WIND-TUNNEL STUDY OF THREE HOUSTON CENTER, HOUSTON

by

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LIST OF SYMBOLS

Symbol	Definition
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, $\frac{\left((p-p_\infty)-(p-p_\infty)_{mean}\right)_{rms}}{0.5\ \rho\ U_\infty^2}$
$C_{p_{max}}$	Peak maximum pressure coefficient, $\frac{(p-p_\infty)_{max}}{0.5\ \rho\ U_\infty^2}$
$C_{p_{min}}$	Peak minimum pressure coefficient, $\frac{(p-p_\infty)_{min}}{0.5\ \rho\ U_\infty^2}$
$(\ )_{min}$	Minimum value during data record
$(\ )_{max}$	Maximum value during data record

Symbol	Definition
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, $\dfrac{F_x}{A_R\ 0.5\rho\ U_\infty^2}$
CF_Y	Force coefficient, Y direction, $\dfrac{F_y}{A_R\ 0.5\rho\ U_\infty^2}$

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 ($>2\times10^4$) the pressure coefficient at any location on the structure will be essentially constant for a large range of Reynolds numbers. Typical values encountered are 10^7-10^8 for the full-scale and 10^5-10^6 for the wind-tunnel model. In this range acceptable flow similarity is achieved without precise Reynolds number equality.

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

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

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

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

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

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

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

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

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

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

If the pressure fluctuations 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.

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

Terms and symbols used in the equations are defined in the List of Symbols and the axes are defined for the building in Figure 3. Force coefficients CF_X and CF_Y were computed for the horizontal forces acting along the X and Y axes using the mean pressure coefficient at each pressure tap. A_R represents a constant reference area for nondimensionalization of the forces and moments.

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

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

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

5. DISCUSSION

5.1 Flow Visualization

Flow patterns identified with smoke showed that the largest pressures would probably occur on or adjacent to the narrow vertical faces of the Three Houston Center Tower. In these regions, flow separation characteristics showed a large curvature which is often identified with high negative (outward-acting) peak pressures. Velocities about the base of the building in pedestrian areas indicated that high wind speeds might be expected on Caroline Street between the Three and One Houston Center buildings for some wind directions. Winds at the main entrance on McKinney Street appeared to be moderate to large for a wide range of wind directions. The strongest winds near the ground appeared to be on top of the podium structure at the base of the narrow faces on Caroline and Austin Streets.

5.2 Pedestrian Winds

Figure 4 shows the 16 pedestrian locations selected for investigation of pedestrian wind comfort. Location 1 was selected as a reference location which should be reasonably undisturbed by the presense of the Three Houston Center building. Location 9 was in front of the main entrance under the pedestrian bridge; location 16 was on top of the pedestal building. Table 2 and Figure 8 show that the largest values of mean velocity were measured at locations 16 and 5 with values of 72 and 66 percent of the mean velocity, U_∞, at the boundary layer height. These values compare to the largest

value at reference location 1 of 31 percent of U_∞ and a value of about 45 percent which might be expected in an open country environment.

The largest values of fluctuating velocity, U_{rms}, were in the range of 19-24 percent of U_∞ measured at locations 5, 12 and 14 compared to 15 percent at location 1. U_{rms} in an open country environment would be 10-12 percent of U_∞. The largest value of peak gust, represented by the mean plus three rms as discussed in Section 4.2, was obtained at location 5 with 138 percent of U_∞ for one wind direction. All other measured peak gusts were less than 112 percent of U_∞. These values compare to a largest peak gust of 65 percent at reference location 1 and 80-90 percent which might be expected in an open-country environment.

Velocity data of Table 2 integrated with local wind data is shown in Figure 9. Based on the data in this figure, the windiest locations measured were 5, 2, 16, and 9 in order of decreasing wind speeds. Locations 5 and 2 may be considered unacceptably windy 3-5 percent of the time for mean winds and uncomfortable for walking more than 20 percent of the time. Location 16, on the podium structure, may be unacceptably windy about 1 percent of the time and uncomfortable for walking more than 20 percent of the time for mean winds. Location 9 may be unacceptable about 0.3 percent of the time and uncomfortable for walking 10-20 percent of the time. The percent of time when peak gusts become uncomfortable at these locations was smaller than for mean wind effects. Other locations where walking was uncomfortable more than one percent of the time were locations 4, 8, 10,

12, and 15. Most other areas about the building had reasonably low wind speeds.

The results of the wind analysis indicated that the environment near locations 2, 5 and 16 will be generally uncomfortable for walking on many windier days. Location 9 at the main entrance will be uncomfortable for walking on some windy days. Other areas about the base of the building will be less windy.

5.3 Pressures

Table 6 shows the largest pressure coefficients and corresponding loads measured on the building for each pressure tap location. Data listed as Configuration A in Table 6 and Appendix A represent the basic set of data obtained at all taps for 36 wind directions. Data listed as Configuration C represent data obtained at selected taps at 2 degree azimuthal steps near data peaks to ensure that the largest peaks had been selected. There was no Configuration B. The largest pressure coefficients measured on the building were -2.51 and -2.48 measured at taps 246 and 222 on the east face for approach wind azimuths of 220 and 200 degrees respectively. These coefficients correspond to peak pressures of 83 psf for a 50-year recurrence wind and 113 psf for a 100-year recurrence wind. Figure 10 shows that the typical peak pressures were in the range of 60-80 psf for 100-yr winds and 50-70 psf for 50-yr winds.

Figure 11 shows shear and moment diagrams for two wind azimuths, 200 and 130, for which loads in the X and Y directions were near maximum.

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FIGURES

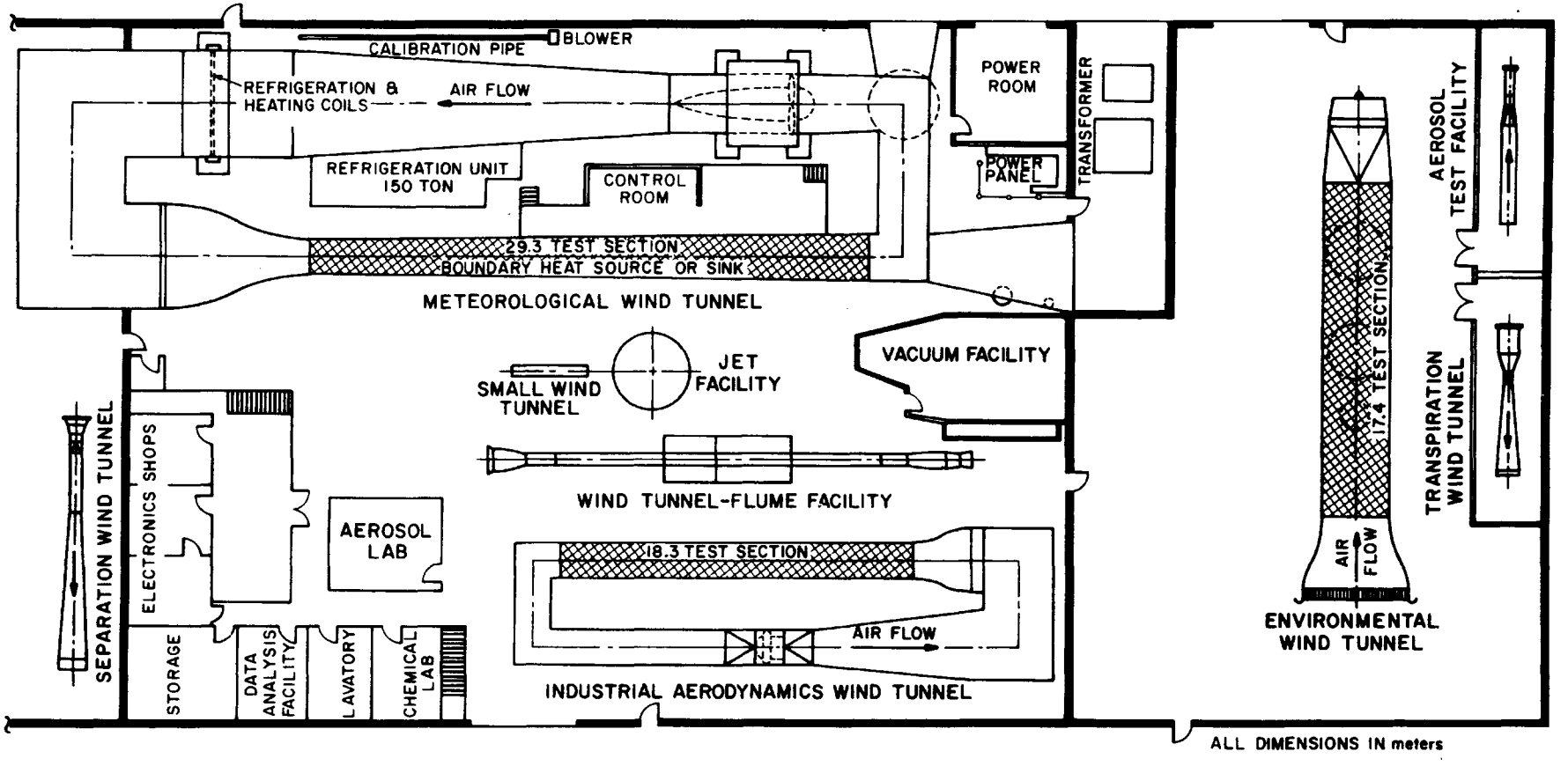
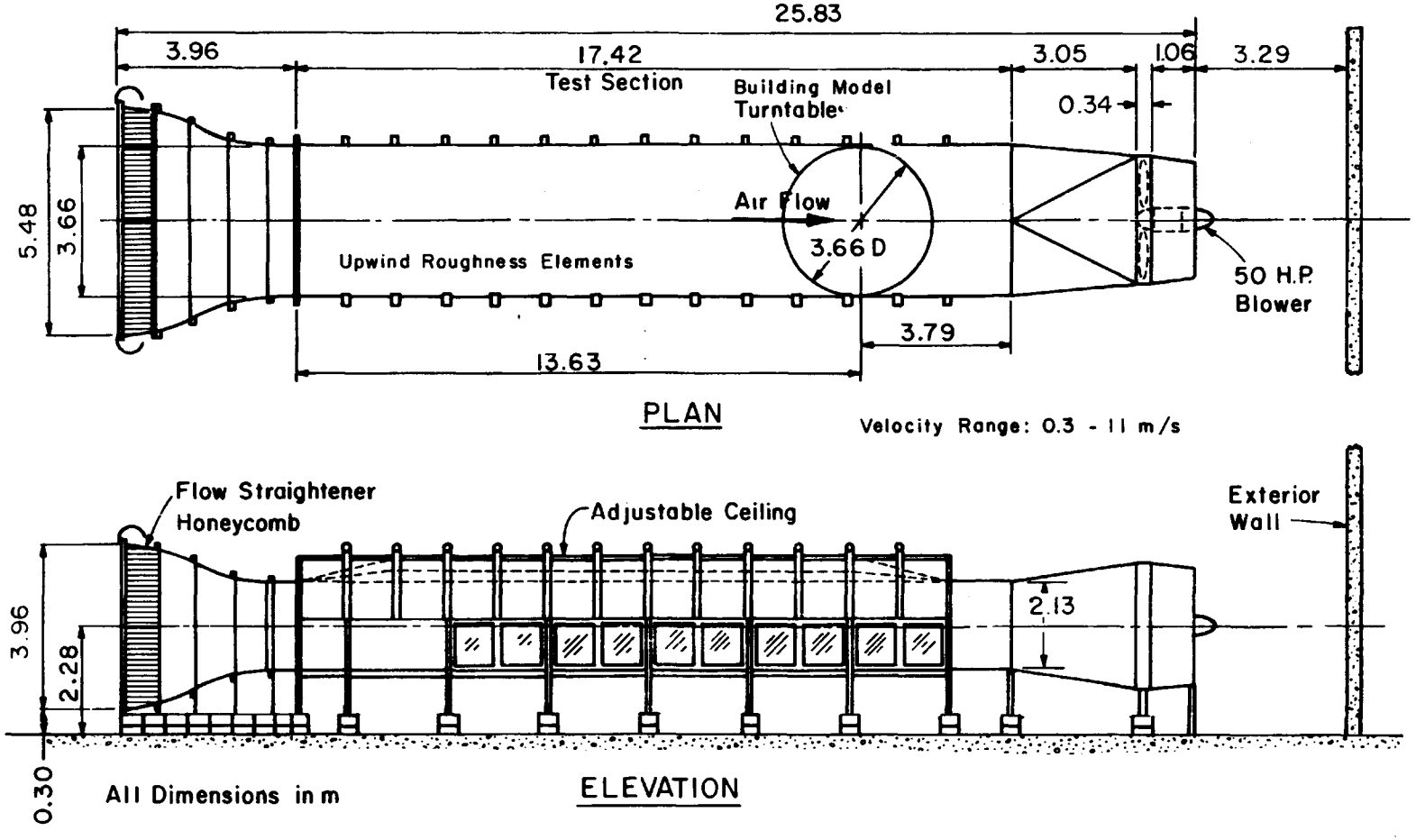


FIGURE 1 - FLUID DYNAMICS AND DIFFUSION LABORATORY
COLORADO STATE UNIVERSITY



ENVIRONMENTAL WIND TUNNEL

Figure 2 - Wind Tunnel Configuration

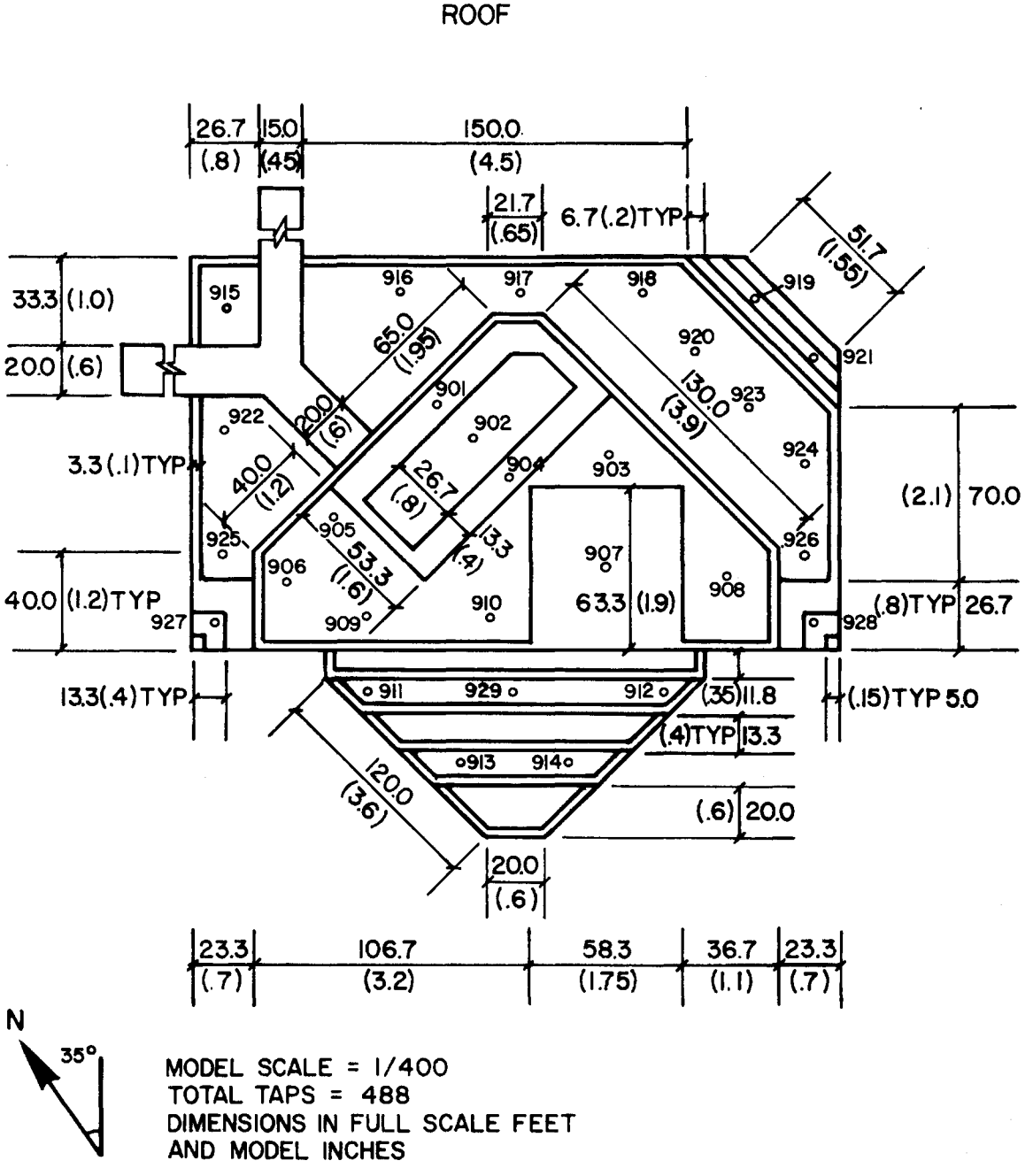


Figure 3a. Pressure Tap Locations

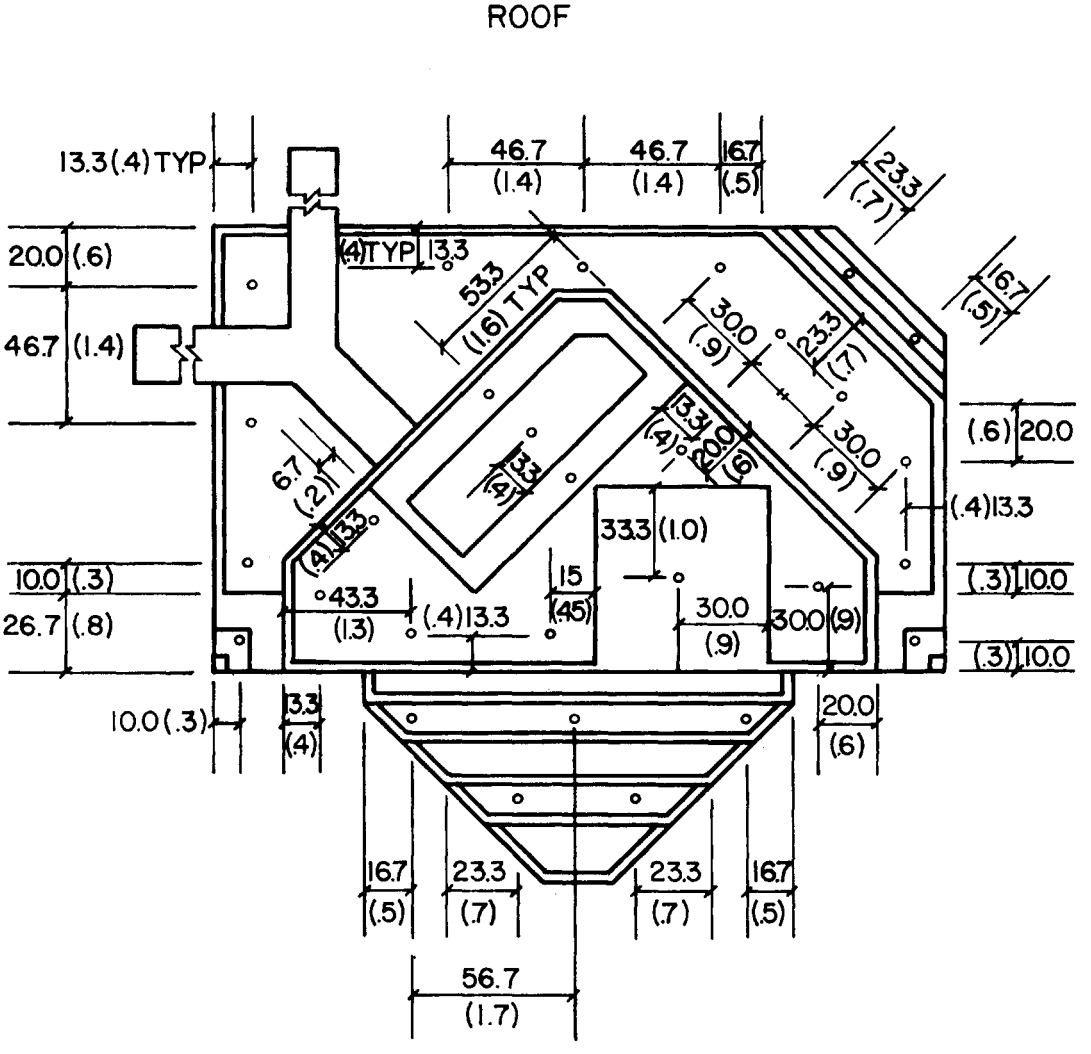


Figure 3b. Pressure Tap Locations

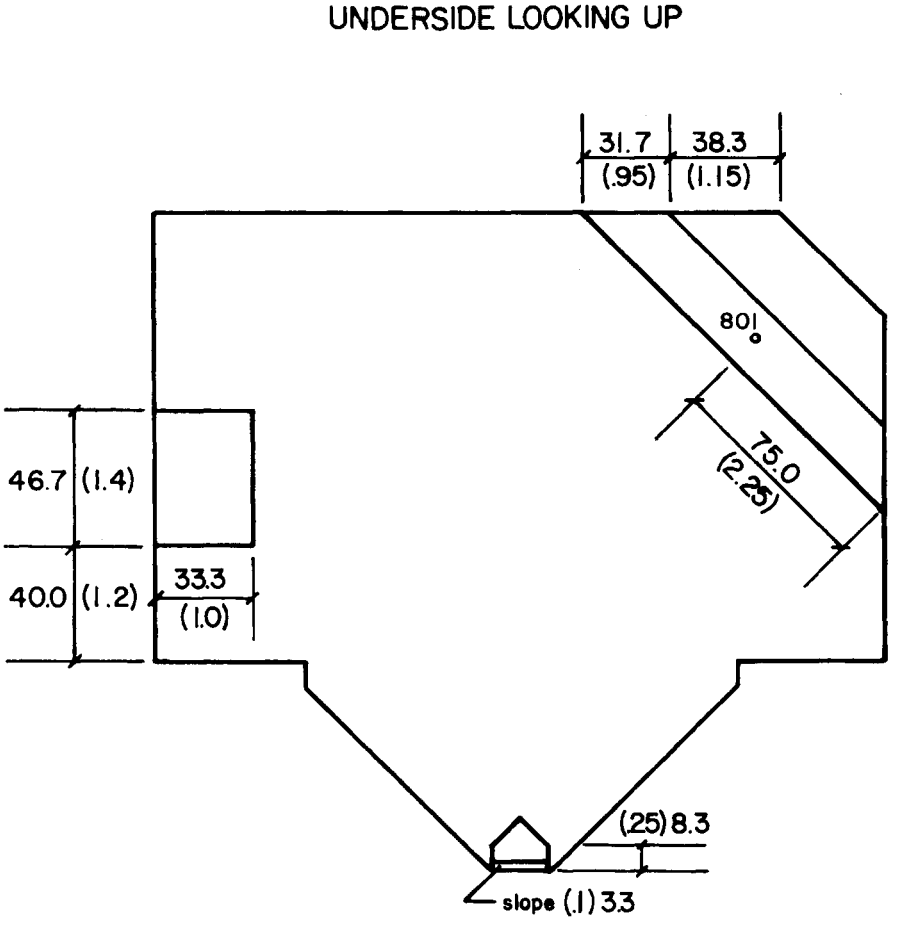


Figure 3c. Pressure Tap Locations

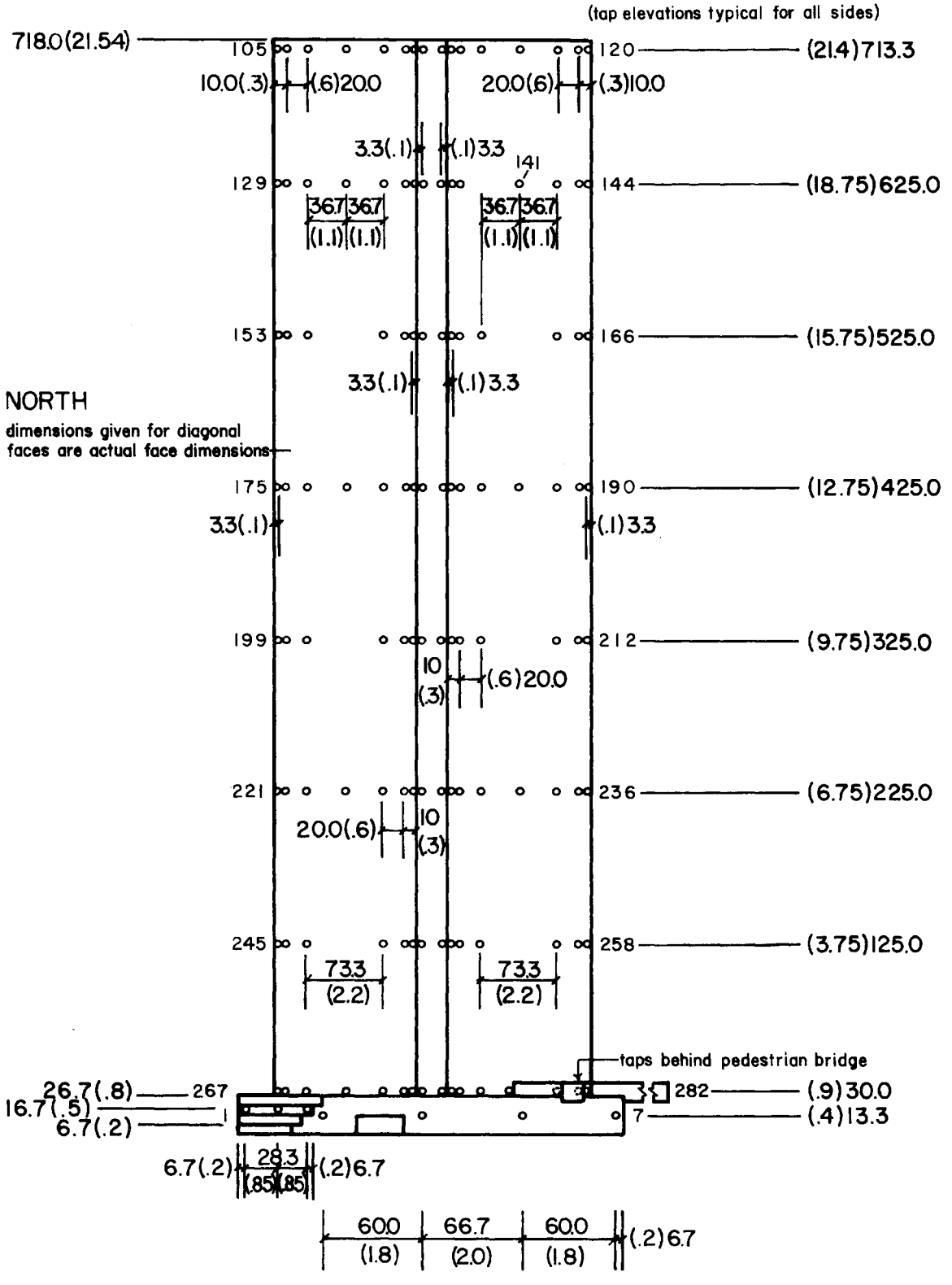


Figure 3d. Pressure Tap Locations

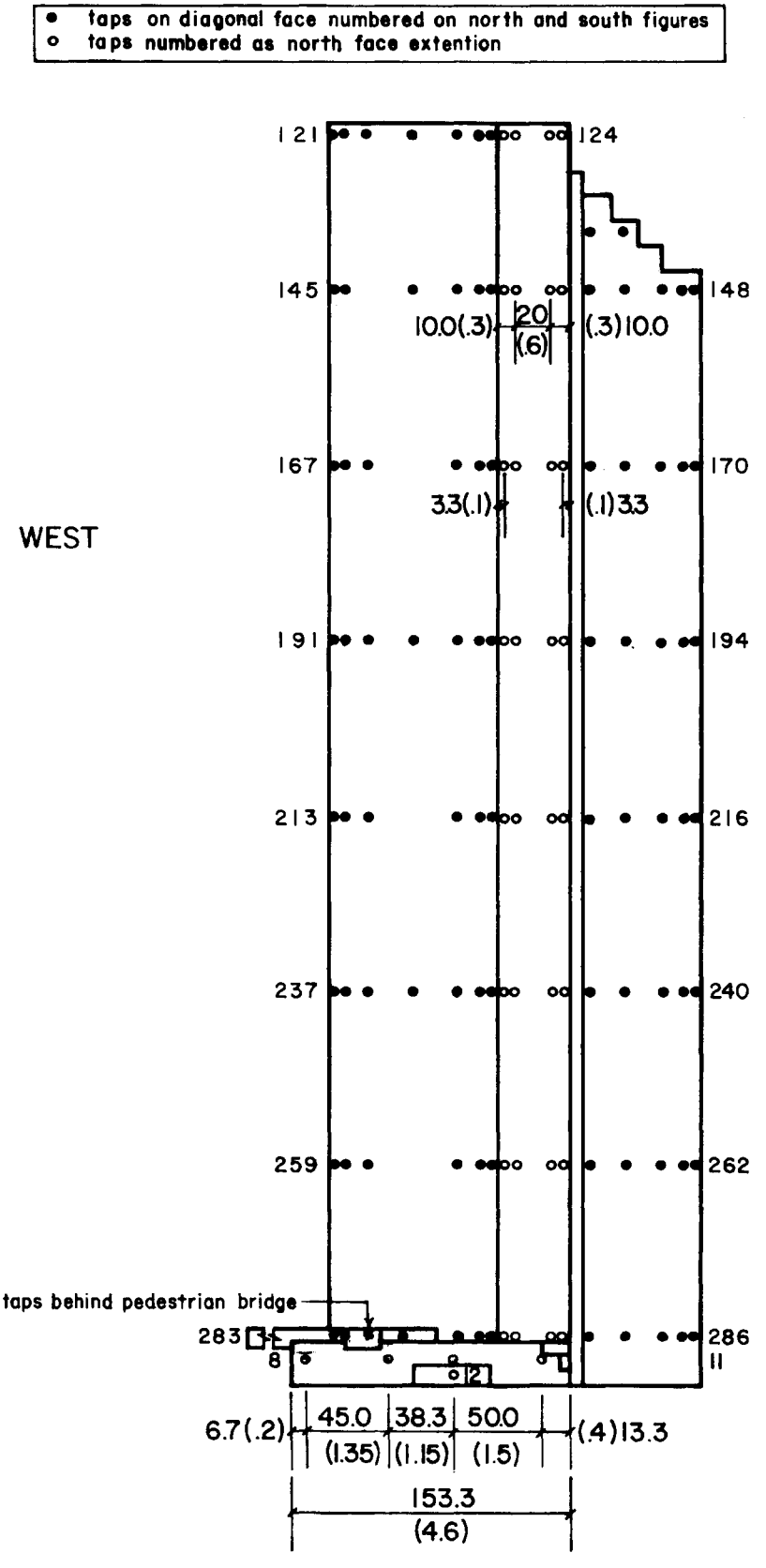


Figure 3e. Pressure Tap Locations

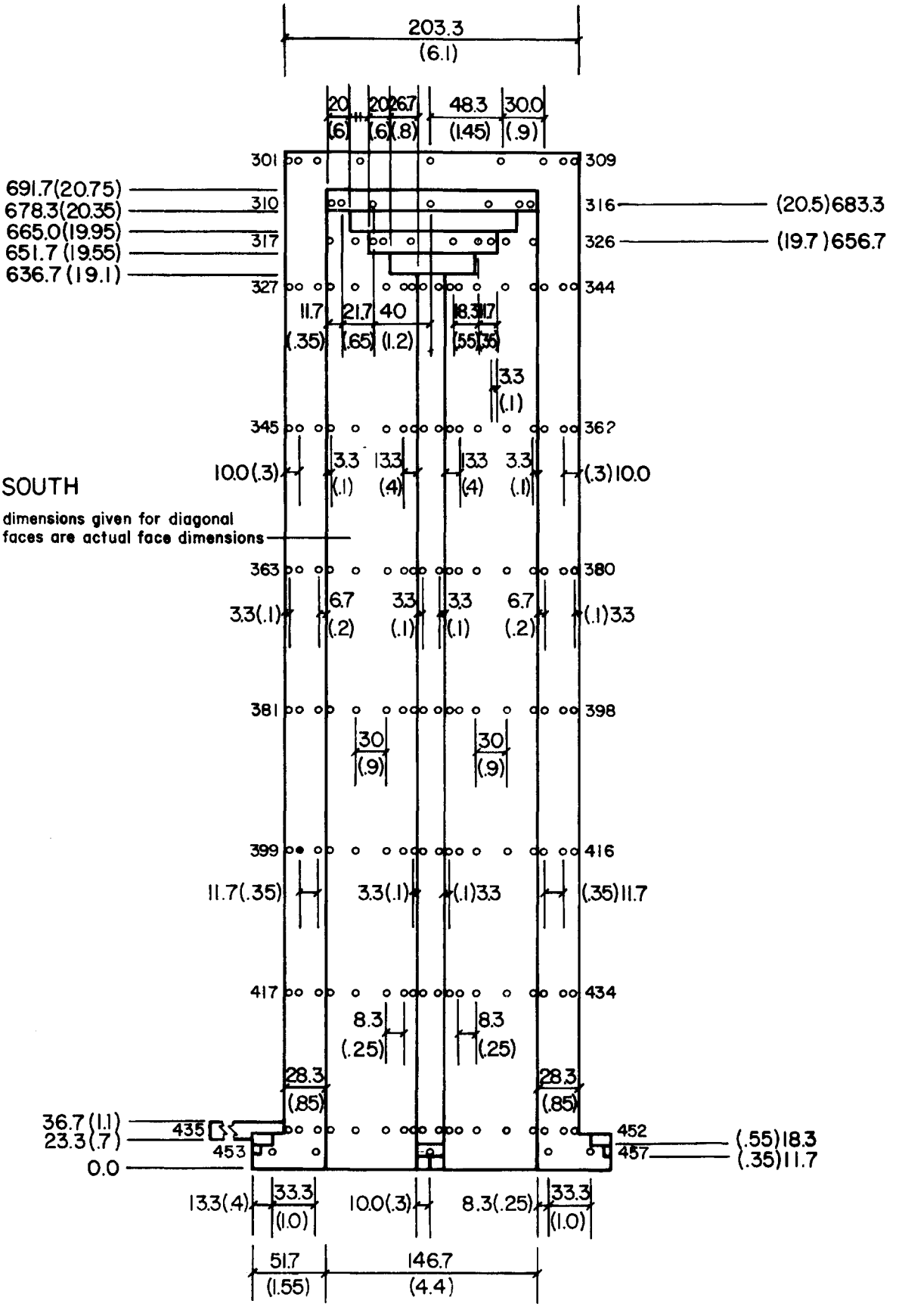


Figure 3f. Pressure Tap Locations

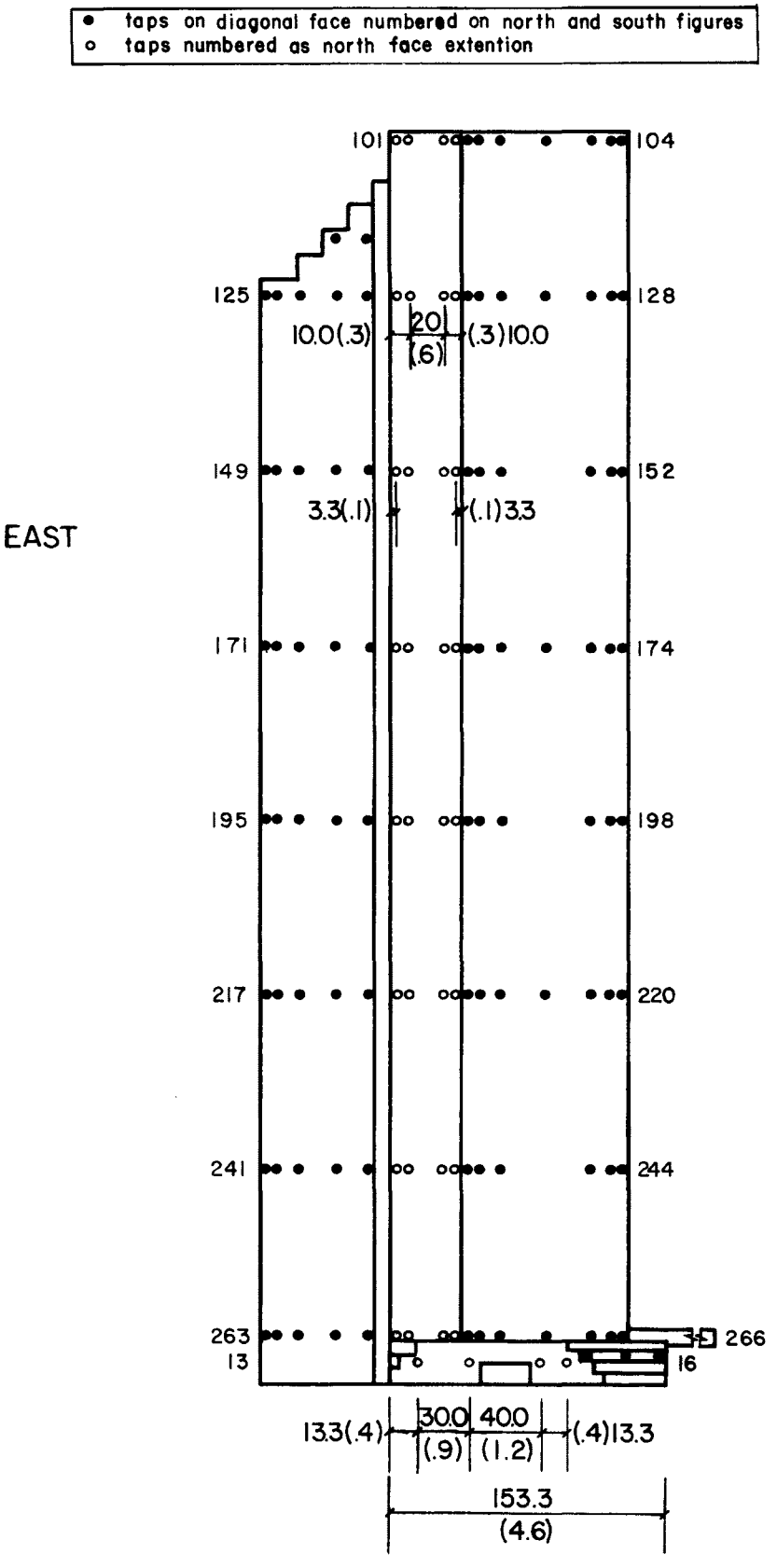


Figure 3g. Pressure Tap Locations

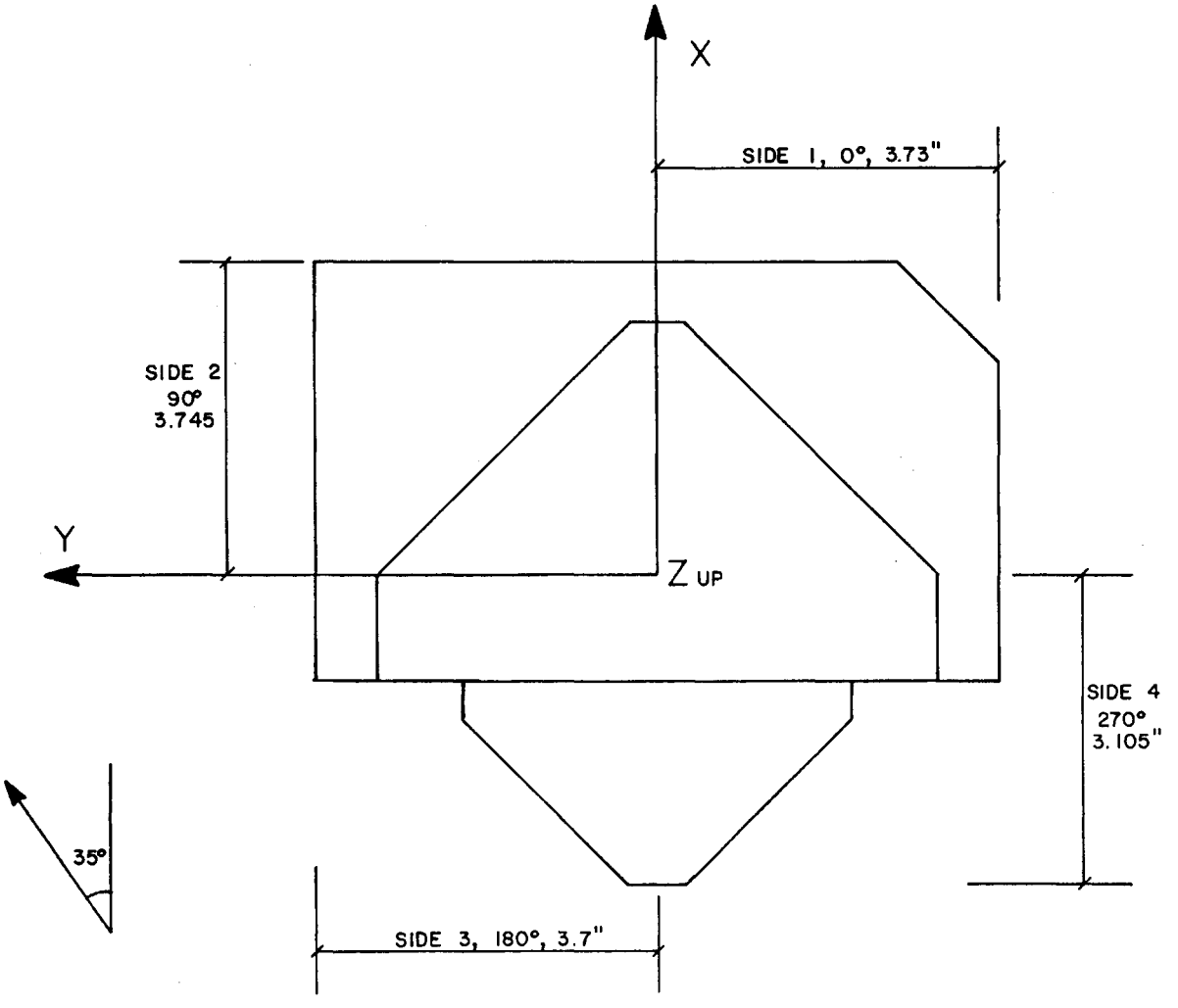


Figure 3h. Force and Moment Coordinate System

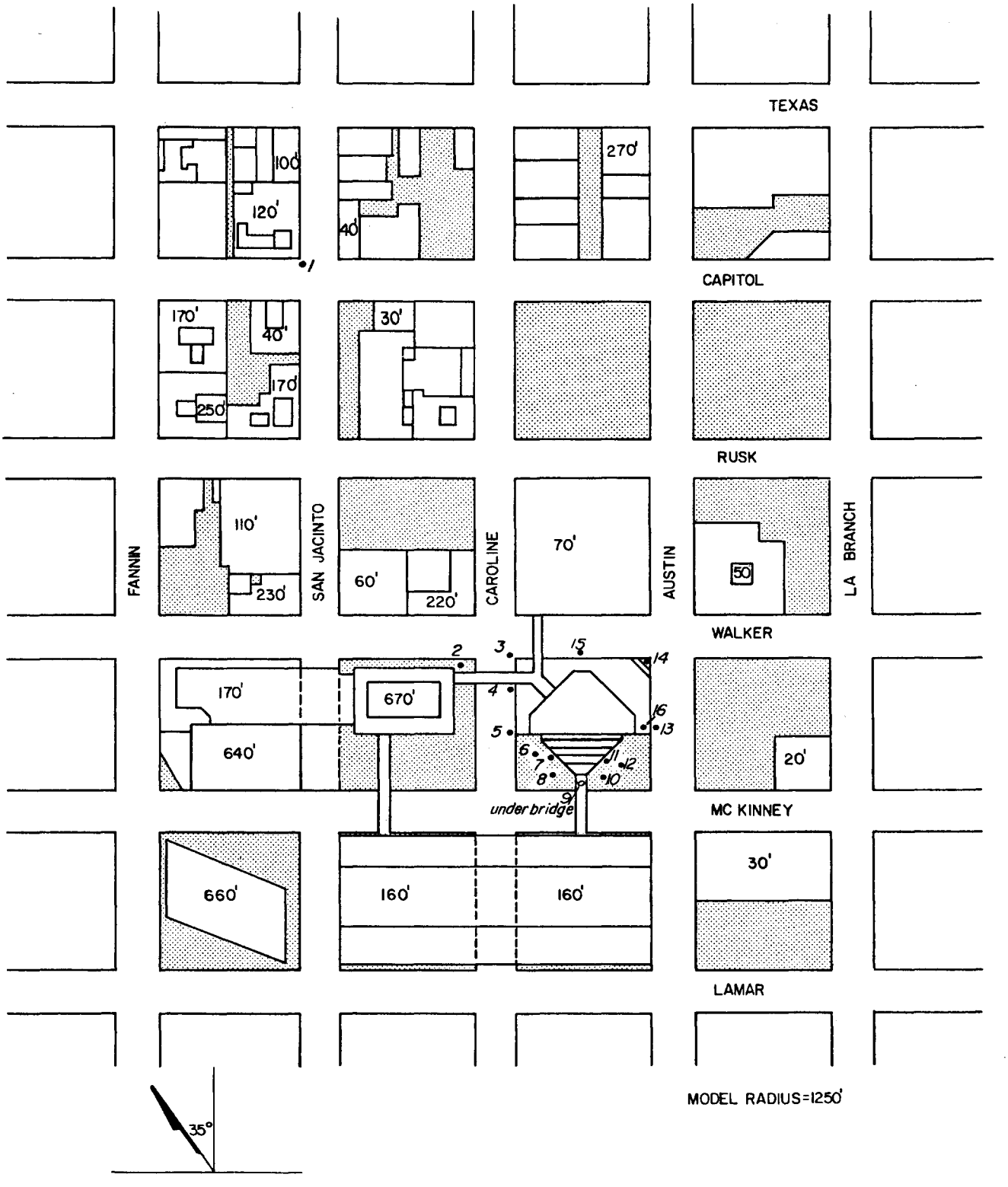


Figure 4. Building Location and Pedestrian Wind Velocity Measuring Positions

Flow visualization was performed in the Industrial Aerodynamics Wind Tunnel.

Figure 5. Completed Model in Wind Tunnel

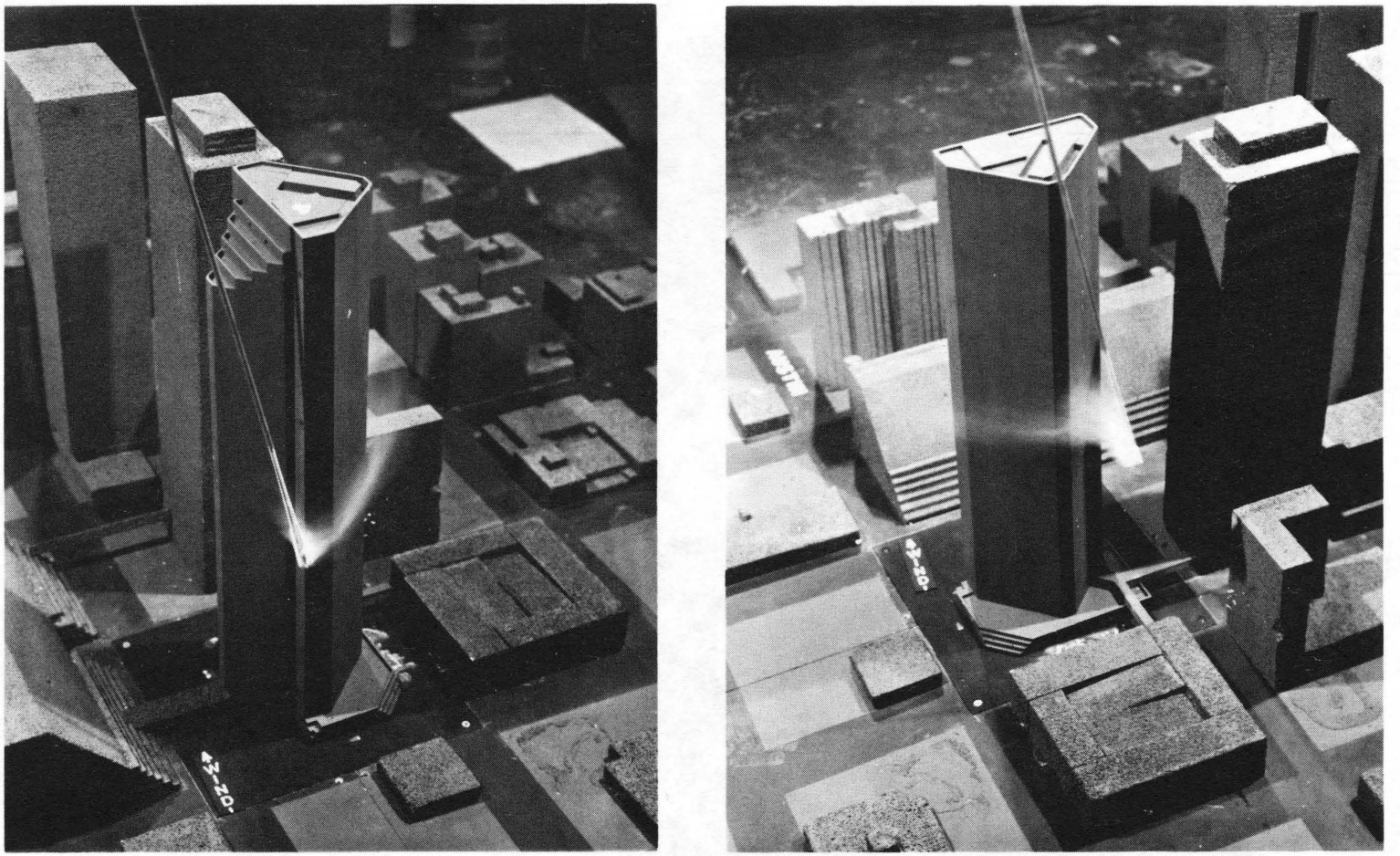


Figure 5. Completed Model in Wind Tunnel

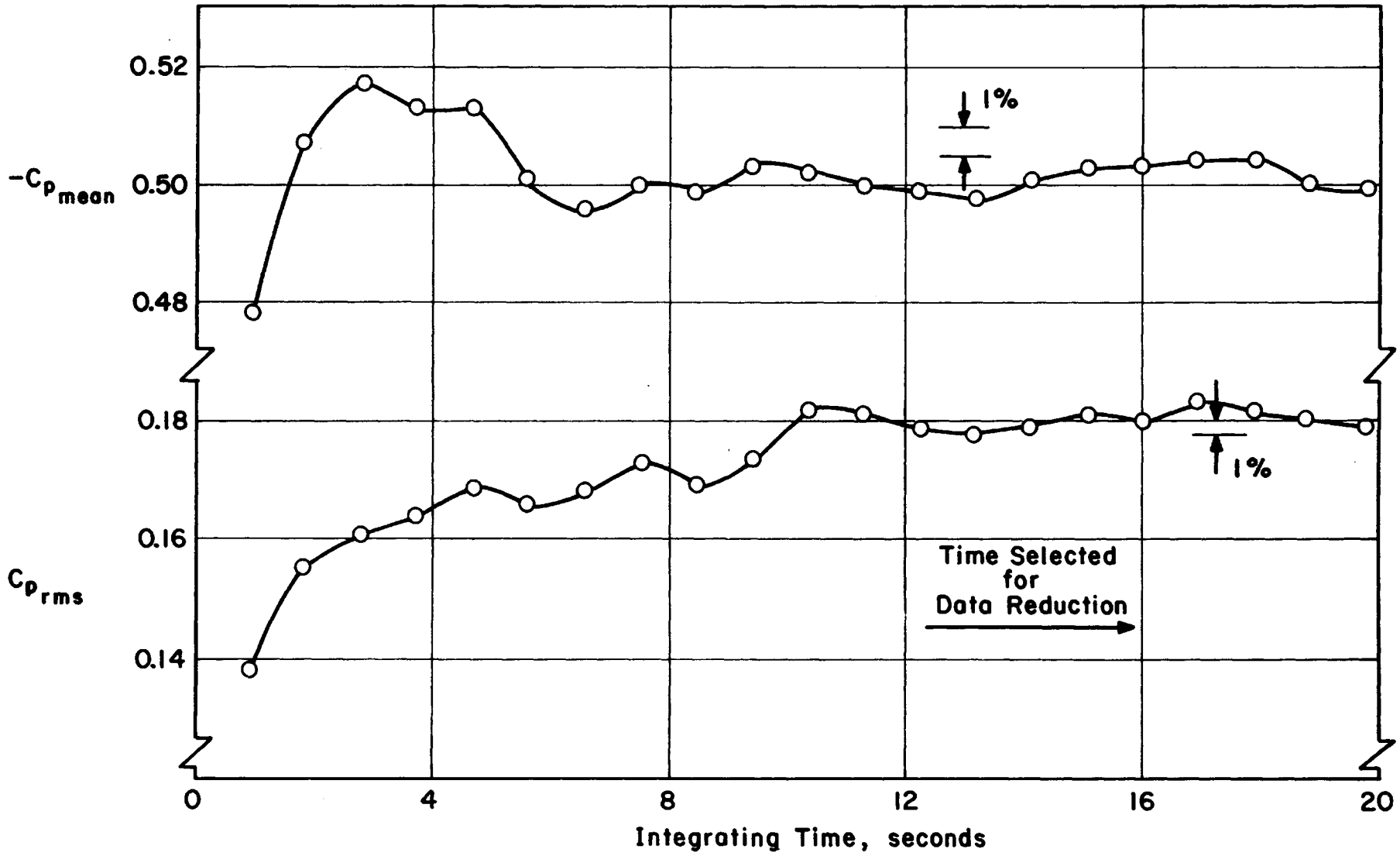


Figure 6 - Data Sampling Time Verification

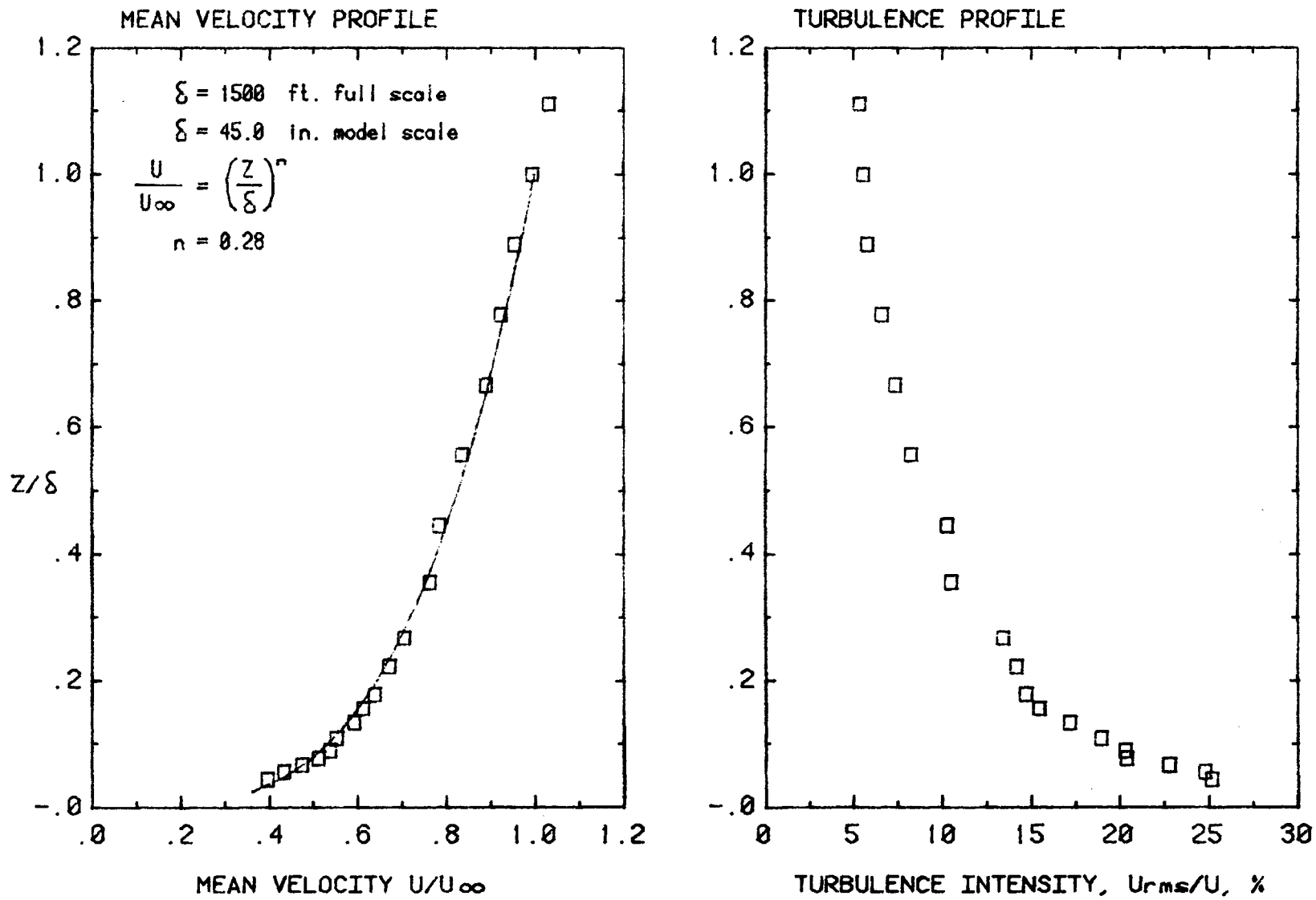


Figure 7. Mean Velocity and Turbulence Profiles Approaching the Model.

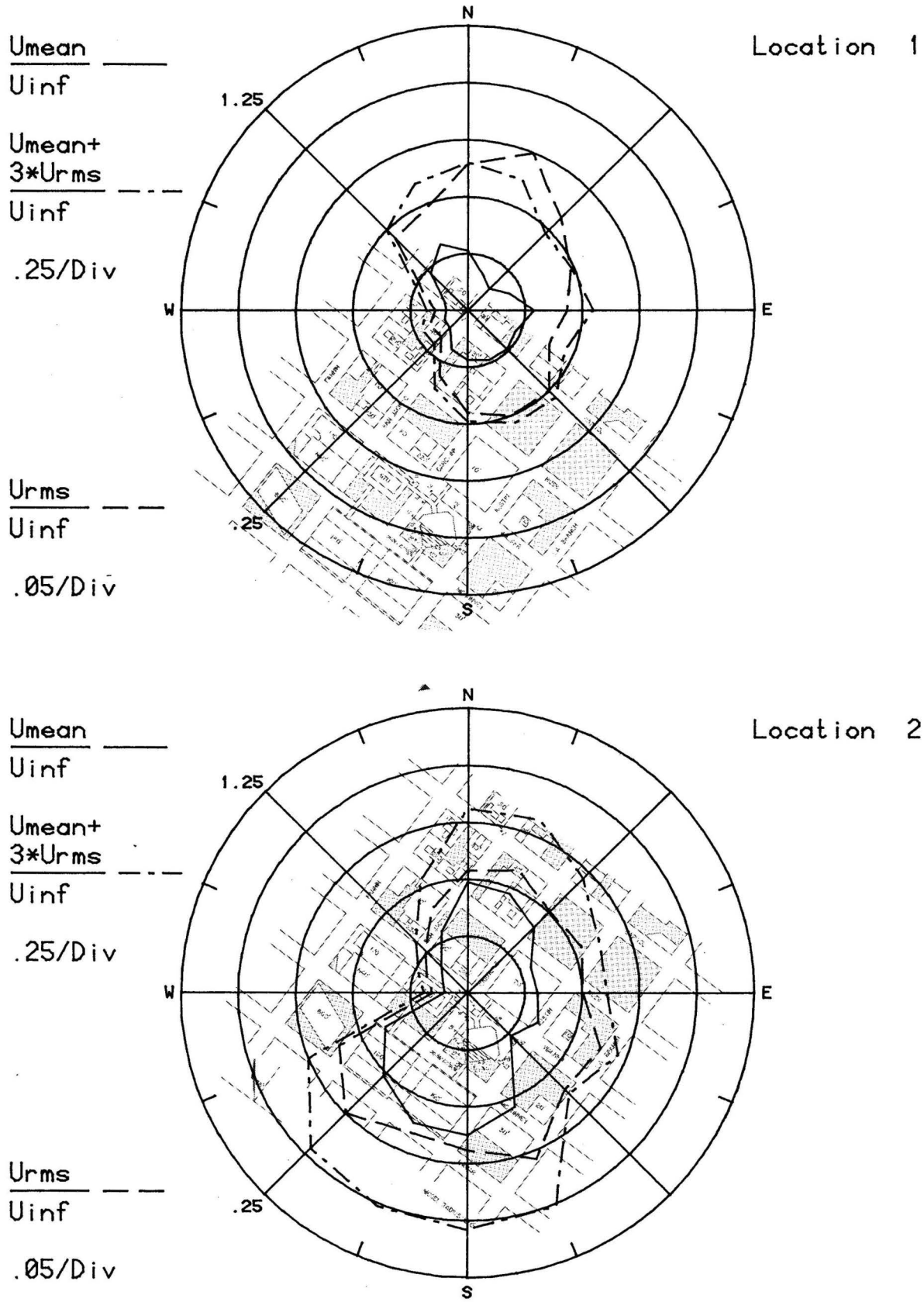
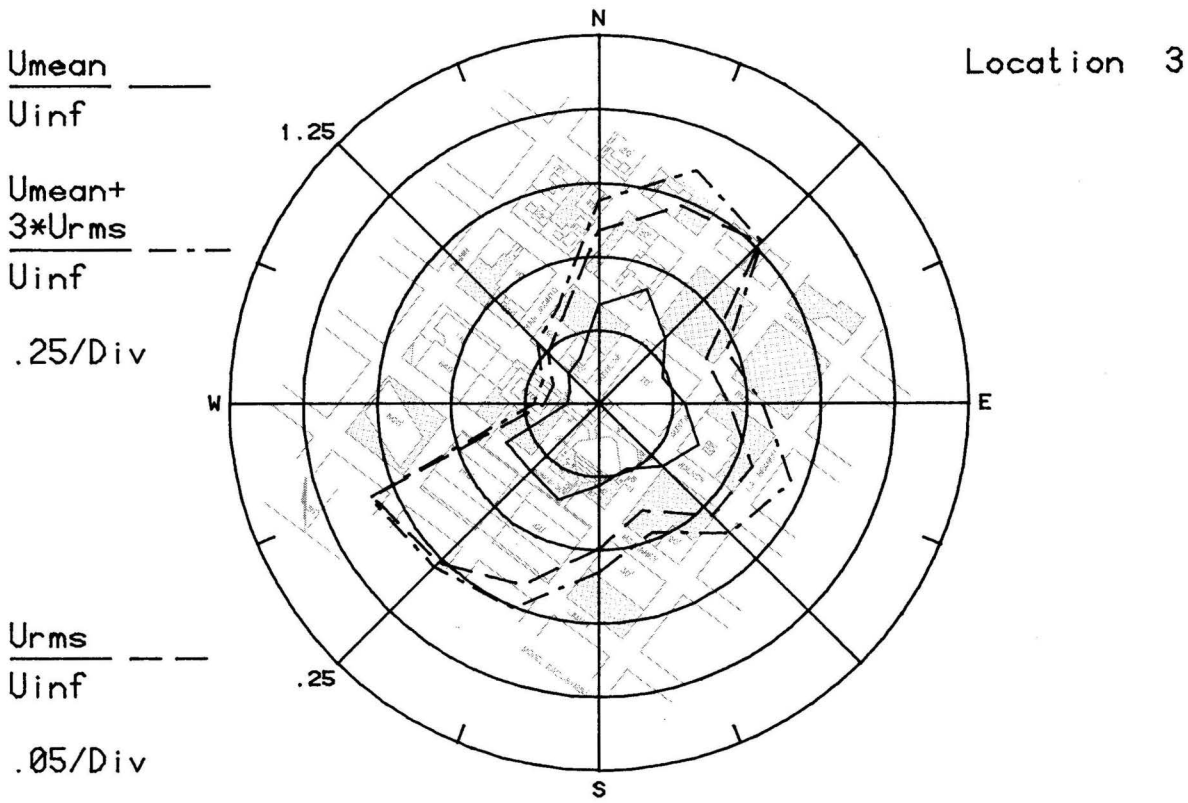


Figure 8a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2



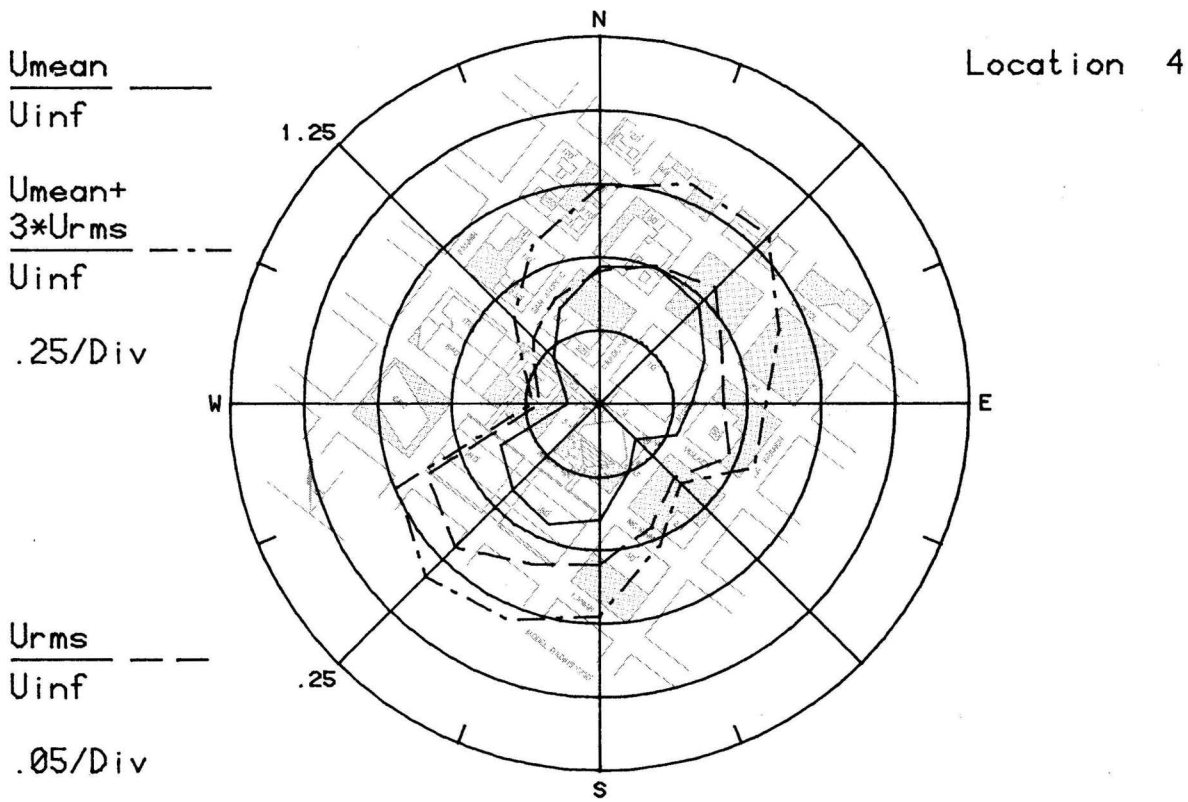


Figure 8b. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

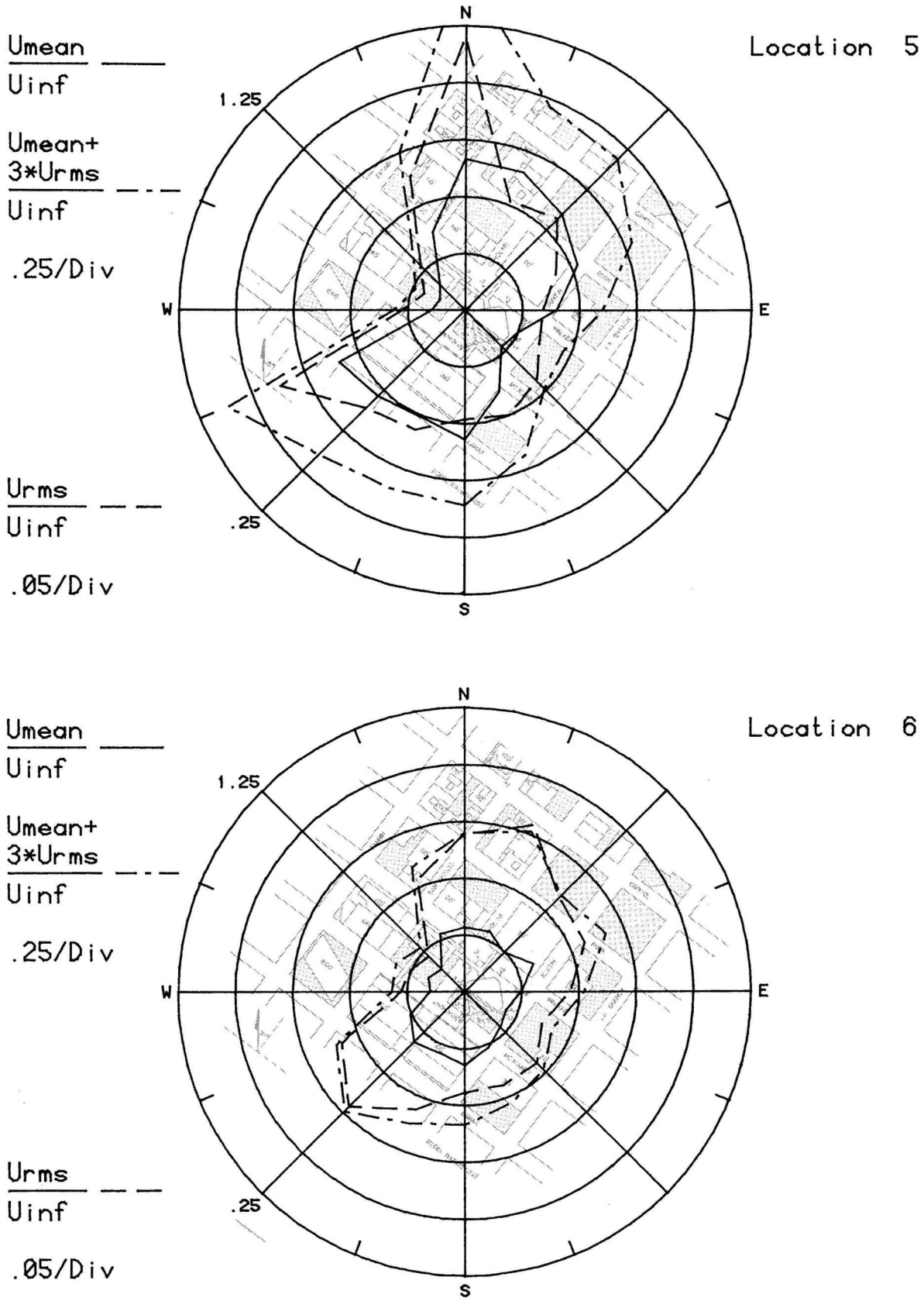


Figure 8c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

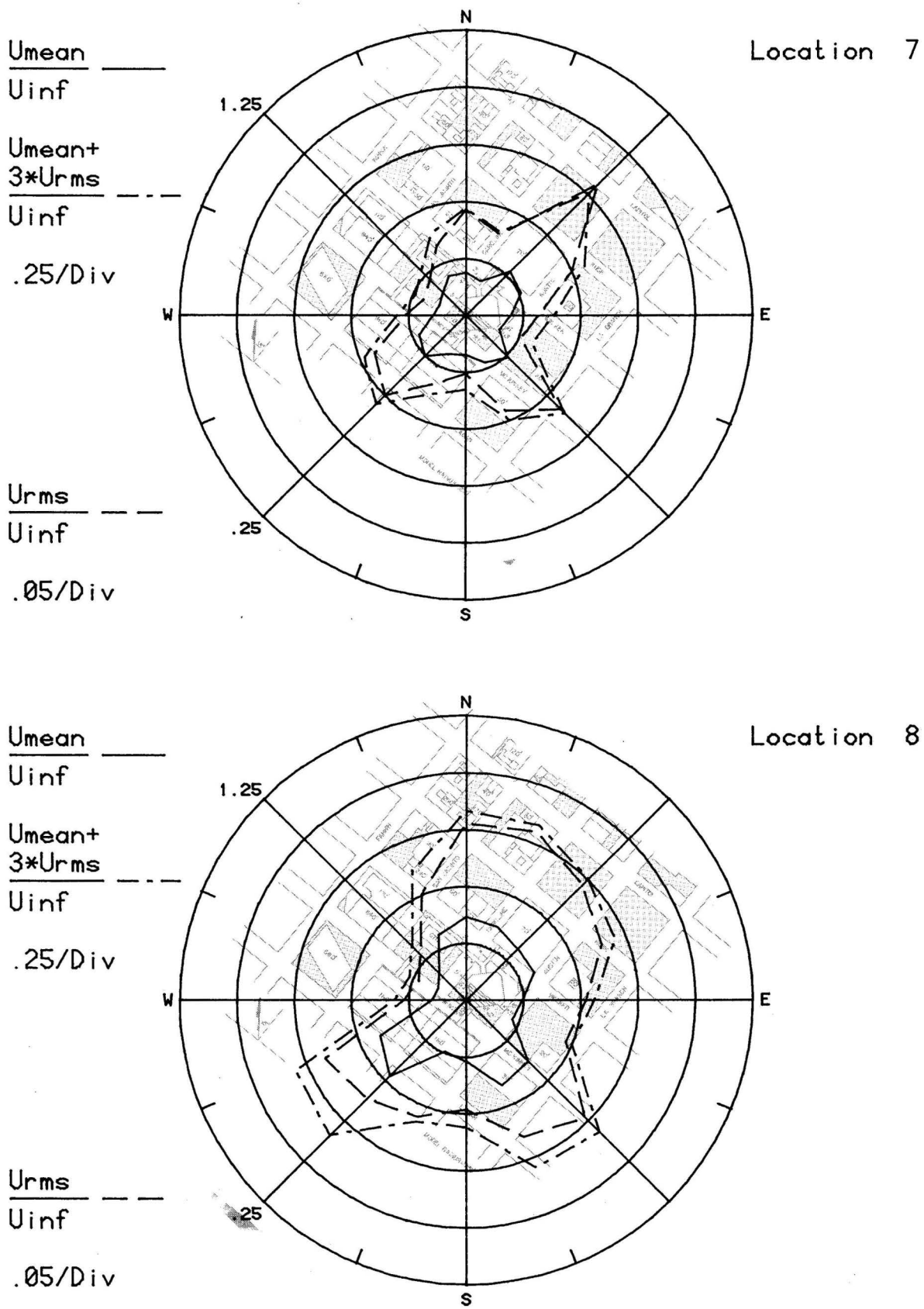


Figure 8d. Mean Velocities and Turbulence Intensities at Pedestrian Locations 7 and 8

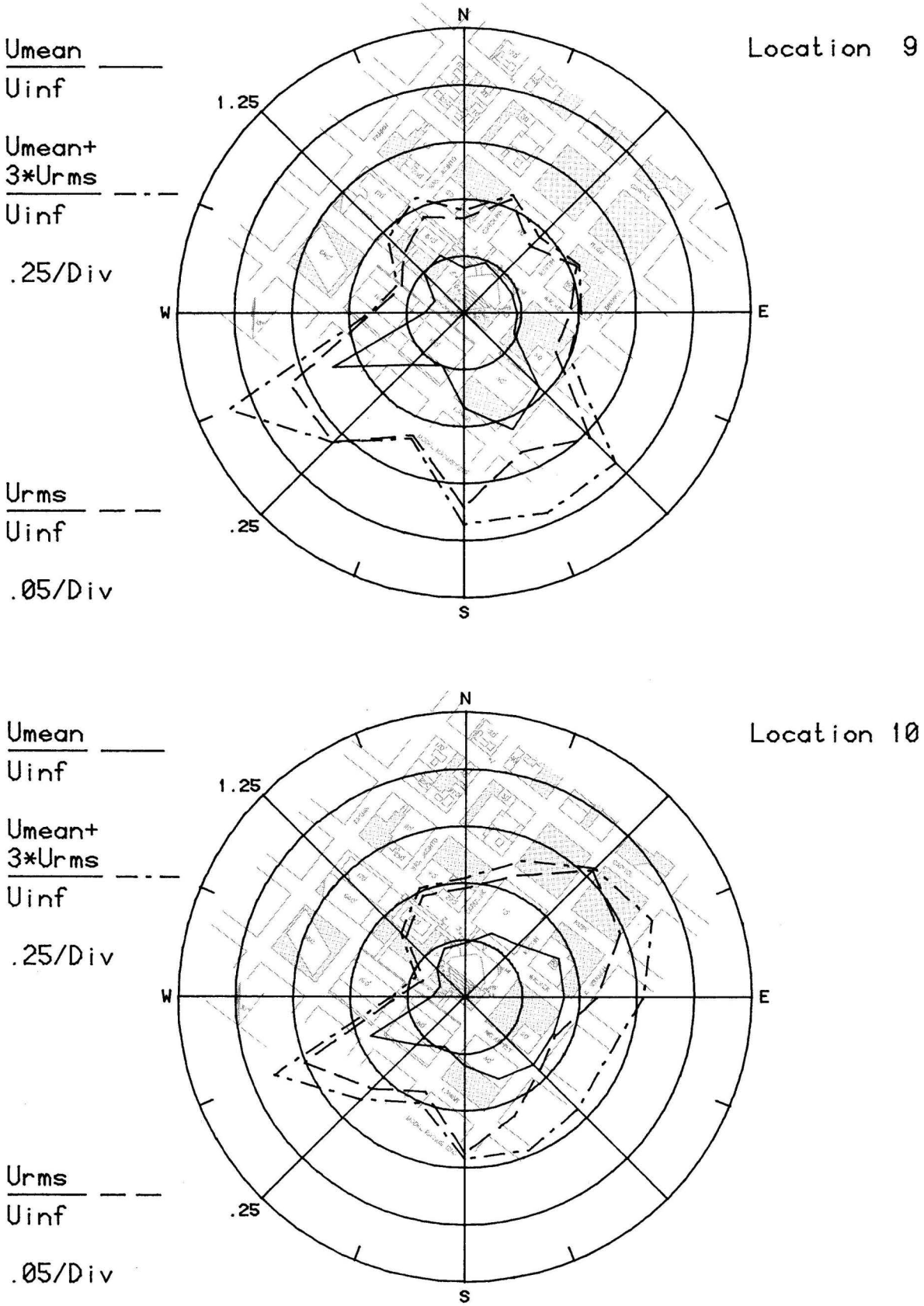
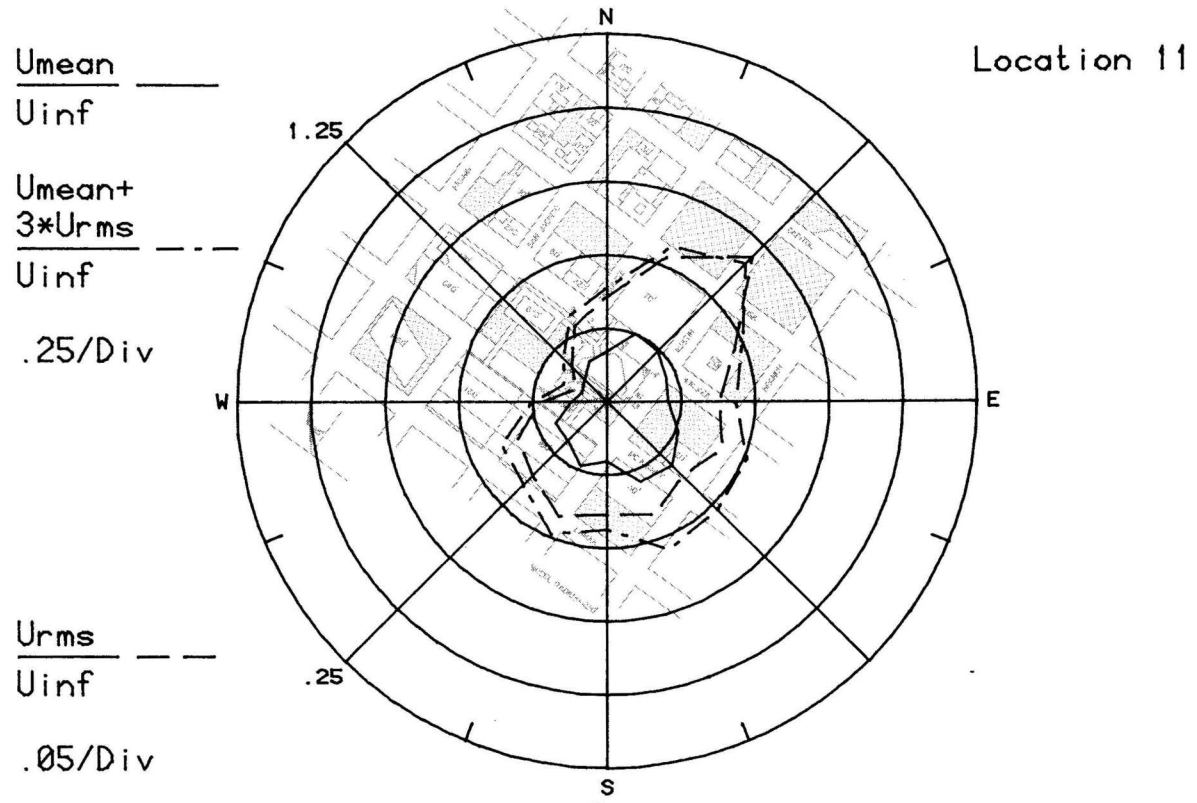


Figure 8e. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10



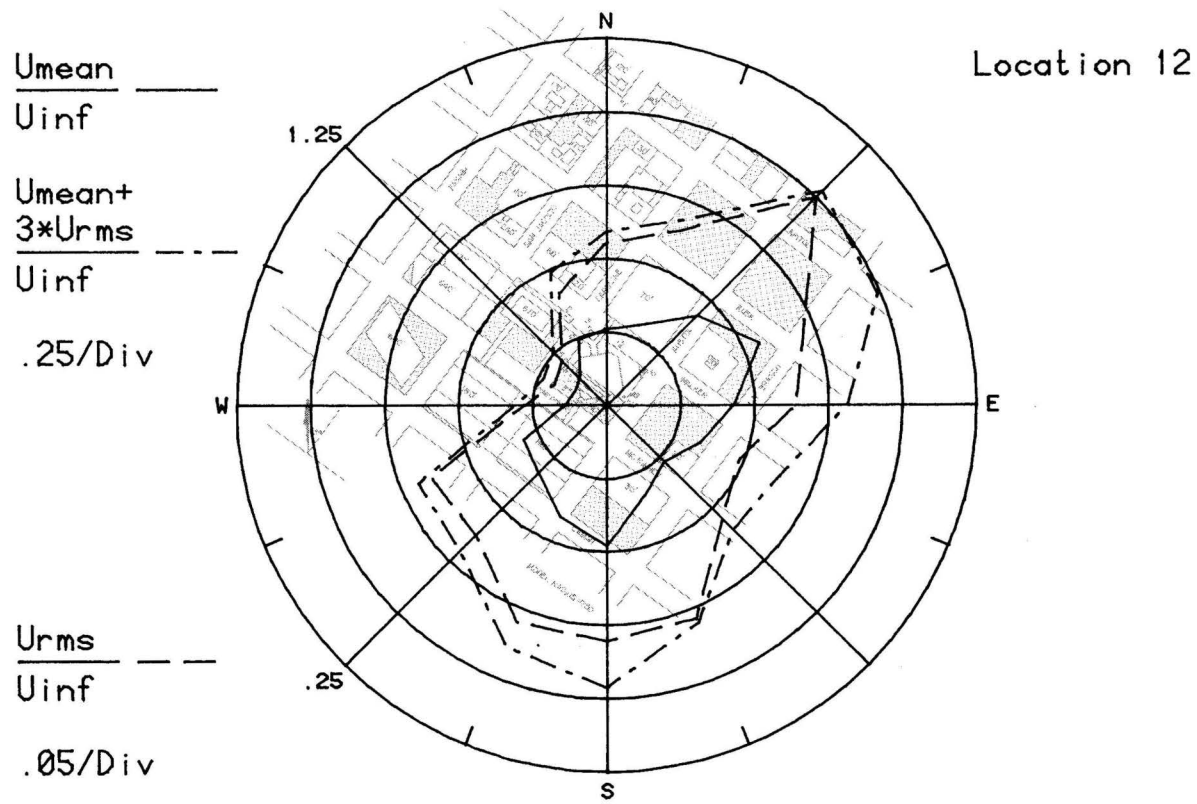
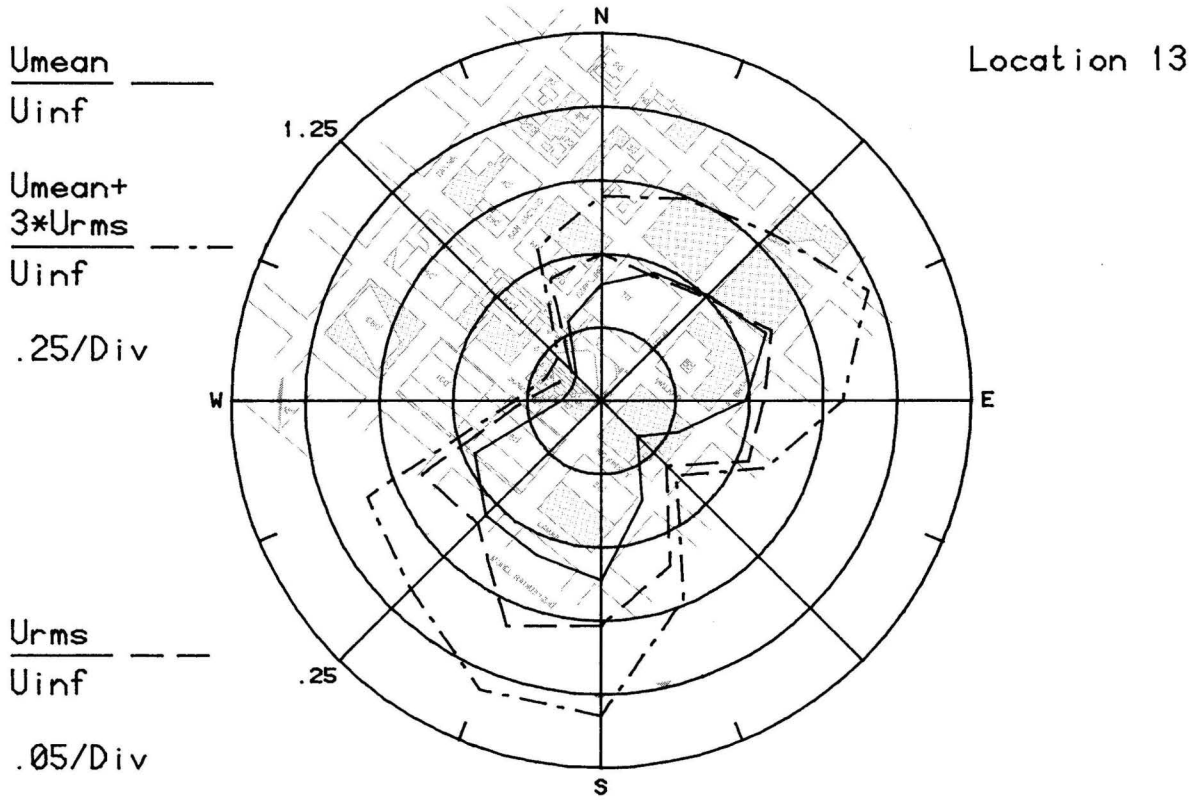


Figure 8f. Mean Velocities and Turbulence Intensities at Pedestrian Locations 11 and 12



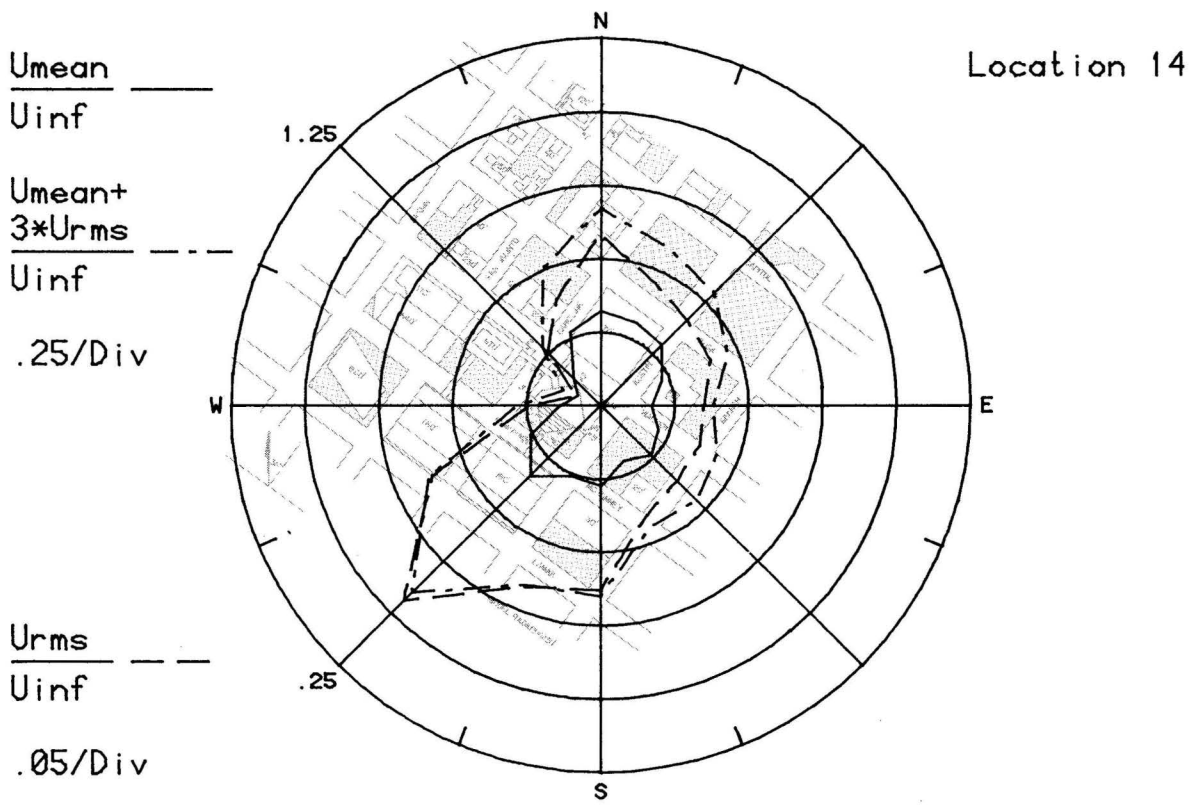


Figure 8g. Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

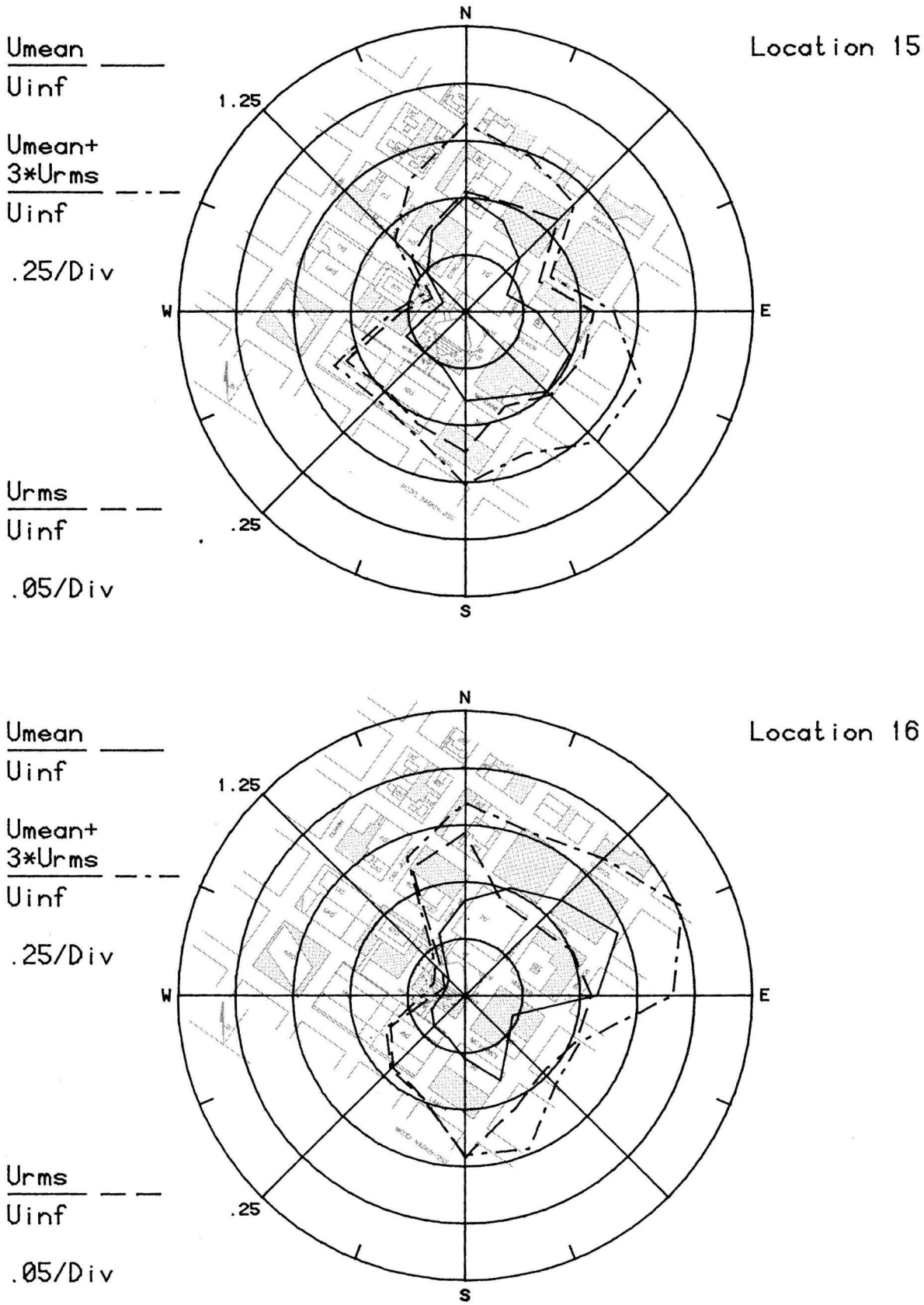


Figure 8h. Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16

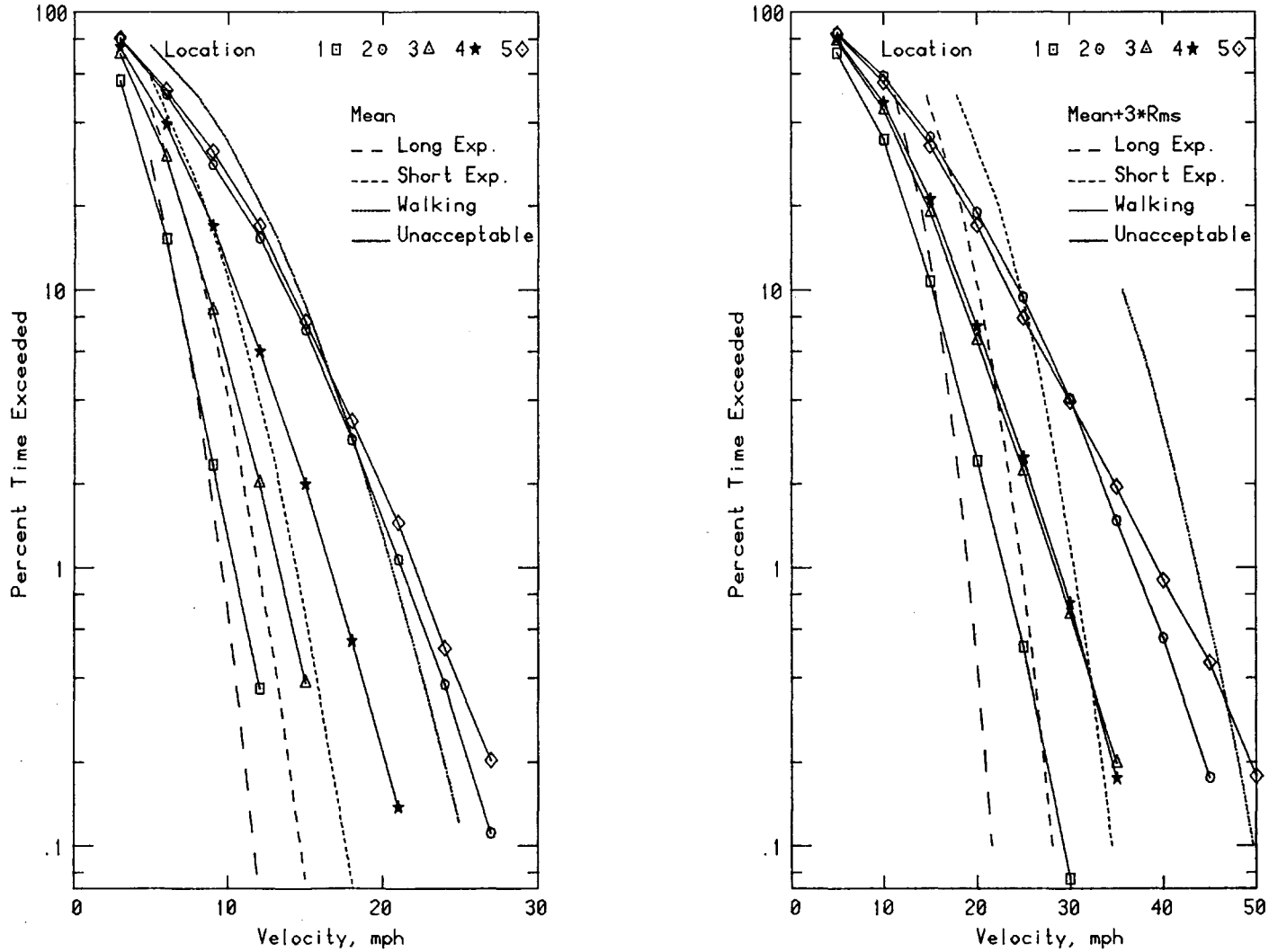


Figure 9a. Wind Velocity Probabilities for Pedestrian Locations

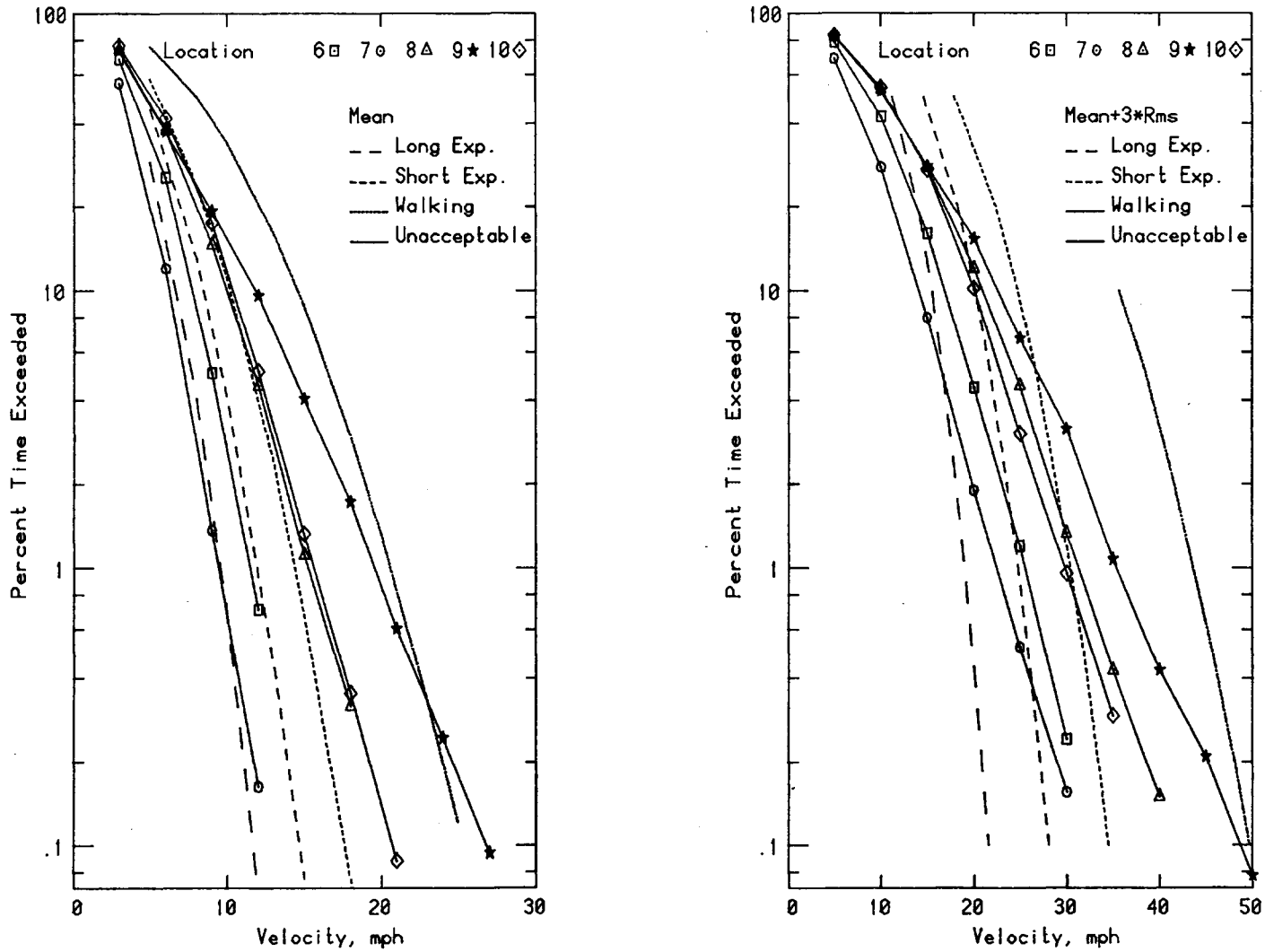


Figure 9b. Wind Velocity Probabilities for Pedestrian Locations

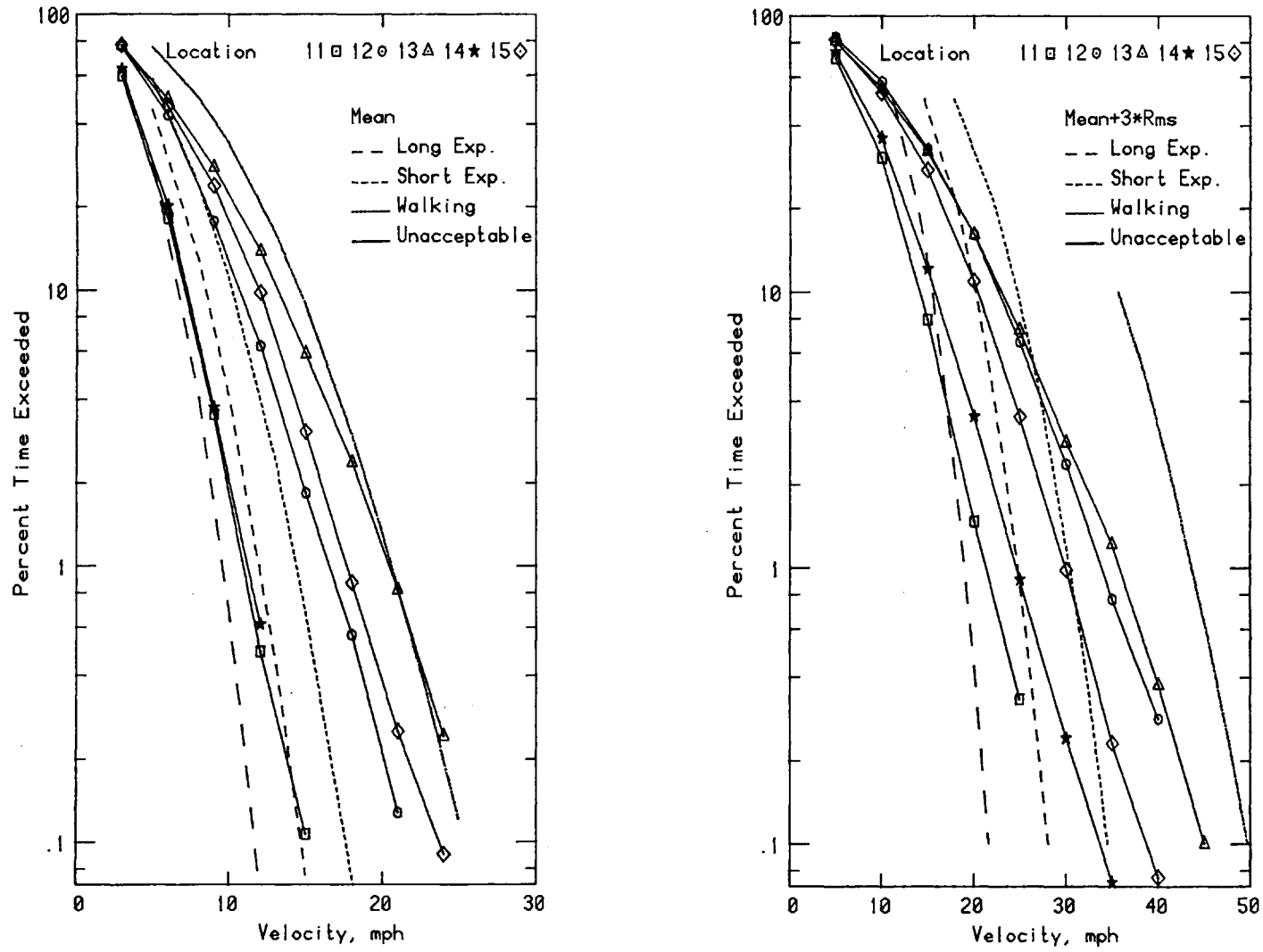


Figure 9c. Wind Velocity Probabilities for Pedestrian Locations

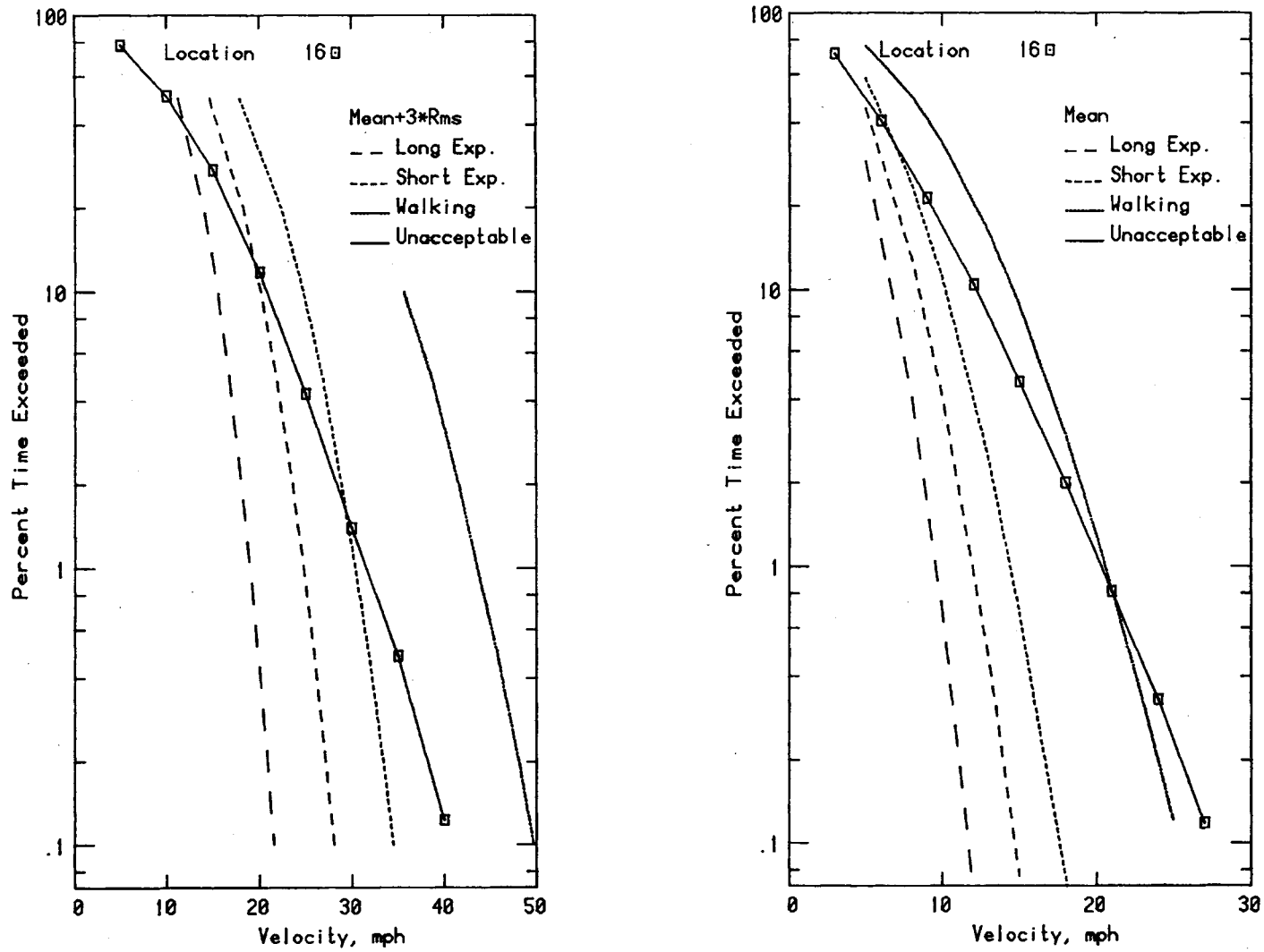


Figure 9d. Wind Velocity Probabilities for Pedestrian Locations

NORTH ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 45 PSF
100 YR. WIND

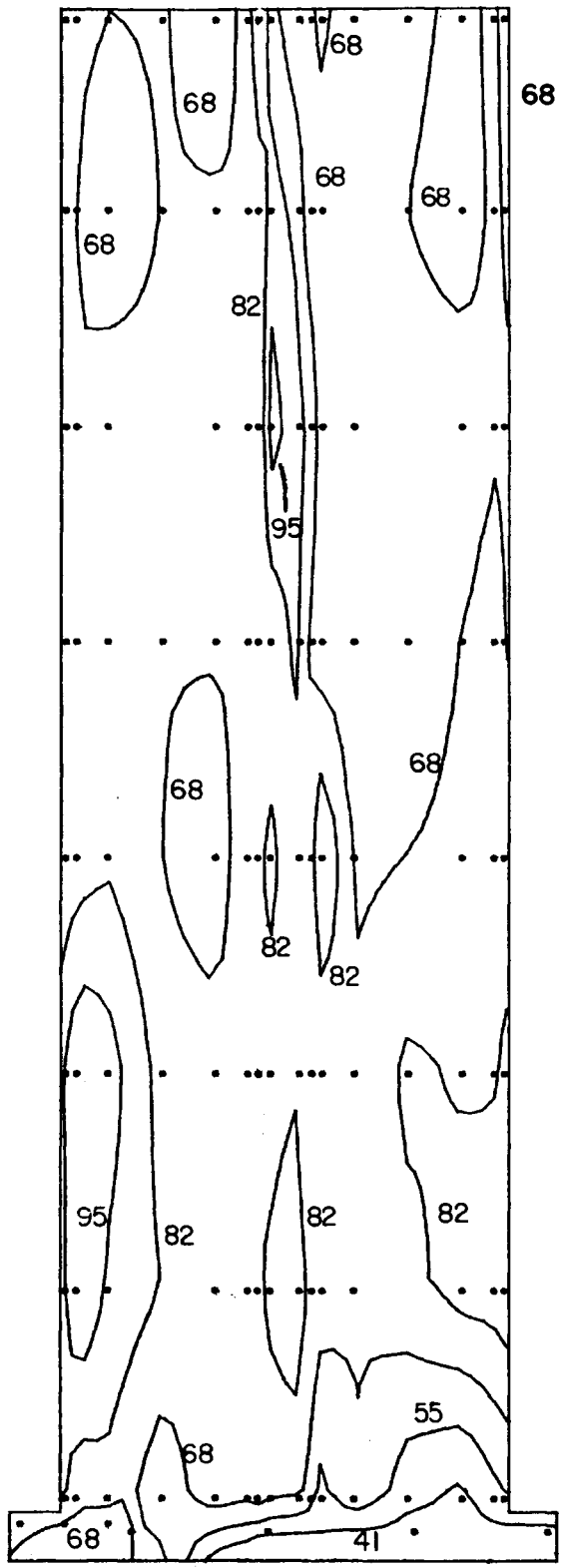


FIGURE 10a PEAK PRESSURE LOADS ON THE BUILDING.

NORTH ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 33 PSF
50 YR. WIND

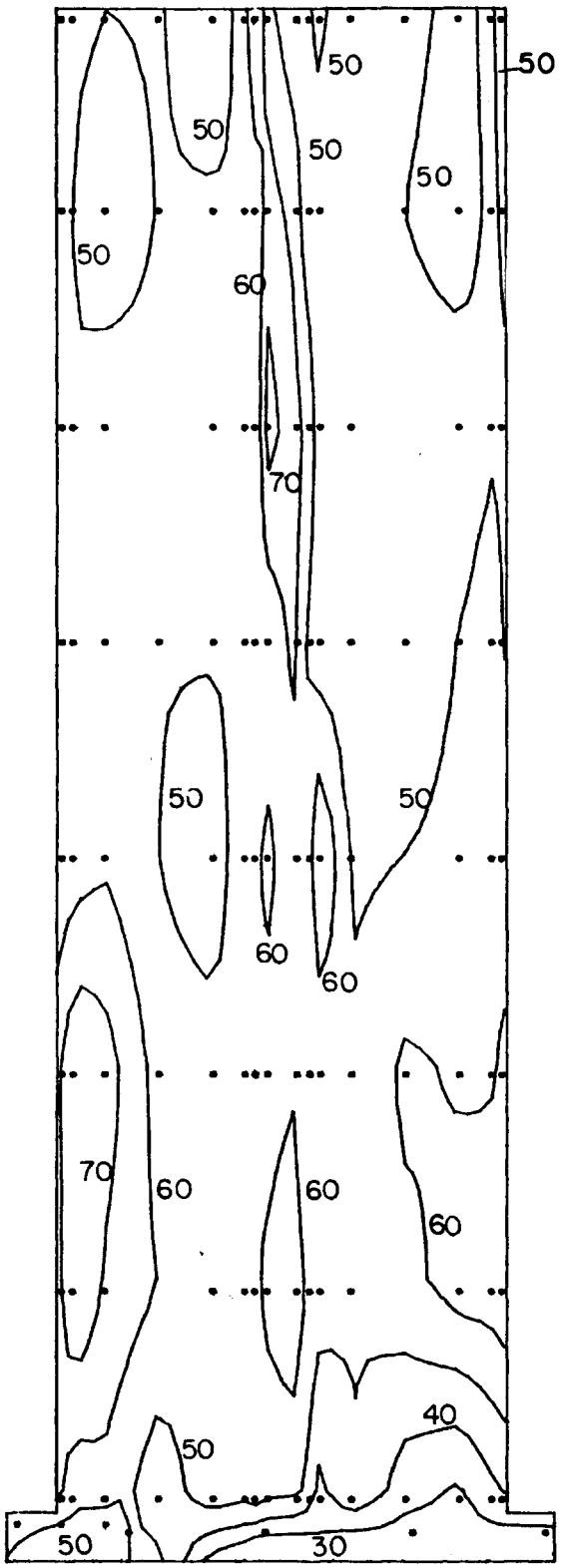


FIGURE 10a PEAK PRESSURE LOADS ON THE BUILDING.

EAST ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 45 PSF
100 YR. WIND

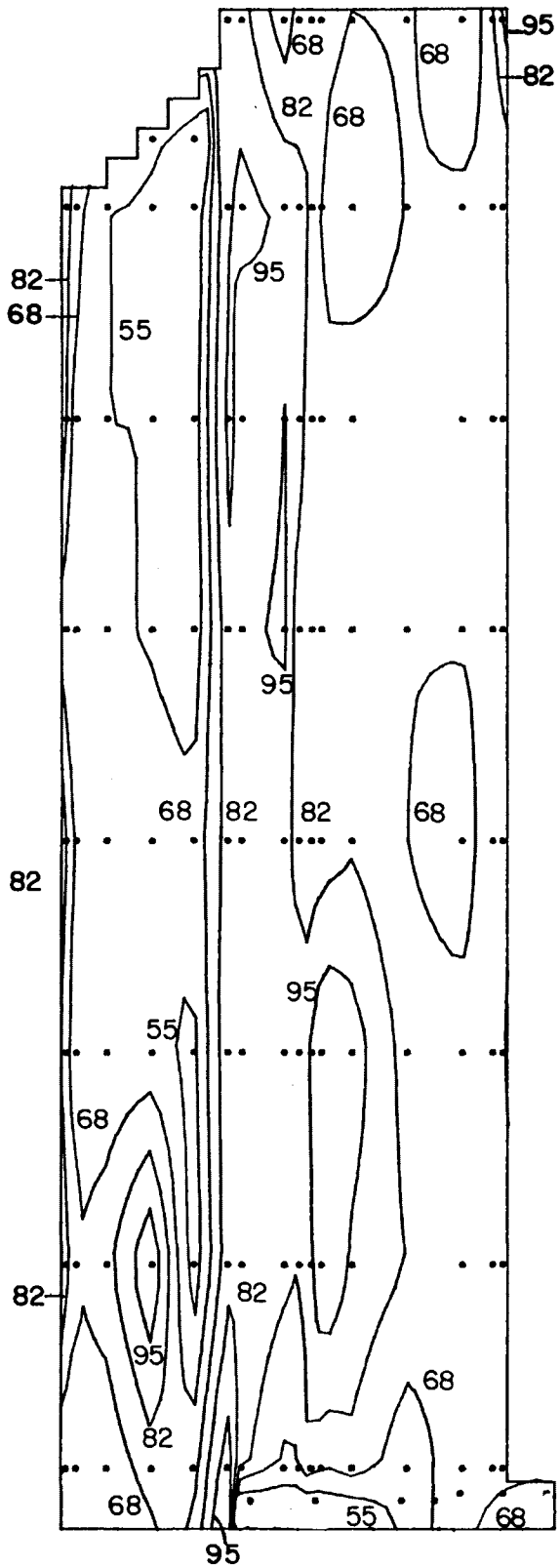


FIGURE 10b PEAK PRESSURE LOADS ON BUILDING.

EAST ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 33 PSF
100 YR. WIND

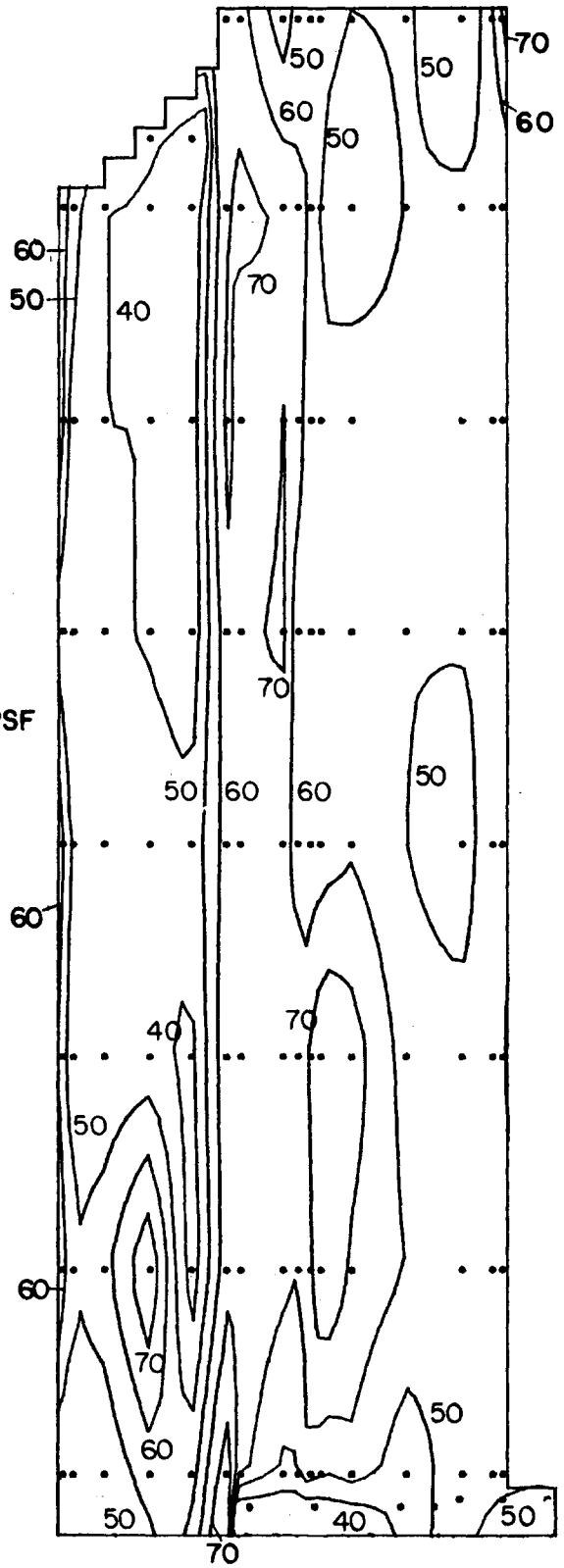


FIGURE 10b PEAK PRESSURE LOADS ON THE BUILDING.

SOUTH ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 45 PSF
100 YR. WIND

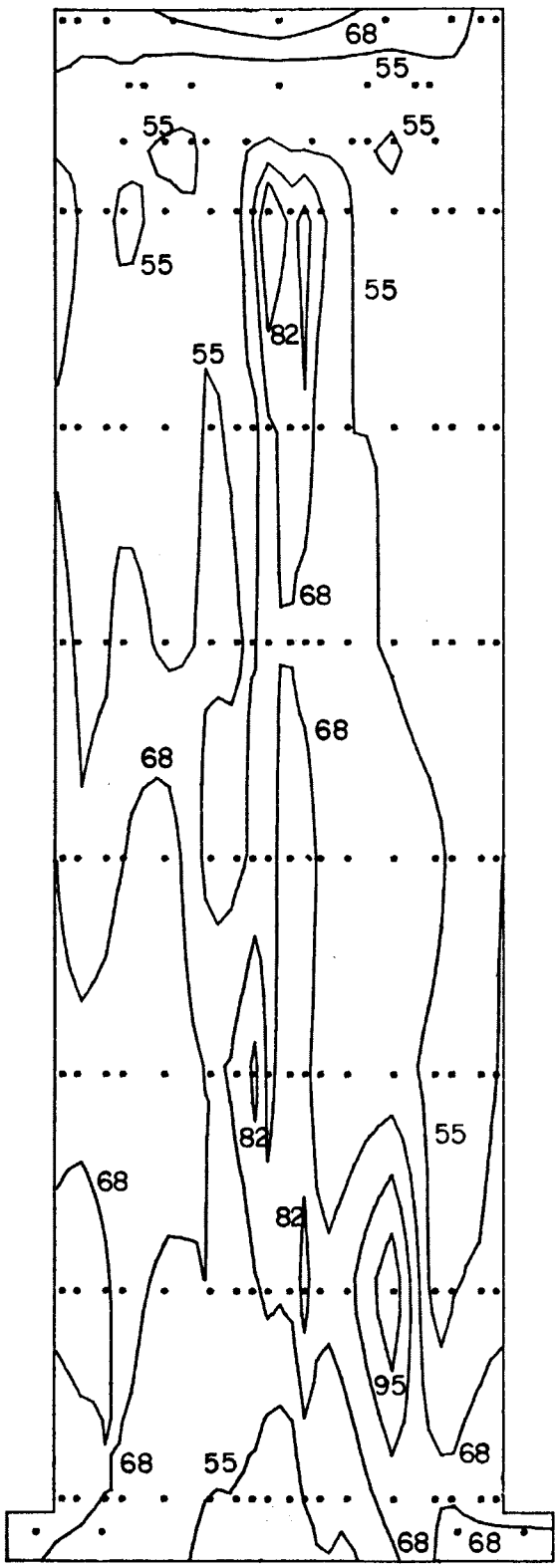


FIGURE 10c PEAK PRESSURE LOADS ON THE BUILDING.

SOUTH ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 33 PSF
50 YR. WIND

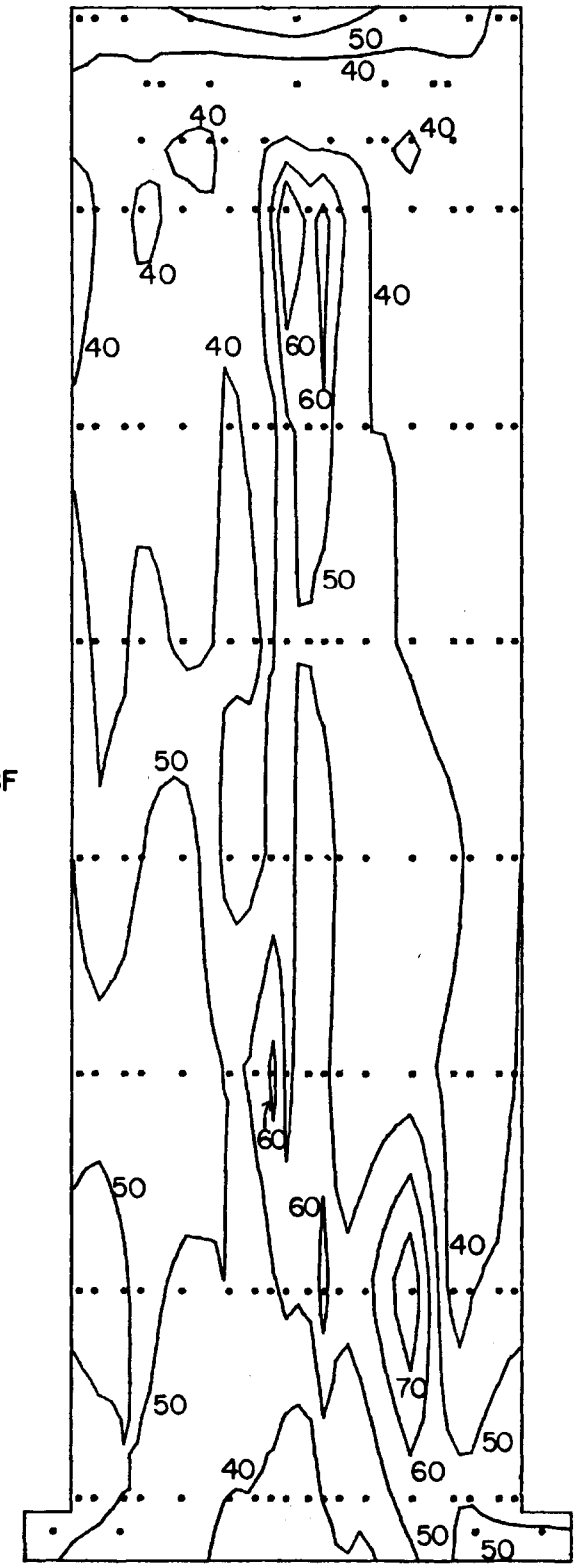


FIGURE 10c PEAK PRESSURE LOADS ON THE BUILDING.

WEST ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 45 PSF
100 YR. WIND

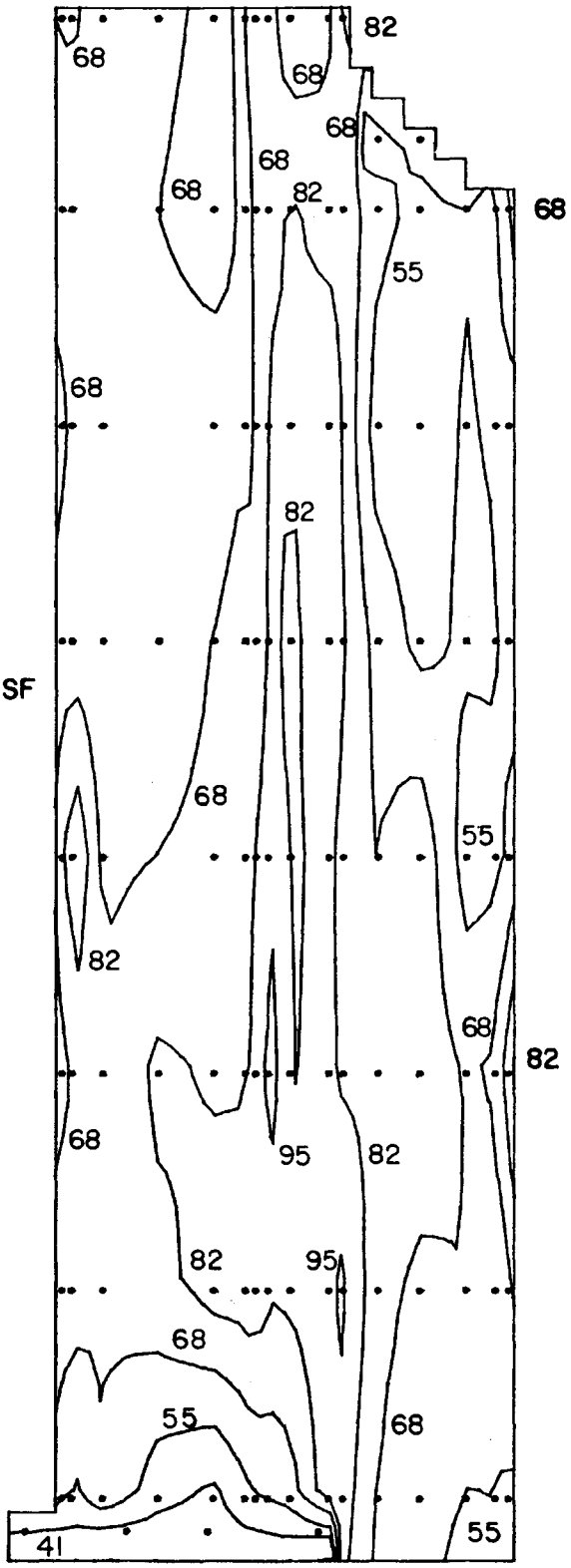


FIGURE 10d PEAK PRESSURE LOADS ON THE BUILDING.

WEST ELEVATION
CLADDING LOADS
REFERENCE PRESSURE = 33 PSF
50 YR. WIND

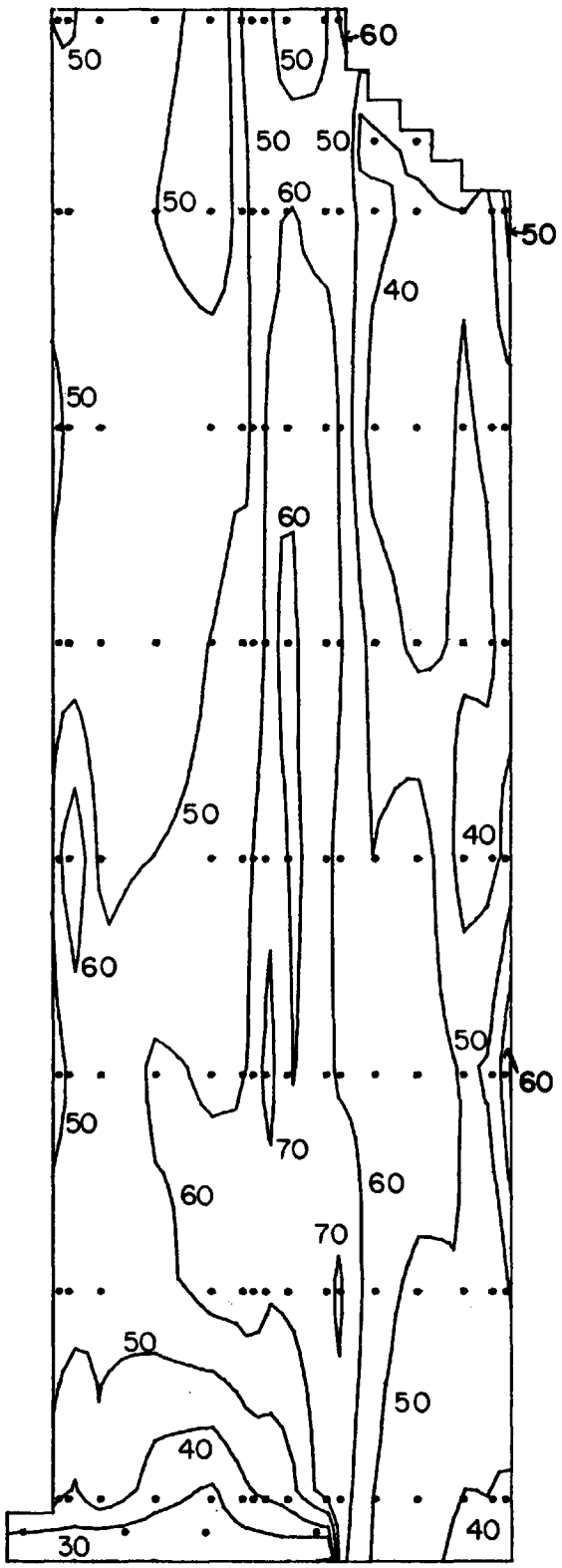


FIGURE 10d PEAK PRESSURE LOADS ON THE BUILDING.

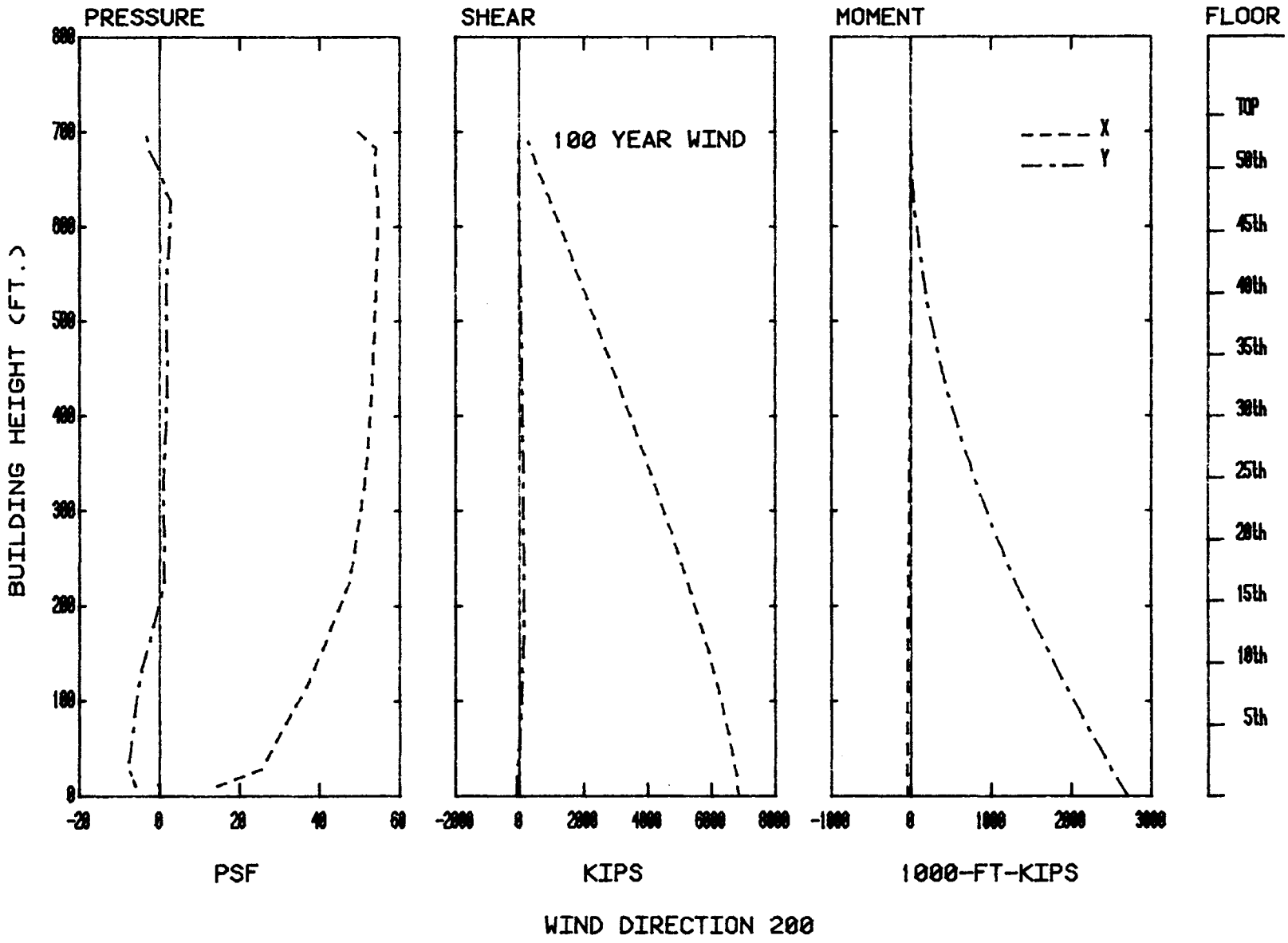


Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions

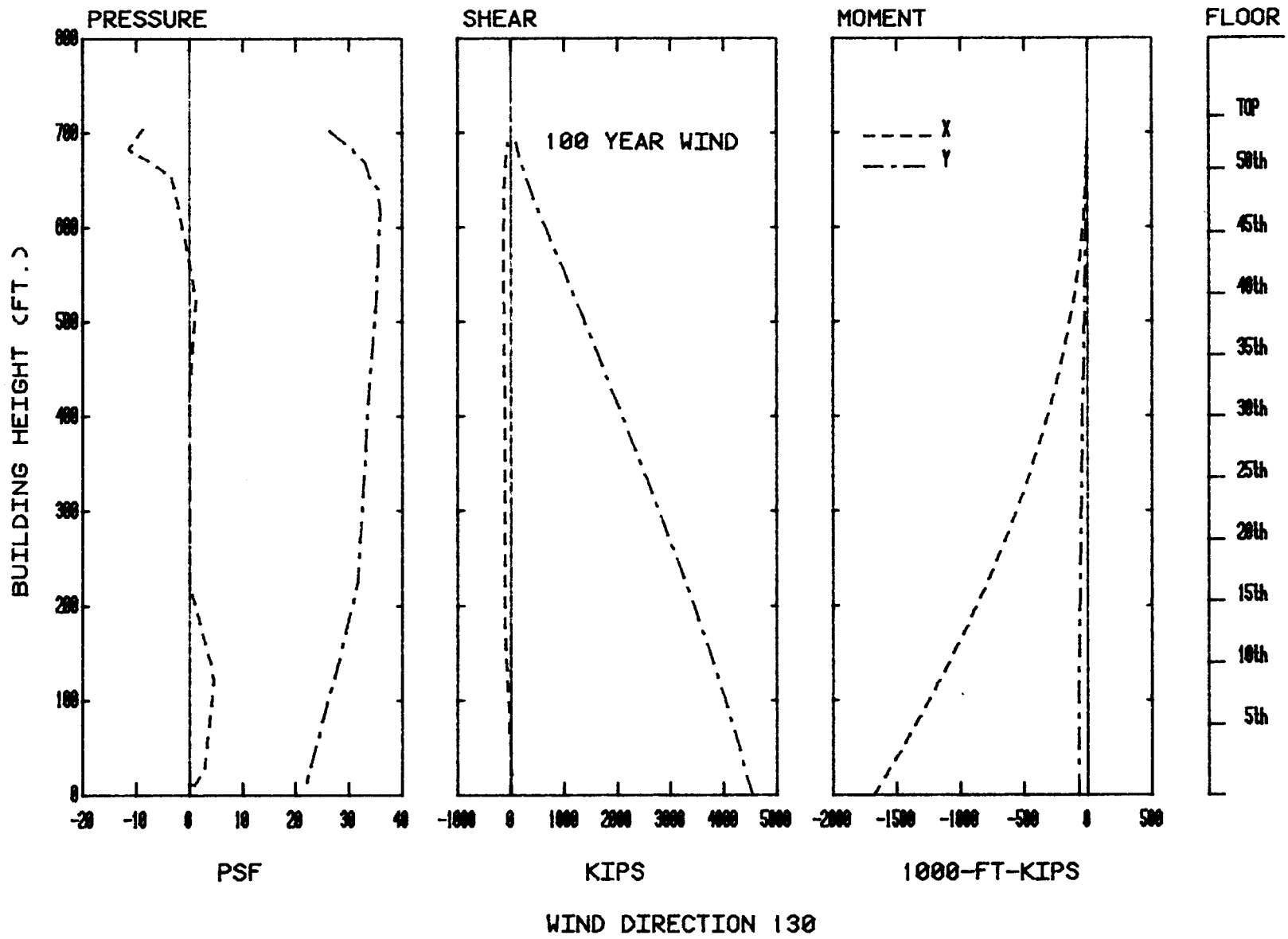


Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions

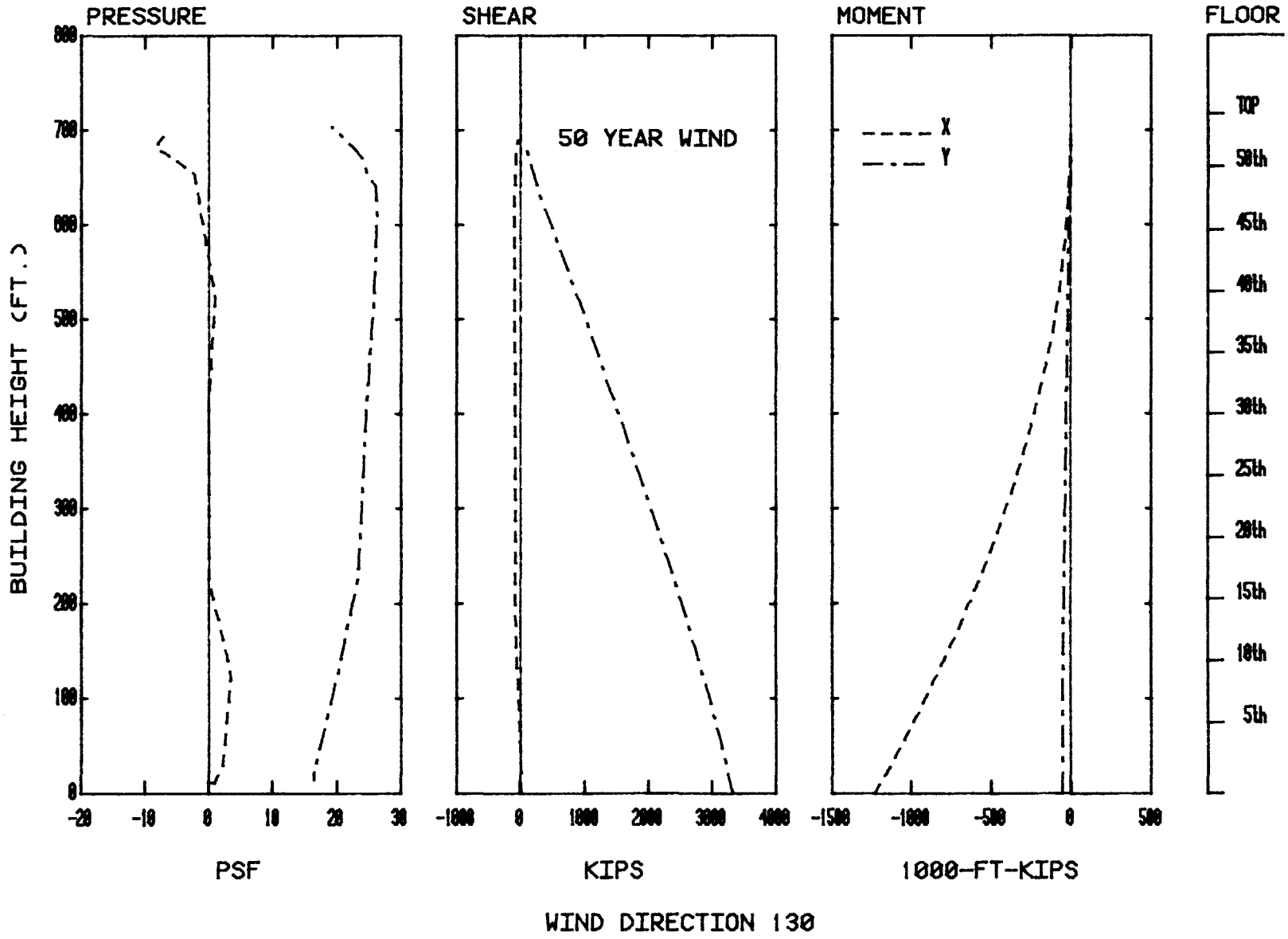


Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions

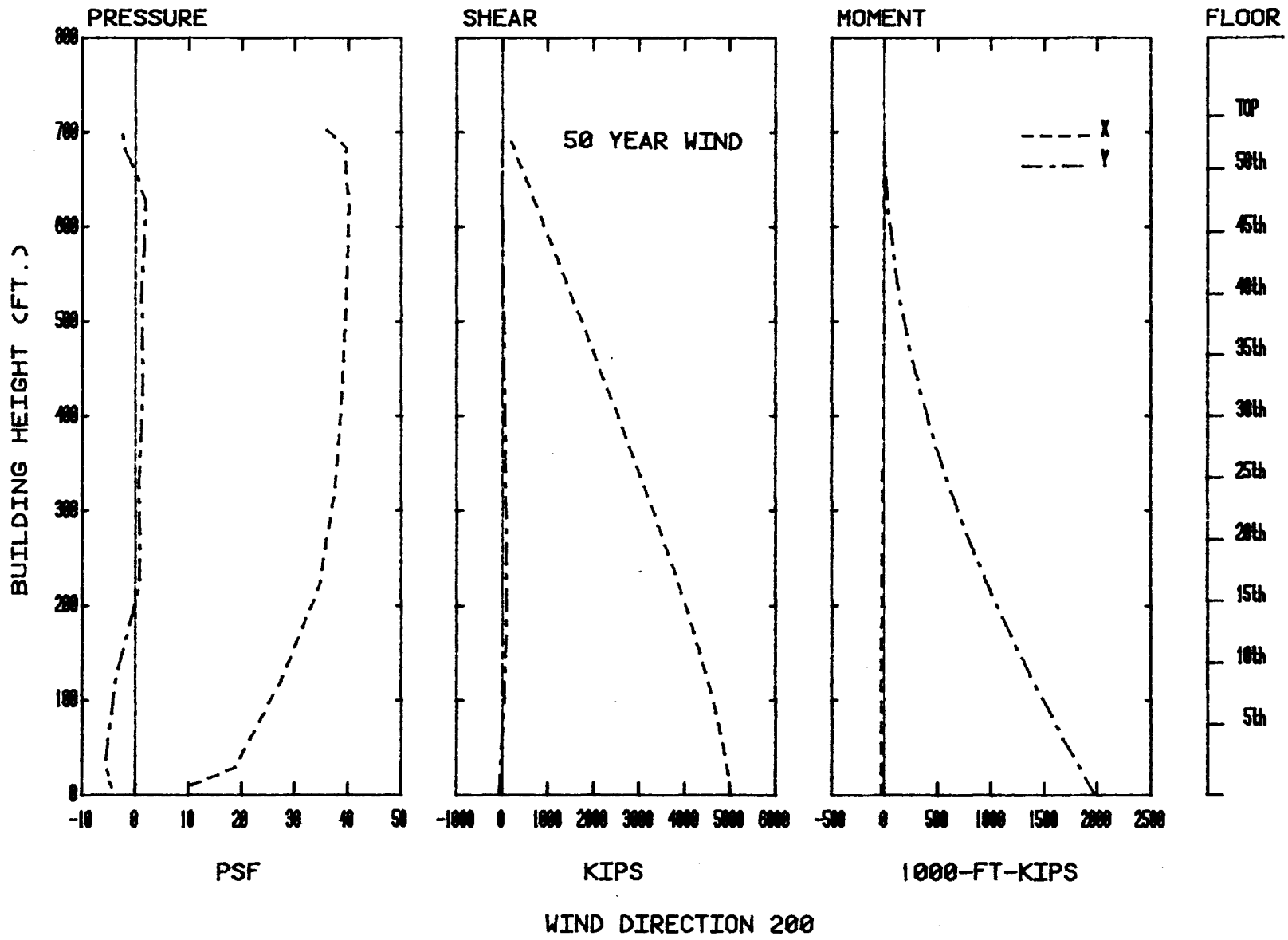


Figure 11. Load, Shear, and Moment Diagrams for Selected Wind Directions

TABLES

TABLE 1

MOTION PICTURE SCENE GUIDE

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

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

III HOUSTON CENTER, HOUSTON

LOCATION 1

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	26.3	12.8	64.8
22.50	17.2	14.9	61.9
45.00	13.4	11.5	47.9
67.50	19.6	9.7	48.8
90.00	28.9	8.6	54.8
112.50	22.7	7.7	45.9
135.00	24.1	10.1	54.3
157.50	23.7	10.0	53.7
180.00	21.9	9.0	49.0
202.50	18.4	6.3	37.2
225.00	11.0	3.2	20.7
247.50	10.8	3.6	21.6
270.00	9.3	2.8	17.7
292.50	11.3	4.2	23.9
315.00	23.0	9.0	50.0
337.50	31.3	9.6	60.0

LOCATION 2

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	48.5	10.7	80.8
22.50	47.2	11.6	82.1
45.00	40.8	10.1	71.1
67.50	29.7	10.7	61.9
90.00	30.7	10.1	61.0
112.50	33.3	12.6	71.0
135.00	26.5	12.0	62.6
157.50	54.9	15.7	101.2
180.00	62.4	13.8	103.9
202.50	61.7	13.2	101.4
225.00	51.6	15.0	96.5
247.50	38.6	12.1	75.0
270.00	10.0	3.1	19.2
292.50	11.6	3.9	23.2
315.00	16.5	5.2	32.1
337.50	29.3	8.0	53.4

LOCATION 3

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	33.7	11.7	69.0
22.50	42.2	14.5	85.7
45.00	31.7	15.3	77.7
67.50	23.2	7.8	46.7
90.00	29.0	8.8	55.3
112.50	36.6	11.2	70.3
135.00	30.2	10.8	62.6
157.50	24.0	7.9	47.5
180.00	27.8	9.9	57.6
202.50	35.3	13.4	75.5
225.00	32.6	15.4	78.7
247.50	34.2	16.6	83.9
270.00	10.9	3.7	22.0
292.50	10.6	3.3	20.5
315.00	14.7	4.9	29.4
337.50	16.8	6.3	35.9

LOCATION 4

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	46.7	9.0	73.8
22.50	50.3	10.2	80.8
45.00	47.6	11.1	80.9
67.50	38.6	9.0	65.6
90.00	31.1	8.4	56.3
112.50	27.9	9.5	56.6
135.00	17.0	7.1	38.4
157.50	25.3	9.1	52.7
180.00	39.6	11.0	72.6
202.50	44.4	11.8	79.9
225.00	41.8	13.9	83.3
247.50	36.5	12.6	74.3
270.00	10.6	4.0	22.7
292.50	13.1	4.7	27.2
315.00	22.1	6.3	41.0
337.50	35.3	7.8	58.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

III HOUSTON CENTER, HOUSTON

LOCATION 5

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	66.3	24.0	138.2
22.50	65.5	10.4	96.5
45.00	59.7	11.4	93.8
67.50	53.0	8.6	78.7
90.00	39.8	6.8	60.1
112.50	25.4	7.0	46.5
135.00	22.5	8.9	49.1
157.50	38.9	10.0	68.9
180.00	56.8	9.6	85.8
202.50	50.8	11.4	84.9
225.00	53.5	12.2	90.0
247.50	59.5	17.5	111.9
270.00	14.8	5.5	31.3
292.50	12.0	3.9	23.7
315.00	15.5	5.5	32.1
337.50	37.4	12.6	75.2

LOCATION 6

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	28.4	13.8	69.9
22.50	28.7	15.9	76.3
45.00	24.6	11.7	59.8
67.50	32.7	11.4	66.7
90.00	24.8	9.2	52.4
112.50	19.8	7.3	41.6
135.00	21.9	8.9	48.6
157.50	26.6	8.9	53.2
180.00	32.0	8.9	58.5
202.50	28.9	11.2	62.4
225.00	31.3	14.3	74.1
247.50	25.7	11.6	60.5
270.00	15.1	5.6	31.8
292.50	16.9	5.1	32.2
315.00	14.2	4.4	27.3
337.50	27.6	10.7	59.6

LOCATION 7

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	19.0	9.3	46.9
22.50	16.5	7.7	39.6
45.00	27.2	16.3	76.1
67.50	25.9	9.9	55.7
90.00	19.4	6.3	38.4
112.50	15.8	5.2	31.3
135.00	26.1	11.7	61.2
157.50	22.4	9.1	49.7
180.00	17.4	5.1	32.6
202.50	18.2	6.4	37.5
225.00	25.4	10.0	55.2
247.50	22.2	8.6	47.9
270.00	14.4	5.3	30.2
292.50	12.3	3.9	24.0
315.00	14.2	4.4	27.5
337.50	19.1	6.7	39.1

LOCATION 8

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	36.6	15.5	83.1
22.50	35.1	16.0	83.1
45.00	32.0	14.3	75.0
67.50	32.0	12.8	70.3
90.00	24.5	10.4	55.9
112.50	21.6	9.4	49.7
135.00	38.2	14.6	82.2
157.50	40.5	13.0	79.5
180.00	27.0	9.6	55.8
202.50	24.4	11.1	57.6
225.00	47.3	12.2	84.0
247.50	40.7	13.3	80.6
270.00	15.0	5.4	31.3
292.50	13.2	4.5	26.6
315.00	16.7	5.6	33.4
337.50	31.2	10.1	61.4

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

III HOUSTON CENTER, HOUSTON

LOCATION 9

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	19.9	8.3	44.7
22.50	23.7	10.8	56.0
45.00	22.2	8.2	46.9
67.50	22.7	10.6	54.6
90.00	23.2	9.3	51.1
112.50	23.7	8.7	49.6
135.00	46.8	15.6	93.6
157.50	55.3	13.2	95.0
180.00	41.6	17.1	92.9
202.50	24.9	11.6	59.8
225.00	32.2	16.1	80.4
247.50	61.7	16.4	110.9
270.00	17.1	7.9	40.9
292.50	13.7	5.9	31.3
315.00	24.6	7.4	46.7
337.50	27.3	9.1	54.7

LOCATION 10

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	23.5	9.5	52.1
22.50	30.0	11.5	64.5
45.00	32.6	15.7	79.7
67.50	44.3	14.6	88.1
90.00	43.4	11.6	78.0
112.50	41.7	8.6	67.6
135.00	42.0	9.2	69.7
157.50	38.9	11.3	72.9
180.00	30.1	13.7	71.2
202.50	23.4	9.0	50.4
225.00	29.4	11.4	63.6
247.50	44.5	15.1	89.8
270.00	14.6	5.9	32.1
292.50	11.7	3.8	23.2
315.00	17.5	7.3	39.5
337.50	22.9	9.6	51.7

LOCATION 11

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	17.3	7.1	38.6
22.50	25.0	10.6	56.9
45.00	24.4	13.9	66.1
67.50	21.5	9.3	49.4
90.00	20.8	7.6	43.6
112.50	25.9	8.4	51.1
135.00	31.0	7.2	52.7
157.50	29.5	8.4	54.7
180.00	20.4	7.7	43.5
202.50	23.4	8.5	48.8
225.00	18.6	7.1	40.0
247.50	18.9	6.5	38.4
270.00	11.9	4.4	25.1
292.50	9.2	2.3	15.9
315.00	10.8	3.3	20.9
337.50	15.2	5.6	31.9

LOCATION 12

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	26.0	11.0	59.1
22.50	29.6	12.9	68.3
45.00	43.3	20.0	103.3
67.50	55.9	14.4	99.2
90.00	42.9	12.8	81.3
112.50	33.9	9.7	62.9
135.00	27.2	11.0	60.2
157.50	33.1	15.7	80.4
180.00	47.9	16.1	96.1
202.50	41.1	16.0	89.0
225.00	32.5	12.5	70.1
247.50	30.5	12.8	69.0
270.00	14.2	5.6	30.9
292.50	11.8	3.8	23.2
315.00	12.6	4.3	25.4
337.50	24.2	8.3	49.0

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES

III HOUSTON CENTER, HOUSTON

LOCATION 13

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	39.6	10.0	69.5
22.50	46.8	9.1	74.2
45.00	50.7	9.9	80.5
67.50	60.2	12.4	97.5
90.00	48.7	11.0	81.7
112.50	28.0	10.7	60.2
135.00	17.2	6.3	36.0
157.50	36.6	12.2	73.2
180.00	61.2	15.3	107.2
202.50	56.8	16.6	106.6
225.00	55.2	11.8	90.6
247.50	46.3	13.1	85.5
270.00	13.7	5.2	29.2
292.50	10.8	3.2	20.3
315.00	12.1	2.9	20.6
337.50	29.4	9.0	56.4

LOCATION 14

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	32.1	11.7	67.1
22.50	30.8	9.2	58.4
45.00	29.5	8.2	54.2
67.50	22.5	8.1	46.7
90.00	17.2	7.0	38.2
112.50	21.0	7.2	42.6
135.00	23.9	7.3	45.8
157.50	20.3	8.1	44.6
180.00	27.2	12.6	64.9
202.50	26.0	13.4	66.1
225.00	33.7	18.8	90.1
247.50	25.8	12.3	62.8
270.00	13.6	4.8	28.0
292.50	8.5	1.7	13.7
315.00	12.9	5.1	28.2
337.50	27.2	7.8	50.6

LOCATION 15

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	50.6	10.5	82.1
22.50	42.8	10.2	73.3
45.00	32.8	11.4	66.9
67.50	19.4	6.8	39.9
90.00	30.9	11.1	64.2
112.50	49.1	11.0	82.2
135.00	50.0	10.4	81.1
157.50	40.7	9.0	67.6
180.00	39.2	12.3	76.1
202.50	26.1	10.7	58.3
225.00	25.4	9.7	54.5
247.50	28.1	11.3	62.0
270.00	14.8	5.5	31.4
292.50	10.6	3.1	20.0
315.00	23.7	6.7	43.8
337.50	38.6	8.0	62.6

LOCATION 16

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	41.7	14.3	84.6
22.50	51.0	8.7	77.2
45.00	59.2	8.7	85.2
67.50	71.8	10.1	102.2
90.00	57.4	11.0	90.4
112.50	22.6	10.5	54.0
135.00	26.8	9.6	55.5
157.50	40.1	10.9	73.0
180.00	27.5	14.2	70.0
202.50	19.8	9.6	48.6
225.00	19.1	8.9	45.7
247.50	15.9	7.0	37.0
270.00	10.0	2.8	18.3
292.50	9.0	1.9	14.7
315.00	9.9	2.7	18.1
337.50	29.4	12.1	65.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

HOUSTON, TEXAS INTERNATIONAL AIRPORT (1951-1960)

SEASON : ANNUAL NO. OF OBS. = 87672 HT. OF MEAS = 87. FT.

VELOCITY LEVELS IN MPH

DIRECTION	0- 3	4- 7	8-12	13-18	19-24	25-31	32-38	39-46	47 +	TOTAL
N	.26	.83	1.87	1.75	.61	.13	.01	.02	0.00	5.46
NNE	.23	.93	1.48	1.44	.54	.13	.05	0.00	0.00	4.80
NE	.29	1.05	2.08	1.44	.36	.11	.04	.01	.01	5.38
ENE	.36	1.24	2.80	2.16	.43	.11	.01	0.00	0.00	7.12
E	.32	1.18	2.30	1.23	.32	.11	.01	0.00	0.00	5.47
ESE	.41	1.87	3.09	2.27	.55	.15	.01	0.00	0.00	8.36
SE	.36	1.40	3.93	3.24	1.10	.21	.07	.06	0.00	10.36
SSE	.37	1.75	4.55	4.70	2.06	.34	.08	.06	0.00	13.92
S	.33	1.53	3.30	2.93	.90	.18	.04	0.00	0.00	9.21
SSW	.31	1.12	2.23	1.65	.52	.14	.03	0.00	0.00	5.99
SW	.28	.94	1.35	.74	.23	.10	.01	0.00	0.00	3.66
WSW	.27	.90	1.23	.66	.23	.07	.03	.01	0.00	3.40
W	.20	.67	.87	.39	.18	.08	.02	.01	0.00	2.40
WNW	.24	.78	1.17	.81	.39	.11	.03	.01	.01	3.56
NW	.20	.76	1.30	.96	.47	.12	.04	.03	.01	3.89
NNW	.22	.79	1.70	1.89	.78	.20	.04	.05	.04	5.70
CALM	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33
TOT	5.97	17.73	35.25	28.26	9.67	2.29	.50	.26	.07	100.00

TABLE 4

SUMMARY OF WIND EFFECTS ON PEOPLE

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

Note: Table from Reference 4, p. 40.

TABLE 5

CALCULATION OF REFERENCE PRESSURE

1. Basic wind speed from ANSI A58.1 (ref. 6):

   50-yr fastest mile at 30 ft = 77 mph

   Mean hourly wind speed, 30 ft = $\frac{77}{1.27}$ = 60.6

   Mean hourly wind speed, gradient level = U_∞ = 60.6 $(\frac{1000}{30})^{.17}$ = 110 mph

   Wind tunnel reference pressure measurement height = 1500 ft.

   Wind tunnel reference velocity = 110 $(\frac{1500}{1300})^{.24}$ = 113.8 mph

   Reference pressure for cladding loads = $0.5\rho U_\infty^2$ = 0.00256 U_∞^2

   = 33.2 psf

   Use <u>33 psf</u>

2. Loads for 100-yr recurrence wind

   100-yr fastest mile at 30 ft = 90 mph

   Multiplication factor for 100-yr winds = $(\frac{90}{77})^2$ = 1.37

   100-yr reference pressure = 45.3 psf Use <u>45 psf</u>

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

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

   The 30 second gust factor was used in Table 7.

