101	.147	.581	1330	163	.254	.107	.113	.679	1330	220	.052	.137	.586	.360
1330	113	.214	.116	.161	.619	1330	164	.116	.102	.218	.495	1330	221	.040	.116	.487	.346
1330	114	.178	.109	.149	.199	1330	165	.112	.086	.184	.382	1330	222	.061	.100	.304	.476
1330	115	.161	.104	.196	.838	1330	166	.262	.112	.100	.743	1330	223	.133	.101	.203	.430
1330	116	.123	.096	.226	.541	1330	167	.255	.114	.096	.664	1330	224	.023	.144	.627	.503
1330	117	.160	.102	.134	.603	1330	168	.260	.136	.056	.866	1330	225	.002	.130	.498	.455
1330	118	.142	.099	.158	.542	1330	169	.247	.138	.160	.993	1330	226	.021	.112	.382	.649
1330	119	.195	.098	.159	.578	1330	170	.235	.123	.086	.781	1330	227	.085	.107	.332	.544
1330	120	.206	.097	.116	.564	1330	171	.174	.101	.098	.541	1330	228	.143	.105	.241	.522
1330	121	.137	.098	.194	.470	1330	172	.155	.092	.174	.485	1330	229	.011	.120	.507	.418
1330	122	.154	.100	.174	.594	1330	173	.123	.091	.206	.458	1330	230	.012	.110	.439	.438
1330	123	.229	.104	.128	.749	1330	174	.116	.090	.206	.428	1330	231	.086	.100	.292	.381
1330	124	.139	.092	.201	.574	1330	175	.108	.090	.207	.415	1330	232	.156	.108	.245	.382
1330	125	.211	.104	.123	.807	1330	176	.123	.089	.167	.405	1330	233	.043	.111	.356	.413
1330	126	.208	.104	.138	.618	1330	177	.244	.112	.115	.678	1330	234	.033	.103	.436	.322
1330	127	.135	.105	.227	.444	1330	178	.260	.116	.097	.704	1330	235	.008	.105	.383	.385
1330	128	.120	.103	.239	.526	1330	179	.111	.088	.171	.384	1330	236	.069	.080	.203	.422
1330	129	.212	.110	.142	.652	1330	180	.125	.086	.144	.396	1330	237	.127	.095	.197	.549
1330	130	.235	.111	.116	.443	1330	181	.254	.120	.082	.837	1330	238	.125	.105	.276	.489
1330	131	.219	.111	.130	.658	1330	182	.102	.084	.166	.374	1330	239	.048	.105	.395	.420
1330	132	.204	.105	.072	.588	1330	183	.205	.103	.106	.736	1330	240	.051	.098	.280	.473
1330	133	.170	.096	.184	.555	1330	184	.236	.114	.094	.698	1330	241	.141	.098	.184	.419
1330	134	.154	.096	.196	.464	1330	185	.142	.089	.118	.456	1330	242	.035	.101	.373	.361
1330	135	.124	.094	.223	.443	1330	186	.128	.086	.129	.412	1330	243	.011	.108	.514	.473
1330	136	.113	.094	.264	.410	1330	187	.111	.087	.162	.395	1330	244	.008	.100	.391	.376
1330	137	.134	.092	.166	.442	1330	188	.133	.087	.153	.433	1330	245	.113	.106	.232	.455
1330	138	.206	.103	.124	.570	1330	189	.131	.086	.166	.433	1330	301	.157	.105	.229	.567
1330	140	.205	.102	.150	.549	1330	190	.130	.080	.134	.412	1330	302	.155	.100	.165	.571
1330	141	.136	.084	.110	.425	1330	191	.107	.086	.170	.435	1330	303	.239	.131	.347	.898
1330	142	.134	.103	.223	.430	1330	192	.115	.091	.225	.410	1330	304	.168	.118	.278	.581
1330	143	.203	.093	.093	.565	1330	193	.116	.090	.214	.408	1330	305	.177	.120	.291	.395
1330	144	.131	.083	.123	.410	1330	201	.036	.114	.423	.355	1330	306	.206	.122	.258	.724
1330	145	.205	.094	.196	.579	1330	202	.073	.119	.461	.509	1330	307	.269	.142	.290	.905
1330	146	.227	.097	.068	.581	1330	203	.098	.110	.307	.495	1330	308	.113	.161	.622	.986
1330	147	.123	.086	.163	.453	1330	204	.023	.125	.607	.395	1330	309	.002	.188	.969	.726
1330	148	.125	.086	.162	.470	1330	205	.011	.109	.466	.338	1330	310	.017	.154	.591	.417
1330	149	.235	.088	.088	.713	1330	206	.040	.101	.311	.394	1330	311	.013	.145	.584	.443
1330	150	.239	.102	.079	.634	1330	207	.108	.105	.315	.448	1330	312	.013	.174	.887	.576
1330	151	.247	.104	.107	.820	1330	208	.054	.142	.641	.782	1330	313	.084	.120	.478	.422
1330	152	.195	.094	.111	.559	1330	209	.027	.118	.488	.324	1330	314	.083	.144	.654	.363
1330	153	.157	.087	.166	.470	1330	210	.042	.107	.398	.438	1330	315	.151	.097	.167	.354
1330	154	.121	.086	.159	.415	1330	211	.114	.095	.248	.420	1330	316	.184	.100	.146	.572
1330	155	.127	.091	.192	.428	1330	212	.046	.135	.542	.401	1330	317	.246	.121	.294	.651

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1300	318	173	114	200	616	1300	3369	224	134	619	315	1300	420	077	104	322	454
1300	319	177	114	217	631	1300	3370	224	140	685	311	1300	421	089	111	256	453
1300	320	200	113	172	601	1300	3372	153	087	135	490	1300	501	129	091	235	462
1300	322	273	127	352	732	1300	3373	156	090	156	472	1300	502	137	090	217	512
1300	323	092	147	537	597	1300	3374	166	091	115	488	1300	503	143	089	214	451
1300	324	014	169	617	502	1300	3375	192	096	117	547	1300	504	151	091	197	470
1300	325	032	173	928	469	1300	3376	188	100	144	580	1300	505	164	098	166	459
1300	326	048	189	784	602	1300	3377	161	108	261	539	1300	506	158	097	170	472
1300	327	011	163	648	437	1300	3378	086	114	364	503	1300	507	160	098	166	461
1300	328	072	129	474	514	1300	3379	000	129	572	443	1300	508	134	095	177	432
1300	329	016	122	546	318	1300	3380	000	127	524	440	1300	509	119	085	227	498
1300	330	134	090	139	508	1300	3381	159	098	179	463	1300	510	140	093	159	496
1300	331	086	142	139	508	1300	3382	159	098	183	477	1300	511	145	089	153	451
1300	332	197	093	099	546	1300	3383	160	099	156	436	1300	512	154	088	114	470
1300	333	148	097	148	530	1300	3384	150	090	145	505	1300	513	147	089	146	466
1300	334	174	096	189	564	1300	3385	176	097	145	542	1300	514	163	088	156	466
1300	335	151	100	224	558	1300	3386	177	101	141	577	1300	515	126	087	205	470
1300	336	082	119	389	417	1300	3387	191	106	199	598	1300	516	129	087	211	419
1300	337	086	139	636	422	1300	3388	111	111	302	666	1300	517	135	087	219	440
1300	338	053	143	659	337	1300	3389	111	115	375	481	1300	518	135	087	413	496
1300	339	080	138	707	332	1300	3390	093	120	580	506	1300	519	166	094	173	496
1300	340	156	090	706	367	1300	3391	133	093	187	448	1300	520	161	093	183	490
1300	341	144	090	144	479	1300	3392	144	087	124	433	1300	521	133	094	198	464
1300	342	159	092	149	458	1300	3393	172	091	135	495	1300	522	156	089	186	456
1300	343	191	098	137	475	1300	3394	164	089	140	512	1300	523	132	093	199	447
1300	344	190	099	160	564	1300	3395	175	088	162	540	1300	524	156	086	104	447
1300	345	175	099	145	590	1300	3396	188	093	208	584	1300	525	166	086	101	442
1300	346	153	104	187	597	1300	3397	149	094	335	455	1300	526	169	086	110	441
1300	347	157	111	328	589	1300	3398	058	114	738	479	1300	527	161	085	113	424
1300	348	067	133	834	493	1300	3399	126	084	162	416	1300	528	126	086	163	415
1300	349	033	136	802	344	1300	4000	148	086	157	449	1300	529	143	097	185	450
1300	350	088	142	718	277	1300	4001	144	093	170	462	1300	530	134	092	142	446
1300	351	085	143	777	280	1300	4002	144	088	162	452	1300	531	137	089	133	487
1300	352	151	082	101	497	1300	4003	144	089	152	471	1300	532	142	088	122	490
1300	353	154	096	129	541	1300	4004	151	090	147	447	1300	533	159	096	164	473
1300	354	086	142	142	464	1300	4005	169	095	211	510	1300	534	135	094	189	451
1300	355	186	092	172	508	1300	4006	164	098	193	471	1300	535	115	096	206	468
1300	356	188	098	178	489	1300	4007	137	093	200	525	1300	536	124	082	218	465
1300	357	181	098	152	503	1300	4008	068	102	259	451	1300	537	103	094	200	440
1300	358	194	099	171	488	1300	4009	133	089	196	457	1300	538	131	095	205	465
1300	359	165	103	215	526	1300	4100	144	088	182	448	1300	539	135	093	173	456
1300	360	071	118	519	478	1300	4101	144	088	195	437	1300	540	156	096	151	505
1300	361	078	146	681	375	1300	4102	150	085	109	440	1300	541	098	093	412	459
1300	362	161	085	161	461	1300	4103	150	087	103	445	1300	542	118	082	221	459
1300	363	155	085	123	460	1300	4104	148	096	167	534	1300	543	121	094	192	488
1300	364	179	089	123	472	1300	4105	148	084	130	537	1300	544	098	093	195	401
1300	365	173	091	178	498	1300	4106	144	090	157	430	1300	545	153	095	141	480
1300	366	158	099	178	550	1300	4107	162	093	118	486	1300	546	134	094	165	429
1300	367	166	109	296	506	1300	4108	160	094	093	507	1300	547	167	100	160	525
1300	368	091	120	408	451	1300	4109	147	092	151	480	1300	548	096	095	254	472

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1300	549	.114	.097	.221	-.424	1300	816	-.160	.109	.317	-.554	1400	113	-.206	.108	.121	-.663
1300	550	-.121	.096	.234	-.504	1300	817	-.155	.117	.324	-.606	1400	114	-.153	.100	.149	-.560
1300	551	-.101	.097	.227	-.488	1300	818	-.320	.251	.787	-1.425	1400	115	-.144	.101	.178	-.514
1300	552	-.156	.087	.173	-.454	1300	819	-.099	.183	.809	-.861	1400	116	-.105	.097	.259	-.497
1300	553	-.130	.085	.188	-.433	1300	820	-.609	.394	1.117	-2.637	1400	117	-.140	.100	.195	-.521
1300	554	-.148	.085	.159	-.447	1300	821	-.396	.195	.064	-1.349	1400	118	-.123	.097	.209	-.505
1300	555	-.142	.084	.142	-.394	1300	822	-.306	.124	.058	-.747	1400	119	-.194	.104	.212	-.648
1300	556	-.081	.084	.250	-.364	1300	823	-.223	.116	.211	-.779	1400	120	-.179	.103	.197	-.577
1300	557	-.120	.091	.182	-.438	1300	824	-.335	.169	.115	-1.269	1400	121	-.125	.098	.211	-.452
1300	558	-.091	.090	.209	-.411	1300	825	-.459	.196	.107	-1.209	1400	122	-.139	.089	.212	-.504
1300	559	-.147	.093	.169	-.469	1300	826	-.482	.184	.000	-1.366	1400	123	-.221	.106	.179	-.638
1300	560	-.116	.090	.157	-.425	1300	827	-.225	.115	.162	-.694	1400	124	-.103	.093	.249	-.686
1300	561	-.114	.093	.233	-.504	1300	828	-.166	.152	.534	-.843	1400	125	-.204	.105	.162	-.599
1300	562	-.106	.082	.148	-.382	1300	829	-.425	.183	.075	-1.197	1400	126	-.193	.108	.131	-.639
1300	563	-.089	.092	.233	-.471	1300	830	-.453	.167	.030	-1.206	1400	127	-.125	.093	.185	-.411
1300	564	-.111	.092	.233	-.505	1300	831	-.202	.117	.198	-.663	1400	128	-.097	.090	.200	-.384
1300	565	-.120	.092	.222	-.524	1300	832	-.195	.119	.156	-.714	1400	129	-.214	.105	.118	-.642
1300	566	-.158	.089	.200	-.402	1300	901	-.132	.120	.262	-.850	1400	130	-.230	.106	.147	-.592
1300	567	-.130	.088	.225	-.375	1300	902	-.176	.123	.263	-.884	1400	131	-.214	.105	.137	-.546
1300	568	-.107	.085	.107	-.418	1300	903	-.210	.123	.261	-.769	1400	132	-.176	.101	.156	-.528
1300	569	-.117	.086	.208	-.384	1300	904	-.373	.142	.052	-.936	1400	133	-.164	.090	.120	-.486
1300	570	-.090	.085	.238	-.344	1300	905	-.153	.126	.369	-.611	1400	134	-.148	.090	.153	-.449
1300	571	-.137	.089	.162	-.533	1300	906	-.165	.118	.325	-.554	1400	135	-.119	.087	.152	-.440
1300	572	-.134	.089	.178	-.517	1300	908	-.351	.140	.220	-.849	1400	136	-.095	.086	.174	-.388
1300	573	-.154	.089	.156	-.531	1300	909	-.394	.159	.286	-1.177	1400	137	-.123	.088	.192	-.401
1300	574	-.120	.089	.189	-.487	1300	910	-.152	.098	.200	-.525	1400	138	-.192	.099	.153	-.579
1300	575	-.125	.085	.127	-.409	1300	911	-.295	.136	.090	-.839	1400	140	-.198	.100	.154	-.616
1300	576	-.119	.089	.201	-.416	1300	912	-.487	.171	-.013	-1.076	1400	141	-.126	.088	.171	-.488
1300	577	-.094	.087	.219	-.386	1300	913	-.135	.152	.494	-.864	1400	142	-.123	.093	.179	-.427
1300	578	-.117	.086	.193	-.405	1300	914	-.347	.160	.097	-.995	1400	143	-.202	.099	.097	-.642
1300	579	-.085	.087	.227	-.404	1300	915	-.187	.107	.175	-.609	1400	144	-.119	.087	.174	-.482
1300	580	-.121	.090	.189	-.427	1300	916	-.286	.227	.796	-1.496	1400	145	-.204	.102	.112	-.678
1300	581	-.100	.092	.225	-.410	1300	917	-.164	.095	.152	-.504	1400	146	-.216	.103	.141	-.655
1300	582	-.151	.092	.162	-.466	1300	918	-.184	.109	.166	-.647	1400	147	-.113	.088	.175	-.394
1300	583	-.109	.092	.198	-.423	1300	919	-.143	.095	.135	-.589	1400	148	-.120	.088	.179	-.404
1300	801	-.344	.191	-.493	-.950	1300	920	-.263	.106	.048	-.827	1400	149	-.228	.105	.118	-.638
1300	802	-.377	.191	-.609	-.425	1300	921	-.217	.117	.200	-.710	1400	150	-.227	.108	.129	-.776
1300	803	-.168	.188	-.653	-.706	1300	922	-.256	.125	.209	-.723	1400	151	-.244	.106	.085	-.729
1300	804	-.242	.135	-.326	-.773	1400	101	-.232	.106	.102	-.784	1400	152	-.182	.097	.112	-.511
1300	805	-.262	.125	-.248	-.656	1400	102	-.201	.101	.160	-.604	1400	153	-.151	.093	.147	-.440
1300	806	-.282	.109	-.102	-.751	1400	103	-.242	.108	.100	-.764	1400	154	-.115	.091	.226	-.436
1300	807	-.195	.105	-.281	-.672	1400	104	-.204	.101	.098	-.721	1400	155	-.124	.090	.177	-.452
1300	808	-.222	.112	-.209	-.703	1400	105	-.150	.099	.145	-.883	1400	156	-.104	.088	.193	-.424
1300	809	-.169	.103	-.217	-.599	1400	106	-.149	.100	.164	-.599	1400	157	-.117	.089	.188	-.437
1300	810	-.256	.103	-.169	-.713	1400	107	-.148	.099	.187	-.503	1400	158	-.257	.114	.086	-.737
1300	811	-.146	.123	-.217	-.619	1400	108	-.130	.096	.199	-.440	1400	159	-.246	.108	.072	-.873
1300	812	-.115	.115	-.435	-.579	1400	109	-.111	.095	.216	-.426	1400	160	-.095	.086	.200	-.396
1300	813	-.149	.114	-.322	-.536	1400	110	-.214	.102	.103	-.865	1400	161	-.085	.089	.211	-.392
1300	814	-.118	.118	-.180	-.704	1400	111	-.228	.101	.087	-.619	1400	162	-.104	.087	.180	-.422
1300	815	-.168	.109	-.314	-.576	1400	112	-.213	.111	.165	-.658	1400	163	-.247	.112	-.112	-.759

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	164	090	090	171	413	140	221	028	106	414	355	140	326	024	151	690	475
140	165	095	085	204	464	140	222	041	098	302	402	140	327	078	128	516	448
140	166	254	116	111	832	140	223	123	100	176	490	140	328	014	126	565	401
140	167	258	118	102	854	140	224	007	133	563	477	140	329	131	085	145	403
140	168	278	128	099	842	140	225	011	125	437	489	140	330	147	079	104	407
140	169	236	124	154	740	140	226	018	112	424	454	140	331	171	084	145	468
140	170	215	111	125	737	140	227	063	106	330	430	140	332	187	095	130	522
140	171	168	091	144	524	140	228	134	107	219	505	140	333	188	095	178	575
140	172	141	089	146	468	140	229	027	115	450	407	140	334	196	102	195	611
140	173	099	088	188	393	140	230	004	110	417	321	140	335	160	109	343	523
140	174	110	087	166	418	140	231	075	098	255	426	140	336	070	117	388	431
140	175	111	087	160	420	140	232	135	104	229	622	140	337	007	123	416	453
140	176	117	088	220	386	140	233	060	105	293	393	140	338	030	134	600	374
140	177	223	112	164	771	140	234	012	100	375	335	140	339	019	137	636	378
140	178	257	118	147	926	140	235	015	110	412	342	140	340	148	108	226	413
140	179	110	087	217	380	140	236	062	089	277	350	140	341	133	086	246	409
140	180	117	094	208	448	140	237	111	100	251	512	140	342	148	086	242	419
140	181	222	120	151	772	140	238	134	107	234	541	140	343	182	091	230	508
140	182	101	092	217	419	140	239	048	101	362	384	140	344	184	091	152	583
140	183	195	108	176	689	140	240	041	096	381	362	140	345	179	094	131	552
140	184	225	107	150	887	140	241	126	080	141	483	140	346	186	098	155	576
140	185	119	088	204	399	140	242	038	098	453	343	140	347	144	107	246	517
140	186	118	088	214	398	140	243	001	102	389	327	140	348	036	123	446	404
140	187	108	089	210	390	140	244	002	096	357	327	140	349	037	126	524	362
140	188	127	087	218	400	140	245	111	094	193	471	140	350	075	142	717	404
140	189	107	085	235	377	140	301	130	088	131	408	140	351	154	078	089	414
140	190	121	077	150	372	140	302	160	089	170	505	140	352	130	089	159	418
140	191	101	086	218	396	140	303	166	125	435	648	140	353	151	085	129	455
140	192	111	088	184	511	140	304	139	113	369	553	140	354	157	092	181	507
140	193	096	086	207	492	140	305	145	110	260	554	140	355	175	089	103	463
140	201	024	114	483	367	140	306	182	117	316	582	140	356	181	089	109	474
140	202	069	111	464	431	140	307	241	128	303	744	140	357	202	092	085	558
140	203	078	100	430	431	140	308	180	136	412	734	140	358	203	098	123	555
140	204	017	132	534	410	140	309	066	160	759	725	140	359	145	111	449	531
140	205	011	120	584	362	140	310	046	134	486	461	140	360	003	129	498	415
140	206	019	110	465	373	140	311	008	134	581	372	140	361	134	085	143	470
140	207	099	098	308	474	140	312	054	171	719	570	140	362	159	091	154	487
140	208	042	149	634	476	140	313	087	123	615	416	140	363	174	098	107	485
140	209	024	127	470	446	140	314	113	141	537	562	140	364	183	091	137	479
140	210	024	110	356	461	140	315	158	093	130	457	140	365	201	098	140	505
140	211	107	107	422	481	140	316	186	090	141	539	140	366	202	103	173	571
140	212	035	134	701	438	140	317	168	130	454	831	140	367	138	104	311	499
140	213	024	118	358	408	140	318	144	114	380	482	140	368	037	115	426	401
140	214	025	105	343	413	140	319	150	111	496	568	140	369	004	123	671	371
140	215	107	107	253	535	140	320	184	112	236	577	140	370	154	087	125	426
140	216	037	130	591	356	140	321	237	118	174	768	140	371	146	085	224	462
140	217	029	110	555	297	140	322	161	123	271	618	140	372	156	086	186	486
140	218	035	099	376	397	140	323	073	135	416	665	140	373	189	091	161	488
140	219	117	108	283	519	140	324	047	148	572	475	140	374	210	096	215	546
140	220	014	124	657	433	140	325	046	170	838	681	140	377	185	107	214	556

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	378	.135	.107	.201	.449	140	507	.159	.087	.170	.578	140	357	.118	.092	.167	.433
140	379	.065	.117	.309	.409	140	508	.116	.087	.191	.430	140	358	.082	.090	.199	.382
140	380	.042	.121	.412	.405	140	509	.106	.094	.218	.402	140	359	.141	.093	.145	.435
140	381	.120	.085	.182	.421	140	510	.132	.094	.164	.426	140	360	.106	.091	.167	.419
140	382	.155	.093	.124	.546	140	511	.124	.092	.161	.437	140	361	.110	.089	.212	.435
140	383	.158	.094	.178	.443	140	512	.151	.092	.137	.449	140	362	.088	.091	.212	.367
140	384	.159	.095	.129	.480	140	513	.148	.093	.135	.441	140	363	.072	.085	.231	.390
140	385	.175	.091	.113	.486	140	514	.166	.091	.091	.440	140	364	.119	.089	.197	.433
140	386	.195	.095	.111	.531	140	515	.105	.090	.162	.412	140	365	.086	.085	.238	.411
140	387	.199	.098	.136	.554	140	516	.121	.090	.247	.389	140	366	.164	.105	.199	.483
140	388	.211	.101	.169	.610	140	517	.126	.090	.144	.420	140	367	.130	.107	.255	.488
140	389	.162	.103	.193	.525	140	518	.127	.090	.122	.413	140	368	.122	.094	.186	.399
140	390	.072	.114	.373	.433	140	519	.161	.086	.128	.440	140	369	.111	.099	.250	.413
140	391	.128	.090	.137	.503	140	520	.145	.086	.127	.423	140	370	.060	.094	.271	.344
140	392	.140	.087	.136	.435	140	521	.121	.087	.177	.414	140	371	.146	.091	.180	.455
140	393	.186	.090	.096	.494	140	522	.141	.094	.238	.405	140	372	.106	.090	.209	.399
140	394	.177	.094	.174	.495	140	523	.121	.087	.175	.400	140	373	.154	.092	.171	.475
140	395	.169	.094	.197	.487	140	524	.145	.092	.192	.475	140	374	.104	.089	.219	.415
140	396	.175	.099	.237	.476	140	525	.145	.089	.165	.481	140	375	.094	.091	.192	.374
140	397	.169	.096	.231	.506	140	526	.164	.090	.144	.473	140	376	.122	.088	.194	.416
140	398	.092	.106	.329	.458	140	527	.154	.090	.151	.465	140	377	.076	.085	.229	.361
140	399	.120	.090	.247	.398	140	528	.116	.086	.185	.424	140	378	.120	.085	.176	.410
140	400	.132	.090	.186	.417	140	529	.136	.086	.156	.401	140	379	.065	.084	.232	.348
140	401	.146	.093	.141	.475	140	530	.167	.083	.165	.425	140	380	.128	.084	.156	.394
140	402	.137	.090	.204	.425	140	531	.124	.087	.198	.411	140	381	.091	.084	.190	.343
140	403	.148	.089	.242	.460	140	532	.095	.084	.193	.379	140	382	.147	.087	.117	.430
140	404	.146	.090	.184	.481	140	533	.162	.093	.151	.506	140	383	.092	.082	.181	.344
140	405	.171	.090	.155	.477	140	534	.121	.090	.186	.458	140	384	.355	.175	.075	.494
140	406	.178	.094	.198	.486	140	535	.104	.093	.211	.461	140	385	.414	.185	.090	.195
140	407	.147	.092	.154	.462	140	536	.120	.095	.203	.425	140	386	.255	.185	.598	.487
140	408	.071	.097	.252	.408	140	537	.063	.088	.256	.401	140	387	.200	.124	.269	.868
140	409	.131	.087	.162	.404	140	538	.122	.089	.172	.418	140	388	.169	.102	.140	.486
140	410	.144	.087	.149	.420	140	539	.105	.086	.172	.401	140	389	.197	.101	.243	.538
140	411	.152	.085	.172	.476	140	540	.153	.091	.155	.477	140	390	.177	.109	.257	.535
140	412	.159	.087	.152	.460	140	541	.050	.085	.223	.328	140	391	.181	.110	.217	.546
140	413	.161	.091	.148	.475	140	542	.092	.093	.226	.384	140	392	.184	.102	.172	.527
140	414	.187	.100	.148	.561	140	543	.118	.094	.231	.463	140	393	.239	.112	.130	.647
140	415	.140	.077	.122	.406	140	544	.082	.090	.218	.421	140	394	.187	.124	.332	.688
140	416	.155	.084	.159	.459	140	545	.148	.093	.168	.486	140	395	.163	.116	.175	.634
140	417	.156	.089	.097	.506	140	546	.104	.091	.177	.417	140	396	.160	.115	.183	.612
140	418	.173	.092	.115	.526	140	547	.169	.090	.153	.500	140	397	.189	.118	.148	.646
140	419	.138	.103	.368	.455	140	548	.065	.084	.214	.388	140	398	.163	.103	.191	.492
140	420	.091	.102	.241	.449	140	549	.111	.086	.175	.390	140	399	.167	.103	.212	.513
140	421	.121	.106	.266	.764	140	550	.109	.085	.182	.435	140	400	.174	.105	.251	.515
140	501	.120	.094	.254	.397	140	551	.065	.083	.227	.413	140	401	.385	.224	.408	.719
140	502	.134	.099	.197	.446	140	552	.133	.091	.197	.473	140	402	.119	.178	.905	.911
140	503	.129	.084	.158	.509	140	553	.122	.088	.194	.464	140	403	.311	.185	.143	.628
140	504	.136	.088	.161	.561	140	554	.159	.091	.162	.520	140	404	.189	.117	.150	.921
140	505	.162	.088	.162	.455	140	555	.106	.094	.195	.390	140	405	.199	.103	.112	.600
140	506	.145	.086	.184	.549	140	556	.050	.087	.254	.379	140	406	.211	.123	.138	.973

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	824	.225	.141	.303	-.100	150	121	.126	.095	.187	-.501	150	172	.127	.093	.182	-.434
140	825	.260	.145	.167	-.787	150	122	.125	.087	.152	-.424	150	173	.075	.090	.200	-.380
140	826	.219	.116	.161	-.650	150	123	.187	.106	.136	-.570	150	174	.097	.090	.236	-.402
140	827	.176	.098	.116	-.613	150	124	.111	.094	.204	-.426	150	175	.086	.089	.222	-.384
140	828	.215	.163	.506	-.852	150	125	.178	.105	.143	-.559	150	176	.110	.086	.185	-.429
140	829	.247	.139	.248	-.040	150	126	.335	.106	-.005	-.704	150	177	.182	.108	.137	-.377
140	830	.229	.112	.185	-.742	150	127	.115	.101	.220	-.418	150	178	.226	.115	.134	-.973
140	831	.158	.095	.131	-.666	150	128	.114	.102	.230	-.430	150	179	.091	.084	.206	-.390
140	832	.173	.105	.135	-.632	150	129	.192	.112	.136	-.624	150	180	.114	.091	.234	-.443
140	901	.147	.104	.160	-.634	150	130	.187	.114	.164	-.627	150	181	.194	.122	.164	-.833
140	902	.164	.112	.222	-.822	150	131	.181	.113	.185	-.628	150	182	.086	.090	.227	-.392
140	903	.212	.123	.285	-.744	150	132	.323	.106	.014	-.697	150	183	.170	.108	.159	-.663
140	904	.347	.147	.068	-.101	150	133	.152	.097	.158	-.474	150	184	.202	.112	.176	-.736
140	905	.138	.107	.238	-.516	150	134	.119	.094	.177	-.418	150	185	.094	.089	.236	-.419
140	907	.137	.103	.213	-.020	150	135	.105	.092	.181	-.413	150	186	.108	.087	.214	-.420
140	908	.321	.149	.242	-.082	150	136	.267	.089	.028	-.562	150	187	.108	.088	.240	-.420
140	909	.354	.169	.113	-.111	150	137	.113	.095	.219	-.445	150	188	.116	.088	.194	-.399
140	910	.132	.103	.173	-.233	150	138	.166	.105	.169	-.727	150	189	.080	.085	.222	-.366
140	911	.164	.111	.150	-.551	150	140	.172	.104	.170	-.586	150	190	.107	.079	.151	-.377
140	912	.280	.136	.127	-.689	150	141	.110	.091	.265	-.410	150	191	.082	.086	.215	-.371
140	913	.174	.157	.522	-.444	150	142	.115	.101	.233	-.433	150	192	.101	.087	.172	-.384
140	914	.331	.156	.241	-.167	150	143	.147	.096	.245	-.516	150	193	.068	.085	.200	-.350
140	915	.159	.096	.130	-.511	150	144	.101	.090	.264	-.398	150	201	.069	.104	.471	-.337
140	916	.355	.189	.360	-.394	150	145	.157	.097	.243	-.535	150	202	.075	.113	.344	-.315
140	917	.158	.099	.156	-.570	150	146	.200	.098	.123	-.653	150	203	.215	.103	.168	-.597
140	918	.176	.107	.201	-.708	150	147	.084	.081	.175	-.395	150	204	.010	.119	.532	-.374
140	919	.149	.102	.171	-.520	150	148	.104	.081	.159	-.425	150	205	.002	.113	.395	-.373
140	920	.222	.120	.182	-.933	150	149	.216	.112	.136	-.667	150	206	.147	.105	.256	-.497
140	921	.204	.122	.150	-.744	150	150	.196	.100	.138	-.590	150	207	.106	.103	.256	-.452
140	922	.210	.124	.199	-.744	150	151	.223	.110	.098	-.775	150	208	.000	.123	.521	-.431
1500	101	.217	.110	.088	-.567	150	152	.142	.100	.141	-.609	150	209	.007	.111	.555	-.359
1500	102	.182	.094	.121	-.599	150	153	.126	.090	.176	-.436	150	210	.136	.104	.318	-.457
1500	103	.211	.112	.156	-.638	150	154	.092	.086	.164	-.382	150	211	.110	.100	.296	-.441
1500	104	.180	.104	.144	-.796	150	155	.108	.093	.225	-.449	150	212	.006	.116	.445	-.376
1500	105	.271	.095	.011	-.478	150	156	.075	.091	.233	-.405	150	213	.003	.112	.429	-.361
1500	106	.144	.091	.164	-.452	150	157	.099	.092	.204	-.435	150	214	.129	.100	.247	-.498
1500	107	.130	.091	.190	-.444	150	158	.205	.112	.144	-.673	150	215	.110	.103	.284	-.431
1500	108	.119	.088	.064	-.550	150	159	.218	.104	.101	-.744	150	216	.009	.119	.515	-.371
1500	109	.245	.086	.064	-.550	150	160	.074	.085	.226	-.353	150	217	.004	.106	.404	-.373
1500	110	.199	.104	.103	-.912	150	161	.110	.099	.233	-.415	150	218	.124	.098	.218	-.443
1500	111	.195	.103	.114	-.721	150	162	.087	.085	.212	-.366	150	219	.122	.099	.248	-.421
1500	112	.193	.108	.158	-.618	150	163	.235	.123	.153	-.927	150	220	.021	.113	.451	-.423
1500	113	.168	.098	.169	-.553	150	164	.100	.095	.204	-.380	150	221	.008	.100	.369	-.326
1500	114	.277	.089	.004	-.598	150	165	.073	.093	.360	-.454	150	222	.114	.093	.253	-.423
1500	115	.140	.089	.134	-.448	150	166	.238	.129	.160	-.887	150	223	.126	.100	.195	-.469
1500	116	.121	.089	.191	-.443	150	167	.219	.129	.172	-.753	150	224	.038	.108	.451	-.388
1500	117	.121	.090	.444	-.444	150	168	.244	.135	.086	-.944	150	225	.028	.107	.433	-.385
1500	118	.112	.087	.144	-.444	150	169	.219	.121	.104	-.928	150	226	.024	.104	.386	-.391
1500	119	.179	.103	.113	-.624	150	170	.184	.112	.130	-.720	150	227	.113	.101	.361	-.452
1500	120	.320	.095	.034	-.656	150	171	.128	.095	.173	-.519	150	228	.129	.100	.230	-.478

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
15000	229	.064	.106	.372	.404	150	334	.148	.092	.147	.525	150	386	.130	.092	.198	.451
15000	230	.026	.107	.402	.392	150	335	.141	.097	.206	.453	150	387	.144	.094	.193	.476
15000	231	.068	.097	.371	.422	150	336	.091	.104	.315	.403	150	388	.159	.097	.198	.530
15000	232	.158	.098	.215	.499	150	337	.049	.108	.357	.380	150	389	.134	.098	.191	.537
15000	233	.078	.095	.286	.495	150	338	.017	.117	.622	.352	150	390	.077	.102	.321	.454
15000	2334	.022	.098	.328	.443	150	339	.023	.125	.581	.422	150	391	.127	.089	.207	.438
15000	2335	.040	.109	.463	.443	150	340	.118	.087	.187	.411	150	392	.111	.085	.171	.417
15000	2336	.066	.090	.306	.333	150	341	.107	.087	.185	.408	150	393	.137	.085	.143	.456
15000	2337	.128	.098	.245	.448	150	342	.116	.087	.154	.414	150	394	.133	.085	.170	.423
15000	2338	.140	.094	.165	.457	150	343	.132	.090	.232	.445	150	395	.134	.084	.170	.410
15000	2339	.077	.095	.275	.452	150	344	.138	.089	.160	.446	150	396	.148	.088	.158	.432
15000	240	.053	.091	.295	.375	150	345	.137	.091	.177	.445	150	397	.148	.089	.164	.440
15000	241	.137	.086	.141	.421	150	346	.147	.093	.168	.522	150	398	.093	.105	.315	.440
15000	242	.048	.088	.259	.350	150	347	.134	.097	.201	.416	150	399	.104	.089	.200	.387
15000	243	.019	.108	.337	.370	150	348	.066	.101	.284	.435	150	400	.110	.091	.188	.404
15000	244	.010	.104	.378	.350	150	349	.018	.108	.411	.359	150	401	.120	.088	.212	.425
15000	2445	.094	.097	.238	.337	150	350	.013	.119	.536	.367	150	402	.115	.092	.183	.402
15000	301	.134	.094	.181	.417	150	351	.126	.082	.140	.415	150	403	.120	.084	.136	.403
15000	302	.121	.085	.160	.431	150	352	.135	.095	.156	.457	150	404	.122	.084	.132	.399
15000	303	.139	.124	.447	.550	150	353	.125	.088	.151	.416	150	405	.139	.085	.115	.426
15000	304	.101	.119	.572	.524	150	354	.124	.086	.179	.407	150	406	.155	.086	.106	.445
15000	305	.096	.111	.416	.456	150	355	.127	.085	.214	.467	150	407	.133	.090	.269	.458
15000	306	.122	.109	.273	.566	150	356	.129	.085	.193	.498	150	408	.068	.103	.281	.493
15000	307	.192	.108	.186	.720	150	357	.145	.088	.150	.513	150	409	.116	.088	.241	.426
15000	308	.172	.111	.281	.618	150	358	.155	.090	.141	.486	150	410	.126	.087	.223	.427
15000	309	.130	.121	.390	.574	150	359	.126	.101	.331	.451	150	411	.116	.089	.202	.432
15000	310	.116	.111	.349	.600	150	361	.036	.115	.389	.537	150	412	.122	.088	.188	.447
15000	311	.119	.117	.492	.600	150	362	.126	.088	.145	.412	150	413	.139	.088	.178	.447
15000	3112	.061	.141	.532	.497	150	363	.128	.091	.183	.416	150	414	.156	.094	.177	.470
15000	313	.087	.125	.537	.331	150	364	.126	.086	.173	.438	150	415	.111	.088	.209	.383
15000	314	.083	.130	.491	.567	150	365	.130	.087	.175	.473	150	416	.124	.088	.146	.382
15000	315	.127	.095	.174	.447	150	366	.147	.091	.154	.510	150	417	.133	.091	.216	.435
15000	316	.138	.085	.149	.434	150	367	.156	.094	.152	.506	150	418	.159	.094	.179	.443
15000	317	.148	.115	.333	.545	150	368	.123	.098	.250	.458	150	419	.131	.093	.199	.430
15000	318	.114	.114	.392	.501	150	369	.068	.100	.249	.410	150	420	.083	.095	.220	.398
15000	319	.108	.110	.333	.448	150	370	.042	.106	.358	.400	150	421	.134	.105	.179	.519
15000	320	.132	.107	.221	.498	150	372	.124	.091	.183	.463	150	501	.116	.091	.198	.434
15000	321	.196	.110	.184	.594	150	373	.114	.087	.188	.469	150	502	.120	.092	.247	.450
15000	322	.163	.117	.334	.508	150	374	.119	.088	.177	.490	150	503	.115	.083	.147	.394
15000	323	.127	.124	.383	.566	150	375	.137	.091	.181	.513	150	504	.105	.086	.176	.398
15000	324	.116	.131	.435	.447	150	376	.154	.094	.166	.562	150	505	.134	.091	.207	.454
15000	325	.108	.147	.630	.560	150	377	.148	.096	.201	.519	150	506	.101	.089	.223	.400
15000	326	.051	.137	.616	.450	150	378	.121	.098	.213	.456	150	507	.129	.090	.213	.434
15000	327	.082	.132	.483	.529	150	379	.067	.105	.303	.417	150	508	.096	.089	.243	.384
15000	328	.021	.122	.492	.464	150	380	.053	.117	.390	.465	150	509	.119	.091	.243	.445
15000	329	.127	.092	.173	.450	150	381	.134	.087	.129	.414	150	510	.122	.089	.195	.433
15000	330	.116	.086	.220	.378	150	382	.126	.091	.212	.442	150	511	.091	.086	.203	.394
15000	331	.130	.089	.228	.423	150	383	.136	.092	.186	.441	150	512	.125	.088	.183	.434
15000	332	.136	.089	.157	.418	150	384	.122	.090	.172	.435	150	513	.116	.087	.179	.416
15000	333	.137	.090	.139	.471	150	385	.123	.090	.198	.422	150	514	.137	.087	.143	.472

