

WIND-TUNNEL STUDY OF
RAHARDJA CENTER, SINGAPORE

by

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LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
$C_{P_{\text{mean}}}$	Mean pressure coefficient, $\frac{(p-p_{\infty})_{\text{mean}}}{q}$
$C_{P_{\text{rms}}}$	Root-mean-square pressure coefficient, $\frac{((p-p_{\infty})-(p-p_{\infty})_{\text{mean}})_{\text{rms}}}{q}$
$C_{P_{\text{max}}}$	Peak maximum pressure coefficient, $\frac{(p-p_{\infty})_{\text{max}}}{q}$
$C_{P_{\text{min}}}$	Peak minimum pressure coefficient, $\frac{(p-p_{\infty})_{\text{min}}}{q}$
$()_{\text{min}}$	Minimum value during data record
$()_{\text{max}}$	Maximum value during data record
D	Characteristic dimension (building height, width, etc.)
E	Mean voltage
E_{rms}	Root-mean-square of fluctuating voltage
f_o	Natural cyclic frequency, Hz
g	Peak factor, $= (\hat{M} - \bar{M})/\sigma_M$
m^*	Generalized mass
m_i	Lumped mass at floor i
M	Resultant base moment of applied wind load
\bar{M}	Response (static equivalent) base moment
\bar{M}, M', \hat{M}	Mean, fluctuating, and expected peak values of M
p	Pressure
p_{∞}	Static pressure in wind tunnel above model
P_i	Resultant force of applied wind load acting at floor i
\bar{P}_i	Response (static equivalent) force acting at floor i
$\bar{P}_i, P_i', \hat{P}_i$	Mean, fluctuating, and expected peak values of P_i

<u>Symbol</u>	<u>Definition</u>
q	Reference dynamic pressure, $\rho U_{\infty}^2/2$
$S_{()}(f)$	Power spectral density of ()
T_u	Turbulence intensity $\frac{U_{rms}}{U_{\infty}}$ or $\frac{U_{rms}}{U}$
U	Local mean velocity
U_{∞}	Reference mean velocity outside the boundary layer
U_{rms}	Root-mean-square of fluctuating velocity
x, y	Horizontal coordinates
z	Height above surface
z_i	Height of floor i
δ	Height of boundary layer
Δ_i	Lateral displacement of floor i
$\bar{\Delta}_i, \Delta'_i, \hat{\Delta}_i$	Mean, fluctuating, and expected peak values of Δ
$\lambda_{()}$	Scale factor, $()_{model}/()_{prototype}$
v	Kinematic viscosity of approach flow
ρ	Density of approach flow
σ_M	Standard deviation of M , $= M'_{rms}$
σ_{P_i}	Standard deviation of P_i , $= (P'_i)_{rms}$
σ_{Δ_i}	Standard deviation of Δ_i , $= (\Delta'_i)_{rms}$
θ	Rotation of a straight line approximating the building displacement
θ'	Fluctuating rotation, approximates the generalized coordinate ξ
ζ	Critical damping ratio

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 substantially influence the 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 glazing 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. In flexible structures, wind-induced motion may cause occupant discomfort if not anticipated during the design phase.

Techniques have been developed for wind-tunnel modeling of proposed structures which allow the the prediction of wind pressures on cladding 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 equal with reasonable wind velocities. To accomplish this the air velocity in the wind tunnel would have to be as large as the model scale factor times the prototype wind velocity, a velocity which would introduce unacceptable compressibility effects. However, for sufficiently high Reynolds numbers ($>2 \times 10^4$) the pressure coefficient at any location on the structure will be essentially constant for a large range of Reynolds numbers. Typical values encountered are 10^7 - 10^8 for the full-scale and 10^5 - 10^6 for the wind-tunnel model. In this range acceptable flow similarity is achieved without precise Reynolds number equality.

Modeling of the building's dynamic response required that dynamic and aeroelastic tests of the structure be performed. A three degrees-of-freedom model was assumed and scaled for the wind-tunnel conditions. Requirements for similarity between model and full-scale building for these models are discussed in references [3], [4], and [5]. Generally, for the three degrees-of-freedom of interest, the aeroelastic model test requires that the ratio between the aerodynamic, inertia, damping and elastic forces be the same for the model and the prototype. To simulate the building motion, a rigid model was elastically supported by springs at its base. The base permits rotation of the model around two orthogonal axes located in the horizontal plane, and about a vertical axis. The spring stiffnesses and mass moments of inertia of the model about these axes were selected to provide a ratio of the frequencies (for the assumed degrees-of-freedom) equivalent to the full scale while providing for a convenient range of wind-tunnel velocities to ensure equivalence of the reduced velocity between model and full scale. The model is provided with a damping mechanism to apply a range of damping to the model.

For the dynamic tests, a rigid model was supported in a manner similar to the aeroelastic model except that the natural frequencies of the three degrees of freedom of the model were significantly higher than the frequencies in the aerodynamic loading spectrum of the wind-induced forces. This enables direct measurement of the fluctuating wind loads on the building. Mathematical computation using dynamic properties of the full-scale building in combination with wind-tunnel measurements of loading spectra allowed the building response to be determined.

1.2 The Wind-Tunnel Test

The wind engineering study was performed on the Rahardja Center building group modeled at a scale of 1:400. The rigid building models for pressure data acquisition were constructed of clear plastic fastened together with screws. The structure was modeled in detail to provide accurate flow patterns in the wind passing over the building surfaces. To achieve similarity in wind effects, the area surrounding the test building was also modeled. A flow visualization study was made (using smoke 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 pressure test models, equipped with pressure or "piezometer" taps, were exposed to an appropriately modeled atmospheric wind in the wind tunnel and the fluctuating pressure at each tap measured electronically. The model, and the modeled area, were rotated 10 degrees and another set of data recorded for each pressure tap. The entire 360-degree range was covered at 10-degree intervals.

Data were recorded, analyzed and processed by an on-line computerized data-acquisition system. Pressure coefficients of several types were calculated by the computer for each reading on each piezometer tap and were printed in tabular form as computer readout. Using wind data applicable to the building site, representative wind velocities were selected for combination with measured pressures on the building model. Integration of test data with wind data resulted in prediction of peak local wind pressures for design of glass or cladding. Overall mean forces and moments on the structure were obtained by integrating the mean pressures over the building's surface. Pressure

contours were 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, locations were chosen at the base of the building where wind velocities were measured to determine the relative comfort or discomfort of pedestrians in plaza areas, near building entrances, near building corners, or on sidewalks. A reference pedestrian position was 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 dynamic response of the building was evaluated using the aeroelastic models, which were instrumented to sense base moments. These measurements were made at one value of damping and approach wind velocity for each of 36 wind directions to determine building response sensitivity to different wind directions. Four wind directions were selected for further study, for which response measurements were made over a range of wind velocities and damping values.

The dynamic response information obtained by the aeroelastic model was augmented by data obtained from the high-frequency dynamic balance. This permitted evaluation of building response at natural frequencies other than those specified in the preliminary building design.

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. The tunnel has a flexible roof adjustable in height to maintain a zero pressure gradient along the test section. The mean velocity can be adjusted continuously in the tunnel to the maximum velocity available.

2.2 Pressure 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 were constructed of 1/2-in. (1.3 cm) thick acrylic plastic and fastened together with metal screws. Significant variations in the building surface were machined into the plastic. Piezometer taps (1/16 in. (1.6 mm) diameter) were drilled normal to the exterior vertical surfaces in rows at a number of elevations between the bottom and top of the building. Similarly, taps were placed in the roof and on sloping, protruding, or otherwise distinctive features of the building that might need investigation.

Pressure tap locations were chosen so that the entire surface of the building could 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.

Photographs of the pressure model installed in the wind tunnel are shown in Figure 8.

2.3 Dynamic and Aeroelastic Models

Both the dynamic and aeroelastic models are designed to study the dynamic response of the fundamental mode of vibration of a tower in three independent components: translation in two orthogonal directions, and rotation about a vertical axis. To accomplish this, in each component the structure is reduced to an equivalent single-degree-of-freedom (SDOF) system using the modal analysis technique of generalized coordinates. This procedure is described in Appendix C. The equivalent SDOF system is characterized by a generalized mass m^* , generalized stiffness k^* , generalized load p^* , and generalized response ξ . A linear mode shape is assumed, for which the test models used represent an exact analogy. For this case, it is shown in Appendix C that the corresponding model properties to the above generalized values are mass moment of inertia I , rotational stiffness k_θ , externally-applied base moment M , and axis rotation θ .

The dynamic properties of generalized mass, generalized stiffness, and natural frequency assumed in this study are given in Table 8. (The coordinate systems are defined in Figure 4.) The natural frequency f_0 and mass matrix $[m]$ were specified by T. Y. Lin personnel. The generalized mass m^* , or moment of inertia I , was calculated using Equation (C.4). The generalized stiffness k^* , or rotational stiffness k_θ was then calculated using Equation (C.3).

Dynamic Model - The construction of the dynamic model and balance system is shown in Figure 5. The model was built up of solid styrofoam, and cored through the center to accept a 1 1/2-in. diameter aluminum tube. The tube was bolted to the balance plate as shown, and provided the high rigidity required to respond as an SDOF system at a high natural frequency. The balance plate was connected to a heavy steel reaction ring via necked-down sections of steel crossbeams. These "springs" deform in both the horizontal and vertical planes, and thus provide three components of motion-rotation about the x, y, and z axes shown.

The dynamic balance was instrumented with strain gages to measure the base moment M , or generalized load p^* , about these three axes. Scaling was accomplished by expressing this load as a moment coefficient, defined as

$$C_M = \frac{M}{q A L}$$

where q is the dynamic reference pressure $\rho U_\infty^2/2$, A is a reference area, and L is a characteristic reference length such as the height of the building. Measured coefficients are applicable to both the model and prototype.

Once the generalized load is determined, its power spectral density $S_M(f)$ is computed (Appendix C). The fluctuating mean square of the response base moment can then be computed by combining equations (C.7) and (C.9):

$$\sigma_M^2 = \int_0^{\infty} S_M(f) df = \int_0^{\infty} |H(f)|^2 S_M(f) df$$

All of the essential dynamic properties of the building are incorporated in $|H(f)|^2$, the mechanical admittance:

$$|H(f)|^2 = \frac{1}{[1-(f/f_o)^2]^2 + (2\zeta f/f_o)^2}$$

where f_o is the natural frequency, and ζ is the critical damping ratio.

An accepted procedure in the present context is to use the so-called white noise approximation; then

$$\sigma_M^2 = S_M(f_o) \int_0^{\infty} |H(f)|^2 df$$

This integration can be performed analytically, with the result

$$\sigma_M^2 = \frac{\pi}{4\zeta} f_o S_M(f_o) \quad (5)$$

The square root of this is the desired rms dynamic response σ_M . Note that any value of natural frequency f_o and damping ratio ζ may be incorporated after the test results, $S_M(f)$, are obtained.

Aeroelastic Model - As noted previously, the aeroelastic model system is similar to the dynamic system, but it is built with particular values of mass, stiffness, and damping. This requires a lightweight model on which additional weight may be added for "tuning" purposes, and a relatively flexible base balance with adjustable stiffness. The system used is shown in Figure 6. The base moment measured in the aeroelastic model is the response moment M , as opposed to the

externally-applied base moment M which is measured by the dynamic balance.

The mass, stiffness--and therefore natural frequency--and damping in the model are scaled values of the prototype generalized values summarized in Table 8. The scale factors λ , defined as

$$\lambda_x = \frac{x_m}{x_p} = \frac{\text{value of } x \text{ in model}}{\text{value of } x \text{ in prototype}}$$

may be determined by dimensional analysis. The length scale λ_D and velocity scale λ_U are essentially determined by constraints on the wind tunnel. The time scale is simply $\lambda_T = \lambda_D \lambda_U^{-1}$, and the reciprocal of this is the frequency scale

$$\lambda_f = \lambda_U \lambda_D^{-1}$$

which determines the natural frequencies of the model. This equation is another way of stating that the reduced frequency fD/U is equal for model and prototype. The density scale λ_ρ is determined by the ratio of air density in the wind tunnel to that in the prototype environment at sea level; due to the elevation of Fort Collins this number is 0.86. The units of pressure p are most easily recalled from the dynamic pressure equation $q = \rho U^2/2$, so that the pressure scale is

$$\lambda_p = \lambda_\rho \lambda_U^2$$

This is another way of saying that pressure coefficients, as described in Section 4.3, are equal for model and prototype. Multiplying pressure by length squared yields force, and multiplying by length again produces a moment; thus

$$\lambda_M = \lambda_\rho \lambda_U^2 \lambda_D^3$$

where M is any moment.

In a similar manner, a mass ratio could be defined as $\lambda_m = \lambda_\rho \lambda_D^3$; multiplying by length squared produces a moment of inertia; thus

$$\lambda_I = \lambda_\rho \lambda_D^5$$

where I_m is the required mass moment of inertia of the model, and I_p is the generalized mass of the prototype.

The required rotational stiffness k_θ of the model may be determined through the combination of I and f_o , since $(2\pi f_o)^2 = k/I$ or $k = (2\pi f_o)^2 I$; thus

$$\begin{aligned} \lambda_k &= \lambda_f^2 \lambda_I \\ &= (\lambda_U \lambda_D^{-1})^2 (\lambda_\rho \lambda_D^5) \\ &= \lambda_\rho \lambda_U^2 \lambda_D^3 \end{aligned}$$

This is equivalent to λ_M , since rotational stiffness and moment have the same dimension. These scale factors are summarized in Table 9.

In practice, both stiffness and frequency are easier to measure than moment of inertia, so the model is tuned by first adjusting the balance to approximately the right stiffness, and then adding weights to the model until the correct natural frequency is obtained. It is generally difficult to obtain the correct stiffness and frequency simultaneously for all three components of motion, and stiffness matching is relaxed in favor of frequency matching (since unequal frequency scales for the three components would imply the awkward situation of unequal velocity scales). This results in model displacements which are not true to scale; but, since aeroelastic loading effects are not significant, moments are not affected. For this reason, the model base moment is treated as the primary response parameter. It is possible to compute scale factors for displacement, velocity, and acceleration of

the structure, based on the actual (rather than ideal) stiffness ratio; it is simpler, however, to scale the base moment up to prototype values, and then compute these parameters based on the actual prototype stiffness.

2.4 Model Environment

A circular area of 1300 ft (400 m) in radius surrounding the building was modeled in detail. Structures within the modeled region were made from styrofoam and cut to the individual building geometries. The model and its surroundings were mounted on a turntable (Figure 2) near the downwind end of the test section. Any significant buildings or terrain features which did not fit on the turntable were placed on removable pieces and placed upwind of the turntable for appropriate wind directions. A plan view of the building and its surroundings is shown in Figure 7. This environment was used for the pressure model, the dynamic model, and the aeroelastic model.

The region upstream from the modeled area was covered with a randomized roughness constructed using various sized cubes placed on the floor of the wind tunnel. Spires were installed at the test-section entrance to provide a thicker boundary layer than would otherwise be available. The thicker boundary layer permitted a somewhat larger scale model than would otherwise be possible. The spires were approximately triangularly-shaped pieces of 1/2-in. (1.3 cm) thick plywood 6 in. (15 cm) wide at the base and 1 in. (2.5 cm) wide at the top, extending from the floor to the top of the test section. They were placed so that the broad side intercepted the flow. A barrier approximately 8 in. (20 cm) high was placed on the test-section floor downstream of the spires to aid in development of the boundary-layer flow.

The distribution of the roughness cubes and the spires in the roughened area was designed to provide a boundary-layer thickness of approximately 4 ft (1.2 m), and a velocity profile power-law exponent similar to that expected to occur in the region approaching the modeled area for each wind direction. Photographs of the completed pressure model in the wind tunnel are shown in Figure 8. The wind-tunnel ceiling was adjusted after placement of the model to obtain a zero pressure gradient along the test section.

3. INSTRUMENTATION AND DATA ACQUISITION

3.1 Flow Visualization

Making the air flow visible in the vicinity of the model is helpful (a) in understanding and interpreting mean and fluctuating pressures, (b) in defining zones of separated flow and reattachment and zones of vortex formation where pressure coefficients may be expected to be high, (c) in interpretation of building dynamic response, and (d) in indicating areas where pedestrian discomfort may be a problem. Titanium tetrachloride smoke was 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 were measured at each of the pressure taps on the model structure. Data were obtained for 36 wind directions, rotating the entire model assembly in a complete circle. Up to 184 pieces of 1/16 in. (1.6 mm) I.D. plastic tubing were used to connect 184 pressure ports at a time to four 48-tap pressure switches mounted underneath the model. The switches were designed to minimize

the attenuation of pressure fluctuation across the switch. Each of the 184 measurement ports was directed in turn by the switch to one of four pressure transducers mounted close to the switch. Four pressure input ports not used for transmitting building surface pressures were connected to a common tube leading to a pitot tube mounted inside the wind tunnel which provided a means of automatically monitoring the tunnel speed. The switch was operated under control of the data acquisition system. The other four input ports were used for monitoring of the transducer zero.

The pressure transducers used were Setra differential transducers (Model 237) with a 0.10 psid (690 Pad) range. Reference pressures were 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 measured 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 was fed to an on-line data acquisition system consisting of a Hewlett-Packard 21 MX computer, disc unit, card reader, printer, Digi-Data digital tape drive and a Preston Scientific analog-to-digital converter. The data were processed immediately into pressure coefficient form as described in Section 4.3 and stored for printout or further analysis.

All four transducers were 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 9. 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 Wind Velocity

Mean velocity and turbulence intensity profiles were measured upstream of the model, using a hot-film anemometer, to confirm that an approach boundary-layer flow appropriate to the site had been established. Tests were made at one wind velocity in the tunnel. This velocity was well above that required to satisfy Reynolds number similarity between the model and the prototype as discussed in Section 1.1.

In addition, mean velocity and turbulence intensity measurements were made 5 to 7 ft (1.5 to 2.1 m) (prototype) above the surface at a dozen or more locations near the building for 16 wind directions. The measurement locations are shown on Figure 7. The surface measurements are indicative of the wind environment to which a pedestrian at the measurement location should be subjected. The locations were chosen to determine the degree of pedestrian comfort or discomfort at the building corners where relatively severe conditions frequently are found, near building entrances and on adjacent sidewalks where pedestrian traffic is heavy, and in open plaza areas. A reference pedestrian position, located away from the building, was also tested. This data is 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.

The pedestrian-level measurements were made with a single hot-film anemometer mounted with its axis vertical. The instrumentation used is a TSI constant temperature anemometer (Model 1050) with a 0.001 in. (0.025 mm) diameter platinum film sensing element 0.020 in. (0.508 mm) long. Output is directed to the on-line data acquisition system for analysis.

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

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

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

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

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

3.4 Base Moments

The spring elements in the balance fixtures for both the dynamic and aeroelastic models (see Figures 5,6) were instrumented with strain gages to sense the rotation of the model. In the aeroelastic balance, where the spring deformations were quite large, conventional foil gages

(Micro-Measurements-type MA-06-125AD-120) were used. In the dynamic balance spring deformations are very small, so semiconductor gages (BLH-type SPB3-07-35), which have a much higher sensitivity, were used.

The strain gages in both models were formed into three bridge networks--one for each of the three degrees-of-freedom of the building motion. These bridges were conditioned and monitored by Honeywell Accudata 218 Gage Control/Amplifier units which provided excitation to the bridge and amplification of the bridge output. These signals were processed through the on-line data-acquisition system described earlier. The output signal was converted to a moment value using the results of a static calibration of the balance.

During test runs data were taken at sample rates ranging from 150 to 450 samples per second on each channel. The sample duration time was selected on the basis of repeatability of sampling runs made early in the testing phase, and corresponds to about 1 hour at full scale. The data were processed immediately to determine mean, rms, and peak loads. The data were also stored on digital tape for further analysis.

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 10. Profiles were taken upstream from the model which are characteristic of the boundary layer approaching the model. The boundary-layer thickness, δ , is shown in Figure 10. 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 10.

Profiles of longitudinal turbulence intensity in the flow approaching the modeled area are also shown in Figure 10. 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 ,

$$T_u = \frac{U_{rms}}{U}$$

Velocity data obtained at each of the pedestrian measurement locations shown in Figure 7 are listed in Table 2 as mean velocity U/U_{∞} , turbulence intensity U_{rms}/U_{∞} , and largest effective gust

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

These data are plotted in polar form in Figure 11. Measurements were taken 5 to 7 ft (1.5 to 2.1 m) 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 local wind frequency by direction and magnitude. These data, usually obtained at an elevation of about 30-40 ft (9 to 12 m), 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 12.

Interpretation of Figure 12 is aided by a description of the effects of wind of various magnitudes on people. The earliest quantitative description of wind effects was established by Sir Francis Beaufort in 1806 for use at sea and is still in use today. Several recent investigators have added to the knowledge of wind effects on pedestrians. These investigations along with suggested criteria for acceptance have been summarized by Penwarden and Wise [6] and Melbourne [7]. The Beaufort scale (from reference 6), based on mean velocity only, is reproduced as Table 4 including qualitative descriptions of wind effects. Table 4 suggests that mean wind speeds below 12 mph (5.4 m/s) are of minor concern and that mean speeds above 24 mph (10.8 m/s) are definitely inconvenient. Quantitative criteria for

acceptance from reference [7] are superimposed as dashed lines on Figure 12. The peak gust curves shown in Figure 12 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 12 are presented in Section 5.2.

Because some pedestrian wind measuring positions are purposely chosen at sites where the smoke test showed large velocities of small spatial 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 11.

4.3 Pressures

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

$$C_{p_{\text{mean}}} = \frac{(p-p_{\infty})_{\text{mean}}}{q}$$

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

$$q = \rho U_{\infty}^2 / 2$$

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

$$C_{P_{rms}} = \frac{\left((p-p_{\infty}) - (p-p_{\infty})_{mean} \right)_{rms}}{q}$$

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:

$$C_{P_{max}} = \frac{(p-p_{\infty})_{max}}{q}$$

$$C_{P_{min}} = \frac{(p-p_{\infty})_{min}}{q}$$

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 apressure tap, the largest 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, q , selected for the field site. 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. 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 [9].

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 pressure 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 loads shown in Table 6 have been plotted on developed elevation views of the structure, Figure 13. For control of water infiltration from outside to inside, the largest positive (inward-acting) pressure of 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 [10] 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 [11] and older references [12] 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 Mean Forces and Moments

Since the mean load on a structure is independent of its dynamic response, and therefore of any time scale in the model, measured mean values may be scaled to the prototype in the same manner as pressures. Thus if the mean pressure distribution is determined as described in the preceding section, the associated force acting on any part of the structure may be determined by integration. This has been done in a manner which results in the mean force acting at each floor level in the x and y directions, and the resultant torque about the z axis.

The forces and torques obtained at each floor were used to obtain load, shear, and moment diagrams for the building for each wind direction, Table 7. The shear diagram, in kilonewtons (kN), was obtained by algebraic sum of all forces in each coordinate direction acting above the floor of interest. The load diagram, in Pascals (Pa), was obtained by dividing the forces by their contributing areas (listed in Table 7). Eccentricities were computed such that the product of the y force and x eccentricity minus the product of the x force and y eccentricity equaled the torque at that floor. The moment diagram, meganewton-meters (MN-m), 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 summing the torques acting on all floors above the floor level of interest. Load, shear, and moment diagrams are shown in Figure 14 for several wind directions.

Base moments are also available from the dynamic model test results, as described in Section 2.3. The aeroelastic model is used to measure the response of the structure directly, but since the mean response is equal to the mean load (i.e., there is no dynamic amplification), these results may also be used to determine the mean base moments. A comparison is made of all three methods in Figure 15, which shows the x, y, and z base moments plotted as a function of wind direction.

4.5 Total Base Moments

This section presents the results of both dynamic and aeroelastic model tests. As described in Section 2.3, the moment at the base of the structure is treated as the fundamental response parameter. The "total" base moment is the sum of the mean and fluctuating parts. In particular, the test results will be analyzed in terms of the maximum (or minimum) expected peak response. Section 4.6 will describe how these results may be used to estimate the distribution of equivalent static loads at each floor level.

The peak response base moment for a given wind direction α is directly measurable from the aeroelastic model test run. It can be expressed as (see Equation (C.10))

$$\hat{M}'(\alpha) = \bar{M}(\alpha) + g'(\alpha)\sigma_M(\alpha)$$

where \hat{M}' , \bar{M} , and σ_M are observed peak, mean, and fluctuating rms values, respectively, of the base moment. A prime is used on \hat{M}' to indicate that the observed value may not be a good estimate of the actual expected peak value \hat{M} , because of the limited duration of the test run. This duration is about 1 hour at prototype scale, but a reliable estimate of the expected peak in any 1-hour period (during a

storm of specified intensity such as a 100-year mean recurrence interval) would have to be accomplished by observing many such runs, tabulating the observed peak values, and calculating the mean of these. Alternatively, the above equation may be interpreted as the definition of a "peak factor" g . This factor should be independent of wind direction, and so it can be accurately estimated as the mean of the observed values g' seen at the 36 different wind directions. Following this, a more accurate estimate of the peak moment may be expressed as

$$\hat{M}(\alpha) = \bar{M}(\alpha) + g \sigma_M(\alpha)$$

As described in Section 2.3, the rms response $\sigma_M(\alpha)$ can also be calculated from the wind loading power spectral density measured on the dynamic model. Thus, this equation may be used to calculate the peak response from either the aeroelastic or dynamic model test data.

These results are given in Figure 16. The wind velocity for these results corresponds to the 100-year mean recurrence interval conditions described in Table 5. The damping ratio in the structure, ζ , is assumed to be .01 (1 percent of critical). The peak factors g are indicated as "PF." The peak values shown may be interpreted as "the expected value of the largest peak excursion occurring in a 1-hour period during the most severe wind storm which occurs, on the average, every 100 years." Peak responses from the dynamic tests were calculated for only a few wind directions, as indicated by stars in Figure 16. Generally these are in agreement with, or somewhat larger than, the aeroelastic model results. Where they are larger, the dynamic tests are believed to be conservative.

The variation of peak response moment with wind velocity for selected wind directions is given in Figure 17. Each plot shows three

curves corresponding to three different levels of damping, identified by critical damping ratios, ζ , of approximately .005, .01, and .02. Zeta (ζ) = .01 may be considered a best estimate of the damping which will actually exist in the structures; the other two values are extreme limiting cases.

These data for the Convention Hotel (Figure 18) were determined using the aeroelastic model. The plotted data points represent actual run cases, and some scatter is inherently present. The smoother curves are of the form

$$\hat{M} = aU^b$$

and have been fit through the data points by linear regression. Data for the Business-Tourist Hotel were calculated from measured load spectra on the dynamic model, as described in Appendix C. In this case the effect of velocity and damping are analytical rather than experimental. The plotted points represent conditions for which the evaluation was made, and thus show no scatter.

4.6 Force Distribution with Height

If the total response (or static equivalent) force acting at the i th floor is expressed as the sum of a mean and a fluctuating component, i.e.,

$$P_i = \bar{P}_i + P'_i$$

then, in a manner analagous to that used for the base moment in the previous section, the peak expected force may be written

$$\hat{P}_i = \bar{P}_i + g \sigma_{P_i} \tag{4.1}$$

where g is the same peak factor which was determined for the base moment. The distribution of the mean forces \bar{P}_i (which are the same as

P_i) was discussed in Section 4.4, and the results appear in Table 7. In this section a means of estimating the rms fluctuating forces σ_{P_i} will be described. Reference is made to Appendix C concerning modal analysis concepts.

Since the structure's motion is essentially in a normal mode, the fluctuating equivalent static load at floor i is proportional to the mass and the modal deflection at that floor. If the modal deflection ϕ_i is approximated by the straight line z_i , then this force may be written

$$P'_i = \alpha m_i z_i$$

These forces can be related to the base moment M , since

$$M' = \sum P'_i z_i .$$

Substituting for P'_i leads to

$$M' = \alpha \sum m_i z_i^2 = \alpha m^*$$

where m^* is the generalized mass (see Table 8). This allows the proportionality constant α to be evaluated, and the equation above for P'_i becomes

$$P'_i = \frac{M'}{m^*} m_i z_i$$

This equation shows that the individual fluctuating floor loads, P'_i , may be determined from the fluctuating base moment, M' . The rms forces can now be expressed as

$$\sigma_{P_i} = \frac{m_i z_i}{m^*} \sigma_M \quad (4.2)$$

A simpler approximation may be obtained by assuming that the mode shape ϕ_i approximates the static deflected shape. In this case the

above analysis applies to the total response, not just the fluctuating part, so that P_i and M can be substituted for P'_i and M' . The expected peak forces then become

$$\hat{P}_i \cong \frac{m_i z_i}{m^*} \hat{M} \quad (4.3)$$

The expected peak base moment \hat{M} may be read directly from Figures 16 and 17 for a variety of wind directions, wind velocities, and damping values.

This approximation may not be good for wind directions where the mean response is a large fraction of the peak response, depending on how much the static deflected shape deviates from a straight line. Note, however, that in many cases the largest response occurs in the cross-wind direction, where the mean response is very small; in these cases the approximation is excellent.

4.7 Displacement and Acceleration

Displacements of the tower may be treated in a manner analogous to the analysis of forces in the preceding section. Thus the peak expected lateral deflection at floor i is

$$\hat{\Delta}_i = \bar{\Delta}_i + g\sigma_{\Delta} \quad (4.4)$$

where $\bar{\Delta}$ is the mean static deflection, σ_{Δ} is the fluctuating rms deflection, and g is the peak factor introduced above. The mean displacements can be obtained from a static analysis of the structural frame under the applied loads P_i (see Section 4.4). The dynamic displacements are obtained from Equation (C.2),

$$\Delta'_i = \theta' \phi_i$$

where θ' is the fluctuating rotation of the approximate straight-line mode shape of the structure (thus θ' approximates the generalized

coordinate ξ). By Appendix C,

$$\theta' = \frac{M'}{k_\theta}$$

Combining these equations and taking the rms value results in

$$g\sigma_{\Delta_i} = \frac{1}{k_\theta} g\sigma_M z_i \quad (4.5)$$

where z_i is taken as an approximation to the actual shape ϕ_i . The rotational stiffness k_θ is given in Table 8, and the value $g\sigma_M$ may be read from Figure 16 or 17.

In the preceding section regarding force distributions, a simplifying assumption was made that the static deflected shape can be approximated by a straight line. This lead to the simple equation (4.3) for the peak expected force. Parallel treatment of the displacements leads to

$$\hat{\Delta}_i = \frac{z_i}{k_\theta} \hat{M} \quad (4.6)$$

and
$$\theta = \frac{M}{k_\theta}$$

The value \hat{M} may be read directly from Figure 16 or 17. Note again that the accuracy of this approximation depends on how well the deflected shape can be fit by a straight line, and on the relative contributions of mean and fluctuating response to the total response. The equation is quite accurate for the cross-wind response, for example, where the mean response is zero.

Note also that the rotation θ is essentially the so-called "drift ratio." The expected peak value of this is

$$\hat{\theta} = \frac{\hat{M}}{k_\theta}$$

Using the proportionality constant $1/k_{\theta}$ from Table 8, an accessory scale for θ has been drawn directly on Figure 16.

Due to the high degree of resonance in the dynamic response of the towers, the displacement can be written in the general functional form

$$x(t) = X \sin \omega_0 t$$

where $\omega_0 = 2\pi f_0$ is the natural circular frequency. Differentiating this equation twice yields the following expression for acceleration:

$$\ddot{x}(t) = -\omega_0^2 \sin \omega_0 t = -\omega_0^2 x(t)$$

The root-mean-square acceleration may therefore be calculated as

$$\sigma_{\ddot{x}} = \omega_0^2 \sigma_x$$

In a similar manner, $\sigma_{\ddot{y}}$ and $\sigma_{\ddot{\theta}}$ can be calculated. The rotational acceleration $\ddot{\theta}$ is converted to a tangential acceleration at a representative point located at the corner of the top floor, at distance r from the z -axis:

$$\sigma_{r\ddot{\theta}} = r\sigma_{\ddot{\theta}}$$

The values $\sigma_{\ddot{x}}$, $\sigma_{\ddot{y}}$, and $\sigma_{r\ddot{\theta}}$ can then be combined using Equation (B.3) to obtain a characteristic total rms acceleration of the top floor.

Using this technique, the data of Figure 17 have been converted to rms accelerations. These are presented in Figure 18, along with some criteria describing human response to motion in tall buildings. This issue is discussed further in Section 5.5.

5. DISCUSSION

5.1 Flow Visualization

Flow patterns identified with smoke showed that the largest local pressures would occur on or adjacent to the narrow ends of each of the

towers, particularly near the top or just above the intersection of the towers with their base structure. Flow separation phenomena at the narrow ends was observed to have high curvature in the separated streamlines which is an indication of possible high pressures. Wind flow down the broad windward face of a tower often was observed to concentrate at the intersection of the tower with the base to produce a high velocity separated flow over the narrow end of the tower just above the intersection of tower and base. This would be expected to produce somewhat higher peak pressures in this zone.

Wind speeds in pedestrian areas appeared to be relatively low except for locations on the ground or roof of the base structure which were close to one of the two towers. At those locations, the same phenomena which concentrated high wind speeds near the tower intersection with the base structure to produce elevated pressures also acted to increase pedestrian winds. High pedestrian wind speeds near the tower base were not observed for all wind directions so that the average wind conditions near the tower base would be significantly lower than those for the worst wind directions.

5.2 Pedestrian Winds

Figure 7 shows the 52 locations selected for investigation of pedestrian wind comfort. Location 1 was selected as a reference location away from the buildings where influence of the structures would not be great. Locations shown with open symbols were located under some portion of the structure. The data were grouped into two parts: one data set near the Business Tourist Hotel complex to the south and one data set near the Convention Hotel complex to the north.

Table 2 and Figure 7 show that the largest mean velocities were measured at locations 4 and 5 near the Business Tourist Hotel and at locations 31 and 45 near the Convention Hotel. All four locations had mean velocities ranging up to 80-82 percent of U_{∞} , the mean velocity at the edge of the atmospheric boundary layer at 380 m elevation. These values are large for a city environment but are typical of the largest velocities near the base of tall isolated buildings. For comparison, reference location 1 had a maximum velocity of 57 percent of U_{∞} ; an open-country environment might expect 40 to 50 percent of U_{∞} .

The largest values of fluctuating velocity, U_{rms} , were in the range of 20 to 25 percent of U_{∞} measured at a variety of locations. These values are typical of ones expected near tall buildings. The largest peak gusts, represented by the mean plus three rms as discussed in Section 4.2, were measured at locations 5 and 23 near the Business Tourist Hotel complex with values of 115 to 120 percent of U_{∞} . The peak gust maxima near the Business Tourist Hotel complex are typical of those found near tall isolated buildings. The largest values near the Convention Hotel complex are somewhat larger than typically found at ground level near such a complex but not uncommon on elevated rooftops where locations 41, 43 and 45 are positioned. For comparison, reference location 1 had a maximum peak gust of 90 percent of U_{∞} ; an open-country location might expect peak gusts of 80 to 90 percent of U_{∞} .

Velocity data of Table 2 integrated with local wind data listed in Table 3 are shown in Figure 13. Based on the data of this figure, the windiest pedestrian locations should be numbers 4, 5 and 31. These locations exceed the comfort criteria for walking about 8 to 10 percent of the time for mean winds but do not exceed the unacceptable criteria.

The position of location 5, which was on an elevated balcony under a sloping overhang, may have contributed to its windier-than-average characteristics. Many locations had wind speeds which did not exceed the acceptability criteria for long-exposure activities.

The results of the pedestrian wind analysis indicated that possible corrections for pedestrian winds may not need to be initiated prior to building construction. It is likely that no corrections will be required unless some of the windier locations are expected to have high-frequency use of a long-duration nature (for example, if location 5 were to be the site of an outdoor restaurant, then corrective action will probably be required--if location 5 were to be used for strolling activity, then no corrective action would be anticipated.) Most of the measured locations would not be expected to cause pedestrian discomfort due to high winds.

5.3 Pressures

Table 6 shows the largest peak pressure coefficients and corresponding loads measured on each building complex for each pressure tap location. Data identified as Configuration A in Table 6 and Appendix A represent data obtained at all pressure tap locations for 36 wind directions. Configuration B represents data obtained at selected taps at 2-degree azimuthal increments near azimuths where large pressure peaks were observed in Configuration A to ensure that the largest peaks were obtained.

The largest peak cladding pressures on the Business Tourist Hotel complex for a 100-year recurrence wind were -2750 and -2560 Pa measured at tap locations 1301 and 1156 respectively. These taps were both located on the narrow ends of the building, one near the top of the

tower and one near the height of the base structure. These locations are consistent with indications of higher pressure areas obtained from flow visualization results. The largest peak cladding pressures on the Convention Hotel complex were -2300 and -2160 Pa measured at tap locations 2236 and 2435 respectively. These locations were also on the narrow ends of the tower consistent with flow visualization results.

Contours of peak cladding pressure are shown in Figure 13. This figure shows that most of the surface area of the two towers had peak negative pressures of -1000 to -1500 Pa. Peak positive (inward) pressures on the towers were typically less than 900 Pa. For the low rise structures, peak negative pressures were typically -500 to -1000 Pa while peak positive pressures were less than 800 Pa for the Business Tourist Hotel low rise and less than 600 Pa for the Convention Hotel low rise. These pressures are due to external wind forces. Internal pressures, particularly in areas with operable windows or doors which interrupt the curtain wall, may be of sufficient magnitude to be considered in designing the curtain wall.

5.4 Forces and Moments

Mean base moments have been measured by three separate methods: spatial integration of pressure measurements, dynamic balance models, and aeroelastic models. A comparison of the three methods was shown in Figure 15, and the results were in good agreement.

Fluctuating base moments were obtained using both dynamic and aeroelastic models. Dynamic tests are faster and easier to perform than aeroelastic models, and do not require exact values of mass, stiffness, and natural frequency of the prototype structures. These tests were therefore performed before the aeroelastic tests, to provide load

information early in the design stage of the project. Root-mean-square base moments were computed from the resulting data for only a few wind directions. Peak base moments were then computed according to

$$\hat{M} = \bar{M} + g\sigma_M$$

where g was a theoretical peak factor (Equation (C.11)). The later aeroelastic tests were more extensive and somewhat more accurate, especially in the case of the Business-Tourist Hotel, in which significant changes in prototype stiffness and natural frequency were incorporated. Also, a more accurate evaluation of the peak factor g was obtained from the aeroelastic tests. Both the dynamic and aeroelastic test results were presented in Figure 16. The dynamic results have been updated to reflect the more accurate peak factor, and also the revised natural frequencies of the Business-Tourist Hotel. These results are generally in good agreement; where differences exist, the aeroelastic results are more accurate. In these cases the dynamic results are usually greater and may be taken as conservative estimates of the loads.

These data correspond to a wind velocity of 33.2 m/s (mean recurrence interval of 100 years) and a damping ratio of .01. This represents suitable design conditions.

Some general observations regarding the directional dependency of the building's dynamic response are of interest. It is a common procedure in building codes to design a tall frame based on an equivalent static load, which is computed as the actual mean, or static, load multiplied by a gust response factor. The mean load is by definition in a direction parallel to the wind, and the gust response factor is identified as the ratio of peak to mean response. It is apparent from Figure 16 that the greatest mean response is in the along-wind

direction; the gust factor approach would imply that this is also true of the peak response. In reality, the along-wind response may not represent governing conditions; in fact, the cross-wind response of a tall building is often greater than the along-wind response. This is indeed the case for motion about the x-axis of the Convention Hotel, as seen in Figure 16d. The maximum response occurs at wind directions 0 or 180 degrees, although the mean response for these directions is near zero. The along-wind response is very large at 90 and 270 degrees, as expected, but this is a very stable orientation for this cross-sectional shape so that very little dynamic response occurs. As a result, the peak response at these directions are the lowest of all directions.

The y-component response of the Business-Tourist Hotel, Figure 16b, at wind directions 0 and 10 degrees is of interest. This component is in the along-wind direction here, and the mean response would ordinarily be large. The Convention Hotel is directly upwind, however, and provides a considerable amount of shielding so that the mean response is very low from 0 through 20 degrees. On the other hand, the wake behind the Convention Hotel is very turbulent and dynamically excites the Business-Tourist Hotel about both the x and y axes. In fact, the peak response at this direction is nearly as large as at any direction.

The Business-Tourist Hotel is upwind of the Convention Hotel at wind directions 180 to 190 degrees. Shielding of the mean response (y-component, Figure 16e) is apparent but slight, and the extra dynamic excitation involved apparently just compensates for this.

The base moment results apply in an approximate sense to individual floor loads and displacements also. The mean (or static) floor loads are properly obtained by integrating the measured pressures; these

results were given in Table 7. RMS fluctuating floor loads may be obtained directly from the rms fluctuating base moments in accordance with Equation (4.2); peak equivalent static floor loads by combining the mean values with the rms values multiplied by a peak factor, as in Equation (4.1). A simpler approximate method is given by Equation (4.3), which is applicable if the mean deflected shape is taken as a straight line, or if the mean loads are small compared to the rms loads.

Building displacements should be treated in a similar manner. Thus the mean deflections can be computed using a static analysis and the mean loads of Table 7; the rms deflections are obtained from the rms base moments using Equations (4.4) and (4.5). Alternatively, of course, the peak floor displacements may be computed using a static analysis with the peak equivalent static floor loads. Again, an approximate method of computing the peak displacements using the dynamic moment data only is given by Equation (4.6). Using this method, the building rotation, or drift ratio, is proportional to the base moment, and a scale for this parameter is included in Figure 16.

5.5 Accelerations

It is generally agreed that acceleration provides the best measure of possible human discomfort due to motion in tall buildings; however, there is very little data available by which this issue can be judged quantitatively. The best guidelines currently available are due to two research studies. Reed et al. [15] measured the acceleration response of two buildings in two separate storms, and evaluated the corresponding human response through questionnaires and interviews with the building's occupants. Conclusions were drawn as to how often the measured levels

of acceleration could occur with a given level of objection. In the second study, Chen and Robertson [16] simulated an office environment with a cubicle which could be moved horizontally. The intent of this program was to determine the minimum level of acceleration which could be sensed by humans. This "threshold of perception" was found to vary with many factors, including inherent variation from person to person, whether the person had been previously conditioned to the type of motion, and the frequency of motion. A procedure was presented by which any desired threshold level--in terms of percentage of an average cross section of people representing--could be estimated, as a function of frequency.

Figure 18 shows how these research results compare to the predicted acceleration in the Rahardja towers. These graphs show various levels of total rms acceleration on the top floor plotted against the number of times per year that such a level is expected to occur, for four different wind directions. Three plots are given in each figure, corresponding to three different values of structural damping.

The horizontal dashed lines in the lower right-hand corner represent acceleration levels, computed for the average natural frequency of the building, representing the lower limit of perception by 2 percent and 10 percent of the average population. The figures indicate that, even at the lowest value of damping, 2 percent of the top floor occupants will be able to perceive the motion no more than one or two times per year in the Convention Hotel, and five times per year in the Business-Tourist Hotel. At no time should as many as 10 percent of the top floor occupants be able to perceive motion in either tower.

The solid data points so indicated represent suggested design criteria based on reference [15]. They represent top-floor acceleration levels at which 2 or 10 percent of the occupants in the top one-third of the building would find "objectionable" (as opposed to perceivable) if they occurred at the frequency indicated. According to this criteria, the motion may be objectionable to about 2 to 5 percent of the occupants in the top one-third of the Convention Hotel, if the damping ratio is as low as 0.5 percent. In the Business-Tourist Hotel the number of objecting people should be higher, but still less than 10 percent.

At very low frequencies of occurrence (i.e., high acceleration levels) no data are available by which to judge the human response issue. It is generally agreed, however, that performance-type criteria such as occupant comfort should be based on events which occur relatively frequently, say at least once per year.

In conclusion, therefore, the building motions are expected to be generally acceptable, even at a very low value of damping. At a more probable value of damping, the motion levels should be acceptable to more than 98 percent of the buildings' occupants. The motion should be perceivable, if at all, no more than twice per year for 2 percent of the top floor occupants of the Business-Tourist Hotel. Finally, it is cautioned that these conclusions are based on a very limited amount of research and field data, which nevertheless represent the best criteria available. It is expected that no problems should be experienced due to wind-induced motion.

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FIGURES

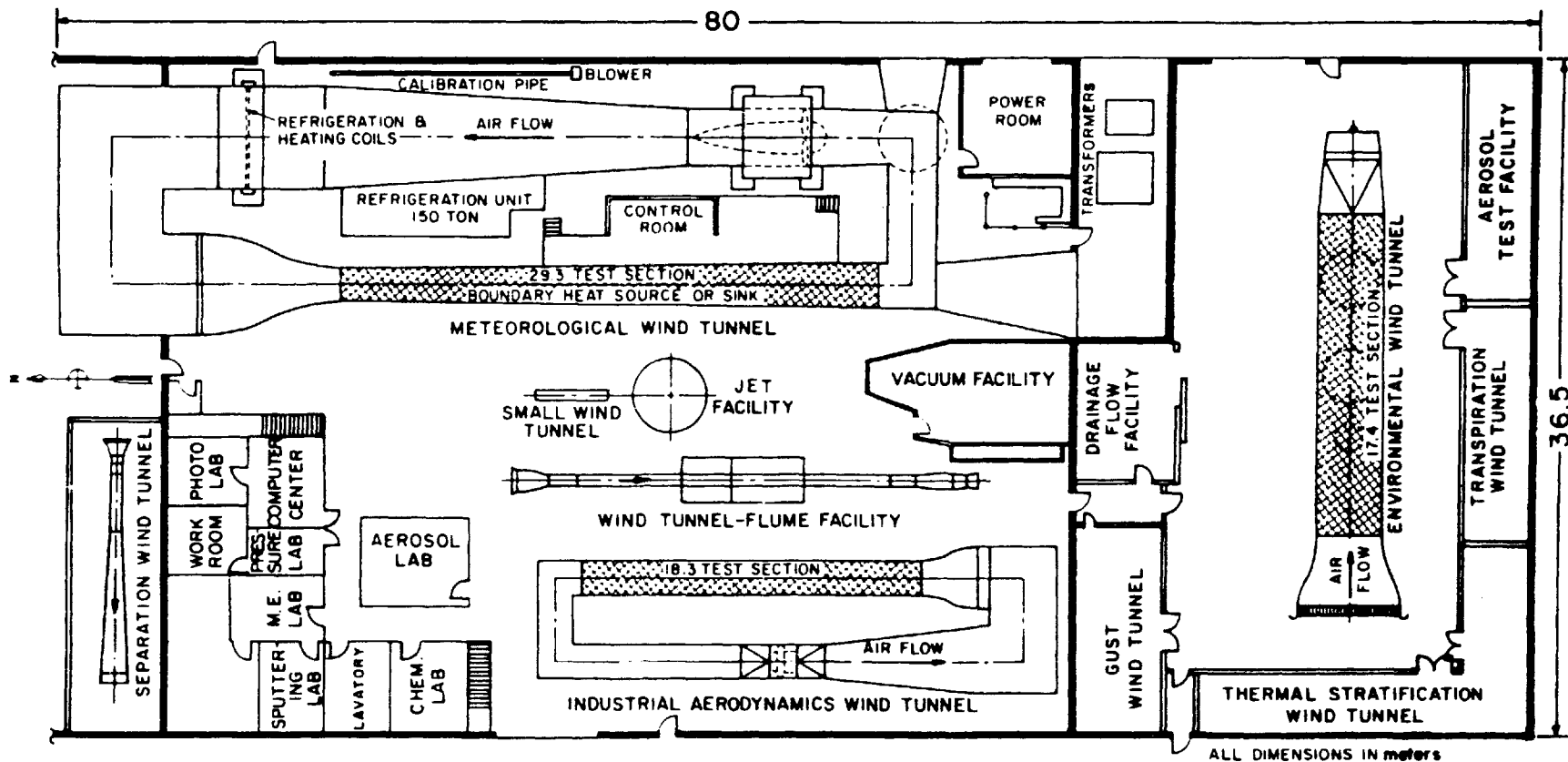
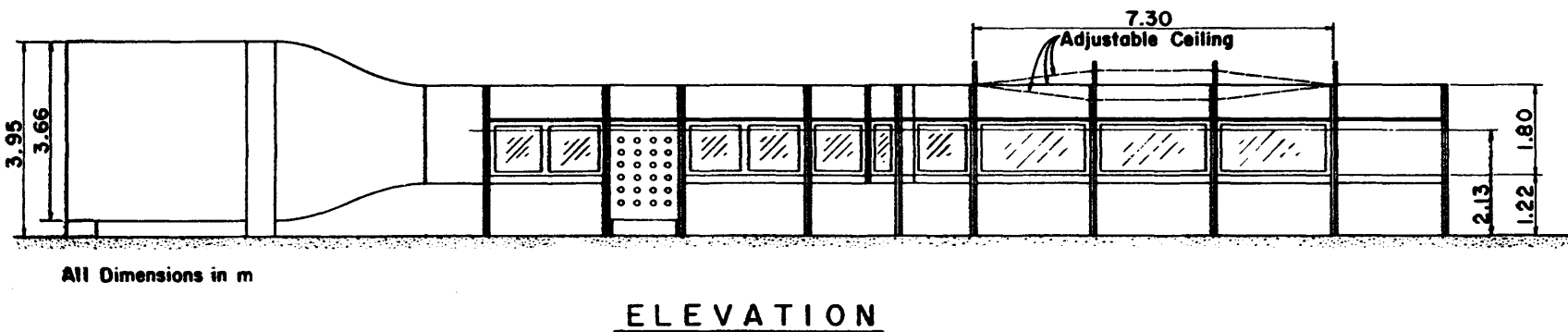
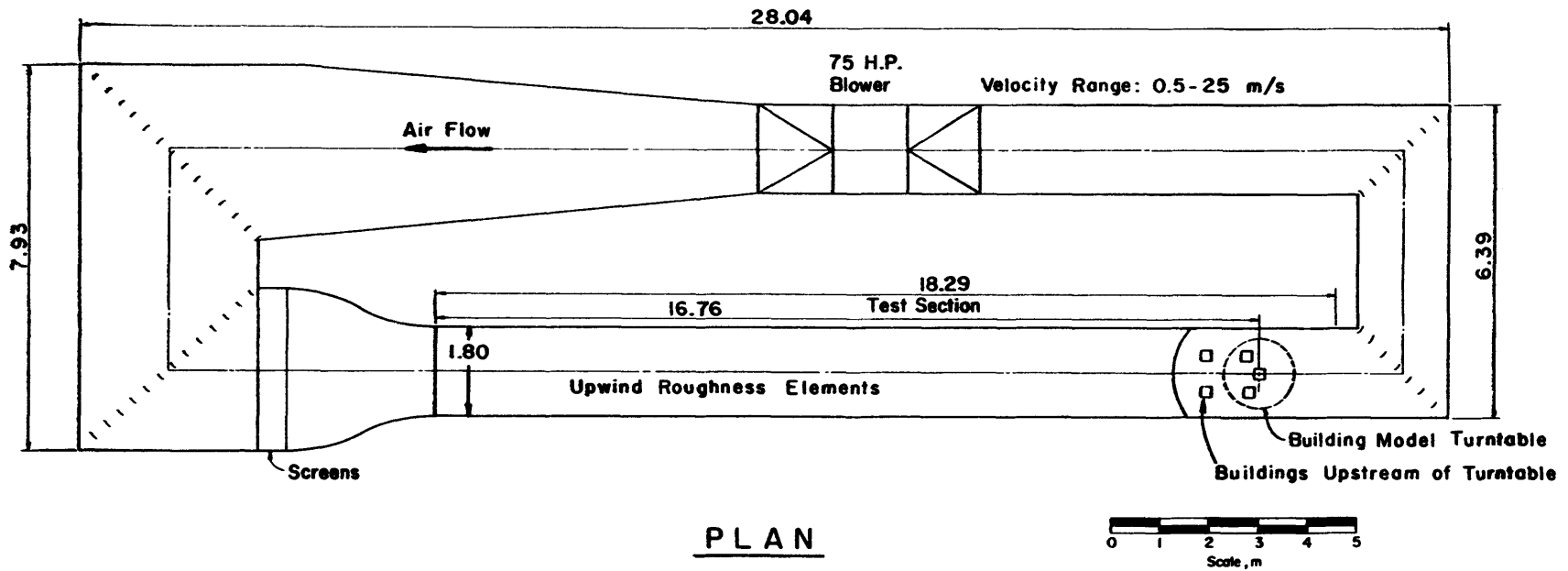


Figure 1. FLUID DYNAMICS AND DIFFUSION LABORATORY
 COLORADO STATE UNIVERSITY



INDUSTRIAL AERODYNAMICS WIND TUNNEL

Figure 2. Wind-Tunnel Configuration

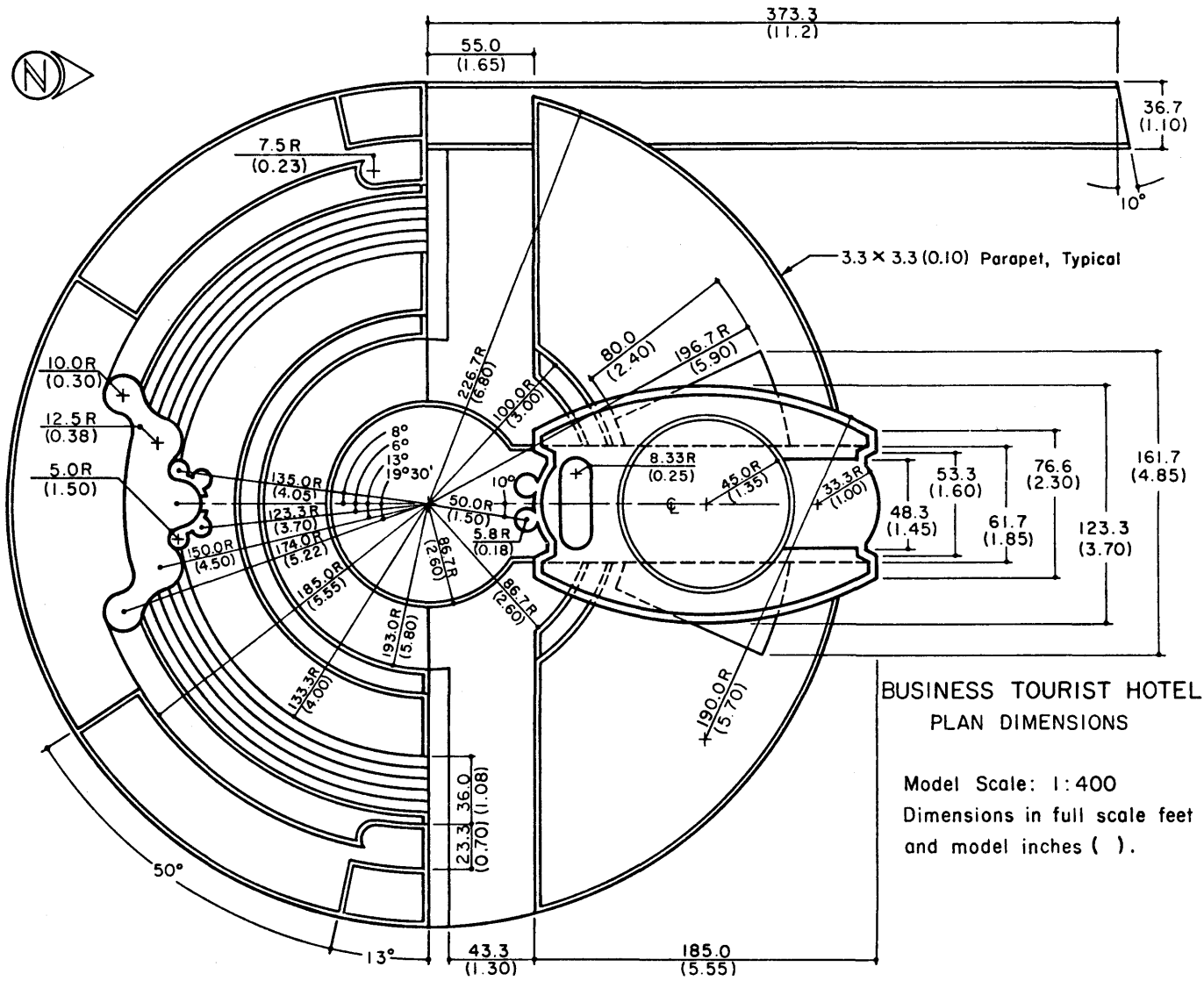


Figure 3a. Pressure Tap Locations

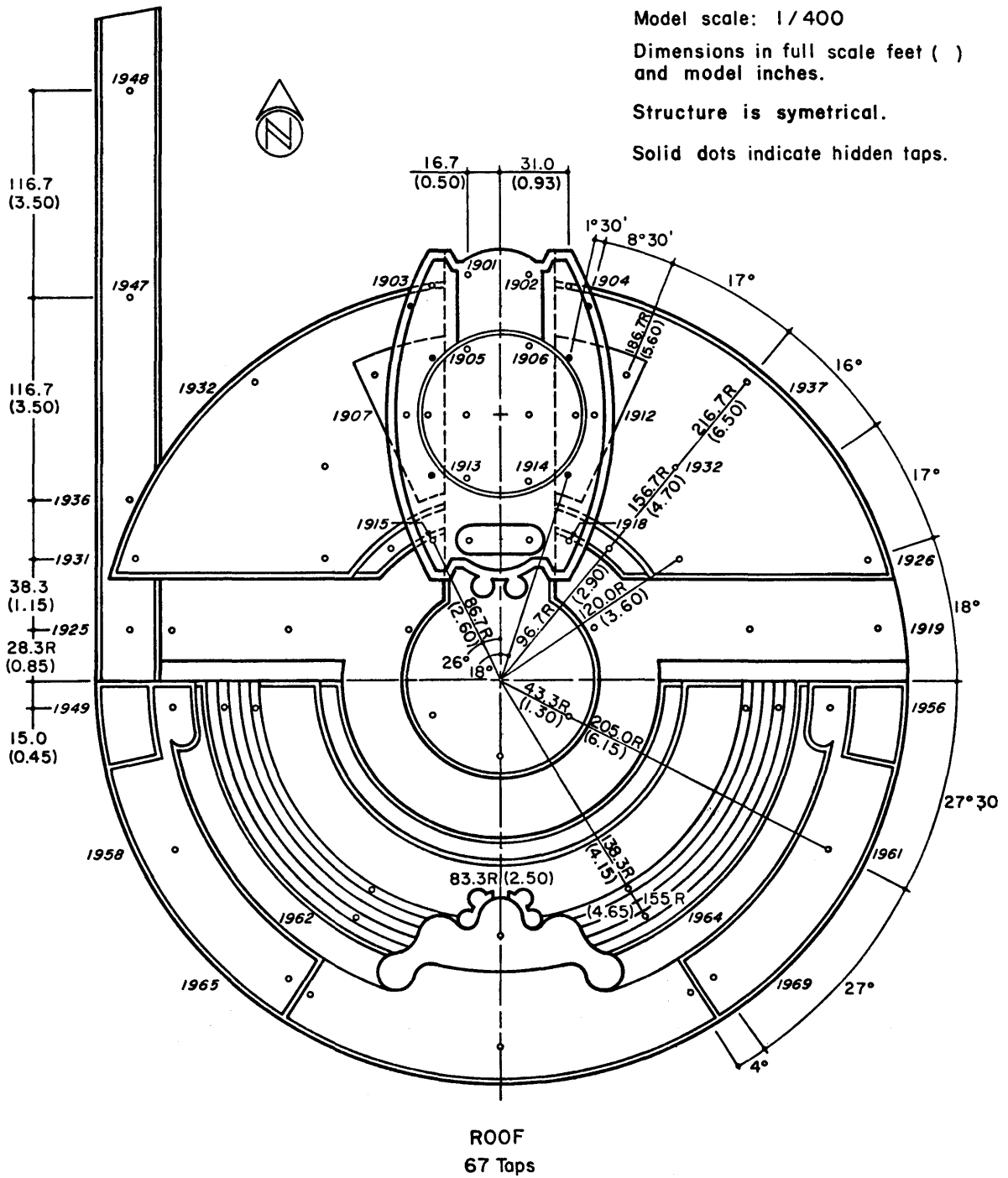
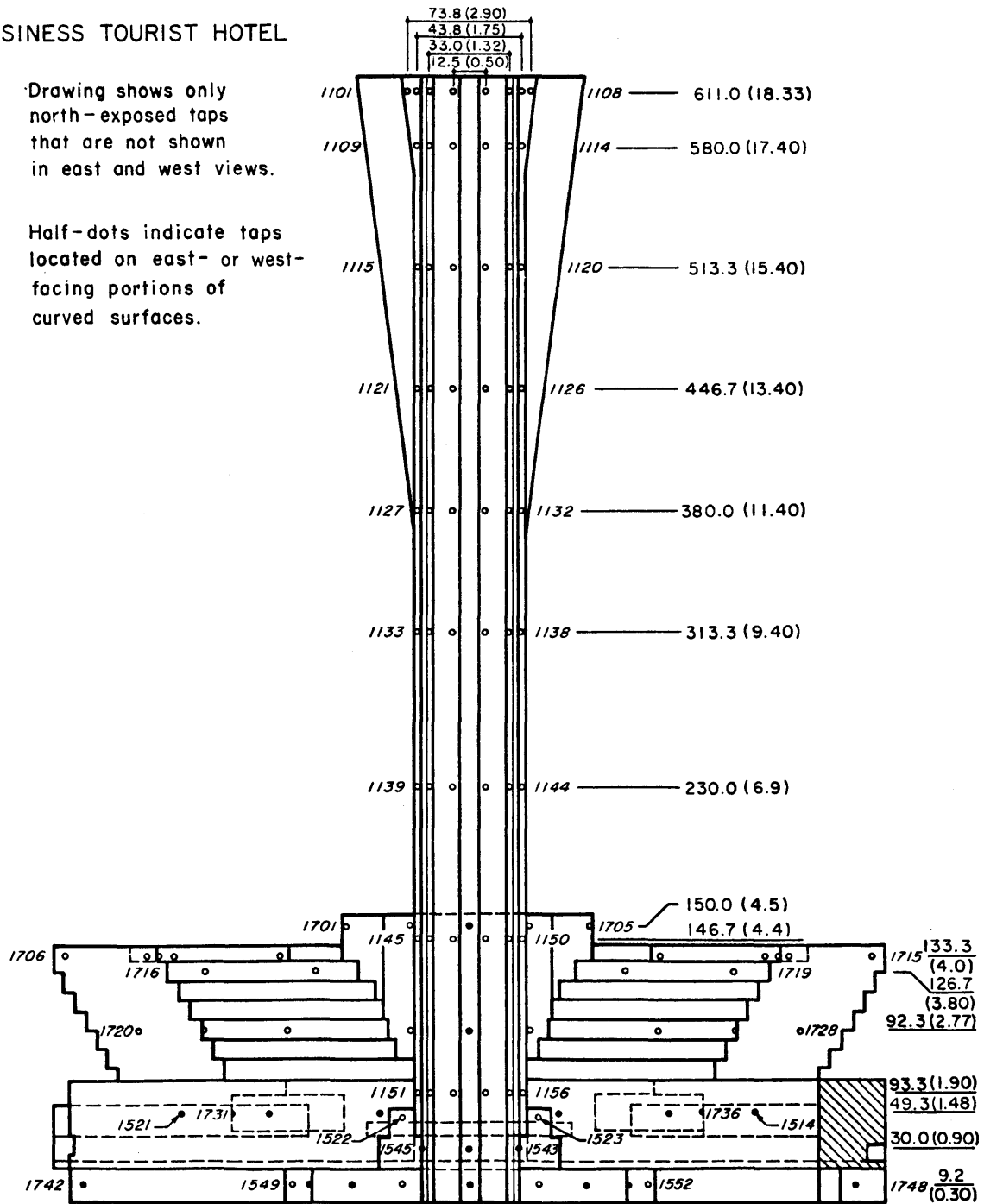


Figure 3b. Pressure Tap Locations

BUSINESS TOURIST HOTEL

Drawing shows only north-exposed taps that are not shown in east and west views.

Half-dots indicate taps located on east- or west-facing portions of curved surfaces.



108 Taps
NORTH

Figure 3c. Pressure Tap Locations

BUSINESS TOURIST HOTEL

Tap heights are same as corresponding rows in west elevation.

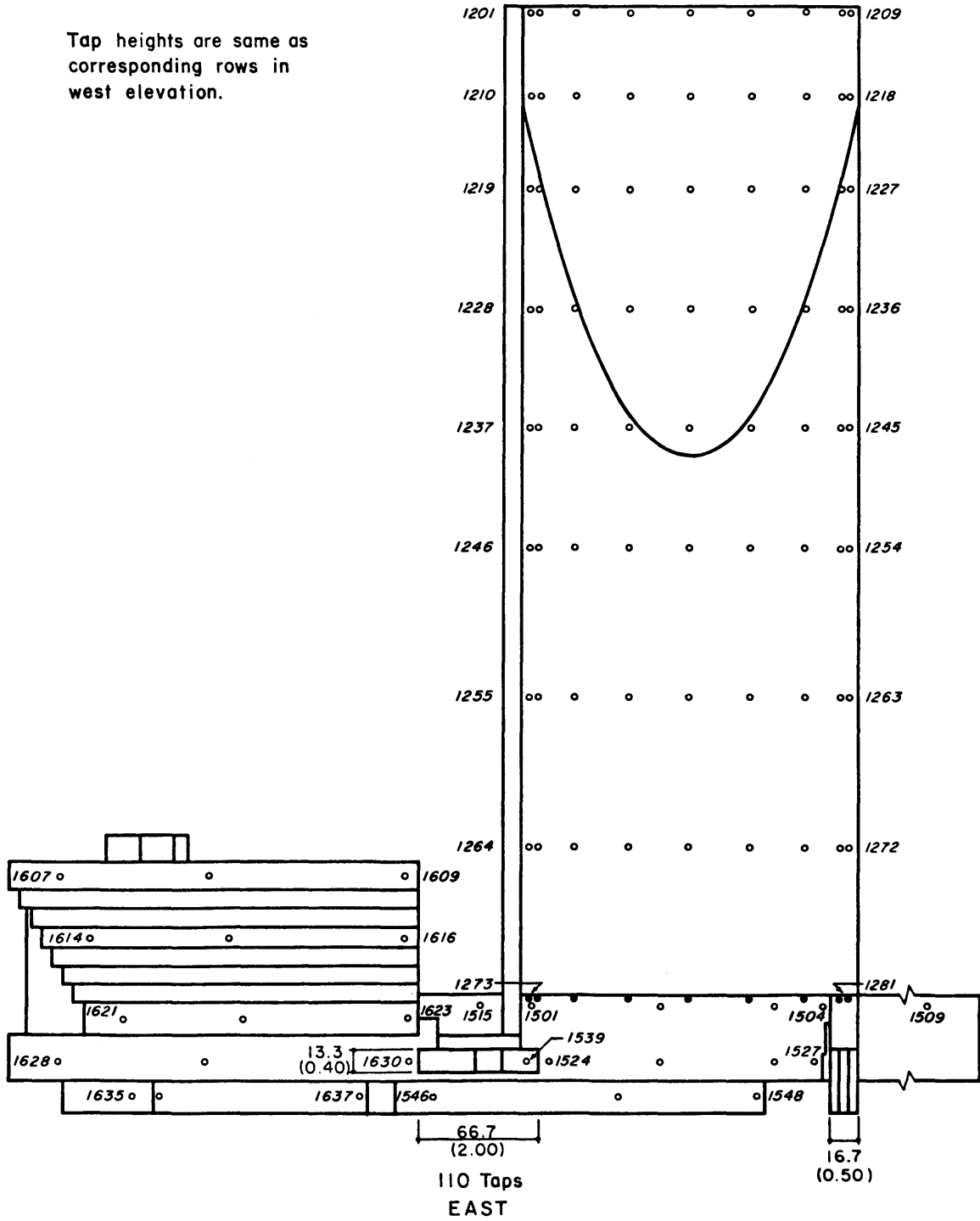
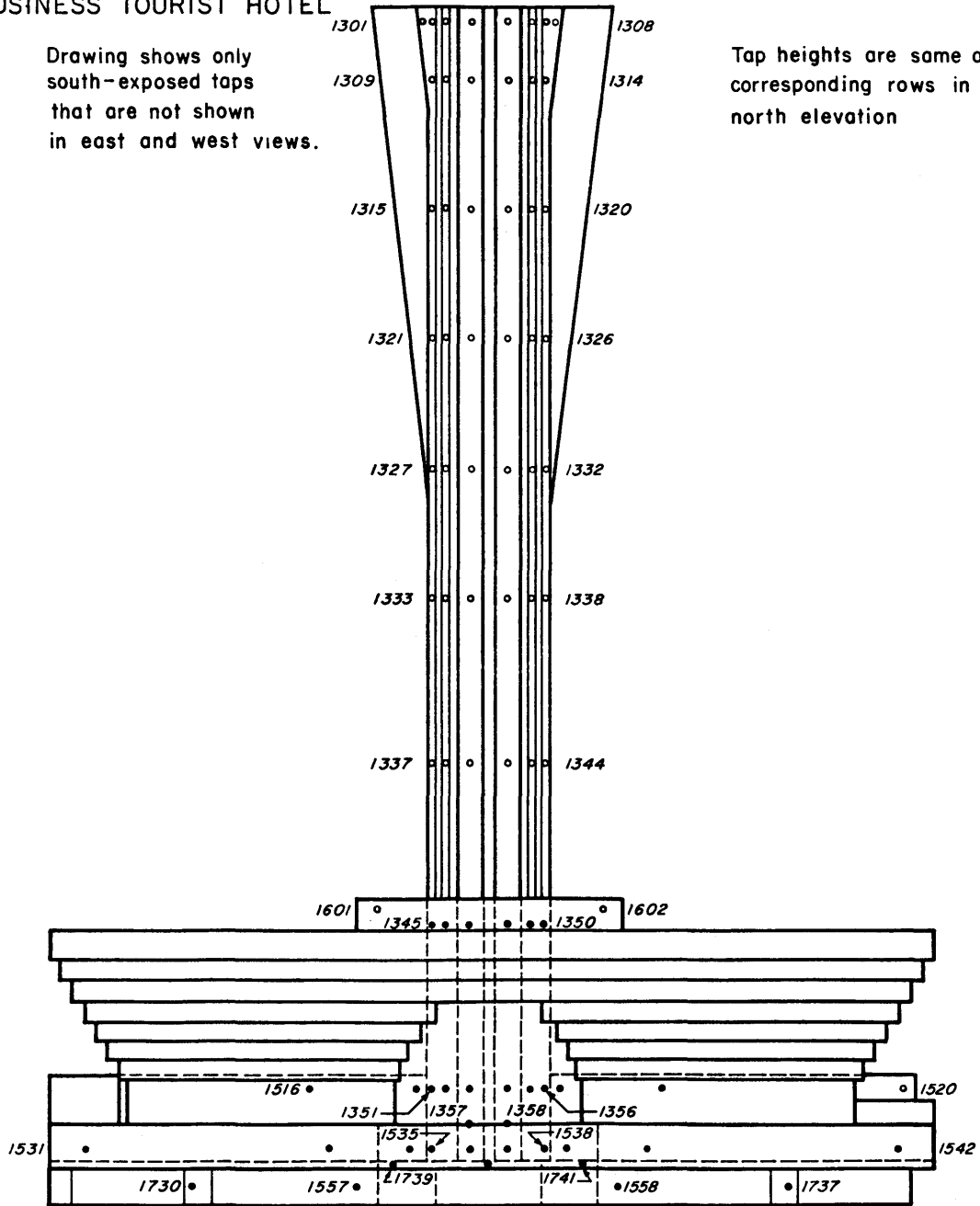


Figure 3d. Pressure Tap Locations

BUSINESS TOURIST HOTEL

Drawing shows only south-exposed taps that are not shown in east and west views.

Tap heights are same as corresponding rows in north elevation



77 Taps
SOUTH

Figure 3e. Pressure Tap Locations

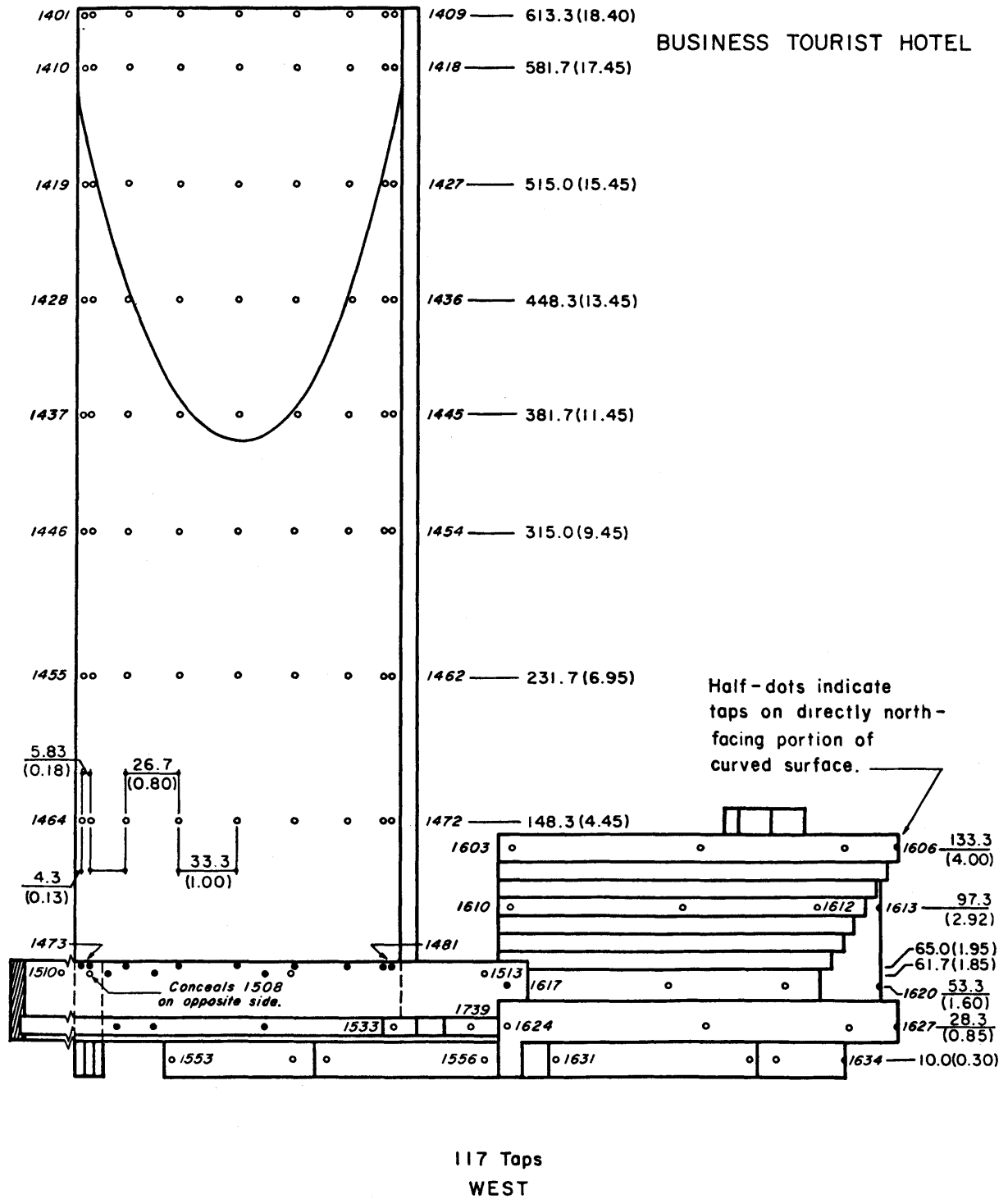


Figure 3f. Pressure Tap Locations

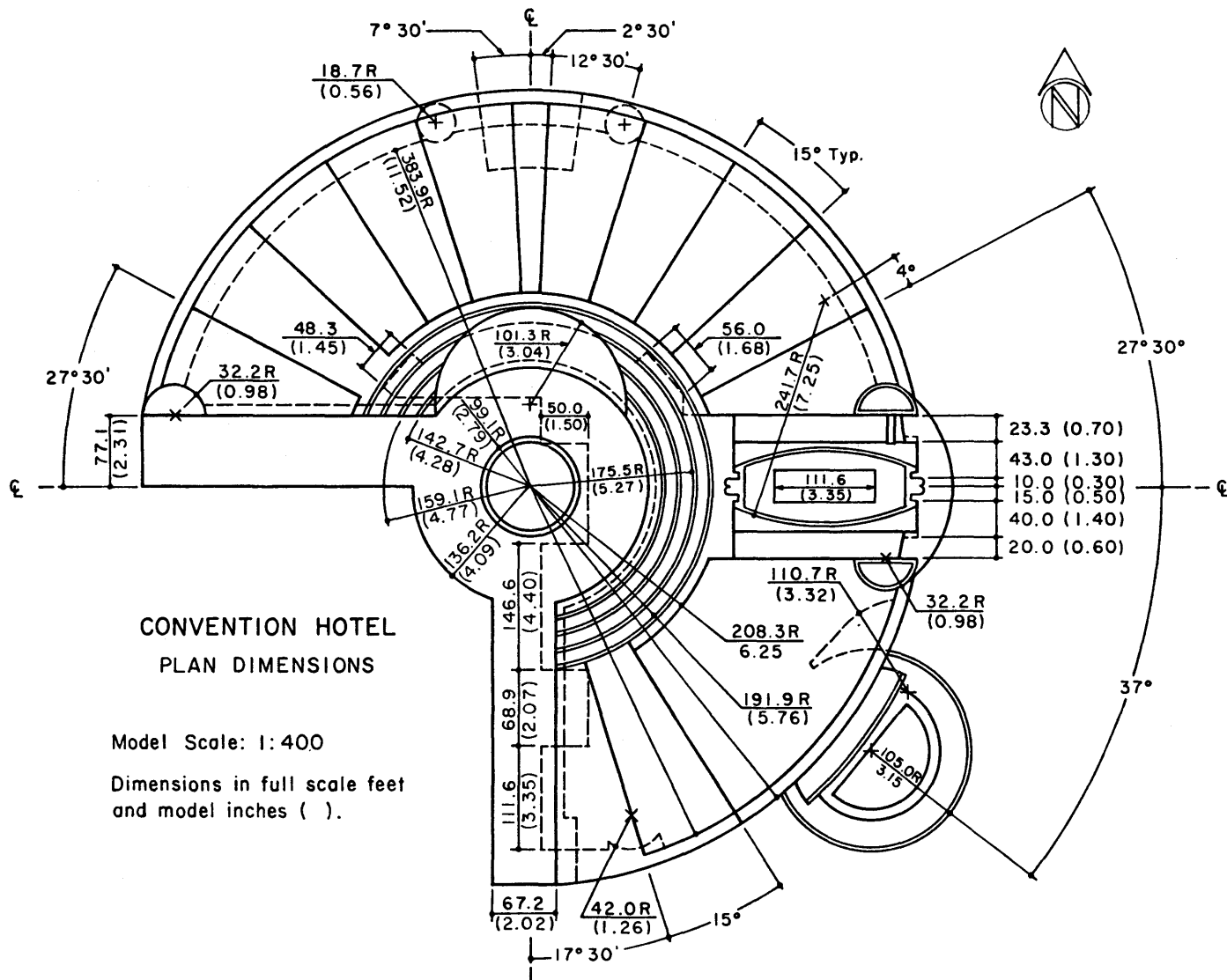


Figure 3g. Pressure Tap Locations

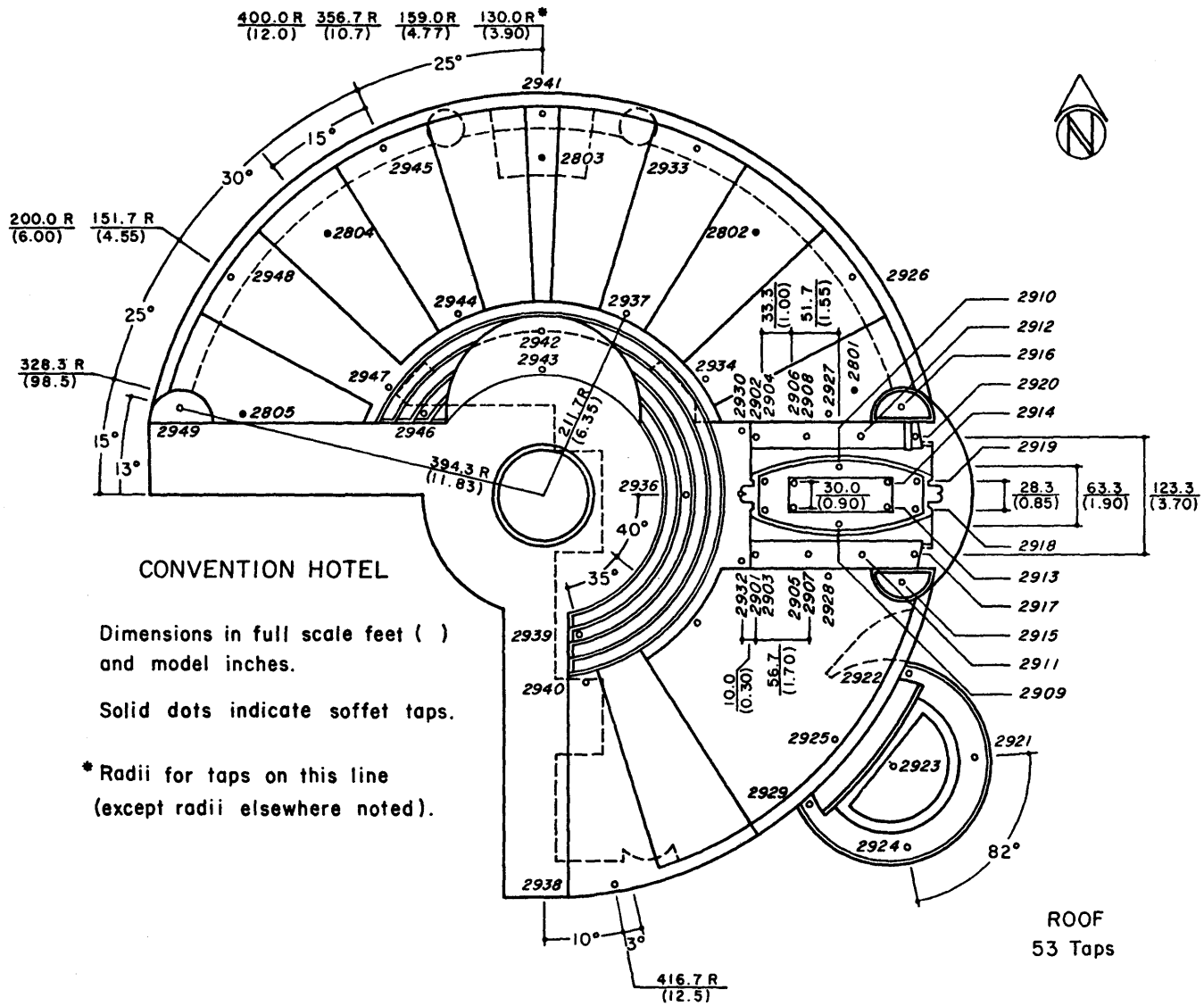


Figure 3h. Pressure Tap Locations

CONVENTION HOTEL

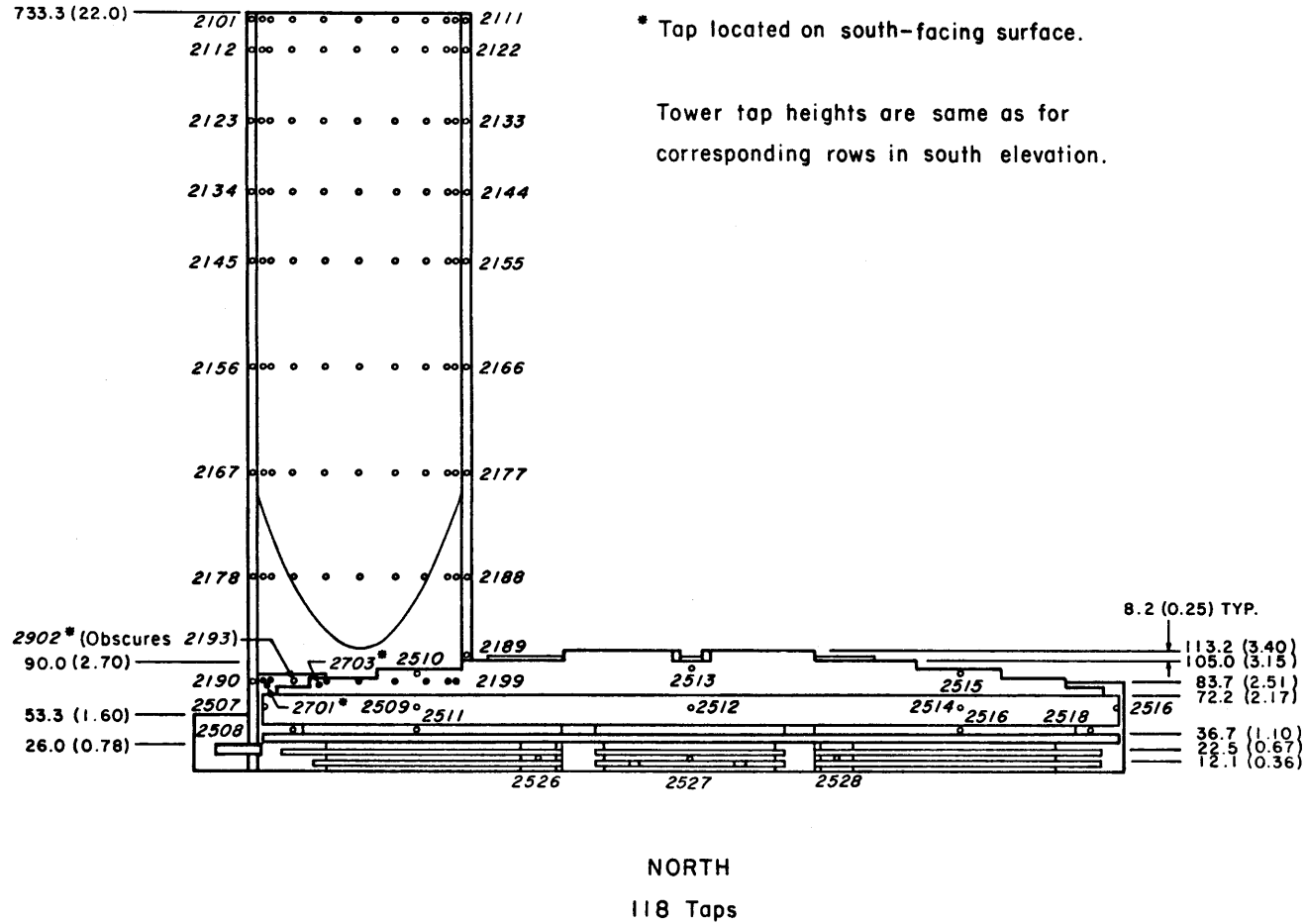


Figure 3i. Pressure Tap Locations

CONVENTION HOTEL

Shown are east-facing taps
not shown in other views.

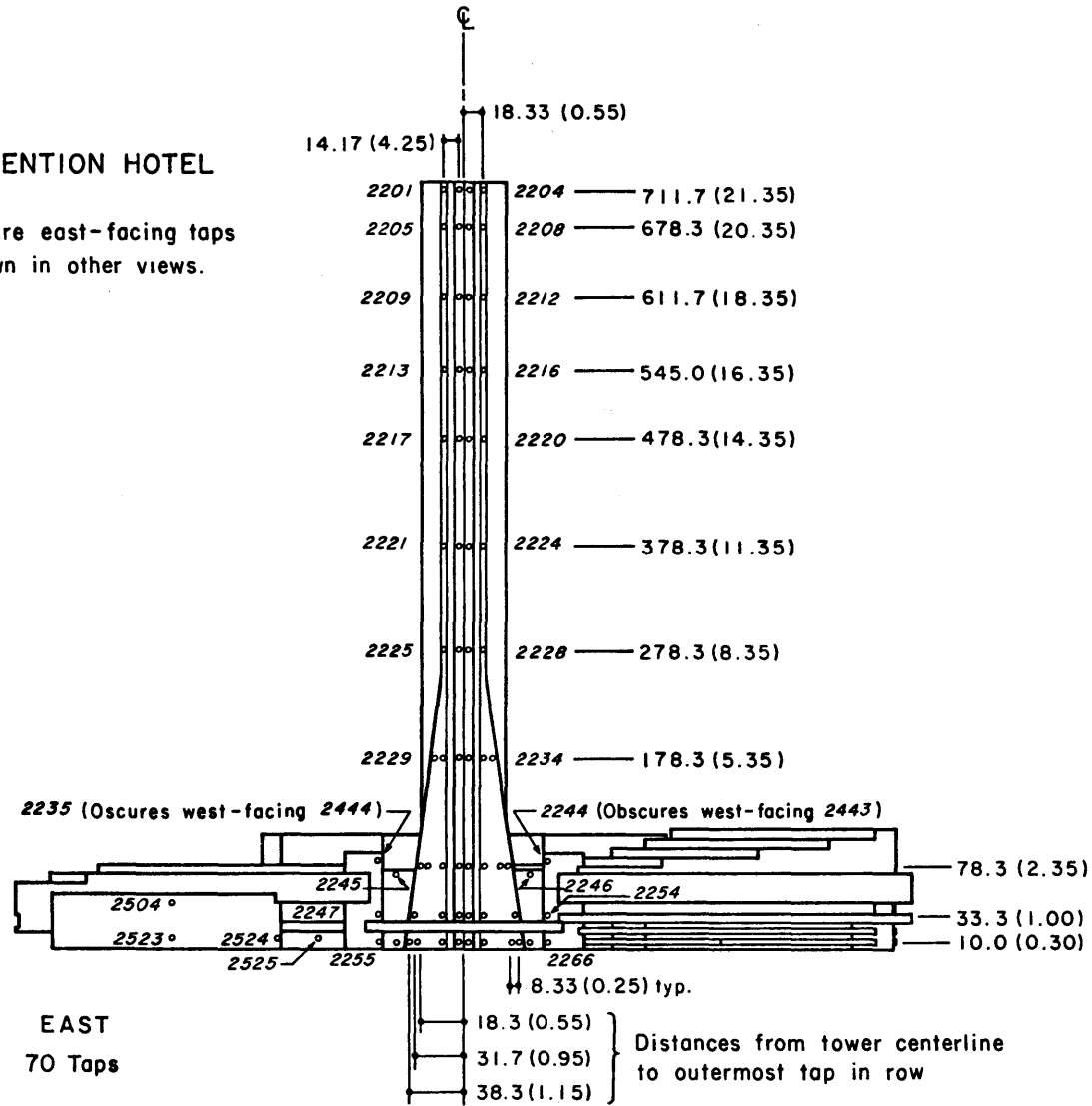
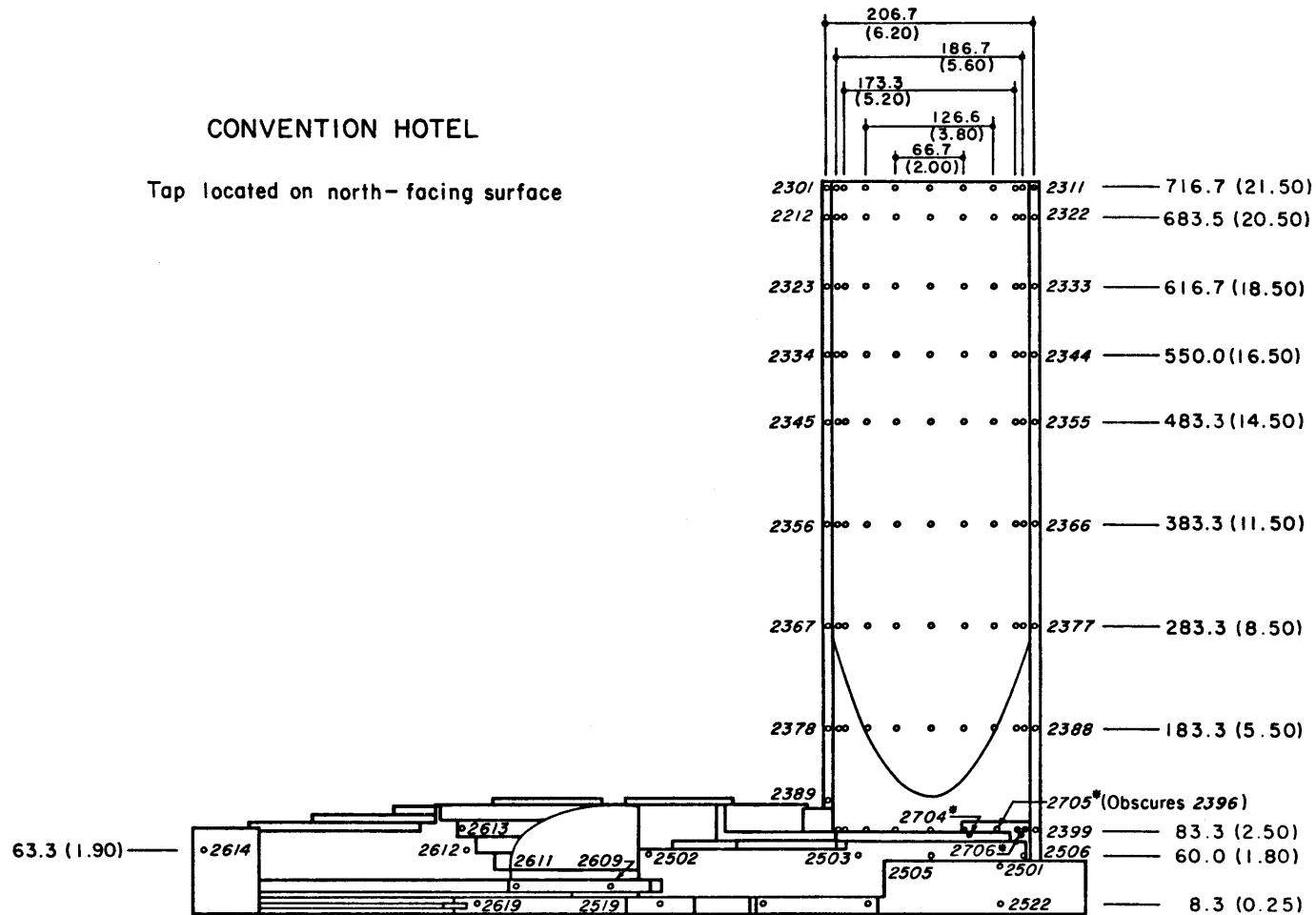


Figure 3j. Pressure Tap Locations

CONVENTION HOTEL

Tap located on north-facing surface



SOUTH
117 TAPS

Figure 3k. Pressure Tap Locations

Tap heights are same as for corresponding rows in east view of tower.