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 33.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF	POSITIVE PEAK ----
1	220	1.70	56.1	20.5
2	210	1.50	49.5	19.5
3	220	1.30	43.1	20.8
4	190	1.60	52.7	13.2
5	210	.98	32.4	14.6
6	200	.79	26.1	14.7
7	240	.84	27.6	17.2
8	40	.91	30.2	30.2
9	230	.80	26.4	18.1
10	260	.78	25.8	18.8
11	250	1.03	33.9	17.2
12	130	.68	22.3	18.8
13	260	1.02	33.5	17.1
14	50	1.05	34.6	20.1
15	30	1.30	43.0	16.5
16	30	1.27	41.9	16.4
101	190	1.99	65.6	28.5
102	190	1.95	64.4	30.3
103	190	1.34	44.2	31.2
104	60	1.64	54.1	33.6
105	180	1.76	58.0	27.4
106	170	1.62	53.3	27.9
107	190	1.51	49.7	28.3
108	190	1.54	51.0	22.8
109	190	1.34	44.4	23.8
110	350	1.61	53.2	25.0
111	10	2.29	75.6	24.4
112	100	1.64	54.2	27.9
113	240	1.27	41.9	29.8
114	90	1.52	50.1	21.0
115	90	1.59	52.5	25.4
116	90	1.28	42.4	27.8
117	250	1.34	44.4	27.3
118	250	1.67	55.3	29.1
119	280	1.41	46.4	32.7
120	290	1.73	57.2	34.3
121	20	1.69	55.8	36.1
122	20	1.25	41.3	37.4
123	250	1.43	47.2	34.3
124	230	1.87	61.6	34.4
125	180	2.08	68.5	36.0
126	180	2.21	72.9	34.0
127	190	2.08	68.6	35.2
128	190	1.90	62.6	37.3
129	180	1.81	59.8	39.1
130	180	1.44	47.4	32.3
131	180	1.32	43.7	38.0
132	200	1.53	50.4	34.8
133	0	1.55	51.2	33.9
134	10	1.53	50.5	33.4
135	10	1.52	50.0	35.1
136	100	1.98	65.2	36.2
137	0	1.71	56.3	35.0
138	90	1.24	40.9	32.2
139	90	1.35	44.5	35.4
141	250	1.52	50.2	39.0
142	250	1.78	58.7	34.5
143	260	1.41	46.5	27.3
144	100	1.60	52.8	20.2
145	340	1.65	54.5	18.8
146	260	1.88	61.9	19.5
147	250	1.67	55.3	38.3
148	260	1.74	57.4	34.8
149	180	2.27	74.8	38.3
150	180	1.91	63.0	32.7
151	190	2.13	70.2	31.9
152	190	1.95	64.4	31.8
153	180	1.64	54.0	32.0
154	170	1.58	52.2	33.1
155	180	1.67	55.1	32.7
156	0	1.51	49.7	33.0
157	10	1.59	52.4	32.2
158	190	1.53	50.5	31.9
159	90	2.27	74.9	34.1
160	10	1.92	63.4	33.9
161	230	1.70	56.1	32.1
162	90	1.34	44.2	29.8
163	90	1.32	43.5	31.4
164	230	1.24	40.8	37.8
165	250	1.46	48.2	29.7
166	230	1.44	47.5	17.9
167	230	1.93	63.7	10.0
168	230	1.84	60.6	10.5
169	240	2.11	69.5	17.9
170	250	1.77	58.5	16.7
171	180	2.02	66.7	31.8
172	180	2.07	68.4	30.3
173	200	2.16	71.3	31.0
174	200	1.61	53.0	32.5
175	190	1.72	56.7	33.2
176	190	1.78	58.6	32.4
177	190	1.62	53.5	34.1
178	190	1.53	50.5	40.0
179	0	1.56	51.4	37.9
180	0	1.57	51.9	30.6
181	0	1.63	53.6	29.7
182	100	1.57	51.7	30.5
183	0	1.94	64.1	31.9
184	90	1.35	44.6	32.7
185	80	1.33	44.0	31.1
186	90	1.27	41.9	30.7
187	230	1.30	42.9	34.2
188	230	1.53	50.3	34.2
189	230	1.72	56.7	19.1
190	240	1.50	49.4	15.3
191	250	1.98	65.3	6.7
192	220	1.70	56.1	6.7
193	240	2.15	70.8	12.9
194	230	1.83	60.5	29.3
195	180	1.94	63.9	29.8
196	180	2.01	66.2	32.1
197	180	2.00	65.9	29.7
198	200	1.63	53.7	30.7
199	190	1.56	51.6	29.6
200	190	1.64	54.1	28.7
201	180	1.77	58.4	28.4
202	180	1.27	41.8	30.3
203	10	1.81	59.9	30.1
204	10	1.75	57.9	29.1
205	100	1.91	62.9	29.9
206	330	1.55	51.1	29.1
207	180	1.56	51.6	31.9
208	140	2.21	72.9	29.8
209	220	1.44	47.6	30.6
210	200	1.60	52.8	31.7
211	200	1.76	58.2	32.2
212	200	1.72	56.7	1.2
213	190	2.10	69.1	9.7
214	240	1.77	58.4	7.9
215	240	1.90	62.7	7.9
216	230	1.70	56.1	8.9
217	210	2.05	67.8	25.3
218	190	1.95	64.4	27.7
219	190	1.86	61.3	27.7
220	220	2.14	70.8	26.7
221	220	2.04	67.3	26.7
222	200	2.48	81.7	27.1
223	190	2.29	75.6	27.3
224	210	1.70	56.0	28.1
225	210	1.69	55.8	28.7
226	190	1.60	52.9	26.3
227	190	1.86	61.4	26.9
228	100	1.68	55.3	25.7
229	0	1.78	58.7	27.4

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 33.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF ----	POSITIVE PEAK ---- PSF ----	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF ----	POSITIVE PEAK ---- PSF ----	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF ----	POSITIVE PEAK ---- PSF ----
230	210	1.37	45.2	26.9	278	140	1.53	50.6	24.1	340	170	1.14	37.5	37.5
231	220	1.59	52.5	29.5	279	240	1.00	33.1	28.0	341	160	.95	31.4	31.4
232	230	1.61	53.0	28.7	280	250	.81	26.8	24.1	342	150	1.02	33.7	33.7
233	220	1.88	62.0	29.1	281	250	1.10	36.3	17.4	343	220	1.06	34.9	34.9
234	200	1.79	59.0	30.3	282	190	1.20	39.5	16.6	344	150	.99	32.7	32.7
235	200	1.79	59.1	23.3	283	190	1.25	41.4	8.5	345	150	1.14	37.5	22.8
236	200	1.86	61.4	12.6	284	190	1.34	44.3	12.3	346	240	.96	31.8	31.8
237	190	2.36	77.8	8.9	285	250	2.01	66.3	19.2	347	250	1.10	36.4	36.4
238	210	1.80	59.4	11.9	286	190	1.96	64.7	12.9	348	240	1.02	33.5	33.5
239	200	1.90	62.6	9.3	301	280	1.44	47.5	32.5	349	150	1.09	36.0	33.1
240	230	1.75	57.9	9.2	302	30	1.29	42.6	33.7	350	260	1.24	40.8	40.8
241	200	1.99	65.7	23.2	303	320	1.29	42.6	28.9	351	260	1.18	38.9	38.9
242	200	2.12	70.0	23.9	304	350	1.50	49.6	30.2	352	160	1.07	35.4	35.2
243	60	1.91	63.1	29.3	305	330	1.77	58.4	22.7	353	280	1.47	48.4	30.7
244	60	1.82	60.1	29.9	306	320	1.35	44.5	24.4	354	160	1.60	52.7	35.7
245	190	1.95	64.2	28.0	307	320	1.39	45.8	24.9	355	310	1.80	59.3	34.0
246	220	2.51	82.7	24.8	308	330	1.13	37.1	28.0	356	260	1.28	42.2	32.6
247	190	2.07	68.2	25.1	309	340	1.14	37.6	27.7	357	310	1.21	39.9	37.9
248	190	1.57	51.7	22.5	310	230	1.15	38.0	38.0	358	100	1.21	40.0	32.9
249	240	1.51	49.9	22.3	311	320	1.04	34.4	33.3	359	170	1.03	34.0	34.0
250	190	1.75	57.8	22.5	312	30	.90	29.6	26.0	360	150	1.10	36.4	36.4
251	110	1.89	62.3	23.5	313	330	.88	29.1	25.4	361	160	1.02	33.7	33.7
252	210	2.09	69.0	21.7	314	150	1.02	33.8	27.1	362	160	1.06	35.1	35.1
253	230	1.68	55.4	23.3	315	330	1.07	35.5	34.3	363	150	1.38	45.7	26.1
254	230	1.68	55.4	23.1	316	150	1.10	36.2	35.0	364	150	1.11	36.5	34.2
255	140	1.52	50.2	21.2	317	320	1.09	36.1	32.8	365	150	1.15	37.9	31.3
256	210	1.94	64.2	23.9	318	330	1.29	42.7	36.2	366	150	1.41	46.5	27.3
257	190	1.97	64.9	13.5	319	310	1.38	45.5	34.3	367	150	1.13	37.2	30.0
258	190	2.05	67.7	11.1	320	280	.98	32.5	31.0	368	150	1.26	41.6	30.0
259	190	1.85	61.1	7.6	321	310	1.20	39.7	27.4	369	150	1.25	41.4	29.6
260	190	1.89	62.2	9.5	322	160	1.10	36.1	31.1	370	160	1.14	37.5	26.8
261	220	2.03	67.0	9.2	323	200	1.19	39.2	39.2	371	150	1.49	49.3	28.8
262	200	2.21	73.0	12.2	324	200	1.19	39.3	39.3	372	160	1.53	50.3	30.3
263	210	2.66	87.6	19.6	325	280	1.28	42.3	29.9	373	260	1.30	43.0	28.7
264	190	1.91	62.9	20.4	326	280	1.04	34.2	33.1	374	60	1.22	40.3	31.4
265	70	1.45	48.0	22.5	327	320	1.52	50.3	28.7	375	60	1.29	42.5	30.7
266	60	1.48	48.8	21.9	328	320	1.15	38.0	35.1	376	100	1.17	38.7	31.7
267	190	1.94	64.1	20.4	329	260	1.16	38.3	38.3	377	140	1.00	32.9	32.9
268	210	1.54	51.0	20.1	330	160	1.30	43.0	37.8	378	170	1.09	35.8	35.8
269	190	1.73	57.1	23.3	331	330	1.13	37.4	35.0	379	100	1.00	33.0	32.4
270	200	1.29	42.7	25.0	332	250	1.19	39.4	39.4	380	160	.95	31.4	31.4
271	190	1.73	57.1	22.6	333	260	1.09	35.9	35.9	381	140	1.51	49.9	19.7
272	210	1.66	54.9	21.2	334	170	1.50	49.5	38.8	382	60	1.24	40.8	29.1
273	220	1.76	58.1	19.7	335	280	2.27	75.0	31.1	383	60	1.40	46.1	30.1
274	120	1.63	53.7	19.4	336	160	1.68	55.5	32.9	384	60	1.50	49.7	28.1
275	220	1.56	51.6	18.6	337	280	1.96	64.8	32.9	385	60	1.76	58.2	29.8
276	130	1.41	46.4	21.0	338	270	1.62	53.3	33.7	386	60	1.06	35.1	29.6
277	120	1.08	35.6	18.5	339	310	1.21	40.0	33.5	387	160	1.12	37.0	34.3

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 33.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF	POSITIVE PEAK ----
388	20	1.27	41.8	29.9
389	70	1.39	46.0	28.0
390	150	1.69	55.7	26.3
391	60	1.84	60.7	28.1
392	70	1.40	46.1	30.0
393	250	1.22	40.3	29.3
394	100	1.41	46.4	32.2
395	110	1.31	43.2	33.0
396	100	1.13	37.4	34.4
397	50	1.07	35.4	34.8
398	50	1.22	40.1	31.1
399	60	1.64	54.3	17.3
400	60	1.65	54.3	22.9
401	50	1.66	54.7	25.3
402	50	1.79	59.1	24.2
403	60	1.69	55.9	27.0
404	150	1.50	49.4	25.4
405	50	1.56	51.6	24.9
406	50	2.01	66.4	26.5
407	150	1.45	47.8	21.5
408	150	1.64	54.1	19.6
409	70	1.63	53.7	22.1
410	50	1.32	43.6	29.1
411	40	1.27	41.8	31.7
412	100	1.31	43.3	29.0
413	250	1.13	37.3	26.6
414	40	1.15	38.0	29.2
415	50	.98	32.3	28.3
416	40	1.26	41.5	28.1
417	60	1.40	46.2	20.2
418	60	1.29	42.6	23.8
419	60	1.48	48.7	24.7
420	60	1.59	52.6	23.0
421	60	1.46	48.0	18.6
422	150	1.52	50.3	24.1
423	130	1.22	40.1	29.0
424	120	1.45	47.8	18.8
425	50	1.62	52.9	14.0
426	130	1.54	50.8	19.6
427	60	1.98	65.3	19.3
428	60	1.52	50.3	20.9
429	50	1.73	57.1	25.8
430	60	2.44	80.4	27.4
431	50	.98	32.3	22.8
432	70	1.18	39.0	27.8
433	60	1.28	42.3	25.1
434	60	1.38	45.7	27.6
435	70	1.80	59.3	19.7
436	50	1.74	57.3	18.9
437	60	1.53	50.5	21.2
438	60	1.49	49.1	23.6
439	0	1.37	45.3	25.5
440	40	1.20	39.5	26.7
441	10	1.21	40.1	15.5
442	10	1.17	38.7	16.2
443	140	.94	30.9	16.1
444	80	.92	30.2	14.2
445	40	1.24	40.9	14.7
446	40	1.30	42.9	24.8
447	50	1.27	41.9	22.2
448	50	1.68	55.3	23.0
449	50	1.67	55.1	23.8
450	30	1.59	52.5	26.1
451	90	1.81	59.7	24.6
452	90	1.87	61.8	20.5
453	350	1.68	55.4	18.5
454	50	1.37	45.2	21.1
455	20	1.27	41.8	16.9
456	80	1.38	45.6	25.8
457	70	1.45	47.7	18.3
801	200	.68	22.6	14.6
901	60	1.41	46.5	9.4
902	80	1.44	47.5	10.1
903	50	1.50	49.5	13.8
904	60	1.59	52.4	10.0
905	30	1.22	40.3	12.0
906	190	1.63	53.8	17.1
907	190	1.35	44.5	9.6
908	190	1.55	51.1	11.2
909	270	1.54	50.9	13.6
910	110	1.25	41.3	16.7
911	310	1.10	36.4	32.7
912	130	1.03	34.1	30.5
913	330	.95	31.4	26.6
914	150	1.03	34.0	26.8
915	250	.85	28.0	21.3
916	190	1.09	35.9	20.1
917	190	1.33	43.7	22.4
918	220	1.89	62.4	25.2
919	220	1.74	57.4	18.0
919	220	1.74	57.4	18.0
920	200	1.62	53.4	25.6
921	210	1.59	52.4	18.6
922	250	1.04	34.3	23.1
923	220	1.98	65.2	21.6
924	220	1.43	47.1	21.0
925	190	1.14	37.5	17.4
926	200	1.19	39.2	24.0
927	70	1.40	46.1	30.1
928	200	1.21	39.9	23.1
929	120	.87	28.9	25.0

TABLE 6A. PEAK LOADS FOR CONFIGURATION C : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 33.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK (PSF)	POSITIVE PEAK (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK (PSF)	POSITIVE PEAK (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK (PSF)	POSITIVE PEAK (PSF)
208	140	1.87	61.7	22.4	246	218	2.39	79.0	23.6	430	60	1.49	49.3	24.9
222	192	2.20	72.5	21.7	263	204	2.13	72.1	23.4					

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 45.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK (PSF)	POSITIVE PEAK (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK (PSF)	POSITIVE PEAK (PSF)	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK (PSF)	POSITIVE PEAK (PSF)
1	220	1.70	76.5	28.0	133	0	1.55	69.9	46.2	182	100	1.57	70.6	41.6
2	210	1.50	67.5	26.6	134	10	1.53	68.9	45.6	183	0	1.94	87.5	43.5
3	220	1.30	58.7	28.4	135	10	1.52	68.2	47.8	184	90	1.35	60.8	44.7
4	190	1.60	71.8	17.9	136	100	1.98	88.9	49.3	185	80	1.33	60.0	42.4
5	210	.98	44.1	20.0	137	0	1.71	76.8	47.7	186	90	1.27	57.1	41.9
6	200	.79	35.6	20.1	138	90	1.24	55.7	43.9	187	230	1.30	58.4	46.7
7	240	.84	37.6	23.5	139	90	1.35	60.7	48.2	188	230	1.53	68.6	46.6
8	40	.91	41.1	41.1	141	250	1.52	68.4	53.2	189	230	1.72	77.3	26.1
9	230	.80	36.0	24.6	142	250	1.79	80.1	47.0	190	240	1.50	67.4	20.9
10	260	.78	35.2	25.6	143	260	1.41	63.4	37.2	191	250	1.98	89.0	9.5
11	250	1.03	46.3	23.4	144	100	1.60	72.0	27.6	192	220	1.70	76.4	9.1
12	130	.68	30.5	25.6	145	340	1.65	74.3	25.7	193	240	2.15	96.6	16.8
13	260	1.02	45.7	23.3	146	260	1.88	84.4	26.6	194	230	1.83	82.5	12.2
14	50	1.05	47.1	27.4	147	250	1.67	75.4	52.3	195	180	1.94	87.2	40.6
15	30	1.30	58.6	22.5	148	260	1.74	78.2	47.5	196	180	2.01	90.2	43.8
16	30	1.27	57.2	22.4	149	180	2.27	102.0	52.3	197	180	2.00	89.9	40.5
101	190	1.99	89.5	38.9	150	180	1.91	85.9	44.5	198	200	1.63	73.2	40.9
102	190	1.95	87.8	41.4	151	190	2.11	95.8	43.5	199	190	1.56	70.4	40.5
103	190	1.34	60.3	42.6	152	190	1.95	87.8	43.4	200	190	1.64	73.8	39.1
104	60	1.64	73.8	45.8	153	180	1.63	73.6	43.7	201	180	1.77	79.6	38.7
105	180	1.76	79.1	37.3	154	170	1.58	71.2	45.1	202	180	1.27	56.9	41.4
106	170	1.62	72.7	38.0	155	180	1.67	75.2	44.6	203	10	1.81	81.7	41.1
107	190	1.51	67.8	38.6	156	0	1.51	67.8	45.0	204	10	1.75	79.0	40.8
108	190	1.54	69.5	31.1	157	10	1.59	71.5	43.9	205	100	1.91	85.8	39.8
109	190	1.34	60.5	32.4	158	190	1.53	68.8	43.5	206	330	1.55	69.6	40.4
110	350	1.61	72.6	34.1	159	90	2.27	102.1	46.5	207	180	1.56	70.4	42.9
111	10	2.29	103.0	33.3	160	10	1.92	86.5	46.2	208	140	2.21	99.4	40.7
112	100	1.64	73.9	38.1	161	230	1.70	76.5	43.7	209	220	1.44	64.9	41.7
113	240	1.27	57.2	40.6	162	90	1.34	60.2	40.7	210	200	1.60	72.0	43.2
114	90	1.52	68.3	28.6	163	90	1.32	59.3	42.8	211	200	1.76	79.4	30.4
115	90	1.59	71.6	34.7	164	230	1.24	55.6	51.5	212	200	1.72	77.3	16.4
116	90	1.28	57.8	37.9	165	250	1.45	65.7	40.5	213	190	2.10	94.3	12.5
117	250	1.34	60.5	37.2	166	230	1.44	64.8	24.5	214	240	1.77	79.7	10.6
118	250	1.67	75.4	39.7	167	230	1.93	86.9	13.6	215	240	1.90	85.5	10.2
119	280	1.41	63.3	44.6	168	230	1.84	82.6	14.3	216	230	1.70	76.5	12.2
120	290	1.73	78.0	46.8	169	240	2.11	94.8	24.4	217	210	2.05	92.4	35.4
121	20	1.69	76.1	49.3	170	250	1.77	79.8	22.8	218	190	1.95	87.9	38.1
122	20	1.25	56.3	50.9	171	180	2.02	90.9	43.3	219	190	1.86	83.6	37.9
123	250	1.43	64.3	46.8	172	180	2.07	93.2	41.3	220	220	2.14	96.5	37.2
124	230	1.87	84.0	46.8	173	200	2.17	97.3	42.2	221	220	2.04	91.8	36.4
125	180	2.08	93.4	49.1	174	200	1.61	72.3	44.4	222	200	2.48	111.5	37.0
126	180	2.21	99.4	46.3	175	190	1.72	77.3	45.2	223	190	2.29	103.1	37.2
127	190	2.08	93.6	47.9	176	190	1.78	79.9	44.1	224	210	1.70	76.4	38.8
128	190	1.90	85.4	50.8	177	190	1.62	73.0	46.5	225	210	1.69	76.1	39.1
129	180	1.81	81.5	53.4	178	190	1.53	68.9	54.5	226	190	1.60	72.1	35.9
130	180	1.44	64.6	44.1	179	0	1.5	70.1	51.7	227	190	1.86	83.8	36.7
131	180	1.32	59.6	51.8	180	0	1.5	70.8	41.7	228	100	1.68	75.5	35.3
132	200	1.53	68.8	47.4	181	0	1.6	73.1	40.6	229	0	1.78	80.0	37.4

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 45.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK PSF	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEF	ABSOLUTE PEAK PSF	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK PSF	POSITIVE PEAK
230	210	1.37	61.6	36.7	278	140	1.5	69.1	32.9	340	170	1.14	51.1	51.1
231	220	1.59	71.6	40.2	279	240	1.0	45.1	38.2	341	160	.95	42.8	42.8
232	230	1.61	72.3	39.1	280	250	.8	36.6	32.8	342	150	1.02	45.9	45.9
233	220	1.88	84.6	39.7	281	250	1.1	49.6	23.7	343	220	1.06	47.6	47.6
234	200	1.79	80.5	41.4	282	190	1.2	53.8	22.6	344	150	.99	44.6	44.6
235	200	1.79	80.6	31.8	283	190	1.2	56.4	11.6	345	150	1.14	51.2	31.1
236	200	1.86	83.8	17.2	284	190	1.3	60.4	16.8	346	240	.96	43.4	43.4
237	190	2.36	106.1	12.1	285	250	2.0	90.4	26.2	347	250	1.10	49.7	49.7
238	210	1.80	81.0	16.2	286	190	1.9	88.2	17.6	348	240	1.02	45.7	45.7
239	200	1.90	85.3	12.7	301	280	1.4	64.7	44.4	349	150	1.09	49.1	45.1
240	230	1.75	78.9	12.5	302	30	1.2	58.1	46.0	350	260	1.24	55.7	55.7
241	200	1.99	89.6	31.7	303	320	1.2	58.1	39.5	351	260	1.18	53.3	53.0
242	200	2.12	95.4	32.6	304	350	1.5	67.7	41.2	352	160	1.07	48.3	48.0
243	60	1.91	86.0	40.0	305	330	1.7	79.7	31.0	353	280	1.47	66.3	41.9
244	60	1.82	82.0	40.7	306	320	1.3	60.6	33.3	354	160	1.60	71.9	48.6
245	190	1.95	87.6	38.2	307	320	1.3	62.5	33.9	355	310	1.80	80.8	46.3
246	220	2.51	112.8	33.8	308	330	1.1	50.6	38.2	356	260	1.28	57.5	44.5
247	190	2.07	92.9	34.3	309	340	1.1	51.2	37.7	357	310	1.21	54.5	50.9
248	190	1.57	70.5	30.6	310	230	1.1	51.8	51.8	358	100	1.21	54.5	44.9
249	240	1.51	68.1	30.5	311	320	1.0	46.9	45.5	359	170	1.03	46.3	46.3
250	190	1.75	78.8	30.7	312	30	.9	40.3	35.4	360	150	1.10	49.7	49.7
251	110	1.89	84.9	32.1	313	330	.8	39.7	34.6	361	160	1.02	46.0	46.0
252	210	2.09	94.0	29.6	314	150	1.0	46.1	37.0	362	160	1.06	47.8	47.8
253	230	1.68	75.6	31.7	315	330	1.0	48.4	46.7	363	150	1.38	62.3	35.5
254	230	1.68	75.6	31.5	316	150	1.1	49.4	47.7	364	150	1.11	49.8	46.6
255	140	1.52	68.5	28.9	317	320	1.0	49.2	44.7	365	150	1.15	51.7	42.7
256	210	1.94	87.5	32.7	318	330	1.2	58.2	49.4	366	150	1.41	63.5	37.3
257	190	1.97	88.4	18.4	319	310	1.3	62.0	46.7	367	150	1.13	50.7	40.8
258	190	2.05	92.3	15.1	320	280	.9	44.3	42.2	368	150	1.26	56.7	40.9
259	190	1.85	83.3	10.3	321	310	1.2	54.2	37.4	369	150	1.25	56.4	40.4
260	190	1.89	84.9	12.9	322	160	1.1	49.3	42.5	370	160	1.14	51.2	36.2
261	220	2.03	91.4	12.5	323	200	1.1	53.4	53.4	371	150	1.49	67.2	39.3
262	200	2.21	99.5	16.6	324	200	1.1	53.6	53.6	372	160	1.53	68.6	41.3
263	210	2.66	119.5	26.7	325	280	1.2	57.7	40.7	373	260	1.30	58.6	39.1
264	190	1.91	85.8	27.8	326	280	1.0	46.7	45.2	374	60	1.22	55.0	42.9
265	70	1.45	65.4	30.7	327	320	1.5	68.6	39.1	375	60	1.29	58.0	41.9
266	60	1.48	66.5	29.9	328	320	1.1	51.8	47.9	376	100	1.17	52.8	43.2
267	190	1.94	87.4	27.8	329	260	1.1	52.2	52.2	377	140	1.00	44.8	44.8
268	210	1.54	69.5	27.4	330	160	1.3	58.7	51.5	378	170	1.09	48.9	48.9
269	190	1.73	77.9	31.7	331	330	1.1	51.0	47.7	379	100	1.00	44.9	44.1
270	200	1.29	58.2	34.1	332	250	1.1	53.7	53.7	380	160	.95	42.9	42.9
271	190	1.73	77.9	30.8	333	260	1.0	49.0	49.0	381	140	1.51	68.1	26.9
272	210	1.66	74.9	28.9	334	170	1.5	67.5	52.9	382	60	1.24	55.6	39.7
273	220	1.76	79.2	26.9	335	280	2.2	102.3	42.4	383	60	1.40	62.8	42.2
274	120	1.63	73.2	26.5	336	160	1.6	75.7	44.8	384	60	1.50	67.7	38.2
275	220	1.56	70.3	25.4	337	280	1.9	88.4	44.8	385	60	1.76	79.4	40.3
276	130	1.41	63.3	28.7	338	270	1.6	72.7	46.0	386	60	1.06	47.8	40.3
277	120	1.08	48.5	25.2	339	310	1.2	54.5	45.7	387	160	1.12	50.4	46.3

TABLE 6A. PEAK LOADS FOR CONFIGURATION A : III HOUSTO· CENTER, HOUSTON 100 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 45.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF	POSITIVE PEAK ----
388	20	1.27	57.0	40.8
389	70	1.39	62.8	38.1
390	150	1.69	75.9	35.8
391	60	1.84	82.8	38.4
392	70	1.40	62.9	40.9
393	250	1.22	55.0	40.0
394	100	1.41	63.2	43.9
395	110	1.31	59.0	45.1
396	100	1.13	51.0	46.9
397	50	1.07	48.2	47.5
398	50	1.22	54.7	42.4
399	60	1.64	74.0	23.6
400	60	1.65	74.1	31.3
401	50	1.66	74.6	34.5
402	50	1.79	80.6	33.0
403	60	1.69	76.2	36.9
404	150	1.50	67.4	34.7
405	50	1.56	70.4	33.9
406	50	2.01	90.5	36.2
407	150	1.45	65.1	29.3
408	150	1.64	73.7	26.8
409	70	1.63	73.2	30.1
410	50	1.32	59.5	39.7
411	40	1.27	57.1	43.2
412	100	1.31	59.0	39.5
413	250	1.13	50.9	36.2
414	40	1.15	51.9	39.8
415	50	.98	44.1	38.5
416	40	1.26	56.5	38.3
417	60	1.40	63.0	27.6
418	60	1.29	58.2	32.4
419	60	1.48	66.4	33.6
420	60	1.59	71.7	31.4
421	60	1.46	65.5	25.3
422	150	1.52	68.6	32.9
423	130	1.22	54.7	39.6
424	120	1.4.	65.2	25.6
425	50	1.6	72.1	19.0
426	130	1.5	69.2	26.7
427	60	1.9	89.0	26.3
428	60	1.5	68.6	28.5
429	50	1.7	77.9	35.2
430	60	2.4	109.6	37.4
431	50	.9	44.1	31.1
432	70	1.1.	53.2	37.9
433	60	1.2	57.7	34.2
434	60	1.3	62.3	37.7
435	70	1.8	80.8	26.9
436	50	1.7	78.1	25.7
437	60	1.5	68.8	28.9
438	60	1.4	66.9	32.2
439	0	1.3	61.7	34.8
440	40	1.2.	53.8	36.5
441	10	1.2.	54.6	21.1
442	10	1.1	52.8	22.0
443	140	.9	42.1	22.0
444	80	.9	41.2	19.4
445	40	1.2.	55.8	20.0
446	40	1.3.	58.5	33.9
447	50	1.2.	57.2	30.2
448	50	1.6.	75.4	31.3
449	50	1.6	75.1	32.4
450	30	1.5	71.6	35.5
451	90	1.8	81.4	33.6
452	90	1.8	84.3	28.0
453	350	1.6	75.5	25.2
454	50	1.3	61.6	28.8
455	20	1.2	57.0	23.0
456	80	1.38	62.2	35.2
457	70	1.45	65.0	25.0
801	200	.68	30.8	19.9
901	60	1.41	63.4	12.8
902	80	1.44	64.7	13.8
903	50	1.50	67.5	18.9
904	60	1.59	71.5	13.7
905	30	1.22	54.9	16.3
906	190	1.63	73.4	23.4
907	190	1.35	60.7	13.1
908	190	1.55	69.7	15.2
909	270	1.54	69.5	18.5
910	110	1.25	56.3	22.7
911	310	1.10	49.6	44.6
912	130	1.03	46.5	41.5
913	330	.95	42.8	36.3
914	150	1.03	46.4	36.5
915	250	.85	38.1	29.0
916	190	1.09	49.0	27.4
917	190	1.33	59.6	30.5
918	220	1.89	85.0	34.4
919	220	1.74	78.3	24.6
919	220	1.74	78.3	24.6
920	200	1.62	72.9	34.9
921	210	1.59	71.5	25.4
922	250	1.04	46.7	31.5
923	220	1.98	88.9	29.5
924	220	1.43	64.2	28.7
925	190	1.14	51.1	23.8
926	200	1.19	53.5	32.8
927	70	1.40	62.8	41.1
928	200	1.21	54.4	31.5
929	120	.87	39.4	34.1

TABLE 6A. PEAK LOADS FOR CONFIGURATION C : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
LARGEST VALUES OF CLADDING LOAD REFERENCE PRESSURE = 45.0 PSF

TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF	POSITIVE PEAK ----	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF	POSITIVE PEAK ----	TAP	AZI-MUTH	PRESS COEFF	ABSOLUTE PEAK ---- PSF	POSITIVE PEAK ----
208	140	1.87	84.1	30.5	246	218	2.3	107.8	32.2	430	60	1.49	67.3	34.0
222	192	2.20	98.9	29.6	263	204	2.1	98.3	31.9					

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
CONFIGURATION A REFERENCE PRESSURE 45.0 GUST FACTOR 1.32

AZIMUTH DEGREES	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
0	-1894.2	-2633.8	1095.5	-628.3	-27.7
10	-2289.3	-2500.8	1043.7	-762.3	-56.1
20	-3445.7	-1644.3	694.3	-1228.6	-48.1
30	-4490.1	-1175.0	490.5	-1637.6	-35.9
40	-4946.9	-586.2	233.7	-1799.5	-17.9
50	-5259.2	-199.3	6.0	-1918.2	7.7
60	-5125.2	224.4	-215.0	-1860.4	26.7
70	-4827.0	1017.2	-555.1	-1723.4	32.9
80	-3771.7	2213.4	-1029.4	-1352.0	24.4
90	-2397.5	3190.4	-1394.9	-787.0	7.7
100	-1807.3	3184.9	-1314.0	-716.0	-28.6
110	-1129.9	3817.5	-1471.9	-597.6	-49.2
120	-578.0	4396.2	-1634.4	-328.8	-42.2
130	20.5	4544.8	-1671.7	-67.3	-13.2
140	244.2	4188.8	-1515.6	97.5	11.3
150	459.2	3476.9	-1288.9	171.2	23.5
160	1815.7	2090.6	-772.8	706.0	31.5
170	3942.4	289.2	-78.8	1559.1	33.5
180	5357.5	-261.2	153.3	2112.8	31.9
190	6697.8	-276.1	74.9	2586.6	-2.1
200	6868.1	-93.9	-38.7	2704.0	-5.8
210	6502.0	-155.2	-2.3	2567.9	4.0
220	6243.1	5.9	-68.4	2459.9	4.4
230	5447.6	-292.0	68.5	2150.3	13.0
240	5085.0	-636.1	182.8	1959.3	15.0
250	3965.2	-873.5	292.3	1583.2	18.2
260	2028.6	-335.6	127.3	905.2	18.9
270	680.4	-117.4	66.2	352.0	1.9
280	212.6	-364.4	211.1	98.2	-3.6
290	259.2	-428.7	258.1	118.2	-4.5
300	118.3	-595.5	323.0	15.3	-1.9
310	-598.3	-1308.8	679.3	-352.2	4.3
320	-1305.9	-1446.9	635.8	-658.4	3.6
330	-1678.5	-1623.5	648.6	-764.4	2.5
340	-2085.4	-1796.0	713.6	-833.8	1.5
350	-2382.3	-1994.4	812.0	-905.5	-8.5

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
CONFIGURATION A REFERENCE PRESSURE 33.0 GUST FACTOR 1.32

AZIMUTH DEGREES	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT 1000-FT-KIPS	Z-MOMENT
0	-1389.1	-1931.5	803.4	-460.7	-20.3
10	-1678.8	-1833.9	765.4	-559.3	-41.2
20	-2526.8	-1205.8	509.2	-901.0	-35.3
30	-3292.7	-861.6	359.7	-1200.9	-26.0
40	-3627.7	-429.9	171.4	-1319.6	-13.1
50	-3856.7	-146.2	4.4	-1406.6	5.7
60	-3758.5	164.6	-157.6	-1364.3	19.6
70	-3539.8	746.0	-407.1	-1263.8	24.1
80	-2765.9	1623.2	-754.9	-991.4	17.9
90	-1758.1	2339.6	-1022.9	-577.6	5.7
100	-1325.3	2335.6	-963.6	-525.1	-20.9
110	-828.6	2799.5	-1079.4	-438.3	-36.1
120	-423.9	3223.9	-1198.5	-241.1	-31.1
130	15.0	3332.8	-1225.9	-49.3	-9.7
140	179.1	3071.8	-1111.5	71.5	8.7
150	336.7	2549.8	-945.2	125.6	17.2
160	1331.5	1533.1	-566.7	517.7	23.4
170	2891.1	212.1	-57.2	1143.3	26.0
180	3928.8	-191.5	112.4	1561.2	14.0
190	4911.7	-202.5	54.9	1896.6	-2.1
200	5036.6	-68.9	-28.4	1982.9	-4.2
210	4768.1	-113.8	-1.7	1883.1	2.9
220	4578.3	4.4	-50.1	1803.8	3.5
230	3994.9	-214.1	50.2	1576.9	9.6
240	3729.0	-466.5	134.0	1436.8	11.0
250	2907.8	-640.6	214.4	1161.0	13.4
260	1487.6	-246.1	93.3	663.6	13.9
270	499.0	-86.1	48.6	258.3	1.4
280	155.9	-267.3	154.8	71.8	-2.7
290	190.1	-314.4	189.2	86.7	-3.3
300	86.7	-436.7	236.9	11.2	-1.4
310	-438.7	-959.8	498.1	-258.3	2.9
320	-957.6	-1061.1	466.3	-482.5	2.7
330	-1230.9	-1190.6	475.7	-560.6	1.5
340	-1529.3	-1317.1	523.3	-611.5	1.1
350	-1747.0	-1462.5	595.5	-664.0	-6.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 0 CONFIGURATION A REFERENCE PRESSURE 45 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
STRT	0.00	-62.9	-47.1	5449	5023	-11.5	-9.4	-1894.2	-2633.8	1095.5	-628.3	-27.7
MEZZ	22.00	-57.1	-28.6	2847	2898	-20.0	-9.9	-1831.3	-2586.8	1038.1	-587.1	-25.5
2	36.00	-59.3	-26.5	2643	2691	-19.0	-9.8	-1774.2	-2558.2	1002.0	-562.1	-25.5
3	49.00	-47.6	-26.4	2643	2691	-18.0	-9.8	-1726.4	-2531.8	969.0	-539.0	-25.4
4	62.00	-45.0	-26.4	2643	2691	-17.0	-9.8	-1679.8	-2505.4	937.3	-515.9	-25.3
5	75.00	-42.4	-26.3	2643	2691	-16.0	-9.8	-1634.4	-2478.8	906.8	-493.7	-25.2
6	88.00	-39.8	-26.2	2643	2691	-15.0	-9.8	-1589.2	-2452.3	877.4	-472.4	-25.1
7	101.00	-37.1	-26.2	2643	2691	-14.0	-9.8	-1544.9	-2425.8	849.1	-452.0	-24.9
8	114.00	-34.5	-26.1	2643	2691	-13.1	-9.7	-1501.7	-2400.1	822.0	-432.5	-24.8
9	127.00	-34.0	-27.4	2643	2691	-12.9	-10.2	-1457.6	-2374.0	795.9	-413.8	-24.6
10	140.00	-34.5	-29.4	2643	2691	-13.0	-10.9	-1413.6	-2346.6	770.7	-395.8	-24.3
11	153.00	-35.0	-31.3	2643	2691	-13.2	-11.6	-1369.1	-2317.9	746.2	-378.5	-24.1
12	166.00	-35.5	-33.3	2643	2691	-13.4	-12.4	-1324.1	-2285.9	722.6	-361.8	-23.8
13	179.00	-35.9	-35.2	2643	2691	-13.6	-13.1	-1278.6	-2252.6	699.7	-345.8	-23.5
14	192.00	-36.4	-37.2	2643	2691	-13.8	-13.8	-1232.7	-2217.4	677.2	-330.4	-23.2
15	205.00	-36.9	-39.2	2643	2691	-14.0	-14.6	-1186.3	-2180.1	655.2	-315.6	-22.8
16	218.00	-37.4	-41.1	2643	2691	-14.1	-15.3	-1139.4	-2141.0	633.6	-301.4	-22.4
17	231.00	-37.2	-42.1	2643	2691	-14.1	-15.6	-1092.0	-2099.8	612.4	-287.8	-22.0
18	244.00	-37.1	-43.0	2643	2691	-14.0	-16.0	-1044.9	-2057.7	591.6	-274.7	-21.6
19	257.00	-36.9	-43.9	2643	2691	-14.0	-16.3	-997.8	-2014.7	571.2	-262.1	-21.1
20	270.00	-36.8	-44.9	2643	2691	-13.9	-16.7	-950.9	-1970.8	551.2	-250.0	-20.6
21	283.00	-36.6	-45.8	2643	2691	-13.9	-17.0	-904.3	-1925.9	531.5	-238.3	-20.1
22	296.00	-36.5	-46.7	2643	2691	-13.8	-17.4	-857.8	-1880.0	512.3	-227.1	-19.6
23	309.00	-36.3	-47.6	2643	2691	-13.7	-17.7	-811.5	-1833.2	493.5	-216.3	-19.0
24	322.00	-36.0	-48.6	2643	2691	-13.6	-18.1	-765.4	-1785.5	475.1	-205.9	-18.5
25	335.00	-35.7	-49.7	2643	2691	-13.4	-18.5	-719.5	-1736.8	457.1	-195.9	-17.9
26	348.00	-34.9	-50.7	2643	2691	-13.1	-18.9	-673.8	-1687.0	439.5	-186.4	-17.4
27	361.00	-33.9	-51.8	2643	2691	-12.8	-19.2	-628.4	-1636.0	422.3	-177.3	-16.8
28	374.00	-33.2	-52.8	2643	2691	-12.6	-19.6	-583.3	-1583.8	405.5	-168.6	-16.3
29	387.00	-32.6	-53.9	2643	2691	-12.3	-20.0	-538.4	-1530.3	389.1	-160.3	-15.7
30	400.00	-31.9	-55.0	2643	2691	-12.1	-20.4	-493.8	-1475.5	373.1	-152.4	-15.2
31	413.00	-31.2	-56.0	2643	2691	-11.8	-20.8	-449.6	-1419.3	357.5	-144.9	-14.6
32	426.00	-30.8	-56.7	2643	2691	-11.6	-21.2	-405.7	-1361.8	342.3	-137.8	-14.1
33	439.00	-30.6	-57.0	2643	2691	-11.6	-21.3	-362.1	-1303.0	327.5	-131.0	-13.5
34	452.00	-30.4	-57.4	2643	2691	-11.5	-21.3	-318.9	-1242.9	313.1	-124.6	-13.0
35	465.00	-30.3	-57.8	2643	2691	-11.4	-21.5	-275.9	-1181.5	299.1	-118.5	-12.4
36	478.00	-30.1	-58.2	2643	2691	-11.4	-21.6	-233.2	-1118.8	285.5	-112.8	-11.9
37	491.00	-29.9	-58.5	2643	2691	-11.3	-21.8	-190.8	-1054.8	272.3	-107.4	-11.3
38	504.00	-29.7	-58.9	2643	2691	-11.2	-21.9	-148.6	-989.5	259.5	-102.3	-10.8
39	517.00	-29.6	-59.3	2643	2691	-11.2	-22.0	-106.7	-923.0	247.0	-97.5	-10.3
40	530.00	-29.5	-60.3	2643	2691	-11.2	-22.4	-65.1	-855.2	234.9	-93.0	-9.8
41	543.00	-29.4	-61.3	2643	2691	-11.1	-22.8	-23.6	-786.2	223.2	-88.7	-9.3
42	556.00	-29.4	-62.3	2643	2691	-11.1	-23.1	17.8	-715.9	211.8	-84.6	-8.9
43	569.00	-29.3	-63.3	2643	2691	-11.1	-23.5	59.1	-644.4	200.8	-80.7	-8.4
44	582.00	-29.2	-64.3	2643	2691	-11.1	-23.9	100.1	-571.6	190.1	-77.0	-8.0
45	595.00	-29.2	-65.3	2643	2691	-11.0	-24.3	140.8	-497.6	179.8	-73.6	-7.6
46	608.00	-29.1	-66.3	2643	2691	-11.0	-24.7	181.2	-422.3	169.8	-70.3	-7.1
47	621.00	-29.1	-66.8	2643	2691	-11.0	-24.8	221.3	-345.8	160.1	-67.2	-6.7
48	634.00	-31.3	-70.6	2847	2599	-11.0	-27.2	262.6	-268.0	150.7	-64.3	-6.3
49	648.00	-31.3	-68.7	2847	2403	-11.0	-28.6	303.9	-190.9	141.6	-61.5	-5.9
50	662.00	-32.6	-67.1	2847	2207	-11.5	-30.4	345.2	-127.6	132.7	-58.9	-5.5
51	676.00	-34.2	-65.0	2847	2007	-12.0	-32.4	387.4	-94.9	123.9	-56.4	-5.2
PENT	690.00	-60.7	-122.2	5693	3733	-10.7	-32.7	448.1	-60.7	115.2	-54.0	-4.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-60.9	-63.5	5449	5023	-11.2	-12.6	-2289.3	-2500.8	1043.7	-762.7	-56.1
MEZZ	22.00	-62.2	-29.2	2847	2898	-21.9	-10.1	-2228.4	-2437.3	989.4	-713.0	-53.9
2	36.00	-55.1	-26.8	2643	2691	-20.9	-10.0	-2166.2	-2408.1	955.4	-684.3	-52.9
3	49.00	-52.6	-26.6	2643	2691	-19.9	-9.9	-2111.0	-2381.3	924.5	-654.5	-52.8
4	62.00	-50.0	-26.3	2643	2691	-18.9	-9.8	-2058.4	-2354.7	893.5	-627.4	-52.6
5	75.00	-47.5	-26.0	2643	2691	-18.0	-9.7	-2008.4	-2328.4	863.1	-600.9	-52.4
6	88.00	-44.9	-25.8	2643	2691	-17.0	-9.6	-1960.9	-2302.3	833.0	-575.1	-52.1
7	101.00	-42.4	-25.5	2643	2691	-16.0	-9.5	-1916.0	-2276.5	803.2	-549.9	-51.8
8	114.00	-39.8	-25.3	2643	2691	-15.1	-9.4	-1873.6	-2251.0	773.8	-525.3	-51.4
9	127.00	-40.0	-25.8	2643	2691	-15.1	-9.6	-1833.8	-2225.7	744.7	-501.2	-51.0
10	140.00	-41.5	-26.6	2643	2691	-15.7	-9.9	-1793.8	-2200.0	715.9	-477.6	-50.5
11	153.00	-42.9	-27.5	2643	2691	-16.2	-10.2	-1752.3	-2173.4	687.5	-454.6	-50.0
12	166.00	-44.4	-28.3	2643	2691	-16.8	-10.5	-1709.4	-2145.9	659.4	-432.1	-49.4
13	179.00	-45.9	-29.1	2643	2691	-17.3	-10.8	-1665.0	-2117.6	631.7	-410.1	-48.8
14	192.00	-47.3	-30.0	2643	2691	-17.9	-11.1	-1619.2	-2088.5	604.4	-388.6	-48.1
15	205.00	-48.8	-30.8	2643	2691	-18.5	-11.5	-1571.8	-2058.5	577.4	-367.6	-47.3
16	218.00	-50.3	-31.7	2643	2691	-19.0	-11.8	-1523.0	-2027.6	550.9	-347.0	-46.5
17	231.00	-50.0	-33.1	2643	2691	-18.9	-12.3	-1472.8	-1996.0	524.7	-326.8	-45.7
18	244.00	-49.7	-34.6	2643	2691	-18.8	-12.8	-1422.8	-1962.8	498.7	-307.0	-44.9
19	257.00	-49.4	-36.0	2643	2691	-18.7	-13.4	-1373.0	-1928.3	473.0	-287.5	-44.0
20	270.00	-49.2	-37.5	2643	2691	-18.6	-13.9	-1323.6	-1892.3	447.5	-268.3	-43.1
21	283.00	-48.9	-38.9	2643	2691	-18.5	-14.5	-1274.5	-1854.8	422.4	-249.5	-42.3
22	296.00	-48.6	-40.3	2643	2691	-18.4	-15.0	-1225.9	-1815.9	397.6	-231.0	-41.4
23	309.00	-48.3	-41.8	2643	2691	-18.3	-15.5	-1176.9	-1775.6	373.1	-212.8	-40.5
24	322.00	-47.9	-43.2	2643	2691	-18.1	-16.1	-1128.6	-1733.8	348.9	-194.9	-39.5
25	335.00	-47.1	-44.6	2643	2691	-17.8	-16.6	-1080.7	-1690.6	325.0	-177.3	-38.5
26	348.00	-46.3	-46.1	2643	2691	-17.5	-17.1	-1033.5	-1645.9	301.4	-160.0	-37.5
27	361.00	-45.5	-47.5	2643	2691	-17.2	-17.6	-987.1	-1599.9	278.1	-143.0	-36.4
28	374.00	-44.8	-48.9	2643	2691	-16.9	-18.2	-941.7	-1552.4	255.1	-126.4	-35.3
29	387.00	-44.0	-50.3	2643	2691	-16.6	-18.7	-896.9	-1503.5	232.4	-110.1	-34.1
30	400.00	-43.2	-51.7	2643	2691	-16.3	-19.2	-852.9	-1453.2	210.1	-94.2	-33.0
31	413.00	-42.4	-53.2	2643	2691	-16.0	-19.8	-809.7	-1401.5	188.1	-78.6	-31.8
32	426.00	-40.9	-54.6	2643	2691	-15.5	-20.3	-767.3	-1348.3	166.4	-63.3	-30.5
33	439.00	-39.0	-56.1	2643	2691	-14.8	-20.8	-726.4	-1293.7	145.1	-48.4	-29.3
34	452.00	-37.1	-57.5	2643	2691	-14.0	-21.4	-687.3	-1237.6	124.1	-33.8	-28.0
35	465.00	-35.2	-59.0	2643	2691	-13.3	-21.9	-650.1	-1180.1	103.4	-19.5	-26.8
36	478.00	-33.3	-60.5	2643	2691	-12.6	-22.5	-615.1	-1121.1	83.0	-5.5	-25.5
37	491.00	-31.4	-61.9	2643	2691	-11.9	-23.0	-581.8	-1060.6	62.9	8.3	-24.2
38	504.00	-29.4	-63.4	2643	2691	-11.1	-23.6	-550.4	-998.7	43.1	21.7	-22.9
39	517.00	-27.5	-64.9	2643	2691	-10.4	-24.1	-521.0	-935.3	23.6	34.6	-21.6
40	530.00	-28.6	-65.0	2643	2691	-10.8	-24.2	-493.5	-870.4	4.4	47.1	-19.9
41	543.00	-30.0	-65.1	2643	2691	-11.3	-24.2	-464.9	-805.3	-14.5	59.4	-18.2
42	556.00	-31.4	-65.1	2643	2691	-11.9	-24.2	-434.9	-740.3	-33.1	71.4	-16.5
43	569.00	-32.7	-65.1	2643	2691	-12.4	-24.2	-403.5	-675.2	-51.2	83.1	-14.8
44	582.00	-34.1	-65.2	2643	2691	-12.9	-24.2	-370.8	-610.0	-68.8	94.4	-13.1
45	595.00	-35.5	-65.2	2643	2691	-13.4	-24.2	-336.7	-544.9	-85.8	105.3	-11.4
46	608.00	-36.8	-65.2	2643	2691	-13.9	-24.2	-301.4	-479.7	-102.4	115.8	-9.7
47	621.00	-37.8	-64.6	2643	2691	-14.3	-24.0	-264.6	-414.5	-118.3	125.8	-7.8
48	634.00	-39.9	-67.1	2847	2599	-14.0	-25.8	-226.7	-349.9	-133.6	135.4	-6.0
49	648.00	-39.0	-64.1	2847	2403	-13.7	-26.7	-186.7	-282.8	-148.1	144.4	-4.1
50	662.00	-37.9	-60.4	2847	2203	-13.3	-27.4	-147.8	-218.7	-161.9	153.0	-2.2
51	676.00	-36.7	-56.5	2847	2007	-12.9	-28.1	-109.8	-158.3	-175.0	161.2	-0.3
PENT	690.00	-73.0	-101.8	5693	3733	-12.8	-27.3	-73.0	-101.8	-188.1	169.1	1.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 20 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-93.5	-70.3	5449	5023	-17.2	-14.0	-3445.7	-1644.3	694.3	-1228.6	-48.1
MEZZ	22.00	-73.9	-21.6	2847	2898	-26.0	-7.4	-3352.1	-1574.0	658.9	-1153.8	-45.0
2	36.00	-67.2	-18.9	2643	2691	-25.4	-7.0	-3278.2	-1552.4	637.0	-1107.2	-45.0
3	49.00	-65.8	-17.7	2643	2691	-24.9	-6.6	-3211.0	-1533.6	617.0	-1065.2	-44.9
4	62.00	-64.4	-16.6	2643	2691	-24.4	-6.2	-3145.2	-1515.8	597.2	-1023.3	-44.8
5	75.00	-63.0	-15.5	2643	2691	-23.9	-5.8	-3080.8	-1499.2	577.6	-983.5	-44.6
6	88.00	-61.7	-14.4	2643	2691	-23.3	-5.3	-3017.7	-1483.7	558.2	-943.8	-44.5
7	101.00	-60.3	-13.3	2643	2691	-22.8	-4.9	-2956.1	-1469.4	539.0	-905.9	-44.3
8	114.00	-58.9	-12.1	2643	2691	-22.3	-4.5	-2895.8	-1456.1	520.0	-867.0	-44.1
9	127.00	-59.0	-12.1	2643	2691	-22.3	-4.5	-2836.9	-1444.0	501.1	-829.7	-43.9
10	140.00	-59.7	-12.6	2643	2691	-22.6	-4.7	-2777.9	-1431.9	482.4	-793.2	-43.6
11	153.00	-60.5	-13.1	2643	2691	-22.9	-4.9	-2718.2	-1419.3	463.9	-757.5	-43.3
12	166.00	-61.2	-13.6	2643	2691	-23.2	-5.0	-2657.8	-1406.2	445.5	-722.5	-42.9
13	179.00	-62.0	-14.1	2643	2691	-23.4	-5.2	-2596.5	-1392.6	427.3	-688.4	-42.5
14	192.00	-62.7	-14.6	2643	2691	-23.7	-5.4	-2534.6	-1378.5	409.2	-655.0	-42.0
15	205.00	-63.5	-15.0	2643	2691	-24.0	-5.6	-2471.9	-1364.0	391.5	-622.5	-41.5
16	218.00	-64.2	-15.5	2643	2691	-24.3	-5.8	-2408.4	-1348.9	373.9	-590.8	-40.9
17	231.00	-64.2	-17.0	2643	2691	-24.3	-6.3	-2344.2	-1333.4	356.4	-559.8	-40.3
18	244.00	-64.3	-18.4	2643	2691	-24.3	-6.9	-2279.7	-1316.4	339.2	-529.8	-39.6
19	257.00	-64.3	-19.9	2643	2691	-24.3	-7.4	-2215.7	-1297.9	322.5	-500.6	-38.9
20	270.00	-64.3	-21.4	2643	2691	-24.3	-7.9	-2151.4	-1278.1	305.5	-472.2	-38.2
21	283.00	-64.3	-22.8	2643	2691	-24.3	-8.5	-2087.1	-1256.7	289.0	-444.7	-37.4
22	296.00	-64.3	-24.3	2643	2691	-24.3	-9.0	-2022.8	-1233.9	272.9	-417.9	-36.6
23	309.00	-64.3	-25.7	2643	2691	-24.3	-9.6	-1958.5	-1209.6	256.9	-391.9	-35.8
24	322.00	-64.3	-27.2	2643	2691	-24.3	-10.1	-1894.2	-1183.9	241.4	-366.7	-34.9
25	335.00	-64.2	-28.6	2643	2691	-24.3	-10.6	-1829.9	-1156.7	226.3	-342.4	-34.0
26	348.00	-64.1	-30.1	2643	2691	-24.3	-11.2	-1765.7	-1128.1	211.3	-319.0	-33.1
27	361.00	-64.0	-31.5	2643	2691	-24.2	-11.7	-1701.6	-1098.0	196.7	-296.5	-32.1
28	374.00	-63.9	-33.0	2643	2691	-24.2	-12.3	-1637.5	-1066.5	182.4	-275.0	-31.0
29	387.00	-63.8	-34.4	2643	2691	-24.2	-12.8	-1573.6	-1033.5	168.4	-254.3	-30.0
30	400.00	-63.8	-35.9	2643	2691	-24.1	-13.3	-1509.7	-999.0	155.1	-234.3	-28.9
31	413.00	-63.7	-37.3	2643	2691	-24.1	-13.9	-1445.9	-963.0	142.3	-215.1	-27.8
32	426.00	-63.5	-38.5	2643	2691	-24.0	-14.3	-1382.2	-925.8	130.1	-196.7	-26.7
33	439.00	-63.2	-39.4	2643	2691	-23.9	-14.6	-1318.8	-887.3	119.1	-179.1	-25.5
34	452.00	-63.0	-40.3	2643	2691	-23.8	-15.0	-1255.6	-847.9	108.7	-162.4	-24.3
35	465.00	-62.7	-41.2	2643	2691	-23.7	-15.3	-1192.6	-807.7	98.8	-146.5	-23.1
36	478.00	-62.4	-42.1	2643	2691	-23.6	-15.6	-1129.9	-766.5	89.4	-131.4	-21.9
37	491.00	-62.2	-43.0	2643	2691	-23.5	-16.0	-1067.5	-724.4	80.5	-117.1	-20.6
38	504.00	-61.9	-43.9	2643	2691	-23.4	-16.3	-1005.4	-681.4	72.1	-103.6	-19.4
39	517.00	-61.6	-44.8	2643	2691	-23.3	-16.6	-943.5	-637.5	64.1	-91.0	-18.1
40	530.00	-62.4	-45.1	2643	2691	-23.6	-16.8	-881.9	-592.7	56.4	-79.1	-16.8
41	543.00	-63.3	-45.3	2643	2691	-23.9	-16.8	-819.5	-547.7	49.0	-68.0	-15.4
42	556.00	-64.1	-45.6	2643	2691	-24.3	-16.9	-756.2	-502.3	41.8	-57.6	-14.0
43	569.00	-65.0	-45.8	2643	2691	-24.6	-17.0	-692.1	-456.7	34.9	-48.0	-12.4
44	582.00	-65.9	-46.1	2643	2691	-24.9	-17.1	-627.1	-410.9	28.3	-39.1	-11.1
45	595.00	-66.7	-46.3	2643	2691	-25.2	-17.2	-561.2	-364.8	22.0	-30.9	-9.5
46	608.00	-66.6	-46.6	2643	2691	-25.2	-17.3	-494.5	-318.5	15.9	-23.4	-8.0
47	621.00	-67.6	-45.9	2643	2691	-25.6	-17.1	-426.9	-272.0	10.2	-16.7	-6.5
48	634.00	-69.6	-46.1	2847	2599	-24.4	-17.6	-359.2	-226.0	4.8	-10.6	-4.9
49	648.00	-66.2	-42.4	2847	2403	-23.3	-17.6	-289.6	-180.6	-0.3	-5.3	-3.7
50	662.00	-62.1	-38.8	2847	2203	-21.8	-17.6	-223.4	-137.6	-4.5	-1.0	-2.6
51	676.00	-57.9	-35.9	2847	2007	-20.3	-17.9	-161.4	-98.8	-7.9	2.3	-1.5
PENT	690.00	-103.5	-62.8	5693	3733	-18.2	-16.8	-103.5	-62.8	-12.9	5.1	-0.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 30 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-130.1	-67.4	5449	5023	-23.9	-13.4	-4490.1	-1175.0	490.5	-1637.6	-35.5
MEZZ	22.00	-84.9	-11.7	2847	2898	-29.8	-4.0	-4360.0	-1107.6	465.4	-1540.3	-33.1
2	36.00	-77.9	-10.2	2643	2691	-29.5	-3.8	-4275.1	-1095.9	449.9	-1479.8	-32.9
3	49.00	-76.9	-9.5	2643	2691	-29.1	-3.5	-4197.2	-1085.7	435.8	-1424.8	-32.6
4	62.00	-76.0	-8.9	2643	2691	-28.8	-3.3	-4120.3	-1076.2	421.7	-1370.7	-32.4
5	75.00	-75.1	-8.2	2643	2691	-28.4	-3.1	-4044.3	-1067.3	407.8	-1317.6	-32.1
6	88.00	-74.2	-7.6	2643	2691	-28.1	-2.8	-3969.2	-1059.1	393.9	-1265.5	-31.8
7	101.00	-73.2	-6.9	2643	2691	-27.7	-2.6	-3895.0	-1051.5	380.2	-1214.4	-31.4
8	114.00	-72.3	-6.2	2643	2691	-27.4	-2.3	-3821.8	-1044.6	366.6	-1164.3	-31.1
9	127.00	-72.7	-6.6	2643	2691	-27.5	-2.4	-3749.5	-1038.4	353.1	-1115.1	-31.1
10	140.00	-73.8	-7.4	2643	2691	-27.9	-2.7	-3676.8	-1031.8	339.6	-1066.8	-30.9
11	153.00	-74.8	-8.2	2643	2691	-28.3	-3.1	-3603.0	-1024.4	326.2	-1019.5	-30.7
12	166.00	-75.8	-9.0	2643	2691	-28.7	-3.4	-3528.2	-1016.2	312.9	-972.3	-29.5
13	179.00	-76.9	-9.8	2643	2691	-29.1	-3.7	-3452.5	-1007.4	299.8	-926.2	-29.2
14	192.00	-77.9	-10.7	2643	2691	-29.5	-4.0	-3375.7	-997.7	286.8	-880.3	-28.9
15	205.00	-79.0	-11.5	2643	2691	-29.9	-4.3	-3297.8	-986.7	273.9	-834.6	-28.6
16	218.00	-80.0	-12.3	2643	2691	-30.3	-4.6	-3218.8	-975.2	261.1	-789.3	-28.3
17	231.00	-80.3	-13.1	2643	2691	-30.4	-5.1	-3138.8	-962.8	248.5	-744.3	-28.0
18	244.00	-80.5	-15.1	2643	2691	-30.4	-5.6	-3058.5	-949.2	236.1	-716.8	-25.5
19	257.00	-80.7	-16.4	2643	2691	-30.5	-6.1	-2977.9	-934.8	223.9	-676.8	-25.2
20	270.00	-80.9	-17.8	2643	2691	-30.6	-6.6	-2897.2	-917.8	211.8	-638.6	-24.9
21	283.00	-81.1	-19.2	2643	2691	-30.7	-7.1	-2816.3	-900.0	200.0	-601.5	-24.6
22	296.00	-81.4	-20.6	2643	2691	-30.8	-7.6	-2735.1	-880.8	188.4	-565.4	-24.3
23	309.00	-81.6	-22.0	2643	2691	-30.9	-8.2	-2653.8	-860.0	177.1	-530.3	-24.0
24	322.00	-82.0	-23.1	2643	2691	-31.0	-8.6	-2572.2	-838.2	166.1	-496.3	-23.7
25	335.00	-82.9	-23.6	2643	2691	-31.4	-8.8	-2490.2	-815.1	155.3	-463.5	-23.4
26	348.00	-83.8	-24.1	2643	2691	-31.7	-9.0	-2407.8	-791.5	144.9	-431.9	-23.1
27	361.00	-84.7	-24.6	2643	2691	-32.1	-9.2	-2325.0	-767.4	134.8	-400.9	-22.8
28	374.00	-85.6	-25.1	2643	2691	-32.4	-9.3	-2241.8	-742.8	125.0	-371.2	-22.5
29	387.00	-86.5	-25.7	2643	2691	-32.7	-9.5	-2158.3	-717.8	115.5	-342.7	-22.2
30	400.00	-87.5	-26.2	2643	2691	-33.1	-9.7	-2074.5	-692.5	106.3	-315.5	-21.9
31	413.00	-88.4	-26.7	2643	2691	-33.4	-9.9	-1990.4	-666.9	97.5	-289.6	-21.6
32	426.00	-88.7	-27.3	2643	2691	-33.5	-10.1	-1906.0	-639.9	89.0	-265.0	-21.3
33	439.00	-88.6	-27.9	2643	2691	-33.5	-10.4	-1821.5	-611.9	80.9	-241.7	-21.0
34	452.00	-88.5	-28.6	2643	2691	-33.5	-10.6	-1737.0	-584.0	73.1	-219.7	-20.7
35	465.00	-88.4	-29.2	2643	2691	-33.4	-10.9	-1652.5	-555.4	65.7	-199.0	-20.4
36	478.00	-88.3	-29.9	2643	2691	-33.4	-11.1	-1568.1	-526.2	58.6	-179.5	-20.1
37	491.00	-88.2	-30.5	2643	2691	-33.4	-11.3	-1483.8	-496.6	52.0	-161.3	-19.8
38	504.00	-88.1	-31.2	2643	2691	-33.3	-11.6	-1399.6	-466.5	45.7	-144.3	-19.5
39	517.00	-88.0	-31.8	2643	2691	-33.3	-11.8	-1315.6	-436.1	39.7	-128.6	-19.2
40	530.00	-88.5	-31.8	2643	2691	-33.5	-11.8	-1227.1	-404.3	34.1	-114.1	-18.9
41	543.00	-89.0	-31.8	2643	2691	-33.7	-11.8	-1138.6	-371.3	28.9	-100.9	-18.6
42	556.00	-89.5	-31.7	2643	2691	-33.9	-11.8	-1050.1	-337.9	24.0	-89.0	-18.3
43	569.00	-90.0	-31.7	2643	2691	-34.1	-11.8	-961.7	-304.2	19.4	-78.3	-18.0
44	582.00	-90.6	-31.6	2643	2691	-34.3	-11.8	-873.2	-270.2	15.2	-68.8	-17.7
45	595.00	-91.1	-31.6	2643	2691	-34.5	-11.7	-784.7	-235.9	11.3	-60.5	-17.4
46	608.00	-91.6	-31.6	2643	2691	-34.7	-11.5	-696.3	-201.2	7.8	-53.4	-17.1
47	621.00	-90.8	-31.0	2643	2691	-34.4	-11.5	-605.3	-166.2	4.7	-47.5	-16.8
48	634.00	-91.8	-31.0	2847	2599	-32.2	-11.3	-513.5	-130.9	2.0	-42.8	-16.5
49	648.00	-85.5	-28.6	2847	2403	-30.1	-11.9	-421.7	-95.2	0.0	-39.3	-16.2
50	662.00	-79.6	-26.0	2847	2203	-28.0	-11.8	-328.1	-59.3	-1.4	-36.9	-15.9
51	676.00	-73.6	-23.8	2847	2007	-25.9	-11.9	-234.5	-23.4	-2.2	-35.7	-15.6
PENT	690.00	-132.4	-40.6	5693	3733	-23.3	-10.9	-132.4	-40.6	-2.6	-35.9	-15.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 40 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-147.5	-53.0	5449	5023	-27.1	-10.6	-4946.9	-586.2	233.7	-1799.5	-17.9
MEZZ	22.00	-89.7	-3.0	2847	2898	-31.5	-1.0	-4799.4	-533.2	221.4	-1692.3	-15.9
2	36.00	-82.7	-2.5	2643	2691	-31.3	-.9	-4709.6	-530.2	214.0	-1625.7	-15.9
3	49.00	-82.2	-2.2	2643	2691	-31.1	-.8	-4626.9	-527.8	207.1	-1565.0	-15.9
4	62.00	-81.6	-1.9	2643	2691	-30.9	-.7	-4544.7	-525.6	200.2	-1505.4	-15.8
5	75.00	-81.0	-1.6	2643	2691	-30.6	-.6	-4463.1	-523.7	193.4	-1446.8	-15.6
6	88.00	-80.4	-1.3	2643	2691	-30.4	-.5	-4382.1	-522.1	186.6	-1389.3	-15.5
7	101.00	-79.9	-1.0	2643	2691	-30.2	-.4	-4301.7	-520.8	179.9	-1332.9	-15.3
8	114.00	-79.3	-.7	2643	2691	-30.0	-.3	-4221.8	-519.9	173.1	-1277.5	-15.0
9	127.00	-80.1	-1.2	2643	2691	-30.3	-.4	-4142.5	-519.2	166.3	-1223.1	-14.7
10	140.00	-81.6	-2.1	2643	2691	-30.9	-.8	-4062.4	-518.0	159.6	-1169.8	-14.4
11	153.00	-83.1	-3.0	2643	2691	-31.4	-1.1	-3980.8	-515.9	152.9	-1117.5	-14.1
12	166.00	-84.6	-3.8	2643	2691	-32.0	-1.4	-3897.6	-512.9	146.2	-1066.3	-13.7
13	179.00	-86.1	-4.7	2643	2691	-32.6	-1.7	-3813.0	-509.1	139.5	-1016.2	-13.4
14	192.00	-87.6	-5.6	2643	2691	-33.1	-2.1	-3726.9	-504.4	133.0	-967.2	-13.0
15	205.00	-89.1	-6.5	2643	2691	-33.7	-2.4	-3639.4	-498.8	126.4	-919.3	-12.6
16	218.00	-90.6	-7.3	2643	2691	-34.3	-2.7	-3550.3	-492.4	120.0	-872.6	-12.2
17	231.00	-90.6	-8.4	2643	2691	-34.3	-3.1	-3459.7	-485.0	113.6	-827.0	-11.8
18	244.00	-90.6	-9.4	2643	2691	-34.3	-3.5	-3369.1	-476.7	107.4	-782.6	-11.4
19	257.00	-90.6	-10.4	2643	2691	-34.3	-3.9	-3278.6	-467.3	101.2	-739.4	-10.9
20	270.00	-90.6	-11.5	2643	2691	-34.3	-4.3	-3188.0	-456.8	95.2	-697.4	-10.5
21	283.00	-90.6	-12.5	2643	2691	-34.3	-4.7	-3097.4	-445.3	89.4	-656.5	-10.1
22	296.00	-90.5	-13.6	2643	2691	-34.3	-5.0	-3006.9	-432.8	83.7	-616.8	-9.7
23	309.00	-90.5	-14.6	2643	2691	-34.3	-5.4	-2916.3	-419.3	78.1	-578.3	-9.3
24	322.00	-90.8	-15.3	2643	2691	-34.4	-5.7	-2825.8	-404.7	72.8	-541.0	-8.9
25	335.00	-91.8	-15.3	2643	2691	-34.7	-5.7	-2735.0	-389.4	67.6	-504.9	-8.5
26	348.00	-92.7	-15.2	2643	2691	-35.1	-5.7	-2643.2	-374.1	62.7	-469.9	-8.1
27	361.00	-93.6	-15.2	2643	2691	-35.4	-5.7	-2550.5	-358.8	57.9	-436.2	-7.7
28	374.00	-94.6	-15.2	2643	2691	-35.8	-5.6	-2456.9	-343.6	53.3	-403.6	-7.4
29	387.00	-95.5	-15.1	2643	2691	-36.1	-5.6	-2362.3	-328.5	49.0	-372.3	-7.0
30	400.00	-96.5	-15.1	2643	2691	-36.5	-5.6	-2266.8	-313.3	44.8	-342.2	-6.7
31	413.00	-97.4	-15.1	2643	2691	-36.9	-5.6	-2170.3	-298.2	40.8	-313.3	-6.3
32	426.00	-97.8	-15.0	2643	2691	-37.0	-5.6	-2072.8	-283.1	37.0	-285.8	-6.0
33	439.00	-97.9	-14.8	2643	2691	-37.0	-5.5	-1975.0	-268.2	33.4	-259.5	-5.7
34	452.00	-97.9	-14.6	2643	2691	-37.1	-5.4	-1877.1	-253.4	30.1	-234.4	-5.3
35	465.00	-98.0	-14.4	2643	2691	-37.1	-5.4	-1779.2	-238.8	26.9	-210.7	-5.0
36	478.00	-98.0	-14.3	2643	2691	-37.1	-5.3	-1681.2	-224.3	23.8	-188.2	-4.7
37	491.00	-98.1	-14.1	2643	2691	-37.1	-5.2	-1583.2	-210.1	21.0	-166.9	-4.4
38	504.00	-98.1	-13.9	2643	2691	-37.1	-5.2	-1485.1	-196.0	18.4	-147.0	-4.2
39	517.00	-98.2	-13.8	2643	2691	-37.1	-5.1	-1386.9	-182.0	15.9	-128.3	-3.9
40	530.00	-98.7	-13.8	2643	2691	-37.3	-5.1	-1288.7	-168.2	13.6	-110.9	-3.7
41	543.00	-99.3	-13.9	2643	2691	-37.6	-5.2	-1190.0	-154.4	11.6	-94.8	-3.4
42	556.00	-99.9	-13.9	2643	2691	-37.8	-5.2	-1090.7	-140.5	9.6	-80.1	-3.1
43	569.00	-100.4	-14.0	2643	2691	-38.0	-5.2	-990.8	-126.6	7.9	-66.5	-2.9
44	582.00	-101.0	-14.1	2643	2691	-38.2	-5.2	-890.4	-112.6	6.3	-54.2	-2.6
45	595.00	-101.6	-14.1	2643	2691	-38.4	-5.3	-789.4	-98.5	5.0	-43.3	-2.3
46	608.00	-102.2	-14.2	2643	2691	-38.6	-5.3	-687.8	-84.3	3.8	-33.7	-2.0
47	621.00	-101.0	-14.0	2643	2691	-38.2	-5.2	-585.7	-70.1	2.8	-25.4	-1.7
48	634.00	-100.8	-13.5	2847	2599	-35.4	-5.2	-484.6	-56.1	2.0	-18.5	-1.4
49	648.00	-92.5	-11.7	2847	2403	-32.5	-4.9	-383.8	-42.6	1.3	-12.4	-1.1
50	662.00	-84.3	-10.5	2847	2203	-29.6	-4.8	-291.4	-30.9	.8	-7.7	-.7
51	676.00	-76.2	-8.6	2847	2007	-26.8	-4.3	-207.0	-20.5	.4	-4.2	-.4
PENT	690.00	-130.8	-11.8	5693	3733	-23.0	-3.2	-130.8	-11.8	.2	-1.8	-.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 50 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-153.4	-61.0	5449	5023	-28.2	-12.1	-5259.2	-199.3	6.0	-1918.2	7.7
MEZZ	22.00	-89.1	-9.6	2847	2898	-31.3	-3.3	-5105.8	-138.4	2.2	-1804.1	8.7
2	36.00	-83.1	-8.8	2643	2691	-31.4	-3.3	-5016.7	-128.7	.4	-1733.3	8.6
3	49.00	-83.4	-8.7	2643	2691	-31.6	-3.2	-4933.6	-119.9	-1.2	-1668.6	8.4
4	62.00	-83.8	-8.6	2643	2691	-31.7	-3.2	-4850.2	-111.1	-2.8	-1605.5	8.2
5	75.00	-84.1	-8.5	2643	2691	-31.8	-3.2	-4766.4	-102.5	-4.1	-1542.5	8.1
6	88.00	-84.5	-8.4	2643	2691	-32.0	-3.1	-4682.2	-94.0	-5.4	-1481.1	7.9
7	101.00	-84.8	-8.3	2643	2691	-32.1	-3.1	-4597.7	-85.5	-6.6	-1420.8	7.7
8	114.00	-85.2	-8.2	2643	2691	-32.2	-3.1	-4512.9	-77.2	-7.6	-1361.5	7.5
9	127.00	-86.2	-7.8	2643	2691	-32.6	-2.9	-4427.7	-68.9	-8.6	-1303.4	7.4
10	140.00	-87.5	-7.2	2643	2691	-33.1	-2.7	-4341.5	-61.1	-9.4	-1246.4	7.2
11	153.00	-88.7	-6.6	2643	2691	-33.6	-2.5	-4254.1	-53.9	-10.2	-1190.6	7.0
12	166.00	-90.0	-6.1	2643	2691	-34.1	-2.3	-4165.3	-47.3	-10.8	-1135.8	6.9
13	179.00	-91.3	-5.5	2643	2691	-34.5	-2.0	-4075.3	-41.2	-11.4	-1082.3	6.7
14	192.00	-92.6	-4.9	2643	2691	-35.0	-1.8	-3984.0	-35.7	-11.9	-1029.9	6.6
15	205.00	-93.9	-4.3	2643	2691	-35.5	-1.6	-3891.4	-30.9	-12.3	-978.7	6.4
16	218.00	-95.2	-3.7	2643	2691	-36.0	-1.4	-3797.5	-26.6	-12.7	-928.7	6.3
17	231.00	-95.7	-4.2	2643	2691	-36.2	-1.6	-3702.4	-22.8	-13.0	-880.0	6.2
18	244.00	-96.2	-4.7	2643	2691	-36.4	-1.8	-3606.7	-18.6	-13.3	-832.5	6.1
19	257.00	-96.7	-5.2	2643	2691	-36.6	-1.9	-3510.5	-13.9	-13.5	-786.2	6.0
20	270.00	-97.1	-5.7	2643	2691	-36.8	-2.1	-3413.9	-8.7	-13.7	-741.2	5.9
21	283.00	-97.6	-6.2	2643	2691	-36.9	-2.3	-3316.7	-3.0	-13.7	-697.4	5.7
22	296.00	-98.1	-6.8	2643	2691	-37.1	-2.5	-3219.1	3.3	-13.7	-655.0	5.6
23	309.00	-98.6	-7.3	2643	2691	-37.3	-2.7	-3120.9	10.1	-13.7	-613.8	5.5
24	322.00	-99.2	-7.3	2643	2691	-37.5	-2.7	-3022.3	17.3	-13.5	-573.8	5.4
25	335.00	-100.1	-6.2	2643	2691	-37.9	-2.3	-2923.1	24.6	-13.2	-535.1	5.2
26	348.00	-100.9	-5.2	2643	2691	-38.2	-1.9	-2823.0	30.9	-12.8	-497.8	5.1
27	361.00	-101.8	-4.1	2643	2691	-38.5	-1.5	-2722.1	36.1	-12.4	-461.8	5.0
28	374.00	-102.6	-3.0	2643	2691	-38.8	-1.1	-2620.3	40.2	-11.9	-427.1	4.8
29	387.00	-103.5	-2.0	2643	2691	-39.1	-.7	-2517.7	43.2	-11.4	-393.7	4.7
30	400.00	-104.3	-.9	2643	2691	-39.5	-.3	-2414.2	45.2	-10.8	-361.6	4.5
31	413.00	-105.1	.2	2643	2691	-39.8	.1	-2309.9	46.1	-10.2	-330.9	4.3
32	426.00	-105.5	.6	2643	2691	-39.9	.2	-2204.8	45.9	-9.6	-301.5	4.2
33	439.00	-105.5	.6	2643	2691	-39.9	.2	-2099.3	45.4	-9.0	-273.7	4.0
34	452.00	-105.5	.6	2643	2691	-39.9	.2	-1993.8	44.8	-8.4	-247.6	3.8
35	465.00	-105.6	.5	2643	2691	-39.9	.2	-1888.3	44.3	-7.9	-221.9	3.7
36	478.00	-105.6	.5	2643	2691	-39.9	.2	-1782.7	43.7	-7.3	-197.9	3.5
37	491.00	-105.6	.5	2643	2691	-40.0	.2	-1677.1	43.2	-6.7	-175.4	3.3
38	504.00	-105.6	.5	2643	2691	-40.0	.2	-1571.5	42.6	-6.2	-154.3	3.2
39	517.00	-105.7	.5	2643	2691	-40.0	.2	-1465.9	42.1	-5.6	-134.5	3.0
40	530.00	-106.0	.8	2643	2691	-40.1	.3	-1360.2	41.6	-5.1	-116.2	2.8
41	543.00	-106.3	1.0	2643	2691	-40.2	.4	-1254.3	40.9	-4.5	-99.3	2.6
42	556.00	-106.6	1.3	2643	2691	-40.3	.5	-1148.0	39.9	-4.0	-83.8	2.5
43	569.00	-106.9	1.6	2643	2691	-40.5	.6	-1041.3	38.6	-3.5	-69.7	2.3
44	582.00	-107.3	1.8	2643	2691	-40.6	.7	-934.4	37.0	-3.0	-56.9	2.1
45	595.00	-107.6	2.1	2643	2691	-40.7	.8	-827.1	35.2	-2.5	-45.5	1.9
46	608.00	-107.9	2.4	2643	2691	-40.8	.9	-719.5	33.1	-2.1	-35.6	1.7
47	621.00	-106.6	2.6	2643	2691	-40.3	1.0	-611.6	30.7	-1.7	-26.9	1.5
48	634.00	-106.7	3.5	2847	2599	-37.5	1.4	-505.0	28.1	-1.3	-19.3	1.3
49	648.00	-98.3	4.1	2847	2403	-34.5	1.7	-398.3	24.6	-.9	-12.9	1.1
50	662.00	-88.6	4.4	2847	2203	-31.1	2.0	-300.0	20.5	-.6	-7.9	.9
51	676.00	-78.6	4.9	2847	2007	-27.6	2.5	-211.4	16.1	-.3	-4.9	.7
PENT	690.00	-132.8	11.2	5693	3733	-23.3	3.0	-132.8	11.2	-.2	-1.9	.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 60 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-160.5	-69.7	5449	5023	-29.5	-13.9	-5125.2	224.4	-215.0	-1860.4	26.7
MEZZ	22.00	-81.3	-16.5	2847	2898	-28.6	-5.7	-4964.7	294.1	-209.2	-1749.4	27.4
2	36.00	-77.1	-14.8	2643	2691	-29.2	-5.5	-4883.4	310.7	-205.0	-1680.4	27.2
3	49.00	-78.7	-14.2	2643	2691	-29.8	-5.3	-4806.3	325.4	-200.9	-1617.5	27.0
4	62.00	-80.2	-13.6	2643	2691	-30.4	-5.1	-4727.6	339.6	-196.6	-1555.5	26.7
5	75.00	-81.8	-13.1	2643	2691	-31.0	-4.9	-4647.4	353.3	-192.1	-1494.6	26.4
6	88.00	-83.4	-12.5	2643	2691	-31.5	-4.7	-4565.6	366.3	-187.4	-1434.7	26.0
7	101.00	-84.9	-12.0	2643	2691	-32.1	-4.4	-4482.2	378.9	-182.5	-1375.9	25.6
8	114.00	-86.5	-11.4	2643	2691	-32.7	-4.2	-4397.2	390.8	-177.5	-1318.1	25.2
9	127.00	-87.6	-9.8	2643	2691	-33.1	-3.7	-4310.7	402.2	-172.4	-1261.5	24.7
10	140.00	-88.4	-7.8	2643	2691	-33.4	-2.9	-4223.1	412.1	-167.1	-1206.1	24.3
11	153.00	-89.2	-5.8	2643	2691	-33.8	-2.2	-4134.7	419.9	-161.7	-1151.7	23.8
12	166.00	-90.1	-3.8	2643	2691	-34.1	-1.4	-4045.5	425.7	-156.2	-1098.6	23.4
13	179.00	-90.9	-1.7	2643	2691	-34.4	-.6	-3955.4	429.4	-150.6	-1046.6	22.9
14	192.00	-91.7	.3	2643	2691	-34.7	.1	-3864.6	431.2	-145.0	-995.7	22.5
15	205.00	-92.6	2.3	2643	2691	-35.0	.9	-3772.8	430.9	-139.4	-946.1	22.1
16	218.00	-93.4	4.3	2643	2691	-35.3	1.6	-3680.3	428.6	-133.8	-897.6	21.7
17	231.00	-93.8	4.4	2643	2691	-35.5	1.6	-3586.9	424.3	-128.3	-850.4	21.3
18	244.00	-94.3	4.5	2643	2691	-35.7	1.7	-3493.1	419.9	-122.8	-804.4	20.9
19	257.00	-94.7	4.6	2643	2691	-35.8	1.7	-3398.8	415.3	-117.4	-759.6	20.5
20	270.00	-95.1	4.7	2643	2691	-36.0	1.7	-3304.2	410.7	-112.0	-716.0	20.0
21	283.00	-95.6	4.8	2643	2691	-36.1	1.8	-3209.0	406.1	-106.7	-673.7	19.6
22	296.00	-96.0	4.9	2643	2691	-36.3	1.8	-3113.5	401.3	-101.4	-632.6	19.1
23	309.00	-96.4	4.9	2643	2691	-36.5	1.8	-3017.5	396.4	-96.3	-592.7	18.6
24	322.00	-96.9	5.1	2643	2691	-36.7	1.9	-2921.1	391.5	-91.1	-554.1	18.1
25	335.00	-97.6	5.5	2643	2691	-36.9	2.1	-2824.2	386.4	-86.1	-516.8	17.5
26	348.00	-98.2	6.0	2643	2691	-37.2	2.2	-2726.6	380.8	-81.1	-480.7	17.0
27	361.00	-98.9	6.4	2643	2691	-37.4	2.4	-2628.3	374.8	-76.2	-445.9	16.5
28	374.00	-99.6	6.8	2643	2691	-37.7	2.5	-2529.4	368.4	-71.4	-412.4	16.0
29	387.00	-100.2	7.2	2643	2691	-37.9	2.7	-2429.9	361.6	-66.6	-380.1	15.5
30	400.00	-100.9	7.7	2643	2691	-38.2	2.8	-2329.7	354.4	-62.0	-349.2	15.0
31	413.00	-101.6	8.1	2643	2691	-38.4	3.0	-2228.8	346.7	-57.4	-319.6	14.5
32	426.00	-101.9	8.9	2643	2691	-38.6	3.3	-2127.2	338.6	-52.9	-291.3	14.0
33	439.00	-102.1	9.9	2643	2691	-38.6	3.7	-2025.3	329.8	-48.6	-264.3	13.6
34	452.00	-102.3	10.9	2643	2691	-38.7	4.1	-1923.2	319.8	-44.4	-238.6	13.1
35	465.00	-102.4	12.0	2643	2691	-38.8	4.4	-1820.9	308.9	-40.3	-214.3	12.5
36	478.00	-102.6	13.0	2643	2691	-38.8	4.8	-1718.5	297.0	-36.4	-191.3	12.0
37	491.00	-102.8	14.0	2643	2691	-38.9	5.2	-1615.9	284.0	-32.6	-169.6	11.4
38	504.00	-103.0	15.0	2643	2691	-39.0	5.6	-1513.1	270.0	-29.0	-149.3	10.8
39	517.00	-103.2	16.1	2643	2691	-39.0	6.0	-1410.1	255.0	-25.6	-130.3	10.2
40	530.00	-102.8	16.3	2643	2691	-38.9	6.0	-1306.9	238.9	-22.4	-112.6	9.6
41	543.00	-102.5	16.4	2643	2691	-38.8	6.1	-1204.1	222.6	-19.4	-96.3	8.9
42	556.00	-102.1	16.5	2643	2691	-38.6	6.1	-1101.6	206.3	-16.6	-81.3	8.3
43	569.00	-101.8	16.6	2643	2691	-38.5	6.2	-999.4	189.8	-14.0	-67.6	7.6
44	582.00	-101.4	16.7	2643	2691	-38.4	6.2	-897.7	173.2	-11.6	-55.3	6.8
45	595.00	-101.1	16.8	2643	2691	-38.2	6.3	-796.2	156.4	-9.5	-44.3	6.1
46	608.00	-100.7	17.0	2643	2691	-38.1	6.3	-695.1	139.6	-7.6	-34.6	5.4
47	621.00	-99.1	16.9	2643	2691	-37.5	6.3	-594.4	122.6	-5.9	-26.2	4.7
48	634.00	-100.0	18.2	2847	2599	-35.1	7.0	-495.2	105.7	-4.4	-19.1	3.9
49	648.00	-92.9	18.0	2847	2403	-32.6	7.5	-395.3	87.5	-3.0	-12.9	3.2
50	662.00	-86.1	17.9	2847	2203	-30.3	8.1	-302.4	69.5	-1.9	-8.0	2.5
51	676.00	-79.4	17.6	2847	2007	-27.9	8.8	-216.2	51.6	-1.1	-4.4	1.9
PENT	690.00	-136.8	34.0	5693	3733	-24.0	9.1	-136.8	34.0	-.5	-1.9	.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 70 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-160.6	-38.7	5449	5023	-29.5	-7.7	-4827.0	1017.2	-555.1	-1723.4	32.9
MEZZ	22.00	-83.5	-3.9	2847	2898	-29.3	-1.3	-4666.4	1055.9	-532.3	-1619.0	33.8
2	36.00	-78.0	-4.4	2643	2691	-29.5	-1.6	-4582.9	1059.8	-517.5	-1554.2	34.1
3	49.00	-78.5	-5.1	2643	2691	-29.7	-1.9	-4504.9	1064.2	-503.7	-1495.2	34.3
4	62.00	-79.0	-5.8	2643	2691	-29.9	-2.1	-4426.4	1069.2	-489.8	-1437.1	34.4
5	75.00	-79.4	-6.5	2643	2691	-30.0	-2.4	-4347.5	1075.0	-475.9	-1380.1	34.4
6	88.00	-79.9	-7.2	2643	2691	-30.2	-2.7	-4268.0	1081.5	-461.9	-1324.1	34.3
7	101.00	-80.4	-7.9	2643	2691	-30.4	-2.9	-4188.2	1088.6	-447.8	-1269.1	34.1
8	114.00	-80.8	-8.6	2643	2691	-30.6	-3.2	-4107.8	1096.5	-433.6	-1215.2	33.9
9	127.00	-82.1	-6.9	2643	2691	-31.1	-2.6	-4026.9	1105.0	-419.2	-1162.3	33.5
10	140.00	-83.8	-4.2	2643	2691	-31.7	-1.5	-3944.8	1112.0	-404.8	-1110.5	33.1
11	153.00	-85.5	-1.4	2643	2691	-32.3	-.5	-3861.0	1116.1	-390.4	-1059.8	32.7
12	166.00	-87.2	1.4	2643	2691	-33.0	.5	-3775.5	1117.5	-375.8	-1010.1	32.3
13	179.00	-88.9	4.1	2643	2691	-33.6	1.5	-3688.3	1116.1	-361.3	-961.6	31.8
14	192.00	-90.6	6.9	2643	2691	-34.3	2.6	-3599.4	1112.0	-346.8	-914.2	31.2
15	205.00	-92.2	9.6	2643	2691	-34.9	3.6	-3508.9	1105.1	-332.4	-868.0	30.7
16	218.00	-93.9	12.4	2643	2691	-35.5	4.6	-3416.6	1095.5	-318.1	-823.0	30.1
17	231.00	-93.6	13.4	2643	2691	-35.4	5.0	-3322.7	1083.1	-304.0	-779.2	29.5
18	244.00	-93.3	14.4	2643	2691	-35.3	5.4	-3229.1	1069.7	-290.0	-736.6	28.9
19	257.00	-92.9	15.4	2643	2691	-35.1	5.7	-3135.9	1055.2	-276.1	-695.3	28.2
20	270.00	-92.6	16.4	2643	2691	-35.0	6.1	-3043.0	1039.8	-262.5	-655.1	27.6
21	283.00	-92.2	17.4	2643	2691	-34.9	6.5	-2950.4	1023.4	-249.1	-616.1	27.0
22	296.00	-91.9	18.4	2643	2691	-34.7	6.8	-2858.2	1006.0	-235.9	-578.4	26.4
23	309.00	-91.5	19.4	2643	2691	-34.6	7.2	-2766.3	987.6	-223.0	-541.8	25.7
24	322.00	-91.4	20.3	2643	2691	-34.6	7.6	-2674.8	968.3	-210.3	-506.5	25.1
25	335.00	-91.9	21.2	2643	2691	-34.8	7.9	-2583.4	947.9	-197.8	-472.3	24.5
26	348.00	-92.5	22.0	2643	2691	-35.0	8.2	-2491.5	926.8	-185.6	-439.3	23.8
27	361.00	-93.0	22.8	2643	2691	-35.2	8.5	-2399.0	904.8	-173.7	-407.5	23.2
28	374.00	-93.5	23.7	2643	2691	-35.4	8.8	-2306.0	882.0	-162.1	-376.9	22.5
29	387.00	-94.1	24.5	2643	2691	-35.6	9.1	-2212.5	858.3	-150.8	-347.5	21.8
30	400.00	-94.6	25.3	2643	2691	-35.8	9.4	-2118.4	833.8	-139.8	-319.4	21.1
31	413.00	-95.1	26.1	2643	2691	-36.0	9.7	-2023.8	808.5	-129.1	-292.5	20.3
32	426.00	-94.9	27.1	2643	2691	-35.9	10.1	-1928.7	782.4	-118.8	-266.8	19.6
33	439.00	-94.1	28.2	2643	2691	-35.6	10.5	-1833.8	755.2	-108.8	-242.3	18.8
34	452.00	-93.4	29.2	2643	2691	-35.3	10.9	-1739.7	727.1	-99.1	-219.1	18.0
35	465.00	-92.6	30.3	2643	2691	-35.0	11.3	-1646.3	697.8	-89.9	-197.1	17.2
36	478.00	-91.9	31.3	2643	2691	-34.8	11.6	-1553.7	667.5	-81.0	-176.3	16.4
37	491.00	-91.1	32.4	2643	2691	-34.5	12.0	-1461.8	636.2	-72.5	-156.7	15.6
38	504.00	-90.4	33.5	2643	2691	-34.2	12.4	-1370.7	603.8	-64.5	-138.3	14.8
39	517.00	-89.6	34.5	2643	2691	-33.9	12.8	-1280.3	570.3	-56.8	-121.0	14.0
40	530.00	-89.6	35.3	2643	2691	-33.9	13.1	-1190.7	535.8	-49.6	-105.0	13.2
41	543.00	-89.8	36.1	2643	2691	-34.0	13.4	-1101.1	500.3	-42.9	-90.1	12.3
42	556.00	-89.9	36.9	2643	2691	-34.0	13.7	-1011.3	464.3	-36.6	-76.4	11.4
43	569.00	-90.0	37.7	2643	2691	-34.0	14.0	-921.5	427.4	-30.8	-63.8	10.5
44	582.00	-90.1	38.5	2643	2691	-34.1	14.3	-831.5	389.7	-25.5	-52.4	9.5
45	595.00	-90.2	39.3	2643	2691	-34.1	14.6	-741.4	351.2	-20.7	-42.2	8.5
46	608.00	-90.3	40.1	2643	2691	-34.2	14.9	-651.2	311.9	-16.4	-33.1	7.5
47	621.00	-89.5	40.5	2643	2691	-33.9	15.0	-560.8	271.8	-12.6	-25.2	6.4
48	634.00	-91.7	42.3	2847	2599	-32.2	16.3	-471.3	231.3	-9.3	-18.5	5.3
49	648.00	-86.9	40.9	2847	2403	-30.5	17.0	-379.6	189.0	-6.4	-12.6	4.2
50	662.00	-81.2	39.6	2847	2203	-28.5	18.0	-292.7	148.2	-4.0	-7.9	3.1
51	676.00	-75.3	37.9	2847	2007	-26.4	18.9	-211.5	108.6	-2.2	-4.3	2.2
PENT	690.00	-136.2	70.7	5693	3733	-23.9	18.9	-136.2	70.7	-1.0	-1.9	1.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 80 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-129.8	-13.0	5449	5023	-23.8	-2.6	-3771.7	2213.4	-1029.4	-1352.0	24.4
MEZZ	22.00	-62.2	11.2	2847	2898	-21.8	3.9	-3641.8	2226.4	-980.6	-1270.4	26.1
2	36.00	-58.1	9.6	2643	2691	-22.0	3.6	-3579.6	2215.2	-949.5	-1219.9	26.9
3	49.00	-58.5	8.8	2643	2691	-22.1	3.3	-3521.5	2205.7	-920.7	-1173.7	27.6
4	62.00	-58.8	8.0	2643	2691	-22.2	3.0	-3463.1	2196.9	-892.1	-1128.3	28.1
5	75.00	-59.2	7.2	2643	2691	-22.4	2.7	-3404.3	2188.9	-863.6	-1083.7	28.5
6	88.00	-59.5	6.5	2643	2691	-22.5	2.4	-3345.1	2181.6	-835.2	-1039.8	28.8
7	101.00	-59.9	5.7	2643	2691	-22.6	2.1	-3285.6	2175.2	-806.9	-996.7	28.9
8	114.00	-60.2	4.9	2643	2691	-22.8	1.8	-3225.7	2169.5	-778.6	-954.4	28.8
9	127.00	-61.8	6.9	2643	2691	-23.4	2.6	-3165.5	2164.6	-750.5	-912.8	28.7
10	140.00	-64.1	10.3	2643	2691	-24.2	3.8	-3103.7	2157.7	-722.4	-872.1	28.4
11	153.00	-66.4	13.7	2643	2691	-25.1	5.1	-3039.6	2147.3	-694.4	-832.2	28.2
12	166.00	-68.6	17.1	2643	2691	-26.0	6.3	-2973.2	2133.6	-666.6	-793.1	27.9
13	179.00	-70.9	20.4	2643	2691	-26.8	7.6	-2904.6	2116.6	-638.9	-754.9	27.7
14	192.00	-73.1	23.8	2643	2691	-27.7	8.8	-2833.8	2096.1	-611.6	-717.6	27.4
15	205.00	-75.4	27.2	2643	2691	-28.5	10.1	-2760.7	2072.3	-584.5	-681.2	27.0
16	218.00	-77.6	30.6	2643	2691	-29.4	11.4	-2685.3	2045.2	-557.7	-645.8	26.7
17	231.00	-77.0	32.3	2643	2691	-29.1	12.0	-2607.6	2014.6	-531.3	-611.4	26.3
18	244.00	-76.4	34.0	2643	2691	-28.9	12.6	-2530.6	1982.3	-505.3	-578.0	26.0
19	257.00	-75.7	35.7	2643	2691	-28.7	13.3	-2454.2	1948.4	-479.8	-545.6	25.5
20	270.00	-75.1	37.4	2643	2691	-28.4	13.9	-2378.5	1912.7	-454.7	-514.2	25.1
21	283.00	-74.4	39.1	2643	2691	-28.2	14.5	-2303.4	1875.3	-430.1	-483.8	24.6
22	296.00	-73.8	40.8	2643	2691	-27.9	15.2	-2229.0	1836.2	-405.9	-454.3	24.1
23	309.00	-73.2	42.5	2643	2691	-27.7	15.8	-2155.2	1795.4	-382.3	-425.8	23.5
24	322.00	-72.8	44.1	2643	2691	-27.5	16.4	-2082.0	1753.0	-359.3	-398.3	23.0
25	335.00	-73.0	45.3	2643	2691	-27.6	16.8	-2009.2	1708.9	-336.8	-371.7	22.4
26	348.00	-73.2	46.6	2643	2691	-27.7	17.3	-1936.3	1663.6	-314.8	-346.0	21.8
27	361.00	-73.4	47.9	2643	2691	-27.8	17.8	-1863.1	1616.9	-293.5	-321.3	21.1
28	374.00	-73.6	49.2	2643	2691	-27.8	18.3	-1789.7	1569.1	-272.8	-297.6	20.5
29	387.00	-73.8	50.5	2643	2691	-27.9	18.8	-1716.1	1519.9	-252.7	-274.8	19.9
30	400.00	-74.0	51.7	2643	2691	-28.0	19.2	-1642.3	1469.4	-233.3	-253.0	19.2
31	413.00	-74.2	53.0	2643	2691	-28.1	19.7	-1568.3	1417.7	-214.5	-232.1	18.6
32	426.00	-73.4	54.5	2643	2691	-27.8	20.3	-1494.2	1364.7	-196.5	-212.2	17.9
33	439.00	-72.0	56.2	2643	2691	-27.2	20.9	-1420.8	1310.1	-179.1	-193.2	17.3
34	452.00	-70.5	57.9	2643	2691	-26.7	21.5	-1348.8	1253.9	-162.4	-175.2	16.8
35	465.00	-69.1	59.5	2643	2691	-26.1	22.1	-1278.3	1196.1	-146.5	-158.2	15.8
36	478.00	-67.6	61.2	2643	2691	-25.6	22.7	-1209.2	1136.6	-131.3	-142.0	15.1
37	491.00	-66.2	62.8	2643	2691	-25.0	23.4	-1141.6	1075.4	-116.9	-126.7	14.3
38	504.00	-64.7	64.5	2643	2691	-24.5	24.0	-1075.4	1012.6	-103.4	-112.3	13.5
39	517.00	-63.3	66.2	2643	2691	-23.9	24.6	-1010.7	948.1	-90.6	-98.7	12.6
40	530.00	-64.5	66.1	2643	2691	-24.4	24.6	-947.4	881.9	-78.7	-86.0	11.7
41	543.00	-66.0	66.0	2643	2691	-25.0	24.5	-882.9	815.7	-67.7	-74.1	10.9
42	556.00	-67.4	65.8	2643	2691	-25.5	24.4	-816.9	749.8	-57.5	-63.1	10.0
43	569.00	-68.9	65.6	2643	2691	-26.1	24.4	-749.5	684.0	-48.2	-52.9	9.1
44	582.00	-70.4	65.4	2643	2691	-26.6	24.3	-680.6	618.4	-39.7	-43.6	8.3
45	595.00	-71.8	65.2	2643	2691	-27.2	24.2	-610.2	553.1	-32.1	-35.2	7.4
46	608.00	-73.3	65.0	2643	2691	-27.7	24.2	-538.4	487.9	-25.3	-27.7	6.5
47	621.00	-73.5	64.4	2643	2691	-27.8	23.9	-465.1	422.8	-19.4	-21.2	5.6
48	634.00	-74.5	67.1	2847	2599	-26.2	25.8	-391.6	358.5	-14.3	-15.6	4.8
49	648.00	-69.7	64.0	2847	2403	-24.5	26.6	-317.1	291.4	-9.8	-10.7	3.9
50	662.00	-66.5	61.5	2847	2203	-23.4	27.9	-247.5	227.3	-6.2	-6.7	3.1
51	676.00	-63.7	58.6	2847	2007	-22.4	29.2	-180.9	165.9	-3.4	-3.7	2.3
PENT	690.00	-117.2	107.3	5693	3733	-20.6	28.7	-117.2	107.3	-1.5	-1.6	1.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-100.4	26.1	5449	5023	-18.4	5.2	-2397.5	3190.4	-1394.9	-787.7	7.7
MEZZ	22.00	-51.5	24.8	2847	2898	-18.1	8.5	-2297.0	3164.3	-1325.0	-736.0	8.3
2	36.00	-47.5	23.3	2643	2691	-18.0	8.7	-2245.5	3139.5	-1280.8	-704.2	9.3
3	49.00	-47.1	23.6	2643	2691	-17.8	8.8	-2198.1	3116.2	-1240.2	-675.3	10.1
4	62.00	-46.7	23.8	2643	2691	-17.7	8.9	-2151.0	3092.7	-1199.8	-647.1	10.8
5	75.00	-46.3	24.1	2643	2691	-17.5	9.0	-2104.3	3068.8	-1159.8	-619.4	11.3
6	88.00	-45.9	24.4	2643	2691	-17.4	9.1	-2058.1	3044.7	-1120.0	-592.4	11.7
7	101.00	-45.5	24.7	2643	2691	-17.2	9.2	-2012.2	3020.3	-1080.6	-565.9	11.9
8	114.00	-45.1	25.0	2643	2691	-17.1	9.3	-1966.7	2995.6	-1041.5	-540.0	12.1
9	127.00	-45.7	26.8	2643	2691	-17.3	10.0	-1921.6	2970.7	-1002.7	-514.8	12.0
10	140.00	-46.8	29.4	2643	2691	-17.7	10.9	-1875.9	2943.9	-964.3	-490.1	11.9
11	153.00	-47.8	31.9	2643	2691	-18.1	11.9	-1829.1	2914.5	-926.2	-466.0	11.9
12	166.00	-48.9	34.5	2643	2691	-18.5	12.8	-1781.3	2882.5	-888.5	-442.5	11.8
13	179.00	-50.0	37.1	2643	2691	-18.9	13.8	-1732.4	2848.0	-851.3	-419.7	11.7
14	192.00	-51.0	39.7	2643	2691	-19.3	14.7	-1682.5	2811.0	-814.5	-397.5	11.6
15	205.00	-52.1	42.2	2643	2691	-19.7	15.7	-1631.5	2771.3	-778.2	-376.0	11.6
16	218.00	-53.2	44.8	2643	2691	-20.1	16.6	-1579.4	2729.1	-742.5	-355.1	11.5
17	231.00	-52.8	46.6	2643	2691	-20.0	17.3	-1526.2	2684.3	-707.3	-334.9	11.4
18	244.00	-52.5	48.4	2643	2691	-19.9	18.0	-1473.4	2637.7	-672.7	-315.4	11.3
19	257.00	-52.2	50.2	2643	2691	-19.7	18.7	-1420.9	2589.2	-638.7	-296.6	11.2
20	270.00	-51.8	52.0	2643	2691	-19.6	19.3	-1368.7	2539.0	-605.4	-278.5	11.0
21	283.00	-51.5	53.8	2643	2691	-19.5	20.0	-1316.9	2487.0	-572.7	-261.0	10.8
22	296.00	-51.2	55.7	2643	2691	-19.4	20.7	-1265.4	2433.1	-540.7	-244.2	10.5
23	309.00	-50.8	57.5	2643	2691	-19.2	21.4	-1214.3	2377.5	-509.5	-228.1	10.2
24	322.00	-50.2	59.2	2643	2691	-19.0	22.0	-1163.4	2320.0	-478.9	-212.6	9.9
25	335.00	-49.0	60.8	2643	2691	-18.5	22.6	-1113.2	2260.8	-449.1	-197.8	9.6
26	348.00	-47.8	62.4	2643	2691	-18.1	23.2	-1064.2	2200.0	-420.1	-183.7	9.2
27	361.00	-46.5	64.0	2643	2691	-17.6	23.8	-1016.4	2137.6	-392.0	-170.2	8.9
28	374.00	-45.3	65.7	2643	2691	-17.1	24.4	-969.9	2073.5	-364.6	-157.3	8.6
29	387.00	-44.1	67.3	2643	2691	-16.7	25.0	-924.6	2007.9	-338.1	-144.9	8.3
30	400.00	-42.8	68.9	2643	2691	-16.2	25.6	-880.5	1940.6	-312.4	-133.2	8.0
31	413.00	-41.6	70.5	2643	2691	-15.7	26.2	-837.7	1871.7	-287.6	-122.0	7.7
32	426.00	-40.6	72.0	2643	2691	-15.4	26.7	-796.1	1801.2	-263.7	-111.4	7.5
33	439.00	-39.7	73.4	2643	2691	-15.0	27.3	-755.4	1729.2	-240.8	-101.3	7.2
34	452.00	-38.9	74.7	2643	2691	-14.7	27.8	-715.7	1655.9	-218.8	-91.8	6.9
35	465.00	-38.0	76.1	2643	2691	-14.4	28.3	-676.8	1581.1	-197.7	-82.7	6.6
36	478.00	-37.1	77.5	2643	2691	-14.1	28.8	-638.8	1505.0	-177.7	-74.2	6.3
37	491.00	-36.3	78.9	2643	2691	-13.7	29.3	-601.7	1427.5	-158.6	-66.1	6.0
38	504.00	-35.4	80.3	2643	2691	-13.4	29.8	-565.4	1348.6	-140.6	-58.5	5.7
39	517.00	-34.6	81.7	2643	2691	-13.1	30.4	-530.0	1268.3	-123.6	-51.4	5.5
40	530.00	-34.9	82.8	2643	2691	-13.2	30.8	-495.4	1186.6	-107.6	-44.7	5.3
41	543.00	-35.3	83.9	2643	2691	-13.4	31.2	-460.5	1103.9	-92.7	-38.5	5.0
42	556.00	-35.8	85.0	2643	2691	-13.5	31.6	-425.2	1020.0	-78.9	-32.8	4.8
43	569.00	-36.2	86.1	2643	2691	-13.7	32.0	-389.4	935.0	-66.2	-27.5	4.6
44	582.00	-36.7	87.2	2643	2691	-13.9	32.4	-353.2	848.9	-54.6	-22.6	4.3
45	595.00	-37.1	88.3	2643	2691	-14.0	32.8	-316.6	761.7	-44.1	-18.3	4.1
46	608.00	-37.5	89.4	2643	2691	-14.2	33.2	-279.5	673.5	-34.8	-14.4	3.9
47	621.00	-37.5	89.5	2643	2691	-14.2	33.3	-241.9	584.1	-26.6	-11.0	3.8
48	634.00	-38.6	94.0	2847	2599	-13.6	36.2	-204.4	494.6	-19.6	-8.1	3.7
49	648.00	-36.7	89.6	2847	2403	-12.9	37.3	-165.8	400.6	-13.4	-5.5	3.5
50	662.00	-35.4	85.2	2847	2203	-12.4	38.7	-129.0	310.9	-8.4	-3.5	3.4
51	676.00	-34.1	80.7	2847	2007	-12.0	40.2	-93.7	225.7	-4.6	-1.9	3.3
PENT	690.00	-59.6	145.0	5693	3733	-10.5	38.8	-59.6	145.0	-2.0	-.8	1.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-64.7	46.0	5449	5023	-11.9	9.2	-1807.3	3184.9	-1314.0	-716.0	-28.6
MEZZ	22.00	-33.0	33.0	2847	2898	-11.6	11.4	-1742.6	3138.8	-1244.4	-676.9	-29.2
2	36.00	-29.0	31.6	2643	2691	-11.0	11.7	-1709.6	3105.9	-1200.7	-652.8	-28.4
3	49.00	-27.5	32.5	2643	2691	-10.4	12.1	-1680.5	3074.3	-1160.5	-630.7	-27.7
4	62.00	-26.0	33.4	2643	2691	-9.8	12.4	-1653.0	3041.8	-1120.8	-609.1	-27.2
5	75.00	-24.4	34.3	2643	2691	-9.2	12.7	-1627.1	3008.5	-1081.5	-587.7	-26.7
6	88.00	-22.9	35.2	2643	2691	-8.7	13.1	-1602.6	2974.2	-1042.6	-566.8	-26.3
7	101.00	-21.3	36.1	2643	2691	-8.1	13.4	-1579.8	2939.0	-1004.1	-546.1	-26.1
8	114.00	-19.8	37.0	2643	2691	-7.5	13.8	-1558.4	2902.8	-966.2	-525.7	-25.9
9	127.00	-19.9	38.5	2643	2691	-7.5	14.3	-1538.6	2865.8	-928.7	-505.5	-25.8
10	140.00	-20.8	40.3	2643	2691	-7.9	15.0	-1518.8	2827.3	-891.7	-485.7	-25.8
11	153.00	-21.6	42.1	2643	2691	-8.2	15.7	-1498.0	2786.9	-855.2	-466.1	-25.7
12	166.00	-22.5	43.9	2643	2691	-8.5	16.3	-1476.4	2744.8	-819.2	-446.7	-25.5
13	179.00	-23.3	45.7	2643	2691	-8.8	17.0	-1453.9	2700.9	-783.8	-427.7	-25.3
14	192.00	-24.2	47.5	2643	2691	-9.2	17.7	-1430.5	2655.2	-749.0	-408.9	-25.1
15	205.00	-25.1	49.3	2643	2691	-9.5	18.3	-1406.3	2607.7	-714.8	-390.5	-24.9
16	218.00	-25.9	51.1	2643	2691	-9.8	19.0	-1381.3	2558.4	-681.2	-372.4	-24.6
17	231.00	-26.8	51.8	2643	2691	-10.1	19.2	-1355.3	2507.3	-648.3	-354.6	-24.2
18	244.00	-27.7	52.5	2643	2691	-10.5	19.5	-1328.5	2455.5	-616.0	-337.1	-23.9
19	257.00	-28.6	53.2	2643	2691	-10.8	19.8	-1300.8	2403.0	-584.5	-320.0	-23.5
20	270.00	-29.4	53.9	2643	2691	-11.1	20.0	-1272.2	2349.8	-553.6	-303.3	-23.1
21	283.00	-30.3	54.6	2643	2691	-11.5	20.3	-1242.8	2295.9	-523.4	-287.0	-22.7
22	296.00	-31.2	55.3	2643	2691	-11.8	20.5	-1212.5	2241.4	-493.9	-271.0	-22.3
23	309.00	-32.1	56.0	2643	2691	-12.1	20.8	-1181.3	2186.1	-465.1	-255.5	-21.9
24	322.00	-32.7	56.9	2643	2691	-12.4	21.2	-1149.2	2130.1	-437.0	-240.3	-21.4
25	335.00	-32.8	58.5	2643	2691	-12.4	21.7	-1116.5	2073.2	-409.7	-225.6	-21.0
26	348.00	-32.9	60.0	2643	2691	-12.4	22.3	-1083.7	2014.7	-383.1	-211.3	-20.5
27	361.00	-32.9	61.5	2643	2691	-12.5	22.9	-1050.8	1954.7	-357.3	-197.4	-19.9
28	374.00	-33.0	63.1	2643	2691	-12.5	23.4	-1017.9	1893.2	-332.3	-184.0	-19.3
29	387.00	-33.1	64.6	2643	2691	-12.5	24.0	-984.9	1830.1	-308.1	-170.9	-18.7
30	400.00	-33.1	66.2	2643	2691	-12.5	24.6	-951.9	1765.5	-284.8	-158.4	-18.0
31	413.00	-33.2	67.7	2643	2691	-12.6	25.2	-918.7	1699.3	-262.2	-146.2	-17.3
32	426.00	-33.5	68.5	2643	2691	-12.7	25.5	-885.5	1631.6	-240.6	-134.5	-16.5
33	439.00	-33.9	68.8	2643	2691	-12.8	25.6	-852.0	1563.1	-219.8	-123.2	-15.7
34	452.00	-34.3	69.1	2643	2691	-13.0	25.7	-818.1	1494.3	-199.9	-112.3	-15.0
35	465.00	-34.7	69.5	2643	2691	-13.1	25.8	-783.8	1425.1	-181.0	-101.9	-14.2
36	478.00	-35.1	69.8	2643	2691	-13.3	25.9	-749.1	1355.7	-162.9	-91.9	-13.4
37	491.00	-35.5	70.1	2643	2691	-13.4	26.1	-714.0	1285.9	-145.7	-82.4	-12.7
38	504.00	-35.9	70.4	2643	2691	-13.6	26.2	-678.5	1215.8	-129.5	-73.4	-11.9
39	517.00	-36.3	70.7	2643	2691	-13.7	26.3	-642.6	1145.4	-114.1	-64.8	-11.1
40	530.00	-37.6	71.9	2643	2691	-14.2	26.7	-606.2	1074.6	-99.7	-56.7	-10.4
41	543.00	-38.9	73.1	2643	2691	-14.7	27.2	-568.7	1002.8	-86.2	-49.0	-9.6
42	556.00	-40.2	74.3	2643	2691	-15.2	27.6	-529.8	929.7	-73.6	-41.9	-8.9
43	569.00	-41.5	75.5	2643	2691	-15.7	28.1	-489.5	855.4	-62.0	-35.3	-8.1
44	582.00	-42.9	76.7	2643	2691	-16.2	28.5	-448.0	779.8	-51.4	-29.2	-7.4
45	595.00	-44.2	77.9	2643	2691	-16.7	29.0	-405.1	703.1	-41.8	-23.6	-6.8
46	608.00	-45.5	79.2	2643	2691	-17.2	29.4	-360.9	625.2	-33.1	-18.6	-5.8
47	621.00	-46.6	79.7	2643	2691	-17.6	29.6	-315.4	546.0	-25.5	-14.3	-5.0
48	634.00	-50.7	83.7	2847	2599	-17.8	32.2	-268.8	466.3	-18.9	-10.5	-4.3
49	648.00	-51.2	80.8	2847	2403	-18.0	33.6	-218.1	382.6	-13.0	-7.0	-3.4
50	662.00	-48.6	80.9	2847	2203	-17.1	36.7	-166.8	301.8	-8.2	-4.4	-2.6
51	676.00	-45.4	78.5	2847	2007	-16.0	39.1	-118.3	220.9	-4.5	-2.4	-1.7
PENT	690.00	-72.8	142.3	5693	3733	-12.8	38.1	-72.8	142.3	-2.0	-1.0	-1.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 110 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-41.3	79.8	5449	5023	-7.6	15.9	-1129.9	3817.5	-1471.9	-597.6	-49.2
MEZZ	22.00	-5.5	46.4	2847	2898	-1.9	16.0	-1088.7	3737.7	-1388.8	-573.2	-51.5
2	36.00	-3.4	45.0	2643	2691	-1.3	16.7	-1083.1	3691.2	-1336.8	-558.0	-51.0
3	49.00	-1.8	46.9	2643	2691	-.7	17.4	-1079.7	3646.2	-1289.1	-544.0	-50.6
4	62.00	-.2	48.7	2643	2691	-.1	18.1	-1077.9	3599.3	-1242.0	-530.0	-50.2
5	75.00	1.5	50.6	2643	2691	.6	18.8	-1077.7	3550.6	-1195.5	-515.9	-49.8
6	88.00	3.1	52.5	2643	2691	1.2	19.5	-1079.2	3500.0	-1149.7	-501.9	-49.4
7	101.00	4.7	54.3	2643	2691	1.8	20.2	-1082.3	3447.5	-1104.6	-487.9	-49.1
8	114.00	6.4	56.2	2643	2691	2.4	20.9	-1087.0	3393.2	-1060.1	-473.8	-48.8
9	127.00	6.2	57.7	2643	2691	2.3	21.4	-1093.4	3337.0	-1016.3	-459.6	-48.4
10	140.00	5.1	59.1	2643	2691	1.9	22.0	-1099.5	3279.3	-973.3	-445.3	-48.1
11	153.00	4.0	60.5	2643	2691	1.5	22.5	-1104.6	3220.2	-931.1	-431.0	-47.7
12	166.00	2.9	61.9	2643	2691	1.1	23.0	-1108.7	3159.7	-889.6	-416.6	-47.3
13	179.00	1.9	63.2	2643	2691	.7	23.5	-1111.6	3097.9	-849.0	-402.2	-46.7
14	192.00	.8	64.6	2643	2691	.3	24.0	-1113.5	3034.6	-809.1	-387.7	-46.2
15	205.00	-.3	66.0	2643	2691	-.1	24.5	-1114.3	2970.0	-770.1	-373.3	-45.6
16	218.00	-1.3	67.4	2643	2691	-.5	25.0	-1114.0	2904.0	-731.9	-358.8	-44.9
17	231.00	-3.1	68.1	2643	2691	-1.2	25.3	-1112.7	2836.6	-694.6	-344.3	-44.2
18	244.00	-4.9	68.7	2643	2691	-1.9	25.5	-1109.6	2768.5	-658.1	-329.9	-43.4
19	257.00	-6.7	69.4	2643	2691	-2.5	25.8	-1104.6	2699.8	-622.6	-315.5	-42.6
20	270.00	-8.5	70.1	2643	2691	-3.2	26.0	-1097.9	2630.4	-587.9	-301.1	-41.7
21	283.00	-10.4	70.7	2643	2691	-3.9	26.3	-1089.3	2560.3	-554.2	-286.9	-40.9
22	296.00	-12.2	71.4	2643	2691	-4.6	26.5	-1079.0	2489.6	-521.4	-272.8	-39.9
23	309.00	-14.0	72.1	2643	2691	-5.3	26.8	-1066.8	2418.2	-489.5	-258.9	-39.0
24	322.00	-15.6	72.8	2643	2691	-5.9	27.0	-1052.9	2346.1	-458.5	-245.1	-38.0
25	335.00	-17.0	73.7	2643	2691	-6.4	27.4	-1037.2	2273.4	-428.5	-231.5	-36.9
26	348.00	-18.3	74.6	2643	2691	-6.9	27.7	-1020.2	2199.7	-399.4	-218.1	-35.8
27	361.00	-19.7	75.5	2643	2691	-7.5	28.0	-1001.9	2125.1	-371.3	-205.0	-34.7
28	374.00	-21.1	76.4	2643	2691	-8.0	28.4	-982.2	2049.6	-344.2	-192.1	-33.5
29	387.00	-22.4	77.3	2643	2691	-8.5	28.7	-961.1	1973.2	-318.0	-179.5	-32.3
30	400.00	-23.8	78.2	2643	2691	-9.0	29.1	-938.7	1895.9	-292.9	-167.1	-31.0
31	413.00	-25.1	79.1	2643	2691	-9.5	29.4	-915.0	1817.8	-268.7	-155.1	-29.7
32	426.00	-26.3	79.6	2643	2691	-9.9	29.6	-889.9	1738.7	-245.6	-143.3	-28.3
33	439.00	-27.4	79.9	2643	2691	-10.4	29.7	-863.6	1659.1	-223.5	-131.9	-27.0
34	452.00	-28.4	80.2	2643	2691	-10.8	29.8	-836.2	1579.2	-202.5	-120.9	-25.6
35	465.00	-29.5	80.5	2643	2691	-11.2	29.9	-807.8	1499.0	-182.5	-110.2	-24.2
36	478.00	-30.6	80.8	2643	2691	-11.6	30.0	-778.2	1418.5	-163.5	-99.9	-22.8
37	491.00	-31.7	81.1	2643	2691	-12.0	30.1	-747.6	1337.7	-145.6	-90.0	-21.5
38	504.00	-32.7	81.4	2643	2691	-12.4	30.2	-716.0	1256.7	-128.7	-80.5	-20.1
39	517.00	-33.8	81.6	2643	2691	-12.8	30.3	-683.4	1175.3	-112.9	-71.4	-18.8
40	530.00	-35.8	81.5	2643	2691	-13.6	30.3	-649.4	1093.7	-98.2	-62.7	-17.4
41	543.00	-37.9	81.2	2643	2691	-14.3	30.2	-613.6	1012.2	-84.5	-54.5	-16.1
42	556.00	-40.0	81.0	2643	2691	-15.1	30.1	-575.7	931.0	-71.8	-46.8	-14.7
43	569.00	-42.1	80.8	2643	2691	-15.9	30.0	-535.6	850.0	-60.3	-39.6	-13.4
44	582.00	-44.2	80.5	2643	2691	-16.7	29.9	-493.5	769.2	-49.7	-32.9	-12.1
45	595.00	-46.3	80.3	2643	2691	-17.5	29.8	-449.3	688.7	-40.3	-26.7	-10.8
46	608.00	-48.5	80.1	2643	2691	-18.3	29.8	-402.9	608.4	-31.8	-21.2	-9.5
47	621.00	-50.4	79.6	2643	2691	-19.1	29.6	-354.5	528.3	-24.5	-16.3	-8.3
48	634.00	-55.5	82.0	2847	2599	-19.5	31.6	-304.1	448.7	-18.1	-12.0	-7.0
49	648.00	-56.9	78.0	2847	2403	-20.0	32.4	-248.6	366.7	-12.4	-8.1	-5.7
50	662.00	-54.7	78.2	2847	2203	-19.2	35.5	-191.6	288.7	-7.8	-5.0	-4.6
51	676.00	-52.0	75.5	2847	2007	-18.3	37.6	-136.9	210.6	-4.3	-2.7	-3.3
PENT	690.00	-85.0	135.1	5693	3733	-14.9	36.2	-85.0	135.1	-1.9	-1.2	-2.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 120 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-17.1	110.5	5449	5023	-3.1	22.0	-578.0	4396.2	-1634.4	-328.8	-42.5
MEZZ	22.00	.0	64.1	2847	2898	.0	22.1	-561.0	4285.7	-1538.9	-316.2	-47.0
2	36.00	.9	60.9	2643	2691	.4	22.6	-561.0	4221.6	-1479.3	-308.4	-46.7
3	49.00	1.8	62.3	2643	2691	.7	23.1	-561.9	4160.7	-1424.8	-301.1	-46.5
4	62.00	2.7	63.7	2643	2691	1.0	23.7	-563.8	4098.4	-1371.1	-293.8	-46.3
5	75.00	3.6	65.0	2643	2691	1.4	24.2	-566.5	4034.7	-1318.3	-286.4	-46.1
6	88.00	4.5	66.4	2643	2691	1.7	24.7	-570.1	3969.7	-1266.2	-279.0	-45.8
7	101.00	5.4	67.8	2643	2691	2.0	25.2	-574.6	3903.3	-1215.1	-271.6	-45.6
8	114.00	6.3	69.1	2643	2691	2.4	25.7	-580.0	3835.5	-1164.8	-264.1	-45.3
9	127.00	5.8	70.7	2643	2691	2.2	26.3	-586.3	3766.4	-1115.4	-256.5	-45.1
10	140.00	4.7	72.4	2643	2691	1.8	26.9	-592.1	3695.7	-1066.8	-248.8	-44.7
11	153.00	3.6	74.1	2643	2691	1.4	27.5	-596.8	3623.2	-1019.3	-241.1	-44.4
12	166.00	2.5	75.8	2643	2691	.9	28.2	-600.4	3549.1	-972.7	-233.3	-44.0
13	179.00	1.3	77.5	2643	2691	.5	28.8	-602.9	3473.3	-927.0	-225.5	-43.5
14	192.00	.2	79.2	2643	2691	.1	29.4	-604.2	3395.9	-882.4	-217.7	-43.0
15	205.00	-.9	80.9	2643	2691	-.3	30.1	-604.4	3316.7	-838.7	-209.8	-42.5
16	218.00	-2.0	82.6	2643	2691	-.8	30.7	-603.5	3235.8	-796.1	-202.0	-41.9
17	231.00	-2.8	82.8	2643	2691	-1.1	30.8	-601.5	3153.3	-754.6	-194.1	-41.3
18	244.00	-3.6	83.0	2643	2691	-1.3	30.9	-598.7	3070.5	-714.2	-186.3	-40.6
19	257.00	-4.3	83.2	2643	2691	-1.6	30.9	-595.1	2987.4	-674.8	-178.6	-39.8
20	270.00	-5.1	83.5	2643	2691	-1.9	31.0	-590.8	2904.2	-636.5	-170.9	-39.1
21	283.00	-5.9	83.7	2643	2691	-2.2	31.1	-585.7	2820.7	-599.3	-163.2	-38.2
22	296.00	-6.6	83.9	2643	2691	-2.5	31.2	-579.8	2737.0	-563.1	-155.6	-37.3
23	309.00	-7.4	84.1	2643	2691	-2.8	31.3	-573.2	2653.1	-528.1	-148.1	-36.4
24	322.00	-8.1	84.4	2643	2691	-3.1	31.4	-565.9	2569.0	-494.2	-140.7	-35.4
25	335.00	-8.6	84.6	2643	2691	-3.2	31.4	-557.8	2484.6	-461.3	-133.4	-34.4
26	348.00	-9.1	84.9	2643	2691	-3.4	31.5	-549.2	2400.0	-429.6	-126.2	-33.4
27	361.00	-9.6	85.1	2643	2691	-3.6	31.6	-540.1	2315.1	-398.9	-119.2	-32.4
28	374.00	-10.2	85.4	2643	2691	-3.8	31.7	-530.5	2229.9	-369.4	-112.2	-31.3
29	387.00	-10.7	85.7	2643	2691	-4.0	31.8	-520.3	2144.5	-340.9	-105.4	-30.2
30	400.00	-11.2	85.9	2643	2691	-4.2	31.9	-509.6	2058.9	-313.6	-98.7	-29.2
31	413.00	-11.7	86.2	2643	2691	-4.4	32.0	-498.4	1973.0	-287.4	-92.1	-28.1
32	426.00	-12.1	86.6	2643	2691	-4.6	32.2	-486.7	1886.8	-262.3	-85.7	-27.1
33	439.00	-12.4	87.1	2643	2691	-4.7	32.4	-474.6	1800.2	-238.4	-79.5	-25.8
34	452.00	-12.8	87.6	2643	2691	-4.8	32.5	-462.1	1713.1	-215.5	-73.4	-24.7
35	465.00	-13.1	88.0	2643	2691	-5.0	32.7	-449.4	1625.6	-193.8	-67.5	-23.6
36	478.00	-13.4	88.5	2643	2691	-5.1	32.9	-436.3	1537.6	-173.3	-61.7	-22.4
37	491.00	-13.7	89.0	2643	2691	-5.2	33.1	-422.9	1449.0	-153.8	-56.1	-21.2
38	504.00	-14.1	89.5	2643	2691	-5.3	33.3	-409.1	1360.0	-135.6	-50.7	-20.0
39	517.00	-14.4	90.0	2643	2691	-5.4	33.4	-395.1	1270.5	-118.5	-45.5	-18.8
40	530.00	-15.9	90.3	2643	2691	-6.0	33.5	-380.7	1180.5	-102.6	-40.4	-17.6
41	543.00	-17.4	90.5	2643	2691	-6.6	33.6	-364.8	1090.2	-87.8	-35.6	-16.4
42	556.00	-19.0	90.8	2643	2691	-7.2	33.7	-347.4	999.7	-74.2	-31.0	-15.1
43	569.00	-20.6	91.0	2643	2691	-7.8	33.8	-328.4	908.9	-61.8	-26.6	-13.9
44	582.00	-22.2	91.3	2643	2691	-8.4	33.9	-307.8	817.9	-50.6	-22.4	-12.6
45	595.00	-23.8	91.5	2643	2691	-9.0	34.0	-285.6	726.6	-40.5	-18.6	-11.2
46	608.00	-25.3	91.8	2643	2691	-9.6	34.1	-261.9	635.1	-31.7	-15.0	-9.9
47	621.00	-27.1	91.4	2643	2691	-10.2	34.0	-236.6	543.3	-24.0	-11.8	-8.5
48	634.00	-31.6	91.1	2847	2599	-11.1	35.1	-209.5	451.9	-17.6	-8.9	-7.1
49	648.00	-34.2	82.5	2847	2403	-12.0	34.3	-177.9	360.7	-11.9	-6.2	-5.9
50	662.00	-36.9	78.5	2847	2203	-13.0	35.6	-143.7	278.2	-7.4	-3.9	-5.0
51	676.00	-39.6	73.0	2847	2007	-13.9	36.4	-106.8	199.7	-4.1	-2.2	-4.0
PENT	690.00	-67.2	126.8	5693	3733	-11.8	34.0	-67.2	126.8	-1.8	-.9	-2.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	6.1	113.5	5449	5023	1.1	22.6	20.5	4544.8	-1671.7	-67.3	-13.2
MEZZ	22.00	8.5	66.0	2847	2898	3.0	22.8	14.3	4431.3	-1573.0	-67.7	-18.0
2	36.00	8.5	63.1	2643	2691	3.2	23.4	5.8	4365.3	-1511.4	-67.8	-18.1
3	49.00	9.2	64.8	2643	2691	3.5	24.1	-2.7	4302.2	-1455.1	-67.8	-18.2
4	62.00	9.8	66.4	2643	2691	3.7	24.7	-11.9	4237.5	-1399.5	-67.7	-18.3
5	75.00	10.5	68.1	2643	2691	4.0	25.3	-21.7	4171.0	-1344.9	-67.5	-18.4
6	88.00	11.1	69.8	2643	2691	4.2	25.9	-32.2	4102.9	-1291.1	-67.2	-18.5
7	101.00	11.8	71.5	2643	2691	4.5	26.6	-43.3	4033.1	-1238.2	-66.7	-18.6
8	114.00	12.4	73.2	2643	2691	4.7	27.2	-55.1	3961.6	-1186.3	-66.0	-18.7
9	127.00	11.5	74.8	2643	2691	4.4	27.8	-67.6	3888.4	-1135.2	-65.2	-18.9
10	140.00	9.9	76.3	2643	2691	3.7	28.4	-79.1	3813.6	-1085.2	-64.3	-19.0
11	153.00	8.3	77.8	2643	2691	3.1	28.9	-89.0	3737.3	-1036.1	-63.2	-19.1
12	166.00	6.6	79.4	2643	2691	2.5	29.5	-97.2	3659.5	-988.0	-62.0	-19.1
13	179.00	5.0	80.9	2643	2691	1.9	30.1	-103.9	3580.1	-941.0	-60.7	-19.0
14	192.00	3.4	82.5	2643	2691	1.3	30.6	-108.9	3499.2	-894.9	-59.3	-18.9
15	205.00	1.7	84.0	2643	2691	.7	31.2	-112.3	3416.7	-850.0	-57.9	-18.8
16	218.00	.1	85.5	2643	2691	.0	31.8	-114.0	3332.8	-806.1	-56.4	-18.6
17	231.00	.1	85.9	2643	2691	.0	31.9	-114.1	3247.2	-763.3	-54.9	-18.3
18	244.00	.1	86.3	2643	2691	.0	32.1	-114.2	3161.3	-721.7	-53.4	-18.1
19	257.00	.1	86.7	2643	2691	.0	32.2	-114.3	3075.0	-681.2	-51.9	-17.8
20	270.00	.1	87.1	2643	2691	.1	32.4	-114.5	2988.3	-641.7	-50.4	-17.5
21	283.00	.1	87.5	2643	2691	.1	32.5	-114.6	2901.2	-603.5	-49.0	-17.2
22	296.00	.2	87.9	2643	2691	.1	32.7	-114.8	2813.7	-566.3	-47.5	-16.9
23	309.00	.2	88.2	2643	2691	.1	32.8	-114.9	2725.8	-530.3	-46.0	-16.5
24	322.00	.2	88.6	2643	2691	.1	32.9	-115.1	2637.6	-495.4	-44.5	-16.2
25	335.00	.2	88.9	2643	2691	.1	33.1	-115.3	2549.0	-461.7	-43.0	-15.8
26	348.00	.2	89.3	2643	2691	.1	33.2	-115.4	2460.0	-429.2	-41.5	-15.4
27	361.00	.2	89.6	2643	2691	.1	33.3	-115.6	2370.8	-397.8	-40.0	-15.0
28	374.00	.2	89.9	2643	2691	.1	33.4	-115.8	2281.2	-367.5	-38.5	-14.6
29	387.00	.2	90.3	2643	2691	.1	33.5	-115.9	2191.2	-338.5	-37.0	-14.2
30	400.00	.2	90.6	2643	2691	.1	33.7	-116.1	2101.0	-310.6	-35.5	-13.8
31	413.00	.2	90.9	2643	2691	.1	33.8	-116.3	2010.4	-283.8	-34.0	-13.4
32	426.00	.4	91.3	2643	2691	.2	33.9	-116.5	1919.5	-258.3	-32.4	-12.9
33	439.00	.9	91.8	2643	2691	.3	34.1	-116.9	1828.1	-233.9	-30.9	-12.5
34	452.00	1.3	92.3	2643	2691	.5	34.3	-117.8	1736.3	-210.8	-29.4	-12.0
35	465.00	1.7	92.8	2643	2691	.7	34.5	-119.1	1644.0	-188.8	-27.9	-11.5
36	478.00	2.2	93.3	2643	2691	.8	34.7	-120.8	1551.1	-168.0	-26.3	-10.9
37	491.00	2.6	93.8	2643	2691	1.0	34.9	-123.0	1457.8	-148.5	-24.7	-10.3
38	504.00	3.1	94.3	2643	2691	1.2	35.1	-125.6	1363.9	-130.1	-23.1	-9.7
39	517.00	3.5	94.8	2643	2691	1.3	35.2	-128.7	1269.6	-113.0	-21.4	-9.1
40	530.00	2.5	95.2	2643	2691	.9	35.4	-132.2	1174.7	-97.1	-19.8	-8.5
41	543.00	1.3	95.5	2643	2691	.5	35.5	-134.7	1079.6	-82.5	-18.0	-7.8
42	556.00	.2	95.7	2643	2691	.1	35.6	-136.0	984.1	-69.1	-16.3	-7.1
43	569.00	-1.0	96.0	2643	2691	-.4	35.7	-136.1	888.4	-56.9	-14.5	-6.5
44	582.00	-2.2	96.3	2643	2691	-.8	35.8	-135.1	792.3	-46.0	-12.7	-5.8
45	595.00	-3.3	96.6	2643	2691	-1.3	35.9	-133.0	696.0	-36.3	-11.0	-5.1
46	608.00	-4.5	96.9	2643	2691	-1.7	36.0	-129.6	599.4	-27.9	-9.3	-4.4
47	621.00	-5.7	96.1	2643	2691	-2.2	35.7	-125.1	502.5	-20.7	-7.6	-3.7
48	634.00	-7.7	92.5	2847	2599	-2.7	35.6	-119.4	406.4	-14.8	-6.0	-3.0
49	648.00	-9.3	81.1	2847	2403	-3.3	33.7	-111.7	313.9	-9.8	-4.4	-2.9
50	662.00	-20.2	72.9	2847	2203	-7.1	33.1	-102.4	232.8	-5.9	-2.9	-3.2
51	676.00	-32.5	61.7	2847	2007	-11.4	30.7	-82.3	159.9	-3.2	-1.6	-3.0
PENT	690.00	-49.7	98.2	5693	3733	-8.7	26.3	-49.7	98.2	-1.4	-.7	-2.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 140 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-1.3	94.1	5449	5023	-.2	18.7	244.2	4188.8	-1515.6	97.5	11.9
MEZZ	22.00	-2.7	67.6	2847	2898	-1.0	23.3	245.5	4094.8	-1424.5	92.1	9.8
2	36.00	-1.9	63.8	2643	2691	-.7	23.7	248.2	4027.2	-1367.6	88.7	9.7
3	49.00	-1.2	64.8	2643	2691	-.5	24.1	250.0	3963.4	-1315.7	85.4	9.5
4	62.00	-.6	65.8	2643	2691	-.2	24.5	251.2	3898.6	-1264.6	82.2	9.2
5	75.00	.1	66.8	2643	2691	.0	24.8	251.8	3832.8	-1214.3	78.9	8.9
6	88.00	.7	67.9	2643	2691	.3	25.2	251.8	3765.9	-1165.0	75.6	8.5
7	101.00	1.3	68.9	2643	2691	.5	25.6	251.1	3698.1	-1116.4	72.3	8.0
8	114.00	2.0	69.9	2643	2691	.7	26.0	249.7	3629.2	-1068.8	69.1	7.5
9	127.00	1.8	71.2	2643	2691	.7	26.4	247.8	3559.3	-1022.1	65.9	6.8
10	140.00	1.3	72.6	2643	2691	.5	27.0	245.9	3488.1	-976.3	62.6	6.2
11	153.00	.8	73.9	2643	2691	.3	27.5	244.6	3415.6	-931.4	59.5	5.7
12	166.00	.4	75.3	2643	2691	.1	28.0	243.7	3341.7	-887.5	56.3	5.2
13	179.00	-.1	76.7	2643	2691	-.1	28.5	243.4	3266.3	-844.5	53.1	4.8
14	192.00	-.6	78.1	2643	2691	-.2	29.0	243.5	3189.6	-802.6	50.0	4.5
15	205.00	-1.1	79.5	2643	2691	-.4	29.5	244.2	3111.5	-761.7	46.8	4.3
16	218.00	-1.6	80.9	2643	2691	-.6	30.1	245.3	3032.0	-721.7	43.6	3.9
17	231.00	-.2	81.3	2643	2691	-.1	30.2	246.9	2951.1	-682.8	40.4	3.7
18	244.00	1.2	81.6	2643	2691	.4	30.3	247.1	2869.8	-645.0	37.2	3.5
19	257.00	2.6	82.0	2643	2691	1.0	30.5	246.0	2788.2	-608.2	34.0	3.3
20	270.00	4.0	82.3	2643	2691	1.5	30.6	243.4	2706.2	-572.5	30.8	3.1
21	283.00	5.4	82.7	2643	2691	2.0	30.7	239.5	2623.9	-537.8	27.7	2.9
22	296.00	6.8	83.0	2643	2691	2.6	30.9	234.1	2541.2	-504.2	24.6	2.7
23	309.00	8.2	83.4	2643	2691	3.1	31.0	227.3	2458.2	-471.7	21.6	2.4
24	322.00	9.2	83.6	2643	2691	3.5	31.1	219.2	2374.8	-440.3	18.7	2.1
25	335.00	9.5	83.5	2643	2691	3.6	31.0	209.9	2291.2	-410.0	15.9	1.9
26	348.00	9.8	83.5	2643	2691	3.7	31.0	200.4	2207.6	-380.8	13.2	1.6
27	361.00	10.1	83.4	2643	2691	3.8	31.0	190.6	2124.1	-352.6	10.7	1.3
28	374.00	10.3	83.3	2643	2691	3.9	31.0	180.6	2040.8	-325.5	8.3	1.1
29	387.00	10.6	83.2	2643	2691	4.0	30.9	170.3	1957.5	-299.5	6.0	.8
30	400.00	10.9	83.1	2643	2691	4.1	30.9	159.7	1874.2	-274.6	3.8	.5
31	413.00	11.2	83.1	2643	2691	4.2	30.9	148.8	1791.1	-250.8	1.8	.2
32	426.00	11.8	83.1	2643	2691	4.5	30.9	137.6	1708.0	-228.1	-.0	-.1
33	439.00	12.6	83.1	2643	2691	4.8	30.9	125.9	1625.0	-206.4	-1.7	-.3
34	452.00	13.5	83.2	2643	2691	5.1	30.9	113.2	1541.8	-185.8	-3.3	-.5
35	465.00	14.3	83.2	2643	2691	5.4	30.9	99.8	1458.7	-166.3	-4.7	-.7
36	478.00	15.2	83.3	2643	2691	5.7	31.0	85.5	1375.4	-147.9	-5.9	-.9
37	491.00	16.0	83.3	2643	2691	6.1	31.0	70.3	1292.1	-130.6	-6.9	-1.1
38	504.00	16.9	83.4	2643	2691	6.4	31.0	54.3	1208.8	-114.3	-7.7	-1.2
39	517.00	17.7	83.5	2643	2691	6.7	31.0	37.5	1125.4	-99.1	-8.3	-1.3
40	530.00	16.8	84.1	2643	2691	6.4	31.3	19.8	1041.9	-85.0	-8.7	-1.3
41	543.00	15.8	84.9	2643	2691	6.0	31.5	2.9	957.8	-72.0	-8.8	-1.4
42	556.00	14.8	85.6	2643	2691	5.6	31.8	-12.9	872.9	-60.1	-8.7	-1.4
43	569.00	13.7	86.3	2643	2691	5.2	32.1	-27.6	787.3	-49.4	-8.5	-1.5
44	582.00	12.7	87.0	2643	2691	4.8	32.3	-41.3	701.0	-39.7	-8.0	-1.5
45	595.00	11.6	87.8	2643	2691	4.4	32.6	-54.0	614.0	-31.1	-7.4	-1.5
46	608.00	10.6	88.5	2643	2691	4.0	32.9	-65.7	526.2	-23.7	-6.6	-1.5
47	621.00	8.7	88.3	2643	2691	3.3	32.8	-76.3	437.7	-17.5	-5.7	-1.4
48	634.00	3.4	83.4	2847	2599	1.2	32.1	-84.9	349.4	-12.3	-4.7	-1.4
49	648.00	-2.6	72.4	2847	2403	-.9	30.1	-88.4	266.0	-8.0	-3.5	-2.0
50	662.00	-18.0	64.0	2847	2207	-6.3	29.1	-85.7	193.6	-4.8	-2.2	-3.0
51	676.00	-34.9	51.5	2847	2007	-12.3	25.7	-67.7	129.6	-2.5	-1.2	-3.0
PENT	690.00	-32.8	78.1	5693	3733	-5.8	20.9	-32.8	78.1	-1.1	-.5	-1.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 150 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	31.0	66.4	5449	5023	5.7	13.2	459.2	3476.9	-1288.9	171.2	23.5
MEZZ	22.00	10.0	50.8	2847	2898	3.5	17.5	428.2	3410.6	-1213.1	161.5	23.4
2	36.00	7.9	48.1	2643	2691	3.0	17.9	418.2	3359.8	-1165.7	155.5	23.6
3	49.00	6.5	49.0	2643	2691	2.4	18.2	410.3	3311.7	-1122.4	150.2	23.6
4	62.00	5.1	49.9	2643	2691	1.9	18.5	403.9	3262.7	-1079.6	144.9	23.6
5	75.00	3.7	50.8	2643	2691	1.4	18.9	398.8	3212.8	-1037.5	139.6	23.4
6	88.00	2.3	51.7	2643	2691	.9	19.2	395.1	3162.1	-996.1	134.5	23.2
7	101.00	.9	52.6	2643	2691	.3	19.5	392.9	3110.4	-955.3	129.4	22.9
8	114.00	-.5	53.5	2643	2691	-.2	19.9	392.0	3057.8	-915.2	124.3	22.5
9	127.00	-1.7	54.6	2643	2691	-.3	20.3	392.6	3004.4	-875.8	119.2	22.0
10	140.00	-.2	55.9	2643	2691	-.1	20.8	393.2	2949.8	-837.1	114.1	21.5
11	153.00	.3	57.1	2643	2691	.1	21.2	393.4	2893.9	-799.1	108.9	21.0
12	166.00	.8	58.4	2643	2691	.3	21.7	393.1	2836.8	-761.9	103.8	20.6
13	179.00	1.3	59.7	2643	2691	.5	22.2	392.3	2778.4	-725.4	98.7	20.1
14	192.00	1.8	60.9	2643	2691	.7	22.6	391.0	2718.7	-689.7	93.6	19.6
15	205.00	2.3	62.2	2643	2691	.9	23.1	389.2	2657.7	-654.7	88.6	19.2
16	218.00	2.8	63.5	2643	2691	1.0	23.6	386.9	2595.5	-620.6	83.5	18.8
17	231.00	3.9	64.3	2643	2691	1.5	23.9	384.2	2532.1	-587.2	78.5	18.3
18	244.00	5.1	65.2	2643	2691	1.9	24.2	380.2	2467.7	-554.7	73.5	17.9
19	257.00	6.3	66.0	2643	2691	2.4	24.5	375.1	2402.6	-523.1	68.6	17.4
20	270.00	7.5	66.9	2643	2691	2.8	24.8	368.8	2336.5	-492.3	63.8	17.0
21	283.00	8.7	67.7	2643	2691	3.3	25.2	361.3	2269.7	-462.3	59.0	16.5
22	296.00	9.9	68.5	2643	2691	3.7	25.5	352.6	2202.5	-433.3	54.4	16.0
23	309.00	11.1	69.4	2643	2691	4.2	25.8	342.8	2133.5	-405.1	49.9	15.4
24	322.00	11.9	70.1	2643	2691	4.5	26.1	331.7	2064.1	-377.8	45.5	14.9
25	335.00	11.8	70.7	2643	2691	4.5	26.3	319.8	1994.0	-351.4	41.3	14.3
26	348.00	11.8	71.2	2643	2691	4.5	26.5	308.0	1923.3	-326.0	37.2	13.7
27	361.00	11.8	71.7	2643	2691	4.5	26.7	296.2	1852.1	-301.4	33.3	13.1
28	374.00	11.7	72.3	2643	2691	4.4	26.9	284.4	1780.4	-277.8	29.5	12.5
29	387.00	11.7	72.8	2643	2691	4.4	27.0	272.6	1708.1	-255.1	25.9	11.8
30	400.00	11.7	73.3	2643	2691	4.4	27.2	260.9	1635.3	-233.4	22.4	11.1
31	413.00	11.7	73.9	2643	2691	4.4	27.4	249.2	1562.0	-212.6	19.1	10.5
32	426.00	12.6	74.1	2643	2691	4.8	27.5	237.6	1488.2	-192.8	15.9	9.7
33	439.00	14.1	74.2	2643	2691	5.3	27.6	225.0	1414.0	-173.9	12.9	9.0
34	452.00	15.7	74.3	2643	2691	5.9	27.6	210.9	1339.8	-156.0	10.1	8.3
35	465.00	17.2	74.4	2643	2691	6.5	27.6	195.3	1265.5	-139.1	7.4	7.6
36	478.00	18.7	74.5	2643	2691	7.1	27.7	178.1	1191.2	-123.1	5.0	7.0
37	491.00	20.3	74.6	2643	2691	7.7	27.7	159.3	1116.7	-108.1	2.8	6.3
38	504.00	21.8	74.6	2643	2691	8.3	27.7	139.0	1042.1	-94.1	.9	5.7
39	517.00	23.4	74.7	2643	2691	8.8	27.8	117.2	967.5	-81.0	-.8	5.1
40	530.00	22.8	75.6	2643	2691	8.6	28.1	93.9	892.8	-69.0	-2.2	4.5
41	543.00	22.0	76.6	2643	2691	8.3	28.5	71.1	817.2	-57.8	-3.2	4.0
42	556.00	21.2	77.6	2643	2691	8.0	28.8	49.1	740.6	-47.7	-4.0	3.4
43	569.00	20.4	78.5	2643	2691	7.7	29.2	27.9	663.0	-38.6	-4.5	2.8
44	582.00	19.6	79.5	2643	2691	7.4	29.5	7.5	584.5	-30.5	-4.7	2.3
45	595.00	18.8	80.5	2643	2691	7.1	29.9	-12.1	505.0	-23.4	-4.7	1.7
46	608.00	18.0	81.4	2643	2691	6.8	30.3	-30.9	424.5	-17.4	-4.4	1.2
47	621.00	15.3	81.3	2643	2691	5.8	30.2	-48.9	343.0	-12.4	-3.9	.6
48	634.00	5.4	72.2	2847	2599	1.9	27.8	-64.2	261.8	-8.4	-3.2	.2
49	648.00	-6.0	58.8	2847	2403	-2.1	24.5	-69.6	189.6	-5.3	-2.2	-1.0
50	662.00	-19.1	48.9	2847	2203	-6.7	22.2	-63.5	130.8	-3.0	-1.3	-2.6
51	676.00	-32.5	35.5	2847	2007	-11.4	17.7	-44.4	81.8	-1.5	-.6	-2.7
PENT	690.00	-11.9	46.4	5693	3733	-2.1	12.4	-11.9	46.4	-.6	-.2	-1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 160 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	48.1	36.5	5449	5023	8.8	7.3	1815.7	2090.6	-772.8	706.0	31.9
MEZZ	22.00	29.1	31.6	2847	2898	10.2	10.9	1767.7	2054.2	-727.2	666.6	32.2
2	36.00	27.2	29.4	2643	2691	10.3	10.9	1738.6	2022.5	-698.6	642.1	32.3
3	49.00	27.4	29.5	2643	2691	10.3	11.0	1711.4	1993.1	-672.5	619.6	32.2
4	62.00	27.5	29.6	2643	2691	10.4	11.0	1684.1	1963.6	-646.8	597.6	32.1
5	75.00	27.7	29.7	2643	2691	10.5	11.0	1656.5	1933.9	-621.5	575.8	32.0
6	88.00	27.9	29.8	2643	2691	10.5	11.1	1628.8	1904.2	-596.5	554.5	31.8
7	101.00	28.1	29.9	2643	2691	10.6	11.1	1600.9	1874.5	-572.0	533.5	31.5
8	114.00	28.2	30.0	2643	2691	10.7	11.1	1572.9	1844.6	-547.8	512.9	31.2
9	127.00	27.8	30.9	2643	2691	10.5	11.5	1544.6	1814.6	-524.0	492.6	30.8
10	140.00	27.1	32.3	2643	2691	10.2	12.0	1516.8	1783.7	-500.6	472.7	30.5
11	153.00	26.4	33.7	2643	2691	10.0	12.5	1489.8	1751.4	-477.7	453.2	30.0
12	166.00	25.6	35.2	2643	2691	9.7	13.1	1463.4	1717.6	-455.1	434.0	29.6
13	179.00	24.9	36.6	2643	2691	9.4	13.6	1437.8	1682.5	-433.0	415.1	29.2
14	192.00	24.2	38.0	2643	2691	9.1	14.1	1412.9	1645.9	-411.4	396.6	28.8
15	205.00	23.4	39.4	2643	2691	8.9	14.6	1388.7	1607.9	-390.2	378.4	28.3
16	218.00	22.7	40.8	2643	2691	8.6	15.2	1365.3	1568.6	-369.6	360.5	27.8
17	231.00	23.6	41.1	2643	2691	8.9	15.3	1342.5	1527.8	-349.5	342.9	27.4
18	244.00	24.5	41.3	2643	2691	9.3	15.4	1319.0	1486.7	-329.9	325.6	26.8
19	257.00	25.3	41.6	2643	2691	9.6	15.5	1294.5	1445.4	-310.8	308.6	26.2
20	270.00	26.2	41.9	2643	2691	9.9	15.6	1269.2	1403.8	-292.3	291.9	25.6
21	283.00	27.1	42.2	2643	2691	10.2	15.7	1243.0	1361.9	-274.3	275.6	24.9
22	296.00	28.0	42.5	2643	2691	10.6	15.8	1215.9	1319.7	-256.9	259.6	24.2
23	309.00	28.8	42.7	2643	2691	10.9	15.9	1187.9	1277.2	-240.0	244.0	23.4
24	322.00	29.8	43.0	2643	2691	11.3	16.0	1159.1	1234.5	-223.7	228.7	22.6
25	335.00	30.8	43.1	2643	2691	11.7	16.0	1129.3	1191.5	-207.9	213.8	21.7
26	348.00	31.9	43.1	2643	2691	12.1	16.0	1098.4	1148.4	-192.7	199.4	20.8
27	361.00	33.0	43.2	2643	2691	12.5	16.1	1066.5	1105.3	-178.0	185.3	19.9
28	374.00	34.0	43.3	2643	2691	12.9	16.1	1033.6	1062.1	-164.0	171.6	18.9
29	387.00	35.1	43.4	2643	2691	13.3	16.1	999.5	1018.7	-150.4	158.4	18.0
30	400.00	36.2	43.5	2643	2691	13.7	16.2	964.5	975.3	-137.5	145.7	17.0
31	413.00	37.2	43.6	2643	2691	14.1	16.2	928.3	931.8	-125.1	133.4	16.0
32	426.00	38.4	43.6	2643	2691	14.5	16.2	891.1	888.3	-113.2	121.5	15.0
33	439.00	39.8	43.7	2643	2691	15.0	16.2	852.6	844.6	-102.0	110.2	14.0
34	452.00	41.1	43.7	2643	2691	15.5	16.3	812.9	800.9	-91.3	99.4	13.0
35	465.00	42.4	43.8	2643	2691	16.1	16.3	771.8	757.2	-81.1	89.1	12.0
36	478.00	43.8	43.8	2643	2691	16.6	16.3	729.3	713.4	-71.6	79.3	11.1
37	491.00	45.1	43.9	2643	2691	17.1	16.3	685.5	669.5	-62.6	70.1	10.3
38	504.00	46.4	43.9	2643	2691	17.6	16.3	640.5	625.6	-54.2	61.5	9.4
39	517.00	47.8	44.0	2643	2691	18.1	16.3	594.0	581.7	-46.3	53.5	8.6
40	530.00	47.2	45.5	2643	2691	17.9	16.9	546.3	537.7	-39.1	46.1	7.8
41	543.00	46.5	47.1	2643	2691	17.6	17.5	499.1	492.3	-32.4	39.3	7.1
42	556.00	45.8	48.7	2643	2691	17.3	18.1	452.5	445.2	-26.3	33.1	6.5
43	569.00	45.1	50.3	2643	2691	17.1	18.7	406.7	396.5	-20.8	27.5	5.9
44	582.00	44.4	51.9	2643	2691	16.8	19.3	361.5	346.3	-16.0	22.5	5.5
45	595.00	43.7	53.5	2643	2691	16.5	19.9	317.1	294.4	-11.8	18.1	5.1
46	608.00	43.0	55.1	2643	2691	16.3	20.5	273.4	240.9	-8.3	14.3	4.7
47	621.00	40.9	55.9	2643	2691	15.5	20.8	230.3	185.8	-5.6	11.0	4.5
48	634.00	36.1	45.0	2847	2599	12.7	17.3	189.4	130.0	-3.5	8.3	4.3
49	648.00	27.8	33.3	2847	2403	9.8	13.9	153.3	85.0	-2.0	5.9	3.6
50	662.00	25.2	23.7	2847	2203	8.8	10.8	125.6	51.6	-1.0	3.9	1.6
51	676.00	23.5	14.2	2847	2007	8.3	7.1	100.4	27.9	-.5	2.3	.8
PENT	690.00	76.9	13.7	5693	3733	13.5	3.7	76.9	13.7	-.2	1.1	1.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 170 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	56.0	-.0	5449	5023	10.3	-.0	3942.4	289.2	-78.0	1559.1	35.5
MEZZ	22.00	50.2	9.8	2847	2898	17.6	3.4	3886.4	289.2	-71.6	1472.9	36.1
2	36.00	48.2	8.8	2643	2691	18.2	3.3	3836.2	279.4	-67.6	1418.9	35.9
3	49.00	49.7	8.5	2643	2691	18.8	3.2	3788.0	270.6	-64.1	1369.3	35.7
4	62.00	51.3	8.2	2643	2691	19.4	3.1	3738.2	262.0	-60.6	1320.4	35.5
5	75.00	52.8	8.0	2643	2691	20.0	3.0	3687.0	253.8	-57.2	1272.1	35.3
6	88.00	54.3	7.7	2643	2691	20.5	2.8	3634.2	245.8	-54.0	1224.5	35.1
7	101.00	55.8	7.4	2643	2691	21.1	2.7	3579.9	238.2	-50.8	1177.7	34.9
8	114.00	57.4	7.1	2643	2691	21.7	2.6	3524.0	230.8	-47.8	1131.5	34.7
9	127.00	58.2	7.0	2643	2691	22.0	2.6	3466.6	223.7	-44.8	1086.0	34.5
10	140.00	58.6	7.1	2643	2691	22.2	2.6	3408.5	216.7	-42.0	1041.4	34.3
11	153.00	59.1	7.2	2643	2691	22.4	2.7	3349.8	209.6	-39.2	997.4	34.1
12	166.00	59.5	7.3	2643	2691	22.5	2.7	3290.8	202.4	-36.5	954.3	33.8
13	179.00	60.0	7.3	2643	2691	22.7	2.7	3231.2	195.2	-33.9	911.9	33.5
14	192.00	60.5	7.4	2643	2691	22.9	2.7	3171.2	187.8	-31.5	870.3	33.2
15	205.00	60.9	7.5	2643	2691	23.0	2.8	3110.7	180.4	-29.1	829.4	32.9
16	218.00	61.4	7.5	2643	2691	23.2	2.8	3049.8	173.0	-26.8	789.4	32.5
17	231.00	63.1	7.2	2643	2691	23.9	2.7	2988.4	165.4	-24.6	750.1	32.1
18	244.00	64.7	6.9	2643	2691	24.5	2.6	2925.4	158.2	-22.5	711.7	31.7
19	257.00	66.4	6.6	2643	2691	25.1	2.5	2860.6	151.3	-20.5	674.1	31.2
20	270.00	68.1	6.3	2643	2691	25.8	2.3	2794.2	144.6	-18.5	637.3	30.6
21	283.00	69.8	6.0	2643	2691	26.4	2.2	2726.1	138.3	-16.7	601.4	30.0
22	296.00	71.5	5.7	2643	2691	27.0	2.1	2656.3	132.3	-14.9	566.5	29.4
23	309.00	73.2	5.4	2643	2691	27.7	2.0	2584.9	126.6	-13.2	532.4	28.7
24	322.00	74.6	5.2	2643	2691	28.2	1.9	2511.7	121.2	-11.6	499.3	27.9
25	335.00	75.5	5.4	2643	2691	28.6	2.0	2437.1	116.0	-10.1	467.1	27.1
26	348.00	76.5	5.6	2643	2691	28.9	2.1	2361.5	110.6	-8.6	435.9	26.3
27	361.00	77.4	5.8	2643	2691	29.3	2.2	2285.1	105.0	-7.2	405.7	25.5
28	374.00	78.3	6.0	2643	2691	29.6	2.2	2207.7	99.2	-5.9	376.5	24.7
29	387.00	79.2	6.2	2643	2691	30.0	2.3	2129.3	93.2	-4.6	348.3	23.9
30	400.00	80.2	6.4	2643	2691	30.3	2.4	2050.1	87.0	-3.5	321.1	23.1
31	413.00	81.1	6.5	2643	2691	30.7	2.4	1969.9	80.7	-2.4	295.0	22.3
32	426.00	82.0	6.5	2643	2691	31.0	2.4	1888.8	74.1	-1.4	269.9	21.5
33	439.00	82.8	6.4	2643	2691	31.3	2.4	1806.9	67.6	-.5	245.9	20.7
34	452.00	83.7	6.3	2643	2691	31.7	2.4	1724.0	61.1	.4	223.0	19.9
35	465.00	84.5	6.2	2643	2691	32.0	2.3	1640.3	54.8	1.1	201.1	19.1
36	478.00	85.4	6.1	2643	2691	32.3	2.3	1555.8	48.6	1.8	180.3	18.4
37	491.00	86.3	6.0	2643	2691	32.6	2.2	1470.4	42.5	2.4	160.6	17.6
38	504.00	87.1	5.9	2643	2691	33.0	2.2	1384.1	36.5	2.9	142.1	16.8
39	517.00	88.0	5.8	2643	2691	33.3	2.1	1297.0	30.6	3.3	124.7	16.0
40	530.00	88.5	6.5	2643	2691	33.5	2.4	1209.0	24.9	3.7	108.4	15.2
41	543.00	89.1	7.3	2643	2691	33.7	2.7	1120.5	18.3	4.0	93.2	14.5
42	556.00	89.6	8.1	2643	2691	33.9	3.0	1031.4	11.9	4.2	79.2	13.8
43	569.00	90.1	9.0	2643	2691	34.1	3.3	941.8	2.9	4.3	66.4	13.1
44	582.00	90.7	9.8	2643	2691	34.3	3.6	851.7	-6.1	4.2	54.8	12.4
45	595.00	91.2	10.6	2643	2691	34.5	3.9	761.0	-15.9	4.1	44.3	11.8
46	608.00	91.7	11.4	2643	2691	34.7	4.3	669.8	-26.5	3.8	35.0	11.2
47	621.00	90.7	12.3	2643	2691	34.3	4.6	578.1	-38.0	3.4	26.9	10.6
48	634.00	90.0	1.6	2847	2599	31.6	.6	487.4	-50.2	2.8	19.9	10.1
49	648.00	82.0	-3.2	2847	2403	28.8	-1.3	397.5	-51.9	2.1	13.7	8.3
50	662.00	80.5	-9.6	2847	2203	28.3	-4.4	315.4	-48.7	1.4	8.8	6.3
51	676.00	80.0	-13.8	2847	2007	28.1	-6.9	234.9	-39.1	.8	4.9	4.3
PENT	690.00	155.0	-25.3	5693	3733	27.2	-6.8	155.0	-25.3	.4	2.2	3.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 180 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	66.1	-15.2	5449	5023	12.1	-3.0	5357.5	-261.2	153.3	2128.9	19.1
MEZZ	22.00	64.1	1.5	2847	2898	22.5	.5	5291.4	-246.0	147.7	2011.7	20.3
2	36.00	62.7	1.8	2643	2691	23.7	.7	5227.2	-247.5	144.2	1938.1	20.1
3	49.00	65.7	2.2	2643	2691	24.9	.8	5164.5	-249.4	141.0	1870.5	19.9
4	62.00	68.7	2.6	2643	2691	26.0	1.0	5098.8	-251.6	137.7	1803.8	19.7
5	75.00	71.8	3.0	2643	2691	27.1	1.1	5030.1	-254.2	134.4	1738.0	19.5
6	88.00	74.8	3.4	2643	2691	28.3	1.3	4958.4	-257.2	131.1	1673.1	19.4
7	101.00	77.8	3.8	2643	2691	29.4	1.4	4883.6	-260.6	127.8	1609.1	19.2
8	114.00	80.8	4.2	2643	2691	30.6	1.6	4805.8	-264.4	124.3	1546.1	19.1
9	127.00	81.9	4.2	2643	2691	31.0	1.5	4725.0	-268.6	120.9	1484.2	18.9
10	140.00	82.2	3.9	2643	2691	31.1	1.5	4643.0	-272.8	117.4	1423.3	18.8
11	153.00	82.4	3.7	2643	2691	31.2	1.4	4560.9	-276.7	113.8	1363.4	18.6
12	166.00	82.6	3.5	2643	2691	31.2	1.3	4478.5	-280.4	110.2	1304.7	18.5
13	179.00	82.8	3.2	2643	2691	31.3	1.2	4395.9	-283.9	106.5	1247.0	18.3
14	192.00	83.0	3.0	2643	2691	31.4	1.1	4313.1	-287.1	102.8	1190.4	18.2
15	205.00	83.2	2.7	2643	2691	31.5	1.0	4230.1	-290.1	99.0	1134.9	18.0
16	218.00	83.4	2.5	2643	2691	31.6	.9	4146.9	-292.9	95.2	1080.4	17.8
17	231.00	85.1	1.4	2643	2691	32.2	.5	4063.4	-295.4	91.4	1027.0	17.6
18	244.00	86.8	.2	2643	2691	32.8	.1	3978.3	-296.7	87.6	974.8	17.3
19	257.00	88.5	-.9	2643	2691	33.5	-.3	3891.5	-297.0	83.7	923.6	17.1
20	270.00	90.2	-2.0	2643	2691	34.1	-.8	3802.9	-296.1	79.9	873.6	16.8
21	283.00	92.0	-3.2	2643	2691	34.8	-1.2	3712.7	-294.0	76.0	824.8	16.5
22	296.00	93.7	-4.3	2643	2691	35.4	-1.6	3620.7	-290.8	72.2	777.1	15.2
23	309.00	95.4	-5.5	2643	2691	36.1	-2.0	3527.1	-286.5	68.2	730.6	15.5
24	322.00	97.4	-6.4	2643	2691	36.8	-2.4	3431.7	-281.0	64.8	685.4	14.2
25	335.00	100.1	-6.8	2643	2691	37.9	-2.5	3334.3	-274.6	61.2	641.4	14.4
26	348.00	102.8	-7.3	2643	2691	38.9	-2.7	3234.2	-267.8	57.6	598.7	13.4
27	361.00	105.6	-7.7	2643	2691	39.9	-2.9	3131.4	-260.5	54.2	557.3	12.9
28	374.00	108.3	-8.1	2643	2691	41.0	-3.0	3025.8	-252.8	50.9	517.3	12.4
29	387.00	111.1	-8.5	2643	2691	42.0	-3.2	2917.5	-244.7	47.6	478.7	12.1
30	400.00	113.8	-9.0	2643	2691	43.0	-3.3	2806.4	-236.1	44.5	441.5	11.8
31	413.00	116.5	-9.4	2643	2691	44.1	-3.5	2692.6	-227.2	41.5	405.7	11.5
32	426.00	117.4	-9.2	2643	2691	44.4	-3.4	2576.1	-217.8	38.6	371.5	11.3
33	439.00	117.0	-8.7	2643	2691	44.3	-3.2	2458.7	-208.5	35.8	338.8	11.2
34	452.00	116.6	-8.1	2643	2691	44.1	-3.0	2341.7	-199.8	33.2	307.6	11.1
35	465.00	116.3	-7.5	2643	2691	44.0	-2.8	2225.1	-191.8	30.6	277.9	11.0
36	478.00	115.9	-7.0	2643	2691	43.8	-2.6	2108.8	-184.2	28.2	249.7	11.0
37	491.00	115.5	-6.4	2643	2691	43.7	-2.4	1992.9	-177.3	25.8	223.0	10.9
38	504.00	115.1	-5.8	2643	2691	43.6	-2.2	1877.5	-170.9	23.6	197.9	10.9
39	517.00	114.7	-5.3	2643	2691	43.4	-2.0	1762.3	-165.0	21.4	174.2	11.0
40	530.00	115.3	-5.3	2643	2691	43.6	-2.0	1647.6	-159.8	19.3	152.1	11.0
41	543.00	115.9	-5.4	2643	2691	43.8	-2.0	1532.3	-154.5	17.3	131.4	11.1
42	556.00	116.5	-5.5	2643	2691	44.1	-2.0	1416.4	-149.1	15.4	112.2	11.1
43	569.00	117.2	-5.6	2643	2691	44.3	-2.1	1299.9	-143.6	13.4	94.6	11.0
44	582.00	117.8	-5.6	2643	2691	44.6	-2.1	1182.7	-138.1	11.5	78.4	10.9
45	595.00	118.4	-5.7	2643	2691	44.8	-2.1	1064.9	-132.4	9.8	63.8	10.8
46	608.00	119.0	-5.8	2643	2691	45.0	-2.2	946.5	-126.7	8.1	50.8	10.8
47	621.00	118.7	-5.9	2643	2691	44.9	-2.2	827.4	-120.9	6.5	39.2	10.5
48	634.00	123.6	-15.6	2847	2599	43.4	-6.0	708.7	-115.0	5.0	29.2	10.5
49	648.00	119.2	-17.0	2847	2403	41.9	-7.1	585.1	-99.4	3.5	20.2	8.2
50	662.00	119.8	-22.5	2847	2203	42.1	-10.2	465.9	-82.5	2.2	12.8	8.8
51	676.00	121.3	-23.8	2847	2007	42.6	-11.8	346.1	-60.0	1.1	7.1	7.0
PENT	690.00	224.8	-36.2	5693	3733	39.5	-9.7	224.8	-36.2	.5	3.1	3.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 190 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	80.8	-43.6	5449	5023	14.8	-8.7	6697.8	-276.1	74.9	2586.3	-2.8
MEZZ	22.00	80.6	-13.8	2847	2898	28.3	-4.8	6617.0	-232.4	69.3	2439.8	-2.0
2	36.00	79.7	-12.1	2643	2691	30.1	-4.5	6536.3	-218.6	66.1	2347.8	-2.4
3	49.00	84.3	-11.5	2643	2691	31.9	-4.3	6456.7	-206.5	63.4	2263.3	-2.7
4	62.00	88.9	-10.8	2643	2691	33.6	-4.0	6372.4	-195.0	60.8	2179.9	-2.9
5	75.00	93.5	-10.1	2643	2691	35.4	-3.8	6283.5	-184.2	58.3	2097.6	-3.1
6	88.00	98.1	-9.4	2643	2691	37.1	-3.5	6190.0	-174.1	56.0	2016.6	-3.3
7	101.00	102.7	-8.7	2643	2691	38.9	-3.2	6091.9	-164.7	53.8	1936.7	-3.3
8	114.00	107.4	-8.1	2643	2691	40.6	-3.0	5989.1	-156.0	51.7	1858.2	-3.4
9	127.00	110.0	-7.3	2643	2691	41.6	-2.7	5881.8	-147.9	49.7	1781.1	-3.4
10	140.00	111.7	-6.6	2643	2691	42.3	-2.4	5771.8	-140.6	47.8	1705.3	-3.3
11	153.00	113.5	-5.8	2643	2691	42.9	-2.2	5660.0	-134.0	46.0	1631.0	-3.3
12	166.00	115.2	-5.1	2643	2691	43.6	-1.9	5546.6	-128.2	44.3	1558.2	-3.2
13	179.00	116.9	-4.3	2643	2691	44.2	-1.6	5431.3	-123.2	42.7	1486.8	-3.0
14	192.00	118.7	-3.5	2643	2691	44.9	-1.3	5314.4	-118.9	41.1	1416.9	-2.9
15	205.00	120.4	-2.8	2643	2691	45.6	-1.0	5195.7	-115.3	39.6	1348.6	-2.7
16	218.00	122.1	-2.0	2643	2691	46.2	-.8	5075.3	-112.6	38.1	1281.9	-2.5
17	231.00	122.9	-2.1	2643	2691	46.5	-.8	4953.2	-110.5	36.7	1216.7	-2.2
18	244.00	123.7	-2.3	2643	2691	46.8	-.8	4830.3	-108.4	35.3	1153.1	-1.9
19	257.00	124.5	-2.4	2643	2691	47.1	-.9	4706.5	-106.1	33.9	1091.1	-1.7
20	270.00	125.3	-2.5	2643	2691	47.4	-.9	4582.1	-103.7	32.5	1030.7	-1.5
21	283.00	126.0	-2.7	2643	2691	47.7	-1.0	4456.8	-101.2	31.2	972.0	-1.2
22	296.00	126.8	-2.8	2643	2691	48.0	-1.0	4330.8	-98.5	29.9	914.9	-1.0
23	309.00	127.6	-2.9	2643	2691	48.3	-1.1	4203.9	-95.7	28.6	859.4	-.8
24	322.00	128.5	-3.0	2643	2691	48.6	-1.1	4076.3	-92.8	27.4	805.6	-.6
25	335.00	129.5	-2.9	2643	2691	49.0	-1.1	3947.9	-89.7	26.2	753.4	-.4
26	348.00	130.5	-2.9	2643	2691	49.4	-1.1	3818.4	-86.8	25.1	702.9	-.2
27	361.00	131.5	-2.8	2643	2691	49.8	-1.0	3687.9	-83.9	23.9	654.1	.0
28	374.00	132.6	-2.7	2643	2691	50.2	-1.0	3556.3	-81.1	22.9	607.0	.3
29	387.00	133.6	-2.7	2643	2691	50.5	-1.0	3423.8	-78.4	21.8	561.7	.5
30	400.00	134.6	-2.6	2643	2691	50.9	-1.0	3290.1	-75.7	20.8	518.0	.8
31	413.00	135.7	-2.5	2643	2691	51.3	-.9	3155.5	-73.1	19.9	476.1	1.1
32	426.00	136.1	-2.1	2643	2691	51.5	-.8	3019.8	-70.5	18.9	436.0	1.4
33	439.00	136.1	-1.5	2643	2691	51.5	-.6	2883.7	-68.4	18.0	397.6	1.8
34	452.00	136.1	-.9	2643	2691	51.5	-.3	2747.6	-66.9	17.1	361.0	2.1
35	465.00	136.2	-.3	2643	2691	51.5	-.1	2611.4	-66.0	16.3	326.2	2.5
36	478.00	136.2	.3	2643	2691	51.5	.1	2475.3	-65.7	15.4	293.1	2.9
37	491.00	136.2	1.0	2643	2691	51.5	.4	2339.1	-66.0	14.6	261.8	3.3
38	504.00	136.2	1.6	2643	2691	51.5	.6	2202.9	-67.0	13.7	232.3	3.8
39	517.00	136.2	2.2	2643	2691	51.5	.8	2066.7	-68.6	12.8	204.6	4.2
40	530.00	136.3	2.1	2643	2691	51.5	.8	1930.5	-70.8	11.9	178.6	4.7
41	543.00	136.3	1.9	2643	2691	51.6	.7	1794.2	-72.9	11.0	154.4	5.2
42	556.00	136.3	1.8	2643	2691	51.6	.7	1657.9	-74.8	10.0	131.9	5.6
43	569.00	136.3	1.6	2643	2691	51.6	.6	1521.6	-76.6	9.0	111.3	6.0
44	582.00	136.4	1.4	2643	2691	51.6	.5	1385.3	-78.2	8.0	92.4	6.3
45	595.00	136.4	1.2	2643	2691	51.6	.5	1248.9	-79.6	7.0	75.2	6.6
46	608.00	136.4	1.1	2643	2691	51.6	.4	1112.5	-80.8	6.0	59.9	6.9
47	621.00	136.2	.5	2643	2691	51.5	.2	976.1	-81.9	4.9	46.3	7.1
48	634.00	145.1	-7.9	2847	2599	51.0	-3.1	839.9	-82.4	3.8	34.5	7.3
49	648.00	143.5	-16.1	2847	2403	50.4	-4.2	694.8	-74.5	2.7	23.8	6.6
50	662.00	144.4	-15.9	2847	2203	50.7	-7.2	551.3	-64.4	1.8	15.9	5.6
51	676.00	145.6	-17.8	2847	2007	51.2	-8.9	406.9	-48.4	1.0	8.3	4.3
PENT	690.00	261.3	-30.6	5693	3733	45.9	-8.2	261.3	-30.6	.4	3.7	2.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 200 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	79.5	-45.9	5449	5023	14.6	-9.1	6868.1	-93.9	-38.7	2704.0	-5.8
MEZZ	22.00	73.0	-22.8	2847	2898	25.6	-7.9	6788.6	-48.0	-40.2	2553.7	-5.0
2	36.00	72.4	-20.0	2643	2691	27.4	-7.4	6715.6	-25.2	-40.7	2459.2	-5.4
3	49.00	76.8	-18.9	2643	2691	29.1	-7.0	6643.2	-5.2	-40.9	2372.4	-5.7
4	62.00	81.2	-17.8	2643	2691	30.7	-6.6	6566.4	13.7	-40.9	2286.5	-5.9
5	75.00	85.6	-16.7	2643	2691	32.4	-6.2	6485.2	31.5	-40.6	2201.7	-6.2
6	88.00	90.0	-15.6	2643	2691	34.1	-5.8	6399.6	48.2	-40.1	2117.9	-6.3
7	101.00	94.5	-14.5	2643	2691	35.7	-5.4	6309.5	63.8	-39.3	2035.3	-6.5
8	114.00	98.9	-13.4	2643	2691	37.4	-5.0	6215.0	78.3	-38.4	1953.9	-6.5
9	127.00	102.5	-11.6	2643	2691	38.8	-4.3	6116.2	91.6	-37.3	1873.8	-6.6
10	140.00	105.8	-9.4	2643	2691	40.0	-3.5	6013.6	103.2	-36.0	1794.9	-6.6
11	153.00	109.2	-7.3	2643	2691	41.3	-2.7	5907.8	112.7	-34.6	1717.4	-6.5
12	166.00	112.5	-5.2	2643	2691	42.5	-1.9	5798.6	120.0	-33.1	1641.3	-6.5
13	179.00	115.8	-3.0	2643	2691	43.8	-1.1	5686.2	125.1	-31.5	1566.7	-6.3
14	192.00	119.1	-.9	2643	2691	45.0	-.3	5570.4	128.1	-29.9	1493.5	-6.2
15	205.00	122.4	1.3	2643	2691	46.3	.5	5451.3	129.0	-28.2	1421.9	-6.0
16	218.00	125.7	3.4	2643	2691	47.5	1.3	5328.9	127.8	-26.6	1351.8	-5.7
17	231.00	127.0	3.3	2643	2691	48.0	1.2	5203.2	124.3	-24.9	1283.3	-5.5
18	244.00	128.3	3.2	2643	2691	48.5	1.2	5076.2	121.0	-23.3	1216.5	-5.2
19	257.00	129.6	3.1	2643	2691	49.0	1.1	4948.0	117.8	-21.8	1151.4	-4.9
20	270.00	130.9	3.0	2643	2691	49.5	1.1	4818.4	114.8	-20.3	1087.9	-4.6
21	283.00	132.1	2.8	2643	2691	50.0	1.1	4687.5	111.8	-18.8	1026.1	-4.3
22	296.00	133.4	2.7	2643	2691	50.5	1.0	4555.4	109.0	-17.3	966.0	-4.0
23	309.00	134.7	2.6	2643	2691	51.0	1.0	4422.0	106.3	-15.9	907.7	-3.7
24	322.00	135.8	2.6	2643	2691	51.4	1.0	4287.3	103.7	-14.6	851.1	-3.4
25	335.00	136.4	3.0	2643	2691	51.6	1.1	4151.5	101.1	-13.2	796.2	-3.1
26	348.00	137.0	3.4	2643	2691	51.8	1.2	4015.0	98.1	-12.0	743.1	-2.8
27	361.00	137.6	3.7	2643	2691	52.1	1.4	3878.0	94.7	-10.7	691.8	-2.4
28	374.00	138.3	4.1	2643	2691	52.3	1.5	3740.4	91.0	-9.5	642.3	-2.1
29	387.00	138.9	4.5	2643	2691	52.5	1.7	3602.1	86.9	-8.3	594.6	-1.8
30	400.00	139.5	4.9	2643	2691	52.8	1.8	3463.2	82.4	-7.2	548.6	-1.4
31	413.00	140.1	5.2	2643	2691	53.0	1.9	3323.7	77.5	-6.2	504.5	-1.1
32	426.00	140.6	5.3	2643	2691	53.2	2.0	3183.6	72.3	-5.2	462.2	-.7
33	439.00	140.9	5.2	2643	2691	53.3	1.9	3043.0	67.0	-4.3	421.8	-.4
34	452.00	141.3	5.1	2643	2691	53.5	1.9	2902.1	61.8	-3.5	383.1	-.0
35	465.00	141.7	4.9	2643	2691	53.6	1.8	2760.8	56.8	-2.7	346.3	.3
36	478.00	142.0	4.8	2643	2691	53.7	1.8	2619.1	51.8	-2.0	311.3	.7
37	491.00	142.4	4.7	2643	2691	53.9	1.7	2477.1	47.0	-1.4	278.2	1.0
38	504.00	142.8	4.6	2643	2691	54.0	1.7	2334.7	42.3	-.8	246.9	1.4
39	517.00	143.1	4.4	2643	2691	54.1	1.7	2191.9	37.8	-.3	217.5	1.7
40	530.00	143.4	4.8	2643	2691	54.2	1.8	2048.8	33.3	.2	189.9	2.1
41	543.00	143.6	5.3	2643	2691	54.3	2.0	1905.4	28.5	.6	164.2	2.4
42	556.00	143.9	5.7	2643	2691	54.4	2.1	1761.8	23.2	.9	140.4	2.8
43	569.00	144.1	6.1	2643	2691	54.5	2.3	1617.9	17.5	1.2	118.4	3.1
44	582.00	144.4	6.5	2643	2691	54.6	2.4	1473.8	11.4	1.4	98.3	3.4
45	595.00	144.6	7.0	2643	2691	54.7	2.6	1329.4	4.9	1.5	80.1	3.6
46	608.00	144.8	7.4	2643	2691	54.8	2.7	1184.8	-2.1	1.5	63.8	3.9
47	621.00	144.8	7.6	2643	2691	54.8	2.8	1040.0	-9.5	1.4	49.3	4.1
48	634.00	154.9	3.5	2847	2599	54.4	1.4	895.2	-17.1	1.3	36.7	4.3
49	648.00	153.9	1.4	2847	2403	54.0	.6	740.2	-20.6	1.0	25.3	4.0
50	662.00	153.9	-2.9	2847	2203	54.1	-1.3	586.4	-22.0	.7	16.0	3.5
51	676.00	154.1	-5.6	2847	2007	54.1	-2.8	432.5	-19.1	.4	8.9	2.8
PENT	690.00	278.4	-13.5	5693	3733	48.9	-3.6	278.4	-13.5	.2	3.9	1.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 210 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	100.7	-40.3	5449	5023	18.5	-8.0	6502.0	-155.2	-2.3	2567.9	4.0
MEZZ	22.00	73.6	-21.7	2847	2898	25.8	-7.5	6401.3	-114.9	-5.3	2426.0	4.0
2	36.00	71.8	-18.4	2643	2691	27.1	-6.8	6327.7	-93.2	-6.8	2336.8	4.0
3	49.00	75.1	-16.6	2643	2691	28.4	-6.2	6256.0	-74.9	-7.8	2255.1	3.8
4	62.00	78.4	-14.9	2643	2691	29.7	-5.5	6180.9	-58.3	-8.7	2174.2	3.6
5	75.00	81.7	-13.2	2643	2691	30.9	-4.9	6102.5	-43.4	-9.4	2094.4	3.3
6	88.00	85.0	-11.5	2643	2691	32.2	-4.3	6020.8	-30.2	-9.9	2015.6	3.1
7	101.00	88.4	-9.7	2643	2691	33.4	-3.6	5935.7	-18.7	-10.2	1937.9	2.9
8	114.00	91.7	-8.0	2643	2691	34.7	-3.0	5847.4	-9.0	-10.3	1861.3	2.7
9	127.00	94.2	-6.8	2643	2691	35.6	-2.5	5755.7	-1.0	-10.4	1785.8	2.5
10	140.00	96.4	-5.8	2643	2691	36.5	-2.2	5661.4	5.8	-10.4	1711.6	2.3
11	153.00	98.6	-4.8	2643	2691	37.3	-1.8	5565.0	11.6	-10.3	1638.7	2.1
12	166.00	100.8	-3.9	2643	2691	38.1	-1.4	5466.4	16.4	-10.1	1567.0	2.0
13	179.00	103.0	-2.9	2643	2691	38.9	-1.1	5365.7	20.3	-9.8	1496.5	1.9
14	192.00	105.1	-1.9	2643	2691	39.8	-.7	5262.7	23.2	-9.6	1427.5	1.9
15	205.00	107.3	-1.0	2643	2691	40.6	-.4	5157.6	25.1	-9.3	1359.7	1.9
16	218.00	109.5	.0	2643	2691	41.4	.0	5050.2	26.1	-8.9	1293.4	1.9
17	231.00	112.2	.1	2643	2691	42.4	.0	4940.7	26.1	-8.6	1228.4	1.9
18	244.00	114.8	.2	2643	2691	43.4	.1	4828.6	26.0	-8.2	1164.9	1.9
19	257.00	117.5	.2	2643	2691	44.4	.1	4713.8	25.8	-7.9	1102.9	2.0
20	270.00	120.1	.3	2643	2691	45.5	.1	4596.3	25.6	-7.6	1042.4	2.0
21	283.00	122.8	.4	2643	2691	46.5	.1	4476.1	25.3	-7.2	983.4	2.0
22	296.00	125.5	.4	2643	2691	47.5	.2	4353.3	24.9	-6.9	926.0	1.9
23	309.00	128.1	.5	2643	2691	48.5	.2	4227.9	24.4	-6.6	870.3	1.9
24	322.00	130.1	.6	2643	2691	49.2	.2	4099.7	23.9	-6.3	816.1	1.8
25	335.00	130.2	.6	2643	2691	49.3	.2	3969.7	23.3	-6.0	763.7	1.8
26	348.00	130.3	.6	2643	2691	49.3	.2	3839.5	22.8	-5.7	712.9	1.7
27	361.00	130.5	.6	2643	2691	49.4	.2	3709.2	22.2	-5.4	663.8	1.7
28	374.00	130.5	.6	2643	2691	49.4	.2	3578.7	21.6	-5.1	616.5	1.7
29	387.00	130.8	.6	2643	2691	49.5	.2	3448.0	21.0	-4.8	570.8	1.7
30	400.00	130.9	.6	2643	2691	49.5	.2	3317.2	20.4	-4.5	526.8	1.6
31	413.00	131.1	.6	2643	2691	49.6	.2	3186.3	19.8	-4.3	484.6	1.6
32	426.00	131.8	.4	2643	2691	49.9	.2	3055.3	19.2	-4.0	444.0	1.6
33	439.00	132.9	.2	2643	2691	50.3	.1	2923.5	18.7	-3.8	405.1	1.7
34	452.00	134.0	-.1	2643	2691	50.7	-.0	2790.6	18.6	-3.5	368.0	1.7
35	465.00	135.0	-.4	2643	2691	51.1	-.2	2656.6	18.7	-3.3	332.6	1.7
36	478.00	136.1	-.7	2643	2691	51.5	-.3	2521.6	19.1	-3.1	298.9	1.7
37	491.00	137.2	-1.0	2643	2691	51.9	-.4	2385.5	19.8	-2.8	267.0	1.8
38	504.00	138.3	-1.3	2643	2691	52.3	-.5	2248.2	20.8	-2.5	236.9	1.8
39	517.00	139.4	-1.6	2643	2691	52.7	-.6	2109.9	22.0	-2.3	208.6	1.9
40	530.00	139.4	-.8	2643	2691	52.7	-.3	1970.5	23.6	-2.0	182.1	2.0
41	543.00	139.3	.1	2643	2691	52.7	.0	1831.1	24.4	-1.7	157.3	2.0
42	556.00	139.1	1.0	2643	2691	52.6	.4	1691.9	24.3	-1.3	134.4	2.1
43	569.00	139.0	1.8	2643	2691	52.6	.7	1552.8	23.3	-1.0	113.4	2.2
44	582.00	138.9	2.7	2643	2691	52.5	1.0	1413.8	21.5	-.7	94.1	2.2
45	595.00	138.7	3.6	2643	2691	52.5	1.3	1274.9	18.8	-.5	76.6	2.2
46	608.00	138.6	4.5	2643	2691	52.4	1.7	1136.2	15.2	-.3	60.9	2.2
47	621.00	138.6	5.1	2643	2691	52.5	1.9	997.5	10.7	-.1	47.1	2.2
48	634.00	150.0	3.9	2847	2599	52.7	1.5	858.9	5.6	.1	35.0	2.2
49	648.00	150.6	2.6	2847	2403	52.9	1.1	708.9	1.7	.1	24.0	2.2
50	662.00	149.1	1.2	2847	2203	52.4	.5	558.3	-1.8	.1	15.1	2.2
51	676.00	147.1	.1	2847	2007	51.7	.0	409.3	-2.0	.1	8.1	1.7
PENT	690.00	262.1	-2.1	5693	3733	46.0	-.6	262.1	-2.1	.0	3.7	1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	118.9	-46.9	5449	5023	21.8	-9.3	6243.1	5.9	-68.4	2459.7	4.7
MEZZ	22.00	79.8	-24.3	2847	2898	28.0	-8.4	6124.3	52.9	-67.7	2323.7	4.9
2	36.00	75.7	-19.7	2643	2691	28.6	-7.3	6044.5	77.2	-66.8	2238.5	4.8
3	49.00	77.1	-17.0	2643	2691	29.2	-6.3	5968.8	96.9	-65.7	2160.4	4.7
4	62.00	78.6	-14.2	2643	2691	29.7	-5.3	5891.7	113.8	-64.3	2083.3	4.6
5	75.00	80.1	-11.5	2643	2691	30.3	-4.3	5813.0	128.0	-62.8	2007.2	4.5
6	88.00	81.6	-8.7	2643	2691	30.9	-3.2	5732.9	139.5	-61.0	1932.2	4.4
7	101.00	83.1	-6.0	2643	2691	31.4	-2.2	5651.4	148.2	-59.1	1858.2	4.3
8	114.00	84.5	-3.2	2643	2691	32.0	-1.2	5568.3	154.2	-57.2	1785.2	4.2
9	127.00	86.5	-1.7	2643	2691	32.7	-.6	5483.7	157.4	-55.2	1713.4	4.1
10	140.00	88.7	-.8	2643	2691	33.6	-.3	5397.2	159.1	-53.1	1642.7	4.0
11	153.00	90.9	.1	2643	2691	34.4	.0	5308.5	159.9	-51.0	1573.1	3.9
12	166.00	93.1	1.0	2643	2691	35.2	.4	5217.5	159.9	-48.9	1504.7	3.8
13	179.00	95.4	1.8	2643	2691	36.1	.7	5124.4	158.9	-46.9	1437.4	3.7
14	192.00	97.6	2.7	2643	2691	36.9	1.0	5029.0	157.1	-44.8	1371.5	3.6
15	205.00	99.8	3.6	2643	2691	37.7	1.3	4931.5	154.4	-42.8	1306.7	3.5
16	218.00	102.0	4.5	2643	2691	38.6	1.7	4831.7	150.7	-40.8	1243.2	3.4
17	231.00	104.5	4.1	2643	2691	39.5	1.5	4729.7	146.2	-38.9	1181.1	3.2
18	244.00	106.9	3.7	2643	2691	40.5	1.4	4625.3	142.1	-37.0	1120.3	3.1
19	257.00	109.4	3.3	2643	2691	41.4	1.2	4518.3	138.4	-35.2	1060.9	3.0
20	270.00	111.9	2.9	2643	2691	42.3	1.1	4408.9	135.1	-33.4	1002.8	2.8
21	283.00	114.4	2.5	2643	2691	43.3	.9	4297.0	132.2	-31.7	946.2	2.7
22	296.00	116.8	2.1	2643	2691	44.2	.8	4182.7	129.7	-30.0	891.1	2.5
23	309.00	119.3	1.7	2643	2691	45.1	.6	4065.8	127.6	-28.3	837.5	2.4
24	322.00	121.4	1.4	2643	2691	45.9	.5	3946.5	126.0	-26.6	785.4	2.2
25	335.00	122.5	1.7	2643	2691	46.4	.6	3825.1	124.5	-25.0	734.9	2.1
26	348.00	123.7	2.0	2643	2691	46.8	.7	3702.6	122.8	-23.4	686.0	1.9
27	361.00	124.8	2.2	2643	2691	47.2	.8	3578.9	120.9	-21.8	638.7	1.8
28	374.00	126.0	2.5	2643	2691	47.7	.9	3454.0	118.6	-20.3	592.9	1.7
29	387.00	127.1	2.8	2643	2691	48.1	1.0	3328.1	116.1	-18.7	548.9	1.7
30	400.00	128.3	3.0	2643	2691	48.5	1.1	3200.9	113.4	-17.3	506.4	1.6
31	413.00	129.4	3.3	2643	2691	49.0	1.2	3072.7	110.4	-15.8	465.6	1.6
32	426.00	130.1	3.6	2643	2691	49.2	1.3	2943.3	107.1	-14.4	426.5	1.6
33	439.00	130.5	4.0	2643	2691	49.4	1.5	2813.2	103.5	-13.0	389.1	1.6
34	452.00	130.9	4.3	2643	2691	49.5	1.6	2682.7	99.5	-11.7	353.4	1.6
35	465.00	131.3	4.7	2643	2691	49.7	1.7	2551.8	95.2	-10.4	319.4	1.7
36	478.00	131.7	5.0	2643	2691	49.8	1.9	2420.6	90.5	-9.2	287.0	1.7
37	491.00	132.1	5.4	2643	2691	50.0	2.0	2288.9	85.5	-8.1	256.4	1.7
38	504.00	132.5	5.7	2643	2691	50.1	2.1	2156.8	80.1	-7.0	227.5	1.8
39	517.00	132.9	6.1	2643	2691	50.3	2.3	2024.3	74.4	-6.0	200.4	1.9
40	530.00	133.0	6.2	2643	2691	50.3	2.3	1891.4	68.3	-5.1	174.9	1.9
41	543.00	133.1	6.2	2643	2691	50.4	2.3	1758.4	62.1	-4.2	151.2	2.0
42	556.00	133.2	6.2	2643	2691	50.4	2.3	1625.3	55.7	-3.5	129.2	2.0
43	569.00	133.4	6.2	2643	2691	50.5	2.3	1492.1	49.2	-2.8	108.9	2.1
44	582.00	133.5	6.3	2643	2691	50.5	2.3	1358.7	43.5	-2.2	90.4	2.1
45	595.00	133.6	6.3	2643	2691	50.5	2.3	1225.2	37.2	-1.6	73.6	2.1
46	608.00	133.7	6.3	2643	2691	50.6	2.3	1091.6	30.9	-1.2	58.5	2.1
47	621.00	133.6	6.3	2643	2691	50.6	2.3	957.9	24.6	-.8	45.2	2.0
48	634.00	143.1	5.4	2847	2599	50.3	2.1	824.3	18.3	-.6	33.6	2.0
49	648.00	142.3	4.1	2847	2403	50.0	1.7	681.1	12.9	-.3	23.1	2.0
50	662.00	143.5	3.5	2847	2203	50.4	1.6	538.8	8.8	-.2	14.6	1.9
51	676.00	145.0	2.7	2847	2007	50.9	1.3	395.3	5.3	-.1	8.0	1.6
PENT	690.00	250.3	2.6	5693	3733	44.0	.7	250.3	2.6	-.0	3.5	1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	99.6	-48.9	5449	5023	18.3	-9.7	5447.6	-292.0	68.5	2150.3	13.0
MEZZ	22.00	69.7	-26.2	2847	2898	24.5	-9.0	5348.0	-243.1	62.6	2031.5	14.6
2	36.00	66.1	-21.1	2643	2691	25.0	-7.8	5278.4	-216.9	59.4	1957.1	14.4
3	49.00	67.4	-18.0	2643	2691	25.5	-6.7	5212.3	-195.8	56.7	1888.9	14.2
4	62.00	68.7	-14.9	2643	2691	26.0	-5.5	5144.9	-177.8	54.3	1821.6	14.0
5	75.00	70.1	-11.8	2643	2691	26.5	-4.4	5076.1	-162.9	52.1	1755.2	13.8
6	88.00	71.4	-8.7	2643	2691	27.0	-3.2	5006.0	-151.1	50.0	1689.7	13.6
7	101.00	72.7	-5.6	2643	2691	27.5	-2.1	4934.6	-142.4	48.1	1625.0	13.4
8	114.00	74.1	-2.5	2643	2691	28.0	-.9	4861.9	-136.8	46.3	1561.4	13.1
9	127.00	76.0	-1.0	2643	2691	28.7	-.4	4787.8	-134.2	44.5	1498.6	12.9
10	140.00	78.2	-.3	2643	2691	29.6	-.1	4711.8	-133.2	42.8	1436.9	12.6
11	153.00	80.3	.5	2643	2691	30.4	.2	4633.7	-132.9	41.1	1376.1	12.4
12	166.00	82.5	1.2	2643	2691	31.2	.5	4553.4	-133.4	39.3	1316.4	12.1
13	179.00	84.7	2.0	2643	2691	32.0	.7	4470.9	-134.6	37.6	1257.8	11.8
14	192.00	86.8	2.8	2643	2691	32.9	1.0	4386.2	-136.6	35.8	1200.2	11.6
15	205.00	89.0	3.5	2643	2691	33.7	1.3	4299.4	-139.4	34.0	1143.7	11.3
16	218.00	91.2	4.3	2643	2691	34.5	1.6	4210.3	-142.9	32.2	1088.4	11.0
17	231.00	93.1	3.3	2643	2691	35.2	1.2	4119.2	-147.2	30.3	1034.3	10.7
18	244.00	95.1	2.2	2643	2691	36.0	.8	4026.0	-150.5	28.4	981.3	10.4
19	257.00	97.1	1.2	2643	2691	36.7	.4	3930.9	-152.7	26.4	929.6	10.0
20	270.00	99.0	.2	2643	2691	37.5	.1	3833.8	-153.9	24.4	879.2	9.7
21	283.00	101.0	-.9	2643	2691	38.2	-.3	3734.8	-154.1	22.4	830.0	9.3
22	296.00	102.9	-1.9	2643	2691	38.9	-.7	3633.8	-153.2	20.4	782.1	8.9
23	309.00	104.9	-2.9	2643	2691	39.7	-1.1	3530.9	-151.3	18.4	735.5	8.5
24	322.00	106.4	-3.9	2643	2691	40.2	-1.4	3426.0	-148.4	16.5	690.3	8.0
25	335.00	106.6	-4.5	2643	2691	40.3	-1.7	3319.6	-144.5	14.6	646.4	7.6
26	348.00	106.9	-5.1	2643	2691	40.4	-1.9	3213.0	-140.0	12.7	604.0	7.1
27	361.00	107.2	-5.7	2643	2691	40.5	-2.1	3106.1	-134.9	11.0	562.9	6.6
28	374.00	107.5	-6.4	2643	2691	40.7	-2.4	2998.9	-129.2	9.2	523.2	6.1
29	387.00	107.7	-7.0	2643	2691	40.8	-2.6	2891.4	-122.8	7.6	484.9	5.5
30	400.00	108.0	-7.6	2643	2691	40.9	-2.8	2783.7	-115.9	6.0	448.0	5.0
31	413.00	108.3	-8.2	2643	2691	41.0	-3.1	2675.7	-108.3	4.6	412.6	4.4
32	426.00	108.8	-8.7	2643	2691	41.2	-3.2	2567.4	-100.0	3.2	378.5	3.8
33	439.00	109.4	-9.1	2643	2691	41.4	-3.4	2458.6	-91.3	2.0	345.8	3.2
34	452.00	110.1	-9.5	2643	2691	41.7	-3.5	2349.2	-82.2	.9	314.6	2.6
35	465.00	110.8	-9.9	2643	2691	41.9	-3.7	2239.1	-72.7	-.1	284.7	2.0
36	478.00	111.4	-10.2	2643	2691	42.2	-3.8	2128.3	-62.9	-1.0	256.3	1.5
37	491.00	112.1	-10.6	2643	2691	42.4	-3.9	2016.8	-52.7	-1.8	229.4	1.0
38	504.00	112.8	-11.0	2643	2691	42.7	-4.1	1904.7	-42.0	-2.4	203.9	.5
39	517.00	113.4	-11.4	2643	2691	42.9	-4.2	1792.0	-31.0	-2.9	179.9	.0
40	530.00	114.1	-10.5	2643	2691	43.2	-3.9	1678.5	-19.6	-3.2	157.3	-.4
41	543.00	114.7	-9.5	2643	2691	43.4	-3.5	1564.5	-9.1	-3.4	136.2	-.9
42	556.00	115.3	-8.5	2643	2691	43.6	-3.1	1449.8	.3	-3.4	116.6	-1.3
43	569.00	115.9	-7.4	2643	2691	43.9	-2.8	1334.5	8.8	-3.4	98.6	-1.7
44	582.00	116.6	-6.4	2643	2691	44.1	-2.4	1218.5	16.2	-3.2	82.0	-2.1
45	595.00	117.2	-5.4	2643	2691	44.3	-2.0	1102.0	22.7	-3.0	66.9	-2.5
46	608.00	117.8	-4.4	2643	2691	44.6	-1.6	984.8	28.1	-2.6	53.3	-2.9
47	621.00	118.4	-3.5	2643	2691	44.8	-1.3	867.0	32.5	-2.2	41.3	-3.3
48	634.00	128.1	2.1	2847	2599	45.0	.8	748.6	35.9	-1.8	30.8	-3.6
49	648.00	128.6	2.8	2847	2403	45.2	1.2	620.5	33.9	-1.3	21.2	-3.8
50	662.00	129.4	7.5	2847	2203	45.4	3.4	491.9	31.1	-.9	13.4	-2.5
51	676.00	130.1	9.2	2847	2007	45.7	4.6	362.6	23.6	-.5	7.4	-1.6
PENT	690.00	232.4	14.4	5693	3733	40.8	3.9	232.4	14.4	-.2	3.3	-.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	94.6	-47.6	5449	5023	17.4	-9.5	5085.0	-636.1	182.8	1959.3	15.0
ME22	22.00	77.7	-27.5	2847	2898	27.3	-9.5	4990.4	-588.5	169.3	1848.4	17.5
2	36.00	73.0	-23.1	2643	2691	27.6	-8.6	4912.7	-561.1	161.3	1779.1	17.4
3	49.00	73.7	-20.8	2643	2691	27.9	-7.7	4839.7	-537.9	154.1	1715.7	17.3
4	62.00	74.5	-18.5	2643	2691	28.2	-6.9	4766.0	-517.1	147.3	1653.3	17.3
5	75.00	75.2	-16.2	2643	2691	28.4	-6.0	4691.5	-498.7	140.7	1591.8	17.2
6	88.00	75.9	-13.8	2643	2691	28.7	-5.1	4616.3	-482.5	134.3	1531.3	17.1
7	101.00	76.7	-11.5	2643	2691	29.0	-4.3	4540.4	-468.7	128.1	1471.8	17.0
8	114.00	77.4	-9.2	2643	2691	29.3	-3.4	4463.7	-457.1	122.1	1413.3	16.9
9	127.00	78.4	-8.1	2643	2691	29.7	-3.0	4386.3	-447.9	116.2	1355.7	16.8
10	140.00	79.5	-7.5	2643	2691	30.1	-2.8	4307.9	-439.9	110.4	1299.2	16.6
11	153.00	80.6	-6.9	2643	2691	30.5	-2.6	4228.4	-432.4	104.8	1243.8	16.4
12	166.00	81.6	-6.3	2643	2691	30.9	-2.4	4147.8	-425.4	99.2	1189.3	16.2
13	179.00	82.7	-5.8	2643	2691	31.3	-2.1	4066.2	-419.1	93.7	1135.9	15.9
14	192.00	83.8	-5.2	2643	2691	31.7	-1.9	3983.4	-413.3	88.3	1083.6	15.5
15	205.00	84.9	-4.6	2643	2691	32.1	-1.7	3899.6	-408.2	82.9	1032.4	15.1
16	218.00	86.0	-4.0	2643	2691	32.5	-1.5	3814.8	-403.6	77.7	982.2	14.7
17	231.00	87.5	-5.3	2643	2691	33.1	-2.0	3728.8	-399.5	72.5	933.2	14.2
18	244.00	88.9	-6.7	2643	2691	33.6	-2.5	3641.4	-394.2	67.3	885.3	13.7
19	257.00	90.4	-8.0	2643	2691	34.2	-3.0	3552.4	-387.5	62.2	838.5	13.2
20	270.00	91.9	-9.4	2643	2691	34.8	-3.5	3462.0	-379.5	57.2	792.9	12.6
21	283.00	93.4	-10.7	2643	2691	35.3	-4.0	3370.0	-370.1	52.4	748.5	12.1
22	296.00	94.9	-12.1	2643	2691	35.9	-4.5	3276.6	-359.4	47.6	705.3	11.5
23	309.00	96.4	-13.4	2643	2691	36.5	-5.0	3181.7	-347.3	43.0	663.3	10.8
24	322.00	97.5	-14.5	2643	2691	36.9	-5.4	3085.3	-333.9	38.6	622.6	10.2
25	335.00	97.5	-14.9	2643	2691	36.9	-5.5	2987.8	-319.4	34.3	583.1	9.5
26	348.00	97.5	-15.3	2643	2691	36.9	-5.7	2890.3	-304.5	30.3	544.9	8.8
27	361.00	97.5	-15.7	2643	2691	36.9	-5.9	2792.8	-289.2	26.4	508.0	8.1
28	374.00	97.5	-16.2	2643	2691	36.9	-6.0	2695.4	-273.5	22.8	472.3	7.4
29	387.00	97.5	-16.6	2643	2691	36.9	-6.2	2597.9	-257.3	19.3	437.9	6.6
30	400.00	97.5	-17.0	2643	2691	36.9	-6.3	2500.4	-240.7	16.1	404.8	5.9
31	413.00	97.5	-17.4	2643	2691	36.9	-6.5	2402.9	-223.7	13.1	372.9	5.1
32	426.00	97.7	-17.8	2643	2691	37.0	-6.6	2305.5	-206.3	10.3	342.3	4.3
33	439.00	98.0	-18.0	2643	2691	37.1	-6.7	2207.8	-188.5	7.7	312.9	3.5
34	452.00	98.4	-18.2	2643	2691	37.2	-6.8	2109.7	-170.5	5.4	284.9	2.8
35	465.00	98.7	-18.5	2643	2691	37.4	-6.9	2011.3	-152.3	3.3	258.1	2.0
36	478.00	99.1	-18.7	2643	2691	37.5	-7.0	1912.6	-133.8	1.4	232.6	1.3
37	491.00	99.5	-19.0	2643	2691	37.6	-7.1	1813.5	-115.0	-.2	208.4	.6
38	504.00	99.8	-19.2	2643	2691	37.8	-7.1	1714.0	-96.0	-1.6	185.4	-.1
39	517.00	100.2	-19.5	2643	2691	37.9	-7.2	1614.2	-76.8	-2.7	163.8	-.8
40	530.00	100.9	-18.4	2643	2691	38.2	-6.8	1514.1	-57.3	-3.6	143.5	-1.4
41	543.00	101.6	-17.2	2643	2691	38.4	-6.4	1413.2	-38.9	-4.2	124.4	-2.1
42	556.00	102.4	-16.0	2643	2691	38.7	-6.0	1311.6	-21.6	-4.6	106.7	-2.7
43	569.00	103.1	-14.9	2643	2691	39.0	-5.5	1209.2	-5.6	-4.8	90.3	-3.2
44	582.00	103.9	-13.7	2643	2691	39.3	-5.1	1106.1	9.3	-4.7	75.3	-3.8
45	595.00	104.6	-12.5	2643	2691	39.6	-4.6	1002.2	22.9	-4.5	61.6	-4.3
46	608.00	105.4	-11.3	2643	2691	39.9	-4.2	897.6	35.4	-4.1	49.2	-4.7
47	621.00	105.9	-9.7	2643	2691	40.1	-3.6	792.3	46.7	-3.6	38.3	-5.2
48	634.00	114.1	.9	2847	2599	40.1	.3	686.3	56.3	-2.9	28.6	-5.5
49	648.00	114.1	4.6	2847	2403	40.1	1.9	572.2	55.5	-2.2	19.8	-4.9
50	662.00	116.9	11.8	2847	2203	41.1	5.4	458.1	50.9	-1.4	12.6	-4.0
51	676.00	120.2	14.5	2847	2007	42.2	7.2	341.2	39.1	-.8	7.0	-2.7
PENT	690.00	221.0	24.6	5693	3733	38.8	6.6	221.0	24.6	-.3	3.1	-1.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 250 CONFIGURATION A REFERENCE PRESSURE 45.0 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
SIRT	0.00	84.5	-40.2	5449	5023	15.5	-8.0	3965.2	-873.5	292.3	1583.2	18.2
MEZZ	22.00	52.4	-19.5	2847	2898	18.4	-6.7	3880.7	-833.3	273.5	1496.9	19.2
2	36.00	49.5	-17.0	2643	2691	18.7	-6.3	3828.2	-813.8	262.0	1442.9	19.2
3	49.00	50.2	-15.9	2643	2691	19.0	-5.9	3778.7	-796.9	251.5	1393.4	19.2
4	62.00	51.0	-14.8	2643	2691	19.3	-5.5	3728.5	-781.0	241.3	1344.6	19.1
5	75.00	51.7	-13.7	2643	2691	19.6	-5.1	3677.6	-766.2	231.2	1296.5	19.0
6	88.00	52.4	-12.6	2643	2691	19.8	-4.7	3625.9	-752.5	221.3	1249.0	18.9
7	101.00	53.2	-11.5	2643	2691	20.1	-4.3	3573.4	-739.8	211.6	1202.2	18.7
8	114.00	53.9	-10.5	2643	2691	20.4	-3.9	3520.2	-728.3	202.1	1156.1	18.4
9	127.00	54.9	-10.2	2643	2691	20.8	-3.8	3466.3	-717.8	192.7	1110.7	18.1
10	140.00	55.9	-10.2	2643	2691	21.2	-3.8	3411.4	-707.7	183.4	1066.0	17.8
11	153.00	57.0	-10.3	2643	2691	21.6	-3.8	3355.5	-697.5	174.3	1022.0	17.5
12	166.00	58.0	-10.3	2643	2691	22.0	-3.8	3298.5	-687.2	165.3	978.8	17.2
13	179.00	59.1	-10.4	2643	2691	22.4	-3.9	3240.4	-676.8	156.4	936.3	16.8
14	192.00	60.1	-10.5	2643	2691	22.7	-3.9	3181.4	-666.5	147.7	894.5	16.4
15	205.00	61.2	-10.5	2643	2691	23.1	-3.9	3121.2	-656.0	139.1	853.6	16.0
16	218.00	62.2	-10.6	2643	2691	23.5	-3.9	3060.0	-645.5	130.6	813.4	15.6
17	231.00	63.8	-12.1	2643	2691	24.1	-4.5	2997.8	-634.9	122.3	774.0	15.2
18	244.00	65.4	-13.7	2643	2691	24.8	-5.1	2934.0	-622.8	114.1	735.5	14.7
19	257.00	67.0	-15.3	2643	2691	25.4	-5.7	2868.5	-609.1	106.1	697.7	14.1
20	270.00	68.6	-16.8	2643	2691	26.0	-6.3	2801.5	-593.8	98.3	660.9	13.5
21	283.00	70.2	-18.4	2643	2691	26.6	-6.8	2732.9	-577.0	90.7	624.9	12.8
22	296.00	71.8	-20.0	2643	2691	27.2	-7.4	2662.6	-558.6	83.3	589.8	12.1
23	309.00	73.5	-21.5	2643	2691	27.8	-8.0	2590.8	-538.6	76.2	555.7	11.2
24	322.00	74.5	-22.6	2643	2691	28.2	-8.4	2517.3	-517.1	69.3	522.5	10.2
25	335.00	74.4	-22.7	2643	2691	28.2	-8.4	2442.8	-494.5	62.8	490.3	9.5
26	348.00	74.3	-22.7	2643	2691	28.1	-8.4	2368.3	-471.8	56.5	459.0	8.7
27	361.00	74.2	-22.7	2643	2691	28.1	-8.4	2294.0	-449.1	50.5	428.7	8.7
28	374.00	74.0	-22.7	2643	2691	28.0	-8.4	2219.9	-426.5	44.8	399.3	6.9
29	387.00	73.9	-22.7	2643	2691	28.0	-8.4	2145.8	-403.8	39.4	371.0	6.1
30	400.00	73.8	-22.7	2643	2691	27.9	-8.4	2071.9	-381.1	34.3	343.5	5.5
31	413.00	73.7	-22.7	2643	2691	27.9	-8.4	1998.1	-358.4	29.5	317.1	4.3
32	426.00	74.3	-23.1	2643	2691	28.1	-8.6	1924.4	-335.7	25.0	291.6	3.2
33	439.00	75.5	-23.8	2643	2691	28.6	-8.8	1850.1	-312.6	20.8	267.1	2.1
34	452.00	76.7	-24.5	2643	2691	29.0	-9.1	1774.6	-288.8	16.9	243.5	1.1
35	465.00	77.9	-25.1	2643	2691	29.5	-9.3	1697.9	-264.3	13.3	220.9	.1
36	478.00	79.1	-25.8	2643	2691	29.9	-9.6	1620.0	-239.2	10.0	199.4	-.5
37	491.00	80.2	-26.5	2643	2691	30.4	-9.8	1541.0	-213.4	7.1	178.8	-.8
38	504.00	81.4	-27.1	2643	2691	30.8	-10.1	1460.8	-186.9	4.5	159.3	-1.1
39	517.00	82.6	-27.8	2643	2691	31.2	-10.3	1379.3	-159.8	2.2	140.8	-1.9
40	530.00	83.9	-26.9	2643	2691	31.7	-10.0	1296.8	-131.9	.3	123.4	-2.8
41	543.00	85.2	-25.8	2643	2691	32.2	-9.6	1212.9	-105.0	-1.2	107.1	-3.6
42	556.00	86.5	-24.8	2643	2691	32.7	-9.2	1127.7	-79.2	-2.4	91.9	-4.4
43	569.00	87.8	-23.7	2643	2691	33.2	-8.8	1041.2	-54.4	-3.3	77.8	-5.1
44	582.00	89.1	-22.7	2643	2691	33.7	-8.4	953.4	-30.7	-3.9	64.9	-5.9
45	595.00	90.4	-21.6	2643	2691	34.2	-8.0	864.2	-8.0	-4.1	53.0	-6.5
46	608.00	91.7	-20.5	2643	2691	34.7	-7.6	773.8	13.6	-4.1	42.0	-7.2
47	621.00	92.5	-19.0	2643	2691	35.0	-7.0	682.1	34.2	-3.8	32.9	-7.8
48	634.00	98.3	-4.6	2847	2599	34.5	-1.8	589.6	53.1	-3.2	24.7	-8.3
49	648.00	97.0	1.3	2847	2403	34.1	.5	491.2	57.7	-2.4	17.1	-8.7
50	662.00	99.7	11.7	2847	2203	35.0	5.3	394.3	56.4	-1.6	10.9	-6.0
51	676.00	103.2	16.2	2847	2007	36.2	8.1	294.5	44.7	-.9	6.1	-4.2
PENT	690.00	191.3	28.5	5693	3733	33.6	7.6	191.3	28.5	-.4	2.7	-2.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 260 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	41.1	-5.9	5449	5023	7.5	-1.2	2028.6	-335.6	127.3	905.0	18.9
MEZZ	22.00	19.7	-1.0	2847	2898	6.9	-.3	1987.5	-329.7	119.9	860.8	19.0
2	36.00	18.2	-.9	2643	2691	6.9	-.3	1967.6	-328.7	115.3	833.1	19.0
3	49.00	18.1	-.9	2643	2691	6.9	-.3	1949.6	-327.8	111.1	807.6	18.9
4	62.00	18.1	-.8	2643	2691	6.8	-.3	1931.5	-326.9	106.8	782.4	18.8
5	75.00	18.0	-.8	2643	2691	6.8	-.3	1913.4	-326.1	102.6	757.4	18.6
6	88.00	18.0	-.8	2643	2691	6.8	-.3	1895.3	-325.3	98.3	732.7	18.4
7	101.00	18.0	-.7	2643	2691	6.8	-.3	1877.3	-324.5	94.1	708.1	18.2
8	114.00	17.9	-.7	2643	2691	6.8	-.3	1859.4	-323.8	89.9	683.8	17.8
9	127.00	18.5	-1.1	2643	2691	7.0	-.4	1841.5	-323.1	85.7	659.8	17.5
10	140.00	19.3	-1.8	2643	2691	7.3	-.7	1823.0	-321.9	81.5	636.0	17.1
11	153.00	20.2	-2.4	2643	2691	7.6	-.9	1803.7	-320.2	77.3	612.4	16.7
12	166.00	21.1	-3.0	2643	2691	8.0	-1.1	1783.5	-317.8	73.2	589.1	16.3
13	179.00	21.9	-3.7	2643	2691	8.3	-1.4	1762.4	-314.7	69.1	566.1	15.9
14	192.00	22.8	-4.3	2643	2691	8.6	-1.6	1740.5	-311.0	65.0	543.3	15.4
15	205.00	23.7	-4.9	2643	2691	9.0	-1.8	1717.7	-306.7	61.0	520.8	15.0
16	218.00	24.5	-5.6	2643	2691	9.3	-2.1	1694.0	-301.8	57.0	498.6	14.5
17	231.00	25.6	-5.9	2643	2691	9.7	-2.2	1669.5	-296.2	53.1	476.7	14.1
18	244.00	26.7	-6.1	2643	2691	10.1	-2.3	1643.9	-290.3	49.3	455.2	13.6
19	257.00	27.8	-6.4	2643	2691	10.5	-2.4	1617.2	-284.2	45.6	434.0	13.1
20	270.00	28.9	-6.7	2643	2691	10.9	-2.5	1589.3	-277.8	41.9	413.2	12.6
21	283.00	30.1	-7.0	2643	2691	11.4	-2.6	1560.4	-271.1	38.4	392.7	12.0
22	296.00	31.2	-7.2	2643	2691	11.8	-2.7	1530.3	-264.1	34.9	372.6	11.4
23	309.00	32.3	-7.5	2643	2691	12.2	-2.8	1499.2	-256.9	31.5	352.9	10.9
24	322.00	33.1	-7.9	2643	2691	12.5	-2.9	1466.9	-249.4	28.2	333.6	10.3
25	335.00	33.5	-8.6	2643	2691	12.7	-3.2	1433.8	-241.5	25.0	314.8	9.6
26	348.00	33.9	-9.2	2643	2691	12.8	-3.4	1400.3	-232.9	21.9	296.4	9.0
27	361.00	34.2	-9.9	2643	2691	12.9	-3.7	1366.4	-223.7	19.0	278.4	8.3
28	374.00	34.6	-10.5	2643	2691	13.1	-3.9	1332.2	-213.8	16.1	260.8	7.6
29	387.00	34.9	-11.2	2643	2691	13.2	-4.2	1297.6	-203.3	13.4	243.7	6.8
30	400.00	35.3	-11.8	2643	2691	13.3	-4.4	1262.7	-192.1	10.9	227.1	6.1
31	413.00	35.6	-12.5	2643	2691	13.5	-4.6	1227.5	-180.3	8.4	210.9	5.3
32	426.00	36.5	-13.1	2643	2691	13.8	-4.9	1191.9	-167.8	6.2	195.2	4.5
33	439.00	37.7	-13.8	2643	2691	14.2	-5.1	1155.4	-154.7	4.1	179.9	3.7
34	452.00	38.9	-14.4	2643	2691	14.7	-5.4	1117.9	-140.9	2.2	165.2	2.9
35	465.00	40.1	-15.0	2643	2691	15.2	-5.6	1078.8	-126.5	.4	150.9	1.9
36	478.00	41.3	-15.7	2643	2691	15.6	-5.8	1038.8	-111.5	-1.1	137.1	1.1
37	491.00	42.5	-16.3	2643	2691	16.1	-6.1	997.5	-95.8	-2.5	123.9	-.1
38	504.00	43.7	-16.9	2643	2691	16.5	-6.3	955.0	-79.5	-3.6	111.2	-1.4
39	517.00	44.9	-17.6	2643	2691	17.0	-6.5	911.3	-62.6	-4.5	99.1	-2.3
40	530.00	46.8	-16.9	2643	2691	17.7	-6.3	866.4	-45.0	-5.2	87.5	-3.1
41	543.00	48.8	-16.0	2643	2691	18.5	-6.0	819.6	-28.2	-5.7	76.5	-3.9
42	556.00	50.8	-15.2	2643	2691	19.2	-5.7	770.8	-12.1	-6.0	66.2	-4.6
43	569.00	52.7	-14.4	2643	2691	20.0	-5.4	720.1	3.1	-6.0	56.5	-5.3
44	582.00	54.7	-13.6	2643	2691	20.7	-5.0	667.3	17.5	-5.9	47.5	-6.0
45	595.00	56.7	-12.8	2643	2691	21.5	-4.7	612.6	31.1	-5.6	39.2	-6.7
46	608.00	58.7	-11.9	2643	2691	22.2	-4.4	555.9	43.9	-5.1	31.6	-7.3
47	621.00	60.6	-11.0	2643	2691	22.9	-4.1	497.2	55.8	-4.5	24.7	-7.8
48	634.00	67.2	-.0	2847	2599	23.6	-.0	436.6	66.8	-3.7	18.7	-7.8
49	648.00	69.2	3.9	2847	2403	24.3	1.6	369.3	66.8	-2.8	13.7	-7.6
50	662.00	74.2	13.3	2847	2203	26.1	6.1	300.1	62.9	-1.8	8.7	-5.6
51	676.00	79.6	17.2	2847	2007	28.0	8.6	225.9	49.6	-1.0	4.7	-4.0
PENT	690.00	146.3	32.4	5693	3733	25.7	8.7	146.3	32.4	-.5	2.0	-2.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 270 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	9.8	4.5	5449	5023	1.8	.9	680.4	-117.4	66.2	352.2	1.9
MEZZ	22.00	3.9	1.4	2847	2898	1.4	.5	670.6	-121.9	63.6	337.4	1.8
2	36.00	3.8	.9	2643	2691	1.4	.3	666.7	-123.3	61.9	328.0	1.9
3	49.00	4.0	.5	2643	2691	1.5	.2	662.9	-124.2	60.3	319.4	1.9
4	62.00	4.2	.1	2643	2691	1.6	.0	658.8	-124.7	58.6	310.8	1.9
5	75.00	4.5	-.3	2643	2691	1.7	-.1	654.6	-124.8	57.0	302.3	1.9
6	88.00	4.7	-.7	2643	2691	1.8	-.3	650.1	-124.5	55.4	293.8	1.8
7	101.00	4.9	-1.1	2643	2691	1.8	-.4	645.5	-123.8	53.8	285.3	1.7
8	114.00	5.1	-1.5	2643	2691	1.9	-.6	640.6	-122.7	52.2	277.0	1.5
9	127.00	5.1	-1.6	2643	2691	1.9	-.6	635.5	-121.1	50.6	268.7	1.3
10	140.00	4.9	-1.4	2643	2691	1.9	-.5	630.5	-119.6	49.0	260.5	1.2
11	153.00	4.8	-1.3	2643	2691	1.8	-.5	625.5	-118.2	47.5	252.3	1.0
12	166.00	4.6	-1.1	2643	2691	1.8	-.4	620.8	-116.9	46.0	244.2	.8
13	179.00	4.5	-1.0	2643	2691	1.7	-.4	616.1	-115.8	44.5	236.2	.6
14	192.00	4.4	-.8	2643	2691	1.7	-.3	611.6	-114.8	43.0	228.3	.5
15	205.00	4.2	-.7	2643	2691	1.6	-.3	607.2	-113.9	41.5	220.3	.3
16	218.00	4.1	-.5	2643	2691	1.5	-.2	603.0	-113.3	40.0	212.4	.2
17	231.00	4.5	-.6	2643	2691	1.7	-.2	598.9	-112.7	38.5	204.6	.1
18	244.00	4.9	-.6	2643	2691	1.8	-.2	594.4	-112.1	37.1	196.8	-.1
19	257.00	5.3	-.7	2643	2691	2.0	-.2	589.6	-111.5	35.6	189.1	-.2
20	270.00	5.6	-.7	2643	2691	2.1	-.3	584.3	-110.8	34.2	181.5	-.4
21	283.00	6.0	-.7	2643	2691	2.3	-.3	578.7	-110.1	32.7	173.9	-.6
22	296.00	6.4	-.8	2643	2691	2.4	-.3	572.7	-109.4	31.3	166.5	-.8
23	309.00	6.8	-.8	2643	2691	2.6	-.3	566.3	-108.6	29.9	159.2	-1.0
24	322.00	7.0	-.8	2643	2691	2.7	-.3	559.5	-107.8	28.5	151.9	-1.2
25	335.00	6.8	-.5	2643	2691	2.6	-.2	552.4	-107.0	27.1	144.5	-1.4
26	348.00	6.6	-.2	2643	2691	2.5	-.1	545.6	-106.6	25.7	137.4	-1.6
27	361.00	6.4	.1	2643	2691	2.4	.0	539.0	-106.3	24.3	130.3	-1.8
28	374.00	6.2	.4	2643	2691	2.4	.1	532.6	-106.4	22.9	123.4	-2.1
29	387.00	6.0	.7	2643	2691	2.3	.2	526.3	-106.7	21.5	116.5	-2.3
30	400.00	5.8	.9	2643	2691	2.2	.4	520.3	-107.4	20.1	109.7	-2.6
31	413.00	5.6	1.2	2643	2691	2.1	.5	514.5	-108.4	18.7	102.9	-2.8
32	426.00	6.3	.9	2643	2691	2.4	.3	508.8	-109.6	17.3	96.3	-3.1
33	439.00	7.6	.1	2643	2691	2.9	.0	502.5	-110.5	15.9	89.7	-3.3
34	452.00	8.9	-.6	2643	2691	3.4	-.2	494.9	-110.6	14.5	83.2	-3.6
35	465.00	10.2	-1.4	2643	2691	3.9	-.5	485.9	-109.9	13.0	76.9	-3.8
36	478.00	11.5	-2.2	2643	2691	4.4	-.8	475.7	-108.5	11.6	70.6	-3.9
37	491.00	12.8	-2.9	2643	2691	4.8	-1.1	464.2	-106.3	10.2	64.5	-4.1
38	504.00	14.1	-3.7	2643	2691	5.3	-1.4	451.4	-103.4	8.8	58.5	-4.2
39	517.00	15.4	-4.5	2643	2691	5.8	-1.7	437.3	-99.7	7.5	52.8	-4.3
40	530.00	16.7	-5.7	2643	2691	6.3	-2.1	421.9	-95.2	6.3	47.2	-4.4
41	543.00	17.9	-7.0	2643	2691	6.8	-2.6	405.3	-89.5	5.1	41.8	-4.5
42	556.00	19.2	-8.2	2643	2691	7.2	-3.1	387.3	-82.5	3.9	36.7	-4.6
43	569.00	20.4	-9.5	2643	2691	7.7	-3.5	368.2	-74.3	2.9	31.7	-4.7
44	582.00	21.7	-10.8	2643	2691	8.2	-4.0	347.8	-64.8	2.0	27.1	-4.8
45	595.00	22.9	-12.0	2643	2691	8.7	-4.5	326.1	-54.0	1.2	22.7	-4.9
46	608.00	24.2	-13.3	2643	2691	9.1	-4.9	303.2	-42.0	.6	18.6	-5.0
47	621.00	26.0	-14.5	2643	2691	9.8	-5.4	279.0	-28.7	.2	14.8	-5.1
48	634.00	32.1	-10.2	2847	2599	11.3	-3.9	253.1	-14.2	-.1	11.4	-5.2
49	648.00	36.5	-7.8	2847	2403	12.8	-3.2	220.9	-3.9	-.2	8.1	-4.6
50	662.00	42.7	-2.8	2847	2203	15.0	-1.3	184.5	3.8	-.2	5.2	-3.7
51	676.00	49.2	.8	2847	2007	17.3	.4	141.8	6.6	-.2	2.9	-2.7
PENT	690.00	92.5	5.8	5693	3733	16.3	1.6	92.5	5.8	-.1	1.3	-1.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	3.1	-1.8	5449	5023	.6	-.4	212.6	-364.4	211.1	98.0	-3.6
MEZZ	22.00	2.7	.5	2847	2898	.9	.2	209.5	-362.7	203.1	93.3	-3.5
2	36.00	3.1	-.1	2643	2691	1.2	-.0	206.8	-363.1	198.0	90.4	-3.3
3	49.00	3.8	-.6	2643	2691	1.4	-.2	203.7	-363.0	193.3	87.7	-3.2
4	62.00	4.4	-1.1	2643	2691	1.7	-.4	199.9	-362.5	188.6	85.1	-3.0
5	75.00	5.1	-1.6	2643	2691	1.9	-.6	195.5	-361.4	183.9	82.5	-3.0
6	88.00	5.7	-2.1	2643	2691	2.2	-.8	190.4	-359.8	179.2	80.0	-3.4
7	101.00	6.4	-2.6	2643	2691	2.4	-1.0	184.6	-357.7	174.5	77.6	-3.5
8	114.00	7.0	-3.1	2643	2691	2.7	-1.1	178.3	-355.1	169.9	75.2	-3.6
9	127.00	6.8	-2.9	2643	2691	2.6	-1.1	171.2	-352.1	165.3	73.0	-3.7
10	140.00	6.0	-2.4	2643	2691	2.3	-.9	164.5	-349.2	160.8	70.8	-3.9
11	153.00	5.3	-1.9	2643	2691	2.0	-.7	158.4	-346.8	156.2	68.7	-4.0
12	166.00	4.6	-1.4	2643	2691	1.7	-.5	153.2	-344.9	151.7	66.7	-4.1
13	179.00	3.8	-.9	2643	2691	1.4	-.3	148.6	-343.5	147.3	64.7	-4.2
14	192.00	3.1	-.4	2643	2691	1.2	-.2	144.8	-342.6	142.8	62.8	-4.2
15	205.00	2.4	.1	2643	2691	.9	.0	141.7	-342.2	138.4	60.9	-4.2
16	218.00	1.6	.6	2643	2691	.6	.2	139.3	-342.3	133.9	59.1	-4.2
17	231.00	1.7	.5	2643	2691	.6	.2	137.7	-342.8	129.5	57.3	-4.2
18	244.00	1.7	.4	2643	2691	.6	.2	136.6	-343.8	125.0	55.5	-4.1
19	257.00	1.7	.3	2643	2691	.7	.1	134.3	-343.8	120.5	53.8	-4.1
20	270.00	1.8	.2	2643	2691	.7	.1	132.6	-344.1	116.1	52.0	-4.1
21	283.00	1.8	.1	2643	2691	.7	.0	130.8	-344.3	111.6	50.3	-4.1
22	296.00	1.9	.0	2643	2691	.7	.0	129.0	-344.4	107.1	48.6	-4.1
23	309.00	1.9	-.1	2643	2691	.7	-.0	127.1	-344.5	102.6	47.0	-4.0
24	322.00	1.7	-.1	2643	2691	.6	-.0	125.2	-344.4	98.1	45.3	-4.0
25	335.00	.9	-.0	2643	2691	.3	-.0	123.5	-344.3	93.7	43.7	-4.0
26	348.00	.1	.0	2643	2691	.0	.0	122.6	-344.3	89.2	42.1	-4.0
27	361.00	-.7	.1	2643	2691	-.3	.0	122.5	-344.3	84.7	40.5	-4.0
28	374.00	-1.5	.2	2643	2691	-.6	.1	123.2	-344.4	80.2	38.9	-4.0
29	387.00	-2.3	.2	2643	2691	-.9	.1	124.8	-344.6	75.8	37.3	-4.1
30	400.00	-3.2	.3	2643	2691	-1.2	.1	127.1	-344.8	71.3	35.7	-4.1
31	413.00	-4.0	.4	2643	2691	-1.5	.1	130.1	-345.1	66.8	34.0	-4.2
32	426.00	-3.8	.5	2643	2691	-1.4	.2	134.3	-345.4	62.3	32.3	-4.3
33	439.00	-2.9	-2.5	2643	2691	-1.1	.7	138.0	-344.9	57.8	30.5	-4.4
34	452.00	-2.0	-3.5	2643	2691	-.8	-1.3	140.9	-342.9	53.4	28.8	-4.5
35	465.00	-1.1	-5.0	2643	2691	-.4	-1.9	142.9	-339.4	48.9	26.8	-4.6
36	478.00	-.2	-6.5	2643	2691	-.1	-2.4	144.0	-334.4	44.5	25.0	-4.7
37	491.00	.7	-8.0	2643	2691	.2	-3.0	144.2	-327.9	40.2	23.1	-4.7
38	504.00	1.5	-9.5	2643	2691	.6	-3.5	143.6	-319.9	36.0	21.2	-4.7
39	517.00	2.4	-11.0	2643	2691	.9	-4.1	142.0	-310.5	31.9	19.4	-4.7
40	530.00	2.9	-13.3	2643	2691	1.1	-4.9	139.6	-299.5	28.0	17.5	-4.6
41	543.00	3.3	-15.7	2643	2691	1.3	-5.8	136.7	-286.6	24.2	15.7	-4.5
42	556.00	3.8	-18.1	2643	2691	1.4	-6.7	133.4	-272.0	20.5	14.0	-4.3
43	569.00	4.2	-20.5	2643	2691	1.6	-7.6	129.6	-255.4	17.1	12.3	-4.2
44	582.00	4.6	-22.9	2643	2691	1.7	-8.5	125.5	-237.0	14.0	10.6	-4.0
45	595.00	5.0	-25.3	2643	2691	1.9	-9.4	120.8	-216.9	11.1	9.0	-3.8
46	608.00	5.5	-27.8	2643	2691	2.1	-10.3	115.8	-195.1	8.4	7.6	-3.5
47	621.00	6.0	-30.3	2643	2691	2.3	-11.3	110.3	-171.5	6.0	6.4	-3.3
48	634.00	12.3	-28.7	2847	2599	4.3	-11.1	103.6	-145.6	4.0	5.0	-3.2
49	648.00	17.4	-26.3	2847	2403	6.1	-10.9	91.3	-116.8	2.3	3.8	-3.1
50	662.00	17.9	-22.3	2847	2203	6.3	-10.1	73.9	-90.7	1.1	2.7	-2.9
51	676.00	17.7	-17.8	2847	2007	6.2	-8.9	56.0	-68.3	.3	1.8	-2.7
PENT	690.00	38.3	-30.4	5693	3733	6.7	-8.1	38.3	-50.4	.0	1.0	-2.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 290 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	.2	2.8	5449	5023	.0	.6	259.2	-428.7	258.1	118.2	-4.5
MEZZ	22.00	3.1	1.1	2847	2898	1.1	.4	259.0	-431.5	248.6	112.5	-4.0
2	36.00	3.5	.5	2643	2691	1.3	.2	255.9	-432.6	242.5	108.9	-4.0
3	49.00	4.1	.0	2643	2691	1.5	.0	252.4	-433.1	236.9	105.6	-4.0
4	62.00	4.7	-.5	2643	2691	1.8	-.2	248.3	-433.1	231.3	102.3	-4.1
5	75.00	5.2	-1.0	2643	2691	2.0	-.4	243.6	-432.6	225.7	99.1	-4.1
6	88.00	5.8	-1.4	2643	2691	2.2	-.5	238.4	-431.7	220.0	96.0	-4.1
7	101.00	6.4	-1.9	2643	2691	2.4	-.7	232.5	-430.2	214.4	92.9	-4.2
8	114.00	7.0	-2.4	2643	2691	2.6	-.9	226.1	-428.3	208.9	90.1	-4.3
9	127.00	6.7	-2.2	2643	2691	2.5	-.8	219.1	-425.9	203.3	87.1	-4.5
10	140.00	6.0	-1.7	2643	2691	2.3	-.6	212.4	-423.7	197.8	84.3	-4.7
11	153.00	5.3	-1.2	2643	2691	2.0	-.4	206.4	-422.0	192.3	81.5	-4.8
12	166.00	4.6	-.6	2643	2691	1.7	-.2	201.1	-420.8	186.8	78.9	-5.0
13	179.00	3.9	-.1	2643	2691	1.5	-.0	196.5	-420.2	181.3	76.3	-5.1
14	192.00	3.2	.4	2643	2691	1.2	.1	192.6	-420.0	175.9	73.8	-5.1
15	205.00	2.5	.9	2643	2691	.9	.3	189.5	-420.4	170.4	71.3	-5.1
16	218.00	1.8	1.4	2643	2691	.7	.5	187.0	-421.3	164.9	68.8	-5.1
17	231.00	2.0	1.2	2643	2691	.7	.4	185.2	-422.8	159.5	66.4	-5.0
18	244.00	2.2	1.0	2643	2691	.8	.4	183.2	-424.0	154.0	64.0	-4.9
19	257.00	2.3	.7	2643	2691	.9	.3	181.0	-424.9	148.4	61.7	-4.8
20	270.00	2.5	.5	2643	2691	1.0	.2	178.7	-425.7	142.9	59.3	-4.7
21	283.00	2.7	.3	2643	2691	1.0	.1	176.2	-426.2	137.4	57.0	-4.6
22	296.00	2.9	.0	2643	2691	1.1	.0	173.6	-426.4	131.8	54.7	-4.5
23	309.00	3.1	-.2	2643	2691	1.2	-.1	170.6	-426.5	126.3	52.5	-4.4
24	322.00	3.0	-.4	2643	2691	1.1	-.1	167.5	-426.3	120.7	50.3	-4.4
25	335.00	2.3	-.5	2643	2691	.9	-.2	164.5	-425.9	115.2	48.0	-4.4
26	348.00	1.6	-.6	2643	2691	.6	-.2	162.6	-425.4	109.7	46.0	-4.3
27	361.00	.9	-.7	2643	2691	.3	-.3	160.9	-424.8	104.1	43.9	-4.3
28	374.00	.2	-.8	2643	2691	.1	-.3	159.7	-424.1	98.6	41.8	-4.3
29	387.00	-.5	-.9	2643	2691	-.2	-.3	159.5	-423.3	93.1	39.8	-4.3
30	400.00	-1.2	-1.0	2643	2691	-.5	-.4	160.0	-422.4	87.6	37.7	-4.4
31	413.00	-1.9	-1.1	2643	2691	-.7	-.4	161.2	-421.5	82.1	35.7	-4.4
32	426.00	-1.6	-2.0	2643	2691	-.6	-.7	163.1	-420.4	76.7	33.6	-4.5
33	439.00	-.7	-3.4	2643	2691	-.3	-1.3	164.7	-418.4	71.2	31.5	-4.6
34	452.00	.2	-4.8	2643	2691	.1	-1.8	165.5	-415.0	65.8	29.4	-4.6
35	465.00	1.1	-6.2	2643	2691	.4	-2.3	165.3	-410.2	60.4	27.4	-4.7
36	478.00	2.0	-7.7	2643	2691	.8	-2.8	164.2	-404.0	55.1	24.9	-4.7
37	491.00	2.9	-9.1	2643	2691	1.1	-3.4	162.1	-396.3	49.9	22.0	-4.6
38	504.00	3.8	-10.5	2643	2691	1.5	-3.9	159.2	-387.3	44.8	20.8	-4.6
39	517.00	4.8	-11.9	2643	2691	1.8	-4.4	155.4	-376.8	39.9	18.7	-4.6
40	530.00	5.3	-14.9	2643	2691	2.0	-5.5	150.6	-364.8	35.1	16.7	-4.4
41	543.00	5.8	-18.0	2643	2691	2.2	-6.7	145.3	-350.0	30.4	14.8	-4.3
42	556.00	6.3	-21.0	2643	2691	2.4	-7.8	139.6	-332.0	26.0	12.9	-4.2
43	569.00	6.7	-24.1	2643	2691	2.6	-9.0	133.6	-311.0	21.8	11.1	-4.1
44	582.00	7.2	-27.2	2643	2691	2.7	-10.1	126.6	-286.8	17.9	9.4	-4.0
45	595.00	7.7	-30.3	2643	2691	2.9	-11.3	119.3	-259.6	14.4	7.9	-3.9
46	608.00	8.2	-33.4	2643	2691	3.1	-12.4	111.6	-229.4	11.2	6.4	-3.7
47	621.00	8.6	-36.4	2643	2691	3.6	-13.5	103.4	-196.0	8.4	5.3	-3.6
48	634.00	15.5	-33.6	2847	2599	5.4	-12.9	93.8	-159.6	6.1	3.2	-3.2
49	648.00	20.9	-30.8	2847	2403	7.3	-12.8	78.3	-126.0	4.1	2.6	-2.1
50	662.00	17.7	-27.3	2847	2203	6.2	-12.4	57.5	-95.2	2.6	1.4	-1.4
51	676.00	13.2	-23.3	2847	2007	4.6	-11.6	39.8	-68.2	1.4	.6	-1.5
PENT	690.00	26.6	-44.7	5693	3733	4.7	-12.0	26.6	-44.7	.6	.4	-1.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 300 CONFIGURATION A REFERENCE PRESSURE 45.0 PSF GUST FACTOR 1.32