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	832	123	098	218	523	150	565	138	090	166	533	150	832	123	098	218	523
150	901	120	101	244	480	150	566	132	090	158	436	150	901	120	101	244	480
150	902	137	105	256	591	150	567	074	086	203	365	150	902	137	105	256	591
150	903	178	122	278	889	150	568	113	097	165	519	150	903	178	122	278	889
150	904	279	148	199	013	150	569	096	088	189	189	150	904	279	148	199	013
150	905	115	099	196	512	150	570	116	090	170	441	150	905	115	099	196	512
150	907	117	096	167	431	150	571	122	085	157	383	150	907	117	096	167	431
150	908	270	138	253	890	150	572	065	082	189	319	150	908	270	138	253	890
150	909	264	133	167	890	150	573	123	085	165	322	150	909	264	133	167	890
150	910	115	092	215	460	150	574	141	089	160	416	150	910	115	092	215	460
150	911	123	103	203	499	150	575	138	096	141	505	150	911	123	103	203	499
150	912	191	133	171	553	150	576	103	094	180	461	150	912	191	133	171	553
150	913	173	133	335	677	150	577	044	089	218	380	150	913	173	133	335	677
150	914	252	147	207	218	150	578	098	091	178	444	150	914	252	147	207	218
150	915	129	098	205	460	150	579	114	096	184	489	150	915	129	098	205	460
150	916	262	149	202	124	150	580	112	086	219	386	150	916	262	149	202	124
150	917	132	101	238	545	150	581	058	084	258	321	150	917	132	101	238	545
150	918	124	102	260	539	150	582	115	088	209	399	150	918	124	102	260	539
150	919	136	103	251	502	150	583	130	092	206	425	150	919	136	103	251	502
150	920	122	103	195	821	150	584	177	118	217	801	150	920	122	103	195	821
150	921	163	108	195	735	150	585	130	139	182	334	150	921	163	108	195	735
150	922	125	105	331	504	150	800	207	118	217	801	150	922	125	105	331	504
160	101	125	096	199	457	160	801	150	106	175	985	160	101	125	096	199	457
160	102	116	093	243	411	160	802	207	142	234	985	160	102	116	093	243	411
160	103	114	096	199	445	160	803	150	106	154	665	160	103	114	096	199	445
160	104	099	090	195	391	160	804	134	109	262	592	160	104	099	090	195	391
160	105	121	087	177	391	160	805	178	099	195	572	160	105	121	087	177	391
160	106	094	092	204	411	160	806	127	109	232	325	160	106	094	092	204	411
160	107	084	091	217	389	160	807	133	106	238	388	160	107	084	091	217	389
160	108	083	091	207	386	160	808	194	112	165	644	160	108	083	091	207	386
160	109	118	088	154	425	160	809	142	106	248	735	160	109	118	088	154	425
160	110	119	094	172	510	160	810	194	112	222	333	160	110	119	094	172	510
160	111	110	096	185	525	160	811	142	106	226	444	160	111	110	096	185	525
160	112	121	098	253	465	160	812	121	100	233	472	160	112	121	098	253	465
160	113	097	091	210	431	160	813	119	101	226	472	160	113	097	091	210	431
160	114	117	086	172	413	160	814	164	103	233	523	160	114	117	086	172	413
160	115	090	085	180	397	160	815	124	097	201	504	160	115	090	085	180	397
160	116	100	097	285	440	160	816	118	097	230	439	160	116	100	097	285	440
160	117	079	085	207	381	160	817	126	095	211	435	160	117	079	085	207	381
160	118	078	084	200	384	160	818	259	144	346	299	160	118	078	084	200	384
160	119	122	099	244	478	160	819	153	153	414	024	160	119	122	099	244	478
160	120	144	086	125	485	160	820	170	121	305	821	160	120	144	086	125	485
160	121	084	090	317	376	160	821	133	099	167	470	160	121	084	090	317	376
160	122	098	083	168	440	160	822	204	105	119	633	160	122	098	083	168	440
160	123	108	094	276	457	160	823	143	099	193	501	160	123	108	094	276	457
160	124	137	099	262	486	160	824	123	113	291	466	160	124	137	099	262	486
160	125	109	093	282	444	160	825	152	110	235	591	160	125	109	093	282	444
160	126	142	099	236	457	160	826	183	100	141	649	160	126	142	099	236	457
160	127	093	090	161	399	160	827	140	102	188	471	160	127	093	090	161	399
160	128	093	090	160	408	160	828	172	129	230	845	160	128	093	090	160	408
160						160	829	142	114	201	537	160					
160						160	830	172	107	157	559	160					
160						160	831	133	099	166	522	160					

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	129	.123	.088	184	440	160	180	.094	.084	158	450	160	237	.061	.087	203	411
160	130	.112	.088	195	447	160	181	.071	.083	159	388	160	238	.114	.091	264	442
160	131	.108	.088	217	372	160	182	.052	.080	192	371	160	239	.084	.091	295	363
160	132	.135	.083	179	416	160	183	.080	.083	165	462	160	240	.070	.090	291	348
160	133	.087	.086	204	404	160	184	.111	.085	190	339	160	241	.100	.086	151	400
160	134	.070	.087	217	406	160	185	.059	.081	215	333	160	242	.087	.090	269	348
160	135	.069	.086	206	404	160	186	.088	.083	198	353	160	243	.071	.090	271	422
160	136	.114	.083	149	423	160	187	.066	.084	218	343	160	244	.041	.086	309	365
160	137	.097	.084	2259	379	160	188	.101	.084	218	377	160	245	.083	.096	234	469
160	138	.089	.085	2220	421	160	189	.057	.081	248	329	160	301	.173	105	253	533
160	140	.109	.087	232	434	160	190	.087	.076	220	325	160	302	.099	.084	218	458
160	141	.095	.087	201	415	160	191	.053	.083	222	319	160	303	.148	109	301	539
160	142	.094	.095	164	403	160	192	.082	.088	209	351	160	304	.102	107	255	444
160	143	.094	.087	226	391	160	193	.048	.084	220	309	160	305	.097	107	268	470
160	144	.082	.086	213	397	160	201	.088	.098	220	452	160	306	.112	104	317	482
160	145	.114	.089	206	428	160	202	.075	.090	222	419	160	307	.168	106	145	558
160	146	.127	.091	194	433	160	203	.105	.095	237	432	160	308	.126	101	229	470
160	147	.047	.080	234	353	160	204	.064	.097	229	419	160	309	.110	102	255	433
160	148	.081	.083	190	399	160	205	.054	.094	244	407	160	310	.115	090	245	378
160	149	.129	.090	209	416	160	206	.084	.091	224	420	160	311	.081	.095	246	387
160	150	.106	.090	209	416	160	207	.083	.092	220	406	160	312	.098	103	275	411
160	151	.129	.091	181	436	160	208	.057	.097	226	446	160	313	.094	.096	251	439
160	152	.061	.085	229	318	160	209	.050	.090	222	422	160	314	.102	103	358	468
160	153	.085	.086	209	355	160	210	.081	.083	231	389	160	315	.113	.096	273	460
160	154	.068	.086	230	343	160	211	.081	.095	231	450	160	316	.105	.084	226	462
160	155	.092	.086	204	371	160	212	.070	.094	232	392	160	317	.142	109	350	465
160	156	.047	.082	231	372	160	213	.056	.093	238	448	160	318	.102	111	366	504
160	157	.081	.084	202	434	160	214	.081	.087	222	394	160	319	.093	105	270	494
160	158	.111	.090	144	388	160	215	.082	.087	190	437	160	320	.113	103	218	505
160	159	.140	.093	175	443	160	216	.073	.103	379	362	160	321	.169	104	179	568
160	160	.046	.085	236	399	160	217	.054	.097	227	466	160	322	.121	101	238	432
160	161	.142	.098	130	443	160	218	.071	.090	222	354	160	323	.107	100	222	436
160	162	.064	.087	233	333	160	219	.082	.094	228	399	160	324	.112	103	229	460
160	163	.137	.091	130	399	160	220	.071	.094	225	397	160	325	.147	109	241	524
160	164	.087	.096	193	466	160	221	.049	.090	229	395	160	326	.097	101	489	425
160	165	.046	.081	237	445	160	222	.063	.087	229	429	160	327	.096	.093	264	441
160	166	.127	.090	171	551	160	223	.078	.094	222	357	160	328	.080	.088	287	348
160	167	.097	.088	204	521	160	224	.079	.092	226	427	160	329	.121	.092	265	396
160	168	.128	.103	265	506	160	225	.064	.091	249	397	160	330	.129	.086	237	403
160	169	.113	.092	203	669	160	226	.057	.086	291	348	160	331	.108	.085	206	379
160	170	.099	.096	263	444	160	227	.067	.084	227	373	160	332	.105	.085	181	397
160	171	.074	.091	277	445	160	228	.081	.092	224	485	160	333	.109	.085	171	411
160	172	.100	.091	272	444	160	229	.088	.095	229	380	160	334	.141	.087	141	480
160	173	.052	.087	290	333	160	230	.062	.095	229	362	160	335	.118	.087	166	510
160	174	.083	.089	269	371	160	231	.059	.093	226	377	160	336	.094	.089	230	414
160	175	.067	.088	293	352	160	232	.070	.092	360	389	160	337	.083	.091	219	397
160	176	.095	.090	174	333	160	233	.079	.088	279	367	160	338	.098	.096	217	407
160	177	.075	.090	203	385	160	234	.069	.081	183	365	160	339	.082	.095	252	390
160	178	.113	.093	176	429	160	235	.065	.091	199	426	160	340	.100	.092	232	402
160	179	.065	.088	201	351	160	236	.060	.079	175	365	160	341	.097	.092	238	407

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	342	123	.093	.207	.441	160	394	100	.082	.195	.421	160	523	066	.082	.231	.331
160	343	109	.091	.205	.439	160	395	102	.080	.185	.412	160	524	107	.089	.178	.397
160	344	102	.085	.202	.401	160	396	136	.084	.166	.458	160	525	073	.086	.203	.352
160	345	108	.085	.211	.426	160	397	133	.081	.149	.439	160	526	111	.090	.180	.418
160	346	138	.088	.199	.437	160	398	105	.093	.182	.509	160	527	085	.089	.210	.369
160	347	120	.087	.199	.420	160	399	089	.088	.157	.425	160	528	086	.089	.206	.374
160	348	090	.093	.233	.430	160	400	113	.092	.148	.462	160	529	094	.087	.201	.390
160	349	079	.094	.243	.465	160	401	095	.093	.224	.430	160	530	061	.088	.310	.367
160	350	095	100	.346	.463	160	402	119	.089	.141	.464	160	531	091	.091	.218	.434
160	351	110	.080	.180	.428	160	403	096	.085	.282	.381	160	532	099	.089	.213	.432
160	352	178	.097	.175	.486	160	404	097	.086	.278	.373	160	533	113	.092	.188	.432
160	353	113	.084	.162	.385	160	405	128	.087	.237	.411	160	534	123	.093	.181	.434
160	354	117	.091	.236	.432	160	406	138	.084	.190	.415	160	535	083	.093	.225	.388
160	355	102	.087	.199	.402	160	407	111	.087	.228	.404	160	536	087	.092	.218	.403
160	356	105	.087	.199	.406	160	408	125	.092	.213	.507	160	537	095	.092	.219	.418
160	357	140	.089	.148	.436	160	409	126	.091	.220	.435	160	538	095	.096	.225	.404
160	358	131	.087	.149	.436	160	410	131	.086	.204	.421	160	539	111	.095	.209	.414
160	359	103	.088	.233	.414	160	411	098	.087	.215	.414	160	540	111	.096	.204	.410
160	361	103	.094	.239	.462	160	412	097	.086	.223	.407	160	541	087	.095	.234	.411
160	362	110	.084	.199	.402	160	413	131	.089	.183	.451	160	542	162	.094	.152	.481
160	363	113	.087	.231	.364	160	414	152	.088	.167	.480	160	543	087	.095	.210	.442
160	364	097	.091	.196	.419	160	415	096	.084	.193	.374	160	544	102	.096	.201	.473
160	365	099	.091	.192	.412	160	416	123	.091	.172	.447	160	545	099	.095	.191	.480
160	366	134	.094	.199	.454	160	417	096	.089	.187	.386	160	546	120	.096	.179	.510
160	367	131	.091	.199	.445	160	418	103	.090	.186	.392	160	547	121	.094	.264	.427
160	368	105	.092	.134	.445	160	419	096	.089	.192	.384	160	548	094	.093	.300	.444
160	369	094	.094	.211	.422	160	420	070	.087	.189	.364	160	549	079	.087	.215	.360
160	370	115	.100	.256	.404	160	421	111	.090	.261	.448	160	550	088	.092	.319	.431
160	372	100	.088	.206	.398	160	501	089	.088	.183	.389	160	551	102	.093	.298	.439
160	373	095	.086	.206	.357	160	502	099	.094	.205	.413	160	552	103	.093	.208	.456
160	374	096	.086	.201	.371	160	503	098	.084	.166	.377	160	553	120	.095	.169	.472
160	375	127	.090	.175	.418	160	504	076	.086	.216	.329	160	554	113	.094	.174	.465
160	376	133	.089	.145	.423	160	505	116	.090	.204	.409	160	555	089	.088	.213	.385
160	377	110	.089	.183	.455	160	506	080	.086	.232	.351	160	556	091	.092	.201	.486
160	378	103	.088	.184	.439	160	507	110	.088	.213	.386	160	557	088	.090	.207	.413
160	379	123	.093	.190	.497	160	508	070	.084	.232	.321	160	558	088	.090	.194	.430
160	380	088	.095	.271	.421	160	509	104	.092	.207	.403	160	559	097	.088	.183	.418
160	381	170	.086	.113	.466	160	510	166	.089	.236	.400	160	560	117	.089	.164	.446
160	382	111	.095	.181	.450	160	511	071	.085	.234	.358	160	561	086	.091	.179	.391
160	383	103	.088	.173	.372	160	512	109	.086	.243	.406	160	562	099	.087	.206	.389
160	384	125	.088	.151	.472	160	513	094	.086	.256	.374	160	563	097	.090	.164	.417
160	385	092	.085	.157	.404	160	514	121	.086	.186	.415	160	564	091	.090	.167	.403
160	386	091	.086	.153	.413	160	515	061	.081	.221	.327	160	565	104	.089	.177	.432
160	387	097	.088	.141	.473	160	516	086	.088	.190	.387	160	566	109	.087	.196	.379
160	388	135	.086	.117	.460	160	517	096	.085	.205	.378	160	567	117	.088	.202	.382
160	389	108	.092	.233	.421	160	518	082	.089	.207	.375	160	568	096	.088	.213	.391
160	390	096	.094	.200	.419	160	519	113	.084	.198	.392	160	569	083	.085	.240	.385
160	391	112	.094	.220	.444	160	520	078	.084	.205	.333	160	570	089	.084	.232	.370
160	392	117	.093	.225	.437	160	521	087	.084	.202	.360	160	571	104	.087	.239	.399
160	393	123	.090	.213	.439	160	522	089	.089	.197	.388	160	572	104	.089	.243	.424

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	573	.100	.088	.241	.402	160	909	.125	.104	.209	.521	170	137	.086	.091	.170	.371
160	574	.110	.088	.238	.412	160	910	.102	.102	.189	.471	170	138	.096	.092	.177	.420
160	575	.171	.091	.137	.473	160	911	.102	.101	.214	.480	170	140	.090	.091	.187	.397
160	576	.086	.089	.236	.384	160	912	.139	.103	.189	.544	170	141	.085	.088	.291	.339
160	577	.094	.088	.237	.395	160	913	.117	.102	.211	.494	170	142	.094	.089	.191	.409
160	578	.090	.086	.228	.381	160	914	.117	.101	.225	.488	170	143	.095	.087	.270	.362
160	579	.093	.088	.223	.400	160	915	.109	.102	.233	.505	170	144	.092	.088	.295	.335
160	580	.094	.084	.208	.420	160	916	.149	.104	.192	.527	170	145	.103	.088	.270	.355
160	581	.108	.087	.190	.470	160	917	.115	.100	.233	.525	170	146	.098	.090	.220	.447
160	582	.098	.086	.192	.430	160	918	.106	.099	.258	.423	170	147	.076	.090	.238	.353
160	583	.102	.086	.190	.428	160	919	.115	.100	.232	.443	170	148	.078	.092	.227	.364
160	801	.121	.096	.200	.453	160	920	.169	.109	.226	.519	170	149	.094	.092	.193	.444
160	802	.163	.101	.176	.507	160	921	.132	.101	.221	.481	170	150	.103	.090	.203	.417
160	803	.124	.100	.190	.427	160	922	.105	.098	.219	.453	170	151	.098	.088	.190	.385
160	804	.107	.099	.250	.497	170	101	.094	.101	.244	.420	170	152	.079	.087	.215	.352
160	805	.108	.099	.203	.420	170	102	.100	.092	.204	.418	170	153	.074	.087	.222	.336
160	806	.148	.104	.233	.524	170	103	.107	.101	.241	.419	170	154	.079	.086	.216	.330
160	807	.117	.102	.229	.489	170	104	.081	.099	.265	.384	170	155	.086	.086	.233	.339
160	808	.115	.100	.253	.449	170	105	.047	.104	.409	.296	170	156	.080	.086	.228	.367
160	809	.116	.100	.252	.452	170	106	.078	.095	.231	.422	170	157	.079	.086	.234	.349
160	810	.155	.104	.223	.516	170	107	.096	.095	.221	.424	170	158	.106	.090	.211	.461
160	811	.112	.095	.345	.458	170	108	.076	.095	.244	.401	170	159	.101	.090	.261	.411
160	812	.097	.092	.297	.441	170	109	.054	.100	.375	.289	170	160	.080	.087	.343	.381
160	813	.105	.095	.274	.443	170	110	.087	.093	.295	.402	170	161	.211	.096	.092	.542
160	814	.144	.098	.241	.506	170	111	.107	.093	.283	.437	170	162	.090	.087	.335	.388
160	815	.100	.107	.316	.452	170	112	.113	.094	.173	.417	170	163	.101	.091	.215	.389
160	816	.098	.107	.319	.451	170	113	.078	.092	.301	.378	170	164	.092	.095	.304	.404
160	817	.101	.107	.310	.448	170	114	.063	.095	.456	.260	170	165	.081	.090	.244	.353
160	818	.160	.111	.251	.523	170	115	.073	.092	.238	.415	170	166	.090	.091	.224	.372
160	819	.123	.102	.196	.515	170	116	.110	.095	.177	.415	170	167	.097	.090	.208	.383
160	820	.106	.098	.178	.483	170	117	.098	.092	.218	.542	170	168	.100	.096	.181	.426
160	821	.110	.098	.200	.500	170	118	.071	.092	.236	.503	170	169	.097	.101	.205	.772
160	822	.172	.106	.149	.675	170	119	.109	.093	.170	.391	170	170	.081	.094	.194	.433
160	823	.144	.097	.250	.491	170	120	.056	.095	.367	.311	170	171	.086	.093	.179	.412
160	824	.103	.102	.293	.471	170	121	.076	.095	.294	.402	170	172	.088	.092	.274	.381
160	825	.103	.095	.224	.441	170	122	.097	.095	.191	.473	170	173	.081	.092	.277	.374
160	826	.131	.098	.201	.505	170	123	.116	.095	.236	.439	170	174	.078	.091	.278	.374
160	827	.119	.097	.245	.490	170	124	.206	.102	.102	.526	170	175	.094	.092	.273	.395
160	828	.111	.094	.235	.460	170	125	.089	.096	.257	.411	170	176	.097	.091	.211	.420
160	829	.108	.094	.249	.481	170	126	.057	.099	.411	.275	170	177	.087	.092	.226	.437
160	830	.135	.097	.207	.534	170	127	.095	.089	.189	.392	170	178	.085	.091	.228	.408
160	831	.112	.093	.262	.458	170	128	.110	.090	.182	.395	170	179	.103	.091	.201	.432
160	832	.102	.092	.276	.445	170	129	.089	.089	.212	.381	170	180	.096	.088	.194	.423
160	901	.098	.093	.211	.499	170	130	.119	.089	.187	.405	170	181	.087	.086	.175	.369
160	902	.097	.091	.233	.403	170	131	.085	.089	.218	.385	170	182	.047	.086	.250	.365
160	903	.114	.092	.216	.410	170	132	.065	.092	.363	.225	170	183	.098	.085	.165	.422
160	904	.165	.101	.189	.560	170	133	.072	.093	.246	.431	170	184	.072	.087	.251	.356
160	905	.102	.097	.247	.449	170	134	.100	.092	.212	.452	170	185	.078	.086	.229	.363
160	907	.102	.097	.242	.445	170	135	.070	.092	.233	.413	170	186	.075	.085	.233	.348
160	908	.148	.099	.201	.534	170	136	.081	.096	.408	.264	170	187	.095	.087	.218	.376

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	188	.086	.095	.263	.374	170	245	.076	.094	.290	.373	170	350	.099	.095	.217	.497
170	189	.082	.095	.258	.374	170	301	.217	.111	.268	.593	170	351	.108	.075	.127	.391
170	190	.081	.090	.252	.367	170	302	.083	.103	.384	.441	170	352	.249	.098	.074	.619
170	191	.096	.095	.245	.387	170	303	.124	.121	.637	.508	170	353	.116	.097	.204	.442
170	192	.081	.091	.242	.404	170	304	.076	.118	.550	.525	170	354	.141	.095	.151	.490
170	193	.085	.090	.224	.403	170	305	.084	.112	.350	.593	170	355	.100	.093	.203	.447
170	201	.084	.095	.219	.426	170	306	.104	.107	.363	.500	170	356	.099	.093	.214	.459
170	202	.070	.096	.234	.410	170	307	.151	.102	.258	.486	170	357	.122	.094	.186	.491
170	203	.045	.099	.348	.315	170	308	.104	.105	.273	.447	170	358	.143	.096	.183	.507
170	204	.078	.089	.290	.391	170	309	.092	.103	.287	.464	170	359	.099	.092	.218	.435
170	205	.056	.089	.258	.377	170	310	.096	.090	.179	.362	170	361	.112	.095	.198	.471
170	206	.049	.093	.371	.301	170	311	.084	.094	.271	.441	170	362	.107	.096	.211	.434
170	207	.072	.095	.211	.446	170	312	.092	.098	.274	.414	170	363	.147	.094	.156	.506
170	208	.079	.095	.212	.426	170	313	.082	.093	.252	.448	170	364	.101	.092	.223	.419
170	209	.059	.093	.232	.362	170	314	.093	.097	.205	.405	170	365	.100	.092	.213	.431
170	210	.039	.098	.386	.298	170	315	.105	.096	.265	.466	170	366	.124	.093	.176	.461
170	211	.072	.089	.192	.400	170	316	.086	.100	.316	.428	170	367	.147	.091	.160	.463
170	212	.084	.098	.346	.391	170	317	.118	.120	.538	.478	170	368	.091	.089	.235	.405
170	213	.059	.098	.282	.362	170	318	.074	.116	.395	.620	170	369	.085	.089	.251	.433
170	214	.032	.100	.370	.283	170	319	.081	.110	.357	.484	170	370	.107	.093	.236	.439
170	215	.075	.096	.268	.403	170	320	.105	.106	.325	.500	170	372	.095	.091	.209	.387
170	216	.079	.097	.240	.446	170	321	.157	.106	.132	.604	170	373	.094	.089	.159	.416
170	217	.053	.095	.264	.414	170	322	.109	.102	.229	.547	170	374	.094	.090	.170	.411
170	218	.022	.099	.340	.320	170	323	.096	.099	.257	.570	170	375	.121	.093	.150	.437
170	219	.074	.100	.272	.387	170	324	.102	.099	.248	.541	170	376	.141	.094	.150	.449
170	220	.082	.094	.228	.439	170	325	.143	.103	.232	.607	170	377	.096	.091	.242	.409
170	221	.053	.091	.314	.383	170	326	.098	.100	.252	.410	170	378	.090	.090	.240	.387
170	222	.014	.094	.320	.330	170	327	.088	.094	.283	.395	170	379	.122	.092	.222	.411
170	223	.074	.094	.239	.406	170	328	.076	.092	.279	.398	170	380	.090	.090	.209	.379
170	224	.089	.098	.256	.418	170	329	.122	.088	.141	.488	170	381	.245	.105	.111	.597
170	225	.075	.098	.347	.395	170	330	.113	.092	.397	.449	170	382	.113	.091	.172	.487
170	226	.062	.098	.265	.391	170	331	.132	.093	.359	.496	170	383	.101	.092	.259	.413
170	227	.010	.101	.339	.359	170	332	.097	.088	.231	.392	170	384	.140	.095	.211	.448
170	228	.073	.091	.240	.416	170	333	.094	.087	.231	.385	170	385	.074	.084	.253	.370
170	229	.089	.095	.206	.414	170	334	.119	.088	.219	.385	170	386	.041	.086	.279	.345
170	230	.084	.096	.312	.406	170	335	.138	.090	.198	.419	170	387	.110	.088	.222	.417
170	231	.059	.096	.282	.389	170	336	.084	.083	.245	.399	170	388	.101	.090	.226	.433
170	232	.033	.100	.282	.363	170	337	.077	.083	.201	.364	170	389	.076	.096	.232	.376
170	233	.097	.096	.257	.451	170	338	.096	.087	.217	.390	170	390	.042	.097	.301	.352
170	234	.070	.082	.185	.442	170	339	.115	.089	.247	.427	170	391	.124	.090	.156	.480
170	235	.054	.091	.232	.447	170	340	.097	.088	.157	.396	170	392	.096	.094	.189	.407
170	236	.057	.080	.175	.415	170	341	.093	.089	.168	.400	170	393	.093	.096	.211	.413
170	237	.049	.094	.227	.397	170	342	.116	.090	.132	.433	170	394	.081	.095	.267	.378
170	238	.102	.090	.176	.429	170	343	.133	.092	.151	.454	170	395	.058	.093	.251	.353
170	239	.070	.090	.205	.402	170	344	.095	.089	.215	.454	170	396	.110	.096	.225	.405
170	240	.067	.091	.194	.429	170	345	.089	.089	.185	.435	170	397	.120	.096	.222	.426
170	241	.102	.082	.214	.454	170	346	.117	.089	.212	.433	170	398	.093	.099	.271	.409
170	242	.090	.088	.183	.442	170	347	.092	.082	.180	.409	170	399	.053	.097	.332	.376
170	243	.065	.089	.227	.378	170	348	.086	.092	.194	.452	170	400	.111	.100	.264	.452
170	244	.076	.094	.238	.408	170	349	.079	.091	.193	.454	170	401	.101	.088	.165	.457

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CP	MEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	402	091	145	092	2339	495	170	531	084	090	245	406	170	581	106	094	212	426
170	403	091	145	092	2351	394	170	532	088	090	232	404	170	582	095	091	215	422
170	404	091	145	092	3301	351	170	533	098	089	195	472	170	583	094	092	205	399
170	405	093	115	093	2225	429	170	534	104	089	196	495	170	801	123	108	303	333
170	406	094	159	094	190	476	170	535	084	086	210	423	170	802	158	112	214	397
170	407	093	111	090	215	401	170	536	090	095	244	392	170	903	118	103	283	304
170	408	091	111	091	185	423	170	537	085	088	211	452	170	804	109	101	257	300
170	409	094	112	094	210	429	170	538	088	091	194	439	170	805	116	105	281	379
170	410	094	165	094	151	485	170	539	103	089	154	466	170	806	154	114	236	557
170	411	090	088	090	198	381	170	540	095	090	187	462	170	907	126	126	359	821
170	412	089	037	089	2338	325	170	541	092	092	201	443	170	808	128	117	387	651
170	413	090	109	090	163	408	170	542	084	102	197	581	170	809	099	105	235	682
170	414	090	185	092	112	488	170	543	092	090	217	379	170	810	136	106	250	12
170	415	089	090	089	278	394	170	544	104	089	202	399	170	811	106	102	245	77
170	416	091	145	091	182	443	170	545	096	089	202	383	170	812	099	100	252	65
170	417	093	093	094	208	399	170	546	097	091	196	396	170	813	100	102	272	39
170	418	077	093	093	225	371	170	547	101	099	222	591	170	814	135	106	357	39
170	419	086	092	092	213	383	170	548	094	097	238	378	170	815	092	099	251	47
170	420	099	126	094	188	418	170	549	092	095	205	469	170	816	091	099	282	44
170	421	099	189	091	189	406	170	550	085	096	245	368	170	817	093	097	232	62
170	501	088	243	095	243	402	170	551	081	099	239	418	170	818	147	105	225	78
170	502	099	099	099	237	438	170	552	093	091	266	411	170	819	121	102	303	35
170	503	090	176	085	176	431	170	553	092	092	266	459	170	820	114	096	183	27
170	504	120	090	090	172	461	170	554	095	091	273	438	170	821	122	102	180	71
170	505	107	095	095	252	435	170	555	096	093	252	395	170	822	202	130	163	48
170	506	112	097	097	249	519	170	556	081	091	217	402	170	823	103	121	403	67
170	507	113	098	098	238	531	170	557	090	090	187	453	170	824	080	120	481	96
170	508	111	092	092	186	401	170	558	096	089	183	472	170	825	114	095	187	45
170	509	110	098	098	228	427	170	559	086	087	175	445	170	826	164	100	140	34
170	510	095	094	094	226	445	170	560	087	087	172	439	170	827	156	111	206	33
170	511	094	092	092	211	413	170	561	088	088	181	422	170	828	110	107	224	30
170	512	094	092	092	212	419	170	562	109	093	244	405	170	829	109	100	204	43
170	513	133	094	094	179	495	170	563	095	086	190	405	170	830	159	105	189	91
170	514	121	095	095	231	468	170	564	081	084	189	379	170	831	136	098	173	45
170	515	095	095	095	223	407	170	565	077	084	201	376	170	832	106	101	315	54
170	516	095	095	095	245	398	170	566	091	092	176	491	170	901	097	100	224	47
170	517	091	094	094	237	374	170	567	097	093	170	499	170	902	097	098	227	54
170	518	115	094	094	194	417	170	568	099	093	254	410	170	903	101	096	222	88
170	519	106	090	090	217	433	170	569	082	090	204	433	170	904	143	098	147	54
170	520	112	092	092	200	500	170	570	075	090	206	442	170	905	100	104	325	46
170	521	083	090	090	248	391	170	571	088	094	232	434	170	907	104	106	322	50
170	522	080	094	094	252	397	170	572	099	095	210	434	170	908	145	102	214	48
170	523	105	089	089	220	404	170	573	099	094	216	419	170	909	116	101	196	85
170	524	099	086	086	165	437	170	574	086	095	224	425	170	910	113	099	382	30
170	525	101	085	085	169	451	170	575	261	095	126	600	170	911	114	097	179	43
170	526	107	088	088	161	646	170	576	088	095	218	467	170	912	153	096	128	73
170	527	144	087	087	144	644	170	577	102	094	209	458	170	913	112	106	187	61
170	528	080	087	087	334	369	170	578	086	091	216	430	170	914	107	104	202	53
170	529	098	094	094	207	514	170	579	086	094	215	450	170	915	127	108	191	51
170	530	085	092	092	184	399	170	580	090	090	243	494	170	916	155	114	153	65

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	917	.114	.098	.326	.438	180	146	.095	.093	.199	.567	180	203	.091	.098	.247	.537
170	918	.082	.108	.469	.418	180	147	.104	.092	.197	.399	180	204	.080	.090	.225	.424
170	919	.107	.101	.437	.437	180	148	.083	.090	.212	.365	180	205	.072	.090	.243	.403
170	920	.191	.115	.307	.759	180	149	.121	.098	.171	.543	180	206	.084	.089	.215	.396
170	921	.139	.116	.376	.677	180	150	.144	.099	.168	.672	180	207	.087	.099	.264	.513
170	922	.091	.117	.338	.505	180	151	.091	.089	.237	.405	180	208	.072	.093	.243	.459
180	101	.096	.095	.222	.420	180	152	.114	.090	.222	.446	180	209	.063	.091	.229	.422
180	102	.103	.090	.228	.407	180	153	.072	.088	.246	.410	180	210	.073	.091	.258	.424
180	103	.097	.095	.222	.440	180	154	.096	.091	.231	.452	180	211	.090	.090	.191	.426
180	104	.083	.090	.183	.422	180	155	.055	.085	.241	.352	180	212	.073	.096	.243	.400
180	105	.086	.093	.241	.438	180	156	.106	.089	.192	.419	180	213	.065	.097	.251	.437
180	106	.087	.094	.184	.419	180	157	.077	.086	.205	.378	180	214	.077	.094	.226	.428
180	107	.088	.093	.205	.452	180	158	.140	.094	.181	.484	180	215	.083	.093	.229	.424
180	108	.085	.093	.204	.441	180	159	.094	.094	.246	.433	180	216	.073	.101	.284	.428
180	109	.092	.091	.203	.441	180	160	.107	.090	.230	.427	180	217	.059	.100	.289	.381
180	110	.102	.101	.223	.510	180	161	.272	.118	.106	.644	180	218	.059	.098	.249	.417
180	111	.104	.100	.227	.518	180	162	.109	.091	.232	.417	180	219	.081	.098	.223	.426
180	112	.098	.098	.165	.463	180	163	.096	.099	.230	.477	180	220	.078	.100	.234	.406
180	113	.086	.098	.266	.459	180	164	.080	.094	.299	.390	180	221	.055	.100	.258	.382
180	114	.085	.095	.254	.444	180	165	.109	.099	.208	.479	180	222	.060	.098	.259	.377
180	115	.088	.086	.203	.439	180	166	.111	.100	.228	.477	180	223	.077	.101	.229	.412
180	116	.109	.101	.202	.488	180	167	.126	.098	.195	.500	180	224	.072	.097	.264	.374
180	117	.093	.085	.198	.438	180	168	.097	.099	.201	.391	180	225	.061	.092	.246	.351
180	118	.086	.085	.203	.437	180	169	.097	.100	.230	.409	180	226	.050	.092	.244	.41
180	119	.108	.099	.168	.496	180	170	.069	.095	.219	.365	180	227	.052	.093	.252	.54
180	120	.107	.088	.197	.472	180	171	.093	.097	.219	.409	180	228	.073	.098	.216	.480
180	121	.087	.100	.251	.448	180	172	.060	.087	.208	.361	180	229	.078	.094	.263	.432
180	122	.088	.097	.197	.392	180	173	.100	.090	.183	.416	180	230	.056	.093	.271	.424
180	123	.103	.104	.236	.586	180	174	.070	.087	.193	.376	180	231	.053	.092	.290	.412
180	124	.070	.116	.070	.710	180	175	.106	.091	.167	.413	180	232	.063	.091	.260	.412
180	125	.099	.104	.234	.548	180	176	.063	.083	.275	.394	180	233	.061	.091	.317	.390
180	126	.110	.101	.237	.537	180	177	.117	.086	.177	.386	180	234	.053	.079	.238	.357
180	127	.081	.102	.235	.419	180	178	.093	.085	.189	.363	180	235	.051	.087	.243	.345
180	128	.105	.104	.201	.440	180	179	.109	.086	.230	.437	180	236	.049	.078	.193	.304
180	129	.111	.099	.225	.440	180	180	.073	.088	.255	.348	180	237	.053	.088	.267	.356
180	130	.114	.098	.217	.444	180	181	.115	.094	.241	.515	180	238	.083	.092	.242	.377
180	131	.104	.098	.236	.448	180	182	.041	.086	.292	.313	180	239	.054	.090	.276	.392
180	132	.105	.096	.243	.435	180	183	.117	.092	.236	.449	180	240	.043	.091	.281	.409
180	133	.083	.095	.233	.363	180	184	.063	.082	.242	.353	180	241	.087	.082	.200	.360
180	134	.081	.093	.218	.362	180	185	.099	.084	.218	.393	180	242	.079	.088	.250	.361
180	135	.070	.092	.218	.356	180	186	.063	.080	.240	.346	180	243	.055	.094	.254	.340
180	136	.088	.090	.201	.376	180	187	.056	.084	.216	.399	180	244	.040	.092	.284	.320
180	137	.074	.086	.194	.381	180	188	.054	.085	.209	.375	180	245	.061	.094	.302	.359
180	138	.153	.097	.145	.537	180	189	.099	.088	.176	.437	180	301	.283	.120	.497	.665
180	140	.142	.097	.154	.481	180	190	.067	.078	.171	.369	180	302	.092	.102	.296	.421
180	141	.067	.088	.274	.356	180	191	.093	.088	.188	.434	180	303	.104	.125	.404	.482
180	142	.094	.102	.202	.420	180	192	.049	.090	.240	.364	180	304	.065	.124	.550	.476
180	143	.150	.086	.255	.569	180	193	.104	.094	.191	.435	180	305	.050	.130	.543	.418
180	144	.081	.089	.266	.374	180	201	.113	.095	.198	.482	180	306	.050	.129	.558	.510
180	145	.148	.099	.266	.597	180	202	.082	.100	.268	.570	180	307	.082	.124	.428	.561

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	3308	100	.124	.463	-.663	180	3358	102	.102	.203	-.476	180	410	115	.086	.214	-.400
180	3309	106	.120	.310	-.612	180	3359	096	.096	.350	-.408	180	411	102	.091	.240	-.396
180	3310	109	.100	.254	-.459	180	3361	093	.093	.200	-.413	180	412	054	.090	.271	-.381
180	3311	093	.096	.228	-.597	180	3362	094	.094	.192	-.447	180	413	105	.093	.228	-.411
180	3312	121	.118	.296	-.678	180	3363	089	.089	.217	-.443	180	414	116	.093	.210	-.416
180	3313	095	.098	.181	-.491	180	3364	094	.094	.258	-.403	180	415	095	.085	.219	-.433
180	3314	104	.107	.231	-.502	180	3365	094	.094	.302	-.351	180	416	125	.087	.193	-.460
180	3315	106	.099	.196	-.543	180	3366	112	.112	.263	-.400	180	417	093	.085	.202	-.437
180	3316	106	.099	.256	-.404	180	3367	133	.133	.212	-.417	180	418	095	.085	.214	-.366
180	3317	112	.114	.417	-.516	180	3368	099	.099	.214	-.433	180	419	093	.084	.215	-.352
180	3318	053	.128	.558	-.471	180	3369	090	.090	.238	-.394	180	420	076	.083	.232	-.333
180	3319	050	.134	.692	-.456	180	3370	094	.094	.214	-.443	180	421	094	.098	.209	-.346
180	3320	056	.126	.585	-.543	180	3371	093	.093	.238	-.421	180	501	095	.094	.245	-.422
180	3321	096	.117	.322	-.590	180	3372	096	.096	.209	-.438	180	502	104	.094	.256	-.427
180	3322	098	.124	.406	-.519	180	3373	055	.055	.274	-.395	180	503	092	.093	.256	-.441
180	3323	101	.120	.283	-.625	180	3374	109	.101	.252	-.461	180	504	126	.098	.208	-.445
180	3324	105	.118	.275	-.561	180	3375	122	.101	.344	-.475	180	505	084	.090	.243	-.484
180	3325	140	.114	.264	-.611	180	3376	163	.096	.277	-.408	180	506	135	.092	.194	-.464
180	3326	110	.116	.334	-.522	180	3377	099	.099	.301	-.376	180	507	096	.089	.201	-.431
180	3327	088	.093	.233	-.454	180	3378	095	.095	.327	-.414	180	508	124	.094	.172	-.435
180	3328	091	.094	.156	-.541	180	3379	095	.095	.301	-.390	180	509	123	.091	.183	-.388
180	3329	093	.094	.240	-.458	180	3380	108	.108	.274	-.676	180	510	077	.089	.196	-.441
180	3330	111	.111	.235	-.443	180	3381	104	.097	.285	-.432	180	511	121	.091	.154	-.451
180	3331	094	.094	.236	-.468	180	3382	104	.096	.208	-.444	180	512	088	.086	.187	-.423
180	3332	094	.094	.271	-.468	180	3383	101	.095	.263	-.441	180	513	128	.089	.136	-.437
180	3333	092	.092	.365	-.412	180	3384	100	.092	.231	-.415	180	514	078	.091	.204	-.407
180	3334	096	.096	.412	-.527	180	3385	055	.055	.240	-.389	180	515	121	.091	.203	-.443
180	3335	097	.097	.527	-.427	180	3386	111	.096	.199	-.456	180	516	088	.092	.249	-.409
180	3336	097	.097	.447	-.526	180	3387	120	.096	.179	-.454	180	517	084	.087	.224	-.372
180	3337	094	.094	.302	-.470	180	3388	103	.093	.280	-.397	180	518	117	.091	.187	-.439
180	3338	097	.097	.262	-.471	180	3389	094	.094	.346	-.320	180	519	070	.094	.243	-.381
180	3339	098	.098	.228	-.473	180	3390	123	.097	.241	-.440	180	520	123	.098	.194	-.440
180	3340	102	.089	.163	-.458	180	3391	105	.096	.259	-.390	180	521	085	.096	.237	-.389
180	3341	066	.088	.204	-.411	180	3392	122	.097	.244	-.414	180	522	075	.090	.259	-.392
180	3342	108	.090	.158	-.461	180	3393	109	.096	.236	-.422	180	523	113	.098	.230	-.410
180	3343	093	.093	.151	-.488	180	3394	066	.066	.262	-.368	180	524	075	.097	.243	-.461
180	3344	099	.099	.329	-.445	180	3395	111	.096	.205	-.440	180	525	124	.100	.206	-.529
180	3345	096	.096	.364	-.372	180	3396	124	.093	.213	-.433	180	526	086	.096	.217	-.467
180	3346	107	.099	.345	-.560	180	3397	099	.094	.237	-.396	180	527	118	.099	.197	-.516
180	3347	111	.098	.304	-.518	180	3398	053	.091	.302	-.341	180	528	086	.090	.243	-.432
180	3348	082	.098	.357	-.449	180	4000	105	.095	.256	-.422	180	529	099	.089	.163	-.436
180	3349	041	.095	.415	-.376	180	4001	109	.094	.249	-.397	180	530	121	.097	.203	-.448
180	3350	083	.099	.262	-.405	180	4002	116	.095	.252	-.434	180	531	095	.096	.239	-.422
180	3351	101	.083	.129	-.456	180	4003	101	.094	.287	-.444	180	532	106	.095	.210	-.435
180	3352	095	.113	.057	-.770	180	4004	055	.092	.318	-.376	180	533	100	.095	.282	-.419
180	3353	094	.094	.193	-.465	180	4005	101	.094	.279	-.439	180	534	121	.096	.263	-.438
180	3354	092	.092	.202	-.460	180	4006	114	.094	.267	-.448	180	535	100	.100	.283	-.544
180	3355	098	.098	.223	-.432	180	4007	102	.088	.236	-.362	180	536	094	.087	.181	-.391
180	3356	096	.096	.266	-.393	180	4008	122	.098	.199	-.467	180	537	107	.098	.271	-.478
180	3357	100	.100	.231	-.507	180	4009	088	.088	.221	-.390	180	538	096	.095	.313	-.402