CONVENTION HOTEL

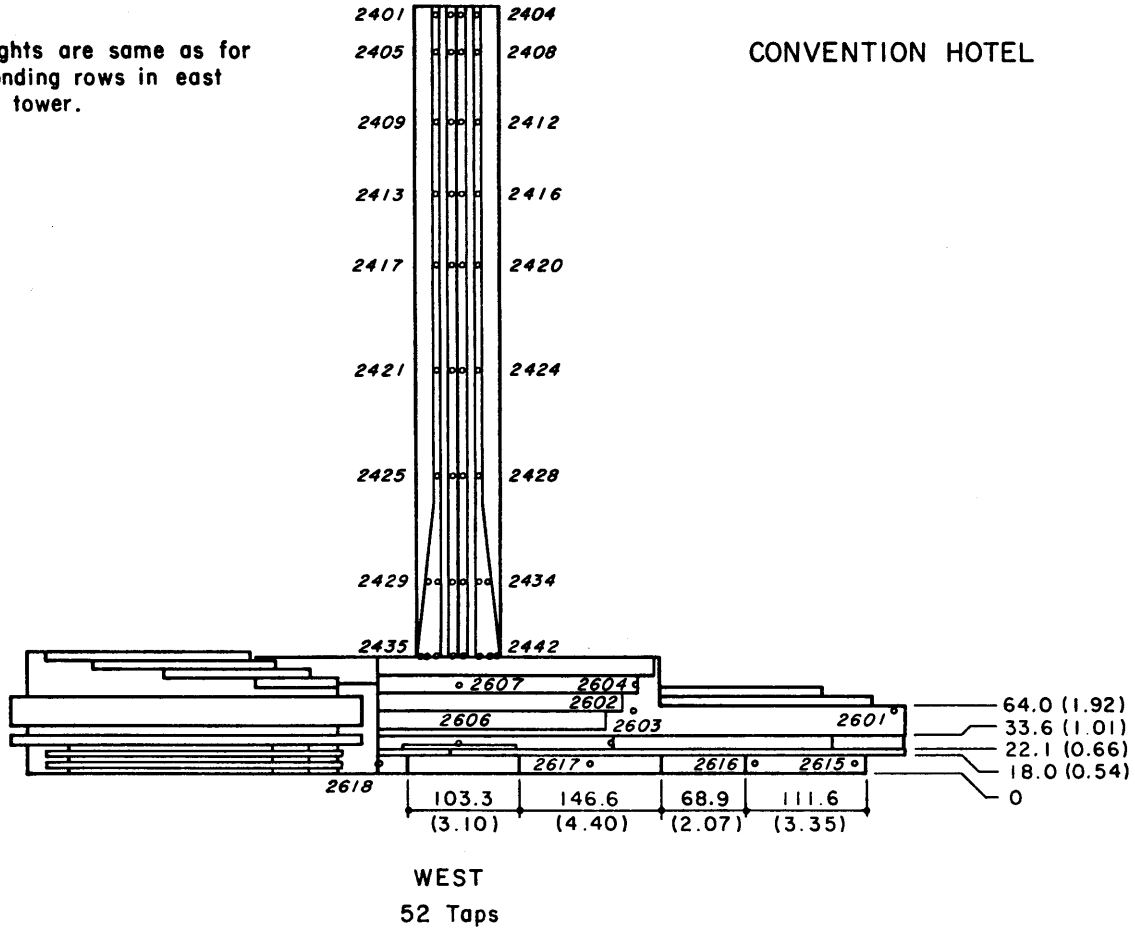


Figure 31. Pressure Tap Locations

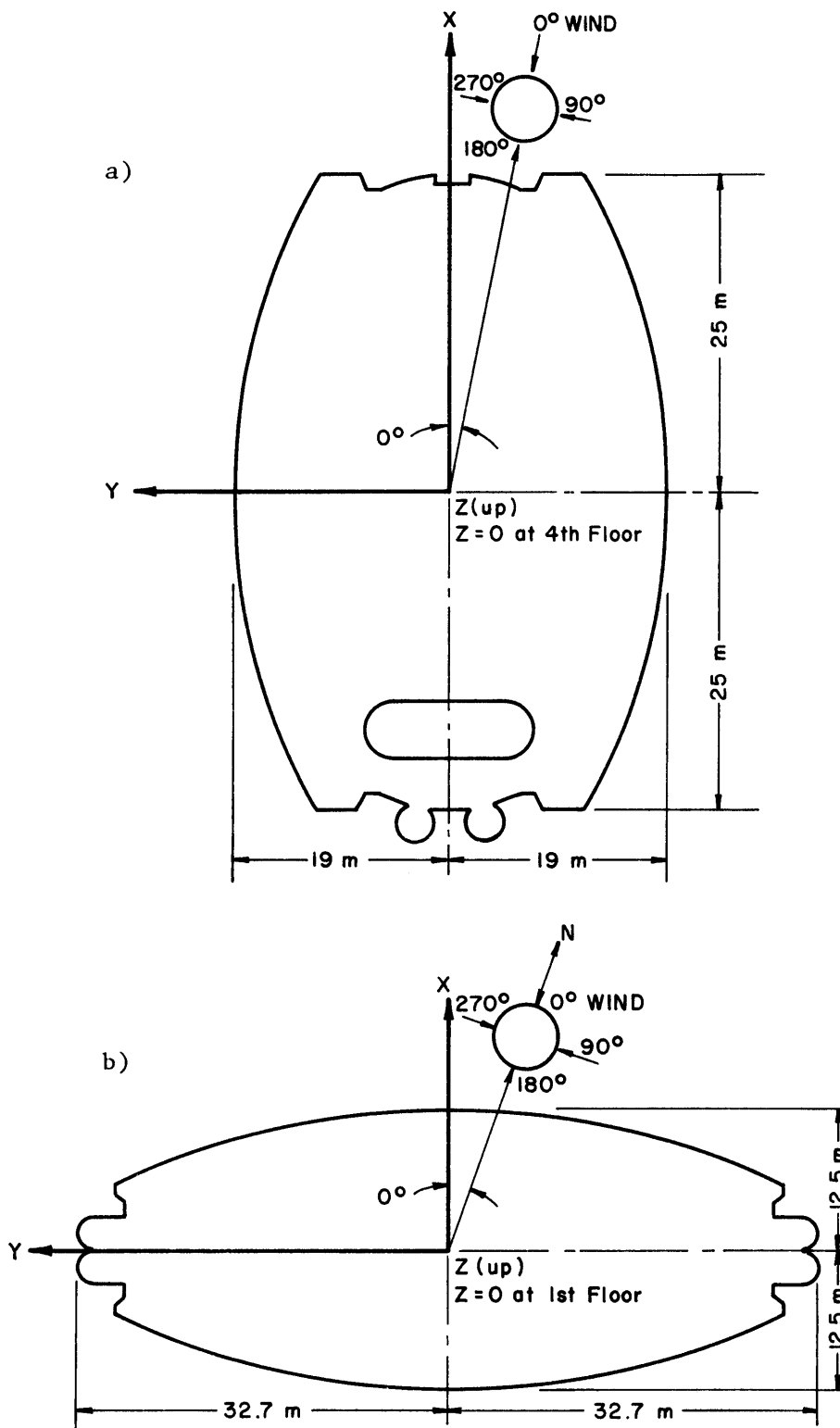


Figure 4. Tower Coordinate Systems
 a) Business-Tourist Hotel (upper)
 b) Convention Hotel (lower)

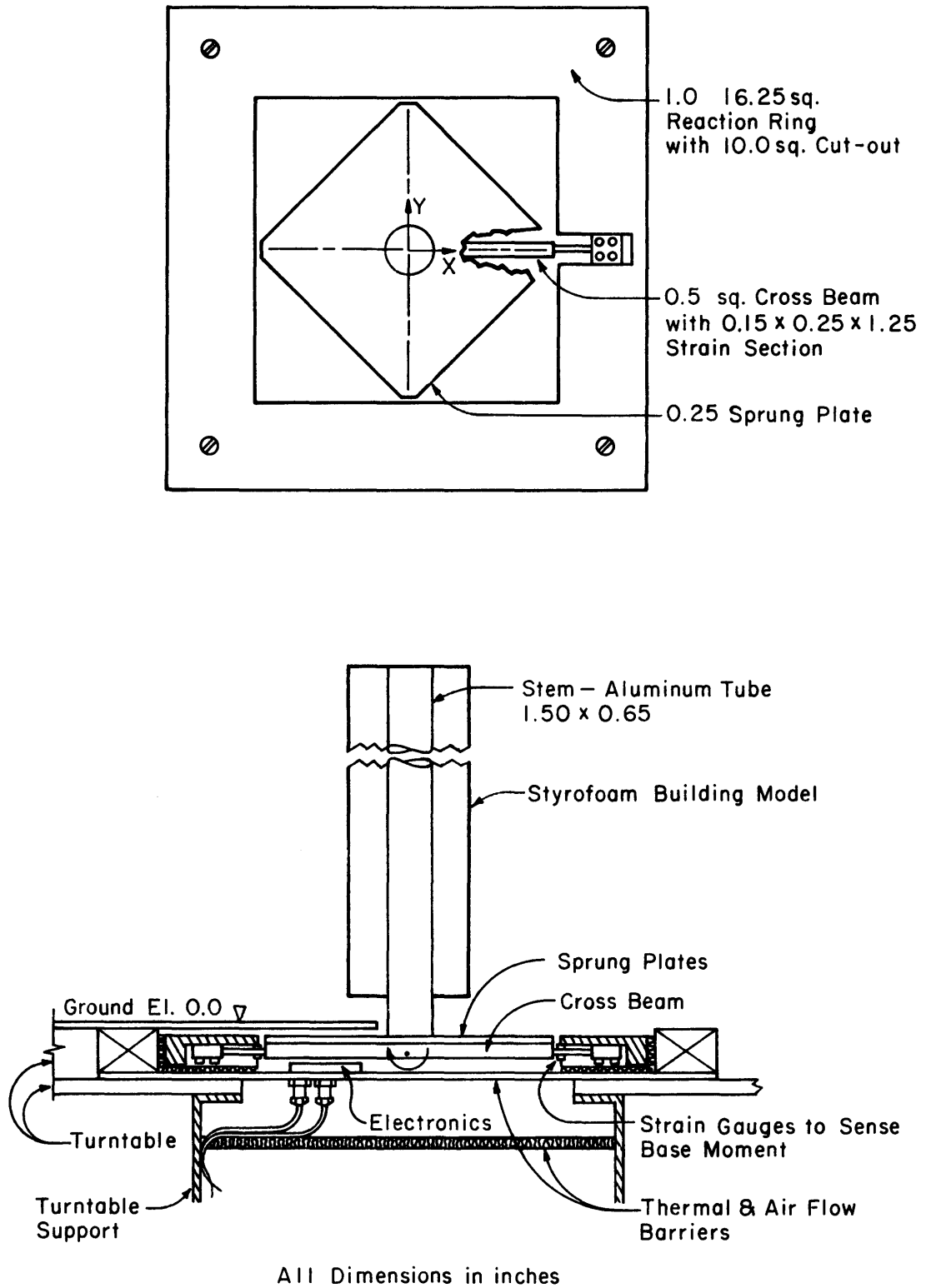


Figure 5. Dynamic Model and Balance System

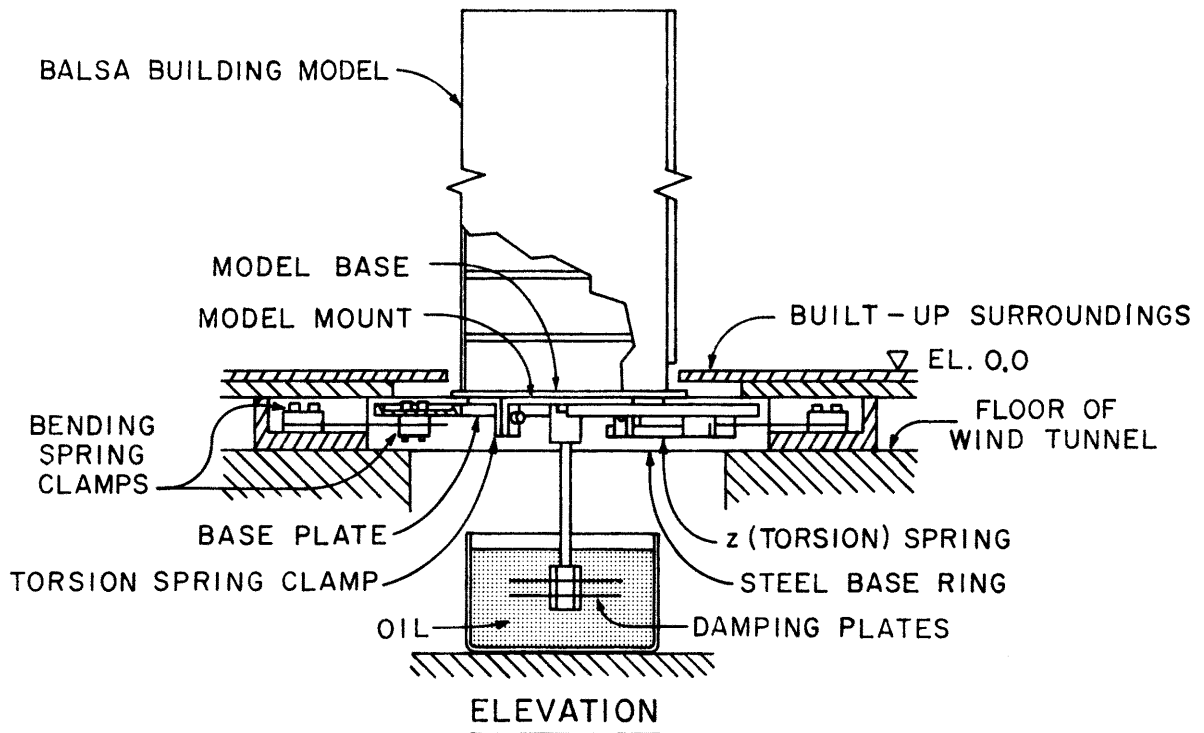
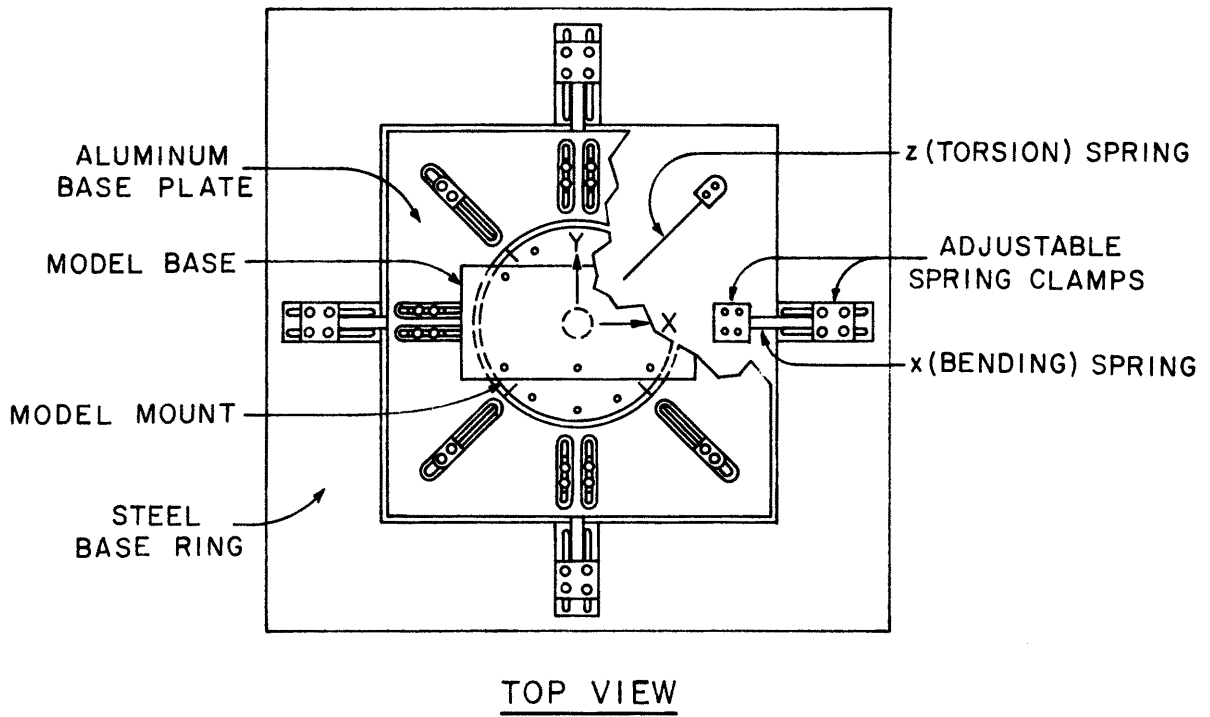


Figure 6. Aeroelastic Model

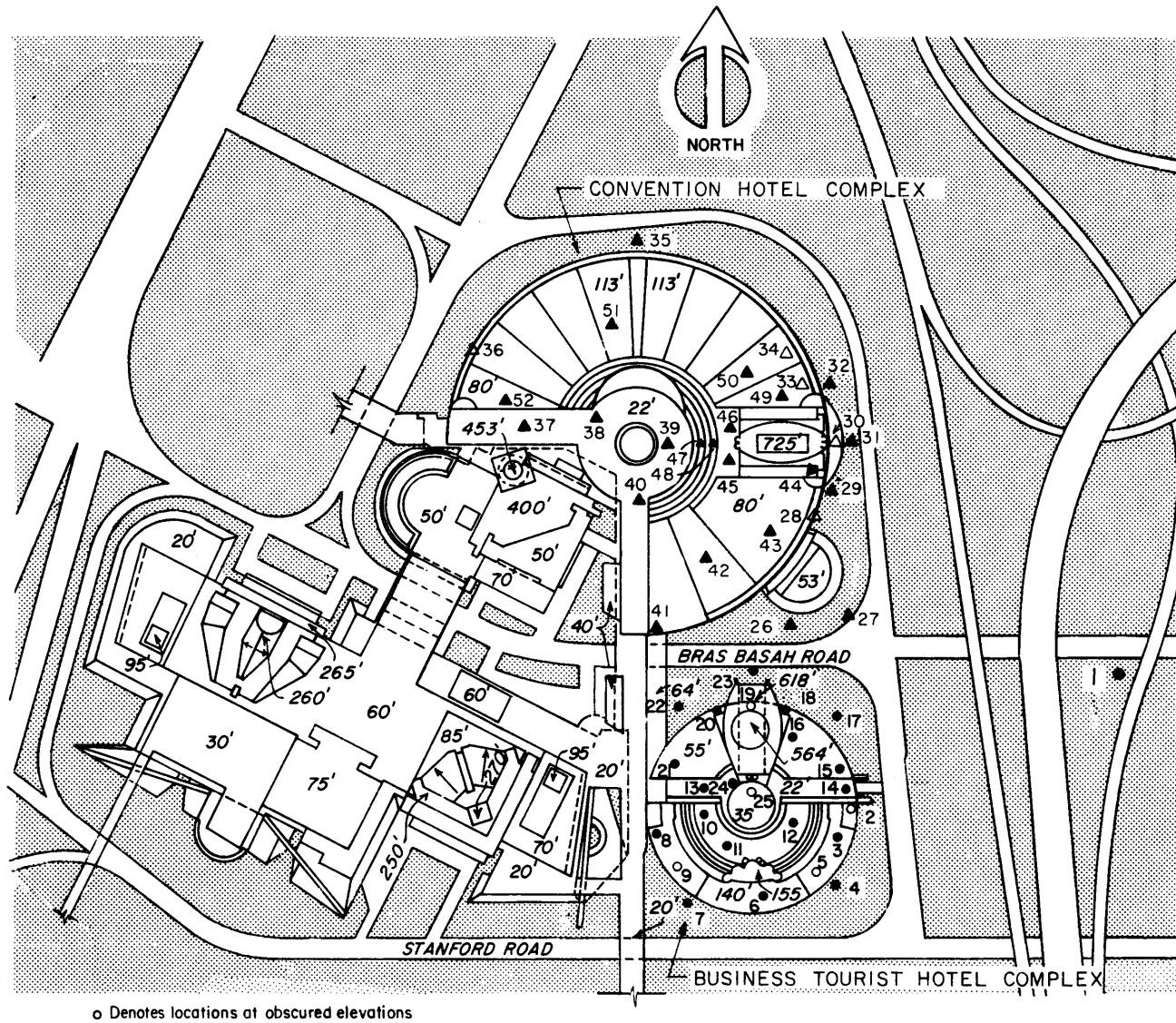


Figure 7. Building Location and Pedestrian Wind Velocity Measuring Positions

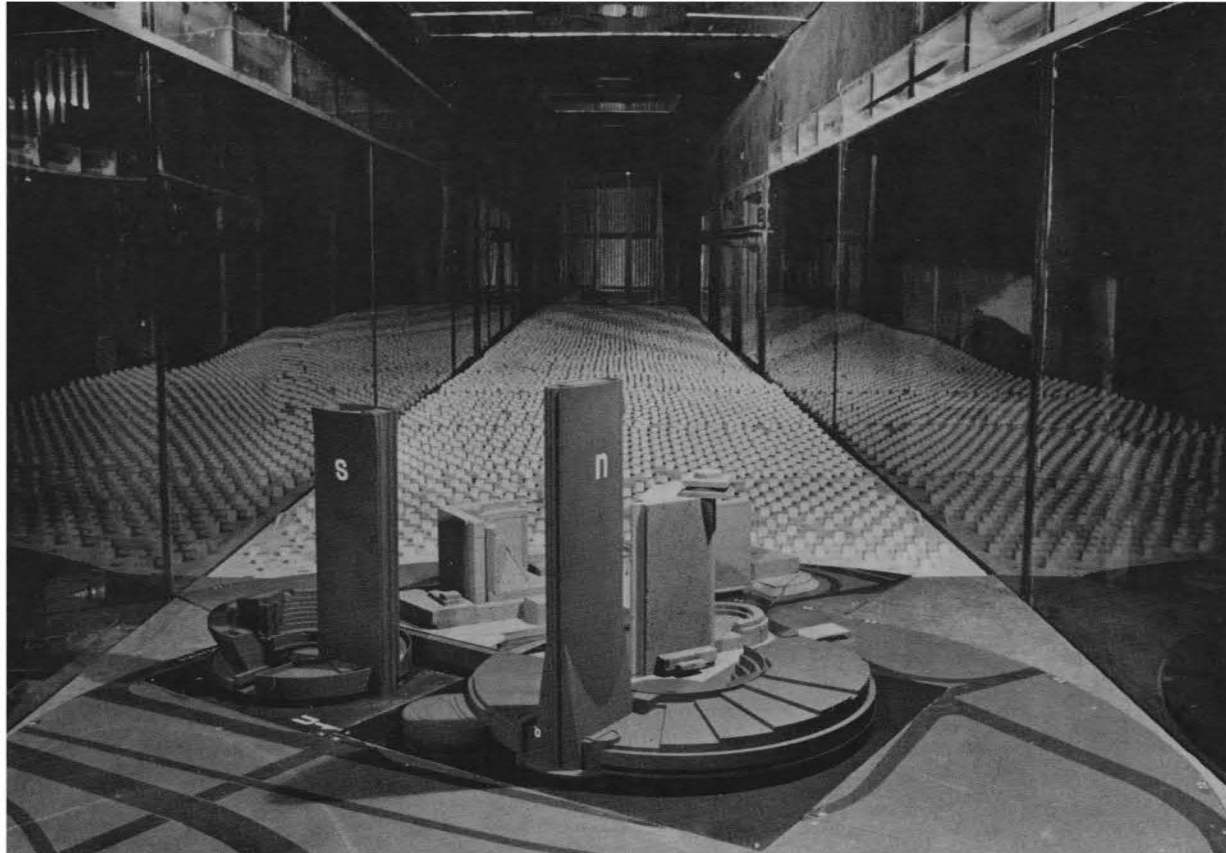


Figure 8. Completed Pressure Model in Wind Tunnel

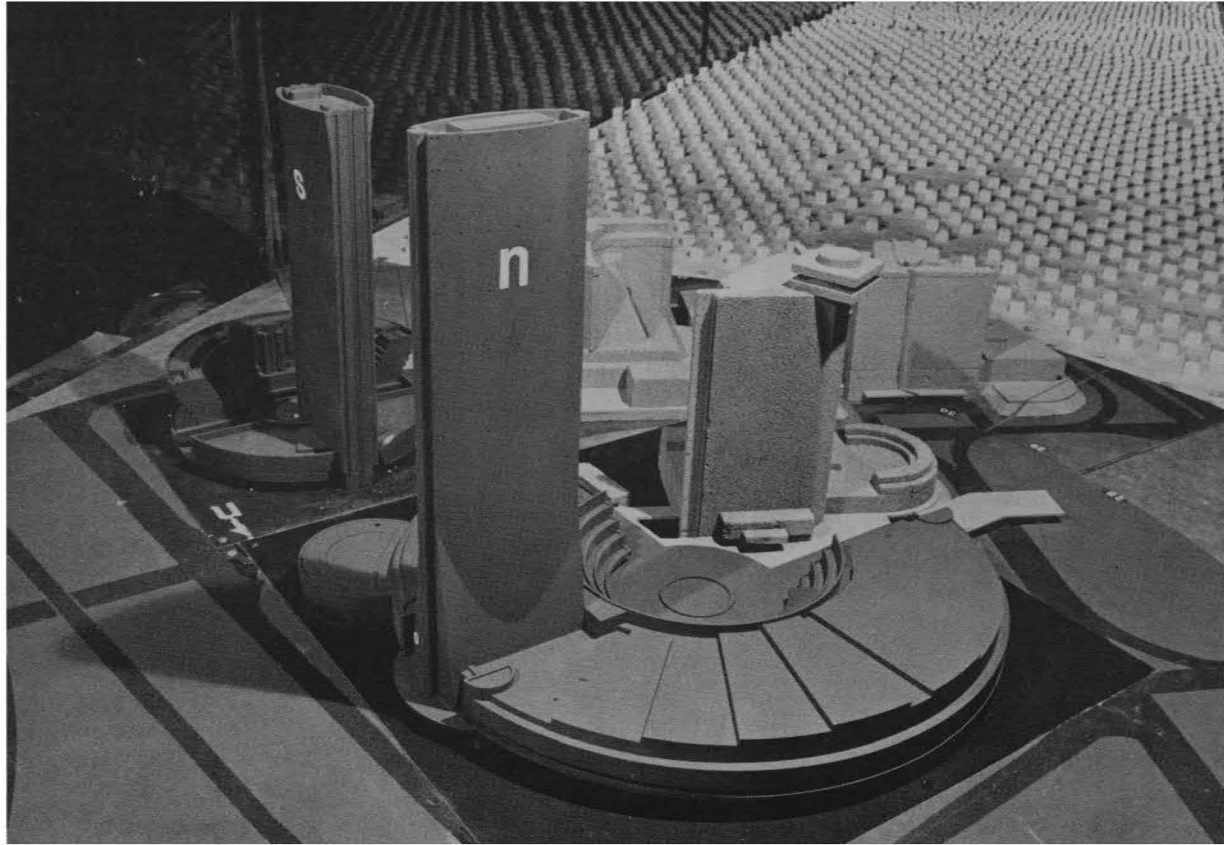


Figure 8. Completed Pressure Model in Wind Tunnel

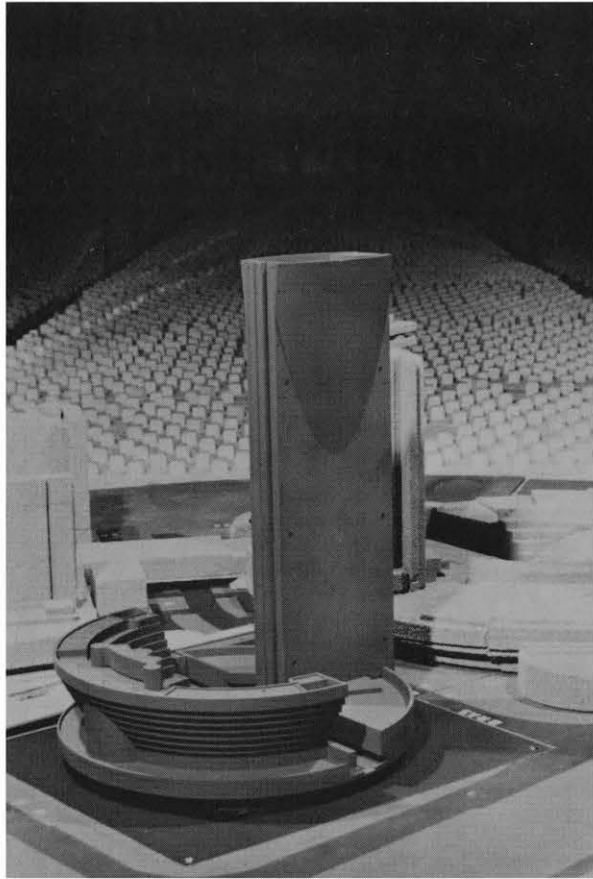


Figure 8. Completed Pressure Model in Wind Tunnel

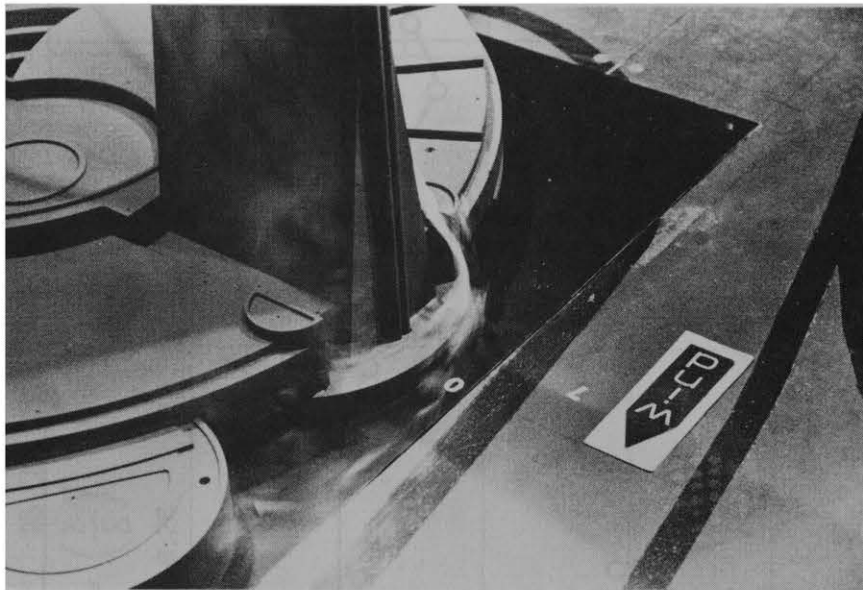
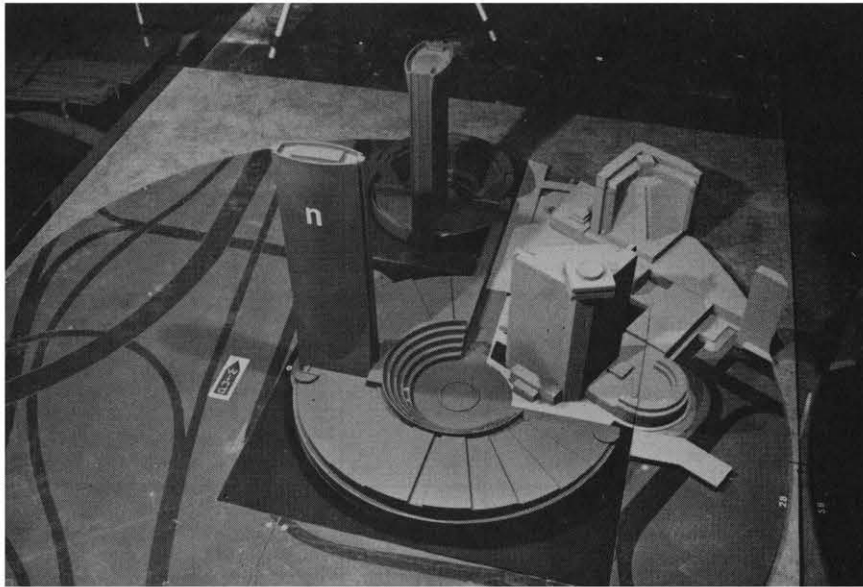


Figure 8. Completed Pressure Model in Wind Tunnel

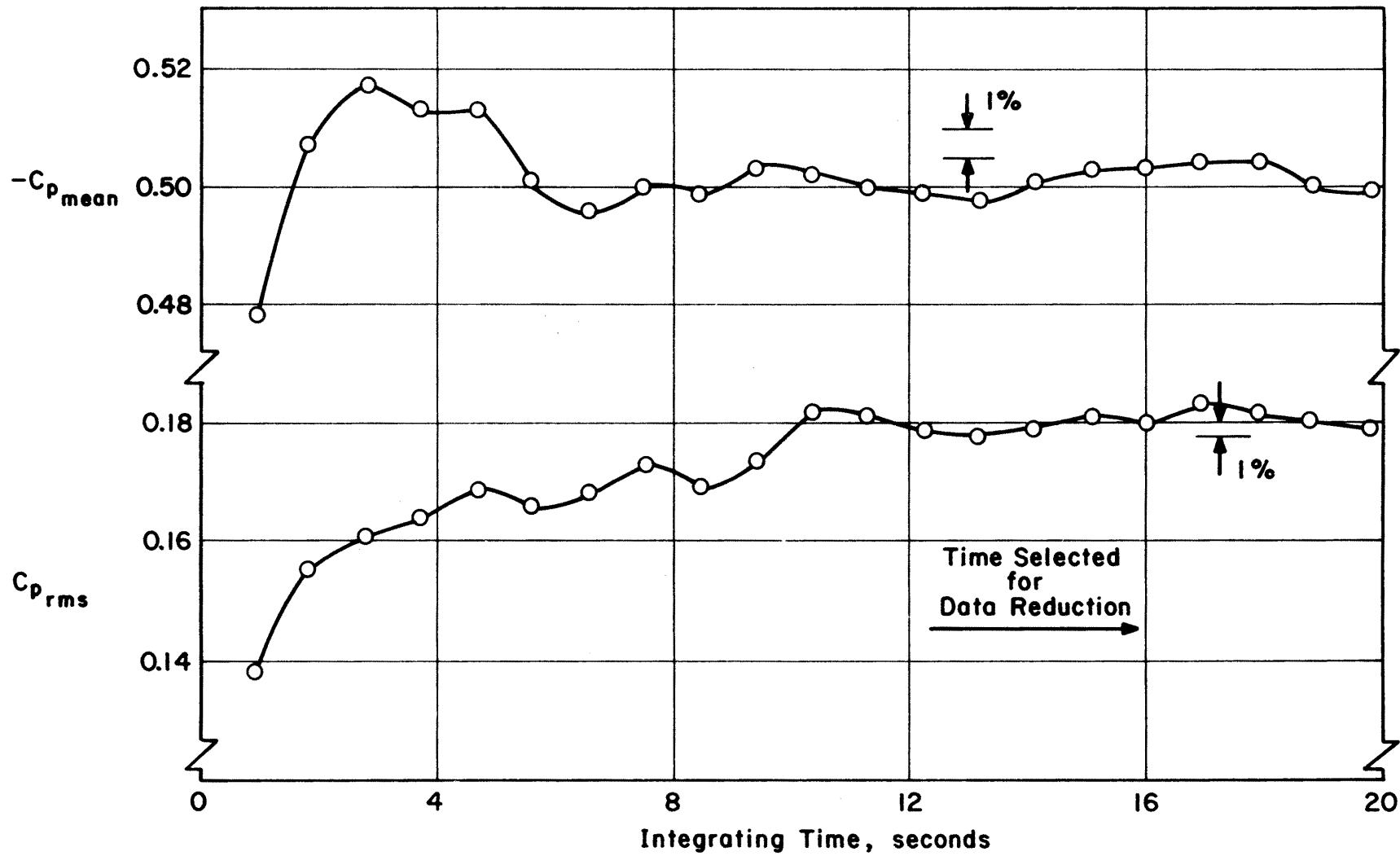


Figure 9. Data Sampling Time Verification

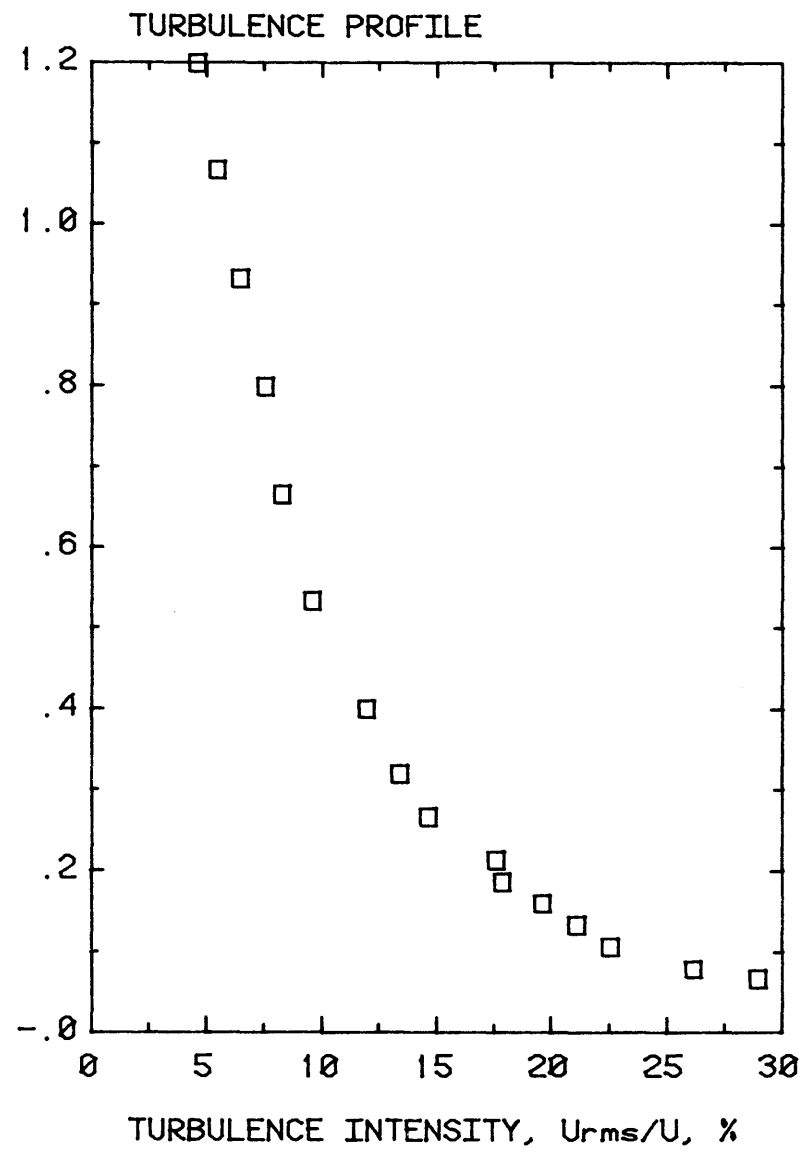
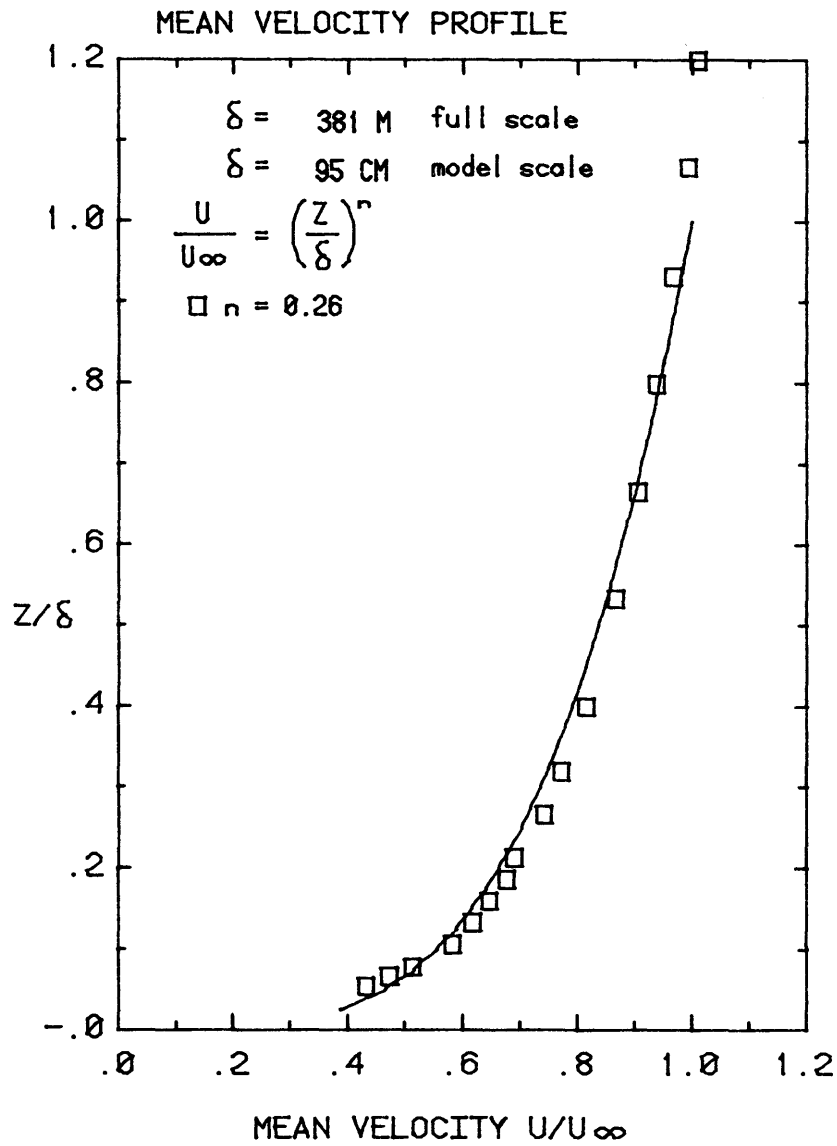


Figure 10. Mean Velocity and Turbulence Profiles Approaching the Model

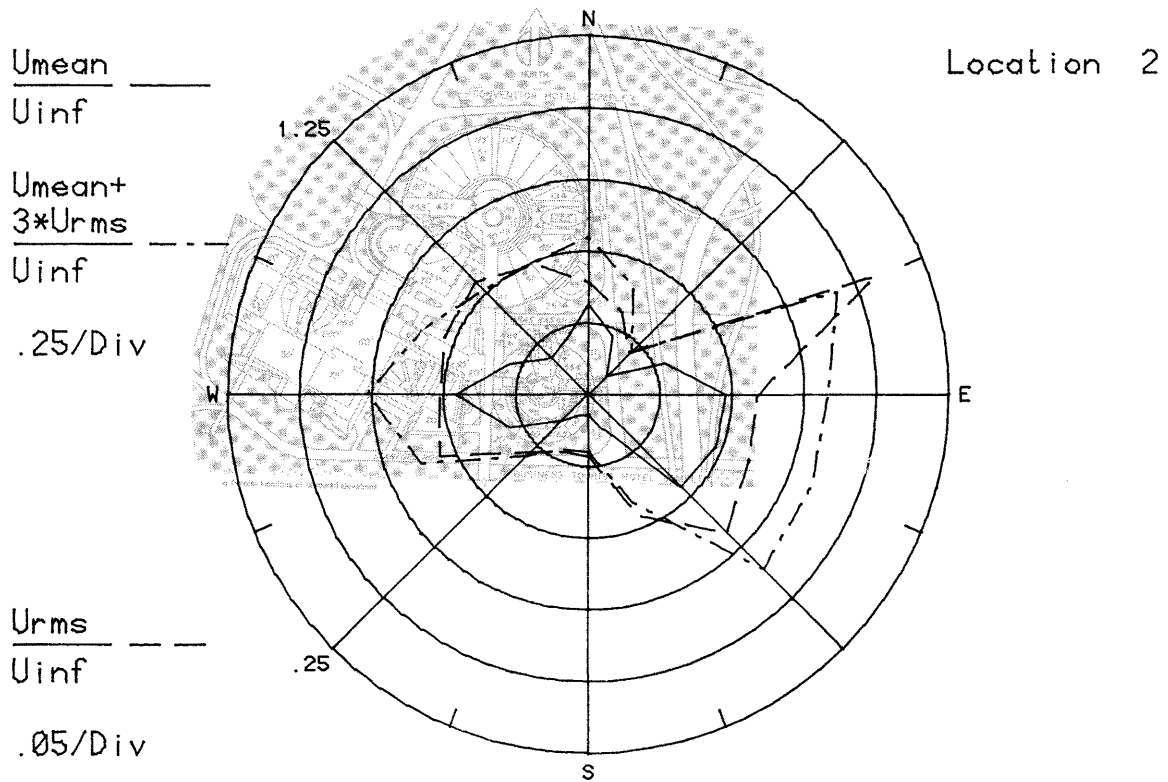
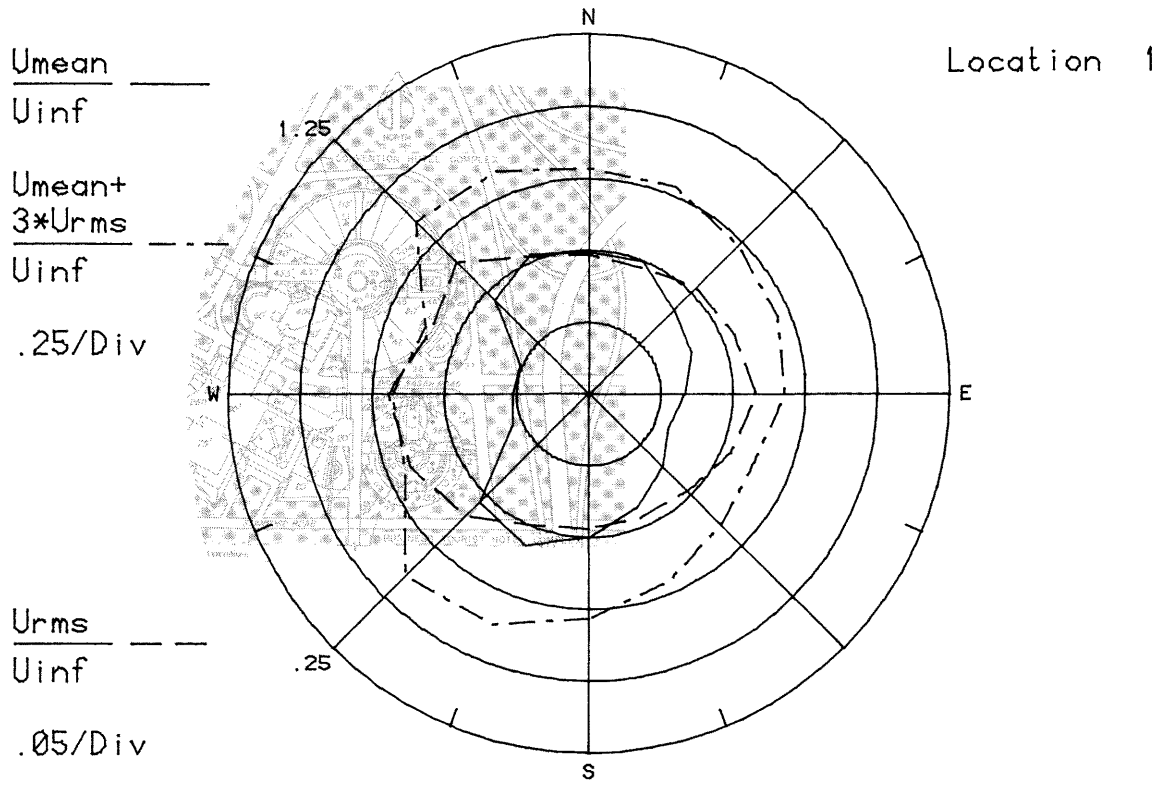


Figure 11a. Mean Velocities and Turbulence Intensities at Pedestrian Locations 1 and 2

$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

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

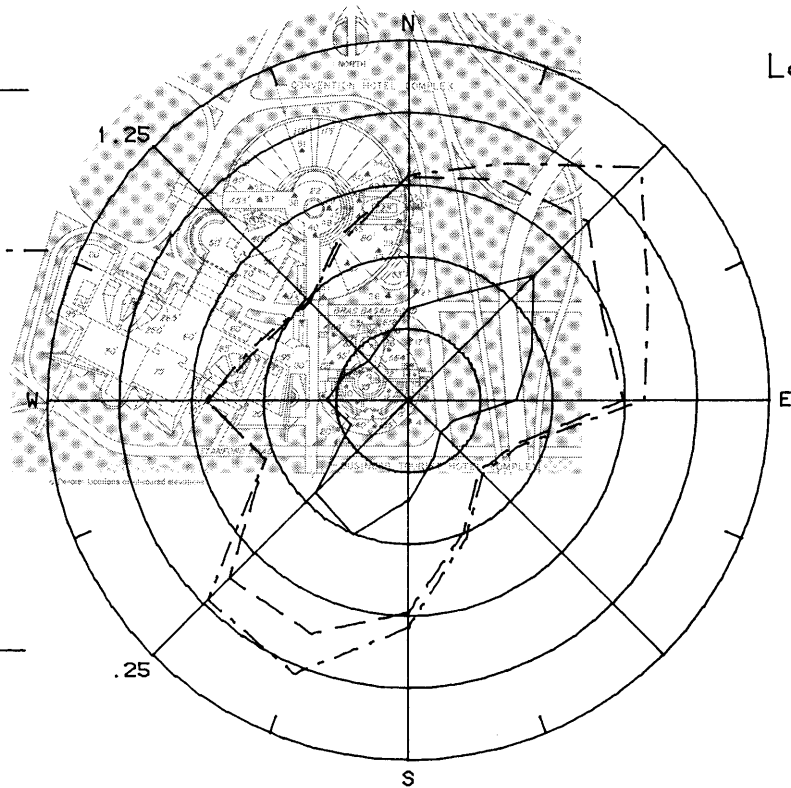
U_{inf}

.25/Div

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

U_{inf}

.05/Div



Location 3

$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

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

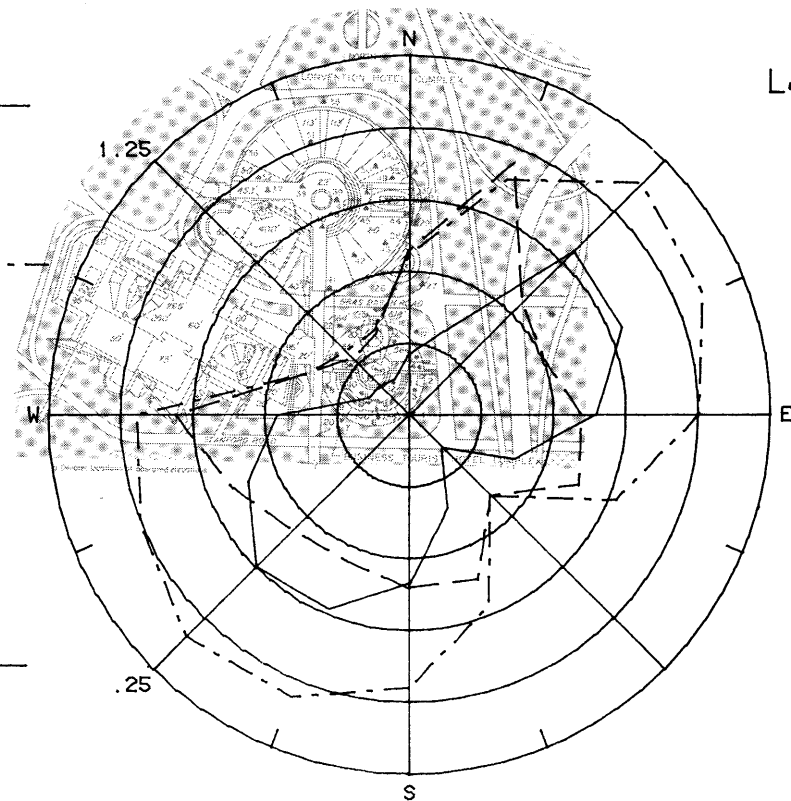
U_{inf}

.25/Div

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

U_{inf}

.05/Div



Location 4

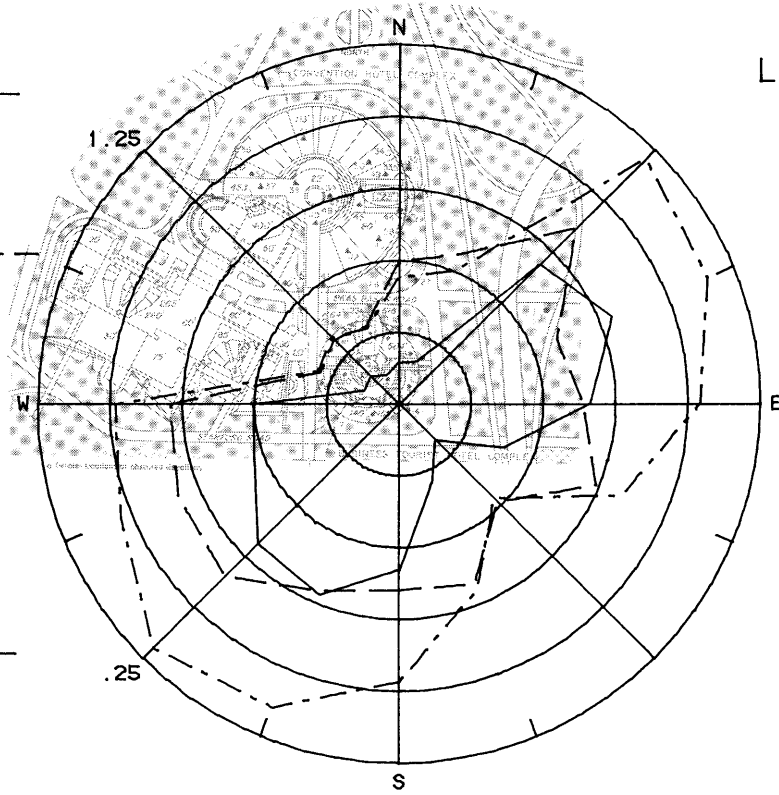
Figure IIb. Mean Velocities and Turbulence Intensities at Pedestrian Locations 3 and 4

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

Location 5

$\frac{U_{mean} + 3 * U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .05/Div



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

Location 6

$\frac{U_{mean} + 3 * U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .05/Div

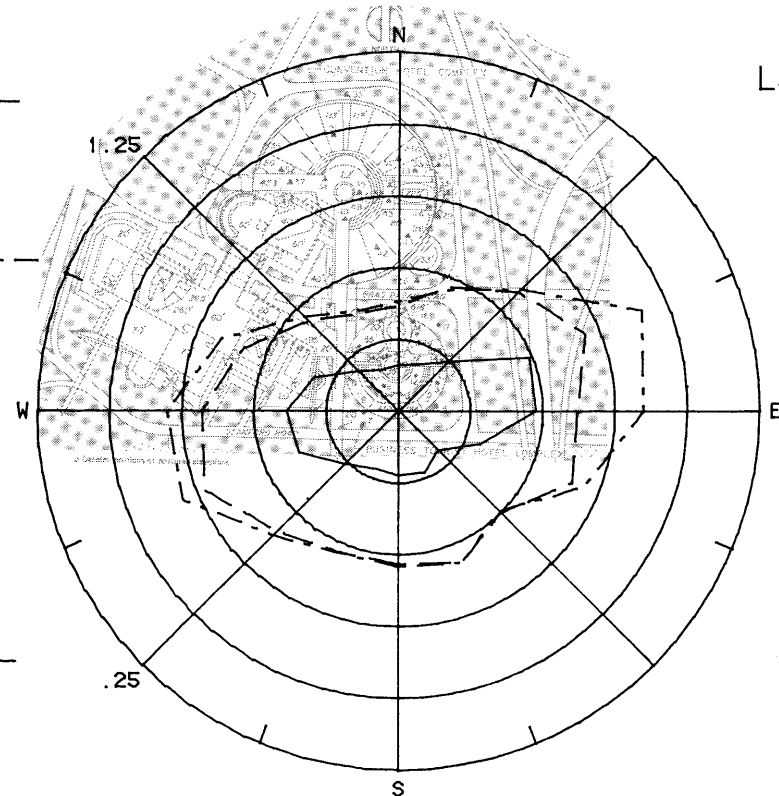


Figure 11c. Mean Velocities and Turbulence Intensities at Pedestrian Locations 5 and 6

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$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

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

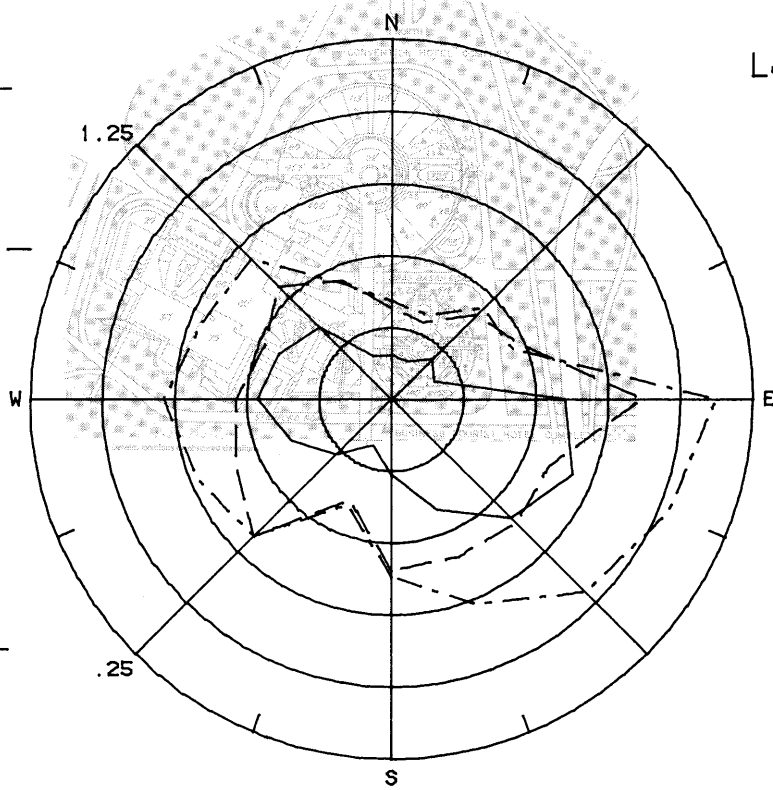
U_{inf}

.25/Div

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

U_{inf}

.05/Div



Location 7

$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

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

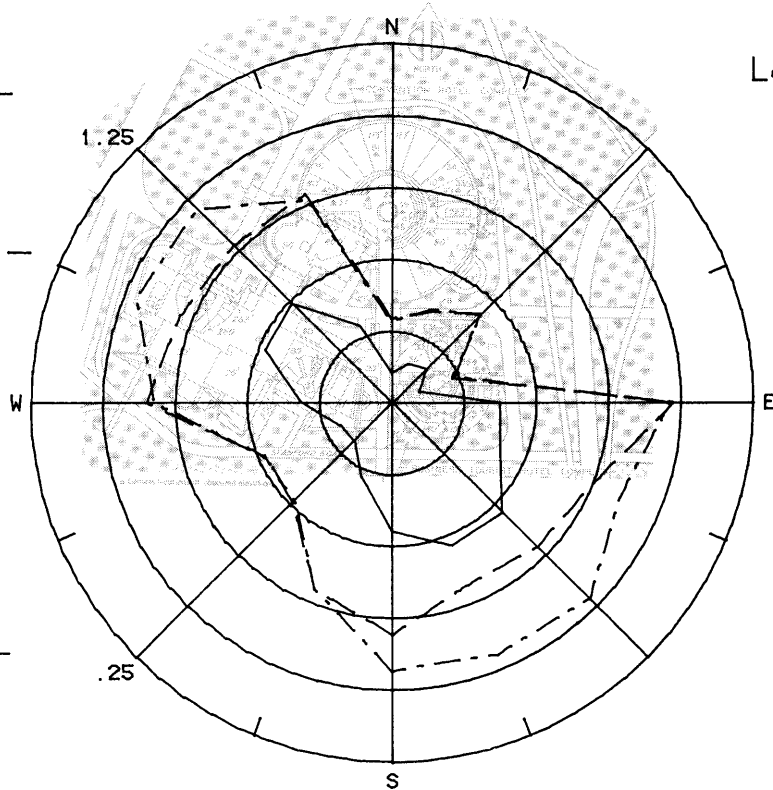
U_{inf}

.25/Div

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

U_{inf}

.05/Div



Location 8

Figure 11d. Mean Velocities and Turbulence Intensities at Pedestrian Locations 7 and 8

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

.25/Div

.25

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

.25/Div

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

.25/Div

.25

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

.25/Div

Location 9

Location 10

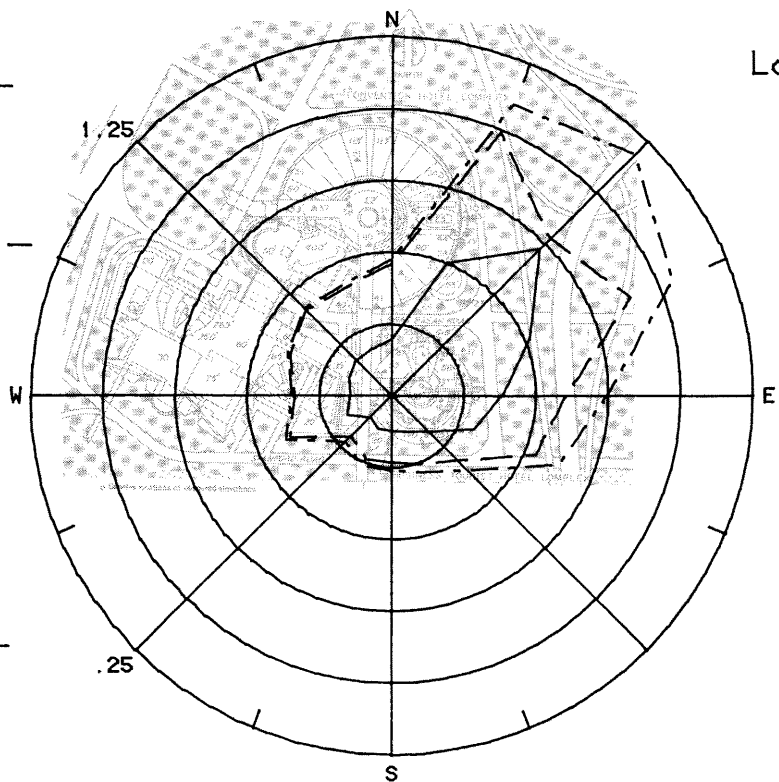
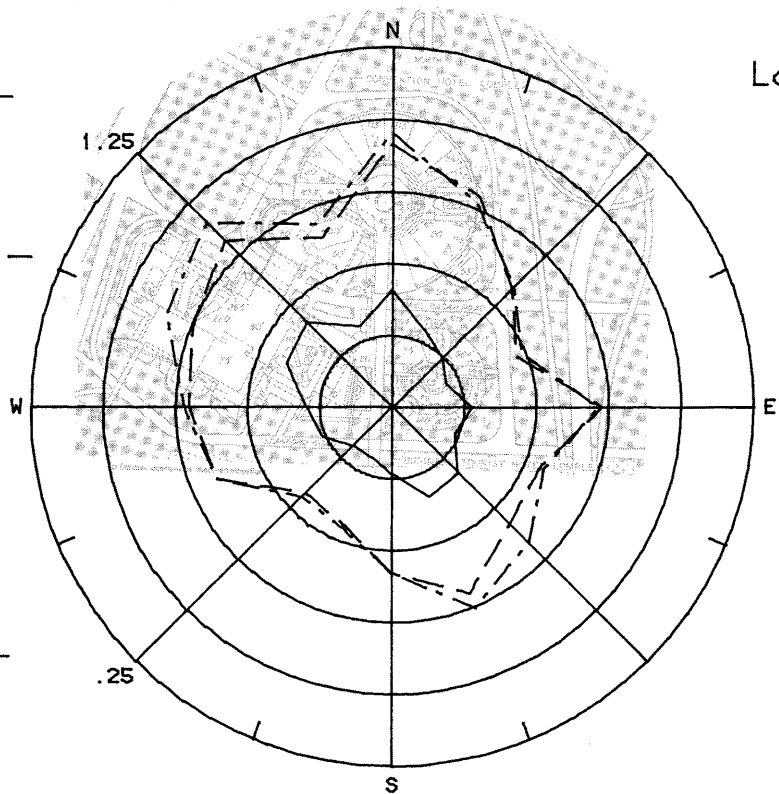


Figure IIe. Mean Velocities and Turbulence Intensities at Pedestrian Locations 9 and 10

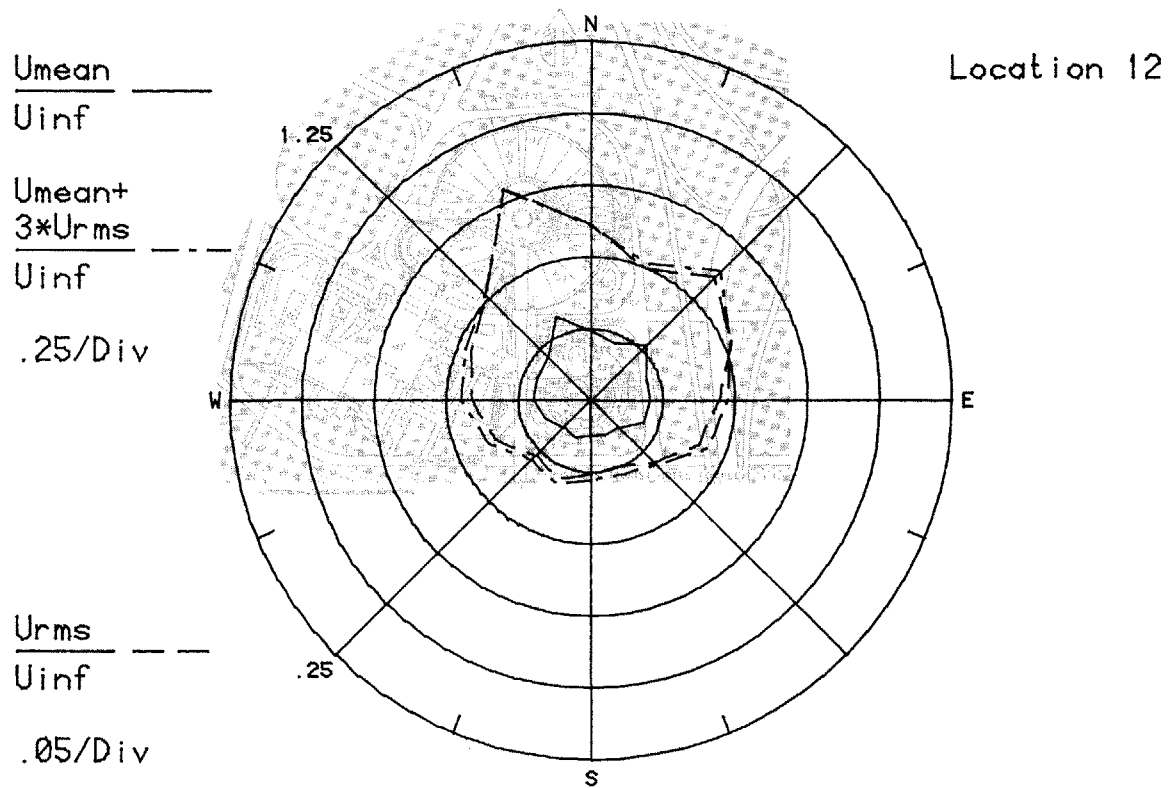
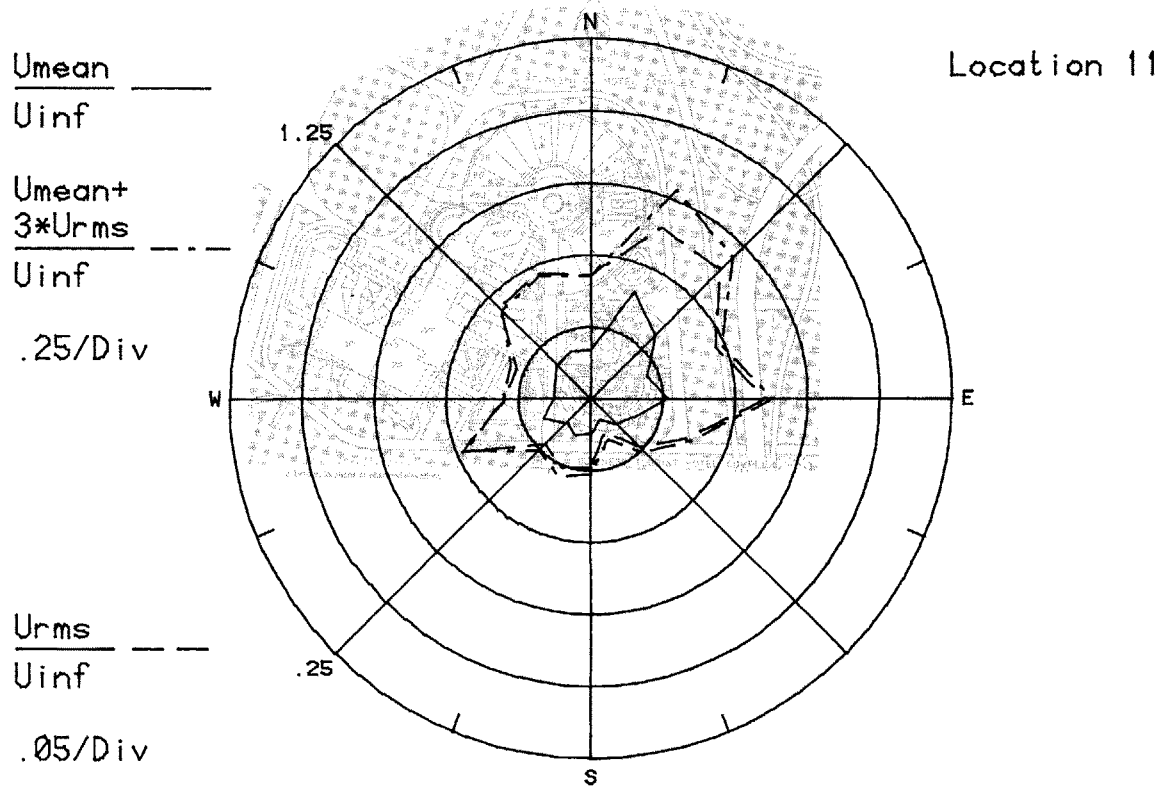


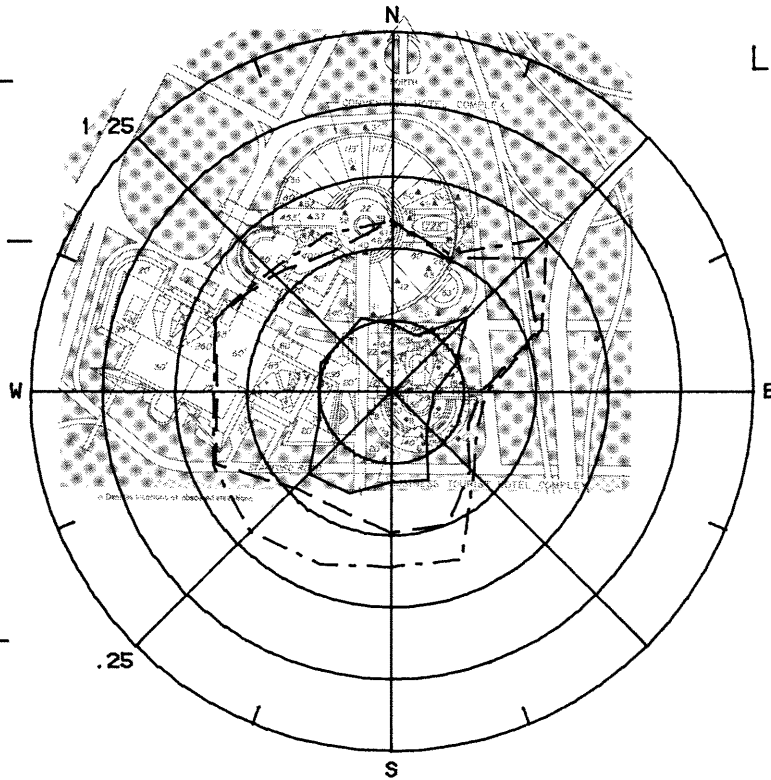
Figure 11f. Mean Velocities and Turbulence Intensities at Pedestrian Locations 11 and 12

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

Location 13

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

.25/Div



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

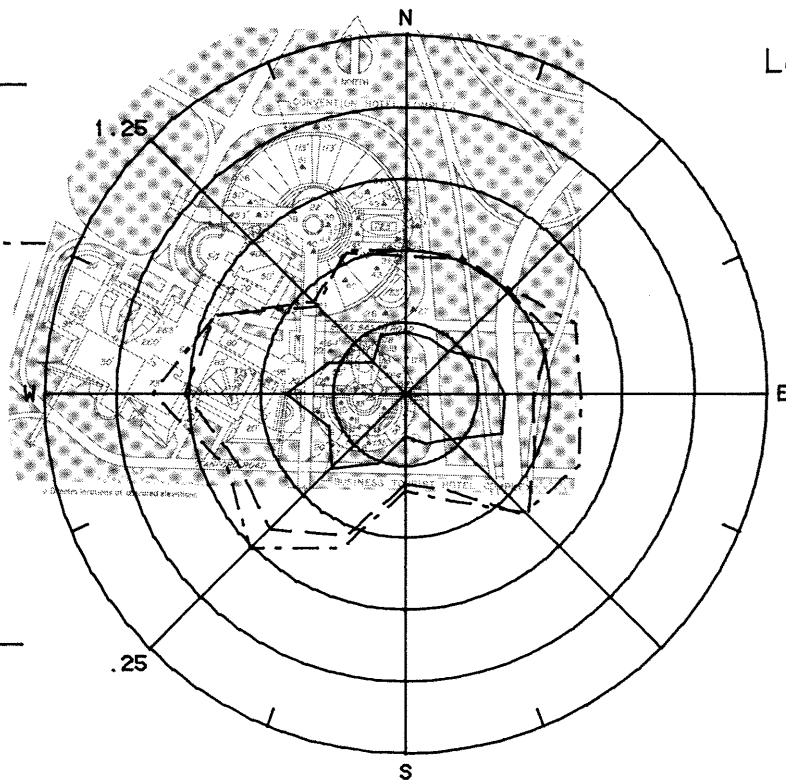
.05/Div

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

Location 14

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

.25/Div



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

.05/Div

Figure 11g. Mean Velocities and Turbulence Intensities at Pedestrian Locations 13 and 14

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$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

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

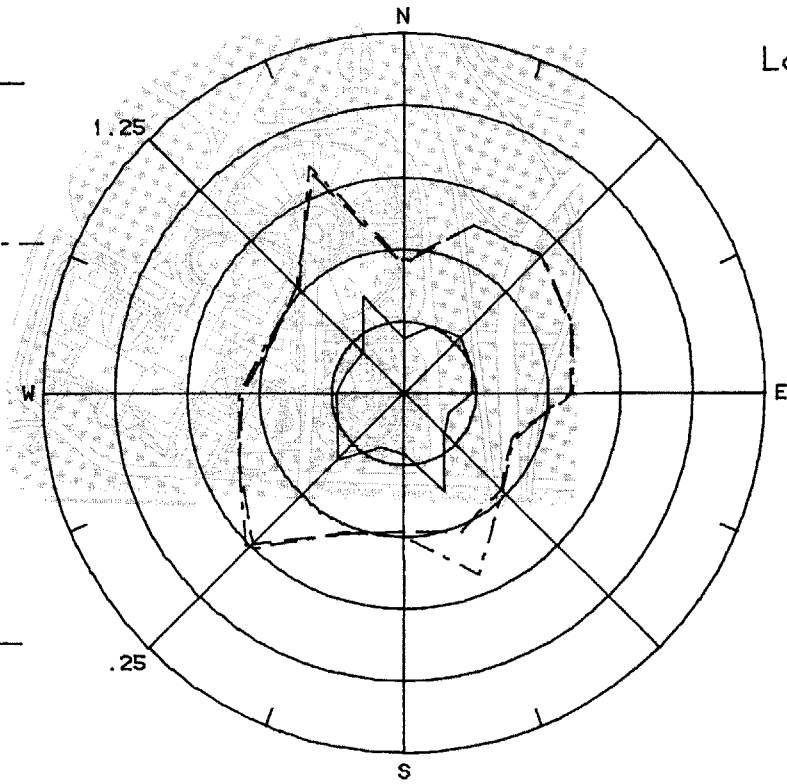
U_{inf}

.25/Div

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

U_{inf}

.05/Div



Location 15

$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

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

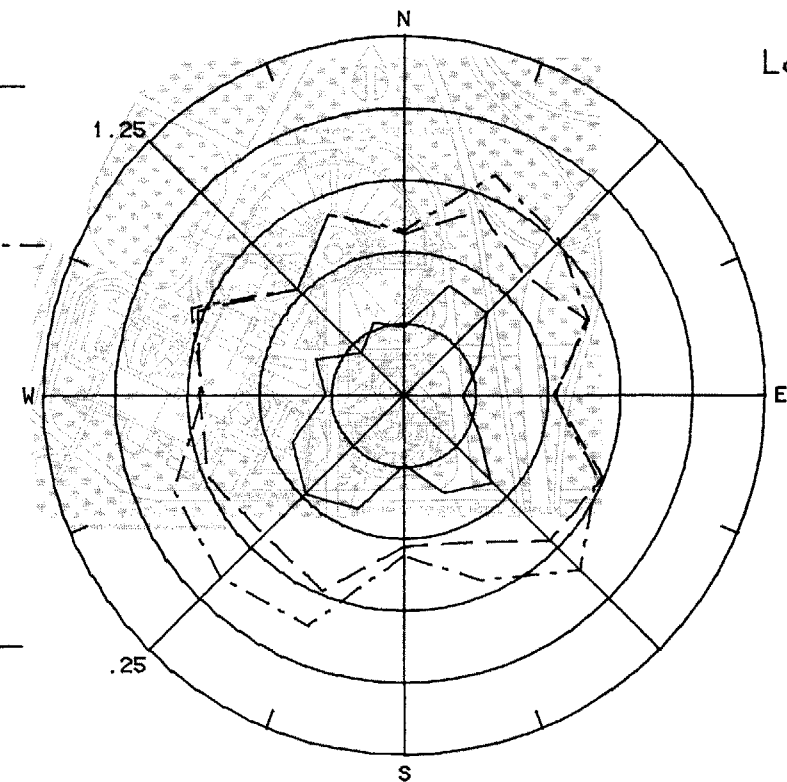
U_{inf}

.25/Div

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

U_{inf}

.05/Div



Location 16

Figure 11h. Mean Velocities and Turbulence Intensities at Pedestrian Locations 15 and 16

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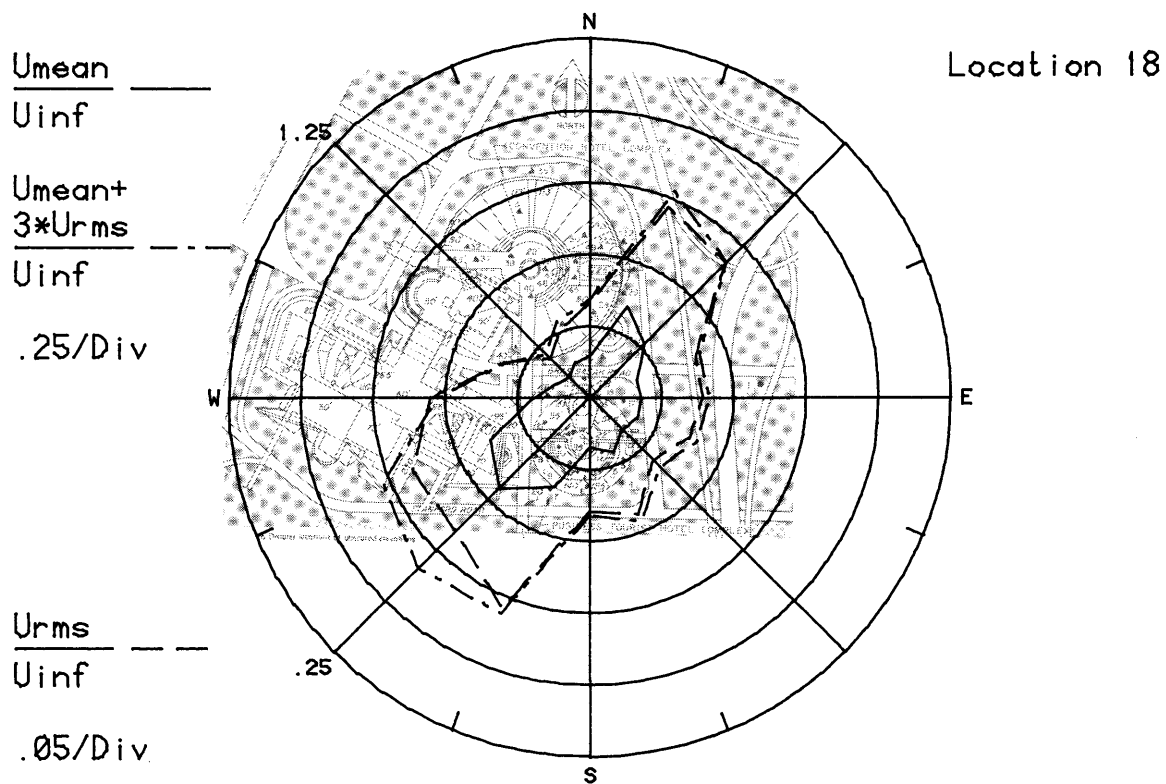
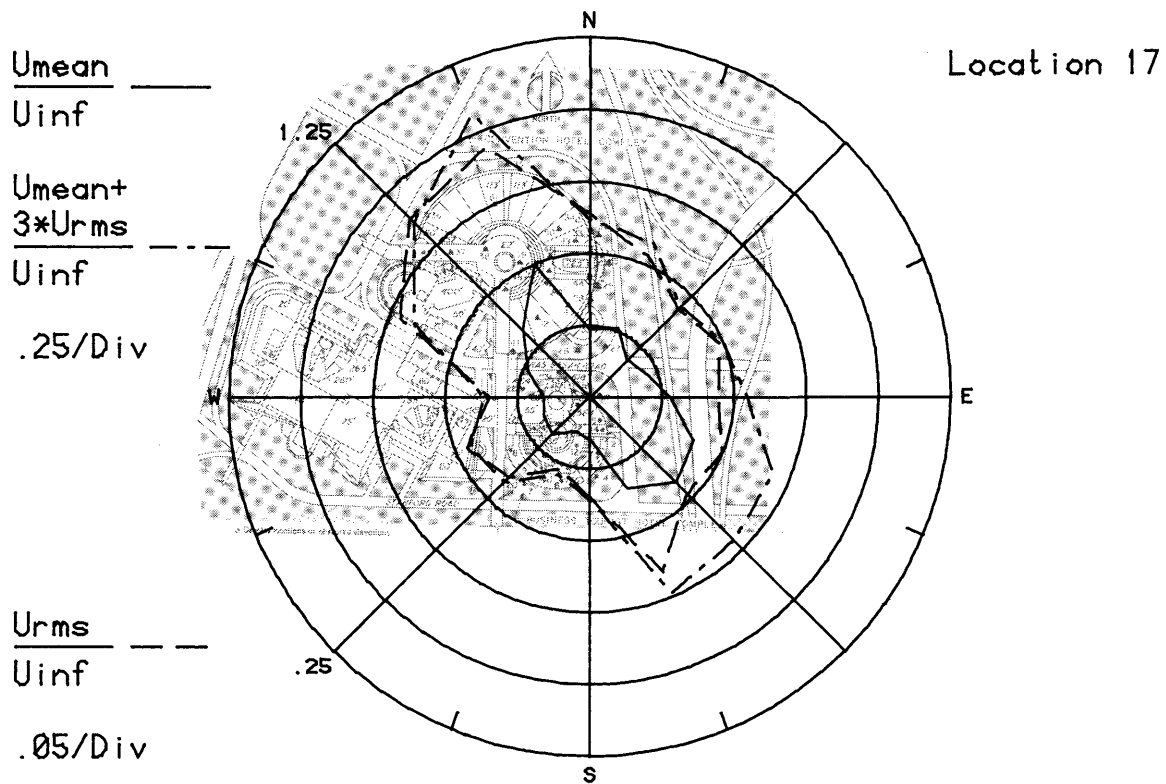


Figure III. Mean Velocities and Turbulence Intensities at Pedestrian Locations 17 and 18

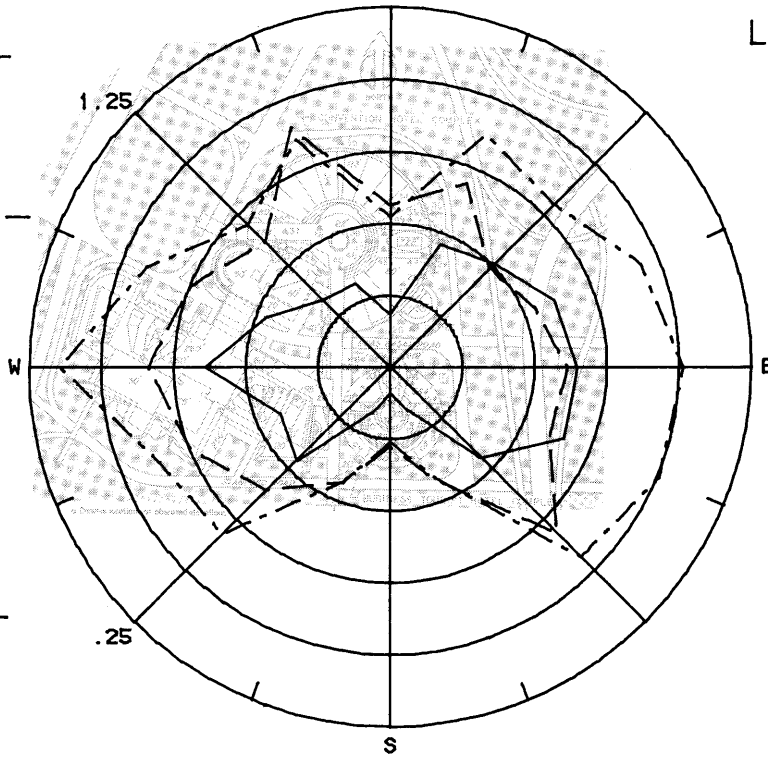
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$\frac{U_{mean}}{U_{inf}}$ ———
 U_{inf}

Location 19

$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .25/Div

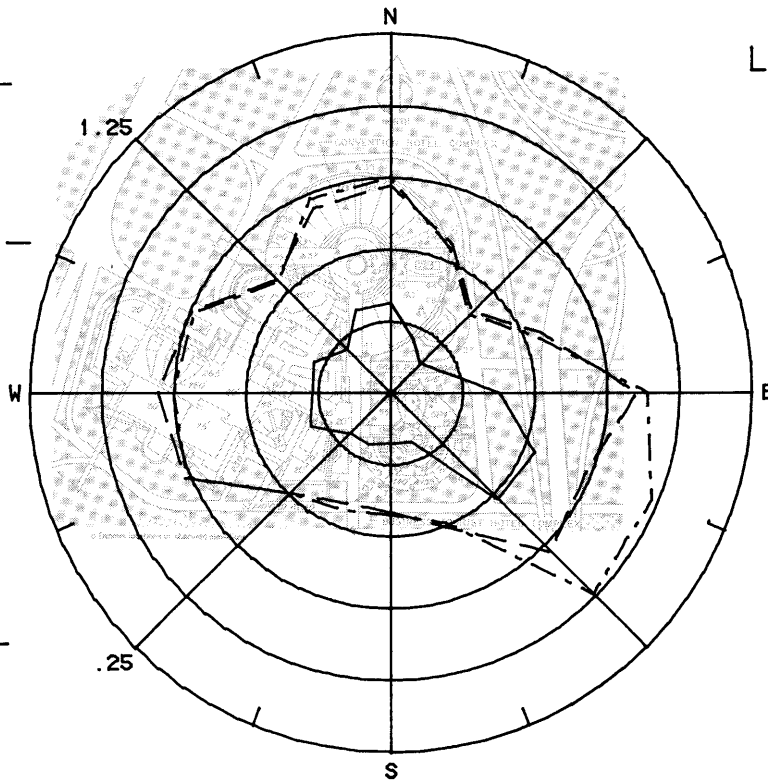


$\frac{U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .05/Div

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

Location 20

$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .25/Div

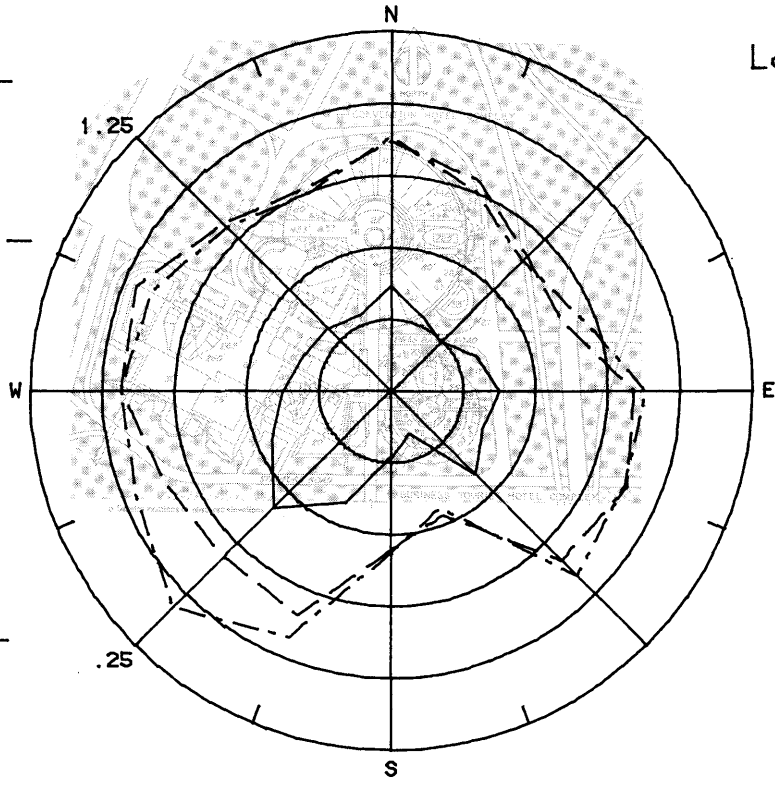


$\frac{U_{rms}}{U_{inf}}$ - - - -
 U_{inf}
 .05/Div

Figure 11j. Mean Velocities and Turbulence Intensities at Pedestrian Locations 19 and 20

$\frac{U_{mean}}{U_{inf}}$ ———
 $\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -
.25/Div
 $\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div

Location 21



$\frac{U_{mean}}{U_{inf}}$ ———
 $\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -
.25/Div
 $\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div

Location 22

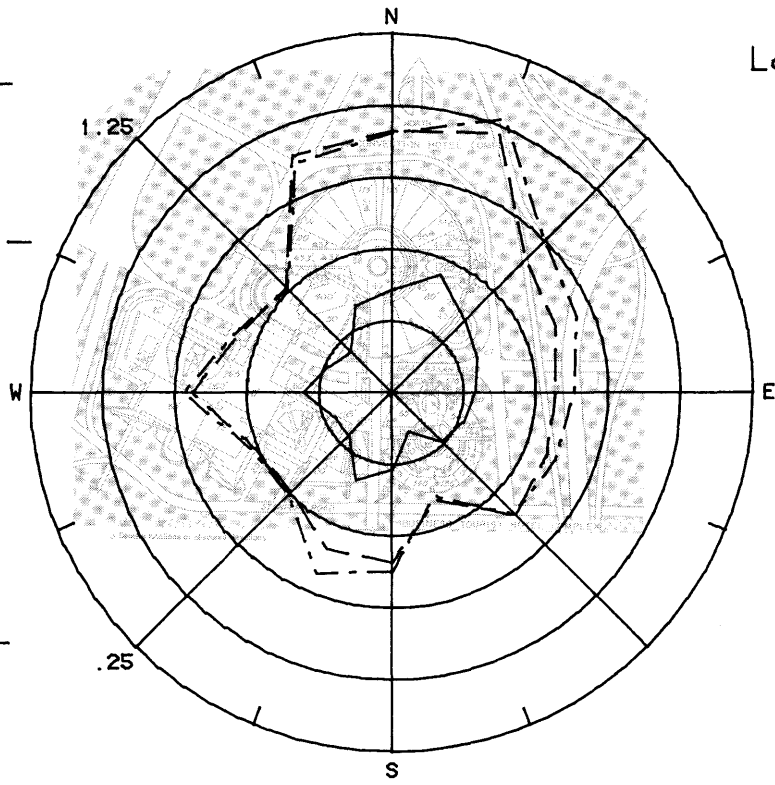


Figure 11k. Mean Velocities and Turbulence Intensities at Pedestrian Locations 21 and 22

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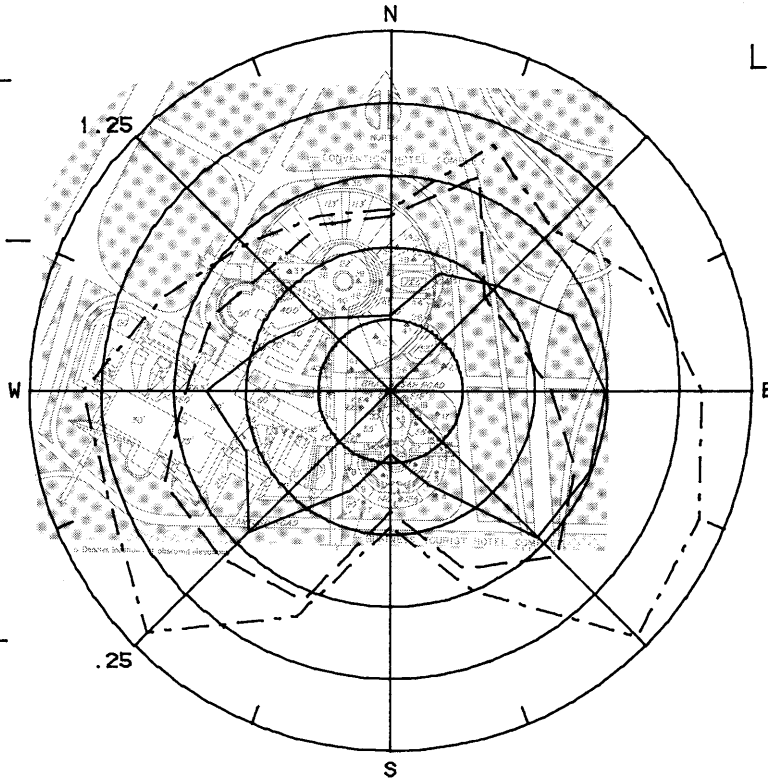
$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

$U_{mean} + 3 * U_{rms}$

 U_{inf}

.25/Div



Location 23

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

U_{inf}

.05/Div

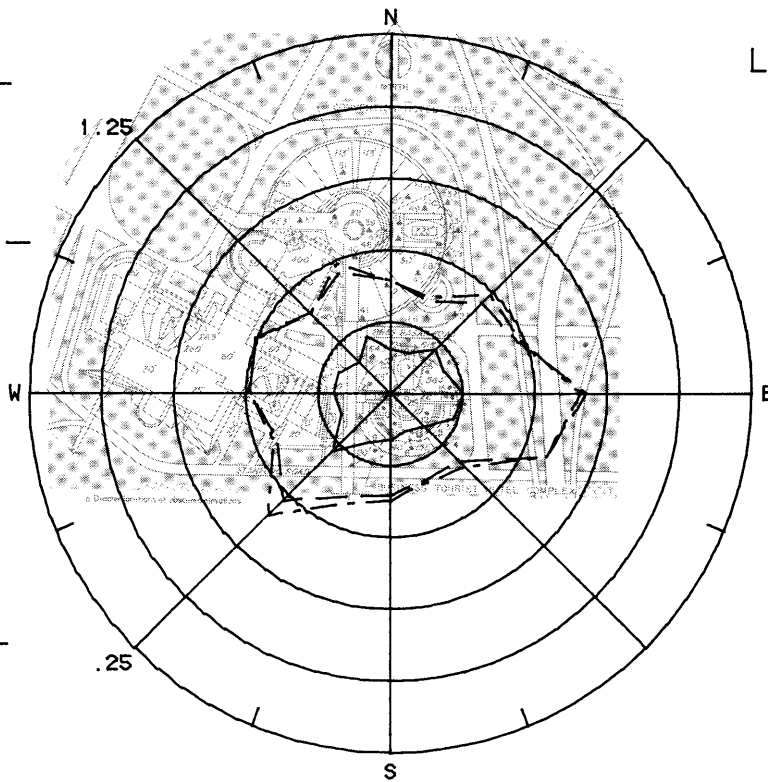
$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

$U_{mean} + 3 * U_{rms}$

 U_{inf}

.25/Div



Location 24

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

U_{inf}

.05/Div

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

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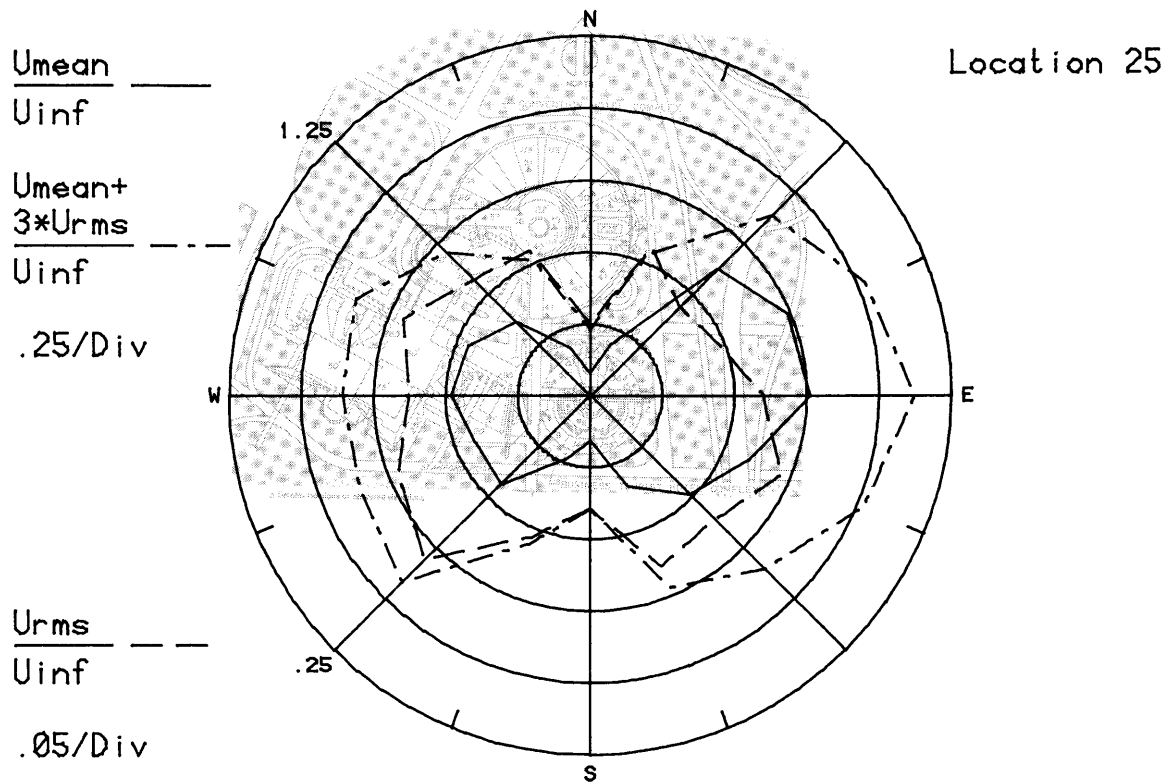


Figure 11m. Mean Velocities and Turbulence Intensities at Pedestrian Location 25

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$\frac{U_{mean}}{U_{inf}}$ ———

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

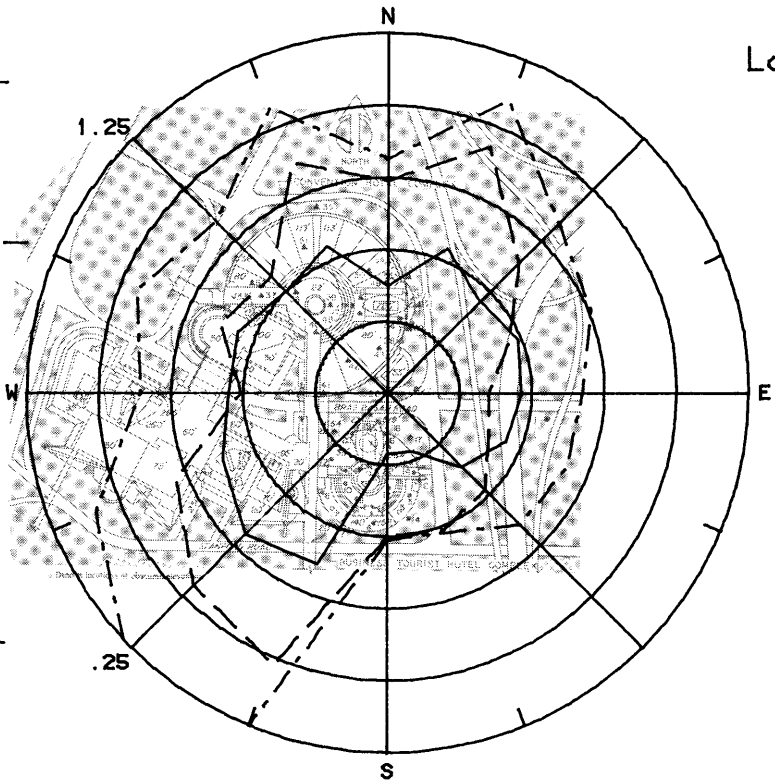
$\frac{U_{rms}}{U_{inf}}$ - - - - -

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

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

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

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



Location 26

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

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

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

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

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

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

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

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

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

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

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

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

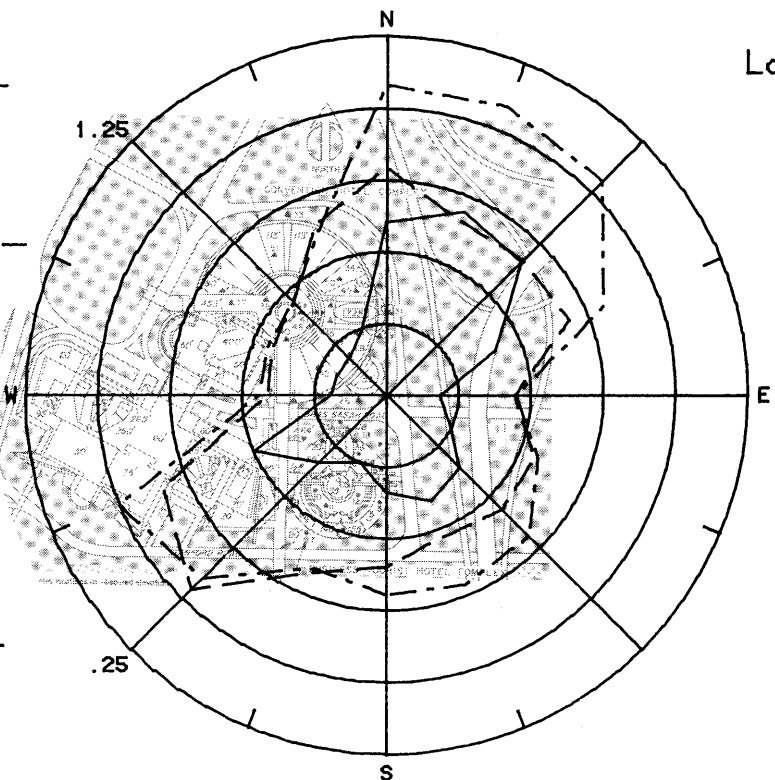
$\frac{U_{rms}}{U_{inf}}$ - - - - -

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

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

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

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



Location 27

Figure 11n. Mean Velocities and Turbulence Intensities at Pedestrian Locations 26 and 27

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CONVENTION HOTEL COMPLEX

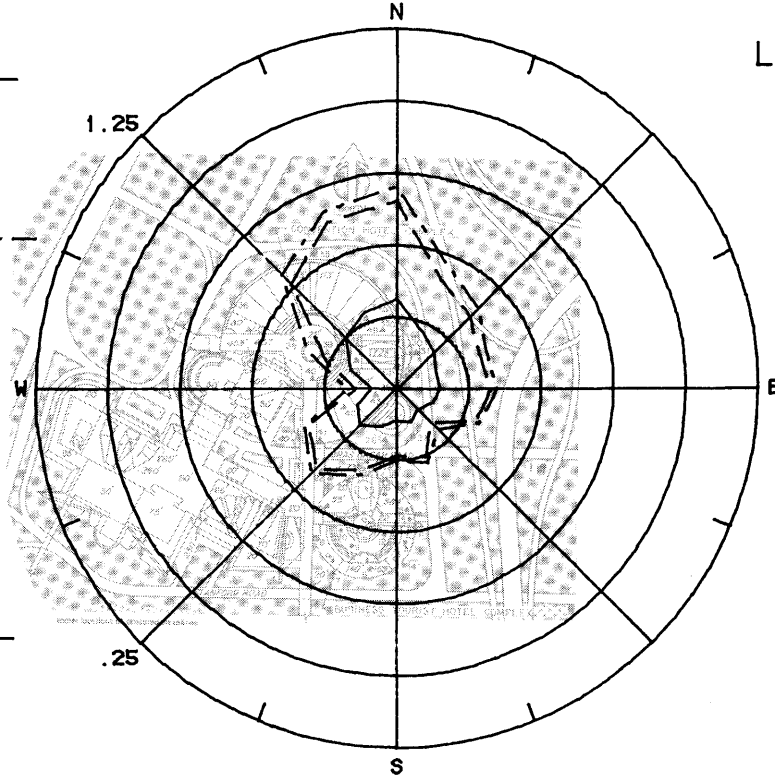
82

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

Location 28

$\frac{U_{mean} + 3 \times U_{rms}}{U_{inf}}$ - - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div



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

Location 29

$\frac{U_{mean} + 3 \times U_{rms}}{U_{inf}}$ - - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div

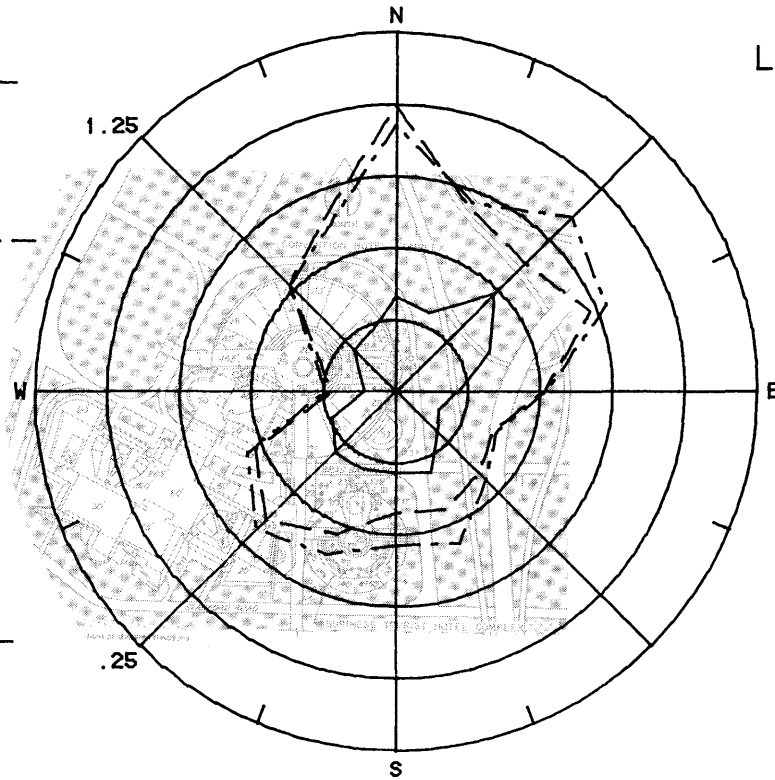


Figure 110. Mean Velocities and Turbulence Intensities at Pedestrian Locations 28 and 29

RAHARDJA CENTER,
CONVENTION HOTEL COMPLEX

83

$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

1.25

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

U_{inf}

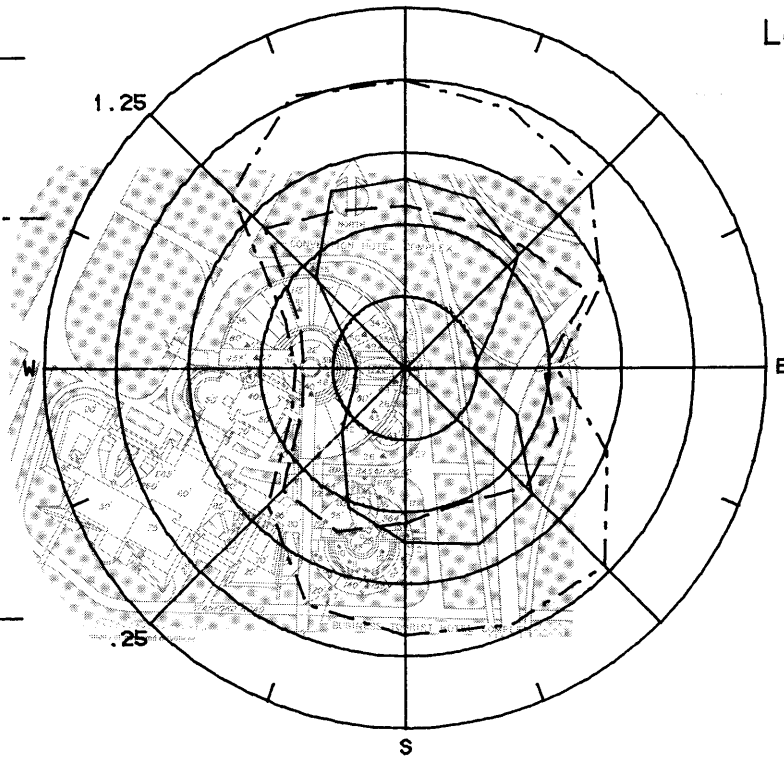
.25/Div

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

U_{inf}

.25

.05/Div



Location 30

$\frac{U_{mean}}{U_{inf}}$ ———

U_{inf}

1.25

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

U_{inf}

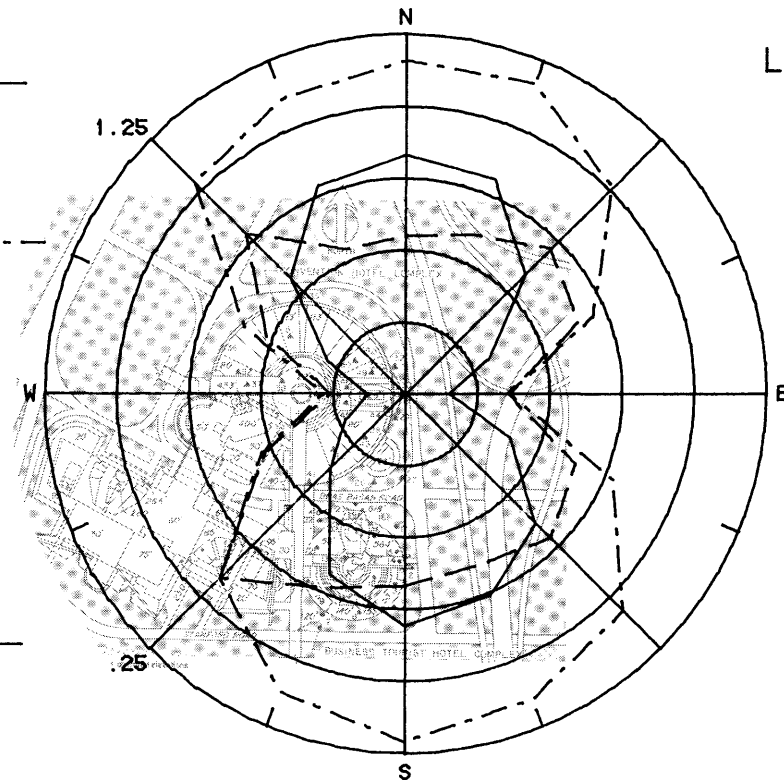
.25/Div

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

U_{inf}

.25

.05/Div



Location 31

Figure 11p. Mean Velocities and Turbulence Intensities at Pedestrian Locations 30 and 31

RAHARDJA CENTER,
CONVENTION HOTEL COMPLEX

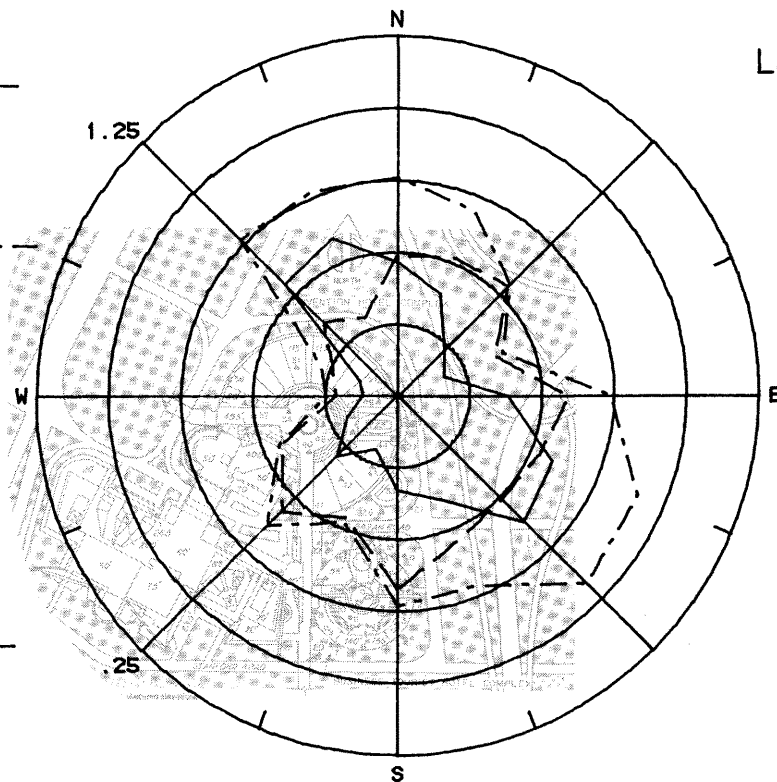
84

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

Location 32

$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div



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

Location 33

$\frac{U_{mean} + 3 \cdot U_{rms}}{U_{inf}}$ - - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div

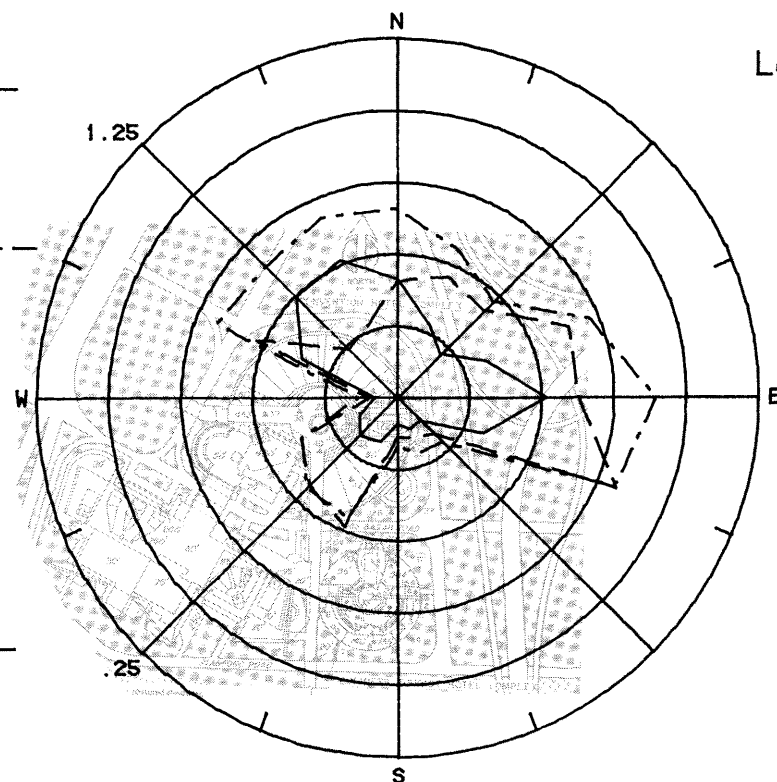


Figure IIq. Mean Velocities and Turbulence Intensities at Pedestrian Locations 32 and 33

RAHARDJA CENTER,
CONVENTION HOTEL COMPLEX

85

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

$\frac{U_{mean}}{U_{inf}}$ ———

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

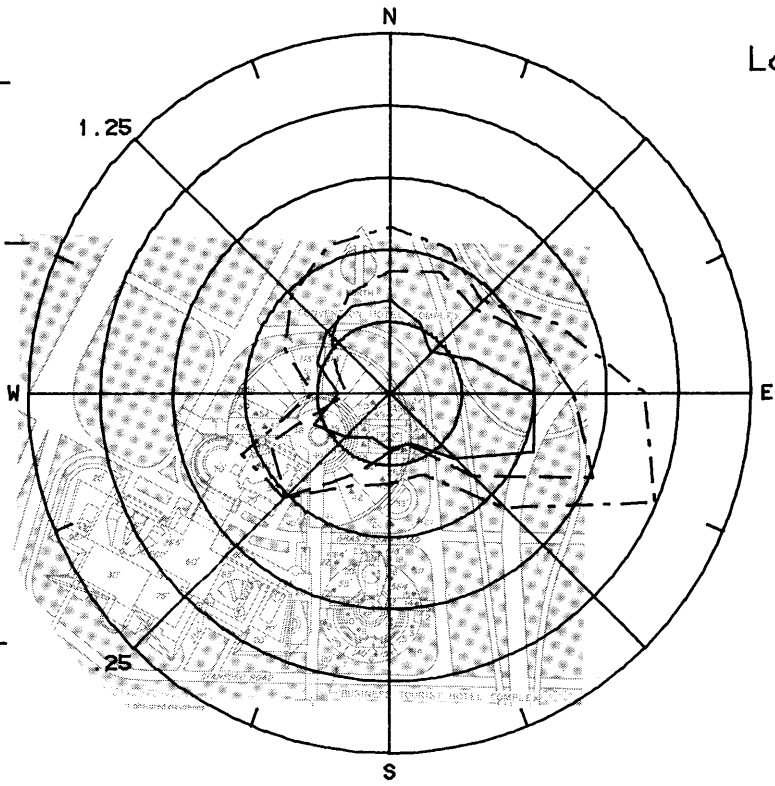
$\frac{U_{rms}}{U_{inf}}$ - - - - -

$\frac{U_{mean}}{U_{inf}}$ ———

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

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

Location 34



Location 35

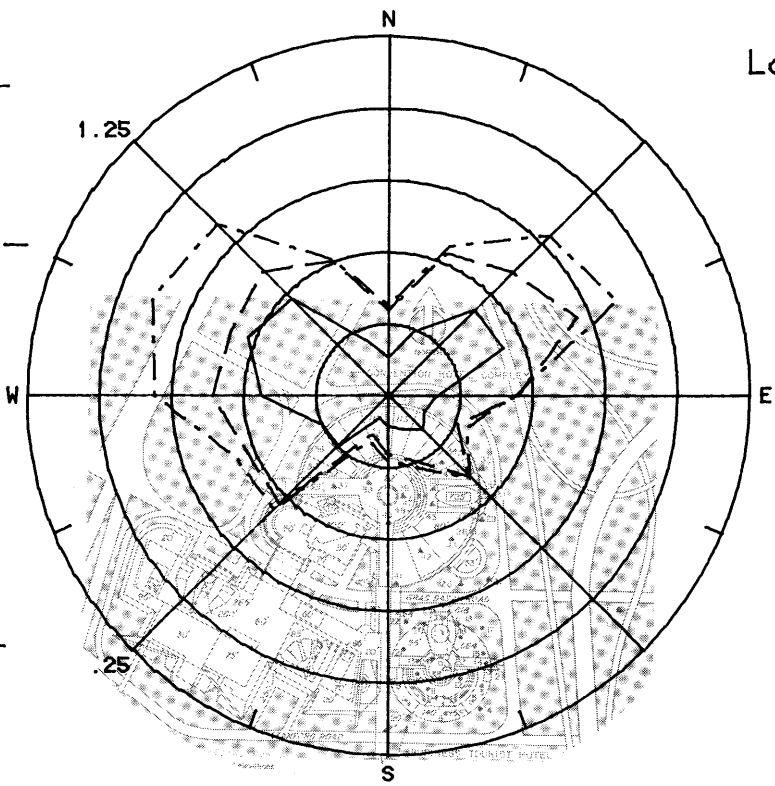


Figure 11r. Mean Velocities and Turbulence Intensities at Pedestrian Locations 34 and 35

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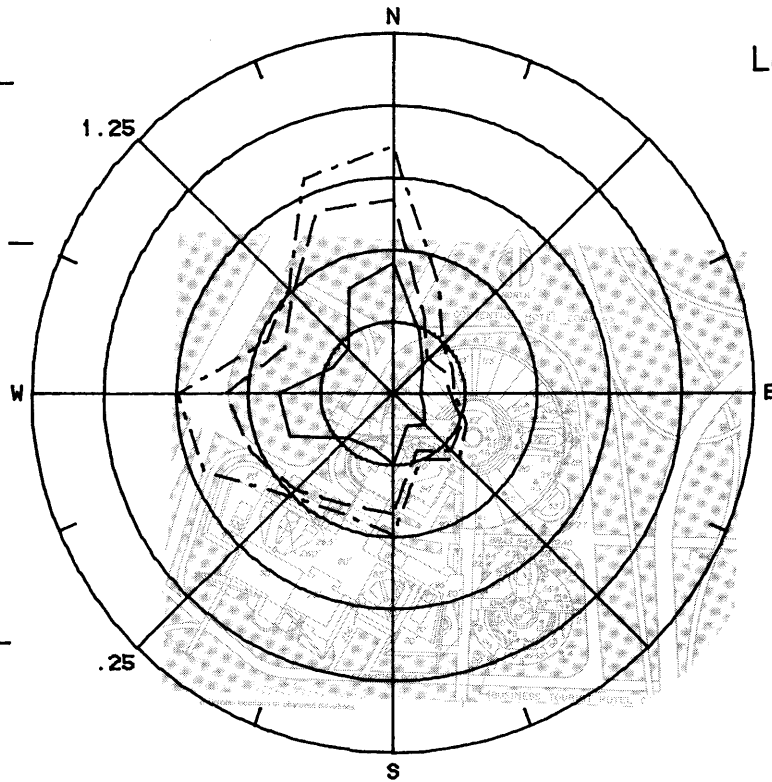
86

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

Location 36

$\frac{U_{mean} + 3 \times U_{rms}}{U_{inf}}$ - - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div



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

Location 37

$\frac{U_{mean} + 3 \times U_{rms}}{U_{inf}}$ - - - -
.25/Div

$\frac{U_{rms}}{U_{inf}}$ - - - -
.05/Div

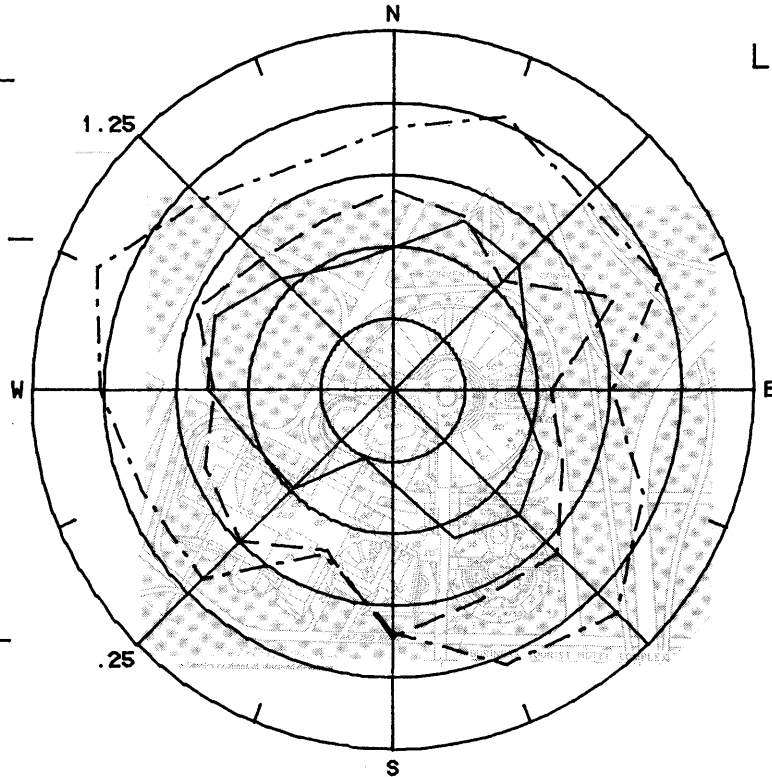


Figure 11s. Mean Velocities and Turbulence Intensities at Pedestrian Locations 36 and 37

RAHARDJA CENTER,
CONVENTION HOTEL COMPLEX

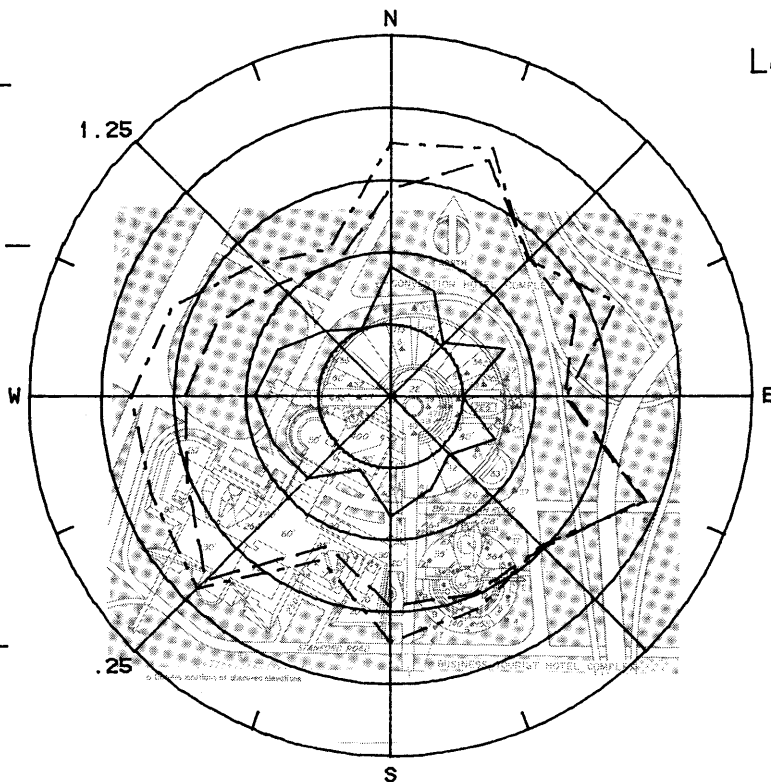
87

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

Location 38

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

.25/Div



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

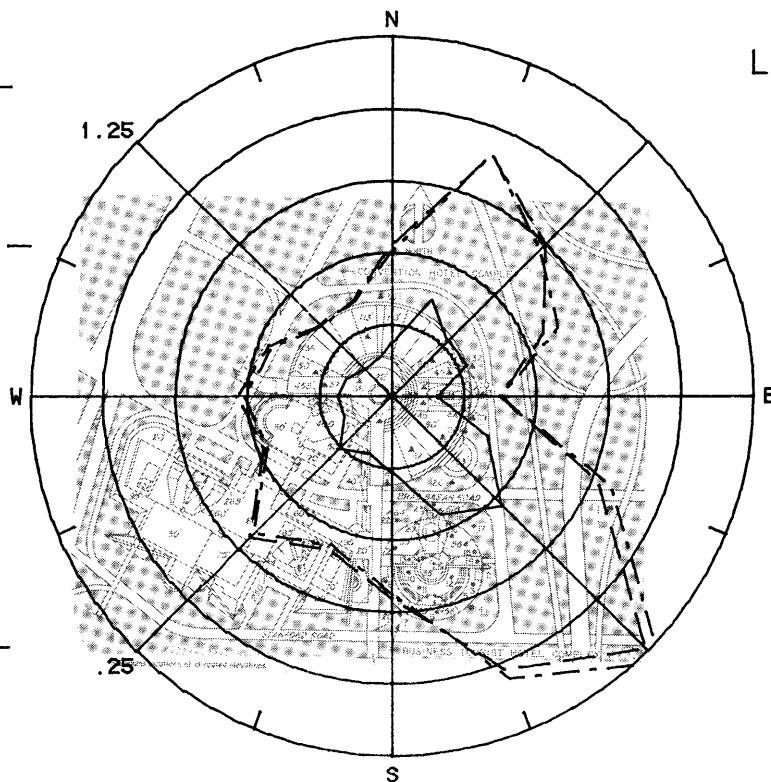
.05/Div

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

Location 39

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

.25/Div



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

.05/Div

Figure III. Mean Velocities and Turbulence Intensities at Pedestrian Locations 38 and 39