FLOOR	HEIGHT FT	X-FORCE KIPS	Y-FORCE KIPS	X-AREA SQ FT	Y-AREA SQ FT	X-PRESS PSF	Y-PRESS PSF	X-SHEAR KIPS	Y-SHEAR KIPS	X-MOMENT	Y-MOMENT	Z-MOMENT
										1000-FT-KIPS		
STRT	0.00	-3.1	1.8	5449	5023	-.6	.4	118.3	-595.5	323.0	15.3	-1.9
MEZZ	22.00	3.3	-.6	2847	2898	1.2	-.2	121.4	-597.2	309.9	12.7	-1.4
2	36.00	3.7	-1.2	2643	2691	1.4	-.4	118.1	-596.7	301.5	11.0	-1.3
3	49.00	4.4	-1.8	2643	2691	1.7	-.7	114.4	-595.5	293.8	9.5	-1.3
4	62.00	5.0	-2.4	2643	2691	1.9	-.9	110.0	-593.7	286.1	8.0	-1.3
5	75.00	5.7	-3.0	2643	2691	2.1	-1.1	105.0	-591.3	278.3	6.6	-1.3
6	88.00	6.3	-3.6	2643	2691	2.4	-1.3	99.3	-588.3	270.7	5.3	-1.4
7	101.00	7.0	-4.2	2643	2691	2.6	-1.6	93.0	-584.7	263.1	4.1	-1.5
8	114.00	7.6	-4.8	2643	2691	2.9	-1.8	86.1	-580.5	255.5	2.9	-1.6
9	127.00	7.5	-4.8	2643	2691	2.8	-1.8	78.5	-575.7	248.0	1.8	-1.8
10	140.00	7.0	-4.5	2643	2691	2.6	-1.7	71.0	-570.9	240.5	.9	-1.9
11	153.00	6.5	-4.3	2643	2691	2.5	-1.6	64.0	-566.3	233.1	-.0	-2.0
12	166.00	6.0	-4.0	2643	2691	2.3	-1.5	57.5	-562.1	225.8	-.8	-2.1
13	179.00	5.6	-3.7	2643	2691	2.1	-1.4	51.4	-558.1	218.5	-1.5	-2.1
14	192.00	5.1	-3.4	2643	2691	1.9	-1.3	45.9	-554.4	211.3	-2.1	-2.1
15	205.00	4.6	-3.2	2643	2691	1.7	-1.2	40.8	-551.0	204.1	-2.7	-2.0
16	218.00	4.1	-2.9	2643	2691	1.6	-1.1	36.2	-547.8	196.9	-3.2	-1.9
17	231.00	4.1	-3.1	2643	2691	1.5	-1.1	32.1	-544.9	189.8	-3.6	-1.8
18	244.00	4.0	-3.3	2643	2691	1.5	-1.2	28.1	-541.9	182.8	-4.0	-1.6
19	257.00	3.9	-3.5	2643	2691	1.5	-1.3	24.1	-538.6	175.8	-4.4	-1.5
20	270.00	3.9	-3.7	2643	2691	1.5	-1.4	20.1	-535.1	168.8	-4.7	-1.3
21	283.00	3.8	-3.9	2643	2691	1.5	-1.4	16.2	-531.5	161.8	-4.9	-1.2
22	296.00	3.8	-4.1	2643	2691	1.4	-1.5	12.4	-527.6	155.0	-5.1	-1.0
23	309.00	3.7	-4.3	2643	2691	1.4	-1.6	8.6	-523.5	148.1	-5.2	-.9
24	322.00	3.5	-4.4	2643	2691	1.3	-1.6	4.9	-519.2	141.4	-5.3	-.7
25	335.00	3.1	-4.2	2643	2691	1.2	-1.5	1.3	-514.9	134.6	-5.4	-.6
26	348.00	2.6	-4.0	2643	2691	1.0	-1.5	-1.7	-510.7	128.0	-5.4	-.4
27	361.00	2.1	-3.8	2643	2691	.8	-1.4	-4.3	-506.7	121.4	-5.3	-.3
28	374.00	1.6	-3.6	2643	2691	.6	-1.3	-6.4	-502.9	114.8	-5.2	-.2
29	387.00	1.1	-3.4	2643	2691	.4	-1.3	-8.0	-499.4	108.3	-5.1	-.1
30	400.00	.6	-3.2	2643	2691	.2	-1.2	-9.1	-496.0	101.8	-5.0	-.0
31	413.00	.1	-3.0	2643	2691	.1	-1.1	-9.7	-492.8	95.4	-4.9	.0
32	426.00	-.1	-4.0	2643	2691	.0	-1.5	-9.9	-489.8	89.0	-4.8	.0
33	439.00	-.3	-5.7	2643	2691	.1	-2.1	-10.0	-485.8	82.7	-4.7	.1
34	452.00	-.5	-7.5	2643	2691	.2	-2.8	-10.3	-480.1	76.4	-4.5	.1
35	465.00	-.8	-9.2	2643	2691	.3	-3.4	-10.8	-472.6	70.2	-4.4	.1
36	478.00	1.0	-10.9	2643	2691	.4	-4.1	-11.6	-463.4	64.1	-4.2	.2
37	491.00	1.2	-12.7	2643	2691	.5	-4.7	-12.6	-452.5	58.1	-4.1	.2
38	504.00	1.5	-14.4	2643	2691	.6	-5.4	-13.8	-439.8	52.3	-3.9	.3
39	517.00	1.7	-16.1	2643	2691	.6	-6.0	-15.3	-425.4	46.7	-3.7	.4
40	530.00	1.4	-18.3	2643	2691	.5	-6.8	-17.0	-409.3	41.3	-3.5	.4
41	543.00	1.0	-20.5	2643	2691	.4	-7.6	-18.4	-391.0	36.1	-3.3	.5
42	556.00	.7	-22.7	2643	2691	.2	-8.4	-19.4	-370.5	31.1	-3.0	.5
43	569.00	.3	-25.0	2643	2691	.1	-9.3	-20.1	-347.7	26.5	-2.8	.5
44	582.00	-.1	-27.2	2643	2691	-.0	-10.1	-20.4	-322.8	22.1	-2.5	.5
45	595.00	-.4	-29.4	2643	2691	-.2	-10.9	-20.3	-295.6	18.1	-2.3	.5
46	608.00	-.8	-31.6	2643	2691	-.3	-11.7	-19.9	-266.2	14.4	-2.0	.4
47	621.00	-.6	-34.1	2643	2691	-.2	-12.7	-19.1	-234.6	11.2	-1.7	.3
48	634.00	2.0	-34.4	2847	2599	.7	-13.2	-18.5	-200.6	8.4	-1.5	.2
49	648.00	4.8	-33.8	2847	2403	1.7	-14.1	-20.6	-166.2	5.8	-1.2	.6
50	662.00	-.4	-33.7	2847	2203	-.1	-15.3	-25.3	-132.3	3.7	-.9	1.2
51	676.00	-6.9	-32.2	2847	2007	-2.4	-16.1	-24.9	-98.6	2.1	-.6	1.4
PENT	690.00	-18.0	-66.4	5693	3733	-3.2	-17.8	-18.0	-66.4	.9	-.3	1.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 310 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	.6	-19.0	5449	5023	.1	-3.8	-598.3	-1308.8	679.3	-352.2	4.0
MEZZ	22.00	.2	-8.8	2847	2898	.1	-3.0	-598.9	-1289.7	650.7	-339.0	5.1
2	36.00	.6	-8.5	2643	2691	.2	-3.2	-599.0	-1280.9	632.7	-330.6	5.1
3	49.00	1.0	-8.8	2643	2691	.4	-3.3	-599.6	-1272.4	616.1	-322.8	5.1
4	62.00	1.5	-9.1	2643	2691	.6	-3.4	-600.7	-1263.6	599.6	-315.0	5.1
5	75.00	1.9	-9.4	2643	2691	.7	-3.5	-602.1	-1254.5	583.3	-307.2	5.0
6	88.00	2.3	-9.7	2643	2691	.9	-3.6	-604.0	-1245.1	567.0	-299.4	4.8
7	101.00	2.8	-10.0	2643	2691	1.0	-3.7	-606.3	-1235.4	550.9	-291.5	4.7
8	114.00	3.2	-10.3	2643	2691	1.2	-3.8	-609.1	-1225.3	534.9	-283.6	4.5
9	127.00	3.0	-10.1	2643	2691	1.2	-3.8	-612.3	-1215.0	519.0	-275.7	4.3
10	140.00	2.6	-9.7	2643	2691	1.0	-3.6	-615.3	-1204.9	503.3	-267.7	4.1
11	153.00	2.2	-9.2	2643	2691	.8	-3.4	-618.0	-1195.2	487.7	-259.7	3.9
12	166.00	1.8	-8.8	2643	2691	.7	-3.3	-620.1	-1186.0	472.2	-251.6	3.8
13	179.00	1.3	-8.4	2643	2691	.5	-3.1	-621.9	-1177.2	456.9	-243.5	3.7
14	192.00	.9	-7.9	2643	2691	.3	-2.9	-623.2	-1168.9	441.6	-235.4	3.7
15	205.00	.5	-7.5	2643	2691	.2	-2.8	-624.1	-1160.9	426.5	-227.3	3.7
16	218.00	.0	-7.0	2643	2691	.0	-2.6	-624.6	-1153.5	411.4	-219.2	3.7
17	231.00	-.7	-6.9	2643	2691	-.3	-2.6	-624.7	-1146.4	396.5	-211.1	3.8
18	244.00	-1.5	-6.8	2643	2691	-.6	-2.5	-623.9	-1139.5	381.6	-203.0	3.8
19	257.00	-2.3	-6.7	2643	2691	-.9	-2.5	-622.4	-1132.7	366.9	-194.9	3.9
20	270.00	-3.1	-6.6	2643	2691	-1.2	-2.5	-620.1	-1126.0	352.2	-186.8	4.0
21	283.00	-3.8	-6.5	2643	2691	-1.4	-2.4	-617.1	-1119.4	337.6	-178.8	4.2
22	296.00	-4.6	-6.4	2643	2691	-1.7	-2.4	-613.3	-1112.9	323.1	-170.8	4.3
23	309.00	-5.4	-6.3	2643	2691	-2.0	-2.3	-608.7	-1106.5	308.6	-162.8	4.5
24	322.00	-6.1	-6.4	2643	2691	-2.3	-2.4	-603.3	-1100.2	294.3	-155.0	4.6
25	335.00	-6.6	-6.9	2643	2691	-2.5	-2.6	-597.2	-1093.9	280.0	-147.1	4.8
26	348.00	-7.1	-7.4	2643	2691	-2.8	-2.8	-590.7	-1087.0	265.9	-139.4	5.0
27	361.00	-7.6	-8.0	2643	2691	-2.9	-3.0	-583.6	-1079.5	251.8	-131.8	5.2
28	374.00	-8.1	-8.5	2643	2691	-3.0	-3.2	-576.0	-1071.5	237.8	-124.3	5.4
29	387.00	-8.6	-9.1	2643	2691	-3.2	-3.4	-568.0	-1063.0	223.9	-116.8	5.5
30	400.00	-9.1	-9.6	2643	2691	-3.4	-3.6	-559.4	-1053.9	210.2	-109.5	5.7
31	413.00	-9.6	-10.2	2643	2691	-3.6	-3.8	-550.4	-1044.3	196.5	-102.3	5.9
32	426.00	-10.4	-12.3	2643	2691	-3.9	-4.6	-540.8	-1034.1	183.0	-95.2	6.0
33	439.00	-11.4	-15.4	2643	2691	-4.3	-5.7	-530.5	-1021.9	169.6	-88.2	6.2
34	452.00	-12.4	-18.5	2643	2691	-4.7	-6.9	-519.1	-1006.5	156.5	-81.4	6.3
35	465.00	-13.4	-21.6	2643	2691	-5.1	-8.0	-506.7	-988.0	143.5	-74.7	6.5
36	478.00	-14.4	-24.7	2643	2691	-5.4	-9.2	-493.4	-966.5	130.8	-68.2	6.6
37	491.00	-15.4	-27.8	2643	2691	-5.8	-10.3	-479.0	-941.8	118.4	-61.9	6.8
38	504.00	-16.4	-30.9	2643	2691	-6.2	-11.5	-463.6	-914.0	106.3	-55.8	6.9
39	517.00	-17.4	-34.0	2643	2691	-6.6	-12.6	-447.2	-883.1	94.6	-49.9	6.9
40	530.00	-19.6	-38.9	2643	2691	-7.4	-14.4	-429.8	-849.2	83.4	-44.2	6.9
41	543.00	-21.8	-44.0	2643	2691	-8.3	-16.3	-410.3	-810.3	72.6	-38.7	6.9
42	556.00	-24.1	-49.0	2643	2691	-9.1	-18.2	-388.4	-766.3	62.4	-33.5	6.8
43	569.00	-26.4	-54.1	2643	2691	-10.0	-20.1	-364.3	-717.2	52.7	-28.6	6.6
44	582.00	-28.7	-59.2	2643	2691	-10.9	-22.0	-337.9	-663.2	43.7	-24.1	6.6
45	595.00	-31.0	-64.2	2643	2691	-11.7	-23.9	-309.2	-604.0	35.5	-19.8	6.5
46	608.00	-33.3	-69.3	2643	2691	-12.6	-25.8	-278.2	-539.8	28.1	-16.0	6.3
47	621.00	-34.0	-73.6	2643	2691	-12.9	-27.4	-245.0	-470.5	21.5	-12.6	6.1
48	634.00	-31.4	-74.9	2847	2599	-11.0	-28.8	-210.9	-396.8	15.9	-9.7	5.4
49	648.00	-25.9	-71.2	2847	2403	-9.1	-29.6	-179.6	-321.9	10.8	-6.9	4.7
50	662.00	-30.7	-68.1	2847	2203	-10.8	-30.9	-153.6	-250.7	6.8	-4.6	4.4
51	676.00	-37.2	-63.1	2847	2007	-13.1	-31.5	-122.9	-182.6	3.8	-2.7	4.3
PENT	690.00	-85.7	-119.5	5693	3733	-15.1	-32.0	-85.7	-119.5	1.7	-1.2	3.

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 320 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-2.4	-19.2	5449	5023	-.4	-3.8	-1305.9	-1446.9	635.8	-658.0	3.6
MEZZ	22.00	-.5	-17.8	2847	2898	-.2	-6.1	-1303.5	-1427.7	604.2	-629.3	4.4
2	36.00	-.3	-17.3	2643	2691	-.1	-6.4	-1303.1	-1409.9	584.4	-611.0	4.5
3	49.00	-.2	-18.0	2643	2691	-.1	-6.7	-1302.7	-1392.6	566.1	-594.1	4.6
4	62.00	-.2	-18.7	2643	2691	-.1	-6.9	-1302.5	-1374.6	548.2	-577.1	4.6
5	75.00	-.1	-19.4	2643	2691	-.0	-7.2	-1302.3	-1356.0	530.4	-560.2	4.6
6	88.00	.0	-20.1	2643	2691	.0	-7.5	-1302.3	-1336.6	512.9	-543.3	4.6
7	101.00	.1	-20.8	2643	2691	.0	-7.7	-1302.3	-1316.6	495.7	-526.4	4.5
8	114.00	.2	-21.5	2643	2691	.1	-8.0	-1302.4	-1295.8	478.7	-509.4	4.3
9	127.00	-1.3	-21.2	2643	2691	-.5	-7.9	-1302.6	-1274.3	462.0	-492.5	4.1
10	140.00	-3.4	-20.5	2643	2691	-1.3	-7.6	-1301.3	-1253.1	445.5	-475.6	4.0
11	153.00	-5.6	-19.9	2643	2691	-2.1	-7.4	-1297.9	-1232.6	429.4	-458.7	3.8
12	166.00	-7.8	-19.2	2643	2691	-2.9	-7.1	-1292.3	-1212.7	413.5	-441.8	3.7
13	179.00	-10.0	-18.5	2643	2691	-3.8	-6.9	-1284.5	-1193.5	397.9	-425.1	3.7
14	192.00	-12.1	-17.8	2643	2691	-4.6	-6.6	-1274.5	-1175.1	382.5	-408.4	3.6
15	205.00	-14.3	-17.1	2643	2691	-5.4	-6.4	-1262.4	-1157.2	367.3	-392.0	3.6
16	218.00	-16.5	-16.4	2643	2691	-6.2	-6.1	-1248.0	-1140.1	352.4	-375.6	3.6
17	231.00	-17.1	-16.4	2643	2691	-6.5	-6.1	-1231.5	-1123.7	337.6	-359.5	3.7
18	244.00	-17.8	-16.4	2643	2691	-6.7	-6.1	-1214.4	-1107.3	323.1	-343.6	3.8
19	257.00	-18.4	-16.4	2643	2691	-7.0	-6.1	-1196.6	-1090.8	308.9	-328.0	4.0
20	270.00	-19.0	-16.4	2643	2691	-7.2	-6.1	-1178.2	-1074.4	294.8	-312.5	4.1
21	283.00	-19.6	-16.4	2643	2691	-7.4	-6.1	-1159.2	-1058.0	280.9	-297.3	4.2
22	296.00	-20.2	-16.4	2643	2691	-7.7	-6.1	-1139.6	-1041.6	267.3	-282.4	4.4
23	309.00	-20.9	-16.4	2643	2691	-7.9	-6.1	-1119.4	-1025.3	253.8	-267.7	4.6
24	322.00	-21.6	-16.7	2643	2691	-8.2	-6.2	-1098.5	-1008.9	240.6	-253.3	4.8
25	335.00	-22.7	-17.7	2643	2691	-8.6	-6.6	-1076.9	-992.2	227.6	-239.1	5.0
26	348.00	-23.7	-18.7	2643	2691	-9.0	-6.9	-1054.2	-974.6	214.8	-225.1	5.2
27	361.00	-24.7	-19.7	2643	2691	-9.4	-7.3	-1030.5	-955.9	202.3	-211.3	5.5
28	374.00	-25.8	-20.7	2643	2691	-9.8	-7.7	-1005.8	-936.2	190.0	-198.5	5.7
29	387.00	-26.8	-21.7	2643	2691	-10.2	-8.1	-980.0	-915.5	177.9	-185.6	6.0
30	400.00	-27.9	-22.7	2643	2691	-10.6	-8.4	-953.2	-893.9	166.2	-173.0	6.3
31	413.00	-28.9	-23.7	2643	2691	-10.9	-8.8	-925.3	-871.2	154.7	-160.8	6.7
32	426.00	-29.3	-24.6	2643	2691	-11.1	-9.1	-896.3	-847.5	143.5	-149.0	7.1
33	439.00	-29.2	-25.4	2643	2691	-11.0	-9.4	-867.0	-822.9	132.7	-137.5	7.7
34	452.00	-29.1	-26.2	2643	2691	-11.0	-9.7	-837.8	-797.5	122.2	-126.4	8.3
35	465.00	-29.0	-27.0	2643	2691	-11.0	-10.0	-808.8	-771.3	112.0	-115.7	8.8
36	478.00	-28.9	-27.8	2643	2691	-10.9	-10.3	-779.8	-744.3	102.1	-105.4	9.4
37	491.00	-28.8	-28.6	2643	2691	-10.9	-10.6	-750.9	-716.5	92.6	-95.5	9.8
38	504.00	-28.6	-29.4	2643	2691	-10.8	-10.9	-722.2	-687.9	83.5	-85.9	9.9
39	517.00	-28.5	-30.2	2643	2691	-10.8	-11.2	-693.5	-658.5	74.7	-76.7	9.8
40	530.00	-31.3	-31.4	2643	2691	-11.8	-11.7	-665.0	-628.3	66.4	-67.9	9.8
41	543.00	-34.4	-32.7	2643	2691	-13.0	-12.2	-633.7	-596.8	58.4	-59.4	10.1
42	556.00	-37.5	-34.0	2643	2691	-14.2	-12.6	-599.3	-564.1	50.9	-51.4	10.2
43	569.00	-40.5	-35.3	2643	2691	-15.3	-13.1	-561.8	-530.1	43.7	-43.8	10.2
44	582.00	-43.6	-36.5	2643	2691	-16.5	-13.6	-521.3	-494.9	37.1	-36.8	10.1
45	595.00	-46.7	-37.8	2643	2691	-17.6	-14.0	-477.7	-458.3	30.9	-30.3	9.9
46	608.00	-49.7	-39.1	2643	2691	-18.8	-14.5	-431.1	-420.5	25.2	-24.4	9.9
47	621.00	-51.5	-41.1	2643	2691	-19.5	-15.3	-381.4	-381.4	20.3	-19.1	9.5
48	634.00	-52.2	-46.7	2847	2599	-18.3	-18.0	-329.8	-340.3	15.8	-14.5	8.7
49	648.00	-48.8	-49.3	2847	2403	-17.1	-20.5	-277.7	-293.6	10.8	-10.3	7.6
50	662.00	-50.8	-55.3	2847	2203	-17.8	-25.1	-228.8	-244.3	7.1	-6.7	6.8
51	676.00	-53.7	-60.1	2847	2007	-18.9	-30.0	-178.0	-189.0	4.0	-3.9	5.9
PENT	690.00	-124.4	-128.8	5693	3733	-21.8	-34.5	-124.4	-128.8	1.8	-1.7	3.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 330 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-18.2	-31.2	5449	5023	-3.3	-6.2	-1678.5	-1623.5	648.6	-764.4	2.0
MEZZ	22.00	-10.7	-28.6	2847	2898	-3.7	-9.9	-1660.3	-1592.3	613.3	-727.7	2.7
2	36.00	-9.7	-26.9	2643	2691	-3.7	-10.0	-1649.6	-1563.7	591.2	-704.5	2.7
3	49.00	-9.5	-27.1	2643	2691	-3.6	-10.1	-1639.9	-1536.8	571.6	-683.1	2.7
4	62.00	-9.2	-27.4	2643	2691	-3.5	-10.2	-1630.5	-1509.7	551.2	-661.9	2.6
5	75.00	-9.0	-27.7	2643	2691	-3.4	-10.3	-1621.3	-1482.3	531.8	-640.7	2.5
6	88.00	-8.8	-27.9	2643	2691	-3.3	-10.4	-1612.2	-1454.6	512.7	-619.7	2.3
7	101.00	-8.6	-28.2	2643	2691	-3.2	-10.5	-1603.4	-1426.7	494.0	-598.8	2.1
8	114.00	-8.3	-28.5	2643	2691	-3.2	-10.6	-1594.9	-1398.5	475.6	-578.0	1.8
9	127.00	-9.8	-28.0	2643	2691	-3.7	-10.4	-1586.5	-1370.0	457.6	-557.3	1.5
10	140.00	-12.0	-27.2	2643	2691	-4.6	-10.1	-1576.7	-1342.0	440.0	-536.8	1.2
11	153.00	-14.3	-26.4	2643	2691	-5.4	-9.8	-1564.7	-1314.9	422.7	-516.4	.9
12	166.00	-16.5	-25.6	2643	2691	-6.2	-9.5	-1550.4	-1288.5	405.8	-496.1	.6
13	179.00	-18.7	-24.8	2643	2691	-7.1	-9.2	-1533.9	-1262.9	389.2	-476.1	.4
14	192.00	-21.0	-23.9	2643	2691	-7.9	-8.9	-1515.2	-1238.2	372.9	-456.2	.2
15	205.00	-23.2	-23.1	2643	2691	-8.8	-8.6	-1494.2	-1214.2	357.0	-436.7	.1
16	218.00	-25.4	-22.3	2643	2691	-9.6	-8.3	-1471.0	-1191.1	341.4	-417.4	-.0
17	231.00	-26.1	-22.3	2643	2691	-9.9	-8.3	-1445.6	-1168.8	326.0	-398.4	-.1
18	244.00	-26.7	-22.4	2643	2691	-10.1	-8.3	-1419.5	-1146.4	311.0	-379.8	-.2
19	257.00	-27.3	-22.4	2643	2691	-10.3	-8.3	-1392.9	-1124.0	296.2	-361.5	-.2
20	270.00	-27.9	-22.4	2643	2691	-10.5	-8.3	-1365.6	-1101.6	281.7	-343.6	-.2
21	283.00	-28.5	-22.5	2643	2691	-10.8	-8.3	-1337.7	-1079.2	267.6	-326.0	-.2
22	296.00	-29.1	-22.5	2643	2691	-11.0	-8.4	-1309.2	-1056.7	253.7	-308.8	-.1
23	309.00	-29.7	-22.5	2643	2691	-11.2	-8.4	-1280.2	-1034.2	240.1	-292.0	-.0
24	322.00	-30.3	-22.8	2643	2691	-11.5	-8.5	-1250.5	-1011.7	226.8	-275.6	.1
25	335.00	-30.9	-23.8	2643	2691	-11.7	-8.8	-1220.2	-988.9	213.8	-259.5	.2
26	348.00	-31.4	-24.7	2643	2691	-11.9	-9.2	-1189.4	-965.1	201.1	-243.8	.4
27	361.00	-32.0	-25.7	2643	2691	-12.1	-9.5	-1158.0	-940.3	188.7	-228.7	.6
28	374.00	-32.6	-26.6	2643	2691	-12.3	-9.9	-1125.9	-914.7	176.7	-213.7	.8
29	387.00	-33.2	-27.6	2643	2691	-12.6	-10.2	-1093.3	-888.0	164.9	-199.3	1.0
30	400.00	-33.8	-28.5	2643	2691	-12.8	-10.6	-1060.1	-860.5	153.6	-185.3	1.2
31	413.00	-34.4	-29.5	2643	2691	-13.0	-11.0	-1026.4	-831.9	142.6	-171.7	1.5
32	426.00	-34.6	-29.8	2643	2691	-13.1	-11.1	-992.0	-802.5	131.9	-158.6	1.8
33	439.00	-34.6	-29.7	2643	2691	-13.1	-11.0	-957.4	-772.7	121.7	-146.0	2.0
34	452.00	-34.6	-29.6	2643	2691	-13.1	-11.0	-922.9	-743.0	111.9	-133.7	2.2
35	465.00	-34.6	-29.5	2643	2691	-13.1	-11.0	-888.3	-713.3	102.4	-122.0	2.7
36	478.00	-34.6	-29.5	2643	2691	-13.1	-11.0	-853.7	-683.8	93.3	-110.6	3.0
37	491.00	-34.6	-29.4	2643	2691	-13.1	-10.9	-819.2	-654.3	84.6	-99.8	3.4
38	504.00	-34.6	-29.3	2643	2691	-13.1	-10.9	-784.6	-624.9	76.3	-89.3	3.8
39	517.00	-34.6	-29.2	2643	2691	-13.1	-10.9	-750.0	-595.6	68.4	-79.4	4.2
40	530.00	-37.3	-29.5	2643	2691	-14.1	-11.0	-715.5	-566.4	60.8	-69.8	4.6
41	543.00	-40.4	-29.9	2643	2691	-15.3	-11.1	-678.2	-536.9	53.6	-60.8	4.9
42	556.00	-43.4	-30.3	2643	2691	-16.4	-11.2	-637.8	-507.0	46.9	-52.2	5.2
43	569.00	-46.4	-30.6	2643	2691	-17.6	-11.4	-594.4	-476.7	40.5	-44.2	5.4
44	582.00	-49.5	-31.0	2643	2691	-18.7	-11.5	-547.9	-446.1	34.5	-36.8	5.5
45	595.00	-52.5	-31.3	2643	2691	-19.9	-11.6	-498.5	-415.1	28.9	-30.0	5.6
46	608.00	-55.6	-31.7	2643	2691	-21.0	-11.8	-445.9	-383.7	23.7	-23.8	5.5
47	621.00	-57.4	-33.0	2643	2691	-21.7	-12.3	-390.4	-352.0	18.9	-18.4	5.4
48	634.00	-59.1	-40.4	2847	2599	-20.8	-15.5	-333.0	-319.0	14.5	-13.7	5.2
49	648.00	-56.2	-45.4	2847	2403	-19.8	-18.9	-273.9	-278.6	10.3	-9.5	4.8
50	662.00	-55.7	-52.4	2847	2203	-19.6	-23.8	-217.6	-233.2	6.8	-6.0	4.3
51	676.00	-55.6	-57.2	2847	2007	-19.5	-28.5	-161.9	-180.8	3.9	-3.4	3.4
PENT	690.00	-106.3	-123.6	5693	3733	-18.7	-33.1	-106.3	-123.6	1.7	-1.5	2.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-46.6	-33.2	5449	5023	-8.5	-6.6	-2085.4	-1796.6	713.6	-833.8	1.5
MEZZ	22.00	-27.7	-32.6	2847	2898	-9.7	-11.3	-2038.8	-1762.8	674.5	-788.4	1.5
2	36.00	-25.0	-30.0	2643	2691	-9.5	-11.2	-2011.2	-1730.2	650.7	-760.1	1.5
3	49.00	-24.4	-29.8	2643	2691	-9.2	-11.1	-1986.1	-1700.2	627.8	-734.1	1.5
4	62.00	-23.8	-29.5	2643	2691	-9.0	-11.0	-1961.7	-1670.4	605.8	-708.4	1.4
5	75.00	-23.2	-29.3	2643	2691	-8.8	-10.9	-1937.9	-1640.8	584.3	-683.1	1.4
6	88.00	-22.5	-29.0	2643	2691	-8.5	-10.8	-1914.8	-1611.6	563.2	-658.0	1.4
7	101.00	-21.9	-28.8	2643	2691	-8.3	-10.7	-1892.2	-1582.5	542.4	-633.3	1.3
8	114.00	-21.3	-28.5	2643	2691	-8.1	-10.6	-1870.3	-1553.7	522.0	-608.8	1.3
9	127.00	-22.5	-28.4	2643	2691	-8.5	-10.5	-1849.0	-1525.2	502.0	-584.7	1.2
10	140.00	-24.7	-28.2	2643	2691	-9.3	-10.5	-1826.5	-1496.8	482.4	-560.8	1.2
11	153.00	-26.8	-28.1	2643	2691	-10.1	-10.4	-1801.8	-1468.6	463.1	-537.2	1.1
12	166.00	-28.9	-27.9	2643	2691	-10.9	-10.4	-1775.0	-1440.5	444.2	-513.9	1.1
13	179.00	-31.1	-27.8	2643	2691	-11.8	-10.3	-1746.1	-1412.6	425.6	-491.1	1.0
14	192.00	-33.2	-27.6	2643	2691	-12.6	-10.3	-1715.0	-1384.9	407.4	-468.6	1.0
15	205.00	-35.3	-27.4	2643	2691	-13.4	-10.2	-1681.9	-1357.3	389.6	-446.5	0.9
16	218.00	-37.5	-27.3	2643	2691	-14.2	-10.1	-1646.5	-1329.8	372.2	-424.8	0.9
17	231.00	-37.9	-27.3	2643	2691	-14.4	-10.1	-1609.1	-1302.5	355.2	-403.7	0.9
18	244.00	-38.4	-27.3	2643	2691	-14.5	-10.1	-1571.1	-1275.3	338.3	-383.0	0.9
19	257.00	-38.9	-27.2	2643	2691	-14.7	-10.1	-1532.7	-1248.0	321.9	-362.8	0.9
20	270.00	-39.3	-27.2	2643	2691	-14.9	-10.1	-1493.9	-1220.8	305.8	-343.2	0.9
21	283.00	-39.8	-27.2	2643	2691	-15.0	-10.1	-1454.6	-1193.5	290.1	-324.0	0.9
22	296.00	-40.2	-27.2	2643	2691	-15.2	-10.1	-1414.8	-1166.3	274.8	-305.4	0.8
23	309.00	-40.7	-27.2	2643	2691	-15.4	-10.1	-1374.6	-1139.2	259.8	-287.2	0.8
24	322.00	-41.1	-27.3	2643	2691	-15.5	-10.2	-1333.9	-1112.0	245.2	-269.6	0.8
25	335.00	-41.4	-27.9	2643	2691	-15.7	-10.4	-1292.8	-1084.7	230.9	-252.5	0.8
26	348.00	-41.7	-28.6	2643	2691	-15.8	-10.6	-1251.4	-1056.4	217.0	-236.0	0.8
27	361.00	-41.9	-29.2	2643	2691	-15.9	-10.8	-1209.7	-1028.2	203.4	-220.0	0.7
28	374.00	-42.2	-29.8	2643	2691	-16.0	-11.1	-1167.8	-999.0	190.3	-204.6	0.7
29	387.00	-42.5	-30.4	2643	2691	-16.1	-11.3	-1125.6	-969.8	177.5	-189.6	0.7
30	400.00	-42.8	-31.0	2643	2691	-16.2	-11.5	-1083.0	-938.8	165.1	-175.3	0.7
31	413.00	-43.1	-31.6	2643	2691	-16.3	-11.8	-1040.2	-907.8	153.1	-161.5	0.7
32	426.00	-42.9	-31.9	2643	2691	-16.2	-11.9	-997.2	-876.1	141.5	-148.2	0.7
33	439.00	-42.5	-32.1	2643	2691	-16.1	-11.9	-954.2	-844.2	130.3	-135.6	0.7
34	452.00	-42.1	-32.3	2643	2691	-15.9	-12.0	-911.7	-812.0	119.5	-123.4	0.6
35	465.00	-41.7	-32.3	2643	2691	-15.8	-12.0	-869.6	-780.7	109.2	-111.9	0.6
36	478.00	-41.3	-32.4	2643	2691	-15.6	-12.0	-827.8	-747.7	99.2	-100.8	0.5
37	491.00	-40.9	-32.5	2643	2691	-15.5	-12.1	-786.5	-715.3	89.7	-90.3	0.5
38	504.00	-40.5	-32.6	2643	2691	-15.3	-12.1	-745.7	-682.8	80.6	-80.4	0.4
39	517.00	-40.1	-32.7	2643	2691	-15.2	-12.2	-705.2	-650.2	72.0	-70.9	0.4
40	530.00	-41.5	-33.5	2643	2691	-15.7	-12.5	-665.1	-617.5	63.9	-62.0	0.3
41	543.00	-43.2	-34.4	2643	2691	-16.3	-12.8	-623.6	-583.9	55.9	-53.7	1.2
42	556.00	-44.8	-35.3	2643	2691	-16.9	-13.1	-580.4	-549.5	48.6	-45.8	1.5
43	569.00	-46.4	-36.2	2643	2691	-17.6	-13.4	-535.7	-514.2	41.7	-38.6	1.7
44	582.00	-48.1	-37.0	2643	2691	-18.2	-13.8	-489.2	-478.0	35.2	-31.9	1.8
45	595.00	-49.7	-37.9	2643	2691	-18.8	-14.1	-441.0	-441.0	29.2	-25.9	1.9
46	608.00	-51.3	-38.8	2643	2691	-19.4	-14.4	-391.5	-403.1	23.7	-20.5	2.0
47	621.00	-52.1	-40.1	2643	2691	-19.7	-14.9	-340.2	-364.3	18.8	-15.7	2.0
48	634.00	-53.2	-46.3	2847	2599	-18.7	-17.8	-288.1	-324.7	14.3	-11.6	2.0
49	648.00	-50.3	-49.6	2847	2403	-17.7	-20.7	-234.8	-277.8	10.1	-8.0	1.9
50	662.00	-49.1	-53.6	2847	2203	-17.3	-24.3	-184.5	-228.2	6.5	-5.0	1.8
51	676.00	-48.2	-56.2	2847	2007	-16.9	-28.0	-135.4	-174.5	3.7	-2.8	1.6
PENT	690.00	-87.2	-118.3	5693	3733	-15.3	-31.7	-87.2	-118.3	1.7	-1.2	1.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 100 YEAR WIND
WIND DIRECTION 350 CONFIGURATION A REFERENCE PRESSURE 45.0 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
STRT	0.00	-62.9	-37.4	5449	5023	-11.5	-7.4	-2382.3	-1994.4	812.0	-905.5	-8.58
MEZZ	22.00	-44.2	-26.4	2847	2898	-15.5	-9.1	-2319.4	-1957.0	768.6	-853.7	-8.01
2	36.00	-39.3	-24.5	2643	2691	-14.9	-9.1	-2275.3	-1930.6	741.4	-821.6	-8.01
3	49.00	-37.7	-24.4	2643	2691	-14.3	-9.1	-2235.9	-1906.1	716.4	-792.3	-8.13
4	62.00	-36.1	-24.4	2643	2691	-13.7	-9.1	-2198.2	-1881.7	691.8	-763.4	-8.13
5	75.00	-34.5	-24.4	2643	2691	-13.1	-9.1	-2162.1	-1857.3	667.5	-735.1	-8.13
6	88.00	-32.9	-24.3	2643	2691	-12.4	-9.0	-2127.6	-1833.0	643.5	-707.2	-8.56
7	101.00	-31.3	-24.3	2643	2691	-11.8	-9.0	-2094.7	-1808.6	619.8	-679.8	-8.66
8	114.00	-29.7	-24.2	2643	2691	-11.2	-9.0	-2063.4	-1784.3	596.5	-652.7	-8.67
9	127.00	-30.3	-24.9	2643	2691	-11.5	-9.3	-2033.8	-1760.1	573.4	-626.1	-8.77
10	140.00	-31.9	-26.0	2643	2691	-12.1	-9.6	-2003.5	-1735.2	550.7	-599.9	-8.77
11	153.00	-33.6	-27.0	2643	2691	-12.7	-10.0	-1971.6	-1709.2	528.3	-574.0	-8.76
12	166.00	-35.2	-28.0	2643	2691	-13.3	-10.4	-1938.0	-1682.2	506.3	-548.6	-8.76
13	179.00	-36.9	-29.0	2643	2691	-13.9	-10.8	-1902.8	-1654.2	484.6	-523.6	-8.76
14	192.00	-38.5	-30.1	2643	2691	-14.6	-11.2	-1866.0	-1625.2	463.3	-499.1	-8.65
15	205.00	-40.2	-31.1	2643	2691	-15.2	-11.5	-1827.4	-1595.1	442.4	-475.1	-8.43
16	218.00	-41.8	-32.1	2643	2691	-15.8	-11.9	-1787.3	-1564.1	421.8	-451.6	-8.43
17	231.00	-42.2	-32.6	2643	2691	-16.0	-12.1	-1745.5	-1532.0	401.7	-428.7	-8.10
18	244.00	-42.5	-33.2	2643	2691	-16.1	-12.3	-1703.3	-1499.3	382.0	-406.3	-8.76
19	257.00	-42.9	-33.7	2643	2691	-16.2	-12.5	-1660.7	-1466.2	362.7	-384.4	-7.86
20	270.00	-43.2	-34.2	2643	2691	-16.4	-12.7	-1617.9	-1432.5	343.9	-363.1	-7.86
21	283.00	-43.6	-34.7	2643	2691	-16.5	-12.9	-1574.6	-1398.3	325.5	-342.3	-7.53
22	296.00	-44.0	-35.2	2643	2691	-16.6	-13.1	-1531.0	-1363.6	307.5	-322.1	-7.53
23	309.00	-44.3	-35.7	2643	2691	-16.8	-13.3	-1487.1	-1328.4	290.0	-302.5	-7.19
24	322.00	-44.8	-36.2	2643	2691	-16.9	-13.5	-1442.8	-1292.6	273.0	-283.5	-7.19
25	335.00	-45.6	-36.7	2643	2691	-17.2	-13.8	-1398.0	-1256.4	256.4	-265.0	-6.75
26	348.00	-46.4	-37.2	2643	2691	-17.5	-13.8	-1352.4	-1219.7	240.3	-247.1	-6.53
27	361.00	-47.2	-37.6	2643	2691	-17.9	-14.0	-1306.0	-1182.5	224.7	-229.9	-6.53
28	374.00	-48.0	-38.1	2643	2691	-18.2	-14.2	-1258.8	-1144.9	209.6	-213.2	-6.19
29	387.00	-48.8	-38.6	2643	2691	-18.5	-14.3	-1210.8	-1106.8	194.9	-197.1	-5.97
30	400.00	-49.6	-39.0	2643	2691	-18.8	-14.5	-1162.0	-1068.2	180.8	-181.7	-5.75
31	413.00	-50.4	-39.5	2643	2691	-19.1	-14.7	-1112.4	-1029.2	167.2	-166.9	-5.52
32	426.00	-50.2	-39.6	2643	2691	-19.0	-14.7	-1062.1	-989.7	154.1	-152.8	-5.52
33	439.00	-49.4	-39.4	2643	2691	-18.7	-14.6	-1011.8	-950.1	141.4	-139.3	-5.07
34	452.00	-48.6	-39.2	2643	2691	-18.4	-14.6	-962.4	-910.7	129.3	-126.5	-4.74
35	465.00	-47.8	-39.0	2643	2691	-18.1	-14.5	-913.8	-871.5	117.8	-114.3	-4.74
36	478.00	-47.0	-38.9	2643	2691	-17.8	-14.4	-865.9	-832.5	106.7	-102.7	-4.52
37	491.00	-46.2	-38.7	2643	2691	-17.5	-14.4	-818.9	-793.7	96.1	-91.8	-3.85
38	504.00	-45.5	-38.5	2643	2691	-17.2	-14.3	-772.7	-755.0	86.1	-81.4	-3.51
39	517.00	-44.7	-38.3	2643	2691	-16.9	-14.2	-727.2	-716.5	76.5	-71.7	-3.18
40	530.00	-45.6	-39.3	2643	2691	-17.2	-14.6	-682.6	-678.2	67.4	-62.5	-2.84
41	543.00	-46.7	-40.4	2643	2691	-17.7	-15.0	-637.0	-638.9	58.9	-53.9	-2.84
42	556.00	-47.8	-41.5	2643	2691	-18.1	-15.4	-590.3	-598.5	50.8	-46.0	-2.41
43	569.00	-48.9	-42.6	2643	2691	-18.5	-15.8	-542.5	-557.0	43.3	-38.6	-1.74
44	582.00	-50.0	-43.7	2643	2691	-18.9	-16.2	-493.7	-514.5	36.3	-31.9	-1.74
45	595.00	-51.1	-44.8	2643	2691	-19.3	-16.6	-443.7	-470.8	29.9	-25.8	-1.29
46	608.00	-52.2	-45.8	2643	2691	-19.7	-17.0	-392.6	-426.0	24.1	-20.3	-.96
47	621.00	-52.5	-46.9	2643	2691	-19.9	-17.4	-340.4	-380.2	18.9	-15.6	-.42
48	634.00	-54.0	-52.3	2847	2599	-19.0	-20.1	-287.9	-333.3	14.2	-11.5	-.42
49	648.00	-51.3	-54.4	2847	2403	-18.0	-22.6	-233.9	-280.9	9.9	-7.8	-.21
50	662.00	-49.7	-55.8	2847	2203	-17.5	-25.3	-182.6	-226.6	6.4	-4.9	-.21
51	676.00	-48.3	-56.3	2847	2007	-17.0	-28.1	-132.9	-170.8	3.6	-2.7	-.21
PENT	690.00	-84.6	-114.4	5693	3733	-14.9	-30.6	-84.6	-114.4	1.6	-1.2	-.11

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 0 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-46.1	-34.5	5449	5023	-8.5	-6.9	-1389.1	-1931.5	803.4	-460.7	-20.3
MEZZ	22.00	-41.8	-21.0	2847	2898	-14.7	-7.2	-1342.9	-1897.0	761.2	-430.7	-18.7
2	36.00	-36.9	-19.4	2643	2691	-13.9	-7.2	-1301.1	-1876.0	734.8	-412.5	-18.6
3	49.00	-34.9	-19.4	2643	2691	-13.2	-7.2	-1264.2	-1856.5	710.6	-395.5	-18.6
4	62.00	-33.0	-19.3	2643	2691	-12.5	-7.2	-1229.3	-1837.2	686.6	-379.3	-18.6
5	75.00	-31.1	-19.3	2643	2691	-11.8	-7.2	-1196.3	-1817.8	662.8	-363.5	-18.5
6	88.00	-29.2	-19.2	2643	2691	-11.0	-7.2	-1165.2	-1798.5	639.3	-348.2	-18.4
7	101.00	-27.2	-19.2	2643	2691	-10.3	-7.1	-1136.1	-1779.3	616.0	-333.2	-18.3
8	114.00	-25.3	-19.1	2643	2691	-9.6	-7.1	-1108.8	-1760.1	593.0	-318.6	-18.1
9	127.00	-24.9	-20.1	2643	2691	-9.4	-7.5	-1083.5	-1741.0	570.3	-304.4	-18.0
10	140.00	-25.3	-21.5	2643	2691	-9.6	-8.0	-1058.6	-1720.8	547.8	-290.5	-17.8
11	153.00	-25.6	-23.0	2643	2691	-9.7	-8.5	-1033.3	-1699.3	525.5	-276.9	-17.7
12	166.00	-26.0	-24.4	2643	2691	-9.8	-9.1	-1007.7	-1676.3	503.6	-263.6	-17.4
13	179.00	-26.4	-25.9	2643	2691	-10.0	-9.6	-981.7	-1651.9	482.0	-250.7	-17.2
14	192.00	-26.7	-27.3	2643	2691	-10.1	-10.1	-955.3	-1626.1	460.7	-238.1	-17.0
15	205.00	-27.1	-28.7	2643	2691	-10.2	-10.7	-928.6	-1598.8	439.7	-225.8	-16.7
16	218.00	-27.4	-30.2	2643	2691	-10.4	-11.2	-901.6	-1570.0	419.1	-213.9	-16.4
17	231.00	-27.3	-30.9	2643	2691	-10.3	-11.5	-874.1	-1539.9	398.9	-202.4	-16.1
18	244.00	-27.2	-31.5	2643	2691	-10.3	-11.7	-846.8	-1509.0	379.1	-191.2	-15.8
19	257.00	-27.1	-32.2	2643	2691	-10.2	-12.0	-819.6	-1477.5	359.7	-180.4	-15.5
20	270.00	-27.0	-32.9	2643	2691	-10.2	-12.2	-792.5	-1445.3	340.7	-169.9	-15.1
21	283.00	-26.9	-33.6	2643	2691	-10.2	-12.5	-765.6	-1412.4	322.1	-159.8	-14.8
22	296.00	-26.8	-34.3	2643	2691	-10.1	-12.7	-738.7	-1378.8	303.9	-150.0	-14.4
23	309.00	-26.6	-34.9	2643	2691	-10.1	-13.0	-711.9	-1344.5	286.2	-140.6	-14.0
24	322.00	-26.4	-35.7	2643	2691	-10.0	-13.2	-685.3	-1309.6	269.0	-131.5	-13.6
25	335.00	-25.9	-36.4	2643	2691	-9.8	-13.5	-658.9	-1273.9	252.2	-122.7	-13.2
26	348.00	-25.4	-37.2	2643	2691	-9.6	-13.8	-633.0	-1237.5	235.9	-114.3	-12.8
27	361.00	-24.9	-38.0	2643	2691	-9.4	-14.1	-607.6	-1200.3	220.0	-106.3	-12.4
28	374.00	-24.4	-38.8	2643	2691	-9.2	-14.4	-582.7	-1162.3	204.7	-98.5	-11.9
29	387.00	-23.9	-39.5	2643	2691	-9.0	-14.7	-558.3	-1123.6	189.8	-91.1	-11.5
30	400.00	-23.4	-40.3	2643	2691	-8.8	-15.0	-534.4	-1084.0	175.5	-84.0	-11.1
31	413.00	-22.9	-41.1	2643	2691	-8.6	-15.3	-511.1	-1043.7	161.6	-77.2	-10.6
32	426.00	-22.6	-41.6	2643	2691	-8.5	-15.4	-488.2	-1002.6	148.3	-70.7	-10.1
33	439.00	-22.4	-41.8	2643	2691	-8.5	-15.5	-465.6	-961.1	135.6	-64.5	-9.7
34	452.00	-22.3	-42.1	2643	2691	-8.4	-15.6	-443.2	-919.2	123.4	-58.6	-9.2
35	465.00	-22.2	-42.4	2643	2691	-8.4	-15.7	-420.9	-877.1	111.7	-53.0	-8.8
36	478.00	-22.1	-42.6	2643	2691	-8.3	-15.8	-398.7	-834.8	100.5	-47.7	-8.3
37	491.00	-21.9	-42.9	2643	2691	-8.3	-16.0	-376.6	-792.1	90.0	-42.6	-7.9
38	504.00	-21.8	-43.2	2643	2691	-8.2	-16.1	-354.7	-749.2	80.0	-37.9	-7.5
39	517.00	-21.7	-43.5	2643	2691	-8.2	-16.2	-332.9	-706.0	70.5	-33.4	-7.1
40	530.00	-21.6	-44.2	2643	2691	-8.2	-16.4	-311.2	-662.5	61.6	-29.2	-6.7
41	543.00	-21.6	-44.9	2643	2691	-8.2	-16.7	-289.6	-618.4	53.3	-25.3	-6.3
42	556.00	-21.5	-45.7	2643	2691	-8.1	-17.0	-268.0	-573.4	45.5	-21.7	-5.8
43	569.00	-21.5	-46.4	2643	2691	-8.1	-17.2	-246.4	-527.8	38.4	-18.4	-5.4
44	582.00	-21.4	-47.2	2643	2691	-8.1	-17.5	-225.0	-481.4	31.8	-15.3	-4.9
45	595.00	-21.4	-47.9	2643	2691	-8.1	-17.8	-203.5	-434.2	25.9	-12.5	-4.5
46	608.00	-21.3	-48.7	2643	2691	-8.1	-18.1	-182.1	-386.3	20.5	-10.0	-4.0
47	621.00	-21.3	-49.0	2643	2691	-8.1	-18.2	-160.8	-337.6	15.8	-7.8	-3.5
48	634.00	-23.0	-51.8	2847	2599	-8.1	-19.9	-139.5	-288.6	11.7	-5.8	-2.9
49	648.00	-23.6	-50.4	2847	2403	-8.1	-21.0	-116.5	-236.8	8.1	-4.0	-2.5
50	662.00	-23.9	-49.2	2847	2203	-8.4	-22.3	-93.6	-186.5	5.1	-2.6	-2.0
51	676.00	-25.1	-47.6	2847	2007	-8.8	-23.7	-69.6	-137.2	2.8	-1.4	-1.5
PENT	690.00	-44.5	-89.6	5693	3733	-7.8	-24.0	-44.5	-89.6	1.3	-.6	-.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-44.6	-46.6	5449	5023	-8.2	-9.3	-1678.8	-1833.9	765.4	-559.3	-41.2
MEZZ	22.00	-45.6	-21.4	2847	2898	-16.0	-7.4	-1634.2	-1787.3	725.5	-522.9	-38.8
2	36.00	-40.4	-19.7	2643	2691	-15.3	-7.3	-1588.5	-1765.9	700.7	-500.3	-38.8
3	49.00	-38.6	-19.5	2643	2691	-14.6	-7.2	-1548.1	-1746.3	672.8	-479.9	-38.8
4	62.00	-36.7	-19.3	2643	2691	-13.9	-7.2	-1509.5	-1726.8	645.3	-460.1	-38.7
5	75.00	-34.8	-19.1	2643	2691	-13.2	-7.1	-1472.8	-1707.5	632.9	-440.7	-38.6
6	88.00	-32.9	-18.9	2643	2691	-12.5	-7.0	-1438.0	-1688.4	616.9	-421.8	-38.4
7	101.00	-31.1	-18.7	2643	2691	-11.8	-7.0	-1405.1	-1669.5	589.0	-403.3	-38.2
8	114.00	-29.2	-18.5	2643	2691	-11.0	-6.9	-1374.0	-1650.7	567.5	-385.2	-38.0
9	127.00	-29.3	-18.9	2643	2691	-11.1	-7.0	-1344.8	-1632.2	546.1	-367.5	-37.7
10	140.00	-30.4	-19.5	2643	2691	-11.5	-7.3	-1315.5	-1613.3	525.0	-350.2	-37.4
11	153.00	-31.5	-20.1	2643	2691	-11.9	-7.5	-1285.0	-1593.8	504.2	-333.3	-37.1
12	166.00	-32.6	-20.8	2643	2691	-12.3	-7.7	-1253.6	-1573.7	483.6	-316.8	-36.7
13	179.00	-33.6	-21.4	2643	2691	-12.7	-7.9	-1221.0	-1552.9	463.3	-300.8	-36.3
14	192.00	-34.7	-22.0	2643	2691	-13.1	-8.2	-1187.4	-1531.5	443.2	-285.1	-35.8
15	205.00	-35.8	-22.6	2643	2691	-13.5	-8.4	-1152.7	-1509.5	423.4	-269.9	-35.3
16	218.00	-36.9	-23.2	2643	2691	-13.9	-8.6	-1116.9	-1486.9	404.0	-255.1	-34.7
17	231.00	-36.7	-24.3	2643	2691	-13.9	-9.0	-1080.0	-1463.7	384.8	-240.9	-34.1
18	244.00	-36.5	-25.3	2643	2691	-13.8	-9.4	-1043.4	-1439.4	365.9	-227.1	-33.5
19	257.00	-36.3	-26.4	2643	2691	-13.7	-9.8	-1006.9	-1414.1	347.4	-213.7	-32.9
20	270.00	-36.1	-27.5	2643	2691	-13.6	-10.2	-970.6	-1387.7	329.2	-200.9	-32.3
21	283.00	-35.9	-28.5	2643	2691	-13.6	-10.6	-934.6	-1360.2	311.3	-188.5	-31.6
22	296.00	-35.7	-29.6	2643	2691	-13.5	-11.0	-898.7	-1331.7	293.7	-176.6	-31.0
23	309.00	-35.4	-30.6	2643	2691	-13.4	-11.4	-863.1	-1302.1	276.7	-165.1	-30.3
24	322.00	-35.1	-31.7	2643	2691	-13.3	-11.8	-827.6	-1271.5	260.0	-154.1	-29.7
25	335.00	-34.6	-32.7	2643	2691	-13.1	-12.2	-792.5	-1239.8	243.6	-143.6	-29.0
26	348.00	-34.0	-33.8	2643	2691	-12.9	-12.6	-757.9	-1207.0	227.7	-133.5	-28.2
27	361.00	-33.4	-34.8	2643	2691	-12.6	-12.9	-724.0	-1173.2	212.3	-123.9	-27.4
28	374.00	-32.8	-35.9	2643	2691	-12.4	-13.3	-690.6	-1138.4	197.2	-114.7	-26.6
29	387.00	-32.2	-36.9	2643	2691	-12.2	-13.7	-657.7	-1102.6	182.7	-105.9	-25.8
30	400.00	-31.7	-37.9	2643	2691	-12.0	-14.1	-625.5	-1065.7	168.6	-97.6	-24.8
31	413.00	-31.1	-39.0	2643	2691	-11.8	-14.5	-593.8	-1027.7	155.0	-89.7	-23.8
32	426.00	-30.0	-40.0	2643	2691	-11.4	-14.9	-562.7	-988.8	141.9	-82.2	-22.8
33	439.00	-28.6	-41.1	2643	2691	-10.8	-15.3	-532.7	-948.7	129.3	-75.0	-21.8
34	452.00	-27.2	-42.2	2643	2691	-10.3	-15.7	-504.1	-907.6	117.2	-68.3	-20.8
35	465.00	-25.8	-43.3	2643	2691	-9.8	-16.1	-476.9	-865.4	105.7	-61.9	-19.7
36	478.00	-24.4	-44.3	2643	2691	-9.2	-16.5	-451.1	-822.1	94.7	-55.9	-18.7
37	491.00	-23.0	-45.4	2643	2691	-8.7	-16.9	-426.7	-777.8	84.3	-50.2	-17.7
38	504.00	-21.6	-46.5	2643	2691	-8.2	-17.3	-403.7	-732.4	74.5	-44.8	-16.7
39	517.00	-20.2	-47.6	2643	2691	-7.6	-17.7	-382.1	-685.9	65.3	-39.7	-15.6
40	530.00	-21.0	-47.7	2643	2691	-7.9	-17.7	-361.9	-638.3	56.7	-34.8	-14.6
41	543.00	-22.0	-47.7	2643	2691	-8.3	-17.7	-340.9	-590.6	48.7	-30.3	-13.6
42	556.00	-23.0	-47.7	2643	2691	-8.7	-17.7	-318.9	-542.9	41.3	-26.0	-12.5
43	569.00	-24.0	-47.8	2643	2691	-9.1	-17.7	-295.9	-495.1	34.6	-22.0	-11.4
44	582.00	-25.0	-47.8	2643	2691	-9.5	-17.8	-271.9	-447.4	28.4	-18.3	-10.3
45	595.00	-26.0	-47.8	2643	2691	-9.8	-17.8	-246.9	-399.6	22.9	-14.9	-9.2
46	608.00	-27.0	-47.8	2643	2691	-10.2	-17.8	-220.9	-351.8	18.0	-11.9	-8.0
47	621.00	-27.7	-47.4	2643	2691	-10.5	-17.6	-193.9	-304.0	13.8	-9.2	-6.9
48	634.00	-29.2	-49.2	2847	2599	-10.3	-18.9	-166.2	-256.6	10.1	-6.8	-5.7
49	648.00	-28.6	-47.0	2847	2403	-10.1	-19.5	-136.9	-207.4	6.9	-4.7	-4.5
50	662.00	-27.8	-44.3	2847	2203	-9.8	-20.1	-108.3	-160.4	4.3	-3.0	-3.4
51	676.00	-26.9	-41.4	2847	2007	-9.5	-20.6	-80.5	-116.1	2.4	-1.7	-2.4
PENT	690.00	-53.5	-74.7	5693	3733	-9.4	-20.0	-53.5	-74.7	1.0	-.7	-1.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 20 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-68.6	-51.5	5449	5023	-12.6	-10.3	-2526.8	-1205.8	509.2	-901.0	-35.3
MEZZ	22.00	-54.2	-15.8	2847	2898	-19.0	-5.5	-2458.2	-1154.3	483.2	-846.2	-33.0
2	36.00	-49.3	-13.8	2643	2691	-18.6	-5.1	-2404.0	-1138.5	467.2	-812.1	-33.0
3	49.00	-48.3	-13.0	2643	2691	-18.3	-4.8	-2354.7	-1124.6	452.4	-781.2	-32.9
4	62.00	-47.2	-12.2	2643	2691	-17.9	-4.5	-2306.5	-1111.6	437.9	-750.9	-32.8
5	75.00	-46.2	-11.4	2643	2691	-17.5	-4.2	-2259.2	-1099.4	423.5	-721.2	-32.7
6	88.00	-45.2	-10.5	2643	2691	-17.1	-3.9	-2213.0	-1088.1	409.3	-692.1	-32.6
7	101.00	-44.2	-9.7	2643	2691	-16.7	-3.6	-2167.8	-1077.5	395.2	-663.7	-32.5
8	114.00	-43.2	-8.9	2643	2691	-16.3	-3.3	-2123.6	-1067.8	381.3	-635.8	-32.3
9	127.00	-43.2	-8.9	2643	2691	-16.4	-3.3	-2080.4	-1058.9	367.5	-608.4	-32.2
10	140.00	-43.8	-9.2	2643	2691	-16.6	-3.4	-2037.2	-1050.0	353.8	-581.7	-32.0
11	153.00	-44.3	-9.6	2643	2691	-16.8	-3.6	-1993.4	-1040.8	340.2	-555.5	-31.7
12	166.00	-44.9	-10.0	2643	2691	-17.0	-3.7	-1949.0	-1031.2	326.7	-529.9	-31.5
13	179.00	-45.4	-10.3	2643	2691	-17.2	-3.8	-1904.1	-1021.2	313.4	-504.8	-31.2
14	192.00	-46.0	-10.7	2643	2691	-17.4	-4.0	-1858.7	-1010.9	300.2	-480.4	-30.8
15	205.00	-46.5	-11.0	2643	2691	-17.6	-4.1	-1812.7	-1000.2	287.1	-456.5	-30.4
16	218.00	-47.1	-11.4	2643	2691	-17.8	-4.2	-1766.2	-989.2	274.2	-433.2	-30.0
17	231.00	-47.1	-12.5	2643	2691	-17.8	-4.6	-1719.1	-977.8	261.4	-410.6	-29.5
18	244.00	-47.1	-13.5	2643	2691	-17.8	-5.0	-1671.9	-965.3	248.7	-388.5	-29.1
19	257.00	-47.1	-14.6	2643	2691	-17.8	-5.4	-1624.8	-951.8	236.3	-367.1	-28.5
20	270.00	-47.1	-15.7	2643	2691	-17.8	-5.8	-1577.7	-937.2	224.0	-346.3	-28.0
21	283.00	-47.1	-16.7	2643	2691	-17.8	-6.2	-1530.6	-921.6	211.9	-326.1	-27.4
22	296.00	-47.2	-17.8	2643	2691	-17.8	-6.6	-1483.4	-904.8	200.0	-306.5	-26.9
23	309.00	-47.2	-18.9	2643	2691	-17.8	-7.0	-1436.2	-887.1	188.4	-287.5	-26.2
24	322.00	-47.2	-19.9	2643	2691	-17.8	-7.4	-1389.1	-868.2	177.0	-269.1	-25.6
25	335.00	-47.1	-21.0	2643	2691	-17.8	-7.8	-1341.9	-848.3	165.8	-251.4	-24.9
26	348.00	-47.0	-22.1	2643	2691	-17.8	-8.2	-1294.8	-827.3	154.9	-234.3	-24.2
27	361.00	-47.0	-23.1	2643	2691	-17.8	-8.6	-1247.8	-805.2	144.3	-217.7	-23.5
28	374.00	-46.9	-24.2	2643	2691	-17.7	-9.0	-1200.9	-782.1	134.0	-201.8	-22.8
29	387.00	-46.8	-25.3	2643	2691	-17.7	-9.4	-1154.0	-757.9	124.0	-186.5	-22.0
30	400.00	-46.8	-26.3	2643	2691	-17.7	-9.8	-1107.1	-732.6	114.3	-171.8	-21.2
31	413.00	-46.7	-27.4	2643	2691	-17.7	-10.2	-1060.4	-706.3	105.0	-157.7	-20.3
32	426.00	-46.6	-28.2	2643	2691	-17.6	-10.5	-1013.7	-678.9	96.0	-144.2	-19.5
33	439.00	-46.4	-28.9	2643	2691	-17.5	-10.7	-967.1	-650.7	87.3	-131.4	-18.6
34	452.00	-46.2	-29.5	2643	2691	-17.5	-11.0	-920.7	-621.8	79.0	-119.1	-17.7
35	465.00	-46.0	-30.2	2643	2691	-17.4	-11.2	-874.6	-592.3	71.2	-107.4	-16.8
36	478.00	-45.8	-30.9	2643	2691	-17.3	-11.5	-828.6	-562.1	63.7	-96.4	-15.9
37	491.00	-45.6	-31.5	2643	2691	-17.2	-11.7	-782.8	-531.2	56.5	-85.9	-15.0
38	504.00	-45.4	-32.2	2643	2691	-17.2	-12.0	-737.3	-499.7	49.8	-76.0	-14.0
39	517.00	-45.2	-32.8	2643	2691	-17.1	-12.2	-691.9	-467.5	43.6	-66.7	-13.1
40	530.00	-45.7	-33.1	2643	2691	-17.3	-12.3	-646.7	-434.7	37.7	-58.0	-12.2
41	543.00	-46.4	-33.2	2643	2691	-17.5	-12.4	-600.9	-401.6	32.3	-49.9	-11.2
42	556.00	-47.0	-33.4	2643	2691	-17.8	-12.4	-554.6	-368.4	27.3	-42.4	-10.3
43	569.00	-47.7	-33.6	2643	2691	-18.0	-12.5	-507.5	-334.9	22.7	-35.5	-9.3
44	582.00	-48.3	-33.8	2643	2691	-18.3	-12.6	-459.9	-301.3	18.5	-29.2	-8.4
45	595.00	-48.9	-34.0	2643	2691	-18.5	-12.6	-411.6	-267.5	14.8	-23.5	-7.4
46	608.00	-49.6	-34.1	2643	2691	-18.8	-12.7	-362.6	-233.6	11.6	-18.5	-6.4
47	621.00	-49.6	-33.7	2643	2691	-18.8	-12.5	-313.0	-199.4	8.8	-14.1	-5.5
48	634.00	-51.0	-33.8	2847	2599	-17.9	-13.0	-263.4	-165.7	6.4	-10.4	-4.5
49	648.00	-48.5	-31.1	2847	2403	-17.1	-12.9	-212.4	-132.0	4.3	-7.0	-3.6
50	662.00	-45.5	-28.5	2847	2203	-16.0	-12.9	-163.9	-100.9	2.7	-4.4	-2.7
51	676.00	-42.4	-26.4	2847	2007	-14.9	-13.1	-118.3	-72.4	1.5	-2.4	-1.9
PENT	690.00	-75.9	-46.1	5693	3733	-13.3	-12.3	-75.9	-46.1	.6	-1.1	-1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 30 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-95.4	-49.4	5449	5023	-17.5	-9.8	-3292.7	-861.6	359.7	-1200.9	-26.0
MEZZ	22.00	-62.2	-8.6	2847	2898	-21.9	-3.0	-3197.3	-812.2	341.3	-1129.5	-24.2
2	36.00	-57.1	-7.5	2643	2691	-21.6	-2.8	-3135.1	-803.6	330.0	-1085.2	-24.2
3	49.00	-56.4	-7.0	2643	2691	-21.3	-2.6	-3078.0	-796.2	319.6	-1044.8	-24.0
4	62.00	-55.7	-6.5	2643	2691	-21.1	-2.4	-3021.5	-789.2	309.2	-1005.2	-23.9
5	75.00	-55.1	-6.0	2643	2691	-20.8	-2.2	-2965.8	-782.7	299.0	-966.3	-23.7
6	88.00	-54.4	-5.5	2643	2691	-20.6	-2.1	-2910.7	-776.7	288.9	-928.1	-23.5
7	101.00	-53.7	-5.1	2643	2691	-20.3	-1.9	-2856.4	-771.1	278.8	-890.6	-23.3
8	114.00	-53.0	-4.6	2643	2691	-20.1	-1.7	-2802.7	-766.1	268.8	-853.8	-23.1
9	127.00	-53.3	-4.8	2643	2691	-20.2	-1.8	-2749.6	-761.5	258.9	-817.7	-22.8
10	140.00	-54.1	-5.4	2643	2691	-20.5	-2.0	-2696.3	-756.7	249.0	-782.3	-22.5
11	153.00	-54.9	-6.0	2643	2691	-20.8	-2.2	-2642.2	-751.3	239.2	-747.6	-22.1
12	166.00	-55.6	-6.6	2643	2691	-21.0	-2.5	-2587.4	-745.2	229.5	-713.6	-21.8
13	179.00	-56.4	-7.2	2643	2691	-21.3	-2.7	-2531.8	-738.6	219.9	-680.3	-21.4
14	192.00	-57.2	-7.8	2643	2691	-21.6	-2.9	-2475.4	-731.4	210.3	-647.8	-21.0
15	205.00	-57.9	-8.4	2643	2691	-21.9	-3.1	-2418.2	-723.6	200.9	-616.0	-20.5
16	218.00	-58.7	-9.0	2643	2691	-22.2	-3.4	-2360.3	-715.2	191.5	-584.9	-20.0
17	231.00	-58.9	-10.0	2643	2691	-22.3	-3.7	-2301.6	-706.1	182.3	-554.6	-19.5
18	244.00	-59.0	-11.0	2643	2691	-22.3	-4.1	-2242.8	-696.1	173.2	-525.1	-19.0
19	257.00	-59.2	-12.0	2643	2691	-22.4	-4.5	-2183.8	-685.1	164.2	-496.3	-18.5
20	270.00	-59.3	-13.1	2643	2691	-22.4	-4.9	-2124.6	-673.0	155.3	-468.3	-18.0
21	283.00	-59.5	-14.1	2643	2691	-22.5	-5.2	-2065.2	-660.0	146.7	-441.1	-17.5
22	296.00	-59.7	-15.1	2643	2691	-22.6	-5.6	-2005.7	-645.9	138.2	-414.6	-16.9
23	309.00	-59.8	-16.1	2643	2691	-22.6	-6.0	-1946.1	-630.8	129.9	-388.9	-16.4
24	322.00	-60.1	-16.9	2643	2691	-22.7	-6.3	-1886.3	-614.7	121.8	-364.0	-15.9
25	335.00	-60.8	-17.3	2643	2691	-23.0	-6.4	-1826.1	-597.8	113.9	-339.9	-15.4
26	348.00	-61.5	-17.7	2643	2691	-23.3	-6.6	-1765.3	-580.5	106.3	-316.5	-14.9
27	361.00	-62.1	-18.1	2643	2691	-23.5	-6.7	-1703.9	-562.8	98.8	-294.0	-14.3
28	374.00	-62.8	-18.4	2643	2691	-23.8	-6.9	-1641.7	-544.7	91.6	-272.2	-13.8
29	387.00	-63.5	-18.8	2643	2691	-24.0	-7.0	-1578.9	-526.3	84.7	-251.3	-13.3
30	400.00	-64.1	-19.2	2643	2691	-24.3	-7.1	-1515.5	-507.5	77.9	-231.2	-12.8
31	413.00	-64.8	-19.6	2643	2691	-24.5	-7.3	-1451.3	-488.3	71.5	-211.9	-12.2
32	426.00	-65.0	-20.0	2643	2691	-24.6	-7.4	-1386.5	-468.7	65.3	-193.5	-11.7
33	439.00	-65.0	-20.5	2643	2691	-24.6	-7.6	-1321.5	-448.7	59.3	-175.9	-11.2
34	452.00	-64.9	-20.9	2643	2691	-24.5	-7.8	-1256.6	-428.3	53.6	-159.1	-10.6
35	465.00	-64.8	-21.4	2643	2691	-24.5	-8.0	-1191.7	-407.3	48.2	-143.2	-10.1
36	478.00	-64.7	-21.9	2643	2691	-24.5	-8.1	-1126.9	-385.9	43.0	-128.1	-9.5
37	491.00	-64.7	-22.4	2643	2691	-24.5	-8.3	-1062.1	-364.0	38.1	-113.9	-8.9
38	504.00	-64.6	-22.8	2643	2691	-24.4	-8.5	-997.4	-341.6	33.5	-100.5	-8.3
39	517.00	-64.5	-23.3	2643	2691	-24.4	-8.7	-932.8	-318.8	29.3	-88.0	-7.8
40	530.00	-64.9	-23.3	2643	2691	-24.5	-8.7	-868.3	-295.5	25.3	-76.2	-7.2
41	543.00	-65.3	-23.3	2643	2691	-24.7	-8.7	-803.4	-272.1	21.6	-65.4	-6.6
42	556.00	-65.6	-23.3	2643	2691	-24.8	-8.6	-738.2	-248.8	18.2	-55.4	-6.0
43	569.00	-66.0	-23.2	2643	2691	-25.0	-8.6	-672.5	-225.5	15.1	-46.2	-5.4
44	582.00	-66.4	-23.2	2643	2691	-25.1	-8.6	-606.5	-202.3	12.3	-37.9	-4.8
45	595.00	-66.8	-23.2	2643	2691	-25.3	-8.6	-540.1	-179.1	9.8	-30.4	-4.3
46	608.00	-67.2	-23.1	2643	2691	-25.4	-8.6	-473.3	-155.9	7.7	-23.8	-3.7
47	621.00	-66.6	-22.7	2643	2691	-25.2	-8.4	-406.1	-132.8	5.8	-18.1	-3.2
48	634.00	-67.3	-22.8	2847	2599	-23.6	-8.8	-339.5	-110.1	4.2	-13.3	-2.6
49	648.00	-62.7	-21.0	2847	2403	-22.0	-8.7	-272.2	-87.3	2.8	-9.0	-2.1
50	662.00	-58.4	-19.1	2847	2203	-20.5	-8.7	-209.5	-66.3	1.8	-5.6	-1.6
51	676.00	-54.0	-17.4	2847	2007	-19.0	-8.7	-151.1	-47.2	1.0	-3.1	-1.1
PENT	690.00	-97.1	-29.8	5693	3733	-17.1	-8.0	-97.1	-29.8	.4	-1.4	-.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 40 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-108.2	-38.9	5449	5023	-19.9	-7.7	-3627.7	-429.9	171.4	-1319.6	-13.1
MEZZ	22.00	-65.8	-2.2	2847	2898	-23.1	-.8	-3519.5	-391.0	162.4	-1241.0	-11.7
2	36.00	-60.7	-1.8	2643	2691	-23.0	-.7	-3453.7	-388.8	156.9	-1192.2	-11.7
3	49.00	-60.3	-1.6	2643	2691	-22.8	-.6	-3393.0	-387.0	151.9	-1147.7	-11.6
4	62.00	-59.8	-1.4	2643	2691	-22.6	-.5	-3332.8	-385.4	146.8	-1104.0	-11.6
5	75.00	-59.4	-1.2	2643	2691	-22.5	-.4	-3273.0	-384.1	141.8	-1061.0	-11.5
6	88.00	-59.0	-.9	2643	2691	-22.3	-.4	-3213.6	-382.9	136.9	-1018.9	-11.3
7	101.00	-58.6	-.7	2643	2691	-22.2	-.3	-3154.6	-382.0	131.9	-977.5	-11.2
8	114.00	-58.2	-.5	2643	2691	-22.0	-.2	-3096.0	-381.2	126.9	-936.8	-11.0
9	127.00	-58.8	-.9	2643	2691	-22.2	-.3	-3037.8	-380.7	122.0	-897.0	-10.8
10	140.00	-59.9	-1.5	2643	2691	-22.6	-.6	-2979.1	-379.8	117.0	-857.9	-10.6
11	153.00	-60.9	-2.2	2643	2691	-23.1	-.8	-2919.2	-378.3	112.1	-819.5	-10.3
12	166.00	-62.0	-2.8	2643	2691	-23.5	-1.0	-2858.3	-376.2	107.2	-782.0	-10.1
13	179.00	-63.1	-3.4	2643	2691	-23.9	-1.3	-2796.2	-373.3	102.3	-745.2	-9.8
14	192.00	-64.2	-4.1	2643	2691	-24.3	-1.5	-2733.1	-369.9	97.5	-709.3	-9.5
15	205.00	-65.3	-4.7	2643	2691	-24.7	-1.8	-2668.9	-365.8	92.7	-674.2	-9.3
16	218.00	-66.4	-5.4	2643	2691	-25.1	-2.0	-2603.5	-361.1	88.0	-639.9	-9.0
17	231.00	-66.4	-6.1	2643	2691	-25.1	-2.3	-2537.1	-355.7	83.3	-606.5	-8.6
18	244.00	-66.4	-6.9	2643	2691	-25.1	-2.6	-2470.7	-349.6	78.7	-573.9	-8.3
19	257.00	-66.4	-7.7	2643	2691	-25.1	-2.8	-2404.3	-342.7	74.2	-542.2	-8.0
20	270.00	-66.4	-8.4	2643	2691	-25.1	-3.1	-2337.9	-335.0	69.8	-511.4	-7.7
21	283.00	-66.4	-9.2	2643	2691	-25.1	-3.4	-2271.5	-326.6	65.5	-481.4	-7.4
22	296.00	-66.4	-9.9	2643	2691	-25.1	-3.7	-2205.1	-317.4	61.4	-452.3	-7.1
23	309.00	-66.4	-10.7	2643	2691	-25.1	-4.0	-2138.7	-307.5	57.3	-424.1	-6.8
24	322.00	-66.6	-11.2	2643	2691	-25.2	-4.2	-2072.3	-296.8	53.4	-396.7	-6.5
25	335.00	-67.3	-11.2	2643	2691	-25.5	-4.2	-2005.7	-285.5	49.6	-370.2	-6.2
26	348.00	-68.0	-11.2	2643	2691	-25.7	-4.2	-1938.4	-274.3	45.9	-344.6	-6.0
27	361.00	-68.7	-11.2	2643	2691	-26.0	-4.1	-1870.4	-263.1	42.5	-319.8	-5.7
28	374.00	-69.4	-11.1	2643	2691	-26.2	-4.1	-1801.7	-252.0	39.1	-296.0	-5.4
29	387.00	-70.1	-11.1	2643	2691	-26.5	-4.1	-1732.3	-240.9	35.9	-273.0	-5.1
30	400.00	-70.8	-11.1	2643	2691	-26.8	-4.1	-1662.3	-229.8	32.8	-250.9	-4.9
31	413.00	-71.4	-11.0	2643	2691	-27.0	-4.1	-1591.5	-218.7	29.9	-229.8	-4.6
32	426.00	-71.7	-11.0	2643	2691	-27.1	-4.1	-1520.1	-207.6	27.2	-209.6	-4.4
33	439.00	-71.8	-10.8	2643	2691	-27.2	-4.0	-1448.3	-196.7	24.5	-190.3	-4.1
34	452.00	-71.8	-10.7	2643	2691	-27.2	-4.0	-1376.6	-185.8	22.0	-171.9	-3.9
35	465.00	-71.9	-10.6	2643	2691	-27.2	-3.9	-1304.7	-175.1	19.7	-154.5	-3.7
36	478.00	-71.9	-10.5	2643	2691	-27.2	-3.9	-1232.9	-164.5	17.5	-138.0	-3.5
37	491.00	-71.9	-10.3	2643	2691	-27.2	-3.8	-1161.0	-154.0	15.4	-122.4	-3.3
38	504.00	-72.0	-10.2	2643	2691	-27.2	-3.8	-1089.0	-143.7	13.5	-107.8	-3.1
39	517.00	-72.0	-10.1	2643	2691	-27.2	-3.8	-1017.1	-133.5	11.7	-94.1	-2.9
40	530.00	-72.4	-10.1	2643	2691	-27.4	-3.8	-945.1	-123.4	10.0	-81.4	-2.7
41	543.00	-72.8	-10.2	2643	2691	-27.5	-3.8	-872.7	-113.2	8.5	-69.5	-2.5
42	556.00	-73.2	-10.2	2643	2691	-27.7	-3.8	-799.8	-103.1	7.1	-58.7	-2.3
43	569.00	-73.7	-10.3	2643	2691	-27.9	-3.8	-726.6	-92.8	5.8	-48.7	-2.1
44	582.00	-74.1	-10.3	2643	2691	-28.0	-3.8	-653.0	-82.6	4.7	-39.8	-1.9
45	595.00	-74.5	-10.4	2643	2691	-28.2	-3.9	-578.9	-72.2	3.6	-31.8	-1.7
46	608.00	-74.9	-10.4	2643	2691	-28.3	-3.9	-504.4	-61.9	2.8	-24.7	-1.5
47	621.00	-74.1	-10.3	2643	2691	-28.0	-3.8	-429.5	-51.4	2.0	-18.7	-1.2
48	634.00	-73.9	-9.9	2847	2599	-26.0	-3.8	-355.4	-41.1	1.4	-13.6	-1.0
49	648.00	-67.8	-8.6	2847	2403	-23.8	-3.6	-281.5	-31.3	.9	-9.1	-.8
50	662.00	-61.8	-7.7	2847	2203	-21.7	-3.5	-213.7	-22.7	.6	-5.6	-.5
51	676.00	-55.9	-6.3	2847	2007	-19.6	-3.2	-151.8	-15.0	.3	-3.1	-.3
PENT	690.00	-95.9	-8.7	5693	3733	-16.9	-2.3	-95.9	-8.7	.1	-1.3	-.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 50 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-112.5	-44.7	5449	5023	-20.6	-8.9	-3856.7	-146.2	4.4	-1406.6	5.7
MEZZ	22.00	-65.3	-7.1	2847	2898	-23.0	-2.4	-3744.2	-101.5	1.6	-1323.0	6.4
2	36.00	-60.9	-6.5	2643	2691	-23.1	-2.4	-3678.9	-94.4	.3	-1271.1	6.3
3	49.00	-61.2	-6.4	2643	2691	-23.1	-2.4	-3618.0	-87.9	-.3	-1223.6	6.2
4	62.00	-61.4	-6.3	2643	2691	-23.2	-2.4	-3556.8	-81.5	-2.0	-1177.0	6.0
5	75.00	-61.7	-6.3	2643	2691	-23.3	-2.3	-3495.3	-75.2	-3.0	-1131.2	5.9
6	88.00	-62.0	-6.2	2643	2691	-23.4	-2.3	-3433.6	-68.9	-4.0	-1086.1	5.8
7	101.00	-62.2	-6.1	2643	2691	-23.5	-2.3	-3371.7	-62.7	-4.8	-1041.9	5.7
8	114.00	-62.5	-6.0	2643	2691	-23.6	-2.2	-3309.4	-56.6	-5.6	-998.5	5.5
9	127.00	-63.2	-5.7	2643	2691	-23.9	-2.1	-3247.0	-50.6	-6.3	-955.9	5.4
10	140.00	-64.1	-5.3	2643	2691	-24.3	-2.0	-3183.8	-44.8	-6.9	-914.1	5.3
11	153.00	-65.1	-4.9	2643	2691	-24.6	-1.8	-3119.6	-39.5	-7.5	-873.2	5.2
12	166.00	-66.0	-4.4	2643	2691	-25.0	-1.6	-3054.6	-34.7	-8.0	-833.2	5.1
13	179.00	-67.0	-4.0	2643	2691	-25.3	-1.5	-2988.5	-30.2	-8.4	-793.8	4.9
14	192.00	-67.9	-3.6	2643	2691	-25.7	-1.3	-2921.6	-26.0	-8.7	-755.3	4.8
15	205.00	-68.8	-3.2	2643	2691	-26.0	-1.2	-2853.7	-22.0	-9.1	-717.7	4.7
16	218.00	-69.8	-2.7	2643	2691	-26.4	-1.0	-2784.8	-18.5	-9.3	-681.1	4.6
17	231.00	-70.5	-3.1	2643	2691	-26.5	-1.1	-2715.1	-16.8	-9.6	-645.1	4.6
18	244.00	-70.5	-3.5	2643	2691	-26.7	-1.3	-2644.9	-13.7	-9.8	-610.5	4.4
19	257.00	-70.9	-3.8	2643	2691	-26.8	-1.4	-2574.4	-10.2	-9.9	-576.5	4.3
20	270.00	-71.2	-4.2	2643	2691	-27.0	-1.6	-2503.5	-6.4	-10.0	-543.5	4.2
21	283.00	-71.6	-4.6	2643	2691	-27.1	-1.7	-2432.3	-2.4	-10.1	-511.5	4.1
22	296.00	-72.0	-5.0	2643	2691	-27.4	-1.8	-2360.7	2.4	-10.1	-480.3	4.0
23	309.00	-72.3	-5.3	2643	2691	-27.4	-2.0	-2288.7	7.4	-10.0	-450.1	4.0
24	322.00	-72.8	-5.4	2643	2691	-27.5	-2.0	-2216.4	12.7	-9.9	-420.8	3.9
25	335.00	-73.4	-4.6	2643	2691	-27.8	-1.7	-2143.6	18.1	-9.7	-392.5	3.8
26	348.00	-74.0	-3.8	2643	2691	-28.0	-1.4	-2070.2	22.6	-9.4	-365.1	3.7
27	361.00	-74.6	-3.0	2643	2691	-28.2	-1.1	-1996.2	26.4	-9.1	-338.7	3.6
28	374.00	-75.2	-2.2	2643	2691	-28.5	-.8	-1921.6	29.5	-8.7	-313.2	3.5
29	387.00	-75.9	-1.5	2643	2691	-28.7	-.5	-1846.3	31.7	-8.3	-288.7	3.4
30	400.00	-76.5	-.7	2643	2691	-28.9	-.2	-1770.4	33.1	-7.9	-265.2	3.3
31	413.00	-77.1	.1	2643	2691	-29.2	.0	-1694.0	33.7	-7.5	-242.7	3.2
32	426.00	-77.4	.4	2643	2691	-29.3	.2	-1616.9	33.7	-7.0	-221.1	3.2
33	439.00	-77.4	.4	2643	2691	-29.3	.2	-1539.5	33.3	-6.6	-200.6	3.1
34	452.00	-77.4	.4	2643	2691	-29.3	.2	-1462.1	32.8	-6.2	-181.1	3.0
35	465.00	-77.4	.4	2643	2691	-29.3	.1	-1384.7	32.5	-5.8	-162.6	2.9
36	478.00	-77.4	.4	2643	2691	-29.3	.1	-1307.3	32.1	-5.4	-145.2	2.8
37	491.00	-77.4	.4	2643	2691	-29.3	.1	-1229.9	31.7	-4.9	-128.8	2.7
38	504.00	-77.5	.4	2643	2691	-29.3	.1	-1152.4	31.3	-4.5	-113.4	2.6
39	517.00	-77.5	.4	2643	2691	-29.3	.1	-1075.0	30.9	-4.1	-98.9	2.5
40	530.00	-77.7	.6	2643	2691	-29.4	.2	-997.5	30.5	-3.7	-85.2	2.4
41	543.00	-77.9	.7	2643	2691	-29.5	.3	-919.8	30.0	-3.3	-72.3	2.3
42	556.00	-78.2	.9	2643	2691	-29.6	.4	-841.8	29.4	-2.9	-60.3	2.2
43	569.00	-78.4	1.1	2643	2691	-29.7	.4	-763.2	28.7	-2.6	-49.0	2.1
44	582.00	-78.7	1.3	2643	2691	-29.8	.5	-683.9	27.9	-2.2	-38.4	2.0
45	595.00	-78.9	1.5	2643	2691	-29.9	.6	-603.6	27.0	-1.8	-28.5	1.9
46	608.00	-79.2	1.7	2643	2691	-29.9	.6	-522.6	25.8	-1.5	-19.3	1.8
47	621.00	-78.2	1.9	2643	2691	-29.6	.7	-441.8	24.3	-1.1	-10.8	1.7
48	634.00	-78.8	2.6	2847	2599	-27.5	1.0	-363.0	22.5	-.7	-3.1	1.6
49	648.00	-72.1	3.0	2847	2403	-25.3	1.2	-285.2	20.6	-.3	3.4	1.5
50	662.00	-64.9	3.2	2847	2203	-22.8	1.5	-212.9	18.0	.0	8.7	1.4
51	676.00	-57.6	3.6	2847	2007	-20.3	1.8	-147.9	15.0	.3	12.9	1.3
PENT	690.00	-97.4	8.2	5693	3733	-17.1	2.2	-89.6	11.8	.4	15.8	1.2
								-97.4	8.2	.1	17.4	1.1
											18.2	1.0
											18.3	.9
											17.6	.8
											16.2	.7
											14.0	.6
											11.0	.5
											7.1	.4
											2.4	.3
											-2.4	.2
											-7.2	.1
											-11.8	.0
											-14.9	.0
											-16.4	.0
											-16.2	.0
											-14.1	.0
											-10.1	.0
											-4.1	.0
											2.8	.0
											9.7	.0
											15.3	.0
											19.3	.0
											21.4	.0
											21.4	.0
											19.3	.0
											15.3	.0
											9.7	.0
											2.8	.0
											-4.1	.0
											-10.1	.0
											-14.1	.0
											-16.2	.0
											-16.4	.0
											-14.9	.0
											-11.8	.0
											-7.2	.1
											-2.4	.2
											4.4	.3
											11.0	.4
											17.6	.5
											22.6	.6
											26.4	.7
											29.5	.8
											31.7	.9
											33.1	1.0
											33.7	1.1
											33.7	1.2
											33.3	1.3
											32.8	1.4
											32.5	1.5
											32.1	1.6
											31.7	1.7
											31.3	1.8
											30.9	1.9
											30.5	2.0
											30.0	2.1
											29.4	2.2
											28.7	2.3
											27.9	2.4
											27.0	2.5
											25.8	2.6
											24.3	2.7
											22.5	2.8
											20.6	2.9
											18.0	3.0
											15.0	3.1
											11.8	3.2
											8.2	3.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 60 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-117.7	-51.1	5449	5023	-21.6	-10.2	-3758.5	164.6	-157.6	-1364.3	19.6
MEZZ	22.00	-59.6	-12.1	2847	2898	-20.9	-4.2	-3640.8	215.7	-153.4	-1282.9	20.1
2	36.00	-56.6	-10.8	2643	2691	-21.4	-4.0	-3581.2	227.8	-150.3	-1232.3	19.8
3	49.00	-57.7	-10.4	2643	2691	-21.8	-3.9	-3524.6	238.7	-147.3	-1186.1	19.8
4	62.00	-58.8	-10.0	2643	2691	-22.3	-3.7	-3466.9	249.1	-144.1	-1140.7	19.6
5	75.00	-60.0	-9.6	2643	2691	-22.7	-3.6	-3408.1	259.1	-140.8	-1096.0	19.3
6	88.00	-61.1	-9.2	2643	2691	-23.1	-3.4	-3348.1	268.7	-137.4	-1052.1	19.1
7	101.00	-62.3	-8.8	2643	2691	-23.6	-3.3	-3286.9	277.8	-133.9	-1009.0	18.8
8	114.00	-63.4	-8.4	2643	2691	-24.0	-3.1	-3224.6	286.6	-130.2	-966.6	18.5
9	127.00	-64.2	-7.9	2643	2691	-24.3	-2.7	-3161.2	295.0	-126.4	-925.1	18.1
10	140.00	-64.8	-5.7	2643	2691	-24.5	-2.1	-3097.0	302.2	-122.5	-884.5	17.8
11	153.00	-65.4	-4.2	2643	2691	-24.8	-1.6	-3032.1	307.9	-118.6	-844.6	17.5
12	166.00	-66.0	-2.8	2643	2691	-25.0	-1.0	-2966.7	312.2	-114.5	-805.6	17.1
13	179.00	-66.7	-1.3	2643	2691	-25.2	-.5	-2900.7	314.9	-110.5	-767.5	16.8
14	192.00	-67.3	.2	2643	2691	-25.4	.1	-2834.0	316.2	-106.4	-730.2	16.5
15	205.00	-67.9	1.7	2643	2691	-25.7	.6	-2766.7	316.0	-102.2	-693.8	16.2
16	218.00	-68.5	3.2	2643	2691	-25.9	1.2	-2698.9	314.3	-98.1	-658.3	15.9
17	231.00	-68.8	3.2	2643	2691	-26.0	1.2	-2630.4	311.1	-94.1	-623.6	15.6
18	244.00	-69.1	3.3	2643	2691	-26.1	1.2	-2561.6	307.9	-90.1	-589.9	15.3
19	257.00	-69.4	3.4	2643	2691	-26.3	1.3	-2492.5	304.6	-86.1	-557.0	15.0
20	270.00	-69.8	3.4	2643	2691	-26.4	1.3	-2423.0	301.2	-82.1	-525.1	14.7
21	283.00	-70.1	3.5	2643	2691	-26.5	1.3	-2353.3	297.8	-78.2	-494.0	14.3
22	296.00	-70.4	3.6	2643	2691	-26.6	1.3	-2283.2	294.3	-74.4	-463.9	14.0
23	309.00	-70.7	3.6	2643	2691	-26.7	1.3	-2212.8	290.7	-70.6	-434.7	13.7
24	322.00	-71.1	3.8	2643	2691	-26.9	1.4	-2142.1	287.1	-66.8	-406.4	13.3
25	335.00	-71.6	4.1	2643	2691	-27.1	1.5	-2071.1	283.3	-63.1	-379.0	13.0
26	348.00	-72.0	4.4	2643	2691	-27.3	1.6	-1999.5	279.3	-59.5	-352.5	12.6
27	361.00	-72.5	4.7	2643	2691	-27.4	1.7	-1927.5	274.9	-55.9	-327.0	12.1
28	374.00	-73.0	5.0	2643	2691	-27.6	1.9	-1854.9	270.2	-52.3	-302.4	11.7
29	387.00	-73.5	5.3	2643	2691	-27.8	2.0	-1781.9	265.2	-48.8	-278.8	11.4
30	400.00	-74.0	5.6	2643	2691	-28.0	2.1	-1708.4	259.9	-45.4	-256.1	11.0
31	413.00	-74.5	5.9	2643	2691	-28.2	2.2	-1634.4	254.3	-42.1	-234.4	10.7
32	426.00	-74.7	6.5	2643	2691	-28.3	2.4	-1560.0	248.3	-38.8	-213.6	10.3
33	439.00	-74.9	7.3	2643	2691	-28.3	2.7	-1485.2	241.8	-35.6	-193.8	9.9
34	452.00	-75.0	8.0	2643	2691	-28.4	3.0	-1410.3	234.6	-32.5	-175.0	9.6
35	465.00	-75.1	8.8	2643	2691	-28.4	3.3	-1335.3	226.5	-29.5	-157.1	9.2
36	478.00	-75.3	9.5	2643	2691	-28.5	3.5	-1260.2	217.8	-26.7	-140.3	8.8
37	491.00	-75.4	10.3	2643	2691	-28.5	3.8	-1185.0	208.3	-23.9	-124.4	8.4
38	504.00	-75.5	11.0	2643	2691	-28.6	4.1	-1109.6	198.0	-21.2	-109.5	7.9
39	517.00	-75.6	11.8	2643	2691	-28.6	4.4	-1034.1	187.0	-18.7	-95.5	7.5
40	530.00	-75.4	11.9	2643	2691	-28.5	4.4	-958.4	175.2	-16.4	-82.6	7.0
41	543.00	-75.2	12.0	2643	2691	-28.4	4.5	-883.0	163.3	-14.2	-70.6	6.5
42	556.00	-74.9	12.1	2643	2691	-28.3	4.5	-807.8	151.3	-12.1	-59.6	6.0
43	569.00	-74.6	12.2	2643	2691	-28.2	4.5	-732.9	139.2	-10.3	-49.6	5.5
44	582.00	-74.4	12.3	2643	2691	-28.1	4.6	-658.3	127.0	-8.5	-40.6	5.0
45	595.00	-74.1	12.4	2643	2691	-28.0	4.6	-583.9	114.7	-7.0	-32.5	4.5
46	608.00	-73.9	12.4	2643	2691	-27.9	4.6	-509.8	102.4	-5.5	-25.4	3.9
47	621.00	-73.7	12.4	2643	2691	-27.5	4.6	-435.9	89.9	-4.3	-19.2	3.4
48	634.00	-73.3	13.3	2847	2599	-25.8	5.1	-363.2	77.5	-3.2	-14.0	2.8
49	648.00	-68.1	13.2	2847	2403	-23.9	5.5	-289.9	64.2	-2.2	-9.5	2.1
50	662.00	-63.2	13.1	2847	2203	-22.2	5.9	-221.7	51.0	-1.4	-5.9	1.6
51	676.00	-58.2	12.9	2847	2007	-20.4	6.4	-158.6	37.9	-.8	-3.2	1.1
PENT	690.00	-100.4	25.0	5693	3733	-17.6	6.7	-100.4	25.0	-.3	-1.4	.7