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	5539	.119	.093	.269	.409	180	806	.125	.120	.288	.569	190	103	.076	.087	.177	.486
180	5540	.097	.093	.251	.396	180	807	.092	.125	.464	.592	190	104	.089	.084	.159	.470
180	5541	.110	.096	.311	.454	180	808	.084	.123	.494	.474	190	105	.097	.090	.150	.524
180	5542	.110	.100	.347	.617	180	809	.074	.118	.390	.535	190	106	.076	.094	.229	.399
180	5543	.099	.089	.221	.471	180	810	.090	.114	.357	.552	190	107	.078	.094	.224	.402
180	5544	.113	.091	.226	.538	180	811	.084	.118	.493	.456	190	108	.074	.093	.216	.393
180	5545	.091	.089	.236	.511	180	812	.087	.114	.435	.469	190	109	.105	.096	.192	.438
180	5546	.110	.089	.207	.525	180	813	.085	.117	.411	.485	190	110	.081	.088	.279	.368
180	5547	.093	.094	.219	.428	180	814	.096	.117	.378	.506	190	111	.082	.089	.276	.374
180	5548	.118	.096	.206	.439	180	815	.081	.123	.558	.517	190	112	.093	.098	.332	.407
180	5549	.092	.090	.170	.433	180	816	.076	.123	.627	.502	190	113	.077	.088	.246	.364
180	5550	.086	.092	.230	.369	180	817	.078	.121	.523	.555	190	114	.104	.090	.233	.412
180	5551	.114	.093	.212	.435	180	818	.088	.143	.255	.824	190	115	.068	.092	.255	.416
180	5552	.092	.099	.234	.441	180	819	.123	.125	.169	.678	190	116	.066	.096	.342	.399
180	5553	.116	.099	.252	.441	180	820	.123	.105	.255	.457	190	117	.075	.093	.241	.411
180	5554	.094	.093	.250	.415	180	821	.136	.111	.292	.574	190	118	.071	.092	.244	.403
180	5555	.127	.100	.219	.449	180	822	.136	.136	.269	.377	190	119	.074	.098	.347	.399
180	5556	.087	.088	.246	.426	180	823	.056	.136	.630	.816	190	120	.100	.093	.223	.432
180	5557	.115	.089	.243	.460	180	824	.122	.104	.212	.477	190	121	.080	.087	.199	.355
180	5558	.091	.087	.257	.423	180	825	.147	.106	.194	.569	190	122	.077	.086	.261	.404
180	5559	.132	.089	.202	.461	180	826	.149	.116	.184	.659	190	123	.055	.092	.334	.454
180	5560	.089	.100	.240	.443	180	827	.116	.118	.181	.643	190	124	.072	.086	.205	.382
180	5561	.108	.099	.230	.415	180	828	.116	.101	.203	.430	190	125	.110	.087	.168	.400
180	5562	.108	.095	.233	.433	180	829	.138	.103	.188	.533	190	126	.089	.095	.208	.386
180	5563	.106	.095	.201	.400	180	830	.140	.115	.215	.633	190	127	.073	.094	.235	.374
180	5564	.137	.093	.160	.441	180	831	.116	.116	.298	.574	190	128	.084	.094	.247	.447
180	5565	.087	.093	.195	.420	180	901	.109	.104	.272	.568	190	129	.085	.095	.240	.448
180	5566	.098	.095	.180	.451	180	902	.116	.102	.244	.663	190	130	.079	.095	.248	.461
180	5567	.095	.091	.229	.396	180	903	.105	.101	.273	.488	190	131	.115	.096	.229	.511
180	5568	.088	.094	.241	.434	180	904	.093	.100	.248	.439	190	132	.076	.087	.194	.414
180	5569	.123	.091	.202	.470	180	905	.110	.110	.253	.451	190	133	.072	.086	.203	.402
180	5570	.081	.090	.228	.404	180	906	.118	.109	.248	.438	190	134	.067	.085	.198	.416
180	5571	.117	.094	.183	.441	180	907	.108	.109	.241	.514	190	135	.107	.088	.162	.466
180	5572	.088	.091	.193	.414	180	908	.112	.104	.261	.541	190	136	.062	.093	.257	.387
180	5573	.121	.091	.181	.454	180	909	.131	.101	.214	.585	190	137	.114	.098	.190	.448
180	5574	.111	.106	.211	.618	180	910	.126	.099	.238	.506	190	138	.083	.094	.211	.405
180	5575	.080	.098	.229	.468	180	911	.094	.111	.235	.457	190	140	.059	.083	.224	.451
180	5576	.109	.097	.208	.463	180	912	.113	.111	.195	.673	190	141	.078	.095	.227	.395
180	5577	.088	.094	.230	.427	180	913	.130	.113	.270	.576	190	142	.110	.090	.205	.457
180	5578	.124	.096	.187	.477	180	914	.133	.108	.233	.577	190	143	.071	.084	.207	.388
180	5579	.088	.088	.186	.400	180	915	.154	.110	.318	.588	190	144	.092	.087	.198	.423
180	5580	.107	.090	.174	.429	180	916	.118	.101	.226	.453	190	145	.070	.097	.263	.409
180	5581	.099	.089	.197	.408	180	917	.105	.108	.455	.466	190	146	.088	.096	.266	.428
180	5582	.126	.089	.164	.441	180	918	.108	.108	.239	.428	190	147	.101	.094	.287	.415
180	5583	.091	.122	.400	.649	180	919	.134	.105	.196	.710	190	148	.092	.098	.210	.430
180	8001	.132	.110	.326	.828	180	920	.066	.132	.299	.574	190	149	.077	.096	.225	.420
180	8002	.130	.118	.244	.733	180	921	.077	.117	.180	.468	190	150	.105	.087	.203	.365
180	8003	.112	.112	.277	.595	180	922	.095	.092	.180	.468	190	151	.069	.083	.189	.406
180	8004	.124	.114	.217	.538	190	101	.088	.088	.254	.383	190	152	.069	.083	.212	.376
180	8005	.124	.114	.217	.538	190	102	.095	.095	.254	.383	190	153	.069	.083	.212	.376

APPENDIX A -- PRESSURE DATA

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	154	.079	.082	.196	.389	190	211	.075	.088	.257	.400	190	316	.040	.093	.313	.360
190	155	.051	.090	.207	.404	190	212	.100	.094	.218	.495	190	317	.102	.122	.474	.535
190	156	.096	.093	.175	.454	190	213	.078	.092	.304	.393	190	318	.019	.117	.640	.337
190	157	.068	.091	.197	.421	190	214	.103	.090	.203	.425	190	319	.006	.120	.617	.324
190	158	.114	.093	.178	.487	190	215	.079	.093	.222	.378	190	320	.012	.124	.595	.341
190	159	.081	.092	.249	.400	190	216	.096	.096	.198	.450	190	321	.086	.123	.465	.416
190	160	.099	.089	.211	.447	190	217	.073	.093	.235	.376	190	322	.068	.109	.344	.443
190	161	.078	.091	.224	.361	190	218	.101	.094	.207	.417	190	323	.087	.100	.247	.451
190	162	.081	.086	.223	.425	190	219	.084	.091	.194	.423	190	324	.102	.098	.302	.530
190	163	.080	.092	.228	.386	190	220	.091	.097	.197	.524	190	325	.179	.101	.142	.574
190	164	.082	.092	.228	.469	190	221	.068	.098	.222	.424	190	326	.121	.101	.259	.457
190	165	.095	.092	.223	.390	190	222	.102	.098	.179	.428	190	327	.098	.088	.280	.485
190	166	.096	.093	.222	.403	190	223	.085	.093	.209	.407	190	328	.053	.089	.237	.422
190	167	.109	.090	.190	.400	190	224	.071	.091	.222	.415	190	329	.064	.088	.285	.325
190	168	.093	.098	.248	.601	190	225	.065	.091	.216	.426	190	330	.064	.095	.385	.431
190	169	.096	.090	.268	.415	190	226	.061	.088	.220	.369	190	331	.063	.101	.371	.406
190	170	.089	.093	.222	.485	190	227	.099	.092	.203	.428	190	332	.047	.100	.324	.381
190	171	.089	.093	.221	.452	190	228	.082	.095	.187	.429	190	333	.006	.094	.375	.302
190	172	.053	.091	.227	.375	190	229	.091	.096	.270	.388	190	334	.060	.098	.302	.370
190	173	.087	.092	.247	.436	190	230	.061	.099	.269	.373	190	335	.060	.100	.301	.423
190	174	.059	.090	.234	.431	190	231	.062	.098	.265	.379	190	336	.076	.098	.258	.442
190	175	.079	.090	.219	.458	190	232	.104	.100	.285	.428	190	337	.025	.091	.292	.333
190	176	.049	.092	.248	.312	190	233	.043	.094	.199	.510	190	338	.102	.095	.231	.453
190	177	.118	.098	.199	.460	190	234	.058	.082	.239	.352	190	339	.133	.098	.180	.525
190	178	.092	.095	.221	.477	190	235	.055	.093	.293	.415	190	340	.087	.097	.220	.412
190	179	.084	.092	.208	.347	190	236	.055	.082	.234	.408	190	341	.023	.093	.277	.334
190	180	.133	.092	.232	.389	190	237	.095	.095	.223	.495	190	342	.080	.098	.267	.403
190	181	.137	.103	.183	.597	190	238	.044	.090	.217	.430	190	343	.090	.102	.262	.390
190	182	.040	.091	.289	.376	190	239	.050	.091	.265	.415	190	344	.060	.105	.395	.409
190	183	.126	.100	.181	.616	190	240	.043	.090	.245	.424	190	345	.091	.102	.470	.328
190	184	.086	.092	.259	.385	190	241	.053	.078	.234	.337	190	346	.064	.109	.404	.422
190	185	.100	.088	.234	.411	190	242	.054	.094	.268	.352	190	347	.088	.109	.322	.470
190	186	.063	.084	.252	.364	190	243	.044	.089	.282	.344	190	348	.079	.093	.256	.450
190	187	.084	.085	.237	.386	190	244	.071	.091	.244	.394	190	349	.024	.087	.310	.383
190	188	.049	.092	.254	.368	190	245	.051	.092	.301	.413	190	350	.108	.094	.219	.445
190	189	.091	.099	.219	.326	190	246	.087	.102	.310	.491	190	351	.071	.079	.187	.310
190	190	.064	.086	.206	.333	190	247	.044	.099	.361	.329	190	352	.119	.088	.188	.423
190	191	.092	.092	.220	.399	190	248	.082	.126	.424	.481	190	353	.091	.093	.345	.464
190	192	.041	.086	.311	.310	190	249	.011	.126	.637	.389	190	354	.104	.094	.309	.422
190	193	.091	.089	.260	.366	190	250	.061	.129	.753	.396	190	355	.089	.092	.347	.441
190	201	.110	.099	.234	.465	190	306	.067	.132	.665	.418	190	356	.023	.089	.325	.377
190	202	.081	.091	.246	.448	190	307	.079	.134	.678	.497	190	357	.090	.096	.296	.422
190	203	.109	.092	.201	.434	190	308	.065	.114	.535	.451	190	358	.105	.099	.290	.453
190	204	.100	.092	.236	.471	190	309	.085	.108	.427	.579	190	359	.077	.099	.284	.413
190	205	.092	.091	.230	.461	190	310	.096	.089	.219	.533	190	361	.094	.097	.224	.417
190	206	.104	.091	.260	.456	190	311	.087	.099	.270	.441	190	362	.068	.093	.237	.423
190	207	.091	.091	.260	.374	190	312	.117	.107	.246	.486	190	363	.118	.096	.180	.404
190	208	.110	.103	.216	.602	190	313	.085	.099	.282	.441	190	364	.099	.098	.219	.465
190	209	.076	.094	.227	.399	190	314	.092	.100	.270	.443	190	365	.034	.094	.252	.388
190	210	.099	.094	.211	.390	190	315	.089	.095	.330	.412	190	366	.102	.100	.201	.435

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	367	.114	.101	209	.480	190	418	.082	.088	235	.405	190	547	.080	.098	253	.432
190	368	.091	.093	222	.471	190	419	.068	.087	248	.391	190	548	.093	.097	228	.421
190	369	.014	.088	228	.471	190	420	.083	.090	241	.421	190	549	.071	.093	254	.371
190	370	.093	.092	228	.444	190	421	.054	.089	284	.339	190	550	.066	.093	269	.389
190	372	.067	.087	344	.444	190	422	.094	.090	196	.490	190	551	.053	.098	269	.404
190	373	.095	.085	199	.344	190	423	.109	.091	192	.440	190	552	.084	.086	182	.354
190	374	.030	.083	268	.344	190	424	.085	.091	188	.578	190	553	.119	.088	164	.385
190	375	.105	.089	199	.388	190	425	.114	.094	234	.408	190	554	.085	.086	189	.348
190	376	.121	.092	193	.401	190	426	.082	.094	265	.472	190	555	.078	.093	322	.366
190	377	.092	.099	241	.388	190	427	.145	.098	219	.562	190	556	.039	.088	241	.322
190	377	.011	.094	226	.444	190	428	.114	.098	245	.570	190	557	.067	.093	271	.402
190	378	.082	.099	202	.444	190	429	.108	.093	216	.448	190	558	.103	.095	220	.471
190	380	.067	.083	268	.388	190	430	.075	.087	216	.366	190	559	.075	.093	268	.419
190	381	.134	.090	158	.388	190	431	.074	.086	203	.406	190	560	.042	.096	315	.409
190	382	.097	.095	198	.388	190	432	.125	.087	184	.433	190	561	.065	.094	246	.414
190	383	.083	.091	231	.388	190	433	.090	.085	173	.433	190	562	.044	.092	324	.338
190	384	.121	.096	188	.388	190	434	.127	.088	144	.444	190	563	.105	.094	185	.459
190	385	.104	.094	232	.388	190	435	.093	.092	230	.450	190	564	.075	.092	239	.426
190	386	.032	.092	278	.314	190	436	.113	.094	189	.441	190	565	.046	.095	222	.414
190	387	.109	.096	214	.465	190	437	.077	.087	213	.408	190	566	.073	.099	272	.418
190	388	.119	.098	194	.465	190	438	.075	.091	250	.409	190	567	.107	.093	224	.449
190	389	.095	.105	200	.388	190	439	.098	.089	230	.405	190	568	.068	.093	233	.393
190	390	.013	.099	270	.388	190	440	.071	.095	339	.498	190	569	.068	.089	255	.429
190	391	.072	.091	213	.444	190	441	.142	.106	301	.524	190	570	.033	.089	299	.385
190	392	.113	.096	209	.444	190	442	.074	.091	337	.376	190	571	.075	.090	208	.413
190	393	.128	.099	226	.444	190	443	.064	.085	335	.385	190	572	.112	.093	180	.456
190	394	.107	.091	252	.444	190	444	.101	.090	333	.400	190	573	.076	.090	211	.411
190	395	.030	.085	299	.351	190	445	.066	.094	233	.369	190	574	.037	.093	268	.380
190	396	.105	.092	280	.483	190	446	.123	.097	170	.433	190	575	.179	.090	169	.483
190	397	.109	.092	238	.465	190	447	.109	.102	201	.517	190	576	.068	.091	249	.391
190	398	.083	.091	332	.487	190	448	.128	.098	167	.491	190	577	.113	.092	214	.447
190	399	.010	.091	295	.388	190	449	.073	.088	246	.393	190	578	.078	.088	245	.395
190	400	.096	.095	222	.374	190	450	.085	.091	225	.443	190	579	.029	.092	313	.368
190	401	.077	.091	196	.374	190	451	.093	.088	214	.446	190	580	.072	.087	297	.348
190	402	.127	.094	213	.477	190	452	.074	.099	280	.427	190	581	.104	.092	287	.401
190	403	.103	.083	189	.394	190	453	.075	.099	267	.444	190	582	.078	.090	298	.368
190	404	.027	.080	232	.311	190	454	.097	.091	206	.397	190	583	.020	.093	366	.313
190	405	.102	.083	185	.434	190	455	.130	.095	185	.557	190	801	.080	.109	344	.474
190	406	.111	.084	183	.427	190	456	.067	.089	226	.366	190	802	.177	.106	288	.584
190	407	.084	.092	200	.393	190	457	.066	.086	230	.350	190	803	.117	.100	237	.474
190	408	.095	.100	259	.475	190	458	.061	.091	233	.362	190	804	.104	.096	205	.457
190	409	.103	.090	189	.419	190	459	.077	.090	254	.442	190	805	.123	.102	176	.480
190	410	.121	.090	167	.388	190	460	.111	.089	214	.462	190	806	.168	.114	204	.642
190	411	.097	.089	250	.388	190	461	.081	.092	228	.405	190	807	.075	.118	425	.507
190	412	.018	.086	318	.388	190	462	.054	.090	282	.454	190	808	.060	.120	669	.546
190	413	.091	.092	267	.393	190	463	.169	.082	130	.441	190	809	.057	.112	371	.435
190	414	.096	.094	255	.394	190	464	.071	.090	240	.363	190	810	.129	.114	255	.514
190	415	.088	.089	169	.420	190	465	.105	.092	219	.429	190	811	.080	.104	244	.420
190	416	.127	.086	192	.505	190	466	.076	.092	234	.375	190	812	.080	.101	252	.429
190	417	.086	.088	233	.414	190	467	.060	.095	249	.378	190	813	.076	.105	259	.420

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
1900	814	134	111	333	495	200	111	072	094	250	444	200	162	068	091	286	355
1900	815	064	107	290	490	200	112	095	102	254	446	200	163	078	089	288	417
1900	816	059	107	302	365	200	113	076	094	245	445	200	164	107	090	216	383
1900	817	066	106	302	417	200	114	141	099	185	523	200	165	121	090	249	535
1900	818	239	124	168	993	200	115	094	089	167	396	200	166	085	089	279	425
1900	819	161	110	274	993	200	116	076	099	286	448	200	167	063	086	298	393
1900	820	119	100	202	993	200	117	097	089	187	392	200	168	082	085	266	361
1900	821	163	116	193	993	200	118	099	089	185	404	200	169	091	090	165	383
1900	822	313	195	176	993	200	119	076	101	257	422	200	170	080	086	269	368
1900	823	108	121	290	993	200	120	131	094	154	449	200	171	053	083	296	335
1900	824	024	124	689	993	200	121	106	094	209	420	200	172	065	094	266	409
1900	825	117	101	208	993	200	122	104	088	172	393	200	173	103	096	229	454
1900	826	217	116	129	993	200	123	074	092	207	396	200	174	075	094	220	418
1900	827	182	117	207	993	200	124	286	118	150	715	200	175	057	093	234	403
1900	828	151	105	440	993	200	125	077	092	205	395	200	176	071	092	229	406
1900	829	109	098	289	993	200	126	136	096	161	474	200	177	118	094	169	449
1900	830	199	106	223	993	200	127	112	094	191	433	200	178	088	091	209	423
1900	831	180	110	210	993	200	128	083	091	222	384	200	179	045	089	247	349
1900	832	119	108	307	993	200	129	082	094	222	400	200	180	068	084	201	390
1900	901	105	105	311	993	200	130	065	093	261	369	200	181	117	090	164	465
1900	902	093	103	353	993	200	131	073	092	248	372	200	182	045	084	211	373
1900	903	088	104	337	993	200	132	132	096	195	447	200	183	065	087	209	430
1900	904	142	109	335	993	200	133	077	097	244	382	200	184	074	100	243	401
1900	905	101	103	334	993	200	134	071	096	239	379	200	185	092	099	200	398
1900	907	107	103	328	993	200	135	090	096	235	388	200	186	063	096	221	351
1900	908	146	104	197	993	200	136	155	101	189	463	200	187	043	092	245	330
1900	909	108	106	311	993	200	137	092	097	189	414	200	188	067	092	246	382
1900	910	126	107	211	993	200	138	099	097	200	445	200	189	105	094	219	431
1900	911	135	101	205	993	200	140	054	092	220	359	200	190	080	086	219	379
1900	912	170	103	172	993	200	141	095	093	200	456	200	191	053	090	243	367
1900	913	145	107	228	993	200	142	104	092	218	422	200	192	060	092	232	358
1900	914	129	110	224	993	200	143	105	096	216	487	200	193	096	094	210	411
1900	915	147	111	173	993	200	144	101	094	200	464	200	201	134	094	190	441
1900	916	207	113	169	993	200	145	062	092	249	427	200	202	082	092	206	402
1900	917	112	102	199	993	200	146	069	093	366	370	200	203	176	096	166	491
1900	918	082	120	387	993	200	147	111	095	251	424	200	204	097	093	269	402
1900	919	092	110	275	993	200	148	095	096	220	412	200	205	089	094	297	398
1900	920	207	121	248	993	200	149	080	095	222	401	200	206	135	099	264	459
1900	921	119	114	271	993	200	150	056	091	220	357	200	207	085	093	205	412
1900	922	038	107	426	993	200	151	074	091	227	375	200	208	101	090	255	509
2000	101	081	096	275	993	200	152	097	093	263	403	200	209	087	093	285	482
2000	102	076	089	249	993	200	153	074	091	263	378	200	210	135	098	255	513
2000	103	073	095	272	993	200	154	054	089	278	359	200	211	085	095	254	377
2000	104	075	092	260	993	200	155	080	088	226	400	200	212	090	095	222	415
2000	105	137	100	445	993	200	156	120	095	202	502	200	213	081	096	305	409
2000	106	091	099	203	993	200	157	101	095	225	481	200	214	127	096	172	438
2000	107	088	098	210	993	200	158	057	089	227	351	200	215	084	095	311	452
2000	108	093	097	205	993	200	159	075	096	242	355	200	216	099	098	261	595
2000	109	153	102	161	993	200	160	115	094	242	411	200	217	085	090	250	417
2000	110	083	094	235	993	200	161	291	108	274	685	200	218	128	097	226	442

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2000	219	.078	.095	2235	44	2000	376	.144	.094	187	479	2000	376	.144	.094	145	470
2000	220	.102	.096	2210	44	2000	377	.113	.100	183	479	2000	377	.113	.100	237	435
2000	221	.086	.095	2228	44	2000	378	.022	.093	182	479	2000	378	.022	.093	315	360
2000	222	.133	.099	2211	44	2000	379	.114	.100	194	479	2000	379	.114	.100	236	442
2000	223	.086	.094	2276	44	2000	380	.080	.092	194	479	2000	380	.080	.092	257	434
2000	224	.101	.094	2239	44	2000	381	.198	.099	331	441	2000	381	.198	.099	204	434
2000	225	.089	.091	2233	44	2000	382	.084	.113	321	460	2000	382	.084	.113	270	466
2000	226	.082	.089	2155	44	2000	383	.070	.094	339	488	2000	383	.070	.094	312	397
2000	227	.130	.095	1775	44	2000	384	.124	.103	333	468	2000	384	.124	.103	226	455
2000	228	.085	.096	2445	44	2000	385	.127	.097	333	465	2000	385	.127	.097	172	480
2000	229	.084	.089	1933	44	2000	386	.042	.092	333	452	2000	386	.042	.092	207	374
2000	230	.103	.090	2212	44	2000	387	.140	.099	333	451	2000	387	.140	.099	207	502
2000	231	.071	.090	2322	44	2000	388	.154	.102	333	452	2000	388	.154	.102	189	510
2000	232	.117	.094	189	44	2000	389	.125	.096	333	455	2000	389	.125	.096	261	448
2000	233	.131	.108	263	44	2000	390	.042	.088	28	393	2000	390	.042	.088	395	326
2000	234	.097	.082	159	44	2000	391	.121	.111	210	433	2000	391	.121	.111	326	439
2000	235	.088	.093	198	44	2000	392	.140	.099	377	471	2000	392	.140	.099	199	439
2000	236	.076	.078	182	44	2000	393	.129	.099	377	425	2000	393	.129	.099	182	483
2000	237	.124	.094	184	44	2000	394	.138	.096	377	401	2000	394	.138	.096	220	499
2000	238	.078	.103	83	44	2000	395	.133	.096	377	437	2000	395	.133	.096	242	374
2000	239	.062	.103	88	44	2000	396	.138	.097	377	392	2000	396	.138	.097	180	485
2000	240	.050	.104	320	44	2000	397	.115	.097	444	392	2000	397	.115	.097	187	474
2000	241	.052	.076	172	44	2000	398	.022	.100	444	501	2000	398	.022	.100	253	473
2000	242	.067	.089	242	44	2000	399	.065	.104	444	498	2000	399	.065	.104	449	311
2000	243	.057	.103	225	44	2000	400	.068	.104	444	449	2000	400	.068	.104	359	445
2000	244	.089	.106	209	44	2000	401	.068	.115	444	457	2000	401	.068	.115	347	473
2000	245	.060	.090	254	44	2000	402	.150	.097	244	457	2000	402	.150	.097	205	535
2000	301	.253	.124	95	44	2000	403	.130	.089	164	314	2000	403	.130	.089	158	475
2000	302	.052	.106	80	44	2000	404	.027	.083	161	633	2000	404	.027	.083	250	281
2000	303	.113	.125	491	44	2000	405	.125	.090	179	443	2000	405	.125	.090	162	386
2000	304	.036	.124	579	44	2000	406	.136	.091	161	468	2000	406	.136	.091	173	402
2000	305	.028	.118	404	44	2000	407	.104	.093	161	408	2000	407	.104	.093	228	455
2000	306	.042	.112	460	44	2000	408	.143	.097	161	428	2000	408	.143	.097	153	472
2000	307	.128	.116	382	44	2000	409	.122	.093	161	428	2000	409	.122	.093	206	454
2000	308	.093	.104	338	44	2000	410	.162	.093	161	447	2000	410	.162	.093	161	511
2000	309	.100	.102	399	44	2000	411	.120	.088	161	439	2000	411	.120	.088	171	402
2000	310	.104	.087	202	44	2000	412	.020	.083	174	433	2000	412	.020	.083	247	273
2000	311	.047	.087	67	44	2000	413	.107	.089	32	422	2000	413	.107	.089	170	391
2000	312	.105	.098	197	44	2000	414	.107	.092	157	443	2000	414	.107	.092	187	393
2000	313	.093	.094	198	44	2000	415	.101	.097	155	441	2000	415	.101	.097	235	448
2000	314	.082	.096	210	44	2000	416	.164	.084	30	312	2000	416	.164	.084	110	432
2000	315	.109	.108	403	44	2000	417	.110	.093	30	431	2000	417	.110	.093	200	449
2000	316	.053	.096	273	44	2000	418	.097	.094	30	431	2000	418	.097	.094	242	415
2000	317	.125	.117	546	44	2000	419	.079	.091	37	386	2000	419	.079	.091	230	410
2000	318	.035	.115	359	44	2000	420	.106	.094	111	284	2000	420	.106	.094	211	441
2000	319	.028	.112	500	44	2000	421	.070	.102	189	387	2000	421	.070	.102	218	455
2000	320	.041	.107	161	44	2000	501	.106	.093	390	384	2000	501	.106	.093	345	451
2000	321	.129	.108	21	44	2000	502	.128	.099	175	399	2000	502	.128	.099	216	430
2000	322	.093	.100	334	44	2000	503	.100	.099	18	302	2000	503	.100	.099	193	420
2000	323	.102	.096	97	44	2000	504	.077	.092	158	469	2000	504	.077	.092	268	432

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2000	505	096	096	211	559	2000	822	212	139	119	102	2000	822	212	139	119	102
2000	506	146	102	177	556	2000	823	107	113	369	769	2000	823	107	113	369	769
2000	507	077	096	213	555	2000	824	053	122	618	451	2000	824	053	122	618	451
2000	508	090	090	213	413	2000	825	106	088	148	411	2000	825	106	088	148	411
2000	509	094	094	213	374	2000	826	190	096	105	495	2000	826	190	096	105	495
2000	510	091	094	213	398	2000	827	127	109	211	468	2000	827	127	109	211	468
2000	511	125	094	213	444	2000	828	117	106	246	479	2000	828	117	106	246	479
2000	512	098	094	213	500	2000	829	100	102	185	425	2000	829	100	102	185	425
2000	513	094	092	213	656	2000	830	177	110	132	442	2000	830	177	110	132	442
2000	514	115	092	213	451	2000	831	125	103	175	569	2000	831	125	103	175	569
2000	515	119	088	213	437	2000	832	103	102	213	468	2000	832	103	102	213	468
2000	516	077	088	213	409	2000	901	109	099	215	477	2000	901	109	099	215	477
2000	517	086	088	213	405	2000	902	100	098	217	438	2000	902	100	098	217	438
2000	518	082	088	213	400	2000	903	090	098	205	465	2000	903	090	098	205	465
2000	519	084	084	213	444	2000	904	139	103	160	491	2000	904	139	103	160	491
2000	520	152	084	213	693	2000	905	109	103	330	485	2000	905	109	103	330	485
2000	521	077	088	213	426	2000	908	108	102	325	532	2000	908	108	102	325	532
2000	522	063	088	213	385	2000	909	162	107	270	425	2000	909	162	107	270	425
2000	523	055	088	213	427	2000	910	121	101	230	446	2000	910	121	101	230	446
2000	524	083	087	213	443	2000	911	109	097	198	416	2000	911	109	097	198	416
2000	525	126	089	213	420	2000	912	171	103	177	528	2000	912	171	103	177	528
2000	526	090	099	213	671	2000	913	118	097	250	552	2000	913	118	097	250	552
2000	527	099	094	213	444	2000	914	102	097	241	465	2000	914	102	097	241	465
2000	528	087	088	213	406	2000	915	113	095	245	544	2000	915	113	095	245	544
2000	529	087	087	213	400	2000	916	211	104	162	696	2000	916	211	104	162	696
2000	530	104	087	213	403	2000	917	107	099	194	498	2000	917	107	099	194	498
2000	531	084	088	213	403	2000	918	090	110	427	514	2000	918	090	110	427	514
2000	532	028	088	213	377	2000	919	107	107	272	527	2000	919	107	107	272	527
2000	533	107	099	213	594	2000	920	209	115	170	798	2000	920	209	115	170	798
2000	534	164	099	213	446	2000	921	134	119	251	819	2000	921	134	119	251	819
2000	535	073	099	213	374	2000	922	057	114	428	453	2000	922	057	114	428	453
2000	536	066	099	213	304	2000	101	061	098	303	427	2000	101	061	098	303	427
2000	537	089	097	213	404	2000	102	062	095	243	382	2000	102	062	095	243	382
2000	538	144	094	213	487	2000	103	088	099	270	445	2000	103	088	099	270	445
2000	539	094	097	213	406	2000	104	086	095	225	411	2000	104	086	095	225	411
2000	540	010	087	213	331	2000	105	244	098	088	610	2000	105	244	098	088	610
2000	541	089	089	213	404	2000	106	111	099	201	423	2000	106	111	099	201	423
2000	542	024	089	213	390	2000	107	158	097	139	464	2000	107	158	097	139	464
2000	543	138	089	213	494	2000	108	142	096	128	451	2000	108	142	096	128	451
2000	544	086	086	213	402	2000	109	296	100	004	626	2000	109	296	100	004	626
2000	545	030	086	213	318	2000	110	059	095	318	476	2000	110	059	095	318	476
2000	546	020	086	213	366	2000	111	085	096	310	510	2000	111	085	096	310	510
2000	547	062	086	213	444	2000	112	092	098	225	416	2000	112	092	098	225	416
2000	548	010	086	213	309	2000	113	080	095	309	454	2000	113	080	095	309	454
2000	549	076	086	213	434	2000	114	255	095	140	605	2000	114	255	095	140	605
2000	550	095	095	213	463	2000	115	114	091	185	403	2000	115	114	091	185	403
2000	551	044	095	213	414	2000	116	094	093	217	440	2000	116	094	093	217	440
2000	552	091	093	213	382	2000	117	164	094	169	562	2000	117	164	094	169	562
2000	553	146	093	213	451	2000	118	146	095	187	568	2000	118	146	095	187	568
2000	554	087	093	213	388	2000						2000					

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	119	071	097	235	333	210	170	070	086	197	370	210	227	181	100	163	509
210	120	223	093	241	333	210	171	042	085	240	318	210	228	079	089	279	409
210	121	138	101	241	333	210	172	073	090	239	399	210	229	082	097	228	409
210	122	158	104	187	498	210	173	127	093	188	434	210	230	093	099	256	460
210	123	083	100	251	498	210	174	076	091	214	392	210	231	077	100	279	416
210	124	307	113	074	888	210	175	071	104	247	614	210	232	167	102	181	507
210	125	062	098	273	466	210	176	165	120	196	653	210	233	160	094	184	484
210	126	222	099	105	666	210	177	107	092	219	405	210	234	088	085	187	336
210	127	162	101	158	777	210	178	065	088	235	350	210	235	097	097	235	407
210	128	110	099	220	888	210	179	083	100	247	489	210	236	080	083	213	345
210	129	064	093	240	444	210	180	131	112	193	559	210	237	164	096	188	469
210	130	094	093	209	333	210	181	106	105	220	487	210	238	086	093	244	408
210	131	071	092	237	666	210	182	077	104	233	410	210	239	092	099	225	417
210	132	242	094	077	888	210	183	027	100	336	386	210	240	074	099	253	400
210	133	087	096	228	222	210	184	060	088	233	348	210	241	040	079	202	287
210	134	138	097	192	444	210	185	105	092	193	399	210	242	081	099	245	371
210	135	146	100	173	444	210	186	073	087	205	377	210	243	077	093	241	437
210	136	317	104	016	777	210	187	031	088	259	337	210	244	128	093	204	494
210	137	151	102	263	888	210	188	071	091	222	428	210	245	078	092	230	361
210	138	054	102	349	444	210	189	111	094	200	482	210	301	222	128	380	627
210	140	054	096	345	888	210	190	075	084	180	431	210	302	086	124	456	475
210	141	159	099	204	333	210	191	021	092	206	381	210	303	183	138	434	614
210	142	175	104	136	333	210	192	063	088	206	411	210	304	078	133	705	582
210	143	102	096	316	444	210	193	106	092	174	473	210	305	066	129	663	570
210	144	169	100	192	333	210	201	080	097	277	426	210	306	077	119	487	670
210	145	050	092	358	333	210	202	075	096	05	452	210	307	174	119	243	555
210	146	059	087	190	333	210	203	211	096	074	605	210	308	134	103	273	503
210	147	176	097	114	555	210	204	120	103	201	503	210	309	135	103	227	518
210	148	158	098	130	333	210	205	092	102	239	455	210	310	136	086	196	457
210	149	072	098	332	444	210	206	216	104	165	611	210	311	131	102	233	611
210	150	044	087	197	333	210	207	066	096	207	436	210	312	118	100	202	516
210	151	062	086	257	333	210	208	125	090	209	444	210	313	077	089	208	363
210	152	109	090	214	333	210	209	092	088	206	407	210	314	082	092	249	482
210	153	079	087	218	333	210	210	208	090	172	470	210	315	127	107	381	558
210	154	064	088	236	444	210	211	072	100	363	439	210	316	080	113	395	449
210	155	122	097	186	444	210	212	104	089	236	415	210	317	198	122	421	713
210	156	217	107	102	777	210	213	087	089	218	354	210	318	088	128	523	464
210	157	186	105	133	555	210	214	198	087	121	521	210	319	075	124	437	442
210	158	042	088	227	444	210	215	078	089	207	412	210	320	082	115	305	512
210	159	063	092	333	333	210	216	110	093	208	535	210	321	183	113	197	607
210	160	207	108	106	666	210	217	091	092	209	499	210	322	130	109	200	530
210	161	358	123	041	888	210	218	198	095	111	555	210	323	131	107	202	515
210	162	141	103	174	888	210	219	075	090	206	393	210	324	130	105	198	537
210	163	063	093	288	333	210	220	107	090	220	395	210	325	208	109	142	634
210	164	165	104	166	333	210	221	084	089	251	392	210	326	117	104	249	507
210	165	216	111	156	444	210	222	189	091	177	511	210	327	112	098	206	488
210	166	067	093	375	888	210	223	081	094	209	411	210	328	009	086	268	317
210	167	034	091	297	333	210	224	080	096	233	430	210	329	055	095	314	431
210	168	065	084	202	333	210	225	102	099	211	440	210	330	094	121	383	541
210	169	091	103	252	333	210	226	097	097	207	457	210	331	102	128	464	667