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CONVENTION HOTEL COMPLEX

88

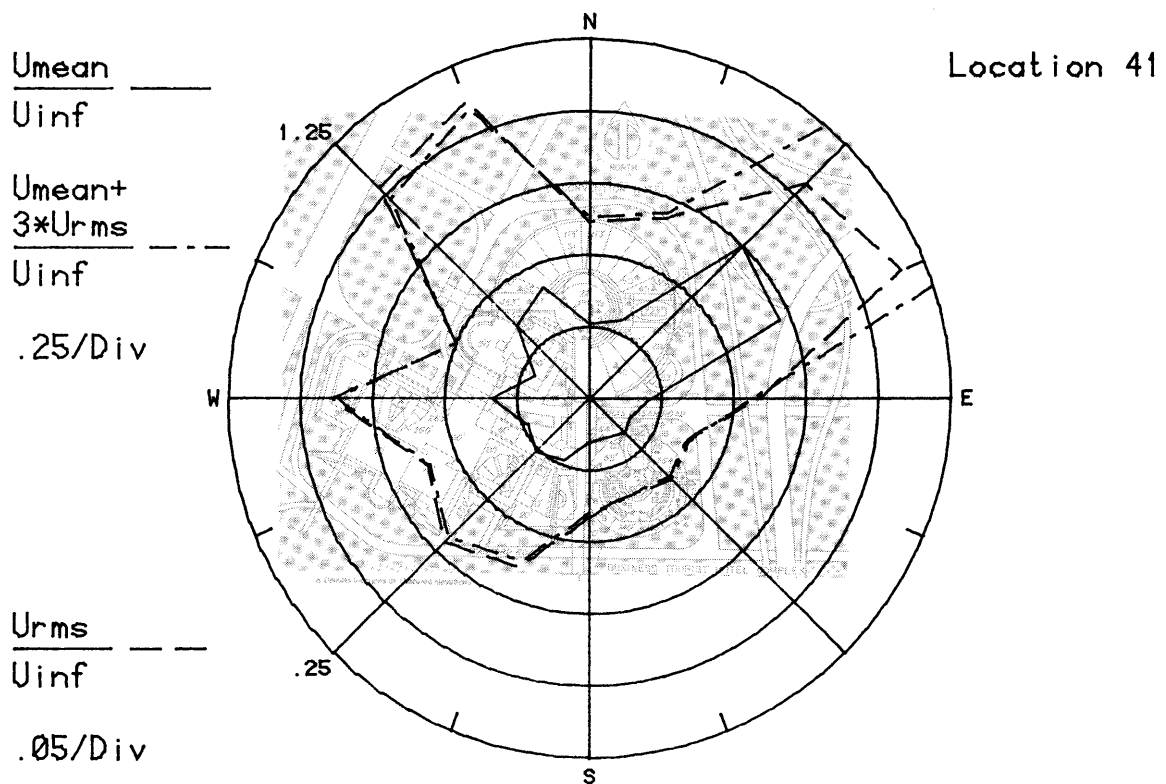
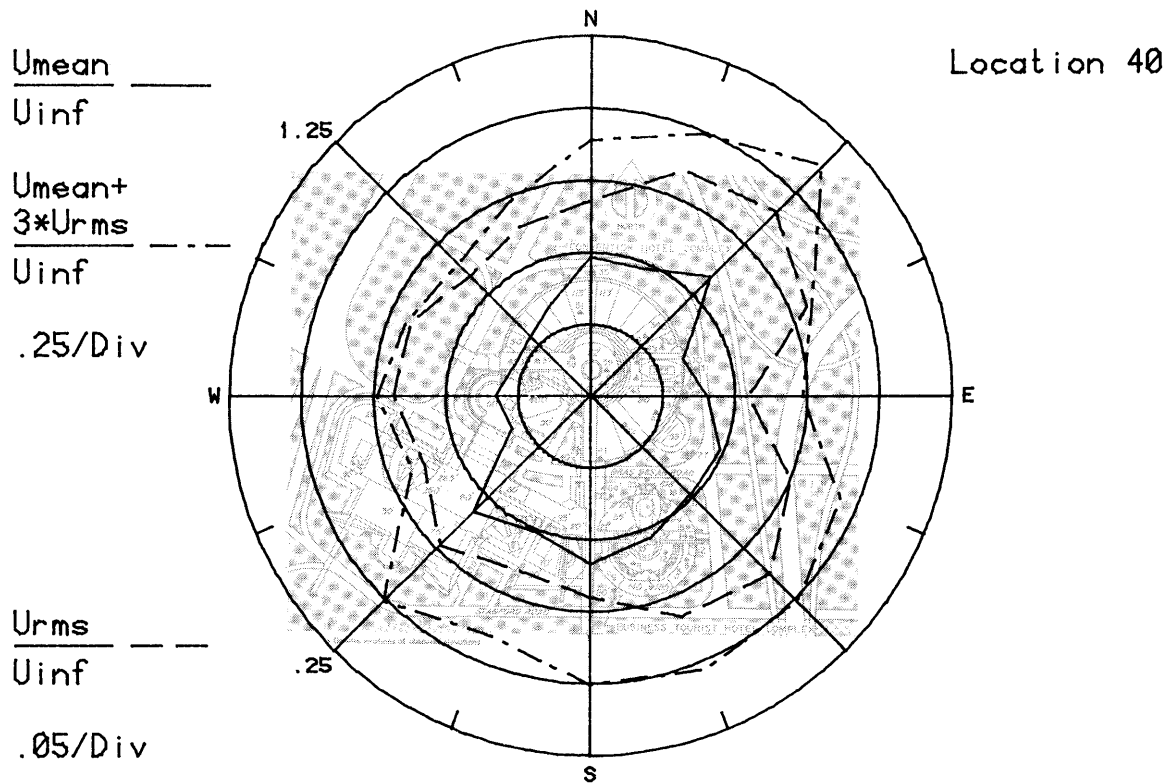


Figure IIu. Mean Velocities and Turbulence Intensities at Pedestrian Locations 40 and 41

RAHARDJA CENTER,
CONVENTION HOTEL COMPLEX

89

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

U_{inf}

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

U_{inf}

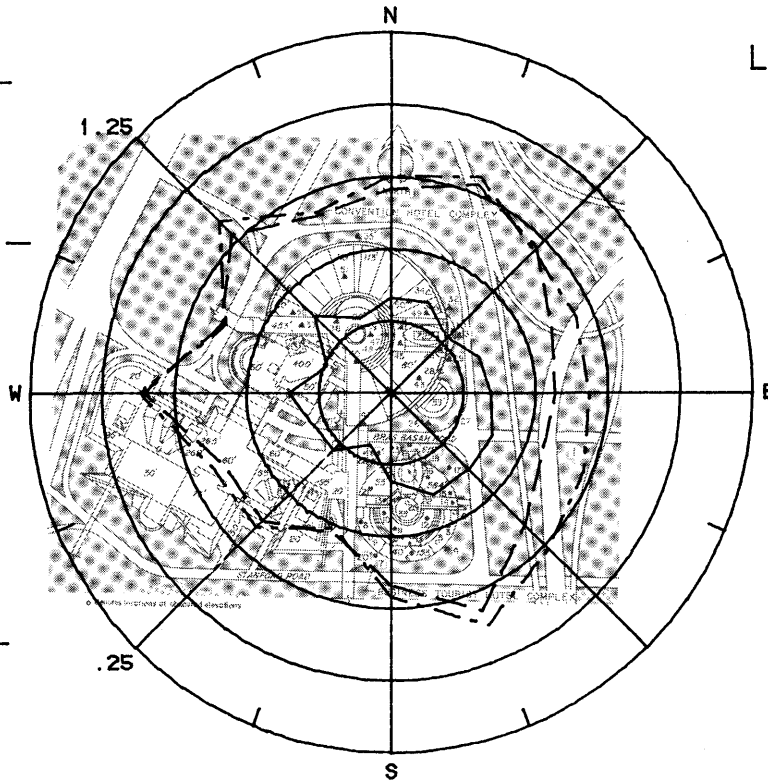
.25/Div

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

U_{inf}

.05/Div

Location 42



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

U_{inf}

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

U_{inf}

.25/Div

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

U_{inf}

.05/Div

Location 43

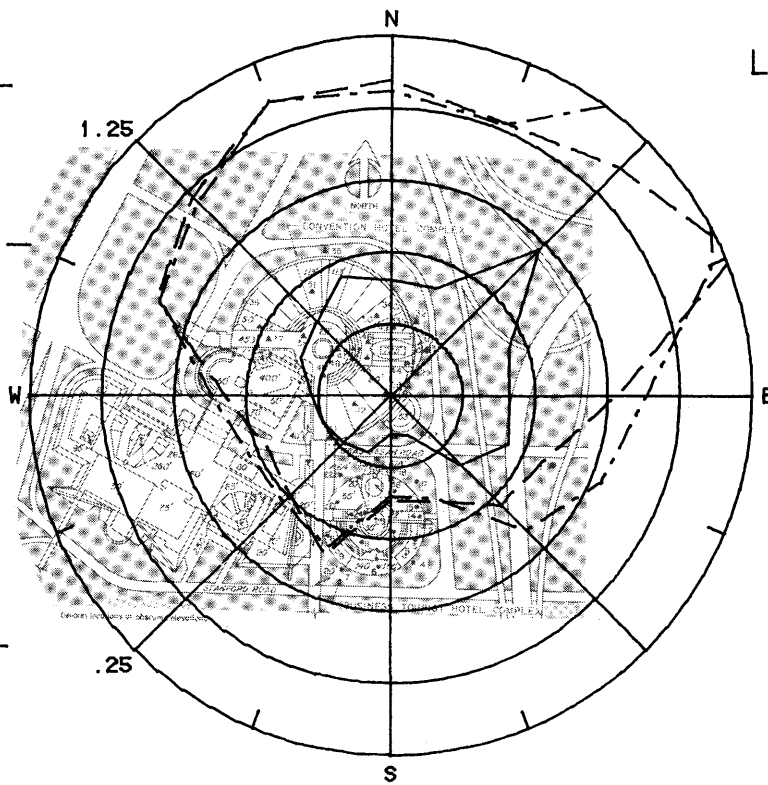


Figure IIv. Mean Velocities and Turbulence Intensities at Pedestrian Locations 42 and 43

RAHARDJA CENTER,
CONVENTION HOTEL COMPLEX

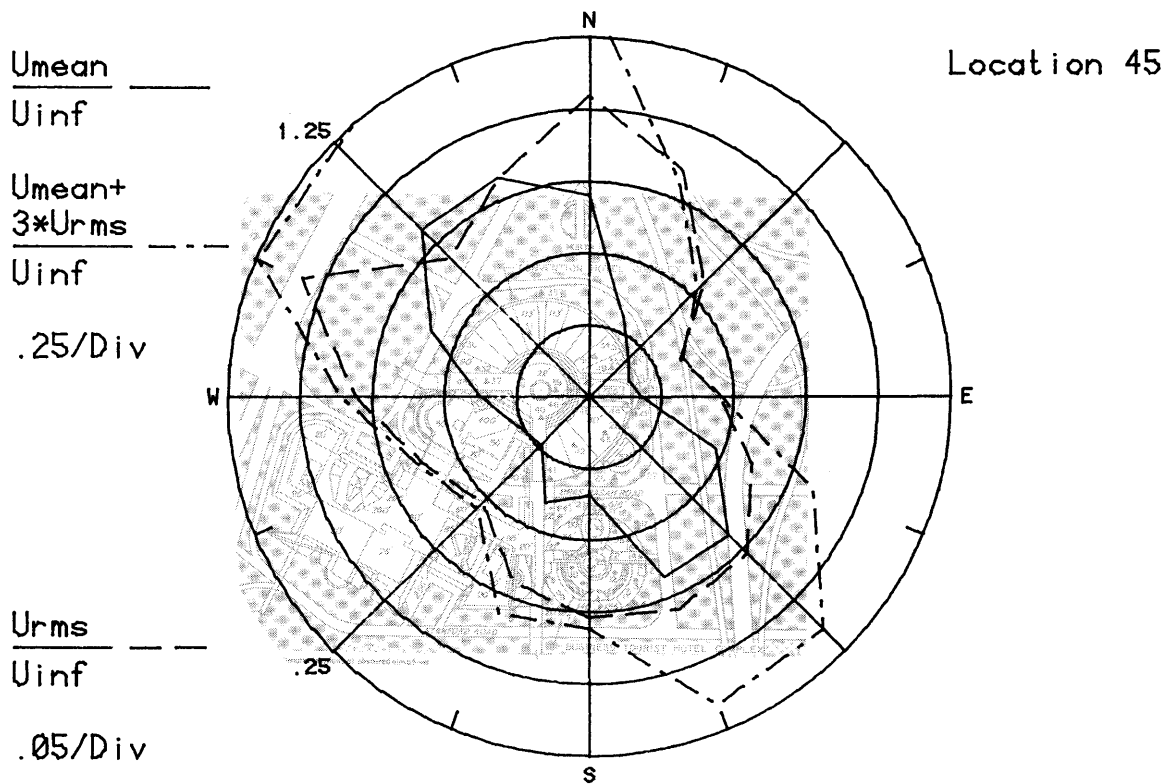
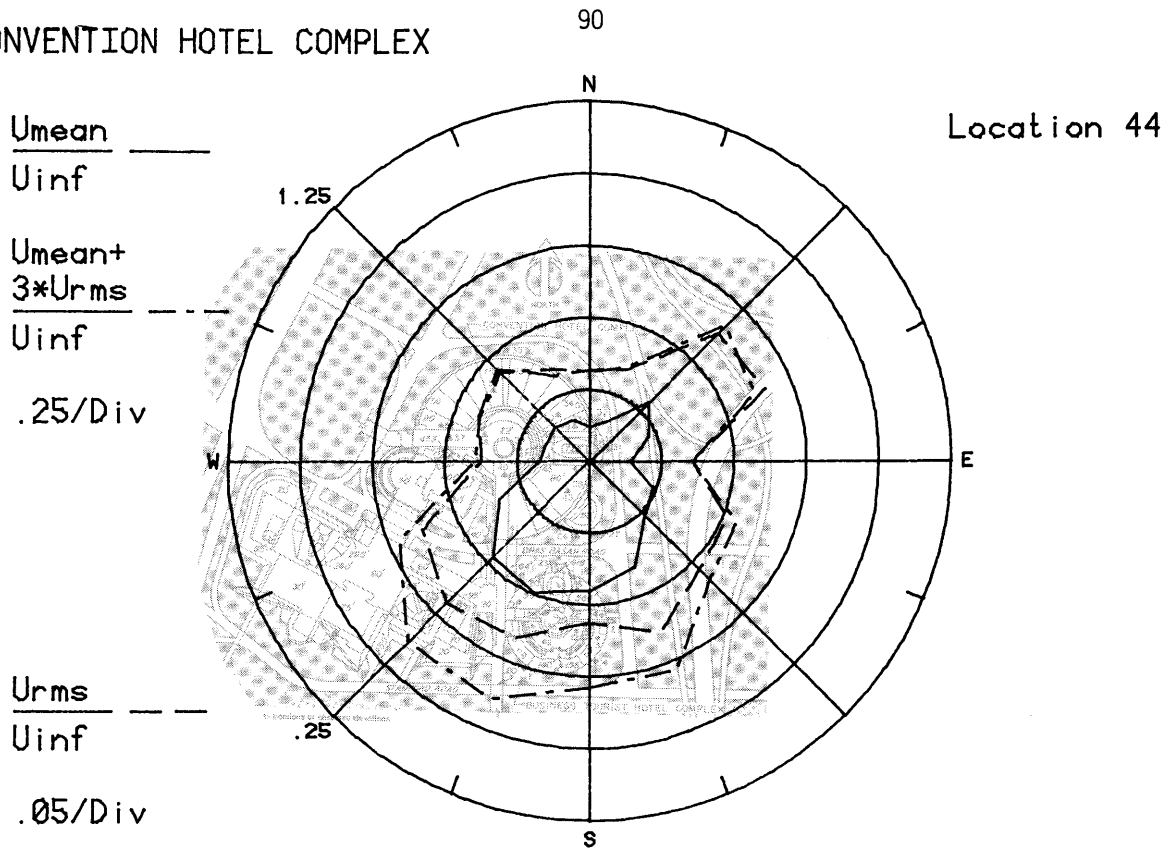


Figure 11w. Mean Velocities and Turbulence Intensities at Pedestrian Locations 44 and 45

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CONVENTION HOTEL COMPLEX

91

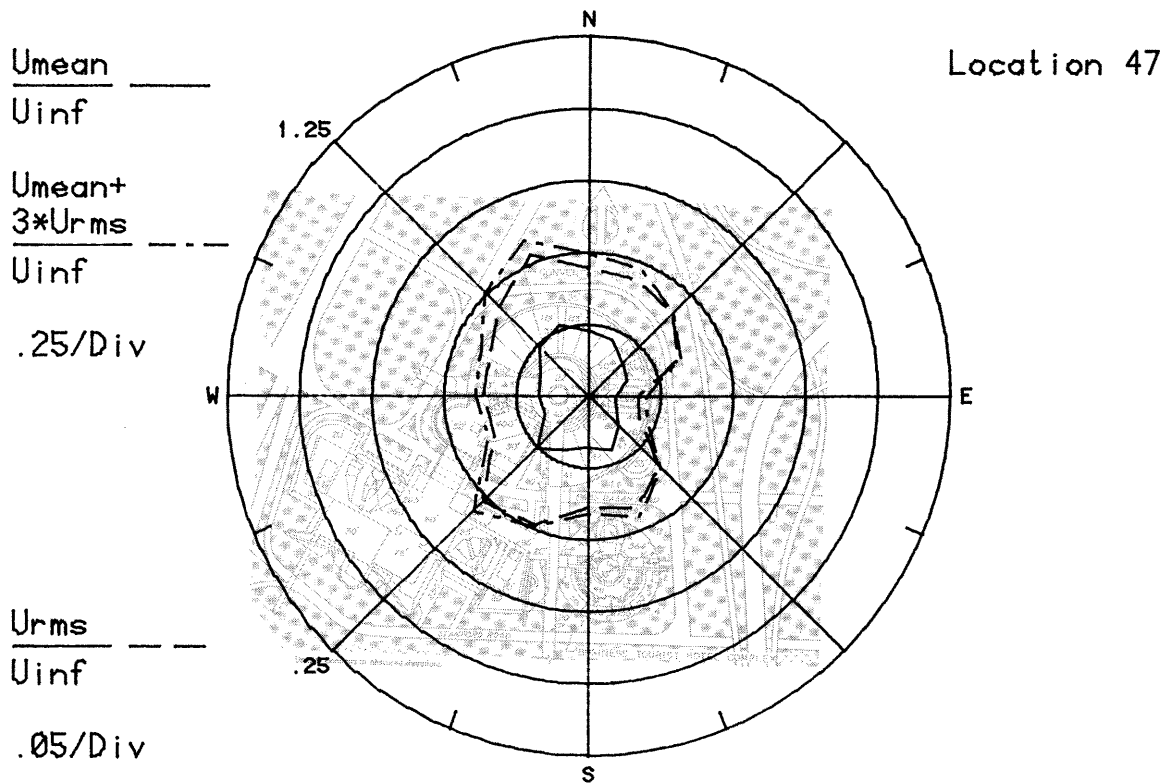
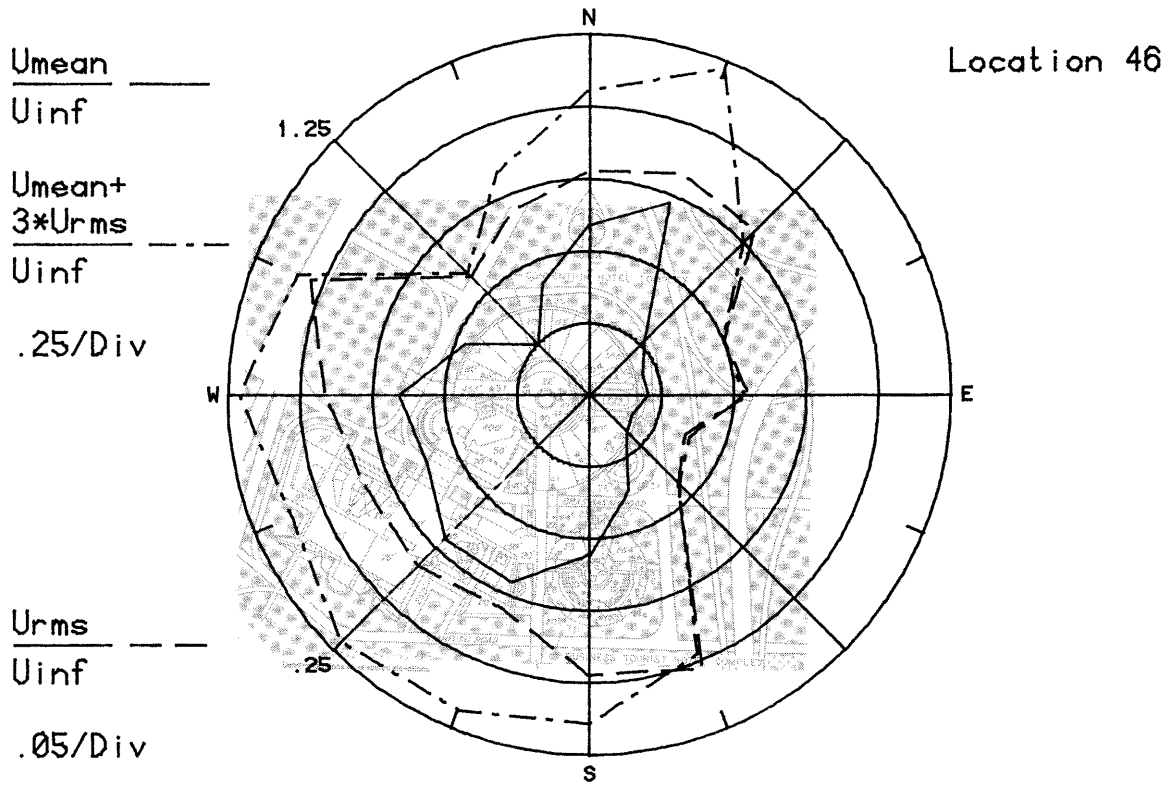


Figure IIx. Mean Velocities and Turbulence Intensities at Pedestrian Locations 46 and 47

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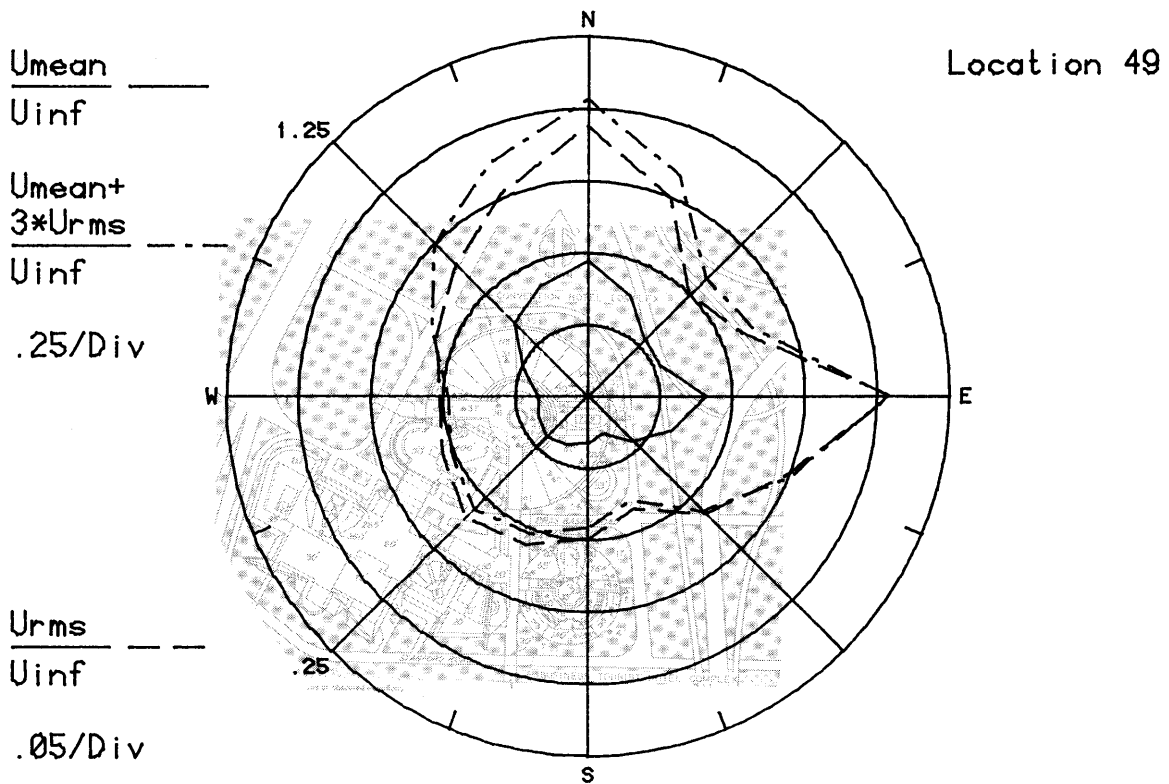
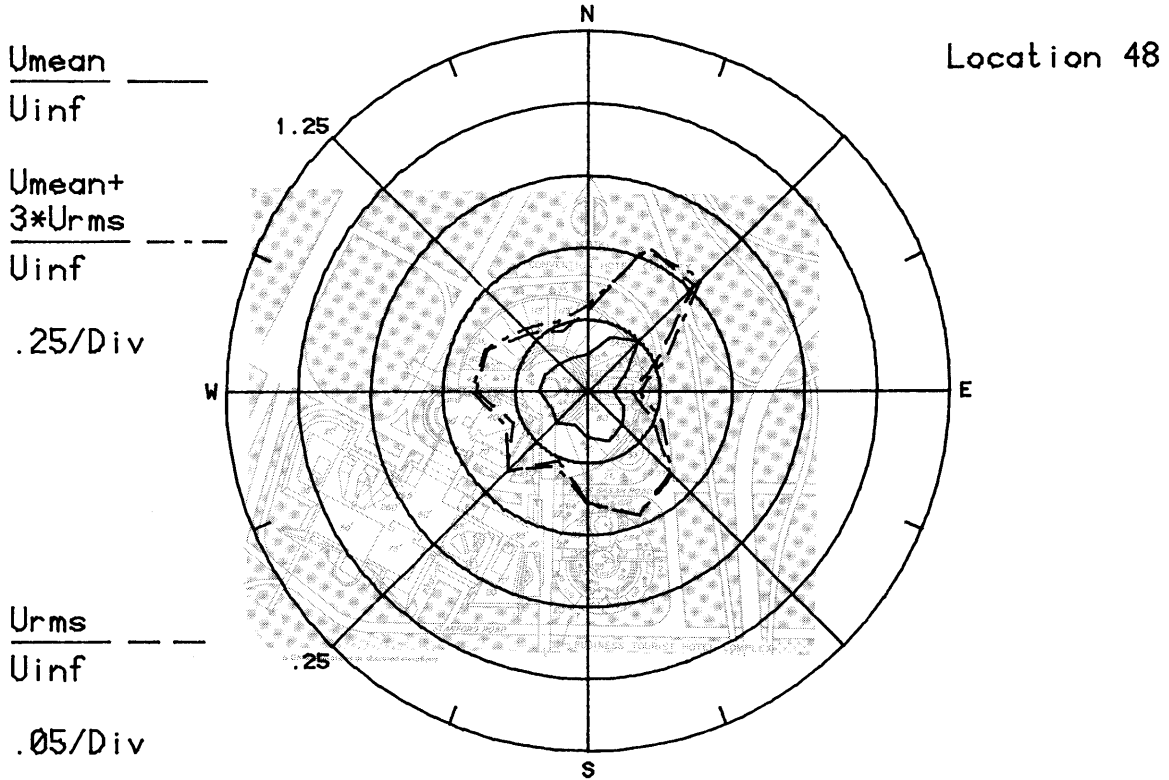


Figure 11y. Mean Velocities and Turbulence Intensities at Pedestrian Locations 48 and 49

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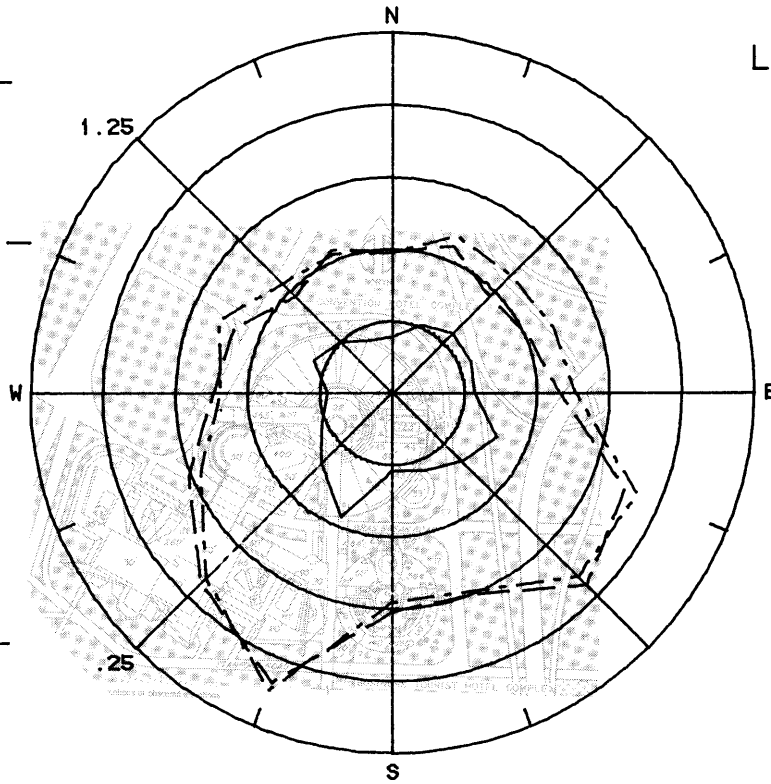
$\frac{U_{mean}}{U_{inf}}$ ———

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

.25/Div

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

.05/Div



Location 50

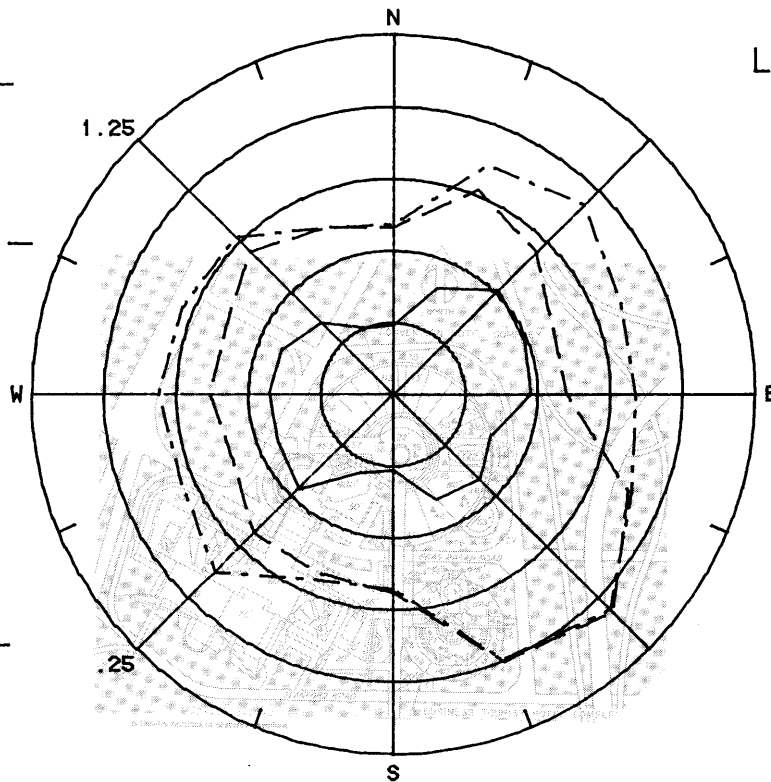
$\frac{U_{mean}}{U_{inf}}$ ———

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

.25/Div

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

.05/Div



Location 51

Figure 11z. Mean Velocities and Turbulence Intensities at Pedestrian Locations 50 and 51

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Location 52

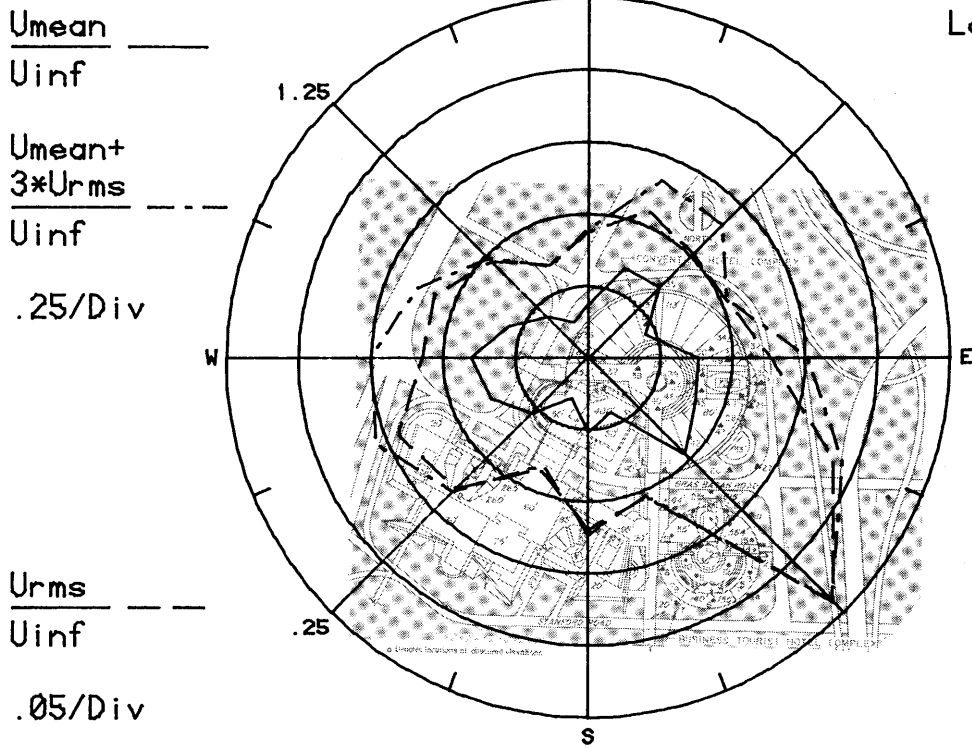


Figure IIA. Mean Velocities and Turbulence Intensities at Pedestrian Location 52

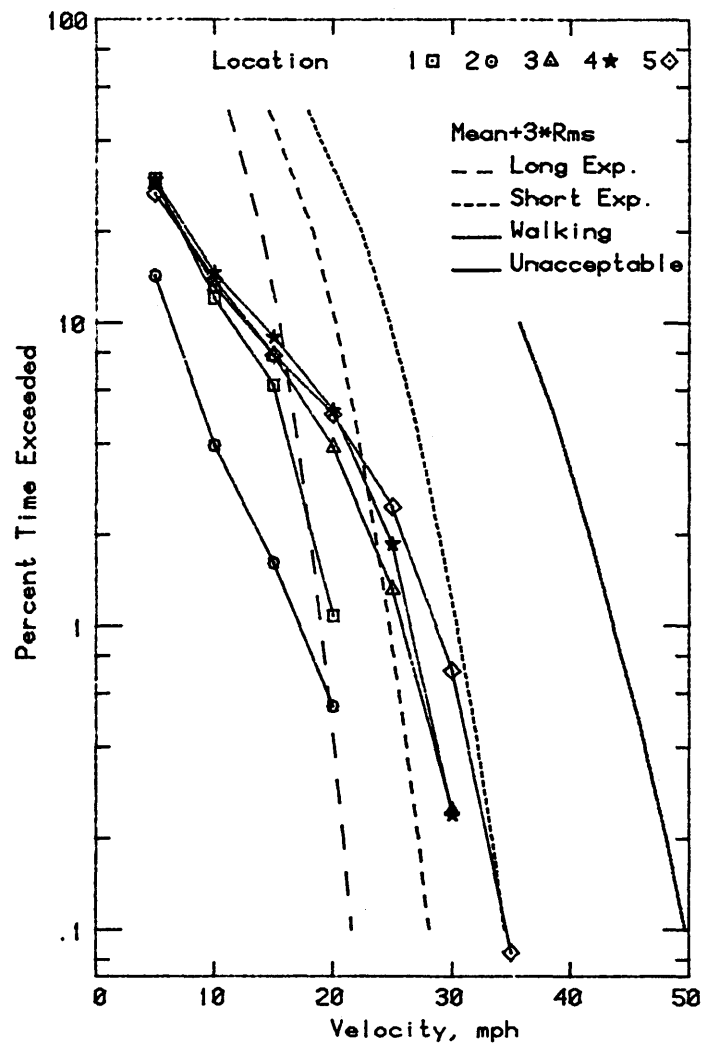
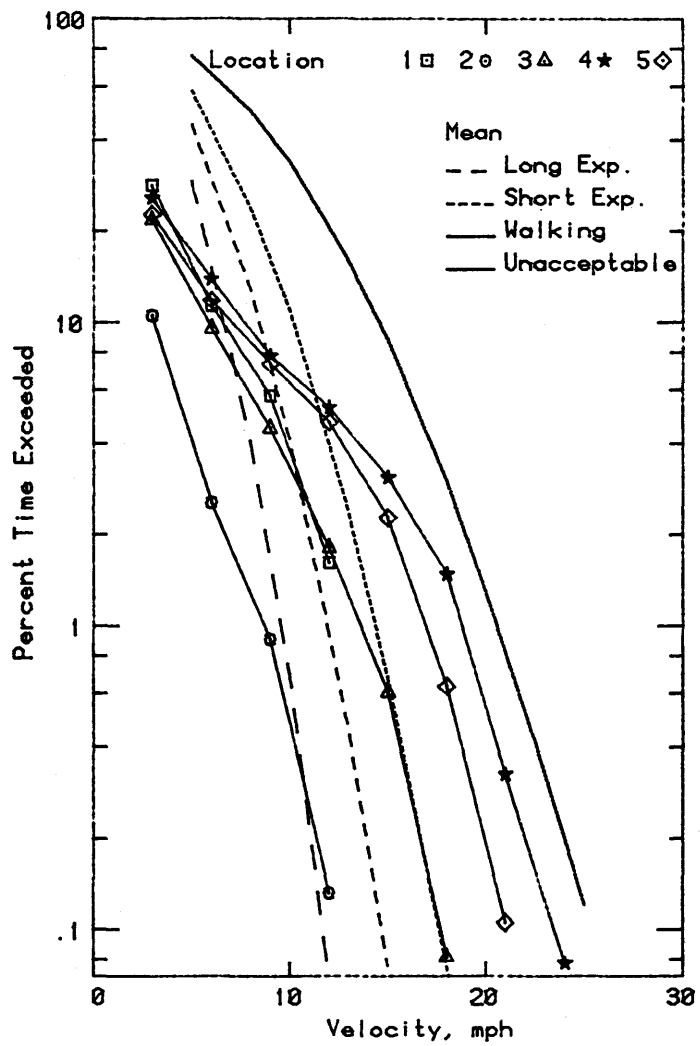


Figure 12a. Wind Velocity Probabilities for Pedestrian Locations

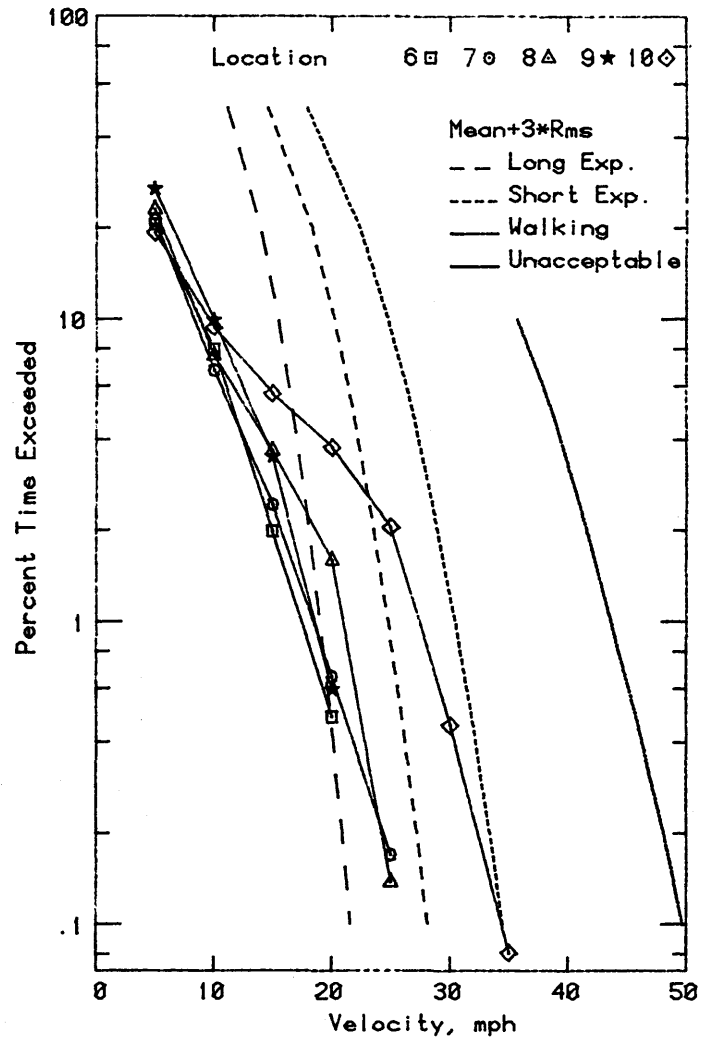
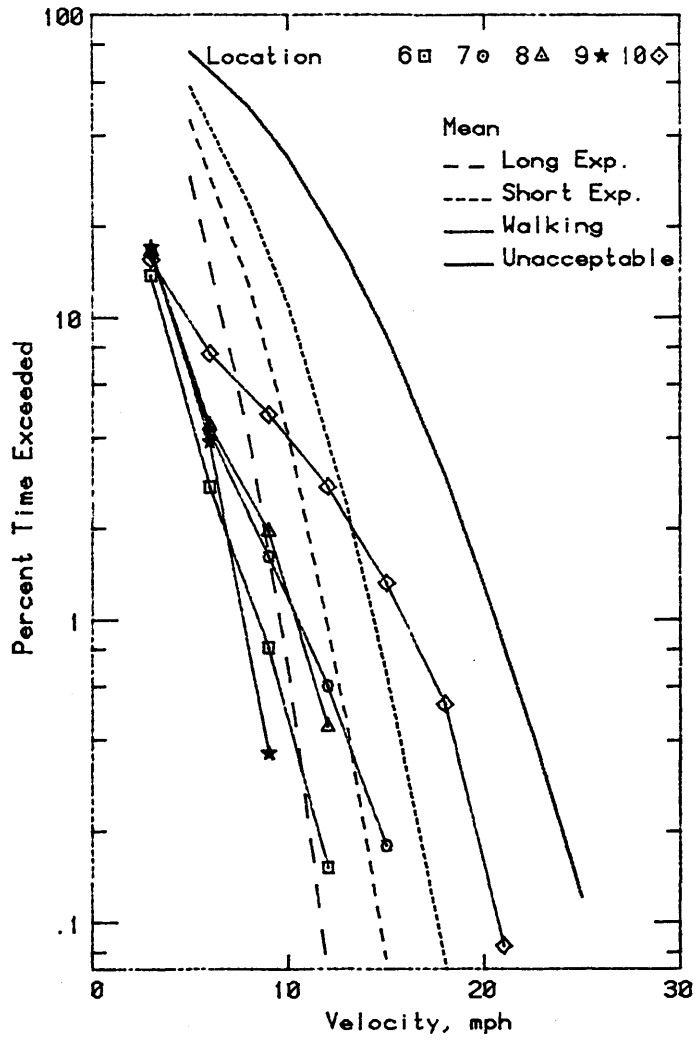


Figure 12b. Wind Velocity Probabilities for Pedestrian Locations

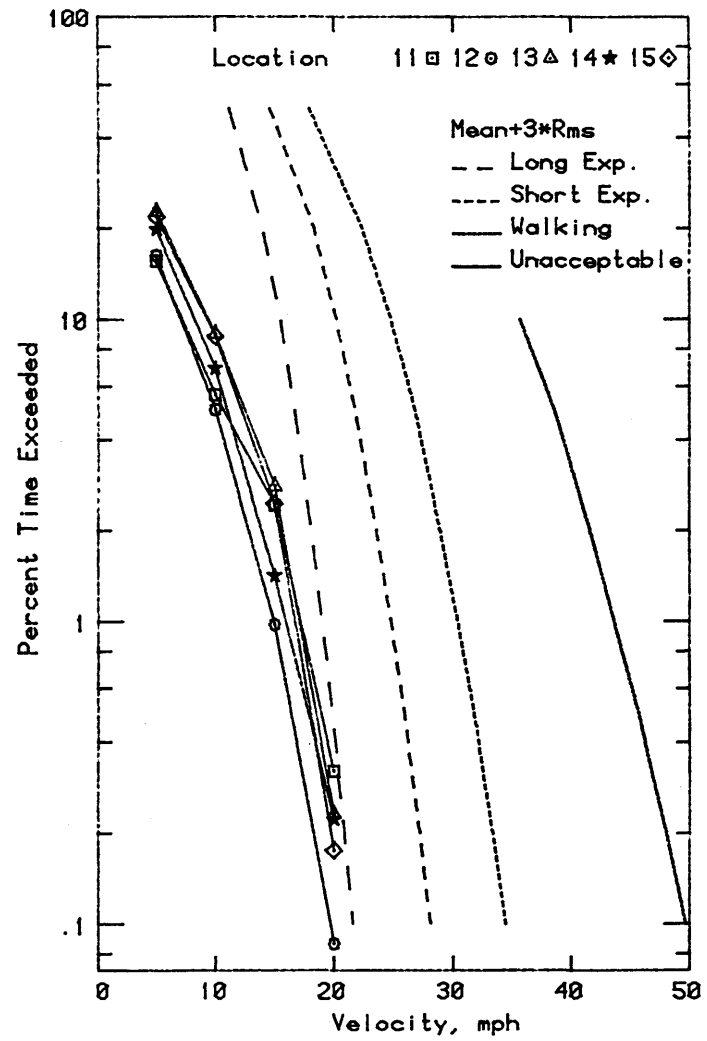
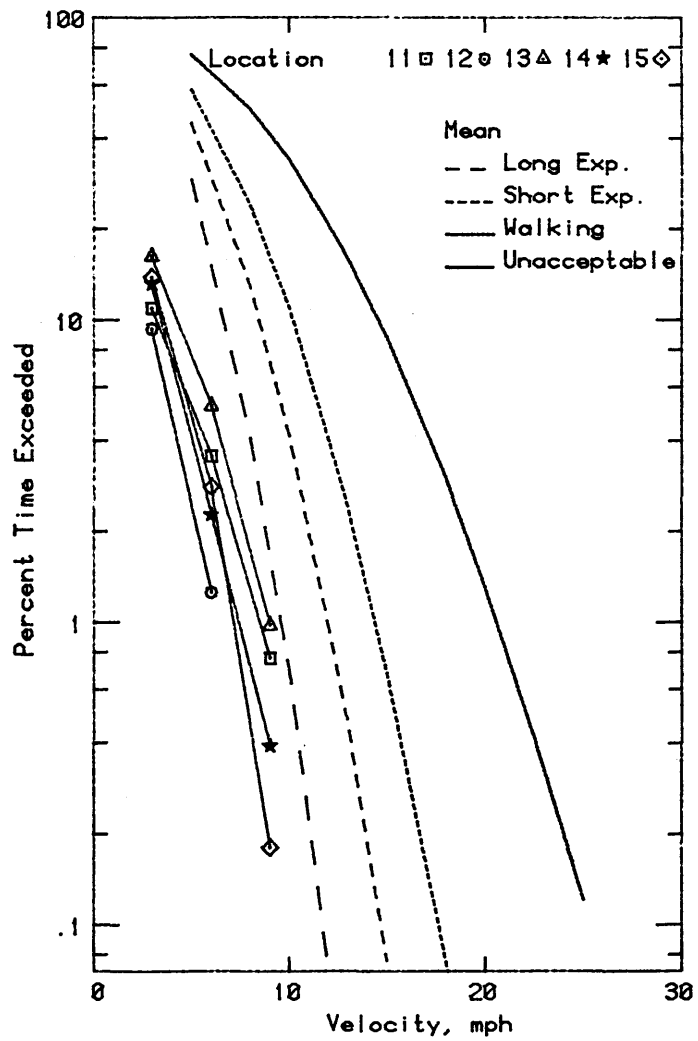


Figure 12c. Wind Velocity Probabilities for Pedestrian Locations

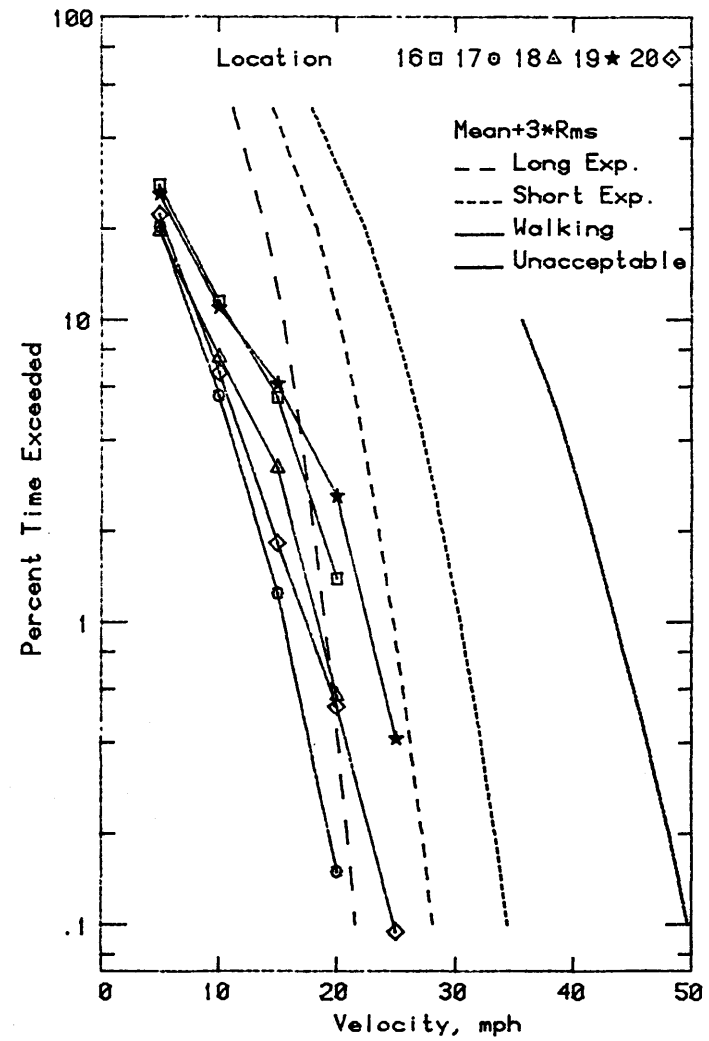
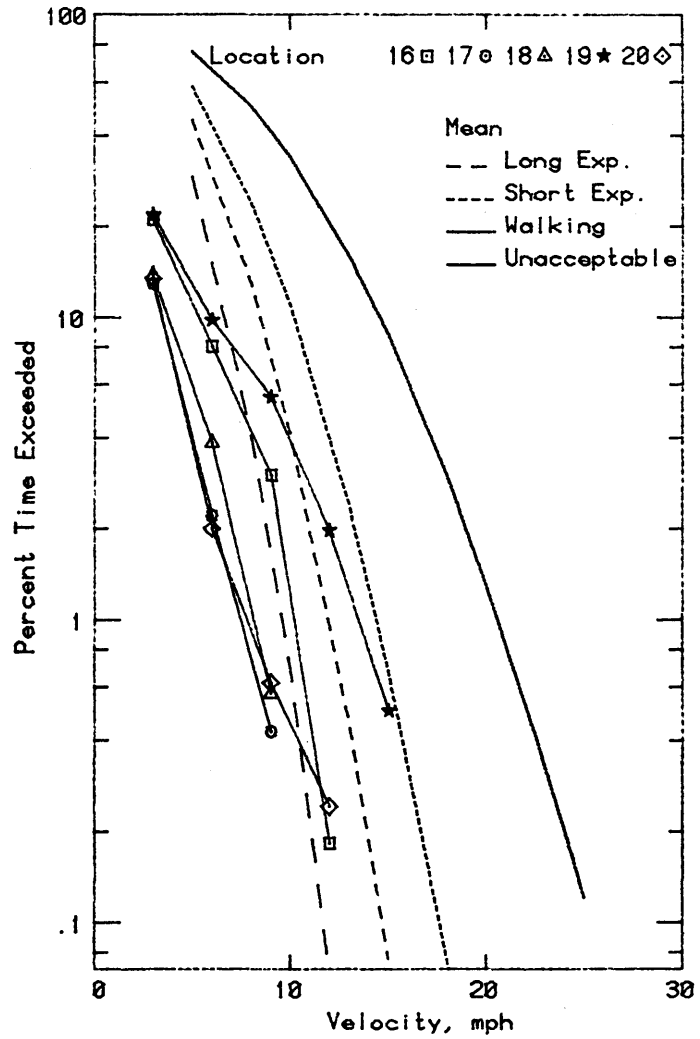


Figure 12d. Wind Velocity Probabilities for Pedestrian Locations

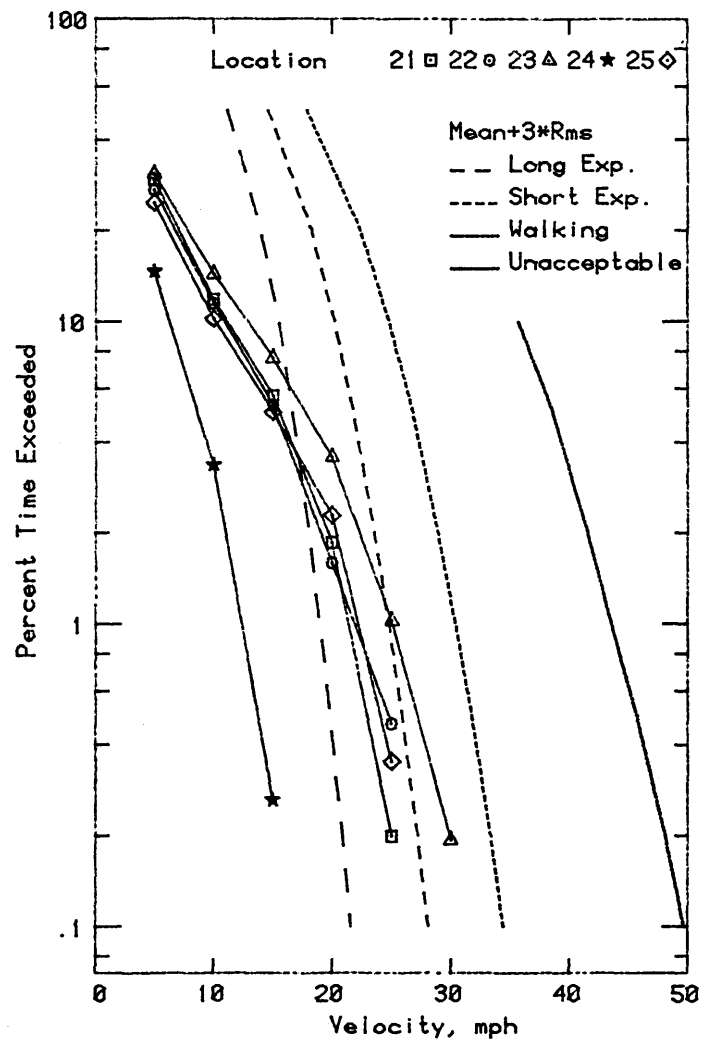
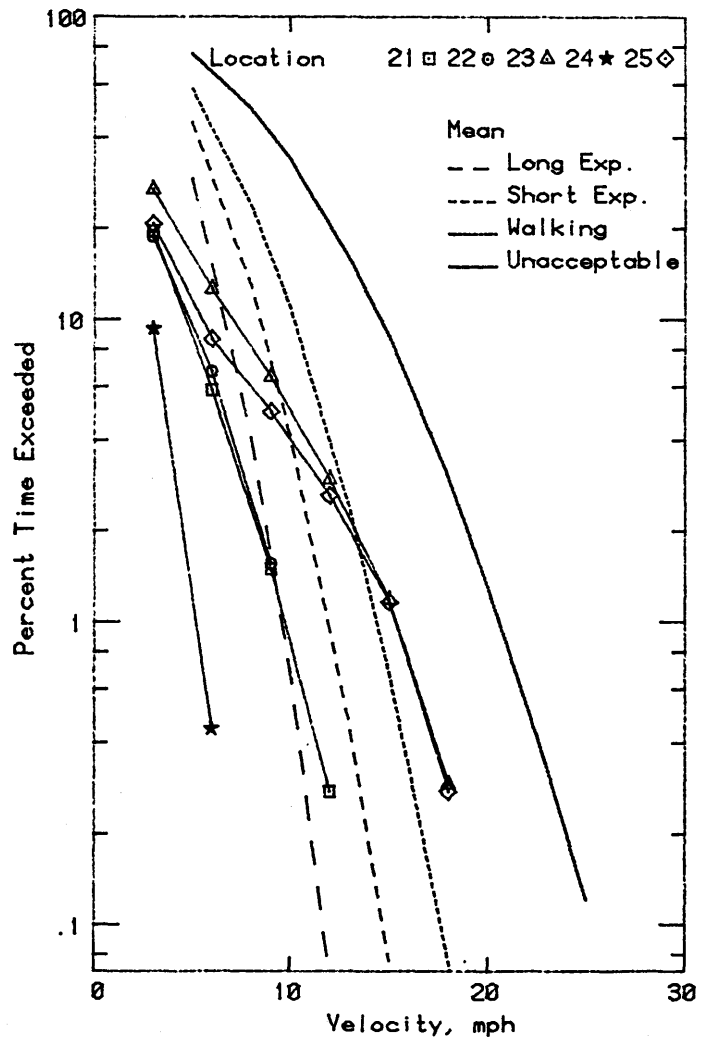


Figure 12e. Wind Velocity Probabilities for Pedestrian Locations

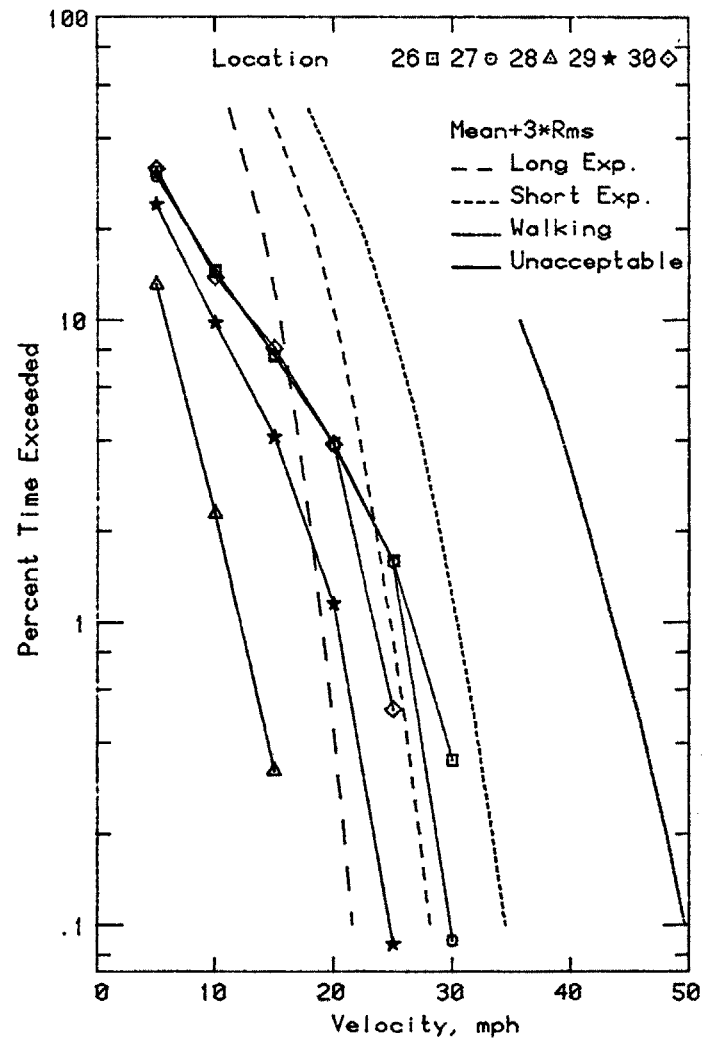
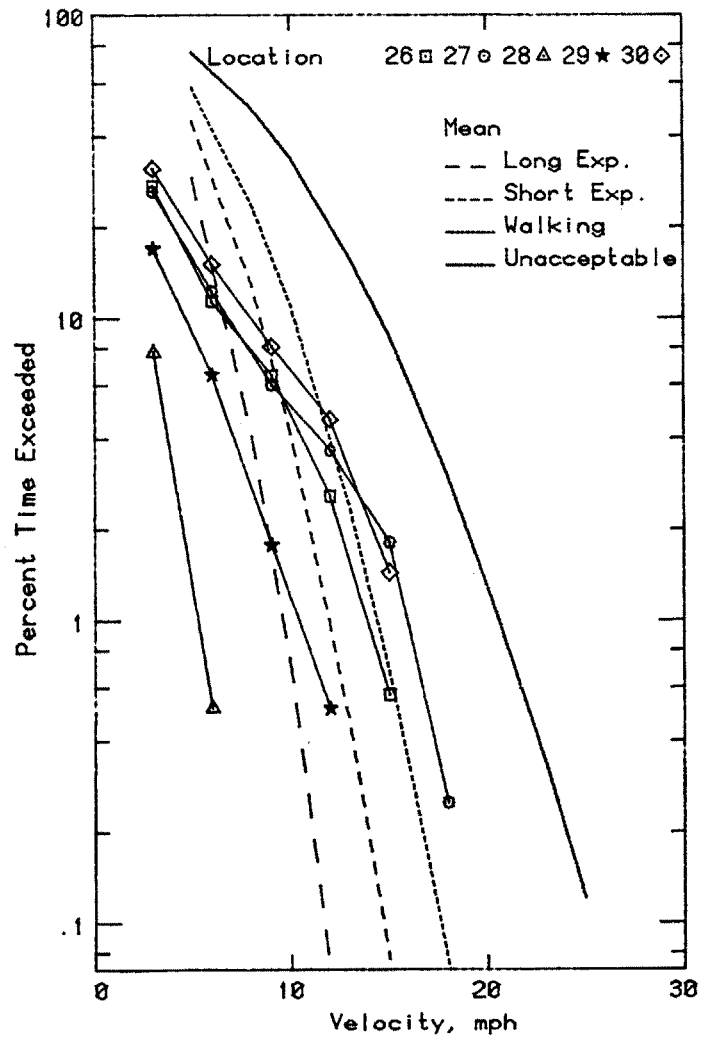


Figure 12f. Wind Velocity Probabilities for Pedestrian Locations

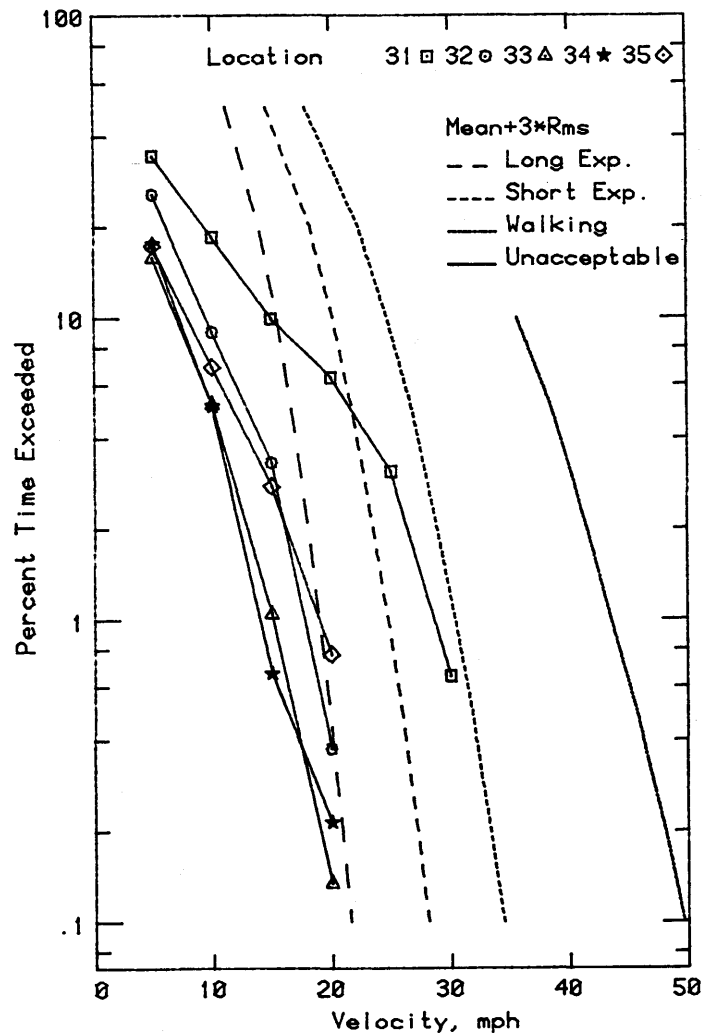
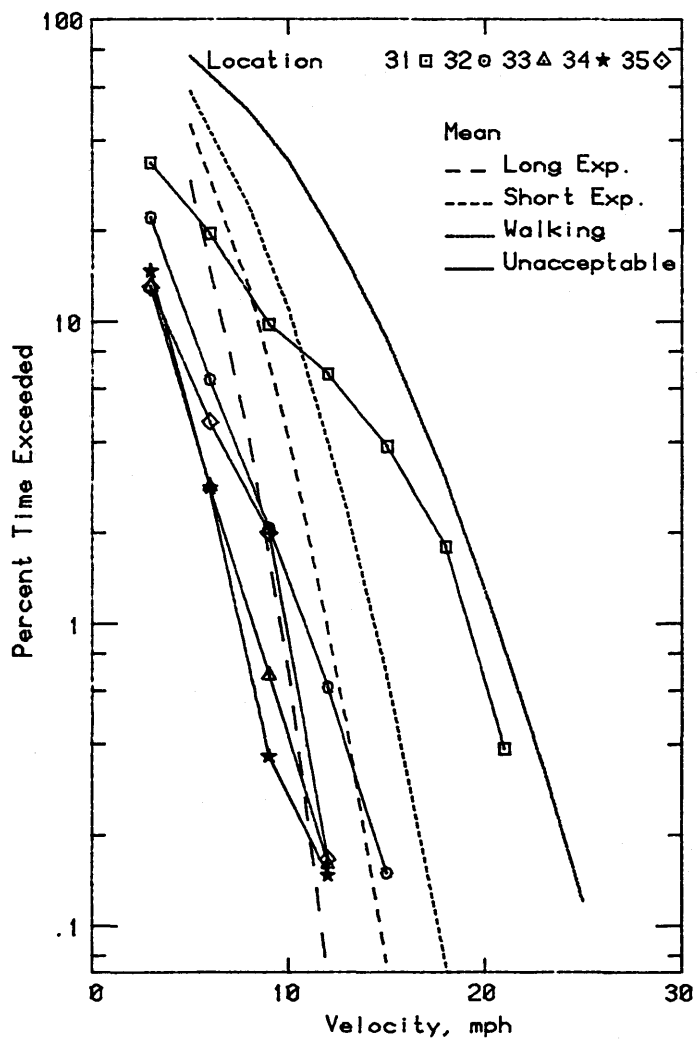


Figure 12g. Wind Velocity Probabilities for Pedestrian Locations

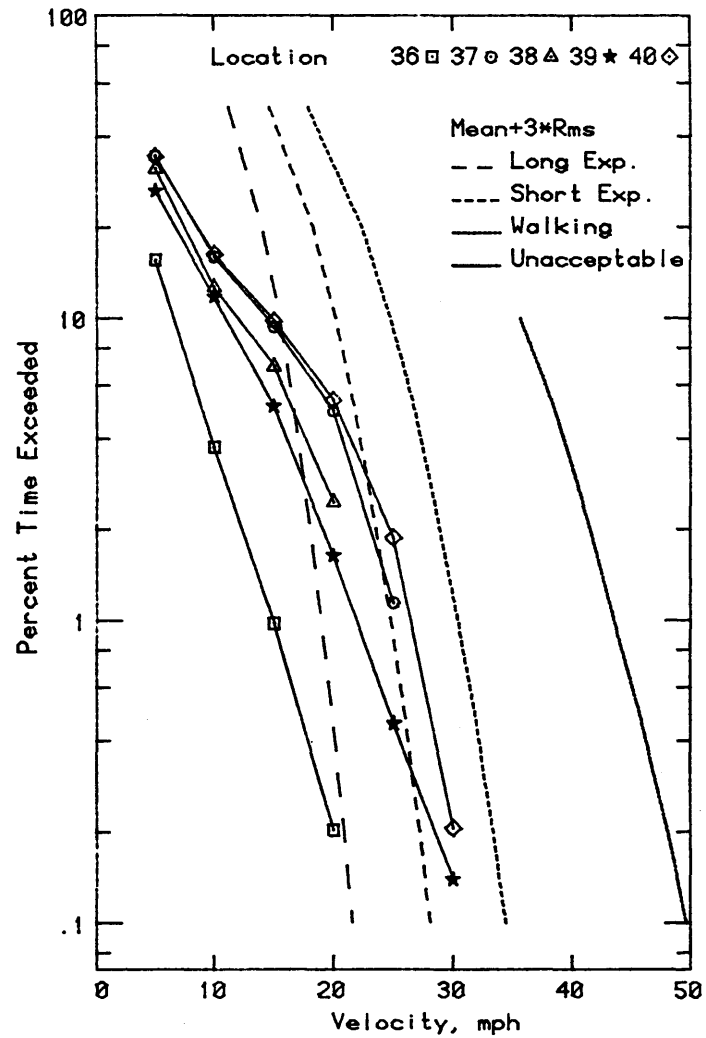
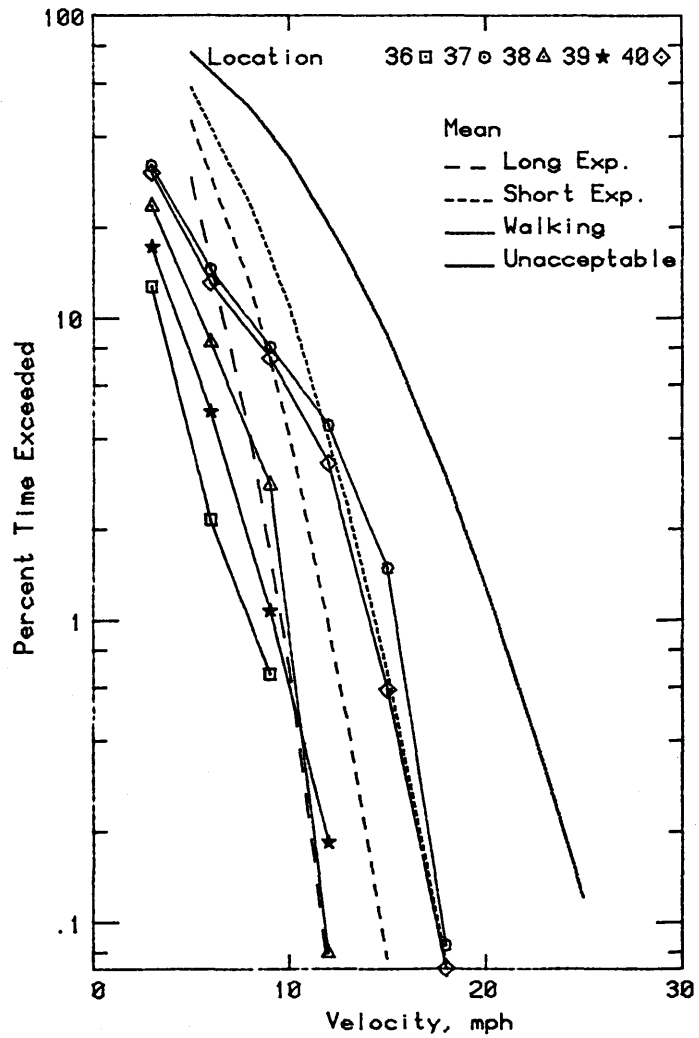


Figure 12h. Wind Velocity Probabilities for Pedestrian Locations

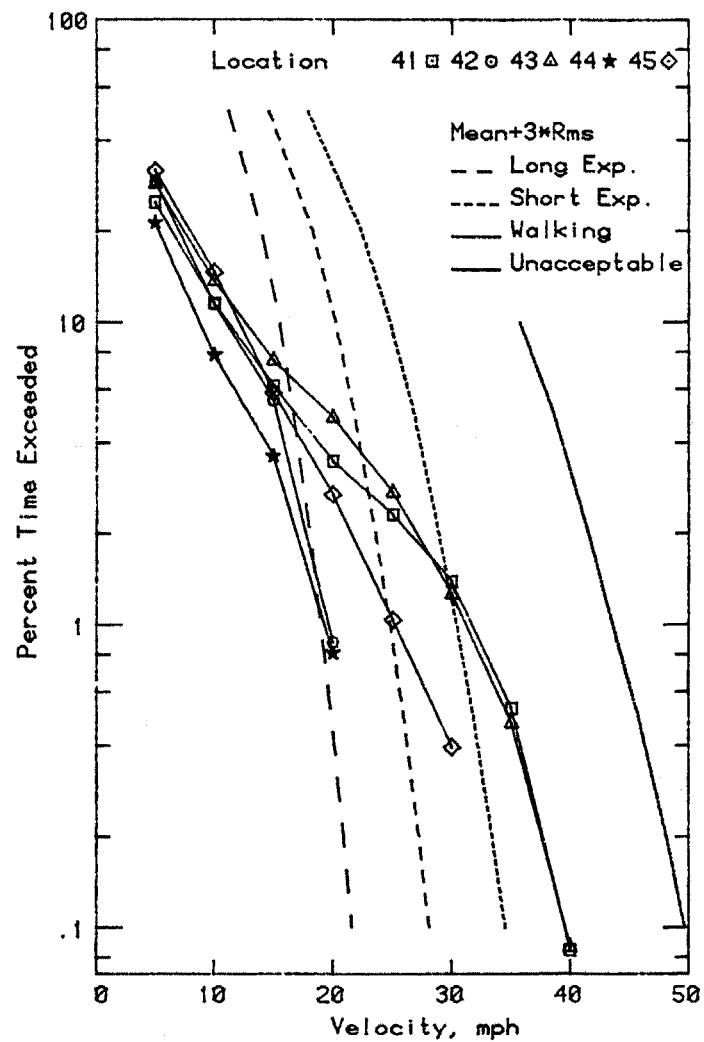
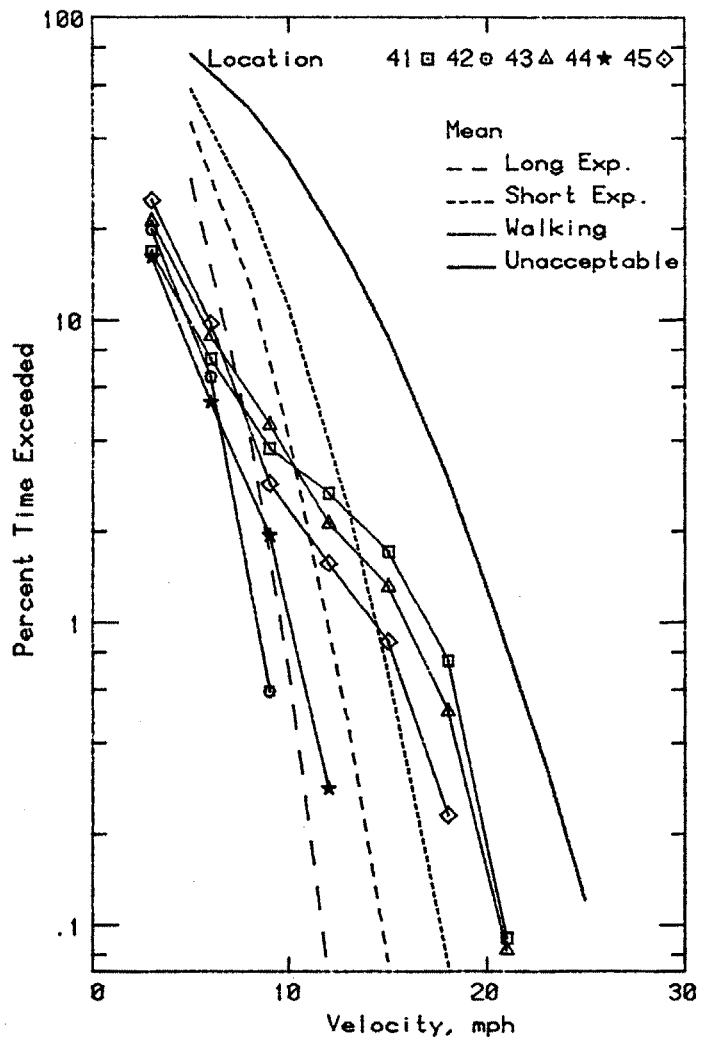


Figure 12i. Wind Velocity Probabilities for Pedestrian Locations

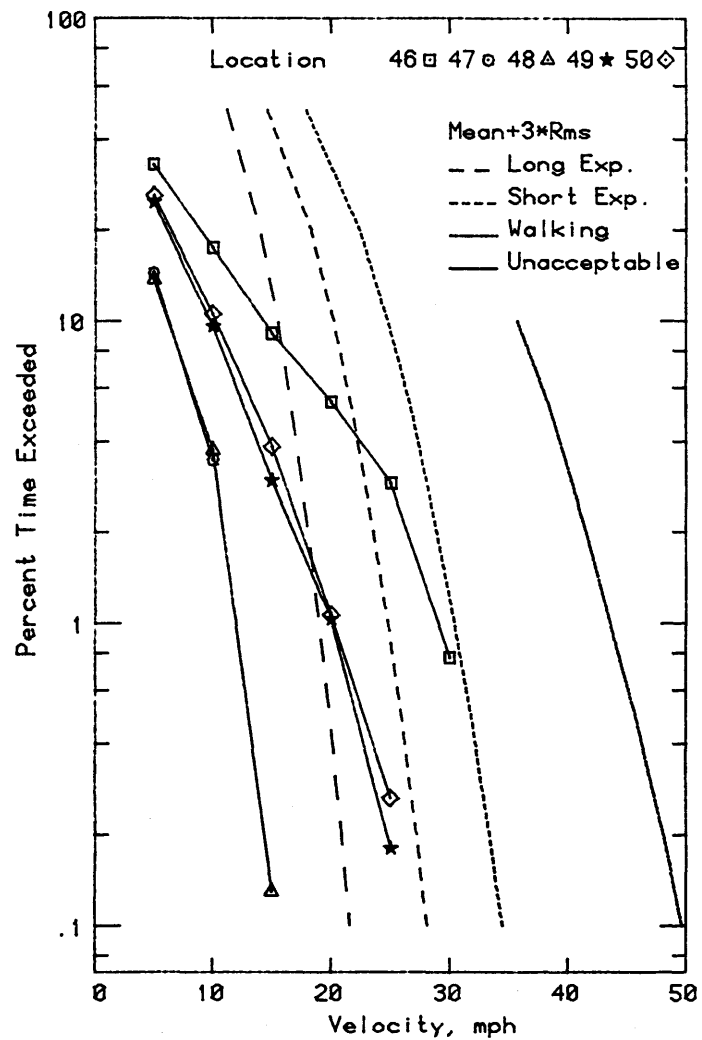
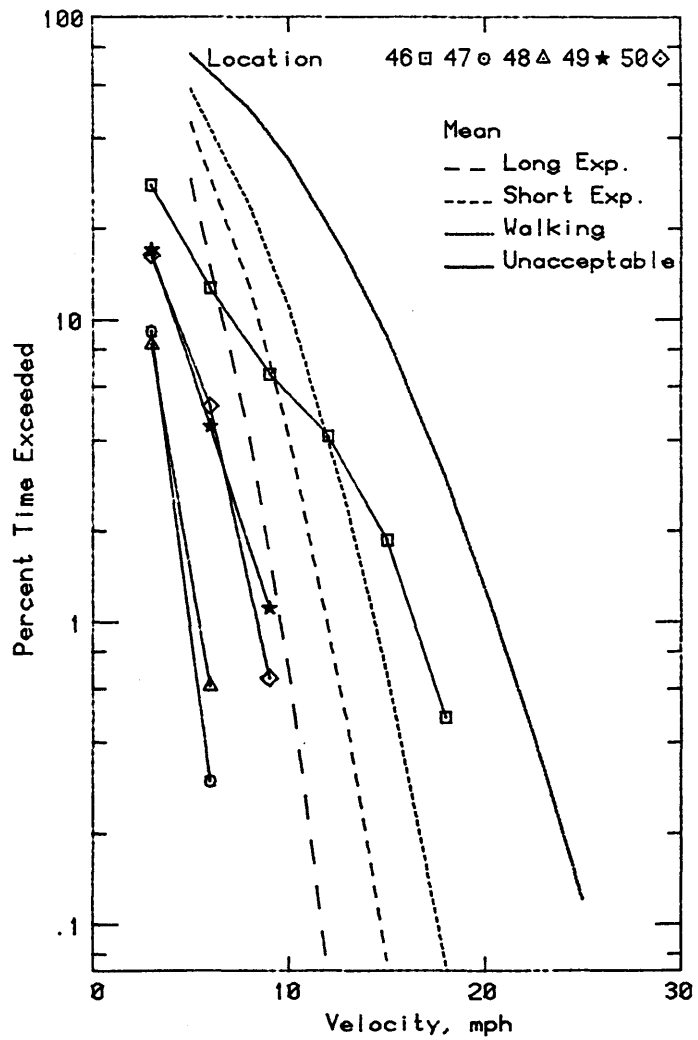


Figure 12j. Wind Velocity Probabilities for Pedestrian Locations

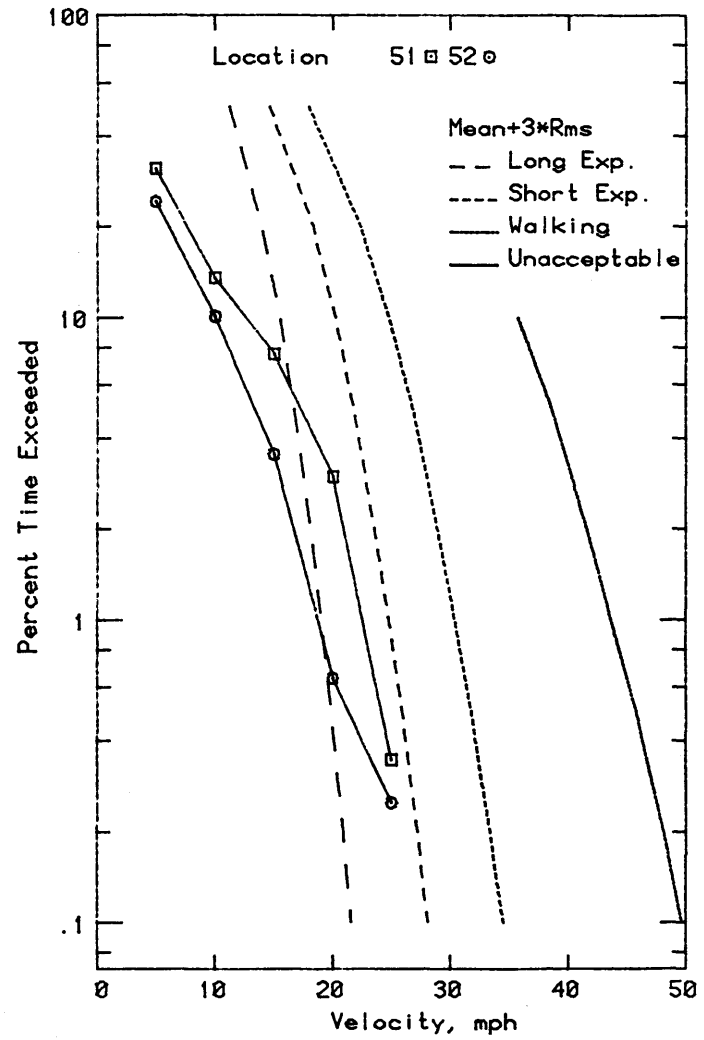
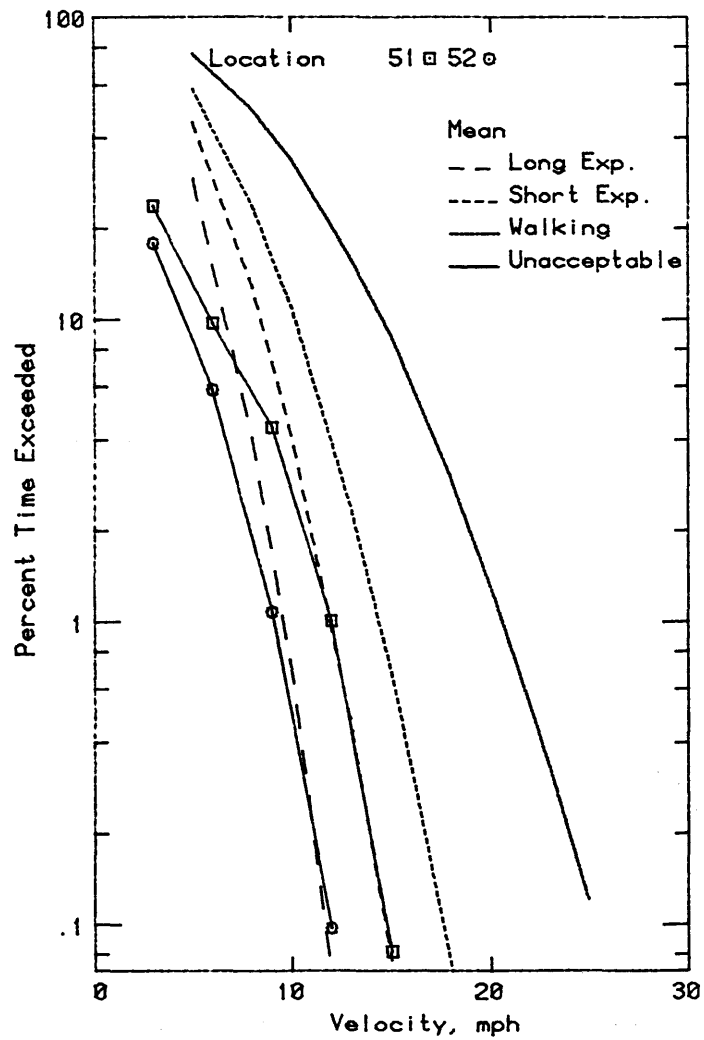
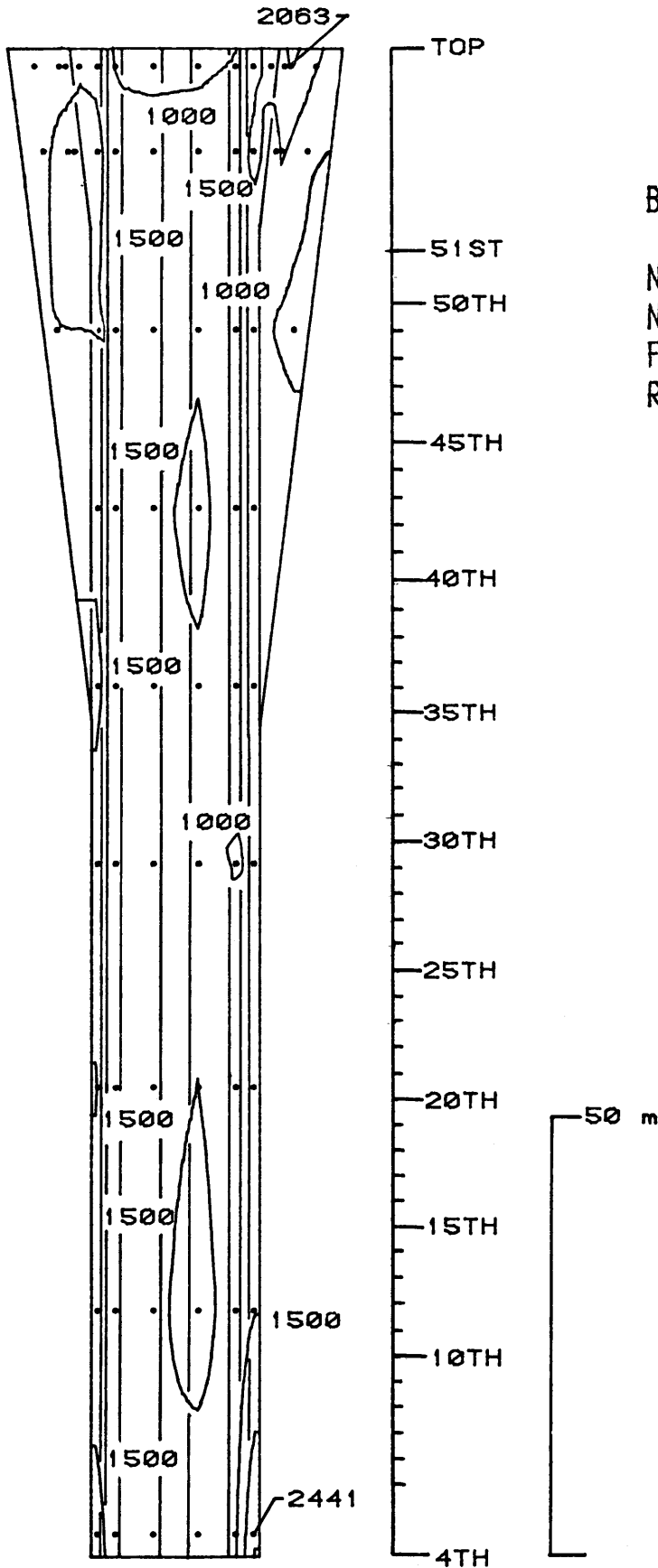


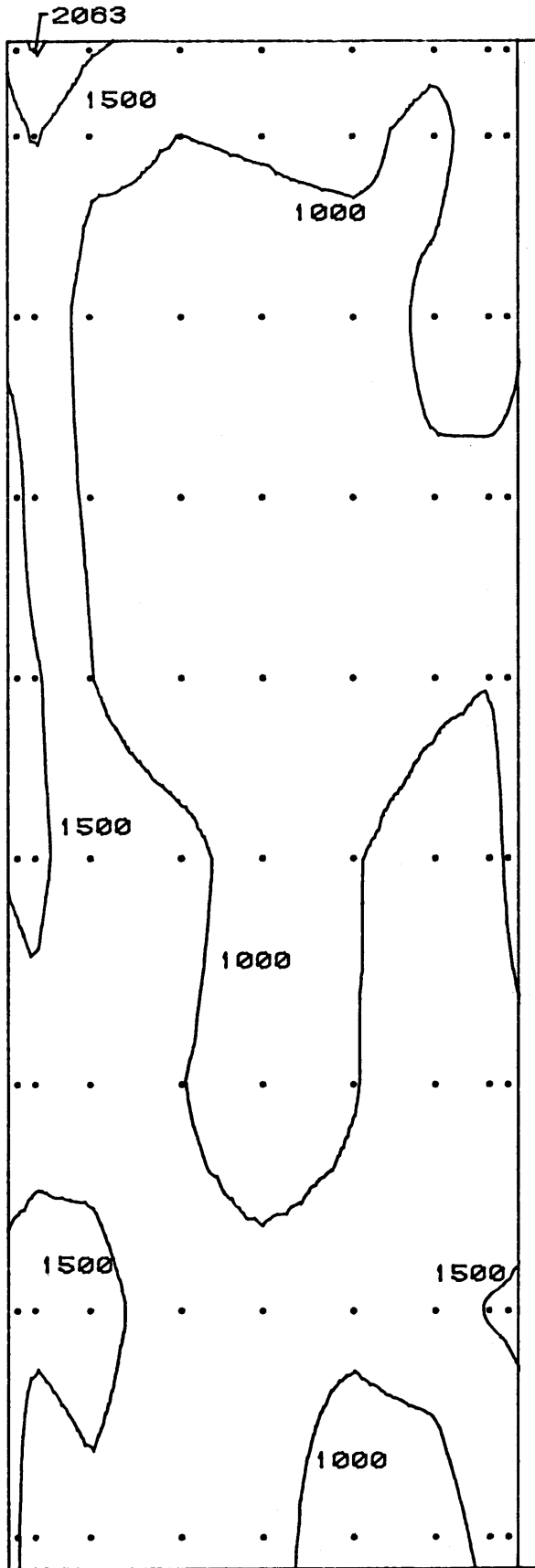
Figure 12k. Wind Velocity Probabilities for Pedestrian Locations



BUSINESS TOURIST HOTEL

NORTH ELEVATION
 NEGATIVE PEAK CLADDING LOADS (PA)
 FOR 100-YEAR RECURRENCE WIND
 REFERENCE PRESSURE = 675 PA

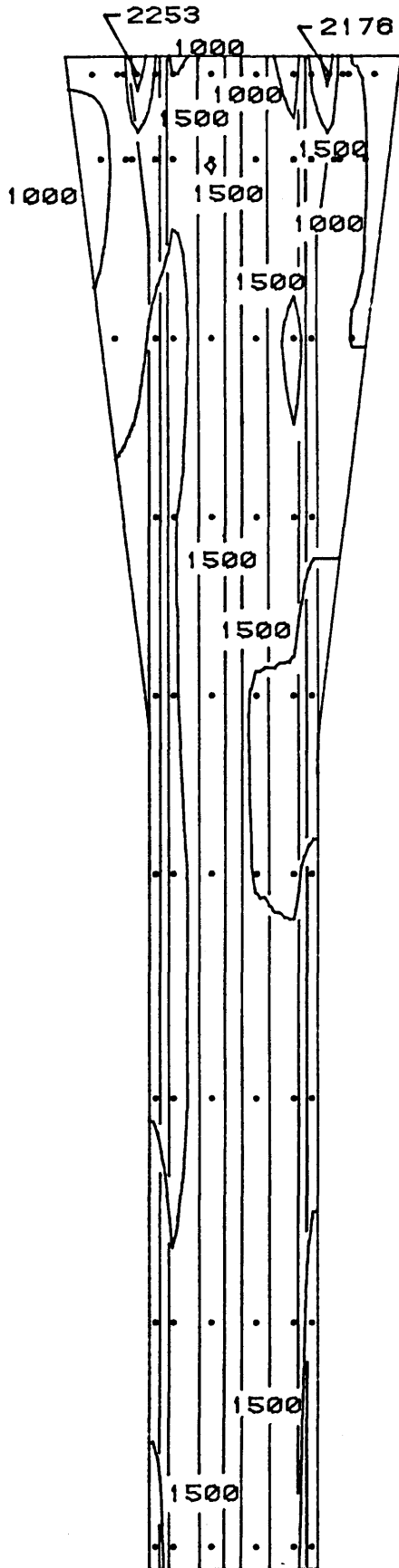
Figure 13a. Peak Pressure Contours on the Building for Cladding Loads



BUSINESS TOURIST HOTEL

WEST ELEVATION
NEGATIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

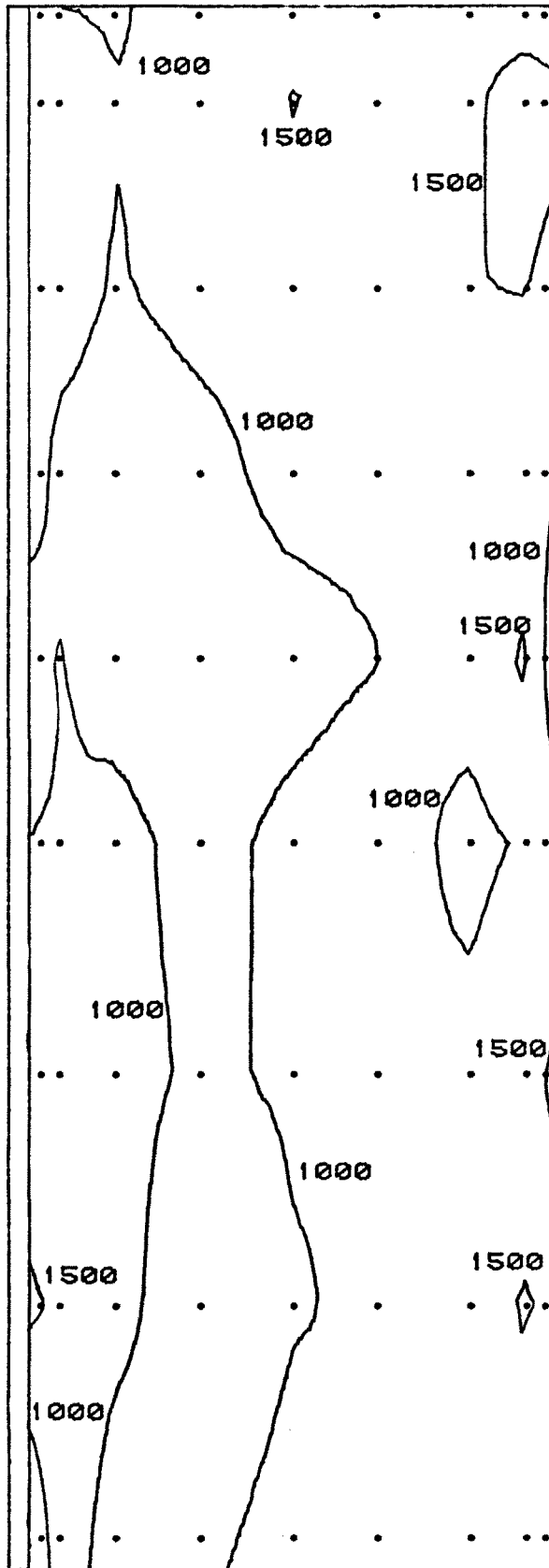
Figure 13b. Peak Pressure Contours on the Building for Cladding Loads



BUSINESS TOURIST HOTEL

SOUTH ELEVATION
 NEGATIVE PEAK CLADDING LOADS (PA)
 FOR 100-YEAR RECURRENCE WIND
 REFERENCE PRESSURE = 675 PA

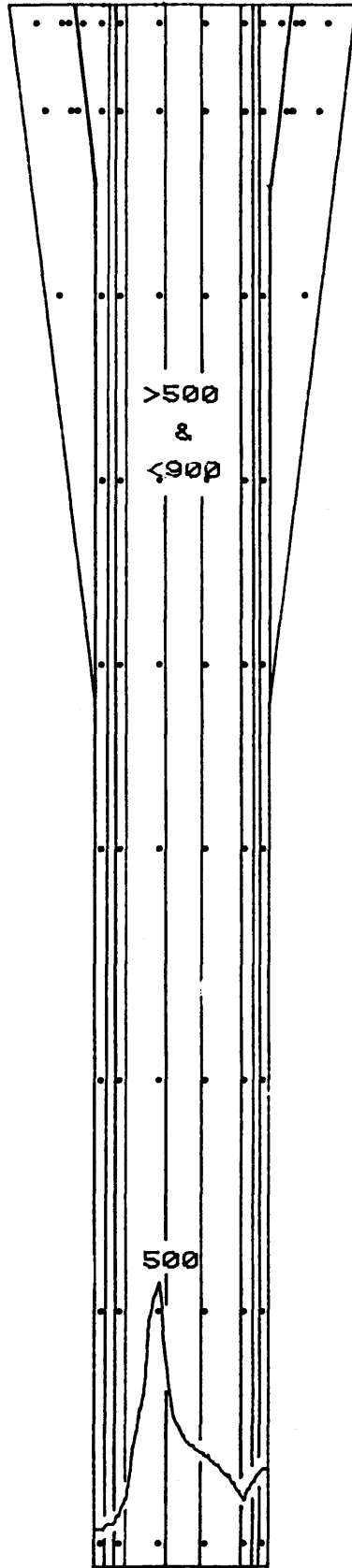
Figure 13c. Peak Pressure Contours on the Building for Cladding Loads



BUSINESS TOURIST HOTEL

EAST ELEVATION
 NEGATIVE PEAK CLADDING LOADS (PA)
 FOR 100-YEAR RECURRENCE WIND
 REFERENCE PRESSURE = 675 PA

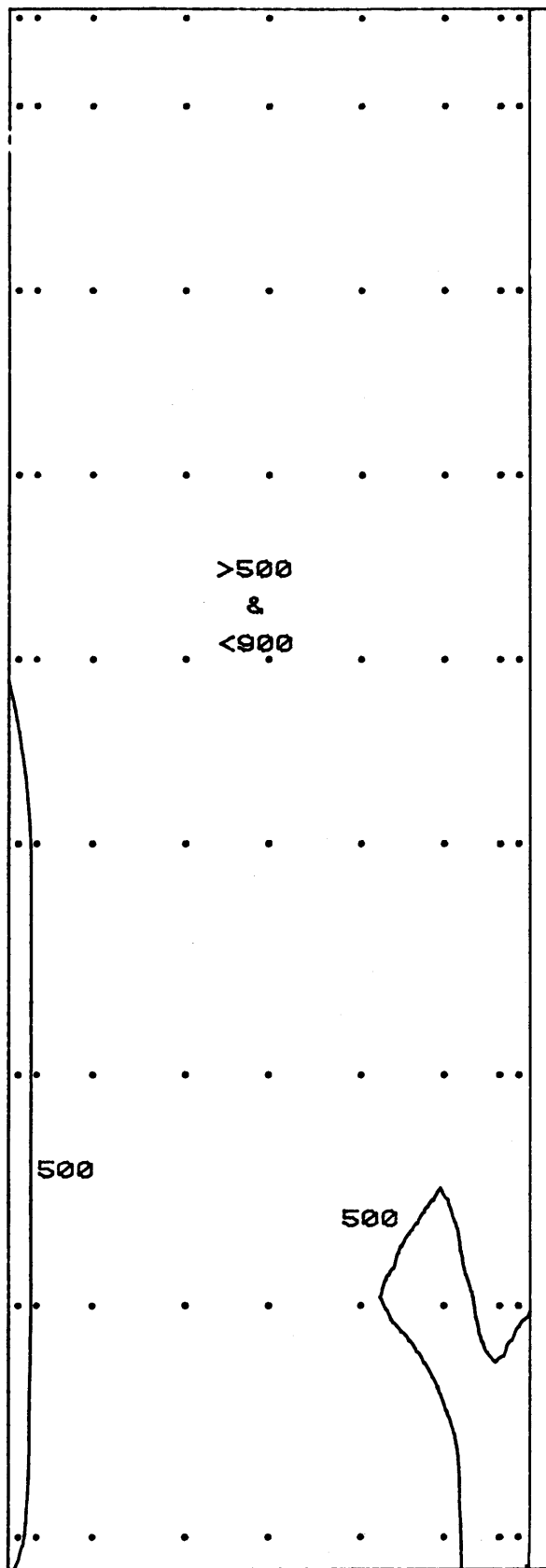
Figure 13d. Peak Pressure Contours on the Building for Cladding Loads



BUSINESS TOURIST HOTEL

NORTH ELEVATION
POSITIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

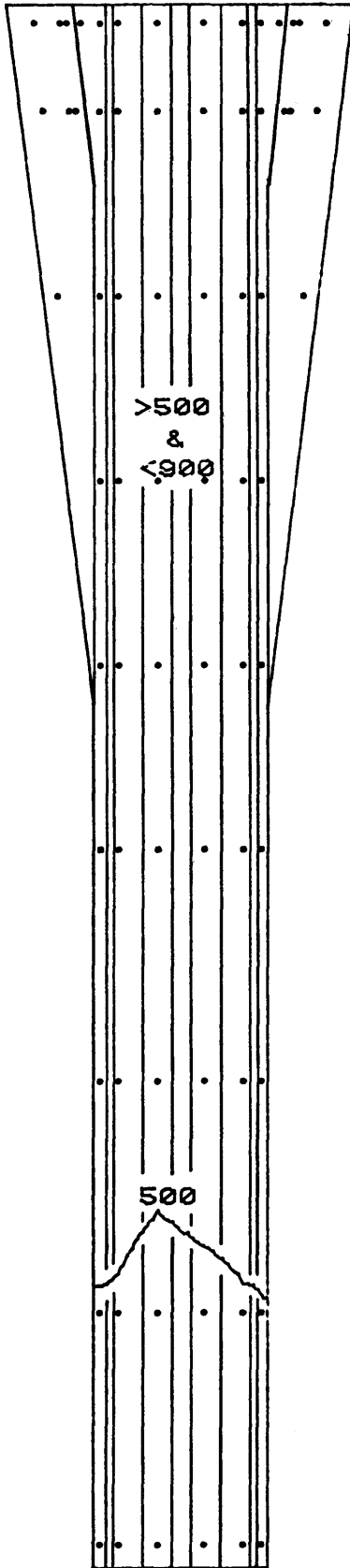
Figure 13e. Peak Pressure Contours on the Building for Cladding Loads



BUSINESS TOURIST HOTEL

WEST ELEVATION
POSITIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

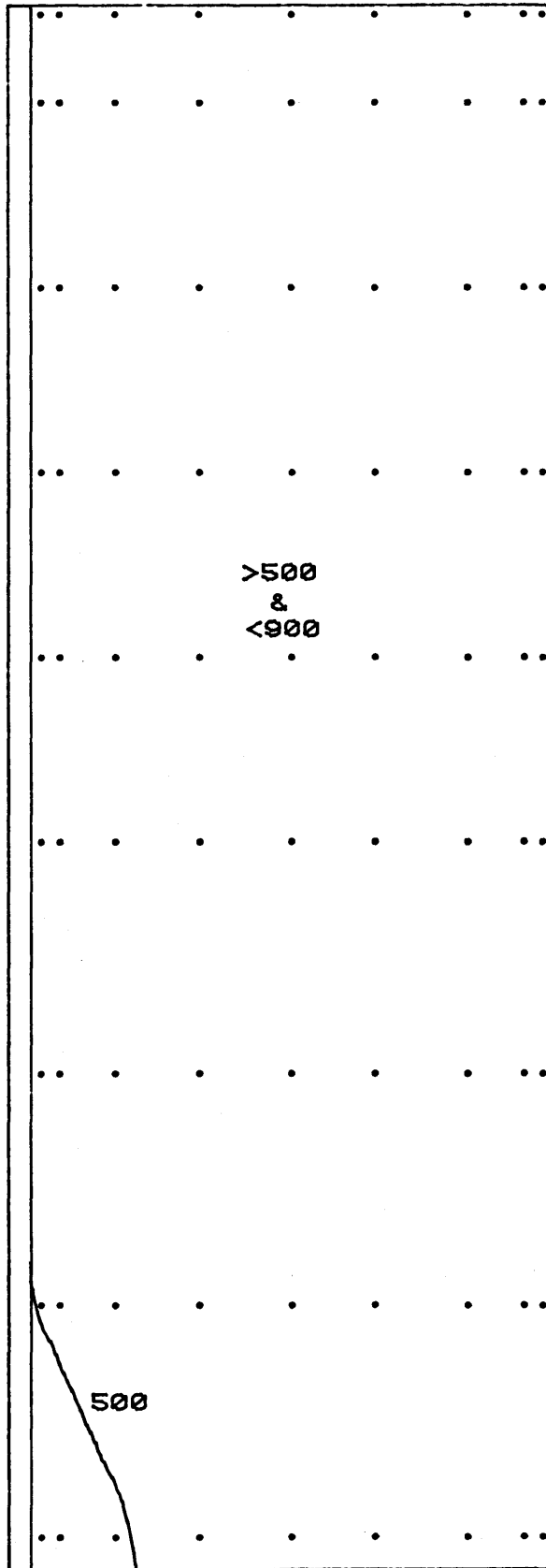
Figure 13f. Peak Pressure Contours on the Building for Cladding Loads



BUSINESS TOURIST HOTEL

SOUTH ELEVATION
POSITIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

Figure 13g. Peak Pressure Contours on the Building for Cladding Loads



BUSINESS TOURIST HOTEL

EAST ELEVATION
POSITIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

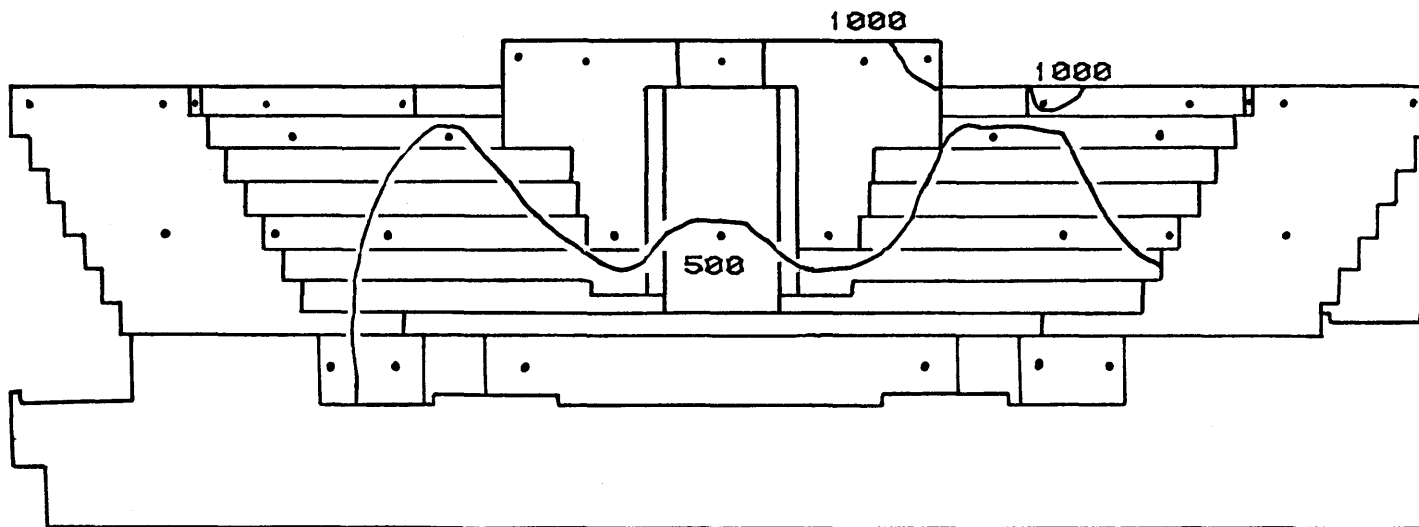
Figure 13h. Peak Pressure Contours on the Building for Cladding Loads