TABLE 7 SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 70 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-117.8	-28.4	5449	5023	-21.6	-5.6	-3539.8	746.0	-407.1	-1263.8	24.1
MEZZ	22.00	-61.2	-2.9	2847	2898	-21.5	-1.0	-3422.0	774.3	-390.4	-1187.3	24.8
2	36.00	-57.2	-3.2	2643	2691	-21.6	-1.2	-3360.8	777.2	-379.5	-1139.8	25.0
3	49.00	-57.6	-3.7	2643	2691	-21.8	-1.4	-3303.6	780.4	-369.4	-1096.5	25.1
4	62.00	-57.9	-4.2	2643	2691	-21.9	-1.6	-3246.0	784.1	-359.2	-1053.9	25.2
5	75.00	-58.2	-4.7	2643	2691	-22.0	-1.8	-3188.1	788.3	-349.0	-1012.1	25.2
6	88.00	-58.6	-5.3	2643	2691	-22.2	-2.0	-3129.9	793.1	-338.7	-971.0	25.1
7	101.00	-58.9	-5.8	2643	2691	-22.3	-2.1	-3071.3	798.3	-328.4	-930.7	25.0
8	114.00	-59.3	-6.3	2643	2691	-22.4	-2.3	-3012.4	804.1	-317.9	-891.1	24.8
9	127.00	-60.2	-5.1	2643	2691	-22.8	-1.9	-2953.1	810.4	-307.4	-852.4	24.6
10	140.00	-61.5	-3.0	2643	2691	-23.3	-1.1	-2892.9	815.4	-296.9	-814.4	24.3
11	153.00	-62.7	-1.0	2643	2691	-23.7	-.4	-2831.4	818.5	-286.3	-777.2	24.0
12	166.00	-63.9	1.0	2643	2691	-24.2	.4	-2768.7	819.5	-275.6	-740.8	23.7
13	179.00	-65.2	3.0	2643	2691	-24.7	1.1	-2704.8	818.5	-265.0	-705.2	23.3
14	192.00	-66.4	5.0	2643	2691	-25.1	1.9	-2639.6	815.5	-254.3	-670.4	22.9
15	205.00	-67.6	7.1	2643	2691	-25.6	2.6	-2573.2	810.4	-243.8	-636.6	22.5
16	218.00	-68.9	9.1	2643	2691	-26.1	3.4	-2505.5	803.4	-233.3	-603.5	22.1
17	231.00	-68.6	9.8	2643	2691	-26.6	3.7	-2436.7	794.3	-222.9	-571.4	21.6
18	244.00	-68.4	10.6	2643	2691	-25.9	3.9	-2368.0	784.4	-212.6	-540.2	21.2
19	257.00	-68.1	11.3	2643	2691	-25.8	4.2	-2299.6	773.8	-202.5	-509.9	20.7
20	270.00	-67.9	12.0	2643	2691	-25.7	4.5	-2231.5	762.5	-192.5	-480.4	20.2
21	283.00	-67.6	12.8	2643	2691	-25.6	4.7	-2163.6	750.5	-182.7	-451.8	19.8
22	296.00	-67.4	13.5	2643	2691	-25.5	5.0	-2096.0	737.8	-173.0	-424.1	19.3
23	309.00	-67.1	14.2	2643	2691	-25.4	5.3	-2028.7	724.3	-163.5	-397.3	18.9
24	322.00	-67.0	14.9	2643	2691	-25.4	5.5	-1961.6	710.1	-154.2	-371.4	18.4
25	335.00	-67.4	15.5	2643	2691	-25.5	5.8	-1894.5	695.2	-145.1	-346.3	18.0
26	348.00	-67.8	16.1	2643	2691	-25.7	6.0	-1827.1	679.6	-136.1	-322.1	17.5
27	361.00	-68.2	16.7	2643	2691	-25.8	6.2	-1759.3	663.5	-127.4	-298.8	17.0
28	374.00	-68.6	17.3	2643	2691	-25.9	6.4	-1691.1	646.8	-118.9	-276.4	16.5
29	387.00	-69.0	18.0	2643	2691	-26.1	6.7	-1622.5	629.4	-110.6	-254.9	16.0
30	400.00	-69.4	18.6	2643	2691	-26.2	6.9	-1553.5	611.5	-102.5	-234.2	15.5
31	413.00	-69.8	19.2	2643	2691	-26.4	7.1	-1484.1	592.9	-94.7	-214.5	14.9
32	426.00	-69.6	19.9	2643	2691	-26.3	7.4	-1414.4	573.7	-87.1	-195.6	14.4
33	439.00	-69.0	20.7	2643	2691	-26.1	7.7	-1344.8	553.8	-79.8	-177.7	13.8
34	452.00	-68.5	21.4	2643	2691	-25.9	8.0	-1275.8	533.2	-72.7	-160.7	13.2
35	465.00	-67.9	22.2	2643	2691	-25.7	8.3	-1207.3	511.7	-65.9	-144.5	12.6
36	478.00	-67.4	23.0	2643	2691	-25.5	8.5	-1139.4	489.5	-59.4	-129.3	12.1
37	491.00	-66.8	23.8	2643	2691	-25.3	8.8	-1072.0	466.5	-53.2	-114.9	11.5
38	504.00	-66.3	24.5	2643	2691	-25.1	9.1	-1005.2	442.8	-47.3	-101.4	10.9
39	517.00	-65.7	25.3	2643	2691	-24.9	9.4	-938.9	418.2	-41.7	-88.8	10.3
40	530.00	-65.7	25.9	2643	2691	-24.9	9.6	-873.2	392.9	-36.4	-77.0	9.7
41	543.00	-65.8	26.5	2643	2691	-24.9	9.8	-807.5	367.0	-31.5	-66.1	9.0
42	556.00	-65.9	27.1	2643	2691	-24.9	10.1	-741.6	340.5	-26.9	-56.1	8.4
43	569.00	-66.0	27.7	2643	2691	-25.0	10.3	-675.7	313.4	-22.6	-46.8	7.7
44	582.00	-66.1	28.2	2643	2691	-25.0	10.5	-609.7	285.8	-18.7	-38.4	7.0
45	595.00	-66.2	28.8	2643	2691	-25.0	10.7	-543.7	257.5	-15.2	-30.9	6.2
46	608.00	-66.2	29.4	2643	2691	-25.1	10.9	-477.5	228.7	-12.0	-24.3	5.5
47	621.00	-65.6	29.7	2643	2691	-24.8	11.0	-411.3	199.3	-9.3	-18.5	4.9
48	634.00	-67.3	31.0	2847	2599	-23.6	11.9	-345.6	169.7	-6.9	-13.6	3.3
49	648.00	-63.7	30.0	2847	2403	-22.4	12.5	-278.4	138.6	-4.7	-9.2	2.8
50	662.00	-59.5	29.0	2847	2203	-20.9	13.2	-214.6	108.6	-3.0	-5.5	2.2
51	676.00	-55.2	27.8	2847	2007	-19.4	13.9	-155.1	79.6	-1.6	-3.2	1.6
PENT	690.00	-99.9	51.8	5693	3733	-17.5	13.9	-99.9	51.8	-.7	-1.4	.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-95.2	-9.5	5449	5023	-17.5	-1.9	-2765.9	1623.2	-754.9	-991.4	17.9
MEZZ	22.00	-45.6	8.2	2847	2898	-16.0	2.8	-2670.7	1632.7	-719.1	-931.6	19.1
2	36.00	-42.6	7.0	2643	2691	-16.1	2.6	-2625.1	1624.5	-696.3	-894.6	19.8
3	49.00	-42.9	6.4	2643	2691	-16.2	2.4	-2582.4	1617.5	-675.2	-860.7	20.2
4	62.00	-43.1	5.9	2643	2691	-16.3	2.2	-2539.6	1611.1	-654.2	-827.4	20.6
5	75.00	-43.4	5.3	2643	2691	-16.4	2.0	-2496.5	1605.2	-633.3	-794.7	20.9
6	88.00	-43.6	4.7	2643	2691	-16.5	1.8	-2453.1	1599.9	-612.5	-762.5	21.2
7	101.00	-43.9	4.2	2643	2691	-16.6	1.5	-2409.4	1595.1	-591.7	-730.9	21.2
8	114.00	-44.1	3.6	2643	2691	-16.7	1.3	-2365.5	1591.0	-571.0	-699.9	21.1
9	127.00	-45.4	5.1	2643	2691	-17.2	1.9	-2321.4	1587.4	-550.3	-669.4	21.0
10	140.00	-47.0	7.6	2643	2691	-17.8	2.8	-2276.0	1582.3	-529.7	-639.5	20.9
11	153.00	-48.7	10.0	2643	2691	-18.4	3.7	-2229.0	1574.7	-509.2	-610.2	20.7
12	166.00	-50.3	12.5	2643	2691	-19.0	4.7	-2180.4	1564.7	-488.8	-581.6	20.5
13	179.00	-52.0	15.0	2643	2691	-19.7	5.6	-2130.1	1552.2	-468.6	-553.6	20.3
14	192.00	-53.6	17.5	2643	2691	-20.3	6.5	-2078.1	1537.2	-448.5	-526.2	20.1
15	205.00	-55.3	19.9	2643	2691	-20.9	7.4	-2024.5	1519.7	-428.6	-499.5	19.8
16	218.00	-56.9	22.4	2643	2691	-21.5	8.3	-1969.2	1499.8	-409.0	-473.6	19.6
17	231.00	-56.5	23.7	2643	2691	-21.4	8.8	-1912.3	1477.4	-389.6	-448.4	19.3
18	244.00	-56.0	24.9	2643	2691	-21.2	9.3	-1855.8	1453.7	-370.6	-423.9	19.0
19	257.00	-55.5	26.2	2643	2691	-21.0	9.7	-1799.8	1428.8	-351.8	-400.1	18.7
20	270.00	-55.1	27.4	2643	2691	-20.8	10.2	-1744.2	1402.6	-333.4	-377.1	18.4
21	283.00	-54.6	28.7	2643	2691	-20.7	10.6	-1689.2	1375.2	-315.4	-354.8	18.0
22	296.00	-54.1	29.9	2643	2691	-20.5	11.1	-1634.6	1346.7	-297.7	-333.1	17.7
23	309.00	-53.7	31.2	2643	2691	-20.3	11.6	-1580.5	1316.7	-280.4	-312.1	17.3
24	322.00	-53.4	32.3	2643	2691	-20.2	12.0	-1526.8	1285.5	-263.5	-292.1	16.9
25	335.00	-53.5	33.2	2643	2691	-20.2	12.4	-1473.4	1253.9	-247.0	-272.6	16.4
26	348.00	-53.7	34.2	2643	2691	-20.3	12.7	-1419.9	1219.9	-230.9	-253.7	16.0
27	361.00	-53.8	35.1	2643	2691	-20.4	13.1	-1366.3	1185.8	-215.2	-235.6	15.5
28	374.00	-54.0	36.1	2643	2691	-20.4	13.4	-1312.4	1150.6	-200.1	-218.2	15.0
29	387.00	-54.1	37.0	2643	2691	-20.5	13.8	-1258.5	1114.6	-185.3	-201.5	14.6
30	400.00	-54.3	37.9	2643	2691	-20.5	14.1	-1204.4	1077.6	-171.1	-185.5	14.1
31	413.00	-54.4	38.9	2643	2691	-20.6	14.4	-1150.1	1039.6	-157.3	-170.2	13.6
32	426.00	-53.8	40.0	2643	2691	-20.4	14.9	-1095.7	1000.8	-144.1	-155.6	13.2
33	439.00	-52.8	41.2	2643	2691	-20.0	15.3	-1041.9	960.8	-131.3	-141.7	12.7
34	452.00	-51.7	42.4	2643	2691	-19.6	15.8	-989.1	919.6	-119.1	-128.5	12.1
35	465.00	-50.7	43.6	2643	2691	-19.2	16.2	-937.4	877.1	-107.4	-116.0	11.6
36	478.00	-49.6	44.9	2643	2691	-18.8	16.7	-886.8	833.5	-96.3	-104.1	11.0
37	491.00	-48.5	46.1	2643	2691	-18.4	17.1	-837.2	788.6	-85.7	-92.9	10.5
38	504.00	-47.5	47.3	2643	2691	-18.0	17.6	-788.6	742.5	-75.8	-82.4	9.9
39	517.00	-46.4	48.5	2643	2691	-17.6	18.0	-741.2	695.2	-66.5	-72.4	9.3
40	530.00	-47.3	48.5	2643	2691	-17.9	18.0	-694.7	646.7	-57.7	-63.1	8.8
41	543.00	-48.4	48.4	2643	2691	-18.3	18.0	-647.4	598.2	-49.6	-54.4	8.3
42	556.00	-49.4	48.2	2643	2691	-18.7	17.9	-599.1	549.8	-42.2	-46.2	7.8
43	569.00	-50.5	48.1	2643	2691	-19.1	17.9	-549.6	501.6	-35.3	-38.8	7.3
44	582.00	-51.6	48.0	2643	2691	-19.5	17.8	-499.1	453.5	-29.1	-32.0	6.6
45	595.00	-52.7	47.8	2643	2691	-19.9	17.8	-447.5	405.6	-23.5	-25.8	5.4
46	608.00	-53.7	47.7	2643	2691	-20.3	17.7	-394.8	357.8	-18.6	-20.3	4.8
47	621.00	-53.9	47.2	2643	2691	-20.4	17.5	-341.1	310.1	-14.2	-15.6	4.3
48	634.00	-54.6	49.2	2847	2599	-19.2	18.9	-287.2	262.9	-10.5	-11.5	3.2
49	648.00	-51.1	47.0	2847	2403	-17.9	19.5	-232.6	213.7	-7.2	-7.8	2.1
50	662.00	-48.8	45.1	2847	2203	-17.1	20.5	-181.5	166.7	-4.5	-4.9	1.7
51	676.00	-46.7	43.0	2847	2007	-16.4	21.4	-132.7	121.6	-2.5	-2.7	1.0
PENT	690.00	-86.0	78.7	5693	3733	-15.1	21.1	-86.0	78.7	-1.1	-1.2	1.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-73.6	19.2	5449	5023	-13.5	3.8	-1758.1	2339.6	-1022.9	-577.6	5.7
MEZZ	22.000	-37.8	18.2	2847	2898	-13.3	6.3	-1684.5	2320.5	-971.6	-539.7	6.1
2	36.000	-34.8	17.1	2643	2691	-13.2	6.3	-1646.7	2302.3	-939.3	-516.4	6.7
3	49.000	-34.5	17.3	2643	2691	-13.1	6.4	-1611.9	2285.2	-909.5	-495.3	7.8
4	62.000	-34.2	17.5	2643	2691	-12.9	6.5	-1577.4	2268.0	-879.9	-474.5	7.8
5	75.000	-33.9	17.7	2643	2691	-12.8	6.6	-1543.2	2250.5	-850.5	-454.2	8.3
6	88.000	-33.6	17.9	2643	2691	-12.7	6.7	-1509.2	2232.8	-821.4	-434.4	8.6
7	101.000	-33.4	18.1	2643	2691	-12.6	6.7	-1475.6	2214.9	-792.5	-415.0	8.8
8	114.000	-33.1	18.3	2643	2691	-12.5	6.8	-1442.2	2196.8	-763.8	-396.0	8.8
9	127.000	-33.5	19.7	2643	2691	-12.7	7.3	-1409.2	2178.5	-735.3	-377.5	8.8
10	140.000	-34.3	21.5	2643	2691	-13.0	8.0	-1375.7	2158.8	-707.1	-359.4	8.8
11	153.000	-35.1	23.4	2643	2691	-13.3	8.7	-1341.4	2137.3	-679.2	-341.7	8.7
12	166.000	-35.9	25.3	2643	2691	-13.6	9.4	-1306.3	2113.9	-651.6	-324.5	8.8
13	179.000	-36.6	27.2	2643	2691	-13.9	10.1	-1270.5	2088.6	-624.3	-307.8	8.6
14	192.000	-37.4	29.1	2643	2691	-14.2	10.8	-1233.8	2061.4	-597.3	-291.5	8.5
15	205.000	-38.2	31.0	2643	2691	-14.4	11.5	-1196.4	2032.3	-570.7	-275.7	8.5
16	218.000	-39.0	32.8	2643	2691	-14.7	12.2	-1158.2	2001.3	-544.5	-260.4	8.4
17	231.000	-38.7	34.2	2643	2691	-14.7	12.7	-1119.2	1968.5	-518.7	-245.6	8.4
18	244.000	-38.5	35.5	2643	2691	-14.6	13.2	-1080.5	1934.3	-493.3	-231.3	8.3
19	257.000	-38.3	36.8	2643	2691	-14.5	13.7	-1042.0	1898.8	-468.4	-217.5	8.2
20	270.000	-38.0	38.2	2643	2691	-14.4	14.2	-1003.7	1861.8	-443.9	-204.2	8.1
21	283.000	-37.8	39.5	2643	2691	-14.3	14.7	-965.7	1823.8	-420.0	-191.4	7.9
22	296.000	-37.5	40.8	2643	2691	-14.2	15.2	-928.0	1784.3	-396.5	-179.1	7.7
23	309.000	-37.3	42.1	2643	2691	-14.1	15.7	-890.4	1743.5	-373.6	-167.3	7.5
24	322.000	-36.8	43.4	2643	2691	-13.9	16.1	-853.2	1701.4	-351.2	-155.9	7.3
25	335.000	-35.9	44.6	2643	2691	-13.6	16.6	-816.3	1657.9	-329.4	-145.1	7.0
26	348.000	-35.0	45.8	2643	2691	-13.3	17.0	-780.4	1613.3	-308.1	-134.8	6.8
27	361.000	-34.1	47.0	2643	2691	-12.9	17.5	-745.4	1567.5	-287.4	-124.8	6.6
28	374.000	-33.2	48.1	2643	2691	-12.6	17.9	-711.3	1520.6	-267.4	-115.3	6.3
29	387.000	-32.3	49.3	2643	2691	-12.2	18.3	-678.0	1472.4	-247.9	-106.3	6.1
30	400.000	-31.4	50.5	2643	2691	-11.9	18.8	-645.7	1423.1	-229.1	-97.5	5.9
31	413.000	-30.5	51.7	2643	2691	-11.5	19.2	-614.3	1372.6	-210.9	-89.1	5.7
32	426.000	-29.8	52.8	2643	2691	-11.3	19.6	-583.8	1320.9	-193.4	-81.2	5.5
33	439.000	-29.1	53.8	2643	2691	-11.0	20.0	-554.0	1268.1	-176.6	-74.3	5.5
34	452.000	-28.5	54.8	2643	2691	-10.8	20.4	-524.8	1214.3	-160.4	-67.3	5.3
35	465.000	-27.9	55.8	2643	2691	-10.5	20.7	-496.3	1159.5	-145.0	-60.7	5.4
36	478.000	-27.2	56.8	2643	2691	-10.3	21.1	-468.5	1103.7	-130.3	-54.4	5.1
37	491.000	-26.6	57.9	2643	2691	-10.1	21.5	-441.2	1046.8	-116.3	-48.5	4.8
38	504.000	-26.0	58.9	2643	2691	-9.8	21.9	-414.6	989.0	-103.1	-42.9	4.4
39	517.000	-25.3	59.9	2643	2691	-9.6	22.3	-388.6	930.1	-90.6	-37.8	4.1
40	530.000	-25.6	60.7	2643	2691	-9.7	22.6	-363.3	870.2	-78.9	-32.8	3.9
41	543.000	-25.9	61.5	2643	2691	-9.8	22.9	-337.7	809.5	-68.0	-28.2	3.7
42	556.000	-26.2	62.3	2643	2691	-9.9	23.2	-311.8	748.0	-57.9	-24.0	3.3
43	569.000	-26.6	63.1	2643	2691	-10.0	23.5	-285.6	685.7	-48.6	-20.1	3.2
44	582.000	-26.9	63.9	2643	2691	-10.2	23.8	-259.0	622.5	-40.0	-16.4	2.9
45	595.000	-27.2	64.7	2643	2691	-10.3	24.1	-232.0	558.6	-32.4	-13.0	2.6
46	608.000	-27.5	65.5	2643	2691	-10.4	24.4	-205.0	493.9	-25.5	-10.1	2.2
47	621.000	-27.5	65.7	2643	2691	-10.4	24.4	-177.4	428.4	-19.5	-8.1	1.8
48	634.000	-28.3	68.9	2847	2599	-9.9	26.5	-149.9	362.7	-14.4	-6.0	1.5
49	648.000	-26.9	65.7	2847	2403	-9.5	27.4	-121.6	293.7	-9.8	-4.1	1.1
50	662.000	-25.9	62.5	2847	2203	-9.1	28.4	-94.6	228.0	-6.1	-2.5	1.1
51	676.000	-25.0	59.2	2847	2007	-8.8	29.5	-68.7	165.5	-3.4	-1.4	1.0
PENT	690.00	-43.7	106.3	5693	3733	-7.7	28.5	-43.7	106.3	-1.5	-.6	.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-47.5	33.8	5449	5023	-8.7	6.7	-1325.3	2335.6	-963.6	-525.1	-20.9
MEZZ	22.00	-24.2	24.2	2847	2898	-8.5	8.3	-1277.9	2301.8	-912.6	-496.4	-21.4
2	36.00	-21.3	23.1	2643	2691	-8.1	8.6	-1253.7	2277.6	-880.5	-478.7	-20.8
3	49.00	-20.2	23.8	2643	2691	-7.6	8.8	-1232.4	2254.5	-851.1	-462.5	-20.3
4	62.00	-19.0	24.5	2643	2691	-7.2	9.1	-1212.2	2230.7	-821.9	-446.6	-19.9
5	75.00	-17.9	25.1	2643	2691	-6.8	9.3	-1193.2	2206.2	-793.1	-431.0	-19.6
6	88.00	-16.8	25.8	2643	2691	-6.3	9.6	-1175.3	2181.1	-764.6	-415.6	-19.3
7	101.00	-15.6	26.5	2643	2691	-5.9	9.8	-1158.5	2155.2	-736.4	-400.4	-19.1
8	114.00	-14.5	27.2	2643	2691	-5.5	10.1	-1142.9	2128.8	-708.5	-385.5	-19.0
9	127.00	-14.6	28.3	2643	2691	-5.5	10.5	-1128.3	2101.6	-681.0	-370.7	-19.0
10	140.00	-15.2	29.6	2643	2691	-5.8	11.0	-1113.8	2073.3	-653.9	-356.2	-18.9
11	153.00	-15.9	30.9	2643	2691	-6.0	11.5	-1098.5	2043.8	-627.1	-341.8	-18.8
12	166.00	-16.5	32.2	2643	2691	-6.2	12.0	-1082.7	2012.9	-600.8	-327.6	-18.7
13	179.00	-17.1	33.5	2643	2691	-6.5	12.5	-1066.2	1980.7	-574.8	-313.6	-18.6
14	192.00	-17.8	34.8	2643	2691	-6.7	12.9	-1049.1	1947.1	-549.3	-299.9	-18.4
15	205.00	-18.4	36.2	2643	2691	-7.0	13.4	-1031.3	1912.3	-524.2	-286.4	-18.2
16	218.00	-19.0	37.5	2643	2691	-7.2	13.9	-1012.9	1876.2	-499.6	-273.1	-18.0
17	231.00	-19.7	38.0	2643	2691	-7.4	14.1	-993.9	1838.7	-475.4	-260.0	-17.8
18	244.00	-20.3	38.5	2643	2691	-7.7	14.3	-974.2	1800.7	-451.8	-247.2	-17.5
19	257.00	-21.0	39.0	2643	2691	-7.9	14.5	-953.9	1762.2	-428.6	-234.7	-17.2
20	270.00	-21.6	39.5	2643	2691	-8.2	14.7	-933.0	1723.2	-405.9	-222.4	-17.0
21	283.00	-22.2	40.0	2643	2691	-8.4	14.9	-911.4	1683.7	-383.8	-210.4	-16.7
22	296.00	-22.9	40.5	2643	2691	-8.7	15.1	-889.1	1643.7	-362.2	-198.7	-16.4
23	309.00	-23.5	41.0	2643	2691	-8.9	15.3	-866.3	1603.1	-341.1	-187.3	-16.0
24	322.00	-24.0	41.7	2643	2691	-9.1	15.5	-842.7	1562.1	-320.5	-176.2	-15.7
25	335.00	-24.0	42.9	2643	2691	-9.1	15.9	-818.7	1520.3	-300.5	-165.4	-15.4
26	348.00	-24.1	44.0	2643	2691	-9.1	16.4	-794.7	1477.5	-281.0	-154.9	-15.0
27	361.00	-24.1	45.1	2643	2691	-9.1	16.8	-770.6	1433.5	-262.1	-144.8	-14.6
28	374.00	-24.2	46.3	2643	2691	-9.2	17.2	-746.5	1388.3	-243.7	-134.9	-14.2
29	387.00	-24.2	47.4	2643	2691	-9.2	17.6	-722.3	1342.1	-226.0	-125.4	-13.7
30	400.00	-24.3	48.5	2643	2691	-9.2	18.0	-698.0	1294.7	-208.8	-116.1	-13.2
31	413.00	-24.4	49.6	2643	2691	-9.2	18.5	-673.7	1246.2	-192.3	-107.2	-12.7
32	426.00	-24.6	50.2	2643	2691	-9.3	18.7	-649.4	1196.5	-176.4	-98.6	-12.1
33	439.00	-24.9	50.5	2643	2691	-9.4	18.8	-624.8	1146.3	-161.2	-90.3	-11.5
34	452.00	-25.2	50.7	2643	2691	-9.5	18.8	-600.0	1095.8	-146.6	-82.4	-11.0
35	465.00	-25.5	50.9	2643	2691	-9.6	18.9	-574.8	1045.1	-132.7	-74.7	-10.4
36	478.00	-25.7	51.2	2643	2691	-9.7	19.0	-549.4	994.2	-119.5	-67.4	-9.8
37	491.00	-26.0	51.4	2643	2691	-9.9	19.1	-523.6	943.0	-106.9	-60.4	-9.3
38	504.00	-26.3	51.6	2643	2691	-10.0	19.2	-497.6	891.6	-94.9	-53.8	-8.7
39	517.00	-26.6	51.9	2643	2691	-10.1	19.3	-471.2	839.9	-83.7	-47.5	-8.2
40	530.00	-27.6	52.7	2643	2691	-10.4	19.6	-444.6	788.1	-73.1	-41.6	-7.6
41	543.00	-28.5	53.6	2643	2691	-10.8	19.9	-417.0	735.4	-63.2	-36.0	-7.1
42	556.00	-29.5	54.5	2643	2691	-11.2	20.2	-388.5	681.8	-54.0	-30.7	-6.5
43	569.00	-30.5	55.4	2643	2691	-11.5	20.6	-359.0	627.3	-45.5	-25.9	-6.0
44	582.00	-31.4	56.3	2643	2691	-11.9	20.9	-328.5	571.9	-37.7	-21.4	-5.4
45	595.00	-32.4	57.2	2643	2691	-12.3	21.2	-297.1	515.6	-30.6	-17.3	-4.8
46	608.00	-33.4	58.1	2643	2691	-12.6	21.6	-264.7	458.5	-24.3	-13.7	-4.3
47	621.00	-34.2	58.5	2643	2691	-12.9	21.7	-231.3	400.4	-18.7	-10.5	-3.7
48	634.00	-37.2	61.4	2847	2599	-13.1	23.6	-197.1	341.9	-13.9	-7.7	-3.1
49	648.00	-37.6	59.3	2847	2403	-13.2	24.7	-159.9	280.6	-9.5	-5.2	-2.5
50	662.00	-35.6	59.3	2847	2203	-12.5	26.9	-122.4	221.3	-6.0	-3.2	-1.9
51	676.00	-33.3	57.6	2847	2007	-11.7	28.7	-86.7	162.0	-3.3	-1.7	-1.3
PENT	690.00	-53.4	104.4	5693	3733	-9.4	28.0	-53.4	104.4	-1.5	-.	-.

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 110 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-30.3	58.5	5449	5023	-5.6	11.6	-828.6	2799.5	-1079.4	-438.3	-36.1
MEZZ	22.00	-4.1	34.0	2847	2898	-1.4	11.7	-798.4	2741.0	-1018.5	-420.4	-37.4
2	36.00	-2.5	33.0	2643	2691	-1.0	12.3	-794.3	2706.9	-980.3	-409.2	-37.1
3	49.00	-1.3	34.4	2643	2691	-.5	12.8	-791.8	2673.9	-945.4	-398.9	-37.1
4	62.00	-.1	35.7	2643	2691	-.0	13.3	-790.5	2639.5	-910.8	-388.6	-36.8
5	75.00	1.1	37.1	2643	2691	.4	13.8	-790.3	2603.7	-876.7	-378.4	-36.5
6	88.00	2.3	38.5	2643	2691	.9	14.3	-791.4	2566.6	-843.1	-368.1	-36.3
7	101.00	3.5	39.8	2643	2691	1.3	14.8	-793.7	2528.2	-810.0	-357.8	-36.0
8	114.00	4.7	41.2	2643	2691	1.8	15.3	-797.2	2488.3	-777.4	-347.4	-35.8
9	127.00	4.5	42.3	2643	2691	1.7	15.7	-801.8	2447.1	-745.3	-337.0	-35.5
10	140.00	3.7	43.3	2643	2691	1.4	16.1	-806.3	2404.8	-713.8	-326.6	-35.3
11	153.00	2.9	44.3	2643	2691	1.1	16.5	-810.1	2361.5	-682.8	-316.1	-35.0
12	166.00	2.2	45.4	2643	2691	.8	16.9	-813.0	2317.1	-652.4	-305.5	-34.7
13	179.00	1.4	46.4	2643	2691	.5	17.2	-815.2	2271.8	-622.6	-294.9	-34.3
14	192.00	.6	47.4	2643	2691	.2	17.6	-816.6	2225.4	-593.3	-284.3	-33.9
15	205.00	-.2	48.4	2643	2691	-.1	18.0	-817.1	2178.0	-564.7	-273.7	-33.4
16	218.00	-1.0	49.4	2643	2691	-.4	18.4	-817.0	2129.6	-536.7	-263.1	-32.9
17	231.00	-2.3	49.9	2643	2691	-.9	18.6	-816.0	2080.2	-509.3	-252.5	-32.4
18	244.00	-3.6	50.4	2643	2691	-1.4	18.7	-813.7	2030.2	-482.6	-241.9	-31.8
19	257.00	-4.9	50.9	2643	2691	-1.9	18.9	-810.1	1979.8	-456.6	-231.3	-31.2
20	270.00	-6.3	51.4	2643	2691	-2.4	19.1	-805.1	1928.9	-431.2	-220.8	-30.6
21	283.00	-7.6	51.9	2643	2691	-2.9	19.3	-798.9	1877.6	-406.4	-210.4	-29.9
22	296.00	-8.9	52.4	2643	2691	-3.4	19.5	-791.3	1825.7	-382.3	-200.1	-29.3
23	309.00	-10.2	52.8	2643	2691	-3.9	19.6	-782.3	1773.3	-359.0	-189.8	-28.7
24	322.00	-11.5	53.4	2643	2691	-4.3	19.8	-772.1	1720.5	-336.2	-179.8	-27.9
25	335.00	-12.5	54.0	2643	2691	-4.7	20.1	-760.6	1667.1	-314.2	-169.8	-27.3
26	348.00	-13.5	54.7	2643	2691	-5.1	20.3	-748.2	1613.1	-292.9	-160.0	-26.6
27	361.00	-14.4	55.4	2643	2691	-5.5	20.6	-734.7	1558.4	-272.3	-150.3	-25.9
28	374.00	-15.4	56.0	2643	2691	-5.8	20.8	-720.3	1503.0	-252.4	-140.9	-24.6
29	387.00	-16.4	56.7	2643	2691	-6.2	21.1	-704.8	1447.0	-233.2	-131.6	-23.7
30	400.00	-17.4	57.3	2643	2691	-6.6	21.3	-688.4	1390.4	-214.8	-122.6	-22.7
31	413.00	-18.4	58.0	2643	2691	-7.0	21.5	-671.0	1333.0	-197.1	-113.7	-21.8
32	426.00	-19.3	58.4	2643	2691	-7.3	21.7	-652.6	1275.0	-180.1	-105.1	-20.8
33	439.00	-20.1	58.6	2643	2691	-7.6	21.8	-633.3	1216.7	-163.9	-96.8	-19.8
34	452.00	-20.9	58.8	2643	2691	-7.9	21.9	-613.2	1158.1	-148.5	-88.7	-18.7
35	465.00	-21.6	59.0	2643	2691	-8.2	21.9	-592.4	1099.3	-133.8	-80.8	-17.6
36	478.00	-22.4	59.2	2643	2691	-8.5	22.0	-570.7	1040.2	-119.9	-73.3	-16.8
37	491.00	-23.2	59.4	2643	2691	-8.8	22.1	-548.3	981.0	-106.8	-66.0	-15.8
38	504.00	-24.0	59.7	2643	2691	-9.1	22.2	-525.1	921.6	-94.4	-59.0	-14.8
39	517.00	-24.8	59.9	2643	2691	-9.4	22.2	-501.0	861.9	-82.8	-52.3	-13.8
40	530.00	-26.3	59.7	2643	2691	-9.9	22.2	-476.3	802.0	-72.0	-46.0	-12.8
41	543.00	-27.8	59.6	2643	2691	-10.5	22.1	-450.2	742.3	-62.0	-40.0	-11.8
42	556.00	-29.4	59.4	2643	2691	-11.1	22.1	-422.8	682.7	-52.7	-34.3	-10.9
43	569.00	-30.9	59.2	2643	2691	-11.7	22.0	-392.8	623.3	-44.2	-29.0	-9.9
44	582.00	-32.4	59.1	2643	2691	-12.3	21.9	-361.9	564.1	-36.5	-24.1	-9.0
45	595.00	-34.0	58.9	2643	2691	-12.9	21.9	-329.5	505.1	-29.5	-19.6	-8.1
46	608.00	-35.5	58.7	2643	2691	-13.4	21.8	-295.5	446.2	-23.3	-15.5	-7.2
47	621.00	-36.9	58.4	2643	2691	-14.0	21.7	-259.9	387.4	-17.9	-11.8	-6.3
48	634.00	-40.7	60.2	2847	2599	-14.3	23.1	-222.3	329.1	-13.3	-8.8	-5.4
49	648.00	-41.7	57.3	2847	2403	-14.7	23.8	-182.3	268.9	-9.1	-6.0	-4.3
50	662.00	-40.1	57.3	2847	2203	-14.1	26.0	-140.5	211.7	-5.7	-3.7	-3.2
51	676.00	-38.1	55.4	2847	2007	-13.4	27.6	-100.4	154.4	-3.2	-2.0	-2.4
PENT	690.00	-62.3	99.0	5693	3733	-10.9	26.5	-62.3	99.0	-1.4	-.9	-1.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 120 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-12.5	81.1	5449	5023	-2.3	16.1	-423.9	3223.9	-1198.5	-241.1	-31.1
MEZZ	22.00	.0	47.0	2847	2898	.0	16.2	-411.4	3142.8	-1128.5	-231.9	-34.4
2	36.00	.7	44.7	2643	2691	.3	16.6	-411.4	3095.8	-1084.8	-226.1	-34.3
3	49.00	1.3	45.7	2643	2691	.5	17.0	-412.1	3051.1	-1044.9	-220.8	-34.1
4	62.00	2.0	46.7	2643	2691	.8	17.3	-413.4	3005.5	-1005.5	-215.4	-34.0
5	75.00	2.7	47.7	2643	2691	1.0	17.7	-415.4	2958.8	-966.7	-210.0	-33.8
6	88.00	3.3	48.7	2643	2691	1.3	18.1	-418.1	2911.1	-928.6	-204.6	-33.6
7	101.00	4.0	49.7	2643	2691	1.5	18.5	-421.4	2862.4	-891.0	-199.2	-33.4
8	114.00	4.6	50.7	2643	2691	1.7	18.8	-425.4	2812.7	-854.2	-193.7	-33.2
9	127.00	4.3	51.9	2643	2691	1.6	19.3	-430.0	2762.0	-817.9	-188.1	-33.0
10	140.00	3.4	53.1	2643	2691	1.3	19.7	-434.2	2710.1	-782.4	-182.5	-32.8
11	153.00	2.6	54.3	2643	2691	1.0	20.2	-437.7	2657.0	-747.5	-176.8	-32.6
12	166.00	1.8	55.6	2643	2691	.7	20.7	-440.3	2602.7	-713.3	-171.1	-32.3
13	179.00	1.0	56.8	2643	2691	.4	21.1	-442.1	2547.1	-679.8	-165.4	-31.9
14	192.00	.2	58.1	2643	2691	.1	21.6	-443.1	2490.3	-647.1	-159.6	-31.6
15	205.00	-.7	59.3	2643	2691	-.3	22.0	-443.2	2432.2	-615.1	-153.9	-31.2
16	218.00	-1.5	60.5	2643	2691	-.6	22.5	-442.6	2372.9	-583.8	-148.1	-30.7
17	231.00	-2.1	60.7	2643	2691	-.8	22.6	-441.1	2312.4	-553.4	-142.4	-30.3
18	244.00	-2.6	60.9	2643	2691	-1.0	22.6	-439.0	2251.7	-523.7	-136.6	-29.8
19	257.00	-3.2	61.0	2643	2691	-1.2	22.7	-436.4	2190.8	-494.8	-130.9	-29.2
20	270.00	-3.7	61.2	2643	2691	-1.4	22.7	-433.2	2129.7	-466.8	-125.3	-28.6
21	283.00	-4.3	61.4	2643	2691	-1.6	22.8	-429.5	2068.5	-439.5	-119.7	-28.0
22	296.00	-4.8	61.5	2643	2691	-1.8	22.9	-425.2	2007.1	-413.0	-114.1	-27.4
23	309.00	-5.4	61.7	2643	2691	-2.0	22.9	-420.4	1945.6	-387.3	-108.6	-26.7
24	322.00	-5.9	61.9	2643	2691	-2.2	23.0	-415.0	1883.9	-362.4	-103.2	-26.0
25	335.00	-6.3	62.1	2643	2691	-2.4	23.1	-409.0	1822.0	-338.3	-97.8	-25.2
26	348.00	-6.7	62.3	2643	2691	-2.5	23.1	-402.7	1760.0	-315.0	-92.6	-24.5
27	361.00	-7.1	62.4	2643	2691	-2.7	23.2	-396.1	1697.7	-292.5	-87.4	-23.7
28	374.00	-7.4	62.6	2643	2691	-2.8	23.3	-389.0	1635.3	-270.9	-82.3	-23.0
29	387.00	-7.8	62.8	2643	2691	-3.0	23.3	-381.6	1572.7	-250.0	-77.3	-22.2
30	400.00	-8.2	63.0	2643	2691	-3.1	23.4	-373.7	1509.8	-230.0	-72.4	-21.4
31	413.00	-8.6	63.2	2643	2691	-3.3	23.5	-365.5	1446.8	-210.8	-67.6	-20.6
32	426.00	-8.9	63.5	2643	2691	-3.4	23.6	-356.9	1383.6	-192.4	-62.9	-19.8
33	439.00	-9.1	63.8	2643	2691	-3.5	23.7	-348.0	1320.2	-174.8	-58.3	-18.9
34	452.00	-9.4	64.2	2643	2691	-3.5	23.9	-338.9	1256.3	-158.0	-53.8	-18.1
35	465.00	-9.6	64.6	2643	2691	-3.6	24.0	-329.5	1192.1	-142.1	-49.5	-17.3
36	478.00	-9.8	64.9	2643	2691	-3.7	24.1	-319.9	1127.5	-127.1	-45.2	-16.4
37	491.00	-10.1	65.3	2643	2691	-3.8	24.3	-310.1	1062.6	-112.8	-41.1	-15.6
38	504.00	-10.3	65.6	2643	2691	-3.9	24.4	-300.0	997.3	-99.4	-37.2	-14.7
39	517.00	-10.5	66.0	2643	2691	-4.0	24.5	-289.7	931.7	-86.9	-33.3	-13.8
40	530.00	-11.6	66.2	2643	2691	-4.4	24.6	-279.2	865.7	-75.2	-29.7	-12.9
41	543.00	-12.8	66.4	2643	2691	-4.8	24.7	-267.5	799.5	-64.4	-26.1	-12.0
42	556.00	-13.9	66.6	2643	2691	-5.3	24.7	-254.8	733.1	-54.4	-22.7	-11.1
43	569.00	-15.1	66.7	2643	2691	-5.7	24.8	-240.8	666.5	-45.3	-19.5	-10.2
44	582.00	-16.3	66.9	2643	2691	-6.2	24.9	-225.7	599.8	-37.1	-16.4	-9.2
45	595.00	-17.4	67.1	2643	2691	-6.6	24.9	-209.5	532.9	-29.7	-13.6	-8.2
46	608.00	-18.6	67.3	2643	2691	-7.0	25.0	-192.0	465.7	-23.2	-11.0	-7.3
47	621.00	-19.8	67.0	2643	2691	-7.5	24.9	-173.5	398.4	-17.6	-8.6	-6.3
48	634.00	-23.2	66.8	2847	2599	-8.1	25.7	-153.6	331.4	-12.9	-6.5	-5.3
49	648.00	-25.1	60.5	2847	2403	-8.8	25.2	-130.4	264.5	-8.7	-4.5	-4.3
50	662.00	-27.1	57.5	2847	2203	-9.5	26.1	-105.4	204.0	-5.4	-2.9	-3.3
51	676.00	-29.0	53.5	2847	2007	-10.2	26.7	-78.3	146.5	-3.0	-1.6	-2.2
PENT	690.00	-49.3	93.0	5693	3733	-8.7	24.9	-49.3	93.0	-1.3	-.7	-2.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	4.5	83.2	5449	5023	.8	16.6	15.0	3332.8	-1225.9	-49.3	-9.7
MEZZ	22.000	6.2	48.4	2847	2898	2.2	16.7	10.5	3249.6	-1153.5	-49.6	-13.2
2	36.000	6.3	46.2	2643	2691	2.4	17.2	4.3	3201.2	-1108.4	-49.7	-13.3
3	49.000	6.7	47.5	2643	2691	2.5	17.6	-2.0	3155.0	-1067.0	-49.7	-13.3
4	62.000	7.2	48.7	2643	2691	2.7	18.1	-8.7	3107.5	-1026.3	-49.7	-13.3
5	75.000	7.7	50.0	2643	2691	2.9	18.6	-15.9	3058.8	-986.3	-49.5	-13.3
6	88.000	8.2	51.2	2643	2691	3.1	19.0	-23.6	3008.8	-946.8	-49.3	-13.3
7	101.000	8.6	52.4	2643	2691	3.3	19.5	-31.8	2957.6	-908.0	-48.9	-13.3
8	114.000	9.1	53.7	2643	2691	3.4	19.9	-40.4	2905.2	-869.9	-48.4	-13.2
9	127.000	8.5	54.8	2643	2691	3.2	20.4	-49.5	2851.5	-832.5	-47.8	-13.1
10	140.000	7.3	56.0	2643	2691	2.7	20.8	-58.0	2796.7	-795.8	-47.1	-13.0
11	153.000	6.1	57.1	2643	2691	2.3	21.2	-65.3	2740.7	-759.8	-46.3	-14.0
12	166.000	4.9	58.2	2643	2691	1.8	21.6	-71.3	2683.6	-724.5	-45.5	-14.0
13	179.000	3.7	59.3	2643	2691	1.4	22.1	-76.2	2625.4	-690.0	-44.5	-14.0
14	192.000	2.5	60.5	2643	2691	.9	22.5	-79.9	2566.1	-656.3	-43.5	-13.9
15	205.000	1.3	61.6	2643	2691	.5	22.9	-82.3	2505.6	-623.3	-42.4	-13.8
16	218.000	.1	62.7	2643	2691	.0	23.3	-83.6	2444.0	-591.1	-41.3	-13.6
17	231.000	.1	63.8	2643	2691	.0	23.4	-83.7	2381.3	-559.8	-40.2	-13.4
18	244.000	.1	63.3	2643	2691	.0	23.5	-83.8	2318.3	-529.2	-39.2	-13.3
19	257.000	.1	63.6	2643	2691	.0	23.6	-83.9	2255.0	-499.5	-38.1	-13.2
20	270.000	.1	63.9	2643	2691	.0	23.7	-83.9	2191.4	-470.6	-37.0	-13.0
21	283.000	.1	64.1	2643	2691	.0	23.8	-84.0	2127.5	-442.5	-35.9	-12.9
22	296.000	.1	64.4	2643	2691	.0	23.9	-84.2	2063.4	-415.3	-34.8	-12.8
23	309.000	.1	64.7	2643	2691	.0	24.0	-84.3	1998.9	-388.9	-33.7	-12.7
24	322.000	.1	65.0	2643	2691	.0	24.1	-84.4	1934.2	-363.3	-32.6	-11.9
25	335.000	.1	65.2	2643	2691	.0	24.2	-84.5	1869.2	-338.6	-31.5	-11.6
26	348.000	.1	65.5	2643	2691	.0	24.3	-84.6	1804.0	-314.7	-30.4	-11.3
27	361.000	.1	65.7	2643	2691	.0	24.4	-84.8	1738.6	-291.7	-29.3	-11.0
28	374.000	.1	65.9	2643	2691	.0	24.5	-84.9	1672.8	-269.5	-28.2	-10.7
29	387.000	.1	66.2	2643	2691	.0	24.6	-85.0	1606.9	-248.2	-27.1	-10.4
30	400.000	.1	66.4	2643	2691	.0	24.7	-85.2	1540.7	-227.7	-26.0	-10.1
31	413.000	.1	66.7	2643	2691	.0	24.8	-85.3	1474.3	-208.0	-24.9	-9.8
32	426.000	.3	67.0	2643	2691	.1	24.9	-85.4	1407.6	-189.2	-23.8	-9.5
33	439.000	.6	67.4	2643	2691	.2	25.0	-85.7	1340.6	-171.6	-22.7	-9.1
34	452.000	1.0	67.7	2643	2691	.4	25.2	-86.4	1273.3	-154.6	-21.6	-8.8
35	465.000	1.3	68.1	2643	2691	.5	25.3	-87.3	1205.6	-138.5	-20.4	-8.4
36	478.000	1.6	68.5	2643	2691	.6	25.4	-88.6	1137.5	-123.2	-19.3	-8.0
37	491.000	1.9	68.8	2643	2691	.7	25.6	-90.2	1069.0	-108.9	-18.1	-7.6
38	504.000	2.2	69.2	2643	2691	.8	25.7	-92.1	1000.2	-95.4	-16.9	-7.1
39	517.000	2.6	69.6	2643	2691	1.0	25.8	-94.4	931.0	-82.9	-15.7	-6.7
40	530.000	1.8	69.8	2643	2691	.7	25.9	-96.9	861.5	-71.5	-14.5	-6.2
41	543.000	1.0	70.0	2643	2691	.4	26.0	-98.7	791.7	-60.9	-13.2	-5.7
42	556.000	.1	70.2	2643	2691	.0	26.1	-99.7	721.5	-51.0	-11.9	-5.2
43	569.000	-.7	70.4	2643	2691	-.3	26.2	-99.8	651.1	-41.7	-10.6	-4.7
44	582.000	-1.6	70.6	2643	2691	-.6	26.2	-99.1	581.1	-33.1	-9.3	-4.2
45	595.000	-2.4	70.8	2643	2691	-.9	26.3	-97.5	510.4	-26.0	-8.0	-3.7
46	608.000	-3.3	71.1	2643	2691	-1.2	26.4	-95.1	439.6	-20.1	-6.6	-3.2
47	621.000	-4.2	70.5	2643	2691	-1.6	26.2	-91.8	368.5	-15.2	-5.4	-2.7
48	634.000	-5.6	67.8	2847	2599	-2.0	26.1	-87.6	298.0	-10.9	-4.2	-2.2
49	648.000	-6.8	59.5	2847	2403	-2.4	24.7	-81.9	230.2	-7.2	-3.2	-2.2
50	662.000	-14.8	53.5	2847	2203	-5.2	24.3	-75.1	170.2	-4.2	-2.1	-2.2
51	676.000	-23.9	45.2	2847	2007	-8.4	22.5	-60.3	117.2	-2.3	-1.2	-2.2
PENT	690.00	-36.5	72.0	5693	3733	-6.4	19.3	-36.5	72.0	-1.0	-.1	-1.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 140 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-.9	69.0	5449	5023	-.2	13.7	179.1	3071.8	-1111.5	71.5	8.7
MEZZ	22.00	-2.0	49.5	2847	2898	-.7	17.1	180.0	3002.8	-1044.6	67.5	7.2
2	36.00	-1.4	46.8	2643	2691	-.5	17.4	182.0	2953.3	-1002.9	65.0	7.1
3	49.00	-.9	47.5	2643	2691	-.3	17.7	183.4	2906.5	-964.9	62.6	7.0
4	62.00	-.4	48.3	2643	2691	-.2	17.9	184.2	2859.0	-927.4	60.2	6.8
5	75.00	.0	49.0	2643	2691	.0	18.2	184.7	2810.7	-890.5	57.9	6.5
6	88.00	.5	49.8	2643	2691	.2	18.5	184.6	2761.7	-854.3	55.5	6.2
7	101.00	1.0	50.5	2643	2691	.4	18.8	184.1	2711.9	-818.7	53.1	5.9
8	114.00	1.4	51.3	2643	2691	.5	19.0	183.1	2661.4	-783.8	50.7	5.5
9	127.00	1.3	52.2	2643	2691	.5	19.4	181.7	2610.2	-749.5	48.3	5.0
10	140.00	1.0	53.2	2643	2691	.4	19.8	180.4	2558.0	-715.9	45.9	4.6
11	153.00	.6	54.2	2643	2691	.2	20.2	179.4	2504.8	-683.0	43.6	4.2
12	166.00	.3	55.2	2643	2691	.1	20.5	178.7	2450.5	-650.8	41.3	3.8
13	179.00	-.1	56.3	2643	2691	-.0	20.9	178.5	2395.3	-619.3	39.0	3.5
14	192.00	-.5	57.3	2643	2691	-.2	21.3	178.6	2339.0	-588.5	36.8	3.3
15	205.00	-.8	58.3	2643	2691	-.3	21.7	179.1	2281.8	-558.5	34.6	3.0
16	218.00	-1.2	59.3	2643	2691	-.4	22.0	179.9	2223.5	-529.2	32.5	2.9
17	231.00	-1.2	59.6	2643	2691	-.1	22.1	181.1	2164.1	-500.7	29.7	2.6
18	244.00	.8	59.9	2643	2691	.3	22.2	181.2	2104.5	-473.0	27.3	2.4
19	257.00	1.9	60.1	2643	2691	.7	22.3	180.4	2044.7	-446.0	24.9	2.2
20	270.00	2.9	60.4	2643	2691	1.1	22.4	178.5	1984.6	-419.8	22.6	2.0
21	283.00	3.9	60.6	2643	2691	1.5	22.5	175.6	1924.2	-394.4	20.3	1.9
22	296.00	5.0	60.9	2643	2691	1.9	22.6	171.7	1863.6	-369.8	18.1	1.8
23	309.00	6.0	61.2	2643	2691	2.3	22.7	166.7	1802.7	-345.9	15.9	1.6
24	322.00	6.8	61.3	2643	2691	2.6	22.8	160.7	1741.5	-322.9	13.7	1.4
25	335.00	7.0	61.3	2643	2691	2.6	22.8	154.0	1680.2	-300.7	11.7	1.2
26	348.00	7.2	61.2	2643	2691	2.7	22.7	147.0	1618.9	-279.2	9.7	1.0
27	361.00	7.4	61.1	2643	2691	2.8	22.7	139.8	1557.7	-258.6	7.8	.8
28	374.00	7.6	61.1	2643	2691	2.9	22.7	132.4	1496.6	-238.7	6.1	.6
29	387.00	7.8	61.0	2643	2691	2.9	22.7	124.9	1435.5	-219.7	4.4	.4
30	400.00	8.0	61.0	2643	2691	3.0	22.7	117.1	1374.4	-201.4	2.8	.2
31	413.00	8.2	60.9	2643	2691	3.1	22.6	109.1	1313.5	-183.9	1.4	.0
32	426.00	8.6	60.9	2643	2691	3.3	22.7	100.9	1252.5	-167.3	-.1	-.2
33	439.00	9.3	61.0	2643	2691	3.5	22.7	92.3	1191.6	-151.4	-1.3	-.4
34	452.00	9.9	61.0	2643	2691	3.7	22.7	83.0	1130.7	-136.3	-2.4	-.5
35	465.00	10.5	61.0	2643	2691	4.0	22.7	73.2	1069.7	-122.0	-3.4	-.7
36	478.00	11.1	61.1	2643	2691	4.2	22.7	62.7	1008.6	-108.5	-4.3	-.8
37	491.00	11.7	61.1	2643	2691	4.4	22.7	51.6	947.6	-95.7	-5.1	-.9
38	504.00	12.4	61.2	2643	2691	4.7	22.7	39.8	886.4	-83.8	-5.6	-.9
39	517.00	13.0	61.2	2643	2691	4.9	22.7	27.5	825.3	-72.7	-6.1	-.9
40	530.00	12.3	61.7	2643	2691	4.7	22.9	14.5	764.1	-62.4	-6.4	-1.0
41	543.00	11.6	62.2	2643	2691	4.4	23.1	2.4	702.4	-52.8	-6.5	-1.0
42	556.00	10.8	62.8	2643	2691	4.1	23.3	-9.4	640.1	-44.1	-6.4	-1.1
43	569.00	10.1	63.3	2643	2691	3.8	23.5	-20.2	577.4	-36.2	-6.2	-1.1
44	582.00	9.3	63.8	2643	2691	3.5	23.7	-30.3	514.1	-29.1	-5.9	-1.1
45	595.00	8.5	64.4	2643	2691	3.2	23.9	-39.6	450.3	-22.8	-5.4	-1.1
46	608.00	7.8	64.9	2643	2691	2.9	24.1	-48.1	385.9	-17.4	-4.9	-1.1
47	621.00	6.3	64.7	2643	2691	2.4	24.1	-55.9	321.0	-12.8	-4.2	-1.1
48	634.00	2.5	61.2	2847	2599	.9	23.5	-62.3	256.3	-9.0	-3.4	-1.0
49	648.00	-1.9	53.1	2847	2403	-.7	22.1	-64.8	195.1	-5.9	-2.5	-1.4
50	662.00	-13.2	46.9	2847	2203	-4.6	21.3	-62.9	142.0	-3.5	-1.6	-2.2
51	676.00	-25.6	37.8	2847	2007	-9.0	18.8	-49.7	95.0	-1.9	-.9	-2.2
PENT	690.00	-24.0	57.3	5693	3733	-4.2	15.3	-24.0	57.3	-.8	-.3	-1.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 150 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	22.7	48.7	5449	5023	4.2	9.7	336.7	2549.8	-945.2	125.6	17.2
MEZZ	22.00	7.4	37.2	2847	2898	2.6	12.9	314.0	2501.1	-889.6	118.4	17.2
2	36.00	5.8	35.3	2643	2691	2.2	13.1	306.7	2463.8	-854.9	114.1	17.3
3	49.00	4.7	35.9	2643	2691	1.8	13.3	300.9	2428.6	-823.1	110.1	17.3
4	62.00	3.7	36.6	2643	2691	1.4	13.6	296.2	2392.6	-791.7	106.2	17.3
5	75.00	2.7	37.2	2643	2691	1.0	13.8	292.5	2356.1	-760.9	102.4	17.2
6	88.00	1.7	37.9	2643	2691	.6	14.1	289.8	2318.8	-730.5	98.6	17.2
7	101.00	.6	38.5	2643	2691	.2	14.3	288.1	2281.0	-700.6	94.9	16.8
8	114.00	-.4	39.2	2643	2691	-.2	14.6	287.5	2242.4	-671.2	91.1	16.5
9	127.00	-.5	40.0	2643	2691	-.2	14.9	287.9	2203.2	-642.3	87.4	16.2
10	140.00	-.1	41.0	2643	2691	-.0	15.2	288.4	2163.2	-613.9	83.6	15.8
11	153.00	.2	41.9	2643	2691		15.6	288.5	2122.3	-586.0	79.9	15.4
12	166.00	.6	42.8	2643	2691	.2	15.9	288.3	2080.3	-558.7	76.1	15.1
13	179.00	.9	43.8	2643	2691	.4	16.3	287.7	2037.5	-532.0	72.4	14.7
14	192.00	1.3	44.7	2643	2691	.5	16.6	286.7	1993.7	-505.8	68.7	14.4
15	205.00	1.7	45.6	2643	2691	.6	17.0	285.4	1949.0	-480.1	64.9	14.1
16	218.00	2.0	46.6	2643	2691	.8	17.3	283.8	1903.4	-455.1	61.2	13.8
17	231.00	2.9	47.2	2643	2691	1.1	17.5	281.8	1856.8	-430.6	57.6	13.4
18	244.00	3.8	47.8	2643	2691	1.4	17.8	278.8	1809.3	-406.6	53.9	13.1
19	257.00	4.6	48.4	2643	2691	1.8	18.0	275.1	1761.9	-383.0	50.3	12.8
20	270.00	5.5	49.0	2643	2691	2.1	18.2	270.5	1713.5	-361.0	46.8	12.4
21	283.00	6.4	49.6	2643	2691	2.4	18.4	265.0	1664.4	-339.7	43.3	12.1
22	296.00	7.2	50.3	2643	2691	2.7	18.7	258.6	1614.8	-317.7	39.9	11.7
23	309.00	8.1	50.9	2643	2691	3.1	18.9	251.4	1564.7	-297.1	36.6	11.3
24	322.00	8.7	51.4	2643	2691	3.3	19.1	243.3	1513.7	-277.1	33.4	10.9
25	335.00	8.7	51.8	2643	2691	3.3	19.3	234.5	1462.4	-257.9	30.3	10.5
26	348.00	8.7	52.2	2643	2691	3.3	19.4	225.9	1410.4	-239.5	27.3	10
27	361.00	8.6	52.6	2643	2691	3.3	19.5	217.2	1358.2	-222.0	24.4	9.6
28	374.00	8.6	53.0	2643	2691	3.3	19.7	208.7	1305.5	-205.3	21.6	9.2
29	387.00	8.6	53.4	2643	2691	3.3	19.8	199.9	1252.6	-189.7	19.0	8.8
30	400.00	8.6	53.8	2643	2691	3.2	20.0	191.3	1199.2	-175.1	16.4	8.4
31	413.00	8.5	54.2	2643	2691	3.2	20.1	182.8	1145.5	-161.5	14.0	7.9
32	426.00	9.2	54.4	2643	2691	3.5	20.2	174.2	1091.3	-149.1	11.7	7.5
33	439.00	10.3	54.4	2643	2691	3.9	20.2	165.0	1037.0	-137.6	9.5	7.1
34	452.00	11.5	54.5	2643	2691	4.3	20.2	154.7	982.5	-127.1	7.5	6.6
35	465.00	12.6	54.5	2643	2691	4.8	20.3	143.2	928.1	-117.4	5.7	6.1
36	478.00	13.7	54.6	2643	2691	5.2	20.3	130.6	873.9	-108.4	4.0	5.6
37	491.00	14.9	54.7	2643	2691	5.6	20.3	116.8	818.9	-100.0	2.5	5.1
38	504.00	16.0	54.7	2643	2691	6.1	20.3	102.0	764.2	-92.1	1.2	4.6
39	517.00	17.1	54.8	2643	2691	6.5	20.4	86.0	709.7	-84.7	.1	4.2
40	530.00	16.7	55.5	2643	2691	6.3	20.6	68.8	654.5	-77.6	-.6	3.8
41	543.00	16.1	56.2	2643	2691	6.1	20.9	52.1	599.3	-70.9	-1.3	3.4
42	556.00	15.5	56.9	2643	2691	5.9	21.1	36.0	543.9	-64.4	-1.9	3.1
43	569.00	15.0	57.6	2643	2691	5.7	21.4	20.5	488.2	-58.2	-2.4	2.7
44	582.00	14.4	58.3	2643	2691	5.4	21.7	5.5	432.3	-52.2	-2.9	2.4
45	595.00	13.8	59.0	2643	2691	5.2	21.9	-8.9	376.3	-46.4	-3.3	2.1
46	608.00	13.2	59.7	2643	2691	5.0	22.2	-22.9	311.3	-40.8	-3.6	1.7
47	621.00	11.2	59.6	2643	2691	4.2	22.1	-35.9	251.6	-35.4	-3.9	1.3
48	634.00	4.0	52.9	2847	2599	1.4	20.4	-47.1	192.0	-30.2	-4.1	.9
49	648.00	-4.4	43.1	2847	2403	-1.6	17.9	-51.0	139.0	-25.2	-4.2	.5
50	662.00	-14.0	35.9	2847	2203	-4.9	16.3	-46.6	95.9	-21.1	-4.3	.1
51	676.00	-23.8	26.0	2847	2007	-8.4	13.0	-32.6	60.0	-17.5	-4.4	-.3
PENT	690.00	-8.7	34.0	5693	3733	-1.5	9.1	-8.7	34.0	-15.1	-4.5	-.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 160 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	35.3	26.7	5449	5023	6.5	5.3	1331.5	1533.1	-566.7	517.7	23.4
MEZZ	22.00	21.3	23.2	2847	2898	7.5	8.0	1296.3	1506.4	-533.3	488.8	23.6
2	36.00	19.9	21.6	2643	2691	7.5	8.0	1275.0	1483.2	-512.3	470.8	23.7
3	49.00	20.1	21.7	2643	2691	7.6	8.0	1255.0	1461.6	-493.2	454.4	23.6
4	62.00	20.2	21.7	2643	2691	7.6	8.1	1235.0	1439.9	-474.3	438.2	23.6
5	75.00	20.3	21.8	2643	2691	7.7	8.1	1214.8	1418.2	-455.8	422.3	23.4
6	88.00	20.4	21.8	2643	2691	7.7	8.1	1194.5	1396.4	-437.5	406.6	23.3
7	101.00	20.6	21.9	2643	2691	7.8	8.1	1174.0	1374.6	-419.5	391.2	23.1
8	114.00	20.7	22.0	2643	2691	7.8	8.2	1153.4	1352.7	-401.7	376.1	22.9
9	127.00	20.4	22.7	2643	2691	7.7	8.4	1132.7	1330.7	-384.3	361.2	22.6
10	140.00	19.9	23.7	2643	2691	7.5	8.8	1112.3	1308.0	-367.1	346.6	22.3
11	153.00	19.3	24.7	2643	2691	7.3	9.2	1092.5	1284.3	-350.1	332.3	22.0
12	166.00	18.8	25.8	2643	2691	7.1	9.6	1073.2	1259.6	-333.7	318.2	21.7
13	179.00	18.3	26.8	2643	2691	6.9	10.0	1054.4	1233.8	-317.5	304.4	21.4
14	192.00	17.7	27.8	2643	2691	6.7	10.3	1036.1	1207.0	-301.7	290.8	21.1
15	205.00	17.2	28.9	2643	2691	6.5	10.7	1018.4	1179.2	-286.2	277.5	20.8
16	218.00	16.7	29.9	2643	2691	6.3	11.1	1001.2	1150.3	-271.0	264.3	20.4
17	231.00	17.3	30.1	2643	2691	6.5	11.2	984.5	1120.4	-256.3	251.4	20.1
18	244.00	17.9	30.3	2643	2691	6.8	11.3	967.2	1090.3	-241.9	238.7	19.7
19	257.00	18.6	30.5	2643	2691	7.0	11.3	949.3	1060.0	-227.9	226.3	19.2
20	270.00	19.2	30.7	2643	2691	7.3	11.4	930.7	1029.4	-214.3	214.1	18.8
21	283.00	19.9	30.9	2643	2691	7.5	11.5	911.5	998.7	-201.2	202.1	18.3
22	296.00	20.5	31.1	2643	2691	7.8	11.6	891.6	967.8	-188.4	190.4	17.7
23	309.00	21.2	31.3	2643	2691	8.0	11.6	871.1	936.6	-176.0	178.9	17.2
24	322.00	21.8	31.5	2643	2691	8.3	11.7	850.0	905.3	-164.0	167.7	16.5
25	335.00	22.6	31.6	2643	2691	8.6	11.7	828.1	873.8	-152.5	156.8	15.9
26	348.00	23.4	31.6	2643	2691	8.9	11.8	805.5	842.2	-141.3	146.2	15.2
27	361.00	24.2	31.7	2643	2691	9.1	11.8	782.1	810.5	-130.6	135.9	14.6
28	374.00	25.0	31.8	2643	2691	9.4	11.8	758.0	778.8	-120.3	125.9	13.9
29	387.00	25.7	31.8	2643	2691	9.7	11.8	733.0	747.1	-110.3	116.2	13.2
30	400.00	26.5	31.9	2643	2691	10.0	11.9	707.3	715.2	-100.8	106.8	12.4
31	413.00	27.3	32.0	2643	2691	10.3	11.9	680.8	683.4	-91.7	97.8	11.7
32	426.00	28.2	32.0	2643	2691	10.7	11.9	653.5	651.4	-83.0	89.1	11.0
33	439.00	29.2	32.0	2643	2691	11.0	11.9	625.3	619.4	-74.8	80.8	10.2
34	452.00	30.1	32.1	2643	2691	11.4	11.9	596.1	587.3	-66.9	72.9	9.5
35	465.00	31.1	32.1	2643	2691	11.8	11.9	566.0	555.3	-59.5	65.3	8.8
36	478.00	32.1	32.2	2643	2691	12.1	11.9	534.8	523.1	-52.5	58.2	8.2
37	491.00	33.1	32.2	2643	2691	12.5	12.0	502.7	491.0	-45.9	51.4	7.5
38	504.00	34.0	32.2	2643	2691	12.9	12.0	469.6	458.8	-39.7	45.1	6.9
39	517.00	35.0	32.3	2643	2691	13.2	12.0	435.6	426.6	-34.0	39.2	6.3
40	530.00	34.6	33.3	2643	2691	13.1	12.4	400.6	394.3	-28.7	33.8	5.7
41	543.00	34.1	34.5	2643	2691	12.9	12.8	366.0	361.0	-23.7	28.8	5.4
42	556.00	33.6	35.7	2643	2691	12.7	13.3	331.8	326.5	-19.3	24.3	4.8
43	569.00	33.1	36.9	2643	2691	12.5	13.7	298.2	290.8	-15.3	20.2	4.4
44	582.00	32.6	38.0	2643	2691	12.3	14.1	265.1	253.9	-11.7	16.5	4.0
45	595.00	32.1	39.2	2643	2691	12.1	14.6	232.5	215.9	-8.7	13.3	3.7
46	608.00	31.6	40.4	2643	2691	11.9	15.0	200.5	176.7	-6.1	10.5	3.3
47	621.00	30.0	41.0	2643	2691	11.4	15.2	168.9	136.3	-4.1	8.1	3.3
48	634.00	26.5	33.0	2847	2599	9.3	12.7	138.9	95.3	-2.6	6.1	3.2
49	648.00	20.4	24.5	2847	2403	7.2	10.2	112.4	62.3	-1.5	4.3	2.2
50	662.00	18.5	17.4	2847	2203	6.5	7.9	92.1	37.8	-.8	2.9	1.4
51	676.00	17.2	10.4	2847	2007	6.1	5.2	73.6	20.5	-.4	1.7	.6
PENT	690.00	56.4	10.1	5693	3733	9.9	2.7	56.4	10.1	-.1	.8	.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 170 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	41.1	-.0	5449	5023	7.5	-.0	2891.1	212.1	-57.2	1143.3	26.0
MEZZ	22.00	36.8	7.2	2847	2898	12.9	2.5	2850.0	212.1	-52.5	1080.3	26.5
2	36.00	35.4	6.5	2643	2691	13.4	2.4	2813.2	204.9	-49.6	1040.5	26.3
3	49.00	36.5	6.3	2643	2691	13.8	2.3	2777.9	198.4	-47.0	1004.2	26.2
4	62.00	37.6	6.0	2643	2691	14.2	2.2	2741.4	192.2	-44.4	968.3	26.0
5	75.00	38.7	5.8	2643	2691	14.6	2.2	2703.8	186.1	-42.0	932.9	25.8
6	88.00	39.8	5.6	2643	2691	15.1	2.1	2665.1	180.3	-39.6	898.0	25.6
7	101.00	41.0	5.4	2643	2691	15.5	2.0	2625.2	174.7	-37.3	863.6	25.5
8	114.00	42.1	5.2	2643	2691	15.9	1.9	2584.3	169.3	-35.1	829.8	25.3
9	127.00	42.7	5.2	2643	2691	16.1	1.9	2542.2	164.1	-32.9	796.4	25.2
10	140.00	43.0	5.2	2643	2691	16.3	1.9	2499.5	158.9	-30.8	763.7	25.0
11	153.00	43.3	5.3	2643	2691	16.4	2.0	2456.5	153.7	-28.8	731.4	24.8
12	166.00	43.7	5.3	2643	2691	16.5	2.0	2413.2	148.4	-26.8	699.8	24.6
13	179.00	44.0	5.4	2643	2691	16.6	2.0	2369.6	143.1	-24.9	668.7	24.3
14	192.00	44.3	5.4	2643	2691	16.8	2.0	2325.5	137.7	-23.1	638.2	24.1
15	205.00	44.7	5.5	2643	2691	16.9	2.0	2281.2	132.3	-21.3	608.2	23.9
16	218.00	45.0	5.5	2643	2691	17.0	2.1	2236.5	126.8	-19.6	578.9	23.8
17	231.00	46.2	5.3	2643	2691	17.5	2.0	2191.3	121.3	-18.0	550.1	23.6
18	244.00	47.5	5.1	2643	2691	18.0	1.9	2145.3	116.0	-16.5	521.9	23.3
19	257.00	48.7	4.9	2643	2691	18.4	1.8	2097.8	110.9	-15.0	494.3	23.1
20	270.00	49.9	4.6	2643	2691	18.9	1.7	2049.1	106.1	-13.6	467.4	22.9
21	283.00	51.2	4.4	2643	2691	19.4	1.6	1999.2	101.4	-12.2	441.1	22.7
22	296.00	52.4	4.2	2643	2691	19.8	1.6	1948.0	97.0	-10.9	415.4	22.5
23	309.00	53.7	4.0	2643	2691	20.3	1.5	1895.6	92.9	-9.7	390.4	22.3
24	322.00	54.7	3.8	2643	2691	20.7	1.4	1841.9	88.9	-8.5	366.1	22.0
25	335.00	55.4	4.0	2643	2691	21.0	1.5	1787.2	85.1	-7.4	342.5	21.9
26	348.00	56.1	4.1	2643	2691	21.2	1.5	1731.8	81.1	-6.3	319.7	21.7
27	361.00	56.8	4.2	2643	2691	21.5	1.6	1675.7	77.0	-5.3	297.5	21.5
28	374.00	57.4	4.4	2643	2691	21.7	1.6	1619.0	72.7	-4.3	276.0	21.3
29	387.00	58.1	4.5	2643	2691	22.0	1.7	1561.5	68.3	-3.4	255.1	21.1
30	400.00	58.8	4.7	2643	2691	22.2	1.7	1503.4	63.8	-2.5	235.0	20.9
31	413.00	59.5	4.8	2643	2691	22.5	1.8	1444.6	59.1	-1.7	215.6	20.7
32	426.00	60.1	4.8	2643	2691	22.7	1.8	1385.1	54.4	-1.0	197.0	20.5
33	439.00	60.7	4.7	2643	2691	23.0	1.8	1325.0	49.5	-.3	179.3	20.3
34	452.00	61.4	4.6	2643	2691	23.2	1.7	1264.3	44.4	.3	162.5	20.1
35	465.00	62.0	4.6	2643	2691	23.5	1.7	1202.9	40.2	.8	146.7	19.9
36	478.00	62.6	4.5	2643	2691	23.7	1.7	1140.9	35.6	1.3	131.8	19.7
37	491.00	63.3	4.4	2643	2691	23.9	1.6	1078.3	31.2	1.8	117.8	19.5
38	504.00	63.9	4.3	2643	2691	24.2	1.6	1015.0	26.8	2.1	104.8	19.3
39	517.00	64.5	4.2	2643	2691	24.4	1.6	951.1	22.5	2.5	91.4	19.1
40	530.00	64.9	4.8	2643	2691	24.6	1.8	886.6	18.2	2.7	78.5	18.9
41	543.00	65.3	5.4	2643	2691	24.7	2.0	821.7	13.5	2.9	66.4	18.7
42	556.00	65.7	6.0	2643	2691	24.9	2.2	756.4	8.2	3.1	54.8	18.5
43	569.00	66.1	6.6	2643	2691	25.0	2.4	690.7	2.1	3.1	43.8	18.3
44	582.00	66.5	7.2	2643	2691	25.2	2.7	624.6	-4.5	3.1	33.4	18.1
45	595.00	66.9	7.8	2643	2691	25.3	2.9	558.1	-11.7	3.0	23.8	17.9
46	608.00	67.3	8.4	2643	2691	25.4	3.1	491.2	-19.4	2.8	14.9	17.7
47	621.00	66.5	9.0	2643	2691	25.2	3.3	423.9	-27.8	2.5	6.7	17.5
48	634.00	66.0	1.2	2847	2599	23.2	.3	357.4	-36.8	2.1	-.6	17.3
49	648.00	60.2	-2.3	2847	2403	21.1	-1.0	291.5	-38.0	1.6	-7.1	17.1
50	662.00	59.0	-7.0	2847	2203	20.7	-3.2	231.3	-35.7	1.0	-13.3	16.9
51	676.00	58.6	-10.1	2847	2007	20.6	-5.0	172.7	-28.7	.3	-18.6	16.8
PENT	690.00	113.7	-18.5	5693	3733	20.0	-5.0	113.7	-18.5	.3	-23.6	16.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 180 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	48.5	-11.1	5449	5023	8.9	-2.2	3928.8	-191.5	112.4	1561.2	14.0
MEZZ	22.00	47.0	1.1	2847	2898	16.5	.4	3880.3	-180.4	108.3	1475.3	14.9
2	36.00	46.0	1.3	2643	2691	17.4	.5	3833.3	-181.5	105.8	1421.3	14.7
3	49.00	48.2	1.6	2643	2691	18.2	.6	3787.3	-182.9	103.4	1371.7	14.6
4	62.00	50.4	1.9	2643	2691	19.1	.7	3739.1	-184.5	101.0	1322.8	14.5
5	75.00	52.6	2.2	2643	2691	19.9	.8	3688.7	-186.4	98.6	1274.5	14.3
6	88.00	54.8	2.5	2643	2691	20.7	.9	3636.1	-188.6	96.2	1226.9	14.2
7	101.00	57.1	2.8	2643	2691	21.6	1.0	3581.3	-191.1	93.7	1180.0	14.1
8	114.00	59.3	3.1	2643	2691	22.4	1.1	3524.2	-193.9	91.2	1133.8	14.0
9	127.00	60.1	3.1	2643	2691	22.7	1.1	3465.0	-197.0	88.6	1088.4	13.9
10	140.00	60.2	2.9	2643	2691	22.8	1.1	3404.9	-200.1	86.1	1043.7	13.8
11	153.00	60.4	2.7	2643	2691	22.9	1.0	3344.6	-202.9	83.4	999.9	13.7
12	166.00	60.6	2.5	2643	2691	22.9	.9	3284.2	-205.2	80.8	956.8	13.6
13	179.00	60.7	2.4	2643	2691	23.0	.9	3223.7	-208.1	78.1	914.5	13.4
14	192.00	60.9	2.2	2643	2691	23.0	.8	3162.9	-210.6	75.4	873.0	13.3
15	205.00	61.0	2.0	2643	2691	23.1	.7	3102.1	-212.7	72.6	832.2	13.2
16	218.00	61.2	1.8	2643	2691	23.1	.7	3041.0	-214.8	69.8	792.3	13.0
17	231.00	62.4	1.0	2643	2691	23.6	.4	2979.9	-216.6	67.0	753.2	12.9
18	244.00	63.7	.2	2643	2691	24.1	.1	2917.4	-217.8	64.2	714.8	12.8
19	257.00	64.9	-.7	2643	2691	24.6	-.2	2853.7	-217.8	61.4	677.3	12.7
20	270.00	66.2	-1.5	2643	2691	25.0	-.6	2788.8	-217.1	58.6	640.6	12.5
21	283.00	67.4	-2.3	2643	2691	25.5	-.9	2722.6	-215.3	55.7	604.8	12.4
22	296.00	68.7	-3.2	2643	2691	26.0	-1.2	2655.2	-213.3	53.0	569.9	11.5
23	309.00	69.9	-4.0	2643	2691	26.5	-1.5	2586.5	-210.1	50.2	535.8	11.1
24	322.00	71.4	-4.7	2643	2691	27.0	-1.7	2516.6	-206.1	47.4	502.6	10.2
25	335.00	73.4	-5.0	2643	2691	27.8	-1.9	2445.2	-201.4	44.9	470.4	1
26	348.00	75.4	-5.3	2643	2691	28.5	-2.0	2371.8	-196.4	42.3	438.1	9.9
27	361.00	77.4	-5.6	2643	2691	29.3	-2.1	2296.3	-191.0	39.7	406.7	9.8
28	374.00	79.4	-6.0	2643	2691	30.1	-2.2	2218.9	-185.4	37.3	379.4	9.8
29	387.00	81.4	-6.3	2643	2691	30.8	-2.3	2139.5	-179.4	34.8	351.0	9.6
30	400.00	83.4	-6.6	2643	2691	31.6	-2.4	2058.0	-173.2	32.4	323.5	8.8
31	413.00	85.5	-6.9	2643	2691	32.3	-2.6	1974.6	-166.7	30.4	297.2	8.8
32	426.00	86.1	-6.8	2643	2691	32.6	-2.5	1889.1	-159.7	28.3	272.8	8.8
33	439.00	85.8	-6.4	2643	2691	32.5	-2.4	1803.1	-152.9	26.3	249.5	8.8
34	452.00	85.5	-5.9	2643	2691	32.4	-2.2	1717.3	-146.6	24.3	225.3	8.8
35	465.00	85.3	-5.5	2643	2691	32.3	-2.1	1631.7	-140.6	22.3	203.3	8.8
36	478.00	85.0	-5.1	2643	2691	32.1	-1.9	1546.5	-135.1	20.3	183.1	8.8
37	491.00	84.7	-4.7	2643	2691	32.0	-1.7	1461.5	-130.3	19.0	163.6	8.8
38	504.00	84.4	-4.3	2643	2691	31.9	-1.6	1376.8	-125.3	17.3	145.1	8.8
39	517.00	84.1	-3.9	2643	2691	31.8	-1.4	1292.4	-121.0	15.7	127.8	8.8
40	530.00	84.5	-3.9	2643	2691	32.0	-1.4	1208.2	-117.2	14.1	111.5	8.8
41	543.00	85.0	-3.9	2643	2691	32.2	-1.5	1123.7	-113.3	12.6	96.3	8.8
42	556.00	85.5	-4.0	2643	2691	32.3	-1.5	1038.7	-109.3	11.2	82.3	8.8
43	569.00	85.9	-4.1	2643	2691	32.5	-1.5	953.2	-105.3	9.8	69.5	8.8
44	582.00	86.4	-4.1	2643	2691	32.7	-1.5	867.2	-101.2	8.5	57.8	8.7
45	595.00	86.8	-4.2	2643	2691	32.9	-1.6	780.9	-97.1	7.2	46.7	8.2
46	608.00	87.3	-4.3	2643	2691	33.0	-1.6	694.1	-92.8	5.9	36.8	7.7
47	621.00	87.1	-4.3	2691	2691	32.9	-1.6	606.8	-88.3	4.6	28.0	7.7
48	634.00	90.6	-11.4	2847	2599	31.8	-4.4	519.7	-84.3	3.6	21.4	7.6
49	648.00	87.4	-12.4	2847	2403	30.7	-5.2	429.1	-72.2	2.5	14.8	6.5
50	662.00	87.9	-16.5	2847	2203	30.9	-7.5	341.7	-60.5	1.6	9.4	5.3
51	676.00	88.9	-17.4	2847	2007	31.2	-8.7	253.8	-44.0	.9	5.2	3.2
PENT	690.00	164.9	-26.6	5693	3733	29.0	-7.1	164.9	-26.6	.4	2.3	1.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 190 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	59.3	-32.0	5449	5023	10.9	-6.4	4911.7	-202.5	54.9	1896.6	-2.1
MEZZ	22.00	59.1	-10.1	2847	2898	20.8	-3.5	4852.4	-170.5	50.8	1789.7	-1.5
2	36.00	58.4	-8.9	2643	2691	22.1	-3.3	4793.3	-160.3	48.5	1721.8	-1.8
3	49.00	61.8	-8.4	2643	2691	23.4	-3.1	4734.9	-151.4	46.5	1659.8	-2.0
4	62.00	65.2	-7.9	2643	2691	24.7	-2.9	4673.1	-143.0	44.6	1598.6	-2.1
5	75.00	68.6	-7.4	2643	2691	25.9	-2.8	4607.9	-135.1	42.8	1538.0	-2.3
6	88.00	72.0	-6.9	2643	2691	27.2	-2.6	4539.3	-127.7	41.0	1478.0	-2.4
7	101.00	75.3	-6.4	2643	2691	28.5	-2.4	4467.4	-120.8	39.4	1420.7	-2.5
8	114.00	78.7	-5.9	2643	2691	29.8	-2.2	4392.0	-114.4	37.8	1362.1	-2.5
9	127.00	80.7	-5.4	2643	2691	30.5	-2.0	4313.3	-108.5	36.5	1306.1	-2.5
10	140.00	81.9	-4.8	2643	2691	31.0	-1.8	4232.6	-103.1	35.3	1250.1	-2.5
11	153.00	83.2	-4.3	2643	2691	31.5	-1.6	4150.7	-98.3	33.2	1196.1	-2.4
12	166.00	84.5	-3.7	2643	2691	32.0	-1.4	4067.5	-94.0	32.1	1142.0	-2.3
13	179.00	85.8	-3.1	2643	2691	32.4	-1.2	3983.0	-90.3	31.0	1090.1	-2.2
14	192.00	87.0	-2.6	2643	2691	32.9	-1.0	3897.2	-87.2	30.2	1039.1	-2.2
15	205.00	88.3	-2.0	2643	2691	33.4	-.8	3810.2	-84.6	29.5	988.9	-2.2
16	218.00	89.6	-1.5	2643	2691	33.9	-.6	3721.9	-82.6	28.8	940.0	-1.8
17	231.00	90.1	-1.6	2643	2691	34.1	-.6	3632.3	-81.1	28.5	892.5	-1.6
18	244.00	90.7	-1.7	2643	2691	34.3	-.6	3542.2	-79.8	28.2	845.0	-1.4
19	257.00	91.3	-1.8	2643	2691	34.5	-.7	3451.5	-78.5	27.9	797.6	-1.2
20	270.00	91.9	-1.9	2643	2691	34.8	-.7	3360.2	-77.2	27.6	750.2	-1.0
21	283.00	92.4	-2.0	2643	2691	35.0	-.7	3268.3	-74.2	27.3	702.9	-.8
22	296.00	93.0	-2.1	2643	2691	35.2	-.8	3175.9	-72.2	27.1	655.7	-.6
23	309.00	93.6	-2.2	2643	2691	35.4	-.8	3082.9	-70.2	26.9	608.6	-.5
24	322.00	94.2	-2.2	2643	2691	35.6	-.8	2989.3	-68.3	26.7	561.6	-.3
25	335.00	95.0	-2.2	2643	2691	35.9	-.8	2895.1	-66.5	26.5	514.8	-.2
26	348.00	95.7	-2.1	2643	2691	36.2	-.8	2800.2	-64.7	26.3	468.1	-.1
27	361.00	96.5	-2.1	2643	2691	36.5	-.8	2704.5	-63.0	26.1	421.5	.0
28	374.00	97.2	-2.0	2643	2691	36.8	-.8	2608.0	-61.5	25.9	375.0	.2
29	387.00	98.0	-2.0	2643	2691	37.1	-.8	2510.8	-59.9	25.7	328.6	.4
30	400.00	98.7	-1.9	2643	2691	37.4	-.7	2412.8	-58.5	25.5	282.3	.6
31	413.00	99.5	-1.9	2643	2691	37.6	-.7	2314.0	-57.0	25.3	236.1	.8
32	426.00	99.8	-1.6	2643	2691	37.7	-.6	2214.5	-55.6	25.2	190.0	1.1
33	439.00	99.8	-1.1	2643	2691	37.8	-.4	2114.2	-54.5	25.1	144.0	1.3
34	452.00	99.8	-.7	2643	2691	37.8	-.2	2014.9	-53.8	25.0	98.1	1.6
35	465.00	99.8	-.2	2643	2691	37.8	-.1	1915.7	-53.3	24.9	52.3	1.8
36	478.00	99.9	.2	2643	2691	37.8	.1	1815.5	-53.0	24.9	6.5	2.1
37	491.00	99.9	.7	2643	2691	37.8	.3	1715.3	-53.0	24.9	-39.3	2.3
38	504.00	99.9	1.2	2643	2691	37.8	.4	1615.1	-53.2	24.9	-85.1	2.6
39	517.00	99.9	1.6	2643	2691	37.8	.6	1515.0	-53.6	24.9	-130.8	2.8
40	530.00	99.9	1.5	2643	2691	37.8	.6	1414.8	-54.2	24.9	-176.4	3.0
41	543.00	99.9	1.4	2643	2691	37.8	.5	1314.6	-54.9	24.9	-221.9	3.3
42	556.00	100.0	1.3	2643	2691	37.8	.5	1214.4	-55.8	24.9	-267.3	3.5
43	569.00	100.0	1.2	2643	2691	37.8	.4	1114.2	-56.8	24.9	-312.6	3.7
44	582.00	100.0	1.0	2643	2691	37.8	.4	1014.0	-57.9	24.9	-357.8	3.9
45	595.00	100.0	.9	2643	2691	37.8	.3	913.9	-59.3	24.9	-402.9	4.1
46	608.00	100.0	.8	2643	2691	37.8	.3	813.8	-60.7	24.9	-447.9	4.3
47	621.00	99.8	.4	2643	2691	37.8	.2	713.8	-62.2	24.9	-492.8	4.5
48	634.00	106.4	-5.8	2847	2599	37.4	-2.1	615.9	-63.9	24.9	-537.6	4.6
49	646.00	105.9	-7.4	2847	2403	37.0	-3.1	509.5	-65.3	24.9	-582.3	4.8
50	662.00	105.8	-11.7	2847	2203	37.0	-5.3	404.6	-67.4	24.9	-626.9	5.0
51	676.00	106.8	-13.1	2847	2007	37.5	-6.5	298.8	-69.2	24.9	-671.4	5.2
PENT	690.00	191.6	-22.4	5693	3733	33.7	-6.0	191.6	-22.4	24.9	-715.8	5.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 200 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	58.3	-33.7	5449	5023	10.7	-6.7	5036.6	-68.9	-28.4	1982.9	-4.2
MEZZ	22.00	53.5	-16.7	2847	2898	18.8	-5.8	4978.3	-35.2	-29.5	1872.7	-3.9
2	36.00	53.1	-14.7	2643	2691	20.1	-5.5	4924.8	-18.5	-29.9	1803.4	-3.9
3	49.00	56.3	-13.9	2643	2691	21.3	-5.2	4871.7	-3.8	-30.0	1739.7	-4.2
4	62.00	59.6	-13.1	2643	2691	22.5	-4.9	4815.4	10.0	-30.0	1676.8	-4.4
5	75.00	62.8	-12.2	2643	2691	23.8	-4.6	4755.8	23.1	-29.8	1614.6	-4.5
6	88.00	66.0	-11.4	2643	2691	25.0	-4.2	4693.0	35.3	-29.4	1553.1	-4.6
7	101.00	69.3	-10.6	2643	2691	26.2	-3.9	4627.0	46.8	-28.8	1492.6	-4.7
8	114.00	72.5	-9.8	2643	2691	27.4	-3.6	4557.7	57.4	-28.2	1432.9	-4.8
9	127.00	75.2	-8.9	2643	2691	28.4	-3.2	4485.2	67.2	-27.4	1374.1	-4.8
10	140.00	77.6	-6.9	2643	2691	29.4	-2.6	4410.4	75.7	-26.4	1316.3	-4.8
11	153.00	80.0	-5.4	2643	2691	30.3	-2.0	4332.4	82.6	-25.4	1259.4	-4.8
12	166.00	82.5	-3.8	2643	2691	31.2	-1.4	4252.3	88.0	-24.3	1203.6	-4.7
13	179.00	84.9	-2.2	2643	2691	32.1	-.8	4169.8	91.8	-23.1	1148.9	-4.6
14	192.00	87.3	-.6	2643	2691	33.0	-.2	4084.9	94.0	-21.9	1095.2	-4.5
15	205.00	89.7	.9	2643	2691	34.0	.3	3997.6	94.7	-20.5	1042.7	-4.4
16	218.00	92.2	2.5	2643	2691	34.9	.9	3907.9	93.7	-19.0	991.3	-4.2
17	231.00	93.1	2.4	2643	2691	35.2	.9	3815.7	91.2	-18.3	941.1	-4.0
18	244.00	94.1	2.3	2643	2691	35.6	.9	3722.6	88.4	-17.1	892.1	-3.8
19	257.00	95.0	2.3	2643	2691	35.9	.8	3628.5	86.2	-16.0	844.3	-3.6
20	270.00	96.0	2.2	2643	2691	36.3	.8	3533.5	84.2	-14.9	797.8	-3.4
21	283.00	96.9	2.1	2643	2691	36.7	.8	3437.5	82.0	-13.8	752.5	-3.2
22	296.00	97.8	2.0	2643	2691	37.0	.7	3340.6	79.9	-12.7	708.4	-3.0
23	309.00	98.8	1.9	2643	2691	37.4	.7	3242.8	77.7	-11.7	665.6	-2.8
24	322.00	99.6	1.9	2643	2691	37.7	.7	3144.0	76.1	-10.7	624.1	-2.6
25	335.00	100.5	2.2	2643	2691	38.0	.8	3044.4	74.1	-9.7	583.9	-2.5
26	348.00	100.5	2.2	2643	2691	38.0	.8	2944.4	71.9	-8.8	545.0	-2.3
27	361.00	101.4	2.5	2643	2691	38.4	.9	2843.9	69.7	-7.8	507.3	-2.1
28	374.00	101.4	3.0	2643	2691	38.4	1.1	2742.9	66.8	-7.0	471.0	-1.9
29	387.00	101.7	3.6	2643	2691	38.5	1.3	2641.5	63.7	-6.1	436.0	-1.7
30	400.00	102.1	4.2	2643	2691	38.6	1.5	2539.7	60.4	-5.3	402.3	-1.5
31	413.00	102.7	4.8	2643	2691	38.9	1.8	2437.4	56.9	-4.5	370.0	-1.3
32	426.00	103.1	5.4	2643	2691	39.0	2.0	2334.7	53.0	-3.8	339.0	-1.1
33	439.00	103.3	6.0	2643	2691	39.1	2.2	2231.6	49.1	-3.2	309.3	-.9
34	452.00	103.3	6.6	2643	2691	39.1	2.5	2128.3	45.1	-2.6	281.0	-.8
35	465.00	103.9	7.2	2643	2691	39.3	2.7	2024.7	41.1	-2.1	254.0	-.6
36	478.00	104.4	7.8	2643	2691	39.5	2.9	1920.8	36.9	-1.5	228.3	-.5
37	491.00	104.4	8.4	2643	2691	39.5	3.1	1816.5	32.6	-1.1	204.0	-.3
38	504.00	104.7	9.0	2643	2691	39.6	3.4	1711.9	28.1	-.6	181.1	-.2
39	517.00	105.1	9.6	2643	2691	39.7	3.6	1607.0	23.4	-.2	159.5	-.1
40	530.00	105.1	10.2	2643	2691	39.8	3.8	1501.7	18.6	.2	139.3	.1
41	543.00	105.5	10.8	2643	2691	39.9	4.1	1396.2	13.7	.6	120.3	.2
42	556.00	105.5	11.4	2643	2691	39.9	4.3	1290.4	8.7	.9	102.6	.3
43	569.00	105.7	12.0	2643	2691	40.0	4.5	1184.3	3.6	1.1	86.1	.3
44	582.00	105.9	12.6	2643	2691	40.0	4.7	1078.0	-1.5	1.1	72.0	.3
45	595.00	106.0	13.2	2643	2691	40.1	4.9	971.4	-7.0	1.1	58.8	.3
46	608.00	106.2	13.8	2643	2691	40.2	5.1	864.6	-12.5	1.1	46.8	.2
47	621.00	106.6	14.4	2643	2691	40.3	5.3	757.6	-18.1	1.1	36.0	.2
48	634.00	113.6	6.6	2847	2599	39.9	2.5	656.4	-12.5	.9	26.9	.2
49	648.00	112.8	1.0	2847	2403	39.6	.4	542.8	-15.2	.7	18.5	.1
50	662.00	112.9	-2.1	2847	2207	39.6	-1.0	430.0	-16.2	.5	11.7	.1
51	676.00	113.0	-4.1	2847	2007	39.7	-2.1	317.1	-14.0	.3	6.2	.0
PENT	690.00	204.1	-9.9	5693	3733	35.9	-2.7	204.1	-9.9	.1	1.4	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 210 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	73.9	-29.5	5449	5023	13.6	-5.9	4768.1	-113.8	-1.7	1883.1	2.9
MEZZ	22.00	53.9	-15.9	2847	2898	18.9	-5.5	4694.3	-84.3	-3.9	1779.0	3.2
2	36.00	52.6	-13.5	2643	2691	19.9	-5.0	4640.3	-68.4	-5.0	1713.7	3.0
3	49.00	55.1	-12.2	2643	2691	20.8	-4.5	4587.7	-54.9	-5.8	1653.7	2.8
4	62.00	57.5	-10.9	2643	2691	21.7	-4.1	4532.6	-42.7	-6.4	1594.4	2.6
5	75.00	59.9	-9.7	2643	2691	22.7	-3.6	4475.2	-31.8	-6.9	1535.9	2.4
6	88.00	62.4	-8.4	2643	2691	23.6	-3.1	4415.2	-22.1	-7.2	1478.1	2.3
7	101.00	64.8	-7.1	2643	2691	24.5	-2.7	4352.9	-13.7	-7.5	1421.1	2.1
8	114.00	67.2	-5.9	2643	2691	25.4	-2.2	4288.1	-6.7	-7.6	1364.9	2.0
9	127.00	69.1	-5.0	2643	2691	26.1	-1.8	4220.8	-1.7	-7.8	1309.6	1.8
10	140.00	70.7	-4.3	2643	2691	26.7	-1.6	4151.7	4.2	-7.8	1255.2	1.7
11	153.00	72.3	-3.6	2643	2691	27.4	-1.3	4081.0	8.1	-7.8	1201.7	1.6
12	166.00	73.9	-2.8	2643	2691	28.0	-1.1	4008.7	12.1	-7.8	1149.1	1.5
13	179.00	75.5	-2.1	2643	2691	28.6	-.8	3934.8	14.9	-7.7	1097.5	1.4
14	192.00	77.1	-1.4	2643	2691	29.2	-.5	3859.3	17.0	-7.6	1046.8	1.4
15	205.00	78.7	-.7	2643	2691	29.8	-.3	3782.2	18.4	-7.3	997.1	1.4
16	218.00	80.3	.0	2643	2691	30.4	.0	3703.5	19.1	-6.9	948.5	1.4
17	231.00	82.2	.1	2643	2691	31.1	.0	3623.2	19.1	-6.5	900.9	1.4
18	244.00	84.2	.1	2643	2691	31.9	.0	3541.0	19.1	-6.0	854.3	1.4
19	257.00	86.2	.2	2643	2691	32.6	.1	3456.8	18.9	-5.4	808.8	1.4
20	270.00	88.1	.2	2643	2691	33.3	.1	3370.6	18.5	-4.8	764.4	1.4
21	283.00	90.1	.3	2643	2691	34.1	.1	3282.5	18.0	-4.2	721.2	1.4
22	296.00	92.0	.3	2643	2691	34.8	.1	3192.4	17.3	-3.6	679.1	1.4
23	309.00	94.0	.4	2643	2691	35.5	.1	3100.4	16.5	-3.1	638.2	1.4
24	322.00	95.4	.4	2643	2691	36.1	.2	3006.5	15.5	-2.6	598.5	1.4
25	335.00	95.5	.4	2643	2691	36.1	.2	2911.1	14.4	-2.2	560.0	1.3
26	348.00	95.6	.4	2643	2691	36.2	.2	2815.6	13.2	-1.8	522.8	1.3
27	361.00	95.7	.4	2643	2691	36.2	.2	2720.0	12.0	-1.5	486.8	1.3
28	374.00	95.8	.4	2643	2691	36.2	.2	2624.4	10.8	-1.2	452.1	1.2
29	387.00	95.9	.4	2643	2691	36.3	.2	2528.6	9.5	-.9	418.6	1.2
30	400.00	96.0	.4	2643	2691	36.3	.2	2432.6	8.3	-.7	386.3	1.2
31	413.00	96.1	.5	2643	2691	36.4	.2	2336.6	7.1	-.5	355.3	1.2
32	426.00	96.6	.3	2643	2691	36.6	.1	2240.5	5.9	-.4	325.6	1.2
33	439.00	97.4	.1	2643	2691	36.9	.0	2143.9	4.8	-.2	297.1	1.2
34	452.00	98.2	-.1	2643	2691	37.2	-.0	2046.4	3.7	-.2	269.9	1.2
35	465.00	99.0	-.3	2643	2691	37.5	-.1	1948.2	2.6	-.1	243.9	1.2
36	478.00	99.8	-.5	2643	2691	37.8	-.2	1849.2	1.6	-.1	219.2	1.3
37	491.00	100.6	-.7	2643	2691	38.1	-.3	1749.3	.7	-.0	195.8	1.3
38	504.00	101.4	-.9	2643	2691	38.4	-.3	1648.7	-.1	.0	173.7	1.3
39	517.00	102.2	-1.1	2643	2691	38.7	-.4	1547.3	-.9	.0	153.0	1.4
40	530.00	102.2	-.6	2643	2691	38.6	-.2	1445.0	-1.7	.0	133.5	1.4
41	543.00	102.1	.1	2643	2691	38.6	.0	1342.8	-2.4	.0	115.4	1.5
42	556.00	102.0	.7	2643	2691	38.6	.3	1240.7	-2.9	.0	98.6	1.5
43	569.00	101.9	1.4	2643	2691	38.6	.5	1138.7	-3.4	.0	83.1	1.6
44	582.00	101.8	2.0	2643	2691	38.5	.7	1036.8	-3.8	.0	69.0	1.6
45	595.00	101.7	2.6	2643	2691	38.5	1.0	934.9	-4.2	.0	56.2	1.6
46	608.00	101.7	3.3	2643	2691	38.5	1.2	833.2	-4.5	.0	44.7	1.7
47	621.00	101.7	3.7	2643	2691	38.5	1.4	731.5	-4.7	.0	34.5	1.7
48	634.00	110.0	2.9	2847	2599	38.6	1.1	629.9	-4.9	.0	25.7	1.7
49	648.00	110.5	1.9	2847	2403	38.8	.8	519.9	-5.1	.1	17.6	1.6
50	662.00	109.3	.9	2847	2203	38.4	.4	409.4	-5.3	.1	11.1	1.5
51	676.00	107.9	.1	2847	2007	37.9	.0	300.1	-5.4	.1	6.1	1.2
PENT	690.00	192.2	-1.5	5693	3733	33.8	-.4	192.2	-1.5	.0	2.7	.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 220 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	87.2	-34.4	5449	5023	16.0	-6.9	4578.3	4.4	-50.1	1803.8	3.5
MEZZ	22.00	58.5	-17.8	2847	2898	20.6	-6.1	4491.1	38.8	-49.7	1704.0	3.6
2	36.00	55.5	-14.5	2643	2691	21.0	-5.4	4432.6	56.6	-49.0	1641.5	3.6
3	49.00	56.6	-12.4	2643	2691	21.4	-4.6	4377.1	71.0	-48.2	1584.3	3.5
4	62.00	57.7	-10.4	2643	2691	21.8	-3.9	4320.6	83.5	-47.2	1527.8	3.4
5	75.00	58.7	-8.4	2643	2691	22.2	-3.1	4262.9	93.9	-46.0	1472.0	3.3
6	88.00	59.8	-6.4	2643	2691	22.6	-2.4	4204.2	102.3	-44.7	1416.9	3.2
7	101.00	60.9	-4.4	2643	2691	23.0	-1.6	4144.3	108.7	-43.4	1362.7	3.1
8	114.00	62.0	-2.4	2643	2691	23.5	-.9	4083.4	113.1	-41.9	1309.2	3.0
9	127.00	63.5	-1.3	2643	2691	24.0	-.5	4021.4	115.4	-40.4	1256.5	3.0
10	140.00	65.1	-.6	2643	2691	24.6	-.2	3958.0	116.7	-38.9	1204.6	2.9
11	153.00	66.7	.0	2643	2691	25.2	.0	3892.9	117.3	-37.4	1153.6	2.8
12	166.00	68.3	.7	2643	2691	25.8	.3	3826.2	117.2	-35.9	1103.4	2.8
13	179.00	69.9	1.4	2643	2691	26.5	.5	3757.9	116.5	-34.4	1054.1	2.7
14	192.00	71.5	2.0	2643	2691	27.1	.7	3688.0	115.2	-32.9	1005.7	2.6
15	205.00	73.2	2.7	2643	2691	27.7	1.0	3616.4	113.2	-31.4	958.3	2.5
16	218.00	74.8	3.3	2643	2691	28.3	1.2	3543.2	110.5	-29.9	911.7	2.4
17	231.00	76.6	3.0	2643	2691	29.0	1.1	3468.5	107.2	-28.5	866.1	2.3
18	244.00	78.4	2.7	2643	2691	29.7	1.0	3391.9	104.2	-27.1	821.5	2.2
19	257.00	80.2	2.4	2643	2691	30.4	.9	3313.4	101.5	-25.8	778.0	2.1
20	270.00	82.1	2.1	2643	2691	31.0	.8	3233.2	99.0	-24.5	735.4	2.0
21	283.00	83.9	1.8	2643	2691	31.7	.7	3151.2	96.9	-23.2	693.9	1.9
22	296.00	85.7	1.5	2643	2691	32.4	.6	3067.3	95.1	-22.0	653.5	1.9
23	309.00	87.5	1.2	2643	2691	33.1	.5	2981.6	93.6	-20.8	614.2	1.8
24	322.00	89.0	1.1	2643	2691	33.7	.4	2894.1	92.4	-19.5	576.0	1.7
25	335.00	89.9	1.3	2643	2691	34.0	.5	2805.1	91.3	-18.2	538.9	1.6
26	348.00	90.7	1.4	2643	2691	34.3	.5	2715.2	90.1	-17.0	503.1	1.5
27	361.00	91.5	1.6	2643	2691	34.6	.6	2624.5	88.6	-16.0	468.3	1.4
28	374.00	92.4	1.8	2643	2691	34.9	.7	2533.0	87.0	-14.9	434.8	1.3
29	387.00	93.2	2.0	2643	2691	35.3	.8	2440.6	85.2	-13.7	402.5	1.2
30	400.00	94.1	2.2	2643	2691	35.6	.8	2347.4	83.1	-12.7	371.4	1.2
31	413.00	94.9	2.4	2643	2691	35.9	.9	2253.3	80.9	-11.6	341.5	1.2
32	426.00	95.4	2.6	2643	2691	36.1	1.0	2158.4	78.5	-10.6	312.8	1.2
33	439.00	95.7	2.9	2643	2691	36.2	1.1	2063.0	75.9	-9.6	285.4	1.2
34	452.00	96.0	3.2	2643	2691	36.3	1.2	1967.3	73.0	-8.7	259.2	1.2
35	465.00	96.3	3.4	2643	2691	36.4	1.3	1871.3	69.8	-7.7	234.2	1.2
36	478.00	96.6	3.7	2643	2691	36.5	1.4	1775.1	66.4	-6.8	210.5	1.2
37	491.00	96.9	4.0	2643	2691	36.6	1.5	1678.5	62.7	-5.9	188.1	1.3
38	504.00	97.1	4.2	2643	2691	36.8	1.6	1581.7	58.8	-5.1	166.9	1.3
39	517.00	97.4	4.5	2643	2691	36.9	1.7	1484.5	54.5	-4.4	146.9	1.4
40	530.00	97.5	4.5	2643	2691	36.9	1.7	1387.1	50.1	-3.7	128.3	1.4
41	543.00	97.6	4.5	2643	2691	36.9	1.7	1289.5	45.5	-3.1	110.9	1.5
42	556.00	97.7	4.6	2643	2691	37.0	1.7	1191.9	41.0	-2.5	94.7	1.5
43	569.00	97.8	4.6	2643	2691	37.0	1.7	1094.2	36.5	-2.0	79.9	1.5
44	582.00	97.9	4.6	2643	2691	37.0	1.7	996.4	31.9	-1.6	66.3	1.5
45	595.00	98.0	4.6	2643	2691	37.1	1.7	898.5	27.3	-1.2	54.0	1.5
46	608.00	98.1	4.6	2643	2691	37.1	1.7	800.5	22.8	-.9	42.9	1.5
47	621.00	98.0	4.6	2643	2691	37.1	1.7	702.5	18.0	-.6	33.2	1.5
48	634.00	105.0	3.9	2847	2599	36.9	1.5	604.5	13.4	-.4	24.7	1.5
49	648.00	104.4	3.0	2847	2403	36.7	1.3	499.5	9.5	-.3	16.9	1.4
50	662.00	105.2	2.6	2847	2203	37.0	1.2	395.1	6.4	-.1	10.7	1.4
51	676.00	106.3	2.0	2847	2007	37.4	1.0	289.9	3.9	-.1	5.9	1.4
PENT	690.00	183.6	1.9	5693	3733	32.2	.5	183.6	1.9	-.0	2.6	.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	73.0	-35.8	5449	5023	13.4	-7.1	3994.9	-214.1	50.2	1576.9	9.6
MEZZ	22.00	51.1	-19.2	2847	2898	17.9	-6.6	3921.9	-178.3	45.9	1489.8	10.7
2	36.00	48.5	-15.5	2643	2691	18.3	-5.7	3870.8	-159.1	43.6	1435.2	10.5
3	49.00	49.4	-13.2	2643	2691	18.7	-4.9	3822.3	-143.6	41.6	1385.2	10.4
4	62.00	50.4	-10.9	2643	2691	19.1	-4.1	3772.9	-130.4	39.8	1335.9	10.3
5	75.00	51.4	-8.7	2643	2691	19.4	-3.2	3722.5	-119.5	38.2	1287.1	10.1
6	88.00	52.4	-6.4	2643	2691	19.8	-2.4	3671.1	-110.8	36.7	1239.1	10.0
7	101.00	53.3	-4.1	2643	2691	20.2	-1.5	3618.7	-104.4	35.3	1191.7	9.8
8	114.00	54.3	-1.9	2643	2691	20.6	-.7	3565.4	-100.3	34.0	1145.0	9.6
9	127.00	55.7	-.8	2643	2691	21.1	-.3	3511.1	-98.4	32.7	1099.0	9.5
10	140.00	57.3	-.2	2643	2691	21.7	-.1	3455.7	-97.7	31.4	1053.7	9.5
11	153.00	58.9	.4	2643	2691	22.3	.1	3398.0	-97.5	30.1	1009.2	9.5
12	166.00	60.5	.9	2643	2691	22.9	.3	3339.1	-97.8	28.9	965.4	8.8
13	179.00	62.1	1.5	2643	2691	23.5	.5	3278.6	-98.5	27.6	922.4	8.8
14	192.00	63.7	2.0	2643	2691	24.1	.8	3216.5	-100.2	26.3	880.1	8.8
15	205.00	65.3	2.6	2643	2691	24.7	1.0	3152.9	-102.8	25.0	838.7	8.8
16	218.00	66.9	3.1	2643	2691	25.3	1.2	3087.6	-104.4	23.8	798.2	8.8
17	231.00	68.3	2.4	2643	2691	25.8	.9	3020.7	-108.0	22.8	758.5	7.8
18	244.00	69.7	1.6	2643	2691	26.4	.6	2952.4	-110.4	20.8	719.7	7.6
19	257.00	71.2	.9	2643	2691	26.9	.3	2882.7	-112.0	19.4	681.7	7.6
20	270.00	72.6	.1	2643	2691	27.5	.0	2811.5	-112.9	17.9	644.7	6.6
21	283.00	74.1	-.6	2643	2691	28.0	-.2	2738.9	-113.0	16.4	608.5	6.6
22	296.00	75.5	-1.4	2643	2691	28.6	-.5	2664.8	-112.4	15.0	573.4	6.5
23	309.00	76.9	-2.2	2643	2691	29.1	-.8	2589.3	-111.0	13.6	539.2	5.4
24	322.00	78.0	-2.8	2643	2691	29.5	-1.1	2512.4	-108.8	12.4	506.2	4.4
25	335.00	78.2	-3.3	2643	2691	29.6	-1.2	2434.4	-106.0	11.2	474.0	4.4
26	348.00	78.4	-3.7	2643	2691	29.7	-1.4	2356.2	-102.7	10.0	442.6	4.4
27	361.00	78.6	-4.2	2643	2691	29.7	-1.6	2277.8	-99.0	8.8	412.0	4.4
28	374.00	78.8	-4.7	2643	2691	29.8	-1.7	2199.2	-94.7	7.6	382.3	4.4
29	387.00	79.0	-5.1	2643	2691	29.9	-1.9	2120.4	-90.1	6.4	353.5	4.3
30	400.00	79.2	-5.6	2643	2691	30.0	-2.1	2041.4	-85.0	5.4	325.8	3.3
31	413.00	79.4	-6.0	2643	2691	30.0	-2.2	1962.2	-79.4	4.4	299.2	3.2
32	426.00	79.8	-6.4	2643	2691	30.2	-2.4	1882.8	-73.4	3.4	273.7	2.2
33	439.00	80.3	-6.7	2643	2691	30.4	-2.5	1803.0	-67.0	2.5	249.3	1.1
34	452.00	80.7	-6.9	2643	2691	30.5	-2.6	1722.7	-60.3	1.6	226.0	1.1
35	465.00	81.2	-7.2	2643	2691	30.7	-2.7	1642.0	-53.3	.8	203.8	1.1
36	478.00	81.7	-7.5	2643	2691	30.9	-2.8	1560.7	-46.1	.1	182.8	.0
37	491.00	82.2	-7.8	2643	2691	31.1	-2.9	1479.0	-38.6	-.5	163.0	.0
38	504.00	82.7	-8.1	2643	2691	31.3	-3.0	1396.8	-30.8	-1.1	144.5	.0
39	517.00	83.2	-8.3	2643	2691	31.5	-3.1	1314.1	-22.8	-1.6	127.4	.0
40	530.00	83.6	-7.7	2643	2691	31.6	-2.9	1230.9	-14.7	-2.0	111.5	.0
41	543.00	84.1	-7.0	2643	2691	31.8	-2.6	1147.3	-6.7	-2.3	96.9	.0
42	556.00	84.6	-6.2	2643	2691	32.0	-2.3	1063.2	.2	-2.5	83.5	.0
43	569.00	85.0	-5.5	2643	2691	32.2	-2.0	978.6	6.4	-2.6	72.4	-.1
44	582.00	85.5	-4.7	2643	2691	32.3	-1.8	893.6	11.9	-2.7	62.6	-.1
45	595.00	85.9	-4.0	2643	2691	32.5	-1.5	808.1	16.6	-2.8	54.2	-.1
46	608.00	86.4	-3.2	2643	2691	32.7	-1.2	722.2	20.6	-2.9	47.1	-.1
47	621.00	86.8	-2.5	2643	2691	32.8	-.9	635.8	23.8	-2.9	41.3	-.2
48	634.00	93.9	1.9	2847	2599	33.0	.6	549.0	26.3	-3.0	36.6	-.2
49	648.00	94.3	2.9	2847	2403	33.1	.8	455.1	24.2	-3.0	31.8	-.2
50	662.00	94.9	5.5	2847	2203	33.3	2.5	360.7	22.8	-3.1	27.4	-.1
51	676.00	95.4	6.8	2847	2007	33.5	3.4	265.9	17.3	-3.1	23.1	-.1
PENT	690.00	170.4	10.6	5693	3733	29.9	2.8	170.4	10.6	-3.1	19.2	-.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	69.4	-34.9	5449	5023	12.7	-6.9	3729.0	-466.5	134.0	1436.8	11.0
MEZZ	22.00	57.0	-20.2	2847	2898	20.0	-7.0	3659.6	-431.6	124.2	1355.5	12.8
2	36.00	53.5	-17.0	2643	2691	20.2	-6.3	3602.6	-411.4	118.3	1304.7	12.7
3	49.00	54.1	-15.3	2643	2691	20.4	-5.7	3549.1	-394.5	113.0	1258.2	12.7
4	62.00	54.6	-13.6	2643	2691	20.7	-5.0	3495.1	-379.2	108.0	1212.4	12.7
5	75.00	55.1	-11.9	2643	2691	20.9	-4.4	3440.5	-365.7	103.2	1167.3	12.6
6	88.00	55.7	-10.2	2643	2691	21.1	-3.8	3385.3	-353.8	98.5	1123.0	12.5
7	101.00	56.2	-8.5	2643	2691	21.3	-3.1	3329.6	-343.7	93.9	1079.3	12.4
8	114.00	56.8	-6.7	2643	2691	21.5	-2.5	3273.4	-335.2	89.5	1036.4	12.3
9	127.00	57.5	-5.9	2643	2691	21.8	-2.2	3216.6	-328.5	85.2	994.2	12.2
10	140.00	58.3	-5.5	2643	2691	22.1	-2.0	3159.1	-322.6	81.0	952.8	12.0
11	153.00	59.1	-5.1	2643	2691	22.4	-1.9	3100.8	-317.1	76.8	912.1	11.9
12	166.00	59.9	-4.6	2643	2691	22.7	-1.7	3041.7	-312.0	72.7	872.0	11.6
13	179.00	60.7	-4.2	2643	2691	22.9	-1.6	2981.9	-307.3	68.7	833.0	11.4
14	192.00	61.5	-3.8	2643	2691	23.2	-1.4	2921.2	-303.1	64.7	794.6	11.1
15	205.00	62.2	-3.4	2643	2691	23.5	-1.3	2859.7	-299.3	60.8	757.1	11.1
16	218.00	63.0	-3.0	2643	2691	23.8	-1.1	2797.5	-295.9	57.0	720.3	10.8
17	231.00	64.1	-3.9	2643	2691	24.3	-1.5	2734.5	-293.0	53.1	684.3	10.4
18	244.00	65.2	-4.9	2643	2691	24.7	-1.8	2670.3	-289.1	49.3	649.2	10.1
19	257.00	66.3	-5.9	2643	2691	25.1	-2.2	2605.1	-284.2	45.6	614.9	9.7
20	270.00	67.4	-6.9	2643	2691	25.5	-2.6	2538.8	-278.3	42.0	581.5	9.3
21	283.00	68.5	-7.9	2643	2691	25.9	-2.9	2471.4	-271.4	38.4	548.9	8.8
22	296.00	69.6	-8.8	2643	2691	26.3	-3.3	2402.8	-263.5	34.9	517.2	8.4
23	309.00	70.7	-9.8	2643	2691	26.8	-3.7	2333.2	-254.7	31.5	486.4	7.9
24	322.00	71.5	-10.6	2643	2691	27.0	-3.9	2262.5	-244.9	28.2	456.6	7.5
25	335.00	71.5	-10.9	2643	2691	27.0	-4.1	2191.0	-234.4	25.0	427.6	7.0
26	348.00	71.5	-11.2	2643	2691	27.0	-4.2	2119.6	-223.3	22.0	399.6	6.5
27	361.00	71.5	-11.5	2643	2691	27.0	-4.3	2048.1	-212.1	19.1	372.4	6.0
28	374.00	71.5	-11.9	2643	2691	27.0	-4.4	1976.6	-200.7	16.2	346.1	5.4
29	387.00	71.5	-12.2	2643	2691	27.0	-4.5	1905.1	-188.5	14.2	321.1	4.9
30	400.00	71.5	-12.5	2643	2691	27.0	-4.6	1833.6	-176.5	11.8	296.4	4.3
31	413.00	71.5	-12.8	2643	2691	27.0	-4.8	1762.2	-164.3	9.6	273.1	3.8
32	426.00	71.6	-13.0	2643	2691	27.1	-4.8	1690.7	-151.3	7.5	251.0	3.2
33	439.00	71.9	-13.2	2643	2691	27.2	-4.9	1619.0	-138.2	5.7	229.9	2.6
34	452.00	72.2	-13.4	2643	2691	27.3	-5.0	1547.1	-125.0	3.9	208.9	2.0
35	465.00	72.4	-13.6	2643	2691	27.4	-5.0	1475.0	-111.7	2.4	189.3	1.5
36	478.00	72.7	-13.7	2643	2691	27.5	-5.1	1402.6	-98.1	1.0	170.6	.9
37	491.00	72.9	-13.9	2643	2691	27.6	-5.2	1329.9	-84.3	-.1	152.8	.4
38	504.00	73.2	-14.1	2643	2691	27.7	-5.2	1257.0	-70.4	-1.2	136.0	-.1
39	517.00	73.5	-14.3	2643	2691	27.8	-5.3	1183.8	-56.3	-2.0	120.1	-.6
40	530.00	74.0	-13.5	2643	2691	28.0	-5.0	1110.3	-42.0	-2.6	105.2	-1.1
41	543.00	74.5	-12.6	2643	2691	28.2	-4.7	1036.4	-28.5	-3.1	91.3	-1.5
42	556.00	75.1	-11.8	2643	2691	28.4	-4.4	961.8	-15.9	-3.4	78.3	-1.9
43	569.00	75.6	-10.9	2643	2691	28.6	-4.0	886.8	-4.1	-3.5	66.3	-2.4
44	582.00	76.2	-10.0	2643	2691	28.8	-3.7	811.1	6.8	-3.3	55.2	-2.8
45	595.00	76.7	-9.1	2643	2691	29.0	-3.4	735.0	16.8	-3.3	45.2	-3.1
46	608.00	77.3	-8.3	2643	2691	29.2	-3.1	658.3	26.0	-3.0	36.1	-3.5
47	621.00	77.7	-7.1	2643	2691	29.4	-2.6	581.0	34.2	-2.7	28.1	-3.8
48	634.00	83.7	.6	2847	2599	29.4	.2	503.3	41.2	-2.2	21.0	-4.1
49	648.00	83.7	3.4	2847	2403	29.4	1.4	419.6	40.3	-1.6	14.5	-3.6
50	662.00	85.7	8.7	2847	2203	30.1	3.9	335.9	37.3	-1.0	9.3	-2.9
51	676.00	88.1	10.6	2847	2007	31.0	5.3	250.2	28.6	-.6	5.2	-2.0
PENT	690.00	162.1	18.0	5693	3733	28.5	4.8	162.1	18.0	-.3	2.3	-1.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 250 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	62.0	-29.5	5449	5023	11.4	-5.9	2907.8	-640.6	214.4	1161.0	13.4
MEZZ	22.00	38.5	-14.3	2847	2898	13.5	-4.9	2845.8	-611.1	200.6	1097.7	14.1
2	36.00	36.3	-12.4	2643	2691	13.7	-4.6	2807.4	-596.8	192.1	1058.1	14.1
3	49.00	36.8	-11.6	2643	2691	13.9	-4.3	2771.1	-584.4	184.5	1021.9	14.1
4	62.00	37.4	-10.8	2643	2691	14.1	-4.0	2734.3	-572.7	176.9	986.1	14.0
5	75.00	37.9	-10.1	2643	2691	14.3	-3.7	2696.9	-561.9	169.6	950.8	13.9
6	88.00	38.5	-9.3	2643	2691	14.6	-3.4	2659.0	-551.8	162.3	916.0	13.8
7	101.00	39.0	-8.5	2643	2691	14.8	-3.1	2620.5	-542.6	155.2	881.6	13.7
8	114.00	39.6	-7.7	2643	2691	15.0	-2.9	2581.5	-534.1	148.2	847.8	13.5
9	127.00	40.3	-7.4	2643	2691	15.2	-2.8	2541.9	-526.4	141.3	814.5	13.3
10	140.00	41.0	-7.5	2643	2691	15.5	-2.8	2501.7	-519.0	134.5	781.7	13.1
11	153.00	41.8	-7.5	2643	2691	15.8	-2.8	2460.7	-511.5	127.8	749.5	12.8
12	166.00	42.6	-7.6	2643	2691	16.1	-2.8	2418.9	-503.9	121.2	717.8	12.6
13	179.00	43.3	-7.6	2643	2691	16.4	-2.8	2376.3	-496.4	114.7	686.6	12.3
14	192.00	44.1	-7.7	2643	2691	16.7	-2.8	2333.0	-488.7	108.3	656.0	12.0
15	205.00	44.9	-7.7	2643	2691	17.0	-2.9	2288.9	-481.1	102.0	626.0	11.8
16	218.00	45.6	-7.8	2643	2691	17.3	-2.9	2244.0	-473.4	95.8	596.5	11.4
17	231.00	46.8	-8.9	2643	2691	17.7	-3.3	2198.4	-465.6	89.7	567.6	11.1
18	244.00	48.0	-10.0	2643	2691	18.2	-3.7	2151.6	-456.7	83.7	539.3	10.8
19	257.00	49.2	-11.2	2643	2691	18.6	-4.2	2103.6	-446.7	77.8	511.7	10.3
20	270.00	50.3	-12.3	2643	2691	19.0	-4.6	2054.4	-435.5	72.1	484.7	9.9
21	283.00	51.5	-13.5	2643	2691	19.5	-5.0	2004.1	-423.1	66.6	458.3	9.4
22	296.00	52.7	-14.6	2643	2691	19.9	-5.4	1952.6	-409.7	61.1	432.6	8.8
23	309.00	53.9	-15.8	2643	2691	20.4	-5.9	1899.9	-395.0	55.8	407.5	8.2
24	322.00	54.7	-16.6	2643	2691	20.7	-6.2	1846.0	-379.2	50.6	383.2	7.6
25	335.00	54.6	-16.6	2643	2691	20.6	-6.2	1791.4	-362.6	46.0	359.5	7.0
26	348.00	54.5	-16.6	2643	2691	20.6	-6.2	1736.8	-346.0	41.4	336.4	6.5
27	361.00	54.4	-16.6	2643	2691	20.6	-6.2	1682.3	-329.4	37.0	314.0	5.9
28	374.00	54.3	-16.6	2643	2691	20.5	-6.2	1627.9	-312.7	32.9	292.2	5.3
29	387.00	54.2	-16.6	2643	2691	20.5	-6.2	1573.6	-296.1	28.9	271.0	4.9
30	400.00	54.1	-16.6	2643	2691	20.5	-6.2	1519.4	-279.5	25.2	251.0	4.3
31	413.00	54.0	-16.7	2643	2691	20.4	-6.2	1465.3	-262.8	21.6	232.5	3.8
32	426.00	54.5	-17.0	2643	2691	20.6	-6.3	1411.3	-246.2	18.3	213.8	3.2
33	439.00	55.4	-17.4	2643	2691	20.9	-6.5	1356.7	-229.2	15.2	195.8	2.7
34	452.00	56.2	-17.9	2643	2691	21.3	-6.7	1301.4	-211.8	12.4	178.6	2.1
35	465.00	57.1	-18.4	2643	2691	21.6	-6.8	1245.1	-193.8	9.7	162.0	1.6
36	478.00	58.0	-18.9	2643	2691	21.9	-7.0	1188.0	-175.4	7.3	146.2	1.0
37	491.00	58.8	-19.4	2643	2691	22.3	-7.2	1130.1	-156.5	5.3	131.1	.4
38	504.00	59.7	-19.9	2643	2691	22.6	-7.4	1071.2	-137.1	3.6	116.8	-.1
39	517.00	60.6	-20.4	2643	2691	22.9	-7.6	1011.5	-117.2	1.9	103.3	-.5
40	530.00	61.5	-19.7	2643	2691	23.3	-7.3	951.0	-96.8	.6	90.6	-1.0
41	543.00	62.5	-19.0	2643	2691	23.6	-7.0	889.4	-77.0	-.7	78.4	-1.5
42	556.00	63.4	-18.2	2643	2691	24.0	-6.8	827.0	-58.1	-1.8	67.1	-2.0
43	569.00	64.4	-17.4	2643	2691	24.4	-6.5	763.5	-39.9	-2.8	57.1	-2.6
44	582.00	65.4	-16.6	2643	2691	24.7	-6.2	699.1	-22.5	-3.8	47.6	-3.1
45	595.00	66.3	-15.8	2643	2691	25.1	-5.9	633.8	-5.9	-4.8	38.9	-3.6
46	608.00	67.3	-15.1	2643	2691	25.4	-5.6	567.5	10.0	-5.8	31.1	-4.1
47	621.00	67.8	-13.9	2643	2691	25.7	-5.2	500.2	25.0	-6.8	24.1	-4.6
48	634.00	72.1	-3.4	2847	2599	25.3	-1.3	432.4	38.9	-7.8	18.1	-5.1
49	648.00	71.1	1.0	2847	2403	25.0	.4	360.3	42.3	-8.8	12.8	-5.4
50	662.00	73.1	8.6	2847	2203	25.7	3.9	289.1	41.4	-9.8	8.0	-5.4
51	676.00	75.7	11.9	2847	2007	26.6	5.9	216.0	32.8	-10.7	4.5	-5.3
PENT	690.00	140.3	20.9	5693	3733	24.6	5.6	140.3	20.9	-11.3	2.0	-5.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 260 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	30.1	-4.4	5449	5023	5.5	-.9	1487.6	-246.1	93.3	663.6	13.9
MEZZ	22.00	14.4	-.7	2847	2898	5.1	-.2	1457.5	-241.7	88.6	631.2	13.9
2	36.00	13.3	-.6	2643	2691	5.0	-.2	1443.1	-241.0	84.6	610.9	13.9
3	49.00	13.3	-.6	2643	2691	5.0	-.2	1429.7	-240.4	81.5	592.3	13.9
4	62.00	13.3	-.6	2643	2691	5.0	-.2	1416.4	-239.8	78.3	573.8	13.8
5	75.00	13.2	-.6	2643	2691	5.0	-.2	1403.2	-239.2	75.2	555.4	13.7
6	88.00	13.2	-.6	2643	2691	5.0	-.2	1389.9	-238.6	72.1	537.3	13.5
7	101.00	13.2	-.5	2643	2691	5.0	-.2	1376.7	-238.0	69.0	519.3	13.3
8	114.00	13.1	-.5	2643	2691	5.0	-.2	1363.6	-237.5	65.9	501.5	13.1
9	127.00	13.5	-.8	2643	2691	5.1	-.3	1350.4	-236.9	62.8	483.8	12.8
10	140.00	14.2	-1.3	2643	2691	5.4	-.5	1336.9	-236.1	59.8	466.4	12.5
11	153.00	14.8	-1.8	2643	2691	5.6	-.7	1322.7	-234.8	56.7	449.1	12.1
12	166.00	15.4	-2.2	2643	2691	5.8	-.8	1307.9	-233.0	53.7	432.0	11.6
13	179.00	16.1	-2.7	2643	2691	6.1	-1.0	1292.4	-230.8	50.6	415.1	11.0
14	192.00	16.7	-3.2	2643	2691	6.3	-1.2	1276.4	-228.1	47.7	398.4	11.3
15	205.00	17.3	-3.6	2643	2691	6.6	-1.3	1259.6	-224.9	44.7	381.9	11.0
16	218.00	18.0	-4.1	2643	2691	6.8	-1.5	1242.3	-221.3	41.8	365.6	10.7
17	231.00	18.8	-4.3	2643	2691	7.1	-1.6	1224.3	-217.2	39.0	349.6	10.3
18	244.00	19.6	-4.5	2643	2691	7.4	-1.7	1205.5	-212.9	36.2	333.8	10.0
19	257.00	20.4	-4.7	2643	2691	7.7	-1.7	1185.9	-208.4	33.4	318.3	9.6
20	270.00	21.2	-4.9	2643	2691	8.0	-1.8	1165.5	-203.7	30.8	303.0	9.2
21	283.00	22.0	-5.1	2643	2691	8.3	-1.9	1144.3	-198.8	28.1	288.0	8.8
22	296.00	22.8	-5.3	2643	2691	8.6	-2.0	1122.2	-193.7	25.6	273.2	8.4
23	309.00	23.7	-5.5	2643	2691	9.0	-2.0	1099.4	-188.4	23.1	258.7	8.0
24	322.00	24.3	-5.8	2643	2691	9.2	-2.2	1075.7	-182.9	20.7	244.7	7.5
25	335.00	24.6	-6.3	2643	2691	9.3	-2.3	1051.4	-177.1	18.4	230.8	7.0
26	348.00	24.8	-6.8	2643	2691	9.4	-2.5	1026.9	-170.8	16.1	217.3	6.6
27	361.00	25.1	-7.2	2643	2691	9.5	-2.7	1002.0	-164.0	13.9	204.1	6.1
28	374.00	25.3	-7.7	2643	2691	9.6	-2.9	977.0	-156.8	11.8	191.3	5.6
29	387.00	25.6	-8.2	2643	2691	9.7	-3.0	951.6	-149.1	9.8	178.7	5.1
30	400.00	25.9	-8.7	2643	2691	9.8	-3.2	926.0	-140.9	8.0	166.5	4.5
31	413.00	26.1	-9.2	2643	2691	9.9	-3.4	900.2	-132.2	6.2	154.7	3.9
32	426.00	26.7	-9.6	2643	2691	10.1	-3.6	874.0	-123.0	4.5	143.1	3.3
33	439.00	27.6	-10.1	2643	2691	10.5	-3.8	847.3	-113.4	3.0	131.9	2.7
34	452.00	28.5	-10.6	2643	2691	10.8	-3.9	819.7	-103.3	1.6	121.1	2.2
35	465.00	29.4	-11.0	2643	2691	11.1	-4.1	791.1	-92.8	.3	110.6	1.4
36	478.00	30.3	-11.5	2643	2691	11.5	-4.3	761.8	-81.7	-.8	100.6	.8
37	491.00	31.2	-11.9	2643	2691	11.8	-4.4	731.5	-70.3	-1.8	90.8	.2
38	504.00	32.0	-12.4	2643	2691	12.1	-4.6	700.3	-58.3	-2.7	81.5	-.4
39	517.00	32.9	-12.9	2643	2691	12.5	-4.8	668.3	-45.9	-3.3	72.6	-1.1
40	530.00	34.3	-12.4	2643	2691	13.0	-4.6	635.4	-33.0	-3.8	64.2	-1.7
41	543.00	35.8	-11.8	2643	2691	13.5	-4.4	601.1	-20.7	-4.2	56.1	-2.3
42	556.00	37.2	-11.2	2643	2691	14.1	-4.1	565.3	-8.9	-4.4	48.5	-2.9
43	569.00	38.7	-10.6	2643	2691	14.6	-3.9	528.1	2.3	-4.4	41.4	-3.4
44	582.00	40.1	-10.0	2643	2691	15.2	-3.7	489.4	12.8	-4.3	34.8	-3.9
45	595.00	41.6	-9.4	2643	2691	15.7	-3.5	449.2	22.8	-4.1	28.7	-4.4
46	608.00	43.0	-8.8	2643	2691	16.3	-3.3	407.7	32.2	-3.7	23.2	-4.9
47	621.00	44.5	-8.1	2643	2691	16.8	-3.0	364.6	40.9	-3.3	18.1	-5.3
48	634.00	49.3	-.0	2847	2599	17.3	.0	320.2	49.0	-2.7	13.7	-5.7
49	648.00	50.8	2.9	2847	2403	17.8	1.2	270.9	49.0	-2.0	9.6	-5.1
50	662.00	54.4	9.8	2847	2203	19.1	4.4	220.1	46.1	-1.3	6.1	-4.1
51	676.00	58.4	12.6	2847	2007	20.5	6.3	165.7	36.3	-.8	3.4	-2.9
PENT	690.00	107.3	23.7	5693	3733	18.8	6.4	107.3	23.7	-.3	1.5	-1.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 270 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	7.2	3.3	5449	5023	1.3	.7	499.0	-86.1	48.6	258.3	1.4
MEZZ	22.00	2.9	1.0	2847	2898	1.0	.4	491.8	-89.4	46.6	247.4	1.3
2	36.00	2.8	.7	2643	2691	1.1	.2	488.9	-90.5	45.4	240.5	1.4
3	49.00	3.0	.4	2643	2691	1.1	.1	486.1	-91.1	44.2	234.2	1.4
4	62.00	3.1	.1	2643	2691	1.2	.0	483.1	-91.5	43.0	227.9	1.4
5	75.00	3.3	-.2	2643	2691	1.2	-.1	480.0	-91.5	41.8	221.7	1.4
6	88.00	3.4	-.5	2643	2691	1.3	-.2	476.8	-91.3	40.6	215.4	1.3
7	101.00	3.6	-.8	2643	2691	1.4	-.3	473.3	-90.8	39.4	209.3	1.2
8	114.00	3.7	-1.1	2643	2691	1.4	-.4	469.8	-90.0	38.3	203.1	1.1
9	127.00	3.7	-1.1	2643	2691	1.4	-.4	466.0	-88.8	37.1	197.0	1.0
10	140.00	3.6	-1.0	2643	2691	1.4	-.4	462.3	-87.7	36.0	191.0	.8
11	153.00	3.5	-.9	2643	2691	1.3	-.3	458.7	-86.7	34.8	185.0	.7
12	166.00	3.4	-.8	2643	2691	1.3	-.3	455.2	-85.7	33.7	179.1	.6
13	179.00	3.3	-.7	2643	2691	1.3	-.3	451.8	-84.9	32.6	173.2	.5
14	192.00	3.2	-.6	2643	2691	1.2	-.2	448.5	-84.2	31.5	167.3	.4
15	205.00	3.1	-.5	2643	2691	1.2	-.2	445.3	-83.6	30.4	161.5	.3
16	218.00	3.0	-.4	2643	2691	1.1	-.1	442.2	-83.1	29.3	155.8	.1
17	231.00	3.3	-.4	2643	2691	1.2	-.2	439.2	-82.7	28.2	150.0	.1
18	244.00	3.6	-.5	2643	2691	1.3	-.2	435.9	-82.2	27.1	144.3	-.1
19	257.00	3.9	-.5	2643	2691	1.5	-.2	432.4	-81.8	26.1	138.7	-.1
20	270.00	4.1	-.5	2643	2691	1.6	-.2	428.5	-81.3	25.1	133.1	-.2
21	283.00	4.4	-.5	2643	2691	1.7	-.2	424.4	-80.8	24.0	127.6	-.3
22	296.00	4.7	-.6	2643	2691	1.8	-.2	420.0	-80.2	23.0	122.1	-.4
23	309.00	5.0	-.6	2643	2691	1.9	-.2	415.3	-79.6	21.9	116.6	-.5
24	322.00	5.1	-.6	2643	2691	1.9	-.2	410.3	-79.0	20.9	111.1	-.7
25	335.00	5.0	-.4	2643	2691	1.9	-.1	405.1	-78.4	19.9	106.7	-1.0
26	348.00	4.9	-.1	2643	2691	1.8	.0	400.1	-77.8	18.8	100.7	-1.2
27	361.00	4.7	.1	2643	2691	1.8	.0	395.3	-77.9	17.8	95.6	-1.3
28	374.00	4.6	.3	2643	2691	1.7	.1	390.5	-78.0	16.8	90.5	-1.5
29	387.00	4.4	.5	2643	2691	1.7	.2	386.0	-78.3	15.8	85.4	-1.7
30	400.00	4.3	.7	2643	2691	1.6	.3	381.6	-78.8	14.8	80.4	-1.9
31	413.00	4.1	.9	2643	2691	1.6	.3	377.3	-79.5	13.7	75.5	-2.1
32	426.00	4.6	.6	2643	2691	1.8	.2	373.1	-80.4	12.7	70.6	-2.3
33	439.00	5.6	.1	2643	2691	2.1	.0	368.5	-81.0	11.7	65.8	-2.4
34	452.00	6.5	-.5	2643	2691	2.5	-.2	362.9	-81.1	10.6	61.0	-2.6
35	465.00	7.5	-1.0	2643	2691	2.8	-.4	356.4	-80.6	9.6	56.4	-2.8
36	478.00	8.4	-1.6	2643	2691	3.2	-.6	348.9	-79.6	8.7	51.8	-2.9
37	491.00	9.4	-2.2	2643	2691	3.6	-.8	340.4	-78.0	7.8	47.3	-3.0
38	504.00	10.3	-2.7	2643	2691	3.9	-1.0	331.0	-75.8	6.9	42.9	-3.1
39	517.00	11.3	-3.3	2643	2691	4.3	-1.2	320.7	-73.1	6.0	38.7	-3.2
40	530.00	12.2	-4.2	2643	2691	4.6	-1.6	309.4	-69.8	5.2	34.7	-3.3
41	543.00	13.1	-5.1	2643	2691	5.0	-1.9	297.2	-65.6	4.4	30.9	-3.3
42	556.00	14.0	-6.0	2643	2691	5.3	-2.2	284.1	-60.5	3.7	27.3	-3.3
43	569.00	15.0	-7.0	2643	2691	5.7	-2.6	270.0	-54.5	3.1	23.9	-3.3
44	582.00	15.9	-7.9	2643	2691	6.0	-2.9	255.0	-47.5	2.5	20.7	-3.3
45	595.00	16.8	-8.8	2643	2691	6.4	-3.3	239.2	-39.6	2.0	17.7	-3.3
46	608.00	17.7	-9.8	2643	2691	6.7	-3.6	222.3	-30.8	1.5	14.9	-3.3
47	621.00	19.0	-10.6	2643	2691	7.2	-4.0	204.6	-21.0	1.1	12.3	-3.3
48	634.00	23.6	-7.5	2847	2599	8.3	-2.9	185.6	-10.4	.8	9.9	-3.3
49	648.00	26.7	-5.7	2847	2403	9.4	-2.4	162.0	-2.9	.5	7.8	-3.2
50	662.00	31.3	-2.0	2847	2203	11.0	-.9	135.3	2.8	.3	5.8	-3.2
51	676.00	36.1	.6	2847	2007	12.7	.3	104.0	4.8	.1	3.2	-3.2
PENT	690.00	67.9	4.3	5693	3733	11.9	1.1	67.9	4.3	-.1	1.0	-1.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	2.3	-1.3	5449	5023	.4	-.3	155.9	-267.3	154.8	71.8	-2.7
MEZZ	22.00	1.9	.3	2847	2898	.7	-.1	153.6	-266.0	149.0	68.4	-2.4
2	36.00	2.3	-.1	2643	2691	.9	-.0	151.7	-266.3	145.2	66.3	-2.4
3	49.00	2.8	-.4	2643	2691	1.1	-.2	149.4	-266.2	141.8	64.3	-2.4
4	62.00	3.3	-.8	2643	2691	1.2	-.3	146.6	-265.8	138.3	62.4	-2.4
5	75.00	3.7	-1.2	2643	2691	1.4	-.4	143.3	-265.0	134.9	60.5	-2.4
6	88.00	4.2	-1.5	2643	2691	1.6	-.6	139.6	-263.9	131.4	58.7	-2.5
7	101.00	4.7	-1.9	2643	2691	1.8	-.7	135.4	-262.3	128.0	56.9	-2.5
8	114.00	5.2	-2.3	2643	2691	2.0	-.8	130.7	-260.4	124.6	55.2	-2.6
9	127.00	5.0	-2.1	2643	2691	1.9	-.8	125.6	-258.2	121.2	53.5	-2.7
10	140.00	4.4	-1.8	2643	2691	1.7	-.7	120.6	-256.1	117.9	51.9	-2.8
11	153.00	3.9	-1.4	2643	2691	1.5	-.5	116.2	-254.3	114.6	50.4	-2.9
12	166.00	3.3	-1.0	2643	2691	1.3	-.4	112.3	-252.9	111.3	48.9	-3.0
13	179.00	2.8	-.7	2643	2691	1.1	-.2	109.0	-251.9	108.0	47.4	-3.1
14	192.00	2.3	-.3	2643	2691	.9	-.1	106.2	-251.2	104.7	46.0	-3.1
15	205.00	1.7	.1	2643	2691	.7	.0	103.9	-250.9	101.5	44.7	-3.1
16	218.00	1.2	.4	2643	2691	.5	.2	102.2	-251.0	98.2	43.3	-3.1
17	231.00	1.2	.4	2643	2691	.5	.1	101.0	-251.4	94.9	42.0	-3.1
18	244.00	1.2	.3	2643	2691	.5	.1	99.8	-251.8	91.7	40.7	-3.1
19	257.00	1.3	.2	2643	2691	.5	.1	98.5	-252.1	88.4	39.4	-3.0
20	270.00	1.3	.2	2643	2691	.5	.1	97.2	-252.3	85.1	38.2	-3.0
21	283.00	1.3	.1	2643	2691	.5	.0	95.9	-252.5	81.8	36.9	-3.0
22	296.00	1.4	.0	2643	2691	.5	.0	94.6	-252.6	78.5	35.7	-3.0
23	309.00	1.4	-.0	2643	2691	.5	-.0	93.2	-252.6	75.3	34.4	-2.9
24	322.00	1.2	-.1	2643	2691	.5	-.0	91.8	-252.6	72.0	33.2	-2.9
25	335.00	.7	-.0	2643	2691	.2	-.0	90.6	-252.5	68.7	32.0	-2.9
26	348.00	.1	.0	2643	2691	.0	.0	89.9	-252.5	65.4	30.9	-2.9
27	361.00	-.5	.1	2643	2691	-.2	.0	89.8	-252.5	62.1	29.8	-2.9
28	374.00	-1.1	.1	2643	2691	-.4	.0	90.4	-252.6	58.8	28.7	-3.0
29	387.00	-1.7	.2	2643	2691	-.7	.1	91.5	-252.7	55.6	27.4	-3.0
30	400.00	-2.3	.2	2643	2691	-.9	.1	93.2	-252.8	52.3	26.2	-3.0
31	413.00	-2.9	.3	2643	2691	-1.1	.1	95.6	-253.1	49.0	24.9	-3.0
32	426.00	-2.8	-.4	2643	2691	-1.0	-.1	98.5	-253.3	45.7	23.7	-3.0
33	439.00	-2.1	-1.5	2643	2691	-.8	-.5	101.2	-252.9	42.4	22.4	-3.0
34	452.00	-1.5	-2.6	2643	2691	-.6	-1.0	103.3	-251.5	39.1	21.0	-3.0
35	465.00	-.8	-3.7	2643	2691	-.3	-1.8	104.8	-248.9	35.9	19.7	-3.0
36	478.00	-.2	-4.8	2643	2691	-.1	-2.2	105.6	-245.2	32.7	18.3	-3.0
37	491.00	.5	-5.8	2643	2691	.2	-2.6	105.8	-240.5	29.5	16.9	-3.0
38	504.00	1.1	-6.9	2643	2691	.4	-3.0	105.3	-234.6	26.4	15.6	-3.0
39	517.00	1.8	-8.0	2643	2691	.7	-3.6	104.2	-227.7	23.4	14.2	-3.0
40	530.00	2.1	-9.7	2643	2691	.8	-3.6	102.4	-219.6	20.5	12.9	-3.0
41	543.00	2.4	-11.5	2643	2691	.9	-4.3	100.3	-209.9	17.7	11.5	-3.0
42	556.00	2.8	-13.3	2643	2691	1.0	-4.9	97.8	-198.4	15.1	10.3	-3.0
43	569.00	3.1	-15.1	2643	2691	1.2	-5.6	95.1	-185.1	12.6	9.0	-3.0
44	582.00	3.4	-16.8	2643	2691	1.3	-6.3	92.0	-170.2	10.3	7.8	-3.0
45	595.00	3.7	-18.6	2643	2691	1.4	-6.9	88.6	-153.9	8.2	6.6	-2.9
46	608.00	4.0	-20.4	2643	2691	1.5	-7.6	84.9	-134.3	6.3	5.4	-2.8
47	621.00	5.0	-22.2	2643	2691	1.9	-8.3	80.9	-114.3	4.7	4.4	-2.6
48	634.00	9.0	-21.1	2847	2599	3.2	-8.1	75.9	-92.1	3.3	3.4	-2.5
49	648.00	12.8	-19.3	2847	2403	4.5	-8.0	67.0	-71.0	2.3	2.4	-2.3
50	662.00	13.1	-16.4	2847	2203	4.6	-7.4	54.2	-51.7	1.4	1.5	-1.9
51	676.00	12.9	-13.1	2847	2007	4.5	-6.5	41.0	-35.4	.7	.9	-1.3
PENT	690.00	28.1	-22.3	5693	3733	4.9	-6.0	28.1	-22.3	.3	.4	-.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 290 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	.2	2.1	5449	5023	.0	.4	190.1	-314.4	189.2	86.7	-3.3
MEZZ	22.00	2.3	.8	2847	2898	.8	.3	189.9	-316.4	182.3	82.5	-3.0
2	36.00	2.6	.4	2643	2691	1.0	.1	187.6	-317.2	177.9	79.9	-3.0
3	49.00	3.0	.0	2643	2691	1.1	.0	185.1	-317.6	173.7	77.4	-3.0
4	62.00	3.4	-.3	2643	2691	1.3	-.1	182.1	-317.6	169.6	75.0	-3.0
5	75.00	3.8	-.7	2643	2691	1.5	-.3	178.7	-317.2	165.5	72.7	-3.0
6	88.00	4.3	-1.1	2643	2691	1.6	-.4	174.8	-316.5	161.4	70.4	-3.1
7	101.00	4.7	-1.4	2643	2691	1.8	-.5	170.5	-315.5	157.3	68.2	-3.2
8	114.00	5.1	-1.8	2643	2691	1.9	-.7	165.8	-314.1	153.2	66.0	-3.3
9	127.00	4.9	-1.6	2643	2691	1.9	-.6	160.7	-312.3	149.1	63.8	-3.3
10	140.00	4.4	-1.2	2643	2691	1.7	-.5	155.8	-310.7	145.0	61.8	-3.4
11	153.00	3.9	-.9	2643	2691	1.5	-.3	151.4	-309.5	141.0	59.8	-3.5
12	166.00	3.4	-.5	2643	2691	1.3	-.2	147.5	-308.6	137.0	57.9	-3.6
13	179.00	2.9	-.1	2643	2691	1.1	-.0	144.1	-308.1	133.0	56.0	-3.7
14	192.00	2.3	.3	2643	2691	.9	.1	141.3	-308.0	129.0	54.1	-3.7
15	205.00	1.8	.7	2643	2691	.7	.2	138.9	-308.3	125.0	52.3	-3.7
16	218.00	1.3	1.0	2643	2691	.5	.4	137.1	-309.0	121.0	50.5	-3.7
17	231.00	1.4	.9	2643	2691	.5	.3	135.8	-310.0	116.9	48.7	-3.6
18	244.00	1.6	.7	2643	2691	.6	.3	134.3	-310.9	112.9	47.0	-3.6
19	257.00	1.7	.5	2643	2691	.6	.2	132.8	-311.6	108.9	45.2	-3.5
20	270.00	1.9	.4	2643	2691	.7	.1	131.1	-312.2	104.8	43.5	-3.4
21	283.00	2.0	.2	2643	2691	.8	.1	129.2	-312.5	100.7	41.8	-3.3
22	296.00	2.1	.0	2643	2691	.8	.0	127.2	-312.7	96.7	40.1	-3.2
23	309.00	2.3	-.2	2643	2691	.9	-.1	125.1	-312.7	92.6	38.5	-3.2
24	322.00	2.2	-.3	2843	2691	.8	-.1	122.8	-312.6	88.5	36.9	-3.1
25	335.00	1.7	-.4	2643	2691	.6	-.1	120.6	-312.3	84.5	35.3	-3.0
26	348.00	1.2	-.4	2643	2691	.4	-.2	118.9	-311.9	80.4	33.8	-2.9
27	361.00	.7	-.5	2643	2691	.2	-.2	117.8	-311.5	76.4	32.2	-2.8
28	374.00	.1	-.6	2643	2691	.1	-.2	117.1	-311.0	72.3	30.7	-2.7
29	387.00	-.4	-.7	2643	2691	-.1	-.2	117.0	-310.4	68.3	29.2	-2.6
30	400.00	-.9	-.7	2643	2691	-.3	-.3	117.3	-309.8	64.3	27.6	-2.6
31	413.00	-1.4	-.8	2643	2691	-.5	-.3	118.2	-309.1	60.2	26.1	-2.5
32	426.00	-1.2	-1.4	2643	2691	-.5	-.5	119.6	-308.3	56.2	24.6	-2.4
33	439.00	-.5	-2.5	2643	2691	-.2	-.9	120.8	-306.9	52.2	23.0	-2.3
34	452.00	.1	-3.5	2643	2691	.1	-1.3	121.3	-304.4	48.2	21.4	-2.2
35	465.00	.8	-4.6	2643	2691	.3	-1.7	121.2	-300.8	44.2	19.9	-2.1
36	478.00	1.5	-5.6	2643	2691	.6	-2.1	120.4	-296.3	40.4	18.3	-2.0
37	491.00	2.1	-6.7	2643	2691	.8	-2.5	118.9	-290.7	36.6	16.8	-1.9
38	504.00	2.8	-7.7	2643	2691	1.1	-2.9	116.8	-284.0	32.9	15.3	-1.8
39	517.00	3.5	-8.7	2643	2691	1.3	-3.3	113.9	-276.3	29.2	13.8	-1.7
40	530.00	3.9	-10.9	2643	2691	1.5	-4.1	110.4	-267.5	25.7	12.4	-1.6
41	543.00	4.2	-13.2	2643	2691	1.6	-4.9	106.3	-256.6	22.3	11.0	-1.5
42	556.00	4.6	-15.4	2643	2691	1.7	-5.7	101.6	-243.5	19.0	9.8	-1.4
43	569.00	4.9	-17.7	2643	2691	1.9	-6.6	96.3	-228.0	16.0	8.6	-1.3
44	582.00	5.3	-19.9	2643	2691	2.0	-7.4	90.2	-210.4	13.0	7.5	-1.2
45	595.00	5.7	-22.2	2643	2691	2.1	-8.3	83.5	-190.4	10.2	6.5	-1.1
46	608.00	6.0	-24.5	2643	2691	2.3	-9.1	76.1	-168.2	7.6	5.4	-1.0
47	621.00	7.0	-26.7	2643	2691	2.7	-9.9	68.1	-143.7	5.2	4.3	-.9
48	634.00	11.4	-24.6	2847	2599	4.0	-9.5	58.8	-117.0	3.0	3.2	-.8
49	648.00	15.3	-22.6	2847	2403	5.4	-9.4	47.4	-92.4	1.3	2.1	-.7
50	662.00	13.0	-20.0	2847	2203	4.6	-9.1	32.2	-69.8	1.9	1.1	-.6
51	676.00	9.7	-17.1	2847	2007	3.4	-8.5	19.2	-49.8	1.0	.3	-.5
PENT	690.00	19.5	-32.8	5693	3733	3.4	-8.8	19.5	-32.8	.5	.3	-.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 300 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-2.3	1.3	5449	5023	-.4	.3	86.7	-436.7	236.9	11.2	-1.4
MEZZ	22.00	2.4	-.4	2847	2898	.8	-.1	89.0	-438.0	227.3	9.3	-1.0
2	36.00	2.7	-.9	2643	2691	1.0	-.3	86.6	-437.5	221.1	8.1	-1.0
3	49.00	3.2	-1.3	2643	2691	1.2	-.5	83.9	-436.7	215.4	7.0	-.9
4	62.00	3.7	-1.8	2643	2691	1.4	-.7	80.7	-435.4	209.8	5.9	-.9
5	75.00	4.2	-2.2	2643	2691	1.6	-.8	77.0	-433.6	204.1	4.9	-1.0
6	88.00	4.6	-2.6	2643	2691	1.7	-1.0	72.8	-431.4	198.5	3.9	-1.0
7	101.00	5.1	-3.1	2643	2691	1.9	-1.1	68.2	-428.8	192.9	3.0	-1.1
8	114.00	5.6	-3.5	2643	2691	2.1	-1.3	63.1	-425.7	187.4	2.1	-1.2
9	127.00	5.5	-3.5	2643	2691	2.1	-1.3	57.5	-422.2	181.8	1.3	-1.3
10	140.00	5.1	-3.3	2643	2691	1.9	-1.2	52.1	-418.6	176.4	.6	-1.4
11	153.00	4.8	-3.1	2643	2691	1.8	-1.2	46.9	-415.3	171.0	-.0	-1.5
12	166.00	4.4	-2.9	2643	2691	1.7	-1.1	42.1	-412.2	165.6	-.6	-1.5
13	179.00	4.1	-2.7	2643	2691	1.5	-1.0	37.7	-409.3	160.2	-1.1	-1.5
14	192.00	3.7	-2.5	2643	2691	1.4	-.9	33.6	-406.6	154.9	-1.6	-1.5
15	205.00	3.4	-2.3	2643	2691	1.3	-.9	29.9	-404.0	149.7	-2.0	-1.5
16	218.00	3.0	-2.1	2643	2691	1.1	-.8	26.6	-401.7	144.4	-2.4	-1.4
17	231.00	3.0	-2.3	2643	2691	1.1	-.8	23.5	-399.6	139.2	-2.7	-1.3
18	244.00	2.9	-2.4	2643	2691	1.1	-.9	20.6	-397.4	134.0	-3.0	-1.2
19	257.00	2.9	-2.5	2643	2691	1.1	-.9	17.6	-395.0	128.9	-3.3	-1.1
20	270.00	2.9	-2.7	2643	2691	1.1	-1.0	14.8	-392.4	123.8	-3.5	-1.0
21	283.00	2.8	-2.8	2643	2691	1.1	-1.1	11.9	-389.7	118.7	-3.6	-.9
22	296.00	2.8	-3.0	2643	2691	1.0	-1.1	9.1	-386.9	113.6	-3.7	-.8
23	309.00	2.7	-3.1	2643	2691	1.0	-1.2	6.3	-383.9	108.7	-3.8	-.6
24	322.00	2.6	-3.2	2643	2691	1.0	-1.2	3.6	-380.8	103.7	-3.9	-.5
25	335.00	2.2	-3.1	2643	2691	.8	-1.1	1.0	-377.6	98.7	-3.9	-.4
26	348.00	1.9	-2.9	2643	2691	.7	-1.1	-1.3	-374.5	93.8	-3.9	-.3
27	361.00	1.5	-2.8	2643	2691	.6	-1.0	-3.1	-371.6	89.0	-3.9	-.2
28	374.00	1.2	-2.6	2643	2691	.4	-1.0	-4.7	-368.8	84.2	-3.8	-.1
29	387.00	.8	-2.5	2643	2691	.3	-.9	-5.9	-366.2	79.4	-3.8	-.1
30	400.00	.5	-2.3	2643	2691	.2	-.9	-6.7	-363.7	74.7	-3.7	-.0
31	413.00	.1	-2.2	2643	2691	.0	-.8	-7.1	-361.4	69.9	-3.6	.0
32	426.00	.1	-2.9	2643	2691	.0	-1.1	-7.2	-359.2	65.3	-3.6	.0
33	439.00	.2	-4.2	2643	2691	.1	-1.6	-7.3	-356.2	60.6	-3.4	.1
34	452.00	.4	-5.5	2643	2691	.2	-2.0	-7.5	-352.1	56.0	-3.3	.1
35	465.00	.6	-6.7	2643	2691	.2	-2.5	-7.9	-346.6	51.5	-3.3	.1
36	478.00	.7	-8.0	2643	2691	.3	-3.0	-8.5	-339.9	47.0	-3.1	.1
37	491.00	.9	-9.3	2643	2691	.3	-3.5	-9.2	-331.8	42.6	-3.0	.2
38	504.00	1.1	-10.6	2643	2691	.4	-3.9	-10.1	-322.6	38.4	-2.9	.2
39	517.00	1.2	-11.8	2643	2691	.5	-4.4	-11.2	-312.0	34.3	-2.7	.3
40	530.00	1.0	-13.4	2643	2691	.4	-5.0	-12.5	-300.2	30.3	-2.6	.3
41	543.00	.8	-15.1	2643	2691	.3	-5.6	-13.5	-286.7	26.5	-2.4	.4
42	556.00	.5	-16.7	2643	2691	.2	-6.2	-14.2	-271.7	22.8	-2.2	.4
43	569.00	.2	-18.3	2643	2691	.1	-6.8	-14.7	-255.7	19.4	-2.0	.4
44	582.00	-.0	-19.9	2643	2691	-.0	-7.4	-14.9	-236.7	16.2	-1.8	.4
45	595.00	-.3	-21.5	2643	2691	-.1	-8.0	-14.9	-216.8	13.3	-1.7	.3
46	608.00	-.6	-23.2	2643	2691	-.2	-8.6	-14.6	-195.2	10.6	-1.5	.3
47	621.00	-.4	-25.0	2643	2691	-.2	-9.3	-14.0	-172.1	8.2	-1.3	.2
48	634.00	1.5	-25.2	2847	2599	.5	-9.7	-13.6	-147.1	6.1	-1.1	.2
49	648.00	3.5	-24.8	2847	2403	1.2	-10.3	-15.1	-121.9	4.2	-.9	.2
50	662.00	-.3	-24.7	2847	2203	-.1	-11.2	-18.6	-97.0	2.7	-.7	.1
51	676.00	-5.1	-23.6	2847	2007	-1.8	-11.8	-18.3	-72.3	1.5	-.4	.0
PENT	690.00	-13.2	-48.7	5693	3733	-2.3	-13.0	-13.2	-48.7	.7	-.2	.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 310 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	.4	-14.0	5449	5023	.1	-2.8	-438.7	-959.8	498.1	-258.3	2.9
MEZZ	22.00	.1	-6.5	2847	2898	.0	-2.2	-439.2	-945.8	477.2	-248.6	3.7
2	36.00	.4	-6.2	2643	2691	.2	-2.3	-439.3	-939.3	464.9	-242.5	3.7
3	49.00	.8	-6.5	2643	2691	.3	-2.4	-439.7	-933.1	451.8	-236.7	3.7
4	62.00	1.1	-6.7	2643	2691	.4	-2.5	-440.5	-926.6	439.7	-231.0	3.7
5	75.00	1.4	-6.9	2643	2691	.5	-2.6	-441.6	-919.9	427.7	-225.3	3.7
6	88.00	1.7	-7.1	2643	2691	.6	-2.6	-442.9	-913.0	415.8	-219.5	3.6
7	101.00	2.0	-7.3	2643	2691	.8	-2.7	-444.7	-905.9	404.0	-213.8	3.6
8	114.00	2.3	-7.6	2643	2691	.9	-2.8	-446.7	-898.6	392.3	-208.0	3.6
9	127.00	2.2	-7.4	2643	2691	.8	-2.8	-449.0	-891.0	380.6	-202.2	3.6
10	140.00	1.9	-7.1	2643	2691	.7	-2.6	-451.3	-883.6	369.1	-196.4	3.6
11	153.00	1.6	-6.8	2643	2691	.6	-2.5	-453.2	-876.5	357.6	-190.4	3.5
12	166.00	1.3	-6.5	2643	2691	.5	-2.4	-454.8	-869.7	346.3	-184.5	3.5
13	179.00	1.0	-6.1	2643	2691	.4	-2.3	-456.1	-863.3	335.0	-178.6	3.5
14	192.00	.7	-5.8	2643	2691	.2	-2.2	-457.0	-857.2	323.9	-172.7	3.5
15	205.00	.3	-5.5	2643	2691	.1	-2.0	-457.7	-851.4	312.7	-166.7	3.5
16	218.00	.0	-5.2	2643	2691	.0	-1.9	-458.0	-845.9	301.7	-160.8	3.5
17	231.00	-.5	-5.1	2643	2691	-.2	-1.9	-458.1	-840.7	290.8	-154.8	3.5
18	244.00	-1.1	-5.0	2643	2691	-.4	-1.9	-457.5	-835.6	279.9	-148.9	3.5
19	257.00	-1.7	-4.9	2643	2691	-.6	-1.8	-456.4	-830.6	269.0	-142.9	3.5
20	270.00	-2.2	-4.8	2643	2691	-.8	-1.8	-454.8	-825.7	258.3	-137.0	3.5
21	283.00	-2.8	-4.8	2643	2691	-1.1	-1.8	-452.5	-820.9	247.6	-131.1	3.5
22	296.00	-3.4	-4.7	2643	2691	-1.3	-1.7	-449.7	-816.1	236.9	-125.2	3.5
23	309.00	-3.9	-4.6	2643	2691	-1.5	-1.7	-446.4	-811.4	226.3	-119.4	3.5
24	322.00	-4.4	-4.7	2643	2691	-1.7	-1.7	-442.4	-806.8	215.8	-113.6	3.5
25	335.00	-4.8	-5.1	2643	2691	-1.8	-1.9	-438.0	-802.2	205.4	-107.9	3.5
26	348.00	-5.2	-5.5	2643	2691	-2.0	-2.0	-433.2	-797.1	195.0	-102.2	3.5
27	361.00	-5.5	-5.9	2643	2691	-2.1	-2.2	-428.0	-791.7	184.6	-96.6	3.5
28	374.00	-5.9	-6.3	2643	2691	-2.2	-2.3	-422.4	-785.8	174.4	-91.1	3.5
29	387.00	-6.3	-6.7	2643	2691	-2.4	-2.5	-416.5	-779.5	164.2	-85.7	3.5
30	400.00	-6.6	-7.1	2643	2691	-2.5	-2.6	-410.3	-772.9	154.1	-80.3	3.5
31	413.00	-7.0	-7.5	2643	2691	-2.6	-2.8	-403.6	-765.8	144.1	-75.0	3.5
32	426.00	-7.6	-9.0	2643	2691	-2.9	-3.3	-396.6	-758.4	134.2	-69.8	3.5
33	439.00	-8.3	-11.3	2643	2691	-3.2	-4.2	-389.0	-749.4	124.4	-64.7	3.5
34	452.00	-9.1	-13.5	2643	2691	-3.4	-5.0	-380.7	-738.1	114.7	-59.7	3.5
35	465.00	-9.8	-15.8	2643	2691	-3.7	-5.9	-371.6	-724.6	105.2	-54.8	3.5
36	478.00	-10.5	-18.1	2643	2691	-4.0	-6.7	-361.8	-708.7	95.9	-50.0	3.5
37	491.00	-11.3	-20.4	2643	2691	-4.3	-7.6	-351.3	-690.7	86.8	-45.4	3.5
38	504.00	-12.0	-22.6	2643	2691	-4.5	-8.4	-340.0	-670.3	78.0	-40.9	3.5
39	517.00	-12.8	-24.9	2643	2691	-4.8	-9.3	-328.0	-647.6	69.4	-36.6	3.5
40	530.00	-14.3	-28.5	2643	2691	-5.4	-10.6	-315.2	-622.2	61.1	-32.4	3.5
41	543.00	-16.0	-32.2	2643	2691	-6.1	-12.0	-300.9	-594.2	53.2	-28.4	3.5
42	556.00	-17.7	-36.0	2643	2691	-6.7	-13.4	-284.9	-562.0	45.7	-24.6	3.5
43	569.00	-19.4	-39.7	2643	2691	-7.3	-14.7	-267.2	-526.0	38.7	-21.0	3.4
44	582.00	-21.0	-43.4	2643	2691	-8.0	-16.1	-247.8	-486.3	32.1	-17.6	3.4
45	595.00	-22.7	-47.1	2643	2691	-8.6	-17.5	-226.8	-442.9	26.0	-14.6	3.4
46	608.00	-24.4	-50.8	2643	2691	-9.2	-18.9	-204.0	-395.8	20.6	-11.8	3.4
47	621.00	-24.9	-54.0	2643	2691	-9.4	-20.1	-179.6	-345.0	15.8	-9.3	3.3
48	634.00	-23.0	-54.9	2847	2599	-8.1	-21.1	-154.7	-291.0	11.6	-7.1	3.3
49	648.00	-19.0	-52.2	2847	2403	-6.7	-21.7	-131.7	-236.1	7.9	-5.1	3.3
50	662.00	-22.5	-49.9	2847	2203	-7.9	-22.7	-112.6	-183.9	5.0	-3.4	3.3
51	676.00	-27.3	-46.3	2847	2007	-9.6	-23.1	-90.1	-133.9	2.8	-2.0	3.3
PENT	690.00	-62.9	-87.6	5693	3733	-11.0	-23.5	-62.9	-87.6	1.2	-.9	2.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 320 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-1.7	-14.1	5449	5023	-.3	-2.8	-957.6	-1061.1	466.3	-482.5	2.7
MEZZ	22.00	-.3	-13.1	2847	2898	-.1	-4.5	-955.9	-1047.0	443.1	-461.5	2.3
2	36.00	-.2	-12.7	2643	2691	-.1	-4.7	-955.6	-1033.9	428.5	-448.1	3.5
3	49.00	-.2	-13.2	2643	2691	-.1	-4.9	-955.3	-1021.3	415.2	-435.7	3.4
4	62.00	-.1	-13.7	2643	2691	-.0	-5.1	-955.2	-1008.1	402.0	-423.2	3.4
5	75.00	-.1	-14.2	2643	2691	-.0	-5.3	-955.0	-994.4	389.0	-410.8	3.4
6	88.00	.0	-14.7	2643	2691	.0	-5.5	-955.0	-980.2	376.1	-398.4	3.3
7	101.00	.1	-15.2	2643	2691	.0	-5.7	-955.0	-965.5	363.5	-386.0	3.3
8	114.00	.1	-15.7	2643	2691	.1	-5.8	-955.1	-950.2	351.0	-373.6	3.2
9	127.00	-.9	-15.6	2643	2691	-.3	-5.8	-955.2	-934.5	338.8	-361.2	3.0
10	140.00	-2.5	-15.1	2643	2691	-1.0	-5.6	-954.3	-918.9	326.7	-348.7	2.9
11	153.00	-4.1	-14.6	2643	2691	-1.6	-5.4	-951.8	-903.9	314.9	-336.4	2.8
12	166.00	-5.7	-14.1	2643	2691	-2.2	-5.2	-947.7	-889.3	303.2	-324.0	2.7
13	179.00	-7.3	-13.6	2643	2691	-2.8	-5.0	-942.0	-875.3	291.8	-311.7	2.7
14	192.00	-8.9	-13.1	2643	2691	-3.4	-4.9	-934.6	-861.7	280.5	-299.5	2.7
15	205.00	-10.5	-12.6	2643	2691	-4.0	-4.7	-925.7	-848.6	269.4	-287.4	2.7
16	218.00	-12.1	-12.1	2643	2691	-4.6	-4.5	-915.2	-836.1	258.4	-275.5	2.7
17	231.00	-12.6	-12.0	2643	2691	-4.8	-4.5	-903.1	-824.0	247.6	-263.7	2.7
18	244.00	-13.0	-12.0	2643	2691	-4.9	-4.5	-890.5	-812.0	237.0	-252.0	2.7
19	257.00	-13.5	-12.0	2643	2691	-5.1	-4.5	-877.5	-799.9	226.5	-240.5	2.8
20	270.00	-13.9	-12.0	2643	2691	-5.3	-4.5	-864.0	-787.9	216.2	-229.2	3.0
21	283.00	-14.4	-12.0	2643	2691	-5.4	-4.5	-850.1	-775.9	206.0	-218.0	3.1
22	296.00	-14.8	-12.0	2643	2691	-5.6	-4.5	-835.7	-763.9	196.0	-207.1	3.2
23	309.00	-15.3	-12.0	2643	2691	-5.8	-4.5	-820.9	-751.9	186.2	-196.3	3.3
24	322.00	-15.8	-12.2	2643	2691	-6.0	-4.5	-805.6	-739.9	176.5	-185.7	3.4
25	335.00	-16.6	-13.0	2643	2691	-6.3	-4.8	-789.7	-727.6	166.9	-175.4	3.5
26	348.00	-17.4	-13.7	2643	2691	-6.6	-5.1	-773.1	-714.7	157.5	-165.2	3.7
27	361.00	-18.1	-14.4	2643	2691	-6.9	-5.4	-755.7	-701.0	148.3	-155.3	3.8
28	374.00	-18.9	-15.2	2643	2691	-7.2	-5.6	-737.6	-686.6	139.3	-145.6	4.0
29	387.00	-19.7	-15.9	2643	2691	-7.4	-5.9	-718.7	-671.4	130.5	-136.1	4.2
30	400.00	-20.5	-16.6	2643	2691	-7.7	-6.2	-699.0	-655.5	121.9	-126.9	4.4
31	413.00	-21.2	-17.4	2643	2691	-8.0	-6.5	-678.5	-638.9	113.5	-117.9	4.6
32	426.00	-21.5	-18.0	2643	2691	-8.1	-6.7	-657.3	-621.5	105.3	-109.3	4.9
33	439.00	-21.4	-18.6	2643	2691	-8.1	-6.9	-635.8	-603.5	97.3	-100.8	5.1
34	452.00	-21.3	-19.2	2643	2691	-8.1	-7.1	-614.4	-584.8	89.6	-92.7	5.4
35	465.00	-21.2	-19.8	2643	2691	-8.0	-7.4	-593.1	-565.6	82.1	-84.9	5.6
36	478.00	-21.2	-20.4	2643	2691	-8.0	-7.6	-571.8	-545.8	74.9	-77.3	5.9
37	491.00	-21.1	-21.0	2643	2691	-8.0	-7.8	-550.7	-525.5	67.9	-70.0	6.2
38	504.00	-21.0	-21.6	2643	2691	-7.9	-8.0	-529.6	-504.5	61.2	-63.0	6.4
39	517.00	-20.9	-22.2	2643	2691	-7.9	-8.2	-508.6	-482.9	54.8	-56.2	6.7
40	530.00	-23.0	-23.1	2643	2691	-8.7	-8.6	-487.7	-460.7	48.7	-49.8	7.0
41	543.00	-25.2	-24.0	2643	2691	-9.5	-8.9	-464.7	-437.7	42.8	-43.6	7.2
42	556.00	-27.5	-24.9	2643	2691	-10.4	-9.3	-439.5	-413.7	37.3	-37.7	7.5
43	569.00	-29.7	-25.9	2643	2691	-11.2	-9.6	-412.0	-388.8	32.1	-32.2	7.7
44	582.00	-32.0	-26.8	2643	2691	-12.1	-10.0	-382.3	-362.9	27.2	-27.0	7.7
45	595.00	-34.2	-27.7	2643	2691	-12.9	-10.3	-350.3	-336.1	22.6	-22.2	7.6
46	608.00	-36.5	-28.7	2643	2691	-13.8	-10.6	-316.1	-308.4	18.5	-17.9	7.6
47	621.00	-37.8	-30.1	2643	2691	-14.3	-11.2	-279.6	-279.7	14.6	-14.0	6.6
48	634.00	-38.3	-34.3	2847	2599	-13.4	-13.2	-241.9	-249.6	11.2	-10.6	6.6
49	648.00	-35.8	-36.2	2847	2403	-12.6	-15.1	-203.6	-215.3	7.9	-7.5	5.5
50	662.00	-37.3	-40.6	2847	2203	-13.1	-18.4	-167.8	-179.1	5.2	-4.9	5.4
51	676.00	-39.4	-44.1	2847	2007	-13.8	-22.0	-130.6	-138.6	3.0	-2.8	5.2
PENT	690.00	-91.2	-94.5	5693	3733	-16.0	-25.3	-91.2	-94.5	1.3	-1.3	2.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 330 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-13.3	-22.9	5449	5023	-2.4	-4.6	-1230.9	-1190.6	475.7	-560.6	1.5
MEZZ	22.00	-7.8	-21.0	2847	2898	-2.7	-7.2	-1217.6	-1167.7	449.7	-533.6	2.0
2	36.00	-7.1	-19.7	2643	2691	-2.7	-7.3	-1209.7	-1146.7	433.5	-516.6	2.0
3	49.00	-6.9	-19.9	2643	2691	-2.6	-7.4	-1202.6	-1127.0	418.7	-501.0	2.0
4	62.00	-6.8	-20.1	2643	2691	-2.6	-7.5	-1195.7	-1107.1	404.2	-485.4	1.9
5	75.00	-6.6	-20.3	2643	2691	-2.5	-7.5	-1188.9	-1087.0	390.0	-469.9	1.8
6	88.00	-6.4	-20.5	2643	2691	-2.4	-7.6	-1182.3	-1066.7	376.0	-454.4	1.7
7	101.00	-6.3	-20.7	2643	2691	-2.4	-7.7	-1175.9	-1046.2	362.2	-439.1	1.5
8	114.00	-6.1	-20.9	2643	2691	-2.3	-7.8	-1169.6	-1025.5	348.8	-423.9	1.3
9	127.00	-7.2	-20.5	2643	2691	-2.7	-7.6	-1163.5	-1004.7	335.6	-408.7	1.1
10	140.00	-8.8	-19.9	2643	2691	-3.3	-7.4	-1156.3	-984.2	322.6	-393.6	.9
11	153.00	-10.5	-19.3	2643	2691	-4.0	-7.2	-1147.4	-964.2	310.0	-378.7	.7
12	166.00	-12.1	-18.7	2643	2691	-4.6	-7.0	-1137.0	-944.9	297.6	-363.8	.5
13	179.00	-13.7	-18.2	2643	2691	-5.2	-6.7	-1124.9	-926.1	285.4	-349.1	.3
14	192.00	-15.4	-17.6	2643	2691	-5.8	-6.5	-1111.1	-908.0	273.5	-334.6	.2
15	205.00	-17.0	-17.0	2643	2691	-6.4	-6.3	-1095.8	-890.4	261.8	-320.2	.1
16	218.00	-18.7	-16.4	2643	2691	-7.1	-6.1	-1078.7	-873.5	250.3	-306.1	-.0
17	231.00	-19.1	-16.4	2643	2691	-7.2	-6.1	-1060.1	-857.1	239.1	-292.2	-.1
18	244.00	-19.6	-16.4	2643	2691	-7.4	-6.1	-1041.0	-840.7	228.0	-278.5	-.1
19	257.00	-20.0	-16.4	2643	2691	-7.6	-6.1	-1021.4	-824.3	217.2	-265.1	-.2
20	270.00	-20.4	-16.5	2643	2691	-7.7	-6.1	-1001.4	-807.9	206.6	-252.0	-.2
21	283.00	-20.9	-16.5	2643	2691	-7.9	-6.1	-981.0	-791.4	196.2	-239.1	-.1
22	296.00	-21.3	-16.5	2643	2691	-8.1	-6.1	-960.1	-774.9	186.0	-226.5	-.1
23	309.00	-21.8	-16.5	2643	2691	-8.2	-6.1	-938.8	-758.4	176.1	-214.1	-.0
24	322.00	-22.2	-16.7	2643	2691	-8.4	-6.2	-917.0	-741.9	166.3	-202.1	.1
25	335.00	-22.6	-17.4	2643	2691	-8.6	-6.5	-894.8	-725.2	156.8	-190.3	.2
26	348.00	-23.1	-18.1	2643	2691	-8.7	-6.7	-872.2	-707.7	147.5	-178.8	.3
27	361.00	-23.5	-18.8	2643	2691	-8.9	-7.0	-849.2	-689.6	138.4	-167.6	.4
28	374.00	-23.9	-19.5	2643	2691	-9.0	-7.3	-825.7	-670.8	129.5	-156.7	.6
29	387.00	-24.3	-20.2	2643	2691	-9.2	-7.5	-801.8	-651.2	121.0	-146.2	.7
30	400.00	-24.8	-20.9	2643	2691	-9.4	-7.8	-777.4	-631.0	112.6	-135.9	.9
31	413.00	-25.2	-21.6	2643	2691	-9.5	-8.0	-752.7	-610.1	104.6	-125.9	1.1
32	426.00	-25.4	-21.9	2643	2691	-9.6	-8.1	-727.5	-588.5	96.8	-116.3	1.3
33	439.00	-25.4	-21.8	2643	2691	-9.6	-8.1	-702.1	-566.6	89.3	-107.0	1.5
34	452.00	-25.4	-21.7	2643	2691	-9.6	-8.1	-676.8	-544.8	82.0	-98.1	1.7
35	465.00	-25.4	-21.7	2643	2691	-9.6	-8.1	-651.4	-523.1	75.1	-89.4	2.0
36	478.00	-25.3	-21.6	2643	2691	-9.6	-8.0	-626.1	-501.4	68.4	-81.1	2.2
37	491.00	-25.3	-21.5	2643	2691	-9.6	-8.0	-600.7	-479.8	62.0	-73.2	2.5
38	504.00	-25.3	-21.5	2643	2691	-9.6	-8.0	-575.4	-458.3	55.9	-65.5	2.8
39	517.00	-25.3	-21.4	2643	2691	-9.6	-8.0	-550.0	-436.8	50.1	-58.2	3.0
40	530.00	-27.4	-21.7	2643	2691	-10.4	-8.1	-524.7	-415.4	44.6	-51.2	3.4
41	543.00	-29.6	-21.9	2643	2691	-11.2	-8.1	-497.3	-393.7	39.3	-44.6	3.6
42	556.00	-31.8	-22.2	2643	2691	-12.0	-8.2	-467.7	-371.8	34.4	-38.3	3.8
43	569.00	-34.1	-22.5	2643	2691	-12.9	-8.3	-435.9	-349.6	29.7	-32.4	4.0
44	582.00	-36.3	-22.7	2643	2691	-13.7	-8.4	-401.8	-327.1	25.3	-27.0	4.0
45	595.00	-38.5	-23.0	2643	2691	-14.6	-8.5	-365.5	-304.4	21.2	-22.0	4.1
46	608.00	-40.7	-23.3	2643	2691	-15.4	-8.6	-327.0	-281.4	17.4	-17.5	4.1
47	621.00	-42.1	-24.2	2643	2691	-15.9	-9.0	-286.3	-258.2	13.9	-13.5	4.0
48	634.00	-43.3	-29.6	2847	2599	-15.2	-11.4	-244.2	-233.9	10.7	-10.1	3.8
49	648.00	-41.2	-33.3	2847	2403	-14.5	-13.9	-200.8	-204.3	7.6	-6.9	3.5
50	662.00	-40.9	-38.4	2847	2203	-14.4	-17.4	-159.6	-171.0	5.0	-4.4	3.1
51	676.00	-40.8	-42.0	2847	2007	-14.3	-20.9	-118.7	-132.6	2.8	-2.5	2.5
PENT	690.00	-78.0	-90.7	5693	3733	-13.7	-24.3	-78.0	-90.7	1.3	-1.1	1.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-34.1	-24.4	5449	5023	-6.3	-4.9	-1529.3	-1317.1	523.3	-611.5	1.1
MEZZ	22.00	-20.3	-23.9	2847	2898	-7.1	-8.3	-1495.2	-1292.7	494.6	-578.2	1.1
2	36.00	-18.4	-22.0	2643	2691	-6.9	-8.2	-1474.9	-1268.8	476.7	-557.4	.9
3	49.00	-17.9	-21.8	2643	2691	-6.8	-8.1	-1456.5	-1246.8	460.3	-538.3	.7
4	62.00	-17.4	-21.7	2643	2691	-6.6	-8.0	-1438.6	-1224.9	444.3	-519.5	.5
5	75.00	-17.0	-21.5	2643	2691	-6.4	-8.0	-1421.1	-1203.3	428.5	-500.9	.3
6	88.00	-16.5	-21.3	2643	2691	-6.3	-7.9	-1404.2	-1181.8	413.0	-482.6	.0
7	101.00	-16.1	-21.1	2643	2691	-6.1	-7.8	-1387.6	-1160.5	397.8	-464.4	-.2
8	114.00	-15.6	-20.9	2643	2691	-5.9	-7.8	-1371.6	-1139.4	382.8	-446.5	-.5
9	127.00	-16.5	-20.8	2643	2691	-6.3	-7.7	-1356.0	-1118.5	368.1	-428.8	-.8
10	140.00	-18.1	-20.7	2643	2691	-6.8	-7.7	-1339.4	-1097.7	353.7	-411.2	-1.1
11	153.00	-19.7	-20.6	2643	2691	-7.4	-7.6	-1321.3	-1077.0	339.6	-393.9	-1.4
12	166.00	-21.2	-20.5	2643	2691	-8.0	-7.6	-1301.7	-1056.4	325.7	-376.9	-1.6
13	179.00	-22.8	-20.4	2643	2691	-8.6	-7.6	-1280.5	-1035.9	312.1	-360.1	-1.8
14	192.00	-24.3	-20.2	2643	2691	-9.2	-7.5	-1257.7	-1015.6	298.8	-343.6	-1.9
15	205.00	-25.9	-20.1	2643	2691	-9.8	-7.5	-1233.4	-995.3	285.7	-327.4	-2.0
16	218.00	-27.5	-20.0	2643	2691	-10.4	-7.4	-1207.5	-975.2	272.9	-311.6	-2.1
17	231.00	-27.8	-20.0	2643	2691	-10.5	-7.4	-1180.0	-955.2	260.4	-296.0	-2.2
18	244.00	-28.2	-20.0	2643	2691	-10.7	-7.4	-1152.2	-935.2	248.1	-280.9	-2.2
19	257.00	-28.5	-20.0	2643	2691	-10.8	-7.4	-1124.0	-915.2	236.1	-266.1	-2.2
20	270.00	-28.8	-20.0	2643	2691	-10.9	-7.4	-1095.5	-895.2	224.3	-251.7	-2.2
21	283.00	-29.2	-19.9	2643	2691	-11.0	-7.4	-1066.7	-875.3	212.8	-237.6	-2.1
22	296.00	-29.5	-19.9	2643	2691	-11.2	-7.4	-1037.5	-855.3	201.5	-223.9	-2.1
23	309.00	-29.8	-19.9	2643	2691	-11.3	-7.4	-1008.0	-835.4	190.5	-210.6	-2.0
24	322.00	-30.1	-20.0	2643	2691	-11.4	-7.4	-978.2	-815.5	179.8	-197.7	-1.9
25	335.00	-30.3	-20.5	2643	2691	-11.5	-7.6	-948.0	-795.4	169.3	-185.2	-1.9
26	348.00	-30.6	-20.9	2643	2691	-11.6	-7.8	-917.7	-774.9	159.1	-173.1	-1.8
27	361.00	-30.8	-21.4	2643	2691	-11.6	-8.0	-887.1	-754.0	149.2	-161.3	-1.6
28	374.00	-31.0	-21.8	2643	2691	-11.7	-8.1	-856.4	-732.6	139.5	-150.0	-1.5
29	387.00	-31.2	-22.3	2643	2691	-11.8	-8.3	-825.4	-710.7	130.1	-139.1	-1.4
30	400.00	-31.4	-22.7	2643	2691	-11.9	-8.5	-794.2	-688.4	121.1	-128.5	-1.2
31	413.00	-31.6	-23.2	2643	2691	-12.0	-8.6	-762.8	-665.7	112.2	-118.4	-1.1
32	426.00	-31.5	-23.4	2643	2691	-11.9	-8.7	-731.2	-642.5	103.7	-108.7	-.9
33	439.00	-31.2	-23.5	2643	2691	-11.8	-8.7	-699.8	-619.1	95.5	-99.4	-.8
34	452.00	-30.9	-23.6	2643	2691	-11.7	-8.8	-668.6	-595.6	87.7	-90.5	-.6
35	465.00	-30.6	-23.7	2643	2691	-11.6	-8.8	-637.7	-572.0	80.1	-82.0	-.4
36	478.00	-30.3	-23.8	2643	2691	-11.5	-8.8	-607.1	-548.3	72.8	-73.9	-.2
37	491.00	-30.0	-23.8	2643	2691	-11.3	-8.9	-576.8	-524.6	65.8	-66.2	.0
38	504.00	-29.7	-23.9	2643	2691	-11.2	-8.9	-546.8	-500.7	59.1	-58.9	.2
39	517.00	-29.4	-24.0	2643	2691	-11.1	-8.9	-517.1	-476.8	52.8	-52.0	.5
40	530.00	-30.4	-24.6	2643	2691	-11.5	-9.1	-487.8	-452.8	46.7	-45.5	.7
41	543.00	-31.6	-25.2	2643	2691	-12.0	-9.4	-457.3	-428.2	41.0	-39.3	.9
42	556.00	-32.8	-25.9	2643	2691	-12.4	-9.6	-425.7	-403.0	35.6	-33.6	1.1
43	569.00	-34.0	-26.5	2643	2691	-12.9	-9.9	-392.8	-377.1	30.5	-28.3	1.2
44	582.00	-35.2	-27.2	2643	2691	-13.3	-10.1	-358.8	-350.6	25.8	-23.4	1.3
45	595.00	-36.4	-27.8	2643	2691	-13.8	-10.3	-323.5	-323.4	21.4	-19.0	1.4
46	608.00	-37.6	-28.5	2643	2691	-14.2	-10.6	-287.1	-295.6	17.4	-15.0	1.5
47	621.00	-38.2	-29.4	2643	2691	-14.4	-10.9	-249.4	-267.1	13.8	-11.5	1.5
48	634.00	-39.0	-34.0	2847	2599	-13.7	-13.1	-211.3	-237.7	10.5	-8.5	1.5
49	648.00	-36.9	-36.4	2847	2403	-13.0	-15.1	-172.2	-203.7	7.4	-5.8	1.4
50	662.00	-36.0	-39.3	2847	2203	-12.7	-17.9	-135.3	-167.3	4.8	-3.7	1.2
51	676.00	-35.4	-41.2	2847	2007	-12.4	-20.5	-99.3	-128.0	2.7	-2.0	1.0
PENT	690.00	-63.9	-86.8	5693	3733	-11.2	-23.2	-63.9	-86.8	1.2	-.9	.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : III HOUSTON CENTER, HOUSTON 50 YEAR WIND
WIND DIRECTION 350 CONFIGURATION A REFERENCE PRESSURE 33.0 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
STRT	0.00	-46.1	-27.4	5449	5023	-8.5	-5.5	-1747.0	-1462.5	595.5	-664.0	-6.2
MEZZ	22.00	-32.4	-19.4	2847	2898	-11.4	-6.7	-1700.9	-1435.1	563.6	-626.1	-5.7
2	36.00	-28.8	-17.9	2643	2691	-10.9	-6.7	-1668.5	-1415.8	543.7	-602.5	-5.8
3	49.00	-27.7	-17.9	2643	2691	-10.5	-6.7	-1639.7	-1397.8	525.4	-581.0	-6.0
4	62.00	-26.5	-17.9	2643	2691	-10.0	-6.6	-1612.0	-1379.9	507.3	-559.8	-6.1
5	75.00	-25.3	-17.9	2643	2691	-9.6	-6.6	-1585.5	-1362.0	489.5	-539.1	-6.1
6	88.00	-24.1	-17.8	2643	2691	-9.1	-6.6	-1560.3	-1344.2	471.9	-518.6	-6.2
7	101.00	-22.9	-17.8	2643	2691	-8.7	-6.6	-1536.1	-1326.3	454.5	-498.5	-6.3
8	114.00	-21.8	-17.8	2643	2691	-8.2	-6.6	-1513.2	-1308.5	437.4	-478.7	-6.3
9	127.00	-22.2	-18.3	2643	2691	-8.4	-6.8	-1491.4	-1290.7	420.5	-459.1	-6.4
10	140.00	-23.4	-19.0	2643	2691	-8.9	-7.1	-1469.2	-1272.5	403.9	-439.9	-6.4
11	153.00	-24.6	-19.8	2643	2691	-9.3	-7.4	-1445.8	-1253.4	387.4	-420.9	-6.4
12	166.00	-25.8	-20.5	2643	2691	-9.8	-7.6	-1421.2	-1233.6	371.3	-402.3	-6.3
13	179.00	-27.0	-21.3	2643	2691	-10.2	-7.9	-1395.4	-1213.1	355.4	-384.0	-6.3
14	192.00	-28.2	-22.0	2643	2691	-10.7	-8.2	-1368.4	-1191.8	339.7	-366.0	-6.2
15	205.00	-29.5	-22.8	2643	2691	-11.1	-8.5	-1340.1	-1169.8	324.4	-348.4	-6.2
16	218.00	-30.7	-23.5	2643	2691	-11.6	-8.7	-1310.7	-1147.0	309.3	-331.2	-6.1
17	231.00	-30.9	-23.9	2643	2691	-11.7	-8.9	-1280.0	-1123.4	294.6	-314.4	-6.0
18	244.00	-31.2	-24.3	2643	2691	-11.8	-9.0	-1249.1	-1099.5	280.1	-297.9	-5.8
19	257.00	-31.5	-24.7	2643	2691	-11.9	-9.2	-1217.9	-1075.2	266.0	-281.9	-5.7
20	270.00	-31.7	-25.1	2643	2691	-12.0	-9.3	-1186.4	-1050.5	252.2	-266.3	-5.6
21	283.00	-32.0	-25.5	2643	2691	-12.1	-9.5	-1154.7	-1025.4	238.7	-251.0	-5.5
22	296.00	-32.2	-25.8	2643	2691	-12.2	-9.6	-1122.7	-1000.0	225.5	-236.2	-5.3
23	309.00	-32.5	-26.2	2643	2691	-12.3	-9.7	-1090.5	-974.2	212.7	-221.9	-5.2
24	322.00	-32.8	-26.6	2643	2691	-12.4	-9.9	-1058.0	-947.9	200.2	-207.9	-5.1
25	335.00	-33.4	-26.9	2643	2691	-12.6	-10.0	-1025.2	-921.4	188.0	-194.3	-4.9
26	348.00	-34.0	-27.3	2643	2691	-12.9	-10.1	-991.7	-894.4	176.2	-181.2	-4.8
27	361.00	-34.6	-27.6	2643	2691	-13.1	-10.3	-957.7	-867.2	164.8	-168.6	-4.6
28	374.00	-35.2	-27.9	2643	2691	-13.3	-10.4	-923.1	-839.6	153.7	-156.3	-4.5
29	387.00	-35.8	-28.3	2643	2691	-13.5	-10.5	-887.9	-811.6	143.0	-144.6	-4.3
30	400.00	-36.4	-28.6	2643	2691	-13.8	-10.6	-852.2	-783.4	132.6	-133.3	-4.2
31	413.00	-36.9	-29.0	2643	2691	-14.0	-10.8	-815.8	-754.7	122.6	-122.4	-4.0
32	426.00	-36.8	-29.0	2643	2691	-13.9	-10.8	-778.8	-725.8	113.0	-112.1	-3.8
33	439.00	-36.2	-28.9	2643	2691	-13.7	-10.7	-742.0	-696.8	103.7	-102.2	-3.7
34	452.00	-35.7	-28.8	2643	2691	-13.5	-10.7	-705.8	-667.9	94.9	-92.8	-3.5
35	465.00	-35.1	-28.6	2643	2691	-13.3	-10.6	-670.1	-639.1	86.4	-83.8	-3.3
36	478.00	-34.5	-28.5	2643	2691	-13.1	-10.6	-635.0	-610.5	78.2	-75.3	-3.1
37	491.00	-33.9	-28.4	2643	2691	-12.8	-10.5	-600.5	-582.0	70.5	-67.3	-2.8
38	504.00	-33.3	-28.2	2643	2691	-12.6	-10.5	-566.6	-553.7	63.1	-59.7	-2.6
39	517.00	-32.7	-28.1	2643	2691	-12.4	-10.4	-533.3	-525.4	56.1	-52.6	-2.3
40	530.00	-33.4	-28.8	2643	2691	-12.6	-10.7	-500.5	-497.3	49.4	-45.8	-2.0
41	543.00	-34.2	-29.6	2643	2691	-13.0	-11.0	-467.1	-468.5	43.2	-39.6	-1.8
42	556.00	-35.0	-30.4	2643	2691	-13.3	-11.3	-432.9	-438.9	37.3	-33.7	-1.5
43	569.00	-35.8	-31.2	2643	2691	-13.6	-11.6	-397.8	-408.5	31.8	-28.3	-1.3
44	582.00	-36.6	-32.0	2643	2691	-13.9	-11.9	-362.0	-377.3	26.7	-23.4	-1.1
45	595.00	-37.5	-32.8	2643	2691	-14.2	-12.2	-325.3	-345.2	22.0	-18.9	-.9
46	608.00	-38.3	-33.6	2643	2691	-14.5	-12.5	-287.9	-312.4	17.8	-14.9	-.7
47	621.00	-38.5	-34.4	2643	2691	-14.6	-12.8	-249.6	-278.8	13.8	-11.4	-.5
48	634.00	-39.6	-38.4	2847	2599	-13.9	-14.8	-211.1	-244.4	10.4	-8.4	-.3
49	648.00	-37.6	-39.9	2847	2403	-13.2	-16.6	-171.5	-206.0	7.3	-5.7	-.2
50	662.00	-36.5	-40.9	2847	2203	-12.8	-18.6	-133.9	-166.1	4.7	-3.6	-.1
51	676.00	-35.4	-41.3	2847	2007	-12.4	-20.6	-97.4	-125.2	2.6	-2.0	-.0
PENT	690.00	-62.0	-83.9	5693	3733	-10.9	-22.5	-62.0	-83.9	1.2	-.9	.1