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINDIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	384	144	106	187	509	210	384	144	106	187	509	210	384	144	106	187	509
210	385	140	98	200	492	210	385	140	98	200	492	210	385	140	98	200	492
210	386	149	89	284	372	210	386	149	89	284	372	210	386	149	89	284	372
210	387	161	97	177	506	210	387	161	97	177	506	210	387	161	97	177	506
210	388	174	102	175	548	210	388	174	102	175	548	210	388	174	102	175	548
210	389	174	102	156	443	210	389	174	102	156	443	210	389	174	102	156	443
210	390	140	98	271	329	210	390	140	98	271	329	210	390	140	98	271	329
210	391	154	107	348	483	210	391	154	107	348	483	210	391	154	107	348	483
210	392	142	99	159	415	210	392	142	99	159	415	210	392	142	99	159	415
210	393	159	107	156	464	210	393	159	107	156	464	210	393	159	107	156	464
210	394	141	99	215	486	210	394	141	99	215	486	210	394	141	99	215	486
210	395	142	99	291	352	210	395	142	99	291	352	210	395	142	99	291	352
210	396	151	103	228	503	210	396	151	103	228	503	210	396	151	103	228	503
210	397	153	105	234	491	210	397	153	105	234	491	210	397	153	105	234	491
210	398	112	83	229	419	210	398	112	83	229	419	210	398	112	83	229	419
210	399	101	77	355	307	210	399	101	77	355	307	210	399	101	77	355	307
210	400	124	100	244	457	210	400	124	100	244	457	210	400	124	100	244	457
210	401	111	81	317	495	210	401	111	81	317	495	210	401	111	81	317	495
210	402	152	109	161	478	210	402	152	109	161	478	210	402	152	109	161	478
210	403	135	99	137	486	210	403	135	99	137	486	210	403	135	99	137	486
210	404	133	98	224	356	210	404	133	98	224	356	210	404	133	98	224	356
210	405	144	102	118	506	210	405	144	102	118	506	210	405	144	102	118	506
210	406	138	103	163	524	210	406	138	103	163	524	210	406	138	103	163	524
210	407	114	86	238	471	210	407	114	86	238	471	210	407	114	86	238	471
210	408	142	100	224	352	210	408	142	100	224	352	210	408	142	100	224	352
210	409	142	100	217	534	210	409	142	100	217	534	210	409	142	100	217	534
210	410	157	106	221	522	210	410	157	106	221	522	210	410	157	106	221	522
210	411	130	96	165	516	210	411	130	96	165	516	210	411	130	96	165	516
210	412	123	96	250	358	210	412	123	96	250	358	210	412	123	96	250	358
210	413	124	96	200	525	210	413	124	96	200	525	210	413	124	96	200	525
210	414	117	81	190	555	210	414	117	81	190	555	210	414	117	81	190	555
210	415	130	93	155	409	210	415	130	93	155	409	210	415	130	93	155	409
210	416	168	122	154	524	210	416	168	122	154	524	210	416	168	122	154	524
210	417	116	83	188	411	210	417	116	83	188	411	210	417	116	83	188	411
210	418	120	94	216	427	210	418	120	94	216	427	210	418	120	94	216	427
210	419	155	109	217	396	210	419	155	109	217	396	210	419	155	109	217	396
210	420	123	95	184	460	210	420	123	95	184	460	210	420	123	95	184	460
210	421	122	93	242	441	210	421	122	93	242	441	210	421	122	93	242	441
210	501	145	107	237	465	210	501	145	107	237	465	210	501	145	107	237	465
210	502	162	100	138	520	210	502	162	100	138	520	210	502	162	100	138	520
210	503	122	89	197	443	210	503	122	89	197	443	210	503	122	89	197	443
210	504	168	122	228	388	210	504	168	122	228	388	210	504	168	122	228	388
210	505	143	103	224	491	210	505	143	103	224	491	210	505	143	103	224	491
210	506	169	106	242	378	210	506	169	106	242	378	210	506	169	106	242	378
210	507	145	106	303	427	210	507	145	106	303	427	210	507	145	106	303	427
210	508	160	103	205	374	210	508	160	103	205	374	210	508	160	103	205	374
210	509	144	99	250	427	210	509	144	99	250	427	210	509	144	99	250	427
210	510	142	99	237	489	210	510	142	99	237	489	210	510	142	99	237	489
210	511	114	83	188	478	210	511	114	83	188	478	210	511	114	83	188	478
210	512	114	83	188	478	210	512	114	83	188	478	210	512	114	83	188	478

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	563	.019	.093	270	353	210	830	202	108	148	657	220	127	211	101	095	534
210	564	.080	.091	200	410	210	831	144	104	207	513	220	128	135	098	176	495
210	565	.107	.091	166	432	210	832	148	113	302	565	220	129	093	101	227	464
210	566	.083	.092	212	433	210	901	143	101	265	487	220	130	091	100	227	460
210	567	.090	.092	224	433	210	902	133	102	261	507	220	131	094	100	242	471
210	568	.051	.096	277	370	210	903	115	108	284	836	220	132	183	102	153	552
210	569	.037	.092	254	343	210	904	140	109	327	539	220	133	122	096	226	443
210	570	.068	.089	184	359	210	905	136	101	239	487	220	134	146	097	235	512
210	571	.084	.085	207	359	210	907	131	101	229	501	220	135	193	100	139	532
210	572	.128	.090	170	433	210	908	189	114	235	668	220	136	286	108	072	710
210	573	.106	.087	202	419	210	909	110	096	284	456	220	137	198	111	151	695
210	574	.119	.087	171	420	210	910	138	092	201	457	220	138	115	097	224	466
210	575	.135	.112	267	513	210	911	130	090	198	431	220	140	020	087	285	339
210	576	.031	.097	285	382	210	912	186	097	188	515	220	141	194	110	141	570
210	577	.058	.094	261	405	210	913	142	102	205	478	220	142	232	114	099	744
210	578	.057	.093	263	400	210	914	133	106	215	570	220	143	122	102	245	453
210	579	.099	.093	213	444	210	915	131	095	212	429	220	144	210	114	145	698
210	580	.074	.092	227	411	210	916	251	115	102	627	220	145	027	093	311	337
210	581	.080	.093	271	417	210	917	135	104	192	506	220	146	081	094	195	404
210	582	.134	.097	267	493	210	918	137	112	323	507	220	147	225	108	087	644
210	583	.119	.095	277	461	210	919	151	112	277	755	220	148	215	111	112	902
210	801	.128	.118	352	590	210	920	234	120	260	896	220	149	091	093	256	429
210	802	.224	.116	163	617	210	921	171	132	744	859	220	150	031	089	213	328
210	803	.134	.106	220	600	210	922	102	135	681	553	220	151	089	092	209	441
210	804	.129	.102	282	518	220	101	089	098	223	398	220	152	135	095	193	473
210	805	.135	.108	313	640	220	102	086	097	249	338	220	153	110	093	198	420
210	806	.229	.121	241	758	220	103	090	098	256	394	220	154	060	090	225	403
210	807	.156	.118	479	625	220	104	112	094	193	427	220	155	188	111	147	626
210	808	.133	.113	243	544	220	105	208	098	086	543	220	156	292	125	099	750
210	809	.110	.107	209	518	220	106	150	100	190	588	220	157	270	125	118	817
210	810	.184	.112	192	634	220	107	170	103	180	461	220	158	039	088	231	324
210	811	.116	.116	336	534	220	108	179	105	156	520	220	159	086	088	244	401
210	812	.122	.116	267	518	220	109	263	110	094	655	220	160	281	125	156	872
210	813	.126	.121	285	510	220	110	085	104	290	523	220	161	385	132	052	940
210	814	.210	.130	283	654	220	111	081	104	326	528	220	162	196	116	212	784
210	815	.130	.115	355	527	220	112	116	099	200	444	220	163	092	094	189	374
210	816	.115	.114	321	490	220	113	106	103	312	501	220	164	228	126	133	694
210	817	.110	.110	336	469	220	114	202	105	231	727	220	165	285	119	036	687
210	818	.296	.143	095	144	220	115	147	097	119	442	220	166	100	093	191	386
210	819	.152	.106	151	570	220	116	120	095	175	445	220	167	044	087	223	307
210	820	.129	.099	210	484	220	117	175	104	136	618	220	168	090	090	274	407
210	821	.130	.100	194	564	220	118	185	107	137	605	220	169	119	089	147	396
210	822	.195	.127	138	404	220	119	088	096	238	455	220	170	099	092	272	424
210	823	.153	.110	228	394	220	120	156	096	171	483	220	171	040	089	349	347
210	824	.087	.142	550	642	220	121	195	106	130	650	220	172	098	093	297	435
210	825	.125	.097	181	448	220	122	208	100	066	674	220	173	144	097	305	500
210	826	.206	.101	115	564	220	123	082	096	253	435	220	174	115	102	327	455
210	827	.127	.107	228	555	220	124	289	112	065	836	220	175	164	141	368	679
210	828	.145	.116	226	666	220	125	085	096	273	427	220	176	317	167	190	018
210	829	.116	.103	295	669	220	126	167	096	160	513	220	177	128	100	185	483

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2220	178	.098	.095	.203	.448	2220	235	.107	.094	.264	.451	2220	340	.151	.092	.145	.500
2220	179	.174	.134	.217	.695	2220	236	.106	.083	.205	.389	2220	341	.156	.093	.178	.447
2220	180	.191	.113	.156	.798	2220	237	.150	.094	.210	.472	2220	342	.168	.096	.184	.465
2220	181	.120	.089	.224	.410	2220	238	.107	.092	.206	.424	2220	343	.076	.092	.254	.376
2220	182	.181	.126	.176	.874	2220	239	.099	.094	.225	.420	2220	344	.114	.094	.175	.425
2220	183	.036	.081	.304	.296	2220	240	.097	.094	.236	.425	2220	345	.119	.095	.223	.421
2220	184	.085	.091	.237	.424	2220	241	.044	.091	.222	.360	2220	346	.142	.097	.225	.459
2220	185	.121	.095	.236	.469	2220	242	.106	.094	.188	.402	2220	347	.093	.092	.222	.415
2220	186	.099	.091	.239	.434	2220	243	.097	.101	.257	.451	2220	348	.140	.100	.197	.441
2220	187	.045	.086	.280	.367	2220	244	.126	.102	.220	.491	2220	349	.141	.099	.207	.469
2220	188	.083	.093	.233	.406	2220	245	.096	.107	.271	.459	2220	350	.153	.100	.187	.457
2220	189	.110	.097	.214	.439	2220	301	.221	.132	.216	.670	2220	351	.144	.101	.208	.521
2220	190	.086	.087	.213	.390	2220	302	.152	.101	.205	.474	2220	352	.250	.127	.209	.766
2220	191	.033	.089	.274	.343	2220	303	.247	.111	.173	.645	2220	353	.178	.111	.274	.546
2220	192	.125	.114	.264	.515	2220	304	.147	.095	.178	.492	2220	354	.115	.098	.186	.439
2220	193	.160	.115	.204	.537	2220	305	.136	.097	.236	.481	2220	355	.140	.102	.275	.500
2220	201	.095	.097	.214	.399	2220	306	.128	.095	.215	.466	2220	356	.138	.102	.209	.475
2220	202	.085	.092	.224	.447	2220	307	.216	.100	.136	.575	2220	357	.155	.103	.201	.480
2220	203	.154	.094	.182	.523	2220	308	.131	.101	.189	.481	2220	358	.087	.099	.228	.409
2220	204	.107	.094	.236	.461	2220	309	.126	.101	.236	.465	2220	359	.142	.087	.162	.429
2220	205	.101	.094	.218	.444	2220	310	.120	.086	.180	.405	2220	361	.159	.090	.148	.483
2220	206	.159	.098	.161	.568	2220	311	.152	.099	.189	.452	2220	362	.151	.106	.346	.433
2220	207	.088	.095	.249	.486	2220	312	.117	.099	.212	.478	2220	363	.111	.089	.213	.439
2220	208	.111	.090	.273	.427	2220	313	.090	.096	.202	.423	2220	364	.153	.101	.193	.524
2220	209	.102	.089	.278	.409	2220	314	.105	.100	.225	.500	2220	365	.151	.101	.220	.497
2220	210	.154	.092	.204	.478	2220	315	.170	.116	.243	.556	2220	366	.163	.103	.238	.480
2220	211	.092	.098	.227	.507	2220	316	.128	.094	.162	.404	2220	367	.085	.098	.259	.400
2220	212	.114	.090	.216	.428	2220	317	.249	.110	.078	.624	2220	368	.137	.093	.209	.466
2220	213	.109	.091	.259	.511	2220	318	.146	.105	.188	.548	2220	369	.140	.091	.221	.445
2220	214	.156	.090	.210	.447	2220	319	.135	.106	.349	.524	2220	370	.151	.092	.205	.460
2220	215	.099	.092	.232	.436	2220	320	.129	.105	.182	.511	2220	372	.152	.094	.161	.485
2220	216	.113	.100	.223	.463	2220	321	.220	.110	.129	.629	2220	373	.159	.098	.270	.486
2220	217	.111	.101	.228	.439	2220	322	.135	.097	.170	.498	2220	374	.151	.096	.267	.489
2220	218	.157	.102	.180	.509	2220	323	.128	.096	.182	.470	2220	375	.165	.098	.255	.516
2220	219	.104	.094	.273	.424	2220	324	.122	.095	.171	.448	2220	376	.089	.092	.289	.384
2220	220	.112	.093	.206	.528	2220	325	.206	.103	.149	.587	2220	377	.140	.097	.154	.577
2220	221	.108	.094	.252	.533	2220	326	.114	.098	.296	.466	2220	378	.139	.097	.177	.584
2220	222	.151	.096	.211	.597	2220	327	.118	.091	.195	.428	2220	379	.152	.099	.179	.592
2220	223	.103	.101	.215	.424	2220	328	.125	.092	.187	.458	2220	380	.091	.085	.199	.373
2220	224	.110	.094	.164	.464	2220	329	.079	.103	.282	.484	2220	381	.246	.112	.216	.586
2220	225	.104	.093	.162	.413	2220	330	.172	.100	.235	.504	2220	382	.170	.112	.205	.604
2220	226	.102	.092	.156	.439	2220	331	.075	.096	.284	.459	2220	383	.165	.097	.236	.541
2220	227	.150	.097	.138	.484	2220	332	.099	.102	.378	.435	2220	384	.113	.095	.208	.498
2220	228	.108	.096	.252	.543	2220	333	.108	.097	.324	.423	2220	385	.152	.093	.166	.494
2220	229	.108	.096	.224	.405	2220	334	.140	.096	.285	.537	2220	386	.152	.095	.183	.525
2220	230	.104	.098	.202	.419	2220	335	.104	.089	.284	.394	2220	387	.166	.097	.167	.554
2220	231	.101	.098	.196	.420	2220	336	.146	.094	.157	.459	2220	388	.084	.092	.231	.449
2220	232	.148	.100	.146	.473	2220	337	.148	.095	.163	.474	2220	389	.134	.096	.185	.460
2220	233	.150	.094	.173	.476	2220	338	.160	.096	.161	.481	2220	390	.129	.095	.185	.462
2220	234	.113	.083	.210	.407	2220	339	.095	.091	.197	.393	2220	391	.083	.103	.260	.432

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2220	392	175	097	164	517	2220	521	089	114	340	552	2220	571	083	095	245	441
2220	393	087	090	222	388	2220	522	051	110	366	481	2220	572	144	100	203	552
2220	394	147	092	144	483	2220	523	026	096	289	372	2220	573	113	097	214	466
2220	395	142	091	144	461	2220	524	086	090	245	362	2220	574	163	099	152	354
2220	396	156	094	127	485	2220	525	146	092	211	456	2220	575	125	102	243	505
2220	397	067	088	243	396	2220	526	132	090	199	447	2220	576	019	105	382	299
2220	398	125	099	215	492	2220	527	088	085	237	374	2220	577	010	096	349	315
2220	399	157	101	192	526	2220	528	083	100	281	423	2220	578	024	095	325	330
2220	400	178	104	188	564	2220	529	073	103	273	441	2220	579	105	094	224	407
2220	401	142	107	257	489	2220	530	077	099	330	510	2220	580	053	089	305	359
2220	402	088	098	244	485	2220	531	086	097	259	408	2220	581	075	088	315	422
2220	403	150	086	151	444	2220	532	143	095	144	460	2220	582	173	092	230	497
2220	404	145	086	149	474	2220	533	116	099	213	427	2220	583	156	091	283	467
2220	405	161	089	117	490	2220	534	122	101	220	436	2220	801	148	112	224	701
2220	406	064	084	213	360	2220	535	052	113	414	469	2220	802	237	119	166	681
2220	407	130	096	219	432	2220	536	020	106	398	404	2220	803	133	100	165	507
2220	408	100	097	205	437	2220	537	037	108	356	420	2220	804	143	103	190	739
2220	409	180	097	188	506	2220	538	072	092	211	403	2220	805	146	110	182	628
2220	410	086	090	250	360	2220	539	107	089	157	417	2220	806	253	115	104	533
2220	411	147	092	228	489	2220	540	128	093	175	445	2220	807	178	106	189	666
2220	412	138	093	221	490	2220	541	060	117	367	505	2220	808	157	098	298	547
2220	413	145	096	225	478	2220	542	087	126	388	497	2220	809	141	098	313	502
2220	414	055	090	284	364	2220	543	006	097	290	324	2220	810	229	106	246	594
2220	415	146	089	157	465	2220	544	072	091	240	348	2220	811	142	096	197	571
2220	416	093	085	198	389	2220	545	119	090	183	430	2220	812	148	095	204	557
2220	417	140	092	176	530	2220	546	160	093	191	466	2220	813	148	097	217	533
2220	418	129	092	161	529	2220	547	121	093	182	458	2220	814	250	103	149	708
2220	419	106	095	196	510	2220	548	017	103	376	326	2220	815	164	101	143	514
2220	420	122	096	191	524	2220	549	022	112	400	404	2220	816	154	099	172	497
2220	421	104	101	251	444	2220	550	002	098	326	329	2220	817	146	099	177	97
2220	501	173	108	211	567	2220	551	112	095	265	450	2220	818	240	110	139	655
2220	502	199	114	242	530	2220	552	111	095	219	418	2220	819	135	097	181	487
2220	503	147	115	256	498	2220	553	108	097	229	447	2220	820	137	096	150	499
2220	504	101	106	219	458	2220	554	125	097	208	486	2220	821	133	097	153	538
2220	505	146	087	200	470	2220	555	036	108	392	383	2220	822	170	116	236	594
2220	506	194	093	124	526	2220	556	005	116	440	362	2220	823	164	103	224	621
2220	507	146	090	183	445	2220	557	026	107	410	398	2220	824	142	109	306	443
2220	508	075	087	253	351	2220	558	064	100	251	382	2220	825	134	103	191	516
2220	509	058	101	311	392	2220	559	113	099	215	450	2220	826	237	115	168	627
2220	510	108	096	228	459	2220	560	162	099	157	472	2220	827	090	115	281	822
2220	511	156	097	125	539	2220	561	066	106	485	351	2220	828	133	103	197	628
2220	512	139	091	133	510	2220	562	079	098	406	258	2220	829	128	101	215	538
2220	513	094	087	184	465	2220	563	034	101	358	304	2220	830	230	107	115	666
2220	514	120	095	197	454	2220	564	076	089	235	337	2220	831	150	107	265	532
2220	515	111	102	276	468	2220	565	154	090	182	412	2220	832	161	104	219	506
2220	516	067	102	304	474	2220	566	096	089	179	392	2220	901	168	111	198	555
2220	517	050	096	289	393	2220	567	105	089	172	402	2220	902	137	105	213	548
2220	518	047	087	265	336	2220	568	048	091	227	367	2220	903	115	105	213	501
2220	519	104	093	192	396	2220	569	019	106	369	315	2220	904	193	114	153	799
2220	520	148	098	203	428	2220	570	057	098	272	365	2220	905	164	109	224	536

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	907	.161	.109	.195	.510	230	1335	.200	.100	.120	.724	230	186	.100	.094	.213	.385
220	908	.221	.111	.136	.555	230	1336	.294	.111	.053	.760	230	187	.120	.092	.180	.402
220	909	.126	.098	.198	.463	230	1337	.192	.112	.253	.666	230	188	.089	.090	.221	.391
220	910	.165	.097	.178	.468	230	1338	.127	.098	.265	.483	230	189	.092	.093	.212	.417
220	911	.141	.097	.213	.457	230	1400	.070	.093	.316	.425	230	190	.088	.085	.171	.360
220	912	.230	.101	.075	.543	230	141	.186	.104	.140	.548	230	191	.110	.088	.223	.403
220	913	.134	.093	.170	.503	230	142	.218	.112	.123	.708	230	192	.132	.103	.225	.515
220	914	.135	.097	.165	.671	230	143	.121	.094	.166	.440	230	193	.145	.104	.239	.503
220	915	.132	.097	.290	.471	230	144	.198	.105	.141	.611	230	201	.101	.092	.172	.452
220	916	.234	.103	.107	.711	230	145	.072	.088	.194	.370	230	202	.102	.093	.232	.405
220	917	.157	.106	.193	.519	230	146	.091	.090	.237	.426	230	203	.193	.101	.177	.425
220	918	.149	.105	.244	.520	230	147	.225	.104	.121	.629	230	204	.103	.099	.213	.434
220	919	.155	.104	.207	.519	230	148	.202	.103	.140	.651	230	205	.101	.099	.219	.425
220	920	.259	.112	.130	.697	230	149	.100	.096	.281	.467	230	206	.185	.108	.161	.558
220	921	.162	.109	.194	.604	230	150	.087	.087	.224	.408	230	207	.100	.094	.235	.385
220	922	.147	.109	.195	.512	230	151	.090	.092	.187	.395	230	208	.107	.091	.202	.414
230	101	.104	.087	.166	.511	230	152	.124	.095	.151	.473	230	209	.106	.090	.188	.413
230	102	.105	.093	.174	.432	230	153	.106	.094	.232	.441	230	210	.189	.097	.133	.505
230	103	.101	.089	.203	.439	230	154	.119	.094	.152	.511	230	211	.099	.101	.216	.438
230	104	.111	.087	.171	.419	230	155	.205	.111	.136	.947	230	212	.109	.088	.175	.417
230	105	.213	.098	.066	.591	230	156	.260	.120	.090	.947	230	213	.107	.088	.179	.419
230	106	.150	.098	.209	.517	230	157	.242	.119	.100	.874	230	214	.189	.092	.112	.491
230	107	.181	.103	.189	.613	230	158	.097	.086	.169	.411	230	215	.103	.091	.193	.392
230	108	.189	.102	.200	.592	230	159	.090	.094	.208	.410	230	216	.104	.092	.223	.426
230	109	.285	.112	.145	.678	230	160	.262	.114	.116	.697	230	217	.101	.092	.206	.425
230	110	.101	.093	.205	.514	230	161	.389	.126	.037	.862	230	218	.183	.100	.157	.528
230	111	.100	.093	.212	.484	230	162	.247	.110	.086	.748	230	219	.103	.089	.194	.396
230	112	.151	.109	.215	.532	230	163	.089	.090	.213	.366	230	220	.105	.095	.245	.467
230	113	.113	.096	.188	.494	230	164	.277	.121	.117	.658	230	221	.099	.094	.246	.467
230	114	.213	.105	.113	.599	230	165	.265	.111	.080	.706	230	222	.180	.103	.183	.587
230	115	.154	.102	.202	.550	230	166	.101	.091	.218	.385	230	223	.098	.092	.209	.422
230	116	.131	.108	.221	.466	230	167	.124	.086	.178	.393	230	224	.114	.087	.165	.401
230	117	.184	.105	.167	.620	230	168	.088	.088	.212	.416	230	225	.104	.084	.159	.384
230	118	.184	.106	.168	.576	230	169	.128	.098	.282	.472	230	226	.102	.083	.153	.379
230	119	.120	.106	.240	.486	230	170	.100	.091	.200	.419	230	227	.189	.093	.099	.508
230	120	.187	.101	.165	.545	230	171	.114	.088	.184	.396	230	228	.095	.096	.248	.466
230	121	.170	.102	.132	.620	230	172	.085	.093	.251	.410	230	229	.116	.086	.192	.421
230	122	.202	.108	.220	.635	230	173	.113	.097	.228	.412	230	230	.099	.086	.217	.401
230	123	.096	.092	.187	.377	230	174	.127	.108	.243	.642	230	231	.097	.088	.228	.387
230	124	.317	.121	.069	.678	230	175	.230	.131	.204	.787	230	232	.186	.095	.170	.506
230	125	.096	.092	.196	.375	230	176	.310	.157	.197	.114	230	233	.211	.099	.105	.556
230	126	.192	.100	.112	.483	230	177	.107	.097	.279	.419	230	234	.105	.097	.166	.343
230	127	.234	.108	.080	.636	230	178	.098	.094	.273	.402	230	235	.097	.087	.213	.355
230	128	.129	.099	.176	.477	230	179	.252	.128	.183	.856	230	236	.102	.097	.179	.341
230	129	.101	.092	.195	.571	230	180	.179	.108	.127	.766	230	237	.192	.093	.137	.484
230	130	.103	.092	.201	.562	230	181	.101	.088	.200	.417	230	238	.110	.089	.182	.407
230	131	.103	.092	.185	.538	230	182	.177	.119	.147	.726	230	239	.095	.087	.187	.383
230	132	.194	.100	.120	.697	230	183	.115	.083	.172	.419	230	240	.097	.087	.190	.373
230	133	.123	.093	.161	.455	230	184	.086	.094	.220	.369	230	241	.051	.083	.190	.329
230	134	.161	.094	.128	.530	230	185	.099	.097	.220	.404	230	242	.114	.090	.158	.468

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2330	243	.099	.094	.246	-.420	2330	348	-.136	.094	.184	-.436	2330	400	-.203	.101	.090	-.576
2330	244	-.187	.101	.188	-.510	2330	349	-.145	.094	.176	-.460	2330	401	-.183	.101	.115	-.549
2330	245	-.109	.102	.199	-.472	2330	350	-.148	.094	.173	-.445	2330	402	-.064	.094	.232	-.418
2330	301	-.298	.121	.072	-.691	2330	351	-.178	.087	.138	-.452	2330	403	-.155	.100	.147	-.514
2330	302	-.186	.106	.170	-.517	2330	352	-.305	.115	.112	-.789	2330	404	-.166	.100	.119	-.538
2330	303	-.247	.114	.148	-.646	2330	353	-.220	.111	.170	-.603	2330	405	-.171	.102	.137	-.545
2330	304	-.164	.103	.234	-.488	2330	354	-.094	.090	.219	-.389	2330	406	-.038	.094	.239	-.394
2330	305	-.163	.107	.212	-.537	2330	355	-.159	.098	.184	-.517	2330	407	-.131	.096	.236	-.442
2330	306	-.142	.101	.260	-.474	2330	356	-.166	.098	.247	-.531	2330	408	-.095	.092	.227	-.471
2330	307	-.223	.108	.225	-.592	2330	357	-.173	.098	.206	-.555	2330	409	-.200	.099	.126	-.547
2330	308	-.140	.100	.203	-.502	2330	358	-.066	.089	.262	-.406	2330	410	-.047	.088	.252	-.382
2330	309	-.135	.100	.207	-.473	2330	359	-.143	.099	.188	-.481	2330	411	-.160	.093	.178	-.521
2330	310	-.124	.086	.152	-.390	2330	360	-.156	.100	.180	-.523	2330	412	-.165	.093	.171	-.525
2330	311	-.165	.095	.259	-.505	2330	361	-.181	.107	.245	-.527	2330	413	-.165	.094	.165	-.514
2330	312	-.116	.111	.259	-.476	2330	362	-.087	.094	.187	-.429	2330	414	-.017	.087	.268	-.339
2330	313	-.100	.092	.237	-.442	2330	363	-.153	.097	.156	-.464	2330	415	-.159	.093	.123	-.571
2330	314	-.108	.111	.252	-.508	2330	364	-.163	.098	.181	-.505	2330	416	-.070	.081	.193	-.329
2330	315	-.213	.108	.188	-.666	2330	365	-.170	.099	.163	-.531	2330	417	-.146	.092	.171	-.481
2330	316	-.156	.103	.179	-.477	2330	366	-.055	.091	.231	-.388	2330	418	-.132	.092	.191	-.470
2330	317	-.245	.121	.168	-.629	2330	367	-.141	.091	.176	-.523	2330	419	-.118	.093	.176	-.456
2330	318	-.170	.101	.175	-.501	2330	368	-.151	.090	.175	-.445	2330	420	-.190	.099	.175	-.535
2330	319	-.167	.106	.195	-.574	2330	369	-.153	.090	.204	-.460	2330	421	-.106	.093	.229	-.442
2330	320	-.147	.100	.177	-.603	2330	370	-.181	.100	.152	-.569	2330	501	-.141	.126	.315	-.577
2330	321	-.229	.106	.115	-.587	2330	371	-.169	.099	.158	-.545	2330	502	-.142	.143	.468	-.617
2330	322	-.140	.100	.147	-.497	2330	372	-.168	.098	.171	-.585	2330	503	-.076	.125	.522	-.498
2330	323	-.132	.099	.144	-.491	2330	373	-.172	.100	.184	-.614	2330	504	-.119	.111	.415	-.461
2330	324	-.123	.098	.148	-.477	2330	374	-.056	.092	.268	-.473	2330	505	-.118	.098	.452	-.478
2330	325	-.203	.106	.114	-.577	2330	375	-.146	.098	.205	-.476	2330	506	-.173	.099	.124	-.547
2330	326	-.112	.100	.248	-.456	2330	376	-.153	.100	.202	-.508	2330	507	-.141	.092	.142	-.456
2330	327	-.126	.098	.174	-.473	2330	377	-.153	.101	.195	-.498	2330	508	-.110	.098	.279	-.501
2330	328	-.131	.094	.162	-.430	2330	378	-.093	.092	.199	-.441	2330	509	-.009	.118	.431	-.383
2330	329	-.111	.093	.227	-.496	2330	379	-.301	.117	.102	-.658	2330	510	-.032	.123	.502	-.396
2330	330	-.191	.096	.095	-.514	2330	380	-.217	.108	.141	-.566	2330	511	-.068	.116	.432	-.458
2330	331	-.065	.090	.231	-.383	2330	381	-.189	.098	.111	-.564	2330	512	-.112	.101	.253	-.412
2330	332	-.140	.097	.162	-.456	2330	382	-.082	.093	.261	-.413	2330	513	-.162	.091	.172	-.445
2330	333	-.147	.096	.157	-.430	2330	383	-.154	.090	.142	-.473	2330	514	-.129	.091	.202	-.456
2330	334	-.161	.096	.237	-.459	2330	384	-.165	.093	.165	-.496	2330	515	-.076	.102	.335	-.502
2330	335	-.069	.088	.220	-.350	2330	385	-.170	.094	.149	-.508	2330	516	-.046	.109	.326	-.381
2330	336	-.142	.088	.178	-.409	2330	386	-.042	.087	.254	-.361	2330	517	-.014	.103	.444	-.391
2330	337	-.149	.088	.169	-.402	2330	387	-.133	.093	.181	-.494	2330	518	-.088	.093	.287	-.398
2330	338	-.152	.088	.144	-.412	2330	388	-.141	.094	.172	-.499	2330	519	-.086	.091	.227	-.456
2330	339	-.055	.081	.214	-.286	2330	389	-.118	.095	.176	-.441	2330	520	-.129	.097	.209	-.523
2330	340	-.175	.100	.183	-.524	2330	390	-.188	.097	.172	-.526	2330	521	-.082	.106	.382	-.495
2330	341	-.189	.102	.189	-.567	2330	391	-.044	.084	.251	-.340	2330	522	-.019	.109	.527	-.344
2330	342	-.193	.103	.168	-.578	2330	392	-.151	.086	.165	-.457	2330	523	-.051	.101	.300	-.471
2330	343	-.067	.093	.278	-.384	2330	393	-.162	.084	.132	-.465	2330	524	-.043	.094	.259	-.332
2330	344	-.138	.099	.235	-.475	2330	394	-.166	.087	.154	-.482	2330	525	-.095	.090	.212	-.366
2330	345	-.149	.100	.463	-.463	2330	395	-.031	.079	.237	-.307	2330	526	-.134	.088	.199	-.417
2330	346	-.159	.101	.206	-.486	2330	396	-.129	.098	.200	-.491	2330	527	-.156	.084	.171	-.422
2330	347	-.054	.092	.260	-.344	2330	397	-.193	.099	.080	-.550	2330	528	-.072	.107	.269	-.592

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2330	529	.064	.112	.580	.436	2330	579	.082	.101	.249	.406	2330	915	.028	.131	.527	.425
2330	530	.013	.100	.392	.344	2330	580	.055	.097	.310	.387	2330	916	.230	.104	.132	.590
2330	531	.057	.096	.318	.440	2330	581	.065	.095	.322	.381	2330	917	.139	.121	.392	.597
2330	532	.138	.095	.228	.504	2330	582	.154	.099	.250	.433	2330	918	.149	.109	.297	.522
2330	533	.111	.096	.189	.434	2330	583	.149	.100	.283	.445	2330	919	.169	.101	.173	.539
2330	534	.117	.095	.166	.555	2330	801	.138	.104	.194	.658	2330	920	.272	.110	.063	.693
2330	535	.068	.104	.342	.462	2330	802	.230	.113	.117	.637	2330	921	.162	.105	.207	.481
2330	536	.036	.110	.413	.333	2330	803	.146	.105	.194	.468	2330	922	.160	.106	.215	.524
2330	537	.031	.109	.383	.436	2330	804	.178	.115	.252	.706	240	101	.099	.101	.251	.504
2330	538	.045	.095	.321	.336	2330	805	.214	.146	.185	.189	240	102	.094	.086	.171	.490
2330	539	.086	.088	.208	.474	2330	806	.375	.179	.307	.305	240	103	.093	.102	.275	.516
2330	540	.129	.093	.202	.355	2330	807	.233	.133	.255	.880	240	104	.105	.101	.240	.504
2330	541	.095	.112	.339	.588	2330	808	.170	.100	.212	.592	240	105	.204	.107	.153	.603
2330	542	.146	.125	.390	.556	2330	809	.140	.096	.246	.482	240	106	.170	.105	.154	.652
2330	543	.066	.105	.450	.376	2330	810	.237	.105	.168	.634	240	107	.207	.112	.150	.805
2330	544	.042	.097	.380	.443	2330	811	.153	.102	.252	.489	240	108	.209	.111	.158	.666
2330	545	.104	.095	.203	.443	2330	812	.153	.103	.236	.880	240	109	.292	.113	.077	.745
2330	546	.145	.101	.189	.614	2330	813	.162	.110	.245	.500	240	110	.099	.092	.196	.387
2330	547	.127	.096	.209	.281	2330	814	.281	.125	.204	.756	240	111	.093	.093	.207	.383
2330	548	.050	.108	.327	.450	2330	815	.182	.103	.194	.578	240	112	.096	.095	.234	.425
2330	549	.044	.116	.571	.419	2330	816	.163	.095	.125	.525	240	113	.103	.097	.223	.445
2330	550	.005	.110	.362	.333	2330	817	.148	.097	.168	.522	240	114	.212	.100	.102	.577
2330	551	.090	.104	.361	.444	2330	818	.222	.099	.156	.525	240	115	.176	.112	.233	.785
2330	552	.099	.094	.195	.444	2330	819	.133	.105	.210	.460	240	116	.187	.102	.161	.522
2330	553	.100	.094	.203	.329	2330	820	.180	.114	.185	.573	240	117	.210	.117	.150	.653
2330	554	.125	.095	.183	.422	2330	821	.189	.116	.166	.681	240	118	.208	.117	.156	.718
2330	555	.091	.123	.357	.499	2330	822	.124	.135	.525	.596	240	119	.108	.094	.236	.426
2330	556	.047	.114	.524	.499	2330	823	.159	.125	.425	.577	240	120	.179	.100	.142	.553
2330	557	.016	.103	.421	.333	2330	824	.177	.111	.187	.537	240	121	.203	.102	.150	.565
2330	558	.046	.093	.275	.444	2330	825	.180	.114	.176	.563	240	122	.191	.103	.155	.537
2330	559	.105	.091	.205	.466	2330	826	.306	.133	.115	.814	240	123	.099	.091	.252	.422
2330	560	.153	.095	.166	.550	2330	827	.018	.131	.549	.439	240	124	.177	.098	.137	.644
2330	561	.043	.107	.431	.350	2330	828	.141	.102	.189	.476	240	125	.097	.090	.254	.420
2330	562	.042	.112	.464	.333	2330	829	.169	.109	.185	.549	240	126	.187	.091	.157	.546
2330	563	.023	.109	.424	.333	2330	830	.272	.125	.118	.693	240	127	.201	.110	.157	.618
2330	564	.056	.097	.325	.333	2330	831	.070	.128	.385	.541	240	128	.186	.110	.153	.581
2330	565	.131	.096	.313	.444	2330	832	.164	.111	.301	.628	240	129	.107	.096	.262	.486
2330	566	.101	.091	.213	.444	2330	901	.199	.121	.216	.670	240	130	.099	.095	.261	.472
2330	567	.114	.092	.213	.333	2330	902	.154	.115	.209	.572	240	131	.095	.096	.259	.457
2330	568	.070	.107	.347	.433	2330	903	.118	.113	.244	.605	240	132	.194	.098	.177	.573
2330	569	.007	.103	.392	.444	2330	904	.206	.120	.199	.700	240	133	.133	.094	.242	.462
2330	570	.052	.100	.303	.333	2330	905	.176	.114	.184	.638	240	134	.179	.098	.156	.559
2330	571	.074	.094	.209	.509	2330	907	.177	.118	.230	.633	240	135	.223	.105	.125	.743
2330	572	.129	.096	.163	.444	2330	908	.216	.110	.147	.592	240	136	.317	.107	.017	.793
2330	573	.169	.094	.185	.444	2330	909	.116	.103	.268	.481	240	137	.207	.112	.139	.101
2330	574	.156	.099	.150	.499	2330	910	.188	.129	.364	.589	240	138	.094	.092	.215	.438
2330	575	.178	.119	.277	.499	2330	911	.156	.113	.246	.512	240	140	.094	.096	.158	.518
2330	576	.003	.106	.381	.333	2330	912	.267	.120	.165	.685	240	141	.211	.115	.243	.661
2330	577	.004	.098	.330	.333	2330	913	.142	.098	.208	.688	240	142	.232	.121	.141	.782
2330	578	.019	.098	.302	.333	2330	914	.137	.098	.300	.612	240	143	.093	.097	.341	.402

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	144	.226	.117	.232	.779	240	2001	.091	.084	.180	.392	240	3006	.144	.098	.178	.729
240	145	.174	.103	.227	.496	240	2002	.095	.104	.259	.502	240	3007	.202	.101	.146	.538
240	146	.086	.094	.228	.407	240	2003	.171	.105	.180	.593	240	3008	.125	.110	.209	.470
240	147	.245	.116	.111	.689	240	2004	.108	.093	.200	.424	240	3009	.125	.110	.217	.462
240	148	.247	.116	.121	.724	240	2005	.102	.093	.206	.419	240	3010	.110	.094	.186	.376
240	149	.091	.091	.203	.433	240	2006	.178	.096	.141	.503	240	3011	.157	.090	.127	.532
240	150	.180	.098	.161	.496	240	2007	.099	.104	.258	.498	240	3012	.107	.092	.218	.418
240	151	.083	.091	.213	.372	240	2008	.115	.094	.214	.419	240	3013	.102	.098	.239	.458
240	152	.096	.094	.211	.390	240	2009	.107	.093	.205	.395	240	3014	.103	.093	.237	.453
240	153	.109	.096	.187	.438	240	2010	.184	.094	.132	.481	240	3015	.191	.096	.138	.518
240	154	.224	.102	.092	.582	240	2011	.106	.094	.190	.414	240	3016	.180	.101	.163	.507
240	155	.250	.124	.173	.726	240	2012	.112	.084	.207	.410	240	3017	.218	.103	.108	.754
240	156	.287	.129	.111	.896	240	2013	.102	.084	.211	.419	240	3018	.164	.102	.206	.541
240	157	.293	.130	.106	.921	240	2014	.181	.083	.148	.486	240	3019	.164	.107	.208	.601
240	158	.185	.101	.193	.507	240	2015	.104	.094	.214	.403	240	3020	.140	.103	.209	.507
240	159	.089	.091	.208	.373	240	2016	.115	.091	.158	.426	240	3021	.192	.107	.160	.584
240	160	.297	.133	.097	.916	240	2017	.104	.090	.167	.407	240	3022	.127	.095	.183	.449
240	161	.279	.129	.075	.921	240	2018	.174	.093	.114	.500	240	3023	.125	.097	.217	.474
240	162	.420	.144	.049	.187	240	2019	.097	.086	.230	.416	240	3024	.112	.096	.241	.470
240	163	.085	.092	.250	.374	240	2020	.120	.092	.164	.469	240	3025	.167	.103	.204	.566
240	164	.260	.130	.120	.908	240	2021	.106	.092	.183	.458	240	3026	.104	.094	.235	.410
240	165	.298	.136	.083	.465	240	2022	.161	.094	.141	.521	240	3027	.117	.087	.137	.389
240	166	.093	.093	.255	.381	240	2023	.098	.092	.181	.410	240	3028	.142	.097	.168	.461
240	167	.191	.098	.164	.477	240	2024	.123	.101	.245	.448	240	3029	.178	.089	.121	.457
240	168	.087	.097	.248	.470	240	2025	.112	.098	.233	.426	240	3030	.211	.098	.138	.532
240	169	.103	.093	.095	.413	240	2026	.102	.098	.221	.400	240	3031	.031	.084	.260	.327
240	170	.091	.099	.233	.521	240	2027	.156	.102	.193	.482	240	3032	.155	.099	.211	.555
240	171	.188	.105	.165	.624	240	2028	.095	.093	.212	.456	240	3033	.172	.099	.192	.579
240	172	.090	.089	.198	.448	240	2029	.125	.093	.177	.456	240	3034	.166	.098	.191	.564
240	173	.110	.090	.159	.434	240	2030	.105	.092	.185	.427	240	3035	.003	.085	.324	.341
240	174	.140	.106	.182	.723	240	2031	.094	.095	.202	.431	240	3036	.129	.088	.128	.446
240	175	.376	.158	.076	.075	240	2032	.143	.096	.157	.477	240	3037	.152	.091	.116	.493
240	176	.399	.198	.199	.244	240	2033	.170	.097	.143	.579	240	3038	.150	.091	.117	.506
240	177	.092	.095	.240	.400	240	2034	.113	.087	.124	.369	240	3039	.013	.079	.246	.298
240	178	.096	.094	.233	.392	240	2035	.103	.098	.194	.414	240	3040	.182	.095	.133	.566
240	179	.401	.159	.104	.114	240	2036	.097	.088	.143	.382	240	3041	.211	.098	.104	.630
240	180	.218	.125	.140	.752	240	2037	.144	.099	.143	.475	240	3042	.205	.096	.119	.518
240	181	.088	.096	.205	.422	240	2038	.115	.094	.187	.478	240	3043	.019	.082	.244	.278
240	182	.230	.139	.111	.034	240	2039	.103	.094	.191	.429	240	3044	.146	.088	.161	.456
240	183	.203	.101	.102	.576	240	2040	.094	.094	.204	.431	240	3045	.165	.090	.140	.480
240	184	.084	.090	.229	.370	240	2041	.100	.085	.158	.346	240	3046	.161	.089	.140	.483
240	185	.085	.090	.230	.375	240	2042	.105	.084	.169	.410	240	3047	.009	.078	.290	.281
240	186	.099	.090	.187	.382	240	2043	.099	.099	.274	.446	240	3048	.126	.094	.182	.516
240	187	.206	.097	.108	.509	240	2044	.124	.099	.242	.460	240	3049	.150	.096	.161	.537
240	188	.086	.090	.194	.561	240	2045	.105	.097	.192	.420	240	3050	.147	.097	.163	.540
240	189	.076	.091	.199	.545	240	2046	.204	.106	.140	.605	240	3051	.186	.080	.042	.449
240	190	.085	.084	.165	.521	240	2047	.197	.104	.159	.581	240	3052	.181	.094	.087	.610
240	191	.193	.099	.183	.700	240	2048	.232	.109	.146	.577	240	3053	.183	.094	.108	.593
240	192	.144	.104	.213	.513	240	2049	.160	.095	.137	.464	240	3054	.035	.086	.258	.424
240	193	.141	.102	.215	.518	240	2050	.165	.096	.179	.584	240	3055	.161	.093	.242	.539