RESORT HOTEL

NEGATIVE PEAK CLADDING LOADS (PA)

FOR 100-YEAR RECURRENCE WIND

REFERENCE PRESSURE = 675 PA



NORTH ELEVATION

NOTE : POSITIVE CLADDING LOADS ARE LESS THAN 800 PA

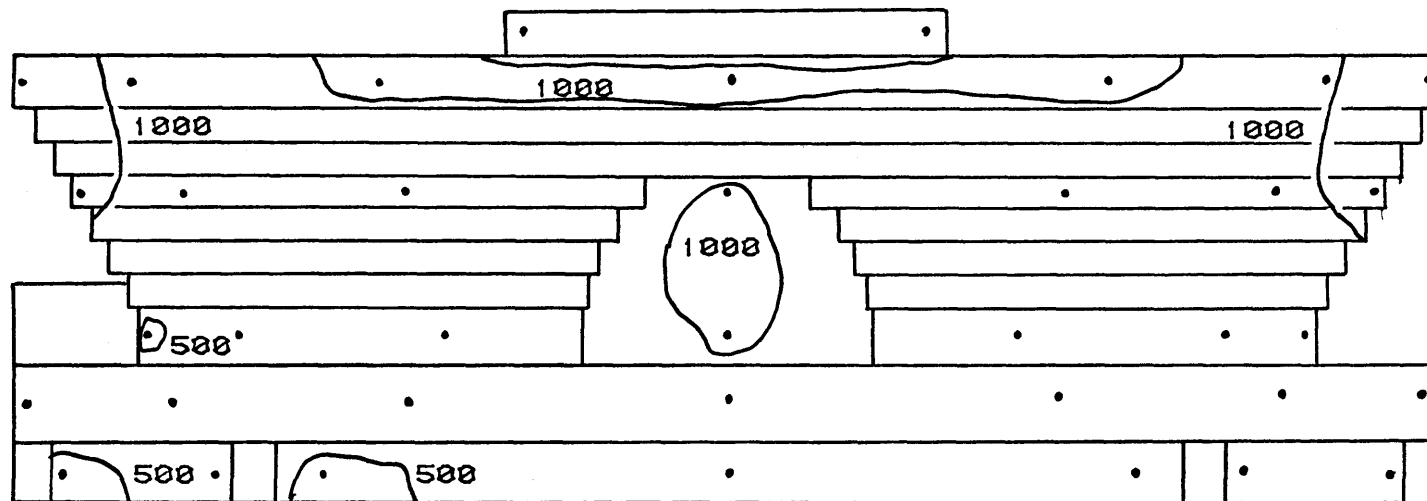
Figure 13i. Peak Pressure Contours on the Building for Cladding Loads

RESORT HOTEL

NEGATIVE PEAK CLADDING LOADS (PA)

FOR 100-YEAR RECURRENCE WIND

REFERENCE PRESSURE = 675 PA



SOUTH ELEVATION

NOTE : POSITIVE CLADDING LOADS ARE LESS THAN 700 PA

Figure 13j. Peak Pressure Contours on the Building for Cladding Loads

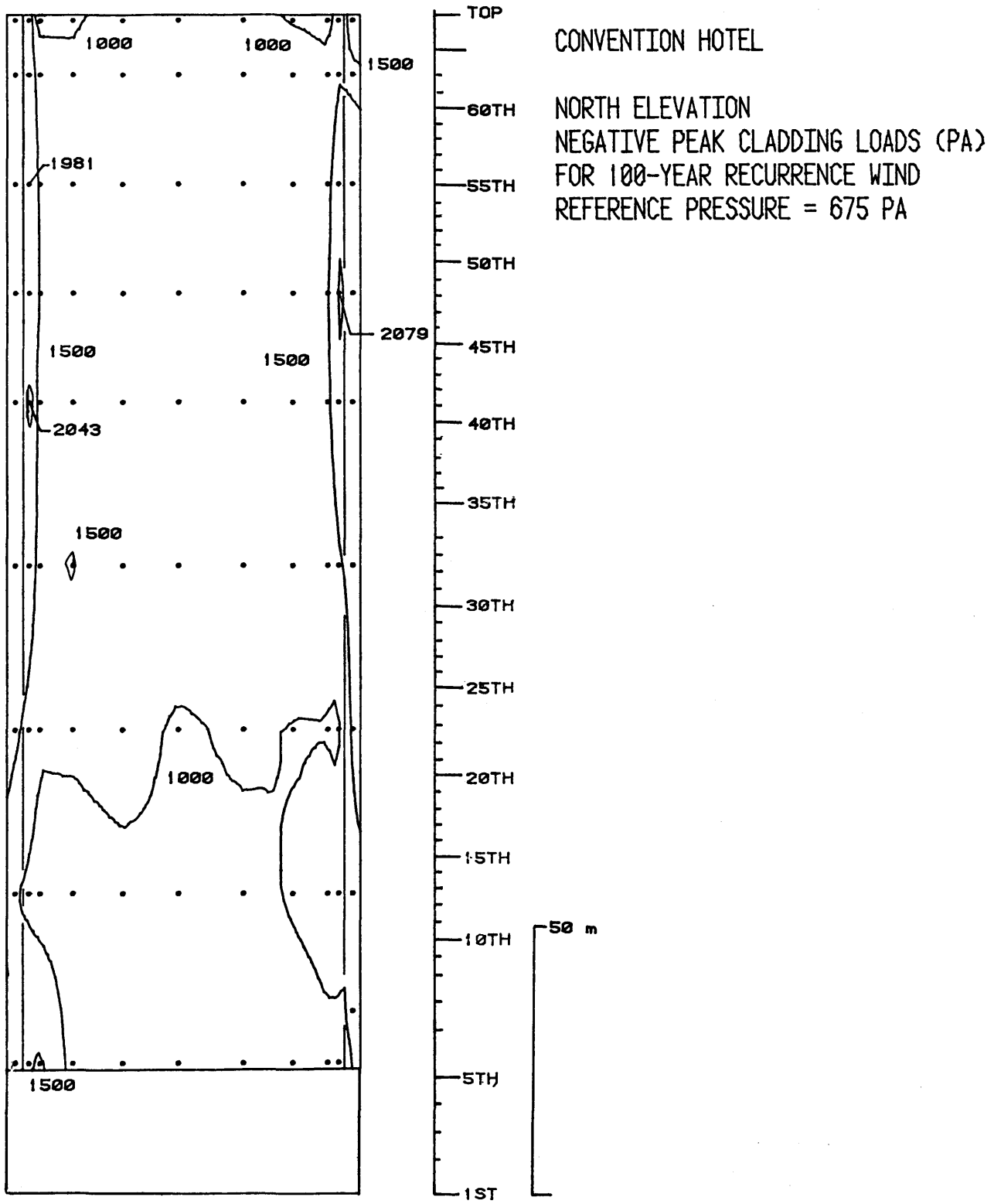


Figure 13k. Peak Pressure Contours on the Building for Cladding Loads

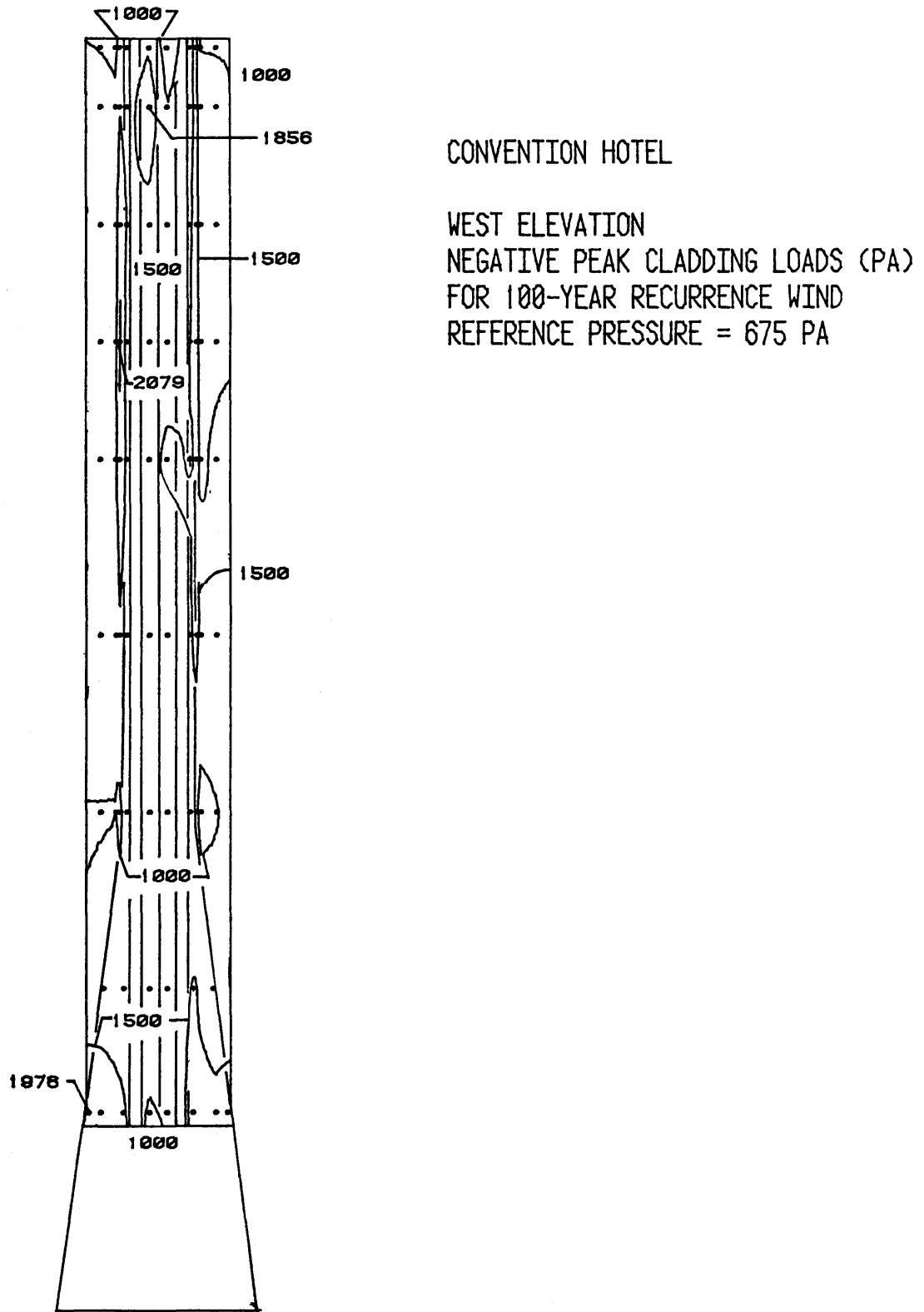
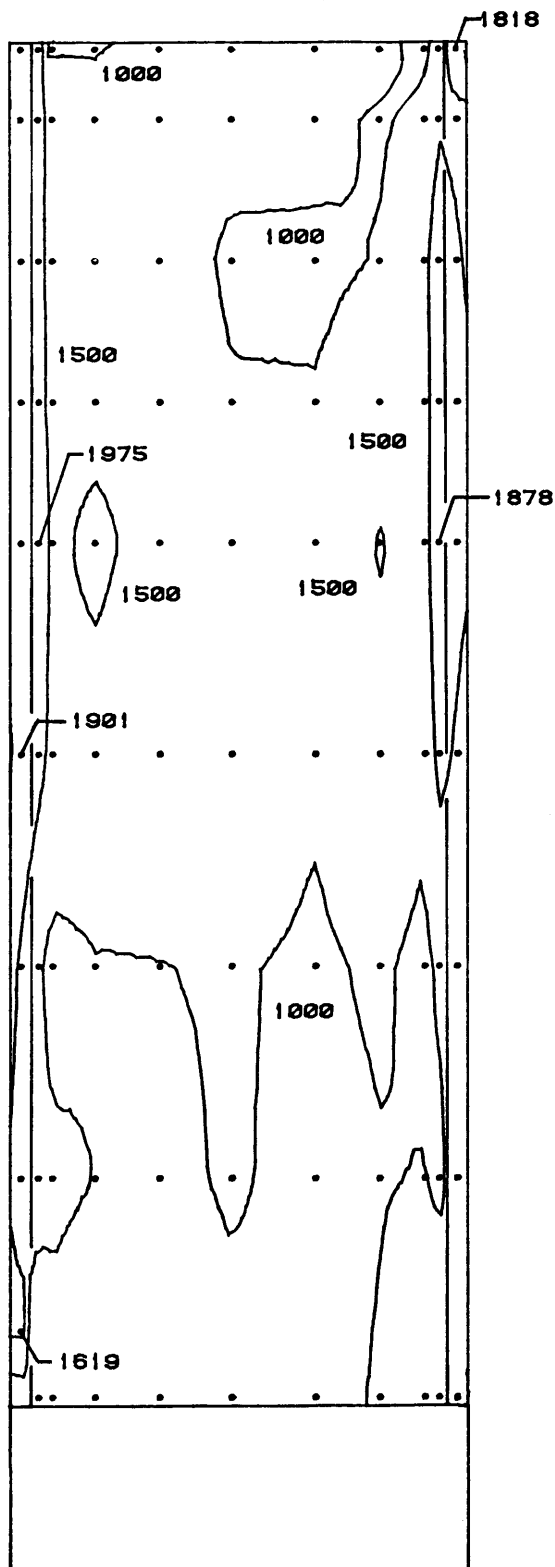


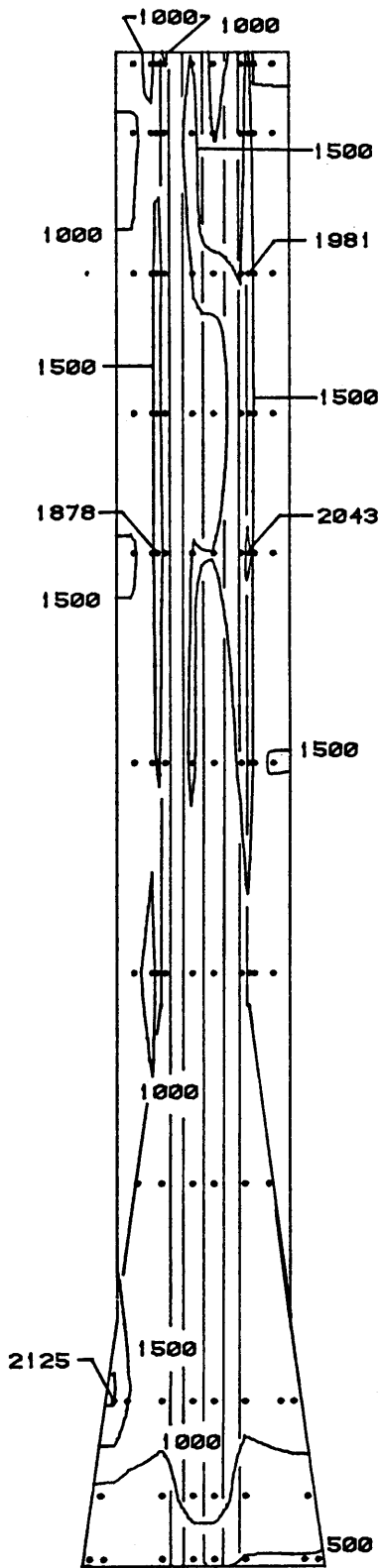
Figure 131. Peak Pressure Contours on the Building for Cladding Loads



CONVENTION HOTEL

SOUTH ELEVATION
 NEGATIVE PEAK CLADDING LOADS (PA)
 FOR 100-YEAR RECURRENCE WIND
 REFERENCE PRESSURE = 675 PA

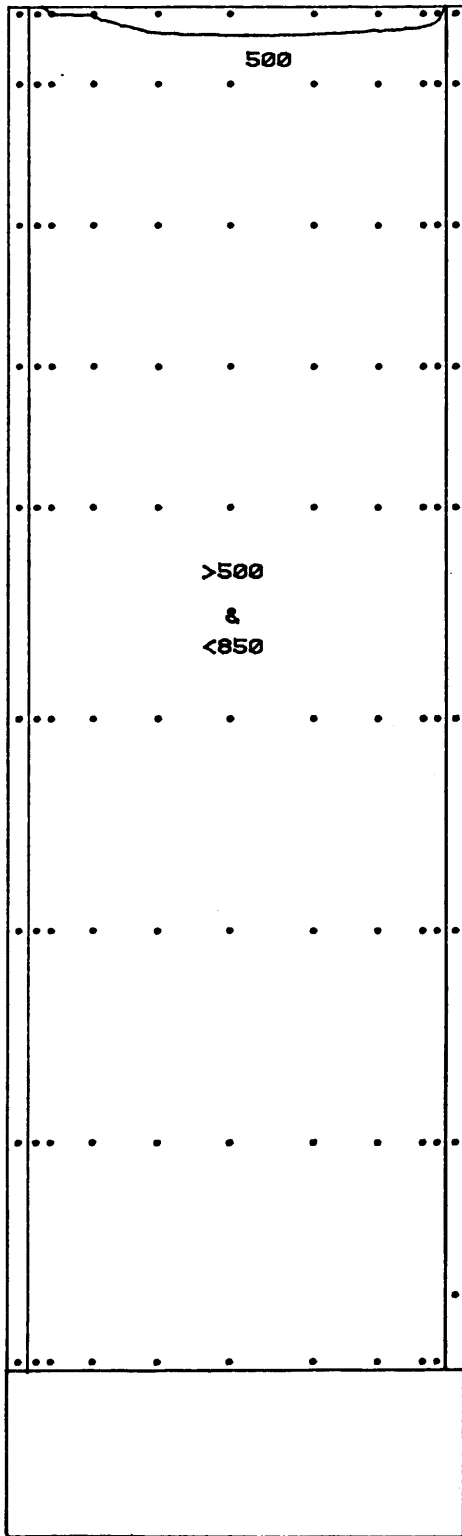
Figure 13m. Peak Pressure Contours on the Building for Cladding Loads



CONVENTION HOTEL

EAST ELEVATION
 NEGATIVE PEAK CLADDING LOADS (PA)
 FOR 100-YEAR RECURRENCE WIND
 REFERENCE PRESSURE = 675 PA

Figure 13n. Peak Pressure Contours on the Building for Cladding Loads



CONVENTION HOTEL

NORTH ELEVATION
POSITIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

Figure 13o. Peak Pressure Contours on the Building for Cladding Loads

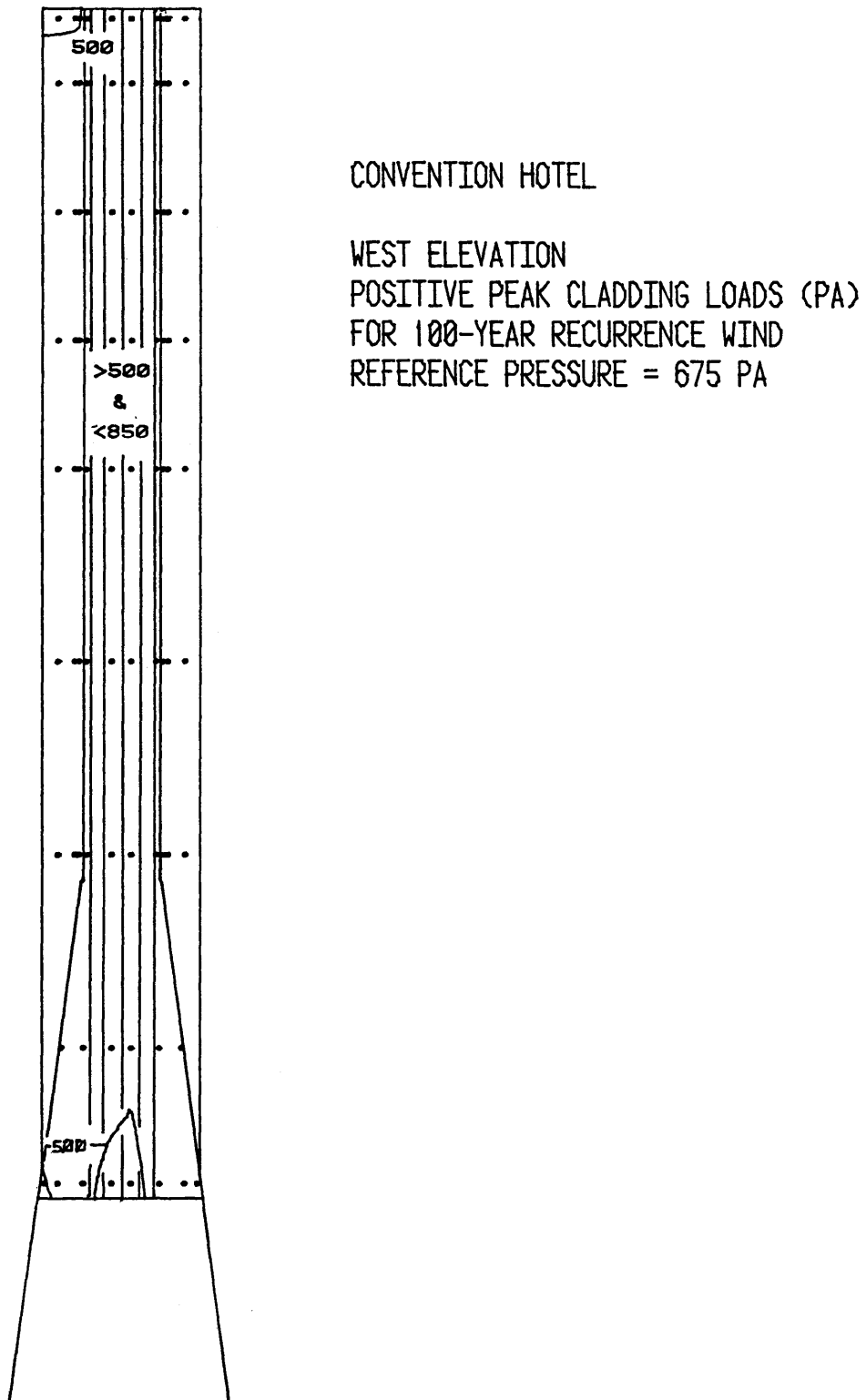
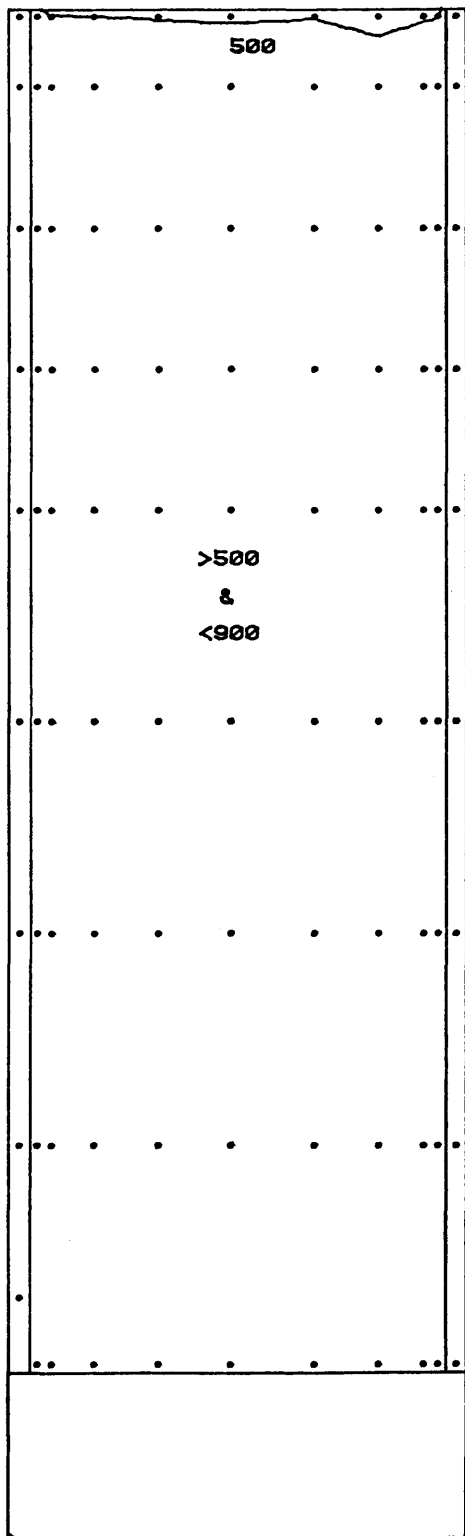


Figure 13p. Peak Pressure Contours on the Building for Cladding Loads



CONVENTION HOTEL

SOUTH ELEVATION
POSITIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

Figure 13q. Peak Pressure Contours on the Building for Cladding Loads

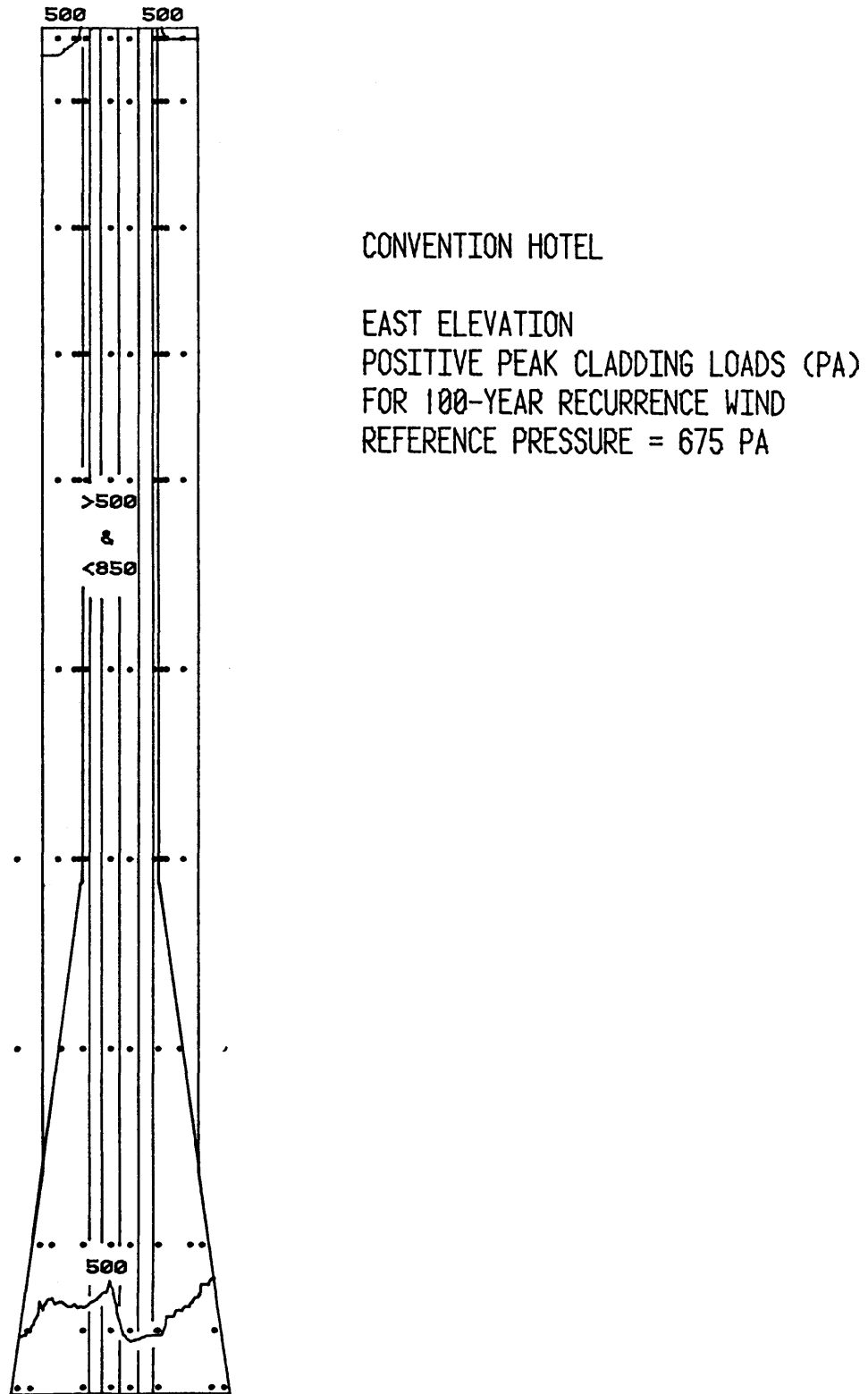
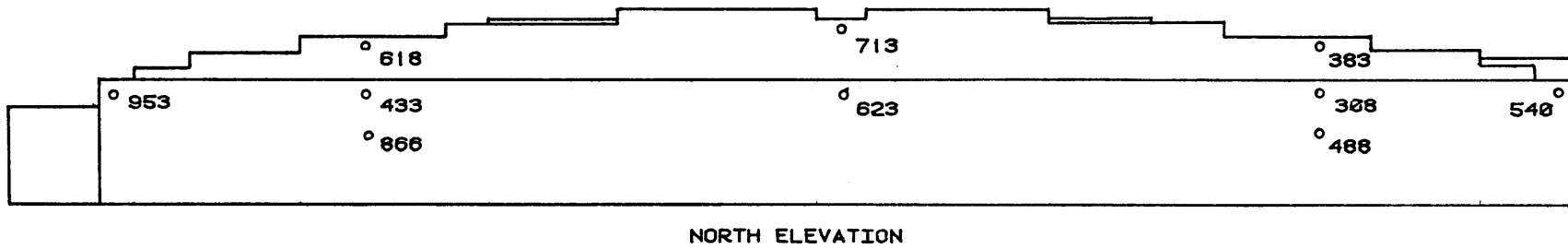


Figure 13r. Peak Pressure Contours on the Building for Cladding Loads

CONVENTION CENTER

NEGATIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 875 PA

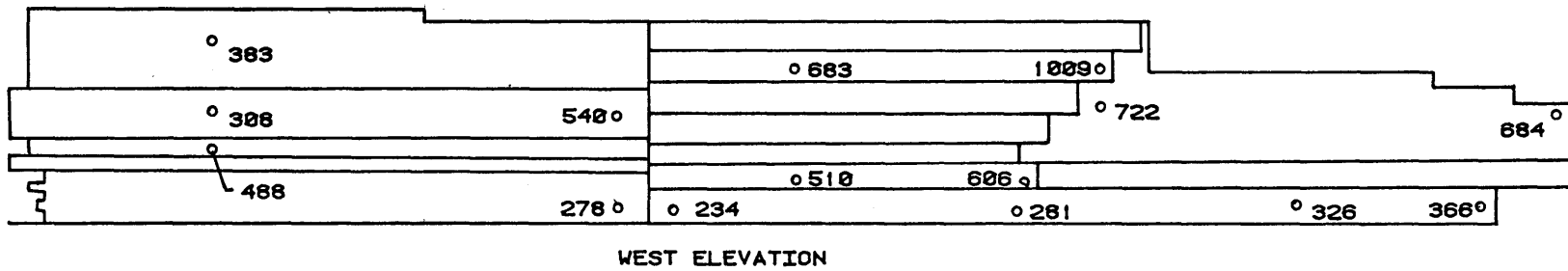


NOTE : POSITIVE CLADDING LOADS ARE LESS THAN 550 PA

Figure 13s. Peak Pressure Contours on the Building for Cladding Loads

CONVENTION CENTER

NEGATIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 675 PA

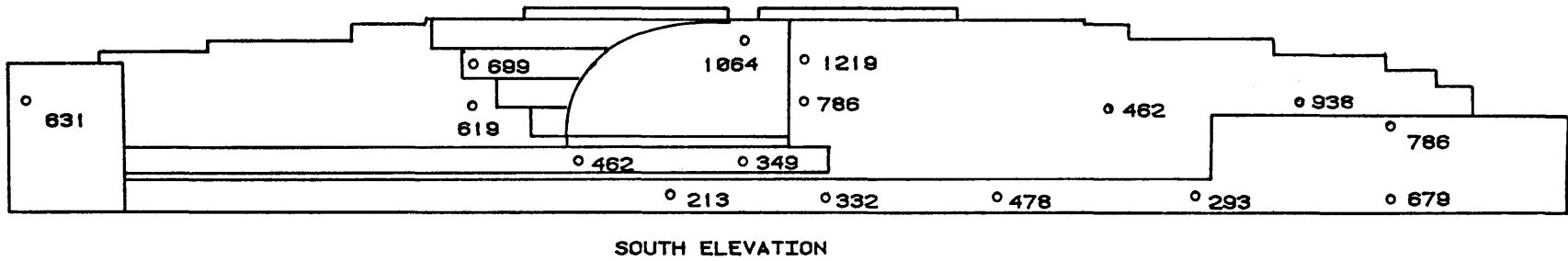


NOTE : POSITIVE CLADDING LOADS ARE LESS THAN 600 PA

Figure 13t. Peak Pressure Contours on the Building for Cladding Loads

CONVENTION CENTER

NEGATIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 875 PA



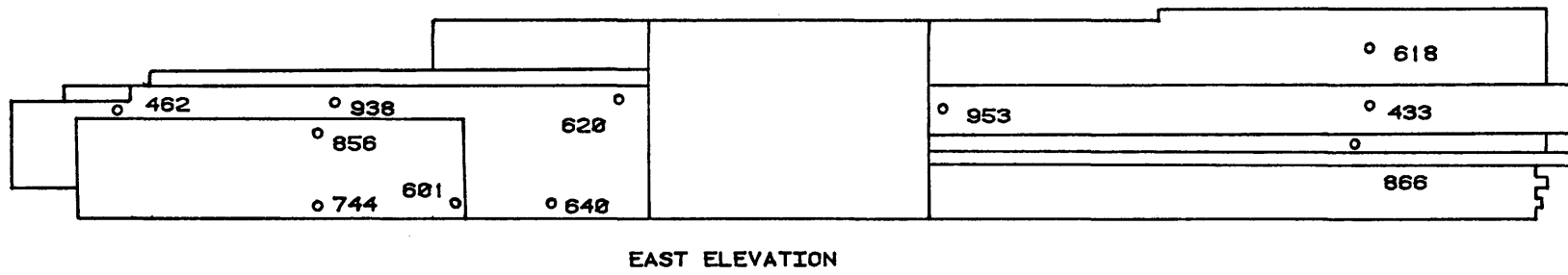
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NOTE : POSITIVE CLADDING LOADS ARE LESS THAN 600 PA

Figure 13u. Peak Pressure Contours on the Building for Cladding Loads

CONVENTION CENTER

NEGATIVE PEAK CLADDING LOADS (PA)
FOR 100-YEAR RECURRENCE WIND
REFERENCE PRESSURE = 875 PA



NOTE : POSITIVE CLADDING LOADS ARE LESS THAN 550 PA

Figure 13v. Peak Pressure Contours on the Building for Cladding Loads

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL

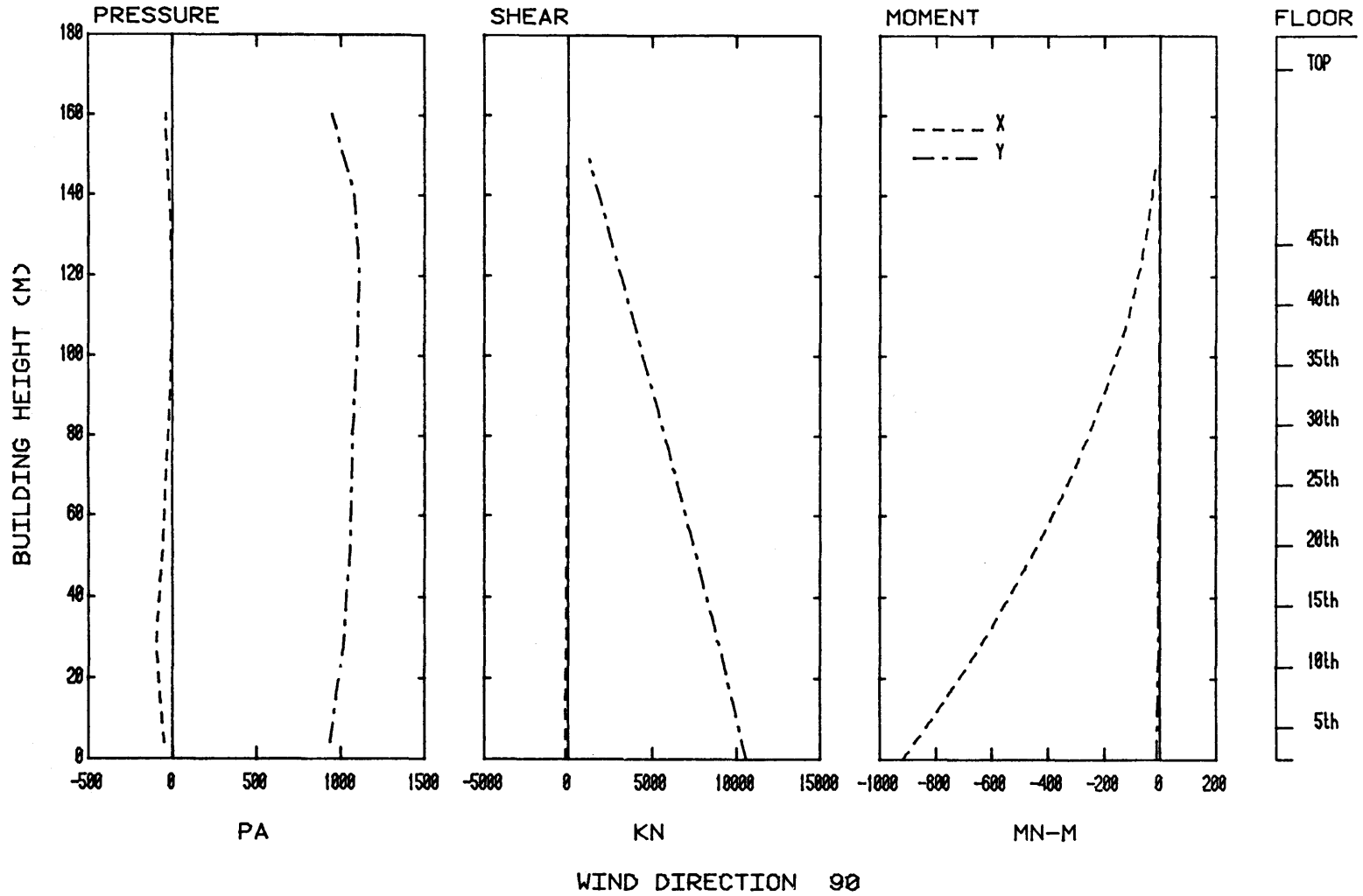


Figure 14. Load, Shear, and Moment Diagrams for Selected Wind Directions

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL

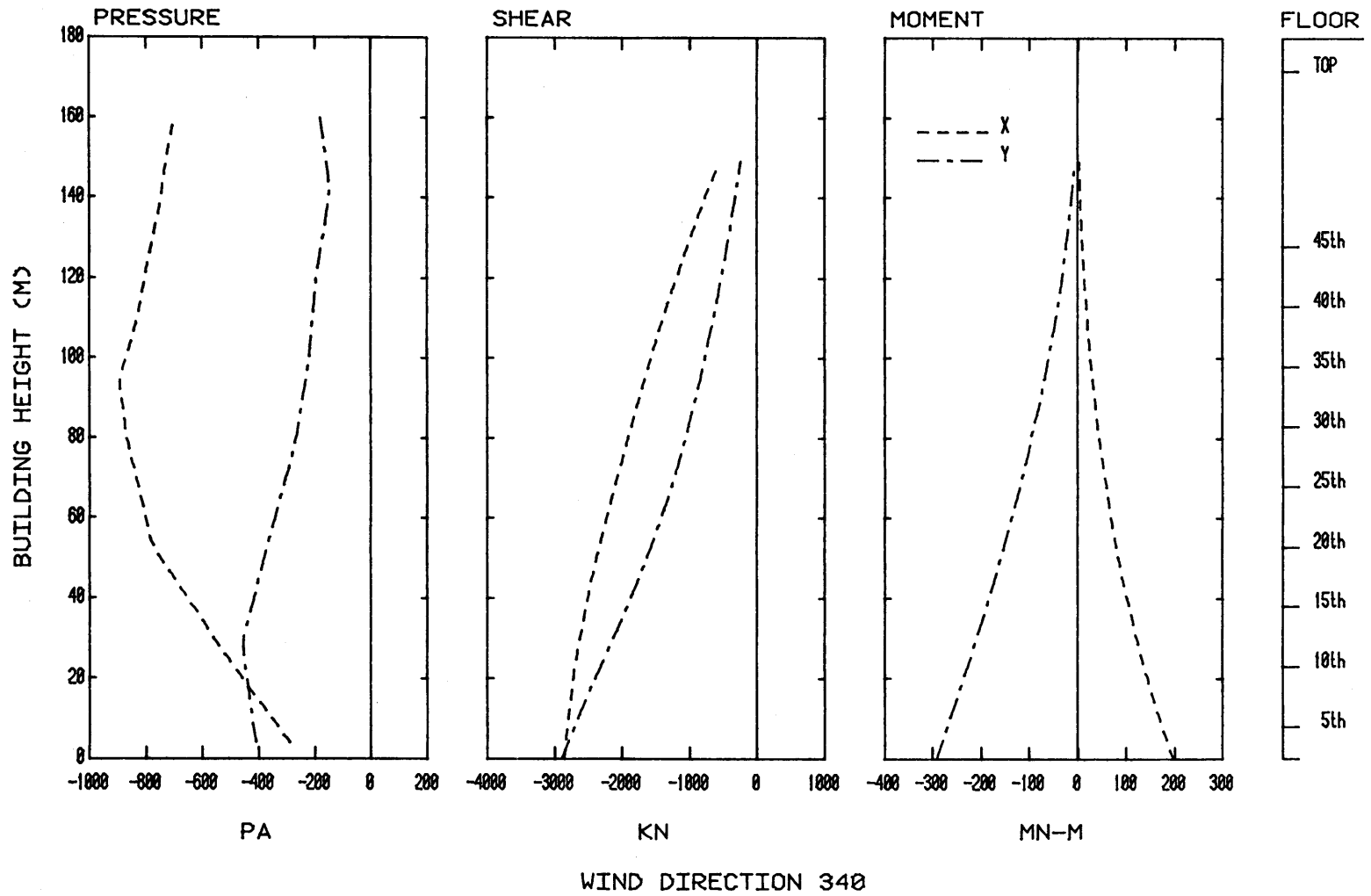


Figure 14. Load, Shear, and Moment Diagrams for Selected Wind Directions

RAHARDJA CENTER -- CONVENTION HOTEL

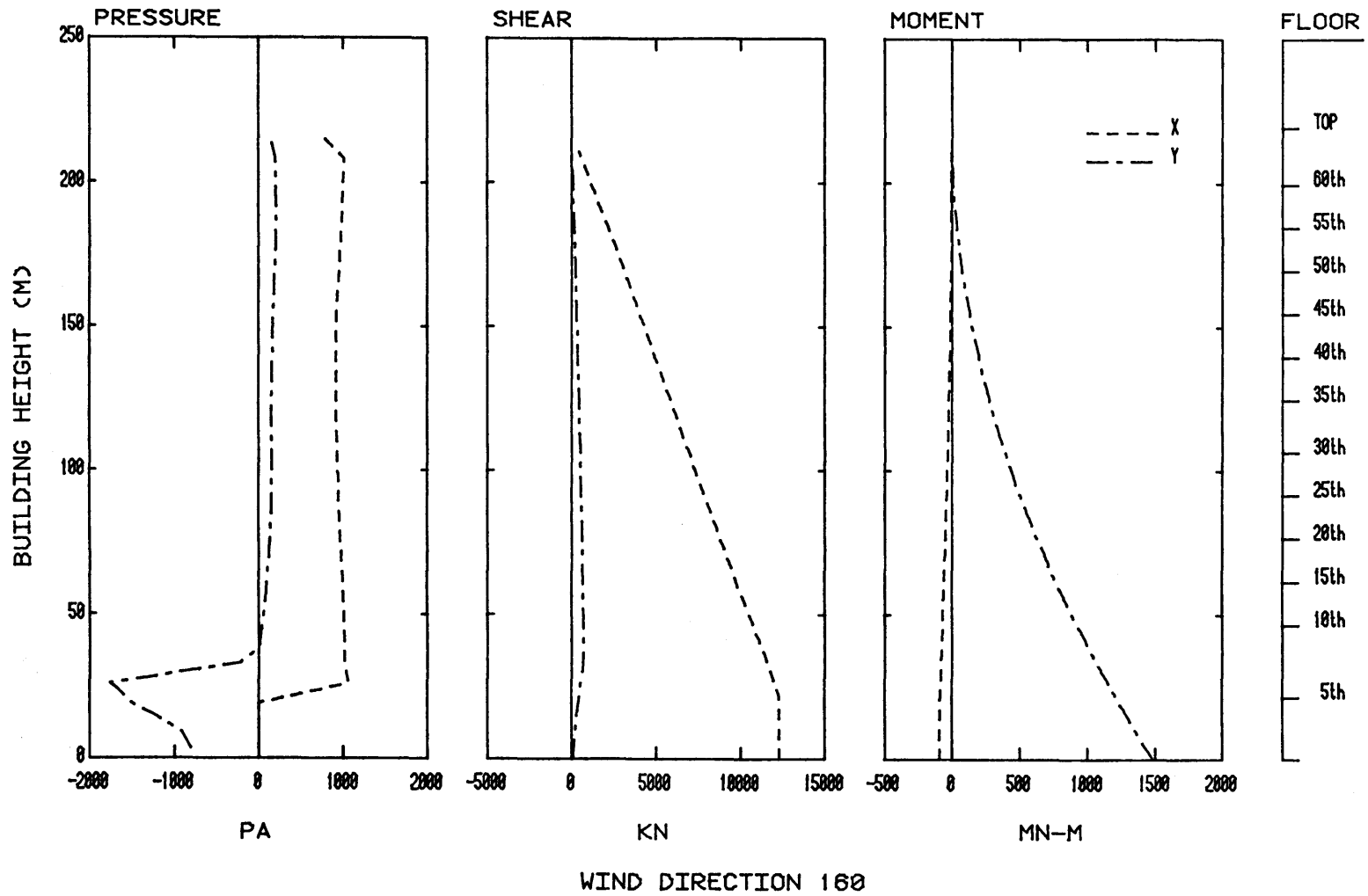


Figure 14. Load, Shear, and Moment Diagrams for Selected Wind Directions

RAHARDJA CENTER -- CONVENTION HOTEL

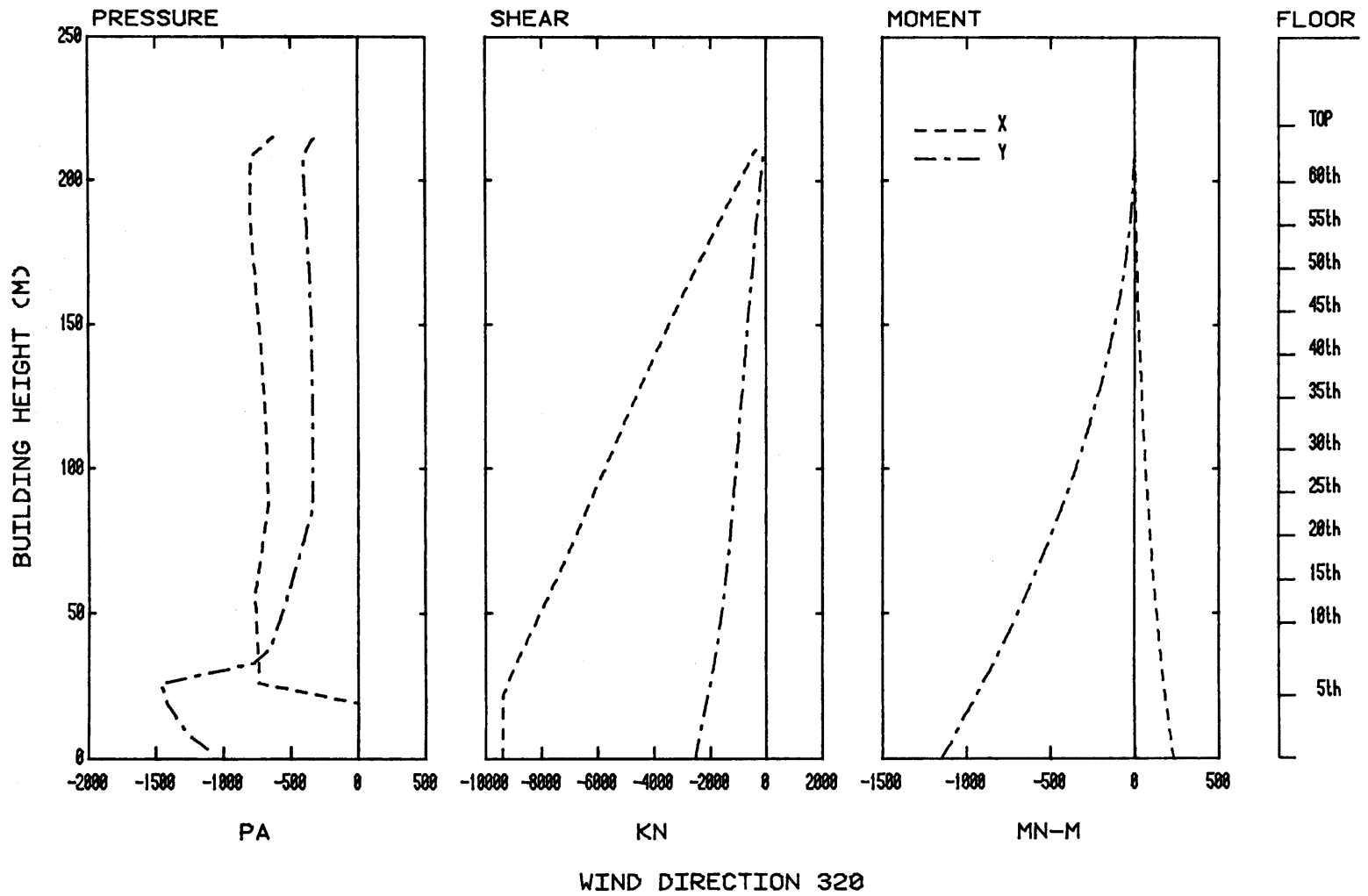
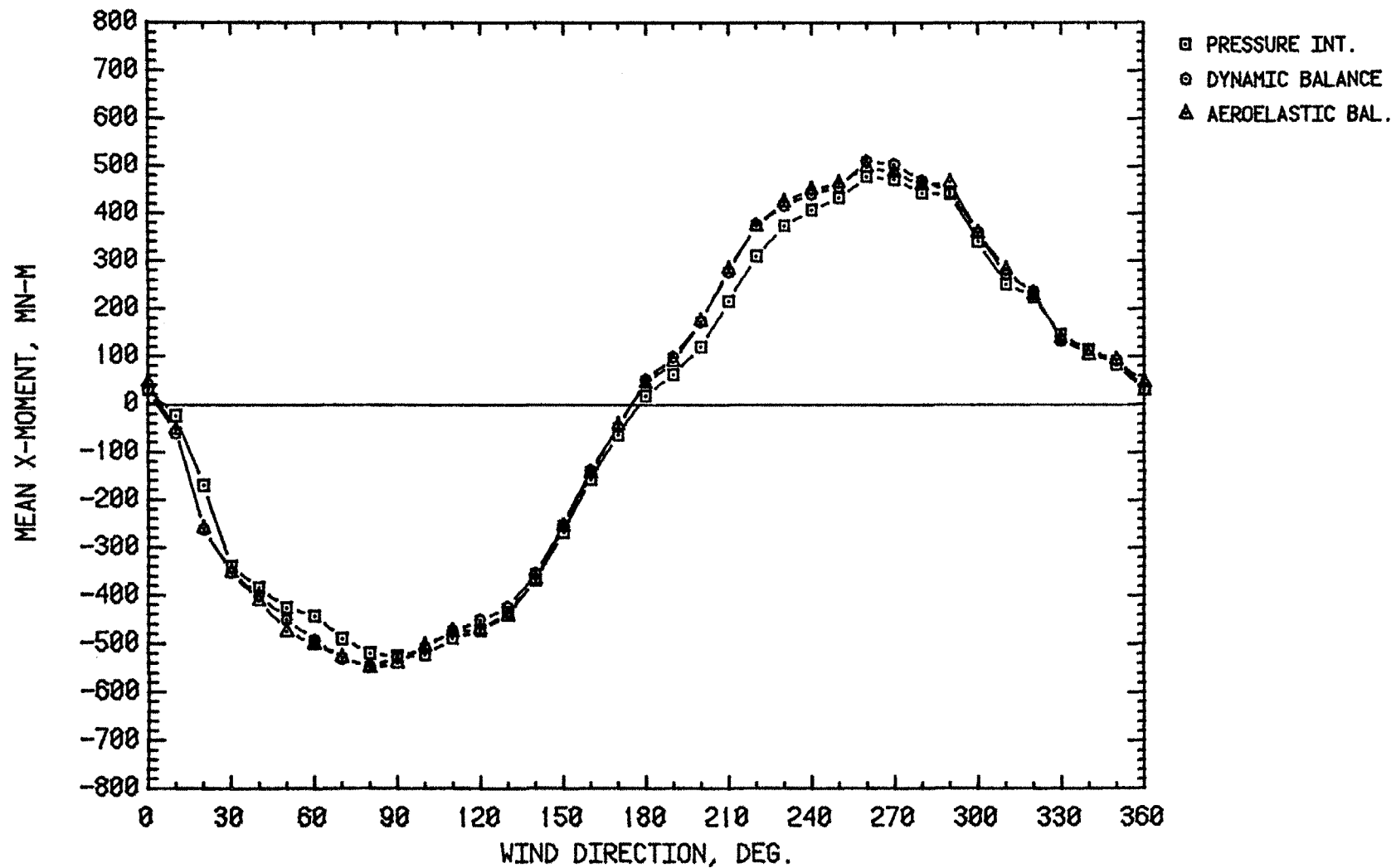
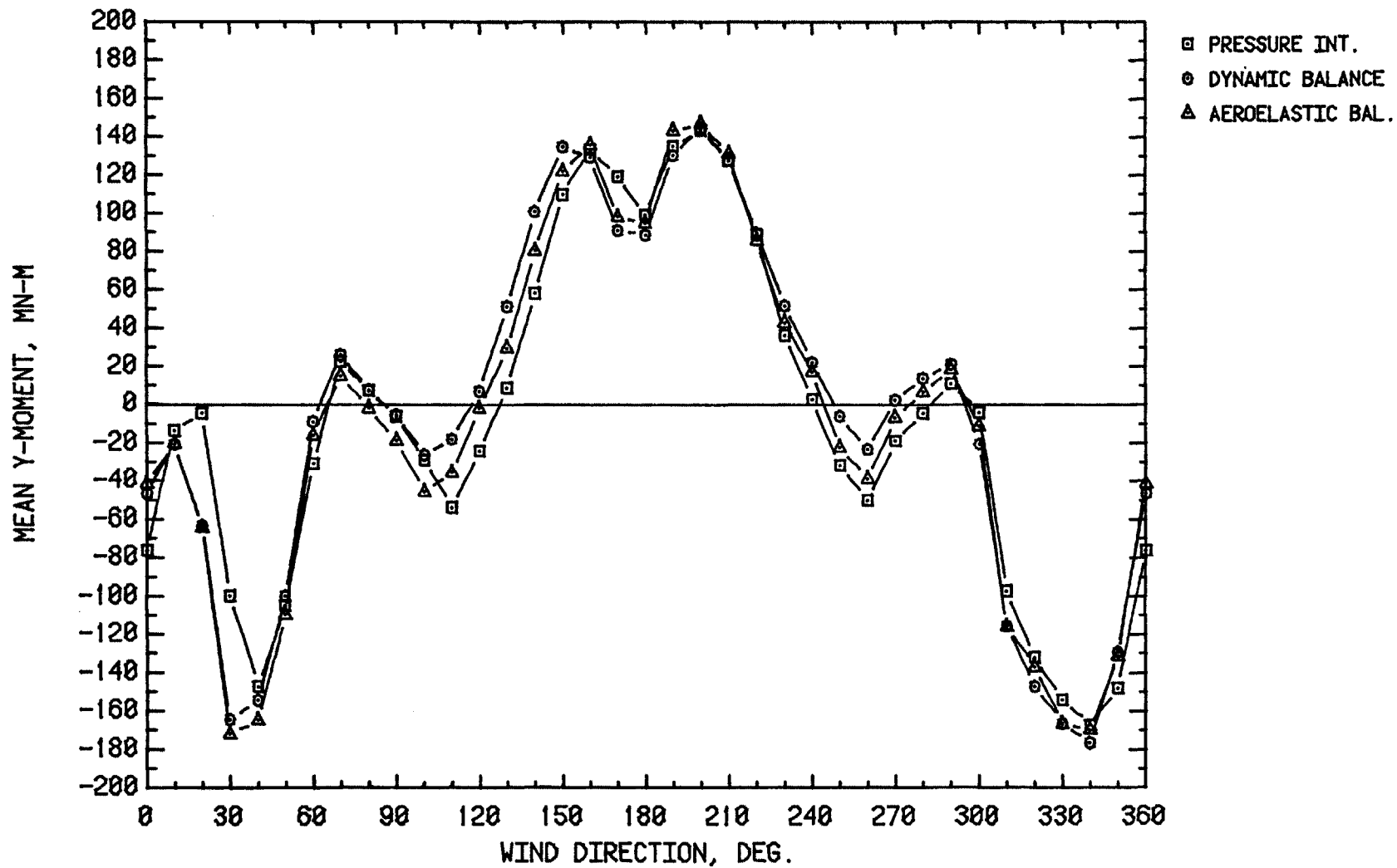


Figure 14. Load, Shear, and Moment Diagrams for Selected Wind Directions



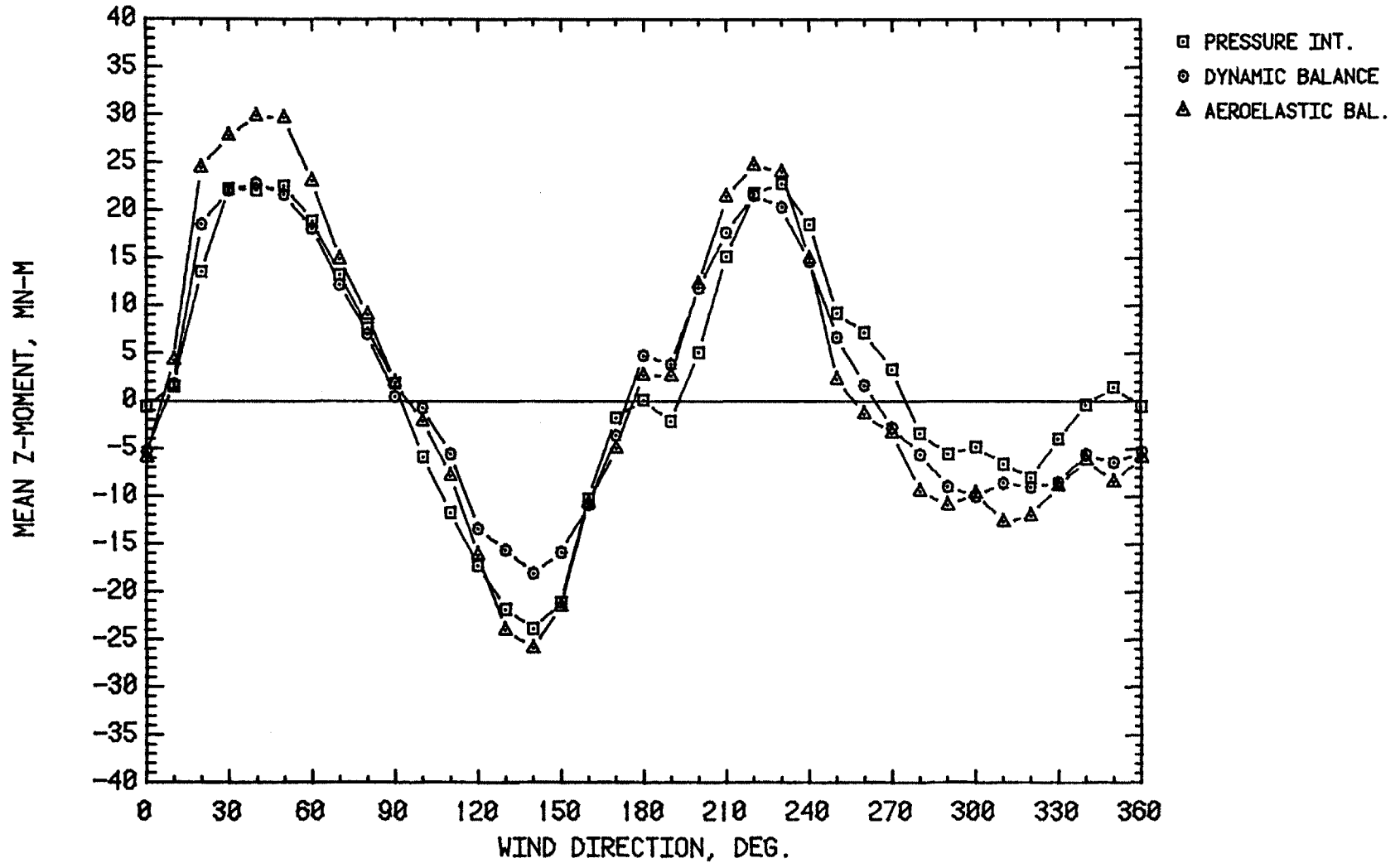
RAHARDJA BUSINESS-TOURIST HOTEL MEAN BASE MOMENT BY 3 METHODS

Figure 15a. Comparison of Mean Base Moments Model Data



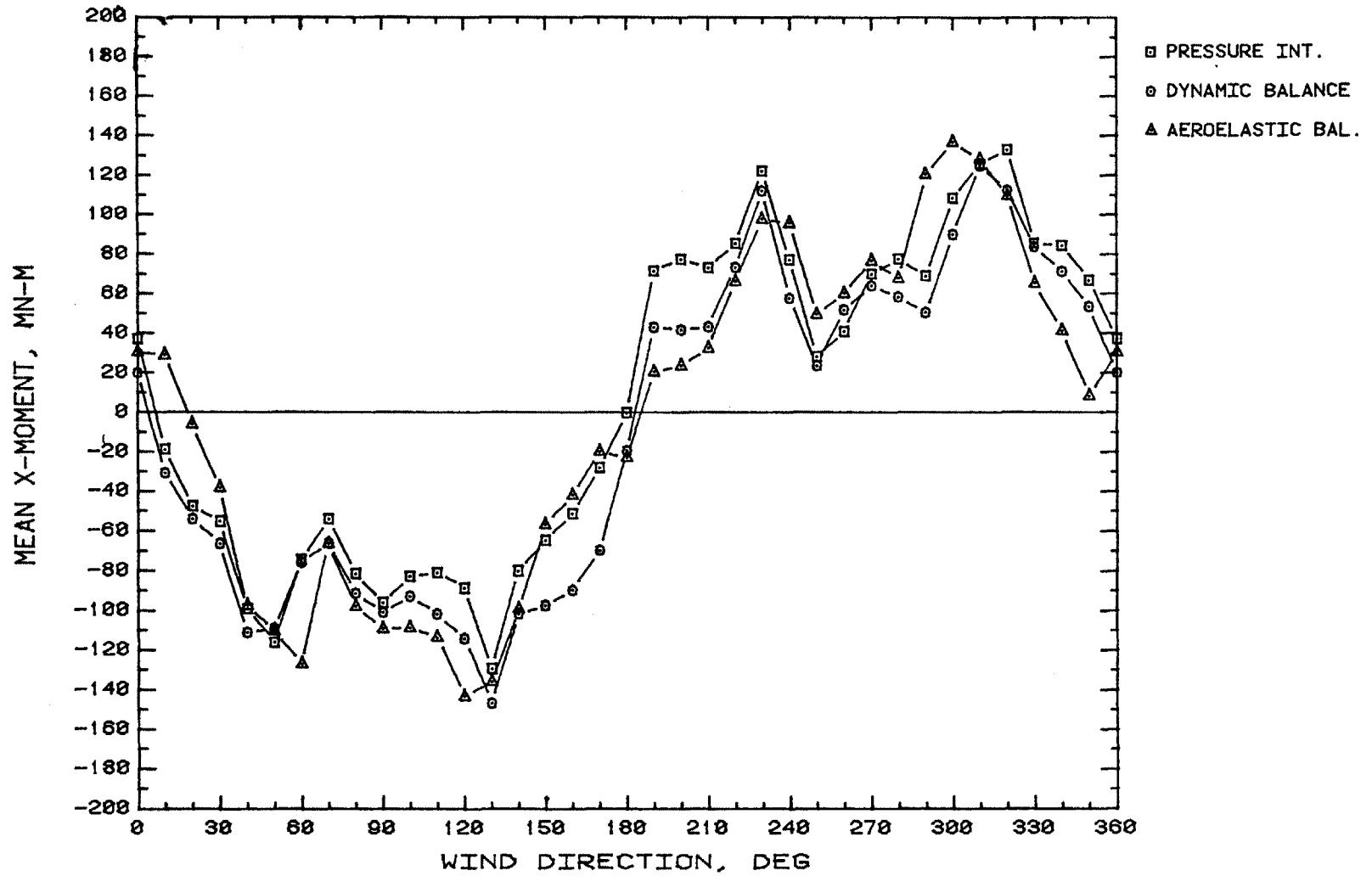
RAHARDJA BUSINESS-TOURIST HOTEL MEAN BASE MOMENT BY 3 METHODS

Figure 15b. Comparison of Mean Base Moments Model Data



RAHARDJA BUSINESS-TOURIST HOTEL MEAN BASE MOMENT BY 3 METHODS

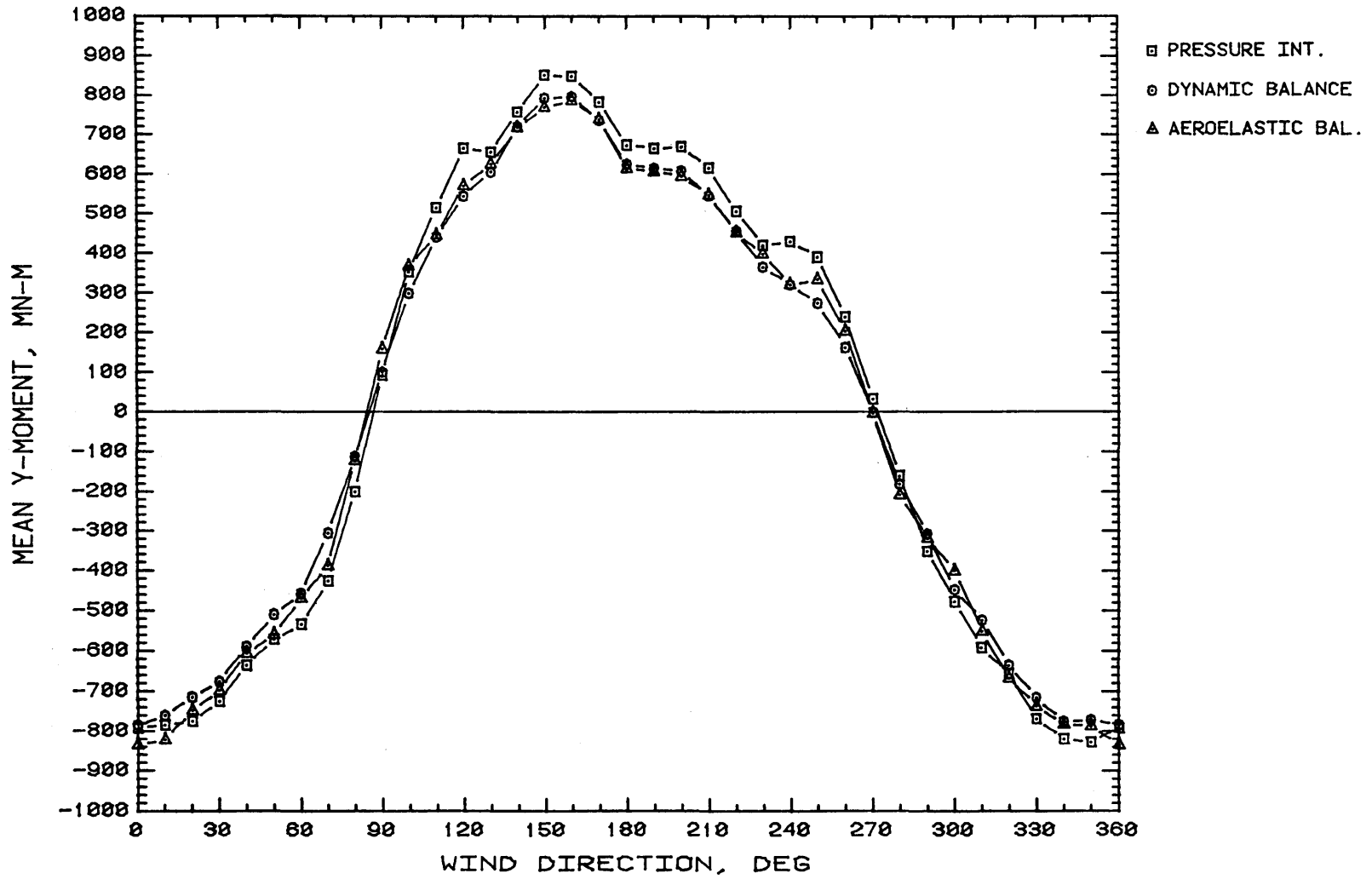
Figure 15c. Comparison of Mean Base Moments Model Data



RAHARDJA CONVENTION HOTEL

MEAN BASE MOMENT BY 3 METHODS

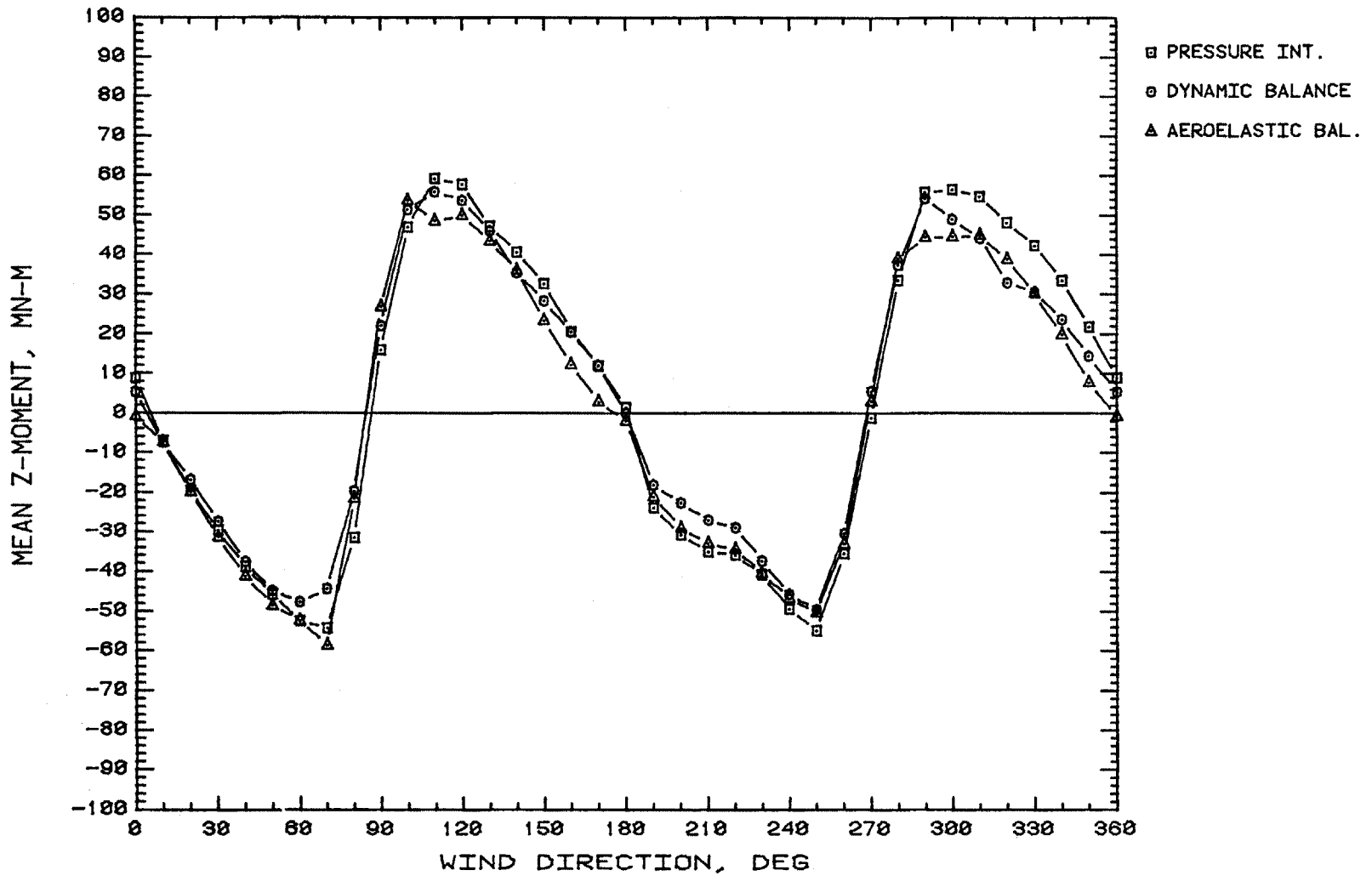
Figure 15d. Comparison of Mean Base Moments Model Data



RAHARDJA CONVENTION HOTEL

MEAN BASE MOMENT BY 3 METHODS

Figure 15e. Comparison of Mean Base Moments Model Data



RAHARDJA CONVENTION HOTEL

MEAN BASE MOMENT BY 3 METHODS

Figure 15f. Comparison of Mean Base Moments Model Data

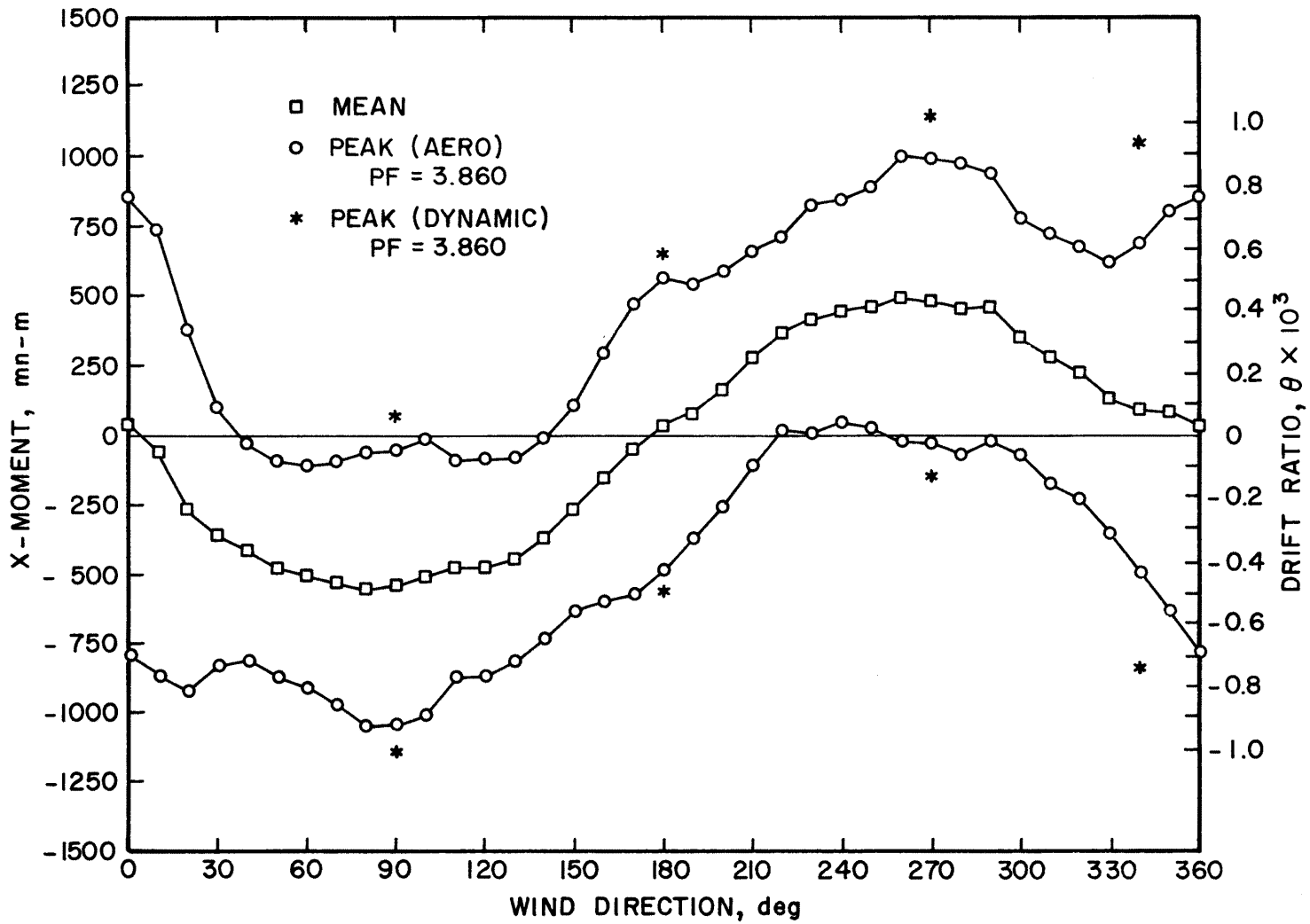


Figure 16a. Base Moment versus Wind Direction for a 100-yr Recurrence Wind (M_x , Business-Tourist Hotel)

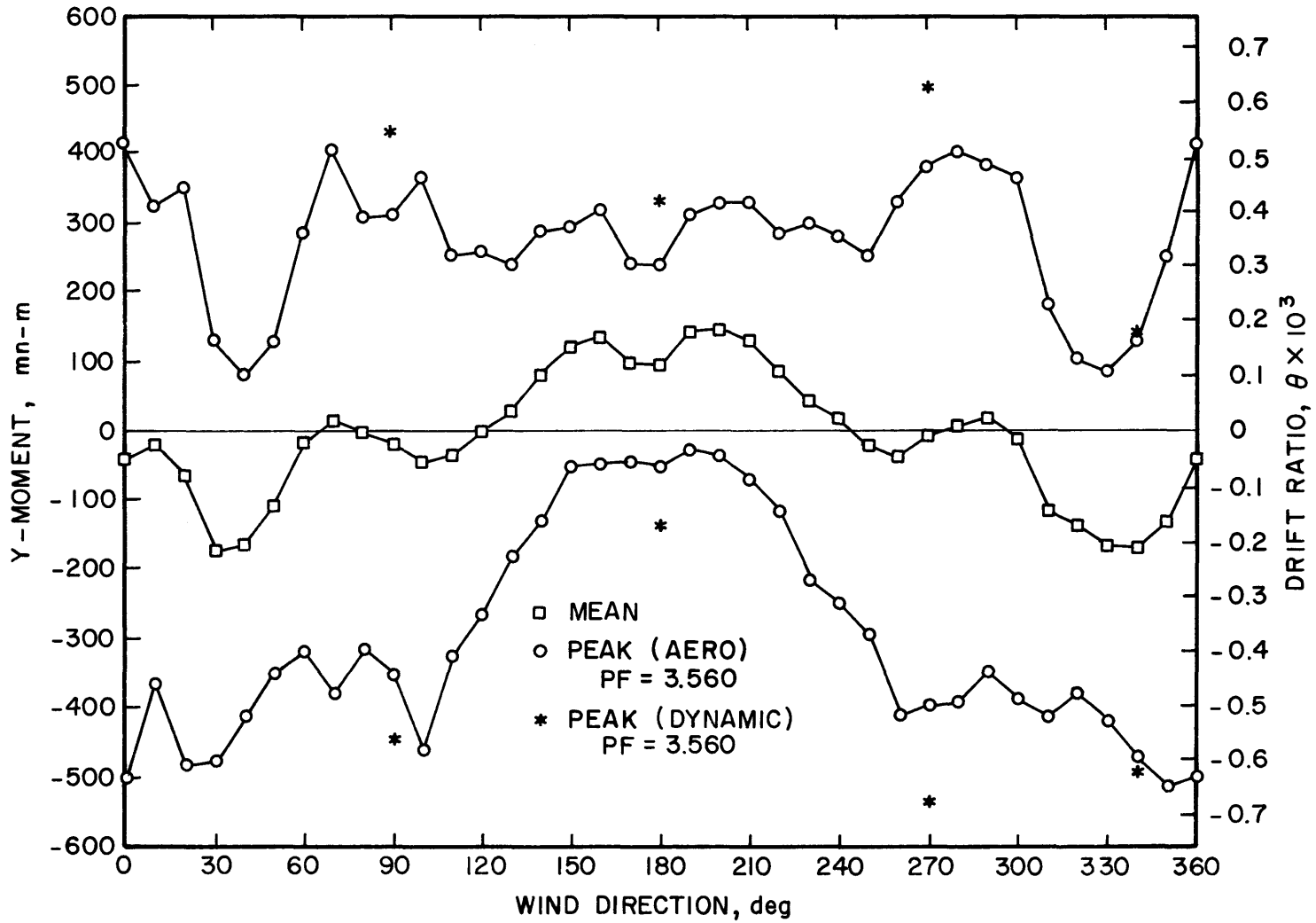


Figure 16b. Base Moment versus Wind Direction for a 100-yr Recurrence Wind (M_y , Business-Tourist Hotel)

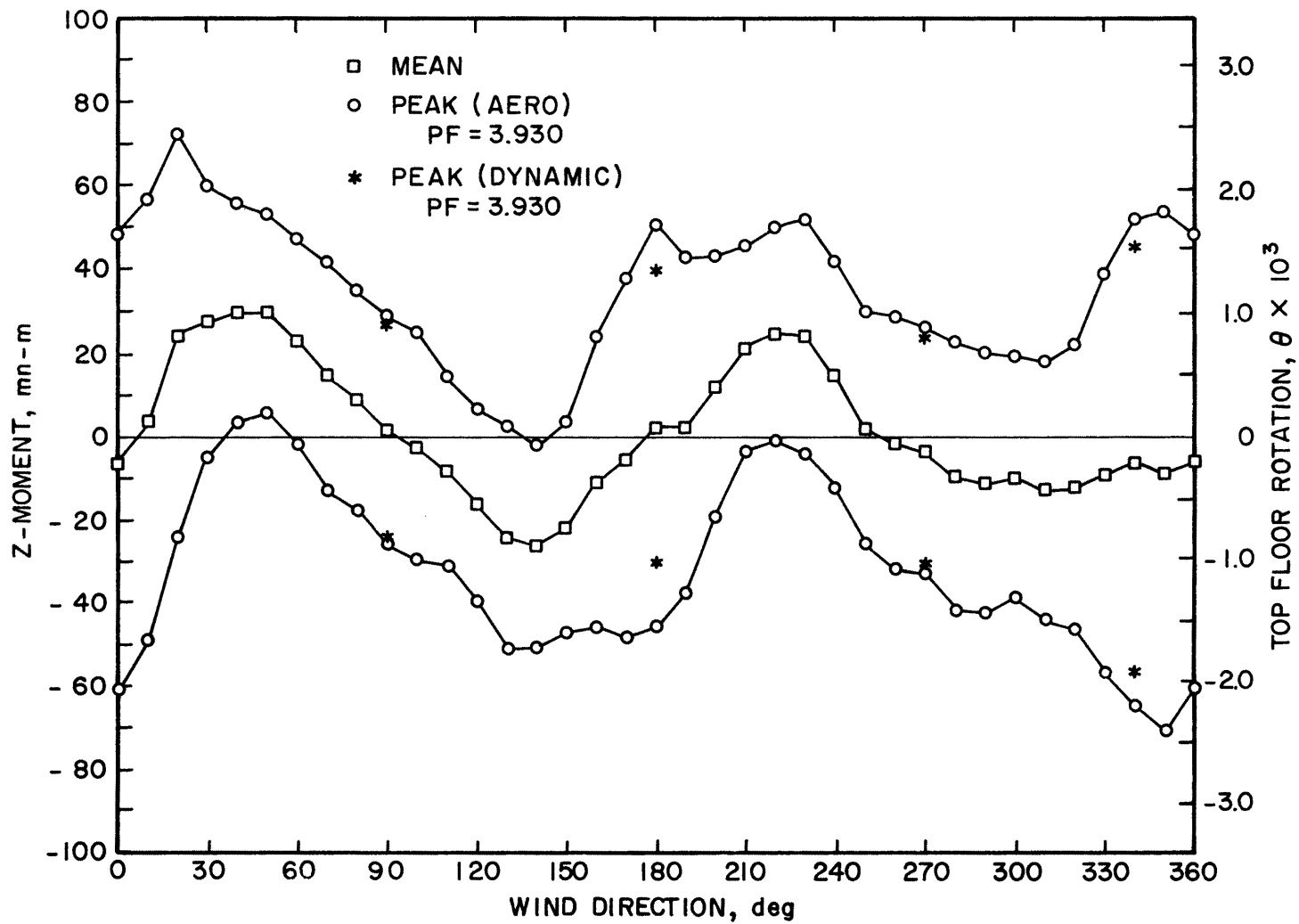


Figure 16c. Base Moment versus Wind Direction for a 100-yr Recurrence Wind (M_z , Business-Tourist Hotel)

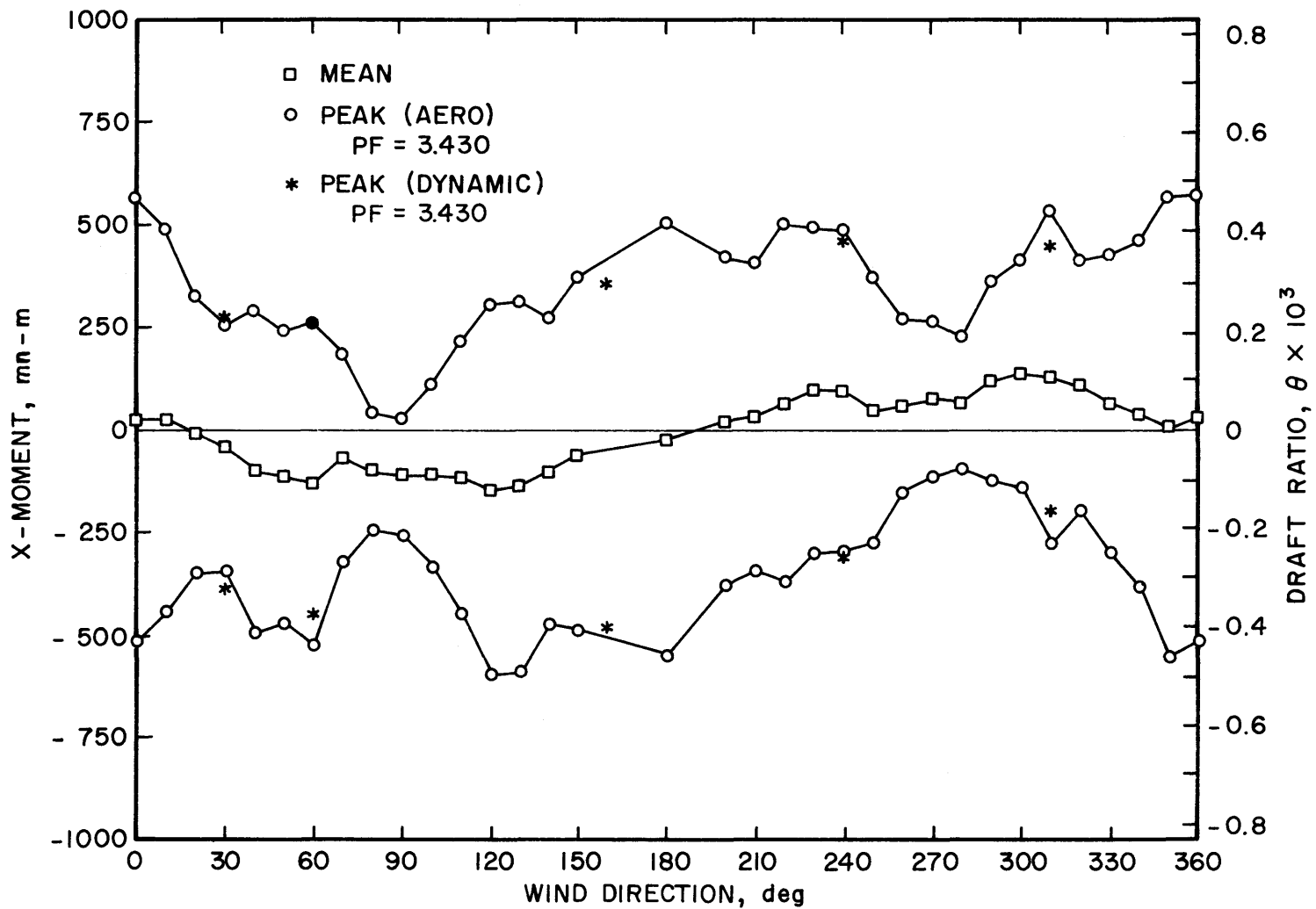


Figure 16d. Base Moment versus Wind Direction for a 100-yr Recurrence Wind (M_x , Convention Hotel)

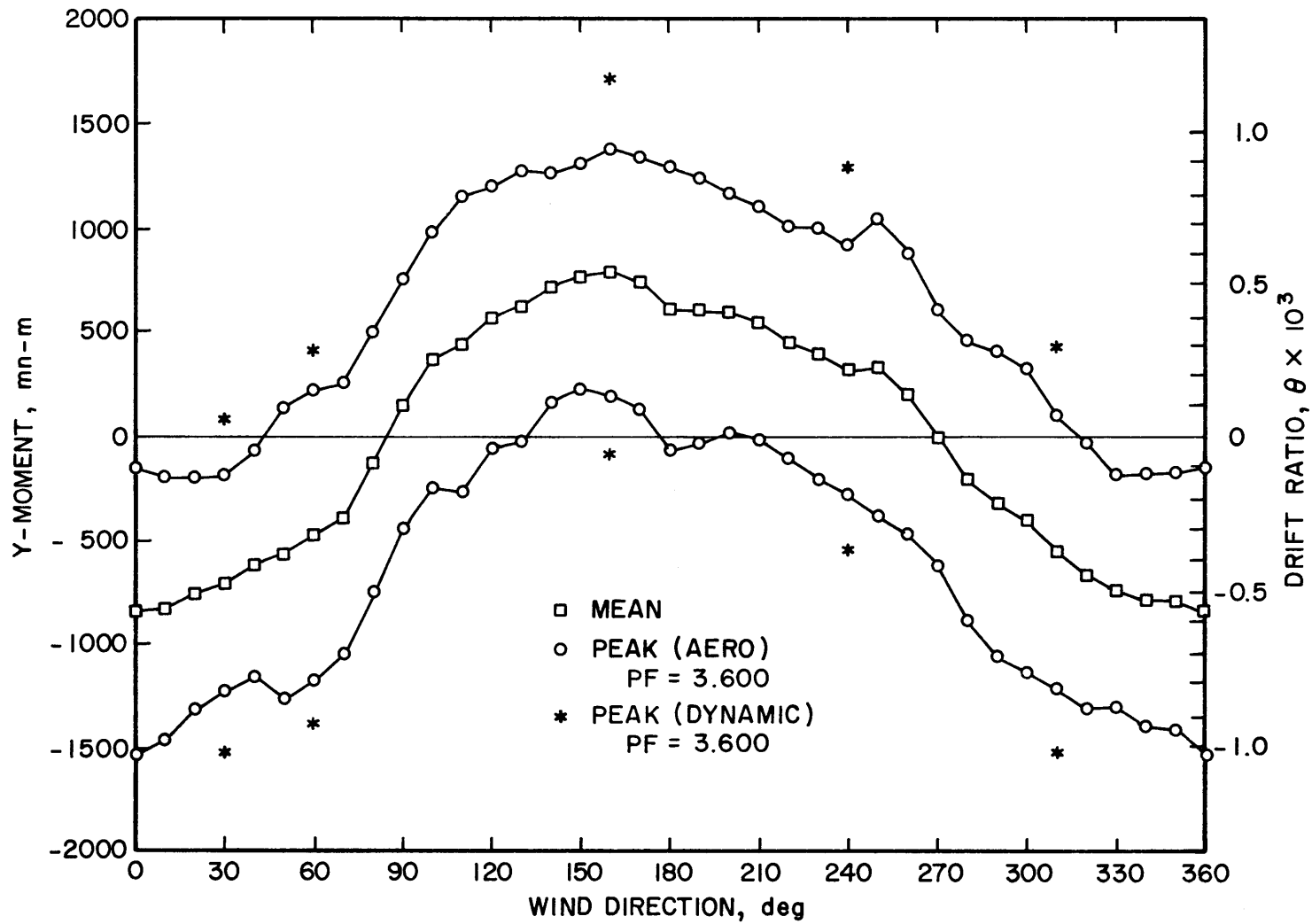


Figure 16e. Base Moment versus Wind Direction for a 100-yr Recurrence Wind (M_y , Convention Hotel)

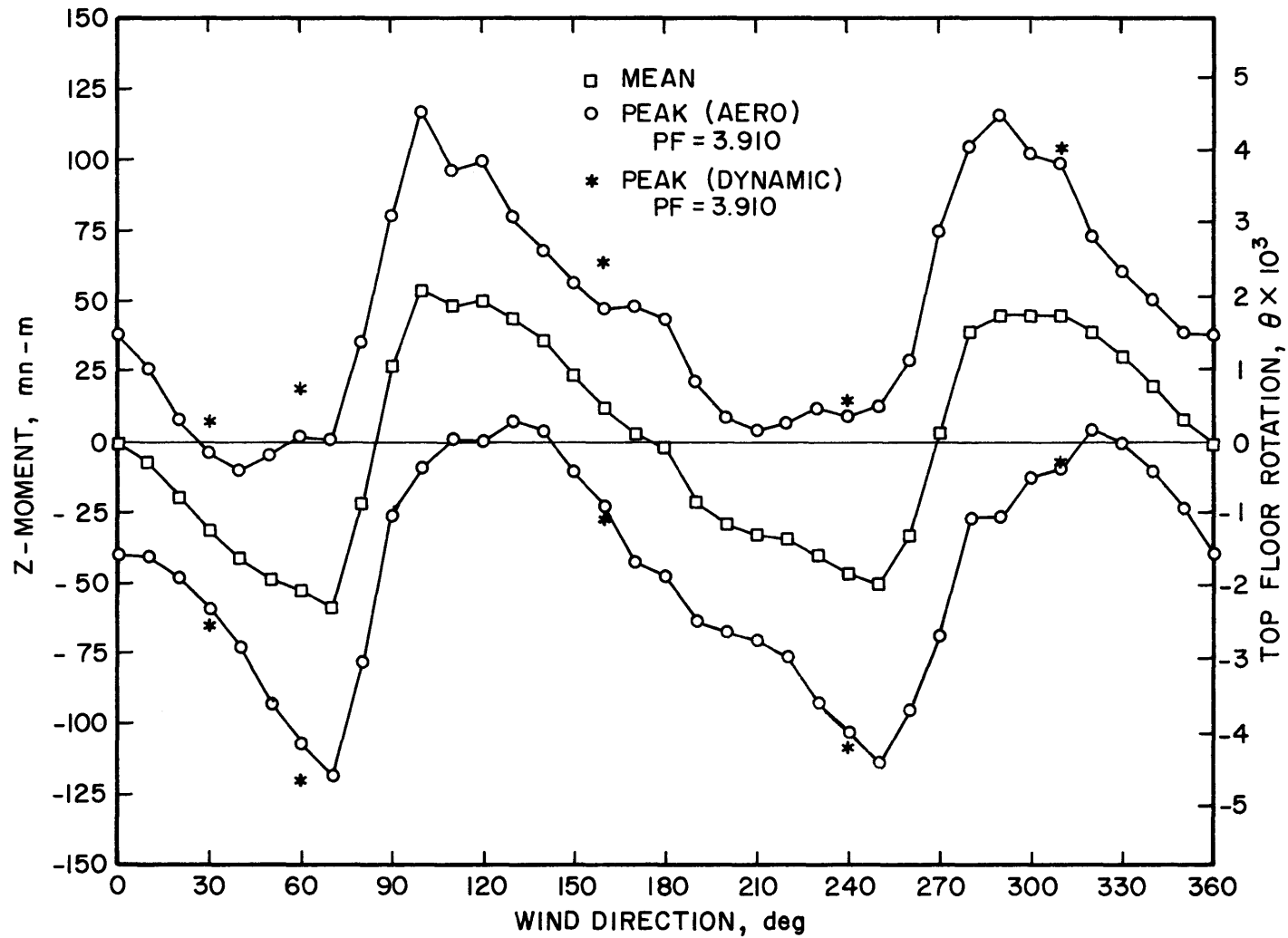


Figure 16f. Base Moment versus Wind Direction for a 100-yr Recurrence Wind (M_z , Convention Hotel)

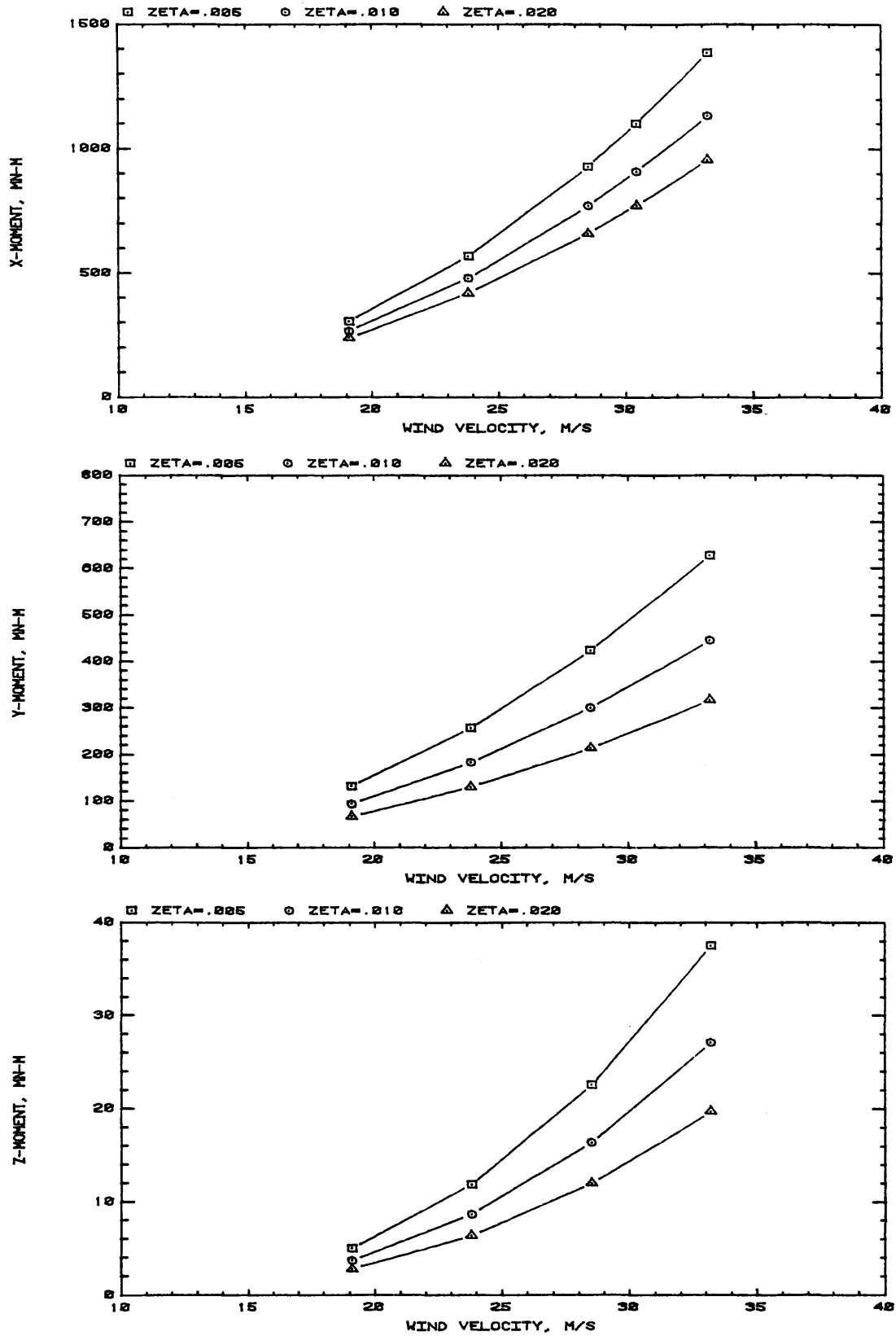


Figure 17a. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Business-Tourist Hotel), Wind Direction 90 Degrees

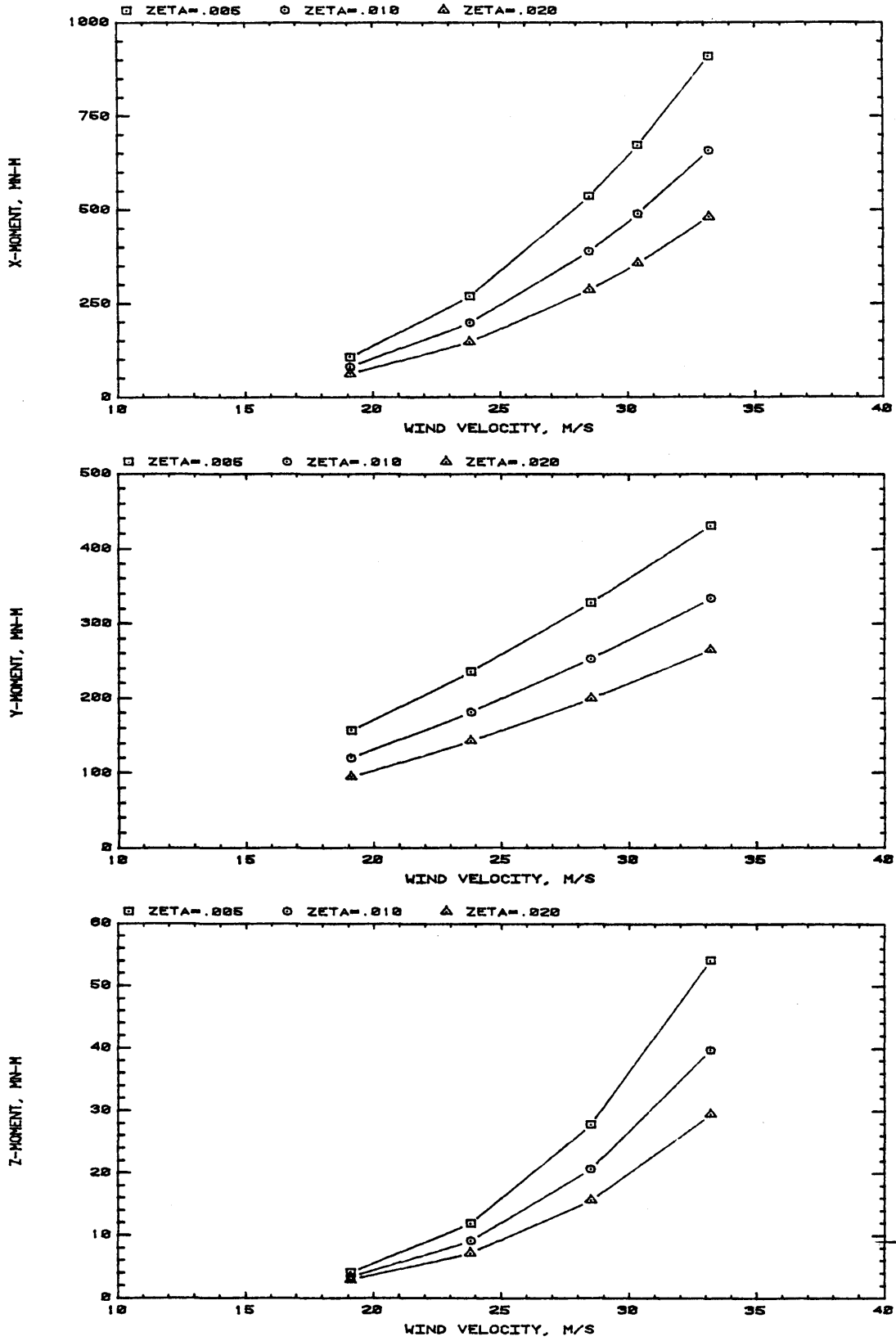


Figure 17b. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Business-Tourist Hotel), Wind Direction 180 Degrees

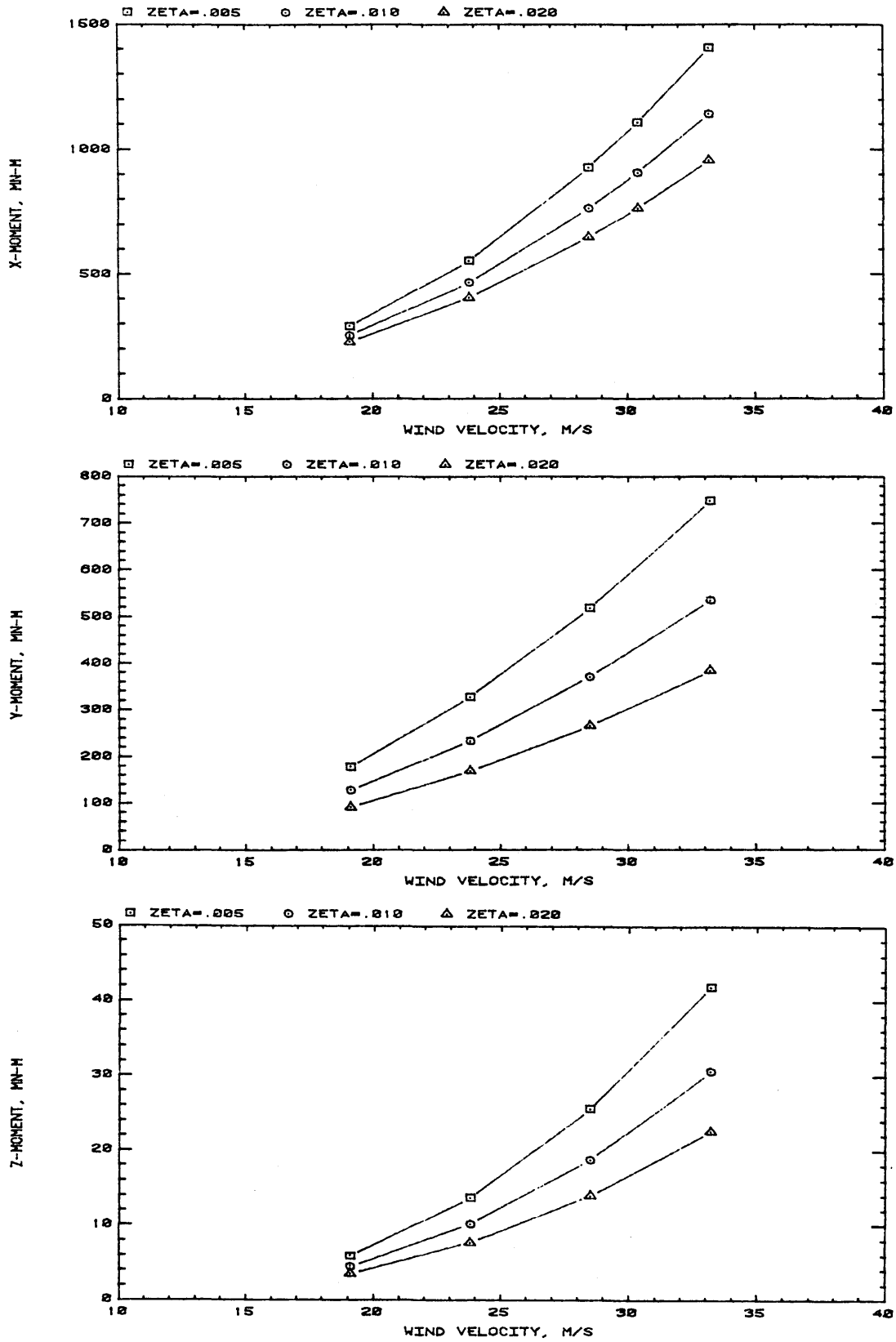


Figure 17c. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Business-Tourist Hotel), Wind Direction 270 Degrees

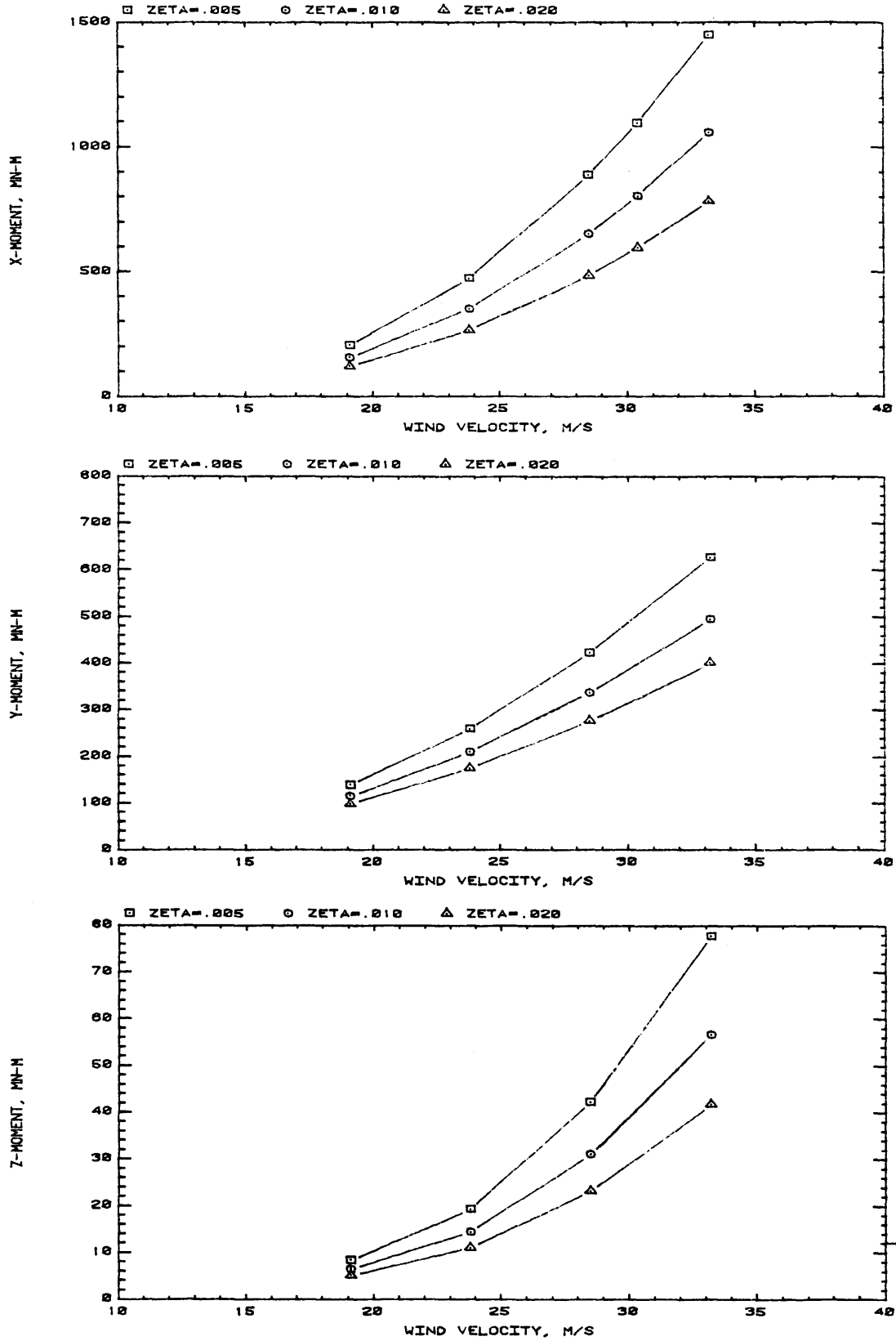


Figure 17d. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Business-Tourist Hotel), Wind Direction 340 Degrees