TABLE 7. III HOUSTON CENTER, HOUSTON 100 YEAR WIND
PROJECT 7340 CONFIGURATION A
SCALE = 400 REF. PRESSURE = 45.0
GUST FACTOR = 1.32 STANDARD FLOOR HEIGHT = 13.00
NUMBER OF SIDES = 4 NO. OF FLOORS = 53

SIDE	ANGLE	Z-AXIS
1	0.0	3.730
2	90.0	3.745
3	180.0	3.700
4	270.0	3.105

FLOOR #	LABEL	HEIGHT-FT
1	STRT	22.00
2	MEZZ	14.00
3	2	13.00
4	3	13.00
5	4	13.00
6	5	13.00
7	6	13.00
8	7	13.00
9	8	13.00
10	9	13.00
11	10	13.00
12	11	13.00
13	12	13.00
14	13	13.00
15	14	13.00
16	15	13.00
17	16	13.00
18	17	13.00
19	18	13.00
20	19	13.00
21	20	13.00
22	21	13.00
23	22	13.00
24	23	13.00
25	24	13.00
26	25	13.00
27	26	13.00
28	27	13.00
29	28	13.00
30	29	13.00
31	30	13.00
32	31	13.00
33	32	13.00
34	33	13.00
35	34	13.00
36	35	13.00
37	36	13.00
38	37	13.00
39	38	13.00
40	39	13.00
41	40	13.00
42	41	13.00
43	42	13.00
44	43	13.00
45	44	13.00
46	45	13.00
47	46	13.00
48	47	13.00
49	48	14.00
50	49	14.00
51	50	14.00
52	51	14.00
53	PENT	28.00

APPENDIX A

PRESSURE DATA

Note: Pressure coefficients are defined in Section 4.3.

Pressure tap designation is explained in Figure 3.

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	1	-.286	.109	.080	-.670
0	2	-.253	.100	.066	-.605
0	3	-.390	.129	.027	-.880
0	4	-.196	.090	.106	-.526
0	5	-.174	.089	.112	-.490
0	6	-.114	.095	.204	-.425
0	7	-.082	.112	.332	-.587
0	8	.144	.119	.588	-.217
0	9	-.003	.105	.337	-.392
0	10	-.084	.118	.288	-.606
0	11	-.344	.119	.081	-.776
0	12	-.098	.112	.280	-.474
0	13	-.294	.110	.066	-.692
0	14	-.340	.120	.056	-.816
0	15	-.293	.113	.093	-.730
0	16	-.345	.125	.028	-.997
0	101	-.317	.141	.128	-1.011
0	102	-.316	.150	.169	-1.038
0	103	-.333	.160	.142	-1.115
0	104	-.348	.167	.143	-1.275
0	105	-.332	.137	.282	-.830
0	106	-.328	.151	.344	-.873
0	107	-.343	.157	.209	-.983
0	108	-.414	.169	.196	-1.084
0	109	-.499	.181	.136	-1.271
0	110	-.520	.187	-.031	-1.367
0	111	-.719	.294	-.018	-1.903
0	112	-.324	.145	.132	-.894
0	113	-.216	.174	.369	-1.099
0	114	-.000	.138	.431	-.434
0	115	.087	.141	.551	-.381
0	116	.228	.140	.702	-.257
0	117	.190	.138	.712	-.213
0	118	.151	.153	.635	-.422
0	119	.101	.157	.580	-.433
0	120	-.027	.151	.523	-.556
0	121	-.471	.188	.101	-1.189
0	122	-.330	.127	.138	-.852
0	123	-.232	.109	.174	-.627
0	124	-.262	.106	.075	-.624
0	125	-.314	.154	.192	-1.138
0	126	-.327	.140	.155	-1.007
0	127	-.331	.150	.118	-1.132
0	128	-.334	.155	.131	-1.042
0	129	-.354	.178	.214	-1.384
0	130	-.347	.143	.285	-.962
0	131	-.393	.163	.096	-1.091
0	132	-.507	.172	.039	-1.168
0	133	-.603	.223	.042	-1.552
0	134	-.587	.223	-.015	-1.305
0	135	-.576	.230	-.002	-1.314
0	136	-.481	.154	.119	-1.023
0	137	-.510	.272	.446	-1.706
0	138	.013	.170	.599	-.524
0	139	.272	.161	.819	-.268
0	141	.514	.172	1.152	-.082
0	142	.389	.158	.930	-.071
0	143	.120	.144	.659	-.349
0	144	-.138	.133	.489	-.639
0	145	-.783	.179	-.007	-1.385
0	146	-.744	.194	.079	-1.417
0	147	-.260	.131	.201	-.813
0	148	-.279	.114	.142	-.682
0	149	-.330	.173	.143	-1.202
0	150	-.354	.157	.144	-1.386
0	151	-.344	.161	.175	-1.011
0	152	-.347	.163	.185	-1.062
0	153	-.387	.192	.217	-1.349
0	154	-.381	.164	.104	-1.100
0	155	-.420	.196	.157	-1.441
0	156	-.519	.209	.043	-1.506
0	157	-.517	.208	-.009	-1.412
0	158	-.510	.196	-.024	-1.225
0	159	-.393	.172	.103	-1.077
0	160	-.568	.278	.183	-1.827
0	161	-.010	.170	.540	-.648
0	162	.267	.140	.784	-.244
0	163	.415	.148	.925	-.053
0	164	.342	.154	.928	-.125
0	165	.073	.143	.714	-.427
0	166	-.112	.122	.516	-.525
0	167	-.783	.175	-.140	-1.650
0	168	-.754	.188	.001	-1.695
0	169	-.288	.125	.173	-.855
0	170	-.282	.097	.032	-.724
0	171	-.324	.160	.127	-1.371
0	172	-.309	.150	.156	-1.068
0	173	-.317	.146	.253	-1.115
0	174	-.339	.147	.101	-1.164
0	175	-.384	.180	.144	-1.687
0	176	-.375	.172	.142	-1.298
0	177	-.432	.190	.106	-1.321
0	178	-.452	.176	.065	-1.475
0	179	-.545	.202	-.020	-1.558
0	180	-.534	.203	-.019	-1.573
0	181	-.540	.203	-.034	-1.625
0	182	-.411	.162	.064	-.957
0	183	-.597	.279	.261	-1.944
0	184	-.021	.165	.489	-.604
0	185	.168	.147	.728	-.272
0	186	.352	.140	.846	-.091
0	187	.384	.157	.930	-.076
0	188	.304	.156	.867	-.136
0	189	.060	.143	.580	-.371
0	190	-.151	.124	.465	-.566
0	191	-.737	.185	-.028	-1.625
0	192	-.701	.195	.145	-1.540
0	193	-.305	.120	.106	-.835
0	194	-.305	.104	.015	-.762
0	195	-.337	.158	.111	-1.249
0	196	-.318	.146	.098	-1.048
0	197	-.335	.148	.102	-1.253
0	198	-.310	.137	.097	-.862
0	199	-.355	.163	.173	-1.127
0	200	-.345	.159	.230	-1.032
0	201	-.398	.181	.236	-1.412
0	202	-.530	.192	-.024	-1.255
0	203	-.589	.210	-.021	-1.296
0	204	-.578	.207	-.061	-1.345
0	205	-.480	.177	.023	-1.251
0	206	-.603	.258	.166	-1.542
0	207	-.046	.157	.510	-.511
0	208	.122	.136	.653	-.302
0	209	.280	.150	.894	-.208
0	210	.287	.141	.961	-.175
0	211	.034	.132	.648	-.406
0	212	-.188	.128	.312	-.706
0	213	-.731	.192	.075	-1.625
0	214	-.642	.184	.077	-1.391
0	215	-.347	.127	.061	-.894
0	216	-.357	.105	-.001	-.777
0	217	-.307	.138	.086	-.884
0	218	-.273	.123	.096	-1.088
0	219	-.330	.130	.050	-.880
0	220	-.325	.131	.044	-.850
0	221	-.335	.141	.077	-.916
0	222	-.264	.134	.232	-.827
0	223	-.339	.154	.145	-.932
0	224	-.411	.166	.033	-1.260
0	225	-.548	.190	-.024	-1.337
0	226	-.551	.181	-.007	-1.242
0	227	-.608	.193	-.069	-1.301
0	228	-.462	.154	.044	-1.117
0	229	-.606	.275	.230	-1.778
0	230	-.065	.143	.515	-.450
0	231	.056	.139	.633	-.394
0	232	.194	.131	.686	-.222
0	233	.239	.140	.720	-.214
0	234	.239	.143	.919	-.211
0	235	.021	.143	.706	-.486

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	236	-.161	.136	.381	-.625
0	237	-.676	.221	.145	-1.911
0	238	-.601	.191	.226	-1.321
0	239	-.386	.128	.061	-.989
0	240	-.394	.119	.019	-1.015
0	241	-.328	.117	.020	-.880
0	242	-.318	.121	.044	-.993
0	243	-.335	.129	.010	-.983
0	244	-.338	.123	.011	-.880
0	245	-.298	.110	.032	-.736
0	246	-.280	.117	.085	-.719
0	247	-.273	.124	.114	-.866
0	248	-.432	.163	.060	-1.173
0	249	-.558	.166	-.088	-1.436
0	250	-.559	.176	-.071	-1.533
0	251	-.415	.134	.015	-1.097
0	252	-.536	.226	.131	-1.419
0	253	-.183	.130	.434	-.645
0	254	-.055	.116	.519	-.415
0	255	.053	.094	.404	-.296
0	256	.099	.149	.726	-.359
0	257	-.045	.128	.408	-.478
0	258	-.209	.134	.306	-.705
0	259	-.580	.185	-.009	-1.249
0	260	-.455	.170	.117	-1.159
0	261	-.375	.115	.021	-.783
0	262	-.392	.115	-.032	-.845
0	263	-.289	.103	.100	-.668
0	264	-.294	.105	.110	-.682
0	265	-.328	.120	-.014	-.862
0	266	-.331	.133	-.003	-.981
0	267	-.255	.103	.053	-.647
0	268	-.203	.098	.150	-.572
0	269	-.193	.100	.168	-.630
0	270	-.200	.120	.161	-.777
0	271	-.290	.143	.100	-1.115
0	272	-.360	.147	.028	-1.320
0	273	-.353	.126	.081	-.816
0	274	-.290	.127	.137	-.761
0	275	-.444	.203	.131	-1.225
0	276	-.176	.123	.279	-.622
0	277	-.013	.110	.391	-.367
0	278	.147	.124	.657	-.238
0	279	.076	.149	.527	-.523
0	280	.161	.141	.730	-.198
0	281	.034	.125	.526	-.435
0	282	-.087	.127	.441	-.542
0	283	-.235	.137	.219	-.735
0	284	-.187	.124	.235	-.634
0	285	-.303	.119	.073	-.793
0	286	-.325	.106	.002	-.787
0	301	-.257	.103	.069	-.574
0	302	-.273	.112	.083	-.728
0	303	-.290	.119	.100	-.802
0	304	-.298	.128	.092	-.925
0	305	-.283	.123	.142	-.786
0	306	-.281	.132	.143	-1.034
0	307	-.270	.133	.139	-.936
0	308	-.262	.137	.107	-1.020
0	309	-.264	.131	.134	-.943
0	310	-.272	.109	.115	-.664
0	311	-.278	.111	.113	-.661
0	312	-.323	.120	.057	-.832
0	313	-.283	.106	.080	-.844
0	314	-.302	.120	.085	-1.002
0	315	-.309	.128	.109	-.887
0	316	-.303	.129	.113	-.953
0	317	-.250	.093	.060	-.608
0	318	-.270	.103	.078	-.642
0	319	-.278	.104	.061	-.702
0	320	-.280	.094	.008	-.617
0	321	-.344	.122	.024	-.828
0	322	-.299	.121	.191	-.776
0	323	-.303	.127	.180	-.864
0	324	-.297	.124	.159	-.809
0	325	-.243	.089	.057	-.543
0	326	-.228	.092	.084	-.557
0	327	-.254	.089	.015	-.596
0	328	-.254	.088	.037	-.590
0	329	-.246	.089	.067	-.569
0	330	-.255	.096	.085	-.603
0	331	-.269	.097	.088	-.613
0	332	-.290	.105	.079	-.700
0	333	-.294	.101	.034	-.728
0	334	-.307	.114	.026	-.917
0	335	-.304	.108	.018	-.716
0	336	-.317	.115	.021	-.798
0	337	-.277	.103	.072	-.819
0	338	-.267	.106	.095	-.831
0	339	-.257	.104	.099	-.785
0	340	-.240	.102	.087	-.710
0	341	-.215	.084	.105	-.536
0	342	-.214	.090	.142	-.558
0	343	-.223	.093	.125	-.635
0	344	-.234	.096	.122	-.705
0	345	-.268	.089	-.002	-.615
0	346	-.276	.094	.012	-.640
0	347	-.280	.097	.033	-.643
0	348	-.288	.094	.009	-.656
0	349	-.277	.092	.062	-.596
0	350	-.302	.099	.057	-.629
0	351	-.313	.103	.052	-.638
0	352	-.321	.104	.036	-.676
0	353	-.316	.096	-.019	-.664
0	354	-.339	.109	-.015	-.739
0	355	-.296	.098	.009	-.656
0	356	-.274	.093	-.000	-.618
0	357	-.231	.081	.029	-.540
0	358	-.225	.085	.052	-.534
0	359	-.216	.087	.074	-.545
0	360	-.217	.089	.060	-.536
0	361	-.207	.088	.080	-.596
0	362	-.230	.099	.096	-.696
0	363	-.294	.101	-.000	-.682
0	364	-.303	.100	-.012	-.678
0	365	-.287	.097	.002	-.613
0	366	-.303	.103	.019	-.675
0	367	-.308	.106	.013	-.818
0	368	-.330	.106	.002	-.866
0	369	-.331	.097	-.041	-.680
0	370	-.347	.105	-.031	-.738
0	371	-.336	.106	-.016	-.732
0	372	-.357	.112	-.044	-.772
0	373	-.301	.099	.095	-.611
0	374	-.282	.099	.083	-.601
0	375	-.257	.097	.095	-.576
0	376	-.250	.094	.110	-.578
0	377	-.265	.094	.158	-.608
0	378	-.262	.104	.199	-.620
0	379	-.258	.106	.216	-.646
0	380	-.278	.113	.223	-.694
0	381	-.385	.113	-.058	-.768
0	382	-.384	.122	-.020	-.808
0	383	-.376	.120	-.032	-.781
0	384	-.384	.122	-.036	-.831
0	385	-.392	.112	-.038	-.872
0	386	-.358	.110	.023	-.796
0	387	-.405	.129	.004	-1.062
0	388	-.411	.133	.024	-1.057
0	389	-.412	.111	-.082	-.951
0	390	-.421	.133	-.035	-1.156
0	391	-.354	.111	-.027	-.866
0	392	-.315	.101	.023	-.717
0	393	-.302	.097	.071	-.638
0	394	-.284	.105	.051	-.711
0	395	-.271	.105	.029	-.637
0	396	-.266	.107	.103	-.644
0	397	-.302	.103	.067	-.624
0	398	-.313	.122	.091	-.740
0	399	-.411	.126	-.004	-.870

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
0	400	-.410	.124	-.002	-.856
0	401	-.409	.113	-.057	-.986
0	402	-.409	.128	-.028	-1.100
0	403	-.408	.138	-.006	-1.433
0	404	-.406	.138	-.007	-1.383
0	405	-.223	.238	-.014	-1.088
0	406	-.445	.145	-.004	-1.430
0	407	-.427	.144	.033	-1.060
0	408	-.430	.141	.037	-.951
0	409	-.396	.115	-.042	-.893
0	410	-.351	.113	.022	-.768
0	411	-.315	.107	.025	-.650
0	412	-.297	.101	.039	-.611
0	413	-.307	.095	.031	-.662
0	414	-.262	.101	.043	-.631
0	415	-.287	.105	.106	-.686
0	416	-.296	.112	.119	-.710
0	417	-.443	.105	-.113	-.860
0	418	-.433	.116	-.048	-.902
0	419	-.425	.115	-.060	-.895
0	420	-.435	.119	-.055	-.911
0	421	-.468	.138	.078	-1.138
0	422	-.446	.156	.066	-1.032
0	423	-.071	.128	.338	-.517
0	424	-.437	.160	.144	-1.066
0	425	-.428	.129	-.013	-.974
0	426	-.406	.141	.059	-1.019
0	427	-.364	.123	.039	-.798
0	428	-.341	.116	.024	-.728
0	429	-.346	.099	-.056	-.856
0	430	-.320	.104	-.000	-.751
0	431	-.253	.092	.036	-.607
0	432	-.298	.107	.032	-.682
0	433	-.330	.110	.060	-.790
0	434	-.326	.121	.099	-.806
0	435	-.422	.140	.018	-.917
0	436	-.348	.124	-.012	-.988
0	437	-.462	.124	-.084	-1.071
0	438	-.460	.141	-.032	-1.121
0	439	-.451	.156	.039	-1.372
0	440	-.404	.149	.075	-1.056
0	441	-.383	.137	.022	-.884
0	442	-.340	.157	.382	-1.156
0	443	-.331	.137	.143	-.878
0	444	-.319	.134	.147	-.829
0	445	-.350	.123	.094	-.780
0	446	-.336	.129	.151	-.797
0	447	-.328	.127	.093	-.759
0	448	-.332	.127	.062	-.737
0	449	-.373	.120	-.046	-.998
0	450	-.352	.126	.002	-.974
0	451	-.266	.110	.090	-.869
0	452	-.270	.108	.080	-.798
0	453	-.349	.129	.017	-1.364
0	454	-.342	.124	.056	-.988
0	455	-.285	.122	.095	-.784
0	456	-.272	.111	.223	-.879
0	457	-.278	.102	.027	-.933
0	801	-.206	.087	.060	-.526
0	901	-.374	.127	.031	-1.182
0	902	-.389	.141	.034	-1.379
0	903	-.399	.147	.067	-1.148
0	904	-.388	.131	.049	-.959
0	905	-.377	.133	-.047	-.960
0	906	-.421	.194	.064	-1.409
0	907	-.378	.137	.140	-.979
0	908	-.312	.142	.186	-.879
0	909	-.402	.162	.027	-1.066
0	910	-.401	.155	.133	-1.111
0	911	-.281	.102	.029	-.650
0	912	-.301	.116	.237	-.959
0	913	-.300	.107	.063	-.694
0	914	-.303	.117	.076	-.784
0	915	.071	.124	.577	-.382
0	916	.085	.114	.536	-.295
0	917	-.228	.134	.326	-.754
0	918	-.141	.123	.411	-.532
0	919	-.252	.111	.110	-.675
0	919	-.252	.111	.110	-.675
0	920	-.163	.118	.262	-.620
0	921	-.252	.097	.057	-.639
0	922	.047	.121	.619	-.320
0	923	-.152	.110	.265	-.571
0	924	-.134	.105	.244	-.578
0	925	-.021	.120	.459	-.493
0	926	-.234	.111	.198	-.710
0	927	-.463	.148	-.024	-1.091
0	928	-.310	.116	.066	-.776
0	929	-.295	.102	.041	-.723
10	1	-.295	.106	.017	-.749
10	2	-.268	.100	.046	-.680
10	3	-.388	.132	.029	-.886
10	4	-.217	.096	.140	-.710
10	5	-.185	.095	.190	-.518
10	6	-.130	.100	.228	-.530
10	7	-.101	.114	.263	-.465
10	8	.194	.132	.700	-.277
10	9	.025	.118	.547	-.411
10	10	-.047	.129	.568	-.507
10	11	-.326	.127	.043	-.745
10	12	-.061	.126	.570	-.553
10	13	-.302	.099	-.011	-.626
10	14	-.337	.107	-.025	-.695
10	15	-.312	.117	.076	-.879
10	16	-.368	.125	.015	-.966
10	101	-.299	.127	.085	-.976
10	102	-.301	.136	.071	-1.087
10	103	-.301	.141	.093	-1.126
10	104	-.314	.146	.082	-1.512
10	105	-.303	.118	.084	-.761
10	106	-.287	.127	.135	-.814
10	107	-.267	.131	.168	-.846
10	108	-.316	.141	.126	-1.172
10	109	-.415	.165	.135	-1.311
10	110	-.541	.199	-.036	-1.274
10	111	-1.012	.273	-.253	-2.289
10	112	-.281	.143	.178	-.810
10	113	-.084	.175	.543	-.699
10	114	.094	.161	.598	-.440
10	115	.150	.166	.665	-.415
10	116	.252	.159	.761	-.298
10	117	.178	.152	.642	-.314
10	118	.129	.130	.677	-.275
10	119	.035	.131	.602	-.364
10	120	-.120	.124	.362	-.541
10	121	-.656	.188	-.055	-1.435
10	122	-.440	.143	.002	-1.130
10	123	-.306	.113	.035	-.812
10	124	-.308	.107	.025	-.686
10	125	-.317	.123	.062	-.809
10	126	-.312	.108	.031	-.763
10	127	-.321	.117	.040	-.852
10	128	-.299	.116	.090	-.792
10	129	-.297	.115	.089	-.774
10	130	-.272	.110	.097	-.812
10	131	-.270	.127	.098	-.905
10	132	-.371	.191	.114	-1.183
10	133	-.739	.246	.064	-1.506
10	134	-.782	.159	-.328	-1.531
10	135	-.774	.163	-.298	-1.516
10	136	-.440	.154	.035	-1.068
10	137	-.295	.245	.449	-1.413
10	138	.173	.161	.658	-.399
10	139	.375	.157	.869	-.192
10	141	.506	.170	1.021	-.007
10	142	.328	.146	1.041	-.110
10	143	.043	.135	.570	-.360
10	144	-.192	.131	.296	-.640
10	145	-.782	.200	.044	-1.643
10	146	-.793	.185	-.044	-1.443

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	147	-.308	.151	.103	-1.065
10	148	-.284	.112	.094	-.854
10	149	-.306	.132	.052	-.883
10	150	-.311	.115	.075	-.850
10	151	-.331	.135	.274	-.966
10	152	-.312	.126	.161	-.887
10	153	-.320	.132	.224	-1.018
10	154	-.304	.132	.133	-1.081
10	155	-.338	.180	.216	-1.086
10	156	-.711	.192	-.014	-1.378
10	157	-.762	.165	-.195	-1.589
10	158	-.735	.161	-.213	-1.322
10	159	-.495	.152	-.013	-1.061
10	160	-.400	.296	.402	-1.922
10	161	.093	.184	.672	-.875
10	162	.353	.141	.837	-.057
10	163	.413	.156	.952	.005
10	164	.288	.150	.875	-.154
10	165	.026	.138	.643	-.473
10	166	-.088	.120	.347	-.456
10	167	-.753	.211	-.036	-1.449
10	168	-.738	.215	-.019	-1.402
10	169	-.334	.153	.131	-1.035
10	170	-.240	.103	.097	-.765
10	171	-.312	.120	.145	-.922
10	172	-.296	.111	.138	-.752
10	173	-.315	.122	.106	-.865
10	174	-.217	.100	.147	-.677
10	175	-.292	.113	.315	-.809
10	176	-.268	.119	.194	-.825
10	177	-.285	.153	.169	-.953
10	178	-.301	.200	.156	-1.055
10	179	-.637	.223	.108	-1.385
10	180	-.694	.169	-.171	-1.350
10	181	-.698	.169	-.172	-1.360
10	182	-.368	.145	.177	-.888
10	183	-.434	.302	.465	-1.604
10	184	.095	.173	.694	-.546
10	185	.252	.153	.823	-.262
10	186	.433	.141	.901	-.000
10	187	.388	.158	.944	-.143
10	188	.273	.153	.823	-.296
10	189	.018	.144	.525	-.512
10	190	-.119	.127	.333	-.497
10	191	-.772	.198	-.046	-1.456
10	192	-.749	.207	.072	-1.493
10	193	-.341	.137	.090	-1.044
10	194	-.236	.103	.085	-.672
10	195	-.307	.111	.049	-.790
10	196	-.292	.105	.058	-.636
10	197	-.311	.113	.043	-.759
10	198	-.211	.097	.098	-.538
10	199	-.298	.110	.074	-.714
10	200	-.268	.114	.093	-.752
10	201	-.276	.143	.151	-.930
10	202	-.448	.223	.151	-1.100
10	203	-.712	.196	-.050	-1.815
10	204	-.695	.192	-.063	-1.755
10	205	-.477	.172	.156	-1.105
10	206	-.387	.256	.425	-1.405
10	207	.017	.149	.610	-.460
10	208	.184	.146	.692	-.320
10	209	.282	.134	.750	-.265
10	210	.279	.137	.728	-.156
10	211	-.014	.145	.554	-.508
10	212	-.232	.146	.295	-.780
10	213	-.744	.194	-.026	-1.813
10	214	-.580	.167	.143	-1.239
10	215	-.360	.118	-.004	-.827
10	216	-.365	.110	.135	-.804
10	217	-.319	.108	.007	-.830
10	218	-.217	.099	.143	-.666
10	219	-.335	.113	.091	-.885
10	220	-.329	.112	.104	-.863
10	221	-.318	.111	.132	-.916
10	222	-.183	.104	.163	-.801
10	223	-.282	.135	.118	-.981
10	224	-.332	.176	.310	-1.108
10	225	-.513	.216	.159	-1.333
10	226	-.518	.169	.045	-1.270
10	227	-.648	.188	-.099	-1.457
10	228	-.441	.153	.153	-1.021
10	229	-.462	.270	.505	-1.412
10	230	.043	.131	.513	-.357
10	231	.094	.134	.580	-.289
10	232	.199	.124	.704	-.196
10	233	.218	.127	.697	-.202
10	234	.207	.125	.664	-.161
10	235	-.047	.141	.463	-.526
10	236	-.229	.139	.302	-.743
10	237	-.724	.196	.069	-1.401
10	238	-.652	.200	.066	-1.384
10	239	-.426	.132	.115	-.928
10	240	-.424	.122	.073	-.900
10	241	-.357	.106	.055	-.734
10	242	-.347	.110	.051	-.723
10	243	-.367	.117	.051	-.751
10	244	-.360	.111	.022	-.735
10	245	-.318	.107	.027	-.752
10	246	-.283	.106	.064	-.675
10	247	-.264	.108	.111	-.632
10	248	-.411	.169	.129	-1.127
10	249	-.591	.169	-.033	-1.258
10	250	-.590	.175	-.114	-1.337
10	251	-.427	.134	.088	-1.157
10	252	-.479	.227	.158	-1.479
10	253	-.135	.140	.329	-.729
10	254	-.029	.125	.537	-.468
10	255	.076	.095	.442	-.214
10	256	.047	.141	.561	-.438
10	257	-.116	.130	.373	-.495
10	258	-.280	.143	.211	-.796
10	259	-.650	.184	-.057	-1.363
10	260	-.510	.168	.001	-1.142
10	261	-.409	.122	.022	-.860
10	262	-.431	.122	-.033	-.876
10	263	-.333	.113	.030	-.802
10	264	-.329	.112	.018	-.839
10	265	-.376	.117	.002	-.808
10	266	-.377	.127	.030	-.978
10	267	-.290	.106	.064	-.674
10	268	-.212	.095	.129	-.543
10	269	-.188	.102	.116	-.547
10	270	-.172	.119	.165	-.641
10	271	-.248	.146	.168	-.925
10	272	-.317	.149	.134	-1.028
10	273	-.346	.129	.080	-.798
10	274	-.279	.131	.252	-.744
10	275	-.424	.205	.181	-1.289
10	276	-.161	.130	.323	-.611
10	277	.001	.113	.433	-.411
10	278	.142	.120	.731	-.228
10	279	.099	.150	.657	-.669
10	280	.137	.139	.686	-.280
10	281	.013	.130	.520	-.436
10	282	-.115	.136	.503	-.592
10	283	-.283	.142	.253	-.809
10	284	-.225	.131	.284	-.664
10	285	-.326	.119	.106	-.850
10	286	-.336	.103	-.034	-.735
10	301	-.273	.102	.042	-.657
10	302	-.298	.115	.072	-.966
10	303	-.295	.114	.047	-.917
10	304	-.310	.115	.059	-.867
10	305	-.290	.105	.077	-.714
10	306	-.290	.111	.068	-.731
10	307	-.255	.108	.097	-.770
10	308	-.266	.114	.084	-.725
10	309	-.237	.103	.112	-.631
10	310	-.285	.098	.042	-.614

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	311	-.275	.098	.039	-.603
10	312	-.299	.105	.006	-.692
10	313	-.260	.100	.060	-.595
10	314	-.286	.111	.053	-.688
10	315	-.273	.115	.070	-.694
10	316	-.282	.115	.068	-.721
10	317	-.253	.096	.086	-.625
10	318	-.280	.104	.071	-.666
10	319	-.275	.102	.078	-.635
10	320	-.280	.089	-.010	-.549
10	321	-.306	.102	-.021	-.698
10	322	-.311	.109	.023	-.732
10	323	-.296	.111	.039	-.719
10	324	-.303	.112	.061	-.743
10	325	-.271	.093	.007	-.629
10	326	-.279	.099	.044	-.670
10	327	-.276	.098	.087	-.663
10	328	-.288	.097	.051	-.659
10	329	-.260	.089	.038	-.597
10	330	-.283	.097	.039	-.639
10	331	-.275	.094	.048	-.617
10	332	-.302	.100	.034	-.707
10	333	-.304	.096	-.019	-.696
10	334	-.328	.105	-.050	-.731
10	335	-.302	.101	.067	-.713
10	336	-.317	.104	-.022	-.725
10	337	-.274	.086	-.011	-.568
10	338	-.286	.092	.019	-.588
10	339	-.266	.090	.033	-.546
10	340	-.274	.092	.022	-.562
10	341	-.260	.089	.029	-.565
10	342	-.273	.096	.037	-.627
10	343	-.257	.097	.043	-.635
10	344	-.278	.100	.024	-.680
10	345	-.274	.096	.022	-.898
10	346	-.288	.103	.028	-.841
10	347	-.283	.096	.015	-.596
10	348	-.295	.103	.037	-.691
10	349	-.291	.089	.011	-.614
10	350	-.320	.096	.015	-.699
10	351	-.313	.096	-.026	-.668
10	352	-.333	.099	-.023	-.687
10	353	-.305	.095	.059	-.653
10	354	-.323	.106	.049	-.723
10	355	-.274	.100	.075	-.662
10	356	-.276	.099	.053	-.635
10	357	-.262	.083	.063	-.539
10	358	-.275	.090	.033	-.596
10	359	-.255	.091	.058	-.601
10	360	-.268	.095	.051	-.633
10	361	-.252	.095	.076	-.695
10	362	-.272	.105	.086	-.746
10	363	-.286	.102	.032	-.693
10	364	-.305	.102	.006	-.718
10	365	-.298	.097	.038	-.644
10	366	-.317	.105	.046	-.697
10	367	-.309	.106	.081	-.677
10	368	-.342	.109	.052	-.773
10	369	-.350	.093	-.053	-.688
10	370	-.366	.104	-.037	-.792
10	371	-.333	.098	-.026	-.685
10	372	-.360	.105	-.050	-.776
10	373	-.302	.102	.042	-.678
10	374	-.291	.106	.060	-.710
10	375	-.259	.102	.075	-.690
10	376	-.271	.102	.047	-.702
10	377	-.328	.092	.050	-.632
10	378	-.297	.099	.091	-.635
10	379	-.289	.098	.102	-.635
10	380	-.290	.100	.086	-.632
10	381	-.406	.098	-.119	-.867
10	382	-.374	.104	-.031	-.842
10	383	-.369	.101	-.022	-.792
10	384	-.370	.102	-.033	-.755
10	385	-.429	.104	-.082	-.765
10	386	-.355	.107	-.011	-.885
10	387	-.415	.118	-.042	-.920
10	388	-.413	.121	-.033	-1.022
10	389	-.460	.115	-.110	-.904
10	390	-.435	.133	-.036	-.958
10	391	-.368	.113	.008	-.774
10	392	-.324	.105	.046	-.649
10	393	-.360	.095	-.003	-.671
10	394	-.312	.101	.074	-.636
10	395	-.302	.100	.115	-.610
10	396	-.290	.100	.125	-.596
10	397	-.347	.096	-.032	-.740
10	398	-.310	.106	.037	-.809
10	399	-.411	.112	.029	-.827
10	400	-.400	.109	.027	-.804
10	401	-.473	.114	-.043	-.834
10	402	-.433	.124	.016	-.846
10	403	-.434	.133	-.001	-1.045
10	404	-.432	.132	-.007	-.927
10	405	-.499	.122	-.090	-1.136
10	406	-.452	.140	.085	-1.397
10	407	-.425	.124	.004	-1.069
10	408	-.426	.128	.015	-.953
10	409	-.463	.133	.031	-.922
10	410	-.373	.128	.133	-.820
10	411	-.340	.123	.160	-.734
10	412	-.318	.116	.165	-.722
10	413	-.383	.099	-.041	-.778
10	414	-.279	.096	.015	-.611
10	415	-.316	.107	.047	-.757
10	416	-.315	.110	.066	-.867
10	417	-.504	.112	-.138	-.842
10	418	-.442	.119	-.042	-.807
10	419	-.434	.118	-.045	-.801
10	420	-.434	.119	-.047	-.881
10	421	-.510	.135	-.121	-1.381
10	422	-.441	.148	-.004	-1.165
10	423	-.078	.126	.343	-.597
10	424	-.438	.153	.033	-1.170
10	425	-.503	.120	-.154	-.920
10	426	-.434	.135	-.037	-.896
10	427	-.384	.117	-.051	-.792
10	428	-.352	.109	-.056	-.760
10	429	-.420	.104	-.018	-.809
10	430	-.343	.106	.062	-.685
10	431	-.293	.093	.001	-.612
10	432	-.322	.106	.058	-.689
10	433	-.412	.108	-.066	-.740
10	434	-.347	.115	.067	-.696
10	435	-.428	.136	-.067	-1.098
10	436	-.382	.127	-.023	-.933
10	437	-.512	.132	-.107	-1.160
10	438	-.442	.144	-.008	-1.057
10	439	-.436	.150	.027	-1.148
10	440	-.399	.141	.111	-1.112
10	441	-.446	.135	-.025	-1.214
10	442	-.326	.155	.280	-1.173
10	443	-.322	.129	.080	-.874
10	444	-.302	.128	.098	-.834
10	445	-.393	.122	.011	-.910
10	446	-.327	.124	.056	-.759
10	447	-.323	.119	.074	-.842
10	448	-.346	.123	.231	-.870
10	449	-.444	.098	-.110	-.770
10	450	-.356	.102	-.011	-.687
10	451	-.315	.109	.113	-.693
10	452	-.319	.107	.056	-.712
10	453	-.354	.118	.015	-1.058
10	454	-.365	.122	.044	-.926
10	455	-.330	.145	.138	-1.121
10	456	-.310	.108	.041	-.790
10	457	-.306	.105	.043	-.988
10	801	-.216	.092	.179	-.559
10	901	-.411	.133	.003	-.876
10	902	-.427	.148	.018	-.978

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
10	903	-.443	.155	.085	-1.121
10	904	-.433	.143	.030	-.933
10	905	-.395	.124	-.045	-.923
10	906	-.410	.154	-.025	-1.377
10	907	-.415	.144	.258	-1.040
10	908	-.301	.147	.266	-.869
10	909	-.413	.145	-.010	-1.223
10	910	-.421	.156	.161	-1.059
10	911	-.312	.108	.085	-.642
10	912	-.318	.114	.095	-.841
10	913	-.319	.104	-.001	-.718
10	914	-.320	.114	.014	-.732
10	915	.083	.137	.645	-.423
10	916	.097	.126	.609	-.426
10	917	-.168	.145	.406	-.654
10	918	-.099	.123	.338	-.492
10	919	-.253	.112	.196	-.660
10	919	-.253	.112	.196	-.660
10	920	-.125	.113	.296	-.595
10	921	-.262	.095	.047	-.658
10	922	.053	.126	.662	-.365
10	923	-.159	.104	.236	-.526
10	924	-.143	.099	.220	-.483
10	925	-.035	.129	.456	-.425
10	926	-.261	.109	.199	-.672
10	927	-.516	.148	-.030	-1.392
10	928	-.372	.111	-.013	-.757
10	929	-.316	.107	.004	-.792
20	1	-.270	.100	.055	-.599
20	2	-.222	.099	.119	-.619
20	3	-.267	.117	.094	-.778
20	4	-.144	.088	.157	-.439
20	5	-.123	.101	.209	-.450
20	6	-.104	.111	.256	-.476
20	7	-.106	.127	.299	-.656
20	8	.184	.128	.687	-.171
20	9	.009	.108	.421	-.371
20	10	-.051	.115	.358	-.447
20	11	-.300	.111	.075	-.692
20	12	-.080	.118	.373	-.489
20	13	-.319	.101	.024	-.705
20	14	-.387	.112	-.000	-.772
20	15	-.324	.119	.008	-.765
20	16	-.377	.119	-.019	-.883
20	101	-.293	.103	.035	-.733
20	102	-.312	.109	.024	-.779
20	103	-.287	.107	.061	-.740
20	104	-.307	.110	.046	-.779
20	105	-.272	.103	.046	-.597
20	106	-.259	.110	.103	-.605
20	107	-.197	.107	.134	-.636
20	108	-.215	.106	.161	-.611
20	109	-.254	.140	.173	-.953
20	110	-.526	.184	.023	-1.236
20	111	-.634	.218	-.100	-1.725
20	112	-.081	.158	.382	-.692
20	113	.117	.185	.715	-.493
20	114	.139	.148	.635	-.347
20	115	.150	.156	.716	-.372
20	116	.204	.147	.695	-.363
20	117	.106	.144	.638	-.433
20	118	.051	.120	.427	-.390
20	119	-.060	.122	.341	-.574
20	120	-.186	.116	.197	-.673
20	121	-.607	.228	-.015	-1.691
20	122	-.532	.172	.053	-1.252
20	123	-.426	.153	.088	-1.300
20	124	-.366	.141	.119	-1.023
20	125	-.319	.114	.084	-.772
20	126	-.307	.099	.039	-.641
20	127	-.323	.106	.042	-.679
20	128	-.284	.103	.063	-.639
20	129	-.283	.106	.074	-.642
20	130	-.223	.095	.070	-.507
20	131	-.185	.103	.139	-.548
20	132	-.136	.114	.251	-.645
20	133	-.323	.271	.327	-1.226
20	134	-.557	.184	.221	-1.184
20	135	-.575	.187	.214	-1.220
20	136	-.181	.171	.501	-.833
20	137	.117	.204	.716	-.844
20	138	.373	.167	.939	-.198
20	139	.457	.164	1.017	-.034
20	141	.439	.155	1.002	-.048
20	142	.256	.138	.718	-.290
20	143	-.012	.136	.390	-.533
20	144	-.185	.147	.234	-.651
20	145	-.587	.269	.037	-1.491
20	146	-.657	.274	-.029	-1.543
20	147	-.415	.175	.135	-1.187
20	148	-.351	.148	.122	-1.163
20	149	-.334	.114	.016	-.779
20	150	-.310	.098	-.004	-.698
20	151	-.324	.108	.010	-.782
20	152	-.283	.101	.021	-.692
20	153	-.282	.103	.040	-.671
20	154	-.238	.091	.046	-.590
20	155	-.208	.106	.156	-.597
20	156	-.349	.265	.219	-1.253
20	157	-.572	.197	.058	-1.362
20	158	-.555	.160	-.081	-1.218
20	159	-.271	.160	.231	-.879
20	160	.039	.225	.646	-1.102
20	161	.297	.177	.907	-.417
20	162	.398	.157	.904	-.079
20	163	.427	.159	.938	-.103
20	164	.221	.142	.700	-.280
20	165	-.009	.132	.446	-.497
20	166	-.164	.133	.326	-.588
20	167	-.570	.268	-.015	-1.541
20	168	-.574	.271	-.016	-1.664
20	169	-.409	.153	.107	-1.018
20	170	-.388	.127	.005	-.929
20	171	-.328	.104	.079	-.691
20	172	-.323	.102	.081	-.671
20	173	-.320	.105	.090	-.667
20	174	-.339	.096	.018	-.677
20	175	-.296	.097	.083	-.628
20	176	-.254	.097	.133	-.606
20	177	-.202	.104	.173	-.622
20	178	-.171	.103	.180	-.647
20	179	-.306	.232	.299	-1.099
20	180	-.527	.195	.268	-1.317
20	181	-.525	.189	.170	-1.319
20	182	-.228	.175	.435	-.885
20	183	-.020	.240	.756	-1.130
20	184	.256	.172	.836	-.270
20	185	.326	.161	.934	-.184
20	186	.372	.141	.849	-.118
20	187	.334	.145	.824	-.122
20	188	.188	.141	.793	-.255
20	189	-.044	.133	.517	-.548
20	190	-.246	.134	.241	-.718
20	191	-.616	.253	-.093	-1.595
20	192	-.616	.253	-.087	-1.507
20	193	-.423	.151	.001	-1.027
20	194	-.424	.130	.148	-1.072
20	195	-.360	.105	-.053	-.741
20	196	-.353	.103	-.061	-.723
20	197	-.351	.107	-.050	-.745
20	198	-.342	.103	.013	-.725
20	199	-.303	.105	.057	-.685
20	200	-.256	.102	.081	-.610
20	201	-.202	.104	.149	-.532
20	202	-.278	.214	.197	-1.174
20	203	-.483	.207	.217	-1.434
20	204	-.485	.197	.161	-1.392
20	205	-.232	.186	.357	-1.022
20	206	-.053	.254	.676	-1.191
20	207	.187	.169	.751	-.414

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	208	.211	.159	.903	-.235
20	209	.268	.150	.891	-.170
20	210	.095	.127	.567	-.308
20	211	-.097	.122	.386	-.528
20	212	-.282	.131	.209	-.795
20	213	-.640	.231	-.023	-1.516
20	214	-.691	.226	-.091	-1.612
20	215	-.454	.148	-.015	-1.097
20	216	-.382	.117	-.051	-.882
20	217	-.380	.127	.009	-1.233
20	218	-.387	.114	-.040	-.916
20	219	-.366	.116	.035	-1.010
20	220	-.361	.116	.049	-.995
20	221	-.319	.108	.073	-.752
20	222	-.289	.098	.082	-.605
20	223	-.219	.103	.183	-.616
20	224	-.186	.117	.224	-.746
20	225	-.242	.190	.257	-1.106
20	226	-.448	.188	.102	-1.352
20	227	-.448	.185	.073	-1.420
20	228	-.237	.179	.410	-.927
20	229	-.128	.274	.600	-1.245
20	230	.048	.150	.607	-.430
20	231	.117	.142	.735	-.335
20	232	.150	.128	.681	-.256
20	233	.128	.126	.643	-.269
20	234	.022	.131	.590	-.457
20	235	-.132	.137	.364	-.608
20	236	-.304	.134	.144	-.721
20	237	-.708	.206	-.117	-1.551
20	238	-.699	.189	-.050	-1.363
20	239	-.484	.137	-.093	-1.071
20	240	-.452	.121	-.095	-.965
20	241	-.390	.113	-.045	-.979
20	242	-.373	.115	-.018	-.930
20	243	-.390	.119	-.008	-.938
20	244	-.373	.112	-.022	-.908
20	245	-.322	.111	.020	-.776
20	246	-.273	.098	.086	-.619
20	247	-.233	.096	.123	-.567
20	248	-.227	.136	.216	-.876
20	249	-.367	.163	.209	-.991
20	250	-.372	.159	.180	-1.085
20	251	-.232	.155	.372	-.790
20	252	-.164	.214	.490	-.995
20	253	-.011	.138	.527	-.483
20	254	.038	.130	.613	-.379
20	255	.072	.099	.453	-.234
20	256	-.047	.122	.556	-.467
20	257	-.231	.119	.311	-.674
20	258	-.395	.137	.232	-.921
20	259	-.740	.167	-.128	-1.489
20	260	-.561	.173	-.071	-1.275
20	261	-.425	.118	-.073	-1.000
20	262	-.426	.112	-.053	-.897
20	263	-.364	.118	.056	-.862
20	264	-.350	.112	.066	-.776
20	265	-.408	.115	-.006	-.942
20	266	-.394	.116	-.001	-.897
20	267	-.303	.102	.055	-.734
20	268	-.190	.103	.271	-.581
20	269	-.162	.095	.145	-.503
20	270	-.121	.105	.223	-.450
20	271	-.157	.122	.257	-.548
20	272	-.199	.131	.226	-.706
20	273	-.212	.121	.247	-.697
20	274	-.149	.125	.269	-.597
20	275	-.194	.178	.271	-.980
20	276	-.045	.127	.427	-.488
20	277	.027	.113	.412	-.515
20	278	.096	.115	.576	-.347
20	279	.090	.134	.627	-.441
20	280	.021	.130	.552	-.410
20	281	-.045	.135	.489	-.515
20	282	-.171	.146	.397	-.652
20	283	-.348	.149	.203	-.891
20	284	-.282	.132	.205	-.679
20	285	-.348	.119	.033	-.827
20	286	-.362	.114	-.016	-.828
20	301	-.339	.114	-.005	-.909
20	302	-.343	.124	.018	-.902
20	303	-.317	.119	.030	-1.058
20	304	-.334	.116	.018	-.854
20	305	-.320	.102	.003	-.678
20	306	-.287	.107	.086	-.648
20	307	-.247	.101	.075	-.628
20	308	-.265	.104	.068	-.629
20	309	-.278	.100	.079	-.629
20	310	-.310	.103	.049	-.661
20	311	-.282	.101	.061	-.620
20	312	-.326	.118	.095	-.767
20	313	-.321	.100	-.037	-.710
20	314	-.316	.107	-.005	-.739
20	315	-.281	.108	.034	-.693
20	316	-.296	.108	.010	-.713
20	317	-.329	.096	-.020	-.689
20	318	-.326	.102	.001	-.707
20	319	-.299	.098	.006	-.680
20	320	-.289	.091	.034	-.586
20	321	-.344	.114	.038	-.732
20	322	-.320	.101	.032	-.742
20	323	-.287	.101	.052	-.700
20	324	-.297	.100	.037	-.710
20	325	-.317	.097	-.029	-.763
20	326	-.289	.101	.036	-.744
20	327	-.283	.110	.034	-.735
20	328	-.296	.106	.004	-.677
20	329	-.328	.101	-.025	-.686
20	330	-.313	.107	.003	-.701
20	331	-.287	.102	.013	-.695
20	332	-.319	.105	-.010	-.694
20	333	-.361	.096	-.073	-.683
20	334	-.344	.104	-.016	-.722
20	335	-.297	.099	.034	-.632
20	336	-.316	.102	.024	-.720
20	337	-.355	.090	-.049	-.690
20	338	-.325	.096	-.018	-.688
20	339	-.286	.092	-.007	-.617
20	340	-.299	.094	-.006	-.641
20	341	-.333	.097	.008	-.638
20	342	-.302	.102	.058	-.626
20	343	-.268	.101	.107	-.585
20	344	-.293	.102	.087	-.615
20	345	-.365	.100	-.001	-.687
20	346	-.331	.105	.069	-.652
20	347	-.303	.106	.023	-.678
20	348	-.327	.103	.068	-.669
20	349	-.375	.095	-.124	-.710
20	350	-.357	.101	-.013	-.709
20	351	-.337	.103	-.019	-.720
20	352	-.366	.107	-.027	-.787
20	353	-.378	.101	-.054	-.763
20	354	-.336	.109	.007	-.761
20	355	-.282	.103	.071	-.660
20	356	-.295	.102	.034	-.641
20	357	-.349	.090	-.034	-.715
20	358	-.312	.096	.032	-.714
20	359	-.275	.093	.060	-.675
20	360	-.292	.098	.089	-.706
20	361	-.336	.098	-.034	-.727
20	362	-.303	.104	.013	-.727
20	363	-.300	.109	.070	-.681
20	364	-.320	.109	.024	-.677
20	365	-.374	.097	-.058	-.795
20	366	-.336	.103	.007	-.761
20	367	-.309	.102	.040	-.688
20	368	-.345	.106	-.019	-.776
20	369	-.445	.109	-.034	-.911
20	370	-.408	.118	.036	-.908
20	371	-.350	.110	.057	-.838

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
20	372	-.372	.116	.068	-.858
20	373	-.394	.093	-.039	-.777
20	374	-.333	.095	-.027	-.699
20	375	-.291	.091	-.004	-.662
20	376	-.312	.090	.001	-.657
20	377	-.348	.099	-.031	-.667
20	378	-.313	.105	.041	-.680
20	379	-.307	.103	.038	-.665
20	380	-.315	.103	.037	-.665
20	381	-.429	.108	-.023	-.899
20	382	-.389	.112	.007	-.843
20	383	-.386	.109	-.009	-.796
20	384	-.396	.110	-.038	-.798
20	385	-.452	.112	-.103	-.879
20	386	-.371	.109	.006	-.737
20	387	-.438	.124	-.055	-1.029
20	388	-.449	.129	-.071	-1.266
20	389	-.480	.113	-.095	-.954
20	390	-.446	.129	-.045	-1.036
20	391	-.393	.114	-.045	-.828
20	392	-.367	.107	.001	-.786
20	393	-.399	.107	-.032	-.750
20	394	-.347	.111	.042	-.726
20	395	-.334	.109	.051	-.710
20	396	-.333	.110	.069	-.730
20	397	-.373	.105	-.036	-.771
20	398	-.333	.111	.051	-.752
20	399	-.422	.124	-.039	-.916
20	400	-.422	.121	-.047	-.911
20	401	-.483	.123	-.095	-.928
20	402	-.439	.130	-.028	-.927
20	403	-.439	.131	-.037	-.911
20	404	-.455	.132	-.077	-.970
20	405	-.539	.127	-.142	-1.200
20	406	-.496	.141	-.073	-1.247
20	407	-.468	.131	-.070	-1.065
20	408	-.476	.139	-.062	-1.169
20	409	-.483	.121	-.039	-.883
20	410	-.402	.119	.090	-.803
20	411	-.370	.114	.101	-.782
20	412	-.360	.107	.058	-.757
20	413	-.407	.099	-.065	-.733
20	414	-.324	.109	.069	-.708
20	415	-.342	.103	.017	-.698
20	416	-.353	.105	-.013	-.687
20	417	-.527	.122	-.114	-.917
20	418	-.472	.128	-.046	-.887
20	419	-.460	.127	-.045	-.891
20	420	-.472	.126	-.104	-.909
20	421	-.526	.132	-.151	-1.071
20	422	-.480	.149	-.063	-1.165
20	423	-.110	.126	.239	-.699
20	424	-.487	.154	-.080	-1.292
20	425	-.539	.129	-.131	-1.171
20	426	-.476	.138	-.068	-1.185
20	427	-.435	.125	-.044	-1.067
20	428	-.421	.121	-.066	-.986
20	429	-.457	.108	-.035	-.895
20	430	-.392	.107	-.001	-.831
20	431	-.340	.102	-.045	-.844
20	432	-.368	.108	-.025	-.731
20	433	-.423	.115	-.079	-.844
20	434	-.380	.121	-.027	-.834
20	435	-.444	.136	-.050	-1.424
20	436	-.418	.141	.057	-1.097
20	437	-.502	.130	-.144	-1.115
20	438	-.451	.142	-.061	-1.303
20	439	-.439	.140	-.045	-1.001
20	440	-.412	.133	.130	-.943
20	441	-.416	.135	.112	-.975
20	442	-.323	.150	.217	-.893
20	443	-.336	.137	.119	-.872
20	444	-.335	.137	.058	-.810
20	445	-.395	.137	.073	-.922
20	446	-.352	.133	.083	-.859
20	447	-.343	.128	.099	-1.059
20	448	-.407	.134	-.000	-1.175
20	449	-.504	.138	-.068	-1.153
20	450	-.437	.142	.055	-1.171
20	451	-.363	.147	.021	-1.252
20	452	-.361	.139	.008	-1.225
20	453	-.389	.127	-.054	-1.066
20	454	-.401	.132	-.042	-1.081
20	455	-.390	.159	.101	-1.267
20	456	-.337	.128	.082	-.883
20	457	-.321	.129	.058	-.914
20	801	-.198	.094	.093	-.531
20	901	-.464	.139	-.062	-1.006
20	902	-.476	.153	-.017	-1.249
20	903	-.466	.154	.014	-1.145
20	904	-.462	.140	.054	-.907
20	905	-.411	.135	.053	-.975
20	906	-.426	.156	.164	-1.411
20	907	-.354	.141	.057	-1.117
20	908	-.312	.139	.123	-.920
20	909	-.444	.149	.180	-1.142
20	910	-.428	.142	.135	-.951
20	911	-.327	.103	.062	-.661
20	912	-.318	.104	.066	-.665
20	913	-.333	.098	.023	-.637
20	914	-.335	.107	.037	-.759
20	915	-.001	.117	.483	-.408
20	916	.054	.108	.447	-.297
20	917	-.093	.132	.426	-.497
20	918	-.082	.113	.318	-.509
20	919	-.199	.111	.140	-.685
20	919	-.199	.111	.140	-.685
20	920	-.101	.107	.263	-.503
20	921	-.217	.092	.103	-.557
20	922	-.016	.117	.439	-.447
20	923	-.125	.106	.313	-.482
20	924	-.112	.107	.287	-.468
20	925	-.093	.122	.346	-.543
20	926	-.228	.108	.158	-.637
20	927	-.501	.131	-.039	-1.074
20	928	-.368	.117	.040	-.882
20	929	-.301	.111	.035	-.831
30	1	-.232	.108	.101	-.670
30	2	-.153	.103	.197	-.562
30	3	-.151	.107	.232	-.590
30	4	-.060	.089	.252	-.390
30	5	-.061	.099	.309	-.385
30	6	-.044	.109	.372	-.398
30	7	-.072	.132	.432	-.462
30	8	.192	.135	.739	-.195
30	9	-.010	.102	.369	-.328
30	10	-.077	.107	.311	-.426
30	11	-.309	.104	.083	-.702
30	12	-.107	.111	.289	-.444
30	13	-.336	.110	.099	-.731
30	14	-.433	.128	-.034	-.903
30	15	-.360	.140	.048	-1.302
30	16	-.402	.136	-.012	-1.271
30	101	-.348	.115	.042	-.782
30	102	-.364	.121	.037	-.775
30	103	-.331	.118	.084	-.764
30	104	-.355	.121	.067	-.775
30	105	-.298	.111	.084	-.621
30	106	-.261	.118	.121	-.594
30	107	-.166	.116	.212	-.502
30	108	-.161	.111	.222	-.628
30	109	-.149	.131	.246	-.772
30	110	-.296	.191	.224	-1.027
30	111	-.361	.185	.150	-1.079
30	112	.073	.152	.561	-.575
30	113	.228	.165	.808	-.374
30	114	.119	.145	.619	-.369
30	115	.118	.152	.654	-.384
30	116	.140	.140	.602	-.310
30	117	.029	.133	.465	-.411

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	118	-.041	.121	.366	-.433
30	119	-.130	.120	.328	-.528
30	120	-.200	.109	.208	-.601
30	121	-.440	.147	.009	-1.409
30	122	-.458	.134	-.084	-1.111
30	123	-.449	.143	-.007	-1.076
30	124	-.381	.136	.063	-.890
30	125	-.346	.102	.045	-.761
30	126	-.347	.111	.055	-.778
30	127	-.354	.117	.051	-.829
30	128	-.304	.114	.090	-.763
30	129	-.276	.116	.152	-.663
30	130	-.209	.091	.075	-.504
30	131	-.125	.100	.212	-.452
30	132	-.005	.112	.413	-.471
30	133	.020	.156	.469	-.851
30	134	-.218	.197	.343	-.912
30	135	-.241	.196	.369	-.878
30	136	.116	.181	.696	-.522
30	137	.350	.191	1.035	-.314
30	138	.433	.160	.976	-.147
30	139	.448	.166	1.072	-.179
30	141	.340	.148	.881	-.196
30	142	.163	.121	.549	-.267
30	143	-.048	.117	.324	-.456
30	144	-.153	.113	.196	-.618
30	145	-.383	.155	-.005	-1.411
30	146	-.394	.138	-.066	-1.487
30	147	-.405	.129	-.016	-1.084
30	148	-.366	.129	.022	-1.016
30	149	-.367	.107	.025	-.826
30	150	-.353	.099	-.042	-.743
30	151	-.355	.108	-.022	-.780
30	152	-.303	.102	.008	-.696
30	153	-.278	.102	.025	-.662
30	154	-.226	.096	.084	-.564
30	155	-.142	.110	.222	-.525
30	156	.004	.176	.509	-.816
30	157	-.267	.214	.510	-1.126
30	158	-.228	.192	.358	-.895
30	159	.025	.180	.585	-.467
30	160	.308	.174	.770	-.337
30	161	.388	.163	.871	-.110
30	162	.439	.141	.883	.005
30	163	.418	.142	.867	-.020
30	164	.165	.123	.684	-.193
30	165	-.034	.112	.402	-.391
30	166	-.183	.103	.225	-.693
30	167	-.416	.145	.040	-1.443
30	168	-.417	.149	.047	-1.444
30	169	-.402	.124	.045	-1.063
30	170	-.415	.121	-.060	-.865
30	171	-.367	.106	-.014	-.723
30	172	-.362	.104	-.011	-.722
30	173	-.354	.107	.016	-.721
30	174	-.389	.101	-.053	-.705
30	175	-.302	.101	.045	-.625
30	176	-.228	.102	.134	-.551
30	177	-.135	.108	.240	-.490
30	178	-.061	.105	.288	-.529
30	179	-.012	.157	.451	-.942
30	180	-.201	.201	.499	-.862
30	181	-.212	.191	.467	-.854
30	182	.032	.169	.581	-.547
30	183	.251	.180	.815	-.332
30	184	.367	.160	.992	-.175
30	185	.382	.158	.941	-.149
30	186	.358	.145	.931	-.137
30	187	.294	.140	.797	-.203
30	188	.136	.126	.572	-.338
30	189	-.071	.118	.316	-.518
30	190	-.242	.115	.137	-.726
30	191	-.463	.183	-.068	-1.508
30	192	-.465	.184	-.059	-1.523
30	193	-.418	.139	.049	-1.034
30	194	-.422	.119	-.011	-1.023
30	195	-.364	.108	.051	-.787
30	196	-.357	.106	.057	-.743
30	197	-.353	.108	.078	-.758
30	198	-.397	.103	-.053	-.784
30	199	-.322	.105	.055	-.723
30	200	-.245	.105	.165	-.644
30	201	-.149	.110	.294	-.561
30	202	-.077	.145	.325	-.853
30	203	-.259	.204	.395	-1.094
30	204	-.266	.191	.297	-1.088
30	205	-.019	.170	.659	-.689
30	206	.186	.167	.668	-.564
30	207	.317	.144	.757	-.153
30	208	.323	.150	.904	-.085
30	209	.314	.137	.798	-.143
30	210	.077	.117	.495	-.297
30	211	-.109	.110	.265	-.535
30	212	-.275	.117	.106	-.768
30	213	-.536	.172	-.042	-1.622
30	214	-.534	.168	-.096	-1.270
30	215	-.451	.132	.074	-.983
30	216	-.435	.131	-.026	-.965
30	217	-.390	.128	-.031	-1.786
30	218	-.418	.115	-.015	-.933
30	219	-.381	.117	.040	-.807
30	220	-.375	.116	.045	-.783
30	221	-.313	.108	.106	-.704
30	222	-.292	.098	.046	-.702
30	223	-.181	.102	.173	-.631
30	224	-.104	.103	.277	-.474
30	225	-.078	.129	.409	-.826
30	226	-.311	.182	.286	-1.032
30	227	-.300	.179	.325	-1.015
30	228	-.070	.147	.416	-.522
30	229	.110	.171	.733	-.560
30	230	.207	.137	.675	-.290
30	231	.237	.143	.722	-.255
30	232	.221	.133	.672	-.194
30	233	.148	.122	.605	-.228
30	234	-.013	.120	.419	-.387
30	235	-.163	.118	.262	-.622
30	236	-.322	.120	.065	-.722
30	237	-.637	.205	-.140	-1.625
30	238	-.660	.189	-.126	-1.390
30	239	-.534	.143	-.122	-1.132
30	240	-.482	.134	-.073	-1.007
30	241	-.408	.109	.040	-.979
30	242	-.391	.110	.082	-.873
30	243	-.411	.112	.073	-.917
30	244	-.384	.105	.060	-.856
30	245	-.325	.106	-.012	-.698
30	246	-.247	.105	.079	-.594
30	247	-.192	.104	.139	-.553
30	248	-.083	.113	.285	-.511
30	249	-.239	.145	.218	-.789
30	250	-.251	.144	.199	-.784
30	251	-.081	.129	.397	-.461
30	252	.063	.146	.649	-.425
30	253	.144	.140	.671	-.331
30	254	.155	.138	.701	-.306
30	255	.160	.118	.642	-.213
30	256	-.064	.101	.307	-.429
30	257	-.271	.108	.091	-.643
30	258	-.448	.130	-.038	-.952
30	259	-.775	.193	-.264	-1.720
30	260	-.694	.185	-.175	-1.390
30	261	-.508	.141	-.052	-1.165
30	262	-.464	.128	-.070	-1.108
30	263	-.366	.120	.060	-.869
30	264	-.353	.117	.063	-.804
30	265	-.423	.134	-.038	-1.177
30	266	-.393	.129	-.008	-1.109
30	267	-.391	.114	.080	-.759
30	268	-.182	.100	.149	-.538

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	269	-.125	.092	.164	-.491
30	270	-.053	.099	.378	-.405
30	271	-.049	.107	.420	-.486
30	272	-.062	.115	.409	-.484
30	273	-.097	.119	.304	-.464
30	274	-.021	.119	.351	-.378
30	275	.007	.136	.455	-.470
30	276	.081	.128	.540	-.310
30	277	.099	.115	.560	-.290
30	278	.128	.115	.558	-.289
30	279	.135	.123	.595	-.261
30	280	-.093	.112	.357	-.460
30	281	-.154	.107	.454	-.569
30	282	-.287	.123	.327	-.793
30	283	-.449	.135	.079	-.960
30	284	-.351	.116	.090	-.867
30	285	-.391	.117	-.022	-.834
30	286	-.385	.119	.035	-.903
30	301	-.380	.119	.022	-1.251
30	302	-.371	.125	.062	-1.290
30	303	-.361	.119	.075	-.917
30	304	-.364	.118	-.043	-.912
30	305	-.355	.112	-.021	-.780
30	306	-.330	.116	.037	-.959
30	307	-.322	.110	.050	-.738
30	308	-.330	.112	.048	-.706
30	309	-.338	.107	.065	-.773
30	310	-.348	.113	.009	-.847
30	311	-.340	.112	.034	-.793
30	312	-.337	.106	.044	-.896
30	313	-.348	.099	-.042	-.705
30	314	-.340	.103	-.017	-.710
30	315	-.328	.103	-.014	-.703
30	316	-.330	.103	-.025	-.700
30	317	-.344	.104	-.024	-.791
30	318	-.345	.108	-.029	-.805
30	319	-.334	.106	-.013	-.811
30	320	-.301	.097	.017	-.656
30	321	-.348	.103	.028	-.747
30	322	-.361	.110	.029	-.773
30	323	-.347	.110	.030	-.752
30	324	-.342	.110	.024	-.732
30	325	-.340	.100	-.011	-.695
30	326	-.328	.104	.013	-.692
30	327	-.330	.110	.015	-.776
30	328	-.327	.106	.012	-.706
30	329	-.347	.098	-.019	-.684
30	330	-.346	.104	-.005	-.704
30	331	-.341	.099	-.019	-.703
30	332	-.358	.102	-.025	-.699
30	333	-.363	.097	-.053	-.730
30	334	-.366	.104	-.028	-.841
30	335	-.341	.102	.011	-.754
30	336	-.342	.104	.015	-.720
30	337	-.362	.099	-.027	-.716
30	338	-.358	.104	.026	-.735
30	339	-.341	.101	.018	-.764
30	340	-.344	.102	.042	-.729
30	341	-.339	.095	-.046	-.750
30	342	-.335	.100	-.025	-.762
30	343	-.320	.101	-.017	-.748
30	344	-.332	.101	-.025	-.758
30	345	-.345	.102	-.040	-.705
30	346	-.338	.106	-.022	-.705
30	347	-.321	.108	.057	-.668
30	348	-.340	.104	-.034	-.721
30	349	-.356	.097	-.024	-.828
30	350	-.367	.104	-.018	-1.066
30	351	-.365	.106	-.037	-.949
30	352	-.380	.109	-.040	-.938
30	353	-.361	.102	.060	-.712
30	354	-.357	.110	.066	-.754
30	355	-.342	.107	.038	-.707
30	356	-.345	.105	.046	-.692
30	357	-.351	.098	.037	-.669
30	358	-.354	.102	.079	-.692
30	359	-.339	.101	.106	-.657
30	360	-.342	.103	.116	-.679
30	361	-.350	.092	.069	-.762
30	362	-.360	.098	-.037	-.804
30	363	-.373	.105	-.019	-.806
30	364	-.377	.103	-.028	-.815
30	365	-.369	.098	-.020	-.718
30	366	-.372	.104	-.014	-.773
30	367	-.364	.103	-.019	-.793
30	368	-.382	.104	-.036	-.758
30	369	-.396	.100	.032	-.712
30	370	-.411	.108	.070	-.773
30	371	-.384	.107	.128	-.718
30	372	-.391	.110	-.015	-.717
30	373	-.360	.105	.015	-.712
30	374	-.359	.108	.040	-.708
30	375	-.343	.106	.050	-.697
30	376	-.349	.103	.037	-.681
30	377	-.382	.098	-.046	-.712
30	378	-.360	.102	-.012	-.695
30	379	-.348	.101	-.023	-.680
30	380	-.356	.101	-.017	-.687
30	381	-.424	.100	-.077	-.863
30	382	-.398	.103	-.028	-.845
30	383	-.387	.099	-.024	-.748
30	384	-.397	.099	-.066	-.766
30	385	-.353	.098	-.044	-.865
30	386	-.399	.111	-.036	-.777
30	387	-.418	.115	-.084	-1.054
30	388	-.430	.116	-.088	-1.054
30	389	-.460	.107	-.148	-.850
30	390	-.436	.122	-.082	-1.084
30	391	-.397	.108	-.086	-.824
30	392	-.382	.101	-.064	-.713
30	393	-.395	.109	-.007	-.776
30	394	-.360	.111	.032	-.740
30	395	-.342	.109	.027	-.714
30	396	-.343	.109	.017	-.708
30	397	-.389	.097	-.081	-.863
30	398	-.366	.103	-.042	-.924
30	399	-.427	.112	-.057	-.884
30	400	-.427	.108	-.073	-.851
30	401	-.460	.105	-.105	-.794
30	402	-.438	.110	-.070	-.795
30	403	-.431	.111	-.017	-.824
30	404	-.446	.115	-.058	-.892
30	405	-.515	.123	-.031	-.987
30	406	-.492	.129	.012	-1.073
30	407	-.470	.129	.030	-.951
30	408	-.478	.136	.005	-1.047
30	409	-.466	.118	-.100	-1.093
30	410	-.414	.118	-.028	-.974
30	411	-.383	.117	.036	-.795
30	412	-.370	.111	.011	-.717
30	413	-.422	.104	-.097	-.779
30	414	-.376	.116	-.031	-.885
30	415	-.370	.107	-.000	-.740
30	416	-.379	.108	-.037	-.747
30	417	-.486	.108	-.126	-.865
30	418	-.451	.112	-.107	-.853
30	419	-.435	.110	-.097	-.849
30	420	-.444	.108	-.105	-.829
30	421	-.497	.126	-.068	-1.158
30	422	-.472	.136	-.006	-1.445
30	423	-.109	.113	.260	-.703
30	424	-.472	.140	-.025	-1.104
30	425	-.505	.121	-.190	-.952
30	426	-.469	.129	-.112	-1.065
30	427	-.441	.121	-.100	-.864
30	428	-.436	.119	-.100	-.806
30	429	-.449	.110	-.089	-1.063
30	430	-.404	.114	-.046	-1.191
30	431	-.338	.098	-.016	-.753
30	432	-.373	.106	-.073	-.994

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
30	433	-.431	.110	.041	-.798
30	434	-.405	.115	.065	-.774
30	435	-.427	.124	.027	-.967
30	436	-.420	.129	-.031	-1.124
30	437	-.475	.128	-.118	-1.083
30	438	-.447	.137	-.063	-1.213
30	439	-.427	.131	-.065	-1.118
30	440	-.405	.113	-.073	-.949
30	441	-.443	.111	-.037	-.864
30	442	-.378	.132	.225	-.822
30	443	-.389	.125	.066	-.821
30	444	-.398	.126	.084	-.848
30	445	-.440	.123	-.033	-.882
30	446	-.406	.131	.005	-.851
30	447	-.382	.122	.133	-.887
30	448	-.404	.129	.002	-.937
30	449	-.474	.146	-.108	-1.550
30	450	-.427	.149	-.041	-1.591
30	451	-.322	.124	.072	-.872
30	452	-.325	.120	.089	-.885
30	453	-.400	.120	-.035	-.974
30	454	-.413	.118	-.020	-.952
30	455	-.398	.148	.122	-.994
30	456	-.323	.142	.098	-.948
30	457	-.291	.116	.078	-.946
30	801	-.149	.094	.178	-.495
30	901	-.533	.168	-.060	-1.337
30	902	-.539	.176	-.028	-1.264
30	903	-.550	.177	.026	-1.396
30	904	-.479	.140	.012	-1.043
30	905	-.473	.146	-.048	-1.220
30	906	-.410	.140	.029	-1.141
30	907	-.359	.136	.105	-.954
30	908	-.406	.132	.075	-.908
30	909	-.427	.141	.086	-.965
30	910	-.386	.149	.283	-.931
30	911	-.350	.102	.001	-.725
30	912	-.325	.101	.067	-.887
30	913	-.340	.098	.019	-.683
30	914	-.340	.106	.052	-.708
30	915	-.031	.104	.565	-.386
30	916	.092	.112	.479	-.325
30	917	.054	.124	.547	-.427
30	918	-.009	.112	.396	-.430
30	919	-.108	.103	.207	-.571
30	919	-.108	.103	.207	-.571
30	920	-.037	.106	.354	-.435
30	921	-.140	.100	.163	-.567
30	922	-.098	.109	.376	-.479
30	923	-.083	.100	.250	-.404
30	924	-.074	.100	.252	-.372
30	925	-.120	.118	.483	-.531
30	926	-.225	.097	.065	-.605
30	927	-.527	.124	-.141	-1.059
30	928	-.386	.120	-.041	-.979
30	929	-.325	.111	.042	-.733
40	1	-.182	.104	.148	-.610
40	2	-.111	.099	.219	-.490
40	3	-.106	.106	.215	-.551
40	4	-.016	.084	.291	-.322
40	5	-.050	.097	.237	-.400
40	6	-.012	.106	.344	-.375
40	7	-.040	.135	.510	-.479
40	8	-.218	.148	.914	-.223
40	9	-.049	.110	.369	-.431
40	10	-.112	.111	.276	-.544
40	11	-.346	.110	.093	-.687
40	12	-.141	.112	.270	-.548
40	13	-.374	.116	-.019	-.768
40	14	-.467	.138	.012	-.986
40	15	-.314	.128	.068	-.895
40	16	-.360	.128	.029	-.949
40	101	-.447	.134	-.009	-.980
40	102	-.444	.141	-.012	-1.048
40	103	-.402	.130	.034	-.965
40	104	-.426	.131	.034	-.941
40	105	-.335	.110	.100	-.738
40	106	-.244	.118	.268	-.676
40	107	-.115	.117	.409	-.504
40	108	-.092	.107	.298	-.421
40	109	-.064	.134	.391	-.566
40	110	-.064	.146	.463	-.648
40	111	-.092	.178	.528	-.786
40	112	.191	.151	.846	-.240
40	113	.246	.167	.903	-.288
40	114	-.005	.152	.481	-.515
40	115	.029	.152	.525	-.471
40	116	.045	.138	.500	-.406
40	117	-.055	.135	.400	-.495
40	118	-.139	.119	.311	-.587
40	119	-.189	.118	.235	-.704
40	120	-.235	.111	.183	-.734
40	121	-.415	.135	.120	-1.346
40	122	-.458	.113	-.078	-.932
40	123	-.439	.135	.014	-1.062
40	124	-.380	.134	-.000	-.971
40	125	-.394	.120	.011	-.887
40	126	-.420	.115	-.053	-.825
40	127	-.392	.119	-.016	-.818
40	128	-.330	.114	.041	-.731
40	129	-.254	.119	.115	-.717
40	130	-.202	.098	.188	-.545
40	131	-.029	.115	.404	-.383
40	132	.121	.119	.602	-.299
40	133	.221	.144	.776	-.169
40	134	.140	.231	.766	-.748
40	135	.136	.243	.861	-.750
40	136	.339	.173	.830	-.196
40	137	.495	.176	1.060	-.047
40	138	.427	.169	.953	-.019
40	139	.437	.169	.977	-.008
40	141	.273	.140	.704	-.123
40	142	.052	.131	.497	-.370
40	143	-.115	.122	.323	-.527
40	144	-.190	.111	.205	-.592
40	145	-.365	.115	-.003	-1.018
40	146	-.430	.111	-.086	-.817
40	147	-.421	.123	-.006	-.820
40	148	-.372	.125	.021	-.840
40	149	-.410	.125	.065	-1.033
40	150	-.444	.114	-.036	-.883
40	151	-.408	.121	.022	-1.014
40	152	-.345	.112	.057	-.872
40	153	-.270	.112	.105	-.741
40	154	-.209	.105	.083	-.555
40	155	-.042	.121	.321	-.424
40	156	.228	.138	.694	-.286
40	157	.151	.215	.770	-.531
40	158	.023	.208	.712	-.726
40	159	.248	.184	.819	-.346
40	160	.435	.161	1.027	-.090
40	161	.419	.159	.939	-.103
40	162	.365	.147	.901	-.170
40	163	.339	.138	.870	-.111
40	164	.099	.113	.476	-.290
40	165	-.082	.106	.267	-.522
40	166	-.216	.102	.134	-.516
40	167	-.363	.109	-.014	-.924
40	168	-.359	.111	.005	-.966
40	169	-.369	.115	.020	-.810
40	170	-.437	.108	-.100	-.914
40	171	-.402	.122	.019	-1.057
40	172	-.388	.116	-.043	-.924
40	173	-.383	.117	-.032	-.982
40	174	-.420	.109	-.082	-.833
40	175	-.269	.102	.095	-.586
40	176	-.168	.103	.214	-.484
40	177	-.055	.112	.379	-.388
40	178	.024	.119	.483	-.379
40	179	.123	.143	.627	-.568

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	180	.071	.207	.697	-.664
40	181	.049	.207	.754	-.684
40	182	.223	.169	.924	-.328
40	183	.359	.166	.967	-.154
40	184	.360	.157	.857	-.159
40	185	.352	.154	.832	-.129
40	186	.277	.150	.892	-.214
40	187	.222	.138	.743	-.214
40	188	.084	.121	.532	-.295
40	189	-.091	.110	.300	-.418
40	190	-.267	.101	.079	-.616
40	191	-.410	.117	.036	-.932
40	192	-.407	.119	.051	-.961
40	193	-.404	.121	.057	-1.060
40	194	-.449	.124	.098	-.982
40	195	-.416	.147	.108	-1.083
40	196	-.402	.140	.082	-1.036
40	197	-.419	.160	.025	-1.235
40	198	-.477	.139	.073	-1.245
40	199	-.331	.116	.178	-.832
40	200	-.216	.107	.249	-.597
40	201	-.089	.111	.364	-.415
40	202	.035	.139	.491	-.536
40	203	-.014	.219	.608	-.714
40	204	-.027	.212	.626	-.683
40	205	.141	.182	.740	-.397
40	206	.231	.159	.897	-.412
40	207	.291	.159	.954	-.258
40	208	.312	.141	.802	-.141
40	209	.266	.151	.856	-.154
40	210	.008	.109	.487	-.386
40	211	-.130	.105	.331	-.511
40	212	-.263	.111	.201	-.715
40	213	-.467	.146	-.026	-1.163
40	214	-.523	.133	-.103	-1.356
40	215	-.454	.125	-.050	-1.021
40	216	-.412	.131	.023	-1.150
40	217	-.430	.152	.016	-1.301
40	218	-.470	.137	-.031	-1.195
40	219	-.424	.148	-.035	-1.277
40	220	-.414	.146	-.017	-1.237
40	221	-.314	.112	.008	-.826
40	222	-.276	.104	.025	-.674
40	223	-.134	.103	.197	-.490
40	224	-.049	.103	.313	-.391
40	225	-.006	.114	.423	-.443
40	226	-.131	.177	.545	-.839
40	227	-.112	.177	.638	-.852
40	228	.055	.147	.698	-.484
40	229	.181	.147	.806	-.284
40	230	.187	.129	.816	-.218
40	231	.226	.133	.893	-.193
40	232	.207	.125	.870	-.195
40	233	.140	.117	.688	-.231
40	234	-.051	.108	.388	-.465
40	235	-.172	.111	.255	-.597
40	236	-.309	.115	.074	-.724
40	237	-.561	.163	-.121	-1.331
40	238	-.613	.193	-.052	-1.358
40	239	-.543	.148	-.016	-1.189
40	240	-.485	.140	.029	-1.038
40	241	-.408	.127	.012	-.960
40	242	-.384	.129	.026	-.944
40	243	-.426	.134	.011	-1.133
40	244	-.387	.125	.008	-1.046
40	245	-.307	.116	.024	-.709
40	246	-.227	.104	.141	-.609
40	247	-.175	.100	.189	-.542
40	248	-.043	.102	.296	-.540
40	249	-.172	.160	.306	-.858
40	250	-.179	.163	.323	-.878
40	251	-.029	.120	.376	-.492
40	252	.114	.125	.625	-.338
40	253	.169	.130	.705	-.206
40	254	.185	.133	.679	-.193
40	255	.179	.102	.576	-.141
40	256	-.069	.109	.379	-.429
40	257	-.307	.104	.015	-.667
40	258	-.472	.129	-.078	-.932
40	259	-.821	.201	-.266	-1.589
40	260	-.662	.184	-.110	-1.325
40	261	-.575	.160	-.059	-1.541
40	262	-.514	.148	-.009	-1.185
40	263	-.385	.129	.004	-.998
40	264	-.362	.123	.023	-.880
40	265	-.444	.142	-.055	-1.096
40	266	-.396	.135	.018	-1.071
40	267	-.303	.116	.087	-.756
40	268	-.140	.097	.185	-.484
40	269	-.110	.101	.330	-.422
40	270	-.018	.107	.480	-.339
40	271	-.016	.110	.503	-.337
40	272	-.019	.116	.499	-.412
40	273	-.064	.127	.488	-.582
40	274	.013	.118	.535	-.469
40	275	.031	.119	.565	-.441
40	276	.096	.115	.584	-.323
40	277	.100	.109	.553	-.328
40	278	.127	.113	.619	-.303
40	279	.118	.121	.643	-.317
40	280	-.125	.108	.420	-.478
40	281	-.212	.110	.180	-.590
40	282	-.337	.119	.095	-.723
40	283	-.506	.132	-.046	-1.003
40	284	-.402	.118	-.002	-.880
40	285	-.412	.128	-.034	-.960
40	286	-.366	.126	.065	-.884
40	301	-.343	.104	.057	-.819
40	302	-.355	.110	.068	-.820
40	303	-.343	.108	.072	-.739
40	304	-.343	.110	.113	-.788
40	305	-.310	.098	-.019	-.787
40	306	-.335	.105	.015	-.697
40	307	-.335	.103	.038	-.763
40	308	-.344	.108	.056	-.795
40	309	-.332	.101	-.018	-.768
40	310	-.334	.101	-.009	-.738
40	311	-.326	.101	.004	-.709
40	312	-.327	.107	.041	-.763
40	313	-.311	.093	.017	-.682
40	314	-.333	.097	.008	-.688
40	315	-.325	.098	.004	-.684
40	316	-.332	.098	-.021	-.700
40	317	-.311	.094	.003	-.674
40	318	-.332	.100	.006	-.666
40	319	-.322	.099	.019	-.660
40	320	-.287	.089	.006	-.588
40	321	-.343	.106	.005	-.766
40	322	-.344	.102	-.023	-.751
40	323	-.332	.102	-.017	-.728
40	324	-.335	.101	-.013	-.736
40	325	-.329	.088	-.023	-.632
40	326	-.339	.095	.001	-.688
40	327	-.322	.098	.000	-.705
40	328	-.321	.096	-.002	-.682
40	329	-.305	.093	.059	-.598
40	330	-.323	.099	.060	-.631
40	331	-.319	.094	.030	-.620
40	332	-.332	.097	.047	-.635
40	333	-.336	.089	-.001	-.692
40	334	-.354	.098	-.006	-.745
40	335	-.340	.099	-.007	-.708
40	336	-.348	.099	.023	-.709
40	337	-.346	.091	-.023	-.707
40	338	-.358	.096	-.021	-.723
40	339	-.345	.093	-.051	-.703
40	340	-.350	.094	-.032	-.709
40	341	-.321	.093	.020	-.683
40	342	-.334	.100	.028	-.736
40	343	-.321	.100	.045	-.707

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
40	344	-.335	.102	.030	-.738
40	345	-.319	.096	.041	-.709
40	346	-.327	.102	.061	-.719
40	347	-.315	.095	.015	-.706
40	348	-.331	.100	.046	-.707
40	349	-.335	.090	-.057	-.633
40	350	-.354	.096	-.023	-.692
40	351	-.349	.097	-.028	-.689
40	352	-.361	.098	.001	-.732
40	353	-.325	.092	-.001	-.685
40	354	-.342	.100	-.011	-.692
40	355	-.343	.101	-.023	-.708
40	356	-.346	.100	-.028	-.724
40	357	-.321	.098	-.004	-.644
40	358	-.334	.104	.027	-.719
40	359	-.322	.104	.055	-.705
40	360	-.326	.106	.054	-.709
40	361	-.329	.087	-.005	-.629
40	362	-.352	.095	-.004	-.688
40	363	-.350	.101	.105	-.715
40	364	-.352	.099	.039	-.723
40	365	-.350	.093	-.052	-.703
40	366	-.368	.100	-.035	-.744
40	367	-.364	.099	-.041	-.732
40	368	-.378	.100	-.048	-.749
40	369	-.368	.093	-.009	-.741
40	370	-.391	.103	-.035	-.856
40	371	-.373	.103	.043	-.885
40	372	-.380	.104	.029	-.837
40	373	-.375	.101	-.001	-.810
40	374	-.383	.104	-.018	-.826
40	375	-.367	.100	-.050	-.841
40	376	-.369	.097	-.042	-.723
40	377	-.402	.098	-.031	-.757
40	378	-.363	.102	.012	-.708
40	379	-.341	.101	.027	-.689
40	380	-.354	.102	.020	-.722
40	381	-.419	.112	-.019	-.876
40	382	-.376	.113	.017	-.845
40	383	-.362	.108	-.013	-.808
40	384	-.375	.109	-.051	-.838
40	385	-.363	.097	-.053	-.762
40	386	-.388	.110	-.055	-.864
40	387	-.409	.114	-.025	-.913
40	388	-.429	.119	-.037	-.948
40	389	-.466	.121	-.022	-.860
40	390	-.426	.134	.029	-1.062
40	391	-.402	.130	.031	-.912
40	392	-.393	.124	.005	-.916
40	393	-.439	.113	-.078	-1.077
40	394	-.394	.116	-.043	-1.062
40	395	-.366	.112	-.021	-.983
40	396	-.365	.113	.013	-1.005
40	397	-.407	.114	-.052	-.832
40	398	-.383	.123	.001	-.833
40	399	-.418	.127	-.031	-.947
40	400	-.422	.124	-.035	-.916
40	401	-.495	.115	-.130	-.942
40	402	-.468	.119	-.089	-.932
40	403	-.457	.118	-.086	-.983
40	404	-.477	.120	-.104	-.999
40	405	-.531	.140	-.067	-1.284
40	406	-.510	.156	-.038	-1.533
40	407	-.450	.138	.076	-.955
40	408	-.447	.144	.094	-1.124
40	409	-.492	.135	-.070	-1.156
40	410	-.440	.131	-.042	-1.057
40	411	-.411	.128	-.012	-1.268
40	412	-.404	.124	-.076	-1.229
40	413	-.437	.119	-.082	-.992
40	414	-.394	.132	.021	-1.153
40	415	-.364	.122	.034	-.877
40	416	-.377	.129	.039	-1.256
40	417	-.523	.132	-.129	-1.399
40	418	-.481	.135	-.086	-1.184
40	419	-.461	.131	-.044	-1.033
40	420	-.477	.134	-.095	-1.100
40	421	-.529	.138	-.164	-1.180
40	422	-.495	.141	-.085	-1.195
40	423	-.119	.111	.248	-.659
40	424	-.484	.144	-.082	-1.263
40	425	-.518	.136	-.099	-1.216
40	426	-.469	.148	.079	-1.326
40	427	-.441	.136	.127	-1.119
40	428	-.433	.127	.080	-.980
40	429	-.475	.125	-.111	-1.055
40	430	-.428	.129	-.026	-.998
40	431	-.306	.114	.096	-.714
40	432	-.380	.117	-.016	-.801
40	433	-.396	.116	.039	-.960
40	434	-.365	.122	.113	-.967
40	435	-.462	.142	-.030	-1.255
40	436	-.433	.175	.158	-1.642
40	437	-.558	.167	-.058	-1.358
40	438	-.529	.179	.008	-1.448
40	439	-.499	.170	.036	-1.299
40	440	-.445	.149	.122	-1.196
40	441	-.431	.137	.015	-.935
40	442	-.342	.165	.289	-.897
40	443	-.325	.138	.165	-.742
40	444	-.341	.136	.145	-.843
40	445	-.451	.147	.018	-1.240
40	446	-.422	.159	.110	-1.300
40	447	-.384	.138	.034	-1.211
40	448	-.413	.144	.058	-1.172
40	449	-.467	.153	-.044	-1.332
40	450	-.412	.151	.017	-1.356
40	451	-.302	.140	.158	-.959
40	452	-.312	.137	.140	-.828
40	453	-.385	.132	.019	-1.138
40	454	-.417	.138	-.018	-.999
40	455	-.355	.176	.224	-1.242
40	456	-.327	.140	.166	-.949
40	457	-.280	.131	.100	-1.437
40	801	-.122	.098	.187	-.435
40	901	-.656	.179	-.115	-1.300
40	902	-.608	.178	.021	-1.257
40	903	-.661	.171	-.113	-1.234
40	904	-.520	.143	.004	-1.134
40	905	-.554	.141	-.142	-1.094
40	906	-.390	.132	.044	-1.098
40	907	-.494	.147	.121	-1.238
40	908	-.495	.133	.025	-1.073
40	909	-.402	.134	.055	-1.048
40	910	-.239	.166	.505	-.763
40	911	-.365	.114	.085	-.905
40	912	-.333	.105	.110	-.721
40	913	-.361	.101	-.047	-.681
40	914	-.349	.106	-.029	-.706
40	915	-.041	.109	.339	-.376
40	916	.100	.114	.537	-.253
40	917	.078	.118	.607	-.283
40	918	.025	.109	.533	-.352
40	919	-.069	.096	.266	-.436
40	919	-.069	.096	.266	-.436
40	920	-.005	.105	.433	-.352
40	921	-.092	.094	.234	-.496
40	922	-.113	.124	.382	-.558
40	923	-.075	.105	.278	-.579
40	924	-.062	.104	.344	-.567
40	925	-.152	.110	.241	-.535
40	926	-.186	.111	.253	-.574
40	927	-.584	.158	-.145	-1.147
40	928	-.332	.140	.106	-.891
40	929	-.361	.105	.052	-.748
50	1	-.153	.107	.213	-.575
50	2	-.079	.100	.266	-.442
50	3	-.084	.112	.240	-.686
50	4	.014	.087	.376	-.259
50	5	-.000	.095	.387	-.315

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	6	.030	.101	.398	-.338
50	7	.002	.127	.445	-.547
50	8	.120	.134	.738	-.347
50	9	-.031	.111	.369	-.427
50	10	-.094	.117	.329	-.602
50	11	-.274	.118	.089	-.635
50	12	-.134	.115	.294	-.511
50	13	-.333	.127	.107	-.822
50	14	-.424	.150	.077	-1.047
50	15	-.269	.130	.145	-.911
50	16	-.310	.133	.134	-.878
50	101	-.413	.133	.089	-.955
50	102	-.448	.144	.088	-1.064
50	103	-.470	.143	.110	-1.032
50	104	-.482	.152	.156	-1.289
50	105	-.258	.107	.065	-.629
50	106	-.170	.115	.202	-.536
50	107	-.063	.119	.353	-.414
50	108	-.030	.119	.435	-.394
50	109	.005	.138	.528	-.359
50	110	.129	.146	.605	-.489
50	111	.144	.172	.731	-.598
50	112	.229	.165	.785	-.295
50	113	.170	.168	.735	-.360
50	114	-.109	.139	.353	-.785
50	115	-.055	.131	.409	-.551
50	116	-.057	.117	.321	-.509
50	117	-.129	.114	.263	-.593
50	118	-.139	.102	.200	-.505
50	119	-.196	.102	.161	-.546
50	120	-.252	.098	.106	-.588
50	121	-.366	.113	.036	-.753
50	122	-.359	.110	.032	-1.143
50	123	-.379	.122	.054	-1.028
50	124	-.363	.123	.058	-.842
50	125	-.418	.131	.101	-1.090
50	126	-.401	.128	-.029	-1.033
50	127	-.428	.146	-.048	-1.189
50	128	-.400	.142	-.029	-1.122
50	129	-.236	.125	.126	-.820
50	130	-.072	.115	.294	-.517
50	131	.083	.131	.484	-.371
50	132	.245	.136	.764	-.171
50	133	.336	.156	.852	-.120
50	134	.401	.183	1.009	-.282
50	135	.384	.207	1.052	-.340
50	136	.448	.166	1.096	-.134
50	137	.421	.177	1.040	-.152
50	138	.280	.183	.851	-.419
50	139	.278	.181	.839	-.435
50	141	.162	.136	.592	-.320
50	142	.051	.109	.488	-.388
50	143	-.133	.105	.284	-.606
50	144	-.218	.102	.137	-.695
50	145	-.347	.107	.042	-.895
50	146	-.323	.094	.024	-.620
50	147	-.367	.104	.037	-.715
50	148	-.352	.106	.069	-.724
50	149	-.421	.135	.058	-.930
50	150	-.375	.117	.016	-.887
50	151	-.415	.140	-.007	-1.142
50	152	-.387	.132	.005	-1.105
50	153	-.237	.113	.145	-.649
50	154	-.076	.104	.311	-.448
50	155	.049	.125	.462	-.342
50	156	.307	.151	.878	-.132
50	157	.320	.184	.946	-.368
50	158	.377	.177	.967	-.186
50	159	.427	.174	1.034	-.078
50	160	.441	.169	.976	-.028
50	161	.297	.192	.971	-.468
50	162	.266	.150	.694	-.259
50	163	.260	.125	.655	-.131
50	164	.043	.102	.356	-.289
50	165	-.116	.098	.186	-.455
50	166	-.216	.094	.089	-.538
50	167	-.359	.104	-.034	-.719
50	168	-.361	.106	-.027	-.749
50	169	-.371	.111	-.024	-.895
50	170	-.372	.109	-.078	-.981
50	171	-.418	.149	.005	-1.688
50	172	-.417	.144	.034	-1.145
50	173	-.463	.193	-.006	-1.530
50	174	-.472	.175	-.036	-1.315
50	175	-.268	.128	.149	-.719
50	176	-.132	.122	.289	-.547
50	177	.024	.130	.442	-.396
50	178	.183	.128	.624	-.303
50	179	.284	.147	.783	-.199
50	180	.319	.168	.837	-.249
50	181	.317	.182	.870	-.283
50	182	.356	.147	.909	-.126
50	183	.337	.144	.877	-.120
50	184	.219	.162	.686	-.494
50	185	.230	.153	.697	-.551
50	186	.219	.129	.816	-.140
50	187	.152	.123	.698	-.205
50	188	.027	.112	.532	-.323
50	189	-.125	.110	.326	-.487
50	190	-.248	.102	.071	-.625
50	191	-.386	.123	.001	-.894
50	192	-.388	.125	.009	-.903
50	193	-.392	.132	-.012	-.996
50	194	-.426	.129	.028	-.973
50	195	-.453	.159	.057	-1.322
50	196	-.457	.154	-.018	-1.300
50	197	-.519	.185	-.052	-1.282
50	198	-.549	.180	-.127	-1.320
50	199	-.355	.131	.046	-.852
50	200	-.196	.112	.176	-.622
50	201	-.021	.111	.371	-.451
50	202	.142	.144	.597	-.522
50	203	.159	.182	.758	-.662
50	204	.156	.192	.777	-.640
50	205	.222	.168	.884	-.505
50	206	.262	.144	.790	-.111
50	207	.179	.166	.739	-.516
50	208	.185	.145	.774	-.473
50	209	.182	.132	.669	-.186
50	210	-.009	.107	.418	-.383
50	211	-.147	.112	.271	-.576
50	212	-.265	.121	.118	-.771
50	213	-.419	.149	.011	-1.133
50	214	-.453	.153	-.036	-1.327
50	215	-.430	.150	.020	-1.161
50	216	-.409	.164	.073	-1.558
50	217	-.425	.157	.064	-1.111
50	218	-.446	.154	-.014	-1.212
50	219	-.574	.228	-.013	-1.488
50	220	-.566	.227	-.009	-1.431
50	221	-.341	.139	.109	-.931
50	222	-.244	.120	.203	-.672
50	223	-.086	.123	.396	-.557
50	224	.024	.127	.491	-.514
50	225	.085	.136	.598	-.376
50	226	.063	.165	.595	-.540
50	227	.063	.187	.680	-.727
50	228	.146	.155	.785	-.407
50	229	.183	.133	.830	-.259
50	230	.113	.132	.648	-.331
50	231	.135	.133	.694	-.321
50	232	.126	.118	.592	-.285
50	233	.072	.114	.478	-.322
50	234	-.065	.106	.380	-.412
50	235	-.189	.123	.291	-.594
50	236	-.312	.138	.211	-.770
50	237	-.515	.198	.152	-1.290
50	238	-.530	.204	-.009	-1.436
50	239	-.533	.183	.051	-1.248
50	240	-.486	.186	.164	-1.676

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	241	-.449	.156	.021	-1.093
50	242	-.443	.166	.053	-1.151
50	243	-.656	.257	-.056	-1.513
50	244	-.601	.247	-.013	-1.543
50	245	-.320	.130	.116	-.850
50	246	-.240	.124	.215	-.764
50	247	-.156	.117	.311	-.638
50	248	.023	.118	.611	-.343
50	249	-.005	.144	.568	-.583
50	250	-.001	.152	.592	-.559
50	251	.041	.125	.560	-.371
50	252	.112	.110	.658	-.200
50	253	.094	.125	.514	-.468
50	254	.115	.123	.547	-.388
50	255	.117	.089	.477	-.166
50	256	-.080	.112	.336	-.459
50	257	-.276	.120	.110	-.780
50	258	-.406	.155	.088	-1.020
50	259	-.712	.245	.000	-1.535
50	260	-.562	.220	-.029	-1.584
50	261	-.529	.172	.090	-1.199
50	262	-.469	.168	.100	-1.541
50	263	-.420	.173	.142	-1.083
50	264	-.379	.162	.130	-.995
50	265	-.550	.187	-.023	-1.211
50	266	-.498	.184	.009	-1.078
50	267	-.358	.141	.075	-.827
50	268	-.112	.115	.378	-.451
50	269	-.081	.111	.352	-.439
50	270	.027	.117	.544	-.371
50	271	.020	.121	.511	-.428
50	272	.043	.123	.571	-.462
50	273	.030	.120	.503	-.377
50	274	.080	.112	.563	-.351
50	275	.063	.110	.524	-.371
50	276	.112	.107	.637	-.288
50	277	.098	.115	.547	-.273
50	278	.115	.115	.534	-.246
50	279	.088	.122	.502	-.316
50	280	-.151	.110	.209	-.517
50	281	-.215	.131	.330	-.650
50	282	-.327	.153	.329	-.800
50	283	-.492	.176	.082	-1.139
50	284	-.397	.162	.153	-.965
50	285	-.388	.166	.108	-.986
50	286	-.362	.168	.142	-1.067
50	301	-.329	.094	-.004	-.705
50	302	-.335	.101	.018	-.780
50	303	-.326	.101	.020	-.762
50	304	-.329	.107	-.025	-1.059
50	305	-.301	.093	-.023	-.647
50	306	-.331	.106	.016	-.707
50	307	-.330	.103	-.002	-.738
50	308	-.336	.109	.002	-.776
50	309	-.339	.107	.022	-.732
50	310	-.318	.099	-.029	-.673
50	311	-.312	.100	-.006	-.664
50	312	-.331	.101	-.007	-.661
50	313	-.313	.095	.007	-.660
50	314	-.327	.099	.006	-.663
50	315	-.321	.101	.035	-.685
50	316	-.327	.101	.034	-.710
50	317	-.317	.087	-.033	-.583
50	318	-.330	.094	-.011	-.671
50	319	-.324	.093	-.023	-.712
50	320	-.284	.089	-.001	-.615
50	321	-.352	.100	-.041	-.685
50	322	-.351	.102	-.050	-.753
50	323	-.342	.100	-.040	-.763
50	324	-.345	.100	-.044	-.733
50	325	-.346	.095	-.023	-.662
50	326	-.346	.102	.009	-.682
50	327	-.329	.099	-.020	-.709
50	328	-.330	.098	-.020	-.712
50	329	-.317	.099	.059	-.667
50	330	-.324	.105	.064	-.682
50	331	-.319	.102	.029	-.679
50	332	-.330	.105	.056	-.705
50	333	-.329	.086	-.007	-.632
50	334	-.337	.093	.001	-.653
50	335	-.327	.094	.004	-.648
50	336	-.338	.094	-.022	-.635
50	337	-.362	.093	-.043	-.811
50	338	-.362	.098	-.026	-.791
50	339	-.348	.094	-.026	-.715
50	340	-.351	.097	-.038	-.714
50	341	-.343	.090	-.026	-.736
50	342	-.345	.096	-.011	-.761
50	343	-.332	.098	.016	-.776
50	344	-.347	.101	-.018	-.812
50	345	-.338	.089	-.035	-.735
50	346	-.335	.094	.010	-.703
50	347	-.308	.100	.042	-.723
50	348	-.337	.091	-.043	-.668
50	349	-.330	.090	-.019	-.639
50	350	-.336	.095	.009	-.677
50	351	-.330	.097	.036	-.678
50	352	-.342	.099	.009	-.701
50	353	-.353	.095	-.058	-.763
50	354	-.356	.103	-.027	-.713
50	355	-.361	.107	-.046	-.981
50	356	-.360	.103	-.047	-.934
50	357	-.357	.095	-.049	-.708
50	358	-.353	.100	-.021	-.688
50	359	-.341	.100	-.027	-.707
50	360	-.341	.102	-.011	-.698
50	361	-.343	.095	.014	-.684
50	362	-.353	.104	.010	-.733
50	363	-.355	.110	-.016	-.840
50	364	-.353	.107	.009	-.771
50	365	-.349	.097	-.023	-.787
50	366	-.354	.104	-.009	-.826
50	367	-.355	.104	-.032	-.856
50	368	-.367	.105	-.039	-.899
50	369	-.385	.109	-.029	-.893
50	370	-.394	.122	.001	-.948
50	371	-.375	.118	-.010	-.889
50	372	-.380	.115	.008	-.864
50	373	-.395	.102	-.108	-.914
50	374	-.385	.105	-.082	-.835
50	375	-.370	.100	-.057	-.791
50	376	-.369	.100	-.059	-.737
50	377	-.404	.106	-.079	-.727
50	378	-.364	.110	-.020	-.715
50	379	-.340	.109	.029	-.695
50	380	-.353	.112	.028	-.769
50	381	-.428	.134	-.014	-1.152
50	382	-.384	.133	.052	-1.038
50	383	-.370	.125	.022	-.917
50	384	-.385	.125	-.002	-.936
50	385	-.393	.129	-.039	-1.110
50	386	-.379	.118	-.013	-.958
50	387	-.421	.125	-.022	-1.024
50	388	-.442	.132	-.052	-1.097
50	389	-.490	.140	-.030	-1.186
50	390	-.455	.143	-.002	-1.043
50	391	-.464	.153	-.007	-1.237
50	392	-.453	.139	-.053	-.974
50	393	-.470	.127	-.104	-1.033
50	394	-.416	.139	-.005	-.995
50	395	-.379	.122	-.013	-.899
50	396	-.377	.123	-.003	-.860
50	397	-.438	.127	-.054	-1.072
50	398	-.408	.143	.012	-1.216
50	399	-.400	.166	.098	-1.294
50	400	-.401	.159	.098	-1.295
50	401	-.466	.155	-.050	-1.658
50	402	-.445	.164	.016	-1.790
50	403	-.450	.164	.079	-1.353
50	404	-.459	.164	.056	-1.374

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	405	-.493	.151	.085	-1.564
50	406	-.470	.171	.041	-2.012
50	407	-.434	.165	.048	-1.335
50	408	-.449	.159	.052	-1.434
50	409	-.589	.183	-.079	-1.492
50	410	-.518	.169	-.016	-1.322
50	411	-.465	.156	.059	-1.140
50	412	-.440	.145	.138	-.996
50	413	-.454	.129	-.106	-1.043
50	414	-.388	.151	.021	-1.101
50	415	-.371	.131	-.035	-.979
50	416	-.381	.137	-.014	-1.023
50	417	-.465	.168	-.029	-1.303
50	418	-.425	.173	.024	-1.256
50	419	-.428	.172	.049	-1.304
50	420	-.455	.178	-.017	-1.328
50	421	-.548	.185	-.073	-1.387
50	422	-.456	.180	.136	-1.225
50	423	-.053	.138	.432	-.576
50	424	-.412	.173	.270	-1.236
50	425	-.488	.164	.049	-1.603
50	426	-.467	.168	.219	-1.228
50	427	-.527	.208	.050	-1.508
50	428	-.502	.178	.021	-1.330
50	429	-.572	.178	-.018	-1.730
50	430	-.503	.174	.011	-1.407
50	431	-.320	.128	.044	-.980
50	432	-.441	.156	.029	-1.050
50	433	-.475	.157	.017	-1.172
50	434	-.437	.161	.077	-1.214
50	435	-.441	.233	.116	-1.562
50	436	-.436	.202	.114	-1.737
50	437	-.530	.205	.093	-1.291
50	438	-.513	.218	.056	-1.418
50	439	-.415	.206	.322	-1.276
50	440	-.327	.175	.255	-1.039
50	441	-.318	.151	.234	-.892
50	442	-.275	.171	.248	-1.012
50	443	-.248	.142	.268	-.809
50	444	-.281	.150	.255	-.831
50	445	-.418	.162	.126	-1.093
50	446	-.410	.173	.243	-1.124
50	447	-.407	.158	.098	-1.270
50	448	-.443	.176	.088	-1.676
50	449	-.565	.190	-.018	-1.669
50	450	-.508	.187	-.001	-1.572
50	451	-.328	.166	.238	-.995
50	452	-.344	.166	.200	-1.001
50	453	-.368	.185	.116	-1.136
50	454	-.378	.173	.246	-1.368
50	455	-.232	.180	.302	-1.123
50	456	-.320	.157	.106	-1.115
50	457	-.285	.158	.161	-.981
50	801	-.124	.101	.257	-.499
50	901	-.710	.178	-.128	-1.395
50	902	-.598	.171	-.020	-1.330
50	903	-.700	.175	-.129	-1.501
50	904	-.593	.161	-.086	-1.338
50	905	-.554	.133	-.080	-1.002
50	906	-.382	.125	.030	-.925
50	907	-.567	.162	-.023	-1.341
50	908	-.498	.146	-.029	-1.349
50	909	-.364	.148	.149	-.845
50	910	-.198	.161	.313	-1.011
50	911	-.390	.111	-.033	-.862
50	912	-.351	.106	-.007	-.777
50	913	-.384	.098	-.094	-.710
50	914	-.355	.100	-.045	-.703
50	915	-.045	.103	.321	-.490
50	916	.080	.101	.499	-.293
50	917	.091	.116	.678	-.289
50	918	.059	.112	.470	-.325
50	919	-.040	.104	.329	-.440
50	919	-.040	.104	.329	-.440
50	920	.029	.112	.439	-.338
50	921	-.069	.097	.239	-.475
50	922	-.131	.116	.277	-.579
50	923	-.059	.107	.464	-.411
50	924	-.046	.105	.483	-.392
50	925	-.177	.123	.276	-.576
50	926	-.182	.124	.250	-.639
50	927	-.584	.203	.033	-1.289
50	928	-.366	.161	.084	-.948
50	929	-.342	.109	.036	-.711
60	1	-.102	.116	.321	-.565
60	2	-.047	.101	.270	-.402
60	3	-.046	.119	.363	-.633
60	4	.021	.092	.318	-.433
60	5	.053	.106	.395	-.295
60	6	.062	.112	.404	-.351
60	7	.059	.127	.401	-.430
60	8	.095	.134	.731	-.316
60	9	-.024	.103	.306	-.345
60	10	-.106	.116	.277	-.493
60	11	-.248	.122	.156	-.617
60	12	-.145	.113	.307	-.497
60	13	-.302	.122	.113	-.881
60	14	-.398	.144	.088	-1.013
60	15	-.249	.144	.194	-.923
60	16	-.277	.144	.158	-.915
60	101	-.347	.114	.022	-.824
60	102	-.406	.135	.055	-.952
60	103	-.531	.172	.074	-1.198
60	104	-.724	.221	-.120	-1.640
60	105	-.213	.108	.141	-.573
60	106	-.113	.122	.299	-.530
60	107	.023	.127	.436	-.415
60	108	.043	.129	.410	-.412
60	109	.096	.143	.604	-.374
60	110	.225	.143	.711	-.182
60	111	.229	.159	.735	-.227
60	112	.186	.153	.670	-.245
60	113	.025	.155	.618	-.455
60	114	-.286	.147	.139	-.793
60	115	-.231	.170	.198	-.911
60	116	-.128	.111	.227	-.511
60	117	-.185	.111	.166	-.581
60	118	-.157	.104	.194	-.499
60	119	-.224	.109	.156	-.589
60	120	-.254	.104	.096	-.613
60	121	-.340	.113	.042	-.707
60	122	-.287	.103	.091	-.793
60	123	-.337	.114	.056	-.820
60	124	-.313	.112	.080	-.828
60	125	-.385	.147	.087	-.959
60	126	-.379	.151	.057	-.954
60	127	-.655	.243	.002	-1.431
60	128	-.613	.236	.045	-1.378
60	129	-.290	.149	.211	-.764
60	130	-.034	.118	.324	-.459
60	131	.163	.132	.585	-.289
60	132	.334	.141	.738	-.119
60	133	.431	.151	.935	-.007
60	134	.490	.156	1.012	-.037
60	135	.467	.171	1.063	-.104
60	136	.391	.168	.938	-.256
60	137	.244	.167	.843	-.395
60	138	.013	.188	.598	-.631
60	139	-.004	.217	.636	-.731
60	141	.061	.124	.536	-.286
60	142	.005	.099	.357	-.315
60	143	-.168	.102	.206	-.528
60	144	-.231	.101	.133	-.607
60	145	-.337	.107	.014	-.732
60	146	-.282	.094	.059	-.598
60	147	-.351	.105	.014	-.749
60	148	-.327	.105	.039	-.713
60	149	-.399	.157	.099	-1.180
60	150	-.362	.138	.051	-1.012
60	151	-.668	.256	.000	-1.688

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	152	-.626	.247	-.024	-1.681
60	153	-.297	.143	.150	-.844
60	154	-.020	.117	.396	-.389
60	155	.142	.134	.659	-.331
60	156	.430	.151	.915	-.121
60	157	.455	.162	.939	-.137
60	158	.486	.148	.925	-.072
60	159	.422	.172	.950	-.144
60	160	.312	.162	.941	-.257
60	161	.019	.201	.733	-.648
60	162	.002	.181	.493	-.675
60	163	.130	.118	.518	-.308
60	164	-.016	.099	.315	-.361
60	165	-.143	.099	.200	-.509
60	166	-.249	.102	.132	-.611
60	167	-.344	.111	.040	-.752
60	168	-.343	.113	.045	-.758
60	169	-.349	.116	.050	-.777
60	170	-.412	.105	-.090	-.799
60	171	-.414	.137	.030	-1.102
60	172	-.437	.149	-.005	-1.049
60	173	-.700	.236	-.075	-1.568
60	174	-.743	.225	-.092	-1.485
60	175	-.311	.143	.282	-.846
60	176	-.108	.129	.470	-.522
60	177	.095	.133	.677	-.289
60	178	.234	.144	.758	-.170
60	179	.340	.158	.859	-.122
60	180	.372	.160	.871	-.109
60	181	.371	.160	.901	-.120
60	182	.344	.166	.887	-.238
60	183	.257	.162	.793	-.246
60	184	.056	.191	.610	-.515
60	185	.082	.194	.616	-.537
60	186	.099	.114	.460	-.340
60	187	.071	.107	.431	-.274
60	188	-.022	.102	.335	-.382
60	189	-.148	.104	.236	-.609
60	190	-.275	.106	.041	-.680
60	191	-.367	.128	-.011	-1.013
60	192	-.364	.129	-.001	-1.006
60	193	-.367	.131	.018	-1.106
60	194	-.434	.129	.034	-1.061
60	195	-.395	.132	-.021	-.962
60	196	-.410	.140	-.052	-1.022
60	197	-.694	.209	-.111	-1.412
60	198	-.732	.198	-.170	-1.515
60	199	-.374	.137	.037	-.916
60	200	-.156	.120	.258	-.612
60	201	.051	.124	.499	-.416
60	202	.243	.147	.849	-.208
60	203	.282	.156	.913	-.330
60	204	.279	.156	.890	-.338
60	205	.257	.152	.751	-.341
60	206	.157	.138	.694	-.319
60	207	-.004	.163	.475	-.766
60	208	.073	.152	.527	-.477
60	209	.095	.117	.509	-.464
60	210	-.078	.098	.244	-.409
60	211	-.184	.111	.172	-.639
60	212	-.289	.131	.100	-.882
60	213	-.427	.177	.008	-1.320
60	214	-.464	.177	.086	-1.313
60	215	-.423	.169	.122	-1.344
60	216	-.374	.159	.028	-1.237
60	217	-.381	.140	.157	-1.036
60	218	-.436	.140	-.031	-.976
60	219	-.758	.226	-.114	-1.518
60	220	-.763	.214	-.153	-1.487
60	221	-.346	.137	.110	-.827
60	222	-.204	.121	.316	-.599
60	223	.002	.129	.486	-.424
60	224	.125	.139	.721	-.312
60	225	.188	.150	.825	-.275
60	226	.170	.147	.657	-.356
60	227	.188	.154	.756	-.357
60	228	.175	.141	.735	-.447
60	229	.102	.131	.630	-.387
60	230	-.010	.158	.435	-.753
60	231	.037	.161	.534	-.831
60	232	.074	.114	.456	-.458
60	233	.031	.107	.432	-.354
60	234	-.107	.098	.296	-.424
60	235	-.196	.114	.258	-.641
60	236	-.301	.133	.158	-.929
60	237	-.465	.197	.046	-1.518
60	238	-.460	.200	.053	-1.426
60	239	-.508	.194	.036	-1.371
60	240	-.452	.195	.191	-1.519
60	241	-.424	.146	.020	-1.018
60	242	-.405	.158	.074	-1.277
60	243	-.812	.257	-.047	-1.912
60	244	-.747	.232	-.076	-1.822
60	245	-.314	.122	.046	-.859
60	246	-.208	.114	.327	-.636
60	247	-.099	.112	.471	-.416
60	248	.115	.116	.568	-.237
60	249	.136	.141	.677	-.371
60	250	.148	.147	.680	-.360
60	251	.113	.135	.713	-.354
60	252	.121	.118	.543	-.273
60	253	.026	.144	.545	-.548
60	254	.067	.133	.571	-.586
60	255	.101	.089	.507	-.279
60	256	-.077	.111	.412	-.451
60	257	-.226	.120	.124	-.668
60	258	-.313	.150	.146	-.954
60	259	-.539	.219	.022	-1.559
60	260	-.491	.222	.127	-1.511
60	261	-.474	.199	.119	-1.545
60	262	-.439	.200	.165	-1.445
60	263	-.538	.171	-.047	-1.267
60	264	-.447	.157	-.016	-.960
60	265	-.573	.184	-.017	-1.312
60	266	-.548	.196	-.082	-1.479
60	267	-.363	.136	.116	-.844
60	268	-.087	.107	.292	-.451
60	269	-.024	.107	.322	-.424
60	270	.090	.118	.531	-.290
60	271	.072	.125	.581	-.314
60	272	.111	.121	.547	-.261
60	273	.116	.120	.597	-.312
60	274	.133	.113	.573	-.273
60	275	.077	.110	.514	-.314
60	276	.109	.103	.571	-.258
60	277	.093	.103	.453	-.272
60	278	.109	.102	.451	-.204
60	279	.072	.111	.469	-.247
60	280	-.144	.103	.187	-.533
60	281	-.192	.105	.162	-.535
60	282	-.280	.126	.147	-.704
60	283	-.425	.143	.099	-.911
60	284	-.350	.139	.129	-.903
60	285	-.376	.163	.144	-1.001
60	286	-.331	.167	.206	-.929
60	301	-.328	.104	.012	-.749
60	302	-.318	.111	.042	-.760
60	303	-.311	.111	.046	-.827
60	304	-.312	.113	.040	-.787
60	305	-.342	.109	.013	-.786
60	306	-.353	.120	.035	-.775
60	307	-.358	.121	.003	-1.082
60	308	-.351	.121	.046	-.823
60	309	-.373	.111	-.006	-.877
60	310	-.336	.106	-.023	-.813
60	311	-.335	.106	-.024	-.801
60	312	-.332	.100	.027	-.659
60	313	-.346	.099	-.060	-.719
60	314	-.342	.101	-.026	-.716
60	315	-.339	.102	-.050	-.714

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	316	-.339	.101	-.053	-.718
60	317	-.326	.090	-.001	-.615
60	318	-.324	.097	.049	-.632
60	319	-.326	.097	.022	-.643
60	320	-.298	.093	.001	-.609
60	321	-.347	.100	-.014	-.688
60	322	-.345	.104	.014	-.705
60	323	-.341	.103	.029	-.687
60	324	-.339	.103	.045	-.681
60	325	-.357	.096	-.049	-.723
60	326	-.343	.102	-.011	-.712
60	327	-.328	.098	.000	-.710
60	328	-.322	.097	.001	-.697
60	329	-.326	.091	-.006	-.597
60	330	-.319	.097	.032	-.617
60	331	-.320	.093	.008	-.610
60	332	-.326	.098	-.006	-.638
60	333	-.342	.093	-.019	-.720
60	334	-.335	.099	.013	-.719
60	335	-.337	.100	-.002	-.777
60	336	-.339	.099	-.023	-.743
60	337	-.373	.093	-.055	-.666
60	338	-.357	.097	-.014	-.684
60	339	-.350	.095	-.016	-.754
60	340	-.344	.098	-.037	-.869
60	341	-.348	.094	.020	-.700
60	342	-.333	.099	.074	-.696
60	343	-.329	.101	.084	-.761
60	344	-.333	.104	.057	-.875
60	345	-.343	.106	-.060	-1.064
60	346	-.326	.107	-.036	-.906
60	347	-.305	.105	.012	-.722
60	348	-.329	.104	-.032	-.808
60	349	-.354	.091	-.058	-.669
60	350	-.345	.097	-.017	-.689
60	351	-.346	.099	-.008	-.673
60	352	-.352	.101	-.016	-.686
60	353	-.351	.097	.004	-.681
60	354	-.345	.103	.000	-.686
60	355	-.359	.110	-.011	-.733
60	356	-.352	.105	-.010	-.710
60	357	-.366	.099	-.013	-.700
60	358	-.349	.105	.013	-.800
60	359	-.342	.105	.014	-.816
60	360	-.338	.106	.037	-.812
60	361	-.336	.103	.077	-.740
60	362	-.330	.112	.108	-.816
60	363	-.341	.119	.063	-.969
60	364	-.332	.114	.059	-.872
60	365	-.369	.106	-.006	-.819
60	366	-.364	.112	.035	-.963
60	367	-.374	.114	.065	-.939
60	368	-.376	.114	.058	-.879
60	369	-.393	.101	-.013	-.830
60	370	-.390	.113	.030	-.877
60	371	-.389	.117	.027	-.978
60	372	-.392	.116	-.015	-.893
60	373	-.404	.124	-.078	-1.247
60	374	-.383	.123	-.032	-1.223
60	375	-.372	.120	-.045	-1.288
60	376	-.360	.116	-.055	-1.037
60	377	-.404	.115	-.075	-.932
60	378	-.362	.118	.015	-.899
60	379	-.336	.116	.081	-.852
60	380	-.346	.118	.053	-.879
60	381	-.441	.157	-.003	-1.229
60	382	-.393	.157	.054	-1.236
60	383	-.380	.152	.041	-1.396
60	384	-.399	.156	.011	-1.505
60	385	-.383	.158	.105	-1.764
60	386	-.365	.138	.024	-1.063
60	387	-.378	.134	.028	-1.062
60	388	-.400	.138	.069	-1.175
60	389	-.490	.148	-.026	-1.178
60	390	-.452	.142	.031	-1.216
60	391	-.457	.153	.059	-1.839
60	392	-.452	.145	.111	-1.183
60	393	-.461	.132	-.026	-1.092
60	394	-.405	.129	.045	-.881
60	395	-.368	.119	.076	-.832
60	396	-.367	.120	.091	-.820
60	397	-.419	.120	-.058	-.808
60	398	-.388	.129	.049	-.860
60	399	-.386	.183	.118	-1.644
60	400	-.385	.179	.073	-1.646
60	401	-.456	.184	.024	-1.571
60	402	-.446	.194	.032	-1.627
60	403	-.440	.190	.295	-1.693
60	404	-.413	.156	.118	-1.214
60	405	-.419	.129	-.028	-1.039
60	406	-.410	.143	.065	-1.024
60	407	-.432	.167	.117	-1.297
60	408	-.434	.145	.043	-1.227
60	409	-.522	.161	.056	-1.269
60	410	-.475	.155	.062	-1.112
60	411	-.429	.145	.279	-1.019
60	412	-.408	.135	.009	-1.031
60	413	-.443	.132	-.005	-.986
60	414	-.364	.124	.014	-.851
60	415	-.379	.132	.050	-.849
60	416	-.383	.135	.062	-.864
60	417	-.391	.177	.081	-1.400
60	418	-.359	.183	.090	-1.292
60	419	-.368	.195	.113	-1.475
60	420	-.393	.201	.122	-1.594
60	421	-.461	.191	.120	-1.455
60	422	-.356	.162	.154	-1.105
60	423	-.006	.129	.451	-.575
60	424	-.393	.164	.297	-1.023
60	425	-.502	.174	.075	-1.336
60	426	-.501	.168	-.057	-1.191
60	427	-.551	.205	.006	-1.978
60	428	-.533	.182	-.029	-1.524
60	429	-.552	.171	-.060	-1.261
60	430	-.497	.167	.130	-2.436
60	431	-.315	.136	.055	-.890
60	432	-.449	.149	.011	-1.044
60	433	-.476	.160	-.054	-1.281
60	434	-.450	.166	.009	-1.384
60	435	-.384	.231	.200	-1.548
60	436	-.405	.254	.192	-1.611
60	437	-.419	.190	.084	-1.529
60	438	-.406	.203	.171	-1.487
60	439	-.224	.149	.252	-.924
60	440	-.203	.132	.305	-.816
60	441	-.245	.130	.151	-.686
60	442	-.226	.147	.205	-.746
60	443	-.220	.136	.154	-.745
60	444	-.229	.147	.160	-.850
60	445	-.274	.155	.298	-1.003
60	446	-.292	.176	.319	-1.209
60	447	-.356	.163	.274	-1.151
60	448	-.489	.172	.123	-1.440
60	449	-.554	.186	-.039	-1.532
60	450	-.518	.181	-.013	-1.589
60	451	-.336	.172	.123	-1.196
60	452	-.358	.172	.117	-1.221
60	453	-.411	.202	.129	-1.244
60	454	-.338	.191	.295	-1.039
60	455	-.233	.179	.339	-1.122
60	456	-.414	.167	.053	-1.186
60	457	-.339	.147	.067	-1.211
60	801	-.091	.098	.302	-.535
60	901	-.626	.157	-.100	-1.409
60	902	-.492	.151	-.062	-1.295
60	903	-.647	.159	-.181	-1.499
60	904	-.567	.160	-.108	-1.589
60	905	-.518	.142	-.081	-1.011
60	906	-.368	.122	.069	-.869
60	907	-.570	.165	.073	-1.175

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
60	908	-.491	.158	.024	-1.337
60	909	-.243	.151	.228	-.771
60	910	-.274	.160	.377	-.782
60	911	-.404	.112	-.049	-.812
60	912	-.351	.108	.030	-.745
60	913	-.358	.101	-.030	-.832
60	914	-.334	.103	.018	-.789
60	915	-.048	.108	.346	-.424
60	916	.092	.110	.601	-.278
60	917	.120	.120	.614	-.231
60	918	.105	.119	.530	-.242
60	919	-.026	.104	.318	-.479
60	919	-.026	.104	.318	-.479
60	920	.076	.119	.535	-.258
60	921	-.045	.102	.327	-.446
60	922	-.130	.104	.224	-.476
60	923	.004	.120	.428	-.463
60	924	.016	.115	.408	-.416
60	925	-.184	.119	.177	-.649
60	926	-.161	.119	.278	-.602
60	927	-.513	.203	.109	-1.238
60	928	-.437	.150	.042	-1.155
60	929	-.320	.115	.018	-.755
70	1	-.058	.121	.328	-.710
70	2	-.007	.105	.352	-.395
70	3	.020	.102	.351	-.369
70	4	.032	.092	.316	-.311
70	5	.078	.094	.444	-.255
70	6	.071	.104	.425	-.233
70	7	.101	.112	.522	-.254
70	8	.037	.115	.450	-.315
70	9	-.016	.087	.283	-.286
70	10	-.091	.102	.257	-.415
70	11	-.202	.106	.124	-.625
70	12	-.130	.099	.236	-.453
70	13	-.232	.104	.113	-.546
70	14	-.298	.123	.175	-.712
70	15	-.163	.140	.317	-.730
70	16	-.168	.139	.291	-.735
70	101	-.270	.105	.070	-.601
70	102	-.298	.117	.063	-.664
70	103	-.405	.160	.102	-.989
70	104	-.630	.205	-.024	-1.431
70	105	-.098	.124	.301	-.530
70	106	-.017	.137	.451	-.512
70	107	.110	.138	.607	-.328
70	108	.122	.134	.672	-.296
70	109	.164	.156	.719	-.310
70	110	.272	.144	.731	-.189
70	111	.233	.160	.733	-.314
70	112	.074	.157	.551	-.522
70	113	-.139	.137	.328	-.630
70	114	-.429	.130	-.043	-1.061
70	115	-.469	.164	-.010	-1.150
70	116	-.204	.121	.158	-.939
70	117	-.211	.107	.143	-.686
70	118	-.166	.095	.158	-.477
70	119	-.237	.103	.099	-.595
70	120	-.251	.102	.076	-.572
70	121	-.323	.113	.026	-.679
70	122	-.274	.090	.031	-.568
70	123	-.332	.100	.022	-.711
70	124	-.303	.099	.041	-.647
70	125	-.313	.100	-.000	-.734
70	126	-.229	.125	.138	-.899
70	127	-.728	.216	-.089	-1.457
70	128	-.691	.202	-.091	-1.367
70	129	-.219	.153	.310	-.701
70	130	.090	.124	.475	-.311
70	131	.293	.147	.754	-.187
70	132	.434	.144	.990	.005
70	133	.507	.173	1.006	-.038
70	134	.521	.151	.982	.037
70	135	.430	.167	.980	-.064
70	136	.171	.206	.835	-.792
70	137	-.005	.167	.606	-.578
70	138	-.275	.161	.222	-.890
70	139	-.335	.187	.258	-1.077
70	141	-.030	.106	.339	-.542
70	142	-.042	.103	.368	-.368
70	143	-.195	.110	.238	-.547
70	144	-.233	.109	.183	-.598
70	145	-.324	.114	.083	-.690
70	146	-.274	.091	.094	-.550
70	147	-.347	.101	.072	-.648
70	148	-.316	.099	.083	-.642
70	149	-.313	.109	.122	-.875
70	150	-.222	.105	.083	-.704
70	151	-.731	.206	-.070	-1.580
70	152	-.690	.187	-.176	-1.451
70	153	-.219	.136	.283	-.601
70	154	.061	.118	.436	-.397
70	155	.230	.135	.725	-.347
70	156	.455	.146	1.000	-.097
70	157	.424	.156	.976	-.123
70	158	.413	.136	.909	-.100
70	159	.197	.207	.698	-.600
70	160	.099	.157	.558	-.409
70	161	-.271	.203	.427	-1.038
70	162	-.308	.190	.315	-1.169
70	163	-.060	.175	.369	-1.062
70	164	-.061	.097	.221	-.357
70	165	-.169	.097	.132	-.482
70	166	-.271	.095	.055	-.645
70	167	-.334	.103	.013	-.725
70	168	-.331	.104	.031	-.723
70	169	-.335	.106	.034	-.754
70	170	-.399	.107	-.015	-.760
70	171	-.327	.112	.069	-.961
70	172	-.299	.121	.088	-.860
70	173	-.698	.215	.071	-1.391
70	174	-.729	.189	-.081	-1.336
70	175	-.209	.137	.274	-.624
70	176	.004	.132	.581	-.456
70	177	.198	.142	.841	-.264
70	178	.308	.148	.795	-.152
70	179	.390	.154	.897	-.082
70	180	.390	.154	.895	-.083
70	181	.349	.160	.876	-.112
70	182	.142	.185	.638	-.634
70	183	.050	.154	.513	-.512
70	184	-.212	.193	.370	-.982
70	185	-.200	.202	.379	-.947
70	186	-.014	.154	.443	-.721
70	187	.025	.110	.385	-.376
70	188	-.043	.103	.289	-.395
70	189	-.157	.106	.181	-.561
70	190	-.291	.109	.041	-.658
70	191	-.361	.127	-.011	-1.013
70	192	-.359	.128	-.007	-1.018
70	193	-.364	.132	-.027	-1.087
70	194	-.421	.126	-.027	-1.136
70	195	-.344	.109	.026	-.878
70	196	-.310	.111	.053	-.976
70	197	-.596	.225	.024	-1.502
70	198	-.680	.196	-.128	-1.527
70	199	-.279	.147	.289	-.893
70	200	-.054	.134	.454	-.526
70	201	.144	.137	.629	-.290
70	202	.295	.129	.919	-.150
70	203	.311	.130	.912	-.173
70	204	.285	.134	.838	-.181
70	205	.195	.165	.726	-.445
70	206	.051	.138	.503	-.440
70	207	-.193	.176	.431	-.931
70	208	-.091	.179	.447	-.755
70	209	.004	.151	.461	-.876
70	210	-.103	.103	.241	-.439
70	211	-.194	.117	.143	-.640
70	212	-.286	.138	.089	-.856

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	213	-.411	.181	.004	-1.192
70	214	-.465	.181	-.047	-1.437
70	215	-.427	.180	.022	-1.227
70	216	-.383	.186	.053	-1.247
70	217	-.375	.119	-.011	-.818
70	218	-.367	.119	.051	-.814
70	219	-.627	.228	.139	-1.406
70	220	-.644	.210	.080	-1.377
70	221	-.231	.145	.315	-.736
70	222	-.094	.125	.450	-.499
70	223	.099	.127	.729	-.283
70	224	.212	.133	.839	-.152
70	225	.259	.140	.869	-.118
70	226	.288	.135	.797	-.124
70	227	.264	.137	.815	-.250
70	228	.167	.150	.664	-.517
70	229	.036	.136	.482	-.484
70	230	-.144	.157	.564	-.788
70	231	-.096	.173	.647	-.780
70	232	.034	.119	.589	-.538
70	233	.015	.103	.522	-.378
70	234	-.098	.106	.268	-.439
70	235	-.176	.127	.245	-.645
70	236	-.265	.151	.193	-.881
70	237	-.404	.218	.146	-1.374
70	238	-.311	.162	.159	-1.125
70	239	-.387	.164	.126	-1.194
70	240	-.327	.160	.145	-1.072
70	241	-.393	.115	-.036	-.800
70	242	-.338	.123	.019	-.796
70	243	-.730	.253	.034	-1.717
70	244	-.667	.217	.014	-1.578
70	245	-.240	.133	.229	-.694
70	246	-.101	.111	.280	-.515
70	247	-.022	.117	.379	-.416
70	248	.169	.120	.644	-.197
70	249	.174	.121	.669	-.296
70	250	.180	.126	.682	-.343
70	251	.091	.139	.583	-.547
70	252	.080	.126	.565	-.499
70	253	-.043	.157	.400	-.652
70	254	.015	.150	.439	-.564
70	255	.052	.100	.361	-.259
70	256	-.058	.107	.299	-.398
70	257	-.195	.118	.173	-.725
70	258	-.260	.146	.171	-1.051
70	259	-.462	.204	.046	-1.747
70	260	-.397	.210	.139	-1.256
70	261	-.387	.169	.055	-1.266
70	262	-.366	.174	.163	-1.178
70	263	-.531	.153	-.125	-1.354
70	264	-.406	.138	.006	-.952
70	265	-.468	.170	.025	-1.453
70	266	-.436	.176	.090	-1.322
70	267	-.278	.134	.161	-.915
70	268	-.020	.110	.354	-.350
70	269	.052	.110	.483	-.285
70	270	.170	.119	.690	-.205
70	271	.142	.126	.684	-.253
70	272	.179	.114	.641	-.173
70	273	.144	.116	.580	-.198
70	274	.143	.121	.589	-.423
70	275	.067	.117	.485	-.294
70	276	.092	.113	.481	-.283
70	277	.090	.112	.490	-.374
70	278	.133	.104	.483	-.232
70	279	.101	.116	.585	-.353
70	280	-.124	.108	.243	-.504
70	281	-.167	.114	.181	-.565
70	282	-.228	.133	.139	-.710
70	283	-.372	.149	.045	-.913
70	284	-.302	.144	.070	-.893
70	285	-.342	.189	.193	-1.063
70	286	-.312	.177	.101	-1.271
70	301	-.329	.098	-.012	-.646
70	302	-.314	.104	.042	-.688
70	303	-.314	.105	.034	-.680
70	304	-.322	.109	.048	-.737
70	305	-.368	.108	.015	-.877
70	306	-.370	.119	.066	-1.277
70	307	-.369	.113	.009	-.862
70	308	-.355	.112	.036	-.830
70	309	-.348	.106	-.008	-.691
70	310	-.329	.107	.022	-.684
70	311	-.334	.108	-.010	-.711
70	312	-.360	.104	-.026	-.732
70	313	-.345	.103	-.029	-.731
70	314	-.337	.105	-.006	-.724
70	315	-.337	.107	.000	-.733
70	316	-.333	.106	-.003	-.728
70	317	-.338	.095	-.041	-.648
70	318	-.334	.100	.000	-.653
70	319	-.344	.102	-.017	-.686
70	320	-.305	.092	-.029	-.615
70	321	-.364	.100	-.041	-.762
70	322	-.353	.105	.022	-.768
70	323	-.357	.105	.033	-.773
70	324	-.349	.104	.038	-.751
70	325	-.343	.097	.027	-.715
70	326	-.329	.101	.046	-.734
70	327	-.318	.099	.033	-.663
70	328	-.310	.098	.036	-.652
70	329	-.329	.096	.027	-.677
70	330	-.323	.100	.044	-.696
70	331	-.329	.098	.027	-.664
70	332	-.330	.100	.016	-.675
70	333	-.344	.092	-.039	-.626
70	334	-.336	.098	-.022	-.649
70	335	-.345	.099	-.006	-.686
70	336	-.347	.097	.005	-.659
70	337	-.353	.095	.003	-.693
70	338	-.342	.098	.044	-.652
70	339	-.336	.095	.047	-.628
70	340	-.327	.095	.070	-.625
70	341	-.338	.088	-.074	-.667
70	342	-.329	.092	-.052	-.652
70	343	-.328	.093	-.042	-.660
70	344	-.325	.093	-.041	-.657
70	345	-.338	.101	.025	-.905
70	346	-.321	.103	.047	-.871
70	347	-.298	.098	.017	-.725
70	348	-.328	.101	.032	-.823
70	349	-.353	.101	-.041	-.700
70	350	-.345	.107	-.034	-.691
70	351	-.351	.108	-.025	-.751
70	352	-.354	.110	.043	-.830
70	353	-.346	.105	-.045	-.834
70	354	-.340	.108	-.017	-.808
70	355	-.355	.110	-.040	-.884
70	356	-.347	.106	-.031	-.751
70	357	-.351	.105	-.005	-.908
70	358	-.337	.107	.018	-.975
70	359	-.338	.106	.012	-.756
70	360	-.330	.107	.024	-.741
70	361	-.329	.093	.000	-.621
70	362	-.322	.098	.016	-.636
70	363	-.371	.137	-.034	-1.023
70	364	-.351	.127	-.018	-.882
70	365	-.374	.125	-.048	-.886
70	366	-.377	.132	-.013	-.985
70	367	-.388	.128	-.061	-.891
70	368	-.374	.122	-.012	-.902
70	369	-.362	.104	-.062	-.757
70	370	-.361	.108	.048	-.761
70	371	-.373	.112	-.035	-.872
70	372	-.365	.107	-.004	-.922
70	373	-.401	.120	-.052	-1.181
70	374	-.385	.119	-.026	-1.217
70	375	-.377	.111	-.022	-.918
70	376	-.353	.103	-.027	-.733