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	356	178	095	222	550	240	408	103	097	204	444	240	537	005	108	403	347
240	357	170	095	222	532	240	409	204	095	102	561	240	538	007	105	421	405
240	358	004	083	338	316	240	410	008	080	257	281	240	539	065	095	267	417
240	359	180	096	180	508	240	411	150	091	159	560	240	540	119	098	170	465
240	361	154	094	153	544	240	412	162	092	148	563	240	541	090	127	389	568
240	362	176	094	095	535	240	413	149	090	155	505	240	542	016	114	444	356
240	363	030	090	259	394	240	414	043	080	307	282	240	543	041	109	471	292
240	364	154	099	180	511	240	415	150	096	162	473	240	544	010	098	365	361
240	365	173	102	152	537	240	416	005	083	247	318	240	545	081	093	216	386
240	366	164	101	184	518	240	417	150	087	130	446	240	546	141	096	144	438
240	367	017	088	312	309	240	418	131	086	151	438	240	547	122	098	210	462
240	368	129	093	180	443	240	419	106	089	218	431	240	548	048	117	571	570
240	369	155	094	170	454	240	420	123	090	253	450	240	549	020	117	624	392
240	370	152	094	179	443	240	421	106	098	258	433	240	550	026	108	449	473
240	372	179	090	125	462	240	501	114	126	498	521	240	551	069	105	249	491
240	373	173	094	175	506	240	502	101	143	484	600	240	552	081	093	276	389
240	374	177	093	141	485	240	503	052	136	608	427	240	553	091	092	272	424
240	375	167	094	157	484	240	504	155	124	314	529	240	554	115	092	231	459
240	376	012	082	293	267	240	505	063	110	451	444	240	555	039	119	535	407
240	377	129	093	205	467	240	506	162	103	186	555	240	556	017	124	484	399
240	378	152	095	191	483	240	507	135	094	196	475	240	557	035	106	479	342
240	379	149	095	165	502	240	508	167	134	423	569	240	558	029	099	312	391
240	380	109	084	165	388	240	509	031	131	489	390	240	559	089	094	223	410
240	381	177	090	094	469	240	510	028	129	687	450	240	560	157	098	142	488
240	382	176	102	139	589	240	511	026	114	468	398	240	561	022	111	594	392
240	383	177	093	132	548	240	512	067	106	381	382	240	562	033	120	676	305
240	384	023	085	268	324	240	513	223	104	130	561	240	563	049	104	575	269
240	385	149	092	126	546	240	514	117	091	218	446	240	564	029	089	259	314
240	386	167	096	133	592	240	515	053	111	437	371	240	565	116	091	178	438
240	387	161	095	128	574	240	516	016	123	632	349	240	566	098	091	220	418
240	388	019	083	291	334	240	517	020	121	599	324	240	567	114	091	214	440
240	389	129	086	248	387	240	518	114	111	406	461	240	568	043	107	370	409
240	390	152	087	214	422	240	519	050	103	375	415	240	569	011	104	321	327
240	391	166	100	139	550	240	520	099	098	287	451	240	570	037	101	327	374
240	392	199	088	157	551	240	521	076	119	379	455	240	571	059	096	307	393
240	393	004	076	292	257	240	522	012	121	727	400	240	572	119	099	251	471
240	394	143	093	148	458	240	523	079	132	490	458	240	573	099	097	271	429
240	395	163	093	118	484	240	524	005	105	525	315	240	574	160	101	214	502
240	396	159	095	133	511	240	525	050	091	251	332	240	575	047	107	503	433
240	397	032	081	284	231	240	526	126	090	173	416	240	576	029	108	451	306
240	398	130	091	155	400	240	527	215	096	111	512	240	577	020	099	453	291
240	399	207	094	098	512	240	528	069	115	447	442	240	578	007	098	418	284
240	400	208	096	098	512	240	529	039	122	595	453	240	579	059	100	404	364
240	401	177	101	132	582	240	530	025	122	469	522	240	580	025	087	289	282
240	402	001	084	278	311	240	531	013	109	413	386	240	581	039	086	263	299
240	403	153	090	173	535	240	532	117	104	197	461	240	582	134	091	176	434
240	404	171	092	153	557	240	533	105	091	171	412	240	583	128	091	173	438
240	405	165	090	162	565	240	534	118	092	168	442	240	801	131	101	241	477
240	406	031	079	320	255	240	535	058	107	504	377	240	802	195	105	206	509
240	407	127	090	159	471	240	536	008	113	534	310	240	803	122	103	271	527

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	804	177	123	197	-1.079	250	101	069	102	284	-559	250	152	087	093	222	-382
240	805	222	143	189	-1.056	250	102	083	101	239	-599	250	153	109	099	207	-472
240	806	385	178	196	-1.265	250	103	083	107	304	-689	250	154	154	112	187	-677
240	807	314	166	174	-1.264	250	104	102	108	262	-640	250	155	359	155	085	-968
240	808	187	105	185	-620	250	105	123	133	307	-696	250	156	370	148	089	-975
240	809	131	097	225	-544	250	106	207	130	189	-984	250	157	369	149	103	-998
240	810	196	102	173	-568	250	107	276	133	176	-874	250	158	076	087	269	-342
240	811	126	109	264	-455	250	108	269	129	188	-803	250	159	077	091	236	-460
240	812	150	112	230	-594	250	109	264	145	231	-136	250	160	363	140	029	-954
240	813	168	123	255	-670	250	110	072	096	284	-371	250	161	343	145	095	-1103
240	814	275	141	147	-918	250	111	088	098	272	-441	250	162	370	142	016	-1039
240	815	197	119	144	-785	250	112	085	107	338	-496	250	163	075	090	207	-397
240	816	166	100	128	-608	250	113	107	104	228	-598	250	164	366	160	072	-1096
240	817	143	102	185	-680	250	114	119	122	291	-887	250	165	406	157	043	-1634
240	818	189	098	123	-514	250	115	198	120	173	-757	250	166	073	080	210	-376
240	819	126	100	190	-476	250	116	251	130	205	-795	250	167	079	089	222	-412
240	820	199	114	157	-675	250	117	259	120	116	-766	250	168	078	091	210	-400
240	821	195	109	225	-886	250	118	252	119	109	-719	250	169	087	091	206	-391
240	822	060	143	551	-609	250	119	093	104	308	-485	250	170	074	094	244	-442
240	823	124	135	432	-641	250	120	038	105	307	-438	250	171	081	093	205	-398
240	824	182	104	247	-585	250	121	228	119	145	-705	250	172	093	099	277	-480
240	825	185	112	234	-714	250	122	245	110	093	-673	250	173	124	100	261	-490
240	826	281	131	228	-756	250	123	082	098	262	-476	250	174	174	135	252	-771
240	827	033	136	778	-399	250	124	220	123	210	-897	250	175	351	181	190	-1072
240	828	133	093	187	-648	250	125	075	098	270	-439	250	176	580	241	058	-1663
240	829	179	109	174	-648	250	126	034	109	351	-440	250	177	085	094	208	-431
240	830	260	117	114	-775	250	127	259	126	117	-912	250	178	076	093	209	-416
240	831	044	125	461	-502	250	128	232	121	123	-923	250	179	402	185	089	-1246
240	832	135	124	917	-534	250	129	072	090	211	-442	250	180	308	144	209	-1215
240	901	220	118	148	-948	250	130	087	091	205	-485	250	181	080	082	229	-347
240	902	160	105	185	-597	250	131	076	093	231	-465	250	182	287	150	208	-919
240	903	109	101	256	-528	250	132	052	106	270	-486	250	183	091	080	220	-347
240	904	170	106	172	-516	250	133	129	101	188	-512	250	184	082	095	230	-361
240	905	206	124	158	-814	250	134	228	111	158	-720	250	185	085	095	240	-385
240	906	217	139	198	-853	250	135	270	115	063	-749	250	186	086	093	211	-387
240	907	177	107	180	-576	250	136	243	121	105	-696	250	187	103	093	204	-423
240	908	107	095	234	-415	250	137	282	125	167	-1022	250	188	087	090	218	-375
240	909	214	131	221	-018	250	138	081	090	261	-358	250	189	078	090	196	-360
240	910	154	116	289	-575	250	140	063	089	266	-328	250	190	078	083	193	-321
240	911	257	108	140	-758	250	141	283	120	096	-720	250	191	082	094	203	-382
240	912	127	099	249	-467	250	142	306	140	101	-1007	250	192	185	115	282	-637
240	913	117	100	308	-513	250	143	082	089	223	-434	250	193	173	110	278	-560
240	914	006	138	721	-459	250	144	284	120	082	-919	250	201	075	095	218	-412
240	915	195	104	162	-574	250	145	061	087	228	-407	250	202	082	097	273	-393
240	916	113	120	285	-537	250	146	073	088	228	-352	250	203	061	106	319	-411
240	917	115	123	446	-507	250	147	302	123	041	-841	250	204	091	097	241	-407
240	918	150	114	254	-673	250	148	297	119	035	-880	250	205	081	097	255	-404
240	919	238	117	163	-729	250	149	074	090	249	-371	250	206	067	107	312	-415
240	920	159	102	260	-486	250	150	055	085	214	-332	250	207	073	098	309	-363
240	921	166	104	235	-492	250	151	074	093	231	-386	250	208	103	097	198	-460

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
209	089	096	211	440	250	314	095	214	095	214	342	250	365	144	094	256	469
210	083	106	239	460	250	315	113	262	113	262	385	250	366	129	094	265	428
211	074	098	291	394	250	316	102	172	102	172	378	250	367	099	090	276	402
212	095	096	216	417	250	317	106	182	106	182	674	250	368	113	087	214	402
213	083	096	224	409	250	318	106	157	106	157	647	250	369	110	087	208	403
214	078	104	245	429	250	319	113	152	113	152	697	250	370	100	087	233	387
215	075	098	225	424	250	320	111	141	111	141	684	250	372	171	102	182	495
216	108	091	225	446	250	321	106	147	106	147	644	250	373	163	090	154	533
217	089	092	253	432	250	322	119	107	119	107	544	250	374	146	085	146	440
218	089	101	272	463	250	323	102	105	102	105	544	250	375	131	085	141	401
219	064	100	253	417	250	324	101	103	101	103	460	250	376	107	083	173	386
220	110	097	243	459	250	325	120	101	120	101	468	250	377	117	096	198	477
221	091	096	253	428	250	326	095	088	095	088	374	250	378	109	096	189	471
222	100	106	264	473	250	327	100	100	100	100	447	250	379	099	097	223	472
223	071	094	261	411	250	328	097	090	097	090	375	250	380	099	095	232	430
224	105	093	210	397	250	329	172	103	172	103	339	250	381	129	090	214	515
225	096	090	197	374	250	330	167	090	167	090	462	250	382	158	106	188	518
226	085	090	210	364	250	331	129	087	129	087	392	250	383	172	099	146	563
227	107	101	222	413	250	332	154	099	154	099	507	250	384	148	095	177	449
228	069	098	269	398	250	333	145	098	145	098	488	250	385	150	085	113	455
229	105	092	312	458	250	334	130	096	130	096	488	250	386	139	086	129	443
230	084	089	295	408	250	335	088	094	088	094	473	250	387	124	085	131	406
231	069	090	326	423	250	336	106	094	106	094	393	250	388	108	083	150	392
232	105	098	334	481	250	337	103	093	103	093	394	250	389	114	086	250	422
233	201	100	148	423	250	338	091	093	239	411	250	390	111	085	237	413	
234	094	078	241	343	250	339	057	090	263	380	250	391	149	104	186	515	
235	084	089	291	443	250	340	176	099	132	341	250	392	161	086	202	483	
236	076	078	279	388	250	341	179	100	130	351	250	393	138	081	187	423	
237	123	097	297	445	250	342	166	095	148	385	250	394	137	093	179	443	
238	108	091	225	421	250	343	120	089	207	456	250	395	127	091	179	429	
239	087	091	251	376	250	344	140	091	150	475	250	396	111	092	183	426	
240	075	091	258	365	250	345	133	091	165	490	250	397	099	088	190	381	
241	095	077	163	440	250	346	118	090	174	478	250	398	103	093	205	433	
242	096	094	197	469	250	347	074	088	208	408	250	399	157	096	172	485	
243	088	095	236	425	250	348	111	086	155	388	250	400	154	097	177	505	
244	153	102	194	526	250	349	109	086	165	402	250	401	162	106	177	591	
245	099	091	211	431	250	350	098	085	188	376	250	402	149	095	177	471	
3001	177	107	248	674	250	351	181	094	117	477	250	403	142	096	194	511	
3002	196	109	137	514	250	352	139	103	230	537	250	404	131	096	202	501	
3003	179	104	203	702	250	353	178	096	156	714	250	405	115	095	222	483	
3004	162	105	157	597	250	354	137	090	162	443	250	406	100	093	211	466	
3005	158	111	176	752	250	355	155	095	150	511	250	407	098	096	237	409	
3006	146	107	159	608	250	356	146	095	145	525	250	408	091	092	221	420	
3007	151	101	191	516	250	357	129	092	169	511	250	409	151	099	162	540	
3008	122	097	221	469	250	358	094	089	191	452	250	410	133	093	150	472	
3009	110	096	206	366	250	359	111	093	176	429	250	411	143	089	141	437	
3010	108	078	155	391	250	360	095	093	198	464	250	412	121	088	162	424	
3011	148	102	146	537	250	361	169	095	198	635	250	413	084	089	193	368	
3012	099	094	202	450	250	362	132	095	152	577	250	414	087	087	178	370	
3013	087	091	223	404	250	364	155	095	229	474	250	415	137	087	196	416	

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2550	416	122	083	170	411	2550	545	058	098	276	406	250	812	175	116	229	646
2550	417	154	097	166	437	2550	545	124	104	231	522	250	813	236	142	259	791
2550	418	109	096	205	391	2550	546	116	092	148	452	250	814	286	154	159	852
2550	419	044	098	309	323	2550	547	012	133	494	797	250	815	259	163	276	1048
2550	420	166	105	181	500	2550	548	030	138	520	699	250	816	175	125	288	772
2550	421	096	096	237	418	2550	549	108	129	622	549	250	817	167	132	297	881
2550	501	060	168	801	631	2550	550	026	111	409	555	250	818	130	103	256	543
2550	502	017	184	842	550	2550	551	065	098	235	422	250	819	129	101	230	561
2550	503	051	180	819	489	2550	552	080	098	244	419	250	820	269	143	142	991
2550	504	037	169	729	539	2550	553	106	098	199	445	250	821	255	121	133	764
2550	505	033	124	575	417	2550	554	004	132	531	436	250	822	101	186	883	401
2550	506	152	121	421	643	2550	555	069	131	688	363	250	823	154	146	448	658
2550	507	108	103	325	520	2550	556	126	120	614	255	250	824	204	112	216	614
2550	508	009	138	579	417	2550	557	022	102	463	361	250	825	256	122	135	755
2550	509	092	165	864	411	2550	558	065	094	303	436	250	826	313	133	175	751
2550	510	105	180	855	363	2550	559	138	098	279	520	250	827	176	187	903	375
2550	511	045	138	713	392	2550	560	013	121	690	383	250	828	117	098	290	611
2550	512	034	110	410	592	2550	561	107	121	672	253	250	829	252	133	114	942
2550	513	118	102	286	594	2550	562	150	114	575	195	250	830	265	142	211	758
2550	514	118	102	240	518	2550	563	022	097	367	288	250	831	064	162	975	437
2550	515	017	139	508	421	2550	564	086	096	194	375	250	832	148	131	354	592
2550	516	094	166	666	368	2550	565	089	096	223	405	250	901	285	141	155	882
2550	517	152	161	790	261	2550	566	109	096	215	439	250	902	193	122	168	982
2550	518	033	120	513	351	2550	567	025	122	402	512	250	903	113	111	319	673
2550	519	035	098	329	416	2550	568	092	119	656	243	250	904	062	103	302	514
2550	520	115	094	192	411	2550	569	055	114	655	303	250	905	293	154	178	940
2550	521	002	139	574	432	2550	570	028	091	203	384	250	906	281	187	367	174
2550	522	096	164	866	373	2550	571	092	096	221	446	250	907	080	101	394	497
2550	523	125	151	748	294	2550	572	084	091	205	407	250	908	095	101	286	391
2550	524	048	116	542	273	2550	573	146	095	166	498	250	909	262	176	242	022
2550	525	051	096	277	372	2550	574	046	110	432	284	250	910	168	147	486	694
2550	526	124	097	275	477	2550	575	122	119	528	255	250	911	231	119	170	663
2550	527	136	095	242	484	2550	576	106	112	511	257	250	912	118	101	245	513
2550	528	003	138	490	535	2550	577	095	109	470	287	250	913	096	102	261	428
2550	529	057	140	722	576	2550	578	023	115	476	380	250	914	122	180	072	361
2550	530	121	142	751	505	2550	579	028	092	330	302	250	915	108	098	242	442
2550	531	030	113	444	390	2550	580	015	086	316	368	250	916	077	151	620	576
2550	532	099	102	325	471	2550	581	122	094	235	463	250	917	117	129	491	587
2550	533	090	099	312	417	2550	582	119	091	212	484	250	918	155	121	368	601
2550	534	105	098	294	447	2550	583	130	103	254	500	250	919	155	109	417	586
2550	535	002	129	542	382	2550	584	108	096	254	444	250	920	159	103	230	548
2550	536	094	143	694	327	2550	585	122	103	317	549	250	921	180	105	273	565
2550	537	113	141	638	321	2550	586	235	150	154	240	260	922	063	099	290	422
2550	538	035	107	507	335	2550	587	340	195	185	571	260	102	069	099	276	549
2550	539	041	091	263	326	2550	588	421	200	224	435	260	103	054	102	273	390
2550	540	107	095	267	389	2550	589	423	216	073	176	260	104	082	103	294	681
2550	541	035	134	590	425	2550	590	209	117	215	008	260	105	078	111	317	777
2550	542	136	138	706	330	2550	591	134	105	235	610	260	106	173	123	337	707
2550	543	150	135	799	300	2550	592	126	102	329	504	260	107	223	126	135	755
2550	544	041	108	455	340	2550	593	127	105	218	481	260	108	232	120	119	756

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	109	198	120	148	813	260	160	314	136	111	-1.079	260	217	065	093	256	372
260	110	068	099	277	517	260	161	229	125	139	672	260	218	032	092	286	343
260	111	058	101	272	492	260	162	384	144	043	-1.121	260	219	061	093	248	399
260	112	058	100	274	470	260	163	068	098	249	454	260	220	072	095	285	414
260	113	085	105	262	622	260	164	279	143	200	879	260	221	067	095	281	409
260	114	077	107	284	723	260	165	320	141	114	929	260	222	035	093	260	370
260	115	159	117	259	865	260	166	062	097	259	437	260	223	059	094	260	374
260	116	193	115	187	678	260	167	105	100	233	526	260	224	076	095	220	403
260	117	201	117	183	702	260	168	065	089	217	425	260	225	063	092	219	380
260	118	203	117	159	727	260	169	067	092	230	363	260	226	062	092	224	404
260	119	067	093	236	409	260	170	052	090	249	427	260	227	033	093	267	375
260	120	016	095	308	527	260	171	101	097	260	436	260	228	059	095	291	402
260	121	199	104	114	699	260	172	073	091	228	413	260	229	075	094	215	382
260	122	206	111	132	866	260	173	105	093	233	498	260	230	055	092	241	379
260	123	055	091	273	436	260	174	166	127	187	760	260	231	061	094	237	379
260	124	126	105	207	553	260	175	378	173	155	-1.089	260	232	040	092	261	344
260	125	060	090	267	424	260	176	437	215	185	-1.665	260	233	066	094	285	377
260	126	025	090	299	399	260	177	065	092	185	468	260	234	068	097	227	304
260	127	209	120	130	660	260	178	057	091	270	462	260	235	058	089	270	338
260	128	189	118	179	713	260	179	376	178	160	-1.031	260	236	059	078	212	297
260	129	062	095	239	384	260	180	267	138	251	430	260	237	041	086	255	299
260	130	052	095	251	370	260	181	065	090	251	430	260	238	075	096	288	411
260	131	057	096	245	377	260	182	251	140	173	861	260	239	062	097	307	381
260	132	036	095	292	361	260	183	113	093	212	502	260	240	060	097	301	392
260	133	111	102	250	508	260	184	058	089	265	392	260	241	063	078	198	346
260	134	168	110	184	691	260	185	060	089	293	387	260	242	071	088	287	367
260	135	227	120	115	957	260	186	059	088	273	379	260	243	065	087	289	344
260	136	192	116	126	834	260	187	113	092	223	456	260	244	042	085	290	318
260	137	243	122	113	939	260	188	065	089	217	371	260	245	073	093	240	412
260	138	064	093	251	408	260	189	063	088	219	356	260	246	214	152	303	871
260	140	103	097	216	459	260	190	061	081	218	312	260	247	266	147	180	982
260	141	246	117	173	867	260	191	099	097	312	448	260	248	246	155	180	872
260	142	244	126	139	705	260	192	156	111	207	571	260	249	197	129	194	910
260	143	067	087	217	359	260	193	151	107	193	615	260	250	167	118	282	645
260	144	247	117	149	862	260	200	064	090	268	354	260	251	148	116	242	899
260	145	103	091	215	414	260	201	062	090	268	362	260	252	142	113	200	574
260	146	059	104	316	415	260	202	030	089	299	313	260	253	104	103	200	660
260	147	249	132	193	985	260	204	058	096	256	452	260	254	099	103	220	513
260	148	251	130	213	797	260	205	061	096	205	446	260	255	097	084	191	424
260	149	098	093	246	379	260	206	024	095	259	394	260	256	003	087	310	285
260	150	098	107	274	465	260	207	061	090	270	371	260	257	085	096	286	413
260	151	055	092	336	384	260	208	064	090	270	360	260	258	070	092	247	396
260	152	061	092	250	400	260	209	063	089	264	363	260	259	080	098	285	430
260	153	086	095	238	425	260	210	027	088	264	322	260	260	263	153	200	246
260	154	190	112	249	606	260	211	061	097	241	441	260	261	253	137	200	937
260	155	268	122	141	771	260	212	070	091	243	389	260	262	213	131	165	831
260	156	290	121	080	941	260	213	067	092	237	386	260	263	188	126	193	726
260	157	294	121	082	895	260	214	035	088	260	350	260	264	168	119	198	598
260	158	113	096	250	442	260	215	060	091	282	353	260	265	141	111	227	597
260	159	066	097	249	412	260	216	074	094	243	382	260	266	147	113	235	536

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	222	111	105	296	612	260	374	124	97	164	485	260	503	94	179	811	433
260	222	96	105	292	470	260	375	105	97	188	449	260	504	106	177	847	387
260	222	94	105	295	463	260	376	114	97	182	469	260	505	061	134	651	381
260	222	117	109	291	558	260	377	95	92	243	470	260	506	101	150	586	623
260	222	87	109	290	455	260	378	69	91	237	399	260	507	94	126	585	632
260	222	80	91	244	422	260	379	76	87	265	389	260	508	13	144	570	483
260	222	75	93	244	277	260	380	72	87	240	381	260	509	96	157	922	443
260	222	88	91	244	422	260	381	99	91	211	555	260	510	130	166	766	398
260	222	88	91	244	422	260	382	72	87	220	798	260	511	108	152	783	391
260	222	88	91	244	422	260	383	88	117	211	715	260	512	108	119	515	723
260	222	88	91	244	422	260	384	88	123	220	798	260	513	108	118	460	652
260	222	88	91	244	422	260	385	88	117	168	141	260	514	108	119	357	619
260	222	88	91	244	422	260	386	88	113	150	407	260	515	108	119	357	394
260	222	88	91	244	422	260	387	88	99	180	381	260	516	079	139	590	403
260	222	88	91	244	422	260	388	88	114	173	394	260	517	161	153	805	284
260	222	88	91	244	422	260	389	88	99	244	360	260	518	041	140	609	378
260	222	88	91	244	422	260	390	88	99	244	353	260	519	025	098	359	359
260	222	88	91	244	422	260	391	88	99	157	772	260	520	122	102	254	511
260	222	88	91	244	422	260	392	88	99	156	556	260	521	122	132	559	497
260	222	88	91	244	422	260	393	88	99	179	416	260	522	032	136	653	444
260	222	88	91	244	422	260	394	88	99	249	417	260	523	108	146	731	316
260	222	88	91	244	422	260	395	88	99	303	397	260	524	088	119	542	320
260	222	88	91	244	422	260	396	88	99	309	395	260	525	022	099	320	486
260	222	88	91	244	422	260	397	88	99	256	407	260	526	117	106	264	483
260	222	88	91	244	422	260	398	88	99	243	390	260	527	152	107	228	508
260	222	88	91	244	422	260	399	88	99	335	602	260	528	066	137	511	589
260	222	88	91	244	422	260	400	88	99	338	520	260	529	052	144	579	559
260	222	88	91	244	422	260	401	88	99	197	890	260	530	088	147	571	547
260	222	88	91	244	422	260	402	88	99	163	488	260	531	013	152	704	657
260	222	88	91	244	422	260	403	88	99	121	448	260	532	013	109	423	401
260	222	88	91	244	422	260	404	88	99	113	416	260	533	088	104	276	485
260	222	88	91	244	422	260	405	88	99	98	380	260	534	101	105	277	570
260	222	88	91	244	422	260	406	88	99	90	403	260	535	002	123	549	425
260	222	88	91	244	422	260	407	88	99	264	443	260	536	074	126	538	373
260	222	88	91	244	422	260	408	88	99	269	420	260	537	185	116	722	212
260	222	88	91	244	422	260	409	88	99	212	453	260	538	023	108	436	354
260	222	88	91	244	422	260	410	88	99	229	431	260	539	033	108	341	446
260	222	88	91	244	422	260	411	88	99	231	421	260	540	033	108	492	500
260	222	88	91	244	422	260	412	88	99	245	437	260	541	089	116	577	884
260	222	88	91	244	422	260	413	88	99	292	406	260	542	150	118	599	92
260	222	88	91	244	422	260	414	88	99	281	399	260	543	134	130	564	346
260	222	88	91	244	422	260	415	88	99	273	424	260	544	046	105	471	315
260	222	88	91	244	422	260	416	88	99	234	427	260	545	030	096	285	376
260	222	88	91	244	422	260	417	88	99	231	467	260	546	038	095	405	259
260	222	88	91	244	422	260	418	88	99	277	421	260	547	087	110	434	498
260	222	88	91	244	422	260	419	88	99	335	389	260	548	094	141	471	773
260	222	88	91	244	422	260	420	88	99	290	387	260	549	030	148	656	58
260	222	88	91	244	422	260	421	88	99	278	370	260	550	081	123	703	80
260	222	88	91	244	422	260	501	88	99	655	584	260	551	074	148	505	452
260	222	88	91	244	422	260	502	88	99	173	640	260	552	049	098	292	454

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	820	145	145	227	863	260	820	145	145	227	863	260	820	145	145	227	863
260	821	138	138	164	914	260	821	138	138	164	914	260	821	138	138	164	914
260	822	169	204	1	420	260	822	169	204	1	420	260	822	169	204	1	420
260	823	165	165	601	737	260	823	165	165	601	737	260	823	165	165	601	737
260	824	220	220	176	304	260	824	220	220	176	304	260	824	220	220	176	304
260	825	130	130	145	969	260	825	130	130	145	969	260	825	130	130	145	969
260	826	341	167	217	470	260	826	341	167	217	470	260	826	341	167	217	470
260	827	216	200	1	355	260	827	216	200	1	355	260	827	216	200	1	355
260	828	111	099	306	800	260	828	111	099	306	800	260	828	111	099	306	800
260	829	125	125	280	338	260	829	125	125	280	338	260	829	125	125	280	338
260	830	166	166	241	628	260	830	166	166	241	628	260	830	166	166	241	628
260	831	111	198	928	359	260	831	111	198	928	359	260	831	111	198	928	359
260	832	153	153	500	627	260	832	153	153	500	627	260	832	153	153	500	627
260	833	123	123	152	639	260	833	123	123	152	639	260	833	123	123	152	639
260	834	105	105	218	13	260	834	105	105	218	13	260	834	105	105	218	13
260	835	103	103	243	69	260	835	103	103	243	69	260	835	103	103	243	69
260	836	100	098	332	21	260	836	100	098	332	21	260	836	100	098	332	21
260	837	132	132	181	762	260	837	132	132	181	762	260	837	132	132	181	762
260	838	151	151	279	817	260	838	151	151	279	817	260	838	151	151	279	817
260	839	101	101	231	472	260	839	101	101	231	472	260	839	101	101	231	472
260	840	088	097	333	489	260	840	088	097	333	489	260	840	088	097	333	489
260	841	187	187	439	008	260	841	187	187	439	008	260	841	187	187	439	008
260	842	147	147	339	15	260	842	147	147	339	15	260	842	147	147	339	15
260	843	119	119	094	716	260	843	119	119	094	716	260	843	119	119	094	716
260	844	098	098	241	641	260	844	098	098	241	641	260	844	098	098	241	641
260	845	270	270	467	493	260	845	270	270	467	493	260	845	270	270	467	493
260	846	177	177	515	15	260	846	177	177	515	15	260	846	177	177	515	15
260	847	730	730	72	606	260	847	730	730	72	606	260	847	730	730	72	606
260	848	573	573	41	935	260	848	573	573	41	935	260	848	573	573	41	935
260	849	129	129	229	72	260	849	129	129	229	72	260	849	129	129	229	72
260	850	192	121	229	22	260	850	192	121	229	22	260	850	192	121	229	22
260	851	171	171	293	65	260	851	171	171	293	65	260	851	171	171	293	65
260	852	066	066	414	14	260	852	066	066	414	14	260	852	066	066	414	14
260	853	095	095	330	666	260	853	095	095	330	666	260	853	095	095	330	666
260	854	091	091	287	386	260	854	091	091	287	386	260	854	091	091	287	386
260	855	094	094	270	426	260	855	094	094	270	426	260	855	094	094	270	426
260	856	096	096	341	403	260	856	096	096	341	403	260	856	096	096	341	403
260	857	106	106	240	534	260	857	106	106	240	534	260	857	106	106	240	534
260	858	114	114	383	645	260	858	114	114	383	645	260	858	114	114	383	645
260	859	111	111	355	667	260	859	111	111	355	667	260	859	111	111	355	667
260	860	109	109	236	610	260	860	109	109	236	610	260	860	109	109	236	610
260	861	099	099	398	487	260	861	099	099	398	487	260	861	099	099	398	487
260	862	099	099	444	403	260	862	099	099	444	403	260	862	099	099	444	403
260	863	101	101	284	364	260	863	101	101	284	364	260	863	101	101	284	364
260	864	102	102	321	525	260	864	102	102	321	525	260	864	102	102	321	525
260	865	098	098	330	498	260	865	098	098	330	498	260	865	098	098	330	498
260	866	108	108	285	339	260	866	108	108	285	339	260	866	108	108	285	339
260	867	121	121	32	641	260	867	121	121	32	641	260	867	121	121	32	641

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	168	.053	.093	217	368	270	330	.165	.112	160	692						
270	169	.062	.096	257	366	270	331	.126	.106	170	578						
270	170	.041	.093	253	347	270	332	.112	.096	190	486						
270	171	.092	.100	208	430	270	333	.109	.095	211	549						
270	172	.042	.091	266	348	270	334	.085	.094	233	460						
270	173	.073	.092	339	417	270	335	.067	.095	246	471						
270	174	.116	.121	336	429	270	336	.071	.095	203	379						
270	175	.300	.163	167	408	270	337	.078	.095	187	398						
270	176	.307	.182	143	401	270	338	.068	.095	213	426						
270	177	.082	.094	229	416	270	339	.063	.094	232	371						
270	178	.062	.091	263	351	270	340	.176	.103	155	594						
270	179	.291	.151	142	339	270	341	.188	.106	148	603						
270	180	.178	.134	276	401	270	342	.159	.104	174	528						
270	181	.065	.092	231	429	270	343	.110	.097	192	460						
270	182	.164	.129	262	393	270	344	.106	.097	227	421						
270	183	.110	.096	201	486	270	345	.105	.096	266	444						
270	184	.043	.092	241	366	270	346	.084	.095	266	424						
270	185	.044	.092	267	379	270	347	.067	.095	266	416						
270	186	.035	.090	240	466	270	348	.063	.090	279	376						
270	187	.086	.097	211	444	270	349	.071	.090	274	371						
270	188	.039	.095	311	466	270	350	.064	.089	234	365						
270	189	.051	.096	282	437	270	351	.167	.097	189	512						
270	190	.040	.089	258	487	270	352	.054	.109	228	618						
270	191	.084	.102	303	492	270	353	.167	.119	222	604						
270	192	.107	.105	227	500	270	354	.146	.105	188	502						
270	193	.114	.102	203	466	270	355	.117	.093	227	474						
270	201	.068	.086	335	444	270	356	.113	.093	227	451						
270	202	.060	.094	345	444	270	357	.092	.091	222	414						
270	203	.001	.091	387	333	270	358	.074	.091	254	382						
270	204	.034	.094	348	333	270	359	.073	.086	244	350						
270	205	.059	.094	337	353	270	361	.067	.086	233	361						
270	206	.008	.091	400	222	270	362	.175	.121	159	627						
270	207	.059	.095	336	384	270	363	.153	.108	239	628						
270	208	.043	.093	342	440	270	364	.116	.093	171	409						
270	209	.063	.093	334	440	270	365	.111	.091	190	431						
270	210	.002	.090	383	490	270	366	.088	.090	220	406						
270	211	.057	.095	339	477	270	367	.072	.088	234	394						
270	212	.040	.089	264	488	270	368	.068	.092	227	372						
270	213	.061	.089	238	444	270	369	.074	.093	225	386						
270	214	.001	.083	274	471	270	370	.066	.092	235	379						
270	215	.051	.094	246	558	270	371	.182	.111	207	657						
270	216	.043	.089	281	488	270	372	.144	.096	143	581						
270	217	.064	.089	261	433	270	373	.144	.096	160	463						
270	218	.006	.087	312	353	270	374	.116	.089	170	470						
270	219	.060	.090	259	379	270	375	.091	.089	197	440						
270	220	.040	.108	293	388	270	376	.076	.088	222	405						
270	221	.065	.107	266	388	270	377	.075	.091	221	351						
270	222	.008	.103	315	388	270	378	.077	.091	254	350						
270	223	.065	.091	273	424	270	379	.063	.091	256	383						
270	224	.059	.089	261	381	270	380	.062	.090	220	469						
270						270	381	.054	.106								

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CP	MEAN	CP RMS	CP MAX	CP MIN	WD	TAP	CP	MEAN	CP RMS	CP MAX	CP MIN	WD	TAP	CP	MEAN	CP RMS	CP MAX	CP MIN	WD	TAP	CP	MEAN	CP RMS	CP MAX	CP MIN
2770	382	-	180	120	2246	747	270	511	-	051	129	779	334	270	561	-	002	102	422	324							
2770	383	-	181	120	2229	689	270	512	-	005	111	572	456	270	562	-	068	114	641	363							
2770	384	-	139	105	194	529	270	513	-	123	103	307	623	270	563	-	083	101	453	265							
2770	385	-	108	090	232	398	270	514	-	090	106	408	491	270	564	-	021	094	331	220							
2770	386	-	104	091	232	453	270	515	-	012	120	533	359	270	565	-	025	091	291	345							
2770	387	-	082	090	252	396	270	516	-	084	136	727	377	270	566	-	023	101	344	359							
2770	388	-	065	091	229	394	270	517	-	115	143	742	271	270	567	-	057	107	361	401							
2770	389	-	070	094	229	437	270	518	-	029	139	766	425	270	568	-	016	111	473	375							
2770	390	-	074	094	229	429	270	519	-	055	112	522	445	270	569	-	058	101	384	312							
2770	391	-	171	118	229	425	270	520	-	099	101	300	489	270	570	-	040	096	350	307							
2770	392	-	139	103	219	553	270	521	-	014	120	442	466	270	571	-	002	092	363	226							
2770	393	-	094	092	217	457	270	522	-	087	135	839	358	270	572	-	041	096	314	337							
2770	394	-	094	093	259	400	270	523	-	064	139	801	435	270	573	-	022	098	349	355							
2770	395	-	093	091	259	413	270	524	-	042	116	548	314	270	574	-	070	105	330	394							
2770	396	-	075	092	302	392	270	525	-	033	096	320	354	270	575	-	108	096	494	255							
2770	397	-	065	089	302	330	270	526	-	090	098	278	449	270	576	-	077	105	539	255							
2770	398	-	064	089	233	358	270	527	-	110	101	256	452	270	577	-	060	101	532	267							
2770	399	-	196	119	149	343	270	528	-	046	124	476	361	270	578	-	058	098	439	270							
2770	400	-	163	113	163	344	270	529	-	081	124	554	357	270	579	-	010	099	385	357							
2770	401	-	188	124	199	392	270	530	-	081	126	541	347	270	580	-	023	095	407	253							
2770	402	-	107	101	233	557	270	531	-	036	119	501	407	270	581	-	011	092	360	271							
2770	403	-	101	093	256	398	270	532	-	046	099	283	426	270	582	-	048	094	340	314							
2770	404	-	101	094	265	432	270	533	-	054	098	315	381	270	583	-	046	098	428	367							
2770	405	-	081	091	286	414	270	534	-	080	103	339	422	270	584	-	103	106	272	501							
2770	406	-	060	091	318	382	270	535	-	063	111	795	308	270	585	-	123	110	268	543							
2770	407	-	060	089	216	408	270	536	-	075	117	551	256	270	586	-	133	132	321	064							
2770	408	-	067	089	244	357	270	537	-	090	124	555	297	270	587	-	236	179	238	245							
2770	409	-	133	101	199	567	270	538	-	035	105	378	278	270	588	-	246	156	213	453							
2770	410	-	096	092	199	453	270	539	-	018	099	269	332	270	589	-	286	133	090	827							
2770	411	-	101	099	248	437	270	540	-	061	102	325	467	270	590	-	309	167	157	286							
2770	412	-	096	100	225	391	270	541	-	062	110	475	372	270	591	-	266	149	178	418							
2770	413	-	068	098	263	375	270	542	-	175	105	643	163	270	592	-	136	118	229	629							
2770	414	-	093	099	293	340	270	543	-	105	110	550	258	270	593	-	153	114	193	608							
2770	415	-	109	105	218	521	270	544	-	046	111	574	332	270	594	-	145	126	287	609							
2770	416	-	031	092	112	445	270	545	-	016	092	346	350	270	595	-	199	138	222	768							
2770	417	-	099	099	221	436	270	546	-	050	103	412	421	270	596	-	240	152	193	837							
2770	418	-	064	099	224	393	270	547	-	069	105	395	424	270	597	-	305	162	144	870							
2770	419	-	057	099	248	357	270	548	-	001	120	447	584	270	598	-	262	149	241	870							
2770	420	-	011	099	253	300	270	549	-	027	120	502	482	270	599	-	201	139	193	710							
2770	421	-	045	099	253	417	270	550	-	084	120	498	401	270	600	-	192	134	263	608							
2770	5501	-	153	146	746	602	270	551	-	010	115	525	497	270	601	-	128	111	203	594							
2770	5502	-	000	143	632	477	270	552	-	029	101	270	425	270	602	-	116	116	279	765							
2770	5503	-	034	152	759	467	270	553	-	038	104	366	514	270	603	-	223	147	245	879							
2770	5504	-	012	161	698	509	270	554	-	051	110	550	589	270	604	-	128	121	313	495							
2770	5505	-	044	129	578	387	270	555	-	062	117	536	439	270	605	-	073	164	698	384							
2770	5506	-	099	129	650	650	270	556	-	038	116	628	312	270	606	-	134	135	420	701							
2770	5507	-	099	129	578	650	270	557	-	079	111	600	253	270	607	-	171	126	185	987							
2770	5508	-	099	136	470	468	270	558	-	017	102	362	305	270	608	-	210	137	242	883							
2770	5509	-	078	139	627	446	270	559	-	020	099	261	384	270	609	-	199	145	310	537							
2770	5510	-	072	139	659	403	270	560	-	064	106	441	373	270	610	-	151	171	899	323							