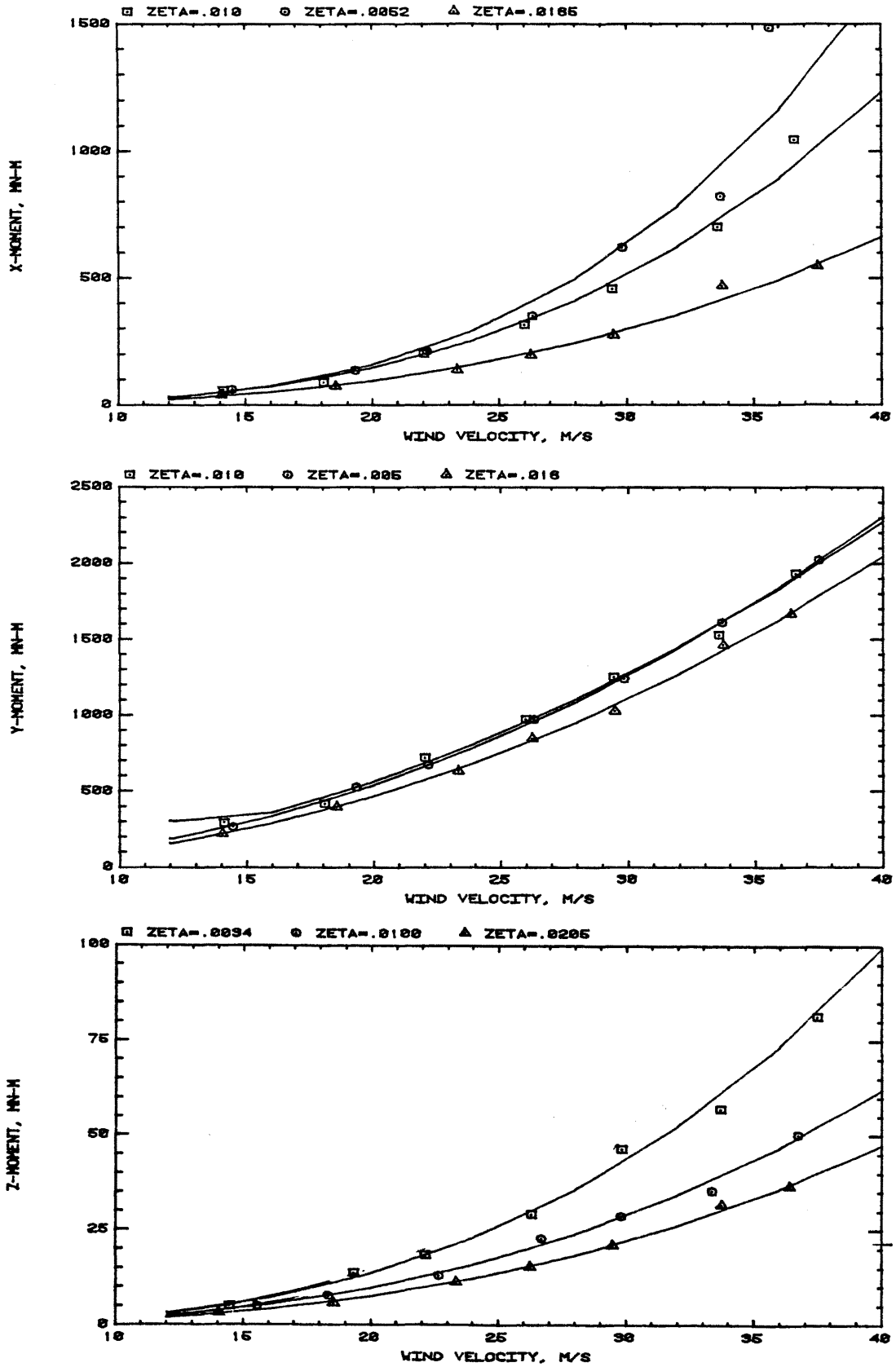


Figure 17e. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Convention Hotel), Wind Direction 0 Degrees

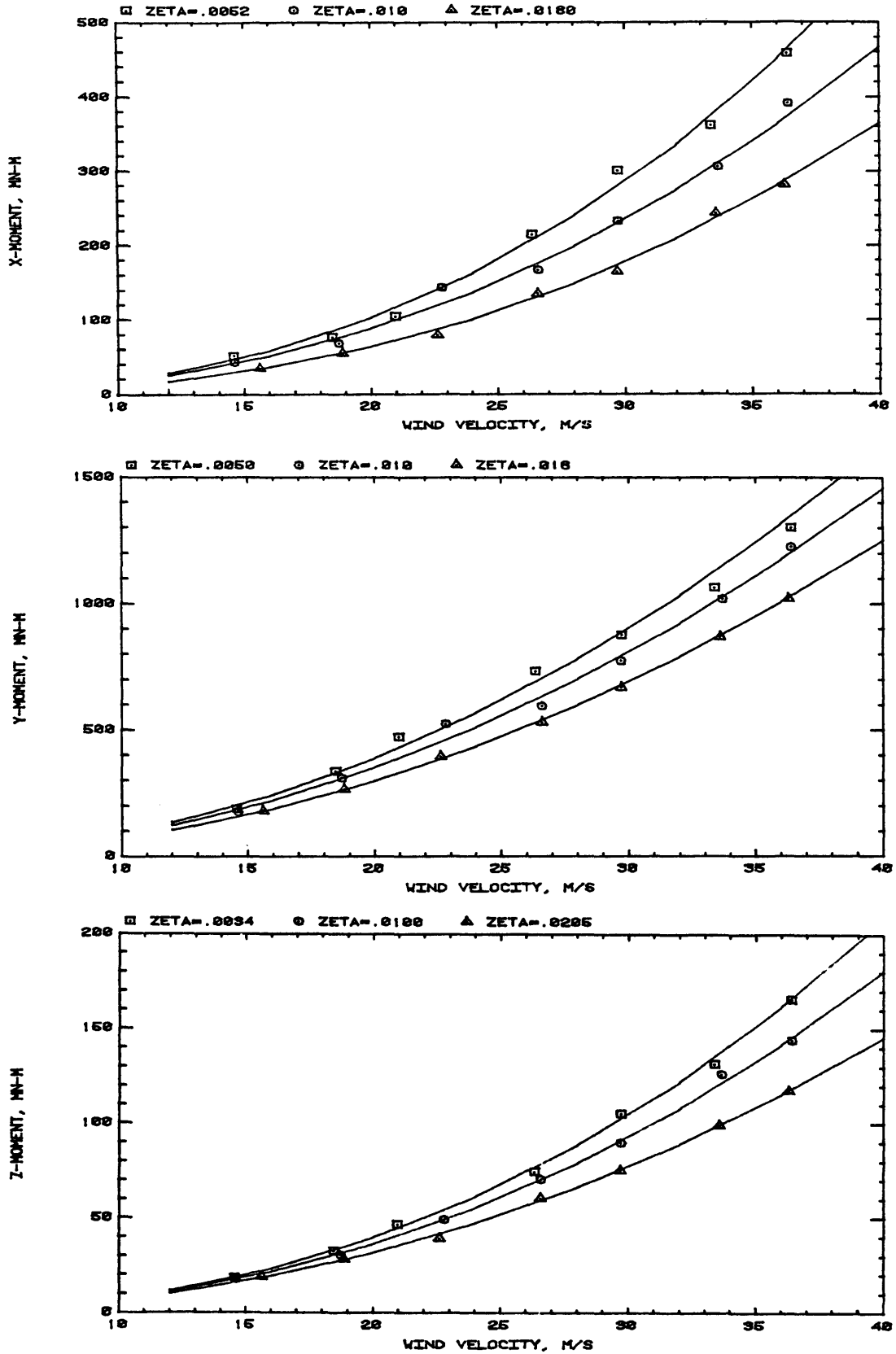


Figure 17f. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Convention Hotel), Wind Direction 70 Degrees

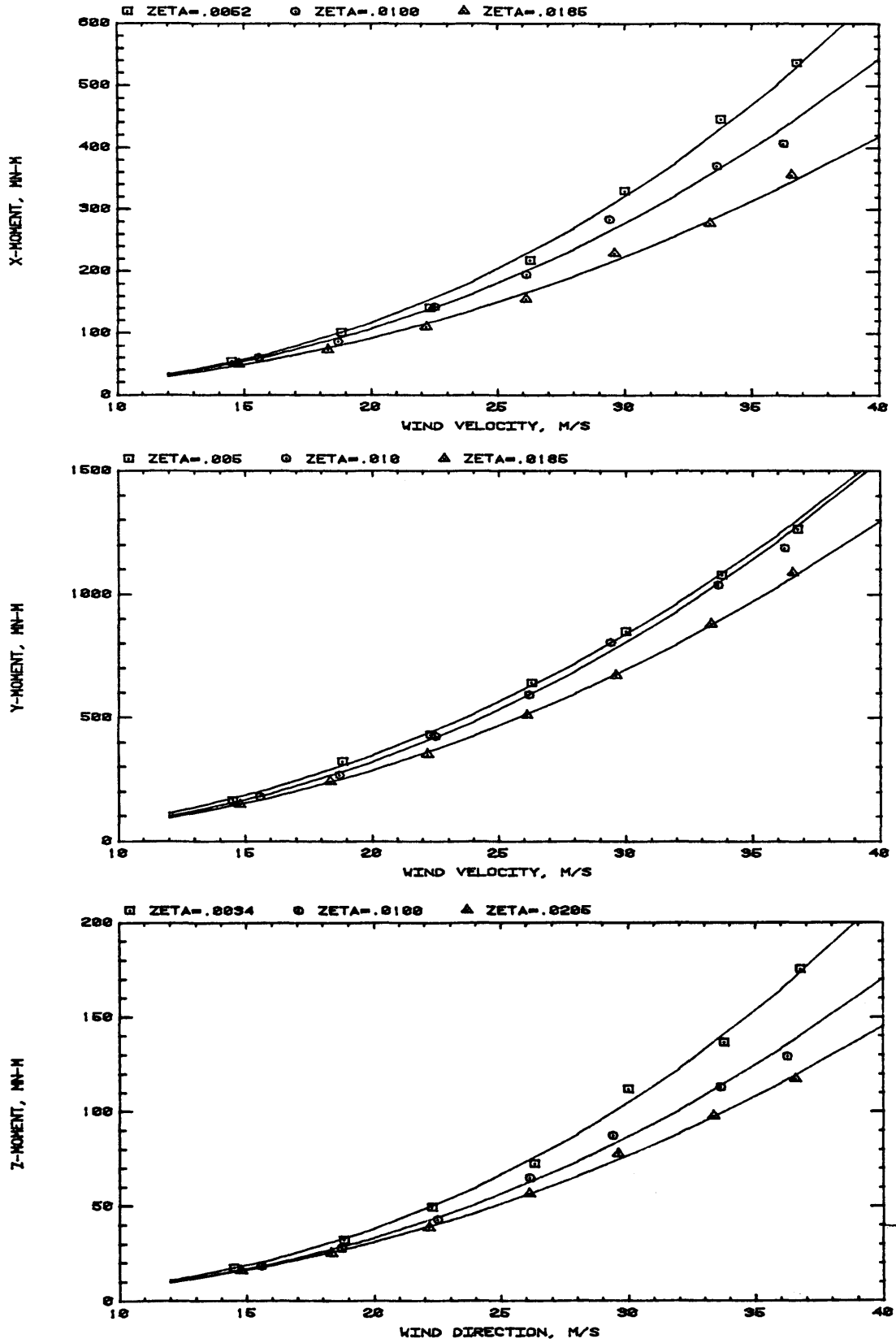


Figure 17g. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Convention Hotel), Wind Direction 100 Degrees

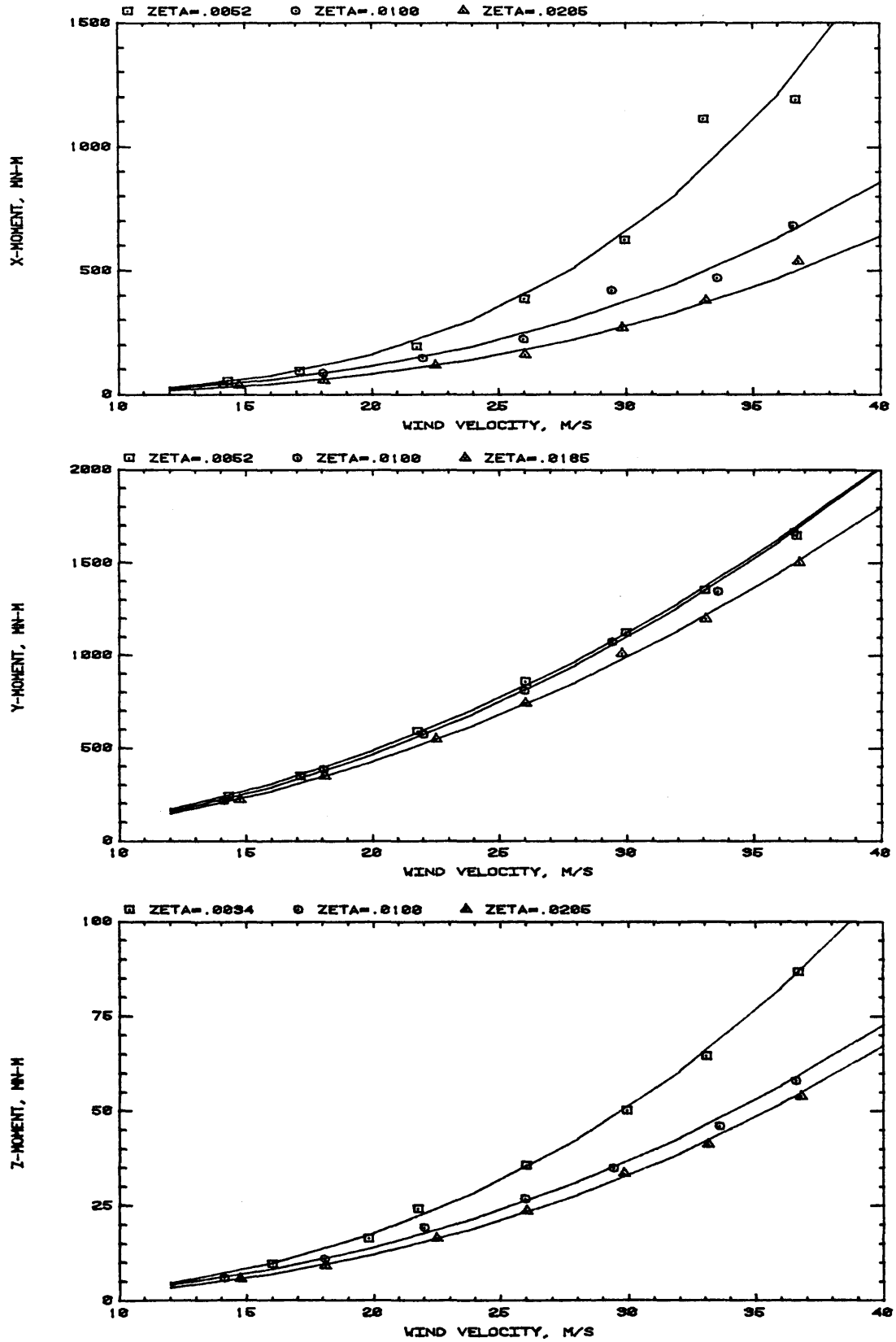


Figure 17h. Peak Base Moment versus Wind Velocity for Various Degrees of Damping (Convention Hotel), Wind Direction 160 Degrees

BUSINESS-TOURIST HOTEL

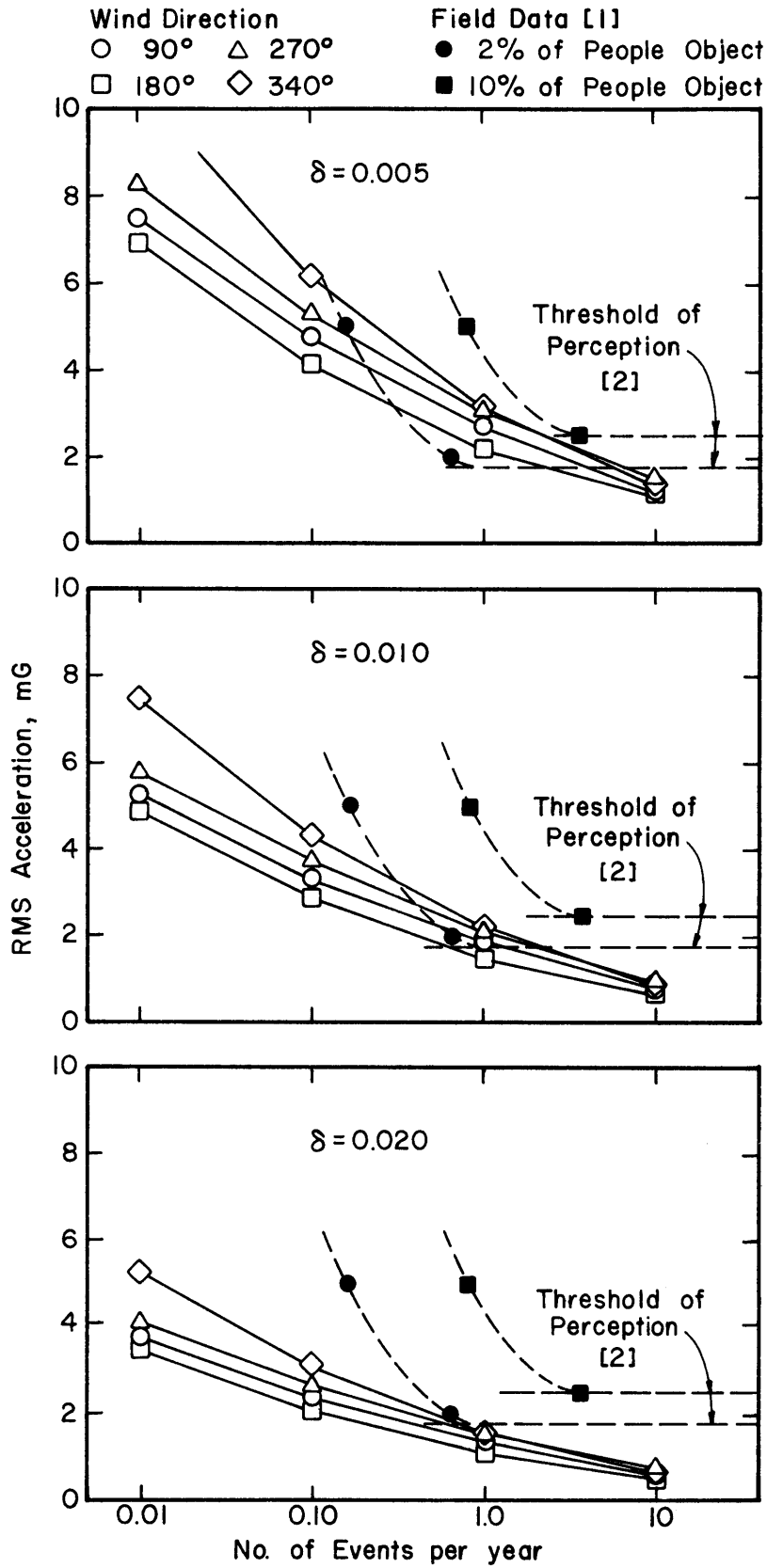


Figure 18a. Top Floor Acceleration versus Frequency of Occurrence (Business-Tourist Hotel)

CONVENTION HOTEL

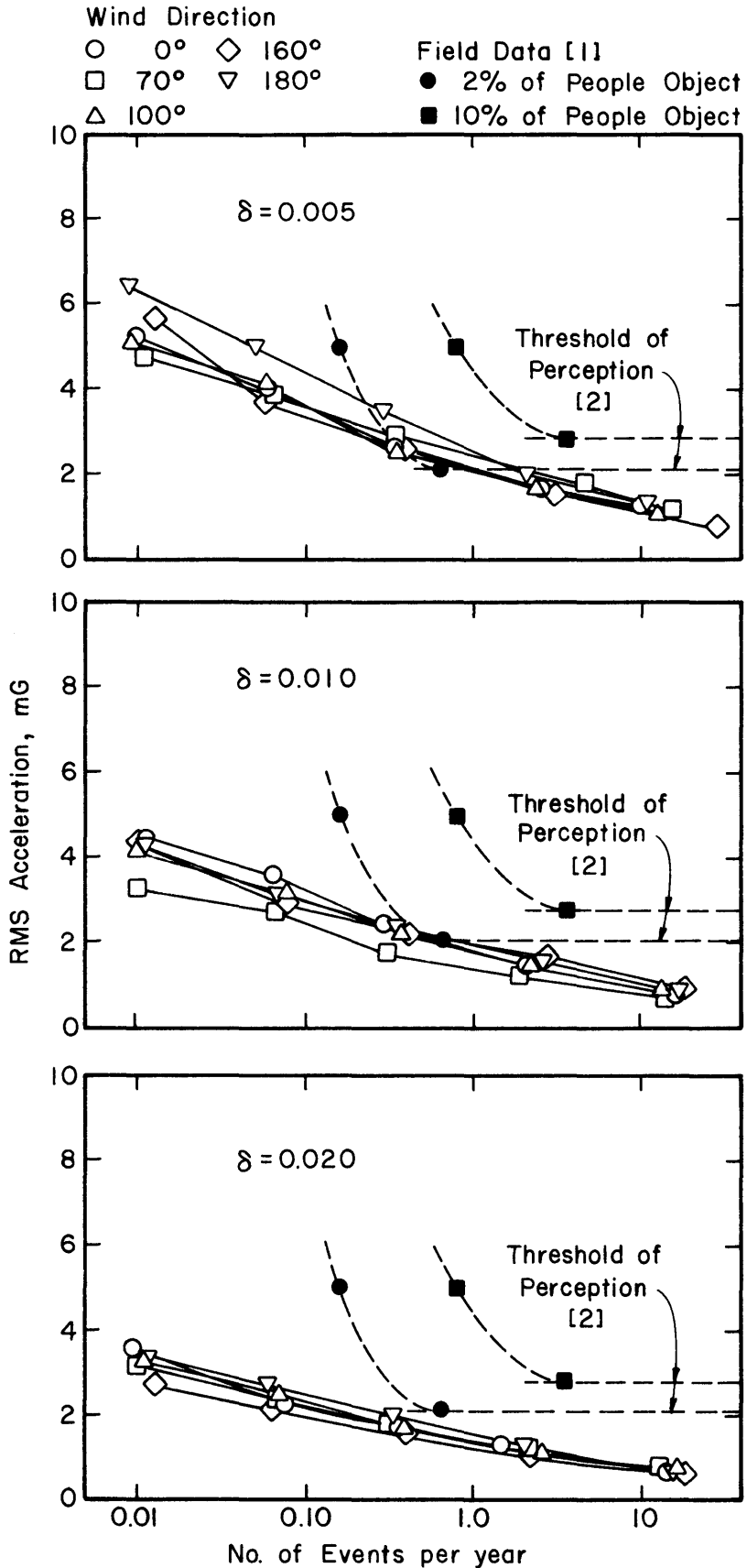


Figure 18b. Top Floor Acceleration versus Frequency of Occurrence (Convention Hotel)

TABLES

TABLE 1

MOTION PICTURE SCENE GUIDE

1. Introduction
2. Purposes for model testing
3. Procedures for conducting tests
4. Specific flow visualization scenes for

RAHARDJA CENTER

Singapore

SOUTH TOWERHIGH PRESSURE AREAS

<u>Run No.</u>	<u>Tap No.</u>	<u>Wind Direction</u>
1	1156	240°
2	1301	270°

PEDESTRIAN AREA HIGH WIND VELOCITIES

<u>Run No.</u>	<u>Ped. Loc. No.</u>	<u>Wind Direction</u>
3	4	45°
4	25	90°

NORTH TOWERHIGH PRESSURE AREAS

<u>Run No.</u>	<u>Tap No.</u>	<u>Wind Direction</u>
5	2124	110°
6	2143	260°

PEDESTRIAN AREA HIGH WIND VELOCITIES

<u>Run No.</u>	<u>Ped. Loc. No.</u>	<u>Wind Direction</u>
7	7	0°
8	21	315°

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHARQJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX

LOCATION 1				LOCATION 2			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	43	9.7	78.2	0 00	31.3	7.8	55.6
22 50	49.2	9.5	78.0	22 50	22.3	6.2	40.9
45 00	41.7	10.5	73.1	45 00	9.0	4.1	21.4
67 50	33.3	10.9	70.9	67 50	28.5	21.6	93.2
90 00	33.3	11.6	68.0	90 00	47.9	11.7	83.1
112 50	33.3	10.7	61.8	112 50	47.7	12.0	83.7
135 00	33.3	9.6	64.8	135 00	45.0	13.6	85.7
157 50	33.3	9.4	71.1	157 50	13.3	9.1	46.7
180 00	33.3	9.9	78.4	180 00	7.1	4.4	20.0
202 50	33.3	9.9	86.7	202 50	7.0	4.4	20.0
225 00	33.3	12.0	89.6	225 00	12.9	5.5	29.9
247 50	33.3	13.3	68.7	247 50	29.3	11.2	76.8
270 00	33.3	13.9	67.9	270 00	46.0	19.0	106.0
292 50	33.3	11.8	61.2	292 50	29.0	10.7	61.1
315 00	33.3	12.9	84.8	315 00	18.0	11.1	51.3
337 50	33.3	10.4	83.7	337 50	20.5	9.8	49.8

LOCATION 3				LOCATION 4			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	31.8	15.5	78.2	0 00	21.3	11.4	55.6
22 50	39.1	16.6	89.1	22 50	31.4	19.0	88.4
45 00	61.1	17.6	114.0	45 00	80.5	11.1	113.8
67 50	46.1	14.8	89.9	67 50	79.7	10.1	110.0
90 00	33.3	14.8	81.7	90 00	64.4	11.9	100.2
112 50	17.4	8.0	41.3	112 50	39.4	12.7	77.4
135 00	15.5	6.9	36.2	135 00	15.8	7.9	39.6
157 50	22.0	10.0	52.0	157 50	35.0	12.4	72.1
180 00	33.4	14.8	79.0	180 00	56.7	12.1	94.9
202 50	50.3	17.7	102.8	202 50	73.0	11.1	106.2
225 00	45.5	17.7	98.0	225 00	75.0	11.4	109.1
247 50	21.4	10.7	53.6	247 50	60.6	13.3	100.5
270 00	33.8	13.9	70.0	270 00	45.7	16.2	94.3
292 50	33.3	10.7	55.3	292 50	15.2	7.6	38.0
315 00	33.3	12.9	48.5	315 00	14.3	5.6	31.1
337 50	33.3	12.4	59.7	337 50	13.5	6.1	31.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX

LOCATION 5				LOCATION 6			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	14.2	9.9	43.9	0.00	16.3	7.3	38.2
2.50	16.1	11.3	50.0	22.50	17.8	9.3	45.6
4.99	68.8	17.3	120.7	45.00	24.5	11.7	53.7
7.49	79.9	11.8	115.4	67.50	49.1	14.0	91.1
9.99	65.7	12.8	104.0	90.00	47.7	12.4	84.9
12.49	39.0	14.5	83.3	112.50	30.2	13.0	69.2
14.99	17.5	13.9	74.8	135.00	19.2	10.0	49.3
17.49	29.5	15.6	84.4	157.50	23.0	11.4	57.3
19.99	57.8	13.0	114.9	180.00	22.2	10.7	54.2
22.49	71.8	14.1	114.9	202.50	21.5	10.6	53.4
24.99	66.9	17.7	109.9	225.00	25.7	11.8	61.2
27.49	54.3	16.6	104.4	247.50	37.3	14.5	80.7
29.99	50.6	15.8	99.8	270.00	39.1	13.6	79.9
32.49	12.8	5.8	30.3	292.50	31.1	11.6	65.8
34.99	13.7	5.6	32.8	315.00	19.7	8.8	46.2
37.50	11.0	5.9	28.6	337.50	15.7	7.3	37.7

LOCATION 7				LOCATION 8			
WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)	WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	15.3	6.3	34.2	0.00	10.7	5.8	28.2
2.50	14.4	5.5	31.8	22.50	14.7	6.8	35.2
4.99	20.0	8.0	45.0	45.00	16.9	8.7	43.2
7.49	16.1	9.9	55.5	67.50	9.8	4.5	23.3
9.99	60.0	17.4	112.0	90.00	37.6	19.5	96.1
12.49	57.8	12.8	104.0	112.50	40.5	14.9	85.3
14.99	38.1	12.2	74.8	135.00	53.9	14.2	96.4
17.49	41.3	11.9	74.8	157.50	53.6	13.7	94.8
19.99	26.2	11.9	66.9	180.00	44.8	16.1	79.2
22.49	17.1	7.7	36.1	202.50	27.9	14.0	60.0
24.99	26.9	13.5	65.4	225.00	18.5	9.8	47.8
27.49	37.5	11.7	74.7	247.50	19.7	9.6	48.3
29.99	46.5	10.7	77.7	270.00	31.2	17.6	82.5
32.49	42.1	9.5	66.6	292.50	48.0	15.8	95.5
34.99	35.5	11.1	46.6	315.00	48.7	15.5	95.2
37.50	16.4	8.9	40.2	337.50	29.2	15.7	66.3

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX

LOCATION 9

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	4 0	18 2	95 2
22 50	15 9	15 9	76 8
44 50	33 3	11 7	59 7
67 50	33 3	9 9	48 6
90 00	33 3	14 9	71 4
112 50	33 3	11 7	55 5
135 00	33 3	11 7	66 6
157 50	33 3	14 9	79 6
180 00	33 3	11 7	58 1
202 50	18 2	8 8	45 3
225 00	18 2	8 8	44 1
247 50	28 6	13 1	65 4
270 00	28 6	14 1	72 0
292 50	41 9	14 9	84 3
315 00	41 9	16 3	90 7
337 50	6 4	12 7	68 6

LOCATION 10

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	19 7	9 2	47 2
22 50	50 1	19 8	108 5
44 50	72 3	15 5	118 8
67 50	51 5	17 9	105 2
90 00	38 2	12 1	75 4
112 50	30 4	10 7	66 6
135 00	17 5	6 4	36 6
157 50	13 4	4 5	28 8
180 00	12 0	4 4	26 0
202 50	12 3	4 7	26 3
225 00	10 5	3 9	24 4
247 50	16 7	6 6	36 6
270 00	14 4	6 7	34 4
292 50	16 1	7 6	36 0
315 00	17 7	8 4	38 0
337 50	17 7	8 2	42 2

LOCATION 11

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	16 9	8 5	42 5
22 50	36 9	12 8	78 4
44 50	33 3	12 7	69 8
67 50	22 0	9 3	48 9
90 00	26 0	12 1	63 1
112 50	16 9	7 2	33 3
135 00	12 1	4 7	26 3
157 50	12 9	4 5	15 3
180 00	12 4	4 2	26 4
202 50	13 8	5 2	29 3
225 00	11 1	4 5	25 3
247 50	17 9	6 6	46 8
270 00	12 9	5 9	30 1
292 50	16 3	6 5	33 0
315 00	16 3	6 5	33 0
337 50	17 8	9 4	46 0

LOCATION 12

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0 00	24 1	12 2	60 7
22 50	21 7	9 9	51 4
44 50	27 2	12 1	63 6
67 50	20 8	10 5	53 3
90 00	28 7	8 9	67 7
112 50	19 5	6 9	49 5
135 00	13 4	6 1	33 4
157 50	12 9	5 5	32 9
180 00	12 4	5 2	32 4
202 50	13 8	5 9	33 8
225 00	13 0	5 4	33 0
247 50	16 9	7 2	43 4
270 00	20 0	8 3	44 8
292 50	20 1	9 0	44 1
315 00	21 0	10 2	47 1
337 50	21 4	15 9	59 2

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 PARADISE CENTER -- BUSINESS TOURIST HOTEL COMPLEX

LOCATION 13

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	23.7	11.9	59.4
22.50	21.4	10.1	51.7
45.00	36.6	13.1	75.8
67.50	23.3	10.9	56.1
90.00	14.5	6.2	33.1
112.50	14.8	5.7	31.9
135.00	17.1	7.7	40.3
157.50	33.2	10.0	63.3
180.00	31.6	9.8	61.0
202.50	38.1	9.0	64.9
225.00	40.5	9.5	69.0
247.50	27.7	13.2	66.7
270.00	22.5	12.0	61.4
292.50	26.6	13.3	65.4
315.00	24.8	11.6	59.5
337.50	27.6	10.6	59.4

LOCATION 14

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	21.6	9.5	50.2
22.50	21.1	10.1	51.3
45.00	31.1	10.1	51.1
67.50	30.9	10.9	53.3
90.00	34.2	8.8	55.8
112.50	36.0	8.8	55.8
135.00	22.2	12.0	49.1
157.50	19.5	7.7	43.2
180.00	14.8	6.3	37.7
202.50	26.6	10.6	53.1
225.00	22.2	13.3	47.1
247.50	28.9	12.6	56.6
270.00	41.7	15.3	68.5
292.50	28.5	14.2	57.1
315.00	15.8	9.1	43.1
337.50	22.1	10.6	53.9

LOCATION 15

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	19.2	8.9	46.0
22.50	25.0	12.0	62.8
45.00	27.3	13.3	67.9
67.50	25.5	12.6	63.2
90.00	23.6	11.5	58.4
112.50	16.9	8.1	41.2
135.00	19.7	9.5	48.2
157.50	36.9	10.4	68.1
180.00	21.1	9.6	49.9
202.50	20.4	10.6	52.2
225.00	32.6	14.8	77.1
247.50	34.9	12.3	61.8
270.00	23.4	11.1	57.0
292.50	20.9	9.8	50.2
315.00	19.8	10.4	51.1
337.50	36.1	16.4	85.3

LOCATION 16

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	23.7	11.3	57.5
22.50	41.2	13.9	82.9
45.00	40.7	11.1	76.1
67.50	38.2	13.7	69.2
90.00	33.3	10.5	68.8
112.50	27.1	14.9	71.9
135.00	43.3	14.3	83.8
157.50	36.5	11.1	69.8
180.00	24.3	10.6	60.6
202.50	42.5	14.7	86.6
225.00	48.5	13.8	93.8
247.50	42.2	14.7	86.6
270.00	27.0	14.1	69.9
292.50	35.5	15.4	79.7
315.00	21.0	10.4	52.3
337.50	27.3	13.6	63.1

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX

LOCATION 17

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	23.6	12.7	61.8
22.50	26.1	10.6	57.9
45.00	18.5	8.7	44.7
67.50	21.0	9.7	50.2
90.00	27.7	9.0	54.6
112.50	39.0	10.0	68.8
135.00	42.0	9.5	70.6
157.50	34.3	13.1	73.6
180.00	14.7	7.0	25.7
202.50	12.8	5.4	28.9
225.00	18.2	7.8	41.7
247.50	17.2	9.2	44.8
270.00	15.7	6.9	36.4
292.50	23.2	14.2	65.6
315.00	33.1	17.6	85.8
337.50	49.8	18.8	106.3

LOCATION 18

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	14.5	6.6	34.1
22.50	34.4	14.3	77.4
45.00	26.9	13.3	66.8
67.50	17.4	8.9	41.3
90.00	17.9	7.9	41.5
112.50	17.9	7.4	40.1
135.00	15.7	6.1	34.1
157.50	20.2	8.8	46.5
180.00	17.2	7.9	41.0
202.50	33.4	15.9	81.0
225.00	44.9	13.1	83.9
247.50	37.7	13.9	77.6
270.00	19.4	11.0	52.4
292.50	12.4	6.4	31.7
315.00	9.9	3.8	21.5
337.50	13.2	5.2	29.8

LOCATION 19

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	18.5	11.3	52.3
22.50	45.9	13.8	87.3
45.00	50.8	9.7	79.9
67.50	61.3	10.8	93.8
90.00	64.6	12.3	101.5
112.50	64.7	12.0	100.6
135.00	44.4	16.3	93.3
157.50	16.3	8.5	41.9
180.00	9.5	5.5	26.1
202.50	17.2	8.7	43.3
225.00	45.8	12.1	82.1
247.50	41.7	15.0	86.6
270.00	64.1	16.7	114.4
292.50	46.1	14.9	90.8
315.00	33.2	12.2	69.9
337.50	31.5	18.0	85.4

LOCATION 20

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	31.4	14.5	74.8
22.50	20.7	11.2	54.3
45.00	14.5	8.0	38.4
67.50	19.3	11.1	52.7
90.00	37.6	17.1	88.8
112.50	54.1	14.6	97.8
135.00	52.0	15.6	98.8
157.50	18.4	10.1	48.7
180.00	17.5	8.3	42.4
202.50	19.2	8.3	44.0
225.00	19.8	9.9	49.3
247.50	30.2	15.4	76.5
270.00	26.9	16.1	75.2
292.50	28.7	14.9	73.3
315.00	21.4	11.2	54.8
337.50	31.4	13.9	73.1

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHAROVA CENTER -- BUSINESS TOURIST HOTEL COMPLEX

LOCATION 21

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0 00	36.3	17.3	88.3
22 50	28.1	15.8	75.5
45 00	24.4	13.3	64.2
67 50	31.8	12.8	70.1
90 00	37.7	16.8	88.1
112 50	34.1	17.6	87.1
135 00	40.9	16.7	90.9
157 50	16.0	9.4	44.0
180 00	23.1	11.1	56.5
202 50	41.9	16.9	92.5
225 00	57.5	16.4	106.6
247 50	44.7	16.9	95.4
270 00	37.5	18.7	93.5
292 50	32.4	19.1	89.7
315 00	31.1	16.4	80.4
337 50	28.7	15.3	74.6

LOCATION 22

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0 00	35.7	18.2	90.3
22 50	44.4	19.5	103.0
45 00	35.7	13.1	75.1
67 50	32.3	12.3	69.1
90 00	39.0	11.4	63.2
112 50	26.6	11.6	61.2
135 00	23.9	12.1	60.0
157 50	14.7	8.1	39.0
180 00	27.0	11.8	65.5
202 50	32.9	11.7	65.5
225 00	21.1	9.8	50.5
247 50	21.5	10.2	52.2
270 00	30.6	13.8	72.0
292 50	23.7	11.2	57.2
315 00	19.9	10.3	50.3
337 50	32.7	17.9	86.3

LOCATION 23

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0 00	26.5	12.2	63.1
22 50	44.0	16.1	92.4
45 00	51.8	9.2	79.4
67 50	68.1	9.5	96.5
90 00	74.2	11.1	107.6
112 50	74.1	13.8	115.6
135 00	71.7	16.3	120.5
157 50	35.2	13.4	75.4
180 00	22.1	8.4	47.4
202 50	37.7	15.7	84.9
225 00	69.3	16.5	118.8
247 50	54.1	16.9	104.8
270 00	63.9	14.1	106.3
292 50	45.0	13.4	85.2
315 00	35.8	11.9	71.7
337 50	28.2	12.5	65.8

LOCATION 24

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0 00	15.4	7.9	39.1
22 50	15.3	6.9	36.0
45 00	21.9	8.9	48.6
67 50	20.1	9.5	48.6
90 00	35.2	13.5	68.8
112 50	23.2	11.6	58.1
135 00	16.0	6.7	39.9
157 50	13.9	6.5	34.4
180 00	16.1	7.1	34.4
202 50	16.3	7.8	36.6
225 00	22.4	10.5	49.9
247 50	18.3	8.5	40.9
270 00	18.7	9.7	43.9
292 50	19.5	10.1	44.2
315 00	15.5	7.9	32.2
337 50	21.5	9.1	46.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX

LOCATION 25

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	8.1	5.0	23.0
22.50	19.7	11.2	53.2
45.00	62.4	38.7	108.7
67.50	74.2	39.6	103.0
90.00	76.4	12.0	112.4
112.50	59.0	14.4	102.1
135.00	48.5	12.2	85.2
157.50	33.9	12.8	72.4
180.00	15.8	7.9	39.5
202.50	24.0	10.7	56.0
225.00	43.3	16.1	91.7
247.50	42.9	14.4	86.0
270.00	48.1	12.5	85.7
292.50	45.6	14.0	87.6
315.00	36.3	11.4	70.5
337.50	18.1	10.9	50.8

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX

* * GREATEST VALUES * *

UMEAN/UINF (PERCENT)					URMS/UINF (PERCENT)					UMEAN+3*RMS/UINF (PERCENT)				
LOC	AZ	MEAN	RMS	M+3RMS	LOC	AZ	MEAN	RMS	M+3RMS	LOC	AZ	MEAN	RMS	M+3RMS
4	45.0	80.5	11.1	113.8	2	67.5	28.5	21.6	93.2	5	45.0	68.8	17.3	120.7
5	67.5	79.9	11.8	115.4	10	22.5	50.1	19.8	109.5	23	135.0	71.7	16.3	120.5
4	67.5	79.7	10.1	110.0	22	22.5	44.4	19.5	103.0	5	225.0	68.9	17.0	119.9
25	90.0	76.4	12.0	112.4	8	90.0	37.6	19.5	96.1	23	225.0	69.3	16.5	118.8
4	225.0	75.0	11.4	109.1	21	292.5	32.4	19.1	89.7	10	45.0	72.3	15.5	118.8
25	67.5	74.2	9.6	103.0	4	22.5	31.4	19.0	88.4	23	112.5	74.1	13.8	115.6
23	90.0	74.2	11.1	107.6	17	337.5	49.8	18.8	106.3	5	67.5	79.9	11.8	115.4
23	112.5	74.1	13.8	115.6	21	270.0	37.5	18.7	93.5	19	270.0	64.1	16.7	114.4
4	202.5	73.0	11.1	106.2	9	0.0	40.5	18.2	95.2	5	202.5	71.8	14.1	114.2
10	45.0	72.3	15.5	118.8	22	0.0	35.7	18.2	90.3	3	45.0	61.3	17.6	114.0

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHARDJA CENTER, CONVENTION HOTEL COMPLEX

LOCATION 26

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	37.3	14.7	81.4
22.50	54.3	18.5	109.9
45.00	45.2	12.9	83.8
67.50	48.9	9.1	76.1
90.00	46.3	7.0	67.4
112.50	44.2	7.6	67.1
135.00	36.1	9.6	64.8
157.50	21.9	10.2	52.6
180.00	21.2	10.0	51.3
202.50	64.0	20.5	125.3
225.00	69.5	18.9	126.3
247.50	61.8	15.8	109.3
270.00	55.9	19.2	85.5
292.50	55.9	12.6	93.4
315.00	49.9	11.4	84.1
337.50	55.6	17.3	106.9

LOCATION 27

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	60.3	15.8	107.8
22.50	69.1	13.2	108.6
45.00	65.7	13.3	105.8
67.50	48.4	13.7	81.5
90.00	19.4	9.9	45.1
112.50	11.1	11.1	56.9
135.00	35.7	11.3	69.6
157.50	5.5	10.6	71.4
180.00	3.7	12.0	59.2
202.50	24.9	13.4	65.2
225.00	22.8	19.1	99.9
247.50	50.0	18.7	100.1
270.00	19.3	8.2	44.0
292.50	18.8	8.5	44.4
315.00	18.4	9.1	45.8
337.50	23.5	12.9	62.1

LOCATION 28

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	31.1	13.0	70.2
22.50	22.0	18.2	46.4
45.00	18.5	7.2	39.9
67.50	14.9	6.2	33.6
90.00	15.2	6.6	34.9
112.50	13.2	5.9	31.0
135.00	10.1	3.4	20.2
157.50	12.9	5.2	27.7
180.00	11.1	4.7	25.3
202.50	14.2	6.1	32.6
225.00	18.0	7.9	41.7
247.50	14.8	6.6	34.5
270.00	8.5	2.8	17.0
292.50	17.2	5.4	33.2
315.00	25.9	10.3	56.1
337.50	28.9	12.5	66.5

LOCATION 29

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	33.0	19.9	92.6
22.50	29.6	13.6	70.6
45.00	49.1	12.6	86.0
67.50	35.1	14.5	78.7
90.00	21.3	16.2	59.0
112.50	15.7	7.3	37.5
135.00	19.8	8.1	44.1
157.50	30.4	8.9	57.2
180.00	28.3	8.5	53.7
202.50	29.3	10.7	61.4
225.00	30.0	12.7	68.1
247.50	24.0	10.5	55.6
270.00	10.8	4.5	24.3
292.50	13.5	5.8	30.8
315.00	26.7	10.4	52.0
337.50	22.6	13.6	61.7

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHARDJA CENTER, CONVENTION HOTEL COMPLEX

LOCATION 30

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	65.8	11.3	99.7
22.50	63.5	11.1	96.8
45.00	55.8	11.7	90.9
67.50	32.2	13.7	73.5
90.00	23.5	9.6	52.4
112.50	41.7	11.4	75.8
135.00	62.2	11.8	97.6
157.50	66.0	10.2	96.6
180.00	60.5	10.7	92.7
202.50	52.0	12.3	88.9
225.00	31.2	12.6	49.7
247.50	19.4	7.7	32.5
270.00	16.7	7.0	37.7
292.50	21.7	7.8	45.2
315.00	43.8	13.7	85.0
337.50	66.5	11.8	101.9

LOCATION 31

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	82.8	10.9	115.6
22.50	80.7	12.0	116.5
45.00	58.8	14.2	101.3
67.50	31.0	13.0	70.1
90.00	14.9	7.1	36.1
112.50	39.6	12.8	77.9
135.00	64.0	14.2	106.7
157.50	76.0	13.0	115.0
180.00	80.6	13.4	120.8
202.50	68.3	14.6	112.2
225.00	36.5	18.1	90.8
247.50	22.3	10.5	53.7
270.00	12.6	5.2	28.2
292.50	23.0	10.4	60.3
315.00	56.6	15.6	103.5
337.50	78.3	10.9	119.9

LOCATION 32

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	46.6	9.7	75.9
22.50	38.5	10.3	69.6
45.00	22.8	10.8	35.2
67.50	17.4	7.3	39.1
90.00	38.3	11.9	74.0
112.50	58.3	10.6	90.0
135.00	61.7	10.2	82.3
157.50	38.8	10.9	71.5
180.00	32.8	13.5	73.3
202.50	20.1	9.2	47.6
225.00	29.5	11.8	63.5
247.50	18.5	8.5	44.1
270.00	11.9	4.3	24.7
292.50	14.2	4.8	28.8
315.00	55.6	7.3	76.8
337.50	59.2	5.9	76.9

LOCATION 33

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	41.5	8.1	65.8
22.50	28.2	9.1	55.4
45.00	21.4	8.5	47.0
67.50	33.2	12.9	71.9
90.00	51.9	12.6	89.7
112.50	31.9	16.4	81.1
135.00	11.3	3.5	21.7
157.50	11.4	3.0	20.4
180.00	9.2	2.7	17.3
202.50	18.2	9.6	45.2
225.00	18.6	6.6	44.4
247.50	14.3	7.3	36.0
270.00	7.6	1.9	13.4
292.50	35.9	10.6	67.6
315.00	50.0	4.0	64.4
337.50	51.7	5.4	67.9

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 KAHARUJA CENTER, CONVENTION HOTEL COMPLEX

LOCATION 34

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	32.3	8.5	57.8
22.50	27.0	9.1	54.3
45.00	20.4	8.8	45.5
67.50	30.7	10.7	62.2
90.00	50.2	12.7	88.3
112.50	53.3	15.3	99.9
135.00	31.9	8.1	56.2
157.50	18.7	3.9	30.4
180.00	19.3	4.1	31.5
202.50	16.6	4.1	34.8
225.00	21.1	10.2	51.6
247.50	28.8	9.0	55.4
270.00	17.6	2.9	26.4
292.50	23.3	4.0	39.2
315.00	30.7	7.7	47.7
337.50	33.1	7.4	55.3

LOCATION 35

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	13.0	6.0	31.4
22.50	24.3	10.7	56.3
45.00	42.2	12.1	78.5
67.50	43.2	14.1	85.6
90.00	17.0	8.9	43.8
112.50	13.6	9.9	39.2
135.00	16.6	4.9	46.0
157.50	12.3	4.9	37.1
180.00	10.5	4.0	32.7
202.50	8.4	2.9	27.2
225.00	24.3	10.6	55.6
247.50	25.4	10.5	59.9
270.00	44.3	12.2	80.9
292.50	52.9	11.8	88.3
315.00	47.4	12.2	84.1
337.50	20.9	10.1	51.2

LOCATION 36

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	45.3	13.5	85.8
22.50	24.0	5.7	41.1
45.00	14.6	3.4	24.4
67.50	10.6	3.9	22.3
90.00	9.5	4.0	21.4
112.50	11.7	5.3	27.5
135.00	15.5	5.6	32.6
157.50	12.1	4.4	25.9
180.00	24.1	8.8	49.1
202.50	11.1	3.4	45.3
225.00	21.9	9.5	50.4
247.50	38.8	10.6	70.8
270.00	39.9	11.1	74.9
292.50	23.0	8.1	47.7
315.00	21.7	8.8	51.1
337.50	39.6	13.7	80.8

LOCATION 37

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	49.5	13.9	91.2
22.50	63.7	13.0	102.8
45.00	61.7	10.7	93.8
67.50	58.1	18.7	105.2
90.00	43.2	11.0	76.1
112.50	55.7	12.8	94.0
135.00	61.6	16.1	100.0
157.50	55.8	13.8	93.6
180.00	32.6	17.2	84.4
202.50	25.6	12.1	61.1
225.00	48.5	14.9	93.2
247.50	51.4	14.0	93.3
270.00	64.1	12.4	101.5
292.50	66.8	14.7	110.5
315.00	44.8	12.8	93.3
337.50	46.6	12.7	84.7

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHARDJA CENTER, CONVENTION HOTEL COMPLEX

LOCATION 38

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	44.6	14.3	87.5
22.50	39.5	17.7	92.6
45.00	26.1	13.6	66.8
67.50	43.0	13.8	84.2
90.00	24.7	12.0	60.7
112.50	39.1	18.9	95.9
135.00	28.6	14.9	73.3
157.50	35.3	14.9	80.0
180.00	41.1	14.6	85.4
202.50	27.9	11.3	61.6
225.00	40.2	16.1	94.5
247.50	43.8	15.2	89.9
270.00	47.2	14.2	91.3
292.50	42.1	13.1	81.3
315.00	31.9	11.0	64.8
337.50	25.6	9.9	55.2

LOCATION 39

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	18.8	10.5	50.3
22.50	36.3	18.2	90.8
45.00	27.3	15.0	72.3
67.50	28.2	11.3	62.2
90.00	15.3	7.4	37.6
112.50	35.7	15.4	82.0
135.00	54.0	24.8	128.4
157.50	44.4	20.6	106.1
180.00	26.4	14.0	68.5
202.50	21.2	11.5	55.7
225.00	25.7	13.9	67.4
247.50	17.8	9.6	46.6
270.00	19.1	10.7	51.2
292.50	16.9	9.2	44.6
315.00	13.4	7.0	34.4
337.50	13.8	7.2	35.2

LOCATION 40

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	48.1	13.5	88.7
22.50	47.8	17.0	96.7
45.00	58.8	18.1	113.1
67.50	34.3	16.2	82.8
90.00	40.3	10.9	73.3
112.50	48.6	15.0	93.7
135.00	48.5	17.5	101.1
157.50	33.3	16.6	80.3
180.00	56.3	14.0	100.3
202.50	50.8	13.1	90.1
225.00	56.9	14.7	100.9
247.50	29.3	12.4	66.5
270.00	33.0	13.6	73.8
292.50	28.3	13.4	68.5
315.00	29.4	11.7	64.7
337.50	34.8	12.7	73.0

LOCATION 41

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	26.1	12.3	62.9
22.50	29.2	13.6	69.9
45.00	74.3	21.1	137.9
67.50	71.3	23.4	141.3
90.00	21.4	11.8	56.7
112.50	15.6	7.4	37.6
135.00	16.8	7.8	40.0
157.50	14.6	7.3	36.6
180.00	15.1	8.3	40.0
202.50	23.0	12.7	61.1
225.00	23.2	14.1	68.6
247.50	23.0	12.1	59.9
270.00	34.1	17.6	87.5
292.50	20.3	9.9	50.1
315.00	35.8	20.6	97.6
337.50	41.7	22.3	108.6

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHARDJA CENTER, CONVENTION HOTEL COMPLEX

LOCATION 42

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	32.8	14.1	77.5
2.50	34.0	14.0	80.5
4.99	32.7	14.3	83.9
6.75	32.2	14.1	81.1
9.00	34.4	11.4	86.6
11.25	38.0	11.3	89.0
13.50	35.5	13.1	77.6
15.75	38.7	14.4	87.7
18.00	39.9	13.4	77.1
20.25	39.0	13.6	81.1
22.50	39.0	13.5	85.0
24.75	39.0	13.7	88.0
27.00	37.7	13.1	84.1
29.25	37.4	13.0	83.3
31.50	37.7	13.0	83.3
33.75	38.0	13.0	83.3

LOCATION 43

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	40.3	21.9	105.9
2.50	43.5	20.5	101.9
4.99	72.1	20.2	133.5
6.75	44.2	20.3	134.1
9.00	41.2	15.7	78.8
11.25	43.9	15.7	78.8
13.50	33.7	10.7	55.0
15.75	14.5	9.0	38.4
18.00	13.2	7.3	35.0
20.25	21.1	12.0	57.0
22.50	23.0	9.8	52.5
24.75	25.3	9.3	53.3
27.00	27.6	11.5	62.0
29.25	34.0	17.3	86.5
31.50	46.3	19.5	94.7
33.75	44.5	22.0	110.6

LOCATION 44

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	12.2	6.6	31.1
2.50	14.9	6.3	30.5
4.99	23.1	12.6	67.7
6.75	22.3	13.2	67.7
9.00	14.0	7.1	33.1
11.25	24.0	10.3	55.0
13.50	26.6	10.7	55.0
15.75	39.9	13.9	86.6
18.00	45.1	13.3	77.0
20.25	43.5	13.3	80.9
22.50	47.1	13.3	80.9
24.75	33.6	11.0	60.4
27.00	17.1	6.9	30.5
29.25	16.0	6.9	30.5
31.50	16.7	6.9	30.5
33.75	15.4	6.4	27.7

LOCATION 45

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	70.0	20.9	132.7
2.50	39.4	17.0	81.4
4.99	19.3	11.3	53.1
6.75	14.6	6.0	44.9
9.00	18.3	9.1	45.6
11.25	47.4	12.2	83.9
13.50	68.2	15.4	114.0
15.75	67.6	16.0	115.0
18.00	34.0	15.4	66.6
20.25	39.9	13.9	81.6
22.50	23.0	10.5	54.9
24.75	26.4	12.3	63.3
27.00	37.7	16.1	85.9
29.25	49.9	21.5	121.0
31.50	62.3	18.6	140.0
33.75	62.3	16.4	131.6

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 RAHARWA CENTER, CONVENTION HOTEL COMPLEX

LOCATION 46

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	58.9	13.5	105.4
22.50	72.3	16.6	122.1
45.00	26.6	16.2	75.1
67.50	19.9	10.0	50.0
90.00	20.4	11.1	53.7
112.50	16.1	7.1	37.5
135.00	17.9	9.7	43.9
157.50	33.8	20.8	97.5
180.00	55.7	19.0	114.1
202.50	70.3	16.0	118.2
225.00	70.9	16.8	121.3
247.50	61.1	16.8	111.4
270.00	66.2	18.3	121.0
292.50	46.3	20.9	108.9
315.00	24.8	11.6	59.7
337.50	42.2	13.8	83.6

LOCATION 47

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	22.8	8.9	43.4
22.50	21.3	8.7	47.5
45.00	16.8	8.2	41.3
67.50	14.6	6.8	34.9
90.00	9.4	3.4	19.7
112.50	10.5	3.9	21.9
135.00	14.8	7.0	35.7
157.50	20.1	9.4	45.4
180.00	17.7	7.8	41.0
202.50	20.9	9.7	49.0
225.00	25.7	10.3	56.3
247.50	16.2	7.9	37.9
270.00	17.5	7.3	39.3
292.50	19.0	7.4	40.2
315.00	24.4	8.8	50.8
337.50	26.6	10.6	58.3

LOCATION 48

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	13.1	5.6	29.7
22.50	20.1	10.9	52.7
45.00	24.6	10.4	55.7
67.50	13.6	5.1	28.8
90.00	17.7	7.7	37.7
112.50	13.5	4.9	28.2
135.00	16.8	9.3	41.1
157.50	18.5	9.8	46.3
180.00	16.1	7.2	35.3
202.50	12.6	5.2	28.0
225.00	15.3	7.8	36.8
247.50	13.9	6.6	30.6
270.00	16.9	7.7	40.1
292.50	15.7	7.5	38.3
315.00	13.8	4.7	30.9
337.50	12.7	4.5	28.3

LOCATION 49

WIND AZIMUTH	U _{MEAN} /U _{INF} (PERCENT)	U _{RMS} /U _{INF} (PERCENT)	U _{MEAN} +3*U _{RMS} /U _{INF} (PERCENT)
0.00	46.8	18.7	103.1
22.50	38.1	15.0	83.0
45.00	28.9	10.0	57.9
67.50	27.4	11.5	62.0
90.00	41.1	20.9	103.9
112.50	30.9	14.6	74.9
135.00	21.8	11.2	56.3
157.50	13.8	8.4	39.1
180.00	16.0	9.9	45.8
202.50	18.1	11.2	51.6
225.00	19.7	11.9	55.4
247.50	18.5	10.9	51.1
270.00	17.3	10.3	48.1
292.50	24.3	11.3	58.3
315.00	36.1	12.9	74.8
337.50	41.9	15.4	87.9

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
RAHARDJA CENTER, CONVENTION HOTEL COMPLEX

LOCATION 50

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	19.5	9.8	48.8
22.50	25.7	11.0	58.8
45.00	29.3	9.5	57.8
67.50	29.4	10.2	60.1
90.00	28.8	11.6	63.3
112.50	39.3	17.4	91.5
135.00	33.7	18.9	90.4
157.50	29.0	15.1	74.4
180.00	27.0	15.2	73.7
202.50	46.4	21.7	111.7
225.00	34.9	18.7	91.0
247.50	26.1	15.2	71.7
270.00	22.4	12.4	59.5
292.50	29.7	11.8	65.1
315.00	25.1	9.5	53.5
337.50	20.0	10.7	52.2

LOCATION 51

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	24.2	11.6	59.0
22.50	39.7	15.3	85.8
45.00	51.2	14.0	85.1
67.50	49.1	12.0	83.8
90.00	47.8	12.0	83.8
112.50	36.0	17.8	89.8
135.00	41.8	21.4	106.6
157.50	39.3	20.1	99.4
180.00	26.0	13.8	67.7
202.50	29.0	13.4	69.3
225.00	46.4	13.6	87.3
247.50	43.3	12.0	79.3
270.00	43.1	12.6	81.1
292.50	41.4	12.5	78.8
315.00	35.1	14.0	73.1
337.50	24.9	12.5	62.4

LOCATION 52

WIND AZIMUTH	UMEAN/UINF (PERCENT)	URMS/UINF (PERCENT)	UMEAN+3*URMS/UINF (PERCENT)
0.00	18.5	8.7	44.5
22.50	33.4	11.0	66.4
45.00	34.9	10.2	65.5
67.50	21.0	10.4	50.9
90.00	38.1	12.8	65.1
112.50	40.1	18.3	95.1
135.00	47.0	24.0	119.0
157.50	20.5	10.5	52.0
180.00	25.7	12.0	61.5
202.50	15.2	8.4	40.5
225.00	27.1	12.9	65.7
247.50	36.3	14.2	78.8
270.00	40.6	11.4	75.0
292.50	29.3	11.4	63.6
315.00	20.1	9.4	48.4
337.50	13.2	6.9	34.0

TABLE 2--PEDESTRIAN WIND VELOCITIES AND TURBULENCE INTENSITIES
 RAHARDJA CENTER, CONVENTION HOTEL COMPLEX

* * GREATEST VALUES * *

U _{MEAN} /U _{INF} (PERCENT)					U _{RMS} /U _{INF} (PERCENT)					U _{MEAN+3*RMS} /U _{INF} (PERCENT)				
LOC	AZ	MEAN	RMS	M+3RMS	LOC	AZ	MEAN	RMS	M+3RMS	LOC	AZ	MEAN	RMS	M+3RMS
31	0.0	82.8	10.9	115.6	43	67.5	44.2	25.5	120.6	41	67.5	71.3	23.4	141.3
45	315.0	82.3	13.6	123.0	39	135.0	54.0	24.8	128.4	43	45.0	72.1	22.3	139.1
45	337.5	82.3	16.4	131.6	52	135.0	47.0	24.0	119.0	41	45.0	74.5	21.1	137.9
31	22.5	80.7	12.0	116.5	41	67.5	71.3	23.4	141.3	45	0.0	70.0	20.9	132.7
31	180.0	80.6	13.4	120.8	43	45.0	72.1	22.3	139.1	45	337.5	82.3	16.4	131.6
31	337.5	78.3	10.9	110.9	41	337.5	41.7	22.3	108.6	39	135.0	54.0	24.8	128.4
31	157.5	76.0	13.0	115.0	43	337.5	44.5	22.0	110.6	26	225.0	69.5	18.9	126.3
41	45.0	74.5	21.1	137.9	43	0.0	40.3	21.9	105.9	26	202.5	64.0	20.5	125.3
46	22.5	72.3	16.6	122.1	50	202.5	46.4	21.7	111.7	45	202.5	59.3	21.5	123.8
43	45.0	72.1	22.3	139.1	45	292.5	59.3	21.5	123.8	45	315.0	82.3	13.6	123.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED

SINGAPORE AIRPORT

(1955-1964)

SEASON : ANNUAL NO OF OBS = 29121 HT OF MERS = 32. FT.

VELOCITY LEVELS IN MPH

DIRECTION	0- 6	7-16	19-31	32-	
N	5.20	2.70	0.00	0.00	5.90
NNE	6.00	2.40	0.00	0.00	8.40
NE	4.40	3.10	.10	0.00	7.60
ENE	1.90	.70	0.00	0.00	1.60
E	1.20	.30	0.00	0.00	1.50
ESE	1.20	.30	0.00	0.00	1.50
SE	3.10	.60	0.00	0.00	3.70
SSE	2.90	.60	0.00	0.00	3.50
S	4.90	1.90	0.00	0.00	6.80
SSW	1.90	.90	0.00	0.00	2.80
SW	1.80	.70	0.00	0.00	2.50
WSW	1.20	.40	0.00	0.00	1.70
W	2.00	.70	0.00	0.00	2.60
WNW	.90	.20	0.00	0.00	1.10
NW	1.50	.20	0.00	0.00	1.70
NNW	1.10	.20	0.00	0.00	1.30
CALM	45.60	0.00	0.00	0.00	45.60
TOT	85.70	14.00	.20	0.00	100.00

TABLE 4
SUMMARY OF WIND EFFECTS ON PEOPLE

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

Note: Table from Reference 4, p. 40.

TABLE 5

CALCULATION OF REFERENCE PRESSURES

Basic wind speed from table below:

Fastest 3-second gust at 57 m = 40 m/s

Mean hourly wind speed = $\frac{40}{1.60} = 25.0$ m/s at 57 m

Mean hourly gradient wind speed = $25.0 \left(\frac{300}{57}\right)^{.17} = 33.2$ m/s

Mean hourly wind at reference location =

U_{∞} = gradient wind = 33.2 m/s

Reference Pressure = $0.5\rho U_{\infty}^2 = (0.5)(1.226 \text{ kg/m}^3)(33.2 \text{ m/s})^2$

Use 675 N/m² = 675 N/m²

Based on meteorological data supplied to us,* the 100-year recurrence 3-second gust at 57 m above ground at 4 stations are given below using the assumption of a 0.16 power law profile. A Type I extreme value analysis was used.

<u>Location</u>	<u>Years Record</u>	<u>3-sec gust, 57 m elev. 100-yr, m/s</u>
Tengah Airfield	20	42
Fullerton Building	30	35
Paya Lebar Airport	26	35
Changi Airfield	8	42

Hourly mean data* were not consistent with peak gust data in comparison to strong-wind data from other sources (the gust factor appears to be larger than normally found). Thus the mean hourly data were not used.

Because of the differences between sites, and because the Fullerton Building data may be low due to its siting, we recommend a 40 m/s 3-sec gust at 57 m elevation for a 100-yr recurrence wind.

*Letter dated 12 January 1982 from Foong Sze Fook, Director Meteorological Services, Singapore

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK	POSITIVE PEAK
			PA	PA				PA	PA				PA	PA
1101	70	-2.12	-1431.5	582.8	1149	250	-1.77	-1193.0	702.9	1241	350	-1.32	-891.8	734.2
1102	70	-2.04	-1374.5	511.8	1150	250	-2.20	-1483.6	684.3	1242	0	-1.48	-996.6	770.0
1103	70	-1.46	-983.2	678.6	1151	90	-2.40	-1623.2	497.3	1243	0	-1.73	-1165.8	730.3
1104	280	-1.29	-869.4	509.5	1152	90	-1.95	-1318.9	493.9	1244	0	-2.36	-1595.0	863.8
1105	90	-1.35	-913.8	672.4	1153	90	-2.21	-1492.5	458.6	1245	190	-1.48	-997.3	834.2
1106	300	-1.53	-1033.5	695.1	1154	290	-1.71	-1153.7	366.4	1246	180	-1.51	-1021.7	751.4
1107	290	-2.12	-1429.3	685.2	1155	260	-2.09	-1410.3	458.4	1247	180	-1.53	-1034.2	751.6
1108	300	-2.34	-1582.0	891.7	1156	240	-3.44	-2321.3	426.7	1248	180	-1.60	-1081.1	719.4
1109	0	-2.50	-1689.7	686.9	1201	190	-1.71	-1154.5	603.3	1249	180	-1.34	-907.5	744.4
1110	80	-1.65	-1114.4	786.0	1202	350	-1.52	-1026.5	650.0	1250	340	-1.60	-1080.5	737.6
1111	290	-1.87	-1262.2	609.4	1203	340	-1.45	-977.6	546.6	1251	0	-1.76	-1186.5	742.0
1112	300	-1.86	-1254.9	838.6	1204	0	-1.65	-1116.4	536.2	1252	320	-1.32	-892.4	791.7
1113	300	-1.93	-1300.1	805.4	1205	350	-1.86	-1258.7	571.2	1253	330	-1.56	-1054.6	718.9
1114	10	-2.72	-1837.2	832.0	1206	350	-1.66	-1120.8	541.9	1254	330	-1.73	-1165.2	780.1
1115	350	-2.23	-1508.4	812.1	1207	350	-1.78	-1202.2	722.0	1255	350	-1.53	-1033.1	638.7
1116	20	-1.74	-1172.1	827.0	1208	10	-1.72	-1163.2	824.5	1256	180	-1.59	-1071.7	737.8
1117	290	-1.61	-1084.4	595.9	1209	0	-1.64	-1105.5	678.5	1257	180	-1.64	-1106.1	654.2
1118	300	-2.01	-1357.7	778.8	1210	190	-1.83	-1232.8	814.4	1258	180	-1.41	-954.4	697.5
1119	300	-1.63	-1099.2	871.8	1211	260	-1.82	-1230.5	785.7	1259	350	-1.55	-1048.9	792.1
1120	300	-1.73	-1167.7	795.9	1212	350	-1.52	-1022.2	825.8	1260	0	-1.53	-1030.7	703.6
1121	0	-2.06	-1389.1	698.4	1213	350	-1.54	-1037.7	783.8	1261	10	-1.66	-1118.4	715.3
1122	30	-1.63	-1102.2	767.1	1214	350	-2.28	-1541.3	826.6	1262	10	-2.07	-1397.3	693.1
1123	300	-1.94	-1307.9	675.1	1215	350	-2.03	-1370.1	789.3	1263	10	-2.23	-1503.1	780.1
1124	300	-2.58	-1740.8	778.8	1216	0	-1.99	-1344.4	787.3	1264	190	-2.25	-1516.7	717.8
1125	300	-1.52	-1026.0	860.2	1217	0	-3.23	-2180.5	816.4	1265	180	-2.01	-1356.3	553.9
1126	30	-2.00	-1355.4	764.8	1218	0	-2.98	-2012.0	870.7	1266	250	-1.71	-1152.4	680.7
1127	280	-2.39	-1613.3	734.3	1219	170	-1.65	-1116.5	780.7	1267	250	-1.01	-684.3	533.4
1128	80	-1.64	-1104.7	714.0	1220	180	-1.68	-1135.8	785.7	1268	340	-1.44	-970.6	676.3
1129	300	-1.98	-1333.9	760.5	1221	190	-1.45	-981.2	841.8	1269	350	-1.60	-1077.5	671.9
1130	300	-2.06	-1339.2	782.8	1222	260	-1.62	-1094.1	793.7	1270	10	-1.83	-1232.2	663.5
1131	300	-2.01	-1355.9	828.8	1223	350	-1.61	-1084.2	871.1	1271	0	-2.24	-1509.9	664.4
1132	20	-1.80	-1213.0	725.9	1224	0	-1.77	-1192.3	882.7	1272	10	-2.07	-1398.9	688.3
1133	280	-1.94	-1310.7	773.3	1225	0	-2.21	-1492.6	766.0	1273	240	-1.20	-807.6	352.6
1134	290	-1.87	-1262.2	708.8	1226	350	-2.26	-1524.7	824.5	1274	240	-2.00	-1349.6	356.0
1135	290	-1.86	-1262.2	644.0	1227	10	-1.98	-1334.0	923.4	1275	260	-1.11	-745.9	454.3
1136	0	-2.12	-1433.4	823.3	1228	350	-1.60	-1077.6	799.1	1276	260	-1.34	-902.3	744.6
1137	300	-1.48	-939.9	838.8	1229	180	-1.35	-914.2	758.9	1277	330	-1.71	-1152.5	741.6
1138	300	-1.82	-1233.0	654.6	1230	0	-1.25	-844.4	785.6	1278	340	-1.54	-1039.1	785.4
1139	240	-2.26	-1528.5	700.4	1231	350	-1.35	-911.3	785.9	1279	30	-1.59	-1073.0	752.0
1140	80	-1.81	-1222.2	658.8	1232	350	-1.63	-1100.8	800.3	1280	0	-2.15	-1451.9	657.2
1141	70	-1.92	-1229.9	637.7	1233	350	-1.61	-1088.2	827.0	1281	0	-1.99	-1342.2	729.3
1142	250	-2.23	-1507.1	854.4	1234	350	-1.80	-1217.2	836.5	1301	270	-3.29	-2290.7	625.5
1143	250	-1.69	-1141.1	739.9	1235	0	-1.65	-1114.8	900.4	1302	270	-2.19	-1480.3	654.8
1144	30	-1.76	-1187.2	649.1	1236	0	-1.60	-1081.8	857.5	1303	270	-1.45	-978.8	734.2
1145	240	-1.96	-1322.5	649.7	1237	350	-1.31	-887.0	744.8	1304	260	-1.82	-1231.9	647.6
1146	240	-1.87	-1264.2	576.9	1238	180	-1.49	-1006.1	736.7	1305	100	-1.89	-1275.6	625.5
1147	250	-2.01	-1355.8	485.2	1239	180	-1.33	-896.6	755.7	1306	280	-1.22	-821.0	593.4
1148	250	-2.65	-1786.8	723.4	1240	180	-1.33	-896.6	781.9	1307	100	-2.25	-1521.5	678.1

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK	POSITIVE PEAK	TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK	POSITIVE PEAK
			-----	-----				-----	-----				-----	-----
			PA	PA				PA	PA				PA	PA
13008	100	-3.13	-2111.3	645.9	13556	90	-3.18	-2145.8	380.8	14446	0	-2.33	-1571.2	445.0
13009	270	-1.79	-1200.9	779.3	13577	80	-1.54	-1038.0	329.5	14477	10	-2.80	-1892.6	534.8
13110	270	-2.12	-1428.1	765.8	13588	100	-1.73	-1164.7	389.3	14488	10	-1.78	-1199.2	710.4
13111	260	-2.25	-1522.4	742.3	1401	10	-2.81	-1896.3	690.0	14499	30	-1.65	-1113.2	690.0
13112	100	-2.09	-1410.8	785.8	14022	10	-2.96	-2000.3	786.6	14500	170	-1.24	-837.5	688.5
13133	100	-1.71	-1156.9	801.2	14033	10	-2.28	-1542.3	799.6	14511	170	-1.46	-988.4	688.4
13144	100	-1.71	-1157.9	772.9	14044	10	-1.84	-1241.9	644.1	14522	180	-1.64	-1105.1	688.4
13155	260	-2.39	-1614.2	786.1	14055	30	-1.87	-1263.8	637.9	14533	180	-1.74	-1171.5	717.7
13156	280	-2.43	-1639.2	811.7	14066	0	-1.78	-1203.3	538.2	14544	190	-1.41	-952.4	773.3
13177	100	-1.92	-1297.6	789.1	14077	100	-1.62	-1094.1	590.2	14555	10	-1.95	-1315.6	343.6
13188	110	-2.82	-1923.1	865.6	14088	30	-1.55	-1049.6	599.3	14566	10	-2.02	-1362.8	575.3
13199	100	-2.40	-1621.0	840.5	14099	170	-1.94	-1307.9	692.0	14577	20	-1.75	-1181.8	632.2
13220	110	-2.02	-1365.5	756.7	14110	10	-2.01	-1355.5	831.7	14588	30	-1.49	-1008.9	797.4
13221	260	-2.51	-1692.0	804.0	14111	30	-2.27	-1533.3	836.4	14599	30	-1.31	-881.5	622.4
13222	260	-2.24	-1509.3	794.2	14122	30	-1.64	-1105.5	821.6	14600	190	-1.47	-990.0	557.9
13223	280	-2.09	-1408.4	774.6	14133	30	-1.47	-990.0	872.7	14611	180	-1.71	-1157.2	557.9
13224	270	-1.96	-1321.4	774.7	14144	40	-1.53	-1035.1	820.5	14622	190	-1.66	-1120.0	636.6
13225	110	-2.06	-1388.8	848.6	14155	30	-1.65	-1115.0	814.7	14633	190	-1.66	-1123.2	636.6
13226	280	-1.14	-1446.6	742.2	14166	100	-1.29	-869.6	813.0	14644	20	-2.81	-1894.9	498.5
13227	270	-2.44	-1644.4	762.5	14177	180	-1.81	-1221.6	795.5	14655	20	-2.46	-1663.3	536.6
13228	260	-2.26	-1522.6	791.1	14188	180	-1.70	-1150.0	771.6	14666	20	-2.67	-1800.0	511.1
13229	100	-2.00	-1350.9	751.7	14199	350	-1.97	-1329.0	773.9	14677	30	-1.58	-1068.8	626.6
13330	310	-2.27	-1535.5	742.7	14200	350	-2.00	-1351.1	802.0	14688	30	-1.60	-1076.8	619.6
13331	100	-2.27	-1533.2	759.0	14211	300	-1.24	-821.1	837.6	14699	40	-1.59	-1073.9	516.6
13332	270	-2.32	-1699.9	800.2	14222	170	-1.38	-930.2	827.3	14700	150	-1.81	-1221.4	449.6
13333	100	-2.38	-1699.6	716.3	14233	280	-1.29	-838.6	869.0	14711	170	-2.24	-1550.8	555.5
13334	260	-2.30	-1550.0	743.9	14244	260	-1.18	-789.8	794.4	14722	160	-2.32	-1566.6	529.6
13335	300	-2.12	-1428.8	774.5	14255	170	-1.63	-1097.7	848.8	14733	40	-2.32	-1566.6	529.6
13336	270	-2.24	-1511.1	787.7	14266	190	-1.97	-1327.6	841.9	14744	100	-1.51	-1022.2	517.7
13337	110	-2.26	-1533.9	799.9	14277	180	-1.72	-1163.6	782.5	14755	30	-1.98	-1336.6	699.9
13338	110	-2.16	-1458.8	781.5	14288	0	-2.42	-1633.0	844.3	14766	30	-1.70	-1144.4	600.0
13339	330	-2.33	-1845.5	651.4	14299	0	-1.66	-1266.6	835.5	14777	30	-1.68	-1133.0	728.8
13440	260	-2.33	-1600.9	719.6	14300	10	-1.43	-942.2	813.8	14788	100	-1.19	-804.9	777.7
13441	260	-1.98	-1333.9	680.6	14311	20	-1.23	-832.2	815.3	14799	120	-1.11	-750.0	777.7
13442	270	-2.10	-1415.5	778.0	14322	170	-1.25	-841.6	747.0	14800	130	-1.72	-1160.7	534.4
13443	100	-2.04	-1374.7	715.4	14333	180	-1.38	-930.0	792.6	14811	120	-1.77	-1195.8	500.0
13444	110	-2.08	-1449.1	617.9	14344	180	-1.41	-952.4	833.3	15001	340	-1.17	-790.0	555.5
13445	260	-1.94	-1244.3	699.4	14355	180	-1.26	-847.7	776.0	15002	320	-1.40	-941.2	555.5
13446	260	-2.17	-1461.1	460.4	14366	190	-2.23	-1620.0	756.6	15003	110	-1.29	-812.3	555.5
13447	310	-2.01	-1355.7	365.8	14377	0	-2.41	-1627.0	733.9	15004	350	-1.83	-1233.8	722.2
13448	270	-2.65	-1111.1	392.2	14388	10	-2.33	-1571.1	580.0	15005	100	-1.98	-1339.9	710.0
13449	110	-1.96	-1322.8	471.9	14399	10	-1.43	-1000.8	734.2	15006	250	-1.81	-1221.4	588.8
13500	110	-2.38	-1600.3	493.6	14400	20	-1.12	-756.6	755.4	15007	250	-1.65	-1110.9	597.7
13501	330	-2.45	-1733.2	350.4	14411	180	-1.29	-871.1	743.2	15008	20	-1.98	-1339.9	547.7
13502	260	-1.78	-1200.1	338.0	14422	180	-1.32	-889.9	809.0	15009	40	-1.29	-868.8	498.8
13503	230	-1.66	-1120.0	231.3	14433	190	-1.41	-953.3	758.8	15110	60	-1.04	-699.9	500.0
13504	100	-1.93	-1300.0	245.0	14444	190	-1.47	-999.1	784.4	15111	50	-1.20	-860.0	500.0
13505	100	-2.00	-1355.1	395.5	14455	40	-1.36	-919.1	704.2	15112	40	-1.98	-1339.9	533.3

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
REFERENCE PRESSURE = 875 PA

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA
15113	300	-0.83	-358.5	347.4	1603	40	-1.54	-1040.5	514.1	1714	50	-1.15	-777.6	756.6
15114	0	-1.09	-734.1	167.1	1604	30	-1.02	-689.6	367.5	1715	50	-1.19	-797.6	794.5
15115	50	-0.88	-596.7	397.3	1605	90	-1.70	-1147.5	560.9	1716	80	-0.86	-579.3	386.4
15116	220	-1.09	-732.2	294.5	1606	80	-1.94	-1311.7	543.1	1717	20	-0.96	-365.3	649.6
15117	230	-0.80	-533.7	415.8	1607	260	-1.51	-1018.9	514.7	1718	350	-0.81	-452.6	548.0
15118	130	-0.90	-610.5	346.6	1608	10	-1.44	-971.9	545.7	1719	310	-0.85	-575.1	404.3
15119	130	-0.83	-563.7	480.8	1609	30	-1.82	-1223.5	555.2	1720	10	-1.07	-711.3	720.4
15200	340	-1.06	-718.8	605.6	1610	20	-1.72	-1161.0	640.0	1721	10	-1.09	-733.3	609.5
15201	340	-0.81	-593.6	222.1	1611	80	-0.94	-636.0	627.2	1722	260	-0.95	-397.9	613.0
15202	120	-0.87	-547.1	272.0	1612	80	-1.09	-737.8	655.7	1723	20	-0.91	-538.4	613.1
15203	260	-0.87	-547.1	272.0	1613	90	-1.72	-1164.3	599.7	1724	350	-0.99	-418.2	666.4
15204	290	-1.04	-693.9	350.3	1614	290	-0.89	-553.6	590.9	1725	350	-1.10	-520.6	743.2
15205	40	-1.30	-876.6	286.6	1615	140	-0.95	-540.6	642.2	1726	60	-0.78	-418.7	523.6
15206	30	-0.97	-596.6	657.3	1616	10	-2.04	-1378.0	671.2	1727	10	-1.06	-712.5	407.7
15207	260	-1.80	-1215.0	535.0	1617	240	-1.02	-495.4	691.8	1728	50	-1.00	-672.0	648.0
15208	120	-1.96	-1432.2	380.0	1618	250	-1.01	-527.2	682.7	1731	260	-0.93	-521.2	628.7
15209	110	-1.15	-732.2	335.0	1619	80	-0.96	-647.7	589.9	1732	290	-1.01	-277.6	684.7
15210	330	-1.05	-705.9	705.9	1620	80	-1.80	-1281.6	528.7	1733	290	-0.82	-324.9	555.6
15211	330	-1.21	-816.6	1621.8	1621	140	-0.93	-572.2	625.2	1734	70	-0.94	-331.4	632.0
15212	230	-0.72	-484.4	210.0	1622	130	-0.94	-572.2	634.4	1735	60	-0.85	-331.4	573.0
15213	40	-0.75	-503.3	461.9	1623	30	-1.14	-769.9	531.5	1736	40	-0.94	-433.8	635.0
15214	80	-0.92	-623.3	534.7	1624	30	-0.91	-617.5	409.7	1739	250	-0.63	-425.9	270.7
15215	80	-0.94	-623.3	212.7	1625	80	-0.85	-575.9	490.1	1740	50	-0.63	-426.2	315.8
15216	90	-1.13	-800.0	84.4	1626	90	-0.75	-507.1	439.0	1741	40	-0.62	-419.8	272.9
15217	80	-1.15	-777.3	104.4	1627	80	-1.12	-756.6	442.5	1742	140	-0.68	-458.4	164.8
15218	290	-0.77	-527.0	301.2	1628	70	-0.86	-581.1	378.5	1743	290	-0.82	-552.6	121.5
15219	140	-0.84	-487.6	568.3	1629	0	-0.79	-536.6	456.7	1744	40	-0.54	-363.1	349.4
15220	150	-0.66	-396.9	444.8	1630	10	-1.12	-754.4	452.8	1745	40	-0.46	-237.9	311.7
15221	270	-0.61	-410.7	291.7	1631	80	-0.65	-440.8	185.5	1746	260	-0.58	-368.3	389.5
15222	120	-0.63	-418.1	423.6	1632	40	-0.88	-591.2	457.0	1747	60	-0.90	-604.9	219.4
15223	80	-0.86	-588.3	528.4	1633	80	-0.73	-492.5	410.7	1748	220	-0.70	-470.4	144.1
15224	90	-1.21	-820.0	70.8	1634	90	-0.98	-661.7	425.5	1749	80	-0.54	-365.7	178.5
15225	120	-0.90	-530.0	609.3	1635	80	-1.01	-681.0	506.1	1750	270	-0.54	-362.3	93.9
15226	230	-0.77	-520.7	466.6	1636	10	-1.11	-749.9	463.6	1901	0	-1.81	-1219.5	543.2
15227	290	-0.91	-616.4	427.9	1637	50	-1.05	-705.7	446.1	1902	30	-1.90	-1285.3	405.4
15228	440	-1.09	-733.3	689.5	1701	50	-1.38	-928.8	654.8	1903	0	-1.37	-923.9	288.6
15229	330	-0.84	-534.4	569.9	1702	350	-0.77	-521.5	498.5	1904	270	-1.39	-939.4	518.1
15230	30	-0.84	-567.5	427.8	1703	310	-0.84	-564.4	562.1	1905	100	-1.70	-1146.1	298.9
15231	350	-0.74	-317.0	498.4	1704	0	-0.95	-633.9	640.4	1906	310	-1.51	-1017.6	196.8
15232	60	-0.62	-407.4	421.7	1705	340	-1.50	-1010.0	591.9	1907	350	-1.44	-974.2	401.8
15233	350	-0.72	-485.6	280.8	1706	270	-1.09	-738.8	634.7	1908	350	-1.38	-930.6	500.4
15234	0	-0.43	-290.8	264.9	1707	320	-1.26	-848.0	800.6	1909	350	-1.56	-1055.6	379.9
15235	0	-0.47	-319.9	219.1	1708	350	-1.11	-748.8	624.1	1910	350	-1.40	-944.6	385.1
15236	0	-0.53	-353.9	193.5	1709	270	-1.26	-852.8	290.3	1911	90	-1.25	-842.9	290.0
15237	40	-0.80	-425.9	539.1	1710	260	-1.25	-845.3	448.6	1912	350	-1.37	-922.8	517.6
15238	280	-0.55	-320.1	370.1	1711	90	-1.50	-1011.1	292.0	1913	70	-1.39	-937.0	471.2
16001	0	-1.27	-856.4	498.2	1712	60	-1.23	-832.6	225.0	1914	240	-1.43	-962.5	369.4
16002	80	-1.33	-896.2	405.4	1713	350	-1.12	-759.2	436.3	1915	300	-1.38	-934.8	488.4

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA
19116	280	-1.40	-945.3	306.8	1933	260	-1.27	-854.8	766.9	1952	330	-.89	-602.3	533.9
19117	280	-1.65	-1115.8	289.5	1934	300	-1.09	-722.8	733.2	1953	40	-1.04	-703.0	389.5
19118	280	-1.29	-873.6	435.2	1935	110	-1.42	-955.7	540.3	1954	10	-1.38	-939.9	513.1
19119	350	-.94	-631.6	280.2	1936	30	-1.25	-843.5	328.7	1955	10	-1.09	-733.5	628.8
19200	290	-.67	-450.8	195.9	1937	0	-1.59	-1074.8	510.6	1956	270	-1.35	-913.1	311.4
19221	290	-1.89	-597.8	561.5	1938	0	-2.14	-1443.6	747.8	1957	340	-.75	-505.0	395.5
19222	50	-1.01	-681.5	650.7	1939	350	-1.66	-1122.4	830.3	1958	40	-1.23	-829.0	209.3
19223	70	-.94	-637.1	172.8	1940	250	1.27	-847.1	855.2	1959	0	.87	-347.4	586.1
19224	40	-.90	-609.0	261.2	1941	30	-2.58	-1740.0	672.5	1960	320	.83	-353.2	562.0
19225	40	-1.19	-804.3	269.3	1942	20	-1.87	-1263.9	447.8	1961	280	-1.12	-753.3	94.6
19226	350	-1.40	-941.9	402.1	1943	350	-1.96	-1319.7	910.4	1962	350	.78	-375.5	529.7
19227	260	-1.79	-1208.7	665.4	1946	250	-1.73	-921.1	1169.2	1963	340	-1.30	-980.7	143.7
19228	150	-.89	-518.8	602.0	1947	40	-1.75	-1182.0	248.3	1964	20	-.75	-360.4	507.7
19229	80	-.99	-667.5	562.2	1948	50	-1.90	-1281.4	151.1	1965	90	-1.26	-853.3	201.6
19300	110	-1.62	-1096.5	495.0	1949	0	-1.36	-915.9	192.0	1966	40	-1.00	-678.1	191.0
19311	30	-1.43	-964.4	368.0	1950	320	-1.21	-814.9	440.6	1967	230	-.95	-641.9	196.1
19322	330	-1.74	-1177.7	535.8	1951	320	-.94	-632.7	533.2					

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

* * 15 GREATEST PRESSURE MAGNITUDES * *

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK -----
1156	240	-3.44	-2321.3	426.7
1301	270	-3.39	-2290.7	625.5
1217	0	-3.23	-2180.5	816.4
1356	90	-3.18	-2145.8	380.8
1308	100	-3.13	-2113.8	645.9
1218	0	-2.98	-2012.2	870.7
1402	10	-2.96	-2000.3	786.6
1401	10	-2.81	-1896.3	690.0
1464	20	-2.81	-1894.9	498.5
1447	10	-2.80	-1892.6	534.8
1339	330	-2.73	-1845.7	651.4
1114	10	-2.72	-1837.2	832.0
1466	20	-2.67	-1800.1	611.0
1148	250	-2.65	-1786.8	723.4
1124	300	-2.58	-1740.8	778.8

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK ----- PA	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK ----- PA	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK ----- PA
1114	28	-2.18	-1474.5	904.4	1301	274	-4.08	-2752.6	382.8	1401	4	-3.23	-2180.0	717.9
1156	240	-3.79	-2561.2	543.3	1308	102	-3.34	-2251.8	275.4	1402	10	-3.15	-2126.3	650.1
1217	2	-2.79	-1882.7	872.8	1339	264	-2.19	-1480.0	601.4	1447	12	-3.16	-2130.8	562.9
1218	354	-3.08	-2078.0	825.6	1356	106	-2.62	-1768.5	239.2	1484	26	-2.64	-1785.2	523.0

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

* * 12 GREATEST PRESSURE MAGNITUDES * *

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK -----
1301	274	-4.08	-2752.6	382.8
1156	240	-3.79	-2561.2	543.3
1308	102	-3.34	-2251.8	275.4
1401	4	-3.23	-2180.0	717.9
1447	12	-3.16	-2130.8	562.9
1402	10	-3.15	-2126.3	650.1
1218	354	-3.08	-2078.0	825.6
1217	2	-2.79	-1882.7	872.8
1464	26	-2.64	-1785.2	523.0
1356	106	-2.62	-1768.5	239.2
1339	264	-2.19	-1480.0	601.4
1114	28	-2.18	-1474.5	904.4

TABLE 6B. COMPARISON OF CONFIGURATIONS A AND B : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL COMPLEX
TAPS WHERE NEGATIVE PEAK LOAD FOR CONFIG. B EXCEEDED THAT FOR CONFIG. A BY 200 PA
REF. PRESSURE = 675 PA

TAP	AZIMUTH	A CONFIG. PA LOAD	AZIMUTH	B CONFIG. PA LOAD
1156	240	-2321.3	240	-2561.2
1301	270	-2290.7	274	-2752.6
1401	10	-1896.3	4	-2180.0
1447	10	-1892.6	12	-2130.8

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

RAHARDJA CENTER -- CONVENTION HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE		TAP	AZI- MUTH	PRESS COEFF	NEGATIVE		TAP	AZI- MUTH	PRESS COEFF	NEGATIVE		TAP	AZI- MUTH	PRESS COEFF	NEGATIVE	
			PEAK	PA				PEAK	PA				PEAK	PA				PEAK	PA
1	120	1	-	7118	2	120	-	-	722	3	120	-	-	190	1	-	-	7118	4
1	120	-	-	5339	2	120	-	-	1210	3	120	-	-	140	1	-	-	7118	5
1	120	1	-	499	2	120	-	-	1100	3	120	-	-	150	1	-	-	7118	6
1	120	-	-	498	2	120	-	-	1195	3	120	-	-	190	1	-	-	7118	7
1	120	1	-	421	2	120	-	-	1344	3	120	-	-	60	1	-	-	7118	8
1	120	-	-	441	2	120	-	-	1924	3	120	-	-	340	1	-	-	7118	9
1	120	1	-	459	2	120	-	-	1926	3	120	-	-	120	1	-	-	7118	10
1	120	-	-	459	2	120	-	-	1308	3	120	-	-	150	1	-	-	7118	11
1	120	1	-	621	2	120	-	-	1822	3	120	-	-	120	1	-	-	7118	12
1	120	-	-	771	2	120	-	-	1296	3	120	-	-	60	1	-	-	7118	13
1	120	1	-	771	2	120	-	-	1455	3	120	-	-	60	1	-	-	7118	14
1	120	-	-	744	2	120	-	-	1471	3	120	-	-	120	1	-	-	7118	15
1	120	1	-	744	2	120	-	-	1107	3	120	-	-	100	1	-	-	7118	16
1	120	-	-	691	2	120	-	-	1422	3	120	-	-	60	1	-	-	7118	17
1	120	1	-	704	2	120	-	-	1678	3	120	-	-	120	1	-	-	7118	18
1	120	-	-	704	2	120	-	-	1342	3	120	-	-	200	1	-	-	7118	19
1	120	1	-	777	2	120	-	-	1699	3	120	-	-	70	1	-	-	7118	20
1	120	-	-	777	2	120	-	-	1700	3	120	-	-	110	1	-	-	7118	21
1	120	1	-	786	2	120	-	-	1100	3	120	-	-	70	1	-	-	7118	22
1	120	-	-	742	2	120	-	-	922	3	120	-	-	120	1	-	-	7118	23
1	120	1	-	761	2	120	-	-	1241	3	120	-	-	60	1	-	-	7118	24
1	120	-	-	761	2	120	-	-	1098	3	120	-	-	120	1	-	-	7118	25
1	120	1	-	769	2	120	-	-	977	3	120	-	-	60	1	-	-	7118	26
1	120	-	-	726	2	120	-	-	977	3	120	-	-	120	1	-	-	7118	27
1	120	1	-	787	2	120	-	-	1578	3	120	-	-	120	1	-	-	7118	28
1	120	-	-	749	2	120	-	-	936	3	120	-	-	60	1	-	-	7118	29
1	120	1	-	763	2	120	-	-	1038	3	120	-	-	60	1	-	-	7118	30
1	120	-	-	771	2	120	-	-	793	3	120	-	-	120	1	-	-	7118	31
1	120	1	-	825	2	120	-	-	849	3	120	-	-	150	1	-	-	7118	32
1	120	-	-	773	2	120	-	-	844	3	120	-	-	210	1	-	-	7118	33
1	120	1	-	768	2	120	-	-	933	3	120	-	-	210	1	-	-	7118	34
1	120	-	-	742	2	120	-	-	842	3	120	-	-	60	1	-	-	7118	35
1	120	1	-	764	2	120	-	-	1055	3	120	-	-	190	1	-	-	7118	36
1	120	-	-	764	2	120	-	-	844	3	120	-	-	340	1	-	-	7118	37
1	120	1	-	809	2	120	-	-	1245	3	120	-	-	200	1	-	-	7118	38
1	120	-	-	744	2	120	-	-	1077	3	120	-	-	190	1	-	-	7118	39
1	120	1	-	809	2	120	-	-	778	3	120	-	-	1190	1	-	-	7118	40
1	120	-	-	746	2	120	-	-	547	3	120	-	-	60	1	-	-	7118	41
1	120	1	-	768	2	120	-	-	557	3	120	-	-	950	1	-	-	7118	42
1	120	-	-	775	2	120	-	-	578	3	120	-	-	950	1	-	-	7118	43
1	120	1	-	802	2	120	-	-	440	3	120	-	-	10	1	-	-	7118	44
1	120	-	-	769	2	120	-	-	766	3	120	-	-	190	1	-	-	7118	45
1	120	1	-	769	2	120	-	-	734	3	120	-	-	200	1	-	-	7118	46
1	120	-	-	769	2	120	-	-	444	3	120	-	-	160	1	-	-	7118	47

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

RAHARDJA CENTER -- CONVENTION HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA	TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA	TAP	AZI-MUTH	PRESS COEFF	NEGATIVE PEAK PA	POSITIVE PEAK PA
235007	310	-2.07	-14000	68992	25023	0	-1.10	-74437	34454	22908	150	-1.34	-901	8530
235008	40	-1.90	-12800	65551	25024	340	-1.89	-60144	52338	22909	130	-1.51	-1019	8283
235009	240	-1.75	-11800	66994	25025	340	-1.95	-63396	43566	22910	310	-1.47	-999	9044
235010	130	-1.11	-10740	60777	25026	10	-1.60	-22933	40044	22911	150	-1.34	-900	9077
235011	160	-1.99	-13445	70270	25027	10	-1.45	-22822	30030	22912	150	-1.60	-1000	7977
235012	150	-1.11	-11771	62244	25028	160	-1.41	-27288	26444	22913	130	-1.72	-1155	7777
235013	40	-1.11	-10740	62244	25029	50	-1.01	-88333	40700	22914	130	-1.66	-1111	9999
235014	40	-1.11	-10740	62244	25030	10	-1.07	-88333	40700	22915	130	-1.66	-1111	9999
235015	40	-1.11	-10740	62244	25031	30	-1.81	-12119	55055	22916	200	-1.61	-1000	4330
235016	160	-2.05	-13860	64995	25032	30	-1.81	-12119	55055	22917	200	-1.61	-1000	4330
235017	150	-2.23	-15000	67333	25033	140	-1.49	-10008	33074	22918	120	-2.04	-1330	3555
235018	44	-1.82	-13300	49992	25034	140	-1.39	-8009	33074	22919	120	-1.84	-1330	3555
235019	44	-1.15	-10200	44444	25035	140	-1.76	-15009	33074	22920	350	-1.81	-1300	3555
235020	20	-2.80	-15000	57333	25036	140	-1.01	-8009	33074	22921	240	-1.93	-1300	3555
235021	30	-2.22	-13000	44444	25037	160	-1.11	-12550	12000	22922	350	-1.58	-1000	1811
235022	30	-2.22	-13000	44444	25038	160	-1.11	-12550	12000	22923	10	-1.78	-1000	1811
235023	1	-1.38	-10800	43000	25039	140	-1.58	-13449	13000	22924	30	-1.11	-1000	2272
235024	150	-1.61	-10800	43000	25040	140	-1.58	-13449	13000	22925	30	-1.11	-1000	2272
235025	140	-2.49	-16800	63322	25041	140	-1.79	-14611	53551	22926	10	-1.31	-1000	3300
235026	160	-2.43	-16800	64888	25042	140	-1.92	-16118	41699	22927	20	-1.54	-1000	3300
235027	150	-2.92	-19900	61000	25043	120	-1.03	-69888	64477	22928	160	-1.18	-1000	4411
235028	44	-1.11	-10800	66666	25044	180	-1.94	-16331	62222	22929	200	-1.02	-1000	6377
235029	230	-1.56	-10200	69333	25045	350	-1.54	-13666	22111	22930	50	-1.40	-1000	6377
235030	40	-1.11	-10800	69333	25046	40	-1.48	-13666	22111	22931	10	-1.40	-1000	6377
235031	240	-1.16	-7800	45888	25047	50	-1.42	-13666	22111	22932	140	-1.47	-1000	4811
235032	50	-1.17	-7800	45888	25048	50	-1.42	-13666	22111	22933	150	-1.29	-1000	4455
235033	11	-1.76	-4400	51111	25049	0	-1.32	-22111	17009	22934	40	-1.33	-1000	4455
235034	340	-1.11	-10800	33778	25050	0	-1.12	-75999	48224	22935	150	-1.32	-1000	1122
235035	440	-1.39	-13300	33600	25051	170	-1.74	-17000	47664	22936	140	-1.37	-1000	4611
235036	220	-1.92	-16600	51177	25052	150	-1.26	-85522	13377	22937	140	-1.19	-1000	4933
235037	10	-1.41	-10800	47666	25053	190	-1.21	-85522	13377	22938	140	-1.19	-1000	4933
235038	40	-1.71	-14000	41222	25054	160	-1.21	-85522	13377	22939	150	-1.07	-1000	1122
235039	100	-1.67	-14000	41222	25055	30	-1.29	-15447	44441	22940	150	-1.33	-1000	2555
235040	160	-1.92	-16600	52288	25056	0	-1.38	-19332	44473	22941	150	-1.57	-1000	6666
235041	150	-2.28	-16600	44333	25057	170	-1.53	-19332	24441	22942	140	-1.98	-1000	6666
235042	120	-1.92	-16600	44333	25058	140	-1.49	-19332	20144	22943	200	-1.05	-1000	4455
235043	140	-1.06	-13000	40077	25059	140	-1.49	-19332	19666	22944	44	-1.39	-1000	4455
235044	330	-1.58	-13000	40077	25060	150	-1.39	-22633	21122	22945	60	-1.20	-1000	5555
235045	30	-1.74	-13000	49888	25061	240	-1.44	-22633	25922	22946	50	-1.16	-1000	1500
235046	180	-1.11	-10800	47444	25062	20	-1.09	-14111	21399	22947	140	-1.61	-1000	1500
235047	180	-1.11	-10800	47444	25063	160	-1.25	-15200	69885	22948	160	-1.06	-1000	3666
235048	200	-1.68	-13300	45999	25064	310	-1.63	-11011	40884	22949	120	-1.06	-1000	5666
235049	200	-1.49	-13300	45999	25065	310	-1.63	-11011	40884	22950	140	-1.11	-1000	4333
235050	200	-1.71	-14700	40000	25066	310	-1.60	-11081	18334	22951	170	-1.39	-1000	1500
235051	210	-1.79	-14700	40000	25067	310	-1.75	-11881	16664	22952	170	-1.39	-1000	1500
235052	20	-1.01	-10800	43333	25068	310	-1.68	-11334	77766	22953	170	-1.38	-1000	1500

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

RAHARDJA CENTER -- CONVENTION HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

* * 15 GREATEST PRESSURE MAGNITUDES * *

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK -----
2146	100	-3.26	-2201.9	762.5
2143	260	-3.18	-2146.1	768.5
2435	20	-3.15	-2125.4	499.5
2236	190	-3.12	-2107.2	542.8
2124	100	-3.00	-2028.3	761.4
2144	250	-2.93	-1979.8	753.8
2442	150	-2.92	-1972.9	610.6
2346	290	-2.86	-1927.1	771.7
2145	120	-2.85	-1926.8	802.7
2155	250	-2.85	-1926.3	789.9
2154	250	-2.85	-1924.8	739.9
2357	300	-2.85	-1921.9	733.6
2356	300	-2.82	-1900.8	797.1
2132	250	-2.80	-1891.8	771.1
2436	30	-2.80	-1888.2	532.4

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

RAHARDJA CENTER -- CONVENTION HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK -----	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK -----	TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK -----
2124	108	-2.96	-1997.4	589.2	2146	98	-3.08	-2078.2	526.9	2346	288	-3.15	-2124.1	748.4
2143	260	-2.98	-2012.3	778.8	2236	188	-3.40	-2296.5	539.0	2357	282	-2.65	-1790.2	712.0
2144	250	-2.63	-1786.6	793.8	2324	282	-2.59	-1749.8	745.5	2435	26	-3.20	-2158.0	439.0
2145	122	-2.85	-1926.6	600.5	2335	290	-2.58	-1740.4	712.8	2442	156	-2.97	-2003.1	460.6

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

RAHARDJA CENTER -- CONVENTION HOTEL COMPLEX
REFERENCE PRESSURE = 675 PA

* * 12 GREATEST PRESSURE MAGNITUDES * *

TAP	AZI- MUTH	PRESS COEFF	NEGATIVE PEAK ----- PA	POSITIVE PEAK -----
2236	188	-3.40	-2296.5	539.0
2435	26	-3.20	-2158.0	439.0
2346	288	-3.15	-2124.1	748.4
2146	98	-3.08	-2078.2	526.9
2143	260	-2.98	-2012.3	778.8
2442	156	-2.97	-2003.1	460.6
2124	108	-2.96	-1997.4	589.2
2145	122	-2.85	-1926.6	600.5
2357	282	-2.65	-1790.2	712.0
2144	250	-2.65	-1786.6	793.8
2324	282	-2.59	-1749.8	745.5
2335	290	-2.58	-1740.4	712.8

TABLE 6B. COMPARISON OF CONFIGURATIONS A AND B : RAHARDJA CENTER -- CONVENTION HOTEL COMPLEX
 TAPS WHERE NEGATIVE PEAK LOAD FOR CONFIG. B EXCEEDED THAT FOR CONFIG. A BY 150 PA
 REF. PRESSURE = 675 PA

TAP	AZIMUTH	A CONFIG. PA LOAD	AZIMUTH	B CONFIG. PA LOAD
2236	190	-2107.2	188	-2296.5
2346	290	-1927.1	288	-2124.1

TABLE 7. RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
 PROJECT 5250 CONFIGURATION A
 SCALE = 400 REF. PRESSURE = 675
 GUST FACTOR = 1.00 STANDARD FLOOR HEIGHT = 3.00
 NUMBER OF SIDES = 4 NO. OF FLOORS = 48

SIDE	ANGLE	Z-AXIS
1	0.0	4.750
2	90.0	12.560
3	180.0	4.750
4	270.0	2.296

FLOOR #	LABEL	HEIGHT-M
1	4TH	8.00
2	5TH	3.00
3	6TH	3.00
4	7TH	3.00
5	8TH	3.00
6	9TH	3.00
7	10TH	3.00
8	11TH	3.00
9	12TH	3.00
10	13TH	3.00
11	14TH	3.00
12	15TH	3.00
13	16TH	3.00
14	17TH	3.00
15	18TH	3.00
16	19TH	3.00
17	20TH	3.00
18	21ST	3.00
19	22ND	3.00
20	23RD	3.00
21	24TH	3.00
22	25TH	3.00
23	26TH	3.00
24	27TH	3.00
25	28TH	3.00
26	29TH	3.00
27	30TH	3.00
28	31ST	3.00
29	32ND	3.00
30	33RD	3.00
31	34TH	3.00
32	35TH	3.00
33	36TH	3.00
34	37TH	3.00
35	38TH	3.00
36	39TH	3.00
37	40TH	3.00
38	41ST	3.00
39	42ND	3.00
40	43RD	3.00
41	44TH	3.00
42	45TH	3.00
43	46TH	3.00
44	47TH	3.00
45	48TH	3.00
46	49TH	3.00
47	50TH	6.00
48	51ST	22.75

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	-5.9	-39.0	152	475	-39.0	-82.0	33	-5	-813.8	-562.2	30.5	-76.4	-12.8
5TH	8.00	-3.9	-15.7	57	178	-69.1	-88.1	31	-8	-807.9	-523.2	26.1	-69.9	-11.5
6TH	11.00	-4.9	-16.3	57	178	-85.6	-91.4	29	-9	-804.0	-507.5	24.6	-67.5	-11.0
7TH	14.00	-5.8	-16.9	57	178	-102.0	-94.7	28	-10	-799.1	-491.2	23.1	-65.1	-10.4
8TH	17.00	-6.8	-17.5	57	178	-118.5	-98.1	27	-10	-793.3	-474.3	21.6	-62.7	-9.9
9TH	20.00	-7.7	-18.1	57	178	-134.9	-101.4	26	-11	-786.5	-456.8	20.2	-60.4	-9.4
10TH	23.00	-8.6	-18.7	57	178	-151.4	-104.7	25	-11	-778.8	-438.8	18.9	-58.0	-8.8
11TH	26.00	-9.6	-19.3	57	178	-167.8	-108.1	24	-12	-770.2	-420.1	17.6	-55.7	-8.2
12TH	29.00	-10.6	-19.5	57	178	-185.7	-109.3	22	-12	-760.6	-400.8	16.4	-53.4	-7.7
13TH	32.00	-11.6	-19.3	57	178	-203.9	-108.5	20	-12	-750.0	-381.3	15.2	-51.1	-7.1
14TH	35.00	-12.7	-19.2	57	178	-222.1	-107.7	19	-12	-738.4	-362.0	14.1	-48.9	-6.6
15TH	38.00	-13.7	-19.1	57	178	-240.2	-107.0	17	-12	-725.8	-342.8	13.0	-46.7	-6.0
16TH	41.00	-14.7	-18.9	57	178	-258.4	-106.2	15	-12	-712.1	-323.7	12.0	-44.5	-5.6
17TH	44.00	-15.8	-18.8	57	178	-276.5	-105.4	14	-11	-697.3	-304.8	11.1	-42.4	-5.1
18TH	47.00	-16.8	-18.7	57	178	-294.7	-104.6	12	-11	-681.6	-286.0	10.2	-40.3	-4.7
19TH	50.00	-17.8	-18.5	57	178	-312.9	-103.9	11	-10	-664.8	-267.3	9.4	-38.3	-4.3
20TH	53.00	-18.5	-18.3	57	178	-324.9	-102.9	10	-10	-647.0	-248.8	8.6	-36.4	-3.9
21ST	56.00	-18.7	-17.3	57	178	-327.3	-97.1	8	-9	-628.4	-230.5	7.9	-34.4	-3.5
22ND	59.00	-18.8	-16.3	57	178	-329.7	-91.3	7	-8	-609.8	-213.2	7.2	-32.6	-3.2
23RD	62.00	-18.9	-15.2	57	178	-332.1	-85.5	6	-7	-591.0	-196.9	6.6	-30.8	-2.9
24TH	65.00	-19.1	-14.2	57	178	-334.4	-79.8	5	-6	-572.1	-181.7	6.0	-29.0	-2.7
25TH	68.00	-19.2	-13.2	57	178	-336.8	-74.0	4	-5	-553.0	-167.4	5.5	-27.4	-2.5
26TH	71.00	-19.3	-12.2	57	178	-339.2	-68.2	2	-4	-533.8	-154.2	5.0	-25.7	-2.4
27TH	74.00	-19.5	-11.1	57	178	-341.6	-62.4	1	-2	-514.5	-142.1	4.6	-24.2	-2.3
28TH	77.00	-19.6	-10.1	57	178	-344.0	-56.7	0	-1	-495.0	-131.0	4.2	-22.6	-2.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
WIND DIRECTION 0 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		GUST FACTOR 1.00 MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	Z		
29TH	80.00									-475.4	-120.9	3.8	-21.2	-2.2
30TH	83.00	-19.1	-9.4	57	178	-335.7	-52.6	-0	0	-456.3	-111.5	3.4	-19.8	-2.2
31ST	86.00	-18.6	-8.9	57	178	-326.4	-49.8	-0	0	-437.7	-102.6	3.1	-18.4	-2.2
32ND	89.00	-18.1	-8.4	57	178	-317.2	-47.0	-0	1	-419.6	-94.2	2.8	-17.2	-2.2
33RD	92.00	-17.6	-7.9	57	178	-308.0	-44.3	-0	1	-402.0	-86.3	2.6	-15.9	-2.2
34TH	95.00	-17.0	-7.4	57	178	-298.8	-41.5	-1	1	-385.0	-78.9	2.3	-14.7	-2.3
35TH	98.00	-16.6	-6.9	58	178	-284.8	-38.7	-1	2	-368.4	-72.0	2.1	-13.6	-2.3
36TH	101.00	-16.3	-6.4	61	178	-268.6	-35.9	-1	2	-352.1	-65.6	1.9	-12.5	-2.3
37TH	104.00	-16.0	-5.9	63	178	-255.3	-33.4	-1	2	-336.1	-59.7	1.7	-11.5	-2.4
38TH	107.00	-15.8	-5.5	65	178	-242.8	-30.9	-1	2	-320.3	-54.2	1.5	-10.5	-2.4
39TH	110.01	-15.5	-5.1	67	178	-230.9	-28.4	-1	2	-304.8	-49.1	1.4	-9.6	-2.4
40TH	113.01	-15.2	-4.6	69	178	-219.7	-26.0	-0	1	-289.6	-44.5	1.2	-8.7	-2.5
41ST	116.01	-15.0	-4.2	72	178	-209.0	-23.5	-0	1	-274.6	-40.3	1.1	-7.8	-2.5
42ND	119.01	-14.7	-3.8	74	178	-198.8	-21.0	-0	1	-259.9	-36.5	1.0	-7.0	-2.5
43RD	122.01	-14.5	-3.3	76	178	-190.2	-18.6	-0	0	-245.5	-33.2	.9	-6.3	-2.5
44TH	125.01	-14.4	-2.9	78	178	-183.7	-16.3	0	-1	-231.1	-30.3	.8	-5.6	-2.5
45TH	128.01	-14.3	-2.5	81	178	-177.2	-14.0	0	-2	-216.8	-27.8	.7	-4.9	-2.5
46TH	131.01	-14.1	-2.1	83	178	-170.7	-11.7	1	-4	-202.7	-25.7	.6	-4.3	-2.4
47TH	134.01	-13.9	-1.7	85	178	-164.2	-9.4	1	-5	-188.7	-24.1	.5	-3.7	-2.3
48TH	137.01	-13.7	-1.3	87	178	-157.7	-7.1	1	-7	-175.0	-22.8	.5	-3.1	-2.2
49TH	140.01	-13.5	-.9	89	178	-151.3	-4.8	1	-9	-161.5	-22.0	.4	-2.6	-2.1
50TH	143.01	-13.6	-.6	92	178	-148.4	-3.5	0	-10	-147.9	-21.3	.3	-2.2	-2.0
51ST	149.01	-28.1	-2.2	190	357	-148.1	-6.1	1	-11	-119.8	-19.2	.2	-1.4	-1.7
TOP	171.76	-119.8	-19.2	800	1351	-149.7	-14.2	2	-14	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 10