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	377	-.363	.108	.002	-.851
70	378	-.349	.112	.038	-.793
70	379	-.331	.110	.044	-.772
70	380	-.331	.110	.036	-.773
70	381	-.396	.155	.073	-1.176
70	382	-.378	.157	.093	-1.192
70	383	-.373	.152	.079	-1.047
70	384	-.382	.154	.090	-1.095
70	385	-.345	.156	.115	-1.048
70	386	-.332	.131	.176	-.957
70	387	-.368	.135	.062	-1.068
70	388	-.381	.135	.112	-1.080
70	389	-.440	.144	.012	-1.395
70	390	-.427	.141	.025	-1.302
70	391	-.439	.152	.035	-1.535
70	392	-.426	.142	.027	-1.397
70	393	-.440	.124	-.046	-1.220
70	394	-.410	.120	-.034	-.969
70	395	-.382	.112	.001	-.827
70	396	-.374	.112	.012	-.769
70	397	-.379	.105	-.023	-.779
70	398	-.371	.111	.009	-.782
70	399	-.390	.202	.118	-1.411
70	400	-.379	.201	.105	-1.320
70	401	-.396	.183	.109	-1.532
70	402	-.412	.197	.209	-1.566
70	403	-.393	.180	.132	-1.299
70	404	-.364	.143	.312	-.875
70	405	-.371	.135	.178	-.924
70	406	-.403	.148	.075	-.860
70	407	-.445	.166	.040	-1.092
70	408	-.432	.147	.019	-1.042
70	409	-.462	.146	-.073	-1.627
70	410	-.449	.143	-.009	-1.173
70	411	-.422	.135	-.013	-.970
70	412	-.403	.122	-.022	-.804
70	413	-.401	.111	.023	-.812
70	414	-.357	.112	.015	-.732
70	415	-.386	.113	.020	-.796
70	416	-.382	.114	.012	-.800
70	417	-.291	.152	.202	-.865
70	418	-.281	.161	.201	-.925
70	419	-.296	.170	.195	-.966
70	420	-.313	.169	.156	-.974
70	421	-.301	.152	.185	-1.045
70	422	-.306	.144	.293	-.858
70	423	-.010	.114	.395	-.410
70	424	-.378	.140	.140	-.926
70	425	-.442	.156	.072	-1.236
70	426	-.469	.159	.146	-1.247
70	427	-.497	.164	.044	-1.413
70	428	-.486	.158	.035	-1.281
70	429	-.485	.157	-.002	-1.217
70	430	-.479	.156	-.006	-1.269
70	431	-.361	.126	.001	-.925
70	432	-.443	.140	.008	-1.182
70	433	-.452	.128	-.077	-1.059
70	434	-.461	.135	-.034	-1.131
70	435	-.317	.191	.194	-1.796
70	436	-.364	.249	.305	-1.582
70	437	-.329	.184	.107	-1.206
70	438	-.368	.200	.114	-1.362
70	439	-.254	.141	.233	-1.085
70	440	-.223	.132	.238	-.631
70	441	-.208	.123	.205	-.699
70	442	-.223	.146	.255	-.759
70	443	-.224	.137	.231	-.754
70	444	-.228	.148	.248	-.858
70	445	-.166	.127	.246	-.672
70	446	-.162	.159	.425	-.677
70	447	-.257	.149	.350	-.715
70	448	-.399	.139	.214	-.925
70	449	-.525	.165	-.063	-1.220
70	450	-.531	.166	-.073	-1.222
70	451	-.382	.154	.053	-1.037
70	452	-.406	.154	.043	-1.059
70	453	-.383	.240	.156	-1.551
70	454	-.255	.180	.286	-1.109
70	455	-.201	.169	.188	-1.076
70	456	-.413	.158	.073	-1.270
70	457	-.413	.180	.029	-1.445
70	801	-.033	.096	.287	-.422
70	901	-.516	.143	-.018	-1.092
70	902	-.463	.143	.031	-1.153
70	903	-.562	.138	-.093	-1.217
70	904	-.491	.139	-.052	-1.071
70	905	-.465	.135	.086	-1.002
70	906	-.305	.122	.153	-.820
70	907	-.551	.152	-.054	-1.269
70	908	-.489	.154	-.029	-1.419
70	909	-.167	.139	.331	-.633
70	910	-.407	.144	.112	-.941
70	911	-.425	.115	-.023	-.832
70	912	-.353	.104	.020	-.733
70	913	-.368	.105	.039	-.819
70	914	-.341	.106	.057	-.793
70	915	-.029	.109	.339	-.478
70	916	.121	.106	.502	-.301
70	917	.178	.121	.651	-.200
70	918	.181	.112	.694	-.167
70	919	.012	.114	.461	-.505
70	919	.012	.114	.461	-.505
70	920	.159	.113	.613	-.188
70	921	-.025	.110	.324	-.600
70	922	-.107	.103	.246	-.469
70	923	.068	.112	.584	-.347
70	924	.086	.105	.612	-.324
70	925	-.179	.139	.231	-.664
70	926	-.075	.122	.386	-.514
70	927	-.479	.218	.064	-1.396
70	928	-.443	.148	-.009	-1.119
70	929	-.320	.104	.047	-.718
80	1	.028	.127	.500	-.560
80	2	.049	.116	.498	-.363
80	3	.047	.113	.394	-.455
80	4	.020	.093	.349	-.341
80	5	.085	.092	.420	-.194
80	6	.055	.104	.446	-.301
80	7	.071	.112	.481	-.274
80	8	.026	.121	.405	-.354
80	9	-.005	.100	.336	-.303
80	10	-.092	.124	.289	-.504
80	11	-.134	.108	.236	-.454
80	12	-.118	.112	.291	-.461
80	13	-.167	.099	.173	-.621
80	14	-.194	.123	.178	-.701
80	15	-.084	.133	.315	-.659
80	16	-.090	.137	.361	-.584
80	101	-.203	.105	.181	-.577
80	102	-.205	.120	.257	-.618
80	103	-.224	.170	.336	-.861
80	104	-.368	.193	.315	-1.094
80	105	.052	.138	.575	-.377
80	106	.093	.154	.717	-.372
80	107	.192	.150	.857	-.263
80	108	.170	.139	.685	-.280
80	109	.204	.160	.721	-.306
80	110	.272	.139	.757	-.225
80	111	.160	.152	.740	-.341
80	112	-.155	.171	.410	-.906
80	113	-.329	.132	.136	-.788
80	114	-.519	.153	-.112	-1.038
80	115	-.581	.160	-.131	-1.140
80	116	-.361	.150	.048	-.902
80	117	-.271	.124	.095	-.825
80	118	-.172	.102	.266	-.591
80	119	-.244	.110	.175	-.650
80	120	-.242	.109	.193	-.618
80	121	-.315	.124	.197	-.789
80	122	-.243	.109	.093	-.812

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	123	-.297	.117	.092	-.802
80	124	-.258	.113	.125	-.723
80	125	-.236	.107	.204	-.556
80	126	-.095	.094	.204	-.407
80	127	-.362	.211	.377	-1.117
80	128	-.352	.185	.376	-.995
80	129	.027	.154	.644	-.418
80	130	.279	.138	.761	-.114
80	131	.415	.161	.987	-.046
80	132	.484	.157	1.027	-.013
80	133	.492	.170	1.028	-.048
80	134	.401	.153	.964	-.131
80	135	.204	.174	.814	-.489
80	136	-.261	.267	.439	-1.492
80	137	-.263	.138	.241	-.820
80	138	-.453	.155	.051	-1.163
80	139	-.543	.175	.016	-1.342
80	141	-.190	.185	.275	-1.224
80	142	-.094	.110	.256	-.577
80	143	-.221	.112	.160	-.650
80	144	-.237	.110	.130	-.601
80	145	-.326	.119	.042	-.735
80	146	-.250	.112	.090	-.708
80	147	-.318	.121	.074	-.775
80	148	-.282	.119	.098	-.800
80	149	-.254	.118	.126	-.725
80	150	-.099	.095	.226	-.424
80	151	-.369	.215	.367	-1.077
80	152	-.363	.188	.350	-1.184
80	153	.015	.145	.532	-.431
80	154	.261	.135	.782	-.237
80	155	.368	.157	.904	-.237
80	156	.448	.147	.980	.016
80	157	.321	.144	.852	-.107
80	158	.233	.155	.806	-.294
80	159	-.210	.253	.570	-1.191
80	160	-.134	.139	.283	-.692
80	161	-.501	.171	-.017	-1.170
80	162	-.579	.187	.028	-1.146
80	163	-.434	.236	.287	-1.230
80	164	-.126	.123	.262	-1.005
80	165	-.201	.116	.190	-.680
80	166	-.271	.115	.126	-.647
80	167	-.342	.130	.053	-.902
80	168	-.336	.131	.055	-.931
80	169	-.327	.127	.084	-1.004
80	170	-.367	.116	-.006	-.835
80	171	-.282	.115	.086	-.685
80	172	-.196	.115	.184	-.625
80	173	-.339	.234	.356	-1.124
80	174	-.391	.198	.260	-1.021
80	175	.018	.156	.673	-.428
80	176	.177	.152	.797	-.315
80	177	.310	.160	1.033	-.198
80	178	.404	.160	1.212	-.125
80	179	.391	.157	1.150	-.059
80	180	.293	.151	.927	-.145
80	181	.138	.170	.749	-.505
80	182	-.230	.276	.510	-1.298
80	183	-.184	.169	.283	-.850
80	184	-.462	.209	.199	-1.255
80	185	-.465	.215	.213	-1.334
80	186	-.292	.222	.282	-.940
80	187	-.097	.154	.321	-.836
80	188	-.089	.110	.267	-.544
80	189	-.179	.110	.213	-.630
80	190	-.280	.122	.152	-.766
80	191	-.355	.147	.075	-1.007
80	192	-.353	.147	.071	-1.011
80	193	-.344	.141	.061	-1.080
80	194	-.395	.141	.104	-.966
80	195	-.316	.118	.065	-.736
80	196	-.225	.118	.174	-.649
80	197	-.250	.210	.370	-1.248
80	198	-.374	.188	.334	-1.094
80	199	-.061	.149	.487	-.532
80	200	.114	.138	.620	-.363
80	201	.256	.144	.830	-.243
80	202	.325	.147	.818	-.101
80	203	.241	.144	.761	-.265
80	204	.116	.159	.740	-.500
80	205	-.156	.247	.603	-1.315
80	206	-.135	.148	.380	-.815
80	207	-.380	.189	.278	-1.319
80	208	-.295	.188	.250	-.926
80	209	-.230	.229	.334	-1.139
80	210	-.105	.107	.216	-.663
80	211	-.199	.121	.141	-.678
80	212	-.286	.143	.132	-.909
80	213	-.410	.190	.085	-1.374
80	214	-.452	.187	.079	-1.400
80	215	-.409	.175	.139	-1.224
80	216	-.359	.178	.173	-1.375
80	217	-.332	.121	.065	-.707
80	218	-.268	.117	.182	-.681
80	219	-.311	.233	.410	-1.141
80	220	-.365	.220	.347	-1.261
80	221	-.034	.167	.621	-.618
80	222	.085	.146	.583	-.388
80	223	.191	.145	.722	-.318
80	224	.251	.141	.745	-.247
80	225	.249	.140	.787	-.239
80	226	.219	.143	.707	-.238
80	227	.126	.161	.699	-.467
80	228	-.044	.213	.569	-1.159
80	229	-.101	.156	.432	-.709
80	230	-.273	.211	.385	-1.100
80	231	-.251	.232	.407	-1.124
80	232	-.109	.207	.379	-1.062
80	233	-.045	.136	.389	-.779
80	234	-.097	.114	.377	-.520
80	235	-.192	.136	.312	-.685
80	236	-.279	.159	.232	-.900
80	237	-.428	.230	.167	-1.347
80	238	-.308	.193	.248	-1.271
80	239	-.390	.181	.158	-1.196
80	240	-.312	.169	.206	-1.055
80	241	-.293	.112	.100	-.699
80	242	-.205	.115	.223	-.617
80	243	-.369	.221	.272	-1.338
80	244	-.335	.202	.301	-1.186
80	245	-.101	.133	.353	-.521
80	246	.033	.131	.507	-.384
80	247	.046	.131	.581	-.355
80	248	.162	.114	.655	-.175
80	249	.128	.116	.531	-.293
80	250	.111	.133	.566	-.583
80	251	-.048	.195	.449	-1.208
80	252	-.002	.144	.463	-.734
80	253	-.194	.195	.391	-1.126
80	254	-.122	.201	.435	-1.253
80	255	-.036	.118	.320	-.527
80	256	-.066	.110	.282	-.494
80	257	-.175	.119	.221	-.601
80	258	-.204	.140	.234	-.750
80	259	-.385	.184	.105	-1.168
80	260	-.309	.205	.209	-1.475
80	261	-.291	.151	.138	-.875
80	262	-.256	.154	.189	-.972
80	263	-.456	.153	-.014	-1.254
80	264	-.262	.133	.278	-.885
80	265	-.254	.175	.329	-.867
80	266	-.209	.177	.326	-.770
80	267	-.116	.146	.365	-.572
80	268	.063	.111	.455	-.277
80	269	.138	.123	.695	-.288
80	270	.228	.125	.758	-.217
80	271	.154	.127	.627	-.303
80	272	.168	.112	.530	-.220
80	273	.104	.124	.512	-.422

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	274	.058	.167	.561	-.928
80	275	-.008	.133	.465	-.645
80	276	.015	.134	.493	-.652
80	277	.018	.132	.463	-.485
80	278	.106	.110	.509	-.323
80	279	.091	.122	.496	-.310
80	280	-.122	.108	.221	-.519
80	281	-.151	.109	.226	-.485
80	282	-.170	.118	.187	-.582
80	283	-.297	.126	.121	-.806
80	284	-.219	.118	.145	-.689
80	285	-.246	.167	.192	-.874
80	286	-.254	.153	.173	-.871
80	301	-.296	.104	.013	-.735
80	302	-.291	.110	.073	-.661
80	303	-.305	.111	.065	-.702
80	304	-.326	.112	.082	-.694
80	305	-.348	.107	.067	-.744
80	306	-.351	.115	.016	-1.035
80	307	-.358	.107	.027	-.736
80	308	-.346	.106	.029	-.696
80	309	-.327	.106	.060	-.754
80	310	-.326	.113	.024	-.712
80	311	-.345	.115	.037	-.734
80	312	-.353	.110	.010	-.717
80	313	-.316	.093	-.024	-.640
80	314	-.320	.095	-.008	-.683
80	315	-.331	.098	-.028	-.704
80	316	-.322	.097	-.025	-.687
80	317	-.285	.095	.086	-.653
80	318	-.301	.100	.066	-.700
80	319	-.321	.104	.011	-.713
80	320	-.348	.095	-.056	-.675
80	321	-.344	.108	-.000	-.732
80	322	-.332	.104	.102	-.683
80	323	-.345	.106	.073	-.698
80	324	-.333	.106	.102	-.678
80	325	-.311	.101	.080	-.701
80	326	-.314	.105	.098	-.731
80	327	-.308	.108	.055	-.657
80	328	-.294	.106	.060	-.642
80	329	-.293	.096	.104	-.600
80	330	-.308	.101	.110	-.655
80	331	-.324	.100	.091	-.649
80	332	-.319	.103	.124	-.693
80	333	-.300	.101	.023	-.684
80	334	-.319	.107	.032	-.732
80	335	-.354	.113	.027	-.875
80	336	-.353	.113	.019	-.964
80	337	-.340	.106	.037	-.823
80	338	-.350	.109	.050	-.798
80	339	-.351	.105	.052	-.718
80	340	-.336	.104	.099	-.670
80	341	-.310	.094	-.016	-.664
80	342	-.327	.098	-.029	-.686
80	343	-.337	.100	-.018	-.700
80	344	-.331	.099	-.022	-.687
80	345	-.285	.099	.061	-.697
80	346	-.297	.102	.045	-.706
80	347	-.276	.098	.064	-.689
80	348	-.310	.101	.020	-.723
80	349	-.278	.097	.057	-.650
80	350	-.299	.100	.057	-.617
80	351	-.319	.102	.039	-.627
80	352	-.323	.104	.005	-.697
80	353	-.289	.105	.004	-.754
80	354	-.314	.109	.013	-.790
80	355	-.345	.114	-.004	-.927
80	356	-.331	.109	-.002	-.867
80	357	-.295	.103	.003	-.678
80	358	-.314	.105	.011	-.674
80	359	-.327	.105	-.013	-.677
80	360	-.315	.105	.009	-.654
80	361	-.274	.095	.057	-.614
80	362	-.302	.101	.060	-.657
80	363	-.335	.132	.048	-1.048
80	364	-.315	.124	.055	-.928
80	365	-.285	.114	.089	-.811
80	366	-.322	.122	.054	-.942
80	367	-.347	.121	.112	-1.010
80	368	-.337	.116	.070	-.949
80	369	-.297	.103	.101	-.709
80	370	-.341	.114	.071	-.801
80	371	-.380	.133	.020	-.931
80	372	-.371	.129	.070	-.906
80	373	-.329	.124	.008	-.918
80	374	-.351	.122	-.012	-.888
80	375	-.355	.113	-.016	-.925
80	376	-.332	.105	.001	-.767
80	377	-.290	.107	.037	-.677
80	378	-.330	.116	.024	-.755
80	379	-.346	.116	.006	-.774
80	380	-.324	.114	.030	-.738
80	381	-.307	.133	.071	-1.127
80	382	-.340	.140	.062	-.850
80	383	-.368	.141	.041	-.903
80	384	-.360	.143	.030	-.934
80	385	-.252	.139	.115	-1.067
80	386	-.306	.121	.057	-.786
80	387	-.362	.135	.046	-.841
80	388	-.363	.141	.109	-.899
80	389	-.340	.136	.013	-.991
80	390	-.386	.141	.007	-.973
80	391	-.443	.162	-.039	-1.445
80	392	-.410	.146	-.022	-1.151
80	393	-.346	.119	.046	-.941
80	394	-.375	.119	.004	-1.085
80	395	-.383	.113	-.035	-.791
80	396	-.358	.110	-.011	-.752
80	397	-.307	.113	.009	-.713
80	398	-.353	.124	-.006	-.767
80	399	-.354	.183	.143	-1.120
80	400	-.329	.180	.124	-1.152
80	401	-.299	.177	.192	-1.105
80	402	-.365	.197	.099	-1.278
80	403	-.351	.169	.133	-1.333
80	404	-.296	.127	.135	-.816
80	405	-.264	.126	.116	-.787
80	406	-.347	.140	.145	-.922
80	407	-.415	.159	.083	-1.056
80	408	-.389	.146	.087	-.923
80	409	-.325	.137	.223	-.974
80	410	-.372	.142	.184	-.915
80	411	-.401	.140	.087	-1.024
80	412	-.389	.127	-.007	-.949
80	413	-.317	.116	-.010	-.873
80	414	-.350	.116	.010	-.788
80	415	-.388	.121	-.023	-.846
80	416	-.367	.120	-.003	-.835
80	417	-.165	.130	.230	-.658
80	418	-.208	.140	.238	-.850
80	419	-.234	.142	.178	-.882
80	420	-.238	.135	.167	-.835
80	421	-.171	.116	.217	-.780
80	422	-.270	.135	.301	-.790
80	423	.016	.109	.452	-.425
80	424	-.313	.131	.072	-.847
80	425	-.280	.136	.172	-.852
80	426	-.384	.165	.225	-1.144
80	427	-.408	.170	.097	-1.167
80	428	-.390	.171	.105	-1.151
80	429	-.322	.151	.256	-.954
80	430	-.421	.153	.121	-1.538
80	431	-.383	.120	.038	-.765
80	432	-.406	.135	.105	-.949
80	433	-.315	.119	.025	-.792
80	434	-.377	.131	.079	-.926
80	435	-.218	.125	.170	-.721
80	436	-.263	.204	.238	-1.325
80	437	-.121	.112	.201	-.634

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
80	438	-.196	.125	.204	-.752
80	439	-.189	.111	.328	-.622
80	440	-.162	.109	.199	-.535
80	441	-.101	.104	.266	-.581
80	442	-.163	.126	.213	-.784
80	443	-.194	.125	.175	-.870
80	444	-.184	.131	.197	-.916
80	445	-.027	.108	.381	-.400
80	446	-.004	.132	.618	-.485
80	447	-.104	.144	.583	-.670
80	448	-.272	.152	.263	-.880
80	449	-.328	.146	.089	-.974
80	450	-.417	.153	.021	-1.139
80	451	-.419	.164	.010	-1.155
80	452	-.440	.163	-.003	-1.239
80	453	-.296	.203	.217	-1.398
80	454	-.201	.170	.413	-1.043
80	455	-.193	.175	.236	-1.111
80	456	-.402	.164	-.005	-1.383
80	457	-.491	.180	.035	-1.122
80	801	-.007	.094	.344	-.362
80	901	-.481	.138	-.054	-1.255
80	902	-.456	.142	-.014	-1.438
80	903	-.534	.131	-.086	-.943
80	904	-.456	.127	-.043	-1.021
80	905	-.424	.153	.145	-1.019
80	906	-.271	.141	.206	-.872
80	907	-.558	.148	-.019	-1.189
80	908	-.495	.150	.017	-1.278
80	909	-.254	.140	.226	-.851
80	910	-.412	.123	.045	-.853
80	911	-.437	.115	-.001	-.824
80	912	-.342	.100	-.016	-.656
80	913	-.386	.112	.029	-.780
80	914	-.338	.113	.086	-.719
80	915	-.060	.113	.375	-.505
80	916	.101	.108	.481	-.282
80	917	.109	.119	.564	-.411
80	918	.191	.108	.764	-.140
80	919	.050	.112	.483	-.379
80	919	.050	.112	.483	-.379
80	920	.179	.111	.775	-.139
80	921	.021	.122	.565	-.452
80	922	-.103	.098	.200	-.447
80	923	.110	.119	.559	-.296
80	924	.142	.107	.519	-.246
80	925	-.135	.138	.344	-.616
80	926	.047	.131	.528	-.353
80	927	-.339	.170	.217	-1.253
80	928	-.343	.144	.051	-.839
80	929	-.328	.105	.070	-.689
90	1	.054	.126	.622	-.475
90	2	.089	.116	.592	-.404
90	3	.067	.107	.463	-.430
90	4	.021	.097	.349	-.378
90	5	.044	.091	.330	-.269
90	6	.055	.095	.344	-.259
90	7	.008	.102	.400	-.314
90	8	-.050	.110	.363	-.447
90	9	-.073	.097	.282	-.405
90	10	-.140	.112	.223	-.533
90	11	-.152	.102	.181	-.515
90	12	-.126	.103	.241	-.492
90	13	-.136	.101	.160	-.514
90	14	-.068	.114	.387	-.548
90	15	-.016	.123	.385	-.534
90	16	.013	.121	.406	-.706
90	101	-.156	.104	.198	-.503
90	102	-.081	.116	.305	-.438
90	103	-.048	.135	.436	-.648
90	104	-.102	.166	.456	-.627
90	105	.147	.137	.620	-.322
90	106	.182	.144	.674	-.356
90	107	.209	.143	.674	-.394
90	108	.173	.138	.649	-.267
90	109	.179	.144	.682	-.394
90	110	.150	.149	.674	-.380
90	111	.007	.155	.550	-.557
90	112	-.504	.203	.128	-1.494
90	113	-.484	.148	.030	-1.065
90	114	-.707	.205	-.129	-1.518
90	115	-.583	.185	-.037	-1.591
90	116	-.496	.180	.058	-1.284
90	117	-.398	.176	.147	-1.050
90	118	-.287	.138	.147	-.804
90	119	-.279	.137	.217	-.876
90	120	-.301	.135	.161	-.763
90	121	-.343	.162	.142	-1.289
90	122	-.306	.136	.138	-.923
90	123	-.282	.134	.168	-.802
90	124	-.277	.130	.176	-.713
90	125	-.161	.112	.182	-.522
90	126	-.017	.106	.305	-.387
90	127	.018	.194	.516	-.702
90	128	-.036	.191	.512	-.819
90	129	.271	.159	.787	-.302
90	130	.420	.159	.980	-.120
90	131	.509	.174	1.151	-.083
90	132	.452	.166	.969	-.026
90	133	.418	.166	.949	-.075
90	134	.219	.133	.766	-.230
90	135	-.056	.155	.604	-.642
90	136	-.744	.284	.206	-1.732
90	137	-.448	.164	-.004	-1.282
90	138	-.642	.157	-.160	-1.239
90	139	-.655	.163	-.131	-1.349
90	141	-.519	.186	.140	-1.268
90	142	-.308	.157	.160	-.886
90	143	-.288	.144	.142	-.901
90	144	-.302	.138	.098	-.915
90	145	-.341	.144	.075	-.863
90	146	-.301	.131	.102	-.782
90	147	-.276	.130	.130	-.801
90	148	-.275	.131	.090	-.785
90	149	-.177	.118	.237	-.597
90	150	-.046	.111	.356	-.463
90	151	-.013	.195	.610	-.806
90	152	-.072	.190	.531	-.693
90	153	.228	.163	.836	-.421
90	154	.375	.147	.797	-.110
90	155	.452	.160	.929	-.077
90	156	.373	.148	.855	-.105
90	157	.163	.148	.656	-.301
90	158	-.076	.179	.551	-.868
90	159	-.729	.315	.191	-2.269
90	160	-.415	.215	.167	-1.693
90	161	-.656	.182	-.114	-1.351
90	162	-.620	.162	-.119	-1.339
90	163	-.606	.176	.111	-1.319
90	164	-.291	.190	.193	-1.061
90	165	-.271	.161	.193	-.993
90	166	-.285	.143	.148	-.794
90	167	-.353	.151	.065	-.967
90	168	-.331	.147	.082	-.857
90	169	-.292	.138	.121	-.819
90	170	-.291	.136	.116	-1.003
90	171	-.219	.124	.153	-.708
90	172	-.088	.122	.261	-.571
90	173	.017	.177	.532	-.732
90	174	-.054	.177	.512	-.680
90	175	.221	.152	.827	-.233
90	176	.332	.151	.891	-.090
90	177	.411	.158	.950	-.037
90	178	.370	.140	.816	-.104
90	179	.284	.137	.713	-.214
90	180	.127	.137	.613	-.321
90	181	-.093	.165	.463	-.671
90	182	-.607	.270	.181	-1.481
90	183	-.387	.172	.078	-1.286
90	184	-.592	.179	-.046	-1.350

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	185	-.593	.179	-.041	-1.316
90	186	-.549	.188	.152	-1.269
90	187	-.392	.216	.221	-1.126
90	188	-.246	.182	.256	-.958
90	189	-.255	.159	.246	-.940
90	190	-.274	.133	.178	-.965
90	191	-.361	.158	.128	-1.109
90	192	-.348	.156	.130	-.992
90	193	-.304	.142	.172	-.816
90	194	-.277	.138	.137	-.928
90	195	-.244	.115	.198	-.706
90	196	-.123	.114	.402	-.545
90	197	-.016	.157	.690	-.715
90	198	-.004	.161	.484	-.578
90	199	.173	.146	.673	-.307
90	200	.273	.138	.783	-.179
90	201	.346	.140	.857	-.119
90	202	.279	.130	.734	-.155
90	203	.107	.138	.624	-.345
90	204	-.095	.166	.455	-.647
90	205	-.492	.268	.369	-1.417
90	206	-.304	.168	.161	-1.200
90	207	-.530	.183	-.049	-1.505
90	208	-.462	.169	-.013	-1.165
90	209	-.467	.216	.245	-1.340
90	210	-.149	.152	.284	-.798
90	211	-.205	.140	.254	-.890
90	212	-.265	.151	.200	-1.048
90	213	-.369	.188	.160	-1.322
90	214	-.336	.173	.171	-1.071
90	215	-.303	.158	.182	-1.006
90	216	-.306	.145	.127	-1.005
90	217	-.262	.126	.125	-.852
90	218	-.126	.112	.191	-.512
90	219	-.057	.183	.451	-.778
90	220	-.107	.193	.473	-.823
90	221	.116	.158	.680	-.355
90	222	.255	.145	.822	-.184
90	223	.293	.151	.827	-.141
90	224	.302	.145	.862	-.112
90	225	.246	.140	.802	-.130
90	226	.156	.135	.612	-.235
90	227	-.079	.179	.574	-.778
90	228	-.448	.279	.459	-1.482
90	229	-.299	.165	.315	-.940
90	230	-.398	.173	.131	-1.063
90	231	-.422	.188	.127	-1.198
90	232	-.323	.201	.246	-1.172
90	233	-.178	.178	.286	-.888
90	234	-.107	.129	.271	-.657
90	235	-.173	.130	.214	-.653
90	236	-.226	.134	.174	-.741
90	237	-.320	.170	.137	-1.094
90	238	-.300	.163	.152	-1.086
90	239	-.267	.145	.194	-.971
90	240	-.259	.143	.197	-.964
90	241	-.192	.108	.182	-.567
90	242	-.124	.115	.242	-.534
90	243	-.083	.166	.468	-1.037
90	244	-.128	.170	.407	-.960
90	245	.042	.136	.551	-.458
90	246	.174	.131	.705	-.260
90	247	.220	.129	.762	-.177
90	248	.190	.117	.681	-.178
90	249	.081	.128	.519	-.342
90	250	-.089	.169	.507	-.773
90	251	-.353	.257	.349	-1.308
90	252	-.218	.165	.310	-1.147
90	253	-.369	.179	.149	-1.165
90	254	-.368	.188	.169	-1.086
90	255	-.175	.161	.268	-.778
90	256	-.103	.114	.278	-.550
90	257	-.130	.111	.264	-.656
90	258	-.180	.126	.253	-.721
90	259	-.235	.137	.178	-.767
90	260	-.240	.167	.202	-1.000
90	261	-.207	.121	.176	-.709
90	262	-.217	.128	.162	-.919
90	263	-.275	.135	.116	-.748
90	264	-.159	.121	.226	-.585
90	265	-.040	.134	.400	-.566
90	266	-.035	.137	.386	-.498
90	267	.070	.119	.486	-.295
90	268	.113	.112	.560	-.284
90	269	.233	.118	.705	-.087
90	270	.255	.122	.750	-.073
90	271	.198	.111	.610	-.137
90	272	.109	.106	.501	-.206
90	273	-.020	.140	.446	-.526
90	274	-.263	.223	.381	-1.055
90	275	-.124	.143	.348	-.638
90	276	-.178	.155	.236	-.892
90	277	-.094	.134	.397	-.675
90	278	-.006	.136	.350	-.658
90	279	.153	.113	.623	-.247
90	280	-.140	.097	.139	-.500
90	281	-.134	.098	.209	-.504
90	282	-.164	.104	.207	-.620
90	283	-.190	.104	.183	-.621
90	284	-.181	.099	.169	-.629
90	285	-.176	.128	.286	-.752
90	286	-.191	.121	.135	-.639
90	301	-.219	.110	.093	-.778
90	302	-.258	.117	.099	-.716
90	303	-.287	.117	.084	-.843
90	304	-.298	.118	.139	-.942
90	305	-.252	.110	.091	-.701
90	306	-.300	.120	.189	-1.002
90	307	-.316	.109	.064	-.728
90	308	-.298	.108	.081	-.679
90	309	-.235	.096	.147	-.602
90	310	-.285	.111	.072	-.695
90	311	-.321	.113	.072	-.732
90	312	-.317	.113	.038	-.667
90	313	-.238	.093	.046	-.566
90	314	-.285	.099	.051	-.619
90	315	-.312	.102	.043	-.655
90	316	-.300	.101	.056	-.640
90	317	-.207	.094	.104	-.627
90	318	-.264	.099	.054	-.619
90	319	-.317	.108	.025	-.711
90	320	-.312	.101	.045	-.646
90	321	-.331	.111	.027	-.697
90	322	-.302	.105	.033	-.707
90	323	-.333	.109	.051	-.706
90	324	-.323	.110	-.003	-.736
90	325	-.243	.099	.049	-.764
90	326	-.287	.101	.035	-.738
90	327	-.266	.108	.085	-.598
90	328	-.246	.103	.093	-.566
90	329	-.176	.093	.125	-.558
90	330	-.232	.102	.095	-.652
90	331	-.262	.099	.056	-.680
90	332	-.256	.099	.059	-.644
90	333	-.203	.098	.121	-.600
90	334	-.273	.115	.095	-.766
90	335	-.336	.133	.060	-.985
90	336	-.321	.129	.091	-.857
90	337	-.275	.130	.132	-.913
90	338	-.326	.132	.064	-1.015
90	339	-.352	.129	-.009	-1.011
90	340	-.331	.113	-.006	-.879
90	341	-.225	.096	.144	-.564
90	342	-.283	.103	.096	-.628
90	343	-.310	.106	.093	-.666
90	344	-.293	.105	.098	-.639
90	345	-.180	.104	.124	-.569
90	346	-.236	.110	.089	-.675
90	347	-.236	.105	.135	-.609
90	348	-.257	.107	.055	-.712

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
90	349	-.178	.097	.205	-.555
90	350	-.245	.104	.195	-.668
90	351	-.287	.113	.175	-.884
90	352	-.288	.122	.193	-.865
90	353	-.226	.122	.114	-.834
90	354	-.298	.130	.091	-.879
90	355	-.366	.153	.073	-1.219
90	356	-.341	.134	.104	-.956
90	357	-.244	.127	.183	-.842
90	358	-.314	.129	.081	-.983
90	359	-.341	.123	.051	-.830
90	360	-.317	.121	.071	-.774
90	361	-.228	.106	.119	-.615
90	362	-.296	.116	.078	-.724
90	363	-.293	.129	.075	-.825
90	364	-.264	.123	.100	-.732
90	365	-.161	.108	.160	-.613
90	366	-.236	.117	.105	-.725
90	367	-.276	.117	.068	-.765
90	368	-.257	.114	.078	-.689
90	369	-.175	.115	.214	-.641
90	370	-.268	.137	.213	-.901
90	371	-.336	.157	.162	-1.228
90	372	-.318	.147	.167	-.983
90	373	-.256	.154	.344	-1.122
90	374	-.327	.155	.215	-1.145
90	375	-.375	.151	.200	-1.170
90	376	-.357	.137	.031	-.901
90	377	-.334	.118	.001	-.813
90	378	-.331	.123	.029	-.812
90	379	-.328	.121	.040	-.790
90	380	-.324	.120	.059	-.782
90	381	-.272	.134	.135	-.992
90	382	-.265	.137	.190	-.863
90	383	-.267	.134	.130	-.925
90	384	-.273	.136	.189	-.951
90	385	-.253	.129	.120	-1.260
90	386	-.263	.120	.094	-.766
90	387	-.259	.138	.186	-.920
90	388	-.282	.150	.164	-1.084
90	389	-.323	.142	.139	-.857
90	390	-.328	.145	.169	-.873
90	391	-.359	.160	.199	-1.101
90	392	-.350	.146	.136	-.901
90	393	-.359	.131	.139	-.963
90	394	-.368	.134	.017	-1.082
90	395	-.356	.120	-.014	-.931
90	396	-.346	.119	.005	-.867
90	397	-.339	.119	.019	-.761
90	398	-.336	.126	.051	-.777
90	399	-.235	.137	.173	-.857
90	400	-.226	.134	.158	-.815
90	401	-.227	.128	.145	-.935
90	402	-.237	.137	.182	-.950
90	403	-.225	.121	.142	-.807
90	404	-.229	.115	.144	-.730
90	405	-.262	.123	.079	-.807
90	406	-.281	.140	.110	-.950
90	407	-.306	.158	.174	-1.057
90	408	-.306	.149	.090	-1.177
90	409	-.289	.137	.094	-.830
90	410	-.286	.143	.211	-.821
90	411	-.312	.146	.243	-1.050
90	412	-.348	.137	.218	-.871
90	413	-.381	.126	.045	-1.071
90	414	-.340	.123	.063	-.882
90	415	-.370	.123	.058	-.838
90	416	-.365	.124	.054	-.868
90	417	-.177	.112	.237	-.635
90	418	-.165	.115	.272	-.632
90	419	-.159	.109	.220	-.683
90	420	-.174	.108	.171	-.693
90	421	-.176	.103	.161	-.562
90	422	-.210	.118	.160	-.684
90	423	.079	.097	.366	-.347
90	424	-.237	.121	.119	-.712
90	425	-.284	.128	.145	-.709
90	426	-.321	.153	.142	-1.028
90	427	-.294	.147	.133	-.861
90	428	-.279	.157	.221	-.853
90	429	-.291	.173	.215	-1.062
90	430	-.359	.169	.323	-1.165
90	431	-.358	.124	.009	-.939
90	432	-.365	.136	.114	-.981
90	433	-.345	.118	.046	-.816
90	434	-.337	.125	.082	-.959
90	435	-.162	.105	.156	-.537
90	436	-.187	.144	.288	-.804
90	437	-.167	.104	.139	-.639
90	438	-.173	.112	.181	-.701
90	439	-.149	.098	.229	-.509
90	440	-.133	.098	.180	-.494
90	441	-.133	.104	.223	-.462
90	442	-.130	.112	.278	-.487
90	443	-.137	.112	.280	-.506
90	444	-.137	.120	.290	-.530
90	445	-.066	.104	.233	-.436
90	446	.018	.120	.395	-.359
90	447	-.027	.130	.462	-.511
90	448	-.157	.158	.507	-.889
90	449	-.368	.156	.244	-1.262
90	450	-.379	.158	.121	-1.317
90	451	-.444	.179	-.002	-1.809
90	452	-.422	.177	-.007	-1.873
90	453	-.207	.134	.263	-.677
90	454	-.153	.130	.393	-.700
90	455	-.177	.146	.260	-.843
90	456	-.361	.145	.118	-1.032
90	457	-.464	.170	.001	-1.162
90	801	.049	.094	.369	-.315
90	901	-.431	.132	.029	-1.142
90	902	-.441	.138	.022	-1.187
90	903	-.418	.127	-.008	-.877
90	904	-.422	.125	.016	-.842
90	905	-.348	.144	.243	-.928
90	906	-.272	.140	.338	-.782
90	907	-.444	.154	.010	-1.098
90	908	-.447	.162	.038	-1.220
90	909	-.357	.128	.194	-.808
90	910	-.394	.142	.194	-1.006
90	911	-.317	.118	.106	-.760
90	912	-.297	.105	.040	-.709
90	913	-.328	.112	.062	-.798
90	914	-.318	.114	.048	-.712
90	915	-.043	.104	.357	-.384
90	916	.040	.111	.435	-.363
90	917	.012	.136	.480	-.520
90	918	.188	.107	.651	-.231
90	919	.097	.129	.546	-.429
90	919	.097	.129	.546	-.429
90	920	.201	.108	.655	-.241
90	921	.075	.118	.554	-.509
90	922	-.152	.103	.176	-.539
90	923	.206	.123	.655	-.215
90	924	.192	.117	.612	-.178
90	925	-.125	.108	.265	-.492
90	926	.102	.117	.663	-.219
90	927	-.196	.111	.217	-.792
90	928	-.247	.130	.172	-.712
90	929	-.310	.107	.054	-.670
100	1	.062	.126	.489	-.483
100	2	.108	.119	.501	-.355
100	3	.081	.128	.630	-.446
100	4	-.023	.105	.399	-.447
100	5	.002	.100	.313	-.373
100	6	.046	.097	.413	-.258
100	7	-.024	.098	.329	-.350
100	8	-.075	.109	.349	-.610
100	9	-.070	.105	.250	-.382
100	10	-.166	.120	.231	-.559

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	11	-.111	.109	.219	-.512
100	12	-.134	.113	.223	-.491
100	13	-.026	.111	.450	-.380
100	14	.012	.124	.484	-.436
100	15	.010	.125	.427	-.540
100	16	.067	.122	.468	-.381
100	101	-.035	.108	.370	-.367
100	102	.036	.128	.516	-.367
100	103	.089	.140	.599	-.380
100	104	.101	.162	.665	-.420
100	105	.244	.141	.656	-.156
100	106	.222	.151	.664	-.226
100	107	.212	.148	.654	-.207
100	108	.165	.132	.690	-.261
100	109	.126	.143	.641	-.261
100	110	.081	.125	.505	-.303
100	111	-.106	.128	.347	-.549
100	112	-.640	.216	-.063	-1.643
100	113	-.438	.144	-.019	-1.133
100	114	-.437	.157	.036	-1.211
100	115	-.445	.162	.137	-1.189
100	116	-.417	.164	.110	-1.234
100	117	-.399	.170	.162	-1.211
100	118	-.310	.161	.384	-.999
100	119	-.310	.167	.274	-1.018
100	120	-.307	.165	.211	-.968
100	121	-.298	.162	.186	-.976
100	122	-.249	.147	.282	-.959
100	123	-.274	.154	.268	-.938
100	124	-.279	.155	.264	-1.043
100	125	-.131	.138	.405	-.579
100	126	.093	.116	.490	-.288
100	127	.246	.150	.781	-.277
100	128	.228	.171	.817	-.356
100	129	.411	.160	.984	-.103
100	130	.501	.142	.930	.079
100	131	.510	.154	.956	.043
100	132	.433	.158	1.053	.009
100	133	.323	.143	.822	-.263
100	134	.125	.126	.608	-.263
100	135	-.171	.155	.373	-.676
100	136	-.785	.292	-.106	-1.975
100	137	-.520	.241	.063	-1.547
100	138	-.388	.152	.072	-1.058
100	139	-.409	.161	.079	-1.150
100	141	-.413	.165	.077	-1.117
100	142	-.322	.155	.165	-1.039
100	143	-.345	.173	.231	-1.205
100	144	-.348	.184	.210	-1.600
100	145	-.313	.165	.193	-1.024
100	146	-.239	.129	.235	-.759
100	147	-.269	.148	.238	-.901
100	148	-.277	.155	.233	-.916
100	149	-.146	.123	.418	-.583
100	150	.064	.117	.498	-.336
100	151	.211	.156	.712	-.312
100	152	.191	.173	.735	-.356
100	153	.364	.160	.852	-.128
100	154	.427	.141	.926	.006
100	155	.433	.156	.923	-.015
100	156	.271	.139	.774	-.170
100	157	.049	.137	.603	-.373
100	158	-.170	.145	.258	-.744
100	159	-.731	.293	-.009	-1.841
100	160	-.508	.239	.064	-1.674
100	161	-.452	.169	.031	-1.198
100	162	-.350	.134	.076	-.880
100	163	-.398	.144	.112	-.906
100	164	-.369	.149	.144	-.945
100	165	-.344	.157	.149	-.907
100	166	-.317	.153	.145	-1.216
100	167	-.333	.150	.108	-.910
100	168	-.310	.143	.127	-.893
100	169	-.305	.158	.245	-1.026
100	170	-.244	.160	.196	-1.165
100	171	-.158	.127	.295	-.656
100	172	-.012	.126	.444	-.497
100	173	.169	.153	.727	-.385
100	174	.220	.156	.724	-.343
100	175	.344	.150	.834	-.141
100	176	.392	.147	.842	-.035
100	177	.417	.147	.936	-.082
100	178	.388	.133	.821	-.047
100	179	.228	.132	.675	-.238
100	180	.010	.129	.437	-.467
100	181	-.247	.152	.180	-.810
100	182	-.693	.241	-.053	-1.568
100	183	-.525	.222	.025	-1.518
100	184	-.465	.147	-.032	-1.263
100	185	-.448	.146	-.015	-1.279
100	186	-.384	.130	.036	-.967
100	187	-.419	.144	.047	-1.084
100	188	-.371	.157	.198	-1.044
100	189	-.334	.163	.262	-.931
100	190	-.272	.158	.225	-1.005
100	191	-.300	.150	.181	-1.094
100	192	-.285	.143	.168	-1.112
100	193	-.261	.151	.208	-1.088
100	194	-.232	.155	.238	-1.083
100	195	-.185	.119	.217	-.625
100	196	-.024	.118	.441	-.394
100	197	.160	.137	.739	-.366
100	198	.199	.144	.736	-.292
100	199	.287	.145	.867	-.151
100	200	.334	.143	.870	-.107
100	201	.364	.144	.860	-.057
100	202	.247	.112	.658	-.129
100	203	-.012	.125	.400	-.447
100	204	-.288	.156	.228	-.865
100	205	-.767	.258	.000	-1.907
100	206	-.406	.196	.105	-1.398
100	207	-.464	.150	-.030	-1.077
100	208	-.410	.155	.072	-1.085
100	209	-.450	.156	.055	-1.377
100	210	-.215	.156	.294	-.808
100	211	-.233	.160	.358	-.935
100	212	-.249	.164	.305	-1.082
100	213	-.252	.150	.151	-.933
100	214	-.188	.124	.233	-.664
100	215	-.206	.130	.219	-.893
100	216	-.270	.144	.194	-1.342
100	217	-.173	.133	.266	-.726
100	218	.006	.118	.488	-.392
100	219	.096	.143	.551	-.416
100	220	.068	.162	.541	-.511
100	221	.201	.142	.800	-.231
100	222	.305	.138	.760	-.102
100	223	.295	.148	.762	-.129
100	224	.268	.142	.743	-.151
100	225	.190	.132	.740	-.217
100	226	.063	.109	.483	-.275
100	227	-.226	.157	.359	-.825
100	228	-.643	.253	.043	-1.677
100	229	-.387	.182	.135	-1.440
100	230	-.382	.150	.051	-1.108
100	231	-.435	.165	.047	-1.172
100	232	-.420	.168	.083	-1.372
100	233	-.313	.182	.274	-1.110
100	234	-.157	.165	.307	-.757
100	235	-.185	.164	.280	-.802
100	236	-.209	.153	.224	-.792
100	237	-.234	.155	.197	-.869
100	238	-.207	.135	.282	-.767
100	239	-.189	.128	.282	-.982
100	240	-.176	.130	.278	-1.018
100	241	-.085	.112	.311	-.506
100	242	-.012	.117	.394	-.426
100	243	.066	.141	.557	-.407
100	244	.060	.154	.564	-.522
100	245	.158	.131	.661	-.295

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	246	.187	.120	.619	-.299
100	247	.202	.121	.681	-.301
100	248	.147	.121	.627	-.360
100	249	.004	.128	.597	-.421
100	250	-.203	.164	.396	-.751
100	251	-.538	.251	.188	-1.539
100	252	-.314	.165	.117	-1.007
100	253	-.417	.165	.055	-1.200
100	254	-.411	.169	.089	-1.133
100	255	-.361	.169	.090	-1.160
100	256	-.116	.126	.283	-.646
100	257	-.115	.107	.249	-.585
100	258	-.140	.114	.230	-.659
100	259	-.185	.115	.187	-.903
100	260	-.183	.127	.218	-.839
100	261	-.161	.112	.278	-.621
100	262	-.166	.117	.255	-.743
100	263	-.170	.138	.278	-.656
100	264	-.048	.124	.429	-.472
100	265	.068	.119	.548	-.345
100	266	.082	.121	.579	-.316
100	267	.132	.113	.618	-.239
100	268	.162	.122	.609	-.182
100	269	.235	.127	.669	-.182
100	270	.236	.132	.719	-.216
100	271	.156	.124	.603	-.299
100	272	.052	.117	.436	-.357
100	273	-.070	.128	.353	-.514
100	274	-.287	.201	.251	-1.060
100	275	-.159	.132	.229	-.631
100	276	-.185	.137	.216	-.721
100	277	-.196	.137	.322	-.818
100	278	-.111	.164	.396	-.809
100	279	.149	.126	.633	-.288
100	280	-.139	.099	.232	-.526
100	281	-.115	.100	.229	-.462
100	282	-.129	.103	.247	-.514
100	283	-.160	.102	.213	-.521
100	284	-.140	.097	.215	-.479
100	285	-.142	.105	.204	-.505
100	286	-.166	.097	.159	-.550
100	301	-.247	.121	.156	-.800
100	302	-.238	.129	.189	-.879
100	303	-.249	.129	.182	-.845
100	304	-.260	.134	.187	-1.334
100	305	-.319	.142	.232	-1.044
100	306	-.353	.152	.125	-1.252
100	307	-.324	.125	.145	-1.074
100	308	-.286	.121	.198	-.722
100	309	-.256	.108	.092	-.704
100	310	-.258	.131	.157	-.827
100	311	-.280	.132	.164	-.908
100	312	-.364	.128	.126	-.812
100	313	-.313	.117	.082	-.801
100	314	-.340	.125	.133	-.866
100	315	-.361	.127	.099	-.865
100	316	-.368	.129	.053	-.872
100	317	-.225	.103	.111	-.578
100	318	-.242	.111	.123	-.610
100	319	-.322	.141	.115	-.924
100	320	-.361	.131	.053	-.838
100	321	-.364	.137	.038	-.798
100	322	-.342	.140	.166	-1.023
100	323	-.366	.138	.149	-.885
100	324	-.372	.141	.121	-.927
100	325	-.387	.132	.063	-.888
100	326	-.379	.127	.058	-.783
100	327	-.228	.110	.140	-.628
100	328	-.203	.105	.142	-.594
100	329	-.217	.094	.210	-.574
100	330	-.214	.099	.175	-.566
100	331	-.229	.094	.090	-.523
100	332	-.242	.109	.138	-.665
100	333	-.255	.123	.141	-.801
100	334	-.257	.140	.211	-.843
100	335	-.290	.156	.253	-1.003
100	336	-.286	.156	.214	-.870
100	337	-.282	.141	.235	-1.183
100	338	-.283	.146	.332	-.986
100	339	-.338	.144	.123	-.975
100	340	-.380	.134	.135	-.917
100	341	-.383	.119	.029	-.855
100	342	-.370	.122	.042	-.838
100	343	-.382	.124	.044	-.847
100	344	-.369	.123	.056	-.824
100	345	-.227	.112	.080	-.632
100	346	-.196	.108	.105	-.616
100	347	-.174	.105	.134	-.640
100	348	-.195	.102	.117	-.566
100	349	-.189	.102	.124	-.598
100	350	-.185	.116	.170	-.665
100	351	-.208	.128	.209	-.667
100	352	-.208	.136	.254	-.851
100	353	-.238	.141	.173	-.809
100	354	-.237	.144	.176	-.865
100	355	-.258	.161	.185	-1.051
100	356	-.251	.163	.276	-.972
100	357	-.317	.162	.195	-.969
100	358	-.386	.154	.092	-1.212
100	359	-.395	.137	-.010	-1.003
100	360	-.376	.134	-.003	-.976
100	361	-.367	.127	.034	-.966
100	362	-.356	.132	.071	-.979
100	363	-.221	.125	.236	-.758
100	364	-.192	.115	.234	-.702
100	365	-.176	.103	.266	-.672
100	366	-.173	.107	.271	-.676
100	367	-.185	.105	.181	-.637
100	368	-.185	.113	.151	-.652
100	369	-.205	.123	.168	-.766
100	370	-.209	.137	.183	-.802
100	371	-.243	.151	.196	-.856
100	372	-.243	.150	.219	-.920
100	373	-.242	.142	.186	-.879
100	374	-.232	.160	.302	-.884
100	375	-.302	.180	.268	-1.039
100	376	-.390	.171	.173	-1.173
100	377	-.364	.142	.152	-.910
100	378	-.382	.151	.174	-.957
100	379	-.414	.152	.155	-.999
100	380	-.375	.147	.173	-.930
100	381	-.168	.109	.168	-.585
100	382	-.178	.115	.261	-.628
100	383	-.205	.112	.095	-.613
100	384	-.179	.109	.113	-.588
100	385	-.152	.105	.233	-.549
100	386	-.210	.111	.161	-.714
100	387	-.220	.133	.205	-.723
100	388	-.201	.139	.211	-.819
100	389	-.200	.141	.269	-.821
100	390	-.234	.156	.292	-.993
100	391	-.266	.170	.267	-1.081
100	392	-.230	.174	.293	-.970
100	393	-.234	.182	.339	-.878
100	394	-.361	.191	.770	-1.405
100	395	-.437	.160	.025	-1.198
100	396	-.389	.149	.052	-1.134
100	397	-.326	.132	.015	-.823
100	398	-.347	.144	.027	-.947
100	399	-.191	.125	.171	-.711
100	400	-.151	.117	.192	-.632
100	401	-.123	.098	.179	-.516
100	402	-.148	.109	.225	-.615
100	403	-.182	.107	.166	-.629
100	404	-.158	.108	.194	-.574
100	405	-.144	.109	.172	-.563
100	406	-.167	.125	.209	-.940
100	407	-.215	.137	.162	-.839
100	408	-.193	.131	.238	-.729
100	409	-.149	.118	.226	-.603

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
100	410	-.150	.143	.382	-.732
100	411	-.211	.172	.399	-.805
100	412	-.290	.180	.455	-1.312
100	413	-.330	.145	.140	-.944
100	414	-.311	.127	.042	-.800
100	415	-.378	.143	.098	-.942
100	416	-.337	.140	.138	-.921
100	417	-.109	.104	.216	-.435
100	418	-.119	.112	.209	-.471
100	419	-.149	.110	.159	-.499
100	420	-.126	.105	.195	-.457
100	421	-.124	.099	.171	-.461
100	422	-.176	.117	.215	-.718
100	423	.087	.106	.393	-.306
100	424	-.211	.125	.206	-.748
100	425	-.201	.122	.152	-.781
100	426	-.262	.156	.187	-1.259
100	427	-.230	.140	.204	-1.033
100	428	-.148	.148	.278	-.982
100	429	-.147	.158	.377	-.862
100	430	-.252	.186	.358	-1.010
100	431	-.306	.140	.196	-.958
100	432	-.313	.143	.128	-1.100
100	433	-.260	.116	.093	-.651
100	434	-.272	.128	.126	-.784
100	435	-.159	.101	.233	-.482
100	436	-.111	.102	.238	-.459
100	437	-.102	.094	.195	-.468
100	438	-.125	.104	.202	-.526
100	439	-.144	.102	.199	-.577
100	440	-.093	.096	.233	-.443
100	441	-.071	.093	.252	-.381
100	442	-.085	.107	.295	-.457
100	443	-.128	.109	.255	-.509
100	444	-.102	.112	.267	-.522
100	445	-.013	.113	.374	-.449
100	446	.054	.122	.505	-.368
100	447	-.002	.131	.476	-.482
100	448	-.068	.146	.470	-.753
100	449	-.241	.174	.275	-.949
100	450	-.280	.182	.247	-1.011
100	451	-.312	.178	.177	-1.239
100	452	-.255	.173	.206	-1.171
100	453	-.173	.097	.152	-.501
100	454	-.104	.103	.273	-.461
100	455	-.156	.113	.200	-.602
100	456	-.206	.138	.256	-.767
100	457	-.358	.162	.093	-1.117
100	801	.054	.100	.442	-.308
100	901	-.393	.135	.119	-1.057
100	902	-.407	.141	.090	-1.035
100	903	-.418	.135	.042	-.959
100	904	-.404	.132	.025	-.912
100	905	-.323	.136	.150	-.909
100	906	-.252	.148	.385	-.831
100	907	-.439	.166	.088	-1.142
100	908	-.410	.164	.028	-1.152
100	909	-.364	.158	.214	-1.091
100	910	-.357	.160	.293	-1.092
100	911	-.319	.139	.282	-.965
100	912	-.318	.114	.089	-.714
100	913	-.346	.138	.039	-.841
100	914	-.340	.136	.083	-.854
100	915	-.068	.104	.277	-.413
100	916	-.008	.114	.359	-.454
100	917	-.108	.139	.358	-.682
100	918	.158	.113	.704	-.232
100	919	.097	.119	.532	-.466
100	919	.097	.119	.532	-.466
100	920	.174	.114	.774	-.228
100	921	.070	.117	.502	-.400
100	922	-.125	.101	.193	-.507
100	923	.160	.121	.617	-.213
100	924	.164	.116	.638	-.167
100	925	-.103	.107	.251	-.469
100	926	.167	.117	.728	-.238
100	927	-.161	.101	.160	-.483
100	928	-.131	.129	.279	-.642
100	929	-.313	.121	.179	-.796
110	1	.071	.116	.507	-.402
110	2	.108	.109	.556	-.301
110	3	.034	.117	.478	-.383
110	4	-.069	.107	.389	-.634
110	5	-.053	.103	.330	-.395
110	6	.022	.096	.355	-.335
110	7	-.059	.099	.317	-.388
110	8	-.134	.106	.265	-.568
110	9	-.093	.097	.228	-.558
110	10	-.193	.106	.116	-.766
110	11	-.122	.102	.244	-.608
110	12	-.168	.105	.152	-.614
110	13	.099	.104	.493	-.188
110	14	.100	.121	.609	-.236
110	15	.051	.114	.420	-.449
110	16	.110	.100	.435	-.271
110	101	.071	.108	.445	-.370
110	102	.141	.128	.628	-.412
110	103	.188	.137	.722	-.413
110	104	.232	.150	.777	-.415
110	105	.311	.135	.829	-.139
110	106	.252	.144	.845	-.213
110	107	.211	.138	.711	-.246
110	108	.123	.126	.582	-.285
110	109	.082	.128	.591	-.426
110	110	.050	.105	.451	-.329
110	111	-.108	.110	.266	-.477
110	112	-.422	.169	.050	-1.515
110	113	-.384	.143	.083	-.957
110	114	-.295	.119	.101	-.769
110	115	-.335	.130	.096	-.905
110	116	-.324	.128	.071	-.945
110	117	-.325	.131	.105	-1.037
110	118	-.262	.113	.136	-1.165
110	119	-.313	.126	.083	-1.244
110	120	-.320	.128	.073	-.996
110	121	-.302	.123	.109	-.872
110	122	-.246	.115	.171	-.847
110	123	-.297	.134	.133	-.989
110	124	-.312	.139	.122	-1.008
110	125	-.012	.122	.386	-.418
110	126	.222	.121	.607	-.141
110	127	.391	.150	.934	-.076
110	128	.408	.160	.995	-.075
110	129	.496	.163	1.116	-.086
110	130	.522	.139	.970	.059
110	131	.487	.149	.974	-.023
110	132	.354	.153	.928	-.143
110	133	.269	.133	.759	-.201
110	134	.117	.112	.503	-.251
110	135	-.087	.118	.292	-.624
110	136	-.378	.164	.048	-1.455
110	137	-.335	.146	.096	-1.322
110	138	-.244	.116	.150	-.913
110	139	-.285	.125	.131	-.975
110	141	-.292	.123	.125	-.877
110	142	-.252	.107	.112	-.652
110	143	-.314	.125	.075	-.825
110	144	-.323	.127	.077	-.826
110	145	-.308	.123	.065	-.797
110	146	-.245	.101	.101	-.681
110	147	-.308	.131	.078	-1.260
110	148	-.327	.136	.116	-1.183
110	149	-.042	.122	.340	-.508
110	150	.181	.113	.660	-.153
110	151	.346	.146	.890	-.088
110	152	.357	.153	.872	-.097
110	153	.438	.154	.913	-.018
110	154	.489	.153	1.003	-.039
110	155	.458	.167	.990	-.143
110	156	.234	.145	.732	-.341

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	157	-.056	.135	.497	-.473
110	158	-.074	.105	.259	-.549
110	159	-.371	.171	.025	-1.419
110	160	-.366	.144	.072	-1.261
110	161	-.327	.123	.039	-1.221
110	162	-.236	.106	.125	-.668
110	163	-.297	.117	.083	-.789
110	164	-.335	.122	.086	-.879
110	165	-.342	.135	.115	-1.016
110	166	-.265	.121	.112	-.802
110	167	-.305	.119	.092	-.810
110	168	-.307	.116	.103	-.805
110	169	-.308	.137	.117	-1.000
110	170	-.299	.141	.148	-1.039
110	171	-.002	.135	.444	-.419
110	172	.144	.137	.595	-.269
110	173	.341	.156	.937	-.130
110	174	.361	.147	.986	-.160
110	175	.385	.155	1.005	-.134
110	176	.383	.155	.980	-.108
110	177	.373	.150	.913	-.071
110	178	.365	.134	.858	-.063
110	179	.192	.129	.653	-.232
110	180	-.005	.121	.407	-.479
110	181	-.178	.132	.238	-.762
110	182	-.324	.164	.084	-1.134
110	183	-.365	.154	.074	-.999
110	184	-.343	.135	.100	-.847
110	185	-.323	.136	.103	-.864
110	186	-.272	.119	.101	-1.114
110	187	-.339	.129	.065	-1.175
110	188	-.373	.133	.041	-.934
110	189	-.375	.150	.039	-.960
110	190	-.305	.137	.074	-.988
110	191	-.333	.135	.110	-.814
110	192	-.334	.130	.094	-.766
110	193	-.336	.155	.142	-.983
110	194	-.277	.148	.165	-1.051
110	195	-.014	.130	.447	-.521
110	196	.112	.129	.643	-.323
110	197	.268	.140	.734	-.208
110	198	.301	.143	.908	-.179
110	199	.308	.151	.901	-.174
110	200	.298	.149	.847	-.147
110	201	.296	.142	.837	-.099
110	202	.192	.117	.597	-.153
110	203	-.027	.123	.423	-.393
110	204	-.240	.143	.242	-.803
110	205	-.473	.230	.076	-1.642
110	206	-.342	.163	.064	-1.319
110	207	-.359	.159	.074	-1.169
110	208	-.313	.136	.110	-1.143
110	209	-.364	.167	.148	-1.365
110	210	-.292	.136	.148	-.843
110	211	-.351	.156	.119	-.998
110	212	-.389	.175	.069	-1.279
110	213	-.329	.150	.113	-.973
110	214	-.229	.115	.181	-.714
110	215	-.266	.137	.147	-.810
110	216	-.371	.168	.190	-1.200
110	217	-.002	.126	.481	-.476
110	218	.139	.110	.530	-.268
110	219	.221	.131	.757	-.152
110	220	.209	.138	.789	-.303
110	221	.258	.141	.810	-.127
110	222	.280	.121	.687	-.081
110	223	.240	.126	.701	-.121
110	224	.167	.118	.627	-.202
110	225	.088	.112	.538	-.287
110	226	-.025	.116	.380	-.489
110	227	-.269	.156	.198	-.981
110	228	-.564	.238	.028	-1.580
110	229	-.443	.191	.085	-1.526
110	230	-.351	.158	.096	-1.041
110	231	-.398	.177	.079	-1.156
110	232	-.428	.176	.025	-1.281
110	233	-.388	.177	.171	-1.577
110	234	-.262	.152	.365	-.936
110	235	-.285	.171	.479	-.918
110	236	-.317	.177	.201	-.980
110	237	-.268	.152	.196	-.885
110	238	-.236	.133	.233	-.682
110	239	-.236	.137	.172	-.785
110	240	-.222	.143	.129	-.855
110	241	.059	.112	.497	-.311
110	242	.120	.119	.558	-.279
110	243	.188	.134	.611	-.238
110	244	.210	.133	.636	-.199
110	245	.226	.139	.850	-.229
110	246	.213	.127	.751	-.170
110	247	.183	.125	.698	-.210
110	248	.060	.109	.450	-.310
110	249	-.106	.117	.296	-.509
110	250	-.326	.157	.119	-1.027
110	251	-.647	.244	-.037	-1.887
110	252	-.451	.206	.037	-1.576
110	253	-.409	.176	.118	-1.138
110	254	-.402	.179	.139	-1.261
110	255	-.438	.141	-.044	-1.273
110	256	-.228	.152	.203	-.798
110	257	-.179	.122	.213	-.653
110	258	-.184	.124	.269	-.730
110	259	-.213	.117	.162	-.689
110	260	-.176	.115	.258	-.611
110	261	-.166	.109	.168	-.602
110	262	-.174	.115	.188	-.625
110	263	-.004	.118	.376	-.439
110	264	.093	.116	.484	-.281
110	265	.160	.114	.567	-.200
110	266	.163	.117	.580	-.180
110	267	.159	.125	.618	-.174
110	268	.143	.116	.578	-.211
110	269	.188	.116	.636	-.204
110	270	.153	.115	.565	-.249
110	271	.048	.105	.454	-.340
110	272	-.064	.101	.330	-.416
110	273	-.212	.127	.213	-.763
110	274	-.516	.225	.106	-1.540
110	275	-.334	.160	.111	-1.097
110	276	-.327	.158	.112	-1.021
110	277	-.305	.155	.124	-1.074
110	278	-.281	.183	.252	-1.080
110	279	.118	.144	.848	-.353
110	280	-.179	.100	.245	-.605
110	281	-.157	.105	.272	-.571
110	282	-.162	.108	.303	-.530
110	283	-.187	.106	.248	-.510
110	284	-.160	.100	.237	-.470
110	285	-.145	.102	.257	-.504
110	286	-.210	.104	.198	-.603
110	301	-.247	.117	.177	-.750
110	302	-.222	.123	.199	-.782
110	303	-.235	.125	.215	-.660
110	304	-.224	.126	.171	-.722
110	305	-.296	.124	.259	-.860
110	306	-.355	.135	.149	-.975
110	307	-.349	.117	.017	-.794
110	308	-.308	.115	.033	-.708
110	309	-.292	.107	.066	-.709
110	310	-.229	.124	.198	-.859
110	311	-.264	.127	.223	-.914
110	312	-.336	.123	.112	-.777
110	313	-.310	.111	.105	-.817
110	314	-.342	.120	.053	-.955
110	315	-.361	.123	.018	-.994
110	316	-.349	.122	.062	-.974
110	317	-.211	.104	.170	-.577
110	318	-.218	.113	.187	-.616
110	319	-.300	.136	.168	-.884
110	320	-.374	.127	.042	-.860

APPENDIX A -- PRESSURE DATA: CONFIGURATION A) III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	321	-.320	.133	.106	-.883
110	322	-.342	.146	.203	-.853
110	323	-.353	.138	.143	-.899
110	324	-.344	.134	.076	-.875
110	325	-.310	.154	.125	-.774
110	326	-.344	.137	.265	-.814
110	327	-.248	.109	.111	-.644
110	328	-.209	.104	.129	-.604
110	329	-.198	.095	.131	-.525
110	330	-.191	.099	.129	-.558
110	331	-.215	.099	.138	-.535
110	332	-.209	.104	.158	-.530
110	333	-.225	.106	.192	-.673
110	334	-.214	.114	.223	-.642
110	335	-.255	.123	.220	-.837
110	336	-.250	.120	.163	-.650
110	337	-.200	.111	.149	-.718
110	338	-.163	.130	.284	-.743
110	339	-.192	.160	.251	-.808
110	340	-.296	.193	.396	-.845
110	341	-.371	.130	.281	-.815
110	342	-.352	.123	.048	-.849
110	343	-.372	.124	.033	-.769
110	344	-.350	.123	.064	-.763
110	345	-.218	.096	.156	-.574
110	346	-.178	.096	.194	-.544
110	347	-.166	.099	.169	-.491
110	348	-.179	.097	.217	-.536
110	349	-.178	.094	.118	-.616
110	350	-.167	.102	.178	-.628
110	351	-.191	.106	.123	-.632
110	352	-.176	.106	.140	-.592
110	353	-.189	.101	.166	-.563
110	354	-.183	.107	.186	-.645
110	355	-.157	.110	.215	-.726
110	356	-.091	.125	.298	-.637
110	357	-.065	.158	.422	-.719
110	358	-.198	.228	.546	-1.095
110	359	-.342	.155	.396	-.858
110	360	-.313	.143	.153	-.789
110	361	-.328	.118	.039	-.713
110	362	-.309	.122	.078	-.712
110	363	-.225	.102	.161	-.608
110	364	-.176	.096	.166	-.488
110	365	-.154	.088	.229	-.469
110	366	-.146	.092	.189	-.487
110	367	-.165	.095	.152	-.592
110	368	-.151	.098	.154	-.598
110	369	-.161	.099	.228	-.591
110	370	-.151	.104	.250	-.563
110	371	-.185	.111	.188	-.594
110	372	-.173	.110	.196	-.581
110	373	-.131	.108	.238	-.676
110	374	-.068	.124	.288	-.729
110	375	-.073	.160	.354	-.821
110	376	-.185	.199	.418	-1.100
110	377	-.318	.143	.125	-.972
110	378	-.321	.146	.118	-.831
110	379	-.360	.146	.068	-.887
110	380	-.313	.140	.092	-.867
110	381	-.188	.107	.143	-.571
110	382	-.172	.109	.155	-.519
110	383	-.202	.108	.166	-.553
110	384	-.167	.104	.161	-.550
110	385	-.131	.091	.211	-.488
110	386	-.212	.111	.134	-.683
110	387	-.189	.109	.159	-.683
110	388	-.153	.106	.174	-.651
110	389	-.142	.109	.322	-.666
110	390	-.159	.119	.268	-.659
110	391	-.163	.120	.243	-.642
110	392	-.077	.129	.357	-.572
110	393	-.028	.138	.484	-.682
110	394	-.135	.197	.457	-1.214
110	395	-.321	.164	.457	-1.311
110	396	-.268	.146	.248	-.962
110	397	-.253	.132	.290	-.736
110	398	-.260	.142	.323	-.769
110	399	-.217	.113	.204	-.665
110	400	-.158	.102	.199	-.582
110	401	-.131	.097	.209	-.498
110	402	-.144	.105	.239	-.555
110	403	-.187	.107	.177	-.633
110	404	-.149	.103	.217	-.558
110	405	-.130	.083	.166	-.453
110	406	-.143	.093	.162	-.564
110	407	-.197	.103	.142	-.782
110	408	-.161	.100	.167	-.598
110	409	-.104	.098	.211	-.515
110	410	-.058	.112	.411	-.629
110	411	-.065	.137	.410	-.894
110	412	-.082	.177	.398	-1.020
110	413	-.210	.153	.355	-.812
110	414	-.202	.150	.276	-.826
110	415	-.270	.142	.215	-.892
110	416	-.218	.137	.248	-.741
110	417	-.133	.095	.231	-.463
110	418	-.133	.102	.289	-.447
110	419	-.175	.102	.272	-.516
110	420	-.139	.097	.228	-.433
110	421	-.136	.093	.146	-.574
110	422	-.178	.109	.146	-.606
110	423	.069	.105	.381	-.403
110	424	-.222	.127	.134	-1.012
110	425	-.198	.119	.134	-.754
110	426	-.218	.135	.156	-.769
110	427	-.187	.116	.193	-.585
110	428	-.070	.107	.323	-.425
110	429	-.005	.108	.372	-.405
110	430	-.032	.145	.398	-.745
110	431	-.190	.142	.294	-.732
110	432	-.157	.136	.282	-.706
110	433	-.134	.126	.263	-.583
110	434	-.139	.135	.286	-.632
110	435	-.185	.109	.154	-.573
110	436	-.116	.101	.247	-.446
110	437	-.113	.093	.186	-.452
110	438	-.128	.101	.185	-.482
110	439	-.160	.102	.183	-.499
110	440	-.098	.097	.233	-.413
110	441	-.083	.088	.210	-.392
110	442	-.096	.099	.233	-.435
110	443	-.150	.103	.177	-.509
110	444	-.111	.102	.204	-.474
110	445	-.033	.107	.413	-.456
110	446	.049	.104	.442	-.297
110	447	.002	.107	.431	-.349
110	448	.013	.114	.469	-.425
110	449	-.045	.133	.341	-.538
110	450	-.078	.142	.364	-.606
110	451	-.183	.162	.240	-.809
110	452	-.115	.155	.275	-.760
110	453	-.196	.102	.227	-.691
110	454	-.103	.102	.253	-.572
110	455	-.162	.112	.191	-.703
110	456	-.092	.126	.299	-.646
110	457	-.249	.172	.248	-1.169
110	801	.059	.096	.380	-.257
110	901	-.352	.136	.029	-.994
110	902	-.364	.139	.069	-1.019
110	903	-.404	.135	.001	-1.063
110	904	-.375	.131	.050	-.942
110	905	-.290	.124	.199	-.717
110	906	-.238	.137	.313	-.851
110	907	-.425	.156	.142	-.993
110	908	-.393	.146	.060	-1.027
110	909	-.366	.159	.250	-1.002
110	910	-.347	.146	.196	-1.251
110	911	-.314	.124	.162	-.792
110	912	-.332	.117	.034	-.718

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
110	913	-.321	.130	.082	-.805
110	914	-.335	.137	.105	-.853
110	915	-.130	.119	.237	-.583
110	916	-.101	.125	.284	-.623
110	917	-.229	.144	.289	-.893
110	918	.102	.110	.467	-.253
110	919	.083	.106	.454	-.385
110	919	.083	.106	.454	-.385
110	920	.124	.108	.505	-.212
110	921	.079	.109	.494	-.347
110	922	-.164	.104	.255	-.530
110	923	.143	.119	.534	-.236
110	924	.170	.117	.533	-.225
110	925	-.129	.101	.240	-.560
110	926	.167	.124	.671	-.277
110	927	-.160	.097	.175	-.541
110	928	.032	.117	.682	-.368
110	929	-.311	.123	.078	-.714
120	1	.052	.128	.501	-.368
120	2	.086	.118	.512	-.411
120	3	-.011	.109	.321	-.633
120	4	-.095	.107	.291	-.548
120	5	-.108	.098	.212	-.433
120	6	-.009	.093	.328	-.309
120	7	-.126	.101	.250	-.418
120	8	-.202	.118	.178	-.764
120	9	-.166	.102	.144	-.535
120	10	-.239	.112	.112	-.686
120	11	-.193	.116	.180	-.626
120	12	-.231	.113	.118	-.673
120	13	.138	.094	.459	-.187
120	14	.124	.111	.511	-.234
120	15	.077	.118	.479	-.348
120	16	.127	.105	.460	-.268
120	101	.159	.134	.676	-.239
120	102	.221	.156	.857	-.267
120	103	.215	.160	.946	-.282
120	104	.261	.166	1.018	-.288
120	105	.260	.140	.708	-.197
120	106	.187	.146	.665	-.305
120	107	.128	.139	.596	-.355
120	108	.078	.124	.595	-.359
120	109	.012	.127	.418	-.447
120	110	-.019	.112	.344	-.394
120	111	-.160	.118	.212	-.551
120	112	-.373	.131	.061	-.959
120	113	-.359	.140	.101	-1.122
120	114	-.282	.106	.101	-.708
120	115	-.324	.115	.082	-1.298
120	116	-.330	.108	.080	-.839
120	117	-.313	.107	.073	-.875
120	118	-.254	.106	.111	-.767
120	119	-.313	.119	.075	-.842
120	120	-.337	.122	.033	-.876
120	121	-.308	.126	.088	-.927
120	122	-.244	.110	.116	-.768
120	123	-.309	.135	.131	-1.101
120	124	-.339	.136	.131	-1.144
120	125	.158	.148	.667	-.418
120	126	.356	.134	.847	-.088
120	127	.476	.161	1.066	-.022
120	128	.475	.165	1.130	-.041
120	129	.478	.167	1.186	-.067
120	130	.472	.154	.936	.017
120	131	.404	.157	.852	-.083
120	132	.275	.151	.843	-.165
120	133	.162	.133	.557	-.283
120	134	.052	.100	.356	-.410
120	135	-.124	.100	.207	-.579
120	136	-.292	.110	.106	-.934
120	137	-.299	.103	.016	-.713
120	138	-.225	.101	.126	-.561
120	139	-.267	.109	.112	-.608
120	141	-.279	.108	.093	-.597
120	142	-.262	.089	.023	-.538
120	143	-.334	.102	-.000	-.746
120	144	-.363	.103	-.028	-.739
120	145	-.313	.101	.005	-.647
120	146	-.250	.091	.126	-.550
120	147	-.276	.106	.169	-.738
120	148	-.303	.110	.132	-.797
120	149	.164	.142	.705	-.466
120	150	.337	.134	.730	-.128
120	151	.457	.162	.966	-.045
120	152	.449	.164	.963	-.070
120	153	.459	.167	.970	-.063
120	154	.444	.135	.840	.028
120	155	.385	.143	.829	-.057
120	156	.126	.115	.506	-.240
120	157	-.007	.106	.355	-.350
120	158	-.101	.094	.196	-.453
120	159	-.276	.108	.066	-.664
120	160	-.308	.110	.035	-.749
120	161	-.284	.109	.056	-.688
120	162	-.246	.093	.067	-.582
120	163	-.258	.098	.071	-.621
120	164	-.279	.099	.044	-.642
120	165	-.308	.109	.053	-.773
120	166	-.320	.105	-.014	-.676
120	167	-.300	.102	.019	-.667
120	168	-.267	.097	.050	-.599
120	169	-.244	.105	.134	-.697
120	170	-.236	.113	.152	-.626
120	171	.173	.142	.683	-.320
120	172	.286	.139	.764	-.190
120	173	.389	.145	.869	-.048
120	174	.396	.147	.910	-.117
120	175	.369	.154	.801	-.176
120	176	.366	.148	.798	-.131
120	177	.327	.142	.791	-.167
120	178	.245	.118	.624	-.173
120	179	.111	.110	.480	-.283
120	180	-.022	.100	.274	-.362
120	181	-.147	.098	.171	-.603
120	182	-.269	.105	.082	-.720
120	183	-.282	.112	.120	-.782
120	184	-.269	.110	.118	-.725
120	185	-.273	.112	.118	-.750
120	186	-.274	.095	.007	-.611
120	187	-.291	.099	.017	-.610
120	188	-.305	.101	.043	-.636
120	189	-.339	.110	.037	-.827
120	190	-.321	.108	.078	-.700
120	191	-.308	.110	.087	-.662
120	192	-.278	.108	.106	-.602
120	193	-.260	.124	.118	-.672
120	194	-.269	.119	.126	-.831
120	195	.143	.130	.584	-.318
120	196	.261	.131	.708	-.159
120	197	.342	.142	.891	-.073
120	198	.330	.126	.750	-.117
120	199	.306	.142	.810	-.132
120	200	.307	.134	.800	-.104
120	201	.271	.128	.755	-.130
120	202	.084	.101	.396	-.240
120	203	-.064	.097	.219	-.371
120	204	-.182	.095	.123	-.516
120	205	-.297	.108	.074	-.758
120	206	-.295	.104	.015	-.741
120	207	-.293	.107	.073	-.799
120	208	-.251	.113	.113	-.824
120	209	-.294	.109	.038	-.951
120	210	-.309	.098	.017	-.625
120	211	-.342	.112	.030	-.829
120	212	-.343	.117	.037	-.863
120	213	-.327	.111	.040	-.786
120	214	-.294	.105	.028	-.699
120	215	-.282	.120	.071	-.870
120	216	-.380	.135	.097	-.888
120	217	.123	.124	.615	-.268

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	218	.208	.126	.700	-.293
120	219	.267	.138	.817	-.229
120	220	.268	.138	.795	-.218
120	221	.243	.139	.780	-.204
120	222	.261	.123	.806	-.104
120	223	.229	.127	.787	-.196
120	224	.172	.120	.667	-.208
120	225	.065	.116	.505	-.296
120	226	-.066	.108	.403	-.414
120	227	-.219	.126	.202	-.660
120	228	-.348	.153	.136	-.945
120	229	-.353	.148	.129	-1.027
120	230	-.338	.125	.016	-1.230
120	231	-.348	.139	.039	-1.298
120	232	-.347	.137	.010	-1.239
120	233	-.361	.137	.006	-1.153
120	234	-.340	.117	-.020	-.769
120	235	-.354	.128	-.005	-.862
120	236	-.360	.134	.027	-.853
120	237	-.320	.124	.088	-.820
120	238	-.266	.114	.097	-.670
120	239	-.272	.120	.128	-.650
120	240	-.249	.122	.129	-.700
120	241	.148	.112	.576	-.191
120	242	.180	.120	.725	-.181
120	243	.199	.132	.888	-.195
120	244	.212	.127	.905	-.154
120	245	.174	.126	.717	-.263
120	246	.196	.135	.724	-.258
120	247	.153	.130	.700	-.298
120	248	.021	.112	.405	-.357
120	249	-.116	.114	.283	-.558
120	250	-.299	.145	.155	-.944
120	251	-.509	.210	.003	-1.378
120	252	-.444	.182	.155	-1.280
120	253	-.354	.156	.035	-1.453
120	254	-.368	.159	.014	-1.535
120	255	-.416	.132	.040	-1.144
120	256	-.301	.132	.138	-.825
120	257	-.260	.113	.077	-.984
120	258	-.270	.121	.116	-.967
120	259	-.282	.115	.048	-.757
120	260	-.224	.110	.173	-.617
120	261	-.192	.108	.141	-.609
120	262	-.210	.114	.148	-.679
120	263	.059	.125	.504	-.376
120	264	.137	.122	.606	-.304
120	265	.197	.108	.683	-.167
120	266	.182	.112	.640	-.187
120	267	.152	.118	.611	-.239
120	268	.128	.128	.530	-.269
120	269	.207	.108	.673	-.107
120	270	.151	.108	.542	-.177
120	271	.025	.101	.430	-.295
120	272	-.096	.096	.275	-.447
120	273	-.229	.117	.091	-.745
120	274	-.517	.210	-.010	-1.627
120	275	-.416	.153	.021	-1.177
120	276	-.376	.153	.018	-1.208
120	277	-.349	.139	.044	-1.078
120	278	-.375	.154	.183	-1.099
120	279	.041	.169	.765	-.537
120	280	-.232	.105	.085	-.580
120	281	-.202	.106	.123	-.621
120	282	-.218	.109	.122	-.610
120	283	-.247	.109	.093	-.672
120	284	-.211	.104	.101	-.608
120	285	-.196	.105	.157	-.547
120	286	-.233	.109	.089	-.673
120	301	-.238	.103	.141	-.722
120	302	-.196	.108	.210	-.636
120	303	-.206	.113	.170	-.722
120	304	-.187	.117	.167	-.710
120	305	-.268	.122	.233	-.705
120	306	-.356	.135	.183	-.783
120	307	-.397	.120	.029	-.903
120	308	-.354	.113	.039	-.752
120	309	-.329	.109	.049	-.731
120	310	-.188	.106	.159	-.534
120	311	-.223	.110	.127	-.567
120	312	-.326	.121	.123	-.762
120	313	-.289	.111	.094	-.677
120	314	-.328	.125	.104	-.842
120	315	-.332	.124	.113	-.778
120	316	-.291	.126	.167	-.792
120	317	-.201	.097	.192	-.551
120	318	-.195	.103	.225	-.567
120	319	-.274	.116	.181	-.775
120	320	-.319	.119	.113	-.753
120	321	-.305	.120	.065	-.746
120	322	-.296	.120	.122	-.808
120	323	-.320	.115	.081	-.769
120	324	-.322	.121	.094	-.903
120	325	-.050	.133	.305	-.718
120	326	-.158	.248	.879	-.901
120	327	-.248	.095	.062	-.586
120	328	-.213	.093	.124	-.536
120	329	-.209	.085	.080	-.491
120	330	-.193	.088	.121	-.477
120	331	-.223	.088	.095	-.570
120	332	-.207	.092	.128	-.517
120	333	-.216	.095	.107	-.570
120	334	-.198	.100	.110	-.572
120	335	-.242	.104	.094	-.625
120	336	-.220	.102	.111	-.596
120	337	-.148	.091	.183	-.478
120	338	-.076	.096	.248	-.523
120	339	-.033	.103	.347	-.623
120	340	.085	.183	.579	-.925
120	341	-.190	.225	.756	-.946
120	342	-.225	.157	.443	-.924
120	343	-.243	.138	.317	-.709
120	344	-.209	.136	.346	-.675
120	345	-.208	.082	.047	-.496
120	346	-.179	.084	.084	-.483
120	347	-.169	.102	.157	-.512
120	348	-.186	.085	.086	-.510
120	349	-.197	.090	.103	-.562
120	350	-.175	.094	.145	-.560
120	351	-.209	.098	.113	-.597
120	352	-.187	.097	.126	-.600
120	353	-.200	.091	.087	-.502
120	354	-.175	.094	.132	-.456
120	355	-.136	.092	.141	-.410
120	356	-.024	.092	.304	-.317
120	357	.060	.106	.399	-.440
120	358	.120	.182	.673	-.723
120	359	-.126	.195	.602	-.716
120	360	-.119	.156	.355	-.607
120	361	-.102	.139	.397	-.545
120	362	-.073	.141	.421	-.531
120	363	-.233	.108	.153	-.803
120	364	-.195	.104	.182	-.682
120	365	-.191	.092	.157	-.491
120	366	-.171	.095	.172	-.472
120	367	-.207	.097	.140	-.504
120	368	-.182	.096	.184	-.472
120	369	-.190	.093	.166	-.504
120	370	-.167	.097	.206	-.512
120	371	-.208	.102	.184	-.746
120	372	-.183	.098	.198	-.589
120	373	-.127	.091	.163	-.449
120	374	-.020	.096	.275	-.369
120	375	.024	.108	.355	-.443
120	376	.071	.154	.509	-.590
120	377	-.094	.162	.518	-.842
120	378	-.116	.146	.340	-.983
120	379	-.160	.145	.319	-.863
120	380	-.105	.138	.332	-.737
120	381	-.218	.110	.234	-.639

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
120	382	-.211	.116	.160	-.633
120	383	-.256	.117	.110	-.679
120	384	-.205	.111	.145	-.728
120	385	-.195	.107	.104	-.730
120	386	-.248	.112	.138	-.631
120	387	-.260	.118	.095	-.876
120	388	-.207	.113	.134	-.880
120	389	-.183	.108	.169	-.586
120	390	-.191	.116	.184	-.638
120	391	-.185	.116	.189	-.598
120	392	-.041	.111	.305	-.456
120	393	.050	.104	.391	-.313
120	394	.073	.164	.550	-.594
120	395	-.119	.185	.628	-.894
120	396	-.087	.148	.425	-.600
120	397	-.074	.121	.426	-.534
120	398	-.078	.130	.468	-.584
120	399	-.298	.122	.132	-.681
120	400	-.225	.113	.174	-.662
120	401	-.195	.103	.194	-.576
120	402	-.210	.111	.197	-.674
120	403	-.270	.115	.150	-.709
120	404	-.212	.109	.153	-.649
120	405	-.208	.109	.144	-.630
120	406	-.220	.116	.174	-.685
120	407	-.289	.126	.143	-.773
120	408	-.229	.118	.174	-.694
120	409	-.142	.098	.194	-.465
120	410	-.058	.108	.322	-.402
120	411	-.031	.126	.406	-.555
120	412	.049	.150	.578	-.778
120	413	-.020	.150	.480	-.459
120	414	-.035	.146	.524	-.490
120	415	-.113	.138	.293	-.538
120	416	-.058	.132	.333	-.458
120	417	-.192	.105	.140	-.546
120	418	-.194	.111	.168	-.556
120	419	-.247	.115	.138	-.611
120	420	-.201	.110	.162	-.547
120	421	-.203	.103	.157	-.606
120	422	-.277	.132	.137	-.848
120	423	-.038	.131	.328	-.655
120	424	-.331	.157	.129	-1.450
120	425	-.326	.149	.047	-.942
120	426	-.342	.166	.075	-1.039
120	427	-.271	.121	.085	-.690
120	428	-.096	.098	.227	-.498
120	429	.003	.101	.399	-.356
120	430	.034	.130	.489	-.493
120	431	-.038	.126	.368	-.615
120	432	-.041	.128	.400	-.499
120	433	-.018	.120	.381	-.591
120	434	-.024	.128	.375	-.620
120	435	-.248	.120	.091	-.749
120	436	-.163	.113	.268	-.649
120	437	-.187	.098	.144	-.563
120	438	-.200	.105	.137	-.592
120	439	-.243	.109	.138	-.623
120	440	-.165	.104	.171	-.542
120	441	-.125	.094	.180	-.454
120	442	-.137	.106	.202	-.505
120	443	-.203	.110	.137	-.592
120	444	-.151	.108	.164	-.543
120	445	-.089	.107	.285	-.531
120	446	.042	.096	.394	-.285
120	447	.007	.098	.339	-.306
120	448	.064	.100	.381	-.275
120	449	.030	.130	.429	-.425
120	450	.003	.139	.472	-.490
120	451	-.066	.133	.388	-.835
120	452	-.006	.124	.407	-.779
120	453	-.240	.103	.103	-.660
120	454	-.143	.099	.241	-.595
120	455	-.235	.119	.208	-.777
120	456	.011	.114	.387	-.380
120	457	-.065	.135	.351	-.649
120	801	.053	.091	.371	-.250
120	901	-.334	.125	.141	-.817
120	902	-.360	.129	.168	-.828
120	903	-.442	.130	-.014	-.952
120	904	-.385	.124	.035	-.780
120	905	-.260	.118	.181	-.671
120	906	-.177	.136	.361	-.594
120	907	-.465	.142	-.014	-.912
120	908	-.458	.135	.008	-.933
120	909	-.318	.148	.201	-.883
120	910	-.282	.133	.242	-.785
120	911	-.266	.113	.136	-.691
120	912	-.320	.125	.168	-.879
120	913	-.285	.114	.066	-.669
120	914	-.311	.122	.134	-.746
120	915	-.222	.121	.198	-.651
120	916	-.193	.118	.187	-.720
120	917	-.282	.124	.109	-.716
120	918	.076	.110	.479	-.317
120	919	.064	.105	.417	-.354
120	919	.064	.105	.417	-.354
120	920	.095	.108	.506	-.282
120	921	.090	.116	.502	-.367
120	922	-.219	.104	.131	-.651
130	923	.109	.120	.635	-.257
130	924	.147	.116	.632	-.220
130	925	-.180	.116	.242	-.569
130	926	.209	.121	.688	-.190
130	927	-.233	.112	.116	-.787
130	928	.116	.123	.701	-.276
130	929	-.331	.123	.121	-.874
130	1	.026	.116	.444	-.491
130	2	.064	.104	.404	-.333
130	3	-.056	.111	.363	-.453
130	4	-.121	.100	.177	-.621
130	5	-.167	.094	.145	-.531
130	6	-.037	.089	.258	-.416
130	7	-.169	.106	.244	-.596
130	8	-.189	.140	.285	-.617
130	9	-.192	.120	.179	-.639
130	10	-.247	.137	.247	-.775
130	11	-.184	.129	.225	-.610
130	12	-.227	.130	.207	-.677
130	13	.144	.113	.518	-.202
130	14	.123	.123	.502	-.292
130	15	.055	.117	.499	-.336
130	16	.095	.105	.497	-.233
130	101	.218	.141	.733	-.191
130	102	.266	.160	.841	-.210
130	103	.184	.163	.765	-.365
130	104	.212	.164	.838	-.355
130	105	.103	.142	.531	-.437
130	106	.069	.135	.546	-.462
130	107	.009	.126	.459	-.390
130	108	.006	.116	.360	-.400
130	109	-.044	.108	.350	-.434
130	110	-.070	.096	.250	-.404
130	111	-.172	.099	.151	-.497
130	112	-.327	.111	-.000	-.729
130	113	-.287	.115	.062	-.691
130	114	-.249	.105	.129	-.716
130	115	-.273	.111	.132	-.774
130	116	-.305	.109	.056	-.701
130	117	-.264	.108	.131	-.624
130	118	-.211	.095	.084	-.535
130	119	-.251	.109	.052	-.945
130	120	-.295	.111	.027	-.730
130	121	-.238	.109	.121	-.677
130	122	-.208	.102	.123	-.970
130	123	-.251	.120	.106	-.812
130	124	-.299	.125	.052	-.790
130	125	.329	.155	.866	-.144
130	126	.480	.146	.934	.003
130	127	.507	.157	.967	.007

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	128	.444	.159	.938	-.045
130	129	.346	.164	.850	-.206
130	130	.370	.154	.887	-.138
130	131	.317	.149	.821	-.199
130	132	.152	.137	.613	-.248
130	133	.082	.131	.490	-.355
130	134	-.031	.093	.287	-.389
130	135	-.149	.094	.173	-.501
130	136	-.263	.108	.096	-.717
130	137	-.248	.097	.134	-.634
130	138	-.229	.092	.078	-.512
130	139	-.252	.099	.072	-.570
130	141	-.262	.099	.071	-.588
130	142	-.239	.100	.056	-.595
130	143	-.277	.111	.042	-.727
130	144	-.330	.115	-.001	-.782
130	145	-.268	.108	.049	-.681
130	146	-.232	.092	.066	-.535
130	147	-.239	.101	.093	-.574
130	148	-.290	.104	.034	-.651
130	149	.344	.151	.936	-.217
130	150	.432	.132	.865	.039
130	151	.456	.150	.948	.007
130	152	.385	.152	.873	-.060
130	153	.307	.160	.789	-.147
130	154	.310	.145	.779	-.167
130	155	.279	.138	.751	-.169
130	156	.014	.113	.367	-.413
130	157	-.077	.105	.247	-.487
130	158	-.141	.101	.188	-.474
130	159	-.239	.115	.139	-.635
130	160	-.293	.118	.094	-.696
130	161	-.248	.115	.126	-.642
130	162	-.237	.095	.047	-.586
130	163	-.257	.101	.029	-.613
130	164	-.258	.101	.048	-.617
130	165	-.274	.106	.044	-.725
130	166	-.275	.108	.074	-.634
130	167	-.281	.112	.110	-.635
130	168	-.261	.111	.131	-.619
130	169	-.259	.114	.085	-.682
130	170	-.236	.091	.053	-.604
130	171	.307	.140	.726	-.184
130	172	.360	.143	.824	-.111
130	173	.355	.151	.938	-.099
130	174	.326	.140	.797	-.208
130	175	.200	.168	.766	-.450
130	176	.225	.156	.739	-.434
130	177	.212	.127	.639	-.291
130	178	.133	.113	.470	-.184
130	179	-.015	.106	.349	-.284
130	180	-.084	.097	.210	-.388
130	181	-.176	.099	.095	-.518
130	182	-.236	.100	.118	-.702
130	183	-.255	.108	.124	-.749
130	184	-.246	.107	.117	-.909
130	185	-.253	.108	.115	-.760
130	186	-.256	.094	.035	-.590
130	187	-.278	.099	.048	-.633
130	188	-.277	.099	.051	-.613
130	189	-.294	.105	.053	-.699
130	190	-.294	.101	.042	-.658
130	191	-.298	.106	.065	-.674
130	192	-.279	.106	.070	-.634
130	193	-.279	.113	.114	-.636
130	194	-.271	.103	.096	-.767
130	195	.298	.145	.903	-.154
130	196	.344	.151	.973	-.146
130	197	.317	.155	.901	-.197
130	198	.264	.136	.744	-.106
130	199	.164	.149	.626	-.298
130	200	.186	.141	.623	-.304
130	201	.175	.121	.551	-.191
130	202	.014	.093	.358	-.392
130	203	-.115	.098	.239	-.549
130	204	-.206	.101	.105	-.657
130	205	-.275	.112	.073	-.828
130	206	-.264	.113	.157	-.674
130	207	-.276	.120	.191	-.733
130	208	-.236	.111	.121	-.689
130	209	-.280	.122	.179	-.756
130	210	-.294	.099	.050	-.616
130	211	-.320	.113	.051	-.790
130	212	-.321	.119	.064	-.855
130	213	-.308	.116	.073	-.875
130	214	-.272	.102	.115	-.634
130	215	-.282	.110	.101	-.673
130	216	-.352	.129	.272	-.886
130	217	.224	.136	.786	-.170
130	218	.254	.137	.798	-.155
130	219	.229	.145	.843	-.147
130	220	.185	.142	.828	-.214
130	221	.106	.150	.714	-.481
130	222	.143	.138	.565	-.422
130	223	.131	.124	.525	-.314
130	224	.075	.113	.439	-.346
130	225	-.012	.108	.411	-.391
130	226	-.103	.101	.351	-.548
130	227	-.219	.120	.310	-.808
130	228	-.286	.131	.218	-.966
130	229	-.297	.135	.186	-1.021
130	230	-.279	.110	.076	-.773
130	231	-.296	.122	.043	-.845
130	232	-.304	.118	.013	-.841
130	233	-.325	.120	.003	-.813
130	234	-.319	.114	.035	-.824
130	235	-.336	.126	.025	-.802
130	236	-.341	.129	.022	-.972
130	237	-.313	.126	.153	-.804
130	238	-.269	.123	.178	-.734
130	239	-.304	.128	.145	-.933
130	240	-.278	.125	.148	-.825
130	241	.217	.116	.598	-.150
130	242	.216	.126	.672	-.170
130	243	.172	.138	.792	-.288
130	244	.159	.135	.718	-.321
130	245	.104	.128	.508	-.385
130	246	.092	.140	.556	-.452
130	247	.067	.117	.478	-.299
130	248	-.036	.100	.352	-.452
130	249	-.114	.099	.204	-.476
130	250	-.260	.123	.132	-.835
130	251	-.403	.160	.035	-1.329
130	252	-.364	.149	.067	-1.188
130	253	-.356	.164	.094	-1.248
130	254	-.398	.172	.058	-1.310
130	255	-.391	.143	.045	-1.129
130	256	-.317	.146	.137	-.914
130	257	-.268	.126	.159	-.696
130	258	-.305	.140	.137	-.791
130	259	-.322	.132	.113	-.975
130	260	-.208	.133	.287	-.688
130	261	-.195	.130	.242	-.677
130	262	-.244	.140	.286	-.857
130	263	.118	.121	.590	-.307
130	264	.170	.124	.609	-.268
130	265	.190	.109	.637	-.232
130	266	.156	.117	.665	-.329
130	267	.085	.135	.608	-.508
130	268	.063	.123	.466	-.430
130	269	.138	.105	.582	-.226
130	270	.077	.105	.472	-.301
130	271	-.040	.101	.301	-.430
130	272	-.123	.100	.215	-.483
130	273	-.203	.121	.169	-.662
130	274	-.426	.206	.096	-1.517
130	275	-.433	.165	.055	-1.214
130	276	-.375	.165	.087	-1.406
130	277	-.339	.150	.069	-1.052
130	278	-.405	.188	.132	-1.354

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	279	-.035	.166	.595	-.540	130	343	.018	.172	.712	-.569	130	393	.090	.098	.441	-.254
130	280	-.206	.120	.188	-.692	130	344	.058	.163	.703	-.496	130	394	.195	.125	.668	-.253
130	281	-.196	.134	.186	-.807	130	345	-.275	.101	.049	-.672	130	395	.126	.164	.789	-.556
130	282	-.234	.142	.180	-.832	130	346	-.227	.102	.117	-.651	130	396	.118	.137	.660	-.443
130	283	-.271	.138	.152	-.707	130	347	-.188	.107	.145	-.544	130	397	.110	.125	.560	-.291
130	284	-.232	.134	.152	-.680	130	348	-.235	.100	.114	-.669	130	398	.106	.133	.616	-.328
130	285	-.188	.124	.263	-.682	130	349	-.261	.087	.053	-.551	130	399	-.399	.157	.171	-1.248
130	286	-.227	.121	.169	-.708	130	350	-.213	.089	.081	-.507	130	400	-.319	.142	.216	-1.121
130	301	-.236	.106	.200	-.703	130	351	-.255	.094	.046	-.562	130	401	-.289	.134	.151	-.925
130	302	-.178	.110	.262	-.629	130	352	-.227	.092	.076	-.526	130	402	-.312	.147	.152	-.968
130	303	-.199	.114	.223	-.745	130	353	-.259	.096	.053	-.668	130	403	-.387	.160	.115	-1.103
130	304	-.172	.113	.251	-.663	130	354	-.209	.097	.110	-.587	130	404	-.305	.149	.150	-.926
130	305	-.209	.116	.169	-.693	130	355	-.137	.096	.170	-.481	130	405	-.295	.139	.109	-.938
130	306	-.221	.150	.307	-.772	130	356	.013	.099	.348	-.334	130	406	-.302	.145	.144	-1.136
130	307	-.482	.163	.119	-.953	130	357	.100	.103	.448	-.277	130	407	-.390	.160	.084	-1.126
130	308	-.421	.135	.077	-.896	130	358	.264	.122	.711	-.192	130	408	-.312	.151	.115	-.982
130	309	-.410	.126	.040	-.956	130	359	.231	.187	.963	-.369	130	409	-.182	.110	.171	-.636
130	310	-.209	.116	.221	-.757	130	360	.165	.157	.647	-.335	130	410	-.048	.109	.338	-.412
130	311	-.250	.123	.193	-1.026	130	361	.100	.157	.607	-.469	130	411	.007	.119	.421	-.440
130	312	-.326	.120	.191	-.775	130	362	.143	.155	.644	-.420	130	412	.165	.123	.557	-.242
130	313	-.292	.116	.082	-.685	130	363	-.303	.117	.097	-.861	130	413	.156	.153	.710	-.458
130	314	-.300	.124	.105	-.703	130	364	-.265	.112	.110	-.937	130	414	.115	.137	.661	-.389
130	315	-.313	.131	.158	-.742	130	365	-.306	.105	.114	-.707	130	415	.043	.154	.565	-.601
130	316	-.213	.129	.206	-.699	130	366	-.259	.108	.194	-.714	130	416	.097	.146	.591	-.515
130	317	-.229	.096	.078	-.574	130	367	-.302	.114	.158	-.728	130	417	-.265	.139	.165	-.883
130	318	-.203	.101	.135	-.552	130	368	-.266	.114	.179	-.849	130	418	-.262	.145	.291	-.913
130	319	-.287	.115	.097	-.676	130	369	-.281	.108	.030	-.818	130	419	-.316	.144	.305	-.946
130	320	-.256	.111	.075	-.655	130	370	-.231	.110	.114	-.892	130	420	-.263	.140	.313	-.940
130	321	-.290	.109	.141	-.785	130	371	-.281	.115	.060	-.810	130	421	-.277	.142	.258	-1.004
130	322	-.265	.106	.089	-.727	130	372	-.247	.110	.066	-.736	130	422	-.327	.176	.152	-1.263
130	323	-.308	.107	.029	-.699	130	373	-.175	.092	.162	-.581	130	423	-.062	.174	.369	-1.215
130	324	-.289	.110	.054	-.690	130	374	-.000	.098	.384	-.432	130	424	-.341	.200	.130	-1.367
130	325	.015	.102	.323	-.362	130	375	.079	.109	.521	-.374	130	425	-.365	.205	.118	-1.345
130	326	.243	.225	.911	-.740	130	376	.217	.124	.712	-.222	130	426	-.379	.232	.182	-1.538
130	327	-.268	.104	.078	-.629	130	377	.202	.158	.762	-.307	130	427	-.274	.152	.120	-.841
130	328	-.234	.102	.097	-.578	130	378	.131	.143	.802	-.361	130	428	-.060	.112	.291	-.454
130	329	-.247	.102	.062	-.555	130	379	.078	.147	.658	-.419	130	429	.040	.108	.448	-.362
130	330	-.211	.103	.101	-.522	130	380	.129	.137	.694	-.323	130	430	.111	.126	.539	-.332
130	331	-.256	.105	.070	-.571	130	381	-.312	.130	.043	-.863	130	431	.098	.115	.520	-.368
130	332	-.234	.107	.094	-.544	130	382	-.312	.134	.077	-.796	130	432	.089	.141	.599	-.443
130	333	-.252	.101	.041	-.605	130	383	-.371	.135	.027	-.962	130	433	.113	.118	.583	-.388
130	334	-.216	.105	.094	-.583	130	384	-.307	.129	.095	-.773	130	434	.105	.124	.614	-.403
130	335	-.271	.111	.060	-.675	130	385	-.270	.116	.087	-.740	130	435	-.299	.159	.230	-1.143
130	336	-.235	.106	.082	-.580	130	386	-.296	.125	.074	-.937	130	436	-.199	.129	.338	-.919
130	337	-.148	.094	.180	-.464	130	387	-.337	.128	.059	-.856	130	437	-.167	.111	.164	-.627
130	338	-.032	.100	.301	-.338	130	388	-.269	.121	.093	-.668	130	438	-.196	.128	.202	-.770
130	339	.024	.107	.374	-.312	130	389	-.266	.107	.126	-.653	130	439	-.283	.159	.119	-.942
130	340	.219	.121	.593	-.194	130	390	-.268	.114	.119	-.685	130	440	-.209	.150	.172	-.778
130	341	.250	.210	.844	-.618	130	391	-.232	.108	.148	-.592	130	441	-.168	.114	.176	-.591
130	342	.103	.177	.683	-.509	130	392	-.041	.101	.341	-.329	130	442	-.175	.122	.231	-.746

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
130	443	-.250	.128	.157	-.851
130	444	-.180	.123	.222	-.775
130	445	-.117	.129	.284	-.745
130	446	.043	.105	.380	-.355
130	447	.017	.109	.385	-.357
130	448	.098	.109	.463	-.310
130	449	.116	.095	.402	-.209
130	450	.103	.102	.415	-.242
130	451	.028	.113	.398	-.447
130	452	.079	.106	.444	-.379
130	453	-.231	.134	.199	-1.032
130	454	-.179	.126	.208	-.846
130	455	-.317	.152	.104	-.893
130	456	.088	.117	.544	-.379
130	457	.080	.112	.503	-.407
130	801	.051	.095	.339	-.337
130	901	-.273	.109	.142	-.626
130	902	-.333	.128	.164	-.840
130	903	-.468	.133	-.059	-1.129
130	904	-.324	.127	.129	-.755
130	905	-.060	.124	.363	-.653
130	906	-.090	.121	.378	-.526
130	907	-.318	.130	.052	-.798
130	908	-.537	.139	-.085	-1.000
130	909	-.276	.123	.172	-.742
130	910	-.252	.122	.229	-.675
130	911	-.270	.115	.143	-.732
130	912	-.344	.134	.011	-1.034
130	913	-.249	.109	.197	-.634
130	914	-.279	.116	.128	-.717
130	915	-.257	.134	.189	-.774
130	916	-.276	.132	.133	-.748
130	917	-.262	.124	.132	-.777
130	918	.032	.100	.389	-.308
130	919	.046	.111	.405	-.372
130	919	.046	.111	.405	-.372
130	920	.046	.098	.381	-.314
130	921	.089	.101	.406	-.287
130	922	-.203	.126	.247	-.791
130	923	.063	.104	.514	-.243
130	924	.114	.101	.550	-.188
130	925	-.201	.110	.139	-.582
130	926	.194	.125	.714	-.264
130	927	-.272	.135	.152	-.966
130	928	.192	.119	.629	-.212
130	929	-.268	.119	.186	-.732
140	1	.021	.104	.418	-.362
140	2	.025	.099	.391	-.335
140	3	-.110	.116	.356	-.497
140	4	-.130	.107	.173	-.621
140	5	-.182	.106	.151	-.562
140	6	-.021	.102	.340	-.397
140	7	-.140	.113	.247	-.535
140	8	-.058	.123	.299	-.647
140	9	-.083	.105	.260	-.462
140	10	-.116	.117	.298	-.555
140	11	-.151	.126	.256	-.681
140	12	-.109	.108	.308	-.496
140	13	.099	.107	.426	-.411
140	14	.086	.106	.397	-.410
140	15	.092	.112	.474	-.254
140	16	.068	.109	.476	-.275
140	101	.297	.159	.856	-.254
140	102	.325	.168	.919	-.193
140	103	.115	.167	.737	-.444
140	104	.112	.155	.747	-.397
140	105	-.116	.146	.397	-.617
140	106	-.062	.147	.389	-.556
140	107	-.092	.119	.315	-.510
140	108	-.082	.109	.342	-.454
140	109	-.076	.106	.315	-.428
140	110	-.129	.093	.192	-.439
140	111	-.184	.095	.164	-.513
140	112	-.331	.107	.061	-.725
140	113	-.251	.104	.106	-.632
140	114	-.250	.103	.077	-.588
140	115	-.244	.107	.117	-.604
140	116	-.317	.110	.046	-.717
140	117	-.236	.105	.100	-.626
140	118	-.226	.118	.134	-.696
140	119	-.232	.123	.108	-.696
140	120	-.321	.132	.056	-.812
140	121	-.246	.131	.125	-.759
140	122	-.224	.105	.082	-.733
140	123	-.222	.112	.120	-.810
140	124	-.306	.118	.050	-.887
140	125	.451	.173	1.091	-.066
140	126	.497	.156	1.029	.033
140	127	.412	.164	.981	-.075
140	128	.249	.175	.892	-.259
140	129	.055	.191	.711	-.542
140	130	.108	.190	.629	-.491
140	131	.179	.137	.580	-.336
140	132	.084	.117	.536	-.276
140	133	-.007	.117	.397	-.498
140	134	-.108	.096	.188	-.447
140	135	-.174	.100	.137	-.529
140	136	-.231	.100	.079	-.534
140	137	-.232	.105	.104	-.601
140	138	-.233	.096	.120	-.556
140	139	-.228	.101	.136	-.569
140	141	-.239	.101	.103	-.581
140	142	-.236	.095	.040	-.544
140	143	-.235	.099	.056	-.605
140	144	-.328	.106	-.015	-.722
140	145	-.246	.101	.078	-.638
140	146	-.236	.104	.161	-.604
140	147	-.232	.110	.183	-.623
140	148	-.333	.118	.110	-.753
140	149	.419	.174	.968	-.099
140	150	.452	.156	.989	-.016
140	151	.369	.166	.927	-.115
140	152	.204	.176	.793	-.355
140	153	.039	.191	.674	-.624
140	154	.044	.184	.523	-.598
140	155	.150	.132	.586	-.493
140	156	-.094	.112	.256	-.483
140	157	-.114	.104	.224	-.464
140	158	-.180	.106	.203	-.500
140	159	-.217	.116	.195	-.704
140	160	-.316	.122	.124	-.823
140	161	-.236	.116	.170	-.723
140	162	-.195	.102	.139	-.510
140	163	-.209	.108	.157	-.762
140	164	-.216	.106	.128	-.553
140	165	-.219	.108	.158	-.578
140	166	-.234	.092	.033	-.576
140	167	-.249	.097	.042	-.630
140	168	-.247	.099	.055	-.663
140	169	-.247	.101	.078	-.598
140	170	-.234	.101	.135	-.625
140	171	.380	.159	.904	-.102
140	172	.384	.158	.919	-.096
140	173	.295	.153	.855	-.192
140	174	.216	.143	.703	-.305
140	175	-.022	.180	.529	-.847
140	176	-.000	.192	.565	-.760
140	177	.124	.122	.544	-.436
140	178	.070	.104	.399	-.297
140	179	-.029	.101	.283	-.369
140	180	-.116	.097	.177	-.444
140	181	-.177	.101	.106	-.499
140	182	-.208	.100	.131	-.534
140	183	-.225	.106	.133	-.580
140	184	-.228	.106	.131	-.584
140	185	-.225	.107	.135	-.588
140	186	-.205	.093	.123	-.536
140	187	-.225	.098	.110	-.561
140	188	-.237	.101	.089	-.589
140	189	-.242	.105	.103	-.636

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	190	-.246	.097	.058	-.648
140	191	-.268	.105	.033	-.761
140	192	-.267	.103	.058	-.726
140	193	-.265	.106	.102	-.733
140	194	-.261	.108	.111	-.653
140	195	.297	.152	.834	-.338
140	196	.300	.148	.786	-.301
140	197	.217	.141	.848	-.265
140	198	.167	.139	.627	-.356
140	199	.001	.157	.524	-.657
140	200	.024	.166	.557	-.700
140	201	.104	.114	.550	-.415
140	202	-.023	.090	.257	-.379
140	203	-.122	.096	.219	-.492
140	204	-.194	.102	.160	-.570
140	205	-.223	.114	.172	-.639
140	206	-.214	.096	.114	-.578
140	207	-.227	.102	.105	-.661
140	208	-.280	.173	.160	-2.210
140	209	-.237	.104	.091	-.701
140	210	-.245	.107	.136	-.750
140	211	-.272	.117	.109	-.824
140	212	-.290	.123	.091	-.840
140	213	-.294	.127	.162	-.818
140	214	-.272	.112	.127	-.709
140	215	-.292	.115	.142	-.719
140	216	-.314	.124	.160	-.740
140	217	.265	.141	.777	-.220
140	218	.275	.143	.847	-.235
140	219	.188	.142	.718	-.311
140	220	.099	.140	.630	-.357
140	221	-.029	.151	.491	-.547
140	222	.017	.149	.448	-.502
140	223	.070	.111	.444	-.360
140	224	.023	.102	.364	-.366
140	225	-.034	.100	.297	-.459
140	226	-.091	.094	.198	-.403
140	227	-.162	.113	.172	-.652
140	228	-.200	.124	.155	-.851
140	229	-.204	.126	.140	-.873
140	230	-.204	.120	.179	-.736
140	231	-.219	.130	.212	-.731
140	232	-.242	.131	.180	-.809
140	233	-.259	.135	.147	-.754
140	234	-.242	.110	.117	-.661
140	235	-.262	.121	.336	-.726
140	236	-.280	.124	.267	-.731
140	237	-.289	.131	.176	-.831
140	238	-.277	.130	.248	-.746
140	239	-.338	.127	.104	-.828
140	240	-.309	.123	.037	-.853
140	241	.229	.117	.704	-.278
140	242	.206	.121	.711	-.329
140	243	.104	.127	.546	-.458
140	244	.064	.124	.437	-.456
140	245	-.029	.153	.433	-.537
140	246	-.025	.144	.472	-.462
140	247	.011	.111	.448	-.312
140	248	-.046	.097	.300	-.361
140	249	-.078	.105	.281	-.567
140	250	-.175	.138	.200	-.914
140	251	-.256	.173	.121	-1.358
140	252	-.225	.169	.130	-1.247
140	253	-.255	.192	.245	-1.083
140	254	-.305	.205	.193	-1.175
140	255	-.288	.171	.148	-1.522
140	256	-.210	.119	.200	-.641
140	257	-.171	.121	.180	-.695
140	258	-.217	.132	.187	-.786
140	259	-.278	.136	.123	-.816
140	260	-.281	.154	.170	-.899
140	261	-.247	.126	.106	-.877
140	262	-.312	.138	.064	-.977
140	263	.137	.117	.533	-.247
140	264	.177	.115	.617	-.208
140	265	.127	.106	.517	-.278
140	266	.073	.113	.534	-.377
140	267	-.037	.131	.387	-.607
140	268	.032	.128	.436	-.435
140	269	.104	.097	.507	-.278
140	270	.049	.099	.457	-.288
140	271	-.050	.102	.383	-.429
140	272	-.097	.108	.303	-.523
140	273	-.137	.115	.206	-.559
140	274	-.286	.189	.171	-1.225
140	275	-.334	.177	.128	-1.181
140	276	-.286	.168	.156	-1.137
140	277	-.267	.169	.193	-1.029
140	278	-.320	.199	.250	-1.535
140	279	-.110	.141	.514	-.592
140	280	-.138	.114	.227	-.522
140	281	-.107	.103	.245	-.606
140	282	-.150	.111	.205	-.675
140	283	-.199	.114	.169	-.733
140	284	-.161	.108	.197	-.655
140	285	-.209	.137	.198	-.902
140	286	-.215	.122	.142	-.806
140	301	-.240	.101	.095	-.677
140	302	-.155	.105	.209	-.644
140	303	-.181	.111	.183	-.658
140	304	-.154	.106	.174	-.611
140	305	-.229	.105	.179	-.549
140	306	-.218	.113	.232	-.633
140	307	-.307	.173	.148	-.978
140	308	-.353	.184	.294	-.904
140	309	-.382	.141	.430	-1.009
140	310	-.214	.118	.290	-.743
140	311	-.242	.118	.341	-.707
140	312	-.345	.124	.133	-.791
140	313	-.336	.120	.119	-.724
140	314	-.353	.136	.067	-.827
140	315	-.377	.141	.039	-.866
140	316	-.342	.162	.157	-1.069
140	317	-.300	.113	.006	-1.017
140	318	-.240	.112	.085	-.741
140	319	-.321	.121	.051	-.769
140	320	-.289	.113	.160	-.680
140	321	-.313	.112	.065	-.790
140	322	-.314	.123	.053	-.838
140	323	-.350	.121	-.000	-.825
140	324	-.333	.124	.029	-.814
140	325	.032	.120	.411	-.385
140	326	.343	.157	.981	-.168
140	327	-.303	.129	.078	-1.131
140	328	-.266	.123	.108	-1.018
140	329	-.298	.112	.062	-1.007
140	330	-.230	.113	.130	-1.017
140	331	-.273	.112	.095	-.941
140	332	-.245	.110	.114	-.835
140	333	-.305	.115	.054	-.843
140	334	-.243	.117	.194	-.803
140	335	-.313	.126	.081	-.847
140	336	-.272	.120	.076	-.865
140	337	-.136	.107	.201	-.456
140	338	.022	.116	.393	-.339
140	339	.088	.128	.529	-.318
140	340	.267	.143	.739	-.195
140	341	.323	.143	.792	-.254
140	342	.319	.151	.836	-.352
140	343	.247	.164	.812	-.473
140	344	.265	.152	.838	-.399
140	345	-.320	.104	.044	-.904
140	346	-.248	.104	.086	-.753
140	347	-.268	.112	.070	-.817
140	348	-.250	.101	.038	-.620
140	349	-.307	.099	.040	-.687
140	350	-.231	.100	.117	-.583
140	351	-.277	.105	.093	-.678
140	352	-.248	.104	.118	-.691
140	353	-.309	.105	.016	-.724

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
140	354	-.231	.103	.105	-.676
140	355	-.109	.102	.238	-.425
140	356	.067	.106	.454	-.285
140	357	.150	.113	.529	-.213
140	358	.319	.124	.817	-.090
140	359	.366	.148	.962	-.088
140	360	.361	.146	.973	-.077
140	361	.312	.167	.852	-.319
140	362	.355	.162	.896	-.267
140	363	-.334	.121	.018	-1.108
140	364	-.297	.117	.035	-1.081
140	365	-.337	.105	-.018	-.691
140	366	-.260	.104	.102	-.624
140	367	-.298	.104	.032	-.728
140	368	-.260	.101	.043	-.648
140	369	-.321	.106	.072	-.867
140	370	-.251	.106	.141	-.793
140	371	-.312	.118	.080	-.944
140	372	-.274	.116	.118	-.931
140	373	-.173	.096	.172	-.538
140	374	.045	.101	.436	-.335
140	375	.127	.114	.565	-.305
140	376	.256	.123	.681	-.172
140	377	.365	.136	.996	-.077
140	378	.341	.149	.928	-.145
140	379	.283	.157	.883	-.214
140	380	.322	.145	.821	-.136
140	381	-.327	.129	.123	-1.513
140	382	-.337	.133	.090	-.909
140	383	-.414	.132	.024	-.968
140	384	-.334	.126	.080	-.900
140	385	-.284	.112	.110	-1.045
140	386	-.304	.127	.095	-.850
140	387	-.376	.132	.086	-1.022
140	388	-.300	.125	.144	-1.030
140	389	-.298	.123	.103	-.769
140	390	-.310	.135	.167	-1.037
140	391	-.227	.122	.225	-.656
140	392	.013	.115	.462	-.357
140	393	.163	.115	.643	-.227
140	394	.267	.133	.823	-.199
140	395	.288	.156	.892	-.245
140	396	.316	.157	.932	-.152
140	397	.285	.142	.855	-.198
140	398	.267	.150	.849	-.223
140	399	-.442	.154	-.017	-1.191
140	400	-.352	.138	.020	-.962
140	401	-.322	.131	.119	-.851
140	402	-.347	.144	.090	-1.110
140	403	-.432	.153	.032	-1.249
140	404	-.344	.145	.049	-1.204
140	405	-.308	.121	.101	-1.082
140	406	-.334	.131	.095	-1.093
140	407	-.443	.151	.046	-1.250
140	408	-.362	.148	.094	-1.152
140	409	-.172	.119	.191	-.732
140	410	-.020	.119	.379	-.503
140	411	.039	.132	.561	-.435
140	412	.201	.132	.777	-.257
140	413	.268	.133	.741	-.228
140	414	.208	.143	.847	-.328
140	415	.184	.156	.647	-.371
140	416	.229	.147	.652	-.276
140	417	-.336	.144	.175	-1.005
140	418	-.348	.147	.160	-1.087
140	419	-.423	.149	.074	-.996
140	420	-.375	.152	.136	-1.017
140	421	-.347	.145	.041	-.970
140	422	-.374	.170	.159	-1.379
140	423	-.107	.155	.399	-.977
140	424	-.392	.173	.187	-1.327
140	425	-.374	.154	.038	-1.147
140	426	-.426	.192	.057	-1.356
140	427	-.291	.132	.133	-.746
140	428	-.047	.110	.303	-.425
140	429	.105	.106	.425	-.266
140	430	.171	.118	.528	-.241
140	431	.181	.114	.597	-.227
140	432	.203	.135	.677	-.266
140	433	.218	.129	.648	-.177
140	434	.190	.136	.641	-.244
140	435	-.268	.187	.433	-1.014
140	436	-.221	.183	.433	-.907
140	437	-.133	.145	.291	-.648
140	438	-.237	.165	.279	-.988
140	439	-.416	.167	.059	-1.169
140	440	-.366	.161	.089	-1.145
140	441	-.288	.125	.184	-.706
140	442	-.289	.136	.237	-.800
140	443	-.385	.142	.148	-.936
140	444	-.302	.137	.187	-.840
140	445	-.234	.141	.445	-.782
140	446	.019	.114	.508	-.369
140	447	.033	.116	.508	-.447
140	448	.141	.113	.594	-.213
140	449	.195	.110	.603	-.233
140	450	.169	.120	.596	-.337
140	451	.140	.115	.623	-.269
140	452	.132	.114	.622	-.259
140	453	-.127	.171	.560	-.690
140	454	-.193	.155	.398	-.714
140	455	-.380	.157	.121	-1.111
140	456	.142	.120	.735	-.266
140	457	.112	.099	.411	-.241
140	801	.063	.088	.355	-.238
140	901	-.211	.094	.111	-.609
140	902	-.223	.120	.135	-.634
140	903	-.417	.119	-.036	-.823
140	904	-.158	.118	.234	-.546
140	905	-.009	.117	.343	-.481
140	906	-.111	.111	.296	-.488
140	907	-.211	.101	.109	-.595
140	908	-.594	.135	-.173	-1.094
140	909	-.230	.109	.171	-.632
140	910	-.274	.111	.096	-.661
140	911	-.252	.117	.140	-.663
140	912	-.336	.134	.043	-.843
140	913	-.234	.106	.079	-.645
140	914	-.282	.118	.066	-.772
140	915	-.155	.106	.150	-.527
140	916	-.218	.123	.119	-.647
140	917	-.157	.131	.160	-.707
140	918	.034	.102	.387	-.321
140	919	.022	.098	.344	-.338
140	919	.022	.098	.344	-.338
140	920	.029	.100	.408	-.308
140	921	.034	.092	.386	-.311
140	922	-.153	.122	.221	-.822
140	923	.024	.101	.373	-.332
140	924	.072	.100	.397	-.283
140	925	-.166	.126	.227	-.582
140	926	.131	.120	.576	-.251
140	927	-.198	.125	.198	-.678
140	928	.181	.117	.666	-.200
140	929	-.277	.114	.050	-.650
150	1	-.025	.102	.316	-.419
150	2	.008	.097	.326	-.322
150	3	-.120	.099	.161	-.473
150	4	-.099	.095	.196	-.457
150	5	-.120	.112	.281	-.471
150	6	-.017	.112	.396	-.334
150	7	-.138	.120	.290	-.485
150	8	-.019	.100	.353	-.362
150	9	-.066	.106	.463	-.468
150	10	-.084	.118	.398	-.531
150	11	-.145	.125	.361	-.615
150	12	-.081	.110	.410	-.444
150	13	.039	.119	.385	-.424
150	14	.053	.107	.389	-.367
150	15	.049	.103	.445	-.328

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	16	.019	.097	.392	-.285
150	101	.324	.163	.864	-.274
150	102	.310	.167	.846	-.298
150	103	.009	.165	.589	-.539
150	104	-.034	.152	.483	-.564
150	105	-.387	.145	.132	-.933
150	106	-.342	.172	.187	-.961
150	107	-.205	.116	.160	-.598
150	108	-.129	.105	.333	-.505
150	109	-.119	.103	.235	-.403
150	110	-.156	.094	.136	-.442
150	111	-.174	.097	.127	-.479
150	112	-.298	.109	.041	-.678
150	113	-.203	.104	.129	-.552
150	114	-.193	.094	.164	-.529
150	115	-.176	.097	.193	-.531
150	116	-.271	.102	.066	-.619
150	117	-.183	.097	.140	-.518
150	118	-.212	.098	.089	-.685
150	119	-.214	.102	.110	-.580
150	120	-.328	.111	.022	-.712
150	121	-.243	.110	.097	-.612
150	122	-.251	.101	.080	-.602
150	123	-.210	.098	.118	-.577
150	124	-.310	.106	.037	-.671
150	125	.448	.185	1.084	-.193
150	126	.432	.167	.975	-.236
150	127	.241	.156	.793	-.197
150	128	-.019	.169	.568	-.561
150	129	-.289	.189	.368	-.897
150	130	-.297	.187	.233	-.883
150	131	.015	.141	.390	-.659
150	132	-.023	.109	.468	-.419
150	133	-.083	.102	.249	-.453
150	134	-.152	.101	.162	-.480
150	135	-.183	.106	.171	-.532
150	136	-.213	.103	.222	-.563
150	137	-.218	.112	.144	-.587
150	138	-.220	.092	.077	-.529
150	139	-.201	.095	.108	-.518
150	141	-.226	.099	.096	-.587
150	142	-.244	.098	.085	-.616
150	143	-.239	.105	.086	-.678
150	144	-.355	.116	.001	-.778
150	145	-.266	.115	.098	-.687
150	146	-.289	.126	.082	-.731
150	147	-.272	.132	.141	-.939
150	148	-.399	.147	.046	-1.153
150	149	.390	.211	1.161	-.457
150	150	.344	.187	.855	-.329
150	151	.186	.163	.683	-.285
150	152	-.058	.171	.444	-.625
150	153	-.272	.181	.345	-.966
150	154	-.299	.176	.316	-.987
150	155	-.014	.155	.498	-.754
150	156	-.172	.105	.210	-.518
150	157	-.139	.099	.221	-.452
150	158	-.195	.103	.145	-.549
150	159	-.189	.108	.170	-.552
150	160	-.304	.115	.070	-.694
150	161	-.208	.108	.142	-.564
150	162	-.171	.089	.172	-.473
150	163	-.184	.094	.144	-.491
150	164	-.212	.096	.110	-.502
150	165	-.215	.100	.083	-.571
150	166	-.222	.102	.152	-.595
150	167	-.260	.125	.170	-.822
150	168	-.265	.124	.131	-.820
150	169	-.260	.121	.217	-.714
150	170	-.271	.113	.098	-.824
150	171	.291	.194	.963	-.476
150	172	.284	.173	.880	-.537
150	173	.130	.142	.656	-.361
150	174	-.005	.160	.452	-.521
150	175	-.290	.189	.261	-.929
150	176	-.292	.201	.310	-.978
150	177	-.050	.170	.407	-.808
150	178	-.022	.090	.266	-.337
150	179	-.079	.090	.216	-.389
150	180	-.137	.091	.144	-.437
150	181	-.164	.094	.114	-.463
150	182	-.166	.094	.146	-.469
150	183	-.179	.099	.140	-.507
150	184	-.187	.100	.142	-.539
150	185	-.177	.100	.169	-.512
150	186	-.170	.090	.077	-.523
150	187	-.185	.096	.091	-.561
150	188	-.211	.101	.096	-.620
150	189	-.221	.109	.107	-.661
150	190	-.237	.107	.139	-.606
150	191	-.282	.132	.139	-.779
150	192	-.286	.129	.116	-.730
150	193	-.273	.125	.130	-.682
150	194	-.286	.117	.068	-.759
150	195	.267	.193	.842	-.481
150	196	.256	.170	.800	-.464
150	197	.106	.144	.598	-.381
150	198	-.057	.132	.370	-.479
150	199	-.264	.159	.267	-.842
150	200	-.264	.167	.285	-.860
150	201	-.031	.121	.347	-.633
150	202	-.071	.090	.214	-.361
150	203	-.125	.095	.188	-.455
150	204	-.172	.097	.144	-.527
150	205	-.172	.103	.168	-.516
150	206	-.178	.096	.236	-.517
150	207	-.182	.101	.267	-.544
150	208	-.201	.121	.166	-.798
150	209	-.187	.103	.295	-.560
150	210	-.203	.093	.182	-.571
150	211	-.231	.105	.206	-.661
150	212	-.261	.115	.196	-.717
150	213	-.283	.131	.164	-.795
150	214	-.267	.133	.120	-.743
150	215	-.276	.139	.180	-.790
150	216	-.291	.142	.148	-.914
150	217	.195	.173	.757	-.467
150	218	.185	.151	.677	-.440
150	219	.070	.127	.528	-.368
150	220	-.059	.129	.353	-.508
150	221	-.221	.145	.202	-.774
150	222	-.213	.163	.255	-.870
150	223	-.035	.132	.390	-.581
150	224	-.041	.104	.360	-.461
150	225	-.063	.101	.340	-.433
150	226	-.090	.088	.188	-.396
150	227	-.128	.100	.190	-.514
150	228	-.149	.100	.195	-.565
150	229	-.146	.101	.168	-.615
150	230	-.146	.092	.225	-1.063
150	231	-.151	.100	.262	-.636
150	232	-.164	.096	.209	-.592
150	233	-.168	.094	.174	-.507
150	234	-.197	.094	.146	-.547
150	235	-.226	.111	.153	-.658
150	236	-.252	.118	.131	-.673
150	237	-.268	.134	.141	-.851
150	238	-.243	.124	.113	-.710
150	239	-.303	.127	.096	-.851
150	240	-.269	.126	.138	-.829
150	241	.154	.159	.561	-.456
150	242	.133	.144	.549	-.573
150	243	-.004	.126	.479	-.446
150	244	-.064	.120	.372	-.491
150	245	-.181	.160	.345	-.738
150	246	-.161	.147	.451	-.764
150	247	-.071	.118	.429	-.551
150	248	-.046	.092	.362	-.375
150	249	-.025	.084	.284	-.302
150	250	-.090	.094	.259	-.424

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	251	-.146	.097	.219	-.535
150	252	-.110	.094	.247	-.505
150	253	-.060	.091	.266	-.378
150	254	-.107	.098	.254	-.477
150	255	-.162	.116	.212	-.620
150	256	-.181	.105	.198	-.609
150	257	-.142	.105	.151	-.544
150	258	-.192	.116	.138	-.642
150	259	-.257	.119	.071	-.699
150	260	-.225	.137	.230	-.805
150	261	-.234	.131	.179	-.938
150	262	-.300	.142	.148	-.967
150	263	.072	.159	.593	-.749
150	264	.125	.136	.584	-.491
150	265	.078	.115	.546	-.337
150	266	.003	.124	.539	-.459
150	267	-.165	.158	.479	-.878
150	268	-.027	.135	.509	-.473
150	269	.049	.095	.342	-.308
150	270	.013	.094	.305	-.342
150	271	-.060	.094	.214	-.410
150	272	-.054	.089	.213	-.383
150	273	-.041	.090	.293	-.306
150	274	-.128	.107	.276	-.544
150	275	-.187	.110	.227	-.581
150	276	-.141	.104	.254	-.526
150	277	-.089	.102	.277	-.511
150	278	-.148	.115	.252	-.774
150	279	-.131	.105	.367	-.550
150	280	-.120	.096	.243	-.434
150	281	-.099	.091	.197	-.468
150	282	-.147	.097	.183	-.536
150	283	-.206	.100	.124	-.570
150	284	-.171	.095	.139	-.521
150	285	-.200	.122	.174	-.731
150	286	-.220	.128	.183	-.846
150	301	-.257	.103	.078	-.601
150	302	-.133	.101	.191	-.470
150	303	-.157	.106	.197	-.503
150	304	-.118	.104	.218	-.459
150	305	-.178	.104	.186	-.523
150	306	-.247	.114	.170	-.649
150	307	-.229	.116	.162	-.663
150	308	-.116	.161	.345	-.962
150	309	-.209	.213	.337	-.859
150	310	-.252	.129	.127	-.926
150	311	-.224	.126	.201	-.701
150	312	-.202	.134	.182	-.735
150	313	-.314	.149	.159	-.850
150	314	-.449	.151	.082	-1.024
150	315	-.481	.157	-.003	-.995
150	316	-.458	.175	.089	-1.097
150	317	-.388	.141	.059	-1.067
150	318	-.312	.139	.236	-.931
150	319	-.364	.137	.148	-.972
150	320	-.333	.128	.080	-.775
150	321	-.377	.133	.050	-.916
150	322	-.466	.161	.055	-.988
150	323	-.506	.160	.028	-1.033
150	324	-.472	.159	.143	-1.070
150	325	.058	.137	.522	-.389
150	326	.361	.153	.828	-.167
150	327	-.356	.157	.183	-1.152
150	328	-.306	.140	.408	-.942
150	329	-.373	.132	.031	-.876
150	330	-.310	.144	.079	-.912
150	331	-.389	.147	.039	-1.091
150	332	-.365	.150	.093	-1.052
150	333	-.425	.143	.005	-1.053
150	334	-.338	.139	.086	-.856
150	335	-.450	.156	.012	-1.056
150	336	-.452	.183	-.045	-1.312
150	337	-.162	.127	.258	-.632
150	338	.054	.126	.500	-.421
150	339	.133	.133	.577	-.395
150	340	.327	.137	.761	-.205
150	341	.368	.152	.894	-.118
150	342	.453	.155	1.020	-.048
150	343	.408	.164	.975	-.097
150	344	.429	.163	.991	-.079
150	345	-.422	.155	.098	-1.137
150	346	-.324	.145	.320	-.928
150	347	-.320	.122	.044	-.762
150	348	-.339	.137	.075	-.924
150	349	-.420	.137	-.017	-1.090
150	350	-.327	.135	.087	-.944
150	351	-.387	.143	-.001	-.988
150	352	-.350	.142	.034	-1.015
150	353	-.472	.172	.003	-1.371
150	354	-.411	.210	.097	-1.549
150	355	-.148	.127	.224	-.697
150	356	.107	.117	.483	-.317
150	357	.224	.140	.719	-.166
150	358	.394	.147	.902	-.026
150	359	.414	.161	.985	-.034
150	360	.464	.163	1.104	-.004
150	361	.427	.158	.946	-.117
150	362	.462	.155	.981	-.103
150	363	-.404	.177	.257	-1.385
150	364	-.351	.159	.376	-1.107
150	365	-.417	.144	.109	-1.148
150	366	-.347	.154	.148	-1.410
150	367	-.413	.152	.025	-1.126
150	368	-.362	.146	.112	-1.260
150	369	-.432	.150	.024	-1.253
150	370	-.349	.147	.095	-1.036
150	371	-.475	.188	.017	-1.493
150	372	-.490	.214	.042	-1.418
150	373	-.238	.133	.190	-.765
150	374	.089	.124	.531	-.422
150	375	.205	.139	.716	-.329
150	376	.353	.146	.937	-.148
150	377	.374	.140	.845	-.096
150	378	.402	.152	.959	-.122
150	379	.395	.151	.930	-.181
150	380	.388	.153	.923	-.122
150	381	-.351	.162	.359	-1.285
150	382	-.339	.163	.403	-1.146
150	383	-.327	.141	.286	-.826
150	384	-.360	.157	.210	-1.476
150	385	-.378	.140	.147	-1.053
150	386	-.342	.133	.027	-.847
150	387	-.367	.146	.096	-1.101
150	388	-.384	.149	.020	-1.052
150	389	-.425	.177	.056	-1.393
150	390	-.470	.233	.071	-1.687
150	391	-.174	.145	.237	-.939
150	392	.049	.133	.440	-.537
150	393	.172	.117	.665	-.192
150	394	.284	.131	.846	-.120
150	395	.335	.133	.924	-.083
150	396	.350	.138	.943	-.086
150	397	.351	.139	.756	-.134
150	398	.348	.149	.814	-.214
150	399	-.313	.166	.296	-1.195
150	400	-.320	.154	.289	-1.145
150	401	-.319	.135	.076	-.905
150	402	-.341	.154	.123	-1.218
150	403	-.349	.150	.167	-1.183
150	404	-.368	.154	.132	-1.498
150	405	-.395	.149	.100	-1.393
150	406	-.398	.160	.031	-1.345
150	407	-.431	.186	.153	-1.448
150	408	-.558	.233	.015	-1.639
150	409	-.229	.126	.123	-.755
150	410	-.001	.115	.377	-.414
150	411	.138	.120	.549	-.294
150	412	.224	.124	.726	-.207
150	413	.297	.124	.768	-.132
150	414	.270	.134	.742	-.113

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
150	415	.316	.134	.827	-.096
150	416	.302	.138	.812	-.130
150	417	-.305	.155	.288	-.982
150	418	-.294	.169	.341	-.995
150	419	-.284	.155	.655	-.916
150	420	-.334	.168	.164	-1.132
150	421	-.353	.165	.161	-1.260
150	422	-.397	.194	.121	-1.524
150	423	-.050	.168	.377	-.790
150	424	-.422	.201	.092	-1.397
150	425	-.432	.186	.029	-1.293
150	426	-.559	.231	-.025	-1.533
150	427	-.217	.134	.178	-.801
150	428	-.024	.114	.338	-.508
150	429	.115	.110	.522	-.276
150	430	.199	.122	.609	-.197
150	431	.194	.118	.562	-.159
150	432	.250	.132	.732	-.183
150	433	.240	.130	.761	-.311
150	434	.230	.138	.838	-.441
150	435	-.062	.130	.536	-.602
150	436	-.095	.164	.550	-.824
150	437	-.065	.116	.318	-.575
150	438	-.129	.141	.336	-.907
150	439	-.214	.146	.274	-.864
150	440	-.295	.153	.132	-.867
150	441	-.235	.140	.178	-.839
150	442	-.200	.139	.202	-.840
150	443	-.193	.137	.211	-.786
150	444	-.203	.138	.201	-.815
150	445	-.198	.133	.166	-.760
150	446	.049	.107	.417	-.304
150	447	.140	.104	.448	-.157
150	448	.177	.107	.523	-.125
150	449	.219	.109	.720	-.168
150	450	.223	.117	.790	-.178
150	451	.165	.118	.525	-.163
150	452	.153	.118	.514	-.159
150	453	.013	.127	.439	-.509
150	454	-.053	.135	.458	-.590
150	455	-.311	.175	.219	-1.120
150	456	.178	.120	.706	-.171
150	457	.131	.110	.531	-.303
150	801	.069	.083	.371	-.202
150	901	-.168	.091	.133	-.479
150	902	-.139	.100	.254	-.567
150	903	-.346	.136	.280	-.802
150	904	-.055	.101	.291	-.492
150	905	-.059	.141	.356	-.552
150	906	-.165	.107	.307	-.510
150	907	-.201	.107	.141	-.649
150	908	-.653	.148	-.150	-1.151
150	909	-.260	.108	.155	-.698
150	910	-.358	.115	.040	-.818
150	911	-.207	.133	.281	-.717
150	912	-.460	.143	.057	-.923
150	913	-.255	.124	.220	-.712
150	914	-.391	.145	.082	-1.031
150	915	-.143	.100	.298	-.540
150	916	-.150	.102	.191	-.754
150	917	-.070	.096	.229	-.417
150	918	.030	.095	.428	-.291
150	919	.006	.099	.385	-.333
150	919	.006	.099	.385	-.333
150	920	.012	.092	.401	-.306
150	921	.007	.092	.308	-.386
150	922	-.126	.108	.239	-.829
150	923	-.023	.101	.326	-.317
150	924	.022	.100	.390	-.266
150	925	-.184	.120	.223	-.683
150	926	.075	.116	.600	-.295
150	927	-.187	.117	.215	-.693
150	928	.152	.120	.686	-.244
150	929	-.241	.134	.186	-.718
160	1	-.105	.105	.286	-.542
160	2	-.061	.102	.300	-.403
160	3	-.152	.106	.206	-.631
160	4	-.114	.092	.231	-.454
160	5	-.113	.108	.252	-.486
160	6	-.015	.107	.354	-.368
160	7	-.117	.120	.294	-.482
160	8	-.024	.100	.297	-.363
160	9	-.072	.102	.328	-.396
160	10	-.051	.109	.313	-.427
160	11	-.159	.117	.264	-.555
160	12	-.063	.104	.273	-.396
160	13	-.061	.128	.361	-.521
160	14	-.002	.110	.357	-.358
160	15	-.027	.108	.384	-.445
160	16	-.049	.100	.283	-.447
160	101	.238	.160	.764	-.369
160	102	.209	.154	.708	-.315
160	103	-.165	.152	.312	-.672
160	104	-.226	.141	.232	-.631
160	105	-.674	.165	-.223	-1.378
160	106	-.624	.175	.002	-1.369
160	107	-.320	.125	.146	-1.130
160	108	-.163	.094	.173	-.596
160	109	-.161	.094	.209	-.599
160	110	-.190	.101	.118	-.521
160	111	-.179	.103	.144	-.523
160	112	-.302	.116	.055	-.711
160	113	-.194	.109	.157	-.588
160	114	-.194	.095	.127	-.477
160	115	-.167	.097	.148	-.462
160	116	-.284	.105	.050	-.603
160	117	-.187	.098	.133	-.477
160	118	-.231	.099	.083	-.549
160	119	-.206	.100	.123	-.525
160	120	-.333	.110	.035	-.685
160	121	-.227	.107	.129	-.596
160	122	-.244	.100	.108	-.639
160	123	-.204	.103	.171	-.573
160	124	-.323	.112	.085	-.692
160	125	.169	.261	1.009	-.766
160	126	.166	.230	.755	-.892
160	127	-.018	.147	.444	-.523
160	128	-.355	.164	.191	-.888
160	129	-.603	.180	-.012	-1.318
160	130	-.607	.176	.044	-1.182
160	131	-.287	.208	.263	-1.274
160	132	-.146	.107	.230	-.542
160	133	-.146	.107	.217	-.787
160	134	-.198	.094	.157	-.523
160	135	-.191	.096	.191	-.513
160	136	-.204	.097	.144	-.601
160	137	-.211	.099	.141	-.548
160	138	-.219	.096	.091	-.524
160	139	-.188	.098	.118	-.508
160	141	-.212	.101	.099	-.541
160	142	-.241	.100	.079	-.640
160	143	-.227	.108	.104	-.663
160	144	-.367	.123	.015	-.873
160	145	-.264	.121	.103	-.884
160	146	-.291	.127	.127	-.904
160	147	-.266	.134	.208	-.750
160	148	-.404	.147	.102	-1.045
160	149	.003	.289	.793	-1.144
160	150	.045	.282	.760	-1.000
160	151	-.048	.146	.477	-.519
160	152	-.381	.149	.182	-.955
160	153	-.612	.163	-.132	-1.371
160	154	-.591	.175	-.044	-1.332
160	155	-.300	.202	.243	-1.023
160	156	-.262	.115	.120	-.652
160	157	-.174	.108	.171	-.536
160	158	-.206	.097	.136	-.619
160	159	-.183	.102	.177	-.614
160	160	-.315	.111	.091	-.774
160	161	-.200	.102	.140	-.607

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	162	-.189	.091	.127	-.532
160	163	-.192	.094	.156	-.513
160	164	-.230	.100	.096	-.538
160	165	-.223	.107	.155	-.586
160	166	-.229	.110	.112	-.656
160	167	-.248	.128	.111	-.747
160	168	-.259	.127	.114	-.781
160	169	-.251	.125	.188	-.773
160	170	-.243	.107	.141	-.604
160	171	-.076	.271	.724	-1.141
160	172	-.054	.281	.678	-1.147
160	173	-.087	.136	.478	-1.025
160	174	-.247	.127	.192	-.640
160	175	-.560	.164	.040	-1.217
160	176	-.575	.173	.066	-1.287
160	177	-.326	.194	.255	-1.077
160	178	-.150	.102	.218	-.498
160	179	-.143	.096	.198	-.455
160	180	-.171	.098	.180	-.483
160	181	-.176	.101	.171	-.510
160	182	-.174	.091	.099	-.480
160	183	-.180	.095	.134	-.485
160	184	-.187	.095	.116	-.482
160	185	-.176	.095	.136	-.482
160	186	-.181	.086	.138	-.454
160	187	-.187	.090	.129	-.477
160	188	-.213	.098	.141	-.612
160	189	-.213	.108	.175	-.772
160	190	-.232	.111	.094	-.634
160	191	-.257	.134	.122	-.778
160	192	-.267	.131	.112	-.694
160	193	-.260	.131	.188	-.708
160	194	-.269	.124	.226	-.835
160	195	-.101	.264	.701	-1.148
160	196	-.053	.270	.616	-1.214
160	197	-.127	.133	.412	-.833
160	198	-.297	.142	.231	-.775
160	199	-.498	.177	.089	-1.190
160	200	-.505	.182	.084	-1.249
160	201	-.234	.168	.287	-.969
160	202	-.130	.085	.154	-.463
160	203	-.146	.090	.155	-.490
160	204	-.175	.093	.095	-.529
160	205	-.167	.098	.117	-.524
160	206	-.171	.096	.149	-.613
160	207	-.169	.100	.167	-.645
160	208	-.179	.102	.120	-.515
160	209	-.167	.101	.163	-.518
160	210	-.185	.091	.110	-.502
160	211	-.192	.105	.155	-.559
160	212	-.211	.114	.176	-.600
160	213	-.211	.125	.195	-.706
160	214	-.222	.119	.117	-.718
160	215	-.228	.127	.167	-.746
160	216	-.221	.128	.143	-.731
160	217	-.100	.233	.604	-.856
160	218	-.043	.229	.629	-.884
160	219	-.091	.122	.346	-.525
160	220	-.251	.125	.241	-.677
160	221	-.444	.157	.119	-1.148
160	222	-.420	.161	.021	-1.175
160	223	-.201	.158	.222	-.897
160	224	-.124	.108	.189	-.557
160	225	-.110	.100	.192	-.578
160	226	-.123	.095	.158	-.460
160	227	-.139	.106	.184	-.505
160	228	-.154	.108	.171	-.535
160	229	-.149	.108	.174	-.541
160	230	-.152	.093	.167	-.589
160	231	-.150	.101	.212	-.523
160	232	-.159	.093	.182	-.464
160	233	-.157	.091	.173	-.447
160	234	-.176	.100	.154	-.535
160	235	-.180	.113	.155	-.561
160	236	-.195	.116	.132	-.629
160	237	-.193	.121	.140	-.726
160	238	-.191	.116	.198	-.667
160	239	-.266	.126	.144	-.843
160	240	-.224	.122	.176	-.784
160	241	-.041	.225	.555	-.710
160	242	-.035	.220	.528	-.814
160	243	-.128	.135	.320	-.611
160	244	-.184	.123	.260	-.590
160	245	-.359	.145	.102	-.911
160	246	-.353	.146	.179	-.941
160	247	-.267	.143	.182	-.822
160	248	-.103	.093	.221	-.483
160	249	-.044	.093	.255	-.365
160	250	-.099	.105	.240	-.496
160	251	-.157	.109	.196	-.654
160	252	-.115	.106	.241	-.624
160	253	-.061	.098	.340	-.506
160	254	-.108	.104	.309	-.598
160	255	-.147	.097	.150	-.535
160	256	-.208	.110	.170	-.699
160	257	-.152	.095	.184	-.542
160	258	-.205	.107	.151	-.666
160	259	-.278	.111	.088	-.802
160	260	-.174	.113	.184	-.611
160	261	-.194	.115	.149	-.713
160	262	-.253	.123	.096	-.824
160	263	-.115	.205	.511	-.882
160	264	-.009	.168	.480	-.762
160	265	-.024	.111	.382	-.538
160	266	-.108	.118	.313	-.621
160	267	-.306	.166	.120	-1.077
160	268	-.171	.137	.257	-.740
160	269	-.050	.103	.243	-.424
160	270	-.060	.101	.258	-.406
160	271	-.109	.101	.200	-.447
160	272	-.077	.094	.227	-.411
160	273	-.045	.086	.236	-.385
160	274	-.125	.103	.204	-.560
160	275	-.184	.105	.166	-.636
160	276	-.131	.098	.184	-.524
160	277	-.072	.094	.216	-.460
160	278	-.126	.102	.243	-.530
160	279	-.132	.103	.223	-.522
160	280	-.116	.096	.241	-.478
160	281	-.101	.100	.290	-.458
160	282	-.158	.109	.249	-.608
160	283	-.226	.114	.160	-.691
160	284	-.191	.108	.146	-.614
160	285	-.187	.113	.168	-.583
160	286	-.228	.115	.154	-.878
160	301	-.120	.084	.205	-.392
160	302	-.103	.093	.268	-.406
160	303	-.097	.098	.294	-.437
160	304	-.049	.097	.385	-.383
160	305	.023	.091	.344	-.287
160	306	-.118	.119	.307	-.509
160	307	-.103	.117	.343	-.504
160	308	.063	.126	.483	-.393
160	309	.191	.148	.763	-.426
160	310	-.178	.113	.205	-.670
160	311	-.111	.106	.264	-.520
160	312	-.045	.117	.378	-.564
160	313	-.021	.117	.334	-.556
160	314	-.252	.173	.438	-.856
160	315	-.255	.172	.355	-.893
160	316	-.177	.197	.403	-.947
160	317	-.185	.112	.158	-.617
160	318	-.318	.131	.087	-.783
160	319	-.324	.129	.200	-.801
160	320	-.208	.127	.180	-.810
160	321	-.264	.157	.326	-.854
160	322	-.440	.178	.088	-1.095
160	323	-.454	.174	.109	-1.085
160	324	-.367	.181	.246	-1.000
160	325	.231	.129	.655	-.132

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	326	.396	.151	.919	-.027
160	327	-.107	.147	.416	-.734
160	328	-.032	.176	.488	-.781
160	329	-.115	.125	.276	-.796
160	330	-.191	.131	.199	-1.304
160	331	-.327	.133	.106	-.901
160	332	-.410	.145	.062	-1.003
160	333	-.426	.150	.026	-.979
160	334	-.503	.175	.043	-1.104
160	335	-.406	.170	.075	-1.239
160	336	-.665	.271	.116	-1.682
160	337	-.037	.134	.421	-.611
160	338	.103	.135	.569	-.422
160	339	.211	.138	.668	-.251
160	340	.379	.145	.902	-.088
160	341	.424	.149	.952	-.038
160	342	.426	.162	.972	-.050
160	343	.410	.168	.979	-.089
160	344	.409	.167	.981	-.067
160	345	-.213	.158	.371	-.921
160	346	-.251	.162	.512	-.888
160	347	-.273	.145	.276	-.864
160	348	-.309	.153	.327	-.885
160	349	-.298	.119	.115	-.881
160	350	-.355	.120	-.011	-.845
160	351	-.388	.123	-.014	-.959
160	352	-.365	.125	.086	-1.074
160	353	-.350	.211	.082	-1.290
160	354	-.597	.243	.162	-1.598
160	355	-.125	.147	.456	-.648
160	356	.155	.124	.683	-.278
160	357	.329	.135	.792	-.104
160	358	.399	.152	.890	-.080
160	359	.410	.159	.924	-.084
160	360	.432	.158	.926	-.080
160	361	.452	.148	1.022	.005
160	362	.386	.166	1.063	-.107
160	363	-.263	.196	.477	-1.321
160	364	-.239	.181	.375	-.934
160	365	-.177	.160	.437	-.656
160	366	-.272	.190	.307	-1.097
160	367	-.330	.168	.260	-.971
160	368	-.334	.146	.227	-1.067
160	369	-.317	.131	.192	-.977
160	370	-.375	.145	.227	-1.138
160	371	-.418	.226	.066	-1.415
160	372	-.602	.248	.114	-1.525
160	373	-.119	.133	.301	-.666
160	374	.112	.123	.508	-.292
160	375	.243	.132	.625	-.170

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	376	.343	.140	.786	-.102
160	377	.436	.146	.908	-.011
160	378	.437	.159	.943	-.065
160	379	.433	.158	.954	-.050
160	380	.389	.168	.953	-.182
160	381	-.239	.177	.405	-1.055
160	382	-.263	.178	.491	-.936
160	383	-.257	.146	.302	-.806
160	384	-.333	.167	.260	-1.013
160	385	-.329	.151	.137	-.988
160	386	-.323	.148	.195	-.951
160	387	-.362	.150	.139	-1.120
160	388	-.399	.154	.097	-1.072
160	389	-.392	.194	.098	-1.383
160	390	-.678	.248	-.006	-1.535
160	391	-.169	.147	.267	-.897
160	392	.106	.130	.490	-.469
160	393	.279	.140	.759	-.145
160	394	.359	.160	.881	-.156
160	395	.398	.160	.889	-.092
160	396	.397	.163	.896	-.107
160	397	.381	.154	.816	-.095
160	398	.326	.176	.851	-.341
160	399	-.170	.174	.490	-1.015
160	400	-.195	.168	.524	-.885
160	401	-.166	.158	.549	-.746
160	402	-.256	.201	.274	-1.408
160	403	-.276	.174	.264	-.989
160	404	-.342	.167	.181	-1.155
160	405	-.365	.147	.043	-1.018
160	406	-.402	.161	.055	-1.126
160	407	-.358	.198	.207	-1.368
160	408	-.654	.265	.088	-1.601
160	409	-.181	.138	.342	-.658
160	410	.073	.129	.557	-.377
160	411	.231	.133	.713	-.239
160	412	.303	.139	.842	-.182
160	413	.326	.133	.799	-.096
160	414	.286	.139	.885	-.111
160	415	.318	.145	.856	-.158
160	416	.270	.156	.851	-.220
160	417	-.104	.151	.491	-.694
160	418	-.100	.183	.606	-.870
160	419	-.099	.162	.522	-.687
160	420	-.157	.159	.286	-.922
160	421	-.215	.149	.214	-.862
160	422	-.340	.167	.155	-1.109
160	423	-.000	.132	.392	-.617
160	424	-.372	.160	.112	-1.126
160	425	-.279	.160	.177	-1.059

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	426	-.518	.231	.113	-1.380
160	427	-.123	.141	.455	-.720
160	428	.053	.121	.601	-.427
160	429	.185	.120	.679	-.156
160	430	.225	.136	.830	-.175
160	431	.209	.111	.691	-.111
160	432	.258	.140	.841	-.142
160	433	.265	.128	.747	-.170
160	434	.212	.144	.794	-.276
160	435	-.007	.121	.473	-.488
160	436	.009	.112	.415	-.353
160	437	-.005	.096	.281	-.334
160	438	-.074	.119	.275	-.527
160	439	-.099	.130	.247	-.580
160	440	-.185	.144	.227	-.844
160	441	-.140	.113	.148	-.507
160	442	-.148	.114	.166	-.544
160	443	-.128	.112	.182	-.518
160	444	-.155	.115	.171	-.559
160	445	-.113	.119	.375	-.694
160	446	.070	.104	.753	-.302
160	447	.183	.101	.669	-.164
160	448	.203	.107	.678	-.163
160	449	.229	.114	.594	-.116
160	450	.205	.124	.630	-.187
160	451	.173	.104	.517	-.191
160	452	.136	.107	.514	-.241
160	453	.021	.105	.403	-.375
160	454	.004	.115	.451	-.479
160	455	-.194	.160	.347	-.847
160	456	.194	.113	.633	-.154
160	457	.122	.100	.524	-.198
160	801	.037	.088	.354	-.267
160	901	-.164	.082	.115	-.437
160	902	-.147	.092	.189	-.531
160	903	-.165	.129	.202	-.719
160	904	-.084	.104	.282	-.572
160	905	-.221	.120	.202	-.647
160	906	-.243	.105	.084	-.762
160	907	-.367	.167	.073	-1.074
160	908	-.625	.179	.114	-1.245
160	909	-.278	.107	.043	-.696
160	910	-.390	.112	-.050	-.810
160	911	-.074	.104	.253	-.422
160	912	-.390	.146	.154	-.931
160	913	-.123	.138	.275	-.660
160	914	-.431	.164	.114	-1.029
160	915	-.126	.092	.179	-.456
160	916	-.150	.101	.226	-.668
160	917	-.050	.091	.299	-.381

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
160	918	-.005	.101	.394	-.383
160	919	-.052	.096	.272	-.337
160	919	-.052	.096	.272	-.337
160	920	-.038	.100	.361	-.384
160	921	-.070	.098	.282	-.415
160	922	-.132	.109	.196	-.782
160	923	-.095	.102	.314	-.452
160	924	-.048	.099	.360	-.431
160	925	-.168	.101	.172	-.565
160	926	-.050	.123	.458	-.443
160	927	-.224	.126	.241	-.882
160	928	-.042	.145	.608	-.597
160	929	-.067	.127	.360	-.637
170	1	-.196	.107	.163	-.551
170	2	-.139	.101	.183	-.455
170	3	-.135	.097	.187	-.487
170	4	-.154	.100	.234	-.716
170	5	-.105	.109	.337	-.519
170	6	-.045	.110	.364	-.403
170	7	-.086	.112	.288	-.459
170	8	-.064	.103	.338	-.491
170	9	-.084	.102	.270	-.448
170	10	-.063	.108	.297	-.393
170	11	-.157	.117	.218	-.547
170	12	-.068	.104	.262	-.393
170	13	-.235	.127	.234	-.728
170	14	-.134	.117	.235	-.582
170	15	-.131	.111	.337	-.589
170	16	-.139	.102	.258	-.607
170	101	-.048	.239	.603	-.990
170	102	.003	.149	.573	-.867
170	103	-.329	.134	.183	-.819
170	104	-.485	.138	-.005	-1.036
170	105	-.896	.216	-.310	-1.719
170	106	-.831	.204	-.212	-1.616
170	107	-.447	.154	.079	-1.099
170	108	-.274	.125	.124	-.816
170	109	-.224	.105	.140	-.621
170	110	-.227	.106	.129	-.643
170	111	-.227	.107	.138	-.629
170	112	-.270	.110	.105	-.672
170	113	-.228	.109	.133	-.633
170	114	-.230	.102	.088	-.670
170	115	-.224	.105	.130	-.735
170	116	-.269	.108	.081	-.711
170	117	-.238	.108	.098	-.694
170	118	-.248	.102	.065	-.718
170	119	-.242	.105	.105	-.663
170	120	-.291	.109	.080	-.730
170	121	-.254	.112	.146	-.694
170	122	-.259	.099	.087	-.618
170	123	-.251	.101	.079	-.626
170	124	-.293	.103	.049	-.665
170	125	-.525	.323	.581	-1.623
170	126	-.480	.318	.484	-1.571
170	127	-.283	.128	.129	-1.020
170	128	-.533	.124	-.091	-1.070
170	129	-.775	.175	-.137	-1.587
170	130	-.773	.164	-.216	-1.424
170	131	-.642	.180	-.083	-1.268
170	132	-.416	.155	.024	-1.117
170	133	-.266	.128	.170	-.774
170	134	-.251	.117	.052	-.680
170	135	-.252	.118	.108	-.665
170	136	-.281	.116	.075	-.727
170	137	-.255	.123	.093	-.740
170	138	-.253	.103	.086	-.760
170	139	-.246	.104	.070	-.681
170	141	-.243	.099	.056	-.695
170	142	-.255	.101	.078	-.591
170	143	-.261	.107	.085	-.631
170	144	-.318	.113	.052	-.730
170	145	-.284	.117	.086	-.778
170	146	-.297	.104	.006	-.675
170	147	-.268	.108	.078	-.676
170	148	-.314	.111	.032	-.725
170	149	-.686	.283	.307	-1.961
170	150	-.678	.298	.432	-1.888
170	151	-.355	.194	.225	-1.364
170	152	-.570	.148	-.006	-1.220
170	153	-.794	.186	-.215	-1.545
170	154	-.740	.173	-.152	-1.583
170	155	-.614	.185	-.010	-1.426
170	156	-.338	.141	.127	-.983
170	157	-.263	.129	.155	-.770
170	158	-.253	.110	.115	-.743
170	159	-.250	.115	.113	-.696
170	160	-.295	.114	.075	-.833
170	161	-.243	.107	.107	-.719
170	162	-.239	.098	.065	-.524
170	163	-.234	.098	.078	-.548
170	164	-.258	.105	.050	-.649
170	165	-.249	.113	.098	-.706
170	166	-.258	.108	.047	-.688
170	167	-.265	.122	.082	-.797
170	168	-.279	.127	.108	-.851
170	169	-.290	.147	.117	-1.185
170	170	-.280	.120	.112	-1.195
170	171	-.659	.301	.753	-1.690
170	172	-.669	.331	.658	-1.750
170	173	-.357	.194	.287	-1.415
170	174	-.493	.129	.099	-1.026
170	175	-.761	.193	.120	-1.694
170	176	-.757	.198	.088	-1.677
170	177	-.597	.193	.040	-1.346
170	178	-.356	.143	.088	-.951
170	179	-.263	.127	.191	-.809
170	180	-.252	.120	.199	-.864
170	181	-.241	.122	.199	-.836
170	182	-.250	.102	.056	-.717
170	183	-.244	.107	.085	-.765
170	184	-.247	.101	.072	-.717
170	185	-.231	.099	.085	-.656
170	186	-.225	.101	.081	-.563
170	187	-.223	.104	.065	-.530
170	188	-.238	.109	.072	-.624
170	189	-.229	.114	.110	-.702
170	190	-.238	.102	.207	-.668
170	191	-.244	.114	.210	-.836
170	192	-.255	.115	.202	-.812
170	193	-.254	.126	.163	-1.017
170	194	-.266	.121	.141	-.845
170	195	-.672	.270	.296	-1.566
170	196	-.664	.316	.386	-1.618
170	197	-.405	.179	.185	-1.636
170	198	-.545	.135	-.060	-1.097
170	199	-.704	.182	-.055	-1.358
170	200	-.697	.186	-.049	-1.353
170	201	-.495	.168	-.025	-1.156
170	202	-.252	.108	.125	-.762
170	203	-.232	.110	.143	-.703
170	204	-.247	.112	.118	-.732
170	205	-.238	.118	.132	-.719
170	206	-.257	.109	.113	-.761
170	207	-.245	.112	.122	-.896
170	208	-.246	.100	.084	-.764
170	209	-.232	.105	.143	-.876
170	210	-.226	.093	.059	-.531
170	211	-.219	.102	.100	-.582
170	212	-.233	.108	.085	-.634
170	213	-.230	.113	.100	-.702
170	214	-.233	.105	.121	-.779
170	215	-.230	.120	.192	-.735
170	216	-.239	.109	.143	-.750
170	217	-.576	.270	.312	-1.680
170	218	-.580	.294	.256	-1.742
170	219	-.347	.190	.061	-1.387
170	220	-.447	.149	.200	-1.339
170	221	-.580	.177	.177	-1.292
170	222	-.591	.176	-.123	-1.693