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	828	.097	.108	.351	.616	280	125	.075	.096	.220	.400	280	176	.355	.209	.159	-1.559
280	829	.197	.134	.332	.919	280	126	.011	.091	.309	.304	280	177	.104	.098	.213	-1.490
290	830	.176	.139	.311	.741	280	127	.184	.120	.184	.694	280	178	.081	.094	.224	-1.464
300	831	.084	.158	.780	.426	280	128	.152	.112	.177	.644	280	179	.301	.173	.173	-1.399
310	832	.132	.130	.385	.633	280	129	.074	.093	.203	.425	280	180	.211	.138	.217	-1.399
320	833	.192	.127	.207	.769	280	130	.020	.088	.261	.353	280	181	.085	.091	.199	-1.331
330	834	.131	.111	.211	.646	280	131	.040	.092	.276	.384	280	182	.163	.129	.243	-1.328
340	835	.101	.108	.225	.548	280	132	.029	.091	.306	.292	280	183	.122	.093	.207	-1.431
350	836	.110	.105	.209	.508	280	133	.069	.111	.296	.526	280	184	.049	.100	.278	-1.364
360	837	.110	.105	.209	.508	280	134	.111	.115	.252	.494	280	185	.024	.097	.296	-1.340
370	838	.171	.126	.215	.666	280	135	.111	.115	.252	.494	280	186	.025	.097	.296	-1.349
380	839	.197	.143	.256	.840	280	136	.185	.122	.228	.568	280	187	.068	.100	.264	-1.396
390	840	.117	.107	.248	.499	280	137	.109	.110	.282	.474	280	188	.031	.095	.284	-1.388
400	841	.088	.101	.262	.523	280	138	.182	.116	.196	.656	280	189	.029	.096	.280	-1.380
410	842	.179	.146	.262	.032	280	139	.097	.091	.277	.453	280	190	.044	.099	.273	-1.441
420	843	.095	.143	.483	.722	280	140	.082	.094	.314	.453	280	191	.084	.109	.239	-1.486
430	844	.233	.137	.100	.900	280	141	.178	.112	.198	.725	280	192	.112	.109	.247	-1.631
440	845	.166	.115	.283	.589	280	142	.190	.118	.157	.570	280	193	.101	.104	.227	-1.513
450	846	.089	.105	.340	.562	280	143	.094	.094	.204	.399	280	201	.117	.102	.210	-1.434
460	847	.119	.172	.994	.435	280	144	.179	.111	.198	.688	280	202	.091	.098	.291	-1.484
470	848	.122	.107	.258	.463	280	145	.112	.096	.211	.427	280	203	.017	.092	.343	-1.370
480	849	.094	.129	.569	.523	280	146	.051	.094	.243	.374	280	204	.058	.091	.226	-1.380
490	850	.096	.121	.286	.489	280	147	.213	.120	.146	.683	280	205	.087	.093	.203	-1.444
500	851	.144	.120	.241	.556	280	148	.200	.113	.166	.632	280	206	.015	.088	.259	-1.432
510	852	.184	.113	.169	.567	280	149	.088	.092	.347	.470	280	207	.090	.098	.396	-1.292
520	853	.144	.111	.201	.626	280	150	.033	.095	.233	.411	280	208	.058	.093	.247	-1.426
530	854	.117	.117	.189	.696	280	151	.037	.096	.294	.345	280	209	.088	.095	.243	-1.473
540	855	.099	.096	.286	.509	280	152	.027	.102	.267	.334	280	210	.017	.090	.273	-1.378
550	856	.093	.105	.253	.553	280	153	.044	.102	.309	.387	280	211	.088	.094	.216	-1.439
560	857	.039	.096	.370	.353	280	154	.159	.120	.256	.604	280	212	.061	.088	.209	-1.391
570	858	.091	.098	.239	.487	280	155	.234	.134	.153	.816	280	213	.094	.091	.183	-1.469
580	859	.030	.105	.379	.730	280	156	.243	.127	.129	.754	280	214	.024	.084	.234	-1.362
590	860	.143	.125	.262	.734	280	157	.241	.128	.149	.750	280	215	.087	.097	.230	-1.409
600	861	.148	.127	.218	.880	280	158	.131	.094	.193	.438	280	216	.061	.088	.224	-1.339
610	862	.192	.127	.203	.803	280	159	.079	.088	.189	.412	280	217	.061	.088	.186	-1.399
620	863	.122	.121	.211	.717	280	160	.259	.134	.080	.810	280	218	.031	.087	.242	-1.380
630	864	.089	.095	.215	.472	280	161	.103	.115	.218	.694	280	219	.094	.094	.199	-1.383
640	865	.094	.094	.263	.458	280	162	.099	.096	.064	.921	280	220	.056	.096	.263	-1.473
650	866	.034	.100	.258	.507	280	163	.088	.096	.352	.900	280	221	.028	.093	.287	-1.383
660	867	.074	.103	.281	.507	280	164	.244	.150	.206	.1	280	222	.096	.099	.232	-1.453
670	868	.036	.103	.327	.613	280	165	.266	.144	.150	.900	280	223	.056	.096	.263	-1.383
680	869	.149	.120	.325	.646	280	166	.089	.096	.415	.384	280	224	.093	.093	.201	-1.412
690	870	.184	.123	.294	.680	280	167	.077	.095	.272	.406	280	225	.095	.094	.246	-1.362
700	871	.143	.115	.339	.670	280	168	.077	.098	.277	.384	280	226	.070	.089	.208	-1.369
710	872	.190	.118	.320	.778	280	169	.068	.100	.306	.424	280	227	.106	.091	.198	-1.430
720	873	.091	.118	.212	.442	280	170	.037	.097	.326	.343	280	228	.041	.088	.293	-1.460
730	874	.089	.088	.318	.283	280	171	.052	.097	.329	.380	280	229	.105	.102	.246	-1.431
740	875	.190	.126	.218	.027	280	172	.033	.096	.254	.371	280	230	.085	.098	.223	-1.459
750	876	.173	.118	.226	.671	280	173	.077	.103	.283	.551	280	231	.074	.098	.218	-1.424
760	877	.038	.093	.240	.358	280	174	.144	.142	.346	.852	280	232	.114	.101	.186	-1.404
770	878	.039	.100	.307	.431	280	175	.022	.178	.156	.967	280	233	.043	.093	.235	-1.369

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2800	2333	.004	.065	350	263	2800	338	.090	.095	225	411	2800	390	.082	.099	281	424
2800	2334	.094	.087	196	436	2800	339	.087	.094	210	393	2800	391	.123	.100	210	477
2800	2335	.075	.096	273	458	2800	340	.157	.110	180	676	2800	392	.154	.109	193	499
2800	2336	.106	.084	176	364	2800	341	.169	.113	172	694	2800	393	.115	.099	206	474
2800	2337	.035	.088	255	355	2800	342	.165	.107	153	557	2800	394	.110	.098	290	428
2800	2338	.070	.089	241	356	2800	343	.142	100	152	487	2800	395	.097	.095	302	410
2800	2339	.039	.088	289	350	2800	344	.126	.099	214	478	2800	396	.089	.097	346	402
2800	240	.086	.091	234	359	2800	345	.118	.096	198	454	2800	397	.075	.092	356	375
2800	241	.116	.086	194	416	2800	346	.103	.092	205	422	2800	398	.084	.092	205	363
2800	242	.086	.098	221	375	2800	347	.085	.090	213	417	2800	399	.151	.100	164	592
2800	243	.075	.100	252	402	2800	348	.086	.094	190	391	2800	400	.155	.102	155	612
2800	244	.020	.093	275	338	2800	349	.089	.095	215	382	2800	401	.140	.103	225	538
2800	245	.129	.102	287	515	2800	350	.093	.094	208	404	2800	402	.139	.098	162	502
2800	301	.050	.105	290	614	2800	351	.151	.091	105	523	2800	403	.118	.098	174	513
2800	302	.185	.125	209	972	2800	352	.024	.094	237	503	2800	404	.098	.096	184	420
2800	303	.175	.123	160	704	2800	353	.147	.102	198	589	2800	405	.089	.092	196	389
2800	304	.150	.110	208	675	2800	354	.140	.103	145	569	2800	406	.071	.091	222	361
2800	305	.153	.119	176	927	2800	355	.146	.099	184	488	2800	407	.084	.090	250	425
2800	306	.123	.122	240	936	2800	356	.130	.098	165	491	2800	408	.091	.095	187	428
2800	307	.135	.111	244	665	2800	357	.114	.094	201	514	2800	409	.139	.099	160	524
2800	308	.116	.106	258	509	2800	358	.088	.093	215	501	2800	410	.129	.097	181	495
2800	309	.107	.107	231	620	2800	359	.091	.093	199	430	2800	411	.118	.089	194	426
2800	310	.099	.089	237	416	2800	361	.084	.091	209	406	2800	412	.088	.088	214	398
2800	311	.101	.104	231	521	2800	362	.142	.104	226	727	2800	413	.076	.086	208	364
2800	312	.107	.103	201	439	2800	363	.145	.102	234	578	2800	414	.060	.088	256	357
2800	313	.099	.094	182	413	2800	364	.137	.103	192	505	2800	415	.114	.094	193	405
2800	314	.100	.105	221	657	2800	365	.120	.101	223	478	2800	416	.127	.097	189	437
2800	315	.168	.116	166	672	2800	366	.105	.098	200	470	2800	417	.130	.099	196	466
2800	316	.164	.123	243	992	2800	367	.087	.095	206	464	2800	418	.054	.093	284	389
2800	317	.199	.122	189	745	2800	368	.095	.095	224	401	2800	419	.073	.097	269	433
2800	318	.159	.116	242	773	2800	369	.091	.095	235	439	2800	420	.066	.091	326	329
2800	319	.164	.122	221	955	2800	370	.091	.095	225	470	2800	421	.067	.098	253	391
2800	320	.131	.120	222	696	2800	372	.157	.099	186	518	2800	501	.003	.146	548	457
2800	321	.154	.112	242	643	2800	373	.159	.102	229	505	2800	502	.035	.155	798	432
2800	322	.112	.103	206	472	2800	374	.130	.101	256	482	2800	503	.110	.160	784	307
2800	323	.102	.102	220	499	2800	375	.113	.099	275	442	2800	504	.090	.162	800	344
2800	324	.098	.104	207	579	2800	376	.092	.097	277	399	2800	505	.054	.153	725	402
2800	325	.147	.105	207	544	2800	377	.096	.099	219	407	2800	506	.088	.137	442	480
2800	326	.107	.102	258	471	2800	378	.086	.098	228	387	2800	507	.043	.122	472	426
2800	327	.099	.096	213	468	2800	379	.083	.096	221	400	2800	508	.060	.155	714	376
2800	328	.102	.097	232	394	2800	380	.073	.091	218	414	2800	509	.149	.145	757	304
2800	329	.144	.104	165	572	2800	381	.016	.092	296	399	2800	510	.161	.150	676	234
2800	330	.157	.104	160	609	2800	382	.146	.103	228	582	2800	511	.151	.140	709	260
2800	331	.131	.101	209	483	2800	383	.165	.100	140	620	2800	512	.083	.137	745	334
2800	332	.131	.104	209	573	2800	384	.149	.109	194	541	2800	513	.045	.123	472	446
2800	333	.123	.101	213	552	2800	385	.139	.099	168	459	2800	514	.046	.110	485	474
2800	334	.105	.100	191	516	2800	386	.119	.099	189	456	2800	515	.079	.130	613	344
2800	335	.083	.098	205	465	2800	387	.107	.098	185	440	2800	516	.158	.136	688	289
2800	336	.082	.097	255	405	2800	388	.088	.095	214	403	2800	517	.233	.147	899	316
2800	337	.090	.096	242	398	2800	389	.088	.100	251	431	2800	518	.166	.149	915	215

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2800	519	.093	.118	3324	3329	2800	904	-.127	.118	319	-.558						
2800	520	-.077	.101	3308	3333	2800	905	-.238	.140	319	-.791						
2800	521	.043	.127	3374	3344	2800	907	-.305	.185	394	-1.128						
2800	522	.155	.132	3696	3333	2800	908	-.149	.113	244	-.528						
2800	523	.218	.159	3862	3333	2800	909	-.110	.100	201	-.485						
2800	524	.203	.139	3851	3333	2800	910	-.227	.161	316	-1.126						
2800	525	.064	.102	3483	3333	2800	911	-.073	.155	640	-.576						
2800	526	-.090	.099	3243	3333	2800	912	-.355	.154	069	-1.140						
2800	527	-.091	.100	3252	3333	2800	913	-.179	.140	344	-.721						
2800	528	.067	.137	3322	3333	2800	914	-.109	.108	255	-.581						
2800	529	.131	.154	3700	3333	2800	915	-.235	.195	201	-.285						
2800	530	.198	.134	3830	3333	2800	916	-.153	.111	211	-.630						
2800	531	.177	.142	3848	3333	2800	917	-.154	.140	444	-.775						
2800	532	.061	.104	3424	3333	2800	918	-.117	.137	411	-.599						
2800	533	-.052	.101	3362	3333	2800	919	-.232	.148	242	-1.021						
2800	534	.101	.103	3673	3333	2800	920	-.187	.122	238	-.834						
2800	535	.042	.127	3473	3333	2800	921	-.165	.119	276	-.631						
2800	536	.123	.128	3586	3333	2800	922	-.233	.142	229	-.741						
2800	537	.208	.128	3757	3333	2900	101	-.108	.101	243	-.447						
2800	538	.176	.133	3559	3333	2900	102	-.066	.097	226	-.418						
2800	539	.016	.098	3417	3333	2900	103	-.034	.099	314	-.382						
2800	540	-.083	.098	3304	3333	2900	104	-.074	.098	273	-.433						
2800	541	-.051	.117	3492	3333	2900	105	-.034	.098	369	-.299						
2800	542	.217	.110	3629	3333	2900	106	-.113	.120	283	-.748						
2800	543	.207	.141	3735	3333	2900	107	-.112	.129	372	-.772						
2800	544	.167	.133	3821	3333	2900	108	-.167	.133	233	-.834						
2800	545	.007	.102	3433	3333	2900	109	-.061	.122	328	-.723						
2800	546	-.054	.108	3312	3333	2900	110	-.107	.099	397	-.407						
2800	547	.089	.105	3470	3333	2900	111	-.031	.095	472	-.341						
2800	548	.002	.152	3777	3333	2900	112	-.052	.103	286	-.482						
2800	549	.053	.164	3738	3333	2900	113	-.063	.100	320	-.440						
2800	550	.150	.156	3794	3333	2900	114	-.042	.096	362	-.300						
2800	551	.134	.144	3655	3333	2900	115	-.106	.113	275	-.530						
2800	552	.027	.101	3317	3333	2900	116	-.120	.124	313	-.703						
2800	553	-.080	.100	3275	3333	2900	117	-.113	.117	249	-.744						
2800	554	.086	.100	3259	3333	2900	118	-.168	.120	151	-.820						
2800	555	.019	.119	3313	3333	2900	119	-.095	.101	259	-.459						
2800	556	.091	.116	3524	3333	2900	120	-.032	.090	326	-.313						
2800	557	.155	.113	3556	3333	2900	121	-.166	.124	240	-.732						
2800	558	.105	.127	3335	3333	2900	122	-.141	.110	245	-.696						
2800	559	.027	.097	3282	3333	2900	123	-.051	.095	263	-.391						
2800	560	.066	.097	3267	3333	2900	124	-.012	.102	319	-.431						
2800	561	.028	.121	3301	3333	2900	125	-.093	.099	228	-.453						
2800	562	.110	.113	3618	3333	2900	126	-.055	.093	354	-.267						
2800	563	.155	.122	3703	3333	2900	127	-.129	.114	216	-.580						
2800	564	.131	.118	3600	3333	2900	128	-.109	.108	195	-.730						
2800	565	.008	.092	3344	3333	2900	129	-.100	.099	216	-.473						
2800	566	.054	.097	3317	3333	2900	130	-.031	.099	274	-.364						
2800	567	.118	.099	3317	3333	2900	131	-.050	.099	265	-.411						
2800	568	.018	.105	3225	3333	2900	132	-.074	.095	400	-.299						

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	133	.063	.101	268	453	290	184	.026	.096	308	358	290	241	.141	.096	219	504
290	134	.058	.109	264	521	290	185	.002	.090	288	321	290	242	.076	.093	202	430
290	135	.149	.117	204	785	290	186	.011	.088	288	332	290	243	.079	.094	228	414
290	136	.031	.105	301	501	290	187	.069	.092	255	389	290	244	.030	.090	241	318
290	137	.142	.113	299	827	290	188	.025	.093	274	367	290	245	.162	.114	241	552
290	138	.099	.094	287	447	290	189	.019	.094	288	359	290	301	.036	.107	313	588
290	140	.088	.096	292	457	290	190	.036	.093	249	420	290	302	.164	.114	215	645
290	141	.144	.107	220	382	290	191	.083	.102	229	532	290	303	.185	.124	191	914
290	142	.120	.098	234	769	290	192	.078	.112	258	564	290	304	.148	.109	238	599
290	143	.095	.092	281	421	290	193	.061	.108	272	562	290	305	.151	.116	181	903
290	144	.141	.107	218	652	290	201	.131	.096	161	449	290	306	.121	.118	291	798
290	145	.125	.095	267	452	290	202	.109	.105	222	456	290	307	.144	.106	198	509
290	146	.054	.097	264	386	290	203	.004	.098	311	320	290	308	.117	.104	196	525
290	147	.147	.121	205	707	290	204	.077	.087	269	410	290	309	.118	.109	210	541
290	148	.139	.116	230	632	290	205	.112	.088	337	446	290	310	.131	.100	176	542
290	149	.080	.095	225	637	290	206	.001	.083	317	313	290	311	.088	.093	188	425
290	150	.094	.100	247	444	290	207	.111	.105	236	453	290	312	.137	.104	286	543
290	151	.040	.097	254	327	290	208	.070	.093	295	402	290	313	.100	.094	226	410
290	152	.018	.096	318	337	290	209	.110	.096	177	429	290	314	.126	.104	299	517
290	153	.028	.097	288	344	290	210	.000	.092	262	319	290	315	.141	.124	190	806
290	154	.120	.107	288	347	290	211	.112	.089	219	434	290	316	.141	.111	237	615
290	155	.167	.126	247	702	290	212	.064	.089	217	389	290	317	.188	.122	303	693
290	156	.172	.123	237	635	290	213	.110	.094	170	472	290	318	.143	.108	383	513
290	157	.175	.124	231	722	290	214	.004	.087	230	318	290	319	.140	.111	387	615
290	158	.139	.105	222	759	290	215	.114	.101	178	464	290	320	.110	.105	341	601
290	159	.079	.094	258	339	290	216	.060	.094	230	357	290	321	.136	.104	288	463
290	160	.166	.120	166	798	290	217	.121	.100	210	427	290	322	.117	.104	263	452
290	161	.029	.100	284	496	290	218	.022	.096	294	388	290	323	.117	.105	239	545
290	162	.220	.125	097	813	290	219	.113	.088	161	508	290	324	.123	.109	235	595
290	163	.086	.102	297	415	290	220	.056	.089	298	411	290	325	.174	.114	182	711
290	164	.153	.124	194	742	290	221	.118	.093	225	477	290	326	.137	.101	173	493
290	165	.178	.122	210	695	290	222	.022	.088	322	385	290	327	.112	.099	271	466
290	166	.074	.104	335	405	290	223	.129	.104	178	449	290	328	.116	.098	216	483
290	167	.073	.097	292	360	290	224	.107	.096	221	443	290	329	.122	.110	210	642
290	168	.066	.105	288	438	290	225	.078	.093	233	403	290	330	.144	.111	266	579
290	169	.055	.098	333	333	290	226	.130	.100	210	512	290	331	.123	.102	215	462
290	170	.013	.100	356	333	290	227	.043	.101	222	421	290	332	.116	.095	208	434
290	171	.053	.099	382	333	290	228	.144	.102	222	526	290	333	.097	.093	227	387
290	172	.024	.088	321	410	290	229	.099	.097	222	401	290	334	.091	.092	208	362
290	173	.040	.092	302	371	290	230	.080	.095	224	414	290	335	.081	.092	226	352
290	174	.096	.118	277	540	290	231	.140	.109	228	539	290	336	.090	.093	213	394
290	175	.246	.137	228	277	290	232	.055	.103	291	456	290	337	.089	.093	220	428
290	176	.237	.153	174	087	290	233	.015	.099	282	339	290	338	.107	.092	228	385
290	177	.091	.106	411	452	290	234	.113	.093	197	432	290	339	.114	.090	217	394
290	178	.069	.102	468	440	290	235	.083	.105	228	731	290	340	.127	.102	208	595
290	179	.235	.136	169	894	290	236	.139	.099	172	613	290	341	.124	.103	218	526
290	180	.147	.136	240	749	290	237	.059	.108	222	621	290	342	.131	.099	197	513
290	181	.063	.099	300	743	290	238	.077	.105	227	419	290	343	.122	.092	240	437
290	182	.115	.126	260	660	290	239	.047	.100	224	375	290	344	.120	.092	222	427
290	183	.106	.107	250	521	290	240	.112	.106	225	489	290	345	.101	.089	204	430

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
2990	346	.089	.088	.207	.381	2990	398	.091	.095	.281	.434	2990	527	.106	.098	.280	.449
2990	347	.086	.086	.227	.404	2990	399	.146	.115	.174	.885	2990	528	.066	.123	.637	.410
2990	348	.091	.091	.173	.405	2990	400	.157	.118	.182	.992	2990	529	.114	.135	.729	.304
2990	349	.090	.089	.189	.436	2990	401	.149	.116	.222	.643	2990	530	.186	.141	.791	.289
2990	350	.107	.091	.175	.411	2990	402	.130	.105	.189	.624	2990	531	.194	.131	.764	.207
2990	351	.141	.100	.163	.411	2990	403	.117	.096	.227	.457	2990	532	.099	.102	.489	.253
2990	352	.029	.113	.300	1.600	2990	404	.091	.096	.222	.440	2990	533	.022	.100	.371	.381
2990	353	.134	.111	.221	.654	2990	405	.083	.094	.222	.432	2990	534	.099	.105	.392	.461
2990	354	.145	.103	.194	.649	2990	406	.058	.093	.244	.402	2990	535	.057	.114	.502	.317
2990	355	.135	.096	.302	.470	2990	407	.081	.096	.222	.414	2990	536	.123	.121	.628	.230
2990	356	.115	.093	.319	.457	2990	408	.132	.098	.220	.419	2990	537	.220	.118	.722	.179
2990	357	.105	.092	.303	.448	2990	409	.113	.102	.204	.486	2990	538	.189	.112	.665	.177
2990	358	.095	.091	.283	.444	2990	410	.116	.095	.211	.440	2990	539	.028	.093	.412	.274
2990	359	.091	.088	.238	.444	2990	411	.122	.097	.164	.470	2990	540	.070	.101	.343	.473
2990	361	.095	.090	.193	.444	2990	412	.077	.095	.206	.413	2990	541	.092	.106	.574	.237
2990	362	.132	.112	.226	.444	2990	413	.062	.100	.208	.412	2990	542	.212	.107	.636	.105
2990	363	.149	.105	.169	.444	2990	414	.063	.100	.208	.421	2990	543	.192	.126	.708	.247
2990	364	.135	.101	.252	.444	2990	415	.105	.101	.222	.422	2990	544	.167	.128	.669	.182
2990	365	.109	.098	.244	.444	2990	416	.114	.095	.223	.427	2990	545	.031	.103	.438	.282
2990	366	.098	.096	.267	.422	2990	417	.131	.103	.172	.477	2990	546	.004	.102	.359	.313
2990	367	.086	.095	.267	.422	2990	418	.042	.094	.236	.368	2990	547	.064	.107	.316	.524
2990	368	.087	.094	.256	.444	2990	419	.056	.097	.222	.390	2990	548	.007	.128	.476	.711
2990	369	.084	.093	.239	.444	2990	420	.005	.092	.307	.303	2990	549	.071	.137	.714	.449
2990	370	.092	.093	.243	.444	2990	421	.069	.094	.228	.382	2990	550	.131	.123	.599	.566
2990	372	.152	.118	.287	.444	2990	422	.033	.136	.200	.523	2990	551	.174	.125	.707	.312
2990	373	.156	.105	.138	.451	2990	502	.015	.153	.697	.497	2990	552	.027	.106	.389	.368
2990	374	.116	.096	.189	.451	2990	503	.071	.156	.697	.398	2990	553	.051	.109	.406	.451
2990	375	.104	.095	.188	.444	2990	504	.073	.163	.688	.444	2990	554	.055	.108	.385	.451
2990	376	.093	.093	.192	.444	2990	505	.063	.146	.613	.377	2990	555	.029	.113	.583	.286
2990	377	.084	.095	.277	.407	2990	506	.081	.132	.454	.538	2990	556	.122	.121	.606	.246
2990	378	.071	.094	.263	.397	2990	507	.044	.118	.482	.436	2990	557	.168	.113	.739	.179
2990	379	.086	.094	.277	.407	2990	508	.017	.134	.543	.531	2990	558	.129	.121	.630	.246
2990	380	.076	.094	.312	.444	2990	509	.116	.148	.730	.273	2990	559	.012	.100	.392	.330
2990	381	.020	.101	.297	.444	2990	510	.142	.152	.804	.353	2990	560	.008	.102	.410	.370
2990	382	.148	.113	.210	.444	2990	511	.164	.145	.759	.226	2990	561	.055	.111	.513	.283
2990	383	.161	.112	.203	.444	2990	512	.106	.132	.939	.276	2990	562	.097	.109	.562	.197
2990	384	.155	.112	.243	.444	2990	513	.058	.118	.411	.426	2990	563	.136	.116	.743	.205
2990	385	.126	.090	.136	.444	2990	514	.052	.116	.443	.448	2990	564	.153	.112	.531	.180
2990	386	.096	.089	.152	.444	2990	515	.057	.122	.700	.336	2990	565	.065	.091	.343	.242
2990	387	.091	.086	.161	.444	2990	516	.121	.133	.767	.284	2990	566	.001	.102	.331	.334
2990	388	.073	.084	.170	.444	2990	517	.190	.147	.864	.247	2990	567	.099	.107	.241	.489
2990	389	.086	.101	.232	.444	2990	518	.164	.148	.909	.212	2990	568	.005	.100	.381	.342
2990	390	.081	.101	.291	.444	2990	519	.110	.120	.613	.261	2990	569	.100	.105	.499	.210
2990	391	.126	.109	.212	.444	2990	520	.056	.111	.409	.433	2990	570	.164	.100	.526	.123
2990	392	.145	.111	.261	.444	2990	521	.041	.117	.495	.555	2990	571	.086	.098	.453	.260
2990	393	.116	.102	.243	.444	2990	522	.130	.127	.613	.255	2990	572	.026	.102	.323	.404
2990	394	.112	.096	.243	.444	2990	523	.147	.140	.754	.247	2990	573	.020	.099	.341	.355
2990	395	.084	.091	.281	.444	2990	524	.195	.125	.664	.162	2990	574	.039	.100	.263	.409
2990	396	.077	.094	.311	.444	2990	525	.087	.103	.533	.272	2990	575	.124	.089	.467	.132
2990	397	.079	.092	.305	.444	2990	526	.082	.096	.305	.412	2990	576	.157	.104	.579	.207

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	577	.142	.108	.5549	-.260	290	913	-.185	.138	.299	-.843	300	142	-.063	.127	.390	-.621
290	578	.173	.103	.5513	-.239	290	914	-.134	.110	.280	-.613	300	143	-.104	.100	.216	-.431
290	579	.171	.104	.5591	-.265	290	915	-.215	.197	1.2227	-.348	300	144	-.078	.122	.346	-.624
290	580	.152	.103	.6558	-.198	290	916	-.173	.115	.252	-.625	300	145	-.145	.107	.202	-.502
290	581	.067	.102	.3733	-.272	290	917	-.155	.131	.214	-.657	300	146	-.051	.100	.374	-.364
290	582	.005	.111	.3348	-.377	290	918	-.103	.140	.567	-.523	300	147	-.051	.119	.318	-.481
290	583	.007	.097	.3326	-.354	290	919	-.221	.139	.205	-.971	300	148	-.067	.120	.385	-.557
290	801	.166	.125	.2332	-.662	290	920	-.191	.126	.185	-.654	300	149	-.081	.105	.434	-.554
290	802	.222	.142	.2334	-.662	290	921	-.159	.114	.224	-.605	300	150	-.072	.115	.381	-.459
290	803	.246	.164	.2331	-1.621	290	922	-.207	.136	.215	-.790	300	151	-.030	.110	.418	-.400
290	804	.300	.198	.2000	-1.372	300	101	-.116	.102	.279	-.452	300	152	-.004	.103	.404	-.338
290	805	.240	.151	.2339	-1.292	300	102	-.091	.127	.510	-.537	300	153	-.000	.105	.407	-.436
290	806	.262	.137	.1339	-.940	300	103	-.028	.104	.545	-.366	300	154	-.045	.121	.343	-.574
290	807	.265	.141	.2330	-1.681	300	104	-.067	.103	.455	-.480	300	155	-.041	.120	.332	-.462
290	808	.301	.170	.1555	-1.411	300	105	-.084	.094	.463	-.277	300	156	-.044	.129	.385	-.484
290	809	.237	.122	.1544	-.767	300	106	-.065	.112	.353	-.418	300	157	-.047	.131	.415	-.492
290	810	.254	.122	.1655	-.690	300	107	-.030	.116	.381	-.650	300	158	-.134	.119	.276	-.506
290	811	.227	.123	.1777	-.827	300	108	-.087	.122	.328	-.615	300	159	-.073	.101	.399	-.477
290	812	.258	.135	.1596	-1.016	300	109	-.050	.111	.399	-.451	300	160	-.082	.128	.274	-.838
290	813	.252	.139	.1789	-.997	300	110	-.105	.106	.2335	-.490	300	161	-.068	.121	.519	-.571
290	814	.299	.137	.1788	-.899	300	111	-.019	.107	.399	-.372	300	162	-.104	.137	.303	-.889
290	815	.299	.132	.1788	-.995	300	112	-.039	.113	.456	-.532	300	163	-.070	.116	.435	-.424
290	816	.305	.141	.1126	-1.796	300	113	-.046	.110	.444	-.438	300	164	-.036	.116	.351	-.481
290	817	.262	.123	.1533	-.662	300	114	-.101	.093	.485	-.177	300	165	-.067	.129	.344	-.702
290	818	.159	.115	.2666	-.632	300	115	-.052	.107	.342	-.472	300	166	-.040	.124	.456	-.429
290	819	.229	.151	.2400	-1.007	300	116	-.060	.121	.321	-.655	300	167	-.014	.108	.431	-.380
290	820	.327	.181	.1799	-1.331	300	117	-.030	.113	.313	-.471	300	168	-.044	.123	.467	-.559
290	821	.103	.140	.4511	-.356	300	118	-.084	.122	.280	-.709	300	169	-.020	.120	.502	-.385
290	822	.206	.139	.972	-.379	300	119	-.102	.103	.244	-.480	300	170	-.021	.110	.431	-.364
290	823	.160	.139	.410	-.647	300	120	-.068	.089	.364	-.253	300	171	-.002	.105	.405	-.347
290	824	.248	.142	.171	-.927	300	121	-.079	.124	.430	-.709	300	172	-.004	.101	.398	-.363
290	825	.327	.148	.272	-.936	300	122	-.086	.117	.466	-.604	300	173	-.006	.101	.365	-.395
290	826	.168	.154	.3887	-.827	300	123	-.054	.099	.298	-.418	300	174	-.014	.124	.396	-.541
290	827	.267	.194	.9886	-.290	300	124	-.050	.103	.397	-.380	300	175	-.055	.156	.405	-.852
290	828	.184	.126	.194	-.728	300	125	-.096	.104	.270	-.480	300	176	-.052	.184	.479	-1.094
290	829	.294	.153	.108	-1.080	300	126	-.091	.097	.477	-.251	300	177	-.076	.134	.421	-.549
290	830	.145	.148	.4066	-.800	300	127	-.052	.129	.338	-.523	300	178	-.037	.129	.457	-.446
290	831	.118	.169	.841	-.392	300	128	-.063	.119	.356	-.495	300	179	-.029	.161	.361	-.850
290	832	.171	.127	.261	-.648	300	129	-.109	.106	.2333	-.448	300	180	-.034	.133	.328	-.630
290	901	.174	.126	.219	-.799	300	130	-.030	.100	.304	-.365	300	181	-.062	.098	.303	-.439
290	902	.126	.112	.261	-.634	300	131	-.045	.105	.339	-.398	300	182	-.012	.129	.338	-.522
290	903	.131	.111	.2566	-.580	300	132	-.122	.094	.444	-.167	300	183	-.040	.107	.350	-.407
290	904	.170	.114	.2855	-.599	300	133	-.023	.100	.343	-.334	300	184	-.008	.104	.387	-.340
290	905	.185	.135	.3336	-.827	300	134	-.011	.103	.425	-.306	300	185	-.016	.092	.333	-.328
290	907	.236	.167	.3822	-1.097	300	135	-.069	.125	.402	-.572	300	186	-.011	.091	.314	-.334
290	908	.173	.117	.2553	-.570	300	136	-.067	.108	.558	-.363	300	187	-.017	.096	.337	-.354
290	909	.139	.109	.2505	-.480	300	137	-.078	.124	.308	-.788	300	188	-.004	.092	.314	-.334
290	910	.164	.145	.333	-.837	300	138	-.106	.099	.274	-.548	300	189	-.015	.091	.315	-.310
290	911	.025	.147	.562	-.550	300	140	-.107	.105	.308	-.518	300	190	-.012	.086	.270	-.287
290	912	.297	.151	.161	-.914	300	141	-.084	.123	.348	-.517	300	191	-.031	.098	.343	-.339

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3000	192	.009	.106	.324	.403	3000	304	.132	.111	.270	.546	3000	3354	.144	.100	.205	.499
3000	193	.001	.102	.324	.368	3000	305	.141	.119	.216	.739	3000	3355	.123	.098	.179	.528
3000	200	.159	.115	.252	.566	3000	306	.106	.114	.258	.715	3000	3356	.099	.095	.194	.450
3000	201	.022	.106	.350	.557	3000	307	.133	.107	.204	.555	3000	3357	.089	.095	.195	.424
3000	202	.023	.098	.453	.551	3000	308	.106	.101	.255	.499	3000	3358	.090	.095	.186	.440
3000	203	.098	.105	.214	.673	3000	309	.112	.106	.287	.471	3000	3359	.089	.091	.194	.429
3000	204	.135	.106	.201	.525	3000	310	.135	.099	.219	.542	3000	3360	.094	.092	.167	.447
3000	205	.024	.095	.338	.334	3000	311	.159	.114	.232	.577	3000	3361	.111	.102	.190	.501
3000	206	.128	.106	.304	.535	3000	312	.151	.104	.199	.535	3000	3362	.155	.103	.157	.512
3000	207	.082	.094	.238	.429	3000	313	.147	.104	.244	.504	3000	3363	.123	.093	.159	.490
3000	208	.130	.097	.210	.466	3000	314	.138	.108	.227	.564	3000	3364	.093	.092	.217	.445
3000	209	.082	.087	.340	.293	3000	315	.118	.117	.242	.682	3000	3365	.090	.092	.254	.441
3000	210	.036	.108	.235	.549	3000	316	.121	.109	.232	.641	3000	3366	.091	.089	.257	.439
3000	211	.084	.092	.274	.396	3000	317	.160	.118	.312	.663	3000	3367	.085	.099	.228	.483
3000	212	.138	.093	.179	.332	3000	318	.137	.104	.234	.495	3000	3368	.078	.098	.246	.449
3000	213	.016	.089	.293	.350	3000	319	.137	.110	.244	.667	3000	3369	.093	.102	.269	.473
3000	214	.136	.105	.246	.476	3000	320	.103	.102	.345	.508	3000	3370	.133	.107	.212	.558
3000	215	.060	.094	.261	.394	3000	321	.134	.101	.280	.497	3000	3371	.151	.106	.154	.603
3000	216	.132	.101	.225	.549	3000	322	.108	.105	.314	.526	3000	3372	.100	.098	.267	.433
3000	217	.004	.097	.273	.336	3000	323	.112	.108	.308	.575	3000	3373	.100	.098	.217	.423
3000	218	.054	.112	.200	.651	3000	324	.120	.112	.299	.547	3000	3374	.091	.098	.224	.438
3000	219	.154	.099	.353	.386	3000	325	.186	.119	.258	.651	3000	3375	.076	.093	.224	.382
3000	220	.127	.109	.263	.561	3000	326	.149	.106	.166	.598	3000	3376	.063	.093	.238	.644
3000	221	.000	.100	.399	.399	3000	327	.133	.100	.192	.525	3000	3377	.071	.095	.275	.333
3000	222	.157	.100	.333	.723	3000	328	.117	.098	.238	.441	3000	3378	.078	.095	.222	.516
3000	223	.069	.097	.274	.511	3000	329	.104	.105	.220	.474	3000	3379	.020	.092	.283	.339
3000	224	.146	.109	.425	.569	3000	330	.121	.099	.173	.488	3000	3380	.140	.111	.271	.686
3000	225	.112	.112	.425	.554	3000	331	.118	.093	.165	.467	3000	3381	.153	.109	.198	.333
3000	226	.197	.133	.251	.835	3000	332	.114	.091	.169	.477	3000	3382	.154	.108	.166	.592
3000	227	.102	.101	.217	.442	3000	333	.082	.088	.222	.387	3000	3383	.119	.102	.191	.322
3000	228	.074	.106	.263	.449	3000	334	.080	.089	.221	.377	3000	3384	.082	.097	.218	.444
3000	229	.195	.135	.201	.875	3000	335	.084	.091	.244	.359	3000	3385	.070	.096	.236	.430
3000	230	.064	.128	.301	.571	3000	336	.094	.099	.242	.469	3000	3386	.082	.096	.246	.449
3000	231	.041	.099	.311	.440	3000	337	.087	.098	.244	.463	3000	3387	.085	.100	.259	.406
3000	232	.110	.099	.311	.344	3000	338	.115	.101	.237	.547	3000	3388	.077	.100	.261	.430
3000	233	.083	.114	.313	.496	3000	339	.134	.100	.233	.556	3000	3389	.128	.108	.226	.683
3000	234	.192	.126	.174	.534	3000	340	.126	.099	.228	.614	3000	3390	.118	.115	.298	.558
3000	235	.080	.154	.303	.956	3000	341	.114	.099	.240	.618	3000	3391	.111	.100	.207	.448
3000	236	.073	.154	.216	.439	3000	342	.126	.096	.206	.489	3000	3392	.105	.102	.227	.451
3000	237	.037	.097	.248	.355	3000	343	.127	.093	.152	.416	3000	3393	.067	.097	.283	.426
3000	238	.191	.106	.191	.595	3000	344	.111	.100	.250	.481	3000	3394	.050	.100	.298	.414
3000	239	.181	.099	.140	.643	3000	345	.081	.097	.291	.436	3000	3395	.086	.102	.282	.448
3000	240	.078	.108	.316	.446	3000	346	.078	.088	.274	.430	3000	3396	.098	.105	.265	.554
3000	241	.099	.099	.292	.446	3000	347	.065	.099	.278	.452	3000	3397	.139	.121	.206	.828
3000	242	.075	.099	.371	.288	3000	348	.094	.099	.253	.438	3000	3398	.140	.124	.200	.827
3000	243	.091	.099	.350	.288	3000	349	.086	.089	.235	.449	3000	3399	.148	.117	.216	.652
3000	244	.117	.111	.159	.676	3000	350	.114	.093	.212	.489	3000	400	.136	.111	.196	.568
3000	245	.007	.098	.305	.365	3000	351	.117	.092	.144	.413	3000	401	.107	.107	.200	.490
3000	246	.144	.111	.205	.572	3000	352	.014	.099	.294	.466	3000	402	.074	.101	.248	.490
3000	247	.172	.122	.219	.638	3000	353	.115	.103	.186	.544	3000	403	.057	.100	.247	.62