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	7.2	11.1	152	475	47.5	23.4	22	-14	-158.8	231.1	-23.6	-13.4	6.6
5TH	8.00	1.6	4.2	57	178	27.7	23.6	26	-10	-166.0	220.0	-21.8	-12.1	6.2
6TH	11.00	1.0	4.2	57	178	16.9	23.6	27	-6	-167.6	215.8	-21.1	-11.6	6.1
7TH	14.00	.3	4.2	57	178	6.1	23.7	27	-2	-168.6	211.6	-20.5	-11.1	6.0
8TH	17.00	-.3	4.3	57	178	-4.7	23.8	26	2	-168.9	207.3	-19.9	-10.6	5.9
9TH	20.00	-.9	4.3	57	178	-15.5	23.9	24	5	-168.6	203.1	-19.2	-10.1	5.7
10TH	23.00	-1.5	4.3	57	178	-26.3	24.0	21	7	-167.8	198.8	-18.6	-9.6	5.6
11TH	26.00	-2.1	4.3	57	178	-37.1	24.1	18	9	-166.3	194.5	-18.1	-9.1	5.5
12TH	29.00	-2.5	4.1	57	178	-43.7	22.8	16	10	-164.1	190.2	-17.5	-8.6	5.4
13TH	32.00	-2.8	3.6	57	178	-49.5	20.1	14	11	-161.6	186.2	-16.9	-8.1	5.3
14TH	35.00	-3.2	3.1	57	178	-55.3	17.4	11	11	-158.8	182.6	-16.4	-7.6	5.3
15TH	38.00	-3.5	2.6	57	178	-61.1	14.8	8	11	-155.7	179.5	-15.8	-7.1	5.2
16TH	41.00	-3.8	2.2	57	178	-67.0	12.1	5	9	-152.2	176.8	-15.3	-6.7	5.1
17TH	44.00	-4.1	1.7	57	178	-72.8	9.4	3	8	-148.4	174.7	-14.8	-6.2	5.1
18TH	47.00	-4.5	1.2	57	178	-78.6	6.7	1	5	-144.2	173.0	-14.2	-5.8	5.1
19TH	50.00	-4.8	.7	57	178	-84.4	4.0	0	3	-139.7	171.8	-13.7	-5.4	5.0
20TH	53.00	-5.2	.3	57	178	-90.6	1.5	0	1	-134.9	171.1	-13.2	-5.0	5.0
21ST	56.00	-5.5	.5	57	178	-97.2	2.7	0	4	-129.8	170.8	-12.7	-4.6	5.0
22ND	59.00	-5.9	.7	57	178	-103.8	3.8	1	6	-124.2	170.3	-12.2	-4.2	5.0
23RD	62.00	-6.3	.9	57	178	-110.4	5.0	1	8	-118.3	169.6	-11.7	-3.8	5.0
24TH	65.00	-6.7	1.1	57	178	-117.1	6.1	1	9	-112.0	168.8	-11.2	-3.5	4.9
25TH	68.00	-7.0	1.3	57	178	-123.7	7.2	2	11	-105.3	167.7	-10.7	-3.1	4.8
26TH	71.00	-7.4	1.5	57	178	-130.3	8.4	2	12	-98.3	166.4	-10.2	-2.8	4.8
27TH	74.00	-7.8	1.7	57	178	-136.9	9.5	3	13	-90.9	164.9	-9.7	-2.6	4.7
28TH	77.00	-8.2	1.9	57	178	-143.5	10.7	3	14	-83.1	163.2	-9.2	-2.3	4.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
 WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-7.7	2.1	57	178	-135.8	11.8	4	15	-74.9	161.3	-8.7	-2.1	4.5
30TH	83.00	-7.2	2.3	57	178	-126.9	13.0	5	16	-67.1	159.2	-8.2	-1.8	4.3
31ST	86.00	-6.7	2.5	57	178	-117.9	14.2	6	17	-59.9	156.9	-7.7	-1.6	4.2
32ND	89.00	-6.2	2.7	57	178	-109.0	15.4	8	17	-53.2	154.3	-7.3	-1.5	4.1
33RD	92.00	-5.7	3.0	57	178	-100.0	16.6	9	18	-47.0	151.6	-6.8	-1.3	4.0
34TH	95.00	-5.2	3.2	58	178	-89.2	17.8	11	18	-41.3	148.6	-6.3	-1.2	3.8
35TH	98.00	-4.7	3.4	61	178	-77.3	19.0	13	19	-36.1	145.4	-5.9	-1.1	3.7
36TH	101.00	-4.1	3.7	63	178	-66.0	20.5	16	18	-31.4	142.1	-5.5	-1.0	3.6
37TH	104.00	-3.6	4.0	65	178	-55.1	22.2	19	17	-27.2	138.4	-5.1	-.9	3.4
38TH	107.00	-3.0	4.2	67	178	-44.6	23.8	21	15	-23.7	134.4	-4.6	-.8	3.3
39TH	110.01	-2.4	4.5	69	178	-34.4	25.5	23	12	-20.7	130.2	-4.2	-.7	3.2
40TH	113.01	-1.8	4.8	72	178	-24.6	27.1	25	9	-18.3	125.7	-3.9	-.7	3.0
41ST	116.01	-1.1	5.1	74	178	-14.9	28.7	25	5	-16.5	120.8	-3.5	-.6	2.9
42ND	119.01	-.6	5.4	76	178	-8.0	30.4	25	3	-15.4	115.7	-3.1	-.6	2.7
43RD	122.01	-.4	5.7	78	178	-5.4	31.8	24	2	-14.8	110.3	-2.8	-.5	2.6
44TH	125.01	-.3	5.9	81	178	-3.2	33.2	24	1	-14.4	104.6	-2.5	-.5	2.5
45TH	128.01	-.1	6.2	83	178	-1.3	34.6	23	0	-14.1	98.7	-2.2	-.5	2.3
46TH	131.01	.0	6.4	85	178	.2	36.0	23	-0	-14.0	92.5	-1.9	-.4	2.2
47TH	134.01	.1	6.7	87	178	1.5	37.5	22	-0	-14.0	86.1	-1.6	-.4	2.0
48TH	137.01	.2	6.9	89	178	2.4	38.9	21	-1	-14.2	79.4	-1.4	-.3	1.9
49TH	140.01	.1	7.1	92	178	1.4	39.8	21	-0	-14.4	72.5	-1.1	-.3	1.7
50TH	143.01	-.4	14.0	190	357	-2.3	39.4	22	1	-14.5	65.4	-.9	-.2	1.6
51ST	149.01	-14.1	51.4	800	1351	-17.6	38.0	23	6	-14.1	51.4	-.6	-.2	1.3
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 20

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	-7.6	89.9	152	475	-50.2	189.2	31	3	-75.6	2135.5	-169.0	-4.4	59.9
5TH	8.00	-3.1	36.4	57	178	-53.8	204.3	30	3	-68.0	2045.6	-152.3	-3.8	57.2
6TH	11.00	-3.2	37.9	57	178	-55.7	212.6	30	3	-64.9	2009.2	-146.2	-3.6	56.1
7TH	14.00	-3.3	39.4	57	178	-57.7	220.8	30	2	-61.8	1971.3	-140.2	-3.4	54.9
8TH	17.00	-3.4	40.8	57	178	-59.6	229.1	30	2	-58.5	1931.9	-134.4	-3.2	53.7
9TH	20.00	-3.5	42.3	57	178	-61.6	237.3	29	2	-55.1	1891.1	-128.6	-3.1	52.5
10TH	23.00	-3.6	43.8	57	178	-63.5	245.6	29	2	-51.6	1848.8	-123.0	-2.9	51.3
11TH	26.00	-3.7	45.3	57	178	-65.4	253.8	29	2	-47.9	1805.0	-117.5	-2.8	50.0
12TH	29.00	-3.5	45.9	57	178	-62.0	257.5	29	2	-44.2	1759.7	-112.2	-2.6	48.7
13TH	32.00	-3.3	45.8	57	178	-57.6	256.9	29	2	-40.7	1713.8	-107.0	-2.5	47.3
14TH	35.00	-3.0	45.7	57	178	-53.2	256.2	29	2	-37.4	1668.0	-101.9	-2.4	46.0
15TH	38.00	-2.8	45.6	57	178	-48.8	255.6	28	2	-34.4	1622.4	-97.0	-2.3	44.7
16TH	41.00	-2.5	45.4	57	178	-44.5	254.9	28	2	-31.6	1576.8	-92.2	-2.2	43.4
17TH	44.00	-2.3	45.3	57	178	-40.1	254.3	28	1	-29.0	1531.4	-87.5	-2.1	42.1
18TH	47.00	-2.0	45.2	57	178	-35.7	253.6	28	1	-26.8	1486.0	-83.0	-2.0	40.8
19TH	50.00	-1.8	45.1	57	178	-31.3	253.0	28	1	-24.7	1440.8	-78.6	-1.9	39.5
20TH	53.00	-1.6	45.0	57	178	-28.0	252.2	28	1	-22.9	1395.7	-74.3	-1.9	38.3
21ST	56.00	-1.5	44.6	57	178	-26.3	250.0	28	1	-21.3	1350.7	-70.2	-1.8	37.0
22ND	59.00	-1.4	44.2	57	178	-24.7	247.7	28	1	-19.8	1306.2	-66.2	-1.7	35.8
23RD	62.00	-1.3	43.8	57	178	-23.0	245.4	27	1	-18.4	1262.0	-62.4	-1.7	34.6
24TH	65.00	-1.2	43.4	57	178	-21.4	243.2	27	1	-17.1	1218.3	-58.7	-1.6	33.4
25TH	68.00	-1.1	43.0	57	178	-19.7	240.9	27	1	-15.9	1174.9	-55.1	-1.6	32.2
26TH	71.00	-1.0	42.5	57	178	-18.1	238.6	27	1	-14.8	1131.9	-51.6	-1.5	31.0
27TH	74.00	-0.9	42.1	57	178	-16.4	236.4	27	1	-13.8	1089.4	-48.3	-1.5	29.9
28TH	77.00	-0.8	41.7	57	178	-14.7	234.1	27	1	-12.8	1047.3	-45.1	-1.4	28.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 20

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-7	41.3	57	178	-13.1	231.5	27	0	-12.0	1005.5	-42.0	-1.4	27.6
30TH	83.00	-6	40.8	57	178	-11.4	228.7	27	0	-11.2	964.2	-39.0	-1.4	26.5
31ST	86.00	-6	40.3	57	178	-9.7	225.9	27	0	-10.6	923.5	-36.2	-1.3	25.4
32ND	89.00	-5	39.8	57	178	-8.1	223.1	27	0	-10.0	883.2	-33.5	-1.3	24.3
33RD	92.00	-4	39.3	57	178	-6.4	220.3	27	0	-9.6	843.4	-30.9	-1.3	23.2
34TH	95.00	-2	38.8	58	178	-3.5	217.5	27	0	-9.2	804.1	-28.4	-1.2	22.2
35TH	98.00	0	38.3	61	178	1	214.7	27	-0	-9.0	765.4	-26.1	-1.2	21.1
36TH	101.00	3	37.7	63	178	4.0	211.2	27	-0	-9.0	727.1	-23.8	-1.2	20.1
37TH	104.00	5	37.0	65	178	7.8	207.5	27	-0	-9.3	689.4	-21.7	-1.2	19.1
38TH	107.00	8	36.3	67	178	11.5	203.9	27	-1	-9.8	652.4	-19.7	-1.1	18.1
39TH	110.01	1.0	35.7	69	178	15.1	200.2	27	-1	-10.6	616.1	-17.8	-1.1	17.1
40TH	113.01	1.3	35.0	72	178	18.6	196.5	27	-1	-11.6	580.4	-16.0	-1.1	16.2
41ST	116.01	1.6	34.4	74	178	22.0	192.9	27	-1	-12.9	545.4	-14.3	-1.0	15.2
42ND	119.01	1.9	33.7	76	178	24.4	189.2	27	-1	-14.6	511.0	-12.7	-1.0	14.3
43RD	122.01	1.9	33.2	78	178	24.9	186.3	27	-2	-16.4	477.2	-11.3	-0.9	13.4
44TH	125.01	1.9	32.7	81	178	24.1	183.4	27	-2	-18.4	444.0	-9.9	-0.9	12.5
45TH	128.01	1.9	32.2	83	178	22.6	180.5	27	-2	-20.3	411.3	-8.6	-0.8	11.7
46TH	131.01	1.7	31.7	85	178	20.2	177.6	27	-1	-22.2	379.1	-7.4	-0.8	10.8
47TH	134.01	1.5	31.1	87	178	17.1	174.7	27	-1	-23.9	347.5	-6.3	-0.7	9.9
48TH	137.01	1.2	30.6	89	178	13.3	171.8	27	-1	-25.4	316.3	-5.3	-0.6	9.1
49TH	140.01	7	30.1	92	178	7.7	168.7	27	-1	-26.5	285.7	-4.4	-0.5	8.2
50TH	143.01	-3	58.2	190	357	-1.8	163.3	28	0	-27.3	255.6	-3.6	-0.5	7.4
51ST	149.01	-26.9	197.4	800	1351	-33.6	146.1	29	4	-26.9	197.4	-2.2	-0.3	5.8
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 30 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	-52.0	175.7	152	475	-342.4	369.5	27	8	-1070.3	4153.1	-339.8	-99.4	112.6
5TH	8.00	-19.1	69.2	57	178	-335.9	388.1	27	7	-1018.3	3977.4	-307.3	-91.1	107.4
6TH	11.00	-18.9	71.0	57	178	-332.3	398.3	26	7	-999.2	3908.2	-295.5	-88.1	105.4
7TH	14.00	-18.7	72.8	57	178	-328.7	408.4	26	7	-980.2	3837.2	-283.9	-85.1	103.4
8TH	17.00	-18.5	74.6	57	178	-325.2	418.6	26	6	-961.5	3764.4	-272.5	-82.2	101.3
9TH	20.00	-18.3	76.4	57	178	-321.6	428.7	26	6	-942.9	3689.8	-261.3	-79.3	99.3
10TH	23.00	-18.1	78.2	57	178	-318.1	438.9	26	6	-924.6	3613.4	-250.3	-76.5	97.2
11TH	26.00	-17.9	80.0	57	178	-314.5	449.0	25	6	-906.5	3535.1	-239.6	-73.8	95.1
12TH	29.00	-17.7	81.0	57	178	-310.8	454.1	25	6	-888.6	3455.1	-229.1	-71.1	92.9
13TH	32.00	-17.5	81.0	57	178	-307.0	454.5	25	5	-870.8	3374.1	-218.9	-68.4	90.8
14TH	35.00	-17.3	81.1	57	178	-303.2	454.8	25	5	-853.3	3293.1	-208.9	-65.8	88.6
15TH	38.00	-17.1	81.2	57	178	-299.4	455.2	25	5	-836.1	3212.0	-199.1	-63.3	86.5
16TH	41.00	-16.9	81.2	57	178	-295.6	455.6	25	5	-819.0	3130.9	-189.6	-60.8	84.4
17TH	44.00	-16.6	81.3	57	178	-291.8	455.9	25	5	-802.1	3049.6	-180.3	-58.4	82.2
18TH	47.00	-16.4	81.3	57	178	-288.1	456.3	25	5	-785.5	2968.4	-171.3	-56.0	80.1
19TH	50.00	-16.2	81.4	57	178	-284.3	456.7	25	5	-769.1	2887.0	-162.5	-53.7	78.0
20TH	53.00	-16.0	81.5	57	178	-280.6	457.0	25	5	-752.9	2805.6	-154.0	-51.4	75.9
21ST	56.00	-15.8	81.3	57	178	-277.1	455.9	25	5	-736.9	2724.1	-145.7	-49.2	73.8
22ND	59.00	-15.6	81.1	57	178	-273.6	454.8	25	5	-721.1	2642.9	-137.6	-47.0	71.6
23RD	62.00	-15.4	80.9	57	178	-270.2	453.8	25	5	-705.5	2561.8	-129.8	-44.8	69.5
24TH	65.00	-15.2	80.7	57	178	-266.7	452.7	25	5	-690.1	2480.9	-122.3	-42.7	67.4
25TH	68.00	-15.0	80.5	57	178	-263.2	451.6	25	5	-674.9	2400.2	-114.9	-40.7	65.4
26TH	71.00	-14.8	80.3	57	178	-259.7	450.6	25	5	-659.9	2319.6	-107.9	-38.7	63.3
27TH	74.00	-14.6	80.1	57	178	-256.2	449.5	25	5	-645.1	2239.3	-101.0	-36.7	61.2
28TH	77.00	-14.4	80.0	57	178	-252.7	448.5	25	5	-630.5	2159.2	-94.4	-34.8	59.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 30

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-14.4	79.7	57	178	-252.1	446.8	25	5	-616.1	2079.2	-88.1	-33.0	57.0
30TH	83.00	-14.3	79.3	57	178	-251.7	444.7	25	5	-601.7	1999.6	-81.9	-31.1	55.0
31ST	86.00	-14.3	78.9	57	178	-251.4	442.6	25	5	-587.4	1920.3	-76.1	-29.3	52.9
32ND	89.00	-14.3	78.5	57	178	-251.0	440.5	25	5	-573.0	1841.4	-70.4	-27.6	50.8
33RD	92.00	-14.3	78.2	57	178	-250.6	438.4	25	5	-558.7	1762.8	-65.0	-25.9	48.8
34TH	95.00	-14.3	77.8	58	178	-245.8	436.3	25	5	-544.4	1684.7	-59.8	-24.3	46.8
35TH	98.00	-14.4	77.4	61	178	-238.5	434.1	25	5	-530.1	1606.9	-54.9	-22.6	44.7
36TH	101.00	-14.6	76.7	63	178	-233.4	430.2	25	5	-515.7	1529.5	-50.2	-21.1	42.7
37TH	104.00	-14.8	75.9	65	178	-228.5	425.8	25	5	-501.0	1452.8	-45.7	-19.5	40.7
38TH	107.00	-15.0	75.1	67	178	-223.8	421.4	25	5	-486.2	1376.9	-41.5	-18.1	38.7
39TH	110.01	-15.2	74.3	69	178	-219.3	417.0	25	5	-471.2	1301.8	-37.5	-16.6	36.7
40TH	113.01	-15.4	73.5	72	178	-215.1	412.5	25	5	-455.9	1227.5	-33.7	-15.2	34.7
41ST	116.01	-15.6	72.8	74	178	-211.0	408.1	25	5	-440.5	1153.9	-30.1	-13.9	32.8
42ND	119.01	-15.9	72.0	76	178	-208.5	403.7	25	6	-425.0	1081.2	-26.7	-12.6	30.8
43RD	122.01	-16.4	71.0	78	178	-209.3	398.0	25	6	-409.1	1009.2	-23.6	-11.3	28.9
44TH	125.01	-17.1	70.0	81	178	-212.3	392.4	25	6	-392.7	938.2	-20.7	-10.1	27.0
45TH	128.01	-17.9	68.9	83	178	-216.6	386.7	25	7	-375.6	868.3	-18.0	-9.0	25.1
46TH	131.01	-18.9	67.9	85	178	-222.5	381.1	25	7	-357.7	799.3	-15.5	-7.9	23.3
47TH	134.01	-20.0	66.9	87	178	-229.8	375.5	25	7	-338.8	731.4	-13.2	-6.8	21.4
48TH	137.01	-21.3	65.9	89	178	-238.3	369.8	25	8	-318.8	664.4	-11.1	-5.9	19.6
49TH	140.01	-22.6	64.7	92	178	-246.3	363.1	25	9	-297.5	598.5	-9.2	-4.9	17.8
50TH	143.01	-48.8	124.4	190	357	-256.8	348.8	24	10	-274.9	533.8	-7.5	-4.1	16.0
51ST	149.01	-226.1	409.4	800	1351	-282.6	303.0	23	13	-226.1	409.4	-4.7	-2.6	12.5
TOP	171.76									0.0	0.0	0.0	0.0	0.0

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-1549.9	4576.3	-383.1	-147.1	121.7
5TH	8.00	-62.0	202.6	152	475	-407.6	426.3	24	7	-1488.0	4375.7	-347.3	-135.0	116.3
6TH	11.00	-23.2	77.5	57	178	-406.4	434.9	24	7	-1464.8	4298.1	-334.3	-130.5	114.2
7TH	14.00	-23.1	78.4	57	178	-405.8	439.6	24	7	-1441.7	4219.7	-321.5	-126.2	112.1
8TH	17.00	-23.1	79.2	57	178	-405.1	444.3	24	7	-1418.6	4140.5	-309.0	-121.9	110.0
9TH	20.00	-23.1	80.1	57	178	-404.5	449.1	24	7	-1395.5	4060.5	-296.7	-117.7	107.9
10TH	23.00	-23.0	80.9	57	178	-403.8	453.8	24	7	-1372.5	3979.6	-284.6	-113.5	105.8
11TH	26.00	-23.0	81.7	57	178	-403.2	458.5	24	7	-1349.5	3897.8	-272.8	-109.4	103.7
12TH	29.00	-22.9	82.6	57	178	-402.5	463.2	24	7	-1326.6	3815.3	-261.2	-105.4	101.5
13TH	32.00	-23.0	83.0	57	178	-403.3	465.8	24	7	-1303.6	3732.2	-249.9	-101.5	99.3
14TH	35.00	-23.0	83.1	57	178	-404.3	466.3	24	7	-1280.6	3649.1	-238.8	-97.6	97.2
15TH	38.00	-23.1	83.2	57	178	-405.3	466.9	24	7	-1257.5	3565.8	-228.0	-93.8	95.0
16TH	41.00	-23.2	83.3	57	178	-406.3	467.4	24	7	-1234.3	3482.5	-217.4	-90.0	92.9
17TH	44.00	-23.2	83.4	57	178	-407.2	468.0	24	7	-1211.1	3399.1	-207.1	-86.4	90.7
18TH	47.00	-23.3	83.5	57	178	-408.2	468.5	24	7	-1187.8	3315.6	-197.0	-82.8	88.6
19TH	50.00	-23.3	83.6	57	178	-409.2	469.1	24	7	-1164.5	3231.9	-187.2	-79.2	86.4
20TH	53.00	-23.4	83.7	57	178	-410.2	469.6	24	7	-1141.1	3148.2	-177.6	-75.8	84.3
21ST	56.00	-23.4	83.8	57	178	-410.9	470.2	24	7	-1117.7	3064.4	-168.3	-72.4	82.1
22ND	59.00	-23.4	84.1	57	178	-411.3	471.6	24	7	-1094.2	2980.3	-159.3	-69.1	79.9
23RD	62.00	-23.5	84.3	57	178	-411.6	472.9	24	7	-1070.8	2896.0	-150.4	-65.8	77.8
24TH	65.00	-23.5	84.5	57	178	-411.9	474.2	24	7	-1047.3	2811.4	-141.9	-62.7	75.6
25TH	68.00	-23.5	84.8	57	178	-412.2	475.6	24	7	-1023.8	2726.7	-133.6	-59.5	73.4
26TH	71.00	-23.5	85.0	57	178	-412.5	476.9	24	7	-1000.3	2641.6	-125.5	-56.5	71.2
27TH	74.00	-23.5	85.3	57	178	-412.8	478.3	24	7	-976.8	2556.4	-117.7	-53.5	69.0
28TH	77.00	-23.5	85.5	57	178	-413.1	479.6	24	7	-953.2	2470.8	-110.2	-50.6	66.8
		-23.6	85.8	57	178	-413.5	481.0	24	7					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 40

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-23.6	85.9	57	178	-413.6	481.7	24	7	-929.7	2385.1	-102.9	-47.8	64.5
30TH	83.00	-23.6	85.9	57	178	-413.6	482.0	24	7	-906.1	2299.2	-95.9	-45.1	62.3
31ST	86.00	-23.6	86.0	57	178	-413.7	482.3	24	7	-882.5	2213.3	-89.1	-42.4	60.0
32ND	89.00	-23.6	86.0	57	178	-413.8	482.6	24	7	-858.9	2127.3	-82.6	-39.8	57.8
33RD	92.00	-23.6	86.1	57	178	-413.8	483.0	24	7	-835.3	2041.2	-76.3	-37.2	55.5
34TH	95.00	-23.8	86.2	58	178	-407.8	483.3	24	7	-811.8	1955.1	-70.3	-34.8	53.3
35TH	98.00	-24.1	86.2	61	178	-397.9	483.6	24	7	-788.0	1869.0	-64.6	-32.4	51.0
36TH	101.00	-24.4	85.9	63	178	-388.4	481.9	24	7	-763.9	1782.8	-59.1	-30.0	48.8
37TH	104.00	-24.6	85.5	65	178	-379.4	479.8	24	7	-739.5	1696.8	-53.9	-27.8	46.6
38TH	107.00	-24.9	85.2	67	178	-370.9	477.7	24	7	-714.9	1611.3	-48.9	-25.6	44.3
39TH	110.01	-25.2	84.8	69	178	-362.7	475.7	24	7	-690.0	1526.1	-44.2	-23.5	42.1
40TH	113.01	-25.4	84.4	72	178	-354.9	473.6	24	7	-664.8	1441.3	-39.8	-21.5	39.9
41ST	116.01	-25.7	84.1	74	178	-347.4	471.5	24	7	-639.4	1356.9	-35.6	-19.5	37.7
42ND	119.01	-26.0	83.7	76	178	-342.3	469.2	24	7	-613.7	1272.8	-31.6	-17.6	35.5
43RD	122.01	-26.7	82.6	78	178	-341.5	463.3	24	8	-587.7	1189.2	-28.0	-15.8	33.3
44TH	125.01	-27.6	81.5	81	178	-342.6	457.3	24	8	-560.9	1106.6	-24.5	-14.1	31.1
45TH	128.01	-28.5	80.5	83	178	-344.7	451.3	24	8	-533.4	1025.1	-21.3	-12.5	29.0
46TH	131.01	-29.6	79.4	85	178	-348.2	445.3	23	9	-504.8	944.6	-18.4	-10.9	26.8
47TH	134.01	-30.7	78.3	87	178	-352.7	439.3	23	9	-475.3	865.2	-15.6	-9.4	24.7
48TH	137.01	-32.0	77.3	89	178	-358.4	433.4	23	10	-444.5	786.9	-13.2	-8.0	22.6
49TH	140.01	-33.3	76.0	92	178	-363.6	426.2	23	10	-412.5	709.6	-10.9	-6.8	20.5
50TH	143.01	-70.4	146.4	190	357	-370.6	410.6	23	11	-379.2	633.7	-8.9	-5.6	18.4
51ST	149.01	-308.8	487.3	800	1351	-385.9	360.6	21	13	-308.8	487.3	-5.5	-3.5	14.4
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 50 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	-48.6	217.6	152	475	-319.9	457.7	24	5	-1118.2	4995.0	-425.3	-104.7	131.2
5TH	8.00	-17.9	82.8	57	178	-313.8	464.3	25	5	-1069.5	4777.4	-386.2	-95.9	125.6
6TH	11.00	-17.7	83.4	57	178	-310.5	467.9	25	5	-1051.7	4694.7	-372.0	-92.7	123.5
7TH	14.00	-17.5	84.1	57	178	-307.1	471.5	25	5	-1034.0	4611.2	-358.0	-89.6	121.3
8TH	17.00	-17.3	84.7	57	178	-303.8	475.1	25	5	-1016.5	4527.2	-344.3	-86.5	119.1
9TH	20.00	-17.1	85.3	57	178	-300.5	478.7	25	5	-999.1	4442.5	-330.9	-83.5	117.0
10TH	23.00	-16.9	86.0	57	178	-297.2	482.3	25	5	-982.0	4357.2	-317.7	-80.5	114.8
11TH	26.00	-16.8	86.6	57	178	-293.9	485.9	25	5	-965.1	4271.2	-304.7	-77.6	112.6
12TH	29.00	-16.9	87.1	57	178	-295.8	488.6	25	5	-948.3	4184.5	-292.1	-74.7	110.3
13TH	32.00	-17.0	87.4	57	178	-298.6	490.4	25	5	-931.5	4097.4	-279.6	-71.9	108.1
14TH	35.00	-17.2	87.8	57	178	-301.4	492.3	25	5	-914.4	4010.0	-267.5	-69.2	105.8
15TH	38.00	-17.3	88.1	57	178	-304.2	494.2	25	5	-897.3	3922.2	-255.6	-66.4	103.6
16TH	41.00	-17.5	88.4	57	178	-307.0	496.0	25	5	-879.9	3834.1	-243.9	-63.8	101.3
17TH	44.00	-17.7	88.8	57	178	-309.8	497.9	25	5	-862.4	3745.7	-232.6	-61.2	99.0
18TH	47.00	-17.8	89.1	57	178	-312.5	499.8	25	5	-844.8	3656.9	-221.5	-58.6	96.7
19TH	50.00	-18.0	89.4	57	178	-315.3	501.6	25	5	-827.0	3567.8	-210.6	-56.1	94.4
20TH	53.00	-18.1	89.8	57	178	-316.7	503.5	25	5	-809.0	3478.4	-200.1	-53.6	92.1
21ST	56.00	-18.0	89.9	57	178	-315.9	504.5	25	5	-790.9	3388.6	-189.8	-51.2	89.8
22ND	59.00	-18.0	90.1	57	178	-315.0	505.5	25	5	-772.9	3298.7	-179.7	-48.9	87.5
23RD	62.00	-17.9	90.3	57	178	-314.1	506.6	25	5	-755.0	3208.6	-170.0	-46.6	85.2
24TH	65.00	-17.9	90.5	57	178	-313.3	507.6	25	5	-737.1	3118.3	-160.5	-44.4	82.8
25TH	68.00	-17.8	90.7	57	178	-312.4	508.6	25	5	-719.2	3027.8	-151.3	-42.2	80.5
26TH	71.00	-17.8	90.9	57	178	-311.5	509.6	25	5	-701.4	2937.1	-142.3	-40.0	78.1
27TH	74.00	-17.7	91.0	57	178	-310.7	510.7	25	5	-683.7	2846.2	-133.6	-38.0	75.7
28TH	77.00	-17.7	91.2	57	178	-309.8	511.7	25	5	-665.9	2755.2	-125.2	-35.9	73.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 50

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-17.5	91.5	57	178	-307.5	513.2	25	5	-648.3	2664.0	-117.1	-34.0	71.0
30TH	83.00	-17.4	91.8	57	178	-305.0	515.0	25	5	-630.8	2572.5	-109.2	-32.1	68.6
31ST	86.00	-17.2	92.1	57	178	-302.6	516.8	25	5	-613.4	2480.7	-101.7	-30.2	66.2
32ND	89.00	-17.1	92.5	57	178	-300.1	518.6	25	5	-596.1	2388.5	-94.4	-28.4	63.8
33RD	92.00	-17.0	92.8	57	178	-297.6	520.4	25	5	-579.0	2296.1	-87.3	-26.6	61.4
34TH	95.00	-16.9	93.1	58	178	-289.7	522.2	25	5	-562.0	2203.3	-80.6	-24.9	59.0
35TH	98.00	-16.8	93.4	61	178	-278.2	524.0	25	5	-545.2	2110.2	-74.1	-23.2	56.5
36TH	101.00	-16.7	93.4	63	178	-266.6	523.8	25	5	-528.3	2016.8	-67.9	-21.6	54.1
37TH	104.00	-16.6	93.3	65	178	-255.3	523.2	25	4	-511.6	1923.4	-62.0	-20.1	51.7
38TH	107.00	-16.4	93.2	67	178	-244.3	522.7	25	4	-495.0	1830.1	-56.4	-18.6	49.2
39TH	110.01	-16.2	93.1	69	178	-233.6	522.1	25	4	-478.6	1736.9	-51.0	-17.1	46.8
40TH	113.01	-16.0	93.0	72	178	-223.1	521.5	25	4	-462.4	1643.9	-46.0	-15.7	44.4
41ST	116.01	-15.7	92.9	74	178	-212.9	520.9	25	4	-446.4	1550.9	-41.2	-14.3	41.9
42ND	119.01	-15.6	92.7	76	178	-205.4	520.2	25	4	-430.7	1458.0	-36.6	-13.0	39.5
43RD	122.01	-15.9	92.0	78	178	-203.6	515.9	25	4	-415.1	1365.3	-32.4	-11.7	37.1
44TH	125.01	-16.5	91.2	81	178	-204.5	511.6	25	5	-399.1	1273.3	-28.5	-10.5	34.7
45TH	128.01	-17.1	90.4	83	178	-207.1	507.3	25	5	-382.7	1182.1	-24.8	-9.3	32.3
46TH	131.01	-18.0	89.7	85	178	-211.8	503.1	25	5	-365.5	1091.7	-21.4	-8.2	29.9
47TH	134.01	-19.0	88.9	87	178	-218.2	498.8	25	5	-347.5	1002.0	-18.2	-7.1	27.6
48TH	137.01	-20.2	88.2	89	178	-226.2	494.5	25	6	-328.5	913.0	-15.3	-6.1	25.2
49TH	140.01	-21.7	87.1	92	178	-236.8	488.5	25	6	-308.3	824.9	-12.7	-5.2	22.9
50TH	143.01	-48.2	168.5	190	357	-253.7	472.5	25	7	-286.6	737.8	-10.4	-4.3	20.6
51ST	149.01	-238.4	569.3	800	1351	-297.9	421.4	24	10	-238.4	569.3	-6.5	-2.7	16.1
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 60 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KH)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	-33.4	208.4	152	475	-219.6	438.4	24	4	-369.4	5096.0	-442.5	-30.5	129.6
5TH	8.00	-11.5	79.6	57	178	-202.0	446.7	24	3	-336.0	4887.6	-402.5	-27.7	124.5
6TH	11.00	-11.0	80.4	57	178	-192.5	451.2	24	3	-324.5	4808.0	-388.0	-26.7	122.5
7TH	14.00	-10.4	81.2	57	178	-182.9	455.6	24	3	-313.5	4727.5	-373.7	-25.8	120.6
8TH	17.00	-9.9	82.0	57	178	-173.3	460.1	24	3	-303.1	4646.3	-359.6	-24.8	118.6
9TH	20.00	-9.3	82.8	57	178	-163.7	464.6	24	3	-293.2	4564.3	-345.8	-24.0	116.6
10TH	23.00	-8.8	83.6	57	178	-154.1	469.1	24	3	-283.9	4481.4	-332.3	-23.1	114.5
11TH	26.00	-8.2	84.4	57	178	-144.5	473.6	24	2	-275.1	4397.8	-318.9	-22.2	112.5
12TH	29.00	-8.0	85.1	57	178	-140.1	477.3	24	2	-266.8	4313.4	-305.9	-21.4	110.4
13TH	32.00	-7.8	85.6	57	178	-136.6	480.3	24	2	-258.9	4228.3	-293.1	-20.6	108.3
14TH	35.00	-7.6	86.2	57	178	-133.1	483.3	24	2	-251.1	4142.6	-280.5	-19.9	106.2
15TH	38.00	-7.4	86.7	57	178	-129.5	486.3	24	2	-243.5	4056.5	-268.2	-19.1	104.1
16TH	41.00	-7.2	87.2	57	178	-126.0	489.3	24	2	-236.1	3969.8	-256.2	-18.4	102.0
17TH	44.00	-7.0	87.8	57	178	-122.5	492.3	24	2	-228.9	3882.6	-244.4	-17.7	99.9
18TH	47.00	-6.8	88.3	57	178	-118.9	495.3	25	2	-221.9	3794.8	-232.9	-17.0	97.7
19TH	50.00	-6.6	88.8	57	178	-115.4	498.3	25	2	-215.2	3706.5	-221.6	-16.4	95.5
20TH	53.00	-6.4	89.4	57	178	-111.7	501.2	25	2	-208.6	3617.7	-210.6	-15.8	93.3
21ST	56.00	-6.1	89.9	57	178	-107.6	504.1	25	2	-202.2	3528.3	-199.9	-15.1	91.1
22ND	59.00	-5.9	90.4	57	178	-103.6	507.0	25	2	-196.1	3438.4	-189.5	-14.5	88.9
23RD	62.00	-5.7	90.9	57	178	-99.5	509.9	25	2	-190.2	3348.1	-179.3	-14.0	86.6
24TH	65.00	-5.4	91.4	57	178	-95.4	512.7	25	1	-184.5	3257.2	-169.4	-13.4	84.3
25TH	68.00	-5.2	91.9	57	178	-91.4	515.6	25	1	-179.1	3165.8	-159.7	-12.9	82.0
26TH	71.00	-5.0	92.4	57	178	-87.3	518.5	25	1	-173.9	3073.8	-150.4	-12.3	79.7
27TH	74.00	-4.7	92.9	57	178	-83.3	521.3	25	1	-168.9	2981.4	-141.3	-11.8	77.4
28TH	77.00	-4.5	93.5	57	178	-79.2	524.2	25	1	-164.1	2888.5	-132.5	-11.3	75.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
WIND DIRECTION 60 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									-159.6	2795.0	-124.0	-10.8	72.7
30TH	83.00	-4.2	93.9	57	178	-72.9	526.8	25	1	-155.5	2701.1	-115.7	-10.4	70.3
31ST	86.00	-3.8	94.4	57	178	-66.3	529.3	25	1	-151.7	2606.7	-107.7	-9.9	67.9
32ND	89.00	-3.4	94.8	57	178	-59.8	531.7	25	1	-148.3	2511.9	-100.1	-9.4	65.5
33RD	92.00	-3.0	95.2	57	178	-53.2	534.1	25	1	-145.2	2416.7	-92.7	-9.0	63.1
34TH	95.00	-2.7	95.7	57	178	-46.7	536.6	25	1	-142.6	2321.0	-85.6	-8.6	60.7
35TH	98.00	-2.2	96.1	58	178	-38.2	539.0	25	1	-140.4	2225.0	-78.7	-8.1	58.2
36TH	101.00	-1.8	96.5	61	178	-29.0	541.4	25	0	-138.6	2128.4	-72.2	-7.7	55.8
37TH	104.00	-1.4	96.6	63	178	-21.9	542.1	25	0	-137.2	2031.8	-66.0	-7.3	53.3
38TH	107.00	-1.0	96.7	65	178	-15.0	542.3	26	0	-136.3	1935.1	-60.0	-6.9	50.8
39TH	110.01	-.6	96.7	67	178	-8.3	542.5	26	0	-135.7	1838.4	-54.4	-6.5	48.3
40TH	113.01	-.1	96.8	69	178	-1.8	542.7	26	0	-135.6	1741.6	-49.0	-6.1	45.9
41ST	116.01	.3	96.8	72	178	4.5	543.0	26	-0	-135.9	1644.8	-43.9	-5.7	43.4
42ND	119.01	.8	96.8	74	178	10.7	543.2	26	-0	-136.7	1548.0	-39.1	-5.3	40.9
43RD	122.01	1.0	96.9	76	178	13.6	543.3	26	-0	-137.7	1451.1	-34.6	-4.9	38.3
44TH	125.01	.8	96.3	78	178	10.2	540.0	26	-0	-138.5	1354.9	-30.4	-4.4	35.9
45TH	128.01	.3	95.7	81	178	4.0	536.7	26	-0	-138.8	1259.2	-26.5	-4.0	33.4
46TH	131.01	-.3	95.1	83	178	-3.6	533.4	26	0	-138.5	1164.1	-22.9	-3.6	30.9
47TH	134.01	-1.1	94.5	85	178	-13.4	530.2	26	0	-137.4	1069.6	-19.5	-3.2	28.5
48TH	137.01	-2.2	93.9	87	178	-24.8	526.9	26	1	-135.2	975.6	-16.4	-2.8	26.0
49TH	140.01	-3.4	93.4	89	178	-37.7	523.6	26	1	-131.9	882.3	-13.7	-2.4	23.6
50TH	143.01	-4.8	92.4	92	178	-52.7	518.4	26	1	-127.0	789.9	-11.1	-2.0	21.3
51ST	149.01	-14.4	179.2	190	357	-75.6	502.6	26	2	-112.7	610.7	-6.9	-1.3	16.6
TOP	171.76	-112.7	610.7	800	1351	-140.8	452.0	26	5	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 70 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	-14.8	227.5	152	475	-97.5	478.6	23	2	191.1	5625.6	-489.2	22.8	135.6
5TH	8.00	-4.2	87.2	57	178	-74.5	489.1	23	1	205.9	5398.1	-445.1	21.2	130.3
6TH	11.00	-3.5	88.2	57	178	-61.9	494.9	23	1	210.2	5310.9	-429.0	20.6	128.2
7TH	14.00	-2.8	89.3	57	178	-49.4	500.6	23	1	213.7	5222.7	-413.2	19.9	126.1
8TH	17.00	-2.1	90.3	57	178	-36.9	506.4	23	1	216.5	5133.4	-397.7	19.3	124.1
9TH	20.00	-1.4	91.3	57	178	-24.3	512.2	23	0	218.6	5043.1	-382.4	18.6	121.9
10TH	23.00	-.7	92.3	57	178	-11.8	517.9	23	0	220.0	4951.8	-367.5	18.0	119.8
11TH	26.00	.0	93.4	57	178	.8	523.7	23	-0	220.7	4859.5	-352.7	17.3	117.7
12TH	29.00	.4	94.1	57	178	7.2	529.0	23	-0	220.6	4766.1	-338.3	16.6	115.5
13TH	32.00	.7	94.7	57	178	12.5	531.0	23	-0	220.2	4672.0	-324.1	16.0	113.3
14TH	35.00	1.0	95.2	57	178	17.9	534.0	23	-0	219.5	4577.3	-310.3	15.3	111.1
15TH	38.00	1.3	95.7	57	178	23.2	537.0	23	-0	218.5	4482.1	-296.7	14.7	108.8
16TH	41.00	1.6	96.3	57	178	28.6	540.0	24	-0	217.2	4386.4	-283.4	14.0	106.6
17TH	44.00	1.9	96.8	57	178	33.9	542.9	24	-0	215.5	4290.1	-270.4	13.4	104.3
18TH	47.00	2.2	97.3	57	178	39.3	545.9	24	-1	213.6	4193.3	-257.6	12.7	102.0
19TH	50.00	2.5	97.9	57	178	44.6	548.9	24	-1	211.4	4096.0	-245.2	12.1	99.7
20TH	53.00	2.8	98.4	57	178	49.2	551.9	24	-1	208.8	3998.2	-233.1	11.5	97.4
21ST	56.00	3.0	99.1	57	178	52.4	555.7	24	-1	206.0	3899.8	-221.2	10.8	95.1
22ND	59.00	3.2	99.7	57	178	55.7	559.5	24	-1	203.0	3800.7	-209.7	10.2	92.8
23RD	62.00	3.4	100.4	57	178	58.9	563.3	24	-1	199.9	3700.9	-198.4	9.6	90.4
24TH	65.00	3.5	101.1	57	178	62.2	567.1	24	-1	196.5	3600.5	-187.4	9.0	88.0
25TH	68.00	3.7	101.8	57	178	65.5	570.8	24	-1	193.0	3499.4	-176.8	8.4	85.6
26TH	71.00	3.9	102.4	57	178	68.7	574.6	24	-1	189.2	3397.7	-166.5	7.9	83.2
27TH	74.00	4.1	103.1	57	178	72.0	578.4	24	-1	185.3	3295.2	-156.4	7.3	80.7
28TH	77.00	4.3	103.8	57	178	75.2	582.2	24	-1	181.2	3192.1	-146.7	6.7	78.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 70

MOMENT DIAGRAMS :
CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	4.7	104.3	57	178	82.1	584.9	24	-1	176.9	3088.3	-137.3	6.2	75.8
30TH	83.00	5.1	104.6	57	178	89.3	586.9	24	-1	172.2	2984.0	-128.2	5.7	73.3
31ST	86.00	5.5	105.0	57	178	96.5	588.8	24	-1	167.1	2879.4	-119.4	5.2	70.8
32ND	89.00	5.9	105.3	57	178	103.6	590.8	24	-1	161.7	2774.4	-110.9	4.7	68.2
33RD	92.00	6.3	105.7	57	178	110.8	592.8	24	-1	155.7	2669.1	-102.7	4.2	65.7
34TH	95.00	6.8	106.0	58	178	117.5	594.7	24	-2	149.4	2563.4	-94.9	3.7	63.1
35TH	98.00	7.5	106.4	61	178	123.1	596.7	24	-2	142.6	2457.4	-87.3	3.3	60.6
36TH	101.00	7.9	106.5	63	178	125.7	597.1	24	-2	135.1	2351.0	-80.1	2.9	58.0
37TH	104.00	8.3	106.5	65	178	128.4	597.2	24	-2	127.2	2244.6	-73.2	2.5	55.4
38TH	107.00	8.8	106.5	67	178	131.2	597.3	24	-2	118.9	2138.1	-66.6	2.1	52.8
39TH	110.01	9.3	106.5	69	178	134.1	597.4	24	-2	110.1	2031.6	-60.4	1.8	50.2
40TH	113.01	9.8	106.5	72	178	137.2	597.5	24	-2	100.8	1925.1	-54.5	1.5	47.6
41ST	116.01	10.4	106.5	74	178	140.4	597.6	24	-2	90.9	1818.6	-48.8	1.2	45.0
42ND	119.01	10.7	106.5	76	178	141.0	597.5	24	-2	80.6	1712.0	-43.5	.9	42.3
43RD	122.01	10.7	105.7	78	178	136.4	593.0	24	-2	69.9	1605.5	-38.6	.7	39.7
44TH	125.01	10.4	104.9	81	178	129.4	588.5	24	-2	59.2	1499.8	-33.9	.5	37.1
45TH	128.01	10.0	104.1	83	178	121.1	583.9	24	-2	48.8	1394.9	-29.6	.3	34.6
46TH	131.01	9.4	103.3	85	178	111.0	579.4	24	-2	38.7	1290.8	-25.5	.2	32.0
47TH	134.01	8.7	102.5	87	178	99.5	574.9	24	-2	29.3	1187.5	-21.8	.1	29.5
48TH	137.01	7.8	101.7	89	178	86.7	570.3	24	-2	20.6	1085.0	-18.4	.0	27.0
49TH	140.01	6.7	100.7	92	178	73.4	564.6	24	-2	12.9	983.3	-15.3	-.0	24.6
50TH	143.01	10.3	196.5	190	357	54.1	551.1	24	-1	6.2	882.7	-12.5	-.0	22.1
51ST	149.01	-4.1	686.2	800	1351	-5.1	507.8	25	0	-4.1	686.2	-7.8	-.0	17.3
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 80

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	-5.7	245.2	152	475	-37.7	515.8	23	1	56.5	5993.8	-518.7	7.1	138.0
5TH	8.00	-1.8	94.2	57	178	-31.4	528.4	23	0	62.2	5748.6	-471.8	6.7	132.4
6TH	11.00	-1.6	95.4	57	178	-27.9	535.3	23	0	64.0	5654.4	-454.7	6.5	130.3
7TH	14.00	-1.4	96.7	57	178	-24.5	542.2	23	0	65.6	5559.0	-437.8	6.3	128.1
8TH	17.00	-1.2	97.9	57	178	-21.0	549.1	23	0	67.0	5462.3	-421.3	6.1	125.9
9TH	20.00	-1.0	99.1	57	178	-17.5	556.0	23	0	68.2	5364.4	-405.1	5.9	123.7
10TH	23.00	-.8	100.3	57	178	-14.1	562.9	23	0	69.2	5265.3	-389.1	5.7	121.5
11TH	26.00	-.6	101.6	57	178	-10.6	569.8	23	0	70.0	5164.9	-373.5	5.5	119.2
12TH	29.00	-.5	102.5	57	178	-8.3	574.7	23	0	70.6	5063.4	-358.1	5.2	116.9
13TH	32.00	-.4	103.0	57	178	-6.2	577.8	23	0	71.1	4960.9	-343.1	5.0	114.6
14TH	35.00	-.2	103.6	57	178	-4.0	581.0	23	0	71.4	4857.9	-328.4	4.8	112.2
15TH	38.00	-.1	104.1	57	178	-1.9	584.1	23	0	71.7	4754.3	-314.0	4.6	109.9
16TH	41.00	.0	104.7	57	178	.2	587.2	23	-0	71.8	4650.2	-299.8	4.4	107.5
17TH	44.00	.1	105.2	57	178	2.3	590.3	23	-0	71.8	4545.5	-286.1	4.2	105.2
18TH	47.00	.3	105.8	57	178	4.5	593.5	23	-0	71.6	4440.3	-272.6	4.0	102.8
19TH	50.00	.4	106.4	57	178	6.6	596.6	23	-0	71.4	4334.4	-259.4	3.7	100.4
20TH	53.00	.5	106.9	57	178	9.0	599.6	23	-0	71.0	4228.1	-246.6	3.5	98.0
21ST	56.00	.7	107.2	57	178	12.0	601.3	23	-0	70.5	4121.2	-234.0	3.3	95.5
22ND	59.00	.9	107.5	57	178	14.9	603.0	23	-0	69.8	4014.0	-221.8	3.1	93.1
23RD	62.00	1.0	107.8	57	178	17.9	604.8	23	-0	68.9	3906.5	-210.0	2.9	90.6
24TH	65.00	1.2	108.1	57	178	20.8	606.5	23	-0	67.9	3798.6	-198.4	2.7	88.2
25TH	68.00	1.4	108.4	57	178	23.8	608.2	23	-0	66.7	3690.5	-187.2	2.5	85.7
26TH	71.00	1.5	108.7	57	178	26.8	609.9	23	-0	65.4	3582.1	-176.3	2.3	83.2
27TH	74.00	1.7	109.0	57	178	29.7	611.6	23	-0	63.9	3473.4	-165.7	2.1	80.8
28TH	77.00	1.9	109.3	57	178	32.7	613.3	23	-0	62.2	3364.4	-155.4	1.9	78.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS I
WIND DIRECTION 80 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	2.0	109.5	57	178	34.9	614.4	23	-0	60.3	3255.0	-145.5	1.7	75.8
30TH	83.00	2.1	109.7	57	178	37.0	615.2	23	-0	58.3	3145.5	-135.9	1.5	73.2
31ST	86.00	2.2	109.8	57	178	39.2	616.0	23	-0	56.2	3035.8	-126.6	1.4	70.7
32ND	89.00	2.4	110.0	57	178	41.3	616.7	23	-0	54.0	2926.0	-117.7	1.2	68.2
33RD	92.00	2.5	110.1	57	178	43.5	617.5	23	-1	51.6	2816.0	-109.1	1.0	65.7
34TH	95.00	2.7	110.2	58	178	45.7	618.3	23	-1	49.1	2705.9	-100.8	.9	63.1
35TH	98.00	2.9	110.4	61	178	47.8	619.1	23	-1	46.5	2595.7	-92.8	.8	60.5
36TH	101.00	3.1	110.5	63	178	49.2	619.6	23	-1	43.6	2485.3	-85.2	.6	58.0
37TH	104.00	3.3	110.6	65	178	50.6	620.1	23	-1	40.5	2374.9	-77.9	.5	55.4
38TH	107.00	3.5	110.6	67	178	52.0	620.6	23	-1	37.2	2264.3	-70.9	.4	52.8
39TH	110.01	3.7	110.7	69	178	53.4	621.1	23	-1	33.7	2153.7	-64.3	.3	50.3
40TH	113.01	3.9	110.8	72	178	54.8	621.6	23	-1	30.0	2042.9	-58.0	.2	47.7
41ST	116.01	4.1	110.9	74	178	56.2	622.1	23	-1	26.1	1932.1	-52.1	.1	45.1
42ND	119.01	4.3	111.0	76	178	56.4	622.5	23	-1	21.9	1821.2	-46.4	.0	42.5
43RD	122.01	4.2	110.7	78	178	54.1	621.0	23	-1	17.6	1710.2	-41.1	-.0	40.0
44TH	125.01	4.1	110.4	81	178	50.5	619.5	23	-1	13.4	1599.5	-36.2	-.1	37.4
45TH	128.01	3.8	110.2	83	178	46.3	618.0	23	-1	9.3	1489.1	-31.5	-.1	34.9
46TH	131.01	3.5	109.9	85	178	41.1	616.4	23	-1	5.5	1378.9	-27.2	-.1	32.3
47TH	134.01	3.1	109.6	87	178	35.2	614.9	23	-1	2.0	1269.0	-23.3	-.2	29.8
48TH	137.01	2.6	109.4	89	178	28.5	613.4	23	-1	-1.0	1159.4	-19.6	-.2	27.2
49TH	140.01	2.0	108.6	92	178	22.3	609.4	23	-0	-3.6	1050.0	-16.3	-.1	24.7
50TH	143.01	2.6	211.4	190	357	13.8	592.9	23	-0	-5.6	941.4	-13.3	-.1	22.2
51ST	149.01	-8.3	730.0	800	1351	-10.3	540.3	24	0	-8.3	730.0	-8.3	-.1	17.3
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
WIND DIRECTION 90 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		GUST FACTOR 1.00 MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	Z		
4TH	0.00	-4.2	255.9	152	475	-27.9	538.2	22	0	-82.7	6092.8	-525.8	-6.2	134.4
5TH	8.00	-2.0	97.8	57	178	-34.5	548.4	22	0	-78.4	5836.9	-478.1	-5.5	128.7
6TH	11.00	-2.2	98.8	57	178	-38.0	554.0	22	0	-76.5	5739.2	-460.7	-5.3	126.6
7TH	14.00	-2.4	99.8	57	178	-41.6	559.5	22	1	-74.3	5640.4	-443.6	-5.1	124.4
8TH	17.00	-2.6	100.7	57	178	-45.2	565.1	22	1	-71.9	5540.6	-426.9	-4.8	122.2
9TH	20.00	-2.8	101.7	57	178	-48.8	570.7	22	1	-69.3	5439.9	-410.4	-4.6	120.0
10TH	23.00	-3.0	102.7	57	178	-52.4	576.2	22	1	-66.6	5338.2	-394.2	-4.4	117.8
11TH	26.00	-3.2	103.7	57	178	-55.9	581.8	22	1	-63.6	5235.4	-378.4	-4.2	115.5
12TH	29.00	-3.1	104.5	57	178	-53.9	585.9	22	1	-60.4	5131.7	-362.8	-4.0	113.3
13TH	32.00	-2.9	105.0	57	178	-50.9	588.8	22	1	-57.3	5027.3	-347.6	-3.9	111.0
14TH	35.00	-2.7	105.5	57	178	-47.9	591.7	22	1	-54.4	4922.3	-332.7	-3.7	108.7
15TH	38.00	-2.6	106.0	57	178	-44.9	594.5	22	1	-51.7	4816.8	-318.0	-3.5	106.4
16TH	41.00	-2.4	106.5	57	178	-42.0	597.4	22	0	-49.1	4710.8	-303.8	-3.4	104.1
17TH	44.00	-2.2	107.0	57	178	-39.0	600.3	22	0	-46.7	4604.3	-289.8	-3.2	101.7
18TH	47.00	-2.1	107.5	57	178	-36.0	603.1	22	0	-44.5	4497.3	-276.1	-3.1	99.4
19TH	50.00	-1.9	108.0	57	178	-33.0	606.0	22	0	-42.4	4389.7	-262.8	-3.0	97.0
20TH	53.00	-1.7	108.5	57	178	-30.4	608.8	22	0	-40.6	4281.7	-249.8	-2.8	94.6
21ST	56.00	-1.6	108.6	57	178	-28.4	609.4	22	0	-38.8	4173.2	-237.1	-2.7	92.2
22ND	59.00	-1.5	108.8	57	178	-26.4	610.1	22	0	-37.2	4064.5	-224.8	-2.6	89.8
23RD	62.00	-1.4	108.9	57	178	-24.3	610.7	22	0	-35.7	3955.8	-212.7	-2.5	87.4
24TH	65.00	-1.3	109.0	57	178	-22.3	611.3	22	0	-34.3	3846.9	-201.0	-2.4	85.0
25TH	68.00	-1.2	109.1	57	178	-20.3	612.0	22	0	-33.0	3737.9	-189.6	-2.3	82.6
26TH	71.00	-1.0	109.2	57	178	-18.3	612.6	22	0	-31.9	3628.8	-178.6	-2.2	80.2
27TH	74.00	-.9	109.3	57	178	-16.3	613.3	22	0	-30.8	3519.6	-167.9	-2.1	77.8
28TH	77.00	-.8	109.4	57	178	-14.3	613.9	22	0	-29.9	3410.3	-157.5	-2.0	75.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 90

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									-29.1	3300.8	-147.4	-1.9	73.0
30TH	83.00	-7	109.7	57	178	-12.7	615.6	22	0	-28.4	3191.1	-137.7	-1.8	70.6
31ST	86.00	-6	110.2	57	178	-11.1	618.0	22	0	-27.8	3080.9	-128.3	-1.8	68.1
32ND	89.00	-5	110.6	57	178	-9.6	620.4	22	0	-27.2	2970.3	-119.2	-1.7	65.7
33RD	92.00	-5	111.0	57	178	-8.1	622.8	22	0	-26.7	2859.2	-110.4	-1.6	63.2
34TH	95.00	-4	111.5	57	178	-6.5	625.3	22	0	-26.4	2747.8	-102.0	-1.5	60.8
35TH	98.00	-3	111.9	58	179	-4.9	627.7	22	0	-26.1	2635.9	-93.9	-1.4	58.3
36TH	101.00	-2	112.3	61	178	-3.4	630.1	22	0	-25.9	2523.5	-86.2	-1.4	55.8
37TH	104.00	-2	112.6	63	179	-2.8	631.5	22	0	-25.7	2410.9	-78.8	-1.3	53.3
38TH	107.00	-1	112.8	65	178	-2.2	632.6	22	0	-25.6	2298.1	-71.7	-1.2	50.8
39TH	110.01	-1	113.0	67	178	-1.7	633.8	22	0	-25.4	2185.2	-65.0	-1.1	48.3
40TH	113.01	-1	113.2	69	178	-1.3	634.9	22	0	-25.4	2072.0	-58.6	-1.1	45.8
41ST	116.01	-1	113.4	72	178	-9	636.1	22	0	-25.3	1958.6	-52.6	-1.0	43.3
42ND	119.01	-0	113.6	74	178	-5	637.2	22	0	-25.3	1844.9	-46.9	-9	40.8
43RD	122.01	-1	113.8	76	178	-8	638.2	22	0	-25.2	1731.2	-41.5	-8	38.3
44TH	125.01	-2	113.3	78	178	-2.1	635.4	22	0	-25.0	1617.9	-36.5	-7	35.8
45TH	128.01	-3	112.8	81	178	-3.5	632.7	22	0	-24.7	1505.1	-31.8	-7	33.3
46TH	131.01	-4	112.3	83	178	-5.0	629.9	22	0	-24.3	1392.8	-27.5	-6	30.8
47TH	134.01	-6	111.8	85	178	-6.5	627.1	22	0	-23.8	1281.0	-23.4	-5	28.3
48TH	137.01	-7	111.3	87	178	-8.2	624.4	22	0	-23.1	1169.7	-19.8	-5	25.9
49TH	140.01	-9	110.8	89	178	-9.9	621.6	22	0	-22.2	1058.9	-16.4	-4	23.5
50TH	143.01	-1.1	109.9	92	178	-12.0	616.5	22	0	-21.1	948.9	-13.4	-3	21.1
51ST	149.01	-2.9	213.7	190	357	-15.2	599.3	22	0	-18.2	735.3	-8.4	-2	16.4
TOP	171.76	-18.2	735.3	800	1351	-22.7	544.2	22	1	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS I
WIND DIRECTION 100

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-335.9	6074.8	-522.3	-29.2	126.2
5TH	8.00	-8.3	253.2	152	475	-54.9	532.6	21	1	-327.5	5821.6	-474.7	-26.6	120.9
6TH	11.00	-3.8	97.2	57	178	-66.0	545.1	21	1	-323.8	5724.4	-457.4	-25.6	118.8
7TH	14.00	-4.1	98.4	57	178	-72.1	551.9	21	1	-319.7	5626.0	-440.4	-24.6	116.7
8TH	17.00	-4.5	99.6	57	178	-78.2	558.7	21	1	-315.2	5526.5	-423.7	-23.7	114.7
9TH	20.00	-4.8	100.8	57	178	-84.2	565.5	21	1	-310.4	5425.6	-407.2	-22.7	112.6
10TH	23.00	-5.1	102.0	57	178	-90.3	572.3	21	1	-305.3	5323.6	-391.1	-21.8	110.4
11TH	26.00	-5.5	103.2	57	178	-96.4	579.1	21	1	-299.8	5220.4	-375.3	-20.9	108.3
12TH	29.00	-5.8	104.4	57	178	-102.4	585.9	21	1	-293.9	5115.9	-359.8	-20.0	106.1
13TH	32.00	-6.0	105.3	57	178	-104.8	590.6	21	1	-288.0	5010.6	-344.6	-19.1	103.9
14TH	35.00	-6.1	105.8	57	178	-106.5	593.5	21	1	-281.9	4904.8	-329.7	-18.3	101.8
15TH	38.00	-6.2	106.3	57	178	-108.3	596.4	21	1	-275.7	4798.5	-315.2	-17.4	99.6
16TH	41.00	-6.3	106.8	57	178	-110.0	599.3	21	1	-269.4	4691.7	-300.9	-16.6	97.3
17TH	44.00	-6.4	107.4	57	178	-111.8	602.2	21	1	-263.1	4584.3	-287.0	-15.8	95.1
18TH	47.00	-6.5	107.9	57	178	-113.5	605.1	21	1	-256.6	4476.4	-273.4	-15.0	92.9
19TH	50.00	-6.6	108.4	57	178	-115.3	608.0	21	1	-250.0	4368.0	-260.2	-14.3	90.6
20TH	53.00	-6.7	108.9	57	178	-117.0	610.8	21	1	-243.4	4259.1	-247.2	-13.5	88.4
21ST	56.00	-6.7	109.4	57	178	-118.0	613.6	21	1	-236.6	4149.7	-234.6	-12.8	86.1
22ND	59.00	-6.7	109.5	57	178	-117.6	614.1	21	1	-229.9	4040.3	-222.3	-12.1	83.8
23RD	62.00	-6.7	109.6	57	178	-117.2	614.6	21	1	-223.3	3930.7	-210.4	-11.4	81.5
24TH	65.00	-6.7	109.7	57	178	-116.8	615.1	21	1	-216.6	3821.0	-198.7	-10.8	79.3
25TH	68.00	-6.6	109.7	57	178	-116.4	615.5	21	1	-210.0	3711.3	-187.4	-10.1	77.0
26TH	71.00	-6.6	109.8	57	178	-116.0	616.0	21	1	-203.4	3601.5	-176.5	-9.5	74.7
27TH	74.00	-6.6	109.9	57	178	-115.6	616.5	21	1	-196.8	3491.6	-165.8	-8.9	72.4
28TH	77.00	-6.6	110.0	57	178	-115.2	617.0	21	1	-190.2	3381.6	-155.5	-8.3	70.1
		-6.5	110.1	57	178	-114.8	617.5	21	1					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 100

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-6.5	110.3	57	178	-113.2	618.8	21	1	-183.7	3271.5	-145.5	-7.8	67.9
30TH	83.00	-6.4	110.7	57	178	-111.5	620.7	21	1	-177.2	3161.2	-135.9	-7.2	65.6
31ST	86.00	-6.3	111.0	57	178	-109.8	622.6	21	1	-170.8	3050.5	-126.6	-6.7	63.3
32ND	89.00	-6.2	111.3	57	178	-108.0	624.5	21	1	-164.6	2939.5	-117.6	-6.2	60.9
33RD	92.00	-6.1	111.7	57	178	-106.3	626.4	21	1	-158.4	2828.2	-108.9	-5.7	58.6
34TH	95.00	-6.1	112.0	58	178	-104.8	628.3	21	1	-152.4	2716.5	-100.6	-5.3	56.3
35TH	98.00	-6.3	112.4	61	178	-103.5	630.2	21	1	-146.3	2604.5	-92.6	-4.8	53.9
36TH	101.00	-6.5	112.4	63	178	-102.8	630.6	21	1	-140.0	2492.1	-85.0	-4.4	51.6
37TH	104.00	-6.6	112.4	65	178	-102.3	630.6	21	1	-133.5	2379.7	-77.7	-4.0	49.2
38TH	107.00	-6.8	112.4	67	178	-101.8	630.6	21	1	-126.9	2267.3	-70.7	-3.6	46.9
39TH	110.01	-7.0	112.4	69	178	-101.4	630.6	21	1	-120.1	2154.8	-64.1	-3.2	44.6
40TH	113.01	-7.2	112.4	72	178	-101.0	630.6	21	1	-113.0	2042.4	-57.8	-2.9	42.2
41ST	116.01	-7.4	112.4	74	178	-100.7	630.6	21	1	-105.8	1930.0	-51.8	-2.5	39.9
42ND	119.01	-7.6	112.4	76	178	-99.7	630.5	21	1	-98.4	1817.6	-46.2	-2.2	37.6
43RD	122.01	-7.6	111.8	78	178	-97.3	627.1	20	1	-90.8	1705.2	-40.9	-2.0	35.3
44TH	125.01	-7.5	111.2	81	178	-93.5	623.7	20	1	-83.2	1593.4	-36.0	-1.7	33.0
45TH	128.01	-7.4	110.6	83	178	-88.9	620.3	20	1	-75.6	1482.2	-31.4	-1.5	30.7
46TH	131.01	-7.1	110.0	85	178	-83.3	616.9	20	1	-68.3	1371.6	-27.1	-1.2	28.4
47TH	134.01	-6.7	109.4	87	178	-76.9	613.5	20	1	-61.2	1261.6	-23.1	-1.0	26.2
48TH	137.01	-6.2	108.8	89	178	-69.8	610.0	20	1	-54.5	1152.2	-19.5	-.9	23.9
49TH	140.01	-5.9	107.8	92	178	-64.0	604.7	20	1	-48.3	1043.5	-16.2	-.7	21.7
50TH	143.01	-10.9	209.9	190	357	-57.6	588.6	21	1	-42.4	935.7	-13.2	-.6	19.5
51ST	149.01	-31.5	725.8	800	1351	-39.3	537.2	21	1	-31.5	725.8	-8.3	-.4	15.1
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS I
WIND DIRECTION 110

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-590.8	5702.4	-488.4	-53.7	112.3
5TH	8.00	-4.9	232.6	152	475	-32.1	489.3	20	0	-586.0	5469.8	-443.7	-49.0	107.5
6TH	11.00	-3.3	89.7	57	178	-57.1	502.9	20	1	-582.7	5380.1	-427.5	-47.3	105.7
7TH	14.00	-4.0	91.0	57	178	-70.7	510.3	20	1	-578.7	5289.1	-411.5	-45.5	103.9
8TH	17.00	-4.8	92.3	57	178	-84.3	517.7	20	1	-573.9	5196.8	-395.7	-43.8	102.0
9TH	20.00	-5.6	93.6	57	178	-97.9	525.2	20	1	-568.3	5103.2	-380.3	-42.1	100.1
10TH	23.00	-6.4	94.9	57	178	-111.6	532.6	20	1	-561.9	5008.3	-365.1	-40.4	98.2
11TH	26.00	-7.1	96.3	57	178	-125.2	540.0	20	1	-554.8	4912.0	-350.2	-38.7	96.3
12TH	29.00	-7.9	97.6	57	178	-138.8	547.4	20	2	-546.9	4814.4	-335.6	-37.1	94.3
13TH	32.00	-8.5	98.6	57	178	-148.5	553.3	20	2	-538.4	4715.8	-321.3	-35.4	92.3
14TH	35.00	-9.0	99.4	57	178	-157.5	557.7	20	2	-529.4	4616.3	-307.3	-33.8	90.4
15TH	38.00	-9.5	100.2	57	178	-166.5	562.1	20	2	-519.9	4516.1	-293.6	-32.3	88.3
16TH	41.00	-10.0	101.0	57	178	-175.5	566.5	20	2	-509.9	4415.1	-280.2	-30.7	86.3
17TH	44.00	-10.5	101.8	57	178	-184.5	570.9	20	2	-499.4	4313.3	-267.1	-29.2	84.3
18TH	47.00	-11.0	102.6	57	178	-193.5	575.3	20	2	-488.4	4210.8	-254.4	-27.7	82.2
19TH	50.00	-11.5	103.4	57	178	-202.5	579.7	20	2	-476.9	4107.4	-241.9	-26.3	80.2
20TH	53.00	-12.1	104.1	57	178	-211.5	584.1	20	2	-464.8	4003.3	-229.7	-24.9	78.1
21ST	56.00	-12.4	104.9	57	178	-217.4	588.4	20	2	-452.4	3898.4	-217.9	-23.5	76.0
22ND	59.00	-12.4	105.1	57	178	-218.2	589.6	20	2	-440.0	3793.3	-206.3	-22.1	73.9
23RD	59.00	-12.5	105.3	57	178	-219.0	590.9	20	2	-427.5	3687.9	-195.1	-20.8	71.8
24TH	62.00	-12.5	105.6	57	178	-219.8	592.1	20	2	-415.0	3582.4	-184.2	-19.6	69.7
25TH	65.00	-12.6	105.8	57	178	-220.6	593.4	20	2	-402.4	3476.6	-173.6	-18.4	67.6
26TH	68.00	-12.6	106.0	57	178	-221.4	594.6	20	2	-389.8	3370.6	-163.3	-17.2	65.5
27TH	71.00	-12.7	106.2	57	178	-222.2	595.8	20	2	-377.1	3264.4	-153.4	-16.0	63.4
28TH	74.00	-12.7	106.4	57	178	-223.1	597.1	20	2	-364.4	3157.9	-143.8	-14.9	61.3
	77.00	-12.8	106.7	57	178	-223.9	598.3	20	2					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 110 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-12.7	106.7	57	178	-222.9	598.4	20	2	-351.6	3051.2	-134.4	-13.8	59.2
30TH	83.00	-12.6	106.6	57	178	-221.7	597.8	20	2	-338.9	2944.5	-125.4	-12.8	57.0
31ST	86.00	-12.6	106.5	57	178	-220.5	597.1	20	2	-326.3	2838.0	-116.8	-11.8	54.9
32ND	89.00	-12.5	106.3	57	178	-219.4	596.4	20	2	-313.7	2731.5	-108.4	-10.8	52.8
33RD	92.00	-12.4	106.2	57	178	-218.2	595.8	20	2	-301.2	2625.2	-100.4	-9.9	50.7
34TH	95.00	-12.7	106.1	58	178	-217.9	595.1	19	2	-288.8	2519.0	-92.7	-9.0	48.6
35TH	98.00	-13.2	106.0	61	178	-218.0	594.4	19	2	-276.1	2412.9	-85.3	-8.2	46.5
36TH	101.00	-13.7	105.8	63	178	-218.0	593.6	19	3	-262.9	2306.9	-78.2	-7.4	44.4
37TH	104.00	-14.2	105.7	65	178	-218.1	592.7	19	3	-249.2	2201.1	-71.4	-6.6	42.3
38TH	107.00	-14.7	105.5	67	178	-218.2	591.9	19	3	-235.0	2095.4	-65.0	-5.9	40.3
39TH	110.01	-15.2	105.4	69	178	-218.4	591.0	19	3	-220.4	1989.9	-58.8	-5.2	38.2
40TH	113.01	-15.7	105.2	72	178	-218.6	590.2	19	3	-205.2	1884.5	-53.0	-4.6	36.2
41ST	116.01	-16.2	105.1	74	178	-218.9	589.3	19	3	-189.6	1779.3	-47.5	-4.0	34.1
42ND	119.01	-16.5	104.9	76	178	-216.6	588.3	19	3	-173.4	1674.2	-42.4	-3.4	32.1
43RD	122.01	-16.3	104.2	78	178	-208.7	584.3	19	3	-156.9	1569.4	-37.5	-2.9	30.1
44TH	125.01	-15.9	103.4	81	178	-197.7	580.2	19	3	-140.6	1465.2	-32.9	-2.5	28.1
45TH	128.01	-15.3	102.7	83	178	-185.0	576.1	19	3	-124.7	1361.8	-28.7	-2.1	26.1
46TH	131.01	-14.4	102.0	85	178	-170.0	572.0	19	3	-109.3	1259.0	-24.8	-1.7	24.2
47TH	134.01	-13.4	101.3	87	178	-153.2	567.9	19	2	-94.9	1157.1	-21.1	-1.4	22.2
48TH	137.01	-12.0	100.5	89	178	-134.6	563.9	19	2	-81.5	1055.8	-17.8	-1.2	20.3
49TH	140.01	-10.9	99.5	92	178	-119.3	558.0	19	2	-69.5	955.3	-14.8	-.9	18.4
50TH	143.01	-19.2	193.2	190	357	-101.2	541.9	19	2	-58.6	855.8	-12.1	-.7	16.5
51ST	149.01	-39.4	662.6	800	1351	-49.2	490.4	19	2	-39.4	662.6	-7.5	-.4	12.8
TOP	171.76								1	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 120°

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-288.4	5526.6	-472.0	-24.1	102.9
5TH	8.00	12.2	221.4	152	475	80.2	465.7	20	-1	-300.6	5305.2	-428.7	-21.8	98.5
6TH	11.00	2.5	85.5	57	178	44.4	479.5	20	-1	-303.1	5219.7	-412.9	-20.9	96.8
7TH	14.00	1.4	86.8	57	178	24.9	487.0	20	-0	-304.5	5132.9	-397.4	-20.0	95.1
8TH	17.00	.3	88.2	57	178	5.3	494.5	20	-0	-304.8	5044.7	-382.1	-19.1	93.3
9TH	20.00	-0.8	89.5	57	178	-14.2	501.9	19	0	-304.0	4955.3	-367.1	-18.1	91.6
10TH	23.00	-1.9	90.8	57	178	-33.7	509.4	19	0	-302.1	4864.4	-352.4	-17.2	89.8
11TH	26.00	-3.0	92.2	57	178	-53.3	516.9	19	1	-299.1	4772.3	-337.9	-16.3	88.1
12TH	29.00	-4.2	93.5	57	178	-72.8	524.4	19	1	-294.9	4678.8	-323.7	-15.4	86.3
13TH	32.00	-4.8	94.7	57	178	-84.5	531.3	19	1	-290.1	4584.1	-309.8	-14.6	84.4
14TH	35.00	-5.4	95.8	57	178	-94.8	537.5	19	1	-284.7	4488.2	-296.2	-13.7	82.6
15TH	38.00	-6.0	96.9	57	178	-105.1	543.7	19	1	-278.7	4391.3	-282.9	-12.9	80.8
16TH	41.00	-6.6	98.0	57	178	-115.4	549.9	19	1	-272.1	4293.3	-269.9	-12.0	78.9
17TH	44.00	-7.2	99.1	57	178	-125.7	556.1	19	1	-265.0	4194.1	-257.1	-11.2	77.0
18TH	47.00	-7.7	100.3	57	178	-136.0	562.3	19	1	-257.2	4093.9	-244.7	-10.4	75.0
19TH	50.00	-8.3	101.4	57	178	-146.3	568.6	19	2	-248.9	3992.5	-232.6	-9.7	73.1
20TH	53.00	-8.9	102.5	57	178	-156.6	574.8	19	2	-240.0	3890.0	-220.8	-9.0	71.1
21ST	56.00	-9.2	103.5	57	178	-162.2	580.8	19	2	-230.7	3786.5	-209.2	-8.2	69.2
22ND	59.00	-9.1	103.9	57	178	-160.5	583.0	19	2	-221.6	3682.6	-198.0	-7.6	67.2
23RD	59.00	-9.1	104.3	57	178	-158.8	585.1	19	2	-212.5	3578.2	-187.1	-6.9	65.2
24TH	62.00	-9.0	104.7	57	178	-157.1	587.3	19	2	-203.5	3473.5	-176.6	-6.3	63.2
25TH	65.00	-8.9	105.1	57	178	-155.4	589.5	19	2	-194.7	3368.4	-166.3	-5.7	61.2
26TH	68.00	-8.8	105.5	57	178	-153.7	591.7	19	2	-185.9	3263.0	-156.3	-5.1	59.2
27TH	71.00	-8.7	105.9	57	178	-152.0	593.8	19	2	-177.3	3157.1	-146.7	-4.6	57.2
28TH	74.00	-8.6	106.3	57	178	-150.3	596.0	19	2	-168.7	3050.8	-137.4	-4.1	55.2
	77.00	-8.5	106.6	57	178	-148.6	598.2	19	1					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 120

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									-160.2	2944.2	-128.4	-3.6	53.2
30TH	83.00	-8.6	106.5	57	178	-150.1	597.6	19	1	-151.7	2837.7	-119.7	-3.1	51.2
31ST	86.00	-8.7	106.1	57	178	-151.9	594.9	19	2	-143.0	2731.6	-111.4	-2.7	49.2
32ND	89.00	-8.8	105.6	57	178	-153.7	592.3	19	2	-134.2	2626.0	-103.3	-2.2	47.2
33RD	92.00	-8.9	105.1	57	178	-155.5	589.7	19	2	-125.4	2520.9	-95.6	-1.9	45.3
34TH	95.00	-9.0	104.7	57	178	-157.3	587.0	19	2	-116.4	2416.2	-88.2	-1.5	43.3
35TH	98.00	-9.2	104.2	58	178	-158.6	584.4	19	2	-107.2	2312.0	-81.1	-1.2	41.3
36TH	101.00	-9.6	103.7	61	178	-158.9	581.8	19	2	-97.5	2208.3	-74.3	-.8	39.4
37TH	104.00	-9.7	103.4	63	178	-155.1	579.7	18	2	-87.8	2104.9	-67.9	-.6	37.5
38TH	107.00	-9.8	103.0	65	178	-151.4	577.8	18	2	-78.0	2001.9	-61.7	-.3	35.6
39TH	110.01	-9.9	102.7	67	178	-147.8	575.9	18	2	-68.0	1899.3	-55.9	-.1	33.7
40TH	113.01	-10.0	102.3	69	178	-144.2	574.0	18	2	-58.0	1796.9	-50.3	.1	31.8
41ST	116.01	-10.1	102.0	72	178	-140.6	572.0	18	2	-48.0	1695.0	-45.1	.2	30.0
42ND	119.01	-10.1	101.6	74	178	-137.0	570.1	18	2	-37.9	1593.3	-40.2	.4	28.1
43RD	122.01	-10.1	101.3	76	178	-132.1	568.1	18	2	-27.8	1492.0	-35.5	.5	26.3
44TH	125.01	-9.7	100.3	78	178	-124.2	562.8	18	2	-18.1	1391.7	-31.2	.5	24.5
45TH	128.01	-9.2	99.4	81	178	-113.7	557.5	18	2	-8.9	1292.3	-27.2	.6	22.7
46TH	131.01	-8.4	98.5	83	178	-102.0	552.2	18	2	-.5	1193.9	-23.4	.6	21.0
47TH	134.01	-7.5	97.5	85	178	-88.4	546.9	18	1	7.0	1096.4	-20.0	.6	19.2
48TH	137.01	-6.4	96.6	87	178	-73.4	541.7	18	1	13.4	999.8	-16.9	.6	17.5
49TH	140.01	-5.1	95.6	89	178	-56.9	536.4	18	1	18.5	904.2	-14.0	.5	15.8
50TH	143.01	-3.8	94.4	92	178	-41.8	529.7	18	1	22.3	809.7	-11.4	.4	14.2
51ST	149.01	-4.1	183.3	190	357	-21.8	514.0	18	0	26.5	626.5	-7.1	.3	10.9
TOP	171.76	26.5	626.5	800	1351	33.1	463.6	17	-1	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 130

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									48.6	5093.9	-434.4	8.8	88.9
5TH	8.00	23.6	202.9	152	475	155.0	426.8	18	-2	25.2	4891.0	-394.4	8.5	85.2
6TH	11.00	6.8	78.4	57	178	119.0	440.0	18	-2	18.4	4812.6	-379.9	8.5	83.8
7TH	14.00	5.7	79.7	57	178	99.3	447.1	18	-1	12.8	4732.8	-365.5	8.4	82.3
8TH	17.00	4.5	81.0	57	178	79.6	454.3	18	-1	8.3	4651.9	-351.5	8.4	80.9
9TH	20.00	3.4	82.3	57	178	59.9	461.5	18	-1	4.8	4569.6	-337.6	8.4	79.4
10TH	23.00	2.3	83.5	57	178	40.2	468.6	18	-0	2.5	4486.0	-324.0	8.4	77.9
11TH	26.00	1.2	84.8	57	178	20.5	475.8	18	-0	1.4	4401.2	-310.7	8.4	76.4
12TH	29.00	.0	86.1	57	178	.8	483.0	18	-0	1.3	4315.1	-297.6	8.4	74.8
13TH	32.00	-1.1	87.3	57	178	-10.3	489.5	18	0	1.9	4227.8	-284.8	8.4	73.3
14TH	35.00	-1.7	88.3	57	178	-19.9	495.6	18	0	3.0	4139.5	-272.3	8.3	71.7
15TH	38.00	-1.7	89.4	57	178	-29.5	501.6	18	0	4.7	4050.1	-260.0	8.3	70.1
16TH	41.00	-2.2	90.5	57	178	-39.2	507.6	18	0	7.0	3959.6	-248.0	8.3	68.4
17TH	44.00	-2.8	91.6	57	178	-48.8	513.6	18	1	9.7	3868.0	-236.2	8.3	66.8
18TH	47.00	-3.3	92.6	57	178	-58.4	519.6	18	1	13.1	3775.4	-224.8	8.3	65.1
19TH	50.00	-3.9	93.7	57	178	-68.0	525.7	18	1	16.9	3681.7	-213.6	8.2	63.4
20TH	53.00	-4.4	94.8	57	178	-77.7	531.7	18	1	21.4	3586.9	-202.7	8.2	61.7
21ST	56.00	-4.7	95.8	57	178	-82.2	537.5	18	1	26.1	3491.1	-192.1	8.1	60.0
22ND	59.00	-4.5	96.1	57	178	-78.8	538.9	18	1	30.6	3395.0	-181.7	8.0	58.2
23RD	62.00	-4.3	96.3	57	178	-75.4	540.4	18	1	34.9	3298.6	-171.7	7.9	56.5
24TH	65.00	-4.1	96.6	57	178	-72.0	541.8	18	1	39.0	3202.0	-161.9	7.8	54.8
25TH	68.00	-3.9	96.9	57	178	-68.6	543.3	18	1	42.9	3105.2	-152.5	7.7	53.0
26TH	71.00	-3.7	97.1	57	178	-65.2	544.7	18	1	46.6	3008.1	-143.3	7.5	51.3
27TH	74.00	-3.5	97.4	57	178	-61.8	546.2	18	1	50.1	2910.7	-134.4	7.4	49.5
28TH	77.00	-3.3	97.6	57	178	-58.4	547.6	18	1	53.5	2813.1	-125.8	7.2	47.8
		-3.1	97.9	57	178	-55.0	549.1	18	1					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1 RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
 WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-3.3	98.0	57	178	-57.8	549.5	18	1	56.6	2715.2	-117.5	7.1	46.0
30TH	83.00	-3.5	97.9	57	178	-61.1	549.3	18	1	59.9	2617.2	-109.5	6.9	44.3
31ST	86.00	-3.7	97.9	57	178	-64.4	549.1	18	1	63.4	2519.3	-101.8	6.7	42.5
32ND	89.00	-3.9	97.9	57	178	-67.7	548.9	18	1	67.0	2421.4	-94.4	6.5	40.8
33RD	92.00	-4.0	97.8	57	178	-71.0	548.7	18	1	70.9	2323.5	-87.3	6.3	39.0
34TH	95.00	-4.1	97.8	58	178	-70.9	548.4	18	1	74.9	2225.7	-80.5	6.1	37.3
35TH	98.00	-4.1	97.7	61	178	-67.7	548.2	18	1	79.1	2128.0	-74.0	5.9	35.6
36TH	101.00	-3.8	97.3	63	178	-60.4	546.0	18	1	83.2	2030.2	-67.7	5.6	33.8
37TH	104.00	-3.5	96.8	65	178	-53.5	543.2	18	1	87.0	1932.9	-61.8	5.4	32.1
38TH	107.00	-3.2	96.4	67	178	-47.1	540.5	18	1	90.4	1836.0	-56.1	5.1	30.4
39TH	110.01	-2.9	95.9	69	178	-41.1	537.8	18	1	93.6	1739.7	-50.8	4.8	28.7
40TH	113.01	-2.5	95.4	72	178	-35.4	535.0	17	0	96.4	1643.8	-45.7	4.5	27.1
41ST	116.01	-2.2	94.9	74	178	-30.1	532.3	17	0	99.0	1548.4	-40.9	4.2	25.4
42ND	119.01	-1.8	94.4	76	178	-24.1	529.4	17	0	101.2	1453.5	-36.4	3.9	23.7
43RD	122.01	-1.3	93.2	78	178	-16.3	522.8	17	0	103.0	1359.1	-32.2	3.6	22.1
44TH	125.01	-1.6	92.0	81	178	-7.4	516.2	17	0	104.3	1265.9	-28.2	3.3	20.5
45TH	128.01	.2	90.8	83	178	1.8	509.6	17	-0	104.9	1173.9	-24.6	3.0	18.9
46TH	131.01	1.0	89.7	85	178	11.8	503.0	17	-0	104.8	1083.0	-21.2	2.7	17.4
47TH	134.01	1.9	88.5	87	178	22.4	496.4	17	-0	103.8	993.4	-18.1	2.4	15.8
48TH	137.01	3.0	87.3	89	178	33.4	489.7	17	-1	101.8	904.9	-15.2	2.1	14.4
49TH	140.01	4.1	86.0	92	178	44.5	482.2	17	-1	98.8	817.6	-12.6	1.8	12.9
50TH	143.01	11.5	166.5	190	357	60.3	466.9	16	-1	94.7	731.6	-10.3	1.5	11.5
51ST	149.01	83.3	565.1	800	1351	104.1	418.2	15	-2	83.3	565.1	-6.4	.9	8.8
TGP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 140

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	33.3	165.7	152	475	218.9	348.6	16	-3	543.2	4378.1	-367.7	58.2	71.3
5TH	8.00	10.5	65.6	57	178	184.5	368.2	17	-3	509.9	4212.4	-333.4	54.0	68.5
6TH	11.00	9.4	67.5	57	178	165.7	378.9	17	-2	499.4	4146.8	-320.8	52.5	67.4
7TH	14.00	8.4	69.4	57	178	146.9	389.5	17	-2	489.9	4079.2	-308.5	51.0	66.3
8TH	17.00	7.3	71.4	57	178	128.1	400.2	17	-2	481.6	4009.8	-296.3	49.5	65.1
9TH	20.00	6.2	73.3	57	178	109.3	410.9	17	-1	474.3	3938.4	-284.4	48.1	63.9
10TH	23.00	5.2	75.2	57	178	90.5	421.6	17	-1	468.0	3865.2	-272.7	46.7	62.6
11TH	26.00	4.1	77.1	57	178	71.7	432.3	17	-1	462.9	3790.0	-261.2	45.3	61.4
12TH	29.00	3.9	78.6	57	178	68.3	440.6	17	-1	458.8	3712.9	-250.0	43.9	60.1
13TH	32.00	3.8	79.6	57	178	67.5	446.6	17	-1	454.9	3634.4	-239.0	42.5	58.7
14TH	35.00	3.8	80.7	57	178	66.8	452.7	17	-1	451.1	3554.8	-228.2	41.2	57.4
15TH	38.00	3.8	81.8	57	178	66.0	458.7	17	-1	447.3	3474.1	-217.6	39.8	56.0
16TH	41.00	3.7	82.9	57	178	65.2	464.8	17	-1	443.5	3392.3	-207.3	38.5	54.6
17TH	44.00	3.7	83.9	57	178	64.5	470.8	17	-1	439.8	3309.4	-197.3	37.2	53.2
18TH	47.00	3.6	85.0	57	178	63.7	476.9	17	-1	436.1	3225.5	-187.5	35.9	51.7
19TH	50.00	3.6	86.1	57	178	62.9	482.9	17	-1	432.5	3140.5	-177.9	34.6	50.3
20TH	53.00	3.7	87.1	57	178	64.6	488.6	17	-1	428.9	3054.4	-168.6	33.3	48.8
21ST	56.00	4.0	87.0	57	178	70.1	488.1	17	-1	425.2	2967.3	-159.6	32.0	47.3
22ND	59.00	4.3	86.9	57	178	75.6	487.5	17	-1	421.2	2880.2	-150.8	30.7	45.8
23RD	62.00	4.6	86.8	57	178	81.1	487.0	17	-1	416.9	2793.3	-142.3	29.5	44.3
24TH	65.00	4.9	86.7	57	178	86.7	486.4	17	-1	412.3	2706.5	-134.1	28.2	42.8
25TH	68.00	5.3	86.6	57	178	92.2	485.9	17	-1	407.3	2619.8	-126.1	27.0	41.3
26TH	71.00	5.6	86.5	57	178	97.7	485.3	17	-1	402.1	2533.2	-118.3	25.8	39.8
27TH	74.00	5.9	86.4	57	178	103.2	484.8	17	-1	396.5	2446.6	-110.9	24.6	38.4
28TH	77.00	6.2	86.3	57	178	108.7	484.2	17	-1	390.6	2360.2	-103.7	23.4	36.9

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 140

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	6.0	86.1	57	178	105.1	483.0	17	-1	384.4	2273.9	-96.7	22.2	35.4
30TH	83.00	5.7	85.8	57	178	100.7	481.4	17	-1	378.4	2187.8	-90.0	21.1	33.9
31ST	86.00	5.5	85.5	57	178	96.3	479.7	17	-1	372.7	2102.0	-83.6	20.0	32.5
32ND	89.00	5.2	85.2	57	178	91.9	478.1	17	-1	367.2	2016.4	-77.4	18.8	31.0
33RD	92.00	5.0	84.9	57	178	87.6	476.5	17	-1	362.0	1931.2	-71.5	17.8	29.6
34TH	95.00	5.1	84.6	58	178	88.3	474.8	17	-1	357.0	1846.3	-65.8	16.7	28.1
35TH	98.00	5.6	84.4	61	178	93.3	473.2	17	-1	351.8	1761.6	-60.4	15.6	26.7
36TH	101.00	6.4	83.7	63	178	102.6	469.3	17	-1	346.2	1677.3	-55.3	14.6	25.3
37TH	104.00	7.2	82.9	65	178	111.3	464.9	17	-1	339.7	1593.6	-50.3	13.5	23.9
38TH	107.00	8.0	82.1	67	178	119.6	460.5	17	-2	332.5	1510.7	-45.7	12.5	22.5
39TH	110.01	8.8	81.3	69	178	127.4	456.1	16	-2	324.5	1428.6	-41.3	11.5	21.1
40TH	113.01	9.7	80.5	72	178	134.9	451.7	16	-2	315.6	1347.3	-37.1	10.6	19.7
41ST	116.01	10.5	79.7	74	178	142.1	447.2	16	-2	306.0	1266.8	-33.2	9.6	18.4
42ND	119.01	11.3	78.9	76	178	148.1	442.7	16	-2	295.5	1187.1	-29.5	8.7	17.1
43RD	122.01	11.9	77.7	78	178	152.0	435.6	16	-2	284.2	1108.1	-26.1	7.9	15.8
44TH	125.01	12.5	76.4	81	178	154.7	428.4	16	-3	272.3	1030.5	-22.9	7.0	14.5
45TH	128.01	13.0	75.1	83	178	156.7	421.3	15	-3	259.9	954.1	-19.9	6.2	13.3
46TH	131.01	13.4	73.8	85	178	157.7	414.1	15	-3	246.9	879.0	-17.1	5.5	12.1
47TH	134.01	13.8	72.6	87	178	158.0	407.0	15	-3	233.5	805.2	-14.6	4.8	11.0
48TH	137.01	14.1	71.3	89	178	157.6	399.8	14	-3	219.7	732.6	-12.3	4.1	9.8
49TH	140.01	14.8	69.9	92	178	161.5	392.3	14	-3	205.6	661.3	-10.2	3.4	8.8
50TH	143.01	32.6	135.2	190	357	171.8	379.2	14	-3	190.8	591.4	-8.3	2.8	7.7
51ST	149.01	158.2	456.2	800	1351	197.7	337.6	11	-4	158.2	456.2	-5.2	1.8	5.8
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 150

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									1058.2	3273.4	-268.7	109.8	50.1
5TH	8.00	31.3	114.2	152	475	205.9	240.2	14	-4	1026.9	3159.2	-243.0	101.5	48.3
6TH	11.00	11.2	47.0	57	178	196.7	263.7	14	-3	1015.7	3112.2	-233.6	98.4	47.6
7TH	14.00	10.9	49.3	57	178	191.7	276.6	14	-3	1004.8	3062.9	-224.3	95.4	46.9
8TH	17.00	10.6	51.6	57	178	186.6	289.4	14	-3	994.2	3011.3	-215.2	92.4	46.1
9TH	20.00	10.4	53.9	57	178	181.6	302.2	14	-3	983.8	2957.4	-206.2	89.4	45.3
10TH	23.00	10.1	56.2	57	178	176.6	315.0	14	-3	973.8	2901.2	-197.4	86.5	44.5
11TH	26.00	9.8	58.5	57	178	171.6	327.9	14	-2	964.0	2842.8	-188.8	83.6	43.6
12TH	29.00	9.5	60.7	57	178	166.5	340.7	14	-2	954.5	2782.1	-180.4	80.7	42.7
13TH	32.00	9.8	62.4	57	178	172.0	349.9	14	-2	944.7	2719.7	-172.1	77.9	41.8
14TH	35.00	10.2	63.4	57	178	179.3	355.8	15	-2	934.5	2656.2	-164.1	75.0	40.9
15TH	38.00	10.6	64.5	57	178	186.6	361.7	15	-2	923.8	2591.8	-156.2	72.3	39.9
16TH	41.00	11.1	65.5	57	178	194.0	367.5	15	-3	912.8	2526.2	-148.5	69.5	38.8
17TH	44.00	11.5	66.6	57	178	201.3	373.4	16	-3	901.3	2459.7	-141.0	66.8	37.8
18TH	47.00	11.9	67.6	57	178	208.6	379.3	16	-3	889.4	2392.0	-133.8	64.1	36.7
19TH	50.00	12.3	68.7	57	178	215.9	385.2	16	-3	877.1	2323.4	-126.7	61.4	35.5
20TH	53.00	12.7	69.7	57	178	223.2	391.0	16	-3	864.4	2253.7	-119.8	58.8	34.3
21ST	56.00	13.1	70.7	57	178	230.7	396.5	17	-3	851.2	2183.0	-113.2	56.3	33.1
22ND	59.00	13.6	70.3	57	178	238.5	394.5	17	-3	837.6	2112.6	-106.7	53.7	31.9
23RD	62.00	14.0	70.0	57	178	246.3	392.5	17	-3	823.6	2042.6	-100.5	51.2	30.7
24TH	65.00	14.5	69.6	57	178	254.0	390.5	17	-3	809.1	1973.0	-94.5	48.8	29.5
25TH	68.00	14.9	69.3	57	178	261.8	388.5	16	-4	794.2	1903.8	-89.7	46.4	28.3
26TH	71.00	15.4	68.9	57	178	269.6	386.5	16	-4	778.8	1834.8	-83.1	44.0	27.1
27TH	74.00	15.8	68.6	57	178	277.4	384.6	16	-4	763.0	1766.3	-77.6	41.7	25.9
28TH	77.00	16.3	68.2	57	178	285.2	382.6	16	-4	746.8	1698.1	-72.5	39.4	24.8
		16.7	67.8	57	178	293.0	380.6	16	-4					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
 WIND DIRECTION 150 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		GUST FACTOR 1.00 MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	16.7	67.3	57	178	292.8	377.6	16	-4	730.1	1630.2	-67.5	37.2	23.6
30TH	83.00	16.6	66.7	57	178	291.9	374.0	16	-4	713.4	1562.9	-62.7	35.1	22.4
31ST	86.00	16.6	66.0	57	178	291.0	370.4	16	-4	696.7	1496.2	-58.1	32.9	21.3
32ND	89.00	16.5	65.4	57	178	290.1	366.8	16	-4	680.2	1430.2	-53.7	30.9	20.2
33RD	92.00	16.5	64.7	57	178	289.2	363.1	16	-4	663.6	1364.8	-49.5	28.9	19.0
34TH	95.00	17.0	64.1	58	178	291.5	359.5	16	-4	647.1	1300.1	-45.5	26.9	18.0
35TH	98.00	17.9	63.4	61	178	296.1	355.9	15	-4	630.1	1236.0	-41.7	25.0	16.9
36TH	101.00	18.9	62.4	63	178	301.2	350.2	15	-5	612.2	1172.5	-38.1	23.1	15.8
37TH	104.00	19.9	61.3	65	178	306.0	344.1	15	-5	593.3	1110.1	-34.7	21.3	14.8
38TH	107.00	20.9	60.2	67	178	310.7	337.9	15	-5	573.4	1048.8	-31.4	19.6	13.8
39TH	110.01	21.9	59.1	69	178	315.2	331.7	14	-5	552.6	988.5	-28.4	17.9	12.8
40TH	113.01	22.9	58.0	72	178	319.5	325.6	14	-5	530.7	929.4	-25.5	16.2	11.8
41ST	116.01	23.9	56.9	74	178	323.7	319.4	14	-6	507.8	871.3	-22.8	14.7	10.9
42ND	119.01	24.8	55.8	76	178	326.1	313.2	13	-6	483.9	814.4	-20.3	13.2	10.0
43RD	122.01	25.4	54.4	78	178	324.5	305.3	13	-6	459.1	758.5	-17.9	11.8	9.1
44TH	125.01	25.8	53.0	81	178	320.5	297.4	12	-6	433.7	704.1	-15.7	10.4	8.3
45TH	128.01	26.1	51.6	83	178	315.3	289.4	12	-6	407.9	651.1	-13.7	9.2	7.5
46TH	131.01	26.2	50.2	85	178	308.1	281.5	11	-6	381.8	599.5	-11.8	8.0	6.7
47TH	134.01	26.1	48.8	87	178	299.6	273.6	11	-6	355.6	549.3	-10.1	6.9	6.0
48TH	137.01	25.9	47.4	89	178	289.7	265.7	10	-5	329.5	500.5	-8.5	5.9	5.4
49TH	140.01	26.1	46.1	92	178	285.0	258.8	9	-5	303.6	453.2	-7.1	4.9	4.7
50TH	143.01	54.0	90.2	190	357	284.2	253.0	9	-5	277.5	407.0	-5.8	4.0	4.2
51ST	149.01	223.5	316.8	800	1351	279.3	234.5	7	-5	223.5	316.8	-3.6	2.5	3.1
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
WIND DIRECTION 160 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		GUST FACTOR 1.00 MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									1275.7	1998.7	-155.9	133.4	33.2
5TH	8.00	21.0	68.8	152	475	138.4	144.7	14	-4	1254.7	1929.9	-140.2	123.2	32.1
6TH	11.00	8.5	29.1	57	178	149.6	163.4	13	-4	1246.2	1900.8	-134.5	119.5	31.7
7TH	14.00	8.9	31.0	57	178	155.7	173.6	13	-4	1237.3	1869.9	-128.8	115.8	31.2
8TH	17.00	9.2	32.8	57	178	161.8	183.8	13	-4	1228.1	1837.1	-123.3	112.1	30.8
9TH	20.00	9.6	34.6	57	178	168.0	194.1	12	-3	1218.5	1802.5	-117.8	108.4	30.3
10TH	23.00	9.9	36.4	57	178	174.1	204.3	12	-3	1208.6	1766.1	-112.4	104.8	29.8
11TH	26.00	10.3	38.2	57	178	180.2	214.5	12	-3	1198.3	1727.8	-107.2	101.1	29.4
12TH	29.00	10.6	40.1	57	178	186.3	224.7	12	-3	1187.7	1687.8	-102.1	97.6	28.9
13TH	32.00	11.4	41.5	57	178	200.2	232.5	12	-3	1176.3	1646.3	-97.1	94.0	28.3
14TH	35.00	12.3	42.4	57	178	215.4	238.0	13	-4	1164.0	1603.9	-92.2	90.5	27.7
15TH	38.00	13.1	43.4	57	178	230.6	243.5	13	-4	1150.9	1560.5	-87.5	87.0	27.1
16TH	41.00	14.0	44.4	57	178	245.7	249.0	14	-4	1136.8	1516.1	-82.8	83.6	26.4
17TH	44.00	14.9	45.4	57	178	260.9	254.5	14	-5	1122.0	1470.7	-78.4	80.2	25.7
18TH	47.00	15.7	46.3	57	178	276.1	260.0	15	-5	1106.2	1424.4	-74.0	76.9	24.9
19TH	50.00	16.6	47.3	57	178	291.3	265.5	15	-5	1089.6	1377.0	-69.8	73.6	24.1
20TH	53.00	17.5	48.3	57	178	306.5	271.0	16	-6	1072.2	1328.7	-65.8	70.3	23.3
21ST	56.00	18.2	49.2	57	178	319.2	276.0	16	-6	1054.0	1279.5	-61.8	67.1	22.3
22ND	59.00	18.7	48.6	57	178	328.0	272.8	16	-6	1035.3	1230.9	-58.1	64.0	21.4
23RD	62.00	19.2	48.1	57	178	336.8	269.7	16	-7	1016.1	1182.8	-54.5	60.9	20.5
24TH	65.00	19.7	47.5	57	178	345.6	266.5	16	-7	996.4	1135.3	-51.0	57.9	19.6
25TH	68.00	20.2	46.9	57	178	354.3	263.3	16	-7	976.2	1088.4	-47.6	55.0	18.7
26TH	71.00	20.7	46.4	57	178	363.1	260.1	16	-7	955.5	1042.0	-44.4	52.1	17.8
27TH	74.00	21.2	45.8	57	178	371.9	256.9	16	-8	934.3	996.2	-41.4	49.2	16.9
28TH	77.00	21.7	45.2	57	178	380.6	253.7	16	-8	912.6	950.9	-38.5	46.5	15.9
		22.2	44.7	57	178	389.4	250.6	16	-8					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 160

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									890.4	906.3	-35.7	43.7	15.0
30TH	83.00	22.3	43.9	57	178	391.2	246.1	16	-8	868.1	862.4	-33.0	41.1	14.1
31ST	86.00	22.4	42.9	57	178	392.4	240.8	16	-9	845.7	819.5	-30.5	38.5	13.2
32ND	89.00	22.4	42.0	57	178	393.6	235.5	16	-9	823.3	777.5	-28.1	36.0	12.4
33RD	92.00	22.5	41.0	57	178	394.8	230.2	16	-9	800.8	736.4	-25.8	33.6	11.5
34TH	95.00	22.6	40.1	57	178	396.0	224.9	16	-9	778.2	696.4	-23.7	31.2	10.7
35TH	98.00	23.1	39.1	58	178	397.0	219.5	16	-9	755.1	657.2	-21.7	28.9	9.8
36TH	101.00	24.1	38.2	61	178	397.9	214.2	15	-10	731.0	619.0	-19.7	26.7	9.0
37TH	104.00	25.1	37.0	63	178	399.3	207.7	14	-10	705.9	582.0	-17.9	24.5	8.3
38TH	107.00	26.0	35.8	65	178	400.8	200.9	14	-10	679.9	546.2	-16.3	22.5	7.5
39TH	110.01	27.0	34.6	67	178	402.5	194.2	13	-10	652.9	511.6	-14.7	20.5	6.8
40TH	113.01	28.1	33.4	69	178	404.3	187.4	12	-10	624.8	478.1	-13.2	18.6	6.1
41ST	116.01	29.1	32.2	72	178	406.1	180.6	11	-10	595.7	446.0	-11.8	16.7	5.4
42ND	119.01	30.1	31.0	74	178	408.1	173.8	11	-10	565.6	415.0	-10.5	15.0	4.8
43RD	122.01	31.1	29.8	76	178	408.3	167.0	10	-10	534.5	385.2	-9.3	13.3	4.2
44TH	125.01	31.7	28.4	78	178	404.4	159.3	9	-10	502.8	356.8	-8.2	11.8	3.6
45TH	128.01	32.0	27.0	81	178	398.1	151.7	8	-9	470.8	329.7	-7.2	10.3	3.1
46TH	131.01	32.3	25.7	83	178	390.4	144.1	7	-9	438.5	304.1	-6.2	8.9	2.7
47TH	134.01	32.4	24.3	85	178	380.9	136.5	6	-8	406.1	279.7	-5.3	7.7	2.3
48TH	137.01	32.3	23.0	87	178	370.0	128.8	5	-7	373.9	256.8	-4.5	6.5	1.9
49TH	140.01	32.0	21.6	89	178	357.7	121.2	4	-7	341.9	235.2	-3.8	5.4	1.6
50TH	143.01	31.9	20.7	92	178	348.7	116.1	4	-6	310.0	214.5	-3.1	4.5	1.3
51ST	149.01	64.5	42.3	190	357	339.5	118.8	3	-5	245.5	172.1	-2.0	2.8	.9
TOP	171.76	245.5	172.1	800	1351	306.8	127.4	2	-2	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 170

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									1137.1	867.8	-62.6	119.2	17.2
5TH	8.00	9.5	25.6	132	475	62.2	53.9	15	-5	1127.7	842.2	-55.8	110.1	16.7
6TH	11.00	4.7	11.8	57	178	83.2	66.4	12	-5	1122.9	830.4	-53.3	106.7	16.6
7TH	14.00	5.4	13.1	57	178	94.6	73.2	11	-5	1117.5	817.3	-50.8	103.4	16.4
8TH	17.00	6.0	14.3	57	178	106.0	80.1	11	-5	1111.5	803.0	-48.4	100.0	16.2
9TH	20.00	6.7	15.5	57	178	117.4	86.9	10	-4	1104.8	787.5	-46.0	96.7	16.0
10TH	23.00	7.3	16.7	57	178	128.8	93.7	10	-4	1097.5	770.8	-43.7	93.4	15.8
11TH	26.00	8.0	17.9	57	178	140.2	100.6	9	-4	1089.5	752.9	-41.4	90.1	15.6
12TH	29.00	8.6	19.1	57	178	151.6	107.4	9	-4	1080.8	733.8	-39.1	86.9	15.4
13TH	32.00	9.6	20.0	57	178	169.2	112.4	9	-4	1071.2	713.7	-37.0	83.6	15.2
14TH	35.00	10.7	20.6	57	178	187.9	115.8	10	-5	1060.5	693.1	-34.9	80.4	15.0
15TH	38.00	11.8	21.2	57	178	206.5	119.1	11	-6	1048.7	671.8	-32.8	77.3	14.7
16TH	41.00	12.8	21.8	57	178	225.2	122.5	12	-7	1035.9	650.0	-30.8	74.1	14.3
17TH	44.00	13.9	22.4	57	178	243.8	125.8	12	-8	1022.0	627.6	-28.9	71.1	13.9
18TH	47.00	15.0	23.0	57	178	262.5	129.2	13	-8	1007.0	604.5	-27.1	68.0	13.5
19TH	50.00	16.0	23.6	57	178	281.1	132.5	13	-9	991.0	580.9	-25.3	65.0	13.1
20TH	53.00	17.1	24.2	57	178	299.8	135.9	14	-10	973.9	556.7	-23.6	62.1	12.6
21ST	56.00	17.9	24.8	57	178	313.9	138.9	14	-10	956.0	531.9	-21.9	59.2	12.1
22ND	59.00	18.3	24.4	57	178	320.8	136.9	14	-11	937.7	507.5	-20.4	56.3	11.5
23RD	62.00	18.7	24.0	57	178	327.7	134.9	14	-11	919.1	483.5	-18.9	53.5	11.0
24TH	65.00	19.1	23.7	57	178	334.6	132.8	14	-11	900.0	459.8	-17.5	50.8	10.4
25TH	68.00	19.5	23.3	57	178	341.5	130.8	14	-12	880.5	436.5	-16.1	48.1	9.8
26TH	71.00	19.9	23.0	57	178	348.3	128.7	14	-12	860.7	413.5	-14.9	45.5	9.3
27TH	74.00	20.2	22.6	57	178	355.2	126.7	14	-13	840.4	390.9	-13.7	43.0	8.7
28TH	77.00	20.6	22.2	57	178	362.1	124.7	14	-13	819.8	368.7	-12.5	40.5	8.1
		21.0	21.9	57	178	369.0	122.6	14	-14					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 170