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	223	-.419	.163	.015	-1.148
170	224	-.281	.132	.146	-.791
170	225	-.216	.120	.145	-.794
170	226	-.213	.104	.181	-.659
170	227	-.211	.118	.323	-.665
170	228	-.227	.120	.186	-.787
170	229	-.216	.121	.160	-.840
170	230	-.215	.114	.108	-.726
170	231	-.200	.119	.159	-.714
170	232	-.201	.107	.129	-.560
170	233	-.197	.103	.143	-.575
170	234	-.224	.104	.157	-.617
170	235	-.214	.116	.214	-.761
170	236	-.225	.118	.207	-.731
170	237	-.227	.123	.211	-.846
170	238	-.256	.126	.165	-.871
170	239	-.246	.127	.211	-.895
170	240	-.255	.127	.188	-.775
170	241	-.528	.216	.273	-1.521
170	242	-.499	.269	.327	-1.733
170	243	-.313	.173	.166	-1.305
170	244	-.369	.136	.021	-1.078
170	245	-.453	.149	.042	-1.141
170	246	-.423	.168	.020	-1.237
170	247	-.330	.145	.054	-.946
170	248	-.205	.127	.188	-.911
170	249	-.172	.097	.185	-.847
170	250	-.186	.111	.177	-.821
170	251	-.183	.109	.166	-.716
170	252	-.189	.110	.153	-.736
170	253	-.175	.104	.190	-.610
170	254	-.181	.110	.186	-.575
170	255	-.180	.098	.134	-.505
170	256	-.278	.115	.100	-.727
170	257	-.276	.115	.085	-.846
170	258	-.295	.134	.123	-.924
170	259	-.301	.131	.097	-.840
170	260	-.265	.135	.163	-.810
170	261	-.298	.127	.133	-.937
170	262	-.314	.137	.136	-1.096
170	263	-.424	.239	.418	-1.511
170	264	-.320	.222	.306	-1.253
170	265	-.228	.115	.218	-.745
170	266	-.263	.119	.228	-.778
170	267	-.371	.153	.116	-1.194
170	268	-.286	.134	.119	-.834
170	269	-.210	.104	.089	-.671
170	270	-.167	.105	.173	-.508
170	271	-.132	.099	.198	-.481
170	272	-.138	.097	.176	-.450
170	273	-.143	.090	.182	-.584
170	274	-.196	.115	.129	-.803
170	275	-.171	.100	.122	-.586
170	276	-.168	.096	.114	-.555
170	277	-.159	.101	.202	-.590
170	278	-.163	.106	.223	-.574
170	279	-.115	.102	.256	-.494
170	280	-.153	.104	.197	-.530
170	281	-.203	.101	.154	-.763
170	282	-.239	.110	.158	-.831
170	283	-.233	.110	.147	-.797
170	284	-.265	.114	.109	-.807
170	285	-.267	.132	.148	-.976
170	286	-.339	.147	.027	-1.089
170	301	-.145	.084	.170	-.430
170	302	-.085	.097	.289	-.413
170	303	-.040	.102	.351	-.364
170	304	.012	.102	.394	-.312
170	305	.075	.107	.395	-.273
170	306	.018	.131	.439	-.612
170	307	.037	.141	.608	-.478
170	308	.195	.150	.849	-.352
170	309	.301	.148	.839	-.257
170	310	-.064	.111	.355	-.445
170	311	-.009	.108	.350	-.396
170	312	.079	.105	.397	-.386
170	313	.087	.110	.556	-.365
170	314	-.023	.166	.523	-.647
170	315	-.005	.183	.693	-.667
170	316	.129	.191	.814	-.688
170	317	-.062	.126	.310	-.469
170	318	-.190	.155	.265	-.710
170	319	-.183	.162	.375	-.625
170	320	-.038	.109	.395	-.392
170	321	-.054	.126	.305	-.514
170	322	-.186	.181	.353	-.826
170	323	-.191	.179	.461	-.758
170	324	-.068	.184	.641	-.900
170	325	.334	.140	.843	-.098
170	326	.426	.162	1.004	-.015
170	327	-.014	.126	.409	-.453
170	328	.123	.147	.599	-.391
170	329	.038	.113	.431	-.435
170	330	-.020	.120	.345	-.466
170	331	-.123	.133	.249	-.688
170	332	-.215	.160	.258	-.852
170	333	-.368	.182	.178	-.999
170	334	-.444	.227	.080	-1.500
170	335	-.215	.151	.224	-.850
170	336	-.277	.249	.355	-1.332
170	337	.170	.152	.739	-.395
170	338	.258	.159	.848	-.326
170	339	.337	.162	.943	-.256
170	340	.433	.164	1.135	-.106
170	341	.462	.145	.913	.051
170	342	.448	.156	.933	-.019
170	343	.427	.162	.930	-.143
170	344	.342	.170	.900	-.289
170	345	-.069	.144	.383	-.652
170	346	-.067	.178	.600	-.653
170	347	-.094	.154	.353	-.584
170	348	-.138	.182	.364	-.871
170	349	-.156	.163	.302	-.720
170	350	-.276	.149	.211	-.749
170	351	-.313	.137	.091	-.773
170	352	-.284	.137	.100	-.761
170	353	-.152	.163	.260	-.870
170	354	-.325	.263	.369	-1.244
170	355	.092	.160	.608	-.402
170	356	.302	.146	.812	-.148
170	357	.419	.141	.916	-.031
170	358	.435	.157	.984	-.091
170	359	.418	.161	1.029	-.118
170	360	.430	.161	1.074	-.103
170	361	.397	.142	.910	-.095
170	362	.222	.162	.820	-.346
170	363	-.088	.175	.636	-.960
170	364	-.037	.195	.828	-.737
170	365	-.008	.156	.443	-.545
170	366	-.084	.183	.369	-.873
170	367	-.177	.181	.337	-.838
170	368	-.267	.162	.234	-.919
170	369	-.268	.125	.140	-.758
170	370	-.302	.134	.114	-.868
170	371	-.168	.154	.261	-1.209
170	372	-.243	.246	.359	-1.201
170	373	.113	.144	.668	-.386
170	374	.281	.137	.756	-.156
170	375	.372	.145	.913	-.070
170	376	.405	.147	.959	-.033
170	377	.412	.147	.981	-.023
170	378	.396	.164	1.086	-.104
170	379	.376	.156	.980	-.152
170	380	.226	.161	.778	-.337
170	381	-.036	.160	.524	-.586
170	382	-.054	.203	.639	-.758
170	383	-.072	.175	.519	-.664
170	384	-.154	.198	.365	-1.115
170	385	-.156	.169	.304	-.821
170	386	-.210	.152	.312	-.862

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
170	387	-.288	.155	.209	-.957
170	388	-.319	.158	.101	-1.084
170	389	-.155	.139	.311	-.838
170	390	-.332	.262	.517	-1.421
170	391	.061	.158	.672	-.541
170	392	.232	.148	.786	-.293
170	393	.352	.147	.889	-.109
170	394	.369	.169	.976	-.124
170	395	.380	.165	1.001	-.113
170	396	.371	.172	1.042	-.136
170	397	.350	.139	.804	-.068
170	398	.169	.167	.728	-.383
170	399	-.035	.147	.473	-.626
170	400	-.024	.169	.586	-.600
170	401	-.012	.142	.538	-.501
170	402	-.095	.174	.375	-.933
170	403	-.126	.169	.365	-.857
170	404	-.242	.167	.357	-.936
170	405	-.239	.138	.200	-.796
170	406	-.285	.151	.150	-.984
170	407	-.144	.136	.290	-.847
170	408	-.281	.220	.343	-1.531
170	409	.050	.142	.642	-.426
170	410	.181	.142	.883	-.216
170	411	.282	.142	.960	-.133
170	412	.288	.146	.878	-.162
170	413	.301	.141	.805	-.130
170	414	.237	.139	.884	-.196
170	415	.272	.153	.784	-.204
170	416	.135	.167	.695	-.406
170	417	-.023	.120	.613	-.433
170	418	-.005	.149	.673	-.522
170	419	-.009	.133	.485	-.437
170	420	-.045	.134	.351	-.560
170	421	-.074	.137	.347	-.596
170	422	-.200	.165	.325	-.950
170	423	.107	.129	.477	-.427
170	424	-.241	.154	.175	-.867
170	425	-.096	.120	.189	-.661
170	426	-.235	.199	.237	-1.031
170	427	.023	.123	.466	-.398
170	428	.109	.118	.599	-.310
170	429	.214	.124	.681	-.179
170	430	.194	.138	.681	-.241
170	431	.152	.116	.555	-.198
170	432	.197	.139	.702	-.233
170	433	.209	.122	.680	-.189
170	434	.100	.147	.696	-.576
170	435	-.001	.107	.368	-.419
170	436	.029	.108	.494	-.372
170	437	.034	.095	.339	-.298
170	438	-.023	.109	.347	-.453
170	439	-.001	.111	.389	-.416
170	440	-.061	.119	.345	-.509
170	441	-.046	.108	.341	-.462
170	442	-.085	.118	.341	-.573
170	443	-.050	.114	.324	-.519
170	444	-.090	.120	.257	-.548
170	445	-.029	.108	.265	-.502
170	446	.065	.102	.430	-.346
170	447	.184	.103	.596	-.266
170	448	.179	.109	.625	-.332
170	449	.216	.115	.689	-.110
170	450	.179	.128	.708	-.200
170	451	.134	.114	.623	-.188
170	452	.060	.110	.480	-.315
170	453	.018	.093	.460	-.296
170	454	.044	.100	.463	-.338
170	455	-.020	.137	.420	-.943
170	456	.165	.118	.783	-.228
170	457	.034	.098	.445	-.337
170	801	-.081	.094	.257	-.409
170	901	-.270	.102	.109	-.636
170	902	-.262	.138	.158	-.771
170	903	-.134	.129	.370	-.646
170	904	-.308	.129	.060	-.809
170	905	-.313	.108	.027	-.747
170	906	-.302	.126	.102	-.908
170	907	-.547	.150	-.013	-1.125
170	908	-.615	.184	.018	-1.266
170	909	-.317	.119	-.111	-.870
170	910	-.436	.121	-.004	-.844
170	911	-.053	.114	.501	-.461
170	912	-.162	.171	.438	-.760
170	913	-.008	.125	.436	-.465
170	914	-.224	.163	.550	-.912
170	915	-.112	.111	.259	-.486
170	916	-.164	.111	.193	-.571
170	917	-.161	.102	.172	-.545
170	918	-.099	.105	.306	-.564
170	919	-.127	.099	.212	-.493
170	919	-.127	.099	.212	-.493
170	920	-.139	.105	.290	-.526
170	921	-.170	.097	.163	-.468
170	922	-.156	.131	.277	-.649
170	923	-.152	.110	.226	-.658
170	924	-.150	.109	.211	-.640
170	925	-.226	.117	.119	-.740
170	926	-.206	.153	.337	-.899
170	927	-.235	.139	.179	-.793
170	928	-.105	.195	.555	-.897
170	929	.036	.115	.399	-.389
180	1	-.285	.123	.155	-.979
180	2	-.215	.104	.135	-.753
180	3	-.201	.107	.141	-.541
180	4	-.230	.109	.089	-.922
180	5	-.119	.103	.256	-.563
180	6	-.067	.104	.382	-.442
180	7	-.118	.107	.339	-.436
180	8	-.094	.107	.289	-.516
180	9	-.099	.102	.273	-.457
180	10	-.078	.116	.384	-.498
180	11	-.242	.123	.180	-.654
180	12	-.084	.110	.336	-.448
180	13	-.327	.122	.162	-.791
180	14	-.209	.115	.182	-.673
180	15	-.206	.114	.218	-.629
180	16	-.209	.100	.114	-.554
180	101	-.580	.328	.326	-1.702
180	102	-.178	.208	.348	-1.190
180	103	-.423	.124	.054	-.903
180	104	-.503	.134	-.037	-.959
180	105	-.687	.202	-.175	-1.759
180	106	-.673	.183	-.146	-1.348
180	107	-.643	.161	-.070	-1.263
180	108	-.426	.145	.067	-1.152
180	109	-.376	.141	.127	-1.055
180	110	-.349	.129	.027	-.904
180	111	-.350	.129	.033	-.877
180	112	-.411	.137	.004	-.975
180	113	-.349	.131	.045	-.915
180	114	-.322	.122	.033	-.895
180	115	-.320	.123	.037	-.860
180	116	-.381	.124	-.011	-1.062
180	117	-.344	.121	.044	-.823
180	118	-.330	.113	.065	-.757
180	119	-.331	.115	.077	-.755
180	120	-.389	.118	.043	-.821
180	121	-.346	.119	.100	-.768
180	122	-.339	.113	.013	-.713
180	123	-.337	.115	.042	-.736
180	124	-.390	.119	-.009	-.794
180	125	-.938	.267	.269	-2.076
180	126	-.927	.278	-.006	-2.208
180	127	-.531	.274	.052	-1.981
180	128	-.612	.208	.066	-1.784
180	129	-.670	.213	-.042	-1.811
180	130	-.614	.189	.004	-1.436
180	131	-.569	.188	.008	-1.324
180	132	-.466	.159	.154	-1.469

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	133	-.410	.174	.217	-1.235
180	134	-.362	.146	.105	-.988
180	135	-.365	.152	.114	-1.030
180	136	-.357	.123	.004	-.793
180	137	-.348	.135	.095	-.881
180	138	-.323	.123	.086	-1.090
180	139	-.323	.121	.063	-.940
180	141	-.321	.108	.003	-.691
180	142	-.292	.102	.025	-.727
180	143	-.306	.107	.001	-.741
180	144	-.365	.113	-.044	-.815
180	145	-.325	.111	-.001	-.764
180	146	-.307	.110	.028	-.702
180	147	-.305	.115	.080	-.801
180	148	-.360	.118	.019	-.843
180	149	-.895	.280	.000	-2.266
180	150	-.928	.256	-.037	-1.909
180	151	-.600	.299	.234	-1.951
180	152	-.619	.228	-.050	-1.763
180	153	-.613	.211	.026	-1.636
180	154	-.532	.169	-.040	-1.555
180	155	-.513	.184	.072	-1.671
180	156	-.462	.166	.169	-1.268
180	157	-.393	.164	.217	-1.047
180	158	-.381	.164	.143	-1.234
180	159	-.371	.154	.124	-1.046
180	160	-.412	.144	.086	-1.049
180	161	-.341	.121	.074	-.810
180	162	-.331	.109	.052	-.865
180	163	-.309	.108	.105	-.709
180	164	-.322	.115	.100	-.818
180	165	-.318	.119	.121	-.822
180	166	-.340	.118	.064	-.950
180	167	-.334	.129	.089	-1.057
180	168	-.341	.130	.085	-1.136
180	169	-.339	.137	.106	-1.223
180	170	-.348	.126	.050	-.950
180	171	-.927	.270	-.186	-2.020
180	172	-.955	.277	.084	-2.072
180	173	-.654	.302	.117	-1.921
180	174	-.607	.205	-.048	-1.531
180	175	-.616	.194	.102	-1.473
180	176	-.597	.191	.064	-1.532
180	177	-.554	.188	.054	-1.385
180	178	-.525	.168	-.005	-1.410
180	179	-.438	.169	.105	-1.228
180	180	-.419	.172	.257	-1.210
180	181	-.416	.185	.220	-1.558
180	182	-.400	.140	.067	-1.020
180	183	-.374	.139	.073	-1.383
180	184	-.348	.122	.071	-.899
180	185	-.331	.117	.091	-.902
180	186	-.327	.105	.111	-.696
180	187	-.316	.109	.132	-.705
180	188	-.324	.116	.158	-.785
180	189	-.321	.122	.168	-.863
180	190	-.343	.116	.043	-1.008
180	191	-.340	.131	.083	-1.284
180	192	-.344	.130	.097	-1.246
180	193	-.336	.135	.124	-1.345
180	194	-.345	.131	.067	-.946
180	195	-.925	.260	-.049	-1.937
180	196	-.949	.268	-.062	-2.006
180	197	-.668	.269	.205	-1.998
180	198	-.647	.198	-.083	-1.625
180	199	-.646	.201	-.027	-1.543
180	200	-.616	.195	-.031	-1.522
180	201	-.560	.187	.047	-1.770
180	202	-.432	.158	.104	-1.266
180	203	-.402	.161	.093	-1.133
180	204	-.410	.167	.084	-1.195
180	205	-.395	.162	.133	-1.122
180	206	-.396	.147	.046	-1.395
180	207	-.363	.140	.042	-1.565
180	208	-.365	.125	.087	-.819
180	209	-.329	.118	.012	-.987
180	210	-.321	.118	.004	-.814
180	211	-.311	.129	.031	-.923
180	212	-.317	.135	.024	-1.123
180	213	-.322	.144	.031	-1.416
180	214	-.330	.125	.035	-.996
180	215	-.312	.132	.149	-.906
180	216	-.318	.130	.064	-1.180
180	217	-.772	.258	.097	-1.880
180	218	-.864	.274	.230	-1.880
180	219	-.569	.247	.078	-1.760
180	220	-.568	.201	.121	-1.603
180	221	-.606	.198	.079	-1.494
180	222	-.591	.192	-.040	-1.402
180	223	-.526	.186	.110	-1.498
180	224	-.450	.167	.064	-1.152
180	225	-.378	.161	.163	-1.136
180	226	-.381	.151	.198	-1.145
180	227	-.376	.173	.216	-1.432
180	228	-.367	.154	.156	-1.366
180	229	-.356	.152	.109	-1.709
180	230	-.334	.120	.044	-.933
180	231	-.318	.123	.082	-.806
180	232	-.315	.113	.097	-.701
180	233	-.333	.122	.066	-.773
180	234	-.341	.124	.036	-.997
180	235	-.331	.137	.087	-1.199
180	236	-.333	.141	.102	-1.553
180	237	-.344	.149	.109	-1.519
180	238	-.355	.146	.115	-.976
180	239	-.388	.144	.059	-1.174
180	240	-.350	.139	.076	-1.084
180	241	-.639	.187	-.062	-1.620
180	242	-.688	.219	.026	-1.766
180	243	-.534	.218	-.007	-1.646
180	244	-.481	.179	.059	-1.397
180	245	-.506	.165	.003	-1.346
180	246	-.469	.185	.071	-1.584
180	247	-.494	.181	.008	-1.561
180	248	-.333	.151	.118	-1.209
180	249	-.262	.144	.148	-.924
180	250	-.302	.166	.207	-.985
180	251	-.341	.159	.155	-1.170
180	252	-.293	.154	.149	-1.103
180	253	-.200	.112	.274	-.652
180	254	-.225	.120	.261	-.664
180	255	-.264	.108	.100	-.656
180	256	-.438	.153	.008	-1.018
180	257	-.397	.147	.056	-1.076
180	258	-.447	.174	.084	-1.330
180	259	-.520	.175	-.020	-1.607
180	260	-.452	.157	-.023	-1.056
180	261	-.399	.145	.004	-1.197
180	262	-.442	.158	.017	-1.082
180	263	-.700	.254	-.006	-2.171
180	264	-.534	.227	.214	-1.869
180	265	-.313	.135	.147	-.814
180	266	-.361	.146	.080	-.941
180	267	-.509	.197	.034	-1.406
180	268	-.389	.150	.028	-1.077
180	269	-.337	.127	.053	-1.223
180	270	-.285	.127	.099	-1.134
180	271	-.265	.129	.252	-1.188
180	272	-.209	.118	.149	-.995
180	273	-.162	.104	.203	-.877
180	274	-.240	.145	.176	-1.034
180	275	-.257	.119	.126	-1.010
180	276	-.209	.110	.190	-.690
180	277	-.152	.102	.188	-.769
180	278	-.164	.106	.212	-.559
180	279	-.182	.107	.190	-.513
180	280	-.169	.120	.296	-.595
180	281	-.271	.125	.107	-.814
180	282	-.336	.139	.102	-.991
180	283	-.386	.142	.102	-.978

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	284	-.383	.140	.076	-1.014
180	285	-.434	.158	.072	-1.151
180	286	-.511	.176	-.037	-1.888
180	301	-.166	.094	.158	-.504
180	302	-.084	.109	.297	-.409
180	303	-.008	.112	.384	-.359
180	304	.046	.112	.481	-.307
180	305	.107	.112	.443	-.312
180	306	.090	.126	.459	-.347
180	307	.118	.131	.558	-.327
180	308	.219	.143	.736	-.303
180	309	.260	.152	.752	-.240
180	310	.022	.111	.536	-.384
180	311	.070	.111	.476	-.275
180	312	.064	.122	.499	-.465
180	313	.156	.112	.611	-.254
180	314	.108	.137	.546	-.398
180	315	.193	.184	.830	-.414
180	316	.313	.173	.881	-.257
180	317	.052	.113	.405	-.514
180	318	-.034	.134	.383	-.686
180	319	-.006	.147	.500	-.675
180	320	.081	.117	.489	-.288
180	321	-.062	.149	.418	-.601
180	322	.029	.164	.573	-.511
180	323	.045	.174	.624	-.557
180	324	.166	.174	.691	-.421
180	325	.380	.154	.895	-.055
180	326	.410	.171	.916	-.127
180	327	-.001	.113	.362	-.393
180	328	.194	.144	.741	-.274
180	329	.117	.108	.472	-.342
180	330	.080	.116	.423	-.391
180	331	.023	.116	.364	-.379
180	332	-.022	.144	.358	-.566
180	333	-.185	.187	.355	-.946
180	334	-.287	.190	.336	-1.082
180	335	-.010	.145	.570	-.539
180	336	.079	.194	.755	-.646
180	337	.326	.142	.865	-.119
180	338	.356	.157	.885	-.139
180	339	.403	.164	.927	-.120
180	340	.439	.170	1.042	-.108
180	341	.409	.152	.942	-.123
180	342	.388	.162	.986	-.204
180	343	.367	.168	.985	-.266
180	344	.210	.166	.765	-.504
180	345	.014	.125	.469	-.524
180	346	.103	.157	.582	-.574
180	347	.065	.142	.483	-.461
180	348	.069	.148	.434	-.593
180	349	.030	.144	.468	-.552
180	350	-.124	.188	.432	-.754
180	351	-.219	.161	.326	-.825
180	352	-.201	.149	.321	-.759
180	353	.025	.128	.580	-.513
180	354	.033	.205	.706	-.844
180	355	.288	.147	.739	-.175
180	356	.395	.143	.809	-.048
180	357	.416	.150	.942	.016
180	358	.381	.159	.938	-.052
180	359	.353	.157	.922	-.089
180	360	.360	.158	.924	-.091
180	361	.351	.148	.983	-.079
180	362	.106	.156	.837	-.428
180	363	.002	.130	.534	-.486
180	364	.130	.143	.725	-.502
180	365	.121	.126	.506	-.324
180	366	.068	.135	.469	-.562
180	367	.008	.149	.441	-.617
180	368	-.109	.179	.394	-.642
180	369	-.189	.159	.344	-.648
180	370	-.225	.158	.320	-.694
180	371	-.008	.149	.489	-.653
180	372	.045	.205	.684	-.779
180	373	.266	.152	.869	-.173
180	374	.340	.156	.879	-.113
180	375	.377	.158	.931	-.099
180	376	.363	.153	.918	-.118
180	377	.380	.152	.853	-.096
180	378	.380	.167	.923	-.151
180	379	.349	.167	.911	-.164
180	380	.214	.182	.862	-.304
180	381	-.048	.165	.482	-.772
180	382	-.023	.203	.707	-.780
180	383	-.058	.181	.488	-.742
180	384	-.114	.199	.395	-.929
180	385	-.167	.164	.258	-.861
180	386	-.063	.171	.409	-.743
180	387	-.303	.156	.190	-.894
180	388	-.312	.154	.106	-.860
180	389	-.201	.139	.283	-.898
180	390	-.370	.250	.392	-1.553
180	391	.037	.151	.580	-.586
180	392	.241	.146	.760	-.189
180	393	.325	.144	.863	-.078
180	394	.352	.161	.945	-.130
180	395	.347	.160	.913	-.124
180	396	.348	.165	.941	-.151
180	397	.334	.148	.939	-.133
180	398	.183	.178	.942	-.388
180	399	-.056	.165	.525	-.826
180	400	-.028	.182	.569	-.657
180	401	-.040	.160	.580	-.601
180	402	-.092	.191	.382	-1.016
180	403	-.147	.182	.362	-.996
180	404	-.250	.173	.244	-1.012
180	405	-.319	.148	.201	-1.039
180	406	-.324	.158	.186	-1.195
180	407	-.192	.148	.373	-.822
180	408	-.337	.246	.477	-1.425
180	409	.022	.142	.564	-.502
180	410	.182	.148	.714	-.286
180	411	.266	.159	.840	-.239
180	412	.284	.165	.858	-.263
180	413	.281	.133	.748	-.125
180	414	.202	.129	.693	-.165
180	415	.263	.147	.749	-.276
180	416	.137	.161	.693	-.476
180	417	-.059	.121	.346	-.456
180	418	-.006	.149	.537	-.464
180	419	-.010	.135	.488	-.461
180	420	-.046	.136	.395	-.584
180	421	-.086	.138	.313	-.682
180	422	-.168	.166	.353	-1.142
180	423	.124	.136	.525	-.724
180	424	-.222	.161	.251	-1.202
180	425	-.151	.136	.216	-.706
180	426	-.273	.217	.296	-1.266
180	427	.006	.139	.528	-.477
180	428	.126	.128	.633	-.253
180	429	.202	.127	.781	-.198
180	430	.214	.136	.750	-.194
180	431	.120	.107	.537	-.216
180	432	.215	.138	.806	-.220
180	433	.212	.125	.600	-.267
180	434	.119	.141	.611	-.579
180	435	-.022	.103	.350	-.360
180	436	.013	.110	.404	-.378
180	437	-.001	.097	.387	-.377
180	438	-.028	.111	.328	-.435
180	439	-.028	.114	.369	-.429
180	440	-.071	.117	.292	-.470
180	441	-.062	.112	.252	-.561
180	442	-.069	.120	.269	-.564
180	443	-.055	.119	.279	-.556
180	444	-.077	.122	.261	-.657
180	445	-.058	.124	.314	-.515
180	446	.072	.126	.484	-.362
180	447	.177	.133	.672	-.232

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
180	448	.185	.136	.697	-.246
180	449	.211	.127	.643	-.283
180	450	.202	.138	.671	-.315
180	451	.091	.114	.511	-.326
180	452	-.006	.116	.374	-.434
180	453	.008	.096	.326	-.270
180	454	.063	.105	.441	-.289
180	455	.045	.121	.440	-.407
180	456	.169	.120	.582	-.226
180	457	-.005	.115	.555	-.354
180	801	-.097	.087	.199	-.384
180	901	-.317	.111	.064	-.777
180	902	-.394	.136	.172	-1.075
180	903	-.404	.148	.089	-.981
180	904	-.446	.124	-.065	-.964
180	905	-.362	.127	.072	-.915
180	906	-.419	.138	-.032	-1.015
180	907	-.617	.150	-.143	-1.217
180	908	-.646	.166	-.156	-1.237
180	909	-.418	.126	-.037	-.988
180	910	-.459	.121	.015	-.918
180	911	.099	.123	.589	-.264
180	912	.039	.173	.655	-.511
180	913	.141	.112	.539	-.301
180	914	-.000	.161	.612	-.556
180	915	-.188	.106	.150	-.553
180	916	-.211	.110	.178	-.735
180	917	-.160	.099	.155	-.567
180	918	-.145	.107	.191	-.590
180	919	-.201	.108	.102	-1.037
180	919	-.201	.108	.102	-1.037
180	920	-.219	.115	.217	-1.197
180	921	-.250	.101	.109	-.702
180	922	-.152	.141	.395	-.776
180	923	-.289	.125	.150	-.768
180	924	-.230	.116	.196	-.686
180	925	-.324	.131	.128	-.918
180	926	-.331	.149	.134	-1.022
180	927	-.391	.153	.134	-1.078
180	928	-.279	.182	.446	-1.001
180	929	.125	.119	.599	-.288
190	1	-.369	.146	.037	-1.211
190	2	-.274	.118	.140	-.788
190	3	-.264	.126	.148	-.976
190	4	-.322	.164	.071	-1.596
190	5	-.142	.127	.234	-.863
190	6	-.088	.107	.326	-.613
190	7	-.135	.108	.338	-.501
190	8	-.134	.100	.235	-.521
190	9	-.113	.100	.216	-.447

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	10	-.083	.119	.274	-.561
190	11	-.259	.157	.358	-.757
190	12	-.098	.111	.270	-.486
190	13	-.355	.143	.097	-.973
190	14	-.256	.125	.184	-.747
190	15	-.261	.122	.088	-.824
190	16	-.272	.105	.052	-.702
190	101	-.704	.288	.109	-1.989
190	102	-.562	.255	.296	-1.952
190	103	-.513	.166	-.018	-1.340
190	104	-.502	.165	.055	-1.152
190	105	-.530	.178	-.049	-1.399
190	106	-.527	.179	-.064	-1.436
190	107	-.553	.181	.006	-1.506
190	108	-.506	.175	.004	-1.545
190	109	-.444	.175	.261	-1.345
190	110	-.384	.150	.093	-1.233
190	111	-.408	.157	.046	-1.153
190	112	-.467	.156	.053	-1.225
190	113	-.412	.147	.028	-1.080
190	114	-.387	.131	.033	-.952
190	115	-.403	.134	.007	-.914
190	116	-.460	.132	-.041	-.959
190	117	-.422	.127	-.033	-.902
190	118	-.376	.113	.057	-.832
190	119	-.393	.118	.028	-.981
190	120	-.451	.122	-.023	-.973
190	121	-.415	.123	.007	-.906
190	122	-.368	.120	.046	-.856
190	123	-.384	.125	-.019	-.882
190	124	-.439	.129	-.055	-.953
190	125	-.663	.279	-.018	-1.819
190	126	-.633	.285	-.002	-2.000
190	127	-.589	.253	.073	-2.079
190	128	-.623	.237	.035	-1.898
190	129	-.534	.221	.145	-1.806
190	130	-.459	.185	.121	-1.302
190	131	-.471	.192	.143	-1.297
190	132	-.472	.160	.039	-1.364
190	133	-.451	.161	.009	-1.175
190	134	-.426	.152	-.003	-1.228
190	135	-.456	.174	.001	-1.469
190	136	-.457	.137	-.075	-1.170
190	137	-.425	.141	.012	-1.046
190	138	-.375	.120	.015	-.913
190	139	-.385	.119	.017	-.871
190	141	-.390	.115	.001	-.781
190	142	-.348	.107	-.009	-.682
190	143	-.368	.115	.006	-.722
190	144	-.429	.121	-.040	-.790

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	145	-.389	.118	-.019	-.765
190	146	-.353	.115	-.009	-.833
190	147	-.362	.122	-.005	-.875
190	148	-.418	.127	-.048	-.931
190	149	-.630	.282	-.033	-1.933
190	150	-.604	.293	.048	-1.895
190	151	-.588	.277	.195	-2.128
190	152	-.626	.257	.076	-1.952
190	153	-.537	.229	.078	-1.618
190	154	-.447	.183	.124	-1.375
190	155	-.465	.203	.103	-1.643
190	156	-.501	.170	.020	-1.101
190	157	-.478	.183	.122	-1.347
190	158	-.459	.180	.031	-1.530
190	159	-.444	.161	.023	-1.308
190	160	-.471	.152	-.028	-1.209
190	161	-.406	.121	.044	-.826
190	162	-.376	.104	-.032	-.763
190	163	-.370	.108	-.026	-.779
190	164	-.370	.112	.022	-.777
190	165	-.372	.116	.024	-.785
190	166	-.378	.115	-.021	-1.122
190	167	-.384	.128	.007	-1.417
190	168	-.376	.125	-.007	-1.257
190	169	-.371	.127	.045	-1.473
190	170	-.376	.113	.056	-.880
190	171	-.613	.266	.052	-1.759
190	172	-.618	.270	.038	-1.843
190	173	-.584	.244	.063	-1.752
190	174	-.588	.230	.004	-1.559
190	175	-.547	.226	-.002	-1.717
190	176	-.527	.219	.060	-1.776
190	177	-.522	.217	.106	-1.622
190	178	-.524	.187	.124	-1.532
190	179	-.504	.179	.013	-1.402
190	180	-.502	.182	.011	-1.347
190	181	-.516	.197	-.021	-1.519
190	182	-.475	.154	.000	-1.315
190	183	-.451	.153	.075	-1.103
190	184	-.414	.127	.055	-.898
190	185	-.404	.122	.029	-.939
190	186	-.395	.121	-.027	-.875
190	187	-.393	.130	.027	-.944
190	188	-.385	.138	.054	-1.169
190	189	-.386	.141	.089	-1.135
190	190	-.380	.119	-.021	-.867
190	191	-.386	.130	-.009	-.975
190	192	-.377	.127	-.010	-.946
190	193	-.369	.126	.012	-.887
190	194	-.386	.128	.040	-.992

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	195	-.690	.282	-.016	-1.811
190	196	-.696	.287	-.021	-1.861
190	197	-.624	.258	.068	-1.813
190	198	-.577	.208	.022	-1.471
190	199	-.543	.212	.081	-1.564
190	200	-.521	.207	.035	-1.640
190	201	-.520	.206	.003	-1.509
190	202	-.501	.171	-.036	-1.205
190	203	-.501	.187	.094	-1.491
190	204	-.505	.198	.118	-1.671
190	205	-.473	.173	.140	-1.399
190	206	-.473	.162	.001	-1.308
190	207	-.440	.141	.016	-1.125
190	208	-.472	.142	-.040	-1.238
190	209	-.404	.128	-.033	-.901
190	210	-.403	.130	.047	-1.041
190	211	-.397	.144	.142	-1.403
190	212	-.389	.151	.161	-1.649
190	213	-.407	.164	.116	-2.095
190	214	-.420	.154	.011	-1.175
190	215	-.404	.156	.054	-1.293
190	216	-.439	.163	-.021	-1.341
190	217	-.662	.248	-.094	-2.006
190	218	-.753	.258	-.056	-1.954
190	219	-.663	.242	-.014	-1.858
190	220	-.621	.231	.162	-1.857
190	221	-.589	.219	.102	-1.866
190	222	-.593	.222	.098	-2.103
190	223	-.588	.237	.164	-2.290
190	224	-.558	.222	.380	-1.554
190	225	-.523	.211	.158	-1.440
190	226	-.520	.198	.096	-1.603
190	227	-.536	.229	.177	-1.862
190	228	-.477	.187	.101	-1.290
190	229	-.456	.178	.080	-1.284
190	230	-.425	.140	.001	-1.060
190	231	-.419	.148	.050	-1.005
190	232	-.421	.148	.050	-1.135
190	233	-.465	.168	.057	-1.177
190	234	-.482	.169	.168	-1.562
190	235	-.476	.189	.316	-1.706
190	236	-.465	.190	.225	-1.664
190	237	-.489	.202	.058	-2.357
190	238	-.486	.202	.030	-1.588
190	239	-.564	.205	-.069	-1.643
190	240	-.493	.195	-.014	-1.519
190	241	-.681	.215	-.165	-1.551
190	242	-.729	.241	-.073	-1.796
190	243	-.710	.243	.042	-1.583
190	244	-.608	.219	.130	-1.623
190	245	-.581	.211	-.004	-1.946
190	246	-.570	.222	-.008	-1.716
190	247	-.661	.240	-.086	-2.065
190	248	-.484	.209	.202	-1.567
190	249	-.365	.169	.159	-1.351
190	250	-.414	.203	.264	-1.751
190	251	-.461	.178	.251	-1.242
190	252	-.385	.180	.176	-1.218
190	253	-.265	.135	.241	-1.043
190	254	-.293	.144	.219	-1.102
190	255	-.359	.137	.128	-.890
190	256	-.518	.189	-.024	-1.412
190	257	-.501	.199	.046	-1.965
190	258	-.556	.228	.144	-2.051
190	259	-.663	.231	.110	-1.851
190	260	-.609	.216	.036	-1.886
190	261	-.561	.192	-.076	-1.642
190	262	-.606	.205	-.086	-1.755
190	263	-.784	.310	.013	-2.102
190	264	-.615	.257	.171	-1.907
190	265	-.409	.161	.044	-1.313
190	266	-.454	.176	-.045	-1.416
190	267	-.628	.240	-.084	-1.942
190	268	-.493	.187	.127	-1.488
190	269	-.400	.158	.011	-1.730
190	270	-.362	.159	.080	-1.278
190	271	-.367	.165	.079	-1.732
190	272	-.268	.151	.143	-1.058
190	273	-.222	.148	.213	-1.093
190	274	-.279	.167	.242	-1.198
190	275	-.332	.154	.110	-1.307
190	276	-.257	.133	.174	-.901
190	277	-.183	.113	.195	-.643
190	278	-.193	.116	.166	-.602
190	279	-.247	.117	.179	-.707
190	280	-.205	.130	.208	-.757
190	281	-.315	.140	.111	-1.066
190	282	-.386	.154	.127	-1.196
190	283	-.460	.161	.136	-1.254
190	284	-.430	.160	.186	-1.343
190	285	-.540	.215	.066	-1.458
190	286	-.612	.224	-.011	-1.960
190	301	-.175	.107	.233	-.516
190	302	-.076	.127	.408	-.490
190	303	.024	.130	.491	-.396
190	304	.078	.128	.679	-.343
190	305	.148	.119	.633	-.331
190	306	.141	.137	.640	-.402
190	307	.169	.144	.630	-.366
190	308	.223	.155	.770	-.333
190	309	.203	.154	.718	-.351
190	310	.095	.122	.589	-.304
190	311	.141	.115	.520	-.227
190	312	.170	.121	.573	-.181
190	313	.211	.126	.618	-.203
190	314	.166	.140	.689	-.315
190	315	.279	.192	1.039	-.241
190	316	.403	.182	1.059	-.172
190	317	.136	.114	.482	-.255
190	318	.076	.125	.463	-.353
190	319	.122	.136	.626	-.310
190	320	.177	.115	.599	-.208
190	321	.188	.128	.648	-.200
190	322	.129	.153	.661	-.432
190	323	.185	.183	.810	-.462
190	324	.306	.178	.898	-.306
190	325	.355	.151	.887	-.079
190	326	.353	.161	.923	-.125
190	327	.009	.117	.367	-.386
190	328	.231	.147	.736	-.217
190	329	.188	.118	.714	-.205
190	330	.162	.126	.694	-.252
190	331	.127	.119	.584	-.246
190	332	.123	.131	.595	-.357
190	333	.027	.168	.495	-.628
190	334	-.124	.185	.431	-.795
190	335	.157	.147	.651	-.477
190	336	.276	.174	.829	-.566
190	337	.394	.160	.975	-.124
190	338	.384	.173	1.023	-.182
190	339	.404	.173	1.015	-.151
190	340	.399	.171	.969	-.137
190	341	.355	.159	.826	-.136
190	342	.332	.169	.891	-.194
190	343	.335	.176	.896	-.205
190	344	.176	.163	.632	-.347
190	345	.047	.104	.460	-.329
190	346	.195	.131	.768	-.340
190	347	.165	.120	.610	-.220
190	348	.180	.114	.628	-.309
190	349	.143	.113	.524	-.391
190	350	.040	.174	.526	-.659
190	351	-.102	.182	.530	-.689
190	352	-.103	.164	.512	-.617
190	353	.157	.141	.803	-.393
190	354	.239	.174	.898	-.401
190	355	.382	.158	1.002	-.095
190	356	.423	.160	.989	-.037
190	357	.446	.152	1.131	-.053
190	358	.391	.159	.997	-.124

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
190	359	.367	.157	.920	-.102
190	360	.371	.157	.911	-.099
190	361	.342	.153	.987	-.264
190	362	.105	.153	.729	-.585
190	363	.012	.119	.396	-.409
190	364	.190	.133	.683	-.279
190	365	.180	.115	.629	-.329
190	366	.141	.121	.554	-.396
190	367	.114	.122	.530	-.394
190	368	.060	.168	.484	-.656
190	369	-.052	.175	.492	-.850
190	370	-.099	.171	.472	-.884
190	371	.127	.152	.608	-.479
190	372	.228	.169	.744	-.592
190	373	.352	.153	.863	-.117
190	374	.369	.164	.953	-.130
190	375	.376	.163	.889	-.134
190	376	.340	.156	.857	-.166
190	377	.310	.129	.797	-.096
190	378	.311	.136	.820	-.119
190	379	.293	.141	.813	-.126
190	380	.113	.134	.568	-.338
190	381	-.025	.114	.382	-.514
190	382	.128	.131	.762	-.295
190	383	.116	.115	.670	-.330
190	384	.106	.112	.634	-.309
190	385	.138	.098	.498	-.343
190	386	.011	.140	.403	-.810
190	387	-.100	.168	.438	-.763
190	388	-.119	.153	.417	-.758
190	389	.063	.132	.546	-.398
190	390	.156	.165	.690	-.567
190	391	.262	.149	.853	-.195
190	392	.301	.150	.910	-.119
190	393	.322	.153	.848	-.162
190	394	.293	.155	.816	-.235
190	395	.266	.149	.767	-.271
190	396	.273	.154	.804	-.297
190	397	.246	.145	.856	-.180
190	398	.031	.150	.659	-.535
190	399	-.105	.115	.356	-.533
190	400	.069	.115	.549	-.353
190	401	.072	.106	.414	-.279
190	402	.057	.107	.463	-.549
190	403	.030	.104	.381	-.472
190	404	-.030	.133	.345	-.657
190	405	-.129	.143	.299	-.662
190	406	-.144	.138	.308	-.684
190	407	.011	.119	.443	-.432
190	408	.100	.138	.595	-.443
190	409	.180	.140	.670	-.266
190	410	.222	.155	.705	-.290
190	411	.231	.158	.743	-.307
190	412	.206	.149	.699	-.326
190	413	.196	.127	.622	-.234
190	414	.187	.143	.670	-.293
190	415	.179	.140	.688	-.319
190	416	-.010	.138	.508	-.550
190	417	-.139	.103	.258	-.509
190	418	.005	.110	.397	-.418
190	419	.031	.100	.532	-.346
190	420	.019	.094	.348	-.333
190	421	.011	.096	.360	-.341
190	422	-.031	.116	.405	-.539
190	423	.203	.109	.593	-.272
190	424	-.122	.129	.349	-.692
190	425	-.015	.108	.372	-.380
190	426	.015	.133	.594	-.550
190	427	.092	.129	.584	-.316
190	428	.115	.133	.611	-.311
190	429	.126	.137	.555	-.255
190	430	.108	.139	.585	-.277
190	431	.117	.121	.538	-.313
190	432	.095	.138	.671	-.322
190	433	.084	.128	.612	-.321
190	434	-.054	.131	.451	-.479
190	435	-.070	.110	.316	-.461
190	436	.011	.103	.467	-.366
190	437	.066	.099	.401	-.287
190	438	.048	.103	.414	-.320
190	439	.055	.102	.389	-.315
190	440	.037	.103	.388	-.385
190	441	.014	.101	.345	-.341
190	442	.009	.103	.320	-.338
190	443	.012	.102	.321	-.321
190	444	-.005	.101	.301	-.339
190	445	.002	.094	.270	-.314
190	446	-.004	.101	.345	-.367
190	447	.112	.108	.483	-.235
190	448	.117	.114	.532	-.250
190	449	.127	.127	.609	-.303
190	450	.121	.132	.647	-.321
190	451	.084	.129	.747	-.400
190	452	-.035	.128	.499	-.532
190	453	-.007	.100	.363	-.346
190	454	.051	.111	.479	-.331
190	455	.062	.122	.462	-.535
190	456	.137	.125	.677	-.338
190	457	-.029	.120	.396	-.495
190	801	-.141	.098	.155	-.534
190	901	-.416	.135	-.002	-1.032
190	902	-.478	.147	.049	-1.091
190	903	-.564	.155	-.100	-1.214
190	904	-.520	.141	-.121	-1.180
190	905	-.431	.136	-.057	-1.021
190	906	-.497	.146	-.086	-1.631
190	907	-.663	.165	-.188	-1.350
190	908	-.679	.190	-.182	-1.549
190	909	-.482	.133	-.054	-1.002
190	910	-.522	.132	-.084	-1.065
190	911	.139	.129	.564	-.283
190	912	.162	.156	.796	-.408
190	913	.210	.119	.679	-.158
190	914	.141	.161	.650	-.448
190	915	-.262	.113	.113	-.713
190	916	-.264	.137	.121	-1.089
190	917	-.209	.122	.177	-1.325
190	918	-.245	.153	.190	-1.761
190	919	-.260	.114	.081	-.733
190	919	-.260	.114	.081	-.733
190	920	-.343	.153	.158	-1.596
190	921	-.306	.119	.032	-.786
190	922	-.153	.158	.398	-.789
190	923	-.428	.160	.110	-1.198
190	924	-.313	.135	.252	-.894
190	925	-.359	.152	.084	-1.136
190	926	-.408	.178	.200	-1.125
190	927	-.459	.196	.110	-1.194
190	928	-.373	.200	.410	-1.177
190	929	.199	.127	.627	-.265
200	1	-.362	.152	.052	-1.071
200	2	-.288	.129	.136	-.864
200	3	-.266	.128	.082	-1.026
200	4	-.282	.152	.200	-1.396
200	5	-.122	.135	.329	-.744
200	6	-.106	.125	.393	-.791
200	7	-.165	.123	.269	-.586
200	8	-.184	.105	.181	-.515
200	9	-.148	.112	.368	-.580
200	10	-.086	.127	.403	-.487
200	11	-.241	.179	.520	-.816
200	12	-.106	.119	.338	-.509
200	13	-.368	.138	.186	-.848
200	14	-.294	.128	.130	-.794
200	15	-.284	.132	.232	-.817
200	16	-.272	.112	.130	-.681
200	101	-.456	.151	.016	-1.507
200	102	-.483	.158	.070	-1.155
200	103	-.520	.165	.050	-1.073
200	104	-.468	.168	.090	-1.144

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	105	-.413	.144	.120	-1.138
200	106	-.434	.155	.140	-1.237
200	107	-.490	.164	.071	-1.328
200	108	-.460	.152	-.033	-1.248
200	109	-.453	.153	.108	-1.119
200	110	-.410	.136	.022	-1.079
200	111	-.440	.148	-.020	-1.140
200	112	-.487	.146	-.047	-1.192
200	113	-.447	.143	-.005	-1.155
200	114	-.396	.126	.019	-.957
200	115	-.414	.130	.020	-.963
200	116	-.461	.129	-.054	-1.043
200	117	-.422	.126	-.018	-.965
200	118	-.381	.115	-.055	-.898
200	119	-.398	.121	-.050	-.972
200	120	-.453	.127	-.081	-1.061
200	121	-.427	.133	-.047	-1.257
200	122	-.381	.119	.012	-.889
200	123	-.401	.124	.015	-.864
200	124	-.452	.128	-.011	-.933
200	125	-.437	.162	.036	-1.789
200	126	-.387	.130	.028	-1.061
200	127	-.420	.145	.174	-1.145
200	128	-.479	.159	.132	-1.516
200	129	-.423	.153	.186	-1.338
200	130	-.386	.133	.036	-1.258
200	131	-.407	.137	.024	-1.168
200	132	-.431	.134	-.046	-1.528
200	133	-.439	.135	.044	-.940
200	134	-.417	.136	-.006	-1.170
200	135	-.447	.153	-.021	-1.285
200	136	-.432	.134	-.094	-1.305
200	137	-.416	.129	.025	-.980
200	138	-.378	.109	-.037	-.740
200	139	-.394	.112	-.056	-.756
200	141	-.413	.113	-.054	-.776
200	142	-.363	.116	-.012	-.822
200	143	-.382	.125	-.013	-.861
200	144	-.437	.131	-.048	-.926
200	145	-.405	.131	-.008	-.919
200	146	-.375	.122	.070	-.861
200	147	-.384	.128	.071	-.862
200	148	-.434	.132	.041	-.915
200	149	-.433	.146	-.009	-1.173
200	150	-.398	.131	-.011	-1.082
200	151	-.433	.150	-.003	-1.236
200	152	-.493	.158	-.006	-1.287
200	153	-.439	.148	.033	-1.104
200	154	-.393	.128	-.020	-.971
200	155	-.416	.137	-.011	-.932
200	156	-.483	.136	-.058	-1.038
200	157	-.462	.146	-.042	-1.146
200	158	-.441	.150	-.015	-1.105
200	159	-.427	.142	.095	-1.001
200	160	-.450	.138	.011	-.983
200	161	-.417	.132	.005	-1.014
200	162	-.397	.099	-.040	-.753
200	163	-.398	.103	-.048	-.818
200	164	-.382	.109	-.027	-.765
200	165	-.390	.114	-.006	-.857
200	166	-.396	.113	-.019	-.898
200	167	-.407	.124	-.060	-1.105
200	168	-.387	.121	-.035	-1.020
200	169	-.386	.120	-.009	-.905
200	170	-.395	.110	.017	-.847
200	171	-.471	.164	-.060	-1.838
200	172	-.458	.163	-.047	-1.820
200	173	-.480	.176	.011	-2.162
200	174	-.480	.149	-.025	-1.606
200	175	-.465	.146	.003	-1.309
200	176	-.442	.142	.004	-1.235
200	177	-.456	.146	.012	-1.219
200	178	-.455	.140	-.023	-1.460
200	179	-.462	.143	.004	-1.201
200	180	-.452	.147	.071	-1.184
200	181	-.474	.157	.049	-1.208
200	182	-.461	.118	.013	-1.044
200	183	-.450	.118	-.042	-1.012
200	184	-.429	.117	-.072	-.891
200	185	-.432	.116	-.038	-.871
200	186	-.443	.119	.024	-.933
200	187	-.448	.131	.069	-1.151
200	188	-.422	.134	.073	-1.029
200	189	-.433	.141	.067	-1.154
200	190	-.427	.124	-.056	-1.009
200	191	-.442	.140	-.018	-1.170
200	192	-.417	.134	-.003	-1.077
200	193	-.417	.131	-.014	-1.048
200	194	-.420	.143	-.023	-1.179
200	195	-.534	.209	-.034	-1.619
200	196	-.518	.209	-.026	-1.611
200	197	-.530	.210	.049	-1.648
200	198	-.538	.182	-.032	-1.627
200	199	-.521	.185	.041	-1.476
200	200	-.492	.180	.102	-1.399
200	201	-.510	.183	.025	-1.624
200	202	-.521	.159	-.069	-1.175
200	203	-.534	.168	-.084	-1.341
200	204	-.519	.172	-.094	-1.318
200	205	-.504	.155	-.081	-1.180
200	206	-.495	.138	-.087	-1.428
200	207	-.501	.141	-.034	-1.216
200	208	-.502	.146	.032	-1.251
200	209	-.478	.144	-.050	-1.413
200	210	-.488	.162	-.057	-1.599
200	211	-.490	.174	-.018	-1.764
200	212	-.468	.177	.100	-1.717
200	213	-.497	.188	.279	-1.657
200	214	-.496	.166	-.012	-1.514
200	215	-.492	.167	-.004	-1.461
200	216	-.506	.185	-.016	-1.634
200	217	-.646	.235	-.047	-1.739
200	218	-.638	.209	-.124	-1.878
200	219	-.620	.220	.158	-1.745
200	220	-.584	.225	.129	-1.690
200	221	-.566	.214	.066	-1.900
200	222	-.581	.207	.009	-2.477
200	223	-.589	.214	.000	-1.685
200	224	-.557	.195	.057	-1.416
200	225	-.552	.187	.139	-1.287
200	226	-.585	.189	.064	-1.433
200	227	-.613	.218	.110	-1.721
200	228	-.536	.180	.131	-1.279
200	229	-.528	.182	.112	-1.485
200	230	-.493	.154	-.042	-1.251
200	231	-.494	.164	-.011	-1.281
200	232	-.485	.167	.022	-1.509
200	233	-.545	.191	-.012	-1.557
200	234	-.584	.201	-.005	-1.788
200	235	-.590	.223	.017	-1.791
200	236	-.566	.218	-.001	-1.861
200	237	-.604	.226	-.037	-2.101
200	238	-.644	.224	.038	-1.544
200	239	-.675	.223	-.170	-1.896
200	240	-.664	.220	-.165	-1.684
200	241	-.776	.220	-.154	-1.991
200	242	-.745	.237	-.108	-2.120
200	243	-.658	.233	.198	-1.724
200	244	-.623	.217	.134	-1.644
200	245	-.541	.198	.014	-1.744
200	246	-.593	.219	.142	-1.876
200	247	-.599	.223	.022	-1.841
200	248	-.490	.189	.067	-1.486
200	249	-.462	.171	.081	-1.270
200	250	-.448	.193	.163	-1.384
200	251	-.419	.162	.154	-1.209
200	252	-.397	.169	.129	-1.315
200	253	-.367	.150	.145	-.989
200	254	-.341	.155	.128	-1.220
200	255	-.390	.136	.017	-1.057

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	256	-.518	.211	.116	-1.463
200	257	-.563	.200	-.031	-1.907
200	258	-.554	.220	.022	-1.738
200	259	-.553	.208	-.041	-1.656
200	260	-.553	.198	.024	-1.709
200	261	-.663	.212	.042	-1.814
200	262	-.648	.210	-.010	-2.212
200	263	-.642	.274	-.006	-2.177
200	264	-.560	.232	.135	-1.495
200	265	-.477	.153	.016	-1.211
200	266	-.449	.159	.063	-1.181
200	267	-.504	.190	.053	-1.498
200	268	-.431	.173	.204	-1.143
200	269	-.465	.159	-.024	-1.261
200	270	-.362	.163	.081	-1.293
200	271	-.293	.158	.324	-1.068
200	272	-.253	.165	.314	-1.318
200	273	-.256	.142	.247	-1.148
200	274	-.256	.153	.243	-1.004
200	275	-.247	.137	.153	-.949
200	276	-.228	.131	.210	-.714
200	277	-.237	.111	.198	-.859
200	278	-.206	.114	.193	-.740
200	279	-.212	.113	.251	-.636
200	280	-.178	.125	.334	-.612
200	281	-.322	.131	.154	-.895
200	282	-.340	.148	.163	-1.140
200	283	-.318	.144	.193	-.990
200	284	-.317	.151	.269	-1.009
200	285	-.405	.193	.196	-1.225
200	286	-.453	.204	.263	-1.394
200	301	-.132	.117	.243	-.553
200	302	-.025	.145	.447	-.486
200	303	.084	.145	.568	-.406
200	304	.128	.139	.640	-.429
200	305	.207	.133	.688	-.257
200	306	.201	.149	.740	-.277
200	307	.226	.151	.750	-.260
200	308	.222	.155	.760	-.312
200	309	.159	.134	.696	-.305
200	310	.190	.137	.699	-.267
200	311	.221	.128	.704	-.256
200	312	.213	.127	.662	-.170
200	313	.247	.129	.685	-.199
200	314	.226	.141	.723	-.228
200	315	.313	.173	.959	-.194
200	316	.417	.183	.983	-.073
200	317	.198	.113	.572	-.185
200	318	.165	.120	.607	-.239
200	319	.230	.134	.763	-.198
200	320	.244	.122	.689	-.156
200	321	.253	.133	.719	-.111
200	322	.217	.137	.846	-.201
200	323	.302	.173	1.187	-.208
200	324	.402	.176	1.191	-.153
200	325	.370	.158	.901	-.120
200	326	.354	.167	.930	-.183
200	327	.071	.122	.524	-.370
200	328	.301	.156	.906	-.161
200	329	.232	.116	.612	-.120
200	330	.215	.124	.655	-.151
200	331	.210	.115	.589	-.116
200	332	.224	.122	.625	-.152
200	333	.218	.134	.631	-.307
200	334	.129	.163	.579	-.461
200	335	.323	.144	.855	-.126
200	336	.403	.155	.966	-.074
200	337	.410	.160	.952	-.065
200	338	.385	.165	.967	-.120
200	339	.388	.157	.943	-.092
200	340	.355	.153	.945	-.103
200	341	.358	.150	.801	-.152
200	342	.339	.160	.836	-.255
200	343	.367	.171	.962	-.323
200	344	.194	.149	.673	-.434
200	345	.071	.115	.461	-.342
200	346	.241	.149	.789	-.271
200	347	.227	.127	.691	-.200
200	348	.229	.130	.662	-.253
200	349	.215	.107	.642	-.108
200	350	.205	.125	.683	-.306
200	351	.152	.168	.724	-.392
200	352	.125	.163	.713	-.386
200	353	.296	.130	.795	-.072
200	354	.365	.142	.947	-.056
200	355	.401	.150	.950	-.261
200	356	.400	.152	.976	-.220
200	357	.392	.158	.893	-.153
200	358	.328	.158	.812	-.244
200	359	.322	.145	.737	-.209
200	360	.323	.155	.800	-.267
200	361	.322	.152	.796	-.081
200	362	.100	.136	.553	-.369
200	363	.048	.115	.417	-.423
200	364	.233	.139	.866	-.306
200	365	.218	.112	.586	-.133
200	366	.193	.117	.582	-.180
200	367	.182	.101	.529	-.129
200	368	.188	.118	.593	-.279
200	369	.123	.160	.653	-.563
200	370	.074	.156	.654	-.653
200	371	.246	.130	.689	-.222
200	372	.319	.159	.918	-.293
200	373	.362	.163	.853	-.128
200	374	.348	.127	.659	.015
200	375	.335	.124	.636	.010
200	376	.295	.151	.799	-.143
200	377	.246	.133	.743	-.156
200	378	.240	.141	.836	-.183
200	379	.254	.148	.910	-.194
200	380	.077	.128	.504	-.347
200	381	-.010	.111	.396	-.437
200	382	.150	.129	.701	-.285
200	383	.147	.110	.567	-.220
200	384	.140	.108	.557	-.213
200	385	.179	.107	.640	-.162
200	386	.088	.127	.440	-.553
200	387	.051	.169	.640	-.620
200	388	.021	.166	.678	-.521
200	389	.148	.132	.628	-.259
200	390	.208	.156	.751	-.394
200	391	.239	.170	.801	-.368
200	392	.250	.168	.791	-.271
200	393	.223	.163	.778	-.194
200	394	.198	.162	.724	-.238
200	395	.189	.153	.701	-.244
200	396	.191	.158	.745	-.247
200	397	.175	.155	1.055	-.378
200	398	-.024	.145	.654	-.647
200	399	-.129	.129	.407	-.654
200	400	.040	.123	.540	-.331
200	401	.068	.106	.517	-.283
200	402	.053	.109	.516	-.310
200	403	.046	.108	.483	-.279
200	404	.022	.126	.452	-.534
200	405	-.014	.148	.508	-.611
200	406	-.039	.152	.465	-.564
200	407	.029	.119	.522	-.405
200	408	.054	.122	.561	-.427
200	409	.079	.148	.584	-.464
200	410	.098	.161	.701	-.489
200	411	.112	.155	.711	-.434
200	412	.099	.148	.677	-.356
200	413	.114	.144	.646	-.376
200	414	.095	.150	.670	-.324
200	415	.104	.158	.745	-.403
200	416	-.061	.153	.449	-.609
200	417	-.156	.111	.261	-.675
200	418	-.019	.112	.372	-.413
200	419	.011	.103	.532	-.384

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
200	420	-.001	.097	.317	-.490
200	421	-.003	.103	.347	-.489
200	422	-.025	.118	.363	-.522
200	423	.240	.107	.577	-.179
200	424	-.061	.128	.347	-.567
200	425	-.024	.101	.292	-.437
200	426	-.029	.118	.472	-.534
200	427	-.004	.122	.553	-.534
200	428	.007	.126	.551	-.554
200	429	.024	.128	.655	-.409
200	430	.006	.133	.708	-.413
200	431	-.011	.116	.450	-.414
200	432	.001	.135	.666	-.452
200	433	.010	.139	.522	-.442
200	434	-.124	.144	.426	-.599
200	435	-.051	.118	.400	-.475
200	436	.001	.100	.385	-.321
200	437	.080	.108	.496	-.308
200	438	.060	.111	.466	-.353
200	439	.072	.110	.538	-.325
200	440	.055	.112	.456	-.368
200	441	.034	.105	.409	-.354
200	442	-.017	.107	.386	-.389
200	443	.000	.102	.399	-.357
200	444	-.003	.105	.431	-.351
200	445	-.008	.101	.372	-.407
200	446	-.022	.109	.401	-.444
200	447	.065	.109	.458	-.269
200	448	.073	.114	.572	-.285
200	449	.059	.112	.485	-.304
200	450	.054	.119	.537	-.306
200	451	.011	.112	.598	-.355
200	452	-.083	.111	.409	-.468
200	453	.006	.109	.364	-.396
200	454	.052	.116	.505	-.357
200	455	.048	.116	.512	-.373
200	456	.089	.132	.691	-.296
200	457	-.060	.109	.358	-.428
200	801	-.232	.109	.211	-.685
200	901	-.469	.125	-.084	-.972
200	902	-.457	.132	-.037	-1.073
200	903	-.482	.136	-.006	-1.146
200	904	-.467	.127	-.058	-1.097
200	905	-.496	.138	-.034	-1.168
200	906	-.462	.131	-.077	-1.092
200	907	-.501	.145	-.102	-1.171
200	908	-.527	.165	-.031	-1.322
200	909	-.447	.122	-.021	-1.016
200	910	-.473	.127	-.016	-.934
200	911	.241	.138	.723	-.266
200	912	.261	.155	.764	-.266
200	913	.242	.129	.726	-.253
200	914	.250	.153	.782	-.225
200	915	-.254	.113	.178	-.648
200	916	-.234	.124	.253	-.900
200	917	-.250	.125	.180	-.796
200	918	-.262	.143	.147	-1.090
200	919	-.259	.125	.178	-1.200
200	919	-.259	.125	.178	-1.200
200	920	-.331	.151	.144	-1.619
200	921	-.305	.124	.104	-1.171
200	922	-.093	.168	.490	-.802
200	923	-.378	.163	.186	-1.496
200	924	-.324	.149	.260	-1.288
200	925	-.272	.143	.226	-.784
200	926	-.430	.168	.225	-1.188
200	927	-.321	.179	.436	-1.058
200	928	-.412	.181	.256	-1.210
200	929	.246	.135	.750	-.166
210	1	-.477	.225	.153	-1.651
210	2	-.356	.173	.108	-1.500
210	3	-.294	.160	.215	-1.024
210	4	-.357	.193	.111	-1.253
210	5	-.129	.133	.250	-.981
210	6	-.142	.117	.305	-.554
210	7	-.209	.113	.151	-.621
210	8	-.231	.113	.144	-.660
210	9	-.205	.108	.147	-.530
210	10	-.110	.124	.316	-.546
210	11	-.257	.138	.483	-.766
210	12	-.123	.119	.324	-.540
210	13	-.341	.128	.036	-.888
210	14	-.282	.125	.200	-.806
210	15	-.299	.172	.278	-1.199
210	16	-.296	.141	.131	-1.030
210	101	-.349	.114	.025	-.859
210	102	-.367	.122	.013	-.916
210	103	-.420	.134	-.004	-1.036
210	104	-.390	.141	.031	-.982
210	105	-.351	.117	.055	-.884
210	106	-.366	.123	.044	-.841
210	107	-.413	.124	-.021	-.961
210	108	-.414	.127	-.007	-.937
210	109	-.390	.121	.012	-.855
210	110	-.368	.116	.028	-.843
210	111	-.389	.125	.022	-.932
210	112	-.429	.129	.024	-.897
210	113	-.394	.127	.055	-.914
210	114	-.379	.122	.038	-.904
210	115	-.391	.127	.044	-1.278
210	116	-.428	.125	-.004	-.861
210	117	-.389	.123	.001	-.879
210	118	-.352	.119	.017	-.781
210	119	-.364	.127	.030	-.992
210	120	-.413	.132	.002	-1.096
210	121	-.392	.138	.031	-1.005
210	122	-.350	.115	.013	-.851
210	123	-.365	.117	.016	-.773
210	124	-.408	.121	-.015	-.845
210	125	-.352	.117	.072	-.765
210	126	-.341	.108	.025	-.738
210	127	-.366	.118	.012	-.819
210	128	-.415	.125	-.019	-.895
210	129	-.375	.125	.054	-.869
210	130	-.345	.107	-.004	-.759
210	131	-.361	.110	-.028	-.762
210	132	-.387	.117	.029	-.807
210	133	-.385	.115	-.037	-.875
210	134	-.361	.113	.002	-.842
210	135	-.384	.123	-.023	-.957
210	136	-.383	.118	.012	-.904
210	137	-.368	.117	.195	-.785
210	138	-.378	.105	-.075	-.885
210	139	-.388	.107	-.049	-.820
210	141	-.393	.111	-.047	-.891
210	142	-.348	.108	-.024	-.739
210	143	-.361	.118	-.006	-.847
210	144	-.411	.125	-.052	-1.085
210	145	-.383	.128	.012	-1.206
210	146	-.358	.114	-.007	-.910
210	147	-.360	.114	.028	-.872
210	148	-.403	.116	-.010	-.916
210	149	-.375	.111	-.023	-.731
210	150	-.353	.107	.055	-1.026
210	151	-.377	.119	.062	-.860
210	152	-.428	.121	.006	-.960
210	153	-.384	.116	.059	-.884
210	154	-.359	.111	-.037	-.801
210	155	-.374	.118	-.032	-.886
210	156	-.430	.117	-.087	-1.056
210	157	-.401	.123	-.043	-1.117
210	158	-.380	.115	-.027	-.925
210	159	-.376	.114	.013	-.861
210	160	-.412	.112	-.023	-.950
210	161	-.394	.110	-.063	-.823
210	162	-.396	.113	-.005	-1.066
210	163	-.400	.117	-.028	-.995
210	164	-.362	.124	.031	-1.012
210	165	-.381	.134	.029	-1.025
210	166	-.385	.113	-.011	-.855

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	167	-.407	.128	.019	-1.043
210	168	-.371	.122	.035	-.926
210	169	-.381	.120	.034	-.881
210	170	-.367	.113	-.040	-1.059
210	171	-.394	.126	-.033	-1.271
210	172	-.364	.123	-.002	-1.287
210	173	-.393	.128	-.009	-1.210
210	174	-.423	.118	-.076	-1.055
210	175	-.424	.121	-.059	-.955
210	176	-.389	.116	-.024	-.870
210	177	-.411	.119	-.030	-.925
210	178	-.430	.119	.039	-.914
210	179	-.444	.127	.045	-1.227
210	180	-.417	.132	.054	-1.404
210	181	-.448	.144	.053	-1.456
210	182	-.426	.120	-.040	-.952
210	183	-.428	.126	-.028	-.922
210	184	-.405	.128	-.034	-1.137
210	185	-.421	.128	-.049	-1.029
210	186	-.425	.116	-.091	-.822
210	187	-.431	.127	-.062	-.950
210	188	-.393	.127	-.019	-.943
210	189	-.412	.136	-.015	-1.268
210	190	-.412	.132	-.005	-1.181
210	191	-.434	.148	.010	-1.466
210	192	-.395	.138	.018	-1.272
210	193	-.405	.134	.020	-1.176
210	194	-.424	.134	-.041	-1.304
210	195	-.456	.144	-.044	-1.123
210	196	-.425	.143	-.034	-1.168
210	197	-.461	.160	-.066	-1.569
210	198	-.488	.154	-.054	-1.201
210	199	-.484	.159	-.041	-1.278
210	200	-.443	.154	-.025	-1.267
210	201	-.469	.156	-.071	-1.565
210	202	-.461	.132	-.100	-1.185
210	203	-.483	.142	-.045	-1.093
210	204	-.458	.145	-.039	-1.172
210	205	-.478	.150	.042	-1.171
210	206	-.473	.128	-.055	-1.065
210	207	-.499	.146	-.044	-1.254
210	208	-.549	.157	-.085	-1.212
210	209	-.468	.139	-.032	-1.146
210	210	-.475	.138	-.041	-1.285
210	211	-.484	.148	-.024	-1.264
210	212	-.450	.152	.007	-1.282
210	213	-.493	.168	-.044	-1.371
210	214	-.504	.162	-.076	-1.430
210	215	-.510	.168	-.095	-1.563
210	216	-.546	.166	-.089	-1.389
210	217	-.585	.235	-.015	-2.054
210	218	-.561	.196	.022	-1.834
210	219	-.564	.212	.061	-1.383
210	220	-.523	.215	.112	-1.345
210	221	-.522	.208	.161	-1.467
210	222	-.505	.198	.052	-1.663
210	223	-.519	.208	-.012	-1.913
210	224	-.478	.187	.002	-1.698
210	225	-.490	.171	.025	-1.690
210	226	-.519	.155	.064	-1.318
210	227	-.546	.178	.122	-1.399
210	228	-.491	.154	.091	-1.240
210	229	-.508	.154	.048	-1.351
210	230	-.516	.146	-.096	-1.369
210	231	-.523	.157	-.050	-1.577
210	232	-.492	.152	-.065	-1.211
210	233	-.540	.171	-.078	-1.578
210	234	-.550	.186	-.071	-1.738
210	235	-.565	.208	.003	-1.771
210	236	-.530	.198	.052	-1.510
210	237	-.577	.206	.041	-1.594
210	238	-.579	.189	-.002	-1.799
210	239	-.631	.194	-.173	-1.638
210	240	-.599	.187	-.169	-1.561
210	241	-.597	.212	-.069	-1.640
210	242	-.571	.221	-.020	-1.783
210	243	-.563	.207	.341	-1.518
210	244	-.523	.194	.185	-1.510
210	245	-.546	.210	.077	-1.738
210	246	-.521	.211	.057	-2.176
210	247	-.557	.204	-.017	-1.609
210	248	-.475	.166	.056	-1.144
210	249	-.467	.170	.076	-1.273
210	250	-.455	.189	.123	-1.470
210	251	-.465	.173	.121	-1.376
210	252	-.443	.196	.079	-2.090
210	253	-.444	.159	.070	-1.104
210	254	-.411	.158	.072	-1.050
210	255	-.450	.139	-.020	-1.139
210	256	-.508	.195	.137	-1.944
210	257	-.523	.165	-.078	-1.206
210	258	-.511	.184	-.013	-1.264
210	259	-.514	.170	-.025	-1.306
210	260	-.518	.179	.042	-1.598
210	261	-.615	.201	.017	-1.636
210	262	-.598	.200	.104	-1.638
210	263	-.535	.235	.013	-2.656
210	264	-.477	.203	.036	-1.431
210	265	-.437	.151	-.019	-1.123
210	266	-.408	.154	.029	-1.151
210	267	-.464	.173	-.008	-1.390
210	268	-.449	.172	.002	-1.545
210	269	-.431	.154	.116	-1.309
210	270	-.359	.156	.096	-1.144
210	271	-.332	.154	.216	-1.219
210	272	-.298	.181	.231	-1.665
210	273	-.377	.195	.153	-1.249
210	274	-.303	.165	.198	-1.025
210	275	-.313	.158	.147	-1.272
210	276	-.243	.122	.267	-.723
210	277	-.244	.114	.166	-.612
210	278	-.235	.120	.135	-.671
210	279	-.279	.126	.104	-.694
210	280	-.162	.124	.306	-.561
210	281	-.292	.118	.193	-.745
210	282	-.305	.132	.277	-.830
210	283	-.300	.130	.257	-.797
210	284	-.277	.133	.296	-.859
210	285	-.331	.192	.408	-1.175
210	286	-.451	.214	.165	-1.504
210	301	-.072	.117	.337	-.658
210	302	.032	.140	.498	-.577
210	303	.113	.143	.631	-.424
210	304	.168	.137	.655	-.329
210	305	.206	.137	.689	-.178
210	306	.193	.150	.655	-.251
210	307	.199	.154	.676	-.255
210	308	.184	.154	.695	-.374
210	309	.104	.135	.647	-.334
210	310	.244	.163	1.040	-.242
210	311	.226	.144	.684	-.306
210	312	.220	.138	.678	-.205
210	313	.265	.145	.734	-.226
210	314	.256	.154	.804	-.265
210	315	.288	.169	.868	-.276
210	316	.377	.195	1.051	-.250
210	317	.269	.133	.717	-.270
210	318	.256	.138	.720	-.287
210	319	.345	.172	.931	-.261
210	320	.283	.140	.756	-.264
210	321	.261	.145	.800	-.168
210	322	.265	.147	.718	-.309
210	323	.318	.174	.959	-.324
210	324	.421	.185	1.160	-.301
210	325	.325	.156	.905	-.134
210	326	.308	.162	.906	-.177
210	327	.099	.130	.551	-.314
210	328	.331	.168	.957	-.191
210	329	.252	.123	.679	-.164
210	330	.239	.130	.720	-.194

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	331	.244	.126	.723	-.149
210	332	.278	.133	.771	-.128
210	333	.301	.145	.739	-.281
210	334	.277	.165	.798	-.351
210	335	.375	.166	.904	-.243
210	336	.399	.172	.964	-.220
210	337	.349	.172	.996	-.254
210	338	.334	.167	1.002	-.228
210	339	.326	.157	.948	-.123
210	340	.300	.149	.862	-.123
210	341	.312	.150	.776	-.075
210	342	.300	.158	.781	-.128
210	343	.340	.176	1.051	-.123
210	344	.176	.143	.659	-.264
210	345	.102	.117	.529	-.261
210	346	.279	.153	.896	-.157
210	347	.276	.139	.896	-.230
210	348	.274	.134	.769	-.145
210	349	.281	.126	.855	-.101
210	350	.299	.138	.916	-.129
210	351	.319	.150	.949	-.261
210	352	.316	.160	.972	-.227
210	353	.398	.151	.846	-.107
210	354	.391	.164	.887	-.149
210	355	.320	.176	.868	-.266
210	356	.329	.162	.839	-.255
210	357	.308	.140	.833	-.187
210	358	.252	.139	.765	-.242
210	359	.263	.137	.790	-.238
210	360	.272	.141	.812	-.268
210	361	.283	.143	.831	-.167
210	362	.075	.121	.554	-.297
210	363	.050	.111	.507	-.327
210	364	.234	.134	.681	-.215
210	365	.209	.120	.668	-.190
210	366	.193	.125	.617	-.230
210	367	.194	.121	.609	-.221
210	368	.226	.127	.615	-.192
210	369	.242	.158	.755	-.452
210	370	.216	.176	.795	-.429
210	371	.285	.157	.863	-.355
210	372	.291	.161	.845	-.257
210	373	.222	.175	.767	-.392
210	374	.223	.165	.723	-.406
210	375	.222	.137	.675	-.228
210	376	.199	.134	.665	-.286
210	377	.219	.149	.706	-.451
210	378	.211	.156	.722	-.493
210	379	.249	.168	.919	-.503
210	380	.069	.141	.554	-.587
210	381	-.001	.115	.498	-.431
210	382	.157	.132	.682	-.244
210	383	.160	.118	.645	-.189
210	384	.159	.117	.647	-.193
210	385	.222	.107	.598	-.076
210	386	.200	.137	.770	-.255
210	387	.173	.137	.700	-.349
210	388	.157	.145	.759	-.381
210	389	.221	.143	.785	-.255
210	390	.202	.156	.797	-.319
210	391	.124	.179	.831	-.394
210	392	.142	.167	.789	-.469
210	393	.143	.130	.639	-.325
210	394	.131	.132	.590	-.291
210	395	.139	.129	.574	-.264
210	396	.143	.133	.590	-.275
210	397	.154	.141	.673	-.363
210	398	-.038	.132	.432	-.576
210	399	-.115	.125	.317	-.750
210	400	.053	.122	.543	-.309
210	401	.063	.119	.640	-.326
210	402	.053	.121	.559	-.359
210	403	.050	.122	.545	-.339
210	404	.060	.125	.575	-.350
210	405	.058	.122	.526	-.433
210	406	.038	.130	.544	-.488
210	407	.028	.125	.474	-.423
210	408	.005	.123	.434	-.417
210	409	-.049	.141	.479	-.568
210	410	-.036	.146	.584	-.584
210	411	-.005	.121	.546	-.478
210	412	.001	.114	.516	-.375
210	413	.005	.110	.474	-.355
210	414	-.009	.122	.438	-.424
210	415	-.013	.130	.533	-.458
210	416	-.126	.128	.335	-.673
210	417	-.161	.106	.202	-.519
210	418	-.050	.112	.345	-.413
210	419	-.034	.104	.332	-.382
210	420	-.036	.099	.321	-.358
210	421	-.033	.102	.391	-.364
210	422	-.035	.108	.339	-.403
210	423	.246	.092	.545	-.094
210	424	-.042	.109	.309	-.422
210	425	-.043	.100	.343	-.457
210	426	-.062	.108	.429	-.453
210	427	-.098	.117	.344	-.603
210	428	-.080	.114	.300	-.579
210	429	-.047	.100	.466	-.377
210	430	-.049	.105	.394	-.485
210	431	-.060	.098	.333	-.384
210	432	-.045	.110	.459	-.385
210	433	-.052	.111	.409	-.443
210	434	-.156	.123	.348	-.629
210	435	-.070	.117	.371	-.503
210	436	.013	.119	.461	-.356
210	437	.068	.106	.455	-.304
210	438	.057	.113	.457	-.345
210	439	.066	.111	.430	-.305
210	440	.060	.107	.455	-.272
210	441	.023	.095	.434	-.316
210	442	-.068	.104	.275	-.447
210	443	-.044	.096	.324	-.403
210	444	-.027	.094	.333	-.374
210	445	-.031	.097	.252	-.441
210	446	-.041	.106	.289	-.526
210	447	.032	.103	.424	-.328
210	448	.055	.106	.469	-.301
210	449	.035	.104	.376	-.280
210	450	.039	.113	.496	-.287
210	451	.002	.114	.430	-.326
210	452	-.085	.115	.362	-.436
210	453	.023	.116	.450	-.309
210	454	.088	.121	.511	-.274
210	455	.041	.111	.460	-.280
210	456	.061	.122	.562	-.344
210	457	-.055	.113	.377	-.440
210	801	-.210	.100	.174	-.634
210	901	-.432	.116	.001	-.926
210	902	-.398	.118	.015	-.963
210	903	-.437	.123	-.017	-.930
210	904	-.407	.112	-.014	-.838
210	905	-.444	.127	-.139	-1.191
210	906	-.449	.132	-.008	-1.284
210	907	-.441	.130	-.083	-1.296
210	908	-.424	.133	-.011	-1.176
210	909	-.437	.122	-.048	-1.273
210	910	-.396	.115	-.065	-.802
210	911	.231	.143	.893	-.234
210	912	.260	.146	.923	-.161
210	913	.272	.140	.806	-.142
210	914	.292	.151	.811	-.120
210	915	-.298	.116	.086	-.720
210	916	-.239	.125	.254	-.727
210	917	-.299	.140	.123	-.942
210	918	-.340	.193	.183	-1.807
210	919	-.347	.187	.088	-1.448
210	919	-.347	.187	.088	-1.448
210	920	-.389	.189	.088	-1.569
210	921	-.370	.167	.093	-1.589

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
210	922	-.007	.150	.638	-.503
210	923	-.417	.196	.177	-1.808
210	924	-.343	.164	.245	-1.039
210	925	-.203	.145	.386	-.842
210	926	-.395	.168	.113	-1.087
210	927	-.265	.176	.671	-.855
210	928	-.397	.170	.279	-1.132
210	929	-.293	.143	.757	-.177
220	1	-.545	.214	.013	-1.700
220	2	-.405	.166	.067	-1.223
220	3	-.391	.183	.170	-1.305
220	4	-.391	.170	.084	-1.236
220	5	-.177	.136	.435	-.681
220	6	-.188	.121	.208	-.700
220	7	-.251	.123	.183	-.753
220	8	-.244	.115	.110	-.638
220	9	-.221	.093	.081	-.536
220	10	-.131	.124	.277	-.596
220	11	-.248	.153	.266	-.964
220	12	-.138	.114	.285	-.521
220	13	-.360	.124	.040	-.890
220	14	-.275	.120	.121	-.718
220	15	-.282	.147	.270	-.973
220	16	-.305	.125	.148	-.793
220	101	-.319	.109	.031	-.751
220	102	-.328	.115	.042	-.815
220	103	-.385	.126	.043	-.906
220	104	-.347	.129	.085	-.991
220	105	-.320	.114	.049	-.696
220	106	-.328	.119	.057	-.728
220	107	-.378	.122	.011	-.790
220	108	-.377	.113	.037	-.723
220	109	-.351	.123	-.007	-.822
220	110	-.340	.118	.020	-.930
220	111	-.352	.126	.028	-.965
220	112	-.401	.132	-.010	-1.080
220	113	-.363	.130	-.001	-1.082
220	114	-.361	.128	.025	-.839
220	115	-.365	.130	.022	-.816
220	116	-.403	.130	.026	-.866
220	117	-.358	.128	.095	-.780
220	118	-.329	.118	.023	-.822
220	119	-.334	.125	.029	-.810
220	120	-.385	.131	.008	-.964
220	121	-.362	.139	.068	-1.029
220	122	-.345	.135	.104	-1.107
220	123	-.363	.145	.012	-1.178
220	124	-.413	.158	-.017	-1.365
220	125	-.303	.118	.119	-.650
220	126	-.309	.110	.151	-.676
220	127	-.325	.115	.136	-.730
220	128	-.374	.120	.117	-.790
220	129	-.329	.120	.178	-.743
220	130	-.309	.103	-.009	-.649
220	131	-.316	.107	.001	-.695
220	132	-.347	.107	.030	-.735
220	133	-.326	.111	-.001	-.674
220	134	-.313	.105	.055	-.834
220	135	-.322	.112	.051	-.864
220	136	-.352	.116	.049	-.912
220	137	-.334	.118	.046	-.742
220	138	-.360	.115	.008	-.900
220	139	-.361	.116	.014	-.930
220	141	-.348	.115	-.010	-.907
220	142	-.331	.115	.111	-.963
220	143	-.339	.129	.118	-1.049
220	144	-.392	.137	.085	-1.140
220	145	-.368	.145	.090	-1.273
220	146	-.344	.135	.036	-1.026
220	147	-.339	.135	.066	-1.000
220	148	-.381	.137	.025	-1.041
220	149	-.324	.118	.053	-.758
220	150	-.314	.108	.065	-.675
220	151	-.328	.116	.076	-.730
220	152	-.376	.117	.017	-.765
220	153	-.330	.115	.058	-.712
220	154	-.328	.113	.023	-.657
220	155	-.334	.120	.052	-.698
220	156	-.379	.120	.052	-.744
220	157	-.338	.121	.110	-.703
220	158	-.338	.101	.196	-.692
220	159	-.341	.111	.069	-.733
220	160	-.394	.111	-.032	-.781
220	161	-.389	.119	-.005	-.964
220	162	-.395	.119	.038	-.815
220	163	-.396	.124	.083	-.967
220	164	-.344	.137	.088	-.992
220	165	-.368	.147	.081	-1.091
220	166	-.369	.130	.029	-1.136
220	167	-.408	.151	.062	-1.325
220	168	-.366	.147	.096	-1.383
220	169	-.386	.153	.060	-1.450
220	170	-.391	.144	-.035	-1.447
220	171	-.375	.112	.058	-.973
220	172	-.336	.108	.094	-.908
220	173	-.367	.113	.034	-.959
220	174	-.384	.105	-.053	-.871
220	175	-.397	.109	-.044	-.786
220	176	-.355	.105	-.019	-.721
220	177	-.380	.108	-.036	-.745
220	178	-.364	.105	.067	-.804
220	179	-.381	.112	.090	-.857
220	180	-.346	.111	.112	-.811
220	181	-.377	.118	.115	-.843
220	182	-.389	.108	-.055	-.840
220	183	-.411	.115	.050	-.819
220	184	-.394	.121	.014	-.805
220	185	-.410	.121	.003	-.831
220	186	-.405	.128	-.037	-.990
220	187	-.417	.140	.040	-1.213
220	188	-.372	.144	.089	-1.120
220	189	-.397	.153	.055	-1.349
220	190	-.398	.127	-.018	-1.437
220	191	-.437	.149	.058	-1.865
220	192	-.394	.140	.072	-1.699
220	193	-.416	.144	-.014	-1.634
220	194	-.429	.152	-.002	-1.303
220	195	-.408	.124	.035	-.954
220	196	-.369	.121	.055	-.920
220	197	-.399	.129	.066	-1.052
220	198	-.407	.124	-.077	-1.211
220	199	-.420	.127	-.076	-1.126
220	200	-.377	.120	-.050	-.981
220	201	-.402	.119	-.070	-1.130
220	202	-.416	.114	.008	-.862
220	203	-.450	.129	.025	-1.245
220	204	-.422	.132	.041	-1.267
220	205	-.467	.150	.047	-1.168
220	206	-.474	.144	.007	-1.096
220	207	-.527	.170	-.001	-1.467
220	208	-.507	.136	-.126	-1.303
220	209	-.483	.160	.019	-1.442
220	210	-.471	.145	-.053	-1.307
220	211	-.493	.157	-.042	-1.651
220	212	-.457	.156	-.016	-1.543
220	213	-.506	.170	-.038	-1.618
220	214	-.486	.152	-.083	-1.305
220	215	-.517	.172	-.089	-1.711
220	216	-.516	.174	-.078	-1.570
220	217	-.434	.160	.082	-1.399
220	218	-.437	.147	-.009	-1.255
220	219	-.471	.168	.060	-1.629
220	220	-.434	.174	.007	-2.145
220	221	-.445	.167	-.011	-2.040
220	222	-.431	.132	.023	-1.109
220	223	-.455	.140	-.020	-1.209
220	224	-.420	.126	-.009	-.916
220	225	-.456	.134	.037	-1.060
220	226	-.456	.117	.016	-.951
220	227	-.498	.138	.018	-1.106

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	228	-.475	.145	-.018	-1.209
220	229	-.507	.142	-.079	-1.162
220	230	-.526	.142	-.139	-1.215
220	231	-.544	.156	-.062	-1.592
220	232	-.505	.157	.026	-1.314
220	233	-.530	.167	-.068	-1.879
220	234	-.508	.156	-.062	-1.462
220	235	-.529	.171	-.039	-1.452
220	236	-.491	.164	-.001	-1.335
220	237	-.535	.176	.024	-1.451
220	238	-.541	.184	-.048	-1.685
220	239	-.646	.198	-.111	-1.539
220	240	-.590	.188	-.122	-1.372
220	241	-.460	.149	-.009	-1.321
220	242	-.434	.159	.046	-1.577
220	243	-.507	.172	.014	-1.435
220	244	-.459	.165	.039	-1.419
220	245	-.474	.163	-.054	-1.758
220	246	-.405	.168	.062	-2.508
220	247	-.476	.168	-.039	-1.900
220	248	-.440	.145	.002	-1.142
220	249	-.491	.166	-.038	-1.242
220	250	-.475	.177	-.026	-1.222
220	251	-.532	.176	-.053	-1.354
220	252	-.495	.183	-.025	-1.570
220	253	-.475	.137	.084	-1.118
220	254	-.431	.137	.079	-.983
220	255	-.429	.129	-.022	-1.121
220	256	-.474	.147	-.077	-1.282
220	257	-.498	.145	-.073	-1.094
220	258	-.478	.160	.008	-1.218
220	259	-.516	.152	-.047	-1.085
220	260	-.476	.162	-.003	-1.440
220	261	-.584	.195	.013	-2.031
220	262	-.564	.191	.056	-1.890
220	263	-.505	.200	.039	-1.593
220	264	-.431	.171	.071	-1.246
220	265	-.410	.133	-.049	-1.124
220	266	-.377	.139	-.005	-1.071
220	267	-.459	.162	-.079	-1.555
220	268	-.427	.152	.019	-1.168
220	269	-.399	.141	.049	-1.318
220	270	-.366	.150	.134	-.915
220	271	-.424	.154	.122	-1.018
220	272	-.418	.190	.199	-1.341
220	273	-.467	.213	.100	-1.761
220	274	-.366	.179	.163	-1.376
220	275	-.414	.204	.159	-1.562
220	276	-.296	.148	.159	-.913
220	277	-.286	.118	.141	-.837
220	278	-.269	.120	.082	-.737
220	279	-.354	.127	.029	-.879
220	280	-.164	.119	.210	-.652
220	281	-.273	.111	.132	-.630
220	282	-.281	.123	.162	-.743
220	283	-.270	.128	.249	-.739
220	284	-.216	.132	.373	-.695
220	285	-.265	.174	.384	-.955
220	286	-.335	.181	.264	-1.089
220	301	-.076	.124	.346	-.546
220	302	.034	.142	.561	-.528
220	303	.105	.144	.681	-.358
220	304	.161	.135	.675	-.261
220	305	.205	.136	.659	-.209
220	306	.194	.144	.730	-.276
220	307	.194	.147	.754	-.327
220	308	.182	.147	.740	-.308
220	309	.112	.146	.636	-.337
220	310	.267	.158	.862	-.173
220	311	.248	.147	.790	-.172
220	312	.264	.153	.756	-.218
220	313	.277	.132	.769	-.302
220	314	.278	.143	.822	-.245
220	315	.310	.159	.900	-.213
220	316	.399	.182	1.021	-.190
220	317	.277	.133	.767	-.251
220	318	.268	.139	.766	-.223
220	319	.356	.173	.992	-.150
220	320	.291	.158	.728	-.170
220	321	.275	.158	.802	-.214
220	322	.257	.146	.828	-.260
220	323	.307	.170	.834	-.224
220	324	.396	.178	1.034	-.176
220	325	.303	.141	.765	-.174
220	326	.289	.145	.777	-.200
220	327	.072	.118	.515	-.428
220	328	.299	.148	.871	-.263
220	329	.282	.136	.680	-.163
220	330	.276	.143	.700	-.192
220	331	.275	.138	.690	-.167
220	332	.314	.144	.781	-.151
220	333	.315	.133	.769	-.135
220	334	.299	.151	.822	-.198
220	335	.397	.154	.913	-.131
220	336	.422	.161	.996	-.101
220	337	.361	.161	.853	-.081
220	338	.350	.157	.831	-.109
220	339	.339	.149	.815	-.130
220	340	.311	.142	.753	-.131
220	341	.317	.149	.810	-.165
220	342	.308	.157	.834	-.221
220	343	.345	.175	1.058	-.208
220	344	.177	.141	.717	-.309
220	345	.094	.112	.480	-.285
220	346	.279	.139	.732	-.162
220	347	.281	.140	.773	-.114
220	348	.273	.125	.702	-.117
220	349	.254	.130	.735	-.131
220	350	.274	.142	.826	-.154
220	351	.285	.162	.890	-.411
220	352	.283	.172	.940	-.394
220	353	.383	.156	.931	-.069
220	354	.394	.175	1.081	-.195
220	355	.333	.191	1.030	-.320
220	356	.341	.175	.979	-.245
220	357	.310	.152	.819	-.152
220	358	.258	.148	.737	-.172
220	359	.266	.146	.737	-.166
220	360	.275	.147	.754	-.164
220	361	.320	.152	.875	-.133
220	362	.094	.127	.517	-.336
220	363	.070	.119	.568	-.376
220	364	.275	.139	.809	-.229
220	365	.251	.127	.750	-.135
220	366	.241	.132	.754	-.153
220	367	.240	.130	.723	-.140
220	368	.278	.135	.793	-.121
220	369	.274	.134	.706	-.324
220	370	.256	.152	.754	-.292
220	371	.328	.147	.873	-.172
220	372	.335	.160	.914	-.182
220	373	.255	.177	.843	-.306
220	374	.252	.170	.818	-.319
220	375	.241	.147	.759	-.157
220	376	.221	.136	.690	-.161
220	377	.206	.120	.533	-.177
220	378	.192	.136	.590	-.233
220	379	.256	.155	.749	-.222
220	380	.074	.122	.438	-.349
220	381	.035	.112	.507	-.384
220	382	.181	.146	.668	-.253
220	383	.200	.135	.606	-.173
220	384	.192	.134	.618	-.198
220	385	.209	.122	.781	-.158
220	386	.217	.134	.896	-.174
220	387	.248	.151	.859	-.151
220	388	.234	.159	.838	-.162
220	389	.213	.143	.847	-.221
220	390	.126	.148	.688	-.334
220	391	.002	.159	.504	-.516

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
220	392	.022	.164	.495	-.528
220	393	.069	.125	.509	-.513
220	394	.062	.131	.524	-.359
220	395	.104	.132	.552	-.362
220	396	.101	.135	.582	-.362
220	397	.145	.134	.676	-.287
220	398	-.054	.132	.504	-.485
220	399	-.088	.123	.324	-.609
220	400	.062	.123	.528	-.455
220	401	.072	.116	.488	-.267
220	402	.052	.127	.533	-.346
220	403	.072	.128	.529	-.326
220	404	.081	.131	.561	-.309
220	405	.112	.125	.641	-.342
220	406	.080	.140	.644	-.387
220	407	.052	.134	.571	-.359
220	408	-.013	.122	.503	-.356
220	409	-.144	.128	.366	-.583
220	410	-.132	.148	.383	-.628
220	411	-.040	.119	.380	-.659
220	412	-.025	.107	.381	-.361
220	413	-.005	.103	.287	-.377
220	414	-.031	.104	.392	-.367
220	415	.022	.130	.421	-.489
220	416	-.115	.121	.251	-.612
220	417	-.143	.098	.239	-.457
220	418	-.054	.109	.393	-.399
220	419	-.023	.102	.421	-.342
220	420	-.033	.099	.353	-.357
220	421	-.036	.099	.333	-.348
220	422	-.056	.114	.402	-.518
220	423	.246	.096	.618	-.173
220	424	-.053	.114	.432	-.514
220	425	-.060	.104	.278	-.393
220	426	-.095	.115	.337	-.489
220	427	-.125	.120	.396	-.595
220	428	-.112	.120	.398	-.551
220	429	-.077	.090	.226	-.443
220	430	-.077	.097	.303	-.441
220	431	-.070	.092	.297	-.373
220	432	-.046	.101	.367	-.383
220	433	-.034	.105	.376	-.451
220	434	-.152	.115	.249	-.574
220	435	-.033	.131	.506	-.715
220	436	.014	.117	.436	-.388
220	437	.067	.101	.536	-.234
220	438	.053	.116	.546	-.265
220	439	.085	.114	.531	-.367
220	440	.057	.109	.459	-.285
220	441	.011	.092	.327	-.279
220	442	-.096	.117	.243	-.577
220	443	-.027	.101	.343	-.375
220	444	-.047	.103	.272	-.424
220	445	-.065	.100	.345	-.483
220	446	-.067	.112	.407	-.606
220	447	.020	.113	.477	-.327
220	448	.038	.118	.484	-.315
220	449	.030	.107	.454	-.300
220	450	.015	.120	.490	-.359
220	451	-.021	.110	.417	-.393
220	452	-.090	.109	.294	-.478
220	453	.003	.111	.465	-.351
220	454	.065	.124	.638	-.355
220	455	-.034	.112	.343	-.426
220	456	-.003	.115	.383	-.389
220	457	-.068	.105	.309	-.394
220	801	-.215	.099	.183	-.578
220	901	-.400	.128	.013	-.951
220	902	-.371	.133	.054	-.923
220	903	-.440	.139	-.022	-1.316
220	904	-.383	.125	-.005	-.904
220	905	-.381	.120	.068	-.893
220	906	-.400	.126	.023	-1.004
220	907	-.401	.122	.026	-1.099
220	908	-.349	.118	.037	-1.002
220	909	-.387	.115	.028	-.933
220	910	-.372	.116	.120	-.842
220	911	.234	.162	.863	-.276
220	912	.271	.150	.825	-.242
220	913	.269	.151	.766	-.198
220	914	.290	.147	.768	-.149
220	915	-.343	.118	.113	-.729
220	916	-.264	.121	.260	-.740
220	917	-.380	.143	.100	-.894
220	918	-.429	.199	.083	-1.890
220	919	-.380	.160	.096	-1.739
220	919	-.380	.160	.096	-1.739
220	920	-.429	.166	.088	-1.432
220	921	-.416	.157	-.002	-1.144
220	922	-.045	.145	.630	-.542
220	923	-.479	.191	.011	-1.975
220	924	-.386	.158	.247	-1.428
220	925	-.165	.136	.427	-.586
220	926	-.343	.143	.092	-1.027
220	927	-.216	.182	.615	-.882
220	928	-.336	.144	.175	-.918
220	929	.268	.129	.720	-.091
230	1	-.429	.188	.181	-1.405
230	2	-.352	.159	.158	-1.294
230	3	-.358	.170	.224	-1.148
230	4	-.273	.142	.141	-.845
230	5	-.189	.123	.350	-.565
230	6	-.217	.120	.184	-.617
230	7	-.288	.125	.159	-.785
230	8	-.240	.104	.110	-.657
230	9	-.222	.112	.222	-.801
230	10	-.126	.143	.379	-.659
230	11	-.238	.180	.356	-.921
230	12	-.138	.132	.357	-.590
230	13	-.343	.122	.036	-.793
230	14	-.265	.114	.122	-.801
230	15	-.330	.152	.116	-.922
230	16	-.298	.119	.079	-.801
230	101	-.307	.108	.046	-.666
230	102	-.308	.113	.049	-.681
230	103	-.370	.122	.010	-.818
230	104	-.324	.123	.049	-.871
230	105	-.302	.117	.146	-.766
230	106	-.305	.123	.140	-.800
230	107	-.356	.127	.044	-.940
230	108	-.330	.111	.045	-.734
230	109	-.319	.127	.036	-.825
230	110	-.326	.116	.047	-.822
230	111	-.334	.123	.048	-.871
230	112	-.404	.139	.076	-1.034
230	113	-.359	.137	.111	-.906
230	114	-.364	.138	.044	-1.009
230	115	-.359	.139	.062	-1.018
230	116	-.400	.139	.047	-1.059
230	117	-.351	.141	.123	-1.061
230	118	-.338	.131	.083	-.967
230	119	-.340	.139	.100	-1.106
230	120	-.397	.145	.054	-1.079
230	121	-.361	.153	.165	-1.124
230	122	-.373	.141	.067	-.972
230	123	-.425	.167	.064	-1.285
230	124	-.502	.210	.012	-1.867
230	125	-.290	.109	.124	-.677
230	126	-.291	.112	.061	-.694
230	127	-.298	.117	.041	-.706
230	128	-.349	.121	.009	-.771
230	129	-.299	.121	.052	-.725
230	130	-.298	.102	.011	-.659
230	131	-.298	.106	.023	-.719
230	132	-.303	.101	.054	-.689
230	133	-.306	.110	.035	-.762
230	134	-.315	.101	.003	-.668
230	135	-.324	.109	.032	-.754
230	136	-.350	.123	-.012	-1.017
230	137	-.357	.121	-.024	-.851

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
230	138	-.396	.144	-.031	-1.106
230	139	-.391	.146	-.026	-1.074
230	141	-.358	.140	.026	-.927
230	142	-.352	.141	.042	-1.240
230	143	-.357	.156	.093	-1.159
230	144	-.419	.166	.055	-1.299
230	145	-.400	.177	.077	-1.363
230	146	-.400	.166	.108	-1.639
230	147	-.401	.178	.056	-1.291
230	148	-.445	.179	.017	-1.308
230	149	-.306	.106	.017	-.715
230	150	-.307	.102	.036	-.658
230	151	-.313	.110	.094	-.711
230	152	-.363	.110	.024	-.757
230	153	-.312	.108	.059	-.705
230	154	-.306	.102	.041	-.747
230	155	-.305	.111	.078	-.797
230	156	-.356	.110	.017	-.838
230	157	-.316	.113	.066	-.752
230	158	-.330	.114	.019	-.783
230	159	-.355	.137	.037	-1.221
230	160	-.415	.134	.026	-1.251
230	161	-.408	.147	.032	-1.699
230	162	-.389	.129	-.014	-1.126
230	163	-.386	.127	-.009	-1.316
230	164	-.331	.136	.075	-1.236
230	165	-.357	.149	.087	-1.162
230	166	-.377	.158	.058	-1.440
230	167	-.438	.192	.062	-1.931
230	168	-.419	.195	.129	-1.835
230	169	-.457	.220	.048	-1.480
230	170	-.423	.172	-.038	-1.221
230	171	-.335	.102	-.014	-.657
230	172	-.299	.097	.001	-.605
230	173	-.327	.100	.003	-.661
230	174	-.326	.095	-.020	-.727
230	175	-.342	.101	-.009	-.757
230	176	-.304	.098	.032	-.668
230	177	-.325	.101	.017	-.750
230	178	-.335	.095	.004	-.738
230	179	-.357	.104	.009	-.775
230	180	-.330	.105	.036	-.738
230	181	-.366	.115	.141	-.833
230	182	-.380	.124	.029	-.844
230	183	-.407	.128	.058	-.853
230	184	-.406	.143	-.026	-1.066
230	185	-.420	.141	-.031	-1.042
230	186	-.409	.138	-.060	-.999
230	187	-.420	.155	-.015	-1.299
230	188	-.378	.162	.072	-1.525
230	189	-.403	.172	.134	-1.718
230	190	-.406	.152	.010	-1.387
230	191	-.456	.182	.008	-1.606
230	192	-.421	.178	.054	-1.390
230	193	-.472	.202	.043	-1.680
230	194	-.505	.218	-.001	-1.833
230	195	-.362	.105	.009	-.704
230	196	-.327	.102	.007	-.694
230	197	-.353	.106	-.023	-.732
230	198	-.357	.095	-.009	-.690
230	199	-.373	.102	.012	-.718
230	200	-.335	.099	.045	-.667
230	201	-.357	.101	.025	-.693
230	202	-.368	.099	-.033	-.677
230	203	-.404	.112	-.045	-.786
230	204	-.387	.116	-.051	-.811
230	205	-.441	.143	-.011	-1.057
230	206	-.444	.126	-.048	-.976
230	207	-.499	.158	-.024	-1.311
230	208	-.469	.142	-.101	-1.120
230	209	-.455	.146	-.015	-1.348
230	210	-.438	.151	.055	-1.351
230	211	-.461	.168	.056	-1.726
230	212	-.429	.168	.132	-1.401
230	213	-.481	.184	.018	-1.494
230	214	-.493	.172	.007	-1.418
230	215	-.563	.219	-.068	-1.662
230	216	-.567	.207	-.056	-1.701
230	217	-.355	.118	-.001	-1.047
230	218	-.365	.112	-.008	-.752
230	219	-.390	.122	-.007	-.837
230	220	-.356	.120	.008	-.819
230	221	-.369	.119	.002	-.876
230	222	-.370	.106	-.013	-.753
230	223	-.388	.116	-.012	-.759
230	224	-.358	.114	.018	-.844
230	225	-.394	.123	.022	-.880
230	226	-.427	.126	-.069	-1.183
230	227	-.471	.147	-.071	-1.206
230	228	-.464	.154	-.088	-1.303
230	229	-.492	.151	-.084	-1.153
230	230	-.526	.154	-.046	-1.224
230	231	-.536	.165	-.015	-1.373
230	232	-.489	.163	.036	-1.607
230	233	-.509	.170	.048	-1.491
230	234	-.489	.152	-.038	-1.262
230	235	-.508	.171	.010	-1.447
230	236	-.476	.163	.023	-1.201
230	237	-.520	.175	.031	-1.247
230	238	-.512	.178	.060	-1.325
230	239	-.679	.201	-.040	-1.753
230	240	-.612	.189	.030	-1.754
230	241	-.400	.123	-.056	-.861
230	242	-.362	.127	.013	-.845
230	243	-.448	.139	-.060	-1.225
230	244	-.390	.132	-.015	-1.062
230	245	-.408	.129	-.006	-1.153
230	246	-.379	.153	.013	-1.505
230	247	-.460	.155	-.118	-1.414
230	248	-.395	.128	.010	-.938
230	249	-.455	.133	-.074	-1.246
230	250	-.422	.142	-.015	-1.186
230	251	-.501	.145	-.063	-1.102
230	252	-.447	.147	.016	-1.111
230	253	-.460	.135	-.021	-1.680
230	254	-.409	.139	.028	-1.679
230	255	-.447	.133	-.002	-1.101
230	256	-.440	.141	-.030	-1.231
230	257	-.487	.140	-.118	-1.070
230	258	-.453	.153	-.009	-1.213
230	259	-.494	.144	-.086	-1.150
230	260	-.444	.163	-.040	-1.247
230	261	-.534	.195	.084	-1.396
230	262	-.507	.186	.126	-1.344
230	263	-.468	.172	-.036	-1.768
230	264	-.383	.148	.020	-1.230
230	265	-.373	.120	.122	-.837
230	266	-.327	.121	.117	-.837
230	267	-.420	.138	-.012	-1.142
230	268	-.419	.137	-.015	-1.003
230	269	-.395	.130	.057	-1.011
230	270	-.326	.132	.124	-.792
230	271	-.411	.142	-.006	-.954
230	272	-.384	.160	.026	-1.101
230	273	-.404	.159	.062	-1.397
230	274	-.324	.140	.144	-.964
230	275	-.405	.167	.071	-1.333
230	276	-.295	.124	.053	-.903
230	277	-.309	.104	.080	-.714
230	278	-.276	.109	.102	-.676
230	279	-.379	.114	.012	-.780
230	280	-.139	.111	.284	-.510
230	281	-.274	.112	.061	-.877
230	282	-.291	.130	.052	-.861
230	283	-.243	.119	.204	-.734
230	284	-.159	.121	.369	-.669
230	285	-.167	.166	.456	-1.077
230	286	-.246	.192	.365	-1.020
230	301	.023	.137	.589	-.415
230	302	.118	.149	.713	-.389

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
230	303	.148	.152	.772	-.385
230	304	.184	.148	.730	-.345
230	305	.177	.127	.604	-.286
230	306	.143	.132	.611	-.239
230	307	.122	.130	.592	-.357
230	308	.096	.128	.601	-.361
230	309	.005	.124	.473	-.416
230	310	.364	.203	1.151	-.388
230	311	.248	.183	.966	-.326
230	312	.263	.146	.746	-.239
230	313	.234	.132	.684	-.200
230	314	.200	.129	.730	-.251
230	315	.162	.131	.690	-.251
230	316	.153	.131	.688	-.290
230	317	.336	.140	.847	-.175
230	318	.339	.148	.860	-.201
230	319	.369	.175	.951	-.200
230	320	.265	.176	.869	-.367
230	321	.248	.152	.779	-.281
230	322	.219	.148	.770	-.363
230	323	.192	.142	.761	-.278
230	324	.177	.146	.856	-.304
230	325	.099	.124	.468	-.314
230	326	.132	.129	.514	-.320
230	327	.107	.150	.557	-.379
230	328	.326	.167	.801	-.186
230	329	.303	.136	.697	-.171
230	330	.302	.142	.742	-.173
230	331	.318	.143	.772	-.151
230	332	.351	.148	.791	-.107
230	333	.386	.159	.906	-.063
230	334	.386	.172	.944	-.147
230	335	.314	.191	.874	-.526
230	336	.230	.172	.794	-.277
230	337	.054	.184	.508	-.852
230	338	.109	.151	.585	-.576
230	339	.118	.126	.517	-.389
230	340	.136	.116	.513	-.249
230	341	.187	.125	.615	-.208
230	342	.185	.131	.629	-.225
230	343	.252	.162	.916	-.229
230	344	.113	.127	.613	-.266
230	345	.140	.131	.689	-.300
230	346	.319	.151	.924	-.189
230	347	.313	.153	.969	-.194
230	348	.349	.143	.921	-.165
230	349	.325	.141	.794	-.077
230	350	.361	.153	.855	-.068
230	351	.363	.158	.858	-.098
230	352	.358	.159	.897	-.097
230	353	.250	.180	.838	-.410
230	354	.123	.166	.685	-.488
230	355	-.147	.177	.520	-.898
230	356	-.112	.191	.517	-.794
230	357	.074	.141	.448	-.676
230	358	.103	.113	.442	-.471
230	359	.141	.119	.536	-.314
230	360	.166	.122	.621	-.311
230	361	.186	.131	.596	-.281
230	362	.028	.115	.402	-.419
230	363	.067	.129	.491	-.432
230	364	.247	.137	.698	-.282
230	365	.280	.131	.722	-.199
230	366	.275	.134	.738	-.221
230	367	.289	.136	.774	-.182
230	368	.335	.142	.841	-.122
230	369	.332	.143	.801	-.134
230	370	.292	.153	.804	-.175
230	371	.167	.175	.819	-.414
230	372	.089	.150	.698	-.314
230	373	-.198	.152	.389	-.771
230	374	-.188	.171	.411	-.833
230	375	-.043	.160	.387	-.689
230	376	.040	.114	.382	-.522
230	377	.139	.114	.528	-.225
230	378	.131	.130	.652	-.289
230	379	.196	.145	.913	-.241
230	380	.040	.123	.509	-.350
230	381	.057	.123	.498	-.346
230	382	.194	.148	.782	-.265
230	383	.229	.144	.848	-.220
230	384	.221	.143	.789	-.201
230	385	.253	.135	.722	-.142
230	386	.250	.140	.758	-.210
230	387	.281	.155	.815	-.170
230	388	.234	.162	.847	-.265
230	389	.129	.150	.655	-.374
230	390	-.013	.143	.518	-.525
230	391	-.237	.153	.282	-.902
230	392	-.224	.171	.285	-.962
230	393	-.053	.146	.346	-.820
230	394	.013	.120	.418	-.509
230	395	.076	.123	.474	-.466
230	396	.087	.128	.571	-.500
230	397	.123	.128	.616	-.286
230	398	-.062	.124	.428	-.485
230	399	-.054	.136	.447	-.577
230	400	.093	.136	.587	-.291
230	401	.114	.116	.524	-.255
230	402	.087	.125	.553	-.303
230	403	.111	.129	.591	-.295
230	404	.128	.134	.666	-.300
230	405	.136	.132	.754	-.257
230	406	.081	.148	.804	-.364
230	407	-.009	.153	.633	-.616
230	408	-.089	.125	.349	-.518
230	409	-.305	.133	.180	-.793
230	410	-.308	.163	.291	-.871
230	411	-.145	.151	.319	-.741
230	412	-.065	.120	.295	-.650
230	413	-.019	.101	.333	-.368
230	414	-.035	.105	.351	-.466
230	415	.020	.131	.537	-.392
230	416	-.109	.115	.333	-.550
230	417	-.136	.117	.387	-.481
230	418	-.050	.134	.557	-.475
230	419	-.026	.128	.576	-.401
230	420	-.036	.124	.543	-.396
230	421	-.047	.103	.555	-.453
230	422	-.074	.122	.636	-.498
230	423	.229	.102	.746	-.138
230	424	-.092	.124	.546	-.529
230	425	-.112	.120	.280	-.696
230	426	-.158	.131	.263	-.598
230	427	-.230	.144	.239	-.777
230	428	-.205	.148	.254	-.782
230	429	-.129	.107	.237	-.528
230	430	-.108	.109	.281	-.453
230	431	-.092	.091	.337	-.423
230	432	-.065	.110	.387	-.424
230	433	-.038	.104	.401	-.426
230	434	-.143	.112	.320	-.534
230	435	-.025	.128	.438	-.672
230	436	.025	.113	.547	-.356
230	437	.063	.102	.468	-.316
230	438	.054	.119	.489	-.651
230	439	.080	.114	.596	-.312
230	440	.041	.109	.538	-.340
230	441	-.006	.104	.344	-.308
230	442	-.160	.129	.245	-.923
230	443	-.081	.109	.314	-.441
230	444	-.108	.110	.323	-.456
230	445	-.127	.106	.183	-.463
230	446	-.131	.117	.305	-.579
230	447	-.052	.111	.404	-.435
230	448	-.030	.113	.427	-.510
230	449	-.009	.095	.315	-.351
230	450	-.019	.107	.342	-.392
230	451	-.072	.104	.367	-.442
230	452	-.125	.103	.305	-.487

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
230	453	.013	.114	.436	-.486
230	454	.079	.121	.475	-.352
230	455	-.078	.125	.389	-.770
230	456	-.035	.117	.341	-.421
230	457	-.102	.094	.289	-.440
230	801	-.207	.095	.122	-.512
230	901	-.359	.119	-.007	-.836
230	902	-.331	.127	.007	-.856
230	903	-.412	.139	.044	-.969
230	904	-.344	.120	-.007	-.795
230	905	-.401	.127	.084	-.893
230	906	-.379	.128	-.003	-.912
230	907	-.433	.143	.120	-1.133
230	908	-.350	.130	.102	-.889
230	909	-.375	.118	-.004	-.835
230	910	-.361	.120	.037	-.865
230	911	.175	.159	.718	-.350
230	912	.219	.133	.684	-.246
230	913	.207	.156	.741	-.282
230	914	.247	.135	.739	-.145
230	915	-.356	.107	.009	-.727
230	916	-.273	.115	.117	-.734
230	917	-.352	.123	.132	-.825
230	918	-.356	.146	.093	-1.112
230	919	-.340	.143	.199	-.999
230	919	-.340	.143	.199	-.999
230	920	-.363	.138	.094	-1.241
230	921	-.359	.145	.121	-1.193
230	922	-.036	.135	.481	-.676
230	923	-.418	.151	-.024	-1.458
230	924	-.335	.134	.105	-1.047
230	925	-.119	.129	.405	-.561
230	926	-.320	.130	.103	-.850
230	927	-.130	.196	.770	-.755
230	928	-.302	.136	.108	-.899
230	929	.227	.130	.651	-.172
240	1	-.369	.175	.081	-1.366
240	2	-.332	.168	.184	-1.303
240	3	-.337	.151	.079	-.987
240	4	-.184	.121	.157	-.862
240	5	-.225	.111	.140	-.677
240	6	-.252	.113	.145	-.725
240	7	-.333	.116	.079	-.836
240	8	-.286	.106	.031	-.724
240	9	-.252	.096	.103	-.591
240	10	-.144	.122	.241	-.603
240	11	-.293	.158	.331	-.954
240	12	-.152	.118	.269	-.553
240	13	-.360	.123	.018	-.850
240	14	-.273	.107	.114	-.667
240	15	-.387	.169	.056	-1.281
240	16	-.319	.136	.125	-1.036
240	101	-.312	.116	.113	-.842
240	102	-.306	.120	.141	-.854
240	103	-.372	.129	.107	-.915
240	104	-.322	.128	.142	-.865
240	105	-.302	.104	.028	-.671
240	106	-.296	.109	.045	-.686
240	107	-.349	.113	-.003	-.788
240	108	-.329	.119	.012	-.856
240	109	-.309	.119	.087	-.756
240	110	-.335	.123	.076	-1.076
240	111	-.337	.132	.083	-1.149
240	112	-.414	.152	-.014	-1.261
240	113	-.360	.145	.020	-1.271
240	114	-.386	.149	.059	-1.007
240	115	-.375	.153	.104	-1.080
240	116	-.422	.160	.073	-1.213
240	117	-.376	.162	.089	-1.313
240	118	-.385	.151	.179	-1.183
240	119	-.384	.152	.103	-1.082
240	120	-.447	.157	.017	-1.224
240	121	-.385	.148	.107	-.881
240	122	-.383	.135	.084	-.930
240	123	-.457	.183	.216	-1.106
240	124	-.621	.248	.022	-1.769
240	125	-.289	.114	.105	-.660
240	126	-.290	.105	.063	-.665
240	127	-.289	.110	.077	-.682
240	128	-.342	.114	.035	-.750
240	129	-.290	.113	.084	-.692
240	130	-.288	.110	.059	-.703
240	131	-.279	.113	.081	-.705
240	132	-.304	.103	.034	-.732
240	133	-.286	.120	.116	-.718
240	134	-.327	.104	-.008	-.683
240	135	-.335	.115	.002	-.764
240	136	-.379	.133	-.017	-1.252
240	137	-.372	.130	.028	-1.016
240	138	-.406	.143	-.036	-1.140
240	139	-.395	.145	.003	-1.111
240	141	-.364	.142	.009	-1.083
240	142	-.365	.143	.129	-1.281
240	143	-.361	.154	.137	-1.234
240	144	-.431	.166	.074	-1.256
240	145	-.419	.178	.145	-1.234
240	146	-.427	.182	.226	-1.285
240	147	-.463	.219	.050	-1.615
240	148	-.513	.222	.017	-1.594
240	149	-.280	.107	.114	-.749
240	150	-.297	.109	.083	-.703
240	151	-.295	.115	.125	-.731
240	152	-.351	.116	.069	-.780
240	153	-.294	.113	.079	-.724
240	154	-.301	.100	.039	-.682
240	155	-.290	.107	.074	-.709
240	156	-.350	.107	.036	-.766
240	157	-.312	.109	.116	-.723
240	158	-.334	.107	.039	-.744
240	159	-.366	.127	.078	-.889
240	160	-.422	.123	-.003	-.921
240	161	-.400	.137	.057	-1.067
240	162	-.423	.131	-.024	-1.150
240	163	-.401	.130	.010	-1.097
240	164	-.358	.155	.103	-1.190
240	165	-.385	.170	.110	-1.363
240	166	-.395	.153	.074	-1.212
240	167	-.438	.182	.112	-1.705
240	168	-.417	.188	.077	-1.454
240	169	-.462	.214	.058	-2.106
240	170	-.476	.204	.026	-1.604
240	171	-.328	.102	.024	-.635
240	172	-.298	.098	.011	-.586
240	173	-.321	.102	-.019	-.623
240	174	-.339	.094	-.031	-.666
240	175	-.339	.099	.022	-.693
240	176	-.305	.097	.038	-.654
240	177	-.323	.100	.008	-.671
240	178	-.323	.097	-.020	-.639
240	179	-.337	.105	.024	-.692
240	180	-.321	.107	.058	-.697
240	181	-.360	.117	.002	-.819
240	182	-.426	.131	-.063	-1.002
240	183	-.431	.128	-.060	-.927
240	184	-.428	.141	-.055	-1.160
240	185	-.442	.140	-.046	-1.147
240	186	-.427	.125	-.058	-1.101
240	187	-.418	.140	.018	-1.257
240	188	-.382	.147	.091	-1.439
240	189	-.405	.160	.152	-1.451
240	190	-.417	.158	.091	-1.498
240	191	-.463	.190	.110	-1.751
240	192	-.436	.188	.147	-1.650
240	193	-.478	.211	.004	-2.146
240	194	-.499	.210	-.078	-1.674
240	195	-.348	.101	.024	-.743
240	196	-.319	.098	.037	-.708
240	197	-.341	.103	.033	-.738
240	198	-.348	.103	.008	-.825
240	199	-.352	.109	.070	-.800

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	200	-.321	.106	.058	-.738
240	201	-.339	.108	.045	-.738
240	202	-.366	.100	-.015	-.696
240	203	-.393	.113	.047	-.756
240	204	-.384	.119	.052	-.767
240	205	-.436	.142	.065	-1.101
240	206	-.437	.128	.008	-.983
240	207	-.473	.156	.035	-1.253
240	208	-.445	.141	-.005	-1.058
240	209	-.434	.144	.021	-1.378
240	210	-.455	.148	-.039	-1.193
240	211	-.466	.160	.006	-1.447
240	212	-.444	.164	.054	-1.489
240	213	-.501	.184	.174	-1.484
240	214	-.511	.179	-.013	-1.771
240	215	-.547	.216	-.056	-1.900
240	216	-.521	.200	-.048	-1.504
240	217	-.366	.119	-.009	-1.231
240	218	-.387	.118	-.039	-1.060
240	219	-.404	.122	-.029	-.947
240	220	-.376	.120	.002	-.902
240	221	-.383	.117	-.018	-.915
240	222	-.372	.115	-.056	-.966
240	223	-.381	.121	-.052	-.972
240	224	-.351	.115	-.051	-.898
240	225	-.378	.117	-.045	-.845
240	226	-.408	.110	-.033	-.773
240	227	-.451	.132	-.061	-.892
240	228	-.468	.148	-.072	-1.098
240	229	-.476	.145	-.063	-1.145
240	230	-.523	.142	-.082	-1.176
240	231	-.525	.152	-.020	-1.172
240	232	-.483	.147	-.027	-1.569
240	233	-.495	.156	.010	-1.407
240	234	-.511	.163	-.033	-1.360
240	235	-.521	.179	-.008	-1.455
240	236	-.500	.172	-.001	-1.300
240	237	-.544	.187	.048	-1.420
240	238	-.527	.191	.043	-1.481
240	239	-.710	.233	.001	-1.860
240	240	-.621	.217	.055	-1.691
240	241	-.446	.130	-.005	-1.057
240	242	-.383	.134	.054	-1.061
240	243	-.497	.146	-.016	-1.238
240	244	-.418	.135	.025	-1.197
240	245	-.389	.131	-.053	-1.315
240	246	-.402	.141	.026	-1.286
240	247	-.506	.149	-.062	-1.422
240	248	-.440	.140	-.043	-1.108
240	249	-.503	.139	-.065	-1.513
240	250	-.441	.141	-.007	-1.089
240	251	-.554	.147	-.051	-1.529
240	252	-.471	.140	-.078	-1.247
240	253	-.511	.141	-.100	-1.229
240	254	-.436	.145	-.028	-1.550
240	255	-.455	.131	-.053	-1.269
240	256	-.485	.165	-.024	-1.501
240	257	-.565	.151	-.095	-1.288
240	258	-.502	.162	.049	-1.338
240	259	-.581	.160	-.042	-1.339
240	260	-.486	.169	-.017	-1.148
240	261	-.661	.228	.072	-1.658
240	262	-.612	.219	.210	-1.646
240	263	-.515	.178	-.019	-1.474
240	264	-.406	.151	.035	-1.011
240	265	-.444	.130	-.078	-1.110
240	266	-.368	.129	-.004	-.995
240	267	-.486	.149	-.084	-1.576
240	268	-.402	.133	-.008	-.961
240	269	-.455	.127	-.065	-1.007
240	270	-.352	.130	.217	-.965
240	271	-.485	.152	-.010	-1.511
240	272	-.423	.153	.034	-1.158
240	273	-.454	.149	-.048	-1.160
240	274	-.369	.139	.046	-.935
240	275	-.507	.174	.031	-1.362
240	276	-.359	.124	.070	-.795
240	277	-.397	.119	-.009	-.829
240	278	-.332	.122	.033	-.809
240	279	-.466	.131	-.056	-1.003
240	280	-.183	.127	.267	-.716
240	281	-.384	.144	.002	-.921
240	282	-.382	.157	.049	-.996
240	283	-.346	.151	.100	-.928
240	284	-.239	.150	.268	-.800
240	285	-.256	.231	.582	-1.365
240	286	-.361	.234	.391	-1.393
240	301	.068	.145	.618	-.643
240	302	.149	.156	.680	-.563
240	303	.141	.157	.626	-.426
240	304	.171	.146	.636	-.347
240	305	.137	.125	.629	-.305
240	306	.096	.126	.537	-.355
240	307	.059	.124	.490	-.410
240	308	.045	.121	.451	-.458
240	309	-.069	.111	.278	-.438
240	310	.336	.191	.992	-.406
240	311	.206	.194	.903	-.487
240	312	.217	.130	.715	-.183
240	313	.185	.133	.636	-.215
240	314	.149	.126	.564	-.259
240	315	.079	.126	.574	-.320
240	316	.064	.121	.568	-.311
240	317	.310	.154	.876	-.113
240	318	.307	.161	.876	-.169
240	319	.236	.183	.916	-.363
240	320	.217	.174	.939	-.340
240	321	.173	.148	.830	-.316
240	322	.134	.133	.943	-.331
240	323	.098	.131	.602	-.365
240	324	.052	.138	.590	-.436
240	325	-.017	.120	.406	-.461
240	326	.055	.120	.473	-.302
240	327	.113	.147	.645	-.354
240	328	.334	.160	.889	-.125
240	329	.328	.148	.872	-.142
240	330	.338	.152	.830	-.140
240	331	.352	.156	.870	-.121
240	332	.378	.158	1.023	-.099
240	333	.355	.155	.894	-.128
240	334	.335	.165	.923	-.154
240	335	.166	.185	.844	-.528
240	336	.070	.150	.619	-.436
240	337	-.328	.206	.219	-1.136
240	338	-.054	.185	.472	-.838
240	339	-.017	.128	.403	-.473
240	340	.043	.114	.419	-.343
240	341	.080	.117	.436	-.285
240	342	.092	.122	.508	-.307
240	343	.163	.149	.699	-.339
240	344	.051	.120	.496	-.358
240	345	.133	.134	.674	-.353
240	346	.321	.150	.965	-.164
240	347	.367	.158	.950	-.191
240	348	.363	.146	1.016	-.049
240	349	.342	.143	.925	-.030
240	350	.388	.153	1.025	-.027
240	351	.366	.157	1.069	-.064
240	352	.324	.157	.984	-.094
240	353	.080	.204	.673	-.658
240	354	-.028	.154	.530	-.623
240	355	-.353	.155	.228	-1.043
240	356	-.319	.163	.350	-.951
240	357	-.187	.188	.345	-.904
240	358	-.012	.127	.378	-.606
240	359	.049	.116	.474	-.432
240	360	.097	.120	.577	-.321
240	361	.110	.141	.661	-.393
240	362	-.009	.124	.482	-.503
240	363	.111	.145	.763	-.388

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	364	.306	.152	.998	-.195
240	365	.296	.137	.778	-.094
240	366	.306	.137	.795	-.108
240	367	.325	.144	.827	-.084
240	368	.367	.143	.855	-.027
240	369	.343	.151	.897	-.091
240	370	.250	.153	.795	-.229
240	371	-.012	.184	.556	-.761
240	372	-.065	.128	.420	-.545
240	373	-.382	.129	.026	-.951
240	374	-.367	.142	.107	-.980
240	375	-.235	.185	.294	-.876
240	376	-.046	.130	.342	-.599
240	377	.045	.126	.422	-.531
240	378	.055	.142	.573	-.523
240	379	.116	.156	.758	-.469
240	380	-.003	.137	.502	-.519
240	381	.079	.125	.572	-.384
240	382	.232	.151	.821	-.311
240	383	.274	.149	.835	-.244
240	384	.267	.146	.796	-.237
240	385	.314	.140	.773	-.171
240	386	.306	.155	.875	-.169
240	387	.312	.158	.819	-.283
240	388	.208	.163	.763	-.411
240	389	-.016	.158	.576	-.714
240	390	-.134	.131	.390	-.586
240	391	-.388	.142	.085	-.924
240	392	-.396	.154	.140	-1.020
240	393	-.263	.168	.231	-.862
240	394	-.066	.130	.339	-.647
240	395	.032	.117	.435	-.524
240	396	.061	.127	.631	-.601
240	397	.104	.139	.567	-.296
240	398	-.060	.128	.371	-.451
240	399	-.047	.135	.474	-.503
240	400	.116	.141	.636	-.355
240	401	.163	.125	.726	-.232
240	402	.147	.134	.721	-.283
240	403	.169	.137	.748	-.250
240	404	.178	.142	.771	-.257
240	405	.155	.132	.623	-.300
240	406	.067	.152	.620	-.468
240	407	-.100	.169	.510	-.791
240	408	-.171	.122	.331	-.628
240	409	-.422	.133	.024	-1.025
240	410	-.419	.161	.251	-1.132
240	411	-.267	.168	.212	-1.010
240	412	-.140	.132	.356	-.678
240	413	-.070	.112	.369	-.578

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	414	-.049	.115	.399	-.476
240	415	-.001	.139	.569	-.480
240	416	-.110	.124	.362	-.631
240	417	-.095	.123	.515	-.485
240	418	.015	.143	.607	-.422
240	419	.041	.142	.572	-.413
240	420	.032	.140	.489	-.402
240	421	.012	.126	.527	-.359
240	422	-.023	.139	.621	-.465
240	423	.235	.109	.796	-.103
240	424	-.135	.126	.521	-.519
240	425	-.239	.133	.219	-.869
240	426	-.243	.127	.298	-.735
240	427	-.320	.138	.208	-.960
240	428	-.301	.146	.263	-.893
240	429	-.265	.131	.101	-.805
240	430	-.190	.124	.170	-.749
240	431	-.112	.094	.211	-.479
240	432	-.123	.117	.302	-.580
240	433	-.081	.121	.466	-.492
240	434	-.160	.128	.408	-.732
240	435	.019	.146	.595	-.593
240	436	.080	.128	.540	-.347
240	437	.088	.118	.592	-.387
240	438	.083	.132	.620	-.457
240	439	.103	.124	.573	-.379
240	440	.058	.121	.550	-.405
240	441	.011	.114	.402	-.334
240	442	-.239	.144	.262	-.823
240	443	-.139	.115	.293	-.583
240	444	-.185	.116	.237	-.617
240	445	-.189	.101	.188	-.598
240	446	-.181	.111	.292	-.602
240	447	-.139	.118	.237	-.607
240	448	-.106	.118	.291	-.575
240	449	-.081	.099	.270	-.613
240	450	-.073	.110	.321	-.464
240	451	-.083	.104	.284	-.453
240	452	-.136	.102	.219	-.512
240	453	.071	.122	.536	-.502
240	454	.152	.131	.602	-.276
240	455	-.165	.142	.308	-.877
240	456	-.028	.124	.446	-.389
240	457	-.099	.097	.266	-.449
240	801	-.270	.104	.114	-.672
240	901	-.416	.137	.045	-.974
240	902	-.374	.148	.132	-1.003
240	903	-.473	.165	.105	-1.198
240	904	-.395	.141	.106	-1.018
240	905	-.456	.135	-.048	-1.005

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
240	906	-.423	.145	-.029	-1.246
240	907	-.483	.157	-.016	-1.188
240	908	-.365	.134	.021	-.962
240	909	-.422	.133	-.048	-1.189
240	910	-.402	.136	.012	-1.055
240	911	.129	.170	.821	-.454
240	912	.189	.129	.714	-.232
240	913	.105	.188	.720	-.487
240	914	.183	.149	.708	-.354
240	915	-.402	.119	-.036	-.831
240	916	-.317	.129	.141	-.801
240	917	-.459	.131	.017	-1.007
240	918	-.420	.146	.041	-1.466
240	919	-.360	.137	.026	-1.171
240	919	-.360	.137	.026	-1.171
240	920	-.425	.140	.094	-1.299
240	921	-.343	.152	.044	-1.371
240	922	-.024	.158	.700	-.854
240	923	-.512	.159	-.009	-1.633
240	924	-.408	.134	.025	-1.086
240	925	-.167	.143	.440	-.959
240	926	-.356	.139	.144	-.883
240	927	-.161	.251	.913	-1.355
240	928	-.332	.152	.242	-.893
240	929	.205	.141	.735	-.249
250	1	-.301	.128	.101	-.897
250	2	-.274	.124	.142	-.911
250	3	-.281	.123	.156	-.807
250	4	-.209	.097	.111	-.642
250	5	-.259	.113	.163	-.631
250	6	-.274	.118	.125	-.720
250	7	-.305	.122	.043	-.736
250	8	-.269	.103	.076	-.679
250	9	-.264	.100	.063	-.587
250	10	-.198	.125	.289	-.691
250	11	-.315	.134	.140	-1.029
250	12	-.195	.114	.251	-.558
250	13	-.345	.126	-.005	-.831
250	14	-.273	.113	.063	-.761
250	15	-.296	.123	.070	-.843
250	16	-.264	.107	.055	-.689
250	101	-.266	.107	.096	-.702
250	102	-.253	.111	.112	-.725
250	103	-.270	.116	.113	-.813
250	104	-.268	.119	.111	-.862
250	105	-.281	.119	.103	-.711
250	106	-.267	.123	.118	-.732
250	107	-.272	.124	.114	-.750
250	108	-.272	.122	.164	-.723
250	109	-.275	.132	.140	-.735

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
250	110	-.291	.129	.163	-.889
250	111	-.283	.139	.170	-.971
250	112	-.314	.157	.163	-1.232
250	113	-.309	.160	.207	-1.126
250	114	-.344	.158	.099	-1.195
250	115	-.327	.167	.139	-1.116
250	116	-.336	.171	.146	-1.196
250	117	-.353	.182	.251	-1.344
250	118	-.383	.165	.167	-1.675
250	119	-.379	.165	.215	-1.177
250	120	-.390	.164	.146	-1.365
250	121	-.350	.147	.265	-.904
250	122	-.348	.140	.147	-.930
250	123	-.368	.215	.247	-1.430
250	124	-.531	.255	.297	-1.781
250	125	-.241	.107	.097	-.610
250	126	-.267	.099	.042	-.602
250	127	-.254	.102	.059	-.596
250	128	-.261	.102	.059	-.600
250	129	-.253	.106	.082	-.619
250	130	-.267	.102	.058	-.589
250	131	-.249	.103	.092	-.599
250	132	-.259	.104	.075	-.598
250	133	-.266	.107	.097	-.636
250	134	-.296	.114	.098	-.856
250	135	-.301	.126	.119	-.976
250	136	-.353	.147	.077	-1.110
250	137	-.341	.145	.092	-1.408
250	138	-.376	.155	.098	-1.135
250	139	-.357	.157	.143	-1.186
250	141	-.342	.167	.209	-1.520
250	142	-.379	.166	.090	-1.779
250	143	-.367	.176	.140	-1.396
250	144	-.386	.181	.136	-1.330
250	145	-.422	.199	.246	-1.476
250	146	-.448	.208	.187	-1.625
250	147	-.478	.241	.196	-1.674
250	148	-.474	.236	.139	-1.618
250	149	-.259	.125	.131	-.954
250	150	-.268	.114	.107	-1.096
250	151	-.257	.119	.153	-.931
250	152	-.266	.114	.138	-.863
250	153	-.253	.111	.149	-.660
250	154	-.276	.103	.063	-.717
250	155	-.258	.109	.093	-.639
250	156	-.284	.107	.073	-.606
250	157	-.305	.114	.061	-.660
250	158	-.330	.117	.011	-.805
250	159	-.373	.140	.027	-.874
250	160	-.361	.127	.021	-.858
250	161	-.380	.143	.001	-.981
250	162	-.382	.121	.039	-.885
250	163	-.379	.121	.119	-.819
250	164	-.338	.152	.104	-1.193
250	165	-.356	.166	.119	-1.461
250	166	-.361	.164	.149	-1.181
250	167	-.409	.194	.176	-1.434
250	168	-.387	.190	.291	-1.509
250	169	-.399	.189	.123	-1.630
250	170	-.370	.168	.128	-1.774
250	171	-.263	.115	.150	-.714
250	172	-.240	.111	.149	-.734
250	173	-.253	.113	.122	-.699
250	174	-.248	.099	.069	-.805
250	175	-.254	.103	.076	-.727
250	176	-.231	.101	.084	-.688
250	177	-.240	.103	.080	-.719
250	178	-.251	.089	.028	-.556
250	179	-.284	.096	.069	-.628
250	180	-.293	.098	.004	-.635
250	181	-.340	.109	.003	-.718
250	182	-.412	.133	-.065	-.997
250	183	-.401	.128	-.060	-.915
250	184	-.399	.140	-.010	-1.208
250	185	-.409	.141	-.009	-1.191
250	186	-.378	.116	.015	-.785
250	187	-.374	.130	.013	-.949
250	188	-.350	.148	.042	-1.349
250	189	-.370	.163	.122	-1.560
250	190	-.368	.148	.057	-1.422
250	191	-.411	.178	.076	-1.978
250	192	-.388	.170	.060	-1.568
250	193	-.398	.175	.080	-1.564
250	194	-.390	.146	.060	-1.177
250	195	-.268	.103	.103	-.660
250	196	-.250	.101	.108	-.597
250	197	-.264	.103	.112	-.634
250	198	-.285	.092	.028	-.590
250	199	-.292	.098	.048	-.599
250	200	-.271	.096	.053	-.559
250	201	-.284	.098	.046	-.575
250	202	-.289	.103	.049	-.642
250	203	-.337	.117	.031	-.805
250	204	-.353	.126	.038	-.951
250	205	-.423	.152	.037	-1.226
250	206	-.388	.119	-.015	-.826
250	207	-.422	.144	-.006	-1.102
250	208	-.411	.137	-.037	-1.143
250	209	-.395	.134	.052	-.974
250	210	-.379	.140	.045	-1.058
250	211	-.402	.159	.150	-1.433
250	212	-.390	.163	.200	-1.171
250	213	-.428	.181	.116	-1.313
250	214	-.407	.160	.235	-1.146
250	215	-.424	.170	.065	-1.332
250	216	-.461	.176	-.035	-1.401
250	217	-.283	.114	.087	-.766
250	218	-.285	.103	.031	-1.006
250	219	-.299	.104	.020	-.730
250	220	-.281	.101	.024	-.676
250	221	-.283	.099	.012	-.607
250	222	-.277	.100	.080	-.594
250	223	-.291	.106	.091	-.624
250	224	-.281	.104	.156	-.623
250	225	-.310	.112	.104	-.824
250	226	-.333	.112	.017	-.789
250	227	-.380	.133	.046	-.856
250	228	-.401	.147	.056	-.987
250	229	-.402	.139	.039	-.963
250	230	-.411	.126	-.048	-1.033
250	231	-.426	.136	-.029	-1.129
250	232	-.405	.133	-.032	-.984
250	233	-.428	.152	-.032	-1.387
250	234	-.440	.165	.089	-1.285
250	235	-.465	.188	.141	-1.463
250	236	-.457	.183	.124	-1.463
250	237	-.494	.203	.138	-1.576
250	238	-.482	.199	.103	-1.311
250	239	-.554	.211	.046	-1.513
250	240	-.533	.203	.023	-1.414
250	241	-.325	.113	.049	-.920
250	242	-.303	.118	.109	-.960
250	243	-.334	.122	.072	-.977
250	244	-.318	.117	.047	-.955
250	245	-.314	.116	.044	-.807
250	246	-.311	.103	.010	-.633
250	247	-.332	.103	-.004	-.743
250	248	-.341	.108	.013	-.741
250	249	-.355	.109	-.003	-.905
250	250	-.345	.115	.047	-.838
250	251	-.382	.117	-.002	-.864
250	252	-.365	.113	-.012	-.886
250	253	-.386	.123	.009	-.910
250	254	-.364	.126	.194	-.899
250	255	-.392	.123	-.030	-.972
250	256	-.430	.160	.001	-1.143
250	257	-.486	.171	.010	-1.574
250	258	-.472	.184	.082	-1.323
250	259	-.505	.186	.064	-1.450
250	260	-.489	.189	.006	-1.644

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
250	261	-.567	.218	-.022	-1.794
250	262	-.548	.218	-.019	-1.687
250	263	-.328	.129	.103	-1.123
250	264	-.299	.125	.106	-1.120
250	265	-.315	.106	.017	-.712
250	266	-.292	.107	.041	-.703
250	267	-.326	.113	.016	-.739
250	268	-.332	.110	.006	-.792
250	269	-.331	.112	-.007	-.738
250	270	-.306	.112	-.000	-.746
250	271	-.346	.114	-.024	-.836
250	272	-.330	.112	.021	-1.006
250	273	-.347	.109	-.015	-.821
250	274	-.325	.114	.031	-.771
250	275	-.367	.125	.009	-.997
250	276	-.323	.110	.021	-.736
250	277	-.320	.103	.045	-.714
250	278	-.304	.112	.077	-.709
250	279	-.346	.115	.058	-.811
250	280	-.245	.113	.163	-.814
250	281	-.365	.140	.059	-1.101
250	282	-.371	.158	.102	-1.113
250	283	-.353	.149	.097	-1.035
250	284	-.332	.152	.205	-1.259
250	285	-.410	.229	.295	-2.009
250	286	-.519	.250	.196	-1.738
250	301	.146	.170	.669	-.743
250	302	.209	.162	.783	-.466
250	303	.168	.148	.746	-.447
250	304	.171	.134	.692	-.350
250	305	.097	.122	.456	-.303
250	306	.055	.119	.450	-.374
250	307	.014	.114	.449	-.360
250	308	.011	.111	.410	-.354
250	309	-.103	.098	.357	-.469
250	310	.352	.168	.952	-.235
250	311	.238	.182	.816	-.297
250	312	.179	.145	.695	-.325
250	313	.131	.118	.519	-.281
250	314	.103	.108	.466	-.285
250	315	.008	.104	.409	-.369
250	316	-.014	.099	.411	-.392
250	317	.356	.171	.943	-.237
250	318	.361	.176	1.056	-.253
250	319	.212	.181	.890	-.341
250	320	.161	.145	.665	-.405
250	321	.121	.170	.754	-.415
250	322	.073	.120	.556	-.309
250	323	.003	.113	.407	-.408
250	324	-.081	.122	.338	-.510
250	325	-.160	.131	.284	-.647
250	326	-.034	.121	.407	-.520
250	327	.125	.166	.745	-.576
250	328	.355	.174	1.065	-.203
250	329	.389	.171	1.005	-.177
250	330	.409	.172	.976	-.153
250	331	.433	.174	1.040	-.134
250	332	.442	.167	1.193	-.362
250	333	.346	.162	.849	-.280
250	334	.306	.157	.823	-.320
250	335	.038	.175	.610	-.924
250	336	-.054	.135	.427	-.603
250	337	-.620	.230	.090	-1.521
250	338	-.250	.220	.307	-1.055
250	339	-.153	.142	.299	-.761
250	340	-.038	.113	.336	-.509
250	341	-.003	.106	.335	-.335
250	342	.027	.109	.386	-.309
250	343	.122	.136	.630	-.310
250	344	.033	.112	.457	-.345
250	345	.116	.146	.692	-.336
250	346	.328	.164	.952	-.221
250	347	.341	.158	1.103	-.174
250	348	.375	.159	.993	-.193
250	349	.354	.160	.851	-.239
250	350	.418	.160	.878	-.213
250	351	.379	.157	.859	-.210
250	352	.292	.147	.761	-.230
250	353	-.071	.180	.490	-.696
250	354	-.127	.129	.356	-.614
250	355	-.430	.151	.078	-1.086
250	356	-.400	.153	.143	-1.137
250	357	-.365	.194	.154	-.926
250	358	-.124	.161	.308	-.846
250	359	-.029	.134	.440	-.729
250	360	.030	.132	.502	-.491
250	361	.031	.140	.532	-.567
250	362	-.024	.125	.462	-.535
250	363	.079	.145	.623	-.428
250	364	.269	.155	.819	-.218
250	365	.271	.159	.804	-.220
250	366	.292	.157	.828	-.205
250	367	.319	.164	.908	-.201
250	368	.365	.157	.909	-.093
250	369	.306	.147	.837	-.146
250	370	.201	.143	.728	-.308
250	371	-.121	.185	.496	-.813
250	372	-.143	.121	.300	-.640
250	373	-.481	.138	-.060	-1.083
250	374	-.439	.145	.018	-1.142
250	375	-.364	.181	.158	-1.091
250	376	-.168	.163	.266	-.845
250	377	-.081	.139	.368	-.627
250	378	-.043	.148	.523	-.557
250	379	.015	.166	.637	-.569
250	380	-.054	.141	.573	-.552
250	381	.075	.134	.597	-.312
250	382	.246	.160	.881	-.245
250	383	.296	.158	.938	-.171
250	384	.286	.154	.851	-.209
250	385	.314	.172	.904	-.190
250	386	.290	.153	.876	-.364
250	387	.312	.184	1.038	-.237
250	388	.158	.173	.906	-.345
250	389	-.172	.183	.542	-.773
250	390	-.251	.143	.322	-.765
250	391	-.525	.167	-.042	-1.176
250	392	-.534	.173	.124	-1.217
250	393	-.429	.192	.097	-1.223
250	394	-.173	.156	.368	-.844
250	395	-.028	.128	.406	-.625
250	396	.015	.145	.693	-.519
250	397	.062	.144	.528	-.483
250	398	-.052	.132	.447	-.572
250	399	-.029	.153	.493	-.522
250	400	.154	.160	.695	-.347
250	401	.153	.142	.724	-.245
250	402	.152	.149	.731	-.279
250	403	.188	.153	.692	-.259
250	404	.202	.153	.729	-.260
250	405	.149	.144	.704	-.318
250	406	.032	.166	.702	-.508
250	407	-.213	.202	.650	-.969
250	408	-.242	.140	.342	-.819
250	409	-.519	.150	-.103	-1.234
250	410	-.495	.169	.019	-1.183
250	411	-.370	.180	.158	-1.015
250	412	-.225	.155	.185	-.923
250	413	-.190	.153	.224	-1.130
250	414	-.077	.125	.356	-.545
250	415	-.062	.167	.530	-.886
250	416	-.122	.144	.385	-.776
250	417	-.136	.142	.478	-.575
250	418	.043	.163	.721	-.461
250	419	.090	.159	.747	-.368
250	420	.084	.154	.698	-.344
250	421	.067	.133	.524	-.457
250	422	.096	.154	.732	-.431
250	423	.335	.126	.879	-.152
250	424	-.077	.154	.569	-.611

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
250	425	-.335	.176	.324	-.996
250	426	-.304	.134	.144	-.820
250	427	-.425	.159	.010	-1.097
250	428	-.415	.159	.104	-1.156
250	429	-.385	.136	.029	-.961
250	430	-.259	.138	.127	-.872
250	431	-.125	.104	.215	-.566
250	432	-.167	.136	.318	-.697
250	433	-.180	.136	.344	-.715
250	434	-.183	.139	.342	-.739
250	435	-.040	.143	.597	-.563
250	436	.043	.134	.572	-.354
250	437	.072	.145	.642	-.384
250	438	.105	.159	.714	-.413
250	439	.125	.157	.774	-.429
250	440	.107	.154	.810	-.333
250	441	.004	.114	.469	-.454
250	442	-.245	.153	.448	-1.166
250	443	-.183	.125	.248	-.751
250	444	-.266	.131	.112	-.815
250	445	-.306	.128	.177	-.885
250	446	-.263	.140	.275	-.957
250	447	-.245	.143	.229	-1.012
250	448	-.198	.136	.309	-.729
250	449	-.230	.117	.237	-.664
250	450	-.166	.127	.360	-.625
250	451	-.093	.111	.359	-.499
250	452	-.131	.107	.291	-.539
250	453	.002	.124	.507	-.418
250	454	.124	.141	.639	-.440
250	455	-.197	.159	.439	-.827
250	456	-.053	.120	.381	-.435
250	457	-.091	.103	.312	-.445
250	801	-.240	.089	.061	-.534
250	901	-.318	.132	.088	-.856
250	902	-.333	.144	.094	-.965
250	903	-.342	.147	.101	-.901
250	904	-.355	.137	.077	-.906
250	905	-.389	.139	.121	-.951
250	906	-.405	.161	.096	-1.111
250	907	-.398	.169	.081	-1.310
250	908	-.313	.135	.132	-.913
250	909	-.421	.159	.061	-1.424
250	910	-.387	.145	.018	-1.051
250	911	.148	.152	.767	-.367
250	912	.141	.114	.516	-.290
250	913	.039	.160	.631	-.385
250	914	.120	.123	.552	-.268
250	915	-.327	.111	.012	-.847
250	916	-.307	.117	.081	-.741
250	917	-.340	.109	.018	-.734
250	918	-.337	.123	.032	-.857
250	919	-.297	.109	.012	-.782
250	919	-.297	.109	.012	-.782
250	920	-.332	.121	.044	-.828
250	921	-.284	.115	.019	-.884
250	922	-.120	.162	.585	-1.038
250	923	-.331	.117	.013	-.829
250	924	-.303	.110	.028	-.763
250	925	-.241	.144	.327	-.978
250	926	-.275	.110	.066	-.821
250	927	-.290	.203	.813	-1.214
250	928	-.278	.122	.290	-.935
250	929	.172	.120	.583	-.219
260	1	-.247	.119	.119	-.948
260	2	-.220	.119	.122	-1.187
260	3	-.228	.086	.055	-.548
260	4	-.222	.091	.107	-.507
260	5	-.226	.100	.107	-.685
260	6	-.214	.104	.124	-.667
260	7	-.223	.113	.176	-.739
260	8	-.205	.097	.140	-.553
260	9	-.227	.101	.085	-.561
260	10	-.211	.114	.122	-.782
260	11	-.249	.127	.134	-.855
260	12	-.210	.106	.097	-.552
260	13	-.244	.110	.104	-1.016
260	14	-.200	.105	.135	-.628
260	15	-.242	.111	.134	-.735
260	16	-.213	.101	.128	-.612
260	101	-.228	.118	.120	-.792
260	102	-.205	.120	.145	-.806
260	103	-.226	.126	.186	-.837
260	104	-.215	.128	.200	-.799
260	105	-.224	.111	.114	-.612
260	106	-.200	.115	.149	-.616
260	107	-.210	.116	.174	-.641
260	108	-.223	.117	.166	-.642
260	109	-.194	.119	.144	-.695
260	110	-.231	.120	.263	-.646
260	111	-.213	.125	.288	-.638
260	112	-.244	.138	.271	-1.006
260	113	-.233	.141	.276	-1.234
260	114	-.272	.140	.135	-.882
260	115	-.254	.151	.183	-1.166
260	116	-.281	.165	.197	-1.229
260	117	-.310	.191	.268	-1.148
260	118	-.388	.199	.145	-1.364
260	119	-.415	.206	.200	-1.188
260	120	-.450	.215	.151	-1.568
260	121	-.321	.170	.371	-1.294
260	122	-.302	.165	.287	-.987
260	123	-.243	.243	.566	-.484
260	124	-.398	.329	.675	-.726
260	125	-.198	.108	.256	-.621
260	126	-.227	.109	.126	-.619
260	127	-.200	.112	.161	-.540
260	128	-.213	.113	.158	-.578
260	129	-.199	.114	.185	-.547
260	130	-.229	.092	.063	-.557
260	131	-.199	.093	.086	-.535
260	132	-.237	.099	.086	-.570
260	133	-.212	.104	.101	-.642
260	134	-.246	.107	.116	-.749
260	135	-.221	.115	.175	-.812
260	136	-.262	.129	.158	-.932
260	137	-.238	.127	.160	-1.001
260	138	-.282	.128	.132	-.938
260	139	-.248	.131	.162	-.958
260	141	-.289	.160	.191	-1.148
260	142	-.361	.187	.157	-1.313
260	143	-.346	.207	.240	-1.408
260	144	-.373	.215	.270	-1.362
260	145	-.362	.218	.345	-1.408
260	146	-.407	.229	.172	-1.875
260	147	-.441	.288	.352	-1.625
260	148	-.458	.280	.412	-1.738
260	149	-.205	.115	.145	-.755
260	150	-.239	.104	.100	-1.127
260	151	-.199	.106	.207	-.642
260	152	-.213	.102	.149	-.718
260	153	-.195	.100	.156	-.563
260	154	-.236	.096	.048	-.549
260	155	-.195	.100	.117	-.552
260	156	-.214	.097	.071	-.580
260	157	-.212	.101	.100	-.585
260	158	-.264	.107	.042	-.599
260	159	-.251	.124	.092	-.650
260	160	-.261	.120	.080	-.675
260	161	-.270	.134	.082	-.826
260	162	-.251	.107	.112	-.589
260	163	-.261	.109	.082	-.674
260	164	-.261	.135	.116	-.914
260	165	-.280	.157	.153	-1.260
260	166	-.267	.140	.128	-.979
260	167	-.310	.176	.132	-1.492
260	168	-.299	.171	.213	-1.246
260	169	-.310	.175	.149	-1.260
260	170	-.292	.168	.082	-1.437
260	171	-.200	.103	.116	-.623

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	172	-.189	.100	.111	-.597
260	173	-.194	.102	.095	-.615
260	174	-.186	.083	.085	-.621
260	175	-.200	.086	.079	-.576
260	176	-.188	.084	.086	-.569
260	177	-.190	.086	.096	-.599
260	178	-.173	.087	.137	-.455
260	179	-.199	.094	.140	-.487
260	180	-.201	.095	.133	-.499
260	181	-.220	.099	.121	-.543
260	182	-.247	.095	.034	-.593
260	183	-.264	.098	.044	-.703
260	184	-.271	.105	.053	-.809
260	185	-.274	.107	.057	-.841
260	186	-.235	.095	.067	-.599
260	187	-.250	.107	.101	-.665
260	188	-.249	.125	.151	-1.292
260	189	-.261	.140	.153	-1.151
260	190	-.245	.121	.074	-.944
260	191	-.279	.149	.098	-1.232
260	192	-.270	.141	.113	-1.316
260	193	-.271	.139	.180	-1.099
260	194	-.278	.157	.113	-1.326
260	195	-.199	.095	.187	-.676
260	196	-.193	.093	.155	-.671
260	197	-.195	.095	.142	-.557
260	198	-.182	.086	.106	-.748
260	199	-.193	.091	.104	-.749
260	200	-.186	.089	.097	-.641
260	201	-.185	.090	.107	-.517
260	202	-.181	.082	.083	-.433
260	203	-.210	.088	.097	-.462
260	204	-.220	.088	.106	-.473
260	205	-.246	.094	.095	-.575
260	206	-.232	.091	.054	-.565
260	207	-.265	.104	.058	-.790
260	208	-.289	.119	.057	-.876
260	209	-.248	.102	.088	-.660
260	210	-.246	.116	.149	-.875
260	211	-.271	.136	.146	-1.032
260	212	-.274	.144	.165	-1.184
260	213	-.289	.163	.162	-1.426
260	214	-.272	.153	.145	-1.261
260	215	-.291	.160	.083	-1.272
260	216	-.342	.165	.069	-1.410
260	217	-.198	.100	.137	-.695
260	218	-.177	.097	.125	-.518
260	219	-.195	.101	.141	-.508
260	220	-.193	.100	.137	-.543
260	221	-.186	.098	.152	-.470
260	222	-.178	.089	.162	-.507
260	223	-.192	.096	.147	-.557
260	224	-.194	.095	.136	-.569
260	225	-.199	.098	.148	-.585
260	226	-.197	.085	.061	-.518
260	227	-.225	.098	.091	-.588
260	228	-.243	.100	.078	-.772
260	229	-.245	.101	.089	-.764
260	230	-.240	.093	.033	-.597
260	231	-.254	.104	.073	-.643
260	232	-.250	.098	.044	-.609
260	233	-.254	.107	.089	-.737
260	234	-.249	.106	.051	-.746
260	235	-.276	.129	.066	-.940
260	236	-.284	.132	.060	-1.004
260	237	-.300	.152	.085	-1.502
260	238	-.314	.150	.116	-1.177
260	239	-.327	.152	.053	-1.298
260	240	-.318	.149	.049	-1.691
260	241	-.217	.089	.124	-.644
260	242	-.211	.094	.142	-.727
260	243	-.220	.096	.124	-.662
260	244	-.214	.090	.115	-.625
260	245	-.216	.098	.154	-.565
260	246	-.196	.092	.081	-.572
260	247	-.204	.091	.060	-.586
260	248	-.204	.089	.083	-.576
260	249	-.210	.090	.099	-.549
260	250	-.205	.097	.129	-.562
260	251	-.218	.096	.117	-.550
260	252	-.216	.095	.135	-.538
260	253	-.230	.091	.059	-.551
260	254	-.221	.095	.077	-.568
260	255	-.256	.097	.057	-.595
260	256	-.257	.114	.065	-.765
260	257	-.303	.120	.029	-.943
260	258	-.300	.135	.064	-1.003
260	259	-.313	.144	.070	-1.298
260	260	-.327	.167	.108	-1.384
260	261	-.326	.157	.123	-1.228
260	262	-.319	.159	.141	-1.340
260	263	-.211	.103	.155	-.684
260	264	-.201	.101	.156	-.564
260	265	-.205	.090	.111	-.602
260	266	-.196	.093	.134	-.613
260	267	-.206	.095	.132	-.649
260	268	-.235	.099	.073	-.633
260	269	-.215	.086	.131	-.573
260	270	-.208	.091	.155	-.607
260	271	-.219	.089	.137	-.569
260	272	-.214	.088	.111	-.591
260	273	-.223	.081	.065	-.470
260	274	-.212	.087	.123	-.485
260	275	-.223	.087	.118	-.505
260	276	-.214	.086	.104	-.507
260	277	-.232	.084	.028	-.594
260	278	-.224	.087	.055	-.591
260	279	-.236	.087	.043	-.633
260	280	-.208	.090	.150	-.649
260	281	-.239	.095	.147	-.715
260	282	-.234	.104	.163	-1.033
260	283	-.234	.106	.092	-1.179
260	284	-.229	.107	.100	-.983
260	285	-.280	.171	.205	-1.388
260	286	-.348	.191	.125	-1.746
260	301	.067	.256	.986	-.832
260	302	.134	.231	1.022	-.609
260	303	.100	.203	.877	-.562
260	304	.108	.168	.916	-.445
260	305	.034	.163	.627	-.624
260	306	.026	.146	.573	-.676
260	307	-.011	.134	.443	-.635
260	308	-.007	.127	.417	-.626
260	309	-.132	.118	.268	-.701
260	310	.249	.252	1.106	-.949
260	311	.201	.241	1.010	-.784
260	312	.148	.180	.762	-.413
260	313	.067	.166	.632	-.633
260	314	.055	.138	.464	-.553
260	315	-.031	.124	.360	-.559
260	316	-.054	.117	.373	-.571
260	317	.197	.226	.994	-.531
260	318	.251	.239	1.097	-.558
260	319	.197	.217	1.038	-.607
260	320	.139	.198	.749	-.605
260	321	.100	.186	.696	-.443
260	322	.053	.144	.582	-.600
260	323	-.036	.121	.377	-.747
260	324	-.137	.123	.489	-.773
260	325	-.251	.136	.179	-.808
260	326	-.094	.125	.259	-.642
260	327	-.021	.189	.645	-.728
260	328	.191	.222	1.039	-.575
260	329	.165	.224	1.159	-.557
260	330	.191	.219	1.145	-.511
260	331	.221	.240	1.060	-.490
260	332	.287	.247	1.034	-.697
260	333	.221	.231	1.089	-.604
260	334	.221	.220	1.175	-.541
260	335	.023	.191	.942	-.668

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	336	-.082	.142	.506	-.576
260	337	-.540	.229	.086	-1.389
260	338	-.285	.182	.226	-1.205
260	339	-.220	.145	.203	-.887
260	340	-.101	.117	.265	-.658
260	341	-.065	.113	.280	-.581
260	342	-.021	.113	.393	-.570
260	343	.076	.150	.689	-.676
260	344	.011	.115	.387	-.639
260	345	-.079	.152	.545	-.522
260	346	.092	.190	.862	-.419
260	347	.145	.195	.914	-.481
260	348	.114	.189	.763	-.409
260	349	.127	.233	1.003	-.491
260	350	.224	.258	1.237	-.541
260	351	.228	.266	1.178	-.529
260	352	.200	.242	1.066	-.535
260	353	-.068	.192	.792	-.662
260	354	-.159	.142	.488	-.703
260	355	-.454	.185	.312	-1.575
260	356	-.374	.188	.314	-1.278
260	357	-.296	.168	.178	-.874
260	358	-.121	.125	.270	-.580
260	359	-.064	.124	.383	-.569
260	360	-.013	.128	.447	-.522
260	361	-.021	.149	.675	-.472
260	362	-.059	.127	.461	-.505
260	363	-.073	.143	.789	-.540
260	364	.079	.173	1.035	-.486
260	365	.047	.187	.949	-.522
260	366	.062	.176	.774	-.480
260	367	.064	.200	.803	-.535
260	368	.149	.220	.873	-.516
260	369	.148	.224	.882	-.484
260	370	.119	.211	.781	-.575
260	371	-.067	.191	.743	-.812
260	372	-.146	.138	.442	-.671
260	373	-.493	.176	.003	-1.303
260	374	-.399	.185	.146	-1.190
260	375	-.283	.158	.153	-1.000
260	376	-.132	.125	.252	-.873
260	377	-.064	.113	.307	-.615
260	378	-.046	.131	.387	-.680
260	379	-.004	.148	.535	-.654
260	380	-.057	.128	.381	-.617
260	381	-.057	.127	.517	-.420
260	382	.044	.166	.834	-.432
260	383	.062	.172	.901	-.446
260	384	.046	.164	.797	-.468
260	385	.017	.162	.646	-.502
260	386	.132	.214	.845	-.521
260	387	.087	.205	.909	-.685
260	388	.039	.197	.717	-.760
260	389	-.091	.159	.620	-.679
260	390	-.203	.137	.346	-.765
260	391	-.406	.160	.061	-1.197
260	392	-.374	.169	.138	-1.054
260	393	-.253	.140	.157	-.890
260	394	-.148	.124	.323	-.944
260	395	-.074	.117	.327	-.479
260	396	-.053	.128	.467	-.475
260	397	-.006	.139	.585	-.501
260	398	-.074	.133	.380	-.530
260	399	-.133	.136	.432	-.658
260	400	-.040	.153	.650	-.577
260	401	.013	.156	.767	-.476
260	402	-.011	.164	.733	-.535
260	403	.013	.183	.819	-.620
260	404	.050	.200	.758	-.540
260	405	.010	.160	.559	-.592
260	406	-.039	.175	.617	-.793
260	407	-.146	.173	.484	-.818
260	408	-.213	.133	.470	-.645
260	409	-.398	.145	.012	-1.208
260	410	-.378	.169	.114	-1.317
260	411	-.269	.149	.139	-1.201
260	412	-.185	.120	.203	-.821
260	413	-.120	.114	.294	-.603
260	414	-.112	.111	.412	-.523
260	415	-.065	.144	.476	-.580
260	416	-.108	.128	.364	-.587
260	417	-.171	.113	.298	-.605
260	418	-.110	.135	.544	-.542
260	419	-.092	.136	.582	-.512
260	420	-.108	.130	.470	-.519
260	421	-.104	.131	.550	-.497
260	422	-.098	.158	.570	-.662
260	423	.225	.130	.762	-.215
260	424	-.118	.153	.516	-.657
260	425	-.193	.148	.423	-.960
260	426	-.247	.141	.317	-.964
260	427	-.340	.161	.197	-1.014
260	428	-.326	.160	.226	-1.017
260	429	-.220	.121	.263	-.727
260	430	-.192	.119	.284	-.685
260	431	-.151	.097	.172	-.478
260	432	-.148	.117	.378	-.520
260	433	-.108	.123	.460	-.502
260	434	-.149	.129	.421	-.583
260	435	-.136	.130	.442	-.542
260	436	-.103	.117	.375	-.460
260	437	-.068	.111	.472	-.472
260	438	-.098	.121	.528	-.538
260	439	-.088	.123	.489	-.546
260	440	-.094	.127	.690	-.537
260	441	-.060	.124	.454	-.493
260	442	-.165	.133	.489	-.831
260	443	-.140	.116	.488	-.581
260	444	-.194	.116	.207	-.742
260	445	-.183	.102	.134	-.540
260	446	-.207	.113	.147	-.644
260	447	-.182	.112	.168	-.543
260	448	-.169	.110	.162	-.509
260	449	-.130	.105	.221	-.521
260	450	-.153	.117	.220	-.585
260	451	-.133	.109	.355	-.483
260	452	-.135	.102	.283	-.469
260	453	-.135	.096	.249	-.488
260	454	-.067	.121	.463	-.485
260	455	-.170	.119	.382	-.613
260	456	-.119	.109	.373	-.529
260	457	-.147	.099	.336	-.531
260	801	-.202	.081	.088	-.491
260	901	-.193	.126	.190	-.710
260	902	-.237	.144	.261	-.884
260	903	-.244	.139	.283	-.943
260	904	-.291	.152	.285	-.957
260	905	-.247	.155	.182	-.923
260	906	-.388	.230	.477	-1.514
260	907	-.328	.177	.226	-1.331
260	908	-.252	.137	.223	-.949
260	909	-.518	.218	.412	-1.478
260	910	-.384	.167	.181	-1.231
260	911	.144	.187	.991	-.467
260	912	.085	.125	.571	-.318
260	913	.076	.162	.738	-.414
260	914	.066	.131	.561	-.454
260	915	-.215	.087	.052	-.505
260	916	-.211	.088	.052	-.515
260	917	-.220	.084	.030	-.537
260	918	-.215	.088	.053	-.528
260	919	-.216	.101	.161	-.713
260	919	-.216	.101	.161	-.713
260	920	-.214	.087	.052	-.523
260	921	-.236	.107	.104	-.887
260	922	-.178	.112	.275	-.550
260	923	-.212	.095	.102	-.612
260	924	-.203	.093	.083	-.587
260	925	-.212	.120	.203	-.789
260	926	-.200	.094	.101	-.569