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
000	405	.085	.101	.259	.444	300	802	.180	.124	.263	-.866						
000	406	.085	.098	.258	.444	300	803	.196	.139	.215	-.109						
000	407	.122	.100	.199	.473	300	804	.241	.154	.232	-1.091						
000	408	.106	.107	.252	.473	300	805	.215	.146	.212	-.972						
000	409	.114	.102	.252	.487	300	806	.229	.124	.157	-.955						
000	410	.113	.098	.183	.497	300	807	.221	.129	.159	-.902						
000	411	.055	.093	.225	.341	300	808	.249	.167	.236	-1.695						
000	412	.040	.092	.274	.330	300	809	.186	.115	.157	-.695						
000	413	.074	.094	.246	.398	300	810	.210	.115	.176	-.572						
000	414	.097	.097	.211	.422	300	811	.191	.122	.376	-.614						
000	415	.104	.093	.214	.440	300	812	.226	.125	.252	-.729						
000	416	.110	.102	.202	.431	300	813	.227	.126	.246	-.799						
000	417	.049	.092	.297	.431	300	814	.272	.125	.169	-.745						
000	418	.064	.095	.262	.373	300	815	.228	.121	.138	-.822						
000	419	.064	.087	.351	.324	300	816	.233	.121	.172	-.779						
000	420	.065	.097	.298	.349	300	817	.200	.109	.192	-.621						
000	421	.027	.123	.450	.376	300	818	.149	.098	.205	-.579						
000	422	.000	.121	.499	.380	06	819	.180	.124	.183	-.716						
000	423	.020	.122	.694	.355	06	820	.240	.142	.174	-.941						
000	424	.020	.158	.658	.317	06	821	.068	.142	.482	-.584						
000	425	.092	.147	.684	.322	06	822	.139	.184	.251	-.318						
000	426	.094	.134	.537	.327	06	823	.129	.129	.402	-.577						
000	427	.049	.121	.549	.342	06	824	.208	.136	.373	-.337						
000	428	.055	.113	.549	.344	06	825	.246	.137	.199	-1.037						
000	429	.071	.114	.489	.305	06	826	.128	.152	.588	-.700						
000	430	.128	.124	.621	.332	06	827	.236	.180	.520	-.249						
000	431	.103	.127	.634	.332	06	828	.163	.111	.190	-.850						
000	432	.000	.118	.507	.341	06	829	.233	.127	.160	-1.022						
000	433	.058	.116	.411	.317	06	830	.120	.140	.440	-.643						
000	434	.033	.105	.426	.282	06	831	.073	.162	.926	-.345						
000	435	.076	.109	.457	.269	06	832	.156	.121	.304	-.626						
000	436	.117	.125	.653	.263	06	901	.113	.123	.434	-.871						
000	437	.202	.142	.790	.338	06	902	.114	.114	.277	-.644						
000	438	.126	.119	.725	.337	06	903	.150	.120	.219	-.728						
000	439	.066	.103	.271	.423	06	904	.183	.129	.192	-.823						
000	440	.028	.102	.443	.309	06	905	.101	.126	.314	-.633						
000	441	.099	.106	.601	.229	06	907	.124	.143	.279	-.822						
000	442	.169	.126	.788	.239	06	908	.162	.113	.179	-.555						
000	443	.184	.132	.792	.165	06	909	.156	.112	.250	-.566						
000	444	.083	.105	.447	.233	06	910	.115	.132	.585	-.743						
000	445	.082	.099	.256	.396	06	911	.028	.127	.496	-.656						
000	446	.028	.103	.327	.347	06	912	.232	.126	.225	-.742						
000	447	.040	.105	.489	.352	06	913	.153	.119	.246	-.615						
000	448	.069	.107	.536	.404	06	914	.136	.112	.307	-.527						
000	449	.129	.134	.784	.430	06	915	.172	.197	.000	-.295						
000	450	.166	.137	.739	.250	06	916	.157	.111	.228	-.808						
000	451	.063	.111	.447	.285	06	917	.140	.119	.274	-.704						
000	452	.063	.102	.295	.403	06	918	.096	.122	.453	-.498						
000	453	.119	.104	.260	.450	06	919	.201	.123	.298	-.646						
000	454	.119	.104	.260	.450	06	920	.189	.120	.237	-.730						

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3000	921	.146	.116	.214	.639	333	150	.012	.099	.411	.340	310	207	.105	.103	.272	.569
3000	922	.181	.130	.201	.819	333	151	.008	.107	.438	.327	310	208	.143	.105	.286	.572
3310	101	.083	.130	.380	.694	333	152	.015	.101	.401	.317	310	209	.126	.099	.233	.475
3310	102	.030	.142	.487	.576	333	153	.034	.102	.393	.318	310	210	.103	.099	.284	.543
3310	103	.004	.154	.612	.472	333	154	.074	.095	.396	.296	310	211	.101	.103	.253	.463
3310	104	.009	.147	.681	.433	333	155	.042	.097	.363	.334	310	212	.137	.099	.219	.479
3310	105	.013	.147	.645	.444	333	156	.052	.112	.426	.371	310	213	.128	.099	.218	.446
3310	106	.016	.133	.830	.422	333	157	.063	.118	.481	.518	310	214	.113	.097	.258	.403
3310	107	.004	.127	.864	.426	333	158	.052	.104	.297	.409	310	215	.108	.103	.292	.524
3310	108	.002	.124	.788	.629	333	159	.054	.109	.356	.412	310	216	.119	.103	.240	.529
3310	109	.004	.125	.765	.604	333	160	.052	.138	.470	.586	310	217	.127	.102	.249	.525
3310	110	.079	.120	.467	.450	333	161	.186	.105	.681	.229	310	218	.117	.105	.258	.530
3310	111	.023	.134	.562	.423	333	162	.115	.135	.680	.425	310	219	.114	.103	.297	.413
3310	112	.017	.136	.605	.404	333	163	.064	.119	.503	.450	310	220	.110	.100	.269	.459
3310	113	.038	.145	.766	.422	333	164	.049	.106	.377	.427	310	221	.140	.105	.235	.483
3310	114	.042	.138	.623	.388	333	165	.059	.132	.422	.857	310	222	.132	.107	.222	.624
3310	115	.032	.126	.589	.333	333	166	.050	.121	.504	.427	310	223	.117	.109	.258	.572
3310	116	.028	.127	.677	.333	333	167	.090	.108	.666	.288	310	224	.095	.096	.227	.471
3310	117	.007	.125	.679	.439	333	168	.069	.116	.486	.440	310	225	.132	.101	.157	.622
3310	118	.012	.125	.687	.333	333	169	.035	.108	.328	.386	310	226	.150	.111	.155	.569
3310	119	.094	.110	.321	.487	333	170	.021	.111	.455	.344	310	227	.155	.119	.210	.759
3310	120	.055	.116	.412	.474	333	171	.118	.105	.533	.217	310	228	.173	.122	.181	.813
3310	121	.028	.125	.563	.441	333	172	.038	.094	.419	.364	310	229	.081	.097	.209	.433
3310	122	.017	.121	.503	.483	333	173	.029	.090	.371	.295	310	230	.138	.111	.261	.515
3310	123	.101	.107	.431	.531	333	174	.066	.091	.375	.331	310	231	.169	.127	.210	.756
3310	124	.164	.110	.560	.76	333	175	.143	.098	.512	.354	310	232	.163	.130	.229	.790
3310	125	.089	.104	.372	.487	333	176	.079	.126	.502	.621	310	233	.066	.100	.238	.488
3310	126	.009	.112	.507	.419	333	177	.116	.127	.521	.554	310	234	.105	.093	.235	.466
3310	127	.040	.115	.473	.489	333	178	.067	.119	.540	.465	310	235	.135	.112	.228	.689
3310	128	.014	.118	.490	.76	333	179	.158	.109	.539	.399	310	236	.149	.102	.167	.617
3310	129	.075	.101	.254	.501	333	180	.069	.110	.513	.333	310	237	.142	.122	.258	.805
3310	130	.045	.102	.273	.466	333	181	.067	.096	.212	.464	310	238	.053	.099	.289	.488
3310	131	.005	.105	.361	.393	333	182	.078	.100	.465	.362	310	239	.076	.100	.279	.410
3310	132	.034	.107	.412	.314	333	183	.025	.094	.331	.300	310	240	.118	.107	.238	.611
3310	133	.044	.116	.661	.340	333	184	.013	.100	.450	.379	310	241	.205	.106	.097	.604
3310	134	.043	.111	.460	.314	333	185	.036	.098	.551	.341	310	242	.079	.099	.260	.420
3310	135	.050	.119	.491	.414	333	186	.044	.096	.558	.328	310	243	.077	.102	.289	.430
3310	136	.046	.128	.594	.432	333	187	.133	.095	.657	.226	310	244	.102	.108	.308	.508
3310	137	.036	.127	.544	.466	333	188	.056	.102	.669	.266	310	245	.200	.123	.157	.672
3310	138	.102	.102	.288	.469	333	189	.048	.098	.369	.266	310	301	.061	.095	.352	.473
3310	140	.004	.102	.348	.326	333	190	.056	.091	.348	.219	310	302	.107	.103	.244	.556
3310	141	.047	.120	.602	.486	333	191	.149	.091	.478	.156	310	303	.132	.115	.230	.689
3310	142	.040	.117	.456	.500	333	192	.047	.097	.387	.241	310	304	.105	.105	.261	.422
3310	143	.103	.093	.188	.465	333	193	.034	.096	.368	.261	310	305	.114	.109	.279	.589
3310	144	.054	.120	.549	.531	333	201	.185	.115	.199	.637	310	306	.082	.103	.251	.422
3310	145	.056	.092	.284	.390	333	202	.128	.112	.190	.637	310	307	.113	.104	.253	.472
3310	146	.021	.102	.409	.358	333	203	.117	.110	.228	.666	310	308	.091	.099	.268	.472
3310	147	.042	.108	.474	.317	333	204	.145	.110	.229	.666	310	309	.115	.114	.232	.810
3310	148	.051	.122	.463	.463	333	205	.123	.106	.561	.633	310	310	.139	.107	.164	.688
3310	149	.061	.109	.319	.424	333	206	.109	.104	.241	.482	310	311	.221	.119	.161	.839

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	312	159	113	230	537	310	363	122	108	218	612	310	414	076	106	333	515
310	313	151	120	206	767	310	364	108	097	255	486	310	415	085	098	240	490
310	314	152	121	247	709	310	365	076	093	279	410	310	416	088	094	286	406
310	315	088	102	279	656	310	366	062	093	286	370	310	417	082	101	260	489
310	316	082	101	245	516	310	367	082	096	303	380	310	418	052	101	290	420
310	317	136	111	251	885	310	368	076	093	207	394	310	419	043	097	323	375
310	318	114	105	248	555	310	369	071	092	206	432	310	420	044	101	293	410
310	319	116	108	213	522	310	370	079	094	211	410	310	421	057	098	304	383
310	320	088	106	294	451	310	372	103	096	247	480	310	501	014	130	489	829
310	321	115	105	261	472	310	373	123	107	278	535	310	502	019	116	504	460
310	322	091	103	306	468	310	374	083	098	227	431	310	503	022	111	611	321
310	323	105	109	290	639	310	375	071	099	311	442	310	504	133	117	717	196
310	324	119	118	309	767	310	376	085	102	335	449	310	505	032	140	648	477
310	325	183	123	254	851	310	377	071	100	260	397	310	506	093	124	384	538
310	326	160	123	190	627	310	378	052	099	251	395	310	507	041	113	421	419
310	327	136	109	211	541	310	379	061	102	263	461	310	508	119	118	707	570
310	328	132	103	196	690	310	380	068	089	257	338	310	509	024	108	417	387
310	329	092	094	239	430	310	381	083	090	372	244	310	510	034	107	538	348
310	330	084	091	200	462	310	382	103	104	275	486	310	511	054	120	615	371
310	331	110	093	188	462	310	383	114	100	194	478	310	512	077	129	624	371
310	332	102	098	206	520	310	384	124	109	235	604	310	513	082	105	479	330
310	333	071	095	241	418	310	385	101	101	257	481	310	514	048	106	379	493
310	334	058	095	243	422	310	386	067	099	303	453	310	515	019	110	431	513
310	335	079	099	249	436	310	387	056	097	314	442	310	516	051	114	443	569
310	336	087	101	323	504	310	388	075	099	293	461	310	517	062	102	452	341
310	337	081	100	337	484	310	389	074	098	250	377	310	518	190	115	725	218
310	338	110	105	337	588	310	390	062	098	262	416	310	519	089	126	579	320
310	339	152	108	305	496	310	391	113	104	266	554	310	520	071	101	288	449
310	340	099	100	236	471	310	392	098	104	200	459	310	521	047	119	588	583
310	341	079	098	248	451	310	393	103	102	223	524	310	522	076	112	493	274
310	342	079	096	254	427	310	394	093	100	329	531	310	523	172	106	636	170
310	343	106	097	260	488	310	395	057	094	324	467	310	524	098	121	534	258
310	344	099	091	172	393	310	396	043	096	368	438	310	525	036	105	431	312
310	345	066	088	214	363	310	397	079	100	368	473	310	526	071	090	252	387
310	346	052	088	234	342	310	398	080	100	245	422	310	527	048	088	353	251
310	347	081	091	247	373	310	399	100	103	215	568	310	528	031	122	490	562
310	348	089	103	238	421	310	400	099	105	308	487	310	529	050	107	520	424
310	349	082	101	232	421	310	401	117	111	263	781	310	530	045	105	470	306
310	350	112	105	223	451	310	402	113	106	233	502	310	531	075	137	636	399
310	351	084	080	173	392	310	403	096	105	238	460	310	532	022	129	505	481
310	352	079	083	368	222	310	404	066	103	268	479	310	533	067	097	291	389
310	353	081	102	270	465	310	405	046	099	250	431	310	534	135	101	339	466
310	354	115	106	226	538	310	406	067	102	240	474	310	535	028	117	416	542
310	355	113	098	248	433	310	407	072	104	258	456	310	536	058	103	434	420
310	356	078	094	262	353	310	408	139	111	210	547	310	537	012	108	384	293
310	357	065	092	247	374	310	409	086	108	232	499	310	538	068	121	617	311
310	358	086	095	240	370	310	410	094	104	199	548	310	539	036	102	321	389
310	359	078	101	262	504	310	411	097	107	296	453	310	540	078	094	228	409
310	361	077	100	278	499	310	412	041	101	339	415	310	541	003	114	364	478
310	362	082	103	278	461	310	413	035	099	348	380	310	542	210	086	498	175

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3310	8110	.163	.108	.202	.066	3320	107	.069	.158	.749	.456						
3310	8111	.156	.110	.181	.053	3320	108	.091	.170	.829	.461						
3310	8112	.198	.116	.207	.054	3320	109	.066	.191	.884	.460						
3310	8113	.206	.121	.215	.067	3320	110	.060	.101	.359	.406						
3310	8114	.244	.123	.201	.073	3320	111	.055	.108	.428	.436						
3310	8115	.205	.130	.236	.074	3320	112	.018	.111	.394	.440						
3310	8116	.179	.124	.212	.067	3320	113	.001	.114	.429	.445						
3310	8811	.168	.120	.235	.066	3320	114	.001	.119	.503	.343						
3310	8812	.182	.141	.240	.059	3320	115	.067	.135	.560	.352						
3310	8813	.159	.127	.338	.064	3320	116	.067	.150	.816	.511						
3310	8814	.127	.115	.339	.069	3320	117	.071	.165	.999	.531						
3310	8821	.024	.184	.749	.055	3320	118	.087	.185	.072	.568						
3310	8822	.012	.164	.681	.055	3320	119	.075	.101	.299	.436						
3310	8823	.114	.132	.390	.058	3320	120	.082	.099	.275	.429						
3310	8824	.149	.122	.332	.055	3320	121	.096	.174	.877	.553						
3310	8825	.149	.135	.366	.067	3320	122	.082	.177	.755	.500						
3310	8826	.002	.172	.003	.055	3320	123	.092	.106	.288	.390						
3310	8827	.082	.174	.778	.055	3320	124	.095	.183	.841	.622						
3310	8828	.164	.122	.000	.055	3320	125	.065	.104	.294	.361						
3310	8829	.129	.120	.509	.055	3320	126	.060	.106	.329	.348						
3310	8830	.004	.135	.608	.033	3320	127	.062	.141	.596	.444						
3310	8831	.009	.142	.610	.033	3320	128	.047	.183	.831	.774						
3310	8832	.166	.115	.179	.033	3320	129	.060	.096	.255	.382						
3310	9001	.085	.134	.364	.033	3320	130	.075	.098	.246	.403						
3310	9002	.102	.142	.450	.050	3320	131	.027	.100	.304	.367						
3310	9003	.164	.159	.400	.017	3320	132	.042	.101	.324	.409						
3310	9004	.211	.172	.371	.052	3320	133	.008	.104	.363	.300						
3310	9005	.029	.116	.435	.055	3320	134	.000	.109	.406	.368						
3310	9006	.028	.115	.497	.049	3320	135	.051	.121	.476	.411						
3310	9007	.147	.113	.219	.055	3320	136	.016	.139	.467	.528						
3310	9008	.153	.108	.217	.055	3320	137	.045	.154	.706	.615						
3310	9110	.037	.116	.416	.033	3320	138	.099	.100	.244	.435						
3310	9111	.040	.136	.715	.079	3320	140	.059	.089	.360	.253						
3310	9112	.132	.132	.447	.060	3320	141	.027	.142	.611	.551						
3310	9113	.149	.118	.290	.066	3320	142	.039	.159	.718	.527						
3310	9114	.139	.111	.225	.033	3320	143	.098	.098	.281	.451						
3310	9115	.027	.151	.577	.084	3320	144	.025	.142	.637	.481						
3310	9116	.135	.110	.275	.066	3320	145	.034	.087	.357	.310						
3310	9117	.113	.110	.528	.066	3320	146	.048	.095	.279	.437						
3310	9118	.105	.116	.413	.066	3320	147	.009	.117	.421	.476						
3310	9119	.148	.108	.171	.033	3320	148	.007	.139	.588	.497						
3310	9220	.151	.113	.199	.055	3320	149	.067	.096	.314	.432						
3310	9221	.110	.105	.246	.055	3320	150	.047	.082	.314	.276						
3310	9222	.134	.108	.229	.055	3320	151	.035	.094	.273	.410						
3320	1001	.068	.108	.227	.041	3320	152	.035	.097	.250	.421						
3320	1002	.045	.111	.471	.041	3320	153	.002	.097	.296	.395						
3320	1003	.037	.123	.472	.038	3320	154	.103	.091	.426	.239						
3320	1004	.002	.125	.498	.030	3320	155	.007	.099	.311	.343						
3320	1005	.009	.136	.512	.031	3320	156	.030	.116	.392	.541						
3320	1006	.065	.137	.576	.048	3320	157	.009	.120	.435	.533						

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CP	MEAN	CP	RMS	CP	MAX	CP	MIN	WD	TAP	CP	MEAN	CP	RMS	CP	MAX	CP	MIN	WD	TAP	CP	MEAN	CP	RMS	CP	MAX	CP	MIN
3220	158	-	011	-	081	-	279	-	257	3220	215	-	069	-	097	-	267	-	453	3220	320	-	116	-	107	-	256	-	569
3220	159	-	072	-	098	-	239	-	456	3220	216	-	108	-	090	-	161	-	474	3220	320	-	146	-	110	-	274	-	595
3220	160	-	040	-	123	-	438	-	765	3220	217	-	092	-	090	-	165	-	401	3220	320	-	108	-	114	-	232	-	523
3220	161	-	009	-	122	-	563	-	405	3220	218	-	096	-	090	-	187	-	418	3220	320	-	107	-	115	-	254	-	661
3220	162	-	088	-	108	-	578	-	499	3220	219	-	071	-	099	-	255	-	484	3220	320	-	088	-	109	-	272	-	660
3220	163	-	079	-	099	-	248	-	416	3220	220	-	113	-	099	-	292	-	487	3220	320	-	121	-	112	-	264	-	558
3220	164	-	011	-	106	-	520	-	339	3220	221	-	103	-	099	-	266	-	469	3220	320	-	089	-	107	-	332	-	495
3220	165	-	025	-	123	-	446	-	532	3220	222	-	098	-	098	-	261	-	471	3220	320	-	083	-	096	-	213	-	386
3220	166	-	073	-	098	-	233	-	401	3220	223	-	078	-	091	-	204	-	383	3220	320	-	070	-	095	-	237	-	394
3220	167	-	069	-	087	-	334	-	409	3220	224	-	087	-	100	-	275	-	434	3220	320	-	152	-	101	-	160	-	526
3220	168	-	069	-	095	-	232	-	406	3220	225	-	114	-	100	-	239	-	446	3220	320	-	104	-	100	-	286	-	440
3220	169	-	055	-	098	-	310	-	371	3220	226	-	103	-	101	-	234	-	450	3220	320	-	134	-	102	-	271	-	470
3220	170	-	012	-	095	-	282	-	322	3220	227	-	110	-	103	-	243	-	446	3220	320	-	119	-	097	-	233	-	476
3220	171	-	112	-	088	-	403	-	178	3220	228	-	098	-	101	-	279	-	486	3220	320	-	086	-	095	-	214	-	427
3220	172	-	014	-	097	-	335	-	368	3220	229	-	073	-	093	-	200	-	355	3220	320	-	073	-	095	-	223	-	431
3220	173	-	006	-	100	-	326	-	414	3220	230	-	108	-	098	-	197	-	413	3220	320	-	101	-	100	-	219	-	464
3220	174	-	033	-	102	-	375	-	334	3220	231	-	093	-	098	-	197	-	398	3220	320	-	101	-	109	-	295	-	506
3220	175	-	124	-	099	-	444	-	271	3220	232	-	100	-	098	-	196	-	414	3220	320	-	077	-	105	-	326	-	453
3220	176	-	024	-	116	-	559	-	448	3220	233	-	077	-	094	-	242	-	391	3220	320	-	069	-	104	-	319	-	444
3220	177	-	119	-	100	-	266	-	441	3220	234	-	081	-	089	-	268	-	374	3220	320	-	102	-	107	-	300	-	502
3220	178	-	067	-	095	-	308	-	387	3220	235	-	108	-	101	-	286	-	437	3220	320	-	122	-	098	-	225	-	495
3220	179	-	133	-	097	-	547	-	190	3220	236	-	090	-	087	-	209	-	430	3220	320	-	103	-	097	-	258	-	492
3220	180	-	031	-	111	-	481	-	437	3220	237	-	096	-	097	-	252	-	493	3220	320	-	100	-	093	-	250	-	432
3220	181	-	080	-	098	-	245	-	454	3220	238	-	058	-	094	-	242	-	355	3220	320	-	125	-	093	-	232	-	435
3220	182	-	041	-	110	-	387	-	383	3220	239	-	082	-	099	-	239	-	435	3220	320	-	114	-	098	-	210	-	491
3220	183	-	058	-	086	-	372	-	292	3220	240	-	080	-	101	-	273	-	432	3220	320	-	081	-	097	-	246	-	460
3220	184	-	019	-	098	-	311	-	338	3220	241	-	145	-	092	-	150	-	420	3220	320	-	070	-	099	-	249	-	481
3220	185	-	013	-	099	-	300	-	331	3220	242	-	081	-	096	-	305	-	405	3220	320	-	105	-	105	-	234	-	550
3220	186	-	014	-	095	-	326	-	294	3220	243	-	072	-	100	-	250	-	435	3220	320	-	095	-	100	-	276	-	471
3220	187	-	123	-	087	-	410	-	162	3220	244	-	084	-	101	-	233	-	435	3220	320	-	073	-	097	-	286	-	445
3220	188	-	020	-	097	-	337	-	321	3220	245	-	115	-	105	-	240	-	444	3220	320	-	071	-	098	-	313	-	450
3220	189	-	005	-	099	-	320	-	378	3220	301	-	111	-	107	-	260	-	526	3220	320	-	118	-	083	-	127	-	365
3220	190	-	033	-	089	-	321	-	296	3220	302	-	120	-	102	-	214	-	452	3220	320	-	090	-	098	-	218	-	414
3220	191	-	134	-	088	-	422	-	213	3220	303	-	155	-	122	-	291	-	191	3220	320	-	125	-	102	-	176	-	525
3220	192	-	022	-	105	-	335	-	347	3220	304	-	133	-	111	-	206	-	568	3220	320	-	139	-	106	-	224	-	508
3220	193	-	012	-	105	-	325	-	390	3220	305	-	120	-	120	-	202	-	698	3220	320	-	127	-	103	-	241	-	450
3220	201	-	161	-	103	-	235	-	597	3220	306	-	115	-	115	-	225	-	660	3220	320	-	093	-	100	-	287	-	405
3220	202	-	078	-	092	-	257	-	422	3220	307	-	152	-	124	-	229	-	683	3220	320	-	074	-	101	-	311	-	431
3220	203	-	099	-	091	-	248	-	451	3220	308	-	106	-	114	-	310	-	574	3220	320	-	105	-	105	-	252	-	505
3220	204	-	097	-	098	-	238	-	461	3220	309	-	104	-	114	-	262	-	641	3220	320	-	104	-	104	-	311	-	450
3220	205	-	077	-	097	-	264	-	428	3220	310	-	082	-	092	-	193	-	425	3220	320	-	073	-	095	-	274	-	534
3220	206	-	092	-	097	-	212	-	444	3220	311	-	041	-	090	-	299	-	403	3220	320	-	114	-	101	-	215	-	524
3220	207	-	067	-	091	-	276	-	434	3220	312	-	100	-	107	-	252	-	480	3220	320	-	140	-	104	-	219	-	537
3220	208	-	106	-	095	-	233	-	490	3220	313	-	103	-	100	-	217	-	466	3220	320	-	122	-	095	-	198	-	458
3220	209	-	081	-	095	-	233	-	458	3220	314	-	098	-	109	-	256	-	623	3220	320	-	089	-	091	-	229	-	414
3220	210	-	088	-	095	-	221	-	460	3220	315	-	132	-	109	-	227	-	695	3220	320	-	069	-	091	-	244	-	409
3220	211	-	067	-	097	-	248	-	412	3220	316	-	096	-	100	-	250	-	463	3220	320	-	096	-	095	-	218	-	429
3220	212	-	104	-	098	-	209	-	529	3220	317	-	171	-	115	-	212	-	660	3220	320	-	099	-	106	-	229	-	481
3220	213	-	083	-	098	-	222	-	503	3220	318	-	136	-	104	-	211	-	587	3220	320	-	089	-	101	-	246	-	425
3220	214	-	091	-	095	-	220	-	501	3220	319	-	142	-	110	-	227	-	587	3220	320	-	075	-	102	-	238	-	441

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3220	372	.115	.100	.208	.478	3220	501	.091	.179	.923	.514	3220	5531	.103	.107	.582	.359
3220	373	.138	.103	.227	.523	3220	502	.087	.169	.743	.406	3220	5532	.014	.101	.392	.413
3220	374	.093	.098	.249	.411	3220	503	.083	.130	.571	.371	3220	5533	.106	.105	.286	.475
3220	375	.088	.097	.245	.391	3220	504	.153	.114	.671	.294	3220	5534	.066	.100	.311	.422
3220	376	.087	.099	.232	.389	3220	505	.015	.144	.725	.471	3220	5535	.044	.111	.445	.464
3220	377	.076	.108	.231	.410	3220	506	.131	.134	.430	.579	3220	5536	.090	.097	.437	.300
3220	378	.064	.106	.233	.396	3220	507	.047	.117	.421	.451	3220	5537	.059	.095	.374	.323
3220	379	.056	.103	.260	.401	3220	508	.199	.137	.815	.419	3220	5538	.033	.112	.447	.401
3220	380	.089	.089	.231	.371	3220	509	.062	.149	.679	.374	3220	5539	.000	.095	.305	.411
3220	381	.087	.099	.212	.452	3220	510	.064	.119	.453	.341	3220	5540	.007	.096	.301	.365
3220	382	.138	.110	.218	.552	3220	511	.018	.116	.531	.392	3220	5541	.039	.101	.452	.354
3220	383	.120	.100	.216	.453	3220	512	.047	.134	.678	.432	3220	5542	.031	.106	.393	.381
3220	384	.146	.119	.219	.663	3220	513	.082	.105	.480	.263	3220	5543	.016	.100	.383	.381
3220	385	.117	.095	.211	.472	3220	514	.047	.110	.402	.581	3220	5544	.081	.107	.537	.258
3220	386	.093	.095	.219	.397	3220	515	.071	.136	.680	.570	3220	5545	.060	.091	.383	.293
3220	387	.083	.094	.220	.377	3220	516	.102	.121	.586	.383	3220	5546	.026	.105	.404	.376
3220	388	.088	.098	.220	.413	3220	517	.093	.182	.568	.239	3220	5547	.130	.114	.358	.597
3220	389	.082	.107	.220	.460	3220	518	.188	.095	.576	.118	3220	5548	.056	.104	.359	.266
3220	390	.065	.102	.269	.434	3220	519	.074	.117	.587	.315	3220	5549	.059	.098	.391	.276
3220	391	.181	.109	.269	.576	3220	520	.096	.107	.277	.577	3220	5550	.122	.093	.436	.195
3220	392	.110	.111	.296	.544	3220	521	.096	.137	.742	.544	3220	5551	.044	.105	.444	.311
3220	393	.115	.109	.236	.517	3220	522	.125	.117	.667	.288	3220	5552	.033	.109	.292	.440
3220	394	.094	.112	.239	.497	3220	523	.186	.097	.526	.208	3220	5553	.021	.102	.381	.412
3220	395	.058	.105	.249	.425	3220	524	.095	.113	.459	.315	3220	5554	.064	.098	.393	.400
3220	396	.047	.107	.240	.441	3220	525	.067	.115	.411	.377	3220	5555	.090	.104	.426	.223
3220	397	.085	.106	.234	.469	3220	526	.084	.101	.266	.447	3220	5556	.073	.101	.435	.262
3220	398	.077	.102	.227	.449	3220	527	.042	.092	.326	.273	3220	5557	.024	.104	.388	.340
3220	399	.123	.115	.223	.571	3220	528	.081	.122	.532	.386	3220	5558	.084	.097	.417	.211
3220	400	.120	.116	.215	.577	3220	529	.080	.119	.512	.472	3220	5559	.132	.095	.484	.201
3220	401	.147	.116	.202	.755	3220	530	.047	.117	.416	.295	3220	5560	.074	.101	.485	.267
3220	402	.142	.112	.250	.558	3220	531	.084	.112	.612	.305	3220	5561	.000	.103	.504	.373
3220	403	.116	.100	.247	.477	3220	532	.081	.103	.462	.328	3220	5562	.029	.102	.431	.381
3220	404	.077	.097	.263	.390	3220	533	.070	.104	.266	.400	3220	5563	.039	.092	.375	.301
3220	405	.048	.097	.288	.347	3220	534	.158	.109	.200	.506	3220	8001	.115	.115	.255	.499
3220	406	.071	.100	.289	.393	3220	535	.065	.121	.492	.522	3220	8002	.184	.142	.223	.887
3220	407	.067	.100	.297	.412	3220	536	.077	.111	.502	.295	3220	8003	.308	.222	.180	.416
3220	408	.138	.101	.250	.493	3220	537	.099	.112	.470	.221	3220	8004	.369	.195	.166	.313
3220	409	.101	.097	.248	.424	3220	538	.078	.111	.668	.285	3220	8005	.350	.157	.137	.082
3220	410	.121	.095	.219	.433	3220	539	.046	.103	.332	.393	3220	8006	.480	.182	.084	.460
3220	411	.109	.102	.218	.521	3220	540	.085	.099	.316	.434	3220	8007	.186	.139	.170	.015
3220	412	.045	.098	.277	.375	3220	541	.108	.109	.565	.298	3220	8008	.159	.133	.198	.097
3220	413	.022	.097	.294	.344	3220	542	.101	.112	.570	.272	3220	8009	.159	.133	.274	.691
3220	414	.071	.100	.266	.395	3220	543	.068	.100	.392	.320	3220	810	.210	.142	.256	.801
3220	415	.094	.101	.299	.402	3220	544	.023	.109	.422	.434	3220	811	.248	.149	.262	.229
3220	416	.102	.104	.228	.449	3220	545	.002	.097	.299	.361	3220	812	.334	.156	.216	.183
3220	417	.099	.096	.246	.520	3220	546	.010	.099	.280	.354	3220	813	.347	.157	.196	.164
3220	418	.098	.098	.273	.478	3220	547	.090	.099	.201	.406	3220	814	.379	.159	.180	.118
3220	419	.025	.097	.298	.454	3220	548	.036	.122	.380	.589	3220	815	.280	.148	.252	.921
3220	420	.048	.096	.325	.466	3220	549	.028	.119	.461	.544	3220	816	.211	.134	.174	.675
3220	421	.062	.102	.254	.453	3220	550	.047	.103	.513	.366	3220	817	.253	.149	.225	.805

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	818	153	127	269	728	3330	115	039	114	461	491	3330	166	055	109	478	408
3330	819	305	185	293	204	3330	116	112	136	467	699	3330	167	056	094	493	238
3330	820	242	155	382	924	3330	117	122	143	503	821	3330	168	057	099	324	355
3330	821	221	267	227	601	3330	118	106	156	536	912	3330	169	054	101	305	361
3330	822	290	187	692	731	3330	119	069	102	362	441	3330	170	022	099	338	342
3330	823	272	184	298	196	3330	120	178	105	358	505	3330	171	058	088	377	230
3330	824	184	129	231	781	3330	121	082	143	604	438	3330	172	031	104	367	371
3330	825	230	174	328	011	3330	122	097	150	461	748	3330	173	118	109	272	455
3330	826	253	260	518	411	3330	123	112	101	346	478	3330	174	081	113	294	479
3330	827	026	196	696	806	3330	124	085	148	694	820	3330	175	019	105	319	486
3330	828	295	168	239	187	3330	125	061	099	391	418	3330	176	108	110	263	453
3330	829	191	157	377	894	3330	126	171	104	275	566	3330	177	151	108	334	559
3330	830	330	227	210	489	3330	127	063	129	773	541	3330	178	061	100	401	412
3330	831	053	161	636	634	3330	128	148	146	500	723	3330	179	017	097	293	341
3330	832	301	301	246	969	3330	129	048	099	347	388	3330	180	072	112	336	506
3330	833	016	159	523	872	3330	130	084	102	565	406	3330	181	137	106	223	520
3330	834	025	143	467	816	3330	131	029	100	491	446	3330	182	080	112	345	458
3330	835	091	140	372	675	3330	132	156	101	187	487	3330	183	013	092	317	308
3330	836	152	132	320	770	3330	133	032	110	298	426	3330	184	035	097	270	414
3330	837	056	149	568	502	3330	134	101	113	247	597	3330	185	095	101	234	474
3330	838	087	165	736	449	3330	135	081	116	269	574	3330	186	022	095	299	385
3330	839	166	113	146	586	3330	136	232	128	188	757	3330	187	037	087	322	294
3330	840	099	110	306	574	3330	137	128	118	590	769	3330	188	027	100	317	391
3330	841	032	141	584	492	3330	138	125	101	210	595	3330	189	103	105	265	477
3330	842	222	230	282	429	3330	140	059	089	431	265	3330	190	033	095	257	355
3330	843	154	154	463	700	3330	141	101	122	293	625	3330	191	031	093	363	271
3330	844	266	157	271	031	3330	142	076	117	553	555	3330	192	057	098	252	445
3330	845	103	106	267	444	3330	143	118	108	694	720	3330	193	129	102	181	518
3330	846	042	156	568	538	3330	144	095	120	268	603	3330	201	159	108	181	741
3330	847	161	132	317	214	3330	145	043	094	578	270	3330	202	079	097	242	434
3330	848	159	138	381	696	3330	146	037	097	306	344	3330	203	182	106	169	552
3330	849	229	152	258	812	3330	147	136	107	273	508	3330	204	122	098	277	458
3330	850	199	128	283	555	3330	148	098	117	287	766	3330	205	078	097	309	674
3330	851	191	129	203	710	3330	149	063	096	331	406	3330	206	176	101	234	693
3330	852	140	107	246	444	3330	150	053	087	345	274	3330	207	069	097	244	587
3330	853	165	124	206	688	3330	151	036	094	224	344	3330	208	118	100	249	537
3330	101	069	102	417	443	3330	152	087	097	553	492	3330	209	076	098	284	466
3330	102	065	103	350	474	3330	153	087	094	314	411	3330	210	171	103	168	578
3330	103	101	107	288	528	3330	154	037	089	363	229	3330	211	071	096	331	576
3330	104	055	101	361	441	3330	155	076	097	237	418	3330	212	121	102	243	467
3330	105	158	118	433	620	3330	156	141	101	208	483	3330	213	084	102	273	437
3330	106	038	126	681	653	3330	157	076	097	257	445	3330	214	177	104	161	525
3330	107	101	140	419	703	3330	158	026	088	365	324	3330	215	073	102	243	481
3330	108	068	146	507	705	3330	159	057	103	446	380	3330	216	112	092	182	439
3330	109	209	167	371	114	3330	160	152	113	266	610	3330	217	081	092	231	412
3330	110	061	103	515	416	3330	161	052	103	553	433	3330	218	168	101	179	569
3330	111	099	109	437	477	3330	162	010	097	360	408	3330	219	080	104	286	502
3330	112	048	107	491	480	3330	163	060	109	388	430	3330	220	113	096	272	532
3330	113	044	104	348	441	3330	164	077	100	220	255	3330	221	084	096	268	519
3330	114	158	115	312	575	3330	165	146	114	234	26	3330	222	173	108	228	604