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	21.2	21.3	57	178	372.4	119.7	14	-14	798.7	346.8	-11.4	38.1	7.5
30TH	83.00	21.4	20.7	57	178	375.4	116.2	14	-14	777.5	325.5	-10.4	35.7	6.9
31ST	86.00	21.6	20.1	57	178	378.4	112.7	13	-14	756.1	304.8	-9.5	33.4	6.3
32ND	89.00	21.7	19.5	57	178	381.5	109.2	13	-15	734.6	284.7	-8.6	31.2	5.7
33RD	92.00	21.9	18.8	57	178	384.5	105.7	13	-15	712.8	265.2	-7.8	29.0	5.1
34TH	95.00	22.4	18.2	58	178	385.0	102.2	12	-15	690.9	246.4	-7.0	26.9	4.6
35TH	98.00	23.2	17.6	61	178	384.0	98.7	11	-15	668.5	228.1	-6.3	24.8	4.0
36TH	101.00	24.0	16.9	63	178	383.3	94.7	10	-15	645.2	210.5	-5.6	22.9	3.5
37TH	104.00	24.9	16.2	65	178	382.8	90.6	9	-14	621.2	193.6	-5.0	21.0	2.9
38TH	107.00	25.7	15.4	67	178	382.5	86.5	8	-14	596.3	177.5	-4.5	19.1	2.4
39TH	110.01	26.5	14.7	69	178	382.4	82.4	7	-13	570.6	162.1	-4.0	17.4	2.0
40TH	113.01	27.4	14.0	72	178	382.4	78.2	7	-13	544.1	147.4	-3.5	15.7	1.5
41ST	116.01	28.3	13.2	74	178	382.6	74.1	6	-12	516.7	133.4	-3.1	14.1	1.0
42ND	119.01	29.0	12.5	76	178	380.7	69.9	5	-12	488.4	120.2	-2.7	12.6	.6
43RD	122.01	29.3	11.3	78	178	374.3	63.4	4	-10	459.4	107.8	-2.4	11.2	.2
44TH	125.01	29.4	10.1	81	178	365.3	56.9	3	-9	430.1	96.5	-2.1	9.9	-.1
45TH	128.01	29.4	9.0	83	178	355.0	50.3	2	-8	400.7	86.3	-1.8	8.6	-.5
46TH	131.01	29.1	7.8	85	178	342.8	43.8	2	-6	371.4	77.3	-1.5	7.5	-.7
47TH	134.01	28.7	6.6	87	178	329.1	37.3	1	-5	342.2	69.5	-1.3	6.4	-.9
48TH	137.01	28.1	5.5	89	178	314.1	30.7	1	-4	313.6	62.9	-1.1	5.4	-1.1
49TH	140.01	27.6	4.7	92	178	301.4	26.2	0	-2	285.5	57.4	-.9	4.5	-1.2
50TH	143.01	54.4	9.8	190	357	286.6	27.5	0	-1	257.9	52.8	-.8	3.7	-1.2
51ST	149.01	203.4	43.0	800	1351	254.2	31.8	0	-1	203.4	43.0	-.5	2.3	-1.3
TOP	171.76							-1	6	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;
WIND DIRECTION 180

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									973.6	-259.8	18.9	99.0	-5.6
5TH	8.00	7.4	-12.8	152	475	48.5	-26.9	13	8	966.3	-247.0	16.8	91.2	-5.3
6TH	11.00	3.9	-5.1	57	178	69.2	-28.6	11	8	962.3	-241.9	16.1	88.3	-5.2
7TH	14.00	4.6	-5.3	57	178	80.5	-29.5	9	8	957.7	-236.6	15.4	85.4	-5.2
8TH	17.00	5.2	-5.4	57	178	91.8	-30.5	8	8	952.5	-231.2	14.7	82.6	-5.1
9TH	20.00	5.9	-5.6	57	178	103.1	-31.4	7	8	946.6	-225.6	14.0	79.7	-5.0
10TH	23.00	6.5	-5.8	57	178	114.4	-32.4	7	7	940.1	-219.8	13.3	76.9	-4.9
11TH	26.00	7.2	-5.9	57	178	125.7	-33.3	6	7	933.0	-213.9	12.7	74.1	-4.8
12TH	29.00	7.8	-6.1	57	178	137.0	-34.2	5	7	925.1	-207.8	12.1	71.3	-4.7
13TH	32.00	8.7	-6.2	57	178	153.4	-34.9	5	7	916.4	-201.6	11.4	68.5	-4.6
14TH	35.00	9.7	-6.3	57	178	170.8	-35.4	5	7	906.7	-195.3	10.8	65.8	-4.5
15TH	38.00	10.7	-6.4	57	178	188.2	-35.8	5	8	895.9	-188.9	10.3	63.1	-4.4
16TH	41.00	11.7	-6.5	57	178	205.6	-36.2	4	8	884.2	-182.4	9.7	60.4	-4.3
17TH	44.00	12.7	-6.5	57	178	222.9	-36.7	4	8	871.5	-175.9	9.2	57.8	-4.2
18TH	47.00	13.7	-6.6	57	178	240.3	-37.1	4	8	857.8	-169.3	8.7	55.2	-4.0
19TH	50.00	14.7	-6.7	57	178	257.7	-37.5	4	8	843.1	-162.6	8.2	52.6	-3.9
20TH	53.00	15.7	-6.8	57	178	275.1	-38.0	4	8	827.4	-155.8	7.7	50.1	-3.7
21ST	56.00	16.4	-6.8	57	178	288.2	-38.3	4	9	811.0	-149.0	7.2	47.7	-3.6
22ND	59.00	16.8	-6.6	57	178	294.6	-36.8	3	8	794.2	-142.4	6.8	45.3	-3.4
23RD	62.00	17.2	-6.3	57	178	300.9	-35.2	3	8	777.1	-136.1	6.4	42.9	-3.2
24TH	65.00	17.5	-6.0	57	178	307.3	-33.7	3	8	759.6	-130.1	6.0	40.6	-3.1
25TH	68.00	17.9	-5.7	57	178	313.7	-32.2	3	8	741.7	-124.4	5.6	38.4	-2.9
26TH	71.00	18.2	-5.5	57	178	320.0	-30.6	2	8	723.4	-119.0	5.2	36.2	-2.8
27TH	74.00	18.6	-5.2	57	178	326.4	-29.1	2	7	704.8	-113.8	4.9	34.0	-2.6
28TH	77.00	19.0	-4.9	57	178	332.8	-27.5	2	7	685.9	-108.9	4.5	31.9	-2.5
		19.3	-4.6	57	178	339.2	-26.0	2	7					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 180

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	19.6	-4.5	57	178	344.6	-25.0	2	7	666.5	-104.2	4.2	29.9	-2.4
30TH	83.00	19.9	-4.4	57	178	349.9	-24.4	1	6	646.9	-99.8	3.9	27.9	-2.2
31ST	86.00	20.2	-4.3	57	178	355.2	-23.9	1	6	627.0	-95.4	3.6	26.0	-2.1
32ND	89.00	20.5	-4.2	57	178	360.5	-23.3	1	6	606.7	-91.1	3.3	24.2	-1.9
33RD	92.00	20.8	-4.1	57	178	365.7	-22.7	1	6	586.2	-87.0	3.1	22.4	-1.8
34TH	95.00	21.4	-4.0	58	178	367.3	-22.2	1	6	565.3	-82.9	2.8	20.6	-1.7
35TH	98.00	22.2	-3.8	61	178	366.2	-21.6	1	5	543.9	-79.0	2.6	19.0	-1.6
36TH	101.00	22.8	-3.9	63	178	363.4	-21.8	1	5	521.7	-75.1	2.3	17.4	-1.5
37TH	104.00	23.4	-3.9	65	178	361.0	-22.2	1	5	498.9	-71.3	2.1	15.9	-1.3
38TH	107.00	24.1	-4.0	67	178	358.9	-22.5	1	4	475.5	-67.3	1.9	14.4	-1.2
39TH	110.01	24.8	-4.1	69	178	357.1	-22.9	1	4	451.4	-63.3	1.7	13.0	-1.1
40TH	113.01	25.5	-4.1	72	178	355.5	-23.3	1	4	426.6	-59.2	1.5	11.7	-1.0
41ST	116.01	26.2	-4.2	74	178	354.2	-23.7	1	4	401.1	-55.1	1.4	10.4	-0.9
42ND	119.01	26.6	-4.3	76	178	349.3	-24.0	1	3	375.0	-50.8	1.2	9.3	-0.8
43RD	122.01	26.3	-4.0	78	178	336.3	-22.5	0	3	348.4	-46.6	1.1	8.2	-0.7
44TH	125.01	25.7	-3.7	81	178	319.6	-21.0	0	3	322.1	-42.6	.9	7.2	-0.6
45TH	128.01	24.9	-3.5	83	178	300.8	-19.5	0	3	296.3	-38.8	.8	6.3	-0.6
46TH	131.01	23.7	-3.2	85	178	279.2	-18.0	0	3	271.5	-35.3	.7	5.4	-0.5
47TH	134.01	22.3	-2.9	87	178	255.4	-16.5	0	2	247.7	-32.1	.6	4.6	-0.4
48TH	137.01	20.5	-2.7	89	178	229.4	-15.0	0	2	225.5	-29.2	.5	3.9	-0.4
49TH	140.01	19.4	-2.5	92	178	211.6	-14.0	0	2	205.0	-26.5	.4	3.3	-0.3
50TH	143.01	37.4	-5.0	190	357	196.7	-14.0	0	2	185.6	-24.0	.3	2.7	-0.3
51ST	149.01	148.2	-19.0	800	1351	185.2	-14.1	0	1	148.2	-19.0	.2	1.7	-0.2
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 190

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	17.1	-41.8	152	475	112.8	-87.9	14	6	1296.8	-929.0	62.4	135.0	-22.3
5TH	8.00	7.5	-18.4	57	178	131.1	-103.3	14	6	1279.7	-887.3	55.1	124.7	-21.7
6TH	11.00	8.0	-19.9	57	178	141.1	-111.6	14	6	1272.2	-868.8	52.5	120.9	-21.4
7TH	14.00	8.6	-21.4	57	178	151.1	-120.0	14	6	1264.1	-848.9	49.9	117.1	-21.0
8TH	17.00	9.2	-22.9	57	178	161.1	-128.3	14	6	1255.5	-827.6	47.4	113.3	-20.7
9TH	20.00	9.8	-24.4	57	178	171.1	-136.7	14	6	1246.3	-804.7	44.9	109.5	-20.3
10TH	23.00	10.3	-25.9	57	178	181.1	-145.1	14	6	1236.6	-780.3	42.6	105.8	-19.9
11TH	26.00	10.9	-27.4	57	178	191.1	-153.4	14	6	1226.3	-754.4	40.2	102.1	-19.5
12TH	29.00	11.8	-28.0	57	178	207.5	-156.8	15	6	1215.4	-727.1	38.0	98.5	-19.0
13TH	32.00	12.8	-27.7	57	178	225.1	-155.5	15	7	1203.5	-699.1	35.9	94.8	-18.5
14TH	35.00	13.8	-27.5	57	178	242.7	-154.1	15	8	1190.7	-671.4	33.8	91.2	-18.0
15TH	38.00	14.8	-27.2	57	178	260.3	-152.8	16	9	1176.9	-643.9	31.9	87.7	-17.5
16TH	41.00	15.8	-27.0	57	178	277.9	-151.4	16	9	1162.0	-616.7	30.0	84.2	-17.0
17TH	44.00	16.8	-26.8	57	178	295.4	-150.1	16	10	1146.2	-589.7	28.2	80.7	-16.4
18TH	47.00	17.8	-26.5	57	178	313.0	-148.8	16	11	1129.4	-562.9	26.4	77.3	-15.8
19TH	50.00	18.8	-26.3	57	178	330.6	-147.4	16	12	1111.5	-536.4	24.8	73.9	-15.1
20TH	53.00	19.6	-26.0	57	178	343.9	-145.9	17	13	1092.7	-510.1	23.2	70.6	-14.5
21ST	56.00	20.0	-24.9	57	178	356.4	-139.9	16	13	1073.1	-484.1	21.7	67.4	-13.8
22ND	59.00	20.3	-23.9	57	178	357.0	-133.9	16	14	1053.1	-459.2	20.3	64.2	-13.1
23RD	62.00	20.7	-22.8	57	178	363.5	-127.8	16	14	1032.8	-435.3	19.0	61.1	-12.5
24TH	65.00	21.1	-21.7	57	178	370.1	-121.8	15	15	1012.0	-412.5	17.7	58.0	-11.8
25TH	68.00	21.5	-20.6	57	178	376.6	-115.8	15	15	990.9	-390.8	16.5	55.0	-11.2
26TH	71.00	21.8	-19.6	57	178	383.2	-109.8	14	16	969.5	-370.2	15.3	52.1	-10.6
27TH	74.00	22.2	-18.5	57	178	389.7	-103.8	14	16	947.6	-350.6	14.3	49.2	-9.9
28TH	77.00	22.6	-17.4	57	178	396.3	-97.8	13	17	925.4	-332.1	13.2	46.4	-9.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
 WIND DIRECTION 190 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									902.8	-314.6	12.3	43.6	-8.7
30TH	83.00	22.8	-16.6	57	178	400.1	-93.0	13	17	880.0	-298.1	11.3	41.0	-8.1
31ST	86.00	23.0	-15.9	57	178	403.7	-89.0	12	18	857.0	-282.2	10.5	38.4	-7.5
32ND	89.00	23.2	-15.1	57	178	407.3	-85.0	12	18	833.8	-267.1	9.7	35.8	-6.9
33RD	92.00	23.4	-14.4	57	178	410.9	-81.0	11	18	810.4	-252.6	8.9	33.4	-6.3
34TH	95.00	23.6	-13.7	57	178	414.5	-77.0	10	18	786.8	-238.9	8.1	31.0	-5.8
35TH	98.00	24.2	-13.0	58	178	415.9	-73.0	10	18	762.5	-225.9	7.4	28.6	-5.2
36TH	101.00	25.2	-12.3	61	178	416.2	-69.0	9	18	737.3	-213.6	6.8	26.4	-4.7
37TH	104.00	26.2	-12.1	63	178	418.1	-67.8	8	17	711.1	-201.5	6.2	24.2	-4.1
38TH	107.00	27.3	-12.0	65	178	420.2	-67.4	7	16	683.8	-189.5	5.6	22.1	-3.6
39TH	110.01	28.4	-11.9	67	178	422.6	-67.0	6	15	655.4	-177.6	5.0	20.1	-3.1
40TH	113.01	29.5	-11.9	69	178	425.2	-66.6	6	14	625.9	-165.7	4.5	18.2	-2.6
41ST	116.01	30.7	-11.8	72	178	428.0	-66.1	5	14	595.2	-153.9	4.0	16.4	-2.1
42ND	119.01	31.8	-11.7	74	178	430.9	-65.7	5	13	563.4	-142.2	3.6	14.6	-1.7
43RD	122.01	32.8	-11.6	76	178	431.1	-65.1	4	12	530.6	-130.6	3.2	13.0	-1.2
44TH	125.01	33.3	-10.7	78	178	425.2	-60.2	3	11	497.3	-119.9	2.8	11.4	-.8
45TH	128.01	33.5	-9.8	81	178	416.6	-55.2	3	10	463.8	-110.0	2.5	10.0	-.5
46TH	131.01	33.6	-9.0	83	178	406.5	-50.3	2	9	430.2	-101.1	2.1	8.6	-.2
47TH	134.01	33.5	-8.1	85	178	394.3	-45.3	2	7	396.7	-93.0	1.8	7.4	.1
48TH	137.01	33.2	-7.2	87	178	380.4	-40.3	1	6	363.5	-85.8	1.6	6.3	.3
49TH	140.01	32.6	-6.3	89	178	365.0	-35.4	1	5	330.9	-79.5	1.3	5.2	.5
50TH	143.01	32.1	-5.8	92	178	350.7	-32.3	1	4	298.7	-73.7	1.1	4.3	.7
51ST	149.01	63.1	-12.6	190	357	332.5	-35.4	1	3	235.6	-61.1	.7	2.7	.8
TOP	171.76	235.6	-61.1	800	1351	294.4	-45.2	-1	-3	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 200

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	24.9	-83.3	152	475	163.9	-175.7	14	4	1383.0	-1623.3	120.0	143.7	-30.2
5TH	8.00	10.2	-33.0	57	178	178.6	-184.9	15	5	1358.1	-1539.7	107.4	132.7	-28.9
6TH	11.00	10.6	-33.8	57	178	186.7	-189.9	15	5	1347.9	-1506.8	102.8	128.6	-28.4
7TH	14.00	11.1	-34.7	57	178	194.7	-194.8	16	5	1337.3	-1472.9	98.3	124.6	-27.8
8TH	17.00	11.6	-35.6	57	178	202.7	-199.8	16	5	1326.2	-1438.2	94.0	120.6	-27.2
9TH	20.00	12.0	-36.5	57	178	210.8	-204.8	16	5	1314.6	-1402.6	89.7	116.7	-26.6
10TH	23.00	12.5	-37.4	57	178	218.8	-209.8	17	6	1302.6	-1366.1	85.5	112.7	-25.9
11TH	26.00	12.9	-38.3	57	178	226.9	-214.8	17	6	1290.1	-1328.7	81.5	108.8	-25.3
12TH	29.00	13.7	-38.7	57	178	240.8	-216.9	17	6	1277.2	-1290.4	77.6	105.0	-24.5
13TH	32.00	14.6	-38.5	57	178	255.9	-216.2	17	6	1263.5	-1251.7	73.8	101.2	-23.8
14TH	35.00	15.4	-38.4	57	178	270.9	-215.6	17	7	1248.9	-1213.1	70.1	97.4	-23.0
15TH	38.00	16.3	-38.3	57	178	285.9	-214.9	17	7	1233.4	-1174.7	66.5	93.7	-22.3
16TH	41.00	17.2	-38.2	57	178	300.9	-214.2	17	8	1217.1	-1136.4	63.0	90.0	-21.5
17TH	44.00	18.0	-38.1	57	178	315.9	-213.6	17	8	1200.0	-1098.2	59.7	86.4	-20.7
18TH	47.00	18.9	-38.0	57	178	330.9	-212.9	17	8	1182.0	-1060.1	56.4	82.8	-20.0
19TH	50.00	19.7	-37.8	57	178	345.9	-212.2	17	9	1163.1	-1022.2	53.3	79.3	-19.2
20TH	53.00	20.3	-37.7	57	178	356.5	-211.4	17	9	1143.4	-984.3	50.3	75.8	-18.4
21ST	56.00	20.5	-36.8	57	178	360.1	-206.6	16	9	1123.1	-946.7	47.4	72.4	-17.6
22ND	59.00	20.7	-36.0	57	178	363.6	-201.9	16	9	1102.6	-909.8	44.6	69.1	-16.8
23RD	62.00	20.9	-35.2	57	178	367.1	-197.2	16	10	1081.8	-873.8	41.9	65.8	-16.0
24TH	65.00	21.1	-34.3	57	178	370.7	-192.4	16	10	1060.9	-838.7	39.4	62.6	-15.2
25TH	68.00	21.3	-33.5	57	178	374.2	-187.7	16	10	1039.8	-804.4	36.9	59.4	-14.5
26TH	71.00	21.5	-32.6	57	178	377.8	-182.9	16	10	1018.5	-770.9	34.5	56.4	-13.7
27TH	74.00	21.7	-31.8	57	178	381.3	-178.2	15	11	996.9	-738.3	32.3	53.3	-13.0
28TH	77.00	21.9	-30.9	57	178	384.9	-173.5	15	11	975.2	-706.5	30.1	50.4	-12.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 200

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	22.1	-30.2	57	178	388.5	-169.3	15	11	933.2	-675.6	28.0	47.5	-11.6
30TH	83.00	22.4	-29.5	57	178	392.2	-165.5	15	11	931.1	-645.4	26.0	44.7	-10.9
31ST	86.00	22.6	-28.8	57	178	395.8	-161.8	15	11	908.7	-615.9	24.2	41.9	-10.2
32ND	89.00	22.8	-28.2	57	178	399.5	-158.0	14	12	886.2	-587.0	22.4	39.2	-9.5
33RD	92.00	23.0	-27.5	57	178	403.1	-154.3	14	12	863.4	-558.9	20.6	36.6	-8.9
34TH	95.00	23.7	-26.8	58	178	406.5	-150.5	14	12	840.4	-531.4	19.0	34.0	-8.2
35TH	98.00	24.8	-26.2	61	178	410.0	-146.7	13	12	816.7	-504.5	17.4	31.5	-7.6
36TH	101.00	26.0	-25.6	63	178	414.2	-143.7	12	12	791.9	-478.4	16.0	29.1	-6.9
37TH	104.00	27.2	-25.1	65	178	418.5	-140.8	11	12	765.9	-452.8	14.6	26.8	-6.3
38TH	107.00	28.4	-24.6	67	178	422.8	-137.9	10	12	738.7	-427.7	13.3	24.5	-5.7
39TH	110.01	29.6	-24.1	69	178	427.2	-135.0	9	12	710.3	-403.1	12.0	22.4	-5.1
40TH	113.01	30.9	-23.5	72	178	431.5	-132.1	9	11	680.7	-379.0	10.8	20.3	-4.5
41ST	116.01	32.2	-23.0	74	178	436.0	-129.2	8	11	649.8	-355.5	9.7	18.3	-4.0
42ND	119.01	33.3	-22.5	76	178	438.3	-126.2	7	11	617.6	-332.5	8.7	16.4	-3.4
43RD	122.01	34.1	-21.5	78	178	436.0	-120.4	6	10	584.2	-310.0	7.7	14.6	-2.9
44TH	125.01	34.7	-20.4	81	178	431.1	-114.7	5	9	550.1	-288.5	6.8	12.9	-2.4
45TH	128.01	35.2	-19.4	83	178	424.9	-108.9	5	8	515.4	-268.0	6.0	11.3	-2.0
46TH	131.01	35.4	-18.4	85	178	416.6	-103.1	4	7	480.2	-248.6	5.2	9.8	-1.6
47TH	134.01	35.5	-17.4	87	178	406.8	-97.3	3	7	444.9	-230.3	4.5	8.4	-1.3
48TH	137.01	35.4	-16.3	89	178	395.6	-91.6	3	6	409.4	-212.9	3.8	7.1	-1.0
49TH	140.01	35.3	-15.7	92	178	385.4	-88.2	2	5	374.0	-196.6	3.2	5.9	-0.8
50TH	143.01	70.8	-33.2	190	357	372.6	-93.2	2	4	338.7	-180.8	2.7	4.9	-0.5
51ST	149.01	268.0	-147.6	800	1351	334.9	-109.2	0	1	268.0	-147.6	1.7	3.0	-0.2
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 210

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									1235.5	-2636.7	216.6	127.5	-42.2
5TH	8.00	34.8	-125.8	152	475	229.2	-264.5	16	4	1200.7	-2511.0	196.0	117.7	-40.0
6TH	11.00	12.8	-47.1	57	178	225.0	-264.2	16	4	1187.9	-2463.9	188.6	114.1	-39.2
7TH	14.00	12.7	-47.1	57	178	222.6	-264.0	16	4	1175.2	-2416.8	181.3	110.6	-38.4
8TH	17.00	12.6	-47.0	57	178	220.3	-263.8	16	4	1162.6	-2369.8	174.1	107.1	-37.6
9TH	20.00	12.4	-47.0	57	178	218.0	-263.6	17	4	1150.2	-2322.8	167.0	103.6	-36.7
10TH	23.00	12.3	-46.9	57	178	215.6	-263.3	17	4	1137.9	-2275.9	160.1	100.2	-35.9
11TH	26.00	12.2	-46.9	57	178	213.3	-263.1	17	4	1125.8	-2228.9	153.4	96.8	-35.0
12TH	29.00	12.0	-46.9	57	178	211.0	-262.9	17	4	1113.7	-2182.1	146.8	93.4	-34.2
13TH	32.00	12.5	-47.2	57	178	218.5	-265.0	17	5	1101.3	-2134.8	140.3	90.1	-33.3
14TH	35.00	13.0	-48.0	57	178	227.6	-269.1	17	5	1088.3	-2086.8	134.0	86.8	-32.4
15TH	38.00	13.5	-48.7	57	178	236.8	-273.3	17	5	1074.8	-2038.1	127.8	83.6	-31.5
16TH	41.00	14.0	-49.5	57	178	245.9	-277.5	17	5	1060.8	-1988.7	121.7	80.4	-30.6
17TH	44.00	14.5	-50.2	57	178	255.1	-281.6	17	5	1046.3	-1938.4	115.8	77.2	-29.7
18TH	47.00	15.1	-50.9	57	178	264.3	-285.8	17	5	1031.2	-1887.5	110.1	74.1	-28.8
19TH	50.00	15.6	-51.7	57	178	273.4	-289.9	17	5	1015.6	-1835.8	104.5	71.0	-27.8
20TH	53.00	16.1	-52.4	57	178	282.6	-294.1	16	5	999.5	-1783.4	99.1	68.0	-26.9
21ST	56.00	16.5	-53.1	57	178	289.8	-297.9	16	5	983.0	-1730.3	93.8	65.0	-25.9
22ND	59.00	16.7	-52.7	57	178	293.9	-295.6	16	5	966.2	-1677.6	88.7	62.1	-25.0
23RD	62.00	17.0	-52.3	57	178	297.9	-293.2	16	5	949.3	-1625.3	83.7	59.2	-24.0
24TH	65.00	17.2	-51.9	57	178	302.0	-290.9	16	5	932.0	-1573.4	78.9	56.4	-23.1
25TH	68.00	17.4	-51.4	57	178	306.1	-288.5	16	5	914.6	-1522.0	74.3	53.6	-22.2
26TH	71.00	17.7	-51.0	57	178	310.2	-286.2	16	6	896.9	-1471.0	69.8	50.9	-21.3
27TH	74.00	17.9	-50.6	57	178	314.3	-283.9	16	6	879.0	-1420.4	65.5	48.2	-20.4
28TH	77.00	18.1	-50.2	57	178	318.3	-281.5	16	6	860.9	-1370.2	61.3	45.6	-19.5
		18.4	-49.8	57	178	322.4	-279.2	16	6					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 210

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	18.5	-49.5	57	178	323.7	-277.4	16	6	842.5	-1320.4	57.3	43.1	-18.6
30TH	83.00	18.5	-49.2	57	178	324.7	-276.2	16	6	824.0	-1270.9	53.4	40.6	-17.7
31ST	86.00	18.6	-49.0	57	178	325.8	-274.9	15	6	805.5	-1221.7	49.6	38.1	-16.8
32ND	89.00	18.6	-48.8	57	178	326.8	-273.6	15	6	787.0	-1172.7	46.0	35.7	-16.0
33RD	92.00	18.7	-48.6	57	178	327.8	-272.4	15	6	768.3	-1123.9	42.6	33.4	-15.1
34TH	95.00	19.3	-48.3	58	178	331.2	-271.1	15	6	749.6	-1075.4	39.3	31.1	-14.3
35TH	98.00	20.4	-48.1	61	178	336.5	-269.8	15	6	730.3	-1027.0	36.1	28.9	-13.4
36TH	101.00	21.6	-47.6	63	178	344.0	-267.1	14	7	710.0	-978.9	33.1	26.8	-12.6
37TH	104.00	22.8	-47.1	65	178	351.2	-264.1	14	7	688.4	-931.3	30.3	24.7	-11.8
38TH	107.00	24.1	-46.5	67	178	358.3	-261.1	13	7	665.6	-884.2	27.5	22.6	-11.0
39TH	110.01	25.3	-46.0	69	178	365.2	-258.0	13	7	641.5	-837.7	25.0	20.7	-10.2
40TH	113.01	26.6	-45.5	72	178	371.9	-255.0	12	7	616.1	-791.6	22.5	18.8	-9.4
41ST	116.01	28.0	-44.9	74	178	378.5	-251.9	12	7	589.5	-746.2	20.2	17.0	-8.6
42ND	119.01	29.1	-44.4	76	178	382.1	-248.9	11	7	561.6	-701.3	18.0	15.2	-7.9
43RD	122.01	29.7	-43.6	78	178	379.9	-244.3	11	7	532.5	-656.9	16.0	13.6	-7.2
44TH	125.01	30.2	-42.8	81	178	375.2	-239.8	10	7	502.8	-613.3	14.1	12.1	-6.5
45TH	128.01	30.5	-42.0	83	178	369.1	-235.3	10	7	472.5	-570.6	12.3	10.6	-5.8
46TH	131.01	30.7	-41.1	85	178	361.1	-230.8	9	7	442.0	-528.6	10.7	9.2	-5.2
47TH	134.01	30.6	-40.3	87	178	351.6	-226.3	8	6	411.3	-487.5	9.1	7.9	-4.7
48TH	137.01	30.5	-39.5	89	178	340.6	-221.8	8	6	380.7	-447.1	7.7	6.7	-4.1
49TH	140.01	30.7	-38.9	92	178	334.6	-218.3	7	6	350.2	-407.6	6.5	5.7	-3.6
50TH	143.01	63.0	-77.6	190	357	331.6	-217.6	7	5	319.6	-368.7	5.3	4.6	-3.2
51ST	149.01	256.6	-291.1	800	1351	320.7	-215.4	4	4	256.6	-291.1	3.3	2.9	-2.3
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 220

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FDRCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									854.8	-3651.0	310.9	88.5	-57.6
5TH	8.00	38.0	-154.9	152	475	250.1	-325.9	17	4	816.8	-3496.1	282.3	81.8	-54.7
6TH	11.00	12.9	-58.4	57	178	226.3	-327.3	17	4	803.9	-3437.7	271.9	79.4	-53.7
7TH	14.00	12.2	-58.5	57	178	213.3	-328.1	18	4	791.8	-3379.2	261.6	77.0	-52.6
8TH	17.00	11.4	-58.6	57	178	200.3	-328.9	18	3	780.4	-3320.6	251.6	74.7	-51.5
9TH	20.00	10.7	-58.8	57	178	187.3	-329.7	18	3	769.7	-3261.8	241.7	72.3	-50.5
10TH	23.00	9.9	-58.9	57	178	174.3	-330.5	18	3	759.7	-3202.9	232.0	70.0	-49.4
11TH	26.00	9.2	-59.1	57	178	161.3	-331.3	18	3	750.5	-3143.8	222.5	67.8	-48.3
12TH	29.00	8.5	-59.2	57	178	148.3	-332.1	18	3	742.1	-3084.6	213.2	65.5	-47.3
13TH	32.00	8.5	-59.9	57	178	148.7	-336.1	17	2	733.6	-3024.7	204.0	63.3	-46.2
14TH	35.00	8.6	-61.2	57	178	151.4	-343.2	17	2	725.0	-2963.5	195.0	61.1	-45.1
15TH	38.00	8.8	-62.4	57	178	154.0	-350.2	17	2	716.2	-2901.1	186.2	59.0	-44.0
16TH	41.00	8.9	-63.7	57	178	156.7	-357.2	17	2	707.3	-2837.4	177.6	56.8	-42.9
17TH	44.00	9.1	-64.9	57	178	159.3	-364.3	17	2	698.2	-2772.4	169.2	54.7	-41.8
18TH	47.00	9.2	-66.2	57	178	162.0	-371.3	17	2	689.0	-2706.2	161.0	52.7	-40.7
19TH	50.00	9.4	-67.4	57	178	164.6	-378.3	17	2	679.6	-2638.8	153.0	50.6	-39.5
20TH	53.00	9.5	-68.7	57	178	167.3	-385.4	17	2	670.0	-2570.1	145.1	48.6	-38.3
21ST	56.00	9.7	-69.9	57	178	169.6	-392.1	17	2	660.4	-2500.2	137.5	46.6	-37.2
22ND	59.00	9.8	-69.9	57	178	171.3	-392.3	16	2	650.6	-2430.3	130.1	44.6	-36.0
23RD	62.00	9.9	-70.0	57	178	173.0	-392.5	16	2	640.8	-2360.3	123.0	42.7	-34.8
24TH	65.00	10.0	-70.0	57	178	174.6	-392.8	16	2	630.8	-2290.2	116.0	40.8	-33.6
25TH	68.00	10.1	-70.1	57	178	176.3	-393.0	16	2	620.8	-2220.2	109.2	38.9	-32.5
26TH	71.00	10.1	-70.1	57	178	178.0	-393.3	16	2	610.6	-2150.1	102.7	37.0	-31.3
27TH	74.00	10.2	-70.2	57	178	179.7	-393.5	16	2	600.4	-2079.9	96.3	35.2	-30.1
28TH	77.00	10.3	-70.2	57	178	181.4	-393.8	16	2	590.0	-2009.7	90.2	33.4	-29.0
		10.4	-70.2	57	178	183.1	-394.0	16	2					

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 220

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									579.6	-1939.5	84.3	31.7	-27.8
30TH	83.00	10.3	-70.2	57	178	181.0	-393.9	16	2	569.3	-1869.2	78.5	30.0	-26.7
31ST	86.00	10.2	-70.2	57	178	178.5	-393.6	16	2	559.1	-1799.0	73.0	28.3	-25.6
32ND	89.00	10.0	-70.1	57	178	176.1	-393.3	16	2	549.1	-1728.9	67.7	26.6	-24.4
33RD	92.00	9.9	-70.1	57	178	173.7	-393.0	16	2	539.2	-1658.9	62.7	25.0	-23.3
34TH	95.00	9.8	-70.0	57	178	171.3	-392.7	16	2	529.4	-1588.8	57.8	23.4	-22.2
35TH	98.00	10.1	-70.0	58	178	173.9	-392.4	16	2	519.3	-1518.9	53.1	21.8	-21.0
36TH	101.00	10.9	-69.9	61	178	180.8	-392.1	16	2	508.3	-1449.0	48.7	20.3	-19.9
37TH	104.00	12.1	-69.5	63	178	192.9	-389.7	16	3	496.2	-1379.5	44.4	18.8	-18.8
38TH	107.00	13.3	-69.0	65	178	204.4	-386.8	15	3	482.9	-1310.6	40.4	17.3	-17.7
39TH	110.01	14.5	-68.5	67	178	215.1	-384.0	15	3	468.5	-1242.1	36.6	15.9	-16.6
40TH	113.01	15.6	-67.9	69	178	225.4	-381.1	15	3	452.8	-1174.2	32.9	14.5	-15.5
41ST	116.01	16.8	-67.4	72	178	235.1	-378.2	15	4	436.0	-1106.7	29.5	13.1	-14.5
42ND	119.01	18.0	-66.9	74	178	244.3	-375.4	14	4	418.0	-1039.8	26.3	11.9	-13.5
43RD	122.01	19.1	-66.4	76	178	250.5	-372.4	14	4	398.9	-973.4	23.3	10.6	-12.4
44TH	125.01	19.7	-65.6	78	178	251.3	-367.7	14	4	379.2	-907.8	20.5	9.5	-11.4
45TH	128.01	20.2	-64.7	81	178	250.4	-363.0	14	4	359.1	-843.1	17.8	8.4	-10.5
46TH	131.01	20.5	-63.9	83	178	248.4	-358.4	13	4	338.5	-779.2	15.4	7.3	-9.5
47TH	134.01	20.8	-63.1	85	178	245.1	-353.7	13	4	317.7	-716.2	13.2	6.3	-8.6
48TH	137.01	21.0	-62.2	87	178	240.7	-349.0	13	4	296.7	-654.0	11.1	5.4	-7.8
49TH	140.01	21.0	-61.4	89	178	235.2	-344.3	12	4	275.7	-592.6	9.2	4.5	-6.9
50TH	143.01	21.6	-60.5	92	178	235.5	-339.5	12	4	254.1	-532.1	7.5	3.8	-6.1
51ST	149.01	46.0	-118.2	190	357	242.4	-331.5	11	4	208.1	-413.9	4.7	2.4	-4.5
TOP	171.76	208.1	-413.9	800	1351	260.0	-306.3	9	4	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 230

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									368.8	-4272.9	373.9	36.2	-70.1
5TH	8.00	35.7	-169.9	152	475	235.0	-357.4	19	4	333.1	-4103.6	340.4	33.4	-66.8
6TH	11.00	11.4	-64.2	57	178	200.1	-360.1	19	3	321.6	-4038.8	328.2	32.4	-65.5
7TH	14.00	10.3	-64.4	57	178	181.1	-361.5	19	3	311.3	-3974.3	316.1	31.5	-64.3
8TH	17.00	9.2	-64.7	57	178	162.1	-363.0	18	3	302.1	-3909.6	304.3	30.6	-63.1
9TH	20.00	8.2	-65.0	57	178	143.1	-364.4	18	2	293.9	-3844.7	292.7	29.7	-61.8
10TH	23.00	7.1	-65.2	57	178	124.1	-365.9	18	2	286.9	-3779.4	281.2	28.8	-60.7
11TH	26.00	6.0	-65.5	57	178	105.1	-367.3	18	2	280.9	-3713.9	270.0	28.0	-59.5
12TH	29.00	4.9	-65.7	57	178	86.1	-368.8	18	1	275.9	-3648.2	259.0	27.1	-58.3
13TH	32.00	4.5	-66.6	57	178	79.8	-373.6	18	1	271.4	-3581.6	248.1	26.3	-57.1
14TH	35.00	4.3	-68.0	57	178	75.6	-381.5	18	1	267.1	-3513.6	237.5	25.5	-55.9
15TH	38.00	4.1	-69.4	57	178	71.4	-389.4	17	1	263.0	-3444.2	227.0	24.7	-54.7
16TH	41.00	3.8	-70.8	57	178	67.3	-397.4	17	1	259.2	-3373.3	216.8	23.9	-53.5
17TH	44.00	3.6	-72.3	57	178	63.1	-405.3	17	1	255.6	-3301.1	206.8	23.1	-52.2
18TH	47.00	3.4	-73.7	57	178	58.9	-413.3	17	1	252.2	-3227.4	197.0	22.4	-51.0
19TH	50.00	3.1	-75.1	57	178	54.7	-421.2	17	1	249.1	-3152.3	187.4	21.6	-49.7
20TH	53.00	2.9	-76.5	57	178	50.6	-429.2	17	1	246.2	-3075.8	178.1	20.9	-48.4
21ST	56.00	2.7	-77.9	57	178	47.9	-436.8	17	1	243.5	-2997.9	169.0	20.1	-47.1
22ND	59.00	2.7	-78.2	57	178	47.7	-438.7	17	1	240.8	-2919.7	160.1	19.4	-45.8
23RD	62.00	2.7	-78.5	57	178	47.4	-440.6	17	1	238.1	-2841.1	151.5	18.7	-44.5
24TH	65.00	2.7	-78.9	57	178	47.2	-442.5	17	1	235.4	-2762.2	143.1	18.0	-43.2
25TH	68.00	2.7	-79.2	57	178	46.9	-444.4	16	1	232.7	-2683.0	134.9	17.3	-41.9
26TH	71.00	2.7	-79.6	57	178	46.7	-446.2	16	1	230.1	-2603.5	127.0	16.6	-40.6
27TH	74.00	2.6	-79.9	57	178	46.4	-448.1	16	1	227.4	-2523.6	119.3	15.9	-39.3
28TH	77.00	2.6	-80.2	57	178	46.2	-450.0	16	1	224.8	-2443.3	111.8	15.2	-38.0
		2.6	-80.6	57	178	45.9	-451.9	16	1					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 230 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	2.3	-80.8	57	178	39.9	-453.2	16	0	222.2	-2362.8	104.6	14.6	-36.7
30TH	83.00	1.9	-81.0	57	178	33.4	-454.2	16	0	219.9	-2282.0	97.6	13.9	-35.3
31ST	86.00	1.5	-81.2	57	178	26.9	-455.2	16	0	218.0	-2201.0	90.9	13.2	-34.0
32ND	89.00	1.2	-81.3	57	178	20.3	-456.2	16	0	216.5	-2119.8	84.4	12.6	-32.7
33RD	92.00	.8	-81.5	57	178	13.9	-457.2	16	0	215.3	-2038.5	78.2	11.9	-31.4
34TH	95.00	.7	-81.7	58	178	12.5	-458.2	16	0	214.5	-1957.0	72.2	11.3	-30.0
35TH	98.00	1.0	-81.9	61	178	15.9	-459.2	17	0	213.8	-1875.3	66.5	10.7	-28.7
36TH	101.00	1.6	-81.9	63	178	24.8	-459.1	16	0	212.8	-1793.4	61.0	10.0	-27.3
37TH	104.00	2.1	-81.8	65	178	32.9	-458.8	16	0	211.3	-1711.6	55.7	9.4	-26.0
38TH	107.00	2.7	-81.7	67	178	40.3	-458.5	16	1	209.1	-1629.8	50.7	8.7	-24.6
39TH	110.01	3.3	-81.7	69	178	47.0	-458.2	16	1	206.4	-1548.1	45.9	8.1	-23.3
40TH	113.01	3.8	-81.6	72	178	53.1	-457.8	16	1	203.2	-1466.4	41.4	7.5	-22.0
41ST	116.01	4.3	-81.6	74	178	58.7	-457.5	16	1	199.4	-1384.7	37.1	6.9	-20.6
42ND	119.01	4.8	-81.5	76	178	63.3	-457.1	16	1	195.0	-1303.2	33.1	6.3	-19.3
43RD	122.01	5.3	-80.8	78	178	67.1	-453.4	16	1	190.2	-1221.7	29.3	5.7	-18.0
44TH	125.01	5.7	-80.2	81	178	70.8	-449.7	16	1	185.0	-1140.9	25.8	5.2	-16.7
45TH	128.01	6.2	-79.5	83	178	74.5	-446.0	16	1	179.3	-1060.7	22.5	4.6	-15.4
46TH	131.01	6.6	-78.8	85	178	78.2	-442.2	16	1	173.1	-981.2	19.4	4.1	-14.2
47TH	134.01	7.1	-78.2	87	178	81.8	-438.5	16	1	166.4	-902.4	16.6	3.6	-12.9
48TH	137.01	7.6	-77.5	89	178	85.3	-434.8	15	2	159.3	-824.2	14.0	3.1	-11.7
49TH	140.01	8.5	-76.7	92	178	93.1	-430.2	15	2	151.7	-746.7	11.6	2.6	-10.5
50TH	143.01	20.7	-149.6	190	357	108.8	-419.5	15	2	143.2	-670.0	9.5	2.2	-9.3
51ST	149.01	122.5	-520.4	800	1351	153.1	-385.1	13	3	122.5	-320.4	5.9	1.4	-7.0
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
 WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									88.8	-4433.6	407.3	2.9	-77.9
5TH	8.00	29.7	-163.3	152	475	195.4	-343.4	20	4	59.1	-4270.3	372.5	2.3	-74.6
6TH	11.00	9.4	-61.3	57	178	165.4	-344.0	20	3	49.7	-4209.0	359.8	2.1	-73.4
7TH	14.00	8.5	-61.4	57	178	149.0	-344.3	20	3	41.2	-4147.6	347.3	2.0	-72.1
8TH	17.00	7.6	-61.4	57	178	132.6	-344.6	19	2	33.7	-4086.2	334.9	1.9	-70.9
9TH	20.00	6.6	-61.5	57	178	116.2	-344.9	19	2	27.0	-4024.7	322.7	1.8	-69.7
10TH	23.00	5.7	-61.6	57	178	99.8	-345.3	19	2	21.4	-3963.1	310.8	1.7	-68.5
11TH	26.00	4.8	-61.6	57	178	83.4	-345.6	19	1	16.6	-3901.5	299.0	1.6	-67.3
12TH	29.00	3.8	-61.7	57	178	67.0	-345.9	19	1	12.8	-3839.9	287.3	1.6	-66.2
13TH	32.00	3.5	-62.2	57	178	61.9	-348.8	19	1	9.2	-3777.7	275.9	1.6	-65.0
14TH	35.00	3.3	-63.1	57	178	58.7	-354.2	19	1	5.9	-3714.5	264.7	1.5	-63.8
15TH	38.00	3.2	-64.1	57	178	55.5	-359.5	19	1	2.7	-3650.4	253.6	1.5	-62.6
16TH	41.00	3.0	-65.1	57	178	52.3	-364.9	19	1	-2	-3585.4	242.8	1.5	-61.4
17TH	44.00	2.8	-66.0	57	178	49.1	-370.2	18	1	-3.0	-3519.4	232.1	1.5	-60.2
18TH	47.00	2.6	-67.0	57	178	45.9	-375.6	18	1	-5.7	-3452.4	221.7	1.5	-59.0
19TH	50.00	2.4	-67.9	57	178	42.7	-381.0	18	1	-8.1	-3384.5	211.4	1.6	-57.7
20TH	53.00	2.3	-68.9	57	178	39.5	-386.3	18	1	-10.3	-3315.6	201.4	1.6	-56.5
21ST	56.00	2.0	-69.8	57	178	35.4	-391.7	18	1	-12.4	-3245.8	191.5	1.6	-55.2
22ND	59.00	1.7	-70.9	57	178	29.9	-397.7	18	0	-14.1	-3174.9	181.9	1.7	-53.9
23RD	62.00	1.4	-72.0	57	178	24.4	-403.7	18	0	-15.5	-3102.9	172.5	1.7	-52.6
24TH	65.00	1.1	-73.1	57	178	19.0	-409.8	18	0	-16.5	-3029.9	163.3	1.8	-51.3
25TH	68.00	.8	-74.1	57	178	13.5	-415.8	18	0	-17.3	-2955.7	154.3	1.8	-50.0
26TH	71.00	.5	-75.2	57	178	8.0	-421.8	18	0	-17.8	-2880.5	145.5	1.9	-48.7
27TH	74.00	.1	-76.3	57	178	2.5	-427.8	18	0	-17.9	-2804.2	137.0	1.9	-47.4
28TH	77.00	-.2	-77.4	57	178	-3.0	-433.9	17	-0	-17.7	-2726.9	128.7	2.0	-46.0
		-.5	-78.4	57	178	-8.4	-439.9	17	-0					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
WIND DIRECTION 240 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		GUST FACTOR 1.00 MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	Z		
29TH	80.00									-17.3	-2648.5	120.6	2.0	-44.6
30TH	83.00	-1.0	-79.7	57	178	-18.4	-447.1	17	-0	-16.2	-2568.8	112.8	2.1	-43.3
31ST	86.00	-1.6	-81.2	57	178	-28.7	-455.2	17	-0	-14.6	-2487.6	105.2	2.1	-41.9
32ND	89.00	-2.2	-82.6	57	178	-39.0	-463.3	17	-0	-12.3	-2405.0	97.9	2.2	-40.4
33RD	92.00	-2.8	-84.0	57	178	-49.3	-471.4	17	-1	-9.5	-2321.0	90.8	2.2	-39.0
34TH	95.00	-3.4	-85.5	57	178	-59.6	-479.4	17	-1	-6.1	-2235.5	84.0	2.2	-37.5
35TH	98.00	-3.9	-86.9	58	178	-66.4	-487.5	17	-1	-2.3	-2148.6	77.4	2.2	-36.0
36TH	101.00	-4.2	-88.4	61	178	-69.6	-495.6	17	-1	1.9	-2060.2	71.1	2.2	-34.5
37TH	104.00	-4.2	-89.1	63	178	-66.6	-499.5	17	-1	6.1	-1971.2	65.0	2.2	-33.0
38TH	107.00	-4.2	-89.6	65	178	-64.3	-502.5	17	-1	10.3	-1881.6	59.3	2.2	-31.4
39TH	110.01	-4.2	-90.1	67	178	-62.8	-505.5	17	-1	14.5	-1791.5	53.7	2.1	-29.9
40TH	113.01	-4.3	-90.6	69	178	-61.8	-508.4	17	-1	18.8	-1700.8	48.5	2.1	-28.3
41ST	116.01	-4.4	-91.2	72	178	-61.4	-511.4	17	-1	23.2	-1609.7	43.5	2.0	-26.8
42ND	119.01	-4.5	-91.7	74	178	-61.5	-514.3	17	-1	27.7	-1518.0	38.8	2.0	-25.2
43RD	122.01	-4.6	-92.2	76	178	-60.7	-517.1	17	-1	32.4	-1425.8	34.4	1.9	-23.7
44TH	125.01	-4.5	-91.9	78	178	-57.4	-515.3	17	-1	36.9	-1333.9	30.3	1.8	-22.1
45TH	128.01	-4.2	-91.6	81	178	-52.3	-513.6	17	-1	41.1	-1242.3	26.4	1.6	-20.5
46TH	131.01	-3.8	-91.2	83	178	-46.5	-511.8	17	-1	44.9	-1151.1	22.8	1.5	-19.0
47TH	134.01	-3.4	-90.9	85	178	-39.4	-510.0	17	-1	48.3	-1060.2	19.3	1.4	-17.5
48TH	137.01	-2.7	-90.6	87	178	-31.5	-508.2	17	-1	51.0	-969.6	16.5	1.2	-15.9
48TH	137.01	-2.0	-90.3	89	178	-22.6	-506.5	17	-0	53.0	-879.3	13.7	1.1	-14.4
49TH	140.01	-1.0	-89.7	92	178	-10.8	-503.1	17	-0	54.0	-789.6	11.2	.9	-12.9
50TH	143.01	1.7	-175.3	190	357	8.8	-491.6	17	0	52.4	-614.3	7.0	.6	-10.0
51ST	149.01	52.4	-614.3	800	1351	65.4	-454.6	16	1	0.0	0.0	0.0	0.0	0.0
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 250

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-282.9	-4653.8	433.1	-32.0	-92.0
5TH	8.00	0.8	-175.8	152	475	57.9	-369.8	22	1	-291.7	-4478.0	396.6	-29.7	-88.0
6TH	11.00	2.4	-65.1	57	178	41.8	-365.0	22	1	-294.1	-4412.9	383.2	-28.8	-86.6
7TH	14.00	1.9	-64.6	57	178	33.0	-362.4	22	1	-295.9	-4348.3	370.1	-27.9	-85.2
8TH	17.00	1.4	-64.2	57	178	24.2	-359.8	22	0	-297.3	-4284.1	357.2	-27.0	-83.8
9TH	20.00	.9	-63.7	57	178	15.4	-357.2	22	0	-298.2	-4220.5	344.4	-26.1	-82.4
10TH	23.00	.4	-63.2	57	178	6.6	-354.6	22	0	-298.6	-4157.2	331.8	-25.3	-81.0
11TH	26.00	-.1	-62.8	57	178	-2.2	-352.0	22	-0	-298.4	-4094.5	319.5	-24.4	-79.6
12TH	29.00	-.6	-62.3	57	178	-11.0	-349.4	22	-0	-297.8	-4032.2	307.3	-23.5	-78.3
13TH	32.00	-.9	-62.4	57	178	-15.9	-350.2	22	-0	-296.9	-3969.8	295.3	-22.6	-76.9
14TH	35.00	-1.1	-63.1	57	178	-20.1	-354.1	22	-0	-295.8	-3906.6	283.4	-21.7	-75.6
15TH	38.00	-1.4	-63.8	57	178	-24.4	-358.1	22	-0	-294.4	-3842.8	271.8	-20.8	-74.2
16TH	41.00	-1.6	-64.6	57	178	-28.6	-362.1	22	-1	-292.8	-3778.2	260.4	-19.9	-72.8
17TH	44.00	-1.9	-65.3	57	178	-32.9	-366.1	22	-1	-290.9	-3713.0	249.1	-19.0	-71.4
18TH	47.00	-2.1	-66.0	57	178	-37.1	-370.0	22	-1	-288.8	-3647.0	238.1	-18.2	-69.9
19TH	50.00	-2.4	-66.7	57	178	-41.4	-374.0	22	-1	-286.4	-3580.3	227.3	-17.3	-68.5
20TH	53.00	-2.6	-67.4	57	178	-45.6	-378.0	22	-1	-283.8	-3512.9	216.6	-16.4	-67.0
21ST	56.00	-2.9	-68.1	57	178	-50.8	-382.2	22	-1	-280.9	-3444.8	206.2	-15.6	-65.5
22ND	59.00	-3.3	-69.7	57	178	-57.5	-391.2	22	-1	-277.6	-3375.0	196.0	-14.8	-64.0
23RD	62.00	-3.7	-71.3	57	178	-64.2	-400.2	21	-1	-274.0	-3303.7	185.9	-13.9	-62.5
24TH	65.00	-4.0	-72.9	57	178	-70.8	-409.1	21	-1	-269.9	-3230.8	176.1	-13.1	-60.9
25TH	68.00	-4.4	-74.5	57	178	-77.5	-418.1	21	-1	-265.5	-3156.2	166.6	-12.3	-59.3
26TH	71.00	-4.8	-76.1	57	178	-84.2	-427.1	21	-1	-260.7	-3080.1	157.2	-11.5	-57.7
27TH	74.00	-5.2	-77.7	57	178	-90.9	-436.1	21	-1	-255.5	-3002.3	148.1	-10.8	-56.1
28TH	77.00	-5.6	-79.3	57	178	-97.5	-445.0	21	-1	-250.0	-2923.0	139.2	-10.0	-54.5
		-5.9	-80.9	57	178	-104.2	-454.0	20	-1					

TABLE 7. SHEAR AND MOMENT DIAGRAMS ;
WIND DIRECTION 250 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-6.5	-82.7	57	178	-113.5	-463.8	20	-2	-244.0	-2842.1	130.5	-9.3	-52.8
30TH	83.00	-7.0	-84.6	57	178	-123.0	-474.3	20	-2	-237.6	-2759.4	122.1	-8.5	-51.2
31ST	86.00	-7.6	-86.4	57	178	-132.5	-484.8	20	-2	-230.6	-2674.8	114.0	-7.8	-49.5
32ND	89.00	-8.1	-88.3	57	178	-142.0	-495.2	20	-2	-223.0	-2588.4	106.1	-7.2	-47.7
33RD	92.00	-8.6	-90.2	57	178	-151.6	-505.7	19	-2	-214.9	-2500.1	98.5	-6.5	-46.0
34TH	95.00	-9.4	-92.0	58	178	-160.4	-516.2	19	-2	-206.3	-2409.9	91.1	-5.9	-44.2
35TH	98.00	-10.1	-93.9	61	178	-167.5	-526.6	19	-2	-196.9	-2317.9	84.0	-5.3	-42.5
36TH	101.00	-10.5	-94.7	63	178	-167.4	-531.4	19	-2	-186.8	-2224.0	77.2	-4.7	-40.7
37TH	104.00	-10.9	-95.4	65	178	-167.5	-534.9	19	-2	-176.3	-2129.3	70.7	-4.1	-38.9
38TH	107.00	-11.3	-96.0	67	178	-167.8	-538.4	18	-2	-165.4	-2033.9	64.4	-3.6	-37.1
39TH	110.01	-11.7	-96.6	69	178	-168.4	-541.9	18	-2	-154.1	-1937.9	58.5	-3.1	-35.3
40TH	113.01	-12.1	-97.2	72	178	-169.2	-545.3	18	-2	-142.4	-1841.3	52.8	-2.7	-33.5
41ST	116.01	-12.6	-97.8	74	178	-170.1	-548.8	18	-2	-130.3	-1744.1	47.4	-2.3	-31.7
42ND	119.01	-12.9	-98.4	76	178	-169.3	-552.1	18	-2	-117.7	-1646.3	42.3	-1.9	-29.9
43RD	122.01	-12.9	-98.3	78	178	-164.4	-551.6	18	-2	-104.9	-1547.8	37.5	-1.6	-28.1
44TH	125.01	-12.6	-98.2	81	178	-156.7	-551.0	18	-2	-92.0	-1449.5	33.0	-1.3	-26.3
45TH	128.01	-12.2	-98.1	83	178	-147.4	-550.4	18	-2	-79.4	-1351.3	28.8	-1.0	-24.5
46TH	131.01	-11.5	-98.0	85	178	-135.9	-549.8	18	-2	-67.2	-1253.1	24.9	-.8	-22.7
47TH	134.01	-10.7	-97.9	87	178	-122.8	-549.3	18	-2	-55.6	-1155.1	21.3	-.6	-21.0
48TH	137.01	-9.7	-97.8	89	178	-108.1	-548.7	18	-2	-44.9	-1057.2	18.0	-.5	-19.2
49TH	140.01	-8.6	-97.4	92	178	-93.4	-546.2	18	-2	-35.3	-959.4	15.0	-.4	-17.4
50TH	143.01	-13.9	-190.6	190	357	-73.1	-534.5	18	-1	-26.7	-862.0	12.2	-.3	-15.6
51ST	149.01	-12.8	-671.4	800	1351	-16.0	-496.9	18	-0	-12.8	-671.4	7.6	-.1	-12.2
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 260 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-505.4	-5330.1	478.0	-50.0	-108.7
5TH	8.00	6.8	-214.3	152	475	44.9	-450.7	22	1	-512.2	-5115.8	436.2	-45.9	-104.0
6TH	11.00	.7	-79.9	57	178	12.8	-448.1	22	0	-512.9	-5035.9	421.0	-44.4	-102.2
7TH	14.00	-1.3	-79.6	57	178	-4.8	-446.7	22	-0	-512.6	-4956.3	406.0	-42.9	-100.4
8TH	17.00	-1.3	-79.4	57	178	-22.3	-445.3	22	-0	-511.4	-4876.9	391.3	-41.3	-98.7
9TH	20.00	-2.3	-79.1	57	178	-39.9	-443.9	22	-1	-509.1	-4797.7	376.7	-39.8	-97.0
10TH	23.00	-3.3	-78.9	57	178	-57.4	-442.5	22	-1	-505.8	-4718.9	362.5	-38.3	-95.3
11TH	26.00	-4.3	-78.6	57	178	-74.9	-441.1	22	-1	-501.5	-4640.2	348.4	-36.8	-93.6
12TH	29.00	-5.3	-78.4	57	178	-92.5	-439.7	21	-1	-496.3	-4561.8	334.6	-35.3	-91.9
13TH	32.00	-5.9	-78.9	57	178	-103.8	-442.6	21	-2	-490.4	-4482.9	321.1	-33.8	-90.2
14TH	35.00	-6.5	-80.1	57	178	-114.2	-449.5	21	-2	-483.9	-4402.8	307.7	-32.3	-88.5
15TH	38.00	-7.1	-81.4	57	178	-124.5	-456.5	21	-2	-476.8	-4321.4	294.6	-30.9	-86.7
16TH	41.00	-7.7	-82.6	57	178	-134.8	-463.5	21	-2	-469.1	-4238.8	281.8	-29.5	-85.0
17TH	44.00	-8.3	-83.9	57	178	-145.2	-470.4	21	-2	-460.8	-4154.9	269.2	-28.1	-83.2
18TH	47.00	-8.9	-85.1	57	178	-155.5	-477.4	21	-2	-451.9	-4069.8	256.9	-26.7	-81.4
19TH	50.00	-9.5	-86.4	57	178	-165.8	-484.4	21	-2	-442.5	-3983.5	244.8	-25.4	-79.6
20TH	53.00	-10.0	-87.6	57	178	-176.1	-491.3	21	-2	-432.4	-3895.9	233.0	-24.1	-77.8
21ST	56.00	-10.5	-88.8	57	178	-183.4	-498.2	21	-2	-422.0	-3807.0	221.4	-22.8	-76.0
22ND	59.00	-10.6	-89.8	57	178	-185.7	-504.0	20	-2	-411.4	-3717.2	210.1	-21.5	-74.1
23RD	59.00	-10.7	-90.9	57	178	-188.0	-509.7	20	-2	-400.7	-3626.3	199.1	-20.3	-72.2
24TH	62.00	-10.8	-91.9	57	178	-190.3	-515.4	20	-2	-389.8	-3534.4	188.4	-19.1	-70.3
25TH	65.00	-11.0	-92.9	57	178	-192.6	-521.1	20	-2	-378.9	-3441.5	177.9	-18.0	-68.4
26TH	68.00	-11.1	-93.9	57	178	-194.9	-526.9	20	-2	-367.8	-3347.6	167.7	-16.8	-66.5
27TH	71.00	-11.2	-95.0	57	178	-197.2	-532.6	20	-2	-356.5	-3252.6	157.8	-15.8	-64.5
28TH	74.00	-11.4	-96.0	57	178	-199.6	-538.3	20	-2	-345.1	-3156.7	148.2	-14.7	-62.6
	77.00	-11.5	-97.0	57	178	-201.9	-544.0	20	-2					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 260

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		FLOOR (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-11.5	-97.8	57	178	-200.9	-548.7	20	-2	-333.6	-3059.7	138.9	-13.7	-60.6
30TH	83.00	-11.4	-98.5	57	178	-199.7	-552.5	20	-2	-322.2	-2961.9	129.8	-12.7	-58.6
31ST	86.00	-11.3	-99.2	57	178	-198.5	-556.3	20	-2	-310.8	-2863.4	121.1	-11.8	-56.6
32ND	89.00	-11.2	-99.9	57	178	-197.2	-560.1	20	-2	-299.5	-2764.2	112.7	-10.8	-54.6
33RD	92.00	-11.2	-100.5	57	178	-196.0	-564.0	20	-2	-288.2	-2664.3	104.5	-10.0	-52.6
34TH	95.00	-11.4	-101.2	58	178	-195.7	-567.8	20	-2	-277.1	-2563.8	96.7	-9.1	-50.6
35TH	98.00	-11.9	-101.9	61	178	-196.2	-571.6	20	-2	-265.7	-2462.5	89.1	-8.3	-48.5
36TH	101.00	-12.4	-102.2	63	178	-197.0	-573.3	20	-2	-253.8	-2360.6	81.9	-7.5	-46.5
37TH	104.00	-12.8	-102.4	65	178	-197.6	-574.4	20	-2	-241.4	-2258.4	75.0	-6.8	-44.5
38TH	107.00	-13.3	-102.6	67	178	-198.0	-575.6	19	-3	-228.6	-2156.0	68.4	-6.1	-42.4
39TH	110.01	-13.8	-102.8	69	178	-198.4	-576.6	19	-3	-215.3	-2053.4	62.0	-5.4	-40.4
40TH	113.01	-14.2	-103.0	72	178	-198.6	-577.9	19	-3	-201.5	-1950.6	56.0	-4.8	-38.4
41ST	116.01	-14.7	-103.2	74	178	-198.8	-579.1	19	-3	-187.3	-1847.5	50.3	-4.2	-36.4
42ND	119.01	-15.0	-103.4	76	178	-196.7	-580.2	19	-3	-172.6	-1744.3	44.9	-3.7	-34.4
43RD	122.01	-14.9	-103.5	78	178	-190.2	-580.3	19	-3	-157.6	-1640.9	39.9	-3.2	-32.3
44TH	125.01	-14.6	-103.5	81	178	-181.0	-580.5	19	-3	-142.8	-1537.4	35.1	-2.7	-30.3
45TH	128.01	-14.1	-103.5	83	178	-170.4	-580.6	19	-3	-128.2	-1433.9	30.6	-2.3	-28.3
46TH	131.01	-13.4	-103.5	85	176	-157.9	-580.8	19	-2	-114.1	-1330.4	26.5	-1.9	-26.3
47TH	134.01	-12.5	-103.6	87	178	-143.9	-580.9	19	-2	-100.7	-1226.9	22.7	-1.6	-24.3
48TH	137.01	-11.5	-103.6	89	178	-128.4	-581.1	19	-2	-88.1	-1123.3	19.1	-1.3	-22.3
49TH	140.01	-10.6	-103.2	92	178	-115.8	-579.1	19	-2	-76.7	-1019.7	15.9	-1.1	-20.3
50TH	143.01	-19.2	-202.2	190	357	-101.3	-567.0	19	-2	-66.0	-916.5	13.0	-.9	-18.3
51ST	149.01	-46.8	-714.3	800	1351	-58.5	-528.7	20	-1	-46.8	-714.3	8.1	-.5	-14.3
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 270

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

CUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-172.5	-5253.7	472.2	-18.8	-110.9
5TH	8.00	11.7	-207.1	157	475	73.5	-435.6	22	1	-183.6	-5046.6	431.0	-17.3	-106.3
6TH	11.00	2.8	-77.4	57	178	49.0	-433.9	22	1	-186.4	-4969.2	416.0	-16.8	-104.5
7TH	14.00	2.0	-77.2	57	178	35.6	-433.0	22	1	-188.5	-4892.0	401.2	-16.2	-102.8
8TH	17.00	1.3	-77.0	57	178	22.2	-432.0	22	0	-189.7	-4815.0	386.7	-15.6	-101.1
9TH	20.00	.5	-76.9	57	178	8.8	-431.1	22	0	-190.2	-4738.2	372.3	-15.1	-99.4
10TH	23.00	-.3	-76.7	57	178	-4.6	-430.2	22	-0	-190.0	-4661.5	358.2	-14.5	-97.7
11TH	26.00	-1.0	-76.5	57	178	-18.0	-429.2	22	-0	-188.9	-4584.9	344.4	-13.9	-96.1
12TH	29.00	-1.8	-76.4	57	178	-31.4	-428.3	22	-1	-187.1	-4508.6	330.7	-13.4	-94.4
13TH	32.00	-2.1	-77.0	57	178	-37.5	-431.9	22	-1	-185.0	-4431.6	317.3	-12.8	-92.7
14TH	35.00	-2.4	-78.4	57	178	-42.3	-439.8	22	-1	-182.6	-4353.2	304.1	-12.3	-91.0
15TH	38.00	-2.7	-79.8	57	178	-47.1	-447.6	21	-1	-179.9	-4273.4	291.2	-11.7	-89.3
16TH	41.00	-3.0	-81.2	57	178	-51.9	-455.5	21	-1	-177.0	-4192.2	278.5	-11.2	-87.6
17TH	44.00	-3.2	-82.6	57	178	-56.7	-463.3	21	-1	-173.7	-4109.6	266.0	-10.7	-85.8
18TH	47.00	-3.5	-84.0	57	178	-61.4	-471.2	21	-1	-170.2	-4025.6	253.8	-10.1	-84.0
19TH	50.00	-3.8	-85.4	57	178	-66.2	-479.0	21	-1	-166.4	-3940.2	241.9	-9.6	-82.2
20TH	53.00	-4.0	-86.8	57	178	-71.0	-486.9	21	-1	-162.4	-3853.4	230.2	-9.1	-80.4
21ST	56.00	-4.2	-88.2	57	178	-74.1	-494.6	21	-1	-158.2	-3765.2	218.8	-8.7	-78.5
22ND	59.00	-4.3	-89.2	57	178	-74.7	-500.1	21	-1	-153.9	-3676.0	207.6	-8.2	-76.6
23RD	62.00	-4.3	-90.1	57	178	-75.2	-505.6	21	-1	-149.6	-3585.9	196.7	-7.7	-74.7
24TH	65.00	-4.3	-91.1	57	178	-75.7	-511.1	21	-1	-145.3	-3494.8	186.1	-7.3	-72.8
25TH	68.00	-4.3	-92.1	57	178	-76.2	-516.6	21	-1	-141.0	-3402.6	175.7	-6.9	-70.9
26TH	71.00	-4.4	-93.1	57	178	-76.7	-522.1	21	-1	-136.6	-3309.6	165.7	-6.5	-69.0
27TH	74.00	-4.4	-94.1	57	178	-77.2	-527.6	21	-1	-132.2	-3215.5	155.9	-6.1	-67.0
28TH	77.00	-4.4	-95.0	57	178	-77.7	-533.1	21	-1	-127.8	-3120.4	146.4	-5.7	-65.0
		-4.5	-96.0	57	178	-78.2	-538.6	21	-1					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 270

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									-123.3	-3024.4	137.2	-5.3	-63.9
30TH	83.00	-4.4	-96.9	57	178	-77.2	-543.3	21	-1	-118.9	-2927.6	128.2	-4.9	-61.0
31ST	86.00	-4.3	-97.6	57	178	-76.1	-547.3	21	-1	-114.6	-2830.0	119.6	-4.6	-59.0
32ND	89.00	-4.3	-98.3	57	178	-75.0	-551.4	21	-1	-110.3	-2731.7	111.3	-4.2	-57.0
33RD	92.00	-4.2	-99.0	57	178	-73.9	-555.5	21	-1	-106.1	-2632.7	103.2	-3.9	-54.9
34TH	95.00	-4.1	-99.7	57	178	-72.8	-559.5	21	-1	-101.9	-2532.9	95.5	-3.6	-52.8
35TH	98.00	-4.2	-100.5	58	178	-71.9	-563.6	21	-1	-97.8	-2432.4	88.0	-3.3	-50.8
36TH	101.00	-4.3	-101.2	61	178	-71.2	-567.6	21	-1	-93.4	-2331.2	80.9	-3.0	-48.7
37TH	104.00	-4.4	-101.3	63	178	-70.6	-568.5	21	-1	-89.0	-2229.9	74.0	-2.7	-46.6
38TH	107.00	-4.5	-101.4	65	178	-69.9	-568.5	21	-1	-84.5	-2128.5	67.5	-2.5	-44.5
39TH	110.01	-4.6	-101.4	67	178	-69.1	-568.6	21	-1	-79.8	-2027.2	61.3	-2.2	-42.4
40TH	113.01	-4.7	-101.4	69	178	-68.3	-568.7	21	-1	-75.1	-1925.8	55.3	-2.0	-40.3
41ST	116.01	-4.8	-101.4	72	178	-67.3	-568.8	21	-1	-70.3	-1824.4	49.7	-1.8	-38.2
42ND	119.01	-4.9	-101.4	74	178	-66.2	-568.8	21	-1	-65.4	-1723.0	44.4	-1.6	-36.1
43RD	122.01	-4.9	-101.4	76	178	-64.6	-569.0	21	-1	-60.5	-1621.5	39.4	-1.4	-34.0
44TH	125.01	-4.8	-101.7	78	178	-61.8	-570.5	21	-1	-55.6	-1519.8	34.7	-1.2	-31.9
45TH	128.01	-4.7	-102.0	81	178	-58.4	-572.0	21	-1	-50.9	-1417.8	30.2	-1.1	-29.8
46TH	131.01	-4.5	-102.3	83	178	-54.6	-573.6	21	-1	-46.4	-1315.6	26.1	-0.9	-27.7
47TH	134.01	-4.3	-102.5	85	178	-50.2	-575.1	21	-1	-42.2	-1213.0	22.4	-0.8	-25.6
48TH	137.01	-4.0	-102.8	87	178	-45.5	-576.6	21	-1	-38.2	-1110.2	18.9	-0.7	-23.5
49TH	140.01	-3.6	-103.1	89	178	-40.4	-578.2	21	-1	-34.6	-1007.2	15.7	-0.5	-21.3
50TH	143.01	-3.4	-102.9	92	178	-37.3	-576.9	21	-1	-31.2	-904.3	12.8	-0.4	-19.2
51ST	149.01	-6.7	-200.9	190	357	-35.3	-562.5	21	-1	-24.5	-703.4	8.0	-0.3	-15.0
TOP	171.76	-24.5	-703.4	800	1351	-30.6	-520.6	21	-1	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 280

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	.3	-181.9	152	475	2.2	-382.7	23	0	-33.0	-4825.5	442.9	-4.4	-108.4
5TH	8.00	-.0	-69.3	57	178	-.3	-389.0	23	-0	-33.3	-4643.6	405.0	-4.2	-104.2
6TH	11.00	-.1	-70.0	57	178	-1.7	-392.4	23	-0	-33.3	-4574.2	391.2	-4.1	-102.6
7TH	14.00	-.2	-70.6	57	178	-3.1	-395.8	23	-0	-33.2	-4504.3	377.6	-4.0	-101.0
8TH	17.00	-.3	-71.2	57	178	-4.5	-399.3	23	-0	-33.0	-4433.7	364.2	-3.9	-99.4
9TH	20.00	-.3	-71.8	57	178	-5.8	-402.7	23	-0	-32.8	-4362.5	351.0	-3.8	-97.8
10TH	23.00	-.4	-72.4	57	178	-7.2	-406.1	23	-0	-32.4	-4290.7	338.0	-3.7	-96.1
11TH	26.00	-.5	-73.0	57	178	-8.6	-409.5	23	-0	-32.0	-4218.3	325.3	-3.6	-94.5
12TH	29.00	-.5	-73.3	57	178	-8.7	-411.2	23	-0	-31.5	-4145.3	312.7	-3.5	-92.8
13TH	32.00	-.5	-73.3	57	178	-8.6	-411.2	23	-0	-31.0	-4072.0	300.4	-3.4	-91.2
14TH	35.00	-.5	-73.3	57	178	-8.5	-411.2	22	-0	-30.5	-3998.7	288.3	-3.3	-89.5
15TH	38.00	-.5	-73.3	57	178	-8.4	-411.3	22	-0	-30.0	-3925.4	276.4	-3.2	-87.9
16TH	41.00	-.5	-73.3	57	178	-8.3	-411.3	22	-0	-29.6	-3852.1	264.7	-3.1	-86.3
17TH	44.00	-.5	-73.3	57	178	-8.3	-411.3	22	-0	-29.1	-3778.7	253.3	-3.0	-84.6
18TH	47.00	-.5	-73.3	57	178	-8.1	-411.3	22	-0	-28.6	-3705.4	242.0	-3.0	-83.0
19TH	50.00	-.5	-73.3	57	178	-8.0	-411.3	22	-0	-28.2	-3632.1	231.0	-2.9	-81.3
20TH	53.00	-.5	-73.3	57	178	-7.9	-411.4	22	-0	-27.7	-3558.8	220.3	-2.8	-79.7
21ST	56.00	-.4	-73.4	57	178	-7.6	-411.6	22	-0	-27.3	-3485.4	209.7	-2.7	-78.1
22ND	59.00	-.4	-74.4	57	178	-6.8	-417.0	22	-0	-26.9	-3411.0	199.3	-2.6	-76.4
23RD	62.00	-.3	-75.3	57	178	-6.1	-422.4	22	-0	-26.6	-3335.7	189.2	-2.5	-74.7
24TH	65.00	-.3	-76.3	57	178	-5.4	-427.9	22	-0	-26.2	-3259.4	179.3	-2.5	-73.0
25TH	68.00	-.3	-77.2	57	178	-4.7	-433.3	22	-0	-26.0	-3182.2	169.7	-2.4	-71.3
26TH	71.00	-.2	-78.2	57	178	-4.0	-438.7	22	-0	-25.7	-3104.0	160.2	-2.3	-69.6
27TH	74.00	-.2	-79.2	57	178	-3.3	-444.1	22	-0	-25.6	-3024.8	151.0	-2.2	-67.8
28TH	77.00	-.1	-80.1	57	178	-2.6	-449.5	22	-0	-25.4	-2944.7	142.1	-2.1	-66.0
		-.1	-81.1	57	178	-1.9	-454.9	22	-0					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 280

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-1.1	-82.4	57	178	-1.0	-462.1	22	-0	-25.3	-2863.6	133.4	-2.1	-64.2
30TH	83.00	-1.0	-83.9	57	178	-1.2	-470.6	22	-0	-25.2	-2781.2	124.9	-2.0	-62.4
31ST	86.00	1.0	-85.4	57	178	1.7	-479.1	22	0	-25.2	-2697.3	116.7	-1.9	-60.5
32ND	89.00	1.1	-86.9	57	178	1.6	-487.6	22	0	-25.3	-2611.9	108.7	-1.8	-58.6
33RD	92.00	1.1	-88.4	57	178	2.4	-496.1	22	0	-25.4	-2525.0	101.0	-1.8	-56.7
34TH	95.00	1.2	-90.0	58	178	3.4	-504.6	22	0	-25.5	-2436.5	93.6	-1.7	-54.7
35TH	98.00	1.2	-91.5	61	178	4.1	-513.1	22	0	-25.7	-2346.5	86.4	-1.6	-52.7
36TH	101.00	1.2	-92.3	63	178	3.8	-517.8	22	0	-25.9	-2255.1	79.5	-1.5	-50.6
37TH	104.00	1.2	-93.0	65	178	3.6	-521.7	22	0	-26.2	-2162.7	72.9	-1.5	-48.6
38TH	107.00	1.2	-93.7	67	178	3.3	-525.5	22	0	-26.4	-2069.7	66.5	-1.4	-46.5
39TH	110.01	1.2	-94.4	69	178	3.0	-529.3	22	0	-26.6	-1976.1	60.5	-1.3	-44.4
40TH	113.01	1.2	-95.1	72	178	2.7	-533.2	22	0	-26.9	-1881.7	54.7	-1.2	-42.3
41ST	116.01	1.2	-95.7	74	178	2.4	-537.0	22	0	-27.0	-1786.6	49.2	-1.1	-40.2
42ND	119.01	1.2	-96.4	76	178	2.1	-540.9	22	0	-27.2	-1690.9	43.9	-1.1	-38.0
43RD	122.01	1.1	-97.2	78	178	1.5	-545.1	22	0	-27.4	-1594.5	39.0	-1.0	-35.9
44TH	125.01	1.0	-97.9	81	178	1.5	-549.2	22	0	-27.5	-1497.3	34.4	-0.9	-33.7
45TH	128.01	-1.1	-98.7	83	178	-1.7	-553.4	22	-0	-27.5	-1399.4	30.0	-0.8	-31.6
46TH	131.01	-1.2	-99.4	85	178	-2.1	-557.6	22	-0	-27.5	-1300.7	26.0	-0.7	-29.4
47TH	134.01	-1.3	-100.2	87	178	-3.9	-561.8	22	-0	-27.3	-1201.3	22.2	-0.6	-27.2
48TH	137.01	-1.5	-100.9	89	178	-5.8	-565.9	22	-0	-27.0	-1101.1	18.8	-0.6	-25.0
49TH	140.01	-1.8	-101.1	92	178	-8.6	-567.0	22	-0	-26.4	-1000.2	15.6	-0.5	-22.7
50TH	143.01	-2.5	-101.1	190	357	-13.4	-555.5	22	-0	-25.7	-899.2	12.8	-0.4	-20.5
51ST	149.01	-23.1	-701.1	800	1351	-28.9	-518.9	23	-1	-23.1	-701.1	8.0	-0.3	-16.1
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 290

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00	4.4	-183.1	152	475	29.2	-385.1	23	1	110.9	-4891.5	441.0	11.2	-111.9
5TH	8.00	1.2	-70.1	57	178	20.4	-393.2	23	0	106.4	-4708.5	402.6	10.3	-107.7
6TH	11.00	.9	-70.9	57	178	15.6	-397.6	23	0	105.3	-4638.4	388.6	10.0	-106.1
7TH	14.00	.6	-71.7	57	178	10.7	-402.0	23	0	104.4	-4567.5	374.7	9.7	-104.5
8TH	17.00	.3	-72.5	57	178	5.9	-406.4	23	0	103.8	-4495.8	361.2	9.4	-102.9
9TH	20.00	.1	-73.2	57	178	1.1	-410.9	22	0	103.4	-4423.4	347.8	9.0	-101.2
10TH	23.00	-.2	-74.0	57	178	-3.8	-415.3	22	-0	103.4	-4350.1	334.6	8.7	-99.6
11TH	26.00	-.5	-74.8	57	178	-8.6	-419.7	22	-0	103.6	-4276.1	321.7	8.4	-97.9
12TH	29.00	-.4	-75.6	57	178	-7.3	-423.9	22	-0	104.1	-4201.2	309.0	8.1	-96.3
13TH	32.00	-.3	-76.3	57	178	-5.0	-427.9	22	-0	104.5	-4125.7	296.5	7.8	-94.6
14TH	35.00	-.2	-77.0	57	178	-2.7	-432.0	22	-0	104.8	-4049.4	284.2	7.5	-92.9
15TH	38.00	-.0	-77.7	57	178	-.4	-436.0	22	-0	104.9	-3972.4	272.2	7.2	-91.2
16TH	41.00	.1	-78.4	57	178	2.0	-440.0	22	0	105.0	-3894.6	260.4	6.9	-89.5
17TH	44.00	.2	-79.2	57	178	4.3	-444.0	22	0	104.9	-3816.2	248.8	6.5	-87.8
18TH	47.00	.4	-79.9	57	178	6.6	-448.1	22	0	104.6	-3737.0	237.5	6.2	-86.0
19TH	50.00	.5	-80.6	57	178	8.9	-452.1	22	0	104.2	-3657.2	226.4	5.9	-84.3
20TH	53.00	.7	-81.3	57	178	11.7	-456.1	22	0	103.7	-3576.6	215.5	5.6	-82.5
21ST	56.00	.9	-82.0	57	178	15.1	-460.0	22	0	103.1	-3495.2	204.9	5.3	-80.7
22ND	59.00	1.1	-82.7	57	178	18.6	-463.9	22	0	102.2	-3413.2	194.6	5.0	-78.9
23RD	62.00	1.3	-83.4	57	178	22.0	-467.8	22	0	101.1	-3330.5	184.4	4.7	-77.1
24TH	65.00	1.5	-84.1	57	178	25.4	-471.8	22	0	99.9	-3247.1	174.6	4.4	-75.2
25TH	68.00	1.6	-84.8	57	178	28.9	-475.7	22	0	98.4	-3163.0	165.0	4.1	-73.4
26TH	71.00	1.8	-85.5	57	178	32.3	-479.6	22	0	96.8	-3078.2	155.6	3.8	-71.5
27TH	74.00	2.0	-86.2	57	178	35.8	-483.5	22	1	94.9	-2992.7	146.5	3.5	-69.6
28TH	77.00	2.2	-86.9	57	178	39.2	-487.4	22	1	92.9	-2906.5	137.6	3.2	-67.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 290 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	2.4	-87.6	57	170	42.3	-491.5	22	1	90.7	-2819.6	129.0	2.9	-65.7
30TH	83.00	2.6	-88.4	57	170	45.3	-495.7	22	1	88.3	-2732.0	120.7	2.7	-63.8
31ST	86.00	2.8	-89.1	57	170	48.4	-499.9	22	1	85.7	-2643.6	112.7	2.4	-61.8
32ND	89.00	2.9	-89.9	57	170	51.5	-504.1	23	1	82.9	-2554.5	104.9	2.2	-59.8
33RD	92.00	3.1	-90.6	57	170	54.5	-508.4	23	1	80.0	-2464.6	97.3	1.9	-57.8
34TH	95.00	3.4	-91.4	58	170	57.7	-512.6	23	1	76.9	-2374.0	90.1	1.7	-55.7
35TH	98.00	3.7	-92.1	61	170	61.2	-516.8	23	1	73.5	-2282.6	83.1	1.5	-53.6
36TH	101.00	4.1	-92.7	63	170	65.1	-519.7	23	1	69.8	-2190.5	76.4	1.2	-51.6
37TH	104.00	4.5	-93.1	65	170	69.1	-522.3	23	1	65.7	-2097.6	69.9	1.0	-49.5
38TH	107.00	4.9	-93.6	67	170	72.9	-524.9	23	1	61.2	-2004.7	63.8	.8	-47.3
39TH	110.01	5.3	-94.0	69	170	76.8	-527.5	23	1	56.3	-1911.1	57.9	.7	-45.2
40TH	113.01	5.8	-94.5	72	170	80.6	-530.1	23	1	51.0	-1817.1	52.3	.5	-43.0
41ST	116.01	6.2	-95.0	74	170	84.3	-532.7	23	2	45.2	-1722.6	47.0	.4	-40.9
42ND	119.01	6.5	-95.4	76	170	85.5	-535.3	23	2	39.0	-1627.6	42.0	.2	-38.7
43RD	122.01	6.4	-95.7	78	170	81.8	-537.0	23	2	32.5	-1532.1	37.2	.1	-36.5
44TH	125.01	6.2	-96.0	81	170	76.5	-538.7	23	1	26.1	-1436.4	32.8	.0	-34.3
45TH	128.01	5.8	-96.3	83	170	70.4	-540.4	23	1	19.9	-1340.4	28.6	-.0	-32.1
46TH	131.01	5.4	-96.6	85	170	63.1	-542.0	23	1	14.1	-1244.0	24.8	-.1	-29.8
47TH	134.01	4.8	-96.9	87	170	54.8	-543.7	23	1	8.8	-1147.4	21.2	-.1	-27.6
48TH	137.01	4.1	-97.2	89	170	45.7	-545.4	23	1	4.0	-1050.5	17.9	-.1	-25.3
49TH	140.01	3.4	-97.1	92	170	37.3	-544.5	23	1	-.1	-953.2	14.9	-.1	-23.1
50TH	143.01	4.9	-189.8	190	357	26.0	-532.3	24	1	-3.5	-856.2	12.1	-.1	-20.8
51ST	149.01	-8.5	-666.4	800	1351	-10.6	-493.2	25	-0	-8.5	-666.4	7.6	-.1	-16.3
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 300

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-96.6	-3566.7	340.8	-4.1	-82.4
5TH	8.00	-15.9	-114.0	152	475	-104.6	-239.8	23	-3	-80.7	-3452.7	312.7	-3.4	-79.7
6TH	11.00	-6.0	-44.3	57	178	-104.5	-248.7	23	-3	-74.8	-3408.4	302.5	-3.2	-78.6
7TH	14.00	-6.0	-45.2	57	178	-104.5	-253.6	23	-3	-68.8	-3363.2	292.3	-3.0	-77.6
8TH	17.00	-6.0	-46.1	57	178	-104.5	-258.5	22	-3	-62.8	-3317.1	282.3	-2.8	-76.5
9TH	20.00	-6.0	-47.0	57	178	-104.4	-263.4	22	-3	-56.9	-3270.1	272.4	-2.6	-75.5
10TH	23.00	-5.9	-47.8	57	178	-104.4	-268.3	22	-3	-50.9	-3222.3	262.7	-2.4	-74.4
11TH	26.00	-5.9	-48.7	57	178	-104.4	-273.1	22	-3	-45.0	-3173.6	253.1	-2.3	-73.4
12TH	29.00	-5.9	-49.6	57	178	-104.3	-278.0	21	-3	-39.1	-3124.0	243.6	-2.2	-72.3
13TH	32.00	-5.7	-50.2	57	178	-99.8	-281.5	21	-2	-33.4	-3073.8	234.3	-2.1	-71.2
14TH	35.00	-5.4	-50.6	57	178	-94.4	-283.6	21	-2	-28.0	-3023.3	225.2	-2.0	-70.1
15TH	38.00	-5.1	-50.9	57	178	-89.1	-285.7	21	-2	-22.9	-2972.4	216.2	-1.9	-69.0
16TH	41.00	-4.8	-51.3	57	178	-83.8	-287.8	21	-2	-18.1	-2921.1	207.3	-1.8	-67.9
17TH	44.00	-4.5	-51.7	57	178	-78.5	-289.8	21	-2	-13.7	-2869.4	198.6	-1.8	-66.8
18TH	47.00	-4.2	-52.0	57	178	-73.1	-291.9	22	-2	-9.5	-2817.3	190.1	-1.7	-65.7
19TH	50.00	-3.9	-52.4	57	178	-67.8	-294.0	22	-2	-5.6	-2764.9	181.7	-1.7	-64.6
20TH	53.00	-3.6	-52.8	57	178	-62.5	-296.1	22	-1	-2.1	-2712.1	173.5	-1.7	-63.4
21ST	56.00	-3.3	-53.2	57	178	-57.1	-298.2	22	-1	1.2	-2659.0	165.5	-1.7	-62.3
22ND	59.00	-2.9	-53.6	57	178	-51.5	-300.6	22	-1	4.1	-2605.4	157.6	-1.7	-61.1
23RD	62.00	-2.6	-54.0	57	178	-46.0	-303.0	22	-1	6.8	-2551.4	149.8	-1.7	-59.9
24TH	65.00	-2.3	-54.4	57	178	-40.5	-305.3	22	-1	9.1	-2496.9	142.3	-1.8	-58.7
25TH	68.00	-2.0	-54.9	57	178	-34.9	-307.7	22	-1	11.1	-2442.1	134.9	-1.8	-57.5
26TH	71.00	-1.7	-55.3	57	178	-29.4	-310.1	22	-1	12.7	-2386.8	127.6	-1.8	-56.3
27TH	74.00	-1.4	-55.7	57	178	-23.9	-312.5	22	-1	14.1	-2331.1	120.5	-1.9	-55.1
28TH	77.00	-1.0	-56.1	57	178	-18.3	-314.8	22	-0	15.1	-2274.9	113.6	-1.9	-53.9
		-0.7	-56.6	57	178	-12.8	-317.2	22	-0					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 300

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									15.9	-2218.4	106.9	-1.9	-52.6
30TH	83.00	-.3	-57.5	57	178	-5.2	-322.3	22	-0	16.2	-2160.9	100.3	-2.0	-51.4
31ST	86.00	.1	-58.7	57	178	2.5	-329.5	22	0	16.0	-2102.2	93.9	-2.0	-50.1
32ND	89.00	.6	-60.0	57	178	10.2	-336.6	22	0	15.4	-2042.2	87.7	-2.1	-48.8
33RD	92.00	1.0	-61.3	57	178	18.0	-343.7	22	0	14.4	-1980.9	81.7	-2.1	-47.4
34TH	95.00	1.5	-62.5	57	178	25.7	-350.8	22	1	13.0	-1918.4	75.8	-2.2	-46.0
35TH	98.00	2.0	-63.8	58	178	33.7	-357.9	22	1	11.0	-1854.6	70.2	-2.2	-44.6
36TH	98.00	2.5	-65.1	61	178	41.8	-365.0	22	1	8.5	-1789.5	64.7	-2.2	-43.2
36TH	101.00	3.1	-66.4	63	178	49.0	-372.3	22	1	5.4	-1723.1	59.4	-2.3	-41.8
37TH	104.00	3.6	-67.7	65	178	56.1	-379.5	22	1	1.7	-1655.5	54.4	-2.3	-40.3
38TH	107.00	4.2	-68.9	67	178	63.2	-386.7	22	1					
39TH	110.01	4.9	-70.2	69	178	70.2	-394.0	22	2	-2.5	-1586.5	49.5	-2.3	-38.7
40TH	113.01	5.5	-71.5	72	178	77.3	-401.2	22	2	-7.4	-1516.3	44.8	-2.3	-37.2
41ST	116.01	6.2	-72.8	74	178	84.3	-408.4	22	2	-12.9	-1444.8	40.4	-2.2	-35.6
42ND	119.01	6.7	-74.1	76	178	88.0	-415.6	23	2	-19.1	-1371.9	36.2	-2.2	-33.9
43RD	122.01	6.7	-75.3	78	178	85.4	-422.6	23	2	-25.8	-1297.8	32.2	-2.1	-32.2
44TH	125.01	6.5	-76.6	81	178	80.9	-429.5	23	2	-32.5	-1222.5	28.4	-2.0	-30.5
45TH	128.01	6.2	-77.8	83	178	75.2	-436.5	23	2	-39.0	-1145.9	24.8	-1.9	-28.7
46TH	131.01	5.8	-79.1	85	178	68.1	-443.4	23	2	-45.2	-1068.1	21.5	-1.8	-26.9
47TH	134.01	5.2	-80.3	87	178	59.8	-450.4	23	2	-51.0	-989.1	18.4	-1.6	-25.0
48TH	137.01	4.5	-81.5	89	178	50.3	-457.3	24	1	-56.2	-908.8	15.6	-1.5	-23.1
49TH	140.01	4.5	-81.5	89	178	50.3	-457.3	24	1	-60.7	-827.2	13.0	-1.3	-21.2
50TH	143.01	3.1	-82.2	92	178	34.2	-461.2	24	1	-63.9	-745.0	10.6	-1.1	-19.3
51ST	149.01	1.0	-161.9	190	357	5.0	-454.1	24	0	-64.8	-583.1	6.6	-.7	-15.3
TOP	171.76	-64.8	-583.1	800	1351	-81.0	-431.6	26	-3	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 310

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-953.6	-2625.6	251.2	-97.1	-63.7
5TH	8.00	-25.9	-90.5	152	475	-170.3	-190.3	23	-6	-927.7	-2535.1	230.6	-89.6	-61.5
6TH	11.00	-10.2	-34.8	57	178	-178.9	-195.0	22	-6	-917.5	-2500.3	223.0	-86.8	-60.6
7TH	14.00	-10.5	-35.2	57	178	-183.6	-197.6	22	-6	-907.1	-2465.1	215.6	-84.1	-59.8
8TH	17.00	-10.7	-35.7	57	178	-188.3	-200.2	21	-6	-896.3	-2429.4	208.2	-81.4	-59.0
9TH	20.00	-11.0	-36.1	57	178	-193.0	-202.7	21	-6	-885.3	-2393.3	201.0	-78.7	-58.1
10TH	23.00	-11.3	-36.6	57	178	-197.7	-205.3	21	-6	-874.1	-2356.6	193.9	-76.1	-57.3
11TH	26.00	-11.5	-37.1	57	178	-202.4	-207.9	21	-6	-862.5	-2319.6	186.8	-73.5	-56.5
12TH	29.00	-11.8	-37.5	57	178	-207.0	-210.5	20	-6	-850.7	-2282.1	179.9	-70.9	-55.6
13TH	32.00	-11.9	-37.8	57	178	-208.8	-212.0	20	-6	-838.8	-2244.3	173.2	-68.4	-54.8
14TH	35.00	-12.0	-37.9	57	178	-210.1	-212.6	20	-6	-826.9	-2206.4	166.5	-65.9	-53.9
15TH	38.00	-12.0	-38.0	57	178	-211.3	-213.2	20	-6	-814.8	-2168.3	159.9	-63.4	-53.1
16TH	41.00	-12.1	-38.1	57	178	-212.6	-213.8	21	-7	-802.7	-2130.2	153.5	-61.0	-52.2
17TH	44.00	-12.2	-38.2	57	178	-213.9	-214.4	21	-7	-790.5	-2092.0	147.1	-58.6	-51.4
18TH	47.00	-12.3	-38.3	57	178	-215.1	-215.0	21	-7	-778.2	-2053.7	140.9	-56.3	-50.5
19TH	50.00	-12.3	-38.4	57	178	-216.4	-215.6	21	-7	-765.9	-2015.2	134.8	-53.9	-49.6
20TH	53.00	-12.4	-38.6	57	178	-217.7	-216.3	21	-7	-753.5	-1976.7	128.8	-51.7	-48.7
21ST	56.00	-12.5	-38.7	57	178	-219.6	-216.9	21	-7	-741.0	-1938.0	123.0	-49.4	-47.8
22ND	59.00	-12.7	-38.8	57	178	-222.6	-217.7	21	-7	-728.3	-1899.2	117.2	-47.2	-46.9
23RD	62.00	-12.9	-39.0	57	178	-225.7	-218.5	21	-7	-715.4	-1860.2	111.6	-45.0	-46.0
24TH	65.00	-13.0	-39.1	57	178	-228.7	-219.4	21	-7	-702.4	-1821.1	106.0	-42.9	-45.1
25TH	68.00	-13.2	-39.3	57	178	-231.7	-220.2	21	-7	-689.2	-1781.8	100.6	-40.8	-44.2
26TH	71.00	-13.4	-39.4	57	178	-234.7	-221.1	21	-7	-675.8	-1742.4	95.3	-38.8	-43.2
27TH	74.00	-13.5	-39.6	57	178	-237.7	-221.9	21	-7	-662.3	-1702.9	90.2	-36.8	-42.3
28TH	77.00	-13.7	-39.7	57	178	-240.7	-222.7	21	-7	-648.5	-1663.2	85.1	-34.8	-41.4
		-13.9	-39.9	57	178	-243.7	-223.6	21	-7					

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

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-14.2	-40.5	57	178	-248.3	-226.9	21	-7	-634.7	-1623.3	80.2	-32.9	-40.4
30TH	83.00	-14.4	-41.4	57	178	-253.0	-232.1	21	-7	-620.5	-1582.9	75.4	-31.0	-39.5
31ST	86.00	-14.7	-42.3	57	178	-257.6	-237.2	21	-7	-606.1	-1541.5	70.7	-29.2	-38.5
32ND	89.00	-15.0	-43.2	57	178	-262.3	-242.4	21	-7	-591.4	-1499.2	66.1	-27.4	-37.5
33RD	92.00	-15.2	-44.1	57	178	-267.0	-247.5	21	-7	-576.4	-1456.0	61.7	-25.6	-36.5
34TH	95.00	-15.7	-45.0	58	178	-269.1	-252.6	21	-7	-561.2	-1411.9	57.4	-23.9	-35.5
35TH	98.00	-16.3	-46.0	61	178	-269.2	-257.8	20	-7	-545.5	-1366.8	53.2	-22.2	-34.4
36TH	101.00	-16.8	-46.7	63	178	-267.3	-261.9	20	-7	-529.2	-1320.9	49.2	-20.6	-33.4
37TH	104.00	-17.3	-47.4	65	178	-265.5	-265.7	20	-7	-512.5	-1274.2	45.3	-19.1	-32.3
38TH	107.00	-17.7	-48.0	67	178	-263.7	-269.5	20	-7	-495.2	-1226.8	41.6	-17.6	-31.2
39TH	110.01	-18.2	-48.7	69	178	-261.9	-273.3	20	-8	-477.5	-1178.8	38.0	-16.1	-30.1
40TH	113.01	-18.6	-49.4	72	178	-260.2	-277.2	20	-8	-459.3	-1130.0	34.5	-14.7	-29.0
41ST	116.01	-19.1	-50.1	74	178	-258.4	-281.0	20	-8	-440.7	-1080.6	31.2	-13.3	-27.9
42ND	119.01	-19.5	-50.8	76	178	-255.7	-284.9	20	-8	-421.6	-1030.5	28.0	-12.1	-26.7
43RD	122.01	-19.7	-52.2	78	178	-251.4	-292.7	20	-8	-402.2	-979.7	25.0	-10.8	-25.6
44TH	125.01	-19.9	-53.6	81	178	-247.3	-300.5	21	-8	-382.5	-927.5	22.1	-9.6	-24.3
45TH	128.01	-20.1	-55.0	83	178	-243.3	-308.3	21	-8	-362.6	-874.0	19.4	-8.5	-23.1
46TH	131.01	-20.3	-56.3	85	178	-239.4	-316.0	21	-8	-342.4	-819.0	16.9	-7.5	-21.8
47TH	134.01	-20.5	-57.7	87	178	-235.6	-323.8	21	-8	-322.1	-762.7	14.5	-6.5	-20.4
48TH	137.01	-20.7	-59.1	89	178	-231.8	-331.6	22	-8	-301.6	-704.9	12.3	-5.5	-19.0
49TH	140.01	-21.4	-60.2	92	178	-233.2	-337.6	22	-8	-280.8	-645.8	10.3	-4.7	-17.6
50TH	143.01	-45.8	-120.9	190	357	-241.1	-339.1	22	-8	-259.5	-585.6	8.4	-3.9	-16.1
51ST	149.01	-213.7	-464.7	800	1351	-267.1	-343.9	23	-11	-213.7	-464.7	5.3	-2.4	-13.0
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 320

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-1272.5	-2402.0	225.1	-132.2	-60.3
5TH	8.00	-31.0	-86.1	152	475	-203.9	-181.2	22	-8	-1241.5	-2315.9	206.2	-122.1	-58.1
6TH	11.00	-12.6	-33.0	57	178	-220.3	-185.2	21	-8	-1228.9	-2282.9	199.3	-118.4	-57.3
7TH	14.00	-13.1	-33.4	57	178	-229.3	-187.4	21	-8	-1215.9	-2249.5	192.5	-114.8	-56.5
8TH	17.00	-13.6	-33.8	57	178	-238.3	-189.7	21	-8	-1202.3	-2215.7	185.8	-111.1	-55.7
9TH	20.00	-14.1	-34.2	57	178	-247.3	-191.9	20	-8	-1188.2	-2181.5	179.2	-107.6	-54.9
10TH	23.00	-14.6	-34.6	57	178	-256.3	-194.1	20	-8	-1173.6	-2146.9	172.7	-104.0	-54.1
11TH	26.00	-15.1	-35.0	57	178	-265.3	-196.3	20	-8	-1158.5	-2111.9	166.3	-100.5	-53.2
12TH	29.00	-15.6	-35.4	57	178	-274.3	-198.6	19	-8	-1142.8	-2076.5	160.1	-97.1	-52.4
13TH	32.00	-15.7	-35.6	57	178	-275.1	-199.6	19	-8	-1127.1	-2040.9	153.9	-93.7	-51.6
14TH	35.00	-15.6	-35.6	57	178	-274.5	-199.4	19	-8	-1111.5	-2005.3	147.8	-90.3	-50.8
15TH	38.00	-15.6	-35.5	57	178	-274.0	-199.3	19	-9	-1095.9	-1969.8	141.8	-87.0	-50.0
16TH	41.00	-15.6	-35.5	57	178	-273.4	-199.1	20	-9	-1080.3	-1934.3	136.0	-83.7	-49.1
17TH	44.00	-15.6	-35.5	57	178	-272.8	-199.0	20	-9	-1064.8	-1898.8	130.2	-80.5	-48.3
18TH	47.00	-15.5	-35.4	57	178	-272.3	-198.8	20	-9	-1049.2	-1863.4	124.6	-77.3	-47.5
19TH	50.00	-15.5	-35.4	57	178	-271.7	-198.7	20	-9	-1033.7	-1828.0	119.1	-74.2	-46.6
20TH	53.00	-15.5	-35.4	57	178	-271.1	-198.5	20	-9	-1018.3	-1792.6	113.6	-71.1	-45.8
21ST	56.00	-15.5	-35.4	57	178	-271.7	-198.5	20	-9	-1002.8	-1757.2	108.3	-68.1	-45.0
22ND	59.00	-15.6	-35.7	57	178	-273.9	-200.3	20	-9	-987.2	-1721.5	103.1	-65.1	-44.1
23RD	62.00	-15.7	-36.1	57	178	-276.2	-202.5	20	-9	-971.5	-1685.4	98.0	-62.2	-43.2
24TH	65.00	-15.9	-36.5	57	178	-278.4	-204.5	20	-9	-955.6	-1648.9	93.0	-59.3	-42.4
25TH	68.00	-16.0	-36.8	57	178	-280.7	-206.5	20	-9	-939.6	-1612.1	88.1	-56.4	-41.5
26TH	71.00	-16.1	-37.2	57	178	-282.9	-208.5	20	-9	-923.5	-1574.9	83.3	-53.6	-40.6
27TH	74.00	-16.3	-37.5	57	178	-285.2	-210.5	20	-9	-907.2	-1537.4	78.6	-50.9	-39.8
28TH	77.00	-16.4	-37.9	57	178	-287.5	-212.5	20	-8	-890.8	-1499.5	74.1	-48.2	-38.9
		-16.5	-38.2	57	178	-289.7	-214.5	20	-8					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :

WIND DIRECTION 320 CONFIGURATION A RAHARDJA CENTER -- BUSINESS TOURIST HOTEL REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									-874.3	-1461.3	69.6	-45.6	-38.0
30TH	83.00	-17.1	-38.9	57	178	-299.4	-217.9	19	-9	-857.2	-1422.4	65.3	-43.0	-37.1
31ST	86.00	-17.6	-39.6	57	178	-309.7	-222.4	19	-9	-839.6	-1382.8	61.1	-40.4	-36.2
32ND	89.00	-18.2	-40.4	57	178	-319.9	-226.8	19	-9	-821.4	-1342.3	57.0	-37.9	-35.2
33RD	92.00	-18.8	-41.2	57	178	-330.2	-231.3	19	-9	-802.5	-1301.1	53.0	-35.5	-34.3
34TH	95.00	-19.4	-42.0	57	178	-340.5	-235.7	19	-9	-783.1	-1259.1	49.2	-33.1	-33.3
35TH	98.00	-20.2	-42.8	58	178	-346.5	-240.2	19	-9	-762.9	-1216.2	45.5	-30.8	-32.3
36TH	101.00	-21.1	-43.6	61	178	-349.4	-244.7	19	-9	-741.8	-1172.6	41.9	-28.5	-31.3
37TH	104.00	-22.1	-44.5	63	178	-352.6	-249.7	19	-9	-719.6	-1128.1	38.5	-26.3	-30.3
38TH	107.00	-23.1	-45.4	65	178	-356.1	-254.8	19	-9	-696.5	-1082.7	35.1	-24.2	-29.2
39TH	110.01	-24.2	-46.4	67	178	-360.0	-260.0	19	-10	-672.3	-1036.3	32.0	-22.2	-28.1
40TH	113.01	-25.3	-47.3	69	178	-364.3	-265.2	19	-10	-647.0	-989.0	28.9	-20.2	-27.0
41ST	116.01	-26.4	-48.2	72	178	-368.8	-270.4	18	-10	-620.6	-940.9	26.0	-18.3	-25.9
42ND	119.01	-27.6	-49.1	74	178	-373.5	-275.5	18	-10	-593.0	-891.7	23.3	-16.5	-24.7
43RD	122.01	-28.6	-50.0	76	178	-375.4	-280.6	18	-10	-564.5	-841.7	20.7	-14.7	-23.5
44TH	125.01	-29.1	-50.5	78	178	-372.2	-283.5	19	-11	-535.3	-791.2	18.2	-13.1	-22.2
45TH	128.01	-29.7	-51.1	81	178	-369.1	-286.4	19	-11	-505.6	-740.1	15.9	-11.5	-20.9
46TH	131.01	-30.3	-51.6	83	178	-366.1	-289.2	19	-11	-475.3	-688.5	13.8	-10.0	-19.6
47TH	134.01	-30.8	-52.1	85	178	-363.1	-292.1	19	-11	-444.5	-636.5	11.8	-8.7	-18.3
48TH	137.01	-31.4	-52.6	87	178	-360.2	-295.0	19	-11	-413.1	-583.9	10.0	-7.4	-16.9
49TH	140.01	-32.0	-53.1	89	178	-357.4	-297.9	19	-12	-381.1	-530.8	8.3	-6.2	-15.5
50TH	143.01	-32.6	-53.3	92	178	-355.6	-299.0	19	-12	-348.6	-477.5	6.8	-5.1	-14.1
51ST	149.01	-67.3	-104.7	190	357	-354.6	-293.5	19	-13	-281.2	-372.8	4.2	-3.2	-11.2
TOP	171.76	-281.2	-372.8	800	1351	-351.4	-275.9	19	-14	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 330 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-1494.5	-1810.8	146.3	-154.1	-43.4
5TH	8.00	-26.8	-100.9	152	475	-176.5	-212.2	27	-7	-1467.7	-1709.9	132.3	-142.3	-40.5
6TH	11.00	-11.5	-38.1	57	178	-202.4	-213.7	25	-8	-1456.1	-1671.8	127.2	-137.9	-39.5
7TH	14.00	-12.3	-38.2	57	178	-216.5	-214.5	24	-8	-1443.8	-1633.5	122.2	-133.5	-38.5
8TH	17.00	-13.1	-38.4	57	178	-230.6	-215.3	23	-8	-1430.6	-1595.1	117.4	-129.2	-37.4
9TH	20.00	-14.0	-38.5	57	178	-244.8	-216.1	23	-8	-1416.7	-1556.6	112.6	-125.0	-36.5
10TH	23.00	-14.8	-38.7	57	178	-258.9	-216.9	22	-8	-1401.9	-1517.9	108.0	-120.7	-35.5
11TH	26.00	-15.6	-38.8	57	178	-273.0	-217.7	21	-8	-1386.4	-1479.1	103.5	-116.6	-34.6
12TH	29.00	-16.4	-38.9	57	178	-287.2	-218.5	20	-9	-1370.0	-1440.2	99.2	-112.4	-33.6
13TH	32.00	-16.9	-38.7	57	178	-296.2	-216.9	20	-9	-1353.1	-1401.5	94.9	-108.3	-32.7
14TH	35.00	-17.3	-38.0	57	178	-304.4	-213.1	19	-9	-1335.8	-1363.5	90.8	-104.3	-31.9
15TH	38.00	-17.8	-37.3	57	178	-312.6	-209.4	18	-9	-1317.9	-1326.2	86.7	-100.3	-31.0
16TH	41.00	-18.3	-36.7	57	178	-320.7	-205.6	18	-9	-1299.7	-1289.5	82.8	-96.4	-30.2
17TH	44.00	-18.7	-36.0	57	178	-328.9	-201.8	17	-9	-1280.9	-1253.6	79.0	-92.5	-29.4
18TH	47.00	-19.2	-35.3	57	178	-337.1	-198.1	16	-9	-1261.7	-1218.2	75.3	-88.7	-28.7
19TH	50.00	-19.7	-34.6	57	178	-345.2	-194.3	16	-9	-1242.0	-1183.6	71.7	-85.0	-27.9
20TH	53.00	-20.1	-34.0	57	178	-353.4	-190.5	15	-9	-1221.9	-1149.6	68.2	-81.3	-27.3
21ST	56.00	-20.6	-33.3	57	178	-361.9	-186.8	14	-9	-1201.3	-1116.3	64.8	-77.6	-26.6
22ND	59.00	-21.1	-32.6	57	178	-370.9	-183.0	14	-9	-1180.1	-1083.7	61.5	-74.0	-25.9
23RD	62.00	-21.6	-31.9	57	178	-379.8	-179.2	13	-9	-1158.5	-1051.8	58.3	-70.5	-25.3
24TH	65.00	-22.2	-31.3	57	178	-388.8	-175.4	13	-9	-1136.3	-1020.5	55.2	-67.1	-24.7
25TH	68.00	-22.7	-30.6	57	178	-397.8	-171.6	13	-9	-1113.6	-989.9	52.1	-63.7	-24.1
26TH	71.00	-23.2	-29.9	57	178	-406.7	-167.8	12	-9	-1090.4	-960.0	49.2	-60.4	-23.5
27TH	74.00	-23.7	-29.2	57	178	-415.7	-164.0	12	-9	-1066.8	-930.7	46.4	-57.2	-23.0
28TH	77.00	-24.2	-28.6	57	178	-424.7	-160.2	11	-9	-1042.5	-902.2	43.6	-54.0	-22.4
		-24.7	-27.9	57	178	-433.7	-156.5	11	-9					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 330 CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00			57	178	-439.5	-154.3	10	-9	-1017.8	-874.3	41.0	-50.9	-21.9
30TH	83.00	-25.1	-27.5	57	178	-445.1	-153.3	10	-9	-992.8	-846.8	38.4	-47.9	-21.4
31ST	86.00	-25.4	-27.3	57	178	-445.1	-153.3	10	-9	-967.4	-819.4	35.9	-45.0	-20.9
32ND	89.00	-25.7	-27.2	57	178	-450.6	-152.4	10	-9	-941.7	-792.3	33.5	-42.1	-20.4
33RD	92.00	-26.0	-27.0	57	178	-456.2	-151.4	10	-9	-915.7	-765.3	31.1	-39.3	-19.9
34TH	95.00	-26.3	-26.8	57	178	-461.7	-150.5	10	-9	-889.4	-738.4	28.9	-36.6	-19.4
35TH	98.00	-26.9	-26.7	58	178	-461.1	-149.5	9	-9	-862.5	-711.8	26.7	-34.0	-18.9
36TH	101.00	-27.6	-26.5	61	178	-456.0	-148.5	9	-9	-834.9	-685.3	24.6	-31.4	-18.4
37TH	104.00	-28.2	-26.8	63	178	-449.8	-150.2	9	-9	-806.7	-658.5	22.6	-29.0	-17.9
37TH	104.00	-28.9	-27.2	65	178	-444.4	-152.5	9	-10	-777.8	-631.3	20.7	-26.6	-17.4
38TH	107.00	-29.6	-27.6	67	178	-439.9	-154.8	9	-10	-748.3	-603.7	18.8	-24.3	-16.8
39TH	110.01	-30.3	-28.0	69	178	-436.1	-157.1	9	-10	-718.0	-575.7	17.0	-22.1	-16.2
40TH	113.01	-31.0	-28.4	72	178	-433.1	-159.4	9	-10	-687.0	-547.3	15.3	-20.0	-15.7
41ST	116.01	-31.8	-28.8	74	178	-430.6	-161.7	9	-10	-655.2	-518.5	13.7	-18.0	-15.0
42ND	119.01	-32.5	-29.2	76	178	-427.9	-163.9	10	-11	-622.6	-489.3	12.2	-16.1	-14.4
43RD	122.01	-33.2	-29.2	78	178	-424.0	-163.9	10	-11	-589.4	-460.0	10.8	-14.3	-13.8
44TH	125.01	-33.8	-29.2	81	178	-419.6	-163.8	10	-12	-555.7	-430.8	9.5	-12.5	-13.1
45TH	128.01	-34.4	-29.2	83	178	-415.2	-163.8	10	-12	-521.3	-401.6	8.2	-10.9	-12.4
46TH	131.01	-34.9	-29.2	85	178	-410.6	-163.7	10	-12	-486.4	-372.4	7.1	-9.4	-11.6
47TH	134.01	-35.4	-29.2	87	178	-405.7	-163.7	11	-13	-451.1	-343.3	6.0	-8.0	-10.9
48TH	137.01	-35.8	-29.2	89	178	-400.7	-163.7	11	-13	-415.2	-314.1	5.0	-6.7	-10.1
49TH	140.01	-36.4	-29.2	92	178	-396.8	-163.8	11	-14	-378.9	-284.9	4.1	-5.5	-9.2
50TH	143.01	-74.6	-58.7	190	357	-393.0	-164.6	11	-14	-304.3	-226.2	2.6	-3.5	-7.5
51ST	149.01	-304.3	-226.2	800	1351	-380.2	-167.4	12	-16	0.0	0.0	0.0	0.0	0.0
TOP	171.76													