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
260	927	-.202	.129	.465	-.829
260	928	-.206	.095	.107	-.555
260	929	.103	.138	.538	-.407
270	1	-.161	.096	.171	-.601
270	2	-.150	.091	.167	-.458
270	3	-.172	.093	.216	-.472
270	4	-.184	.092	.237	-.523
270	5	-.213	.089	.070	-.516
270	6	-.162	.087	.112	-.471
270	7	-.163	.090	.127	-.487
270	8	-.148	.103	.315	-.550
270	9	-.200	.098	.114	-.566
270	10	-.174	.104	.136	-.559
270	11	-.171	.103	.169	-.570
270	12	-.183	.102	.160	-.592
270	13	-.198	.107	.197	-.561
270	14	-.149	.106	.237	-.511
270	15	-.167	.104	.325	-.552
270	16	-.159	.099	.304	-.531
270	101	-.258	.113	.147	-.752
270	102	-.209	.114	.179	-.735
270	103	-.227	.117	.161	-.696
270	104	-.214	.119	.184	-.697
270	105	-.249	.117	.131	-.643
270	106	-.192	.116	.184	-.607
270	107	-.199	.114	.180	-.645
270	108	-.203	.104	.164	-.601
270	109	-.192	.114	.188	-.564
270	110	-.256	.112	.105	-.702
270	111	-.206	.113	.177	-.685
270	112	-.231	.119	.207	-.749
270	113	-.215	.120	.150	-.854
270	114	-.272	.112	.061	-.786
270	115	-.224	.115	.141	-.648
270	116	-.234	.127	.201	-.742
270	117	-.240	.148	.205	-1.030
270	118	-.326	.179	.160	-1.426
270	119	-.347	.194	.176	-1.333
270	120	-.497	.248	.140	-1.679
270	121	-.193	.185	.606	-.888
270	122	-.171	.186	.583	-.701
270	123	-.033	.236	.827	-1.280
270	124	-.078	.305	.584	-1.520
270	125	-.242	.130	.124	-1.135
270	126	-.296	.118	.102	-.797
270	127	-.239	.119	.141	-.798
270	128	-.254	.121	.122	-.776
270	129	-.229	.114	.161	-.787
270	130	-.283	.109	.104	-.662
270	131	-.219	.106	.155	-.593
270	132	-.255	.101	.112	-.568
270	133	-.247	.130	.211	-.834
270	134	-.343	.135	.007	-.907
270	135	-.285	.141	.057	-.942
270	136	-.284	.125	.120	-.903
270	137	-.283	.136	.111	-.801
270	138	-.316	.127	.111	-.835
270	139	-.228	.122	.162	-.698
270	141	-.209	.125	.173	-.914
270	142	-.325	.148	.139	-1.025
270	143	-.368	.194	.179	-1.387
270	144	-.430	.198	.250	-1.374
270	145	-.282	.181	.406	-1.117
270	146	-.279	.197	.484	-1.394
270	147	-.216	.307	.656	-1.640
270	148	-.252	.306	.639	-1.516
270	149	-.227	.137	.181	-1.070
270	150	-.293	.139	.072	-1.153
270	151	-.222	.138	.141	-.823
270	152	-.238	.137	.116	-.952
270	153	-.214	.126	.129	-.806
270	154	-.271	.103	.120	-.609
270	155	-.198	.103	.228	-.566
270	156	-.229	.111	.157	-.673
270	157	-.224	.125	.189	-.843
270	158	-.309	.128	.035	-.970
270	159	-.240	.133	.125	-1.069
270	160	-.269	.134	.107	-1.018
270	161	-.232	.118	.121	-.710
270	162	-.191	.097	.141	-.600
270	163	-.208	.103	.128	-.627
270	164	-.256	.116	.135	-.923
270	165	-.314	.153	.158	-1.229
270	166	-.339	.161	.054	-1.372
270	167	-.300	.160	.126	-1.875
270	168	-.265	.176	.198	-1.795
270	169	-.251	.231	.470	-1.345
270	170	-.237	.203	.507	-1.304
270	171	-.194	.108	.170	-.751
270	172	-.199	.108	.153	-.762
270	173	-.194	.112	.137	-.739
270	174	-.182	.105	.131	-.741
270	175	-.191	.103	.157	-.679
270	176	-.192	.099	.144	-.619
270	177	-.179	.097	.156	-.578
270	178	-.154	.090	.121	-.481
270	179	-.169	.096	.130	-.528
270	180	-.179	.098	.107	-.548
270	181	-.173	.100	.142	-.547
270	182	-.167	.086	.141	-.704
270	183	-.183	.092	.142	-.640
270	184	-.190	.092	.148	-.585
270	185	-.180	.093	.156	-.570
270	186	-.173	.091	.134	-.548
270	187	-.198	.099	.187	-.608
270	188	-.224	.106	.181	-.801
270	189	-.241	.122	.095	-1.168
270	190	-.238	.118	.119	-.969
270	191	-.246	.132	.125	-1.244
270	192	-.248	.133	.119	-1.307
270	193	-.244	.147	.374	-1.024
270	194	-.228	.139	.228	-.975
270	195	-.185	.110	.164	-.665
270	196	-.195	.110	.161	-.690
270	197	-.182	.113	.169	-.739
270	198	-.156	.100	.166	-.548
270	199	-.165	.104	.166	-.573
270	200	-.171	.102	.154	-.564
270	201	-.154	.098	.159	-.497
270	202	-.146	.084	.147	-.477
270	203	-.164	.090	.146	-.505
270	204	-.180	.091	.137	-.520
270	205	-.173	.095	.159	-.540
270	206	-.161	.084	.138	-.453
270	207	-.175	.090	.143	-.480
270	208	-.168	.103	.188	-.524
270	209	-.175	.095	.178	-.491
270	210	-.172	.086	.182	-.479
270	211	-.193	.095	.168	-.555
270	212	-.211	.100	.174	-.612
270	213	-.201	.104	.180	-.699
270	214	-.189	.090	.097	-.630
270	215	-.208	.105	.111	-.650
270	216	-.208	.117	.197	-.706
270	217	-.175	.103	.165	-.823
270	218	-.162	.100	.182	-.559
270	219	-.173	.107	.162	-.625
270	220	-.188	.108	.141	-.740
270	221	-.163	.102	.139	-.602
270	222	-.150	.097	.159	-.507
270	223	-.155	.102	.161	-.529
270	224	-.169	.100	.118	-.522
270	225	-.157	.099	.135	-.513
270	226	-.157	.083	.118	-.450
270	227	-.174	.093	.125	-.505
270	228	-.198	.091	.089	-.528
270	229	-.180	.091	.104	-.506
270	230	-.162	.084	.144	-.457
270	231	-.171	.095	.178	-.507
270	232	-.188	.092	.144	-.515

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	233	-.173	.091	.158	-.502
270	234	-.168	.085	.127	-.576
270	235	-.181	.096	.132	-.734
270	236	-.200	.095	.107	-.797
270	237	-.187	.097	.133	-.900
270	238	-.180	.101	.138	-.726
270	239	-.195	.105	.143	-.762
270	240	-.187	.104	.155	-.819
270	241	-.174	.098	.202	-.620
270	242	-.158	.102	.250	-.683
270	243	-.172	.105	.259	-.839
270	244	-.163	.099	.227	-.752
270	245	-.158	.106	.200	-.520
270	246	-.147	.102	.258	-.533
270	247	-.155	.098	.230	-.473
270	248	-.144	.095	.221	-.425
270	249	-.160	.092	.151	-.484
270	250	-.152	.095	.177	-.493
270	251	-.170	.093	.138	-.506
270	252	-.159	.093	.147	-.489
270	253	-.176	.096	.156	-.558
270	254	-.162	.099	.183	-.556
270	255	-.174	.085	.112	-.505
270	256	-.171	.099	.179	-.546
270	257	-.180	.086	.152	-.488
270	258	-.166	.093	.163	-.515
270	259	-.178	.089	.143	-.508
270	260	-.175	.098	.184	-.623
270	261	-.186	.109	.194	-1.044
270	262	-.171	.111	.225	-.985
270	263	-.172	.097	.159	-.508
270	264	-.159	.095	.172	-.493
270	265	-.178	.093	.133	-.508
270	266	-.163	.095	.147	-.509
270	267	-.175	.097	.150	-.534
270	268	-.167	.095	.158	-.582
270	269	-.158	.094	.170	-.499
270	270	-.143	.096	.191	-.481
270	271	-.162	.094	.168	-.485
270	272	-.154	.092	.166	-.475
270	273	-.167	.090	.120	-.519
270	274	-.156	.096	.147	-.523
270	275	-.171	.095	.131	-.542
270	276	-.159	.094	.140	-.523
270	277	-.179	.090	.119	-.467
270	278	-.164	.091	.140	-.454
270	279	-.179	.091	.117	-.469
270	280	-.165	.088	.133	-.442
270	281	-.181	.095	.144	-.498
270	282	-.167	.098	.166	-.490
270	283	-.181	.097	.152	-.503
270	284	-.168	.095	.153	-.468
270	285	-.162	.096	.186	-.674
270	286	-.174	.089	.114	-.848
270	301	.017	.301	.861	-1.406
270	302	.036	.261	.995	-1.258
270	303	.006	.232	.732	-.869
270	304	.013	.197	.697	-.611
270	305	-.064	.172	.450	-.689
270	306	-.062	.166	.458	-.825
270	307	-.093	.151	.428	-.642
270	308	-.075	.142	.378	-.562
270	309	-.164	.125	.348	-.707
270	310	.029	.269	1.069	-1.041
270	311	.026	.243	.937	-.733
270	312	.054	.208	.787	-.610
270	313	-.026	.183	.574	-.742
270	314	-.036	.161	.500	-.718
270	315	-.123	.143	.387	-.752
270	316	-.144	.135	.372	-.766
270	317	-.003	.197	.761	-.540
270	318	.014	.223	.954	-.648
270	319	-.040	.245	.743	-1.025
270	320	-.023	.212	.660	-.712
270	321	-.002	.198	.712	-.660
270	322	-.054	.170	.606	-.680
270	323	-.136	.148	.420	-.731
270	324	-.203	.140	.341	-.851
270	325	-.302	.151	.210	-.979
270	326	-.210	.148	.276	-.854
270	327	-.134	.162	.667	-.962
270	328	-.040	.165	.730	-.895
270	329	-.052	.161	.590	-.449
270	330	-.033	.160	.599	-.569
270	331	-.057	.178	.784	-.585
270	332	-.016	.211	.903	-.713
270	333	-.052	.226	.828	-.886
270	334	-.059	.242	.887	-.952
270	335	-.192	.253	.815	-1.351
270	336	-.190	.180	.488	-1.081
270	337	-.442	.211	.106	-1.496
270	338	-.298	.186	.255	-1.615
270	339	-.318	.176	.244	-1.184
270	340	-.201	.141	.336	-.729
270	341	-.200	.141	.269	-.691
270	342	-.159	.139	.291	-.661
270	343	-.135	.177	.525	-.733
270	344	-.139	.140	.309	-.716
270	345	-.199	.118	.225	-.663
270	346	-.120	.126	.413	-.617
270	347	-.075	.132	.773	-.497
270	348	-.096	.120	.406	-.544
270	349	-.139	.127	.306	-.531
270	350	-.103	.151	.499	-.570
270	351	-.125	.175	.577	-.780
270	352	-.110	.188	.755	-.953
270	353	-.222	.181	.475	-.859
270	354	-.213	.150	.300	-.938
270	355	-.322	.149	.160	-1.037
270	356	-.243	.141	.210	-.988
270	357	-.244	.121	.159	-.876
270	358	-.176	.120	.249	-.688
270	359	-.168	.127	.344	-.686
270	360	-.120	.128	.464	-.556
270	361	-.134	.138	.409	-.623
270	362	-.150	.121	.304	-.595
270	363	-.201	.114	.314	-.752
270	364	-.118	.121	.751	-.531
270	365	-.149	.119	.580	-.515
270	366	-.130	.115	.561	-.505
270	367	-.155	.127	.569	-.564
270	368	-.103	.142	.767	-.563
270	369	-.146	.156	.531	-.627
270	370	-.138	.172	.720	-.805
270	371	-.205	.174	.563	-.903
270	372	-.190	.138	.393	-.756
270	373	-.329	.152	.107	-1.180
270	374	-.261	.144	.205	-.844
270	375	-.230	.121	.211	-.719
270	376	-.154	.107	.213	-.539
270	377	-.096	.101	.290	-.428
270	378	-.128	.119	.393	-.501
270	379	-.099	.127	.359	-.493
270	380	-.130	.113	.242	-.504
270	381	-.113	.090	.293	-.405
270	382	-.127	.113	.381	-.453
270	383	-.123	.114	.605	-.476
270	384	-.136	.112	.474	-.488
270	385	-.085	.114	.412	-.473
270	386	-.116	.148	.569	-.570
270	387	-.099	.155	.697	-.809
270	388	-.123	.161	.589	-.917
270	389	-.110	.137	.441	-.568
270	390	-.188	.142	.409	-.832
270	391	-.259	.158	.179	-.991
270	392	-.238	.151	.187	-1.049
270	393	-.146	.107	.195	-.617
270	394	-.156	.114	.200	-.615
270	395	-.122	.111	.222	-.505
270	396	-.113	.116	.317	-.485

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
270	397	-.062	.107	.379	-.526
270	398	-.132	.113	.277	-.478
270	399	-.153	.103	.247	-.521
270	400	-.139	.105	.296	-.531
270	401	-.086	.105	.412	-.398
270	402	-.144	.116	.409	-.515
270	403	-.138	.126	.469	-.498
270	404	-.129	.142	.631	-.631
270	405	-.084	.131	.579	-.617
270	406	-.149	.157	.571	-.767
270	407	-.180	.150	.482	-.704
270	408	-.203	.132	.402	-.701
270	409	-.206	.139	.361	-1.176
270	410	-.243	.152	.376	-1.114
270	411	-.197	.128	.374	-.729
270	412	-.171	.114	.345	-.655
270	413	-.097	.099	.218	-.468
270	414	-.152	.111	.260	-.557
270	415	-.127	.116	.307	-.583
270	416	-.141	.113	.241	-.661
270	417	-.103	.085	.159	-.436
270	418	-.152	.099	.151	-.517
270	419	-.148	.098	.198	-.514
270	420	-.153	.098	.157	-.546
270	421	-.101	.100	.253	-.495
270	422	-.163	.120	.249	-.634
270	423	-.146	.100	.530	-.253
270	424	-.179	.120	.294	-1.042
270	425	-.136	.103	.319	-.464
270	426	-.198	.121	.230	-.751
270	427	-.211	.126	.158	-.977
270	428	-.204	.122	.156	-.853
270	429	-.115	.094	.169	-.516
270	430	-.169	.105	.166	-.643
270	431	-.180	.103	.130	-.528
270	432	-.156	.101	.198	-.485
270	433	-.095	.097	.202	-.549
270	434	-.161	.111	.139	-.715
270	435	-.153	.101	.159	-.514
270	436	-.151	.099	.226	-.586
270	437	-.077	.085	.220	-.359
270	438	-.145	.096	.177	-.473
270	439	-.145	.095	.218	-.473
270	440	-.149	.095	.187	-.455
270	441	-.094	.094	.203	-.428
270	442	-.170	.108	.204	-.539
270	443	-.171	.107	.196	-.546
270	444	-.176	.107	.196	-.541
270	445	-.105	.092	.193	-.523
270	446	-.166	.104	.168	-.594
270	447	-.167	.103	.163	-.526
270	448	-.165	.103	.157	-.566
270	449	-.098	.091	.195	-.464
270	450	-.163	.103	.173	-.574
270	451	-.171	.104	.176	-.516
270	452	-.166	.103	.159	-.537
270	453	-.160	.091	.105	-.519
270	454	-.146	.098	.181	-.532
270	455	-.184	.101	.183	-.630
270	456	-.166	.101	.210	-.575
270	457	-.173	.102	.170	-.534
270	801	-.166	.090	.137	-.519
270	901	-.139	.122	.245	-.811
270	902	-.134	.125	.268	-.758
270	903	-.115	.144	.419	-.771
270	904	-.143	.139	.304	-.873
270	905	-.162	.124	.170	-.983
270	906	-.262	.224	.519	-1.462
270	907	-.258	.153	.175	-.910
270	908	-.204	.143	.284	-.814
270	909	-.401	.279	.407	-1.543
270	910	-.291	.175	.260	-1.111
270	911	.026	.221	.807	-.842
270	912	-.006	.161	.541	-.558
270	913	-.018	.201	.786	-.614
270	914	-.030	.176	.682	-.681
270	915	-.172	.091	.138	-.476
270	916	-.162	.090	.144	-.478
270	917	-.170	.087	.145	-.456
270	918	-.154	.091	.173	-.467
270	919	-.160	.095	.195	-.504
270	919	-.160	.095	.195	-.504
270	920	-.157	.092	.158	-.486
270	921	-.164	.087	.147	-.610
270	922	-.161	.091	.193	-.462
270	923	-.165	.093	.190	-.481
270	924	-.153	.090	.180	-.430
270	925	-.158	.091	.208	-.488
270	926	-.148	.096	.215	-.485
270	927	-.166	.096	.160	-.499
270	928	-.159	.095	.198	-.475
270	929	.003	.173	.581	-.584
280	1	-.159	.089	.135	-.461
280	2	-.123	.086	.152	-.416
280	3	-.147	.082	.153	-.476
280	4	-.157	.087	.180	-.498
280	5	-.140	.092	.152	-.426
280	6	-.137	.095	.183	-.443
280	7	-.136	.098	.190	-.448
280	8	-.081	.094	.242	-.409
280	9	-.127	.090	.200	-.413
280	10	-.162	.097	.207	-.503
280	11	-.138	.093	.188	-.454
280	12	-.159	.097	.202	-.468
280	13	-.147	.094	.165	-.439
280	14	-.138	.096	.183	-.446
280	15	-.157	.099	.221	-.549
280	16	-.121	.092	.229	-.475
280	101	-.184	.098	.135	-.583
280	102	-.180	.102	.149	-.575
280	103	-.190	.104	.137	-.595
280	104	-.190	.107	.142	-.628
280	105	-.187	.104	.154	-.631
280	106	-.173	.107	.179	-.635
280	107	-.168	.106	.162	-.603
280	108	-.154	.100	.168	-.551
280	109	-.169	.113	.190	-.623
280	110	-.193	.114	.152	-.750
280	111	-.184	.117	.192	-.773
280	112	-.199	.122	.233	-.793
280	113	-.202	.126	.313	-.947
280	114	-.180	.114	.166	-.599
280	115	-.158	.117	.200	-.619
280	116	-.119	.122	.257	-.611
280	117	-.113	.129	.286	-.731
280	118	-.134	.132	.288	-1.173
280	119	-.218	.162	.277	-1.406
280	120	-.429	.244	.243	-1.515
280	121	.003	.194	.669	-.924
280	122	.112	.205	.722	-.840
280	123	.221	.261	.898	-.613
280	124	.238	.288	1.041	-1.199
280	125	-.235	.134	.185	-.916
280	126	-.236	.111	.133	-.746
280	127	-.224	.113	.138	-.782
280	128	-.229	.113	.135	-.752
280	129	-.213	.111	.135	-.720
280	130	-.215	.095	.138	-.546
280	131	-.197	.096	.186	-.502
280	132	-.231	.107	.111	-.654
280	133	-.219	.120	.269	-.879
280	134	-.236	.113	.090	-.901
280	135	-.227	.121	.122	-.767
280	136	-.216	.125	.172	-.729
280	137	-.229	.121	.147	-.797
280	138	-.219	.119	.112	-.757
280	139	-.185	.121	.215	-.680
280	141	-.159	.127	.294	-.638
280	142	-.186	.133	.236	-.786
280	143	-.347	.235	.252	-1.337

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	144	-.423	.236	.252	-1.305
280	145	-.186	.161	.555	-.762
280	146	-.080	.159	.581	-.702
280	147	.044	.234	1.162	-1.044
280	148	.028	.245	1.055	-.915
280	149	-.231	.144	.227	-1.303
280	150	-.227	.132	.141	-1.333
280	151	-.208	.126	.161	-.925
280	152	-.212	.120	.148	-.858
280	153	-.204	.114	.137	-.804
280	154	-.204	.106	.203	-.648
280	155	-.188	.105	.229	-.710
280	156	-.215	.119	.222	-.762
280	157	-.225	.139	.230	-1.421
280	158	-.228	.138	.131	-.930
280	159	-.227	.151	.223	-1.120
280	160	-.242	.142	.131	-1.029
280	161	-.216	.126	.171	-.756
280	162	-.165	.095	.193	-.540
280	163	-.165	.099	.225	-.568
280	164	-.210	.108	.201	-.627
280	165	-.271	.150	.181	-1.024
280	166	-.296	.153	.121	-.968
280	167	-.214	.115	.152	-.699
280	168	-.174	.108	.202	-.654
280	169	-.096	.133	.380	-.783
280	170	-.095	.133	.444	-.666
280	171	-.168	.093	.144	-.607
280	172	-.186	.093	.146	-.617
280	173	-.163	.090	.155	-.567
280	174	-.158	.087	.095	-.555
280	175	-.159	.089	.114	-.524
280	176	-.178	.089	.094	-.504
280	177	-.154	.088	.127	-.490
280	178	-.140	.079	.198	-.427
280	179	-.149	.091	.229	-.802
280	180	-.181	.099	.208	-.817
280	181	-.165	.104	.231	-.948
280	182	-.171	.103	.127	-.877
280	183	-.172	.103	.132	-.627
280	184	-.184	.097	.102	-.548
280	185	-.155	.094	.168	-.482
280	186	-.138	.088	.173	-.434
280	187	-.142	.094	.182	-.448
280	188	-.177	.101	.146	-.594
280	189	-.177	.113	.159	-.821
280	190	-.206	.107	.134	-.676
280	191	-.184	.099	.146	-.597
280	192	-.194	.098	.178	-.606
280	193	-.168	.104	.213	-.676
280	194	-.168	.094	.272	-.639
280	195	-.151	.089	.160	-.466
280	196	-.173	.090	.128	-.550
280	197	-.144	.089	.173	-.489
280	198	-.138	.083	.127	-.512
280	199	-.137	.087	.148	-.539
280	200	-.161	.088	.121	-.573
280	201	-.136	.088	.136	-.426
280	202	-.132	.075	.196	-.385
280	203	-.135	.081	.216	-.401
280	204	-.165	.084	.200	-.493
280	205	-.142	.088	.224	-.797
280	206	-.139	.084	.146	-.457
280	207	-.133	.088	.165	-.505
280	208	-.118	.090	.268	-.427
280	209	-.133	.091	.169	-.496
280	210	-.144	.085	.155	-.458
280	211	-.149	.091	.157	-.476
280	212	-.181	.096	.135	-.548
280	213	-.157	.093	.150	-.595
280	214	-.155	.080	.127	-.425
280	215	-.161	.085	.148	-.471
280	216	-.191	.094	.228	-.477
280	217	-.142	.088	.178	-.462
280	218	-.136	.084	.137	-.472
280	219	-.131	.086	.155	-.442
280	220	-.161	.088	.126	-.484
280	221	-.134	.085	.145	-.417
280	222	-.131	.079	.108	-.409
280	223	-.127	.084	.124	-.423
280	224	-.157	.083	.097	-.455
280	225	-.134	.084	.124	-.437
280	226	-.132	.080	.129	-.466
280	227	-.131	.088	.162	-.506
280	228	-.161	.086	.121	-.514
280	229	-.137	.086	.145	-.494
280	230	-.128	.086	.165	-.452
280	231	-.124	.095	.199	-.484
280	232	-.154	.094	.181	-.500
280	233	-.130	.093	.214	-.480
280	234	-.131	.086	.131	-.474
280	235	-.131	.093	.156	-.489
280	236	-.165	.093	.132	-.523
280	237	-.143	.093	.153	-.491
280	238	-.133	.083	.135	-.448
280	239	-.161	.087	.110	-.462
280	240	-.144	.085	.131	-.439
280	241	-.139	.085	.162	-.408
280	242	-.119	.088	.186	-.394
280	243	-.144	.092	.166	-.437
280	244	-.124	.085	.158	-.401
280	245	-.120	.089	.219	-.444
280	246	-.117	.085	.172	-.414
280	247	-.143	.086	.143	-.430
280	248	-.124	.085	.167	-.405
280	249	-.139	.087	.133	-.420
280	250	-.119	.090	.164	-.409
280	251	-.148	.090	.126	-.444
280	252	-.128	.089	.147	-.412
280	253	-.137	.084	.167	-.438
280	254	-.113	.087	.203	-.423
280	255	-.141	.084	.126	-.492
280	256	-.129	.085	.160	-.419
280	257	-.150	.083	.162	-.443
280	258	-.129	.089	.206	-.435
280	259	-.158	.087	.174	-.455
280	260	-.123	.087	.161	-.471
280	261	-.148	.086	.138	-.506
280	262	-.127	.089	.177	-.495
280	263	-.147	.084	.170	-.441
280	264	-.125	.083	.185	-.423
280	265	-.142	.086	.139	-.423
280	266	-.123	.087	.163	-.413
280	267	-.151	.091	.153	-.455
280	268	-.155	.089	.148	-.501
280	269	-.134	.081	.155	-.397
280	270	-.116	.084	.162	-.393
280	271	-.147	.083	.124	-.419
280	272	-.125	.080	.131	-.384
280	273	-.141	.078	.146	-.381
280	274	-.122	.082	.189	-.379
280	275	-.154	.083	.144	-.434
280	276	-.128	.081	.179	-.380
280	277	-.134	.088	.176	-.425
280	278	-.114	.089	.206	-.404
280	279	-.150	.091	.173	-.463
280	280	-.126	.087	.183	-.406
280	281	-.145	.083	.155	-.496
280	282	-.127	.085	.187	-.491
280	283	-.157	.086	.160	-.489
280	284	-.133	.082	.162	-.442
280	285	-.122	.087	.145	-.471
280	286	-.159	.092	.127	-.502
280	301	-.086	.274	.806	-1.439
280	302	-.038	.223	.730	-1.102
280	303	-.054	.172	.701	-.782
280	304	-.033	.149	.590	-.606
280	305	-.076	.137	.446	-.759
280	306	-.087	.134	.359	-.766
280	307	-.137	.129	.343	-1.030

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	308	-.107	.124	.319	-1.070
280	309	-.171	.108	.175	-.577
280	310	-.126	.250	.807	-1.083
280	311	-.072	.204	.728	-.831
280	312	-.039	.172	.631	-.556
280	313	-.064	.151	.520	-.580
280	314	-.068	.139	.516	-.553
280	315	-.169	.132	.304	-.680
280	316	-.191	.129	.291	-.789
280	317	.095	.202	.920	-.512
280	318	.030	.202	.915	-.578
280	319	-.224	.254	.679	-1.214
280	320	-.112	.180	.628	-.985
280	321	-.069	.173	.611	-.664
280	322	-.086	.160	.503	-.601
280	323	-.178	.151	.323	-.799
280	324	-.248	.152	.194	-.935
280	325	-.325	.154	.122	-1.282
280	326	-.268	.149	.224	-1.037
280	327	-.015	.202	.675	-.825
280	328	.054	.190	.692	-.758
280	329	.039	.177	.695	-.597
280	330	.046	.166	.662	-.405
280	331	-.032	.153	.657	-.465
280	332	-.049	.153	.667	-.478
280	333	-.113	.169	.714	-.614
280	334	-.213	.216	.677	-1.005
280	335	-.512	.379	.331	-2.274
280	336	-.327	.210	.298	-1.437
280	337	-.470	.248	.130	-1.964
280	338	-.373	.227	.191	-1.410
280	339	-.373	.194	.268	-1.113
280	340	-.262	.151	.245	-.804
280	341	-.277	.150	.171	-.855
280	342	-.231	.141	.295	-.793
280	343	-.246	.161	.384	-.893
280	344	-.212	.146	.311	-.809
280	345	-.148	.129	.281	-.605
280	346	-.107	.129	.305	-.597
280	347	-.049	.119	.434	-.655
280	348	-.087	.125	.322	-.530
280	349	-.142	.118	.303	-.584
280	350	-.144	.123	.338	-.561
280	351	-.214	.136	.411	-.669
280	352	-.232	.158	.323	-.923
280	353	-.380	.235	.334	-1.467
280	354	-.298	.198	.292	-1.415
280	355	-.337	.180	.240	-1.215
280	356	-.271	.167	.262	-1.076
280	357	-.279	.147	.175	-1.155
280	358	-.210	.125	.223	-.876
280	359	-.214	.118	.203	-.787
280	360	-.156	.114	.296	-.608
280	361	-.179	.119	.299	-.674
280	362	-.181	.118	.203	-.866
280	363	-.217	.112	.255	-.620
280	364	-.161	.107	.311	-.567
280	365	-.166	.106	.271	-.583
280	366	-.151	.109	.300	-.592
280	367	-.184	.112	.246	-.658
280	368	-.143	.109	.310	-.566
280	369	-.194	.108	.154	-.553
280	370	-.205	.123	.205	-.687
280	371	-.282	.155	.209	-1.125
280	372	-.214	.137	.266	-.915
280	373	-.249	.129	.200	-.885
280	374	-.219	.129	.229	-.833
280	375	-.239	.126	.174	-.862
280	376	-.172	.113	.175	-.704
280	377	-.069	.083	.208	-.384
280	378	-.138	.097	.216	-.495
280	379	-.164	.100	.223	-.494
280	380	-.150	.096	.161	-.477
280	381	-.072	.085	.215	-.382
280	382	-.140	.100	.202	-.633
280	383	-.164	.099	.194	-.499
280	384	-.148	.098	.201	-.542
280	385	-.056	.084	.236	-.430
280	386	-.172	.102	.232	-.570
280	387	-.162	.107	.324	-.590
280	388	-.154	.109	.381	-.552
280	389	-.085	.098	.226	-.644
280	390	-.159	.114	.236	-.620
280	391	-.198	.115	.156	-.836
280	392	-.168	.111	.169	-.653
280	393	-.079	.096	.230	-.637
280	394	-.143	.110	.207	-.772
280	395	-.169	.107	.206	-.577
280	396	-.140	.105	.239	-.530
280	397	-.049	.081	.216	-.318
280	398	-.127	.095	.180	-.481
280	399	-.163	.096	.150	-.541
280	400	-.130	.093	.189	-.460
280	401	-.048	.083	.216	-.346
280	402	-.125	.098	.198	-.498
280	403	-.158	.103	.221	-.605
280	404	-.134	.102	.232	-.492
280	405	-.059	.094	.338	-.422
280	406	-.142	.113	.315	-.652
280	407	-.184	.116	.289	-.667
280	408	-.154	.112	.289	-.677
280	409	-.077	.093	.266	-.504
280	410	-.146	.108	.260	-.622
280	411	-.175	.111	.233	-.585
280	412	-.143	.105	.246	-.559
280	413	-.054	.097	.235	-.464
280	414	-.126	.088	.177	-.506
280	415	-.161	.115	.175	-.738
280	416	-.137	.113	.192	-.746
280	417	-.051	.083	.259	-.365
280	418	-.120	.099	.229	-.486
280	419	-.152	.101	.208	-.528
280	420	-.127	.098	.203	-.489
280	421	-.047	.086	.277	-.383
280	422	-.120	.102	.234	-.462
280	423	.146	.090	.427	-.173
280	424	-.140	.103	.191	-.532
280	425	-.066	.085	.256	-.339
280	426	-.137	.102	.246	-.481
280	427	-.173	.101	.208	-.502
280	428	-.144	.098	.232	-.449
280	429	-.057	.079	.184	-.414
280	430	-.127	.091	.153	-.643
280	431	-.158	.091	.130	-.539
280	432	-.134	.089	.156	-.569
280	433	-.055	.084	.204	-.358
280	434	-.126	.100	.180	-.483
280	435	-.159	.100	.149	-.499
280	436	-.106	.095	.166	-.460
280	437	-.050	.081	.214	-.347
280	438	-.122	.095	.200	-.470
280	439	-.159	.098	.175	-.519
280	440	-.130	.096	.212	-.479
280	441	-.037	.083	.259	-.381
280	442	-.115	.096	.256	-.521
280	443	-.154	.097	.214	-.564
280	444	-.127	.094	.222	-.531
280	445	-.062	.089	.263	-.341
280	446	-.130	.102	.247	-.456
280	447	-.169	.104	.210	-.507
280	448	-.139	.100	.227	-.457
280	449	-.058	.083	.236	-.346
280	450	-.127	.097	.207	-.456
280	451	-.158	.097	.148	-.565
280	452	-.123	.094	.167	-.510
280	453	-.152	.083	.148	-.433
280	454	-.109	.087	.209	-.408
280	455	-.161	.091	.175	-.477
280	456	-.125	.086	.172	-.411
280	457	-.154	.087	.155	-.455

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
280	801	-.133	.081	.123	-.420
280	901	-.113	.112	.202	-.752
280	902	-.088	.102	.216	-.558
280	903	-.046	.115	.304	-.658
280	904	-.096	.103	.252	-.585
280	905	-.142	.135	.280	-1.007
280	906	-.335	.174	.446	-.961
280	907	-.174	.113	.204	-.860
280	908	-.120	.116	.297	-.670
280	909	-.205	.208	.382	-1.211
280	910	-.160	.138	.220	-.796
280	911	-.089	.195	.931	-.831
280	912	-.021	.137	.574	-.437
280	913	-.087	.187	.607	-.805
280	914	-.041	.151	.548	-.656
280	915	-.152	.087	.161	-.507
280	916	-.127	.086	.175	-.484
280	917	-.142	.083	.156	-.416
280	918	-.123	.085	.179	-.393
280	919	-.120	.088	.150	-.454
280	919	-.120	.088	.150	-.454
280	920	-.129	.085	.163	-.392
280	921	-.155	.082	.114	-.431
280	922	-.126	.088	.163	-.422
280	923	-.146	.090	.121	-.449
280	924	-.125	.086	.133	-.417
280	925	-.119	.086	.185	-.433
280	926	-.112	.085	.148	-.443
280	927	-.144	.088	.117	-.508
280	928	-.122	.084	.134	-.455
280	929	-.020	.137	.544	-.525
290	1	-.134	.091	.225	-.455
290	2	-.108	.088	.234	-.435
290	3	-.127	.082	.123	-.434
290	4	-.130	.086	.161	-.438
290	5	-.108	.095	.203	-.416
290	6	-.121	.097	.200	-.429
290	7	-.133	.098	.190	-.435
290	8	-.080	.088	.222	-.400
290	9	-.105	.084	.155	-.389
290	10	-.150	.091	.133	-.513
290	11	-.144	.089	.140	-.464
290	12	-.156	.092	.160	-.501
290	13	-.105	.093	.197	-.406
290	14	-.115	.096	.196	-.425
290	15	-.127	.095	.205	-.492
290	16	-.101	.089	.208	-.418
290	101	-.144	.095	.169	-.507
290	102	-.158	.099	.152	-.533
290	103	-.176	.101	.118	-.611
290	104	-.167	.104	.122	-.594
290	105	-.152	.092	.147	-.461
290	106	-.162	.097	.167	-.594
290	107	-.180	.097	.175	-.504
290	108	-.156	.101	.196	-.791
290	109	-.186	.109	.169	-.573
290	110	-.163	.108	.192	-.587
290	111	-.177	.111	.173	-.629
290	112	-.209	.118	.195	-.722
290	113	-.206	.123	.139	-.711
290	114	-.129	.110	.382	-.621
290	115	-.119	.116	.432	-.671
290	116	-.073	.126	.406	-.543
290	117	-.050	.131	.425	-.575
290	118	-.045	.133	.479	-.618
290	119	-.130	.170	.560	-.992
290	120	-.330	.249	.465	-1.733
290	121	.068	.201	.840	-.660
290	122	.167	.193	.790	-.440
290	123	.254	.223	1.002	-.462
290	124	.266	.236	.990	-.487
290	125	-.219	.128	.223	-.840
290	126	-.201	.108	.141	-.617
290	127	-.213	.108	.113	-.597
290	128	-.233	.110	.090	-.665
290	129	-.206	.104	.132	-.568
290	130	-.178	.109	.200	-.552
290	131	-.194	.109	.217	-.616
290	132	-.220	.105	.137	-.614
290	133	-.236	.136	.201	-.862
290	134	-.214	.143	.215	-.909
290	135	-.236	.153	.202	-1.050
290	136	-.218	.127	.178	-.786
290	137	-.250	.154	.246	-.931
290	138	-.185	.121	.289	-.662
290	139	-.172	.121	.312	-.662
290	141	-.138	.122	.332	-.611
290	142	-.150	.133	.254	-.833
290	143	-.339	.230	.261	-1.305
290	144	-.405	.229	.243	-1.306
290	145	-.214	.150	.308	-.759
290	146	-.072	.132	.464	-.476
290	147	.033	.184	.783	-.698
290	148	.008	.212	.859	-.756
290	149	-.204	.140	.198	-.986
290	150	-.175	.113	.163	-.652
290	151	-.188	.116	.181	-.595
290	152	-.211	.113	.130	-.724
290	153	-.185	.107	.149	-.562
290	154	-.153	.100	.198	-.502
290	155	-.170	.104	.179	-.577
290	156	-.233	.130	.120	-1.022
290	157	-.235	.154	.127	-1.480
290	158	-.227	.143	.175	-1.014
290	159	-.245	.149	.145	-1.129
290	160	-.286	.149	.171	-1.015
290	161	-.220	.126	.155	-.714
290	162	-.165	.103	.136	-.576
290	163	-.142	.103	.255	-.512
290	164	-.206	.115	.128	-.804
290	165	-.231	.143	.155	-.996
290	166	-.248	.145	.153	-1.031
290	167	-.196	.114	.187	-.730
290	168	-.204	.108	.318	-.640
290	169	-.151	.125	.543	-.857
290	170	-.176	.123	.353	-.750
290	171	-.155	.104	.199	-.960
290	172	-.192	.105	.172	-.847
290	173	-.149	.099	.187	-.546
290	174	-.142	.091	.157	-.508
290	175	-.134	.092	.165	-.506
290	176	-.171	.094	.139	-.532
290	177	-.136	.093	.179	-.490
290	178	-.143	.082	.167	-.428
290	179	-.141	.088	.188	-.538
290	180	-.188	.094	.164	-.715
290	181	-.158	.096	.206	-.742
290	182	-.163	.091	.180	-.634
290	183	-.170	.101	.176	-.709
290	184	-.178	.099	.168	-.586
290	185	-.130	.099	.184	-.510
290	186	-.117	.092	.228	-.421
290	187	-.115	.092	.204	-.434
290	188	-.170	.095	.147	-.474
290	189	-.148	.099	.199	-.526
290	190	-.142	.089	.158	-.569
290	191	-.136	.091	.167	-.713
290	192	-.180	.093	.126	-.582
290	193	-.159	.095	.156	-.557
290	194	-.172	.101	.188	-.703
290	195	-.120	.092	.220	-.486
290	196	-.161	.094	.192	-.544
290	197	-.125	.093	.247	-.418
290	198	-.131	.089	.206	-.407
290	199	-.124	.094	.235	-.413
290	200	-.167	.097	.202	-.465
290	201	-.131	.096	.235	-.449
290	202	-.131	.089	.190	-.478
290	203	-.123	.093	.191	-.494
290	204	-.171	.096	.157	-.550

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	205	-.138	.099	.180	-.522
290	206	-.157	.090	.166	-.466
290	207	-.110	.092	.196	-.455
290	208	-.089	.101	.291	-.377
290	209	-.100	.101	.232	-.468
290	210	-.134	.093	.206	-.425
290	211	-.134	.096	.220	-.459
290	212	-.187	.103	.190	-.549
290	213	-.156	.102	.216	-.550
290	214	-.153	.085	.133	-.516
290	215	-.145	.090	.168	-.506
290	216	-.171	.095	.114	-.553
290	217	-.128	.090	.166	-.520
290	218	-.123	.083	.159	-.429
290	219	-.113	.086	.191	-.436
290	220	-.164	.089	.152	-.495
290	221	-.125	.086	.178	-.440
290	222	-.117	.090	.186	-.454
290	223	-.108	.094	.203	-.460
290	224	-.160	.097	.164	-.506
290	225	-.125	.097	.204	-.481
290	226	-.125	.083	.154	-.437
290	227	-.117	.090	.186	-.445
290	228	-.171	.089	.114	-.494
290	229	-.151	.094	.171	-.596
290	230	-.111	.094	.294	-.492
290	231	-.087	.104	.324	-.486
290	232	-.132	.106	.317	-.529
290	233	-.105	.102	.292	-.486
290	234	-.118	.089	.200	-.420
290	235	-.119	.095	.219	-.440
290	236	-.178	.096	.160	-.498
290	237	-.147	.097	.184	-.529
290	238	-.140	.090	.119	-.467
290	239	-.172	.094	.103	-.475
290	240	-.146	.092	.120	-.490
290	241	-.128	.091	.163	-.432
290	242	-.106	.094	.203	-.429
290	243	-.140	.100	.195	-.501
290	244	-.114	.093	.190	-.433
290	245	-.108	.088	.168	-.400
290	246	-.107	.094	.245	-.439
290	247	-.143	.096	.216	-.487
290	248	-.119	.094	.239	-.469
290	249	-.123	.090	.125	-.462
290	250	-.105	.093	.164	-.448
290	251	-.142	.093	.138	-.495
290	252	-.121	.093	.138	-.454
290	253	-.118	.090	.156	-.455
290	254	-.093	.093	.174	-.433
290	255	-.123	.087	.249	-.378
290	256	-.115	.090	.153	-.438
290	257	-.139	.089	.171	-.453
290	258	-.126	.093	.213	-.452
290	259	-.169	.093	.151	-.507
290	260	-.122	.092	.207	-.475
290	261	-.149	.092	.161	-.477
290	262	-.129	.094	.178	-.455
290	263	-.145	.095	.177	-.507
290	264	-.118	.094	.197	-.480
290	265	-.131	.082	.131	-.431
290	266	-.111	.084	.161	-.413
290	267	-.147	.088	.136	-.460
290	268	-.132	.091	.187	-.425
290	269	-.120	.086	.266	-.427
290	270	-.101	.089	.299	-.417
290	271	-.140	.091	.279	-.466
290	272	-.111	.087	.291	-.446
290	273	-.128	.080	.158	-.390
290	274	-.107	.086	.204	-.384
290	275	-.145	.087	.175	-.423
290	276	-.112	.084	.197	-.379
290	277	-.122	.093	.226	-.412
290	278	-.101	.095	.240	-.387
290	279	-.142	.096	.205	-.423
290	280	-.122	.092	.206	-.377
290	281	-.134	.081	.163	-.454
290	282	-.117	.084	.190	-.442
290	283	-.155	.084	.156	-.470
290	284	-.127	.080	.167	-.432
290	285	-.117	.091	.192	-.412
290	286	-.145	.082	.152	-.441
290	301	-.084	.195	.602	-.848
290	302	-.055	.170	.503	-.927
290	303	-.068	.137	.399	-.647
290	304	-.038	.115	.418	-.472
290	305	-.058	.111	.324	-.514
290	306	-.089	.112	.315	-.632
290	307	-.149	.110	.231	-.526
290	308	-.110	.107	.273	-.443
290	309	-.130	.096	.222	-.450
290	310	-.129	.183	.548	-1.014
290	311	-.094	.147	.434	-.644
290	312	-.054	.142	.578	-.594
290	313	-.032	.116	.409	-.402
290	314	-.060	.115	.393	-.431
290	315	-.170	.119	.331	-.664
290	316	-.190	.122	.257	-.748
290	317	.175	.185	.911	-.396
290	318	.113	.174	.777	-.402
290	319	-.234	.200	.421	-1.069
290	320	-.113	.145	.431	-.775
290	321	-.066	.143	.399	-.678
290	322	-.071	.125	.435	-.512
290	323	-.171	.120	.259	-.589
290	324	-.232	.125	.204	-.759
290	325	-.268	.131	.148	-.846
290	326	-.247	.127	.164	-.841
290	327	.033	.197	.870	-.683
290	328	.095	.187	.848	-.493
290	329	.097	.166	.781	-.371
290	330	.100	.167	.806	-.383
290	331	.043	.159	.734	-.412
290	332	.032	.156	.687	-.443
290	333	.001	.157	.722	-.430
290	334	-.161	.178	.630	-.863
290	335	-.573	.343	.168	-1.627
290	336	-.297	.166	.241	-1.008
290	337	-.454	.234	.129	-1.611
290	338	-.397	.208	.127	-1.225
290	339	-.401	.187	.131	-1.121
290	340	-.288	.152	.157	-.850
290	341	-.252	.125	.134	-.705
290	342	-.231	.122	.153	-.644
290	343	-.268	.133	.202	-.745
290	344	-.221	.126	.285	-.722
290	345	-.110	.115	.394	-.536
290	346	-.097	.118	.428	-.540
290	347	-.052	.110	.374	-.420
290	348	-.079	.117	.432	-.469
290	349	-.069	.113	.408	-.540
290	350	-.091	.116	.461	-.516
290	351	-.179	.123	.357	-.589
290	352	-.216	.137	.221	-.793
290	353	-.382	.208	.150	-1.427
290	354	-.293	.165	.265	-1.277
290	355	-.361	.157	.062	-1.314
290	356	-.289	.149	.136	-.966
290	357	-.260	.146	.125	-.966
290	358	-.212	.136	.160	-.929
290	359	-.223	.134	.198	-.885
290	360	-.155	.123	.358	-.696
290	361	-.142	.115	.281	-.568
290	362	-.157	.116	.260	-.664
290	363	-.194	.103	.225	-.518
290	364	-.137	.099	.215	-.443
290	365	-.127	.090	.195	-.445
290	366	-.134	.095	.213	-.450
290	367	-.173	.100	.179	-.505
290	368	-.123	.098	.240	-.484

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
290	369	-.142	.098	.155	-.491
290	370	-.178	.113	.183	-.632
290	371	-.273	.146	.134	-.944
290	372	-.186	.115	.159	-.727
290	373	-.205	.119	.195	-.719
290	374	-.196	.123	.310	-.789
290	375	-.213	.121	.249	-.885
290	376	-.138	.103	.297	-.655
290	377	-.054	.091	.230	-.460
290	378	-.113	.105	.291	-.472
290	379	-.155	.112	.537	-.612
290	380	-.131	.105	.322	-.607
290	381	-.070	.092	.235	-.481
290	382	-.130	.106	.230	-.481
290	383	-.172	.107	.181	-.541
290	384	-.142	.104	.203	-.521
290	385	-.054	.096	.315	-.380
290	386	-.143	.097	.168	-.473
290	387	-.164	.117	.274	-.589
290	388	-.137	.114	.297	-.545
290	389	-.068	.087	.218	-.402
290	390	-.125	.101	.230	-.601
290	391	-.172	.103	.182	-.743
290	392	-.134	.099	.223	-.629
290	393	-.056	.082	.195	-.349
290	394	-.111	.092	.192	-.444
290	395	-.156	.092	.132	-.469
290	396	-.119	.090	.164	-.427
290	397	-.044	.078	.236	-.299
290	398	-.108	.092	.227	-.454
290	399	-.173	.098	.209	-.568
290	400	-.130	.093	.230	-.509
290	401	-.052	.085	.200	-.344
290	402	-.115	.099	.191	-.531
290	403	-.162	.104	.169	-.562
290	404	-.125	.099	.178	-.527
290	405	-.052	.086	.231	-.318
290	406	-.116	.098	.194	-.410
290	407	-.167	.102	.166	-.518
290	408	-.128	.098	.199	-.443
290	409	-.054	.083	.227	-.372
290	410	-.110	.097	.222	-.482
290	411	-.155	.102	.184	-.542
290	412	-.117	.096	.191	-.478
290	413	-.047	.082	.256	-.365
290	414	-.106	.087	.195	-.409
290	415	-.157	.097	.197	-.545
290	416	-.122	.095	.227	-.490
290	417	-.059	.081	.181	-.348
290	418	-.113	.095	.164	-.451
290	419	-.160	.097	.133	-.512
290	420	-.126	.093	.150	-.464
290	421	-.052	.084	.237	-.317
290	422	-.108	.098	.231	-.423
290	423	-.152	.085	.457	-.109
290	424	-.126	.096	.235	-.425
290	425	-.058	.078	.216	-.358
290	426	-.114	.093	.230	-.535
290	427	-.164	.093	.180	-.540
290	428	-.124	.090	.199	-.482
290	429	-.048	.086	.211	-.412
290	430	-.103	.098	.191	-.531
290	431	-.137	.080	.195	-.412
290	432	-.116	.098	.184	-.539
290	433	-.047	.079	.227	-.335
290	434	-.104	.092	.222	-.444
290	435	-.157	.096	.178	-.484
290	436	-.102	.084	.228	-.394
290	437	-.043	.089	.284	-.325
290	438	-.099	.103	.280	-.422
290	439	-.151	.107	.244	-.490
290	440	-.111	.104	.268	-.437
290	441	-.046	.085	.258	-.328
290	442	-.102	.099	.239	-.442
290	443	-.155	.103	.201	-.505
290	444	-.118	.099	.228	-.461
290	445	-.052	.083	.222	-.325
290	446	-.103	.094	.209	-.428
290	447	-.157	.097	.162	-.485
290	448	-.118	.094	.181	-.434
290	449	-.049	.084	.201	-.317
290	450	-.103	.097	.194	-.415
290	451	-.131	.085	.214	-.433
290	452	-.107	.083	.234	-.391
290	453	-.130	.085	.119	-.423
290	454	-.095	.090	.171	-.406
290	455	-.125	.093	.158	-.436
290	456	-.102	.090	.172	-.391
290	457	-.137	.084	.118	-.426
290	801	-.126	.084	.135	-.409
290	901	-.120	.123	.285	-.737
290	902	-.084	.107	.267	-.562
290	903	-.056	.112	.327	-.460
290	904	-.095	.101	.221	-.428
290	905	-.159	.151	.304	-.893
290	906	-.340	.157	.162	-1.009
290	907	-.163	.106	.166	-.578
290	908	-.113	.105	.314	-.503
290	909	-.149	.161	.302	-.908
290	910	-.127	.131	.291	-.598
290	911	-.143	.165	.485	-.871
290	912	-.017	.122	.476	-.462
290	913	-.112	.173	.528	-.857
290	914	-.026	.143	.582	-.558
290	915	-.157	.093	.108	-.473
290	916	-.123	.092	.153	-.443
290	917	-.118	.086	.191	-.420
290	918	-.097	.089	.219	-.400
290	919	-.106	.086	.191	-.416
290	919	-.106	.086	.191	-.416
290	920	-.106	.088	.210	-.407
290	921	-.135	.084	.193	-.426
290	922	-.121	.087	.162	-.418
290	923	-.143	.089	.158	-.442
290	924	-.116	.085	.152	-.399
290	925	-.110	.087	.233	-.419
290	926	-.101	.084	.158	-.422
290	927	-.146	.087	.125	-.468
290	928	-.112	.083	.141	-.423
290	929	-.026	.112	.381	-.503
300	1	-.132	.092	.196	-.453
300	2	-.101	.089	.210	-.415
300	3	-.138	.089	.198	-.464
300	4	-.133	.082	.140	-.424
300	5	-.079	.090	.226	-.374
300	6	-.106	.094	.205	-.418
300	7	-.123	.098	.211	-.438
300	8	-.062	.088	.228	-.385
300	9	-.066	.090	.211	-.366
300	10	-.146	.102	.184	-.511
300	11	-.138	.097	.174	-.449
300	12	-.140	.099	.171	-.483
300	13	-.075	.092	.190	-.398
300	14	-.099	.096	.202	-.432
300	15	-.134	.092	.173	-.470
300	16	-.103	.086	.182	-.412
300	101	-.129	.093	.191	-.454
300	102	-.156	.098	.183	-.503
300	103	-.187	.101	.130	-.569
300	104	-.170	.103	.164	-.726
300	105	-.130	.098	.172	-.502
300	106	-.152	.104	.186	-.553
300	107	-.183	.108	.166	-.591
300	108	-.149	.101	.178	-.523
300	109	-.178	.116	.225	-.623
300	110	-.151	.115	.226	-.604
300	111	-.178	.120	.190	-.618
300	112	-.243	.133	.192	-.801
300	113	-.246	.147	.159	-1.040
300	114	-.104	.109	.234	-.567

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	115	-.082	.117	.331	-.652
300	116	-.096	.135	.517	-.498
300	117	.036	.144	.529	-.657
300	118	.061	.136	.484	-.661
300	119	.023	.159	.597	-.766
300	120	-.064	.189	.604	-.750
300	121	.188	.221	1.048	-.720
300	122	.267	.232	.901	-.414
300	123	.254	.253	1.039	-.439
300	124	.213	.254	.994	-.497
300	125	-.219	.114	.116	-.643
300	126	-.184	.113	.207	-.746
300	127	-.203	.116	.240	-.741
300	128	-.236	.117	.213	-.834
300	129	-.203	.114	.221	-.763
300	130	-.161	.092	.172	-.497
300	131	-.184	.098	.224	-.522
300	132	-.226	.104	.136	-.607
300	133	-.212	.120	.227	-.724
300	134	-.196	.122	.165	-.768
300	135	-.224	.135	.174	-.798
300	136	-.227	.125	.176	-.810
300	137	-.271	.148	.109	-.957
300	138	-.177	.119	.219	-.616
300	139	-.135	.126	.331	-.583
300	141	-.067	.132	.476	-.510
300	142	-.055	.110	.389	-.828
300	143	-.152	.156	.325	-.856
300	144	-.219	.166	.290	-.948
300	145	-.118	.120	.287	-.658
300	146	-.050	.128	.406	-.498
300	147	-.013	.162	.659	-.693
300	148	-.051	.172	.672	-.846
300	149	-.202	.147	.232	-.982
300	150	-.158	.115	.167	-.763
300	151	-.167	.115	.224	-.766
300	152	-.199	.112	.173	-.767
300	153	-.171	.108	.176	-.730
300	154	-.144	.097	.195	-.439
300	155	-.164	.105	.200	-.559
300	156	-.238	.129	.176	-.882
300	157	-.226	.139	.325	-.997
300	158	-.210	.139	.248	-1.295
300	159	-.226	.142	.273	-.932
300	160	-.318	.157	.201	-1.006
300	161	-.191	.130	.294	-.659
300	162	-.110	.115	.314	-.539
300	163	-.074	.120	.393	-.472
300	164	-.163	.112	.232	-.532
300	165	-.153	.112	.215	-.623
300	166	-.153	.106	.185	-.568
300	167	-.143	.103	.221	-.605
300	168	-.194	.105	.168	-.655
300	169	-.146	.104	.188	-.572
300	170	-.141	.102	.228	-.527
300	171	-.126	.097	.181	-.613
300	172	-.183	.100	.144	-.592
300	173	-.132	.095	.186	-.556
300	174	-.134	.094	.165	-.467
300	175	-.129	.097	.181	-.471
300	176	-.187	.102	.140	-.534
300	177	-.138	.101	.222	-.488
300	178	-.142	.088	.212	-.456
300	179	-.144	.098	.168	-.536
300	180	-.212	.104	.128	-.757
300	181	-.166	.104	.184	-1.076
300	182	-.148	.098	.136	-.641
300	183	-.168	.114	.158	-.741
300	184	-.174	.110	.180	-.585
300	185	-.097	.109	.276	-.530
300	186	-.074	.098	.309	-.444
300	187	-.077	.096	.306	-.405
300	188	-.172	.096	.205	-.505
300	189	-.132	.094	.252	-.530
300	190	-.131	.085	.113	-.390
300	191	-.131	.091	.138	-.492
300	192	-.202	.095	.086	-.575
300	193	-.147	.092	.148	-.518
300	194	-.137	.095	.204	-.502
300	195	-.105	.099	.251	-.425
300	196	-.176	.103	.184	-.513
300	197	-.122	.102	.237	-.472
300	198	-.121	.088	.186	-.407
300	199	-.114	.093	.210	-.440
300	200	-.186	.097	.148	-.506
300	201	-.129	.095	.199	-.446
300	202	-.138	.098	.145	-.510
300	203	-.125	.101	.175	-.499
300	204	-.201	.107	.107	-.596
300	205	-.153	.108	.180	-.534
300	206	-.183	.113	.132	-.716
300	207	-.078	.102	.293	-.489
300	208	-.057	.111	.343	-.409
300	209	-.054	.120	.529	-.519
300	210	-.115	.092	.172	-.464
300	211	-.112	.092	.198	-.431
300	212	-.193	.100	.144	-.559
300	213	-.142	.097	.194	-.512
300	214	-.138	.094	.174	-.515
300	215	-.117	.093	.194	-.449
300	216	-.154	.094	.181	-.526
300	217	-.122	.097	.210	-.461
300	218	-.121	.094	.218	-.448
300	219	-.107	.098	.241	-.461
300	220	-.186	.104	.191	-.559
300	221	-.132	.101	.229	-.481
300	222	-.127	.086	.198	-.435
300	223	-.111	.090	.216	-.447
300	224	-.191	.095	.168	-.540
300	225	-.136	.095	.261	-.696
300	226	-.139	.095	.159	-.637
300	227	-.122	.102	.225	-.674
300	228	-.209	.104	.118	-.711
300	229	-.210	.131	.150	-1.128
300	230	-.102	.094	.253	-.495
300	231	-.049	.108	.497	-.466
300	232	-.109	.114	.352	-.517
300	233	-.078	.104	.313	-.456
300	234	-.113	.091	.242	-.386
300	235	-.107	.095	.304	-.452
300	236	-.192	.097	.230	-.548
300	237	-.140	.096	.269	-.546
300	238	-.119	.092	.153	-.466
300	239	-.152	.094	.123	-.463
300	240	-.123	.091	.203	-.423
300	241	-.115	.088	.207	-.389
300	242	-.095	.091	.249	-.384
300	243	-.137	.096	.246	-.434
300	244	-.109	.089	.223	-.384
300	245	-.110	.089	.176	-.428
300	246	-.103	.093	.167	-.436
300	247	-.147	.095	.115	-.478
300	248	-.123	.094	.148	-.496
300	249	-.137	.088	.182	-.442
300	250	-.117	.092	.213	-.432
300	251	-.161	.092	.159	-.468
300	252	-.155	.097	.162	-.544
300	253	-.117	.092	.166	-.418
300	254	-.075	.095	.228	-.385
300	255	-.102	.084	.208	-.428
300	256	-.094	.091	.239	-.413
300	257	-.122	.082	.174	-.380
300	258	-.111	.087	.168	-.388
300	259	-.164	.088	.124	-.456
300	260	-.119	.085	.160	-.492
300	261	-.125	.090	.199	-.480
300	262	-.105	.091	.218	-.466
300	263	-.132	.090	.159	-.507
300	264	-.103	.089	.184	-.471
300	265	-.113	.084	.175	-.408

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	266	-.094	.085	.196	-.389
300	267	-.134	.090	.183	-.446
300	268	-.135	.085	.136	-.475
300	269	-.121	.093	.181	-.486
300	270	-.106	.096	.198	-.478
300	271	-.158	.099	.180	-.529
300	272	-.131	.096	.188	-.483
300	273	-.133	.078	.133	-.426
300	274	-.111	.083	.167	-.428
300	275	-.158	.084	.129	-.495
300	276	-.107	.081	.149	-.431
300	277	-.106	.085	.146	-.414
300	278	-.076	.086	.196	-.371
300	279	-.125	.088	.135	-.420
300	280	-.101	.084	.193	-.411
300	281	-.114	.078	.133	-.418
300	282	-.102	.081	.147	-.408
300	283	-.150	.082	.099	-.456
300	284	-.118	.078	.124	-.407
300	285	-.108	.081	.165	-.457
300	286	-.136	.084	.149	-.456
300	301	-.258	.166	.370	-.860
300	302	-.251	.183	.340	-.990
300	303	-.230	.179	.283	-.956
300	304	-.107	.119	.323	-.724
300	305	-.091	.100	.245	-.479
300	306	-.113	.101	.278	-.480
300	307	-.169	.101	.197	-.532
300	308	-.124	.098	.221	-.445
300	309	-.145	.095	.204	-.492
300	310	-.186	.151	.533	-.751
300	311	-.201	.141	.466	-.646
300	312	-.152	.130	.419	-.585
300	313	-.084	.105	.229	-.570
300	314	-.101	.104	.233	-.588
300	315	-.189	.108	.154	-.674
300	316	-.180	.110	.173	-.698
300	317	.096	.176	.693	-.503
300	318	.009	.152	.647	-.408
300	319	-.309	.185	.438	-1.156
300	320	-.180	.123	.349	-.619
300	321	-.129	.130	.487	-.678
300	322	-.117	.111	.232	-.483
300	323	-.199	.110	.185	-.570
300	324	-.218	.110	.113	-.627
300	325	-.207	.106	.118	-.785
300	326	-.207	.111	.107	-.814
300	327	-.107	.160	.661	-.737
300	328	-.045	.157	.693	-.728
300	329	-.008	.147	.537	-.474
300	330	.015	.163	.699	-.559
300	331	-.035	.147	.599	-.465
300	332	-.017	.149	.820	-.437
300	333	-.041	.143	.636	-.461
300	334	-.159	.152	.499	-.727
300	335	-.460	.258	.206	-1.692
300	336	-.256	.137	.209	-.950
300	337	-.317	.161	.119	-1.128
300	338	-.308	.154	.146	-1.035
300	339	-.322	.138	.084	-.939
300	340	-.238	.123	.119	-.764
300	341	-.219	.113	.113	-.619
300	342	-.218	.114	.131	-.637
300	343	-.264	.123	.146	-.839
300	344	-.213	.117	.147	-.696
300	345	-.111	.095	.235	-.460
300	346	-.110	.101	.321	-.488
300	347	-.079	.103	.324	-.390
300	348	-.092	.101	.359	-.494
300	349	-.075	.101	.357	-.425
300	350	-.090	.109	.365	-.455
300	351	-.161	.119	.272	-.573
300	352	-.172	.128	.284	-.649
300	353	-.298	.183	.127	-1.338
300	354	-.247	.143	.125	-1.106
300	355	-.322	.149	.060	-1.148
300	356	-.253	.140	.092	-.932
300	357	-.224	.136	.183	-.842
300	358	-.198	.126	.191	-.738
300	359	-.219	.122	.171	-.852
300	360	-.151	.113	.259	-.670
300	361	-.132	.109	.315	-.617
300	362	-.154	.109	.302	-.682
300	363	-.180	.095	.163	-.495
300	364	-.123	.091	.200	-.424
300	365	-.110	.087	.335	-.412
300	366	-.126	.092	.345	-.427
300	367	-.167	.096	.314	-.499
300	368	-.115	.093	.308	-.450
300	369	-.110	.090	.211	-.471
300	370	-.137	.100	.185	-.533
300	371	-.207	.115	.171	-.810
300	372	-.141	.101	.222	-.765
300	373	-.149	.109	.175	-.727
300	374	-.155	.111	.176	-.691
300	375	-.187	.107	.186	-.737
300	376	-.126	.097	.230	-.573
300	377	-.050	.083	.244	-.373
300	378	-.099	.095	.244	-.455
300	379	-.158	.101	.213	-.540
300	380	-.120	.098	.305	-.567
300	381	-.058	.083	.213	-.336
300	382	-.104	.094	.202	-.392
300	383	-.160	.098	.157	-.438
300	384	-.118	.094	.179	-.380
300	385	-.050	.084	.209	-.365
300	386	-.131	.093	.185	-.456
300	387	-.161	.101	.153	-.499
300	388	-.123	.096	.165	-.472
300	389	-.055	.080	.209	-.338
300	390	-.103	.091	.190	-.415
300	391	-.162	.094	.152	-.487
300	392	-.115	.091	.182	-.427
300	393	-.046	.083	.221	-.363
300	394	-.095	.094	.211	-.457
300	395	-.155	.097	.149	-.512
300	396	-.109	.094	.190	-.458
300	397	-.046	.084	.288	-.298
300	398	-.098	.097	.282	-.383
300	399	-.164	.103	.284	-.452
300	400	-.114	.097	.315	-.382
300	401	-.045	.075	.196	-.293
300	402	-.096	.087	.234	-.387
300	403	-.156	.091	.172	-.462
300	404	-.110	.086	.182	-.396
300	405	-.047	.082	.227	-.317
300	406	-.101	.092	.200	-.391
300	407	-.168	.099	.157	-.510
300	408	-.118	.094	.195	-.469
300	409	-.049	.079	.189	-.358
300	410	-.095	.091	.184	-.468
300	411	-.156	.098	.136	-.567
300	412	-.108	.091	.161	-.474
300	413	-.042	.093	.240	-.339
300	414	-.098	.088	.174	-.430
300	415	-.157	.110	.191	-.500
300	416	-.113	.107	.219	-.453
300	417	-.050	.081	.216	-.361
300	418	-.097	.093	.202	-.461
300	419	-.159	.097	.152	-.536
300	420	-.113	.092	.179	-.469
300	421	-.052	.083	.236	-.318
300	422	-.099	.095	.226	-.401
300	423	.152	.083	.449	-.121
300	424	-.119	.093	.216	-.425
300	425	-.051	.078	.192	-.354
300	426	-.098	.092	.195	-.451
300	427	-.161	.093	.129	-.537
300	428	-.109	.089	.165	-.469
300	429	-.048	.087	.221	-.352

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	430	-.094	.097	.210	-.429
300	431	-.129	.085	.162	-.379
300	432	-.108	.098	.195	-.439
300	433	-.045	.082	.260	-.345
300	434	-.092	.094	.253	-.451
300	435	-.160	.098	.164	-.516
300	436	-.095	.089	.212	-.383
300	437	-.044	.080	.222	-.308
300	438	-.094	.090	.219	-.403
300	439	-.159	.095	.170	-.476
300	440	-.108	.090	.206	-.408
300	441	-.042	.083	.255	-.325
300	442	-.091	.096	.261	-.410
300	443	-.157	.101	.206	-.493
300	444	-.106	.096	.236	-.424
300	445	-.041	.079	.251	-.374
300	446	-.085	.089	.235	-.465
300	447	-.151	.092	.174	-.536
300	448	-.101	.088	.202	-.458
300	449	-.047	.078	.241	-.323
300	450	-.094	.089	.236	-.406
300	451	-.127	.090	.184	-.397
300	452	-.099	.088	.204	-.369
300	453	-.131	.083	.149	-.469
300	454	-.095	.088	.213	-.446
300	455	-.130	.092	.191	-.488
300	456	-.101	.089	.230	-.447
300	457	-.125	.086	.136	-.479
300	801	-.109	.087	.169	-.378
300	901	-.209	.125	.190	-.742
300	902	-.112	.103	.206	-.601
300	903	-.093	.098	.238	-.424
300	904	-.115	.090	.184	-.448
300	905	-.275	.182	.287	-1.160
300	906	-.351	.163	.228	-1.115
300	907	-.147	.103	.227	-.550
300	908	-.095	.102	.313	-.476
300	909	-.146	.143	.275	-.704
300	910	-.074	.129	.357	-.607
300	911	-.231	.149	.461	-.820
300	912	-.074	.115	.358	-.421
300	913	-.172	.139	.342	-.730
300	914	-.072	.124	.355	-.526
300	915	-.131	.092	.206	-.471
300	916	-.095	.091	.225	-.405
300	917	-.114	.084	.196	-.517
300	918	-.095	.086	.228	-.532
300	919	-.103	.087	.182	-.449
300	919	-.103	.087	.182	-.449
300	920	-.107	.086	.221	-.522

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
300	921	-.130	.085	.174	-.429
300	922	-.098	.090	.190	-.368
300	923	-.135	.092	.176	-.482
300	924	-.102	.088	.200	-.435
300	925	-.097	.089	.187	-.382
300	926	-.100	.091	.220	-.411
300	927	-.149	.092	.191	-.452
300	928	-.112	.090	.201	-.406
300	929	-.076	.113	.331	-.440
310	1	-.167	.097	.200	-.518
310	2	-.125	.092	.207	-.459
310	3	-.180	.094	.196	-.485
310	4	-.146	.091	.200	-.468
310	5	-.088	.079	.193	-.417
310	6	-.103	.083	.195	-.447
310	7	-.122	.088	.178	-.490
310	8	-.045	.095	.277	-.363
310	9	-.049	.091	.291	-.354
310	10	-.107	.096	.288	-.465
310	11	-.122	.098	.258	-.446
310	12	-.114	.099	.267	-.471
310	13	-.091	.097	.225	-.416
310	14	-.114	.100	.209	-.453
310	15	-.158	.102	.231	-.544
310	16	-.118	.095	.247	-.474
310	101	-.164	.099	.130	-.518
310	102	-.189	.105	.116	-.541
310	103	-.241	.113	.108	-.659
310	104	-.217	.117	.147	-.701
310	105	-.171	.107	.190	-.627
310	106	-.185	.115	.234	-.686
310	107	-.217	.121	.216	-.713
310	108	-.156	.113	.183	-.759
310	109	-.191	.127	.148	-.796
310	110	-.183	.116	.206	-.783
310	111	-.214	.123	.141	-.825
310	112	-.312	.141	.090	-.907
310	113	-.299	.142	.090	-1.023
310	114	-.117	.098	.296	-.447
310	115	-.064	.104	.405	-.427
310	116	.085	.120	.656	-.316
310	117	.167	.129	.795	-.306
310	118	.260	.144	.733	-.272
310	119	.294	.169	.859	-.523
310	120	.278	.200	.960	-.738
310	121	.437	.211	1.082	-.398
310	122	.421	.187	1.132	-.186
310	123	.356	.194	.995	-.247
310	124	.266	.197	.937	-.354
310	125	-.277	.125	.149	-.798

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	126	-.239	.101	.109	-.740
310	127	-.247	.101	.101	-.565
310	128	-.290	.106	.148	-.625
310	129	-.244	.105	.182	-.656
310	130	-.213	.106	.170	-.596
310	131	-.216	.110	.142	-.626
310	132	-.238	.108	.110	-.690
310	133	-.217	.128	.192	-.814
310	134	-.196	.127	.205	-.777
310	135	-.223	.138	.296	-.916
310	136	-.243	.122	.254	-.690
310	137	-.326	.190	.113	-1.196
310	138	-.109	.131	.309	-.585
310	139	.035	.133	.543	-.502
310	141	.277	.152	.825	-.274
310	142	.235	.137	.721	-.231
310	143	.161	.145	.664	-.425
310	144	.097	.151	.613	-.442
310	145	.102	.145	.571	-.420
310	146	.138	.134	.592	-.410
310	147	.119	.167	.817	-.404
310	148	.027	.179	.727	-.608
310	149	-.255	.139	.114	-.942
310	150	-.207	.121	.183	-.847
310	151	-.209	.120	.188	-.733
310	152	-.253	.117	.131	-.732
310	153	-.227	.115	.171	-.660
310	154	-.180	.101	.132	-.557
310	155	-.188	.110	.174	-.645
310	156	-.239	.127	.152	-.911
310	157	-.207	.128	.191	-.856
310	158	-.194	.136	.191	-.918
310	159	-.220	.143	.166	-1.110
310	160	-.510	.207	.029	-1.714
310	161	-.148	.147	.285	-.823
310	162	.047	.140	.582	-.559
310	163	.165	.162	.799	-.522
310	164	-.040	.135	.588	-.451
310	165	-.071	.117	.428	-.527
310	166	-.112	.112	.319	-.505
310	167	-.173	.171	.302	-.947
310	168	-.244	.176	.243	-1.106
310	169	-.120	.113	.403	-.658
310	170	-.134	.108	.338	-.650
310	171	-.153	.112	.175	-.885
310	172	-.236	.120	.097	-1.009
310	173	-.154	.102	.158	-.528
310	174	-.151	.094	.156	-.484
310	175	-.139	.100	.172	-.541
310	176	-.222	.106	.125	-.632

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	177	-.152	.104	.187	-.598
310	178	-.168	.109	.192	-.730
310	179	-.158	.120	.262	-.837
310	180	-.249	.129	.149	-1.244
310	181	-.183	.123	.229	-1.013
310	182	-.177	.100	.235	-.585
310	183	-.272	.160	.130	-.946
310	184	-.140	.127	.288	-.716
310	185	.004	.134	.444	-.554
310	186	.048	.150	.758	-.448
310	187	.032	.145	.778	-.473
310	188	-.139	.122	.336	-.581
310	189	-.136	.107	.220	-.607
310	190	-.176	.105	.165	-.566
310	191	-.207	.132	.172	-.952
310	192	-.293	.140	.104	-.861
310	193	-.173	.110	.152	-.739
310	194	-.176	.097	.136	-.602
310	195	-.111	.083	.164	-.432
310	196	-.196	.088	.091	-.647
310	197	-.130	.086	.160	-.456
310	198	-.143	.082	.107	-.451
310	199	-.130	.089	.133	-.486
310	200	-.218	.094	.104	-.566
310	201	-.145	.092	.144	-.487
310	202	-.147	.094	.144	-.471
310	203	-.129	.096	.187	-.483
310	204	-.221	.102	.119	-.566
310	205	-.162	.103	.179	-.542
310	206	-.263	.145	.104	-.952
310	207	-.065	.107	.353	-.461
310	208	-.025	.111	.427	-.441
310	209	.013	.133	.616	-.497
310	210	-.097	.102	.341	-.469
310	211	-.113	.096	.242	-.438
310	212	-.225	.107	.173	-.615
310	213	-.186	.109	.203	-.622
310	214	-.184	.108	.164	-.829
310	215	-.139	.100	.227	-.547
310	216	-.183	.090	.087	-.614
310	217	-.130	.092	.202	-.424
310	218	-.128	.085	.167	-.420
310	219	-.106	.086	.185	-.399
310	220	-.201	.093	.105	-.515
310	221	-.134	.089	.153	-.445
310	222	-.141	.083	.147	-.408
310	223	-.116	.086	.180	-.409
310	224	-.211	.093	.101	-.540
310	225	-.142	.093	.180	-.510
310	226	-.144	.085	.165	-.428
310	227	-.122	.092	.208	-.476
310	228	-.225	.096	.135	-.580
310	229	-.230	.120	.140	-.783
310	230	-.116	.090	.243	-.411
310	231	-.049	.105	.469	-.425
310	232	-.107	.113	.385	-.497
310	233	-.053	.104	.387	-.387
310	234	-.086	.087	.244	-.438
310	235	-.086	.091	.188	-.477
310	236	-.192	.095	.097	-.542
310	237	-.140	.095	.151	-.492
310	238	-.121	.093	.254	-.529
310	239	-.152	.093	.229	-.544
310	240	-.119	.090	.267	-.495
310	241	-.134	.086	.113	-.456
310	242	-.111	.089	.146	-.446
310	243	-.158	.095	.115	-.495
310	244	-.127	.087	.125	-.443
310	245	-.128	.086	.142	-.470
310	246	-.122	.085	.149	-.376
310	247	-.168	.086	.113	-.468
310	248	-.136	.085	.131	-.520
310	249	-.150	.086	.124	-.440
310	250	-.131	.090	.163	-.431
310	251	-.180	.090	.101	-.463
310	252	-.182	.098	.130	-.511
310	253	-.129	.084	.179	-.412
310	254	-.084	.087	.205	-.397
310	255	-.114	.096	.313	-.409
310	256	-.081	.083	.206	-.386
310	257	-.099	.082	.196	-.401
310	258	-.085	.088	.228	-.431
310	259	-.140	.089	.167	-.522
310	260	-.096	.094	.271	-.397
310	261	-.107	.085	.161	-.439
310	262	-.088	.086	.189	-.440
310	263	-.144	.087	.136	-.502
310	264	-.111	.085	.163	-.471
310	265	-.133	.079	.185	-.418
310	266	-.110	.080	.208	-.400
310	267	-.155	.086	.186	-.472
310	268	-.163	.097	.189	-.497
310	269	-.130	.088	.208	-.449
310	270	-.111	.091	.250	-.441
310	271	-.162	.094	.216	-.506
310	272	-.130	.090	.221	-.439
310	273	-.152	.091	.147	-.558
310	274	-.125	.094	.204	-.493
310	275	-.182	.099	.166	-.631
310	276	-.115	.091	.216	-.422
310	277	-.102	.083	.171	-.390
310	278	-.064	.084	.208	-.353
310	279	-.119	.087	.172	-.409
310	280	-.080	.083	.172	-.340
310	281	-.096	.082	.239	-.381
310	282	-.076	.085	.255	-.365
310	283	-.122	.087	.211	-.418
310	284	-.089	.082	.221	-.366
310	285	-.089	.098	.303	-.419
310	286	-.126	.088	.150	-.554
310	301	-.399	.133	.043	-1.091
310	302	-.437	.153	.124	-1.248
310	303	-.487	.185	.255	-1.265
310	304	-.233	.149	.238	-.917
310	305	-.182	.114	.131	-.670
310	306	-.177	.097	.109	-.571
310	307	-.235	.098	.070	-.664
310	308	-.184	.095	.112	-.550
310	309	-.180	.094	.175	-.516
310	310	-.306	.142	.299	-.790
310	311	-.359	.143	.273	-.935
310	312	-.213	.130	.195	-.810
310	313	-.124	.096	.210	-.561
310	314	-.134	.096	.176	-.457
310	315	-.234	.104	.110	-.667
310	316	-.225	.104	.113	-.643
310	317	.131	.225	.838	-.707
310	318	.003	.125	.475	-.566
310	319	-.554	.201	.215	-1.378
310	320	-.314	.144	.079	-.856
310	321	-.246	.154	.138	-1.204
310	322	-.147	.110	.314	-.607
310	323	-.228	.116	.209	-.665
310	324	-.248	.122	.162	-.707
310	325	-.255	.115	.138	-.692
310	326	-.259	.118	.123	-.652
310	327	-.198	.174	.502	-.889
310	328	-.160	.183	.503	-.762
310	329	-.102	.179	.601	-.676
310	330	.060	.233	.815	-.812
310	331	-.005	.135	.541	-.493
310	332	-.057	.128	.460	-.472
310	333	-.101	.125	.322	-.592
310	334	-.274	.152	.206	-.987
310	335	-.640	.268	.015	-1.840
310	336	-.347	.154	.097	-1.033
310	337	-.359	.170	.174	-1.358
310	338	-.357	.165	.183	-1.329
310	339	-.376	.147	.127	-1.211
310	340	-.287	.129	.150	-.768

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
310	341	-.273	.124	.071	-.860
310	342	-.269	.122	.132	-.882
310	343	-.320	.135	.151	-1.014
310	344	-.263	.127	.109	-.949
310	345	-.154	.119	.185	-.785
310	346	-.164	.131	.203	-.761
310	347	-.117	.123	.432	-.667
310	348	-.100	.133	.320	-.745
310	349	-.087	.097	.222	-.427
310	350	-.125	.107	.272	-.489
310	351	-.219	.124	.192	-.626
310	352	-.251	.148	.225	-.864
310	353	-.397	.220	.229	-1.311
310	354	-.331	.202	.224	-1.191
310	355	-.393	.193	.193	-1.796
310	356	-.309	.180	.206	-1.136
310	357	-.279	.158	.123	-1.210
310	358	-.221	.132	.154	-.885
310	359	-.233	.125	.201	-.821
310	360	-.156	.116	.307	-.624
310	361	-.136	.115	.308	-.516
310	362	-.172	.116	.256	-.587
310	363	-.235	.109	.110	-.791
310	364	-.175	.104	.163	-.652
310	365	-.150	.097	.148	-.494
310	366	-.164	.104	.163	-.584
310	367	-.200	.104	.145	-.506
310	368	-.141	.099	.183	-.464
310	369	-.137	.093	.181	-.467
310	370	-.173	.110	.200	-.672
310	371	-.262	.143	.155	-1.026
310	372	-.173	.117	.232	-.762
310	373	-.174	.116	.179	-.832
310	374	-.176	.117	.176	-.777
310	375	-.204	.115	.163	-.772
310	376	-.131	.103	.228	-.477
310	377	-.136	.099	.245	-.569
310	378	-.127	.106	.304	-.526
310	379	-.132	.107	.294	-.521
310	380	-.139	.105	.222	-.508
310	381	-.158	.096	.178	-.461
310	382	-.152	.102	.211	-.494
310	383	-.152	.099	.212	-.503
310	384	-.152	.099	.201	-.522
310	385	-.153	.098	.171	-.500
310	386	-.170	.101	.118	-.615
310	387	-.153	.107	.225	-.546
310	388	-.151	.106	.224	-.546
310	389	-.155	.095	.127	-.547
310	390	-.148	.101	.155	-.561
310	391	-.153	.099	.152	-.598
310	392	-.144	.098	.161	-.575
310	393	-.134	.090	.166	-.433
310	394	-.127	.097	.206	-.454
310	395	-.129	.095	.208	-.461
310	396	-.123	.096	.221	-.468
310	397	-.127	.084	.161	-.407
310	398	-.128	.092	.183	-.429
310	399	-.136	.093	.208	-.460
310	400	-.127	.091	.222	-.428
310	401	-.120	.090	.198	-.454
310	402	-.120	.097	.243	-.470
310	403	-.126	.098	.244	-.480
310	404	-.123	.097	.241	-.455
310	405	-.129	.094	.205	-.465
310	406	-.129	.101	.239	-.477
310	407	-.142	.104	.227	-.523
310	408	-.136	.102	.242	-.477
310	409	-.143	.093	.153	-.466
310	410	-.132	.102	.184	-.483
310	411	-.136	.103	.195	-.503
310	412	-.130	.099	.173	-.483
310	413	-.131	.096	.209	-.451
310	414	-.117	.094	.184	-.485
310	415	-.133	.103	.226	-.478
310	416	-.131	.104	.224	-.479
310	417	-.118	.082	.142	-.438
310	418	-.108	.090	.184	-.461
310	419	-.114	.089	.172	-.466
310	420	-.111	.087	.165	-.442
310	421	-.114	.087	.179	-.434
310	422	-.105	.094	.214	-.466
310	423	.186	.079	.461	-.095
310	424	-.127	.091	.175	-.484
310	425	-.146	.090	.125	-.482
310	426	-.129	.099	.172	-.491
310	427	-.134	.096	.152	-.466
310	428	-.129	.095	.149	-.469
310	429	-.144	.086	.148	-.471
310	430	-.129	.091	.168	-.464
310	431	-.153	.084	.124	-.451
310	432	-.130	.090	.160	-.461
310	433	-.140	.088	.188	-.444
310	434	-.128	.095	.228	-.455
310	435	-.106	.099	.266	-.485
310	436	-.078	.089	.205	-.415
310	437	-.106	.093	.239	-.407
310	438	-.095	.101	.284	-.420
310	439	-.099	.101	.290	-.433
310	440	-.087	.100	.316	-.407
310	441	-.092	.092	.233	-.386
310	442	-.114	.096	.225	-.440
310	443	-.131	.093	.205	-.462
310	444	-.131	.092	.210	-.463
310	445	-.144	.086	.135	-.455
310	446	-.130	.091	.165	-.465
310	447	-.140	.090	.150	-.469
310	448	-.133	.089	.161	-.457
310	449	-.143	.087	.127	-.453
310	450	-.130	.093	.170	-.459
310	451	-.159	.090	.125	-.493
310	452	-.120	.087	.138	-.444
310	453	-.121	.089	.209	-.472
310	454	-.073	.092	.256	-.442
310	455	-.163	.095	.159	-.548
310	456	-.115	.090	.191	-.489
310	457	-.151	.083	.105	-.412
310	801	-.119	.086	.230	-.433
310	901	-.399	.131	.008	-.858
310	902	-.257	.141	.207	-.793
310	903	-.151	.107	.227	-.596
310	904	-.161	.098	.164	-.577
310	905	-.452	.144	.222	-.934
310	906	-.478	.156	.074	-1.188
310	907	-.139	.090	.191	-.455
310	908	-.091	.091	.246	-.417
310	909	-.223	.152	.230	-.903
310	910	-.022	.105	.324	-.387
310	911	-.359	.161	.169	-1.102
310	912	-.077	.099	.285	-.454
310	913	-.283	.136	.102	-.801
310	914	-.082	.111	.280	-.492
310	915	-.122	.092	.182	-.409
310	916	-.088	.091	.194	-.386
310	917	-.126	.084	.153	-.423
310	918	-.104	.086	.164	-.412
310	919	-.119	.090	.137	-.409
310	919	-.119	.090	.137	-.409
310	920	-.118	.085	.161	-.402
310	921	-.159	.090	.167	-.477
310	922	-.077	.082	.193	-.333
310	923	-.161	.084	.126	-.420
310	924	-.122	.079	.156	-.369
310	925	-.086	.090	.240	-.412
310	926	-.108	.084	.161	-.389
310	927	-.128	.087	.185	-.422
310	928	-.122	.082	.142	-.391
310	929	-.095	.098	.298	-.463
320	1	-.124	.094	.196	-.469
320	2	-.121	.092	.190	-.457

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
320	3	-.211	.100	.081	-.550
320	4	-.123	.083	.107	-.391
320	5	-.094	.092	.229	-.426
320	6	-.102	.096	.217	-.458
320	7	-.105	.107	.251	-.498
320	8	-.054	.092	.294	-.374
320	9	-.051	.088	.252	-.357
320	10	-.115	.102	.209	-.451
320	11	-.135	.099	.166	-.501
320	12	-.116	.099	.201	-.453
320	13	-.124	.093	.213	-.469
320	14	-.154	.098	.193	-.522
320	15	-.128	.094	.132	-.433
320	16	-.129	.089	.117	-.418
320	101	-.182	.114	.157	-.782
320	102	-.200	.117	.133	-.770
320	103	-.249	.127	.128	-.717
320	104	-.218	.132	.188	-.770
320	105	-.177	.131	.245	-.916
320	106	-.192	.139	.227	-1.032
320	107	-.242	.147	.216	-.962
320	108	-.199	.132	.197	-.839
320	109	-.227	.147	.216	-1.091
320	110	-.212	.125	.213	-.786
320	111	-.242	.129	.217	-.962
320	112	-.376	.144	.092	-.901
320	113	-.412	.173	.134	-1.088
320	114	-.131	.111	.239	-.531
320	115	-.049	.115	.347	-.492
320	116	.133	.133	.721	-.308
320	117	.231	.146	.704	-.214
320	118	.352	.150	.883	-.155
320	119	.417	.173	.992	-.297
320	120	.423	.193	1.040	-.463
320	121	.380	.217	1.095	-.488
320	122	.369	.188	.978	-.228
320	123	.255	.188	.851	-.342
320	124	.095	.192	.798	-.505
320	125	-.251	.120	.057	-.744
320	126	-.219	.109	.105	-.669
320	127	-.231	.111	.111	-.822
320	128	-.286	.115	.093	-.866
320	129	-.240	.114	.129	-.864
320	130	-.191	.113	.197	-.599
320	131	-.204	.117	.190	-.704
320	132	-.195	.103	.165	-.536
320	133	-.211	.133	.279	-.855
320	134	-.180	.115	.215	-.710
320	135	-.213	.124	.206	-.738
320	136	-.261	.121	.127	-.831
320	137	-.391	.203	.092	-1.296
320	138	-.076	.125	.367	-.509
320	139	.107	.124	.542	-.328
320	141	.399	.174	1.054	-.203
320	142	.347	.161	.874	-.139
320	143	.120	.140	.740	-.370
320	144	-.085	.139	.579	-.513
320	145	-.416	.223	.215	-1.192
320	146	-.216	.179	.382	-.992
320	147	-.187	.138	.391	-.665
320	148	-.324	.167	.404	-.924
320	149	-.230	.119	.120	-.729
320	150	-.188	.116	.226	-.731
320	151	-.198	.118	.258	-.600
320	152	-.257	.121	.209	-.698
320	153	-.228	.127	.245	-.688
320	154	-.186	.110	.168	-.757
320	155	-.199	.118	.162	-.697
320	156	-.247	.127	.108	-.859
320	157	-.209	.127	.173	-.722
320	158	-.176	.118	.285	-.642
320	159	-.235	.139	.299	-.820
320	160	-.585	.214	.156	-1.432
320	161	-.108	.133	.350	-.553
320	162	.144	.113	.582	-.292
320	163	.330	.147	.943	-.238
320	164	.146	.145	.644	-.522
320	165	-.072	.114	.472	-.619
320	166	-.191	.116	.200	-.595
320	167	-.375	.214	.190	-1.284
320	168	-.385	.211	.187	-1.325
320	169	-.253	.148	.258	-.929
320	170	-.257	.129	.140	-.859
320	171	-.179	.092	.119	-.491
320	172	-.187	.091	.106	-.517
320	173	-.171	.091	.132	-.487
320	174	-.190	.093	.080	-.539
320	175	-.191	.105	.113	-.732
320	176	-.197	.102	.113	-.671
320	177	-.179	.102	.139	-.563
320	178	-.179	.093	.125	-.539
320	179	-.166	.098	.165	-.537
320	180	-.178	.101	.131	-.720
320	181	-.175	.106	.147	-.729
320	182	-.229	.118	.121	-.805
320	183	-.477	.183	.037	-1.176
320	184	-.077	.106	.418	-.469
320	185	.101	.115	.634	-.272
320	186	.287	.144	.822	-.115
320	187	.316	.166	1.038	-.185
320	188	.109	.150	.636	-.384
320	189	-.075	.121	.353	-.479
320	190	-.196	.109	.168	-.616
320	191	-.314	.168	.080	-1.153
320	192	-.331	.168	.042	-1.117
320	193	-.247	.133	.167	-.918
320	194	-.250	.131	.214	-.993
320	195	-.172	.100	.190	-.567
320	196	-.182	.099	.185	-.603
320	197	-.170	.102	.220	-.562
320	198	-.196	.098	.134	-.678
320	199	-.194	.111	.167	-.963
320	200	-.202	.109	.175	-.863
320	201	-.185	.108	.154	-.865
320	202	-.179	.094	.106	-.673
320	203	-.170	.099	.129	-.662
320	204	-.190	.102	.119	-.667
320	205	-.214	.122	.250	-.827
320	206	-.462	.169	-.007	-1.172
320	207	-.077	.108	.271	-.422
320	208	.036	.116	.410	-.371
320	209	.190	.144	.717	-.254
320	210	.069	.131	.520	-.373
320	211	-.087	.118	.328	-.571
320	212	-.209	.126	.253	-.762
320	213	-.363	.181	.113	-1.163
320	214	-.369	.158	.053	-1.281
320	215	-.251	.122	.114	-.873
320	216	-.236	.121	.133	-.808
320	217	-.192	.099	.123	-.564
320	218	-.198	.095	.177	-.627
320	219	-.187	.098	.176	-.582
320	220	-.206	.101	.171	-.634
320	221	-.202	.104	.168	-.643
320	222	-.218	.098	.121	-.610
320	223	-.203	.104	.139	-.616
320	224	-.215	.105	.103	-.759
320	225	-.198	.103	.139	-.653
320	226	-.204	.105	.110	-.690
320	227	-.197	.114	.171	-.696
320	228	-.232	.118	.123	-.775
320	229	-.402	.168	.001	-1.139
320	230	-.130	.102	.378	-.492
320	231	.002	.116	.565	-.433
320	232	.086	.129	.683	-.400
320	233	.117	.142	.882	-.278
320	234	.008	.131	.484	-.458
320	235	-.103	.121	.361	-.513
320	236	-.215	.116	.213	-.670
320	237	-.389	.191	.092	-1.183

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
320	238	-.309	.155	.092	-1.008
320	239	-.248	.120	.122	-.806
320	240	-.207	.113	.142	-.685
320	241	-.182	.095	.136	-.540
320	242	-.159	.097	.167	-.515
320	243	-.212	.103	.141	-.512
320	244	-.179	.097	.156	-.493
320	245	-.170	.097	.125	-.667
320	246	-.175	.099	.138	-.660
320	247	-.229	.103	.093	-.732
320	248	-.209	.099	.082	-.780
320	249	-.213	.093	.130	-.675
320	250	-.193	.097	.172	-.691
320	251	-.236	.098	.117	-.744
320	252	-.294	.131	.090	-.887
320	253	-.134	.097	.218	-.485
320	254	-.041	.103	.314	-.404
320	255	-.038	.099	.395	-.448
320	256	-.048	.105	.302	-.449
320	257	-.116	.102	.268	-.495
320	258	-.133	.120	.268	-.628
320	259	-.235	.161	.229	-1.029
320	260	-.142	.121	.197	-.684
320	261	-.132	.101	.186	-.506
320	262	-.112	.102	.213	-.505
320	263	-.171	.090	.133	-.463
320	264	-.138	.088	.149	-.421
320	265	-.159	.095	.161	-.450
320	266	-.135	.096	.183	-.425
320	267	-.178	.101	.159	-.493
320	268	-.128	.090	.139	-.446
320	269	-.154	.088	.153	-.442
320	270	-.137	.092	.148	-.420
320	271	-.208	.096	.109	-.591
320	272	-.193	.097	.119	-.593
320	273	-.208	.093	.093	-.755
320	274	-.160	.092	.169	-.602
320	275	-.229	.111	.098	-.926
320	276	-.106	.086	.177	-.406
320	277	-.072	.090	.278	-.375
320	278	-.018	.097	.346	-.338
320	279	-.058	.101	.297	-.417
320	280	-.069	.088	.242	-.386
320	281	-.089	.083	.164	-.429
320	282	-.084	.088	.177	-.436
320	283	-.145	.096	.117	-.622
320	284	-.105	.088	.158	-.470
320	285	-.093	.089	.199	-.459
320	286	-.101	.089	.209	-.488
320	301	-.447	.150	.006	-1.056
320	302	-.483	.168	.032	-1.167
320	303	-.551	.189	.031	-1.292
320	304	-.403	.181	.114	-1.182
320	305	-.297	.139	.177	-.924
320	306	-.231	.129	.159	-1.348
320	307	-.251	.123	.135	-1.388
320	308	-.190	.118	.166	-.941
320	309	-.179	.105	.118	-.701
320	310	-.403	.181	.219	-1.064
320	311	-.437	.174	.176	-1.043
320	312	-.315	.155	.146	-.838
320	313	-.192	.138	.167	-.707
320	314	-.179	.122	.175	-.722
320	315	-.244	.118	.106	-.768
320	316	-.203	.110	.100	-.685
320	317	-.335	.251	.485	-1.093
320	318	-.195	.220	.514	-1.153
320	319	-.392	.170	.148	-1.066
320	320	-.243	.122	.130	-.766
320	321	-.215	.128	.186	-.671
320	322	-.176	.123	.187	-.710
320	323	-.231	.125	.191	-.719
320	324	-.203	.120	.193	-.681
320	325	-.187	.111	.151	-.745
320	326	-.203	.115	.160	-.713
320	327	-.420	.192	.203	-1.525
320	328	-.368	.185	.227	-1.152
320	329	-.355	.174	.207	-1.017
320	330	-.358	.222	.372	-1.270
320	331	-.252	.203	.350	-1.005
320	332	-.146	.152	.422	-.867
320	333	-.150	.130	.376	-.662
320	334	-.258	.146	.258	-.778
320	335	-.491	.230	.106	-1.546
320	336	-.272	.134	.137	-.829
320	337	-.248	.129	.122	-.845
320	338	-.259	.136	.121	-.827
320	339	-.288	.128	.101	-.778
320	340	-.216	.116	.162	-.626
320	341	-.195	.114	.157	-.760
320	342	-.204	.114	.150	-.730
320	343	-.257	.120	.121	-.833
320	344	-.206	.114	.143	-.774
320	345	-.212	.124	.156	-.922
320	346	-.221	.128	.143	-.765
320	347	-.201	.119	.191	-.819
320	348	-.227	.135	.140	-.891
320	349	-.199	.121	.172	-.696
320	350	-.191	.118	.158	-.848
320	351	-.241	.119	.148	-.690
320	352	-.200	.120	.163	-.612
320	353	-.211	.128	.149	-.872
320	354	-.210	.122	.184	-.841
320	355	-.268	.128	.091	-.887
320	356	-.201	.120	.129	-.841
320	357	-.188	.107	.112	-.746
320	358	-.188	.106	.111	-.776
320	359	-.233	.107	.063	-.858
320	360	-.167	.102	.122	-.700
320	361	-.159	.086	.155	-.461
320	362	-.184	.092	.100	-.525
320	363	-.241	.102	.068	-.627
320	364	-.174	.092	.120	-.509
320	365	-.180	.093	.157	-.603
320	366	-.199	.099	.162	-.676
320	367	-.250	.102	.108	-.657
320	368	-.186	.095	.142	-.589
320	369	-.173	.086	.103	-.569
320	370	-.192	.093	.100	-.639
320	371	-.233	.095	.089	-.623
320	372	-.170	.089	.117	-.607
320	373	-.144	.092	.141	-.601
320	374	-.157	.097	.147	-.587
320	375	-.205	.100	.098	-.611
320	376	-.146	.093	.143	-.469
320	377	-.169	.096	.114	-.447
320	378	-.149	.102	.182	-.448
320	379	-.162	.102	.164	-.463
320	380	-.162	.101	.133	-.450
320	381	-.233	.107	.148	-.685
320	382	-.202	.108	.201	-.645
320	383	-.213	.103	.169	-.617
320	384	-.209	.102	.142	-.603
320	385	-.226	.091	.042	-.566
320	386	-.171	.091	.097	-.507
320	387	-.190	.098	.130	-.522
320	388	-.182	.095	.165	-.483
320	389	-.190	.096	.144	-.491
320	390	-.164	.102	.202	-.497
320	391	-.176	.101	.193	-.481
320	392	-.165	.099	.198	-.482
320	393	-.189	.098	.149	-.546
320	394	-.163	.103	.208	-.557
320	395	-.174	.103	.188	-.570
320	396	-.163	.102	.201	-.556
320	397	-.179	.092	.183	-.484
320	398	-.160	.099	.230	-.492
320	399	-.229	.120	.219	-.672
320	400	-.220	.116	.193	-.646
320	401	-.250	.119	.083	-.710

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
320	402	-.222	.128	.147	-.756
320	403	-.206	.124	.233	-.747
320	404	-.171	.111	.224	-.538
320	405	-.192	.094	.122	-.501
320	406	-.180	.101	.159	-.554
320	407	-.214	.110	.155	-.638
320	408	-.195	.105	.161	-.585
320	409	-.194	.088	.104	-.500
320	410	-.166	.094	.140	-.501
320	411	-.179	.097	.138	-.516
320	412	-.171	.092	.125	-.495
320	413	-.195	.091	.097	-.529
320	414	-.156	.085	.098	-.431
320	415	-.182	.096	.126	-.534
320	416	-.177	.098	.127	-.521
320	417	-.172	.107	.245	-.989
320	418	-.140	.115	.304	-.773
320	419	-.146	.115	.288	-.670
320	420	-.128	.115	.254	-.679
320	421	-.131	.107	.206	-.656
320	422	-.104	.107	.223	-.521
320	423	-.168	.091	.515	-.097
320	424	-.172	.107	.190	-.562
320	425	-.259	.106	.091	-.690
320	426	-.195	.108	.177	-.591
320	427	-.199	.103	.137	-.562
320	428	-.186	.100	.139	-.521
320	429	-.199	.098	.113	-.550
320	430	-.163	.102	.158	-.548
320	431	-.148	.087	.138	-.523
320	432	-.153	.101	.177	-.589
320	433	-.185	.092	.104	-.475
320	434	-.157	.099	.158	-.495
320	435	-.104	.108	.294	-.452
320	436	-.083	.095	.267	-.486
320	437	-.111	.108	.229	-.590
320	438	-.081	.114	.284	-.559
320	439	-.092	.112	.241	-.556
320	440	-.077	.106	.250	-.466
320	441	-.104	.097	.297	-.438
320	442	-.139	.104	.275	-.452
320	443	-.155	.103	.239	-.460
320	444	-.153	.101	.230	-.467
320	445	-.172	.090	.122	-.518
320	446	-.136	.094	.163	-.520
320	447	-.156	.094	.151	-.556
320	448	-.137	.093	.160	-.501
320	449	-.175	.098	.146	-.530
320	450	-.141	.103	.200	-.518
320	451	-.127	.091	.165	-.529

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
320	452	-.126	.090	.163	-.517
320	453	-.099	.084	.166	-.414
320	454	-.085	.092	.199	-.412
320	455	-.141	.093	.196	-.506
320	456	-.129	.090	.186	-.433
320	457	-.138	.083	.128	-.500
320	801	-.125	.085	.153	-.429
320	901	-.493	.147	-.044	-1.039
320	902	-.396	.173	.306	-1.119
320	903	-.261	.145	.251	-.809
320	904	-.272	.131	.207	-.747
320	905	-.561	.150	-.055	-1.121
320	906	-.586	.186	.048	-1.451
320	907	-.184	.114	.291	-.643
320	908	-.110	.113	.339	-.566
320	909	-.234	.158	.271	-.856
320	910	-.096	.120	.243	-.667
320	911	-.380	.154	.260	-1.002
320	912	-.122	.119	.283	-.580
320	913	-.224	.124	.279	-.707
320	914	-.126	.114	.311	-.688
320	915	-.104	.091	.270	-.428
320	916	-.060	.092	.249	-.364
320	917	-.139	.090	.174	-.475
320	918	-.127	.092	.166	-.466
320	919	-.128	.089	.198	-.470
320	919	-.128	.089	.198	-.470
320	920	-.140	.090	.152	-.444
320	921	-.123	.087	.174	-.441
320	922	-.091	.092	.194	-.493
320	923	-.176	.096	.184	-.586
320	924	-.131	.090	.172	-.531
320	925	-.086	.094	.205	-.388
320	926	-.125	.085	.162	-.426
320	927	-.133	.092	.150	-.501
320	928	-.140	.084	.130	-.436
320	929	-.150	.132	.285	-.674
330	1	-.166	.092	.164	-.498
330	2	-.147	.089	.183	-.476
330	3	-.288	.110	.089	-.700
330	4	-.143	.084	.150	-.417
330	5	-.086	.095	.207	-.387
330	6	-.088	.101	.202	-.416
330	7	-.085	.115	.266	-.451
330	8	-.002	.103	.472	-.343
330	9	-.029	.094	.304	-.355
330	10	-.131	.107	.249	-.497
330	11	-.162	.109	.238	-.539
330	12	-.130	.103	.238	-.457
330	13	-.144	.087	.151	-.413

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	14	-.193	.095	.108	-.493
330	15	-.171	.097	.169	-.505
330	16	-.180	.095	.137	-.512
330	101	-.185	.136	.176	-1.147
330	102	-.202	.139	.177	-1.075
330	103	-.264	.148	.138	-.919
330	104	-.228	.152	.183	-1.078
330	105	-.203	.141	.238	-.821
330	106	-.229	.155	.265	-.994
330	107	-.291	.165	.207	-1.296
330	108	-.228	.143	.205	-.894
330	109	-.281	.148	.178	-1.060
330	110	-.234	.121	.216	-.890
330	111	-.265	.122	.117	-.748
330	112	-.385	.131	.067	-.916
330	113	-.466	.166	.035	-1.170
330	114	-.147	.116	.271	-.606
330	115	-.060	.120	.341	-.503
330	116	.122	.132	.622	-.436
330	117	.218	.138	.728	-.333
330	118	.342	.138	.853	-.162
330	119	.403	.161	.938	-.188
330	120	.380	.180	1.010	-.397
330	121	.237	.196	.916	-1.000
330	122	.232	.168	.872	-.387
330	123	.146	.153	.898	-.415
330	124	-.027	.148	.549	-.507
330	125	-.227	.111	.112	-.761
330	126	-.166	.120	.191	-.626
330	127	-.191	.124	.178	-.623
330	128	-.261	.134	.144	-.717
330	129	-.226	.140	.193	-.870
330	130	-.183	.114	.189	-.693
330	131	-.201	.118	.183	-.716
330	132	-.188	.115	.158	-.619
330	133	-.212	.129	.191	-.748
330	134	-.175	.118	.194	-.643
330	135	-.214	.128	.195	-.783
330	136	-.251	.130	.117	-.762
330	137	-.437	.222	.099	-1.525
330	138	-.045	.134	.396	-.443
330	139	.156	.133	.639	-.318
330	141	.497	.176	1.127	-.164
330	142	.418	.165	1.045	-.083
330	143	.135	.146	.747	-.308
330	144	-.141	.145	.467	-.624
330	145	-.587	.214	.041	-1.480
330	146	-.434	.210	.224	-1.340
330	147	-.204	.124	.186	-.674
330	148	-.333	.142	.072	-.886

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	149	-.227	.119	.157	-.777
330	150	-.176	.109	.139	-.686
330	151	-.199	.114	.144	-.665
330	152	-.271	.122	.058	-.868
330	153	-.240	.137	.090	-1.084
330	154	-.189	.126	.163	-.983
330	155	-.205	.130	.201	-1.055
330	156	-.259	.129	.140	-.941
330	157	-.213	.128	.197	-.795
330	158	-.173	.125	.199	-.795
330	159	-.242	.154	.154	-.905
330	160	-.551	.230	.039	-1.353
330	161	-.087	.140	.340	-.592
330	162	.140	.118	.549	-.201
330	163	.330	.148	.856	-.098
330	164	.239	.148	.996	-.235
330	165	-.001	.123	.487	-.376
330	166	-.141	.116	.196	-.605
330	167	-.390	.204	.061	-1.250
330	168	-.416	.204	.049	-1.233
330	169	-.302	.145	.118	-1.020
330	170	-.302	.138	.146	-.934
330	171	-.209	.113	.094	-.755
330	172	-.222	.110	.079	-.741
330	173	-.205	.108	.114	-.603
330	174	-.225	.100	.129	-.660
330	175	-.230	.117	.143	-.812
330	176	-.244	.113	.126	-.710
330	177	-.216	.110	.145	-.677
330	178	-.229	.115	.134	-.860
330	179	-.213	.119	.159	-.752
330	180	-.232	.123	.141	-.786
330	181	-.226	.127	.162	-.894
330	182	-.278	.143	.161	-1.023
330	183	-.504	.199	.053	-1.259
330	184	-.093	.124	.392	-.506
330	185	.104	.121	.581	-.295
330	186	.268	.139	.759	-.216
330	187	.345	.156	.914	-.181
330	188	.202	.144	.794	-.329
330	189	-.014	.129	.457	-.538
330	190	-.191	.121	.269	-.710
330	191	-.433	.203	.052	-1.310
330	192	-.454	.200	.025	-1.387
330	193	-.287	.141	.163	-.938
330	194	-.284	.139	.160	-.988
330	195	-.219	.113	.159	-.750
330	196	-.233	.111	.164	-.730
330	197	-.220	.116	.175	-.676
330	198	-.239	.114	.097	-.755
330	199	-.240	.132	.125	-1.048
330	200	-.257	.129	.110	-.980
330	201	-.235	.128	.108	-.970
330	202	-.245	.120	.109	-.877
330	203	-.234	.125	.104	-.803
330	204	-.266	.130	.141	-.871
330	205	-.283	.156	.150	-1.065
330	206	-.510	.196	.125	-1.547
330	207	-.098	.117	.349	-.644
330	208	.043	.110	.433	-.460
330	209	.198	.134	.683	-.261
330	210	.161	.132	.797	-.228
330	211	-.041	.120	.458	-.425
330	212	-.230	.130	.358	-.816
330	213	-.517	.205	.105	-1.403
330	214	-.523	.181	-.072	-1.397
330	215	-.297	.128	.195	-.915
330	216	-.273	.113	.093	-.782
330	217	-.232	.112	.158	-.772
330	218	-.253	.113	.088	-.764
330	219	-.244	.120	.112	-.942
330	220	-.275	.127	.100	-.790
330	221	-.270	.134	.109	-1.075
330	222	-.261	.119	.148	-.774
330	223	-.252	.125	.220	-.832
330	224	-.280	.128	.175	-.892
330	225	-.259	.121	.220	-.803
330	226	-.281	.121	.155	-.932
330	227	-.275	.132	.171	-1.000
330	228	-.315	.137	.131	-.939
330	229	-.491	.196	.039	-1.292
330	230	-.169	.104	.187	-.497
330	231	-.022	.110	.381	-.358
330	232	.074	.118	.565	-.268
330	233	.145	.132	.639	-.230
330	234	.089	.133	.666	-.399
330	235	-.053	.134	.495	-.520
330	236	-.223	.133	.296	-.767
330	237	-.537	.185	.005	-1.268
330	238	-.425	.176	.129	-1.261
330	239	-.305	.131	.085	-.831
330	240	-.258	.123	.115	-.843
330	241	-.223	.106	.219	-.733
330	242	-.192	.106	.252	-.715
330	243	-.248	.112	.108	-.718
330	244	-.217	.105	.112	-.596
330	245	-.227	.109	.171	-.653
330	246	-.207	.113	.137	-.780
330	247	-.266	.118	.113	-.998
330	248	-.257	.112	.079	-.723
330	249	-.289	.115	.057	-.818
330	250	-.264	.118	.105	-.863
330	251	-.305	.118	.083	-.896
330	252	-.429	.158	.084	-1.315
330	253	-.169	.098	.167	-.524
330	254	-.046	.097	.312	-.413
330	255	-.010	.094	.327	-.359
330	256	.003	.108	.400	-.403
330	257	-.103	.113	.280	-.631
330	258	-.145	.136	.335	-.810
330	259	-.310	.198	.219	-1.256
330	260	-.246	.141	.221	-.988
330	261	-.171	.129	.238	-.739
330	262	-.152	.128	.368	-.652
330	263	-.211	.092	.069	-.584
330	264	-.177	.090	.107	-.522
330	265	-.202	.094	.131	-.597
330	266	-.170	.097	.167	-.601
330	267	-.209	.100	.165	-.607
330	268	-.162	.085	.116	-.483
330	269	-.181	.088	.120	-.526
330	270	-.166	.095	.178	-.652
330	271	-.255	.107	.093	-.806
330	272	-.247	.111	.099	-.731
330	273	-.283	.114	.087	-.743
330	274	-.207	.105	.176	-.582
330	275	-.316	.125	.113	-.836
330	276	-.115	.098	.265	-.458
330	277	-.046	.095	.404	-.406
330	278	.053	.102	.482	-.329
330	279	.015	.111	.408	-.409
330	280	-.021	.097	.351	-.337
330	281	-.062	.091	.261	-.378
330	282	-.076	.100	.226	-.429
330	283	-.159	.120	.182	-.706
330	284	-.112	.107	.218	-.514
330	285	-.129	.095	.191	-.541
330	286	-.140	.102	.144	-.664
330	301	-.284	.123	.068	-.790
330	302	-.314	.133	.097	-.964
330	303	-.378	.151	.072	-1.132
330	304	-.336	.180	.276	-1.196
330	305	-.305	.189	.277	-1.771
330	306	-.254	.171	.318	-1.220
330	307	-.269	.145	.235	-.877
330	308	-.210	.141	.227	-1.125
330	309	-.204	.130	.173	-.993
330	310	-.321	.144	.156	-.797
330	311	-.374	.150	.128	-.891
330	312	-.347	.164	.170	-.868

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	313	-.265	.137	.122	-.882
330	314	-.243	.133	.205	-.861
330	315	-.288	.141	.166	-1.075
330	316	-.224	.132	.170	-1.095
330	317	-.312	.148	.105	-.923
330	318	-.317	.176	.359	-1.293
330	319	-.355	.164	.146	-1.091
330	320	-.279	.142	.146	-.885
330	321	-.265	.146	.144	-.832
330	322	-.257	.144	.229	-.739
330	323	-.304	.152	.230	-.822
330	324	-.244	.143	.205	-.770
330	325	-.189	.106	.154	-.552
330	326	-.196	.107	.189	-.587
330	327	-.370	.170	.122	-1.326
330	328	-.311	.156	.150	-1.076
330	329	-.315	.156	.076	-.886
330	330	-.346	.177	.102	-1.157
330	331	-.384	.179	.092	-1.134
330	332	-.274	.166	.239	-.901
330	333	-.224	.145	.238	-.963
330	334	-.250	.152	.177	-1.094
330	335	-.309	.149	.122	-1.085
330	336	-.232	.132	.155	-.858
330	337	-.207	.117	.132	-.636
330	338	-.224	.121	.161	-.803
330	339	-.267	.119	.120	-.792
330	340	-.199	.109	.181	-.676
330	341	-.170	.102	.198	-.601
330	342	-.188	.106	.207	-.659
330	343	-.244	.112	.137	-.772
330	344	-.194	.106	.136	-.678
330	345	-.208	.106	.139	-.670
330	346	-.226	.110	.135	-.698
330	347	-.213	.111	.083	-.721
330	348	-.233	.111	.127	-.797
330	349	-.231	.106	.170	-.680
330	350	-.260	.111	.147	-.698
330	351	-.324	.118	.096	-.784
330	352	-.268	.117	.127	-.771
330	353	-.214	.113	.149	-.808
330	354	-.232	.122	.192	-.822
330	355	-.263	.117	.141	-.786
330	356	-.194	.107	.179	-.718
330	357	-.160	.088	.122	-.463
330	358	-.177	.092	.124	-.531
330	359	-.225	.096	.085	-.595
330	360	-.165	.093	.133	-.492
330	361	-.151	.091	.170	-.535
330	362	-.181	.097	.148	-.616
330	363	-.276	.111	.081	-.757
330	364	-.212	.100	.114	-.635
330	365	-.189	.098	.186	-.518
330	366	-.216	.103	.201	-.572
330	367	-.277	.106	.129	-.633
330	368	-.223	.099	.159	-.616
330	369	-.220	.091	.065	-.600
330	370	-.255	.099	.063	-.726
330	371	-.290	.100	.078	-.619
330	372	-.226	.096	.114	-.546
330	373	-.178	.088	.096	-.456
330	374	-.195	.093	.095	-.497
330	375	-.242	.096	.052	-.541
330	376	-.191	.090	.096	-.469
330	377	-.227	.095	.103	-.536
330	378	-.168	.098	.170	-.488
330	379	-.207	.100	.140	-.534
330	380	-.186	.098	.165	-.494
330	381	-.303	.101	.007	-.685
330	382	-.236	.100	.089	-.641
330	383	-.277	.099	.059	-.668
330	384	-.254	.097	.069	-.634
330	385	-.307	.106	-.024	-.718
330	386	-.227	.097	.100	-.603
330	387	-.264	.108	.020	-.714
330	388	-.234	.105	.041	-.654
330	389	-.283	.098	.019	-.693
330	390	-.217	.101	.082	-.640
330	391	-.245	.100	.070	-.674
330	392	-.210	.097	.115	-.630
330	393	-.262	.103	.033	-.608
330	394	-.194	.104	.110	-.564
330	395	-.228	.105	.082	-.606
330	396	-.195	.103	.123	-.571
330	397	-.250	.095	.067	-.569
330	398	-.195	.099	.142	-.575
330	399	-.307	.131	.134	-1.172
330	400	-.283	.126	.151	-.967
330	401	-.354	.120	.019	-.855
330	402	-.295	.129	.131	-.814
330	403	-.303	.132	.121	-.882
330	404	-.223	.113	.208	-.658
330	405	-.274	.097	.043	-.631
330	406	-.226	.098	.130	-.566
330	407	-.285	.111	.087	-.722
330	408	-.241	.102	.114	-.603
330	409	-.282	.103	.074	-.701
330	410	-.214	.104	.160	-.609
330	411	-.253	.110	.132	-.655
330	412	-.223	.105	.136	-.645
330	413	-.280	.103	.151	-.577
330	414	-.188	.094	.140	-.562
330	415	-.254	.107	.202	-.569
330	416	-.228	.107	.232	-.606
330	417	-.266	.132	.162	-.729
330	418	-.207	.139	.243	-.757
330	419	-.236	.149	.241	-.855
330	420	-.187	.159	.380	-.824
330	421	-.185	.136	.562	-.724
330	422	-.126	.119	.298	-.655
330	423	-.114	.097	.488	-.308
330	424	-.226	.113	.177	-.710
330	425	-.363	.115	.086	-.811
330	426	-.247	.112	.201	-.843
330	427	-.275	.106	.145	-.706
330	428	-.239	.102	.150	-.612
330	429	-.293	.099	.099	-.657
330	430	-.224	.099	.112	-.576
330	431	-.194	.092	.116	-.491
330	432	-.195	.095	.113	-.502
330	433	-.248	.097	.064	-.602
330	434	-.188	.102	.148	-.585
330	435	-.178	.114	.167	-.878
330	436	-.147	.106	.168	-.627
330	437	-.187	.112	.214	-.665
330	438	-.126	.116	.355	-.589
330	439	-.143	.110	.316	-.531
330	440	-.101	.101	.234	-.472
330	441	-.141	.106	.247	-.533
330	442	-.163	.109	.170	-.580
330	443	-.209	.107	.115	-.631
330	444	-.188	.104	.128	-.584
330	445	-.240	.102	.106	-.561
330	446	-.177	.103	.168	-.483
330	447	-.222	.105	.131	-.564
330	448	-.175	.100	.163	-.522
330	449	-.234	.101	.104	-.616
330	450	-.169	.103	.170	-.571
330	451	-.156	.093	.128	-.460
330	452	-.155	.093	.132	-.462
330	453	-.171	.104	.169	-.756
330	454	-.130	.099	.229	-.487
330	455	-.182	.099	.205	-.608
330	456	-.155	.089	.155	-.440
330	457	-.181	.088	.084	-.530
330	801	-.140	.091	.206	-.449
330	901	-.493	.163	-.054	-1.034
330	902	-.443	.182	.128	-1.204
330	903	-.358	.165	.299	-1.016
330	904	-.363	.140	.037	-.833

APPENDIX A -- PRESSURE DATA: CONFIGURATION A: III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
330	905	-.545	.156	-.038	-1.102
330	906	-.509	.171	.076	-1.250
330	907	-.292	.142	.255	-.802
330	908	-.175	.145	.322	-.742
330	909	-.342	.161	.121	-.932
330	910	-.252	.164	.368	-.903
330	911	-.368	.152	.080	-.964
330	912	-.228	.137	.277	-.766
330	913	-.287	.142	.182	-.951
330	914	-.221	.134	.253	-.753
330	915	-.076	.102	.300	-.403
330	916	-.021	.103	.360	-.375
330	917	-.171	.103	.170	-.654
330	918	-.143	.104	.229	-.582
330	919	-.153	.092	.184	-.437
330	919	-.153	.092	.184	-.437
330	920	-.163	.105	.166	-.676
330	921	-.163	.085	.130	-.471
330	922	-.070	.096	.272	-.441
330	923	-.189	.103	.150	-.588
330	924	-.135	.096	.207	-.631
330	925	-.066	.096	.282	-.438
330	926	-.148	.095	.188	-.508
330	927	-.172	.109	.261	-.665
330	928	-.167	.093	.136	-.494
330	929	-.262	.148	.225	-.874
340	1	-.217	.104	.133	-.582
340	2	-.181	.100	.162	-.536
340	3	-.337	.105	.013	-.732
340	4	-.180	.086	.106	-.634
340	5	-.093	.085	.184	-.432
340	6	-.076	.091	.226	-.441
340	7	-.059	.104	.351	-.394
340	8	.039	.106	.512	-.289
340	9	-.030	.098	.281	-.379
340	10	-.124	.116	.219	-.531
340	11	-.278	.133	.115	-.762
340	12	-.165	.109	.149	-.536
340	13	-.172	.095	.133	-.530
340	14	-.241	.108	.106	-.641
340	15	-.237	.107	.079	-.665
340	16	-.261	.108	.051	-.743
340	101	-.198	.131	.174	-.878
340	102	-.222	.135	.155	-.860
340	103	-.296	.146	.114	-.940
340	104	-.252	.147	.151	-.902
340	105	-.222	.143	.180	-1.023
340	106	-.256	.153	.179	-1.226
340	107	-.335	.162	.168	-1.166
340	108	-.291	.158	.255	-1.149
340	109	-.318	.152	.161	-1.030
340	110	-.257	.121	.133	-.763
340	111	-.285	.125	.120	-.776
340	112	-.354	.129	.064	-.844
340	113	-.430	.169	.035	-1.067
340	114	-.074	.127	.558	-.648
340	115	.002	.133	.770	-.497
340	116	.148	.143	.842	-.334
340	117	.211	.144	.676	-.235
340	118	.297	.149	.788	-.154
340	119	.310	.172	.903	-.193
340	120	.222	.190	.927	-.355
340	121	-.015	.200	.768	-1.128
340	122	.058	.139	.576	-.388
340	123	.024	.126	.458	-.419
340	124	-.139	.121	.317	-.576
340	125	-.252	.128	.197	-1.030
340	126	-.189	.108	.148	-.825
340	127	-.223	.113	.167	-.701
340	128	-.304	.127	.129	-.813
340	129	-.272	.144	.182	-.961
340	130	-.215	.122	.145	-.682
340	131	-.235	.127	.186	-.786
340	132	-.248	.133	.151	-.915
340	133	-.250	.130	.173	-.807
340	134	-.207	.128	.202	-.941
340	135	-.252	.139	.213	-.970
340	136	-.288	.135	.167	-.897
340	137	-.547	.230	.144	-1.409
340	138	-.051	.131	.499	-.507
340	139	.167	.132	.735	-.269
340	141	.491	.174	1.183	-.155
340	142	.438	.155	1.020	-.082
340	143	.167	.135	.653	-.269
340	144	-.137	.129	.333	-.578
340	145	-.665	.180	-.157	-1.652
340	146	-.554	.199	.076	-1.282
340	147	-.181	.119	.218	-.819
340	148	-.301	.121	.113	-.867
340	149	-.250	.132	.124	-.817
340	150	-.211	.125	.113	-.906
340	151	-.245	.131	.131	-.872
340	152	-.329	.145	.060	-1.278
340	153	-.297	.167	.188	-1.454
340	154	-.223	.127	.189	-.837
340	155	-.243	.130	.213	-.793
340	156	-.302	.128	.119	-.848
340	157	-.249	.126	.160	-1.008
340	158	-.204	.113	.115	-.941
340	159	-.261	.145	.201	-1.266
340	160	-.642	.241	.019	-1.598
340	161	-.095	.137	.353	-.574
340	162	.161	.121	.582	-.246
340	163	.339	.142	.829	-.147
340	164	.298	.154	.805	-.149
340	165	.041	.126	.497	-.410
340	166	-.146	.122	.383	-.531
340	167	-.645	.209	.070	-1.505
340	168	-.670	.214	.060	-1.381
340	169	-.316	.168	.192	-1.066
340	170	-.311	.141	.083	-1.015
340	171	-.261	.136	.079	-1.306
340	172	-.279	.131	.064	-1.028
340	173	-.259	.128	.084	-.849
340	174	-.270	.130	.095	-1.188
340	175	-.275	.153	.110	-1.635
340	176	-.295	.147	.110	-1.432
340	177	-.262	.136	.134	-1.074
340	178	-.291	.125	.084	-.857
340	179	-.270	.121	.068	-.781
340	180	-.297	.121	.066	-.795
340	181	-.283	.124	.073	-.802
340	182	-.297	.137	.107	-1.080
340	183	-.548	.204	.004	-1.370
340	184	-.092	.130	.299	-.597
340	185	.117	.126	.561	-.329
340	186	.282	.127	.713	-.103
340	187	.362	.149	.884	-.097
340	188	.268	.153	1.035	-.208
340	189	.028	.134	.528	-.416
340	190	-.218	.125	.277	-.690
340	191	-.728	.202	-.116	-1.542
340	192	-.733	.220	-.089	-1.651
340	193	-.321	.148	.173	-1.358
340	194	-.307	.125	.046	-1.297
340	195	-.270	.130	.094	-.953
340	196	-.288	.125	.076	-.973
340	197	-.271	.128	.072	-.954
340	198	-.284	.127	.131	-1.111
340	199	-.294	.148	.221	-1.094
340	200	-.316	.143	.171	-1.049
340	201	-.288	.135	.107	-.956
340	202	-.293	.121	.094	-.889
340	203	-.286	.125	.086	-.829
340	204	-.319	.128	.047	-.872
340	205	-.305	.143	.102	-.970
340	206	-.537	.196	.066	-1.491
340	207	-.083	.124	.370	-.657
340	208	.052	.119	.524	-.469
340	209	.204	.130	.710	-.233

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	210	.218	.144	.786	-.215
340	211	.004	.127	.667	-.405
340	212	-.242	.133	.322	-.698
340	213	-.703	.210	.005	-1.524
340	214	-.643	.214	.063	-1.588
340	215	-.320	.132	.076	-1.086
340	216	-.331	.105	.047	-.875
340	217	-.277	.134	.127	-1.100
340	218	-.269	.123	.120	-.816
340	219	-.265	.124	.111	-.729
340	220	-.306	.132	.097	-.850
340	221	-.298	.139	.133	-1.086
340	222	-.311	.127	.142	-.892
340	223	-.313	.136	.107	-1.006
340	224	-.356	.130	.071	-.852
340	225	-.333	.124	.041	-.910
340	226	-.314	.117	.051	-.867
340	227	-.314	.129	.073	-.987
340	228	-.344	.137	.077	-1.047
340	229	-.531	.190	-.005	-1.450
340	230	-.152	.118	.242	-.564
340	231	.009	.118	.475	-.445
340	232	.113	.117	.523	-.366
340	233	.198	.126	.708	-.280
340	234	.165	.128	.750	-.277
340	235	-.011	.126	.531	-.498
340	236	-.235	.129	.262	-.758
340	237	-.692	.213	-.110	-1.676
340	238	-.518	.176	.119	-1.422
340	239	-.361	.117	.062	-.813
340	240	-.313	.104	.074	-.701
340	241	-.279	.110	.044	-.819
340	242	-.237	.109	.082	-.851
340	243	-.290	.117	.062	-.748
340	244	-.260	.110	.058	-.646
340	245	-.265	.110	.116	-.634
340	246	-.275	.117	.296	-.638
340	247	-.335	.120	.271	-.952
340	248	-.339	.116	.160	-.901
340	249	-.371	.123	.001	-.949
340	250	-.336	.127	.051	-.970
340	251	-.370	.124	-.013	-.890
340	252	-.539	.168	-.031	-1.172
340	253	-.220	.103	.119	-.826
340	254	-.054	.098	.300	-.610
340	255	.016	.099	.359	-.316
340	256	.101	.117	.584	-.349
340	257	-.084	.111	.321	-.549
340	258	-.205	.128	.271	-.724
340	259	-.573	.203	.113	-1.319
340	260	-.395	.165	.114	-1.130
340	261	-.303	.116	.120	-.699
340	262	-.278	.111	.110	-.688
340	263	-.253	.096	.059	-.577
340	264	-.224	.095	.142	-.548
340	265	-.272	.104	.063	-.700
340	266	-.240	.111	.100	-.730
340	267	-.244	.100	.136	-.651
340	268	-.186	.103	.194	-.550
340	269	-.215	.094	.167	-.583
340	270	-.200	.100	.168	-.564
340	271	-.308	.115	.044	-.826
340	272	-.320	.123	.065	-.807
340	273	-.336	.125	.131	-.956
340	274	-.245	.112	.187	-.754
340	275	-.408	.146	.086	-1.032
340	276	-.141	.101	.251	-.495
340	277	-.043	.099	.298	-.418
340	278	.106	.108	.465	-.297
340	279	.061	.127	.498	-.472
340	280	.057	.110	.504	-.320
340	281	-.038	.106	.375	-.366
340	282	-.097	.112	.276	-.470
340	283	-.238	.138	.172	-.738
340	284	-.164	.120	.257	-.564
340	285	-.244	.124	.139	-.687
340	286	-.303	.137	.065	-.762
340	301	-.221	.106	.112	-.646
340	302	-.264	.116	.105	-.741
340	303	-.333	.130	.099	-.969
340	304	-.291	.155	.194	-1.392
340	305	-.250	.137	.159	-1.128
340	306	-.259	.132	.220	-.889
340	307	-.300	.132	.094	-1.047
340	308	-.238	.129	.136	-.938
340	309	-.207	.125	.167	-1.139
340	310	-.263	.114	.114	-.696
340	311	-.320	.120	.076	-.763
340	312	-.312	.127	.120	-.851
340	313	-.228	.118	.156	-.674
340	314	-.271	.132	.216	-.787
340	315	-.330	.149	.181	-.909
340	316	-.270	.144	.167	-.972
340	317	-.238	.106	.107	-.771
340	318	-.285	.126	.131	-.986
340	319	-.342	.129	.069	-.932
340	320	-.291	.121	.080	-.903
340	321	-.283	.123	.133	-.827
340	322	-.277	.132	.116	-.759
340	323	-.336	.145	.064	-.861
340	324	-.272	.137	.165	-.788
340	325	-.203	.098	.141	-.554
340	326	-.214	.099	.158	-.600
340	327	-.317	.117	-.022	-1.071
340	328	-.259	.109	.024	-.885
340	329	-.223	.102	.075	-.645
340	330	-.263	.113	.064	-.723
340	331	-.334	.125	.039	-.875
340	332	-.286	.131	.062	-.924
340	333	-.248	.130	.201	-.899
340	334	-.294	.152	.164	-1.116
340	335	-.340	.142	.101	-.983
340	336	-.287	.140	.133	-1.063
340	337	-.227	.113	.142	-.784
340	338	-.252	.115	.142	-.798
340	339	-.295	.112	.119	-.672
340	340	-.220	.101	.151	-.584
340	341	-.172	.089	.174	-.485
340	342	-.202	.095	.135	-.538
340	343	-.264	.102	.113	-.666
340	344	-.217	.099	.135	-.623
340	345	-.227	.091	.092	-.604
340	346	-.263	.097	.079	-.632
340	347	-.258	.101	.071	-.623
340	348	-.271	.097	.082	-.720
340	349	-.232	.096	.123	-.623
340	350	-.287	.105	.104	-.665
340	351	-.361	.115	.023	-.796
340	352	-.306	.113	.088	-.711
340	353	-.270	.101	.074	-.624
340	354	-.318	.116	.063	-.724
340	355	-.337	.109	.020	-.724
340	356	-.256	.098	.079	-.632
340	357	-.188	.091	.198	-.473
340	358	-.212	.096	.210	-.515
340	359	-.261	.101	.165	-.582
340	360	-.204	.098	.210	-.532
340	361	-.170	.087	.110	-.473
340	362	-.217	.095	.081	-.559
340	363	-.337	.107	.011	-.789
340	364	-.281	.101	.046	-.703
340	365	-.236	.091	.092	-.528
340	366	-.280	.099	.071	-.594
340	367	-.346	.103	-.040	-.747
340	368	-.302	.098	-.028	-.624
340	369	-.264	.093	.050	-.646
340	370	-.312	.101	.037	-.741
340	371	-.358	.106	.066	-.747
340	372	-.308	.108	.080	-.694
340	373	-.242	.094	.118	-.594

APPENDIX A -- PRESSURE DATA:

CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	374	-.256	.096	.147	-.646
340	375	-.296	.099	.152	-.708
340	376	-.230	.093	.174	-.623
340	377	-.264	.099	.069	-.613
340	378	-.214	.104	.134	-.575
340	379	-.251	.107	.143	-.625
340	380	-.237	.108	.158	-.707
340	381	-.350	.110	-.025	-.778
340	382	-.298	.112	.037	-.717
340	383	-.338	.113	.006	-.763
340	384	-.319	.113	.019	-.799
340	385	-.359	.112	.051	-.872
340	386	-.322	.104	-.005	-.722
340	387	-.348	.120	.055	-.745
340	388	-.327	.119	.070	-.735
340	389	-.376	.112	-.030	-.790
340	390	-.324	.121	.040	-.783
340	391	-.332	.113	.012	-.732
340	392	-.286	.107	.048	-.671
340	393	-.311	.101	.043	-.662
340	394	-.250	.105	.115	-.639
340	395	-.277	.108	.109	-.645
340	396	-.246	.108	.120	-.617
340	397	-.295	.099	.014	-.645
340	398	-.254	.107	.080	-.654
340	399	-.379	.118	-.033	-.829
340	400	-.353	.114	-.023	-.885
340	401	-.396	.115	-.035	-.966
340	402	-.350	.124	.050	-1.022
340	403	-.392	.132	.164	-1.053
340	404	-.347	.124	.146	-.898
340	405	-.370	.123	.107	-.848
340	406	-.316	.125	.166	-.844
340	407	-.353	.128	.134	-.841
340	408	-.317	.123	.145	-.783
340	409	-.353	.110	.052	-.811
340	410	-.287	.111	.124	-.757
340	411	-.314	.114	.090	-.744
340	412	-.282	.107	.075	-.695
340	413	-.307	.112	.094	-.670
340	414	-.243	.096	.107	-.568
340	415	-.285	.117	.093	-.661
340	416	-.268	.119	.116	-.667
340	417	-.384	.124	.028	-.934
340	418	-.335	.132	.108	-.950
340	419	-.377	.139	.050	-1.043
340	420	-.355	.151	.258	-1.134
340	421	-.349	.177	.217	-.909
340	422	-.238	.163	.290	-.834
340	423	.055	.120	.435	-.514

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	424	-.283	.127	.132	-.939
340	425	-.408	.131	.004	-1.132
340	426	-.301	.124	.168	-.769
340	427	-.328	.119	.127	-.716
340	428	-.294	.115	.128	-.710
340	429	-.341	.106	.005	-.708
340	430	-.269	.104	.046	-.647
340	431	-.253	.097	.026	-.605
340	432	-.247	.100	.121	-.600
340	433	-.298	.111	.089	-.656
340	434	-.249	.117	.151	-.618
340	435	-.381	.188	.130	-1.749
340	436	-.328	.163	.123	-1.387
340	437	-.362	.152	.104	-.966
340	438	-.289	.163	.273	-.972
340	439	-.236	.162	.240	-.775
340	440	-.154	.136	.274	-.836
340	441	-.178	.119	.201	-.688
340	442	-.201	.116	.152	-.628
340	443	-.253	.112	.072	-.778
340	444	-.235	.110	.095	-.710
340	445	-.300	.109	.034	-.724
340	446	-.242	.110	.098	-.604
340	447	-.279	.111	.072	-.650
340	448	-.242	.106	.079	-.596
340	449	-.291	.098	.014	-.670
340	450	-.232	.101	.090	-.637
340	451	-.216	.105	.144	-.655
340	452	-.210	.104	.154	-.614
340	453	-.357	.154	.066	-.899
340	454	-.218	.128	.171	-.786
340	455	-.252	.124	.128	-.730
340	456	-.205	.099	.106	-.570
340	457	-.238	.094	.075	-.541
340	801	-.173	.084	.171	-.470
340	901	-.456	.160	.027	-.985
340	902	-.414	.171	.087	-1.230
340	903	-.403	.166	.419	-1.119
340	904	-.380	.141	.075	-.861
340	905	-.461	.175	.019	-1.130
340	906	-.471	.194	.008	-1.278
340	907	-.352	.140	.129	-.874
340	908	-.249	.142	.296	-.765
340	909	-.386	.155	.074	-1.035
340	910	-.297	.141	.290	-1.018
340	911	-.290	.124	.094	-.882
340	912	-.255	.134	.167	-.781
340	913	-.302	.122	.107	-.799
340	914	-.276	.137	.187	-.894
340	915	-.007	.106	.495	-.338

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
340	916	.062	.108	.480	-.311
340	917	-.203	.109	.253	-.629
340	918	-.131	.108	.348	-.515
340	919	-.189	.094	.094	-.547
340	919	-.189	.094	.094	-.547
340	920	-.155	.107	.271	-.608
340	921	-.213	.096	.109	-.531
340	922	-.018	.093	.386	-.342
340	923	-.188	.099	.200	-.574
340	924	-.131	.091	.240	-.489
340	925	-.042	.114	.353	-.408
340	926	-.179	.095	.144	-.549
340	927	-.319	.151	.260	-.989
340	928	-.218	.097	.074	-.629
340	929	-.257	.124	.132	-.744
350	1	-.283	.108	.087	-.762
350	2	-.238	.101	.121	-.639
350	3	-.427	.112	-.007	-.872
350	4	-.234	.094	.061	-.609
350	5	-.104	.093	.220	-.423
350	6	-.077	.101	.269	-.426
350	7	-.087	.124	.369	-.502
350	8	.111	.122	.572	-.296
350	9	-.011	.095	.365	-.447
350	10	-.114	.109	.231	-.570
350	11	-.388	.130	.021	-1.001
350	12	-.156	.103	.256	-.590
350	13	-.214	.098	.155	-.539
350	14	-.297	.113	.109	-.744
350	15	-.310	.119	.094	-.745
350	16	-.346	.124	.029	-.860
350	101	-.215	.125	.146	-.807
350	102	-.246	.130	.149	-.924
350	103	-.330	.143	.091	-1.270
350	104	-.280	.144	.173	-1.146
350	105	-.239	.139	.227	-.875
350	106	-.275	.149	.222	-1.096
350	107	-.368	.158	.172	-1.126
350	108	-.347	.154	.113	-1.107
350	109	-.352	.155	.114	-1.110
350	110	-.280	.140	.094	-1.612
350	111	-.314	.153	.073	-1.779
350	112	-.318	.134	.149	-1.251
350	113	-.295	.169	.329	-1.169
350	114	.012	.124	.438	-.435
350	115	.073	.132	.566	-.437
350	116	.181	.147	.749	-.341
350	117	.211	.143	.826	-.287
350	118	.276	.136	.725	-.160
350	119	.234	.148	.705	-.200

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
350	120	.074	.158	.648	-.488
350	121	-.277	.178	.320	-1.027
350	122	-.127	.124	.320	-.702
350	123	-.115	.111	.256	-.603
350	124	-.258	.110	.104	-.760
350	125	-.302	.157	.088	-1.341
350	126	-.235	.126	.104	-1.088
350	127	-.271	.128	.079	-.791
350	128	-.359	.141	.043	-1.018
350	129	-.323	.158	.099	-1.205
350	130	-.257	.133	.147	-.900
350	131	-.284	.134	.157	-.860
350	132	-.323	.145	.139	-.952
350	133	-.300	.127	.096	-.909
350	134	-.246	.120	.097	-.925
350	135	-.289	.128	.066	-1.009
350	136	-.307	.136	.115	-.858
350	137	-.521	.211	.142	-1.499
350	138	.013	.144	.589	-.485
350	139	.234	.143	.799	-.217
350	141	.511	.172	1.133	.048
350	142	.427	.159	1.037	-.034
350	143	.167	.143	.828	-.273
350	144	-.144	.134	.568	-.587
350	145	-.698	.174	-.076	-1.371
350	146	-.632	.185	.019	-1.472
350	147	-.206	.110	.152	-.662
350	148	-.334	.107	.054	-.697
350	149	-.320	.169	.139	-1.360
350	150	-.245	.132	.178	-.949
350	151	-.283	.137	.164	-1.068
350	152	-.375	.147	.084	-1.085
350	153	-.339	.163	.119	-1.274
350	154	-.261	.126	.116	-.977
350	155	-.288	.130	.106	-.879
350	156	-.360	.129	.054	-1.262
350	157	-.301	.126	.097	-1.067
350	158	-.247	.113	.122	-.765
350	159	-.258	.128	.137	-.840
350	160	-.675	.261	.031	-1.734
350	161	-.065	.148	.450	-.615
350	162	.227	.125	.711	-.183
350	163	.393	.149	.905	-.036
350	164	.337	.167	1.144	-.112
350	165	.080	.137	.901	-.311
350	166	-.132	.118	.544	-.492
350	167	-.835	.192	-.216	-1.815
350	168	-.869	.211	-.044	-1.537
350	169	-.326	.148	.124	-1.067
350	170	-.308	.104	-.005	-.746
350	171	-.304	.149	.079	-1.168
350	172	-.333	.143	.046	-1.171
350	173	-.304	.137	.082	-.991
350	174	-.306	.131	.086	-.822
350	175	-.333	.155	.157	-1.093
350	176	-.365	.149	.145	-.916
350	177	-.337	.148	.065	-1.033
350	178	-.326	.138	.083	-.936
350	179	-.321	.140	.104	-.927
350	180	-.357	.143	.096	-1.064
350	181	-.332	.142	.080	-.944
350	182	-.301	.143	.086	-.915
350	183	-.541	.232	.165	-1.629
350	184	-.051	.152	.425	-.575
350	185	.164	.139	.599	-.285
350	186	.345	.144	.867	-.039
350	187	.403	.161	1.004	-.041
350	188	.299	.164	.867	-.150
350	189	.061	.139	.564	-.358
350	190	-.176	.126	.419	-.661
350	191	-.797	.193	.057	-1.664
350	192	-.820	.213	.088	-1.673
350	193	-.332	.128	.061	-1.316
350	194	-.317	.110	.051	-.791
350	195	-.310	.155	.178	-1.066
350	196	-.339	.149	.160	-1.071
350	197	-.312	.140	.204	-.868
350	198	-.317	.133	.134	-.870
350	199	-.346	.156	.088	-1.357
350	200	-.379	.149	.060	-1.171
350	201	-.351	.141	.084	-.947
350	202	-.354	.135	.023	-.999
350	203	-.364	.140	.010	-1.061
350	204	-.412	.145	-.019	-1.115
350	205	-.368	.156	.052	-1.193
350	206	-.583	.211	.158	-1.523
350	207	-.050	.136	.604	-.554
350	208	.111	.126	.602	-.300
350	209	.268	.143	.927	-.269
350	210	.290	.148	.821	-.323
350	211	.049	.132	.529	-.507
350	212	-.234	.136	.364	-.798
350	213	-.781	.214	.057	-1.714
350	214	-.687	.206	.040	-1.572
350	215	-.349	.123	.121	-1.002
350	216	-.408	.120	-.015	-.918
350	217	-.326	.147	.125	-1.088
350	218	-.305	.133	.108	-.908
350	219	-.322	.139	.163	-.848
350	220	-.372	.148	.077	-1.079
350	221	-.360	.155	.081	-1.072
350	222	-.304	.130	.076	-1.045
350	223	-.330	.137	.062	-1.014
350	224	-.401	.139	.085	-1.019
350	225	-.397	.142	.050	-1.205
350	226	-.391	.135	.019	-.980
350	227	-.408	.144	.015	-1.049
350	228	-.407	.139	.046	-1.152
350	229	-.611	.221	.235	-1.495
350	230	-.108	.123	.394	-.543
350	231	.050	.123	.511	-.342
350	232	.156	.126	.586	-.261
350	233	.235	.135	.735	-.170
350	234	.206	.135	.761	-.210
350	235	.022	.134	.596	-.469
350	236	-.212	.140	.326	-.785
350	237	-.707	.233	.014	-1.795
350	238	-.547	.205	.361	-1.598
350	239	-.398	.137	.160	-.943
350	240	-.372	.120	.095	-.892
350	241	-.321	.117	.032	-.996
350	242	-.275	.115	.103	-.753
350	243	-.329	.124	.039	-.871
350	244	-.300	.116	.055	-.847
350	245	-.310	.124	.100	-.758
350	246	-.257	.114	.106	-.759
350	247	-.302	.121	.098	-.782
350	248	-.359	.126	.038	-.922
350	249	-.461	.129	-.098	-1.081
350	250	-.418	.132	-.040	-1.125
350	251	-.384	.114	-.065	-.987
350	252	-.516	.185	.089	-1.192
350	253	-.210	.108	.176	-.685
350	254	-.048	.096	.375	-.489
350	255	.039	.104	.377	-.380
350	256	.108	.130	.685	-.320
350	257	-.066	.111	.308	-.441
350	258	-.196	.125	.234	-.687
350	259	-.608	.214	.088	-1.497
350	260	-.492	.200	.061	-1.253
350	261	-.364	.112	.112	-.886
350	262	-.334	.106	.094	-.781
350	263	-.280	.102	.058	-.663
350	264	-.255	.101	.085	-.658
350	265	-.334	.128	.002	-.979
350	266	-.302	.142	.063	-.968
350	267	-.262	.105	.068	-.680
350	268	-.218	.103	.207	-.621
350	269	-.202	.095	.124	-.614
350	270	-.173	.107	.208	-.719

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
350	271	-.285	.128	.072	-.805
350	272	-.316	.126	.055	-.815
350	273	-.358	.127	.045	-1.029
350	274	-.262	.117	.119	-.814
350	275	-.464	.180	.040	-1.275
350	276	-.161	.107	.223	-.521
350	277	-.042	.097	.339	-.389
350	278	.135	.109	.618	-.190
350	279	.058	.130	.504	-.570
350	280	.127	.122	.540	-.289
350	281	.005	.110	.436	-.349
350	282	-.083	.111	.397	-.479
350	283	-.266	.136	.143	-.914
350	284	-.186	.115	.163	-.640
350	285	-.322	.143	.154	-.945
350	286	-.401	.142	-.030	-.999
350	301	-.199	.101	.166	-.568
350	302	-.257	.113	.152	-.846
350	303	-.309	.123	.091	-.973
350	304	-.280	.129	.152	-1.504
350	305	-.241	.123	.260	-.699
350	306	-.284	.129	.135	-.871
350	307	-.309	.131	.148	-.901
350	308	-.264	.132	.229	-.840
350	309	-.222	.130	.146	-.946
350	310	-.272	.108	.108	-.684
350	311	-.315	.114	.087	-.724
350	312	-.292	.117	.107	-.730
350	313	-.235	.101	.150	-.575
350	314	-.301	.118	.157	-.803
350	315	-.344	.133	.087	-.941
350	316	-.299	.128	.082	-.849
350	317	-.222	.094	.074	-.558
350	318	-.284	.108	.059	-.696
350	319	-.334	.112	-.004	-.816
350	320	-.323	.105	.031	-.755
350	321	-.313	.115	.066	-.745
350	322	-.325	.127	.130	-.790
350	323	-.368	.138	.105	-.892
350	324	-.322	.132	.123	-.822
350	325	-.209	.098	.103	-.600
350	326	-.234	.105	.113	-.894
350	327	-.298	.102	.156	-.625
350	328	-.261	.098	.181	-.581
350	329	-.228	.091	.101	-.628
350	330	-.280	.100	.084	-.719
350	331	-.335	.103	-.024	-.798
350	332	-.317	.108	-.015	-.762
350	333	-.265	.104	.097	-.671
350	334	-.321	.117	.064	-1.061

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
350	335	-.358	.118	.037	-.812
350	336	-.333	.123	.044	-.967
350	337	-.233	.104	.094	-.640
350	338	-.265	.111	.072	-.675
350	339	-.293	.111	.053	-.723
350	340	-.238	.107	.106	-.718
350	341	-.193	.095	.123	-.505
350	342	-.233	.103	.108	-.581
350	343	-.281	.110	.115	-.645
350	344	-.254	.110	.150	-.662
350	345	-.253	.097	.014	-.644
350	346	-.300	.104	.002	-.719
350	347	-.292	.103	.012	-.615
350	348	-.314	.105	-.010	-.715
350	349	-.257	.097	.029	-.591
350	350	-.324	.108	.017	-.737
350	351	-.379	.114	-.020	-.808
350	352	-.342	.113	.011	-.820
350	353	-.284	.110	.143	-.661
350	354	-.344	.126	.108	-.802
350	355	-.347	.119	.135	-.729
350	356	-.279	.109	.190	-.648
350	357	-.205	.092	.127	-.537
350	358	-.235	.099	.143	-.579
350	359	-.270	.104	.132	-.604
350	360	-.228	.102	.165	-.561
350	361	-.194	.090	.111	-.517
350	362	-.252	.102	.081	-.634
350	363	-.373	.112	-.019	-.777
350	364	-.334	.108	.017	-.718
350	365	-.280	.105	.033	-.716
350	366	-.333	.115	.017	-.820
350	367	-.387	.120	-.034	-.861
350	368	-.363	.115	-.020	-.773
350	369	-.310	.097	-.001	-.715
350	370	-.366	.108	-.030	-.809
350	371	-.405	.111	-.057	-.843
350	372	-.377	.113	-.017	-.766
350	373	-.285	.097	.010	-.638
350	374	-.303	.100	.005	-.646
350	375	-.322	.101	-.000	-.662
350	376	-.269	.096	.056	-.571
350	377	-.265	.095	.108	-.638
350	378	-.258	.103	.115	-.667
350	379	-.266	.104	.103	-.697
350	380	-.278	.109	.080	-.716
350	381	-.359	.116	.032	-.741
350	382	-.361	.123	.048	-.766
350	383	-.369	.122	.048	-.815
350	384	-.374	.124	.044	-.912

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
350	385	-.363	.124	-.008	-.810
350	386	-.389	.116	-.062	-.820
350	387	-.378	.132	-.015	-.829
350	388	-.384	.136	-.040	-.955
350	389	-.382	.113	-.012	-.860
350	390	-.387	.128	-.007	-.953
350	391	-.352	.113	.089	-.776
350	392	-.321	.107	.168	-.680
350	393	-.293	.102	.097	-.655
350	394	-.276	.106	.124	-.672
350	395	-.272	.105	.095	-.681
350	396	-.263	.106	.091	-.687
350	397	-.271	.097	.014	-.620
350	398	-.282	.110	.062	-.703
350	399	-.404	.119	-.039	-.865
350	400	-.401	.117	-.053	-.848
350	401	-.410	.120	-.080	-1.017
350	402	-.422	.135	.012	-1.107
350	403	-.430	.152	.217	-1.250
350	404	-.412	.152	.242	-1.262
350	405	-.401	.136	.093	-.929
350	406	-.403	.146	.054	-.989
350	407	-.394	.130	.046	-.873
350	408	-.385	.132	.041	-.941
350	409	-.347	.119	.019	-.781
350	410	-.326	.121	.023	-.781
350	411	-.316	.119	.021	-.793
350	412	-.300	.113	-.002	-.733
350	413	-.281	.114	.185	-.651
350	414	-.270	.096	.019	-.576
350	415	-.285	.120	.186	-.714
350	416	-.292	.126	.192	-.813
350	417	-.372	.113	-.018	-.821
350	418	-.373	.123	.000	-.882
350	419	-.387	.124	-.023	-.872
350	420	-.396	.127	-.046	-.917
350	421	-.423	.156	.164	-1.169
350	422	-.388	.169	.198	-1.059
350	423	-.032	.130	.467	-.524
350	424	-.376	.150	.043	-1.009
350	425	-.364	.121	.067	-.837
350	426	-.338	.128	.155	-.806
350	427	-.329	.117	.103	-.758
350	428	-.315	.112	.052	-.716
350	429	-.315	.107	.032	-.706
350	430	-.296	.109	.035	-.696
350	431	-.297	.103	.031	-.821
350	432	-.281	.106	.064	-.665
350	433	-.277	.097	.059	-.625
350	434	-.279	.108	.179	-.698

APPENDIX A -- PRESSURE DATA: CONFIGURATION A; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN	WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
350	435	-.424	.161	.028	-1.341	350	453	-.452	.192	-.006	-1.679	350	913	-.297	.109	.095	-.687
350	436	-.410	.184	.068	-1.622	350	454	-.362	.147	.113	-1.316	350	914	-.270	.121	.133	-.908
350	437	-.412	.148	.034	-1.054	350	455	-.302	.132	.073	-.995	350	915	.049	.117	.539	-.374
350	438	-.411	.164	.157	-1.078	350	456	-.265	.106	.109	-.647	350	916	.093	.114	.524	-.354
350	439	-.375	.169	.312	-1.026	350	457	-.297	.113	.035	-.694	350	917	-.230	.109	.279	-.587
350	440	-.295	.161	.187	-.882	350	801	-.198	.090	.139	-.542	350	918	-.115	.113	.409	-.516
350	441	-.232	.133	.251	-.913	350	901	-.380	.138	-.031	-1.023	350	919	-.229	.111	.147	-.640
350	442	-.242	.121	.124	-.731	350	902	-.344	.145	.018	-1.063	350	919	-.229	.111	.147	-.640
350	443	-.265	.115	.136	-.819	350	903	-.378	.145	.192	-1.043	350	920	-.142	.113	.319	-.567
350	444	-.263	.114	.130	-.815	350	904	-.342	.133	.028	-.961	350	921	-.280	.100	.025	-.709
350	445	-.299	.128	.106	-.851	350	905	-.392	.162	.094	-1.103	350	922	.051	.112	.618	-.304
350	446	-.291	.133	.134	-.817	350	906	-.392	.179	.054	-1.296	350	923	-.165	.108	.279	-.554
350	447	-.296	.132	.126	-.803	350	907	-.352	.138	.078	-.962	350	924	-.118	.098	.309	-.490
350	448	-.286	.128	.108	-.853	350	908	-.261	.135	.145	-.787	350	925	-.056	.120	.528	-.503
350	449	-.294	.112	.029	-.784	350	909	-.378	.157	.089	-1.181	350	926	-.196	.097	.117	-.544
350	450	-.283	.117	.088	-.812	350	910	-.334	.136	.119	-.918	350	927	-.442	.158	.130	-1.190
350	451	-.275	.124	.110	-.960	350	911	-.292	.105	.059	-.682	350	928	-.259	.107	.048	-.634
350	452	-.267	.121	.123	-.908	350	912	-.290	.126	.121	-.789	350	929	-.253	.113	.140	-.646

APPENDIX A -- PRESSURE DATA: CONFIGURATION C; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
50	208	.175	.136	.678	-.323
50	222	-.235	.120	.184	-.641
50	246	-.244	.105	.069	-.638
50	263	-.358	.152	.068	-1.069
50	430	-.426	.156	.172	-1.302
52	208	.179	.131	.587	-.278
52	222	-.206	.116	.190	-.627
52	246	-.215	.102	.147	-.639
52	263	-.320	.149	.094	-.982
52	430	-.378	.145	.078	-1.185
54	208	.147	.135	.633	-.348
54	222	-.204	.121	.175	-.607
54	246	-.207	.107	.135	-.645
54	263	-.339	.164	.067	-1.122
54	430	-.384	.153	.047	-1.145
56	208	.124	.142	.549	-.400
56	222	-.215	.125	.208	-.641
56	246	-.234	.111	.128	-.768
56	263	-.430	.177	.022	-1.230
56	430	-.450	.161	.084	-1.358
58	208	-.205	.116	.211	-.791
58	222	-.195	.117	.220	-.731
58	246	-.216	.112	.123	-.598
58	263	-.406	.164	.033	-1.041
58	430	-.417	.159	-.004	-1.095
60	208	.018	.165	.549	-.601
60	222	-.176	.112	.263	-.583
60	246	-.208	.106	.164	-.610
60	263	-.402	.155	.016	-1.041
60	430	-.413	.151	-.042	-1.495
62	208	-.205	.117	.172	-.671
62	222	-.170	.129	.293	-.661
62	246	-.211	.123	.245	-.677
62	263	-.451	.183	.046	-1.215
62	430	-.450	.173	-.017	-1.294
64	208	.002	.173	.514	-.616
64	222	-.153	.119	.267	-.528
64	246	-.181	.106	.200	-.561
64	263	-.416	.160	.032	-1.084
64	430	-.417	.146	-.058	-.986
66	208	-.148	.112	.233	-.535
66	222	-.102	.123	.365	-.559
66	246	-.135	.112	.298	-.587
66	263	-.422	.164	.043	-1.287
66	430	-.412	.149	.002	-1.086
68	208	-.077	.182	.498	-.693
68	222	-.088	.125	.380	-.579
68	246	-.121	.115	.361	-.539
68	263	-.423	.167	.023	-1.235
68	430	-.417	.157	-.028	-1.238

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
70	208	-.123	.175	.453	-.801
70	222	-.063	.130	.388	-.575
70	246	-.111	.118	.319	-.486
70	263	-.427	.166	.058	-1.148
70	430	-.415	.151	.033	-.992
130	208	-.269	.100	.084	-.658
130	222	.141	.136	.632	-.289
130	246	.117	.118	.520	-.319
130	263	.130	.117	.528	-.237
130	430	.098	.106	.526	-.281
132	208	-.252	.104	.064	-.601
132	222	.122	.143	.658	-.352
132	246	.107	.136	.716	-.497
132	263	.113	.119	.503	-.389
132	430	.089	.110	.451	-.374
134	208	-.265	.124	.086	-1.168
134	222	.085	.144	.556	-.549
134	246	.077	.134	.551	-.577
134	263	.145	.113	.572	-.196
134	430	.116	.108	.560	-.223
136	208	-.244	.128	.129	-1.455
136	222	.059	.141	.530	-.455
136	246	.053	.133	.439	-.517
136	263	.155	.112	.639	-.245
136	430	.126	.103	.511	-.225
138	208	-.212	.128	.187	-1.178
138	222	.043	.146	.439	-.599
138	246	.052	.134	.442	-.656
138	263	.144	.110	.471	-.292
138	430	.116	.104	.422	-.252
140	208	-.224	.138	.175	-1.869
140	222	.008	.149	.648	-.512
140	246	.014	.141	.502	-.420
140	263	.151	.119	.709	-.322
140	430	.132	.106	.588	-.264
142	208	-.252	.170	.164	-1.396
142	222	-.049	.151	.480	-.735
142	246	-.029	.141	.474	-.741
142	263	.158	.113	.622	-.228
142	430	.147	.108	.538	-.182
144	208	-.271	.168	.130	-1.268
144	222	-.076	.147	.373	-.610
144	246	-.054	.136	.429	-.599
144	263	.144	.119	.583	-.435
144	430	.140	.108	.617	-.237
146	208	-.231	.121	.114	-.896
146	222	-.128	.155	.319	-.723
146	246	-.095	.140	.320	-.616
146	263	.167	.120	.697	-.380
146	430	.163	.109	.613	-.192

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
148	208	-.231	.157	.199	-1.456
148	222	-.138	.149	.333	-.797
148	246	-.095	.139	.326	-.595
148	263	.157	.118	.670	-.439
148	430	.156	.108	.588	-.212
150	208	-.178	.105	.154	-.656
150	222	-.156	.141	.234	-.742
150	246	-.115	.133	.326	-.582
150	263	.140	.122	.579	-.434
150	430	.155	.108	.548	-.152
190	208	-.451	.126	-.100	-.973
190	222	-.539	.201	.069	-1.890
190	246	-.554	.192	-.047	-1.343
190	263	-.652	.263	.156	-1.873
190	430	.133	.123	.542	-.277
192	208	-.448	.127	-.044	-1.074
192	222	-.565	.212	-.035	-2.198
192	246	-.582	.196	-.061	-1.682
192	263	-.656	.271	.040	-2.145
192	430	.094	.127	.583	-.293
194	208	-.474	.130	-.045	-1.066
194	222	-.555	.199	.018	-1.583
194	246	-.563	.187	-.010	-1.436
194	263	-.614	.250	.088	-1.606
194	430	.063	.135	.550	-.338
196	208	-.478	.134	-.038	-.951
196	222	-.544	.215	.105	-1.455
196	246	-.524	.206	-.030	-2.116
196	263	-.559	.247	.090	-1.760
196	430	.030	.134	.544	-.363
198	208	-.473	.126	-.116	-1.549
198	222	-.549	.214	.164	-1.429
198	246	-.538	.201	-.020	-1.562
198	263	-.583	.263	.080	-2.035
198	430	.040	.138	.667	-.411
200	208	-.502	.131	.006	-1.113
200	222	-.550	.214	.010	-1.988
200	246	-.509	.184	-.004	-1.364
200	263	-.527	.239	.024	-1.829
200	430	-.007	.113	.479	-.364
202	208	-.501	.129	-.136	-1.080
202	222	-.554	.208	.036	-1.839
202	246	-.528	.197	-.021	-1.323
202	263	-.524	.229	.146	-1.851
202	430	-.021	.113	.404	-.369
204	208	-.526	.139	-.099	-1.066
204	222	-.549	.220	.086	-1.624
204	246	-.526	.197	.037	-1.360
204	263	-.527	.240	.157	-2.185
204	430	-.034	.109	.755	-.367

APPENDIX A -- PRESSURE DATA: CONFIGURATION C; III HOUSTON CENTER, HOUSTON

WD	TAP	CPMEAN	CPRMS	CPMAX	CPMIN
206	208	-.518	.144	-.061	-1.351
206	222	-.517	.206	.014	-1.688
206	246	-.482	.184	.034	-1.622
206	263	-.479	.225	.102	-1.671
206	430	-.046	.109	.453	-.376
208	208	-.515	.133	-.074	-1.218
208	222	-.524	.197	-.000	-1.432
208	246	-.506	.180	-.033	-1.638
208	263	-.503	.224	.105	-2.182
208	430	-.068	.098	.267	-.418
210	208	-.515	.136	-.013	-1.177
210	222	-.534	.204	-.033	-1.675
210	246	-.524	.202	.164	-1.751
210	263	-.506	.244	.210	-1.925
210	430	-.069	.103	.281	-.414
212	208	-.530	.141	-.124	-1.175
212	222	-.494	.181	-.011	-1.625
212	246	-.502	.169	.022	-1.228
212	263	-.486	.219	.073	-1.729
212	430	-.066	.096	.249	-.471
214	208	-.498	.127	-.100	-.973
214	222	-.493	.180	-.022	-1.768
214	246	-.507	.174	-.030	-1.391
214	263	-.490	.219	.168	-2.117
214	430	-.080	.097	.494	-.417
216	208	-.491	.130	-.155	-1.003
216	222	-.440	.146	-.070	-1.311
216	246	-.478	.160	-.023	-1.702
216	263	-.461	.204	.054	-1.864
216	430	-.082	.097	.244	-.405
218	208	-.487	.131	-.068	-1.148
218	222	-.433	.148	.047	-1.674
218	246	-.475	.161	-.056	-2.395
218	263	-.457	.193	.101	-1.567
218	430	-.090	.092	.218	-.434
220	208	-.489	.133	-.068	-1.217
220	222	-.424	.133	-.005	-1.173
220	246	-.473	.155	-.110	-1.614
220	263	-.460	.194	.098	-1.844
220	430	-.095	.092	.266	-.400
222	208	-.465	.127	-.108	-1.105
222	222	-.423	.124	-.071	-1.585
222	246	-.482	.141	-.093	-1.652
222	263	-.475	.201	.153	-1.680
222	430	-.102	.091	.231	-.474
224	208	-.469	.130	-.101	-1.275
224	222	-.394	.107	-.043	-.950
224	246	-.453	.139	-.083	-1.236
224	263	-.442	.189	.242	-1.474
224	430	-.102	.093	.324	-.467
226	208	-.496	.138	-.091	-1.196
226	222	-.411	.119	-.025	-.849
226	246	-.471	.147	-.067	-1.271
226	263	-.453	.185	.068	-1.351
226	430	-.122	.101	.243	-.449
228	208	-.482	.134	.026	-1.083
228	222	-.392	.109	-.011	-.908
228	246	-.452	.136	-.101	-1.480
228	263	-.434	.173	.099	-1.447
228	430	-.116	.098	.267	-.493
230	208	-.481	.144	-.040	-1.351
230	222	-.372	.116	.130	-.892
230	246	-.423	.132	.093	-1.137
230	263	-.410	.177	.114	-1.544
230	430	-.120	.107	.343	-.530