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	380	.082	.099	255	.586	3330	380	.042	.090	268	.383	3330	380	.042	.090	268	.383
3330	381	.068	.100	291	.440	3330	381	.083	.101	239	.573	3330	381	.083	.101	239	.573
3330	382	.118	.103	242	.466	3330	382	.100	.107	233	.540	3330	382	.100	.107	233	.540
3330	383	.089	.102	271	.441	3330	383	.096	.109	299	.492	3330	383	.096	.109	299	.492
3330	384	.172	.115	205	.764	3330	384	.100	.110	252	.683	3330	384	.100	.110	252	.683
3330	385	.100	.109	282	.375	3330	385	.079	.103	244	.439	3330	385	.079	.103	244	.439
3330	386	.058	.097	291	.439	3330	386	.086	.103	259	.469	3330	386	.086	.103	259	.469
3330	387	.121	.105	259	.469	3330	387	.066	.101	288	.465	3330	387	.066	.101	288	.465
3330	388	.103	.113	201	.822	3330	388	.063	.101	282	.449	3330	388	.063	.101	282	.449
3330	389	.177	.124	129	.078	3330	389	.049	.106	293	.389	3330	389	.049	.106	293	.389
3330	390	.117	.099	208	.469	3330	390	.074	.101	255	.446	3330	390	.074	.101	255	.446
3330	391	.064	.087	309	.552	3330	391	.155	.109	257	.555	3330	391	.155	.109	257	.555
3330	392	.118	.101	217	.460	3330	392	.097	.109	266	.567	3330	392	.097	.109	266	.567
3330	393	.091	.090	200	.604	3330	393	.083	.101	255	.418	3330	393	.083	.101	255	.418
3330	394	.166	.118	203	.861	3330	394	.069	.104	285	.405	3330	394	.069	.104	285	.405
3330	395	.047	.094	250	.666	3330	395	.075	.100	259	.400	3330	395	.075	.100	259	.400
3330	396	.091	.097	237	.336	3330	396	.053	.100	267	.368	3330	396	.053	.100	267	.368
3330	397	.074	.097	238	.336	3330	397	.060	.095	271	.358	3330	397	.060	.095	271	.358
3330	398	.154	.091	148	.466	3330	398	.057	.104	300	.389	3330	398	.057	.104	300	.389
3330	399	.057	.093	287	.376	3330	399	.110	.115	278	.683	3330	399	.110	.115	278	.683
3330	400	.057	.094	262	.435	3330	400	.099	.110	288	.774	3330	400	.099	.110	288	.774
3330	401	.118	.099	240	.472	3330	401	.074	.110	253	.688	3330	401	.074	.110	253	.688
3330	402	.096	.101	219	.411	3330	402	.105	.113	253	.534	3330	402	.105	.113	253	.534
3330	403	.082	.104	232	.479	3330	403	.074	.105	253	.415	3330	403	.074	.105	253	.415
3330	404	.099	.111	279	.807	3330	404	.082	.103	252	.430	3330	404	.082	.103	252	.430
3330	405	.113	.111	253	.606	3330	405	.061	.099	255	.369	3330	405	.061	.099	255	.369
3330	406	.104	.106	246	.478	3330	406	.061	.098	243	.359	3330	406	.061	.098	243	.359
3330	407	.109	.110	214	.461	3330	407	.039	.098	267	.383	3330	407	.039	.098	267	.383
3330	408	.085	.103	230	.461	3330	408	.133	.102	248	.502	3330	408	.133	.102	248	.502
3330	409	.102	.106	255	.481	3330	409	.088	.111	242	.521	3330	409	.088	.111	242	.521
3330	410	.067	.102	248	.434	3330	410	.091	.104	292	.505	3330	410	.091	.104	292	.505
3330	411	.070	.105	252	.501	3330	411	.078	.099	388	.489	3330	411	.078	.099	388	.489
3330	412	.064	.091	189	.385	3330	412	.074	.099	380	.460	3330	412	.074	.099	380	.460
3330	413	.030	.093	279	.770	3330	413	.043	.096	407	.427	3330	413	.043	.096	407	.427
3330	414	.088	.101	232	.434	3330	414	.062	.095	387	.401	3330	414	.062	.095	387	.401
3330	415	.099	.098	236	.610	3330	415	.070	.098	240	.453	3330	415	.070	.098	240	.453
3330	416	.086	.102	368	.430	3330	416	.069	.102	295	.478	3330	416	.069	.102	295	.478
3330	417	.101	.112	351	.463	3330	417	.076	.095	237	.379	3330	417	.076	.095	237	.379
3330	418	.075	.108	282	.378	3330	418	.081	.094	238	.406	3330	418	.081	.094	238	.406
3330	419	.118	.108	246	.530	3330	419	.036	.091	268	.364	3330	419	.036	.091	268	.364
3330	420	.101	.105	259	.484	3330	420	.088	.095	218	.423	3330	420	.088	.095	218	.423
3330	421	.098	.107	257	.478	3330	421	.040	.092	288	.365	3330	421	.040	.092	288	.365
3330	422	.076	.102	282	.436	3330	422	.001	.151	534	.566	3330	422	.001	.151	534	.566
3330	423	.096	.102	256	.444	3330	423	.003	.131	522	.451	3330	423	.003	.131	522	.451
3330	424	.069	.105	226	.430	3330	424	.025	.125	606	.372	3330	424	.025	.125	606	.372
3330	425	.073	.107	302	.556	3330	425	.068	.118	537	.403	3330	425	.068	.118	537	.403
3330	426	.069	.107	290	.404	3330	426	.023	.138	726	.437	3330	426	.023	.138	726	.437
3330	427	.098	.109	237	.494	3330	427	.158	.132	320	.642	3330	427	.158	.132	320	.642
3330	428	.085	.099	251	.770	3330	428	.029	.119	504	.447	3330	428	.029	.119	504	.447
3330	429	.077	.098	249	.828	3330	429	.076	.120	615	.337	3330	429	.076	.120	615	.337

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3330	509	023	122	474	441	3330	559	000	104	336	338	330	826	005	177	675	622
3330	510	033	117	459	356	3330	560	062	103	242	422	330	827	060	168	731	629
3330	511	037	117	440	440	3330	561	010	096	352	336	330	828	132	122	252	712
3330	512	059	125	555	355	3330	562	026	097	363	376	330	829	109	128	526	738
3330	513	030	106	538	325	3330	563	027	099	366	329	330	830	003	156	637	688
3330	514	031	122	401	428	3330	564	163	110	621	168	330	831	023	133	548	633
3330	515	071	122	381	458	3330	565	013	094	313	360	330	832	156	113	183	555
3330	516	058	115	555	324	3330	566	019	101	398	401	330	901	071	130	411	622
3330	517	077	109	500	265	3330	567	111	109	362	487	330	902	069	115	364	677
3330	518	140	103	555	158	3330	568	001	094	300	338	330	903	095	111	302	666
3330	519	108	112	666	266	3330	569	068	094	410	230	330	904	132	109	243	656
3330	520	112	108	666	473	3330	570	060	095	789	233	330	905	056	130	393	671
3330	521	111	124	266	473	3330	571	078	102	512	362	330	907	045	137	361	655
3330	522	005	122	633	564	3330	572	066	105	330	481	330	908	130	107	231	605
3330	523	072	094	555	291	3330	573	011	098	335	450	330	909	085	102	335	633
3330	524	127	122	650	214	3330	574	092	096	244	466	330	910	038	141	549	633
3330	525	008	094	491	392	3330	575	001	092	348	330	330	911	052	166	815	616
3330	526	053	107	538	461	3330	576	062	096	386	270	330	912	127	130	578	699
3330	527	099	099	538	379	3330	577	054	107	446	312	330	913	120	110	262	689
3330	528	042	115	538	422	3330	578	136	105	515	203	330	914	084	103	258	692
3330	529	042	108	538	339	3330	579	075	106	514	265	330	915	005	136	642	600
3330	530	012	106	538	357	3330	580	143	118	666	221	330	916	104	106	299	633
3330	531	113	113	555	281	3330	581	053	111	517	305	330	917	124	123	556	699
3330	532	091	102	433	236	3330	582	065	107	410	360	330	918	122	122	304	607
3330	533	044	105	377	439	3330	583	074	093	222	413	330	919	144	119	245	642
3330	534	132	112	305	533	3330	801	086	101	235	503	330	920	144	123	275	694
3330	535	003	102	295	395	3330	802	116	105	166	685	330	921	115	103	219	684
3330	536	039	101	413	282	3330	803	157	127	330	813	330	922	111	105	239	666
3330	537	101	098	400	219	3330	804	235	149	337	233	330	101	005	135	535	697
3330	538	130	121	666	232	3330	805	141	141	170	987	330	102	034	159	654	612
3330	539	027	103	333	426	3330	806	204	145	155	969	330	103	041	149	794	744
3330	540	058	101	333	432	3330	807	205	152	219	110	330	104	011	120	591	777
3330	541	010	094	333	340	3330	808	128	115	227	703	330	105	119	114	336	708
3330	542	038	097	364	251	3330	809	108	107	278	515	330	106	028	118	543	738
3330	543	076	105	419	296	3330	810	140	113	244	757	330	107	051	135	705	700
3330	544	089	129	663	286	3330	811	135	111	246	577	330	108	062	140	785	700
3330	545	018	107	460	337	3330	812	186	121	188	738	330	109	071	147	686	733
3330	546	038	104	338	432	3330	813	193	127	208	696	330	110	039	146	672	426
3330	547	070	113	338	438	3330	814	220	128	236	725	330	111	085	162	761	687
3330	548	063	111	333	452	3330	815	168	121	181	625	330	112	099	173	771	680
3330	549	063	106	333	395	3330	816	137	115	281	537	330	113	040	118	491	627
3330	550	126	110	460	260	3330	817	145	117	182	609	330	114	105	115	309	688
3330	551	096	120	605	323	3330	818	110	109	236	477	330	115	067	131	836	655
3330	552	003	097	356	336	3330	819	142	125	278	982	330	116	064	188	833	612
3330	553	096	105	289	474	3330	820	140	134	369	810	330	117	112	168	855	638
3330	554	045	099	324	387	3330	821	047	180	830	474	330	118	110	164	727	620
3330	555	001	095	345	351	3330	822	002	145	538	663	330	119	038	152	738	600
3330	556	012	090	355	274	3330	823	109	136	345	625	330	120	036	160	830	495
3330	557	071	104	441	309	3330	824	120	116	250	622	330	121	121	160	893	434
3330	558	096	131	441	325	3330	825	150	124	297	600	330	122	077	145	697	371

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	123	.044	.151	.551	.559	340	174	.040	.101	.379	.311	340	2331	.062	.102	.275	.416
340	124	.067	.157	.668	.508	340	175	.094	.117	.318	.471	340	2332	.153	.166	.165	.608
340	125	.061	.152	.641	.550	340	176	.042	.105	.478	.364	340	2333	.107	.092	.221	.417
340	126	.007	.185	.768	.708	340	177	.184	.104	.217	.544	340	2334	.046	.089	.236	.358
340	127	.120	.153	.765	.300	340	178	.041	.091	.318	.346	340	2335	.073	.102	.260	.437
340	128	.007	.148	.619	.444	340	179	.078	.110	.345	.521	340	2336	.059	.092	.231	.441
340	129	.021	.136	.655	.386	340	180	.036	.102	.424	.334	340	2337	.137	.106	.217	.549
340	130	.065	.155	.816	.333	340	181	.150	.100	.139	.530	340	2338	.036	.088	.265	.350
340	131	.102	.161	.778	.333	340	182	.073	.097	.586	.263	340	2339	.047	.087	.254	.355
340	132	.057	.137	.578	.444	340	183	.156	.101	.154	.339	340	2340	.052	.090	.241	.403
340	133	.060	.112	.540	.318	340	184	.011	.097	.480	.366	340	2241	.179	.097	.125	.549
340	134	.071	.115	.562	.666	340	185	.058	.108	.443	.457	340	2242	.046	.093	.302	.353
340	135	.103	.131	.725	.299	340	186	.050	.095	.364	.302	340	2243	.034	.097	.404	.340
340	136	.040	.138	.568	.466	340	187	.086	.108	.271	.508	340	2244	.101	.102	.287	.434
340	137	.089	.137	.727	.411	340	188	.051	.100	.510	.242	340	2245	.091	.103	.266	.488
340	138	.106	.142	.499	.155	340	189	.060	.109	.405	.400	340	301	.117	.101	.215	.471
340	140	.028	.175	.717	.444	340	190	.055	.091	.412	.230	340	302	.063	.097	.266	.363
340	141	.097	.143	.742	.366	340	191	.096	.107	.229	.458	340	303	.105	.102	.269	.433
340	142	.074	.132	.645	.308	340	192	.040	.093	.229	.478	340	304	.093	.109	.230	.456
340	143	.107	.139	.477	.333	340	193	.082	.101	.229	.355	340	305	.096	.112	.278	.626
340	144	.084	.130	.716	.444	340	201	.121	.120	.229	.955	340	306	.078	.107	.243	.520
340	145	.127	.138	.552	.321	340	202	.090	.123	.330	.739	340	307	.105	.107	.201	.434
340	146	.051	.140	.739	.333	340	203	.221	.132	.164	.174	340	308	.056	.110	.334	.424
340	147	.018	.130	.586	.429	340	204	.072	.107	.229	.628	340	309	.059	.111	.338	.502
340	148	.073	.116	.687	.425	340	205	.068	.111	.343	.527	340	310	.052	.093	.313	.398
340	149	.029	.105	.376	.308	340	206	.212	.125	.188	.747	340	311	.096	.103	.248	.568
340	150	.140	.118	.344	.222	340	207	.091	.126	.289	.703	340	312	.082	.121	.327	.708
340	151	.001	.108	.484	.221	340	208	.064	.099	.289	.492	340	313	.108	.113	.260	.722
340	152	.084	.109	.287	.444	340	209	.054	.102	.289	.333	340	314	.123	.137	.283	.853
340	153	.033	.097	.351	.222	340	210	.182	.112	.289	.826	340	315	.075	.102	.281	.524
340	154	.102	.105	.372	.444	340	211	.096	.129	.289	.977	340	316	.043	.094	.281	.345
340	155	.022	.101	.398	.333	340	212	.068	.095	.289	.417	340	317	.106	.108	.206	.503
340	156	.056	.121	.393	.333	340	213	.065	.099	.289	.519	340	318	.090	.106	.262	.621
340	157	.059	.113	.504	.333	340	214	.184	.104	.289	.580	340	319	.084	.105	.310	.544
340	158	.191	.115	.641	.333	340	215	.076	.111	.289	.578	340	320	.068	.102	.293	.418
340	159	.037	.106	.641	.333	340	216	.060	.096	.289	.384	340	321	.092	.103	.258	.446
340	160	.051	.125	.480	.444	340	217	.056	.099	.289	.444	340	322	.059	.105	.279	.420
340	161	.009	.129	.477	.333	340	218	.173	.111	.289	.911	340	323	.058	.104	.285	.423
340	162	.073	.133	.440	.444	340	219	.072	.104	.289	.640	340	324	.052	.102	.289	.413
340	163	.047	.103	.337	.444	340	220	.054	.090	.289	.365	340	325	.087	.107	.266	.498
340	164	.015	.100	.355	.333	340	221	.052	.094	.289	.378	340	326	.070	.110	.384	.554
340	165	.044	.132	.513	.333	340	222	.162	.104	.172	.597	340	327	.072	.115	.280	.795
340	166	.040	.099	.375	.444	340	223	.072	.116	.283	.971	340	328	.099	.106	.285	.524
340	167	.152	.111	.259	.444	340	224	.049	.091	.236	.341	340	329	.152	.102	.178	.581
340	168	.049	.096	.300	.641	340	225	.064	.092	.236	.336	340	330	.075	.093	.233	.392
340	169	.028	.097	.263	.444	340	226	.060	.094	.236	.351	340	331	.139	.100	.190	.501
340	170	.009	.097	.377	.333	340	227	.156	.101	.188	.628	340	332	.068	.093	.315	.378
340	171	.092	.116	.357	.444	340	228	.074	.106	.236	.521	340	333	.090	.094	.278	.409
340	172	.046	.101	.474	.333	340	229	.046	.092	.236	.323	340	334	.060	.091	.300	.417
340	173	.075	.110	.394	.444	340	230	.068	.098	.221	.347	340	335	.118	.096	.294	.425

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	336	.051	.089	.250	.306	340	388	.096	.098	.259	.440	340	517	.037	.097	.385	.318
340	337	.080	.092	.256	.419	340	389	.039	.097	.272	.386	340	518	.132	.108	.302	.592
340	338	.058	.093	.304	.367	340	390	.070	.099	.221	.428	340	519	.001	.104	.374	.427
340	339	.131	.103	.256	.550	340	391	.163	.118	.240	.539	340	520	.171	.109	.212	.605
340	340	.064	.103	.261	.537	340	392	.074	.103	.237	.472	340	521	.040	.158	.329	.019
340	341	.097	.105	.237	.598	340	393	.106	.103	.206	.524	340	522	.019	.116	.405	.607
340	342	.067	.101	.260	.532	340	394	.047	.106	.271	.420	340	523	.122	.112	.272	.515
340	343	.131	.107	.231	.579	340	395	.069	.105	.237	.453	340	524	.024	.100	.347	.309
340	344	.060	.096	.236	.424	340	396	.037	.103	.275	.391	340	525	.122	.107	.298	.466
340	345	.087	.099	.219	.462	340	397	.087	.106	.219	.457	340	526	.045	.093	.249	.378
340	346	.055	.095	.239	.422	340	398	.041	.097	.321	.380	340	527	.208	.104	.119	.527
340	347	.110	.100	.216	.515	340	399	.119	.106	.216	.475	340	528	.036	.128	.407	.577
340	348	.046	.093	.342	.344	340	400	.088	.104	.252	.451	340	529	.009	.128	.371	.633
340	349	.076	.094	.344	.382	340	401	.085	.114	.318	.586	340	530	.082	.109	.316	.394
340	350	.056	.097	.376	.393	340	402	.127	.108	.208	.501	340	531	.026	.098	.389	.699
340	351	.067	.086	.181	.338	340	403	.054	.103	.259	.494	340	532	.027	.099	.332	.401
340	352	.119	.103	.234	.521	340	404	.079	.108	.268	.448	340	533	.054	.097	.237	.554
340	353	.071	.104	.223	.468	340	405	.036	.101	.299	.401	340	534	.071	.097	.224	.372
340	354	.133	.101	.225	.459	340	406	.077	.108	.277	.448	340	535	.008	.130	.456	.735
340	355	.070	.098	.313	.462	340	407	.023	.099	.341	.376	340	536	.011	.118	.341	.753
340	356	.094	.100	.304	.505	340	408	.055	.086	.314	.412	340	537	.012	.099	.368	.994
340	357	.062	.097	.306	.455	340	409	.068	.104	.272	.479	340	538	.020	.100	.470	.330
340	358	.124	.103	.281	.543	340	410	.100	.102	.251	.489	340	539	.007	.097	.399	.335
340	359	.053	.093	.260	.468	340	411	.052	.094	.292	.405	340	540	.043	.097	.317	.666
340	361	.054	.091	.288	.430	340	412	.063	.098	.239	.429	340	541	.011	.130	.421	.833
340	362	.060	.105	.241	.451	340	413	.017	.094	.291	.351	340	542	.047	.106	.286	.554
340	363	.133	.100	.231	.516	340	414	.079	.094	.238	.434	340	543	.024	.096	.445	.294
340	364	.059	.095	.268	.366	340	415	.060	.097	.260	.378	340	544	.026	.098	.445	.307
340	365	.081	.097	.229	.382	340	416	.105	.100	.205	.458	340	545	.001	.096	.434	.320
340	366	.053	.095	.275	.347	340	417	.062	.094	.262	.367	340	546	.039	.100	.403	.383
340	367	.105	.100	.232	.429	340	418	.040	.093	.274	.355	340	547	.054	.095	.234	.499
340	368	.043	.094	.273	.354	340	419	.012	.093	.288	.330	340	548	.002	.111	.420	.636
340	369	.072	.097	.245	.399	340	420	.062	.095	.258	.366	340	549	.011	.107	.372	.337
340	370	.050	.096	.253	.465	340	421	.032	.097	.368	.351	340	550	.031	.094	.361	.287
340	372	.063	.099	.222	.452	340	501	.068	.142	.395	.762	340	551	.014	.098	.348	.337
340	373	.074	.099	.279	.529	340	502	.041	.138	.563	.778	340	552	.009	.100	.390	.325
340	374	.088	.101	.296	.529	340	503	.031	.104	.445	.338	340	553	.031	.101	.381	.377
340	375	.055	.100	.318	.515	340	504	.152	.118	.251	.569	340	554	.036	.100	.378	.357
340	376	.104	.106	.281	.623	340	505	.037	.107	.343	.425	340	555	.021	.115	.424	.414
340	377	.046	.092	.263	.391	340	506	.204	.112	.153	.619	340	556	.018	.106	.459	.331
340	378	.074	.092	.218	.413	340	507	.040	.097	.367	.375	340	557	.028	.099	.323	.352
340	379	.044	.090	.252	.362	340	508	.215	.154	.364	.083	340	558	.027	.101	.349	.317
340	380	.016	.090	.242	.505	340	509	.110	.143	.394	.931	340	559	.010	.096	.297	.338
340	381	.121	.106	.192	.285	340	510	.014	.103	.341	.317	340	560	.033	.099	.249	.081
340	382	.081	.112	.268	.415	340	511	.118	.112	.321	.574	340	561	.023	.098	.343	.273
340	383	.073	.095	.249	.464	340	512	.019	.102	.413	.413	340	562	.048	.119	.359	.502
340	384	.129	.101	.208	.465	340	513	.207	.111	.185	.554	340	563	.029	.091	.347	.266
340	385	.058	.092	.236	.364	340	514	.054	.095	.341	.670	340	564	.048	.092	.554	.261
340	386	.079	.095	.235	.424	340	515	.177	.161	.324	.020	340	565	.010	.091	.329	.305
340	387	.049	.092	.284	.348	340	516	.009	.128	.421	.709	340	566	.006	.099	.334	.364

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	567	.036	.102	446	.393	340	902	.092	.130	314	-.787	350	131	.097	.157	852	-.325
340	568	.030	.115	446	.467	340	903	.145	.146	315	-1.154	350	132	.028	.148	.682	-.397
340	569	.034	.096	343	.316	340	904	.143	.129	272	-.872	350	133	.059	.137	.656	-.368
340	570	.034	.096	343	.309	340	905	.014	.129	493	-.672	350	134	.081	.128	.696	-.336
340	571	.014	.092	340	.260	340	907	.037	.137	579	-.461	350	135	.110	.140	.739	-.352
340	572	.042	.093	340	.305	340	908	.125	.118	345	-.621	350	136	.048	.153	.711	-.415
340	573	.006	.091	340	.285	340	909	.081	.123	285	-.676	350	137	.080	.139	.717	-.346
340	574	.031	.096	340	.317	340	910	.002	.119	472	-.525	350	138	.149	.144	.392	-.583
340	575	.048	.119	340	.514	340	911	.163	.179	666	-.358	350	140	.100	.189	.696	-.595
340	576	.030	.100	331	.314	340	912	.039	.146	666	-.552	350	141	.103	.138	.709	-.296
340	577	.028	.098	333	.313	340	913	.134	.129	294	-.723	350	142	.068	.140	.692	-.481
340	578	.043	.095	330	.289	340	914	.068	.108	279	-.402	350	143	.153	.128	.376	-.594
340	579	.033	.100	332	.309	340	915	.080	.125	364	-.522	350	144	.080	.127	.641	-.325
340	580	.025	.090	337	.273	340	916	.095	.116	277	-.732	350	145	.196	.131	.413	-.613
340	581	.014	.090	336	.304	340	917	.103	.108	344	-.558	350	146	.023	.133	.694	-.368
340	582	.030	.089	329	.352	340	918	.151	.125	290	-.734	350	147	.059	.133	.523	-.554
340	583	.005	.091	333	.327	340	919	.098	.104	259	-.524	350	148	.061	.120	.620	-.350
340	801	.069	.100	344	.452	340	920	.100	.102	217	-.454	350	149	.035	.108	.368	-.384
340	802	.128	.123	220	.872	340	921	.086	.098	218	-.423	350	150	.192	.121	.311	-.548
340	803	.227	.179	220	.349	340	922	.091	.104	219	-.601	350	151	.011	.110	.486	-.370
340	804	.245	.161	220	.094	350	101	.009	.140	610	-.614	350	152	.115	.118	.390	-.547
340	805	.212	.144	220	.837	350	102	.082	.175	823	-.409	350	153	.025	.102	.400	-.298
340	806	.230	.163	238	.180	350	103	.104	.168	798	-.472	350	154	.153	.117	.246	-.573
340	807	.193	.189	330	.520	350	104	.061	.137	765	-.442	350	155	.002	.099	.341	-.413
340	808	.097	.117	330	.897	350	105	.035	.119	668	-.441	350	156	.104	.121	.375	-.492
340	809	.096	.115	333	.640	350	106	.009	.120	430	-.456	350	157	.032	.111	.485	-.349
340	810	.134	.122	337	.709	350	107	.057	.144	676	-.503	350	158	.244	.122	.240	-.753
340	811	.184	.130	333	.732	350	108	.068	.155	633	-.589	350	159	.041	.120	.477	-.455
340	812	.237	.139	300	.958	350	109	.013	.161	611	-.646	350	160	.103	.138	.685	-.536
340	813	.226	.139	310	.863	350	110	.040	.159	633	-.481	350	161	.123	.130	.372	-.515
340	814	.231	.138	179	.949	350	111	.119	.189	971	-.397	350	162	.147	.148	.573	-.618
340	815	.164	.125	191	.777	350	112	.119	.179	945	-.374	350	163	.056	.108	.335	-.409
340	816	.128	.115	270	.578	350	113	.089	.157	892	-.341	350	164	.008	.107	.336	-.432
340	817	.164	.126	255	.805	350	114	.016	.132	672	-.486	350	165	.128	.132	.495	-.571
340	818	.111	.113	220	.651	350	115	.038	.111	501	-.378	350	166	.046	.104	.310	-.400
340	819	.172	.146	274	.829	350	116	.003	.156	750	-.406	350	167	.195	.120	.351	-.633
340	820	.084	.160	616	.812	350	117	.121	.169	897	-.307	350	168	.054	.095	.264	-.331
340	821	.152	.199	666	.573	350	118	.110	.172	846	-.328	350	169	.037	.100	.354	-.471
340	822	.102	.148	658	.098	350	119	.027	.145	676	-.506	350	170	.006	.093	.328	-.273
340	823	.182	.136	192	.784	350	120	.037	.168	813	-.514	350	171	.131	.114	.271	-.559
340	824	.100	.111	246	.568	350	121	.116	.172	043	-.298	350	172	.037	.103	.493	-.271
340	825	.093	.146	424	.748	350	122	.083	.159	737	-.393	350	173	.095	.115	.345	-.440
340	826	.149	.200	620	.469	350	123	.045	.140	627	-.408	350	174	.019	.095	.346	-.286
340	827	.066	.149	560	.667	350	124	.025	.160	713	-.603	350	175	.156	.112	.222	-.562
340	828	.151	.131	260	.740	350	125	.042	.138	648	-.422	350	176	.002	.098	.473	-.315
340	829	.059	.144	331	.677	350	126	.067	.181	832	-.403	350	177	.192	.112	.213	-.659
340	830	.096	.161	177	.426	350	127	.116	.147	845	-.275	350	178	.036	.094	.286	-.455
340	831	.076	.127	337	.599	350	128	.004	.165	747	-.575	350	179	.143	.110	.271	-.488
340	832	.171	.121	207	.744	350	129	.005	.126	538	-.405	350	180	.002	.104	.341	-.366
340	901	.127	.155	302	.092	350	130	.069	.144	671	-.335	350	181	.167	.115	.200	-.611

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3350	182	.053	100	.402	.311	3350	330	.037	101	.314	.475	3350	344	.037	101	.314	.475
3350	183	.185	121	.272	.661	3350	344	.037	101	.314	.475	3350	344	.037	101	.314	.475
3350	184	.010	.095	.368	.266	3350	345	.055	102	.300	.485	3350	345	.055	102	.300	.485
3350	185	.071	112	.420	.388	3350	346	.034	100	.293	.383	3350	346	.034	100	.293	.383
3350	186	.056	.098	.455	.234	3350	347	.089	102	.235	.422	3350	347	.089	102	.235	.422
3350	187	.110	115	.382	.478	3350	348	.044	.097	.342	.362	3350	348	.044	.097	.342	.362
3350	188	.041	102	.406	.344	3350	349	.072	100	.317	.393	3350	349	.072	100	.317	.393
3350	189	.078	114	.318	.515	3350	350	.063	102	.266	.394	3350	350	.063	102	.266	.394
3350	190	.042	.094	.348	.283	3350	351	.037	.085	.254	.431	3350	351	.037	.085	.254	.431
3350	191	.121	116	.291	.570	3350	352	.183	110	.190	.728	3350	352	.183	110	.190	.728
3350	192	.010	.096	.317	.315	3350	353	.041	.097	.265	.430	3350	353	.041	.097	.265	.430
3350	193	.122	107	.220	.477	3350	354	.107	.095	.222	.429	3350	354	.107	.095	.222	.429
3350	201	.124	125	.242	.944	3350	355	.047	.097	.297	.374	3350	355	.047	.097	.297	.374
3350	202	.120	135	.242	.770	3350	356	.067	.097	.250	.379	3350	356	.067	.097	.250	.379
3350	203	.187	136	.160	.039	3350	357	.041	.096	.282	.412	3350	357	.041	.096	.282	.412
3350	204	.062	111	.350	.537	3350	358	.104	.097	.227	.412	3350	358	.104	.097	.227	.412
3350	205	.078	113	.341	.722	3350	359	.039	.091	.297	.364	3350	359	.039	.091	.297	.364
3350	206	.160	134	.244	.101	3350	361	.052	.095	.270	.624	3350	361	.052	.095	.270	.624
3350	207	.118	131	.225	.843	3350	362	.033	.098	.266	.425	3350	362	.033	.098	.266	.425
3350	208	.053	103	.324	.389	3350	363	.125	.093	.188	.459	3350	363	.125	.093	.188	.459
3350	209	.070	111	.315	.619	3350	364	.039	.096	.326	.351	3350	364	.039	.096	.326	.351
3350	210	.155	128	.298	.679	3350	365	.059	.098	.344	.345	3350	365	.059	.098	.344	.345
3350	211	.118	147	.284	.149	3350	366	.034	.096	.339	.416	3350	366	.034	.096	.339	.416
3350	212	.049	.097	.256	.416	3350	367	.116	.094	.249	.416	3350	367	.116	.094	.249	.416
3350	213	.064	105	.295	.569	3350	368	.037	.097	.294	.380	3350	368	.037	.097	.294	.380
3350	214	.141	109	.170	.563	3350	369	.070	.098	.261	.419	3350	369	.070	.098	.261	.419
3350	215	.116	135	.275	.892	3350	370	.050	.097	.279	.377	3350	370	.050	.097	.279	.377
3350	216	.044	101	.318	.494	3350	371	.038	100	.301	.412	3350	371	.038	100	.301	.412
3350	217	.060	106	.296	.658	3350	372	.044	.099	.290	.412	3350	372	.044	.099	.290	.412
3350	218	.134	123	.358	.878	3350	373	.054	.099	.268	.429	3350	373	.054	.099	.268	.429
3350	219	.088	110	.278	.670	3350	374	.054	.099	.268	.429	3350	374	.054	.099	.268	.429
3350	220	.045	.095	.282	.366	3350	375	.030	.097	.283	.409	3350	375	.030	.097	.283	.409
3350	221	.061	.097	.262	.452	3350	376	.115	.098	.184	.485	3350	376	.115	.098	.184	.485
3350	222	.124	114	.202	.642	3350	377	.021	.097	.327	.397	3350	377	.021	.097	.327	.397
3350	223	.091	135	.350	.580	3350	378	.054	.098	.299	.438	3350	378	.054	.098	.299	.438
3350	224	.052	.093	.229	.445	3350	379	.040	.098	.291	.432	3350	379	.040	.098	.291	.432
3350	225	.055	.094	.243	.445	3350	380	.023	.092	.288	.365	3350	380	.023	.092	.288	.365
3350	226	.074	.098	.247	.486	3350	381	.181	.111	.195	.636	3350	381	.181	.111	.195	.636
3350	227	.135	115	.221	.697	3350	382	.038	108	.356	.450	3350	382	.038	108	.356	.450
3350	228	.102	121	.244	.830	3350	383	.031	101	.285	.463	3350	383	.031	101	.285	.463
3350	229	.042	.093	.260	.366	3350	384	.138	101	.188	.545	3350	384	.138	101	.188	.545
3350	230	.053	.095	.236	.518	3350	385	.038	.099	.317	.451	3350	385	.038	.099	.317	.451
3350	231	.069	104	.260	.747	3350	386	.058	102	.321	.478	3350	386	.058	102	.321	.478
3350	232	.110	109	.225	.894	3350	387	.029	100	.328	.455	3350	387	.029	100	.328	.455
3350	233	.071	.096	.327	.410	3350	388	.126	100	.231	.545	3350	388	.126	100	.231	.545
3350	234	.049	.090	.266	.330	3350	389	.034	102	.316	.380	3350	389	.034	102	.316	.380
3350	235	.060	106	.312	.563	3350	390	.065	103	.289	.443	3350	390	.065	103	.289	.443
3350	236	.066	.094	.236	.438	3350	391	.134	116	.286	.573	3350	391	.134	116	.286	.573
3350	237	.106	115	.252	.227	3350	392	.046	103	.306	.458	3350	392	.046	103	.306	.458
3350	238	.044	.094	.340	.71	3350	393	.129	105	.240	.458	3350	393	.129	105	.240	.458
3350						3350	394	.025	100	.314	.429	3350	394	.025	100	.314	.429
3350						3350	395	.041	.099	.273	.425	3350	395	.041	.099	.273	.425

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
3550	396	.014	.097	300	.389	3550	525	.144	.109	289	.514	350	575	.171	.108	209	.522
3550	397	.128	.097	174	.500	3550	526	.036	.096	307	.340	350	576	.006	.095	346	.339
3550	398	.036	.104	300	.409	3550	527	.205	.112	212	.558	350	577	.008	.094	328	.318
3550	399	.076	.113	323	.468	3550	528	.075	.147	443	.698	350	578	.014	.090	326	.286
3550	400	.111	.111	353	.443	3550	529	.059	.134	329	.735	350	579	.052	.092	369	.263
3550	401	.038	.109	352	.564	3550	530	.130	.106	366	.509	350	580	.012	.100	338	.313
3550	402	.140	.106	243	.570	3550	531	.002	.097	397	.337	350	581	.000	.102	327	.310
3550	403	.032	.099	281	.394	3550	532	.002	.096	322	.316	350	582	.010	.099	330	.339
3550	404	.052	.099	369	.500	3550	533	.038	.097	366	.332	350	583	.062	.102	422	.293
3550	405	.014	.097	330	.388	3550	534	.053	.098	441	.358	350	801	.039	.108	374	.510
3550	406	.107	.096	255	.478	3550	535	.066	.140	354	.801	350	802	.113	.125	366	.878
3550	407	.021	.099	284	.318	3550	536	.016	.107	344	.568	350	803	.150	.154	338	.911
3550	408	.050	.095	254	.412	3550	537	.015	.098	366	.311	350	804	.152	.142	218	.869
3550	409	.030	.104	344	.404	3550	538	.015	.095	344	.321	350	805	.129	.132	299	.810
3550	410	.132	.098	331	.442	3550	539	.025	.092	339	.352	350	806	.166	.146	219	.098
3550	411	.026	.094	284	.394	3550	540	.036	.091	447	.354	350	807	.115	.158	314	.138
3550	412	.032	.094	377	.353	3550	541	.009	.122	322	.806	350	808	.062	.109	272	.567
3550	413	.153	.097	310	.344	3550	542	.165	.106	440	.566	350	809	.065	.110	330	.465
3550	414	.033	.092	148	.482	3550	543	.002	.100	333	.318	350	810	.129	.120	278	.657
3550	415	.109	.109	319	.444	3550	544	.002	.099	322	.310	350	811	.115	.118	233	.738
3550	416	.028	.098	267	.442	3550	545	.009	.099	333	.346	350	812	.137	.119	229	.659
3550	417	.029	.096	398	.337	3550	546	.005	.100	333	.337	350	813	.122	.119	291	.642
3550	418	.000	.095	244	.313	3550	547	.048	.098	358	.395	350	814	.152	.117	167	.727
3550	419	.016	.093	318	.291	3550	548	.037	.108	311	.520	350	815	.086	.110	232	.572
3550	420	.044	.092	273	.342	3550	549	.043	.114	311	.518	350	816	.067	.105	277	.526
3550	421	.036	.097	288	.399	3550	550	.001	.093	312	.316	350	817	.091	.110	275	.584
3550	501	.131	.158	301	.867	3550	551	.038	.094	348	.289	350	818	.104	.115	302	.756
3550	502	.065	.128	381	.726	3550	552	.017	.099	323	.373	350	819	.097	.120	410	.594
3550	503	.060	.097	371	.318	3550	553	.045	.101	290	.430	350	820	.011	.167	702	.535
3550	504	.173	.117	226	.388	3550	554	.036	.100	306	.400	350	821	.083	.170	899	.438
3550	505	.033	.096	371	.358	3550	555	.013	.101	321	.450	350	822	.127	.114	278	.511
3550	506	.201	.112	172	.622	3550	556	.020	.104	444	.412	350	823	.112	.138	296	.1069
3550	507	.030	.094	274	.355	3550	557	.010	.092	394	.314	350	824	.051	.110	308	.611
3550	508	.302	.180	249	.047	3550	558	.008	.090	321	.298	350	825	.017	.165	1	.584
3550	509	.013	.135	303	.789	3550	559	.006	.087	320	.299	350	826	.080	.181	960	.550
3550	510	.011	.102	351	.388	3550	560	.002	.089	324	.311	350	827	.086	.126	376	.678
3550	511	.144	.114	363	.608	3550	561	.027	.099	310	.615	350	828	.085	.123	517	.557
3550	512	.014	.099	307	.319	3550	562	.102	.104	326	.451	350	829	.014	.142	663	.558
3550	513	.192	.114	172	.556	3550	563	.018	.094	316	.423	350	830	.050	.159	774	.420
3550	514	.046	.094	264	.369	3550	564	.013	.090	336	.348	350	831	.070	.105	300	.578
3550	515	.266	.183	280	.322	3550	565	.032	.088	356	.335	350	832	.089	.104	277	.553
3550	516	.006	.144	399	.783	3550	566	.010	.102	328	.400	350	901	.139	.166	393	.955
3550	517	.006	.094	316	.315	3550	567	.033	.104	309	.444	350	902	.085	.136	354	.927
3550	518	.169	.110	183	.544	3550	568	.004	.097	331	.374	350	903	.125	.162	304	.907
3550	519	.017	.098	381	.427	3550	569	.007	.101	300	.354	350	904	.188	.164	292	.971
3550	520	.167	.110	183	.592	3550	570	.056	.098	333	.298	350	905	.050	.128	427	.690
3550	521	.095	.163	335	.599	3550	571	.004	.100	323	.288	350	907	.012	.120	504	.420
3550	522	.022	.131	225	.730	3550	572	.034	.105	308	.342	350	908	.132	.140	367	.713
3550	523	.150	.115	357	.882	3550	573	.006	.105	308	.286	350	909	.094	.146	399	.894
3550	524	.080	.095	343	.381	3550	574	.030	.104	351	.287	350	910	.011	.113	443	.503

APPENDIX A -- PRESSURE DATA:

STATE OF ILLINOIS CENTER

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
350	911	.097	.150	.825	-.375	350	915	-.064	.108	.300	-.455	350	919	-.040	.102	.317	-.443
350	912	-.021	.155	.742	-.507	350	916	-.100	.112	.289	-.600	350	920	-.079	.102	.290	-.492
350	913	-.052	.117	.404	-.430	350	917	-.055	.102	.289	-.482	350	921	-.027	.104	.312	-.408
350	914	-.072	.114	.330	-.636	350	918	-.070	.109	.307	-.570	350	922	-.043	.106	.306	-.550