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 340

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-1635.4	-1660.9	113.4	-167.2	-36.5
5TH	8.00	-25.3	-111.6	152	475	-166.3	-234.0	29	-7	-1610.1	-1549.3	100.6	-154.2	-33.1
6TH	11.00	-11.3	-43.0	57	178	-199.0	-241.0	27	-7	-1598.8	-1506.3	96.0	-149.4	-31.9
7TH	14.00	-12.4	-43.6	57	178	-216.9	-244.4	26	-7	-1586.4	-1462.8	91.6	-144.6	-30.7
8TH	17.00	-13.4	-44.2	57	178	-234.7	-247.7	25	-7	-1573.0	-1418.6	87.2	-139.9	-29.5
9TH	20.00	-14.4	-44.8	57	178	-252.6	-251.1	24	-8	-1558.6	-1373.8	83.0	-135.2	-28.3
10TH	26.00	-15.4	-45.4	57	178	-270.4	-254.4	23	-8	-1543.2	-1328.5	79.0	-130.5	-27.2
11TH	23.00	-16.4	-46.0	57	178	-288.2	-257.8	22	-8	-1526.8	-1282.5	75.1	-125.9	-26.0
12TH	26.00	-17.4	-46.6	57	178	-306.1	-261.2	21	-8	-1509.3	-1235.9	71.3	-121.4	-24.9
13TH	29.00	-18.4	-46.3	57	178	-322.5	-259.5	20	-8	-1491.0	-1189.7	67.7	-116.9	-23.9
14TH	32.00	-19.3	-45.1	57	178	-338.6	-253.0	19	-8	-1471.7	-1144.6	64.2	-112.4	-22.8
15TH	35.00	-20.2	-44.0	57	178	-354.8	-246.5	18	-8	-1451.4	-1100.6	60.8	-108.0	-21.9
16TH	38.00	-21.1	-42.8	57	178	-370.9	-240.1	17	-8	-1430.3	-1057.8	57.5	-103.7	-21.0
17TH	41.00	-22.1	-41.6	57	178	-387.1	-233.6	16	-9	-1408.2	-1016.2	54.4	-99.5	-20.1
18TH	44.00	-23.0	-40.5	57	178	-403.2	-227.1	15	-9	-1385.2	-975.7	51.5	-95.3	-19.3
19TH	47.00	-23.9	-39.3	57	178	-419.4	-220.7	14	-8	-1361.3	-936.3	48.6	-91.2	-18.5
20TH	50.00	-24.8	-38.2	57	178	-435.6	-214.2	13	-8	-1336.5	-898.2	45.8	-87.1	-17.8
21ST	53.00	-25.5	-37.0	57	178	-447.7	-207.7	12	-8	-1311.0	-861.1	43.2	-83.1	-17.2
22ND	56.00	-25.9	-35.9	57	178	-453.5	-201.1	11	-8	-1285.1	-825.3	40.7	-79.2	-16.6
23RD	59.00	-26.2	-34.7	57	178	-459.4	-194.5	11	-8	-1259.0	-790.6	38.2	-75.4	-16.0
24TH	62.00	-26.5	-33.5	57	178	-465.2	-187.9	10	-8	-1232.4	-757.1	35.9	-71.7	-15.4
25TH	65.00	-26.8	-32.3	57	178	-471.0	-181.2	10	-8	-1205.6	-724.8	33.7	-68.0	-14.9
26TH	68.00	-27.2	-31.1	57	178	-476.9	-174.6	9	-8	-1178.4	-693.7	31.6	-64.5	-14.4
27TH	71.00	-27.5	-29.9	57	178	-482.7	-168.0	9	-8	-1150.9	-663.7	29.5	-61.0	-13.9
28TH	74.00	-27.8	-28.8	57	178	-488.6	-161.4	8	-8	-1123.1	-634.9	27.6	-57.6	-13.4
	77.00	-28.2	-27.6	57	178	-494.4	-154.7	8	-8					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 340

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00									-1094.9	-607.4	25.7	-54.2	-13.0
30TH	83.00	-28.4	-26.7	57	178	-498.0	-149.7	7	-8	-1066.5	-580.7	23.9	-51.0	-12.6
31ST	86.00	-28.6	-26.0	57	178	-501.5	-145.8	7	-8	-1037.9	-554.7	22.2	-47.8	-12.2
32ND	89.00	-28.8	-25.3	57	178	-505.0	-142.0	7	-8	-1009.1	-529.4	20.6	-44.8	-11.8
33RD	92.00	-29.0	-24.6	57	178	-508.5	-138.1	6	-7	-980.1	-504.7	19.1	-41.8	-11.4
34TH	95.00	-29.2	-23.9	57	178	-511.9	-134.2	6	-7	-951.0	-480.8	17.6	-38.9	-11.1
35TH	98.00	-29.6	-23.2	58	178	-508.2	-130.4	6	-7	-921.3	-457.6	16.2	-36.1	-10.7
36TH	101.00	-30.3	-22.5	61	178	-499.9	-126.5	5	-7	-891.1	-435.0	14.8	-33.3	-10.4
37TH	104.00	-30.9	-22.1	63	178	-491.9	-124.0	5	-7	-860.2	-412.9	13.6	-30.7	-10.1
38TH	107.00	-31.5	-21.7	65	178	-484.8	-121.8	5	-7	-828.7	-391.2	12.4	-28.2	-9.8
39TH	107.00	-32.1	-21.3	67	178	-478.4	-119.6	4	-7	-796.6	-369.9	11.2	-25.7	-9.5
40TH	110.01	-32.8	-20.9	69	178	-472.8	-117.4	4	-7	-763.7	-349.0	10.1	-23.4	-9.2
41ST	113.01	-33.5	-20.5	72	178	-467.8	-115.2	4	-7	-730.2	-328.4	9.1	-21.2	-8.9
42ND	116.01	-34.2	-20.1	74	178	-463.4	-113.0	4	-6	-696.0	-308.3	8.2	-19.0	-8.6
43RD	119.01	-34.9	-19.7	76	178	-459.2	-110.7	4	-6	-661.1	-288.5	7.3	-17.0	-8.3
44TH	122.01	-35.6	-19.0	78	178	-454.5	-108.7	4	-7	-625.5	-269.5	6.4	-15.1	-8.0
45TH	125.01	-36.2	-18.3	81	178	-449.6	-102.6	4	-7	-589.3	-251.2	5.6	-13.2	-7.7
46TH	128.01	-36.8	-17.6	83	178	-444.7	-96.5	4	-7	-552.5	-233.7	4.9	-11.5	-7.3
47TH	131.01	-37.3	-16.8	85	178	-439.6	-94.5	3	-8	-515.2	-216.8	4.2	-9.9	-7.0
48TH	134.01	-37.9	-16.1	87	178	-434.4	-90.4	3	-8	-477.3	-200.7	3.6	-8.4	-6.6
49TH	137.01	-38.4	-15.4	89	178	-429.2	-86.3	3	-8	-439.9	-185.3	3.0	-7.1	-6.2
50TH	140.01	-39.0	-15.0	92	178	-425.2	-84.1	3	-9	-400.0	-170.3	2.5	-5.8	-5.9
51ST	143.01	-39.9	-14.6	190	357	-420.7	-88.5	4	-10	-320.1	-138.7	1.6	-3.6	-4.9
TOP	171.76	-320.1	-138.7	800	1351	-400.0	-102.7	6	-13	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 350

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
4TH	0.00									-1462.6	-1323.9	83.5	-146.1	-27.3
5TH	8.00	-19.5	-90.3	152	475	-128.1	-189.9	31	-7	-1443.2	-1233.6	73.3	-136.4	-24.4
6TH	11.00	-9.3	-35.7	57	178	-163.6	-200.2	28	-7	-1433.8	-1198.0	69.6	-132.1	-23.4
7TH	14.00	-10.4	-36.7	57	178	-183.0	-205.8	27	-8	-1423.4	-1161.3	66.1	-127.8	-22.3
8TH	17.00	-11.5	-37.7	57	178	-202.3	-211.4	26	-8	-1411.9	-1123.6	62.6	-123.6	-21.2
9TH	20.00	-12.6	-38.7	57	178	-221.7	-217.0	25	-8	-1399.2	-1084.9	59.3	-119.4	-20.1
10TH	23.00	-13.7	-39.7	57	178	-241.1	-222.6	24	-8	-1385.5	-1045.2	56.1	-115.2	-19.1
11TH	26.00	-14.8	-40.7	57	178	-260.4	-228.2	23	-8	-1370.6	-1004.5	53.1	-111.1	-18.0
12TH	29.00	-15.9	-41.7	57	178	-279.8	-233.8	22	-9	-1354.7	-962.8	50.1	-107.0	-16.9
13TH	32.00	-17.0	-41.6	57	178	-297.4	-233.2	21	-9	-1337.7	-921.3	47.3	-102.9	-15.9
14TH	35.00	-17.9	-40.4	57	178	-314.8	-226.6	20	-9	-1319.8	-880.9	44.6	-98.9	-14.9
15TH	38.00	-18.9	-39.2	57	178	-332.1	-220.0	19	-9	-1300.9	-841.6	42.0	-95.0	-14.0
16TH	41.00	-19.9	-38.1	57	178	-349.4	-213.4	17	-9	-1281.0	-803.6	39.5	-91.1	-13.2
17TH	44.00	-20.9	-36.9	57	178	-366.7	-206.9	16	-9	-1260.1	-766.7	37.2	-87.3	-12.4
18TH	47.00	-21.9	-35.7	57	178	-384.0	-200.3	15	-9	-1238.2	-731.0	34.9	-83.6	-11.7
19TH	50.00	-22.9	-34.5	57	178	-401.4	-193.7	13	-9	-1215.3	-696.5	32.8	-79.9	-11.0
20TH	53.00	-23.9	-33.4	57	178	-418.7	-187.2	12	-8	-1191.4	-663.1	30.7	-76.3	-10.4
21ST	56.00	-24.6	-32.2	57	178	-430.7	-180.6	11	-8	-1166.9	-630.9	28.8	-72.8	-9.9
22ND	59.00	-24.8	-31.0	57	178	-434.3	-174.0	10	-8	-1142.1	-599.9	27.0	-69.3	-9.4
23RD	62.00	-25.0	-29.8	57	178	-438.0	-167.4	9	-8	-1117.2	-570.0	25.2	-65.9	-8.9
24TH	65.00	-25.2	-28.7	57	178	-441.6	-160.8	8	-7	-1092.0	-541.4	23.5	-62.6	-8.5
25TH	68.00	-25.4	-27.5	57	178	-445.2	-154.2	8	-7	-1066.6	-513.9	22.0	-59.3	-8.1
26TH	71.00	-25.6	-26.3	57	178	-448.8	-147.6	7	-7	-1041.0	-487.6	20.5	-56.2	-7.7
27TH	74.00	-25.8	-25.1	57	178	-452.5	-141.0	6	-6	-1015.2	-462.4	19.0	-53.1	-7.4
28TH	77.00	-26.0	-24.0	57	178	-456.1	-134.4	6	-6	-989.2	-438.5	17.7	-50.1	-7.1
		-26.2	-22.8	57	178	-459.7	-127.8	5	-5					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 350

CONFIGURATION A

RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
29TH	80.00	-26.3	-21.8	57	178	-460.8	-122.3	4	-5	-963.0	-415.7	16.4	-47.2	-6.9
30TH	83.00	-26.3	-21.0	57	178	-461.7	-117.8	4	-5	-936.8	-393.9	15.2	-44.3	-6.6
31ST	86.00	-26.4	-20.2	57	178	-462.6	-113.2	3	-4	-910.4	-372.9	14.0	-41.5	-6.4
32ND	89.00	-26.4	-19.4	57	178	-463.5	-108.6	3	-4	-884.1	-352.7	12.9	-38.9	-6.2
33RD	92.00	-26.5	-18.5	57	178	-464.4	-104.0	3	-4	-857.7	-333.3	11.9	-36.2	-6.1
34TH	95.00	-26.7	-17.7	58	178	-458.1	-99.4	2	-3	-831.2	-314.8	10.9	-33.7	-5.9
35TH	98.00	-27.1	-16.9	61	178	-447.7	-94.9	2	-3	-804.5	-297.1	10.0	-31.3	-5.8
36TH	101.00	-27.6	-16.4	63	178	-439.6	-91.9	2	-3	-777.4	-280.2	9.2	-28.9	-5.7
37TH	104.00	-28.1	-15.9	65	178	-432.2	-89.3	1	-3	-749.8	-263.8	8.3	-26.6	-5.6
38TH	107.00	-28.6	-15.5	67	178	-425.6	-86.8	1	-3	-721.7	-247.8	7.6	-24.4	-5.5
39TH	110.01	-29.1	-15.0	69	178	-419.5	-84.2	1	-2	-693.1	-232.4	6.9	-22.3	-5.4
40TH	113.01	-29.7	-14.6	72	178	-414.1	-81.6	1	-2	-664.0	-217.4	6.2	-20.2	-5.3
41ST	116.01	-30.2	-14.1	74	178	-409.1	-79.1	1	-2	-634.3	-202.8	5.5	-18.3	-5.2
42ND	119.01	-30.8	-13.6	76	178	-404.4	-76.4	1	-2	-604.1	-188.7	5.0	-16.4	-5.2
43RD	122.01	-31.3	-12.7	78	178	-399.6	-71.5	1	-3	-573.4	-175.1	4.4	-14.7	-5.1
44TH	125.01	-31.8	-11.9	81	178	-394.9	-66.6	1	-3	-542.1	-162.4	3.9	-13.0	-5.0
45TH	128.01	-32.3	-11.0	83	178	-390.2	-61.6	1	-3	-510.3	-150.5	3.4	-11.4	-4.9
46TH	131.01	-32.8	-10.1	85	178	-385.6	-56.7	1	-4	-478.0	-139.5	3.0	-9.9	-4.7
47TH	134.01	-33.2	-9.2	87	178	-381.1	-51.8	1	-4	-445.2	-129.4	2.6	-8.5	-4.6
48TH	137.01	-33.7	-8.4	89	178	-376.6	-46.9	1	-5	-412.0	-120.2	2.2	-7.2	-4.5
49TH	140.01	-34.1	-7.9	92	178	-372.7	-44.1	1	-5	-378.4	-111.8	1.9	-6.1	-4.3
50TH	143.01	-69.8	-17.4	190	357	-367.4	-48.9	2	-7	-344.2	-103.9	1.6	-5.0	-4.1
51ST	149.01	-274.5	-86.5	800	1351	-343.0	-64.0	4	-12	-274.5	-86.5	1.0	-3.1	-3.6
TOP	171.76									0.0	0.0	0.0	0.0	0.0

TABLE 7. BASE SHEAR AND MOMENT SUMMARY : RAHARDJA CENTER -- BUSINESS TOURIST HOTEL
 CONFIGURATION A REFERENCE PRESSURE 675 GUST FACTOR 1.00

AZIMUTH	SHEAR (KN)		MOMENT (KN-M)			ECCEN (M)		
	X	Y	X	Y	Z	X	Y	
0	-814	-5662	30	5	-76.4	-12.8	7	-11
10	-159	231	-23	6	-13.4	6.6	19	13
20	-176	2136	-169	0	-4.4	5.9	28	1
30	-1070	4153	-339	0	-9.4	112.8	25	7
40	-1550	4578	-383	1	-14.7	121.7	24	8
50	-1118	4995	-429	3	-10.4	131.2	25	8
60	-369	5096	-442	5	-30.5	129.9	25	2
70	191	5626	-489	2	22.0	130.6	24	-1
80	56	5994	-518	7	-7.1	130.0	23	-0
90	-83	6033	-529	0	-6.2	134.4	22	0
100	-336	6075	-529	3	-6.2	126.2	21	1
110	-591	5702	-488	4	-5.7	112.6	19	2
120	-288	5527	-473	0	-2.4	102.9	19	1
130	49	5094	-434	4	8.8	88.8	17	0
140	543	4378	-367	7	5.8	71.3	16	-2
150	1058	3273	-268	7	10.9	50.1	14	-4
160	1276	1999	-155	9	13.3	33.2	12	-8
170	1137	868	-62	6	11.9	17.2	7	-1
180	974	-260	18	9	-9.9	-5.6	1	5
190	1297	-929	82	4	13.5	0.0	8	1
200	1383	-1623	120	0	14.3	-3.0	11	9
210	1236	-2337	216	6	12.7	-1.2	13	6
220	855	-3631	370	9	8.8	-5.7	15	4
230	369	-4273	373	9	3.8	-7.0	16	1
240	89	-4434	407	3	-2.9	-7.7	18	0
250	-283	-4654	433	1	-3.2	-9.0	20	0
260	-505	-5330	478	0	-5.0	-10.8	20	-2
270	-172	-5254	472	2	-1.8	-11.0	21	-1
280	-33	-4826	442	9	-4.4	-10.8	22	-0
290	111	-4892	441	0	1.1	-11.1	23	1
300	-97	-3567	334	8	-4.1	-8.2	23	-1
310	-954	-2626	251	1	-9.7	-6.6	21	-0
320	-1272	-2402	220	1	-13.2	-6.0	20	-1
330	-1494	-1811	146	1	-15.4	-4.3	14	-1
340	-1635	-1661	113	1	-16.7	-3.6	11	-1
350	-1463	-1324	83	5	-14.8	-2.7	9	-1

TABLE 7. RAHARDJA CENTER -- CONVENTION HOTEL
 PROJECT 5251 CONFIGURATION A
 SCALE = 400 REF. PRESSURE = 675
 GUST FACTOR = 1.00 STANDARD FLOOR HEIGHT = 3.00
 NUMBER OF SIDES = 4 NO. OF FLOORS = 63

SIDE	ANGLE	Z-AXIS
1	0.0	8.176
2	90.0	3.256
3	180.0	8.176
4	270.0	4.376

FLOOR #	LABEL	HEIGHT-M
1	1ST	8.75
2	2ND	11.00
3	3RD	13.00
4	4TH	15.00
5	5TH	17.00
6	6TH	19.00
7	7TH	21.00
8	8TH	23.00
9	9TH	25.00
10	10TH	27.00
11	11TH	29.00
12	12TH	31.00
13	13TH	33.00
14	14TH	35.00
15	15TH	37.00
16	16TH	39.00
17	17TH	41.00
18	18TH	43.00
19	19TH	45.00
20	20TH	47.00
21	21ST	49.00
22	22ND	51.00
23	23RD	53.00
24	24TH	55.00
25	25TH	57.00
26	26TH	59.00
27	27TH	61.00
28	28TH	63.00
29	29TH	65.00
30	30TH	67.00
31	31ST	69.00
32	32ND	71.00
33	33RD	73.00
34	34TH	75.00
35	35TH	77.00
36	36TH	79.00
37	37TH	81.00
38	38TH	83.00
39	39TH	85.00
40	40TH	87.00
41	41ST	89.00
42	42ND	91.00
43	43RD	93.00
44	44TH	95.00
45	45TH	97.00
46	46TH	99.00
47	47TH	101.00
48	48TH	103.00
49	49TH	105.00
50	50TH	107.00
51	51ST	109.00
52	52ND	111.00
53	53RD	113.00
54	54TH	115.00
55	55TH	117.00
56	56TH	119.00
57	57TH	121.00
58	58TH	123.00
59	59TH	125.00
60	60TH	127.00
61	61ST	129.00
62	62ND	131.00
63	63RD	133.75

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 0°

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-6645.6	-665.3	37.3	-791.0	8.9
2ND	6.75	0.0	-64.6	0	115	0.0	-562.3	-1	0	-6645.6	-600.7	33.1	-746.2	8.9
3RD	11.75	0.0	-54.9	0	81	0.0	-678.6	-1	0	-6645.6	-545.8	30.2	-713.0	8.8
4TH	16.75	0.0	-62.3	0	77	0.0	-804.6	-0	0	-6645.6	-483.4	27.6	-679.7	8.8
5TH	21.75	0.0	-69.1	0	74	0.0	-935.3	0	0	-6645.6	-414.3	25.4	-646.5	8.9
6TH	21.75	-283.9	-128.9	491	124	-578.4	-1038.0	-2	4	-6361.8	-285.4	22.2	-588.0	7.6
6TH	30.75	-186.7	-34.2	327	115	-570.8	-296.8	-1	4	-6175.1	-251.3	20.9	-556.6	7.0
7TH	35.75	-185.7	-21.0	327	125	-567.7	-168.2	-0	3	-5989.4	-230.3	19.7	-526.2	6.4
8TH	40.75	-111.0	-10.0	196	75	-565.7	-132.8	-0	2	-5878.4	-220.3	19.0	-508.4	6.1
9TH	43.75	-110.7	-8.0	196	75	-564.2	-106.3	-0	2	-5767.7	-212.3	18.4	-490.9	5.9
10TH	46.75	-110.4	-6.0	196	75	-562.7	-79.8	-0	1	-5657.2	-206.3	17.7	-473.8	5.8
11TH	49.75	-110.1	-4.0	196	75	-561.2	-53.3	-0	1	-5547.1	-202.3	17.1	-457.0	5.7
12TH	52.75	-109.8	-2.0	196	75	-559.7	-26.8	-0	1	-5437.3	-200.3	16.5	-440.5	5.6
13TH	55.75	-109.3	-1.4	196	75	-556.8	-19.2	-0	0	-5328.0	-198.9	15.9	-424.4	5.6
14TH	58.75	-108.4	-1.7	196	75	-552.3	-22.9	-0	0	-5219.6	-197.2	15.3	-408.6	5.5
15TH	61.75	-107.5	-2.0	196	75	-547.7	-26.6	-0	1	-5112.2	-195.2	14.7	-393.1	5.4
16TH	64.75	-106.6	-2.3	196	75	-543.1	-30.3	-0	1	-5005.6	-192.9	14.1	-377.9	5.4
17TH	67.75	-105.7	-2.5	196	75	-538.5	-34.0	-0	1	-4899.9	-190.4	13.6	-363.0	5.3
18TH	70.75	-104.8	-2.8	196	75	-533.9	-37.6	-0	1	-4795.1	-187.5	13.0	-348.5	5.2
19TH	73.75	-103.9	-3.1	196	75	-529.4	-41.3	-0	1	-4691.2	-184.4	12.4	-334.2	5.1
20TH	76.75	-103.0	-3.4	196	75	-524.8	-45.0	-0	1	-4588.3	-181.1	11.9	-320.3	5.0
21ST	79.75	-102.1	-3.6	196	75	-520.2	-48.7	-0	1	-4486.2	-177.4	11.4	-306.7	4.8
22ND	82.75	-101.2	-3.9	196	75	-515.6	-52.4	-0	1	-4385.0	-173.5	10.8	-293.4	4.7
23RD	85.75	-100.4	-4.1	196	75	-511.8	-54.4	-0	2	-4284.6	-169.4	10.3	-280.4	4.5
24TH	88.75	-100.1	-4.1	196	75	-509.9	-54.6	-0	1	-4184.5	-165.3	9.8	-267.7	4.4
25TH	91.75	-99.7	-4.1	196	75	-508.0	-54.8	-0	1					

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

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	-99.3	-4.1	196	75	-506.1	-55.0	-0	1	-4084.8	-161.2	9.3	-255.3	4.2
27TH	97.75	-98.9	-4.1	196	75	-504.2	-55.2	-0	1	-3985.5	-157.1	8.8	-243.2	4.1
28TH	100.75	-98.6	-4.2	196	75	-502.3	-55.4	-0	1	-3886.5	-152.9	8.4	-231.4	3.9
29TH	103.75	-98.2	-4.2	196	75	-500.4	-55.6	-0	1	-3788.0	-148.8	7.9	-219.9	3.8
30TH	106.75	-97.8	-4.2	196	75	-498.5	-55.8	-0	1	-3689.8	-144.6	7.5	-208.6	3.7
31ST	109.75	-97.4	-4.2	196	75	-496.6	-56.1	-0	1	-3592.0	-140.4	7.1	-197.7	3.5
32ND	112.75	-97.1	-4.2	196	75	-494.7	-56.3	-0	1	-3494.5	-136.2	6.6	-187.1	3.4
33RD	115.75	-96.7	-4.2	196	75	-493.0	-56.4	-0	1	-3397.5	-132.0	6.2	-176.8	3.2
34TH	118.75	-193.4	-8.5	392	150	-492.7	-56.7	-0	1	-3300.7	-127.8	5.9	-166.7	3.1
35TH	124.75	-96.6	-4.3	196	75	-492.5	-57.0	-0	1	-3107.3	-119.3	5.1	-147.5	2.8
36TH	127.75	-96.6	-4.3	196	75	-492.3	-57.1	-0	1	-3010.7	-115.0	4.8	-138.3	2.7
37TH	130.75	-96.6	-4.3	196	75	-492.1	-57.3	-0	1	-2914.1	-110.7	4.4	-129.4	2.6
38TH	133.75	-96.5	-4.3	196	75	-492.0	-57.5	-0	1	-2817.5	-106.4	4.1	-120.8	2.5
39TH	136.75	-96.5	-4.3	196	75	-491.8	-57.6	-0	1	-2721.0	-102.1	3.8	-112.5	2.3
40TH	139.75	-96.5	-4.3	196	75	-491.6	-57.8	-0	1	-2624.5	-97.8	3.5	-104.5	2.2
41ST	142.75	-96.4	-4.3	196	75	-491.4	-58.0	-0	1	-2528.0	-93.5	3.2	-96.8	2.1
42ND	145.75	-96.4	-4.4	196	75	-491.3	-58.0	-0	1	-2431.6	-89.1	2.9	-89.3	2.0
43RD	148.75	-96.7	-4.3	196	75	-493.0	-57.5	-0	1	-2335.2	-84.8	2.7	-82.2	1.9
44TH	151.76	-97.1	-4.3	196	75	-494.8	-57.1	-0	1	-2238.4	-80.5	2.4	-75.3	1.8
45TH	154.76	-97.4	-4.2	196	75	-496.5	-56.6	-0	1	-2141.3	-76.2	2.2	-68.7	1.7
46TH	157.76	-97.8	-4.2	196	75	-498.3	-56.1	-0	1	-2043.9	-71.9	2.0	-62.5	1.6
47TH	160.76	-98.1	-4.2	196	75	-500.1	-55.6	-0	1	-1946.1	-67.7	1.7	-56.5	1.5
48TH	163.76	-98.5	-4.1	196	75	-501.9	-55.1	-0	1	-1848.0	-63.6	1.6	-50.8	1.4
49TH	166.76	-98.9	-4.1	196	75	-503.9	-54.8	-0	1	-1749.8	-59.4	1.4	-45.4	1.3
50TH	169.76	-99.5	-4.1	196	75	-507.1	-54.7	-0	1	-1650.6	-55.3	1.2	-40.3	1.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL														
WIND DIRECTION 0		CONFIGURATION A								REFERENCE PRESSURE 675 PA			GUST FACTOR 1.00	
FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76			196	75	-510.3	-54.6	-0	1	-1551.1	-51.2	1.0	-35.5	1.2
52ND	175.76	-100.1	-4.1	196	75	-513.5	-54.5	-0	1	-1450.9	-47.1	.9	-31.0	1.1
53RD	178.76	-100.8	-4.1	196	75	-513.5	-54.5	-0	1	-1350.2	-43.0	.8	-26.8	1.0
54TH	181.76	-101.4	-4.1	196	75	-516.7	-54.5	-0	1	-1248.8	-39.0	.6	-22.9	.9
55TH	184.76	-102.0	-4.1	196	75	-519.9	-54.4	-0	1	-1146.8	-34.9	.5	-19.3	.8
56TH	187.76	-102.6	-4.1	196	75	-523.1	-54.3	-0	1	-1044.1	-30.8	.4	-16.0	.7
57TH	190.76	-103.1	-4.0	196	75	-525.2	-52.7	-0	1	-941.0	-26.9	.3	-13.0	.6
58TH	193.76	-103.2	-3.8	196	75	-525.8	-50.1	-0	1	-837.9	-23.1	.3	-10.4	.5
59TH	196.76	-103.3	-3.6	196	75	-526.4	-47.5	-0	1	-734.6	-19.5	.2	-8.0	.5
60TH	199.76	-103.4	-3.4	196	75	-527.0	-44.9	-0	1	-631.2	-16.2	.1	-6.0	.4
61ST	202.76	-103.5	-3.2	196	75	-527.6	-42.3	-0	1	-527.6	-13.0	.1	-4.2	.3
62ND	205.76	-103.7	-3.0	196	75	-528.2	-39.7	-0	1	-424.0	-10.0	.1	-2.8	.2
63RD	208.76	-173.0	-4.3	327	125	-529.1	-35.9	-0	1	-250.9	-5.5	.0	-1.1	.1
TOP	219.51	-250.9	-5.5	572	219	-438.5	-25.3	-0	0	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 10

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-6534.2	-102.3	-10.5	-703.9	-7.2
2ND	6.75	0.0	-47.6	0	115	0.0	-414.2	-1	0	-6534.2	-134.7	-19.5	-739.8	-7.2
3RD	11.75	0.0	-38.2	0	81	0.0	-471.8	-1	0	-6534.2	-96.5	-20.1	-707.2	-7.3
4TH	16.75	0.0	-48.5	0	77	0.0	-626.8	0	0	-6534.2	-47.9	-20.5	-674.5	-7.3
5TH	21.75	0.0	-59.4	0	74	0.0	-803.8	1	0	-6534.2	11.5	-20.6	-641.8	-7.2
6TH	26.75	-272.5	-117.9	491	124	-555.1	-949.3	-1	3	-6261.7	129.3	-19.9	-584.2	-8.1
7TH	30.75	-177.9	-23.3	327	115	-543.9	-202.5	-0	3	-6083.8	152.6	-19.2	-553.4	-8.6
7TH	35.75	-177.2	-10.6	327	125	-541.8	-84.5	-0	2	-5906.6	163.2	-18.4	-523.4	-9.0
8TH	40.75	-106.2	-4.6	196	75	-541.2	-61.6	-0	2	-5800.4	167.8	-18.0	-505.8	-9.1
9TH	43.75	-106.1	-3.3	196	75	-540.8	-44.5	-0	1	-5694.3	171.1	-17.4	-488.6	-9.3
10TH	46.75	-106.0	-2.1	196	75	-540.4	-27.4	-0	1	-5588.3	173.2	-16.9	-471.7	-9.4
11TH	49.75	-106.0	-0.8	196	75	-540.0	-10.2	-0	0	-5482.3	174.0	-16.4	-455.1	-9.4
12TH	52.75	-105.9	0.5	196	75	-539.5	6.9	0	0	-5376.4	173.4	-15.9	-438.8	-9.4
13TH	55.75	-105.5	1.1	196	75	-537.6	14.8	-0	-0	-5270.9	172.3	-15.4	-422.8	-9.4
14TH	58.75	-104.8	1.3	196	75	-533.9	17.3	-0	-0	-5166.2	171.0	-14.8	-407.1	-9.4
15TH	61.75	-104.0	1.5	196	75	-530.2	19.7	-0	-0	-5062.1	169.6	-14.3	-391.8	-9.3
16TH	64.75	-103.3	1.7	196	75	-526.5	22.2	-0	-0	-4958.8	167.9	-13.8	-376.8	-9.3
17TH	67.75	-102.6	1.8	196	75	-522.8	24.6	-0	-1	-4856.2	166.1	-13.3	-362.0	-9.2
18TH	70.75	-101.9	2.0	196	75	-519.1	27.0	-0	-1	-4754.3	164.0	-12.8	-347.6	-9.2
19TH	73.75	-101.1	2.2	196	75	-515.4	29.5	-0	-1	-4653.2	161.8	-12.3	-333.5	-9.1
20TH	76.75	-100.4	2.4	196	75	-511.7	31.9	-0	-1	-4552.8	159.4	-11.9	-319.7	-9.0
21ST	79.75	-99.7	2.6	196	75	-508.0	34.4	-0	-1	-4453.1	156.8	-11.4	-306.2	-8.9
22ND	82.75	-99.0	2.8	196	75	-504.3	36.8	-0	-1	-4354.1	154.1	-10.9	-293.0	-8.8
23RD	85.75	-98.3	2.9	196	75	-501.2	38.5	-0	-1	-4255.8	151.2	-10.5	-280.1	-8.6
24TH	88.75	-98.0	2.9	196	75	-499.3	39.2	-0	-1	-4157.8	148.3	-10.0	-267.5	-8.5
25TH	91.75	-97.6	3.0	196	75	-497.4	39.9	-0	-1					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 10 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									-4060.2	145.3	-9.6	-255.1	-8.3
27TH	97.75	-97.2	3.0	196	75	-495.5	40.7	0	-1	-3963.0	142.2	-9.1	-243.1	-8.2
28TH	100.75	-96.9	3.1	196	75	-493.7	41.4	0	-2	-3866.1	139.1	-0.7	-231.3	-8.1
29TH	103.75	-96.5	3.2	196	75	-491.8	42.1	0	-2	-3769.6	136.0	-8.3	-219.9	-7.9
30TH	106.75	-96.1	3.2	196	75	-489.9	42.9	0	-2	-3673.5	132.7	-7.9	-208.7	-7.8
31ST	109.75	-95.8	3.3	196	75	-488.0	43.6	0	-2	-3577.7	129.5	-7.5	-197.8	-7.6
32ND	112.75	-95.4	3.3	196	75	-486.2	44.3	0	-2	-3482.3	126.2	-7.1	-187.3	-7.4
33RD	115.75	-95.0	3.4	196	75	-484.3	45.1	0	-2	-3387.2	122.8	-6.8	-177.0	-7.3
34TH	118.75	-94.7	3.4	196	75	-482.6	45.4	0	-2	-3292.5	119.4	-6.4	-166.9	-7.1
35TH	124.75	-189.8	6.7	392	150	-483.7	44.6	0	-2	-3102.7	112.7	-5.7	-147.7	-6.7
36TH	127.75	-95.1	3.3	196	75	-484.6	43.8	0	-2	-3007.6	109.4	-5.4	-138.6	-6.6
37TH	130.75	-95.2	3.2	196	75	-485.1	43.3	0	-2	-2912.4	106.1	-5.0	-129.7	-6.4
38TH	133.75	-95.3	3.2	196	75	-485.7	42.6	0	-2	-2817.1	102.9	-4.7	-121.1	-6.2
39TH	136.75	-95.4	3.2	196	75	-486.3	42.3	0	-2	-2721.6	99.8	-4.4	-112.8	-6.0
40TH	139.75	-95.6	3.1	196	75	-486.9	41.8	0	-2	-2626.1	96.6	-4.1	-104.8	-5.9
41ST	142.75	-95.7	3.1	196	75	-487.5	41.2	0	-2	-2530.4	93.5	-3.8	-97.0	-5.7
42ND	145.75	-95.8	3.1	196	75	-488.1	40.7	0	-2	-2434.6	90.5	-3.6	-89.6	-5.5
43RD	148.75	-95.9	3.0	196	75	-488.7	40.4	0	-2	-2338.7	87.5	-3.3	-82.4	-5.3
44TH	151.76	-96.4	3.1	196	75	-491.0	41.3	0	-2	-2242.4	84.4	-3.0	-75.6	-5.1
45TH	154.76	-96.8	3.2	196	75	-493.4	42.2	0	-2	-2145.6	81.2	-2.8	-69.0	-4.9
46TH	157.76	-97.3	3.2	196	75	-495.7	43.0	0	-2	-2048.3	78.0	-2.6	-62.7	-4.7
47TH	160.76	-97.7	3.3	196	75	-498.1	43.9	0	-2	-1950.6	74.7	-2.3	-56.7	-4.5
48TH	163.76	-98.2	3.4	196	75	-500.4	44.8	0	-2	-1852.4	71.3	-2.1	-51.0	-4.3
49TH	166.76	-98.7	3.4	196	75	-502.8	45.7	0	-2	-1753.7	67.9	-1.9	-45.6	-4.1
50TH	169.76	-99.1	3.5	196	75	-505.2	46.2	0	-2	-1654.6	64.4	-1.7	-40.5	-3.9
		-99.7	3.5	196	75	-507.8	46.0	0	-2					

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

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-100.2	3.4	196	75	-510.5	45.9	-0	-2	-1554.9	61.0	-1.5	-35.6	-3.7
52ND	175.76	-100.7	3.4	196	75	-513.1	45.7	-0	-2	-1454.7	57.6	-1.3	-31.1	-3.5
53RD	178.76	-101.2	3.4	196	75	-515.8	45.5	-0	-2	-1354.0	54.1	-1.2	-26.9	-3.2
54TH	181.76	-101.7	3.4	196	75	-518.5	45.4	-0	-2	-1252.8	50.7	-1.0	-23.0	-3.0
55TH	184.76	-102.3	3.4	196	75	-521.1	45.2	-0	-2	-1151.1	47.3	-0.9	-19.4	-2.8
56TH	187.76	-102.7	3.5	196	75	-523.4	46.5	-0	-2	-1049.8	43.9	-0.7	-16.1	-2.5
57TH	190.76	-103.1	3.7	196	75	-525.3	48.9	-0	-2	-946.1	40.4	-0.6	-13.1	-2.3
58TH	193.76	-103.4	3.8	196	75	-527.2	51.3	-0	-2	-843.0	36.8	-0.5	-10.4	-2.1
59TH	196.76	-103.8	4.0	196	75	-529.0	53.6	-0	-2	-739.6	32.9	-0.4	-8.1	-1.8
60TH	199.76	-104.2	4.2	196	75	-530.9	56.0	-0	-2	-635.8	28.9	-0.3	-6.0	-1.6
61ST	202.76	-104.5	4.4	196	75	-532.8	58.4	-0	-2	-531.6	24.7	-0.2	-4.2	-1.3
62ND	205.76	-104.5	4.4	196	75	-532.8	58.4	-0	-2	-427.0	20.3	-0.1	-2.8	-1.1
63RD	210.76	-175.0	7.6	327	125	-535.3	60.9	-0	-3	-252.0	12.7	-0.1	-1.1	-0.6
TOP	219.51	-252.0	12.7	572	219	-446.3	58.2	-0	-2	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 20

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-32.1	0	115	0.0	-279.2	-2	0	-6393.4	165.7	-47.5	-774.4	-19.5
2ND	6.75	0.0	-25.4	0	81	0.0	-314.2	-2	0	-6393.4	197.7	-46.3	-731.2	-19.5
3RD	11.75	0.0	-35.2	0	77	0.0	-454.1	0	0	-6393.4	223.2	-45.3	-699.3	-19.6
4TH	16.75	0.0	-45.5	0	74	0.0	-616.0	1	0	-6393.4	258.3	-44.1	-667.3	-19.6
5TH	21.75	-256.9	-94.3	491	124	-523.5	-759.8	-1	1	-6393.4	303.9	-42.6	-635.3	-19.5
6TH	30.75	-166.3	-10.0	327	115	-508.5	-87.0	-0	1	-6136.5	398.2	-39.5	-578.9	-19.9
7TH	35.75	-165.4	2.7	327	125	-505.9	21.6	0	1	-5970.2	408.2	-37.5	-548.7	-20.2
8TH	40.75	99.2	3.2	196	75	-505.4	42.2	0	1	-5804.8	405.5	-35.4	-519.2	-20.3
9TH	43.75	-99.1	4.3	196	75	-505.0	57.7	0	0	-5705.6	402.4	-34.2	-502.0	-20.4
10TH	46.75	-99.0	5.5	196	75	-504.6	73.1	-0	-0	-5606.5	398.0	-33.0	-485.0	-20.4
11TH	49.75	-99.0	6.6	196	75	-504.3	88.6	-0	-0	-5507.5	392.6	-31.8	-468.3	-20.4
12TH	52.75	-98.9	7.8	196	75	-503.9	104.0	-0	-1	-5408.5	385.9	-30.7	-452.0	-20.3
13TH	55.75	-98.7	8.2	196	75	-502.8	109.2	-0	-1	-5309.7	378.1	-29.5	-435.9	-20.3
14TH	58.75	-98.3	8.1	196	75	-500.9	108.1	-0	-1	-5211.0	369.9	-28.4	-420.1	-20.2
15TH	61.75	-97.9	8.0	196	75	-499.1	107.0	-0	-1	-5112.7	361.8	-27.3	-404.6	-20.0
16TH	64.75	-97.6	7.9	196	75	-497.2	106.0	-0	-2	-5014.8	353.8	-26.2	-389.4	-19.9
17TH	67.75	-97.2	7.9	196	75	-495.3	104.9	-0	-2	-4917.2	345.9	-25.2	-374.5	-19.7
18TH	70.75	-96.8	7.8	196	75	-493.4	103.9	-0	-2	-4820.0	338.0	-24.2	-359.9	-19.5
19TH	73.75	-96.5	7.7	196	75	-491.5	102.8	-0	-3	-4723.2	330.2	-23.2	-345.6	-19.3
20TH	76.75	-96.1	7.6	196	75	-489.6	101.7	-0	-3	-4626.7	322.5	-22.2	-331.6	-19.1
21ST	79.75	-95.7	7.5	196	75	-487.8	100.7	-0	-3	-4530.6	314.9	-21.2	-317.8	-18.8
22ND	82.75	-95.3	7.5	196	75	-485.9	99.6	-0	-3	-4434.9	307.3	-20.3	-304.4	-18.5
23RD	85.75	-95.1	7.4	196	75	-484.6	99.1	-0	-4	-4339.6	299.9	-19.4	-291.2	-18.2
24TH	88.75	-95.2	7.4	196	75	-485.0	99.2	-0	-4	-4244.5	292.4	-18.5	-278.4	-17.8
25TH	91.75	-95.2	7.4	196	75	-485.3	99.4	-0	-4	-4149.3	285.0	-17.6	-265.8	-17.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 20

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									-4054.1	277.5	-16.8	-253.5	-17.1
27TH	97.75	-95.3	7.5	196	75	-485.6	99.5	-0	-4	-3958.8	270.1	-16.0	-241.4	-16.8
28TH	100.75	-95.3	7.5	196	75	-485.9	99.6	-0	-4	-3863.5	262.6	-15.2	-229.7	-16.4
29TH	103.75	-95.4	7.5	196	75	-486.2	99.7	-0	-4	-3768.0	255.1	-14.4	-218.3	-16.0
30TH	106.75	-95.5	7.5	196	75	-486.5	99.8	-0	-4	-3672.6	247.7	-13.6	-207.1	-15.7
31ST	109.75	-95.5	7.5	196	75	-486.8	99.9	-0	-4	-3577.0	240.2	-12.9	-196.2	-15.3
32ND	112.75	-95.6	7.5	196	75	-487.2	100.0	-0	-4	-3481.4	232.7	-12.2	-185.6	-15.0
33RD	115.75	-95.7	7.5	196	75	-487.5	100.2	-0	-4	-3385.8	225.2	-11.5	-175.3	-14.6
34TH	118.75	-95.7	7.5	196	75	-487.9	99.7	-0	-4	-3290.0	217.7	-10.8	-165.3	-14.2
35TH	124.75	-102.1	14.6	392	150	-489.4	97.4	-0	-4	-3098.0	203.1	-9.6	-146.1	-13.5
36TH	127.75	-96.4	7.1	196	75	-491.0	95.0	-0	-4	-3001.6	196.0	-9.0	-137.0	-13.1
37TH	130.75	-96.6	7.0	196	75	-492.0	93.4	-0	-4	-2905.1	189.0	-8.4	-128.1	-12.7
38TH	133.75	-96.8	6.9	196	75	-493.1	91.8	-0	-4	-2808.3	182.1	-7.8	-119.6	-12.4
39TH	136.75	-97.0	6.8	196	75	-494.1	90.2	-0	-4	-2711.3	175.3	-7.3	-111.3	-12.0
40TH	139.75	-97.2	6.6	196	75	-495.2	88.6	-0	-4	-2614.2	168.7	-6.8	-103.3	-11.6
41ST	142.75	-97.4	6.5	196	75	-496.2	87.0	-0	-4	-2516.8	162.2	-6.3	-95.6	-11.2
42ND	145.75	-97.6	6.4	196	75	-497.2	85.4	-0	-4	-2419.2	155.8	-5.8	-88.2	-10.8
43RD	148.75	-97.8	6.3	196	75	-498.3	84.0	-0	-4	-2321.4	149.5	-5.4	-81.1	-10.4
44TH	148.75	-97.9	6.3	196	75	-499.1	83.4	-0	-4	-2223.5	143.2	-4.9	-74.3	-10.1
45TH	151.76	-98.1	6.2	196	75	-499.9	82.9	-0	-4	-2125.4	137.0	-4.5	-67.7	-9.7
46TH	154.76	-98.3	6.2	196	75	-500.7	82.3	-0	-4	-2027.1	130.8	-4.1	-61.5	-9.3
47TH	157.76	-98.4	6.1	196	75	-501.6	81.8	-0	-4	-1928.7	124.7	-3.7	-55.6	-8.9
48TH	160.76	-98.6	6.1	196	75	-502.4	81.2	-0	-4	-1830.1	118.6	-3.3	-49.9	-8.5
49TH	163.76	-98.7	6.0	196	75	-503.2	80.6	-0	-4	-1731.4	112.6	-3.0	-44.6	-8.0
50TH	166.76	-99.0	6.0	196	75	-504.5	80.5	-0	-4	-1632.4	106.5	-2.7	-39.6	-7.6
	169.76	-99.6	6.1	196	75	-507.5	81.1	-0	-4					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :

RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 20 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									-1532.8	100.5	-2.4	-34.8	-7.2
52ND	175.76	-100.2	6.1	196	75	-510.6	81.6	-0	-4	-1432.6	94.3	-2.1	-30.4	-6.8
53RD	178.76	-100.8	6.2	196	75	-513.6	82.2	-0	-4	-1331.8	88.2	-1.8	-26.2	-6.4
54TH	181.76	-101.4	6.2	196	75	-516.7	82.8	-0	-4	-1230.4	82.0	-1.5	-22.4	-5.9
55TH	184.76	-102.0	6.2	196	75	-519.7	83.3	-0	-4	-1128.4	75.7	-1.3	-18.8	-5.5
56TH	187.76	-102.6	6.3	196	75	-522.7	83.9	-0	-4	-1025.9	69.4	-1.1	-15.6	-5.0
57TH	190.76	-102.9	6.4	196	75	-524.2	85.2	-0	-4	-923.0	63.0	-0.9	-12.7	-4.6
58TH	193.76	-102.7	6.5	196	75	-523.6	87.1	-0	-4	-820.2	56.5	-0.7	-10.1	-4.1
59TH	196.76	-102.6	6.7	196	75	-523.0	89.0	-0	-5	-717.6	49.8	-0.5	-7.8	-3.7
60TH	199.76	-102.5	6.8	196	75	-522.4	90.9	-0	-5	-615.1	43.0	-0.4	-5.8	-3.2
61ST	202.76	-102.4	7.0	196	75	-521.8	92.8	-0	-5	-512.7	36.1	-0.3	-4.1	-2.7
62ND	205.76	-102.3	7.1	196	75	-521.2	94.6	-0	-5	-410.4	29.0	-0.2	-2.7	-2.2
63RD	210.76	-170.2	11.9	327	125	-520.4	95.6	-0	-5	-240.3	17.0	-0.1	-1.1	-1.4
TOP	219.51	-240.2	17.0	572	219	-419.8	77.9	-0	-6	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 30

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-18.3	0	115	0.0	-159.2	-4	0	-6009.4	339.3	-55.0	-725.8	-29.7
2ND	6.75	0.0	-15.3	0	81	0.0	-189.3	-3	0	-6009.4	357.6	-52.7	-685.3	-29.8
3RD	11.75	0.0	-22.5	0	77	0.0	-290.1	-1	0	-6009.4	372.9	-50.9	-655.2	-29.8
4TH	16.75	0.0	-30.0	0	74	0.0	-406.3	0	0	-6009.4	395.4	-48.9	-625.2	-29.8
5TH	21.75	-248.2	-64.9	491	124	-505.8	-522.9	-0	1	-6009.4	425.4	-46.9	-595.1	-29.8
6TH	30.75	-159.2	4.7	327	115	-486.9	40.7	-0	-0	-5761.2	490.3	-42.8	-542.2	-30.0
7TH	35.75	-157.7	15.2	327	125	-482.3	121.5	-0	-1	-5601.9	485.6	-40.3	-513.8	-29.9
8TH	40.75	-94.3	9.6	196	75	-480.4	128.0	-0	-1	-5444.2	470.4	-37.9	-486.1	-29.8
9TH	43.75	-94.0	10.0	196	75	-479.0	132.9	-0	-1	-5349.9	460.8	-36.5	-470.0	-29.7
10TH	46.75	-93.7	10.3	196	75	-477.6	137.8	-0	-2	-5255.9	450.9	-35.2	-454.0	-29.6
11TH	49.75	-93.4	10.7	196	75	-476.2	142.7	-0	-2	-5162.2	440.6	-33.8	-438.4	-29.5
12TH	52.75	-93.2	11.1	196	75	-474.8	147.5	-0	-2	-5068.8	429.9	-32.5	-423.1	-29.3
13TH	55.75	-92.9	11.1	196	75	-473.2	147.6	-0	-2	-4975.6	418.8	-31.2	-408.0	-29.1
14TH	58.75	-92.5	10.8	196	75	-471.4	144.7	-0	-3	-4882.7	407.7	-30.0	-393.2	-28.9
15TH	61.75	-92.2	10.6	196	75	-469.6	141.8	-0	-3	-4790.2	396.9	-28.8	-378.7	-28.6
16TH	64.75	-91.8	10.4	196	75	-467.8	138.9	-0	-3	-4698.1	386.3	-27.6	-364.5	-28.3
17TH	67.75	-91.4	10.2	196	75	-466.0	136.0	-0	-4	-4606.3	375.9	-26.5	-350.5	-28.0
18TH	70.75	-91.1	10.0	196	75	-464.2	133.1	-0	-4	-4514.8	365.7	-25.4	-336.8	-27.7
19TH	73.75	-90.7	9.8	196	75	-462.4	130.2	-0	-4	-4423.8	355.7	-24.3	-323.4	-27.3
20TH	76.75	-90.4	9.5	196	75	-460.6	127.3	-0	-5	-4333.0	345.9	-23.2	-310.3	-26.9
21ST	79.75	-90.0	9.3	196	75	-458.8	124.4	-0	-5	-4242.6	336.4	-22.2	-297.4	-26.5
22ND	82.75	-89.7	9.1	196	75	-457.0	121.5	-1	-5	-4152.6	327.1	-21.2	-284.8	-26.1
23RD	85.75	-89.4	8.9	196	75	-455.6	119.2	-1	-5	-4062.9	318.0	-20.2	-272.5	-25.6
24TH	88.75	-89.3	8.8	196	75	-455.2	117.5	-1	-5	-3973.5	309.0	-19.3	-260.5	-25.1
25TH	91.75	-89.3	8.7	196	75	-454.9	115.8	-1	-5	-3884.2	300.2	-18.4	-248.7	-24.6

TABLE 7 SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 30

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									-3794.9	291.5	-17.5	-237.1	-24.2
27TH	97.75	-89.2	8.6	196	75	-454.5	114.2	-1	-6	-3705.7	283.0	-16.6	-225.9	-23.7
28TH	100.75	-89.1	8.4	196	75	-454.1	112.5	-1	-6	-3616.6	274.5	-15.8	-214.9	-23.2
29TH	103.75	-89.0	8.3	196	75	-453.7	110.8	-1	-6	-3527.6	266.2	-15.0	-204.2	-22.6
30TH	106.75	-89.0	8.2	196	75	-453.3	109.2	-1	-6	-3438.6	258.0	-14.2	-193.7	-22.1
31ST	109.75	-88.9	8.1	196	75	-452.9	107.5	-1	-6	-3349.8	250.0	-13.4	-183.6	-21.6
32ND	112.75	-88.8	7.9	196	75	-452.6	105.8	-1	-6	-3260.9	242.1	-12.7	-173.6	-21.1
33RD	115.75	-88.7	7.8	196	75	-452.2	104.1	-1	-6	-3172.2	234.2	-12.0	-164.0	-20.6
34TH	118.75	-88.7	7.7	196	75	-452.1	102.5	-1	-6	-3083.5	226.6	-11.3	-154.6	-20.1
35TH	124.75	-178.6	15.0	392	150	-455.0	100.2	-0	-6	-2904.9	211.5	-10.0	-136.6	-19.0
36TH	127.75	-89.8	7.3	196	75	-457.9	97.8	-0	-6	-2815.1	204.2	-9.4	-128.1	-18.5
37TH	127.75	-90.2	7.2	196	75	-459.8	96.2	-0	-6	-2724.9	197.0	-8.8	-119.8	-17.9
38TH	130.75	-90.6	7.1	196	75	-461.7	94.7	-0	-6	-2634.3	189.9	-8.2	-111.7	-17.4
39TH	133.75	-91.0	7.0	196	75	-463.6	93.1	-0	-6	-2543.3	182.9	-7.6	-103.9	-16.8
40TH	136.75	-91.4	6.9	196	75	-465.6	91.5	-0	-6	-2451.9	176.1	-7.1	-96.5	-16.3
41ST	142.75	-91.7	6.7	196	75	-467.5	90.0	-0	-6	-2360.2	169.3	-6.6	-89.2	-15.7
42ND	145.75	-92.1	6.6	196	75	-469.4	88.4	-0	-6	-2268.1	162.7	-6.1	-82.3	-15.2
43RD	148.75	-92.5	6.5	196	75	-471.3	87.0	-0	-6	-2175.6	156.2	-5.6	-75.6	-14.6
44TH	148.75	-92.8	6.5	196	75	-472.8	87.0	-0	-6	-2082.8	149.6	-5.1	-69.2	-14.0
44TH	151.76	-93.1	6.5	196	75	-474.3	86.9	-0	-6	-1989.7	143.1	-4.7	-63.1	-13.5
45TH	154.76	-93.4	6.5	196	75	-475.8	86.8	-0	-6	-1896.4	136.6	-4.3	-57.3	-12.9
46TH	157.76	-93.6	6.5	196	75	-477.2	86.7	-0	-6	-1802.7	130.1	-3.9	-51.8	-12.3
47TH	160.76	-93.9	6.5	196	75	-478.7	86.6	-0	-6	-1708.8	123.6	-3.5	-46.5	-11.7
48TH	163.76	-94.2	6.5	196	75	-480.2	86.6	-0	-6	-1614.6	117.1	-3.1	-41.5	-11.1
49TH	166.76	-94.5	6.5	196	75	-481.4	86.3	-0	-6	-1520.1	110.7	-2.8	-36.8	-10.5
50TH	169.76	-94.5	6.4	196	75	-481.6	85.8	-0	-6					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 30 CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-94.5	6.4	196	75	-481.7	85.2	-0	-6	-1425.6	104.2	-2.5	-32.4	-9.9
52ND	175.76	-94.6	6.3	196	75	-481.9	84.7	-0	-6	-1331.1	97.9	-2.2	-28.2	-9.3
53RD	178.76	-94.6	6.3	196	75	-482.1	84.1	-0	-7	-1236.5	91.5	-1.9	-24.4	-8.7
54TH	181.76	-94.6	6.3	196	75	-482.2	83.6	-0	-7	-1141.9	85.2	-1.6	-20.8	-8.1
55TH	184.76	-94.7	6.2	196	75	-482.4	83.0	-0	-7	-1047.3	78.9	-1.4	-17.5	-7.4
56TH	187.76	-94.7	6.4	196	75	-482.6	84.9	-0	-7	-952.6	72.7	-1.1	-14.5	-6.8
57TH	190.76	-94.7	6.6	196	75	-482.8	88.2	-0	-7	-857.9	66.4	-.9	-11.8	-6.2
58TH	193.76	-94.8	6.9	196	75	-483.0	91.6	-0	-7	-763.2	59.7	-.7	-9.4	-5.5
59TH	196.76	-94.8	7.1	196	75	-483.3	95.0	-1	-7	-668.4	52.9	-.6	-7.2	-4.9
60TH	199.76	-94.9	7.4	196	75	-483.5	98.4	-1	-7	-573.5	45.7	-.4	-5.4	-4.2
61ST	202.76	-94.9	7.6	196	75	-483.7	101.8	-1	-7	-478.7	38.4	-.3	-3.8	-3.6
62ND	205.76	-158.3	13.0	327	125	-484.0	104.2	-1	-7	-383.7	30.7	-.2	-2.5	-2.9
63RD	210.76	-225.5	17.7	572	219	-393.9	81.0	-1	-8	-225.5	17.7	-.1	-1.0	-1.8
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 40

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-5316.4	736.4	-98.9	-635.1	-38.8
2ND	6.75	0.0	-5.6	0	115	0.0	-48.6	-15	0	-5316.4	742.0	-93.9	-599.2	-38.8
3RD	11.75	0.0	-4.3	0	81	0.0	-53.5	-9	0	-5316.4	746.3	-90.2	-572.7	-38.9
4TH	16.75	0.0	-8.5	0	77	0.0	-109.7	-4	0	-5316.4	754.8	-86.4	-546.1	-38.9
5TH	21.75	0.0	-13.1	0	74	0.0	-177.6	-3	0	-5316.4	768.0	-82.6	-519.5	-39.0
6TH	26.75	-235.9	-31.7	491	124	-480.7	-255.6	0	-0	-5080.5	799.7	-75.5	-472.7	-38.9
7TH	30.75	-151.2	18.3	327	115	-462.4	158.5	-0	-1	-4929.3	781.4	-71.6	-447.7	-38.7
7TH	35.75	-149.3	26.0	327	125	-456.5	207.7	-0	-2	-4780.0	755.5	-67.7	-423.4	-38.4
8TH	40.75	-88.9	15.2	196	75	-453.2	203.1	-0	-2	-4691.0	740.3	-65.5	-409.2	-38.2
9TH	43.75	-88.5	15.0	196	75	-450.8	199.6	-0	-3	-4602.6	725.3	-63.3	-395.3	-37.9
10TH	46.75	-88.0	14.7	196	75	-448.4	196.1	-1	-3	-4514.6	710.6	-61.1	-381.6	-37.6
11TH	49.75	-87.5	14.4	196	75	-446.0	192.7	-1	-4	-4427.1	696.1	-59.0	-368.2	-37.3
12TH	52.75	-87.0	14.2	196	75	-443.6	189.2	-1	-4	-4340.0	682.0	-57.0	-355.0	-37.0
13TH	55.75	-86.3	13.9	196	75	-439.7	185.9	-1	-4	-4253.7	668.0	-54.9	-342.1	-36.6
14TH	58.75	-85.2	13.7	196	75	-434.1	182.8	-1	-5	-4168.5	654.3	-53.0	-329.5	-36.2
15TH	61.75	-84.1	13.5	196	75	-428.6	179.7	-1	-5	-4084.4	640.8	-51.0	-317.1	-35.8
16TH	64.75	-83.0	13.2	196	75	-423.0	176.5	-1	-5	-4001.4	627.6	-49.1	-305.0	-35.3
17TH	67.75	-81.9	13.0	196	75	-417.4	173.4	-1	-6	-3919.5	614.6	-47.3	-293.1	-34.9
18TH	70.75	-80.8	12.8	196	75	-411.8	170.3	-1	-6	-3838.7	601.8	-45.4	-281.5	-34.4
19TH	73.75	-79.7	12.5	196	75	-406.2	167.1	-1	-6	-3759.0	589.3	-43.6	-270.1	-33.9
20TH	76.75	-78.6	12.3	196	75	-400.6	164.0	-1	-7	-3680.4	577.0	-41.9	-258.9	-33.3
21ST	79.75	-77.5	12.1	196	75	-395.1	160.9	-1	-7	-3602.9	565.0	-40.2	-248.0	-32.7
22ND	82.75	-76.4	11.8	196	75	-389.5	157.7	-1	-8	-3526.4	553.1	-38.5	-237.3	-32.2
23RD	85.75	-75.7	11.7	196	75	-385.8	155.8	-1	-8	-3450.7	541.5	-36.9	-226.8	-31.6
24TH	88.75	-75.8	11.6	196	75	-386.5	155.3	-1	-8	-3374.9	529.8	-35.3	-216.6	-30.9
25TH	91.75	-76.0	11.6	196	75	-387.3	154.8	-1	-8					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 40

RHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	-76.1	11.6	196	75	-388.0	154.3	-1	-8	-3298.9	518.2	-33.7	-206.6	-30.3
27TH	97.75	-76.3	11.5	196	75	-388.8	153.8	-1	-8	-3222.8	506.6	-32.1	-196.8	-29.7
28TH	100.75	-76.4	11.5	196	75	-389.5	153.3	-1	-8	-3146.5	495.1	-30.6	-187.2	-29.1
29TH	103.75	-76.6	11.5	196	75	-390.2	152.8	-1	-8	-3070.0	483.6	-29.2	-177.9	-28.4
30TH	106.75	-76.7	11.4	196	75	-391.0	152.3	-1	-8	-2993.5	472.2	-27.7	-168.8	-27.8
31ST	109.75	-76.9	11.4	196	75	-391.7	151.8	-1	-8	-2916.7	460.8	-26.3	-159.9	-27.1
32ND	112.75	-77.0	11.3	196	75	-392.5	151.3	-1	-8	-2839.9	449.4	-25.0	-151.3	-26.5
33RD	115.75	-77.2	11.3	196	75	-393.3	151.0	-1	-9	-2762.8	438.0	-23.6	-142.9	-25.8
34TH	118.75	-155.2	22.7	392	150	-395.5	151.5	-1	-9	-2685.7	426.7	-22.3	-134.7	-25.1
35TH	124.75	-78.0	11.4	196	75	-397.6	152.0	-1	-9	-2530.5	404.0	-19.9	-119.1	-23.8
36TH	127.75	-78.3	11.4	196	75	-399.0	152.4	-1	-9	-2452.4	392.6	-18.7	-111.6	-23.1
37TH	130.75	-78.6	11.4	196	75	-400.5	152.7	-1	-9	-2374.1	381.2	-17.5	-104.4	-22.4
38TH	133.75	-78.9	11.5	196	75	-401.9	153.1	-1	-9	-2295.6	369.7	-16.4	-97.4	-21.7
39TH	136.75	-79.1	11.5	196	75	-403.3	153.4	-1	-9	-2216.7	358.3	-15.3	-90.6	-21.0
40TH	139.75	-79.4	11.5	196	75	-404.7	153.7	-1	-9	-2137.6	346.8	-14.2	-84.1	-20.2
41ST	142.75	-79.7	11.6	196	75	-406.2	154.1	-1	-9	-2058.1	335.2	-13.2	-77.8	-19.5
42ND	145.75	-80.0	11.6	196	75	-407.6	154.8	-1	-9	-1978.4	323.7	-12.2	-71.7	-18.8
43RD	148.75	-80.4	11.8	196	75	-409.6	157.6	-1	-9	-1898.4	312.1	-11.3	-65.9	-18.1
44TH	151.76	-80.8	12.0	196	75	-411.6	160.3	-1	-9	-1818.1	300.3	-10.3	-60.3	-17.3
45TH	154.76	-81.2	12.2	196	75	-413.6	163.1	-1	-9	-1737.3	288.3	-9.5	-55.0	-16.6
46TH	157.76	-81.6	12.4	196	75	-415.6	165.9	-1	-9	-1656.1	276.0	-8.6	-49.9	-15.8
47TH	160.76	-82.0	12.6	196	75	-417.6	168.7	-1	-9	-1574.6	263.6	-7.8	-45.1	-15.1
48TH	163.76	-82.4	12.9	196	75	-419.7	171.5	-1	-9	-1492.6	250.9	-7.0	-40.5	-14.3
49TH	166.76	-82.7	13.0	196	75	-421.4	173.6	-1	-9	-1410.3	238.1	-6.3	-36.1	-13.5
50TH	169.76	-82.8	13.1	196	75	-422.1	174.6	-1	-9	-1327.6	225.1	-5.6	-32.0	-12.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 40

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-83.0	13.2	196	75	-422.8	175.7	-1	-9	-1244.7	212.0	-4.9	-28.1	-12.0
52ND	175.76	-83.1	13.2	196	75	-423.4	176.7	-1	-9	-1161.8	198.8	-4.3	-24.5	-11.2
53RD	178.76	-83.2	13.3	196	75	-424.1	177.7	-1	-9	-1078.7	185.6	-3.7	-21.2	-10.4
54TH	181.76	-83.4	13.4	196	75	-424.8	178.7	-1	-9	-995.5	172.2	-3.2	-18.0	-9.6
55TH	184.76	-83.5	13.5	196	75	-425.5	179.8	-1	-9	-912.1	158.8	-2.7	-15.2	-8.8
56TH	187.76	-83.5	13.6	196	75	-425.5	181.9	-2	-9	-828.6	145.4	-2.3	-12.6	-8.1
57TH	190.76	-83.3	13.9	196	75	-424.5	184.8	-2	-9	-745.1	131.7	-1.8	-10.2	-7.3
58TH	193.76	-83.1	14.1	196	75	-423.6	187.6	-2	-9	-661.8	117.9	-1.5	-8.1	-6.5
59TH	196.76	-82.9	14.3	196	75	-422.6	190.5	-2	-9	-578.7	103.8	-1.1	-6.2	-5.7
60TH	199.76	-82.8	14.5	196	75	-421.7	193.3	-2	-9	-495.7	89.5	-.8	-4.6	-4.9
61ST	202.76	-82.6	14.7	196	75	-420.7	196.2	-2	-9	-413.0	75.0	-.6	-3.3	-4.1
62ND	205.76	-137.2	24.6	327	125	-419.5	197.1	-2	-9	-330.4	60.3	-.4	-2.2	-3.3
63RD	210.76	-193.2	35.7	572	219	-337.7	163.3	-2	-10	-193.2	35.7	-.2	-.8	-2.0
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 50 CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	9.2	0	115	0.0	79.7	9	0	-4761.7	971.8	-116.0	-570.9	-45.7
2ND	6.75	0.0	7.6	0	81	0.0	93.9	7	0	-4761.7	962.7	-109.5	-538.8	-45.7
3RD	11.75	0.0	5.2	0	77	0.0	67.5	11	0	-4761.7	955.1	-104.7	-515.0	-45.8
4TH	16.75	0.0	2.4	0	74	0.0	32.5	29	0	-4761.7	949.8	-99.9	-491.1	-45.8
5TH	21.75	-215.7	-1.2	491	124	-439.4	-9.7	0	-0	-4761.7	947.4	-95.2	-467.3	-45.9
6TH	30.75	-138.5	27.8	327	115	-423.6	241.5	-0	-1	-4546.0	948.6	-86.6	-425.5	-45.9
7TH	35.75	-136.3	33.7	327	125	-416.8	269.4	-1	-2	-4407.4	920.8	-82.0	-403.1	-45.7
8TH	40.75	-80.9	20.0	196	75	-412.3	266.2	-1	-3	-4271.1	887.2	-77.4	-381.4	-45.4
9TH	43.75	-80.2	19.8	196	75	-408.9	263.0	-1	-3	-4190.2	867.2	-74.8	-368.7	-45.2
10TH	46.75	-79.6	19.6	196	75	-405.5	261.4	-1	-4	-4110.0	847.4	-72.2	-356.2	-44.9
11TH	49.75	-78.9	19.4	196	75	-402.1	259.0	-1	-4	-4030.4	827.9	-69.7	-344.0	-44.6
12TH	52.75	-78.3	19.2	196	75	-398.8	256.6	-1	-5	-3951.5	808.4	-67.3	-332.0	-44.3
13TH	55.75	-77.2	18.8	196	75	-393.4	251.3	-1	-5	-3873.3	789.2	-64.9	-320.3	-43.9
14TH	58.75	-75.7	18.3	196	75	-385.7	244.2	-1	-6	-3796.1	770.4	-62.5	-308.8	-43.5
15TH	61.75	-74.2	17.8	196	75	-378.1	237.2	-1	-6	-3720.4	752.1	-60.2	-297.5	-43.0
16TH	64.75	-72.7	17.3	196	75	-370.4	230.1	-2	-7	-3646.2	734.3	-58.0	-286.5	-42.5
17TH	67.75	-71.2	16.7	196	75	-362.7	223.1	-2	-7	-3573.5	717.0	-55.8	-275.6	-42.0
18TH	70.75	-69.7	16.2	196	75	-355.0	216.0	-2	-8	-3502.3	700.3	-53.7	-265.0	-41.5
19TH	73.75	-68.2	15.7	196	75	-347.3	209.0	-2	-8	-3432.7	684.1	-51.6	-254.6	-40.9
20TH	76.75	-66.6	15.1	196	75	-339.6	201.9	-2	-9	-3364.5	668.4	-49.6	-244.4	-40.3
21ST	79.75	-65.1	14.6	196	75	-332.0	194.9	-2	-9	-3297.8	653.3	-47.6	-234.4	-39.7
22ND	82.75	-63.6	14.1	196	75	-324.3	187.8	-2	-10	-3232.7	638.7	-45.7	-224.6	-39.1
23RD	85.75	-62.8	13.7	196	75	-319.8	182.5	-2	-11	-3169.1	624.6	-43.8	-215.0	-38.4
24TH	88.75	-63.4	13.4	196	75	-323.1	179.1	-2	-11	-3106.3	610.9	-41.9	-205.6	-37.7
25TH	91.75	-64.0	13.2	196	75	-326.3	175.7	-2	-11	-3042.9	597.5	-40.1	-196.4	-37.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 50

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75			196	75	-329.5	172.2	-2	-11	-2978.9	584.3	-38.4	-187.4	-36.3
27TH	97.75	-64.7	12.9	196	75	-332.7	168.8	-2	-11	-2914.2	571.4	-36.6	-178.5	-35.5
28TH	100.75	-65.3	12.7	196	75	-335.9	165.4	-2	-11	-2848.9	558.8	-34.9	-169.9	-34.8
29TH	103.75	-65.9	12.4	196	75	-339.2	162.0	-2	-11	-2783.0	546.4	-33.3	-161.4	-34.0
30TH	106.75	-66.6	12.1	196	75	-342.4	158.6	-2	-11	-2716.5	534.2	-31.6	-153.2	-33.2
31ST	109.75	-67.2	11.9	196	75	-345.6	155.2	-2	-12	-2649.3	522.3	-30.1	-145.1	-32.5
32ND	112.75	-67.8	11.6	196	75	-348.8	151.8	-2	-12	-2581.5	510.7	-28.5	-137.3	-31.6
33RD	115.75	-68.4	11.4	196	75	-351.9	150.2	-2	-12	-2513.0	499.3	-27.0	-129.7	-30.8
34TH	118.75	-69.1	11.3	196	75	-355.6	153.9	-2	-12	-2444.0	488.1	-25.5	-122.2	-30.0
35TH	124.75	-139.6	23.1	392	150	-355.6	153.9	-2	-12	-2304.4	465.0	-22.7	-108.0	-28.3
36TH	127.75	-70.5	11.8	196	75	-359.3	157.6	-2	-12	-2233.9	453.2	-21.3	-101.2	-27.5
37TH	127.75	-71.0	12.0	196	75	-361.8	160.1	-2	-12	-2162.9	441.2	-19.9	-94.6	-26.6
38TH	130.75	-71.5	12.2	196	75	-364.2	162.6	-2	-12	-2091.4	429.0	-18.6	-88.2	-25.7
39TH	133.75	-72.0	12.4	196	75	-366.7	165.0	-2	-12	-2019.5	416.6	-17.4	-82.0	-24.9
40TH	136.75	-72.4	12.6	196	75	-369.2	167.5	-2	-12	-1947.0	404.0	-16.1	-76.1	-24.0
41ST	139.75	-72.9	12.7	196	75	-371.6	170.0	-2	-12	-1874.1	391.3	-14.9	-70.3	-23.1
42ND	142.75	-73.4	12.9	196	75	-374.1	172.5	-2	-12	-1800.7	378.4	-13.8	-64.8	-22.2
43RD	145.75	-73.9	13.2	196	75	-376.5	175.6	-2	-12	-1726.8	365.2	-12.7	-59.5	-21.3
44TH	148.75	-74.3	13.7	196	75	-378.4	182.7	-2	-12	-1652.5	351.5	-11.6	-54.5	-20.4
45TH	151.76	-74.6	14.2	196	75	-380.3	189.8	-2	-12	-1577.9	337.3	-10.6	-49.6	-19.5
46TH	154.76	-75.0	14.8	196	75	-382.1	196.9	-2	-12	-1502.9	322.5	-9.6	-45.0	-18.6
47TH	157.76	-75.3	15.3	196	75	-384.0	204.0	-2	-12	-1427.6	307.2	-8.6	-40.6	-17.7
48TH	160.76	-75.7	15.8	196	75	-385.8	211.0	-2	-12	-1351.9	291.4	-7.7	-36.4	-16.8
49TH	163.76	-76.1	16.4	196	75	-387.7	218.1	-3	-12	-1275.8	275.1	-6.9	-32.5	-15.8
50TH	166.76	-76.3	16.7	196	75	-389.0	222.4	-3	-12	-1199.5	258.4	-6.1	-28.8	-14.9
	169.76	-76.2	16.7	196	75	-388.2	222.1	-3	-12					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 50 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									-1123.3	241.7	-5.3	-25.3	-14.0
52ND	175.76	-76.0	16.6	196	75	-387.4	221.8	-3	-12	-1047.3	225.1	-4.6	-22.0	-13.0
53RD	178.76	-75.9	16.6	196	75	-386.6	221.5	-3	-12	-971.4	208.5	-4.0	-19.0	-12.1
54TH	181.76	-75.7	16.6	196	75	-385.9	221.2	-3	-12	-895.7	191.9	-3.4	-16.2	-11.2
55TH	184.76	-75.6	16.6	196	75	-385.1	220.9	-3	-12	-820.1	175.4	-2.8	-13.6	-10.3
56TH	187.76	-75.4	16.5	196	75	-384.3	220.6	-3	-12	-744.7	158.8	-2.3	-11.3	-9.3
57TH	190.76	-75.2	16.6	196	75	-383.4	220.8	-3	-12	-669.5	142.3	-1.9	-9.2	-8.4
58TH	193.76	-75.1	16.6	196	75	-382.5	221.3	-3	-12	-594.4	125.7	-1.5	-7.3	-7.5
59TH	196.76	-74.9	16.6	196	75	-381.6	221.9	-3	-12	-519.5	109.0	-1.1	-5.6	-6.6
60TH	199.76	-74.7	16.7	196	75	-380.6	222.4	-3	-12	-444.9	92.4	-.8	-4.1	-5.6
61ST	202.76	-74.5	16.7	196	75	-379.7	223.0	-3	-12	-370.4	75.7	-.6	-2.9	-4.7
62ND	205.76	-74.3	16.8	196	75	-378.7	223.5	-3	-12	-296.0	58.9	-.4	-1.9	-3.8
63RD	210.76	-123.5	27.3	327	125	-377.5	218.9	-3	-12	-172.6	31.5	-.1	-.8	-2.3
TOP	219.51	-172.6	31.5	572	219	-301.5	144.3	-2	-13	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 60

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-4306.0	802.1	-74.1	-533.6	-52.6
2ND	6.75	0.0	20.5	0	115	0.0	178.5	3	0	-4306.0	781.5	-68.7	-504.5	-52.7
3RD	11.75	0.0	17.0	0	81	0.0	210.4	3	0	-4306.0	764.5	-64.9	-483.0	-52.7
4TH	16.75	0.0	15.3	0	77	0.0	197.9	4	0	-4306.0	749.2	-61.1	-461.4	-52.8
5TH	21.75	0.0	13.0	0	74	0.0	176.5	5	0	-4306.0	736.1	-57.4	-439.9	-52.8
6TH	26.75	-178.9	19.3	491	124	-364.4	155.7	0	0	-4127.2	716.8	-50.8	-402.0	-52.9
7TH	30.75	-113.3	39.2	327	115	-346.6	340.4	-0	-1	-4013.8	677.6	-47.3	-381.6	-52.7
8TH	35.75	-110.4	44.7	327	125	-337.7	357.7	-1	-2	-3903.4	632.9	-44.1	-361.8	-52.4
9TH	40.75	-65.0	26.5	196	75	-331.4	353.0	-1	-3	-3838.4	606.5	-42.2	-350.2	-52.2
10TH	43.75	-64.1	26.2	196	75	-326.8	349.5	-1	-3	-3774.2	580.3	-40.4	-338.8	-51.9
11TH	46.75	-63.2	25.9	196	75	-322.1	345.9	-2	-4	-3711.0	554.3	-38.7	-327.6	-51.7
12TH	49.75	-62.3	25.7	196	75	-317.5	342.4	-2	-4	-3648.7	528.7	-37.1	-316.5	-51.4
13TH	52.75	-61.4	25.4	196	75	-312.8	338.9	-2	-5	-3587.4	503.3	-35.5	-305.7	-51.0
14TH	55.75	-60.6	24.4	196	75	-309.0	325.1	-2	-5	-3526.7	478.9	-34.1	-295.0	-50.6
15TH	58.75	-60.1	22.9	196	75	-306.2	305.2	-2	-6	-3466.6	456.0	-32.7	-284.5	-50.2
16TH	61.75	-59.5	21.4	196	75	-303.4	285.3	-2	-7	-3407.1	434.6	-31.3	-274.2	-49.8
17TH	64.75	-59.0	19.9	196	75	-300.6	265.4	-3	-7	-3348.1	414.7	-30.1	-264.1	-49.3
18TH	67.75	-58.4	18.4	196	75	-297.8	245.6	-3	-8	-3289.7	396.3	-28.8	-254.1	-48.7
19TH	70.75	-57.9	16.9	196	75	-295.0	225.7	-3	-9	-3231.8	379.4	-27.7	-244.3	-48.2
20TH	73.75	-57.3	15.4	196	75	-292.2	205.8	-3	-10	-3174.5	364.0	-26.6	-234.7	-47.6
21ST	76.75	-56.8	13.9	196	75	-289.4	185.9	-3	-11	-3117.7	350.0	-25.5	-225.3	-46.9
22ND	79.75	-56.2	12.4	196	75	-286.6	166.0	-3	-12	-3061.4	337.6	-24.5	-216.0	-46.2
23RD	82.75	-55.7	11.0	196	75	-283.8	146.2	-2	-12	-3005.7	326.6	-23.5	-206.9	-45.5
24TH	85.75	-55.6	9.9	196	75	-283.3	131.8	-2	-13	-2950.1	316.7	-22.5	-198.0	-44.8
25TH	88.75	-56.6	9.3	196	75	-288.4	123.7	-2	-13	-2893.5	307.5	-21.6	-189.2	-44.0
	91.75	-57.6	8.7	196	75	-293.4	115.6	-2	-14					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 60

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	-58.6	8.1	196	75	-298.4	107.5	-2	-14	-2836.0	298.8	-20.7	-180.6	-43.2
27TH	97.75	-59.5	7.4	196	75	-303.4	99.4	-2	-14	-2777.4	290.7	-19.8	-172.2	-42.3
28TH	100.75	-60.5	6.8	196	75	-308.4	91.3	-2	-14	-2717.9	283.3	-18.9	-163.9	-41.5
29TH	103.75	-61.5	6.2	196	75	-313.4	83.1	-1	-15	-2657.4	276.5	-18.1	-155.9	-40.6
30TH	106.75	-62.5	5.6	196	75	-318.4	75.0	-1	-15	-2595.9	270.2	-17.2	-148.0	-39.7
31ST	109.75	-63.5	5.0	196	75	-323.5	66.9	-1	-15	-2533.4	264.6	-16.4	-140.3	-38.7
32ND	112.75	-64.5	4.4	196	75	-328.5	58.8	-1	-15	-2469.9	259.6	-15.7	-132.8	-37.8
33RD	115.75	-65.4	4.0	196	75	-333.0	53.5	-1	-16	-2405.4	255.2	-14.9	-125.5	-36.8
34TH	118.75	-131.7	8.2	392	150	-335.6	54.7	-1	-15	-2340.1	251.2	-14.1	-118.4	-35.8
35TH	124.75	-66.4	4.2	196	75	-338.1	55.9	-1	-15	-2298.4	243.0	-12.6	-104.7	-33.7
36TH	127.75	-66.7	4.3	196	75	-339.8	56.7	-1	-15	-2142.0	238.8	-11.9	-98.2	-32.7
37TH	130.75	-66.7	4.3	196	75	-339.8	56.7	-1	-15	-2075.3	234.5	-11.2	-91.9	-31.6
38TH	133.75	-67.0	4.3	196	75	-341.5	57.5	-1	-15	-2008.3	230.2	-10.5	-85.7	-30.6
38TH	133.75	-67.4	4.4	196	75	-343.2	58.4	-1	-15	-2008.3	230.2	-10.5	-85.7	-30.6
39TH	136.75	-67.4	4.4	196	75	-343.2	58.4	-1	-15	-1941.0	225.8	-9.8	-79.8	-29.5
40TH	139.75	-67.7	4.4	196	75	-344.9	59.2	-1	-15	-1873.3	221.4	-9.2	-74.1	-28.5
41ST	142.75	-68.0	4.5	196	75	-346.6	60.0	-1	-15	-1805.3	216.9	-8.5	-68.6	-27.4
42ND	145.75	-68.4	4.6	196	75	-348.3	60.8	-1	-15	-1736.9	212.3	-7.9	-63.3	-26.4
43RD	148.75	-68.7	4.8	196	75	-350.0	63.6	-1	-15	-1668.2	207.6	-7.2	-58.2	-25.3
44TH	151.76	-69.3	5.9	196	75	-353.0	78.1	-1	-15	-1598.9	201.7	-6.6	-53.3	-24.2
45TH	154.76	-69.8	6.9	196	75	-355.9	92.5	-2	-15	-1529.1	194.8	-6.0	-48.6	-23.2
46TH	157.76	-70.4	8.0	196	75	-358.9	107.0	-2	-15	-1458.7	186.7	-5.4	-44.1	-22.1
47TH	160.76	-71.0	9.1	196	75	-361.8	121.5	-2	-15	-1387.7	177.6	-4.9	-39.8	-21.0
48TH	163.76	-71.6	10.2	196	75	-364.8	135.9	-2	-15	-1316.1	167.5	-4.4	-35.8	-19.9
49TH	166.76	-72.2	11.3	196	75	-367.7	150.4	-2	-15	-1244.0	156.2	-3.9	-31.9	-18.8
49TH	166.76	-72.7	11.7	196	75	-370.2	156.2	-2	-15	-1244.0	156.2	-3.9	-31.9	-18.8
50TH	169.76	-72.8	11.1	196	75	-371.1	147.6	-2	-15	-1171.3	144.5	-3.4	-28.3	-17.7

TABLE 7 SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 60°
CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									-1098.5	133.4	-3.0	-24.9	-16.6
52ND	175.76	-73.0	10.4	196	75	-372.1	139.0	-2	-15	-1025.5	123.0	-2.6	-21.7	-15.5
53RD	178.76	-73.2	9.8	196	75	-373.0	130.4	-2	-15	-952.3	113.2	-2.3	-18.7	-14.4
54TH	181.76	-73.4	9.1	196	75	-373.9	121.8	-2	-15	-878.9	104.1	-2.0	-16.0	-13.3
55TH	184.76	-73.5	8.5	196	75	-374.8	113.2	-2	-15	-805.4	95.6	-1.7	-13.5	-12.1
56TH	187.76	-73.7	7.8	196	75	-375.7	104.6	-2	-15	-731.6	87.8	-1.4	-11.2	-11.0
57TH	187.76	-73.7	7.7	196	75	-375.5	103.2	-2	-15	-657.9	80.0	-1.1	-9.1	-9.9
57TH	190.76	-73.4	8.0	196	75	-373.8	106.5	-2	-15	-584.6	72.0	-.9	-7.2	-8.8
58TH	193.76	-73.0	8.2	196	75	-372.2	109.9	-2	-15	-511.5	63.8	-.7	-5.6	-7.7
59TH	196.76	-72.7	8.5	196	75	-370.5	113.2	-2	-15	-438.8	55.3	-.5	-4.1	-6.6
60TH	199.76	-72.4	8.7	196	75	-368.9	116.6	-2	-15	-366.4	46.6	-.4	-2.9	-5.5
61ST	202.76	-72.1	9.0	196	75	-367.2	119.9	-2	-15	-294.4	37.6	-.2	-1.9	-4.4
62ND	205.76	-119.4	15.3	327	125	-365.0	122.4	-2	-15	-175.0	22.3	-.1	-.8	-2.6
63RD	210.76	-175.0	22.3	572	219	-305.8	101.9	-2	-15	0.0	0.0	0.0	0.0	0.0
TOP	219.51													

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 70

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	28.8	0	115	0.0	250.4	1	0	-3360.0	743.0	-53.9	-425.6	-54.3
2ND	6.75	0.0	23.3	0	81	0.0	288.2	2	0	-3360.0	714.3	-49.0	-403.0	-54.3
3RD	11.75	0.0	22.3	0	77	0.0	287.9	2	0	-3360.0	690.9	-45.5	-386.2	-54.3
4TH	16.75	0.0	20.9	0	74	0.0	282.7	3	0	-3360.0	668.6	-42.1	-369.4	-54.4
5TH	21.75	-134.8	35.0	491	124	-274.7	281.8	-0	-0	-3360.0	647.7	-38.8	-352.6	-54.4
6TH	30.75	-85.6	41.0	327	115	-261.8	356.0	-1	-2	-3225.2	612.8	-33.1	-322.9	-54.4
7TH	35.75	-83.3	45.1	327	125	-254.8	360.6	-1	-2	-3139.6	571.8	-30.2	-307.0	-54.2
8TH	40.75	-49.0	26.7	196	75	-249.8	356.5	-2	-3	-3056.3	526.7	-27.4	-291.5	-54.0
9TH	43.75	-48.3	26.5	196	75	-246.1	353.4	-2	-3	-3007.2	500.0	-25.9	-282.4	-53.8
10TH	46.75	-47.5	26.3	196	75	-242.3	350.3	-2	-4	-2958.9	473.5	-24.4	-273.5	-53.6
11TH	49.75	-46.8	26.0	196	75	-242.3	350.3	-2	-4	-2911.4	447.2	-23.1	-264.7	-53.3
12TH	52.75	-46.1	25.8	196	75	-238.6	347.2	-2	-4	-2864.6	421.2	-21.8	-256.0	-53.1
13TH	55.75	-45.4	24.9	196	75	-234.8	344.1	-3	-5	-2818.5	395.4	-20.5	-247.5	-52.8
14TH	58.75	-44.8	23.6	196	75	-231.4	332.3	-3	-5	-2773.1	370.5	-19.4	-239.1	-52.4
15TH	61.75	-44.2	22.4	196	75	-228.3	315.3	-3	-6	-2728.3	346.9	-18.3	-230.8	-52.1
16TH	64.75	-43.6	21.1	196	75	-225.2	298.2	-4	-7	-2684.1	324.5	-17.3	-222.7	-51.7
17TH	67.75	-43.0	19.8	196	75	-222.2	281.2	-4	-8	-2640.5	303.4	-16.4	-214.7	-51.3
18TH	70.75	-42.4	18.5	196	75	-219.1	264.2	-4	-9	-2597.5	283.6	-15.5	-206.9	-50.8
19TH	73.75	-41.8	17.3	196	75	-216.1	247.1	-4	-10	-2555.1	265.1	-14.6	-199.2	-50.3
20TH	76.75	-41.2	16.0	196	75	-213.0	230.1	-5	-11	-2513.3	247.9	-13.9	-191.6	-49.8
21ST	79.75	-40.6	14.7	196	75	-210.0	213.1	-5	-12	-2472.1	231.9	-13.2	-184.1	-49.2
22ND	82.75	-40.0	13.4	196	75	-206.9	196.0	-5	-13	-2431.5	217.2	-12.5	-176.7	-48.6
23RD	85.75	-39.8	12.4	196	75	-203.8	179.0	-5	-15	-2391.5	203.8	-11.9	-169.5	-48.0
24TH	88.75	-40.7	11.5	196	75	-203.0	164.8	-5	-16	-2351.7	191.4	-11.3	-162.4	-47.3
25TH	91.75	-41.6	10.7	196	75	-207.4	153.9	-5	-16	-2311.0	179.9	-10.7	-155.4	-46.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 70

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	-42.4	9.9	196	75	-216.2	132.1	-4	-17	-2269.4	169.1	-10.2	-148.5	-45.8
27TH	97.75	-43.3	9.1	196	75	-220.6	121.2	-4	-18	-2227.0	159.2	-9.7	-141.8	-45.0
28TH	100.75	-44.1	8.3	196	75	-224.9	110.3	-3	-18	-2183.7	150.1	-9.2	-135.1	-44.2
29TH	103.75	-45.0	7.5	196	75	-229.3	99.4	-3	-19	-2139.6	141.9	-8.8	-128.7	-43.4
30TH	106.75	-45.9	6.6	196	75	-233.7	88.5	-3	-19	-2094.6	134.4	-8.4	-122.3	-42.5
31ST	109.75	-46.7	5.8	196	75	-238.1	77.6	-2	-20	-2048.7	127.8	-8.0	-116.1	-41.6
32ND	112.75	-47.6	5.0	196	75	-242.5	66.7	-2	-20	-2002.0	122.0	-7.6	-110.0	-40.7
33RD	115.75	-48.4	4.3	196	75	-246.8	57.7	-2	-20	-1954.4	117.0	-7.2	-104.1	-39.7
34TH	118.75	-49.0	3.6	392	150	-252.3	50.8	-2	-20	-1906.0	112.6	-6.9	-98.3	-38.7
35TH	124.75	-50.6	3.3	196	75	-257.8	43.8	-1	-21	-1806.9	105.0	-6.2	-87.1	-36.7
36TH	127.75	-51.3	2.9	196	75	-261.5	39.2	-1	-21	-1756.4	101.8	-5.9	-81.8	-35.7
37TH	130.75	-52.0	2.6	196	75	-265.2	34.5	-1	-21	-1705.0	98.8	-5.6	-76.6	-34.6
38TH	133.75	-52.8	2.2	196	75	-268.9	29.9	-1	-21	-1653.0	96.2	-5.3	-71.6	-33.5
39TH	136.75	-53.5	1.9	196	75	-272.6	25.2	-1	-21	-1600.2	94.0	-5.1	-66.7	-32.4
40TH	139.75	-54.2	1.5	196	75	-276.3	20.6	-1	-21	-1546.7	92.1	-4.8	-62.0	-31.3
41ST	142.75	-54.9	1.2	196	75	-280.0	16.0	-0	-21	-1492.5	90.6	-4.5	-57.4	-30.1
42ND	145.75	-55.7	1.0	196	75	-283.7	12.8	-0	-21	-1437.6	89.4	-4.2	-53.0	-28.9
43RD	148.75	-56.2	1.3	196	75	-286.4	17.9	-1	-21	-1381.9	88.4	-4.0	-48.8	-27.8
44TH	151.76	-56.8	1.7	196	75	-289.2	23.1	-1	-21	-1325.7	87.1	-3.7	-44.7	-26.5
45TH	154.76	-57.3	2.1	196	75	-292.0	28.2	-1	-22	-1268.9	85.3	-3.4	-40.8	-25.3
46TH	157.76	-57.8	2.5	196	75	-294.8	33.4	-1	-22	-1211.6	83.2	-3.2	-37.1	-24.1
47TH	160.76	-58.4	2.9	196	75	-297.5	38.5	-1	-22	-1153.8	80.7	-2.9	-33.6	-22.8
48TH	163.76	-58.9	3.3	196	75	-300.3	43.7	-1	-22	-1095.4	77.8	-2.7	-30.2	-21.6
49TH	166.76	-59.4	3.4	196	75	-302.7	45.6	-1	-22	-1036.5	74.5	-2.5	-27.0	-20.3
50TH	169.76	-59.6	3.2	196	75	-303.9	42.3	-1	-22	-977.1	71.1	-2.3	-24.0	-19.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL														
WIND DIRECTION 70		CONFIGURATION A								REFERENCE PRESSURE 675 PA		GUST FACTOR 1.00		
FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-59.9	2.9	196	75	-305.0	39.0	-1	-21	-917.4	68.0	-2.1	-21.1	-17.7
52ND	175.76	-60.1	2.7	196	75	-306.2	35.7	-1	-21	-857.6	65.0	-1.9	-18.5	-16.4
53RD	178.76	-60.3	2.4	196	75	-307.3	32.4	-1	-21	-797.5	62.4	-1.7	-16.0	-15.1
54TH	181.76	-60.5	2.2	196	75	-308.5	29.1	-1	-21	-737.2	59.9	-1.5	-13.7	-13.9
55TH	184.76	-60.8	1.9	196	75	-309.6	25.7	-1	-21	-676.7	57.7	-1.3	-11.6	-12.6
56TH	187.76	-60.7	2.1	196	75	-309.2	28.1	-1	-21	-615.9	55.8	-1.1	-9.6	-11.3
57TH	190.76	-60.2	2.6	196	75	-306.6	34.2	-1	-21	-555.3	53.7	-1.0	-7.9	-10.0
58TH	193.76	-59.7	3.0	196	75	-304.1	40.2	-1	-20	-495.1	51.2	-.8	-6.3	-8.8
59TH	196.76	-59.2	3.5	196	75	-301.6	46.3	-1	-20	-435.4	48.1	-.7	-4.9	-7.5
60TH	199.76	-58.7	3.9	196	75	-299.0	52.4	-1	-20	-376.2	44.7	-.5	-3.7	-6.3
61ST	202.76	-58.2	4.4	196	75	-296.5	58.4	-1	-20	-317.5	40.7	-.4	-2.6	-5.2
62ND	205.76	-95.9	8.7	327	125	-293.1	69.6	-2	-19	-259.4	36.4	-.3	-1.8	-4.0
63RD	210.76	-163.5	27.7	572	219	-285.7	126.5	-2	-13	-163.5	27.7	-.1	-.7	-2.2
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 80

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	32.2	0	115	0.0	280.5	0	0	-1609.9	900.7	-81.3	-199.4	-31.4
2ND	6.75	0.0	26.2	0	81	0.0	323.8	1	0	-1609.9	868.5	-75.4	-188.6	-31.5
3RD	11.75	0.0	25.2	0	77	0.0	325.1	1	0	-1609.9	842.3	-71.1	-180.5	-31.5
4TH	16.75	0.0	23.8	0	74	0.0	321.4	1	0	-1609.9	817.1	-67.0	-172.5	-31.5
5TH	21.75	-69.7	40.5	491	124	-142.1	326.2	-0	-1	-1540.2	752.9	-56.0	-150.2	-31.5
6TH	30.75	-45.3	37.7	327	115	-138.4	327.7	-1	-2	-1494.9	715.1	-52.3	-142.6	-31.3
7TH	35.75	-44.8	40.8	327	125	-136.9	326.6	-2	-2	-1450.1	674.3	-48.8	-135.3	-31.1
8TH	40.75	-26.7	24.4	196	75	-135.9	325.7	-3	-3	-1423.5	649.9	-46.8	-131.0	-31.0
9TH	43.75	-26.5	24.4	196	75	-135.1	325.0	-3	-3	-1397.0	625.6	-44.9	-126.7	-30.8
10TH	46.75	-26.4	24.3	196	75	-134.3	324.4	-3	-4	-1370.6	601.2	-43.1	-122.6	-30.7
11TH	49.75	-26.2	24.3	196	75	-133.6	323.7	-4	-4	-1344.4	577.0	-41.3	-118.5	-30.5
12TH	52.75	-26.1	24.2	196	75	-132.8	323.0	-4	-4	-1318.3	552.8	-39.6	-114.5	-30.3
13TH	55.75	-25.6	23.4	196	75	-130.4	311.6	-5	-5	-1292.7	529.4	-38.0	-110.6	-30.0
14TH	58.75	-24.7	22.0	196	75	-125.9	293.8	-5	-6	-1268.0	507.4	-36.4	-106.8	-29.8
15TH	61.75	-23.8	20.7	196	75	-121.5	276.0	-6	-7	-1244.2	486.7	-35.0	-103.0	-29.5
16TH	64.75	-23.0	19.4	196	75	-117.0	258.1	-6	-7	-1221.2	467.3	-33.5	-99.3	-29.2
17TH	67.75	-22.1	18.0	196	75	-112.6	240.3	-7	-8	-1199.1	449.3	-32.1	-95.7	-28.9
18TH	70.75	-21.2	16.7	196	75	-108.1	222.5	-8	-10	-1177.9	432.6	-30.8	-92.1	-28.6
19TH	73.75	-20.3	15.3	196	75	-103.7	204.6	-8	-11	-1157.6	417.3	-29.5	-88.6	-28.2
20TH	76.75	-19.5	14.0	196	75	-99.2	186.8	-9	-13	-1138.1	403.3	-28.3	-85.2	-27.8
21ST	79.75	-18.6	12.7	196	75	-94.8	169.0	-10	-14	-1119.5	390.6	-27.1	-81.8	-27.5
22ND	82.75	-17.7	11.3	196	75	-90.3	151.1	-10	-16	-1101.8	379.3	-26.0	-78.4	-27.0
23RD	85.75	-17.2	10.5	196	75	-87.9	140.3	-11	-18	-1084.6	368.8	-24.8	-75.2	-26.6
24TH	88.75	-17.7	10.3	196	75	-90.2	137.3	-11	-19	-1066.9	358.5	-23.8	-71.9	-26.2
25TH	91.75	-18.2	10.1	196	75	-92.6	134.4	-11	-19					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
WIND DIRECTION 80 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									-1048.7	348.4	-22.7	-68.8	-25.7
27TH	97.75	-18.6	9.9	196	75	-94.9	131.5	-11	-20	-1030.1	338.6	-21.7	-65.6	-25.2
28TH	100.75	-19.1	9.6	196	75	-97.3	128.5	-10	-20	-1011.0	328.9	-20.7	-62.6	-24.8
29TH	103.75	-19.6	9.4	196	75	-99.7	125.6	-10	-21	-991.4	319.5	-19.7	-59.6	-24.3
30TH	106.75	-20.0	9.2	196	75	-102.0	122.7	-10	-21	-971.4	310.3	-18.7	-56.6	-23.7
31ST	109.75	-20.5	9.0	196	75	-104.4	119.8	-10	-22	-950.9	301.3	-17.8	-53.7	-23.2
32ND	109.75	-20.9	8.8	196	75	-106.7	116.8	-9	-22	-930.0	292.6	-16.9	-50.9	-22.7
33RD	112.75	-21.4	8.5	196	75	-109.1	113.9	-9	-23	-908.6	284.0	-16.1	-48.2	-22.1
34TH	115.75	-21.9	8.3	196	75	-111.5	111.0	-9	-23	-886.7	275.7	-15.2	-45.5	-21.5
35TH	118.75	-45.3	16.0	392	150	-115.3	106.8	-8	-23	-841.4	259.7	-13.6	-40.3	-20.3
36TH	124.75	-23.4	7.7	196	75	-119.2	102.5	-8	-23	-818.0	252.0	-12.9	-37.8	-19.7
37TH	127.75	-23.9	7.5	196	75	-121.8	99.7	-7	-24	-794.1	244.6	-12.1	-35.4	-19.1
38TH	130.75	-24.4	7.3	196	75	-124.3	96.8	-7	-24	-769.8	237.3	-11.4	-33.0	-18.5
39TH	133.75	-24.9	7.0	196	75	-126.9	94.0	-7	-24	-744.8	230.2	-10.7	-30.8	-17.8
40TH	136.75	-25.4	6.8	196	75	-129.5	91.2	-6	-24	-719.4	223.4	-10.0	-28.6	-17.2
41ST	139.75	-25.9	6.6	196	75	-132.1	88.4	-6	-24	-693.5	216.8	-9.3	-26.4	-16.5
42ND	142.75	-26.4	6.4	196	75	-134.6	85.5	-6	-24	-667.1	210.4	-8.7	-24.4	-15.9
43RD	145.75	-26.9	6.3	196	75	-137.2	83.6	-6	-24	-640.2	204.1	-8.1	-22.4	-15.2
44TH	148.75	-27.1	6.5	196	75	-137.9	86.7	-6	-24	-613.1	197.6	-7.5	-20.6	-14.5
45TH	151.76	-27.2	6.7	196	75	-138.5	89.9	-6	-24	-586.0	190.9	-6.9	-18.8	-13.8
46TH	154.76	-27.3	7.0	196	75	-139.1	93.1	-6	-24	-558.7	183.9	-6.3	-17.0	-13.1
47TH	157.76	-27.4	7.2	196	75	-139.7	96.2	-6	-24	-531.2	176.7	-5.8	-15.4	-12.4
48TH	160.76	-27.5	7.5	196	75	-140.4	99.4	-7	-24	-503.7	169.2	-5.3	-13.9	-11.7
49TH	163.76	-27.7	7.7	196	75	-141.0	102.5	-7	-24	-476.0	161.5	-4.8	-12.4	-11.0
49TH	166.76	-27.8	7.8	196	75	-141.5	104.1	-7	-24	-448.3	153.7	-4.3	-11.0	-10.2
50TH	169.76	-27.8	7.7	196	75	-141.6	102.8	-7	-24					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :														
WIND DIRECTION 80		RAHARDJA CENTER -- CONVENTION HOTEL										GUST FACTOR 1.00		
CONFIGURATION A REFERENCE PRESSURE 675 PA														
FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-27.8	7.6	196	75	-141.7	101.6	-7	-24	-420.5	146.0	-3.9	-9.7	-9.5
52ND	175.76	-27.8	7.5	196	75	-141.7	100.3	-7	-24	-392.7	138.4	-3.4	-8.5	-8.8
53RD	178.76	-27.8	7.4	196	75	-141.8	99.1	-7	-24	-364.9	130.9	-3.0	-7.3	-8.1
54TH	181.76	-27.8	7.3	196	75	-141.9	97.9	-6	-24	-337.0	123.5	-2.6	-6.3	-7.3
55TH	184.76	-27.9	7.2	196	75	-142.0	96.6	-6	-24	-309.2	116.1	-2.3	-5.3	-6.6
56TH	187.76	-27.7	7.4	196	75	-141.2	99.4	-6	-24	-281.3	108.9	-2.0	-4.4	-5.9
57TH	190.76	-27.4	7.9	196	75	-139.4	104.7	-7	-23	-253.6	101.4	-1.6	-3.6	-5.2
58TH	193.76	-27.0	8.3	196	75	-137.5	110.1	-7	-23	-226.3	93.6	-1.3	-2.9	-4.5
59TH	196.76	-26.6	8.7	196	75	-135.7	115.5	-7	-22	-199.3	85.3	-1.1	-2.3	-3.8
60TH	199.76	-26.3	9.1	196	75	-133.9	120.9	-7	-21	-172.6	76.7	-.8	-1.7	-3.1
61ST	202.76	-25.9	9.5	196	75	-132.0	126.2	-7	-20	-146.4	67.6	-.6	-1.2	-2.5
62ND	205.76	-42.4	17.0	327	125	-129.6	136.2	-8	-19	-120.5	58.1	-.4	-.8	-1.9
63RD	210.76	-78.1	41.1	572	219	-136.5	188.1	-5	-10	-78.1	41.1	-.2	-.3	-1.0
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 90

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	28.6	0	115	0.0	248.5	-1	0	835.8	980.1	-95.9	92.2	16.0
2ND	6.75	0.0	23.9	0	81	0.0	295.3	-1	0	835.8	951.5	-89.4	86.5	16.0
3RD	11.75	0.0	23.3	0	77	0.0	300.8	-1	0	835.8	927.6	-84.7	82.3	16.0
4TH	16.75	0.0	22.4	0	74	0.0	302.7	-1	0	835.8	904.3	-80.1	78.2	16.0
5TH	21.75	47.3	39.3	491	124	96.3	316.6	3	-3	835.8	881.9	-75.6	74.0	16.0
6TH	30.75	30.4	37.2	327	115	93.1	322.9	4	-3	788.6	842.6	-67.9	66.7	15.8
7TH	35.75	30.1	40.5	327	125	92.1	324.0	4	-3	758.1	805.5	-63.7	62.8	15.5
8TH	40.75	18.0	24.4	196	75	91.6	325.0	4	-3	728.0	765.0	-59.8	59.1	15.3
9TH	43.75	17.9	24.4	196	75	91.2	325.8	4	-3	710.0	740.6	-57.6	56.9	15.1
10TH	46.75	17.8	24.5	196	75	90.9	326.6	4	-3	692.1	716.2	-55.4	54.8	15.0
11TH	49.75	17.8	24.5	196	75	90.5	327.4	4	-3	674.3	691.7	-53.3	52.8	14.8
12TH	52.75	17.7	24.6	196	75	90.1	328.2	4	-3	656.5	667.2	-51.2	50.8	14.7
13TH	55.75	17.3	23.7	196	75	88.3	316.7	5	-3	638.9	642.6	-49.3	48.8	14.5
14TH	58.75	16.6	22.3	196	75	84.7	297.8	5	-4	621.5	618.8	-47.4	47.0	14.3
15TH	61.75	15.9	20.9	196	75	81.1	279.0	6	-4	604.9	596.5	-45.5	45.1	14.2
16TH	64.75	15.2	19.5	196	75	77.6	260.2	7	-5	589.0	575.6	-43.8	43.3	14.0
17TH	67.75	14.5	18.1	196	75	74.0	241.3	7	-6	573.8	556.1	-42.1	41.6	13.8
18TH	70.75	13.8	16.7	196	75	70.4	222.5	8	-7	559.3	538.0	-40.4	39.9	13.5
19TH	73.75	13.1	15.3	196	75	66.9	203.7	9	-8	545.4	521.3	-38.9	38.2	13.3
20TH	76.75	12.4	13.9	196	75	63.3	184.8	10	-9	532.3	506.0	-37.3	36.6	13.1
21ST	79.75	11.7	12.4	196	75	59.7	166.0	11	-11	519.9	492.2	-35.8	35.0	12.8
22ND	82.75	11.0	11.0	196	75	56.1	147.1	13	-13	508.2	479.7	-34.4	33.5	12.6
23RD	85.75	10.6	10.3	196	75	54.0	137.1	14	-14	497.2	468.7	-32.9	32.0	12.3
24TH	88.75	10.8	10.3	196	75	55.1	137.2	13	-14	486.6	458.4	-31.5	30.5	12.0
25TH	91.75	11.0	10.3	196	75	56.2	137.3	13	-14	475.8	448.1	-30.2	29.1	11.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 90

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	11.3	10.3	196	75	57.4	137.4	13	-14	464.7	437.8	-28.9	27.6	11.4
27TH	97.75	11.5	10.3	196	75	58.5	137.5	13	-15	453.5	427.5	-27.6	26.3	11.1
28TH	100.75	11.7	10.3	196	75	59.6	137.5	13	-15	442.0	417.2	-26.3	24.9	10.8
29TH	103.75	11.9	10.3	196	75	60.8	137.6	13	-15	430.3	406.9	-25.1	23.6	10.5
30TH	106.75	12.1	10.3	196	75	61.9	137.7	13	-15	418.4	396.6	-23.9	22.3	10.2
31ST	109.75	12.4	10.3	196	75	63.0	137.8	13	-15	406.2	386.3	-22.7	21.1	9.9
32ND	112.75	12.6	10.3	196	75	64.1	137.9	13	-15	393.9	376.0	-21.5	19.9	9.5
33RD	115.75	12.8	10.3	196	75	65.0	137.4	13	-16	381.3	365.6	-20.4	18.7	9.2
34TH	118.75	25.2	20.2	392	150	64.2	134.8	13	-16	368.5	355.3	-19.3	17.6	8.9
35TH	124.75	12.4	9.9	196	75	63.3	132.2	13	-16	343.3	335.1	-17.3	15.5	8.2
36TH	127.75	12.3	9.8	196	75	62.8	130.5	13	-16	330.9	325.2	-16.3	14.5	7.9
37TH	130.75	12.3	9.8	196	75	62.8	130.5	13	-16	318.6	315.4	-15.3	13.5	7.6
38TH	133.75	12.2	9.7	196	75	62.2	128.8	13	-16	306.4	305.8	-14.4	12.6	7.3
39TH	136.75	12.1	9.5	196	75	61.6	127.1	13	-17	294.3	296.2	-13.5	11.7	6.9
39TH	136.75	12.0	9.4	196	75	61.1	125.4	13	-17	282.3	286.8	-12.6	10.8	6.6
40TH	139.75	11.9	9.3	196	75	60.5	123.6	13	-17	270.4	277.6	-11.8	10.0	6.3
41ST	142.75	11.8	9.1	196	75	59.9	121.9	13	-17	258.7	268.4	-10.9	9.2	6.0
42ND	145.75	11.6	9.0	196	75	59.4	120.7	13	-17	247.0	259.4	-10.2	8.4	5.6
43RD	148.75	11.5	9.2	196	75	58.8	122.4	13	-17	235.5	250.2	-9.4	7.7	5.3
44TH	151.76	11.4	9.3	196	75	58.3	124.0	13	-16	224.0	240.9	-8.7	7.0	5.0
45TH	154.76	11.3	9.4	196	75	57.7	125.7	13	-16	212.7	231.5	-7.9	6.3	4.7
46TH	157.76	11.2	9.5	196	75	57.2	127.4	13	-16	201.5	221.9	-7.3	5.7	4.4
47TH	160.76	11.1	9.7	196	75	56.6	129.0	13	-15	190.4	212.3	-6.6	5.1	4.1
48TH	163.76	11.0	9.8	196	75	56.1	130.7	13	-15	179.4	202.5	-6.0	4.6	3.8
49TH	166.76	10.9	9.8	196	75	55.6	130.9	13	-14	168.5	192.7	-5.4	4.1	3.5
50TH	169.76	10.8	9.7	196	75	55.2	128.9	13	-14					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 90

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									157.6	183.0	-4.8	3.6	3.3
52ND	175.76	10.8	9.5	196	75	54.9	126.8	13	-14	146.9	173.5	-4.3	3.1	3.0
53RD	178.76	10.7	9.4	196	75	54.6	124.8	12	-14	136.2	164.1	-3.8	2.7	2.7
54TH	181.76	10.7	9.2	196	75	54.3	122.7	12	-14	125.5	154.9	-3.3	2.3	2.5
55TH	184.76	10.6	9.0	196	75	54.0	120.7	12	-14	114.9	145.9	-2.9	1.9	2.2
56TH	187.76	10.5	8.9	196	75	53.6	118.7	12	-14	104.4	137.0	-2.4	1.6	1.9
57TH	190.76	10.5	9.2	196	75	53.3	123.0	12	-13	93.9	127.8	-2.0	1.3	1.7
58TH	193.76	10.4	9.9	196	75	52.9	131.5	11	-12	83.5	117.9	-1.7	1.0	1.5
59TH	196.76	10.3	10.5	196	75	52.6	140.0	11	-11	73.2	107.4	-1.3	.8	1.2
60TH	199.76	10.2	11.1	196	75	52.2	148.5	11	-10	63.0	96.3	-1.0	.6	1.0
61ST	202.76	10.2	11.8	196	75	51.8	157.0	10	-9	52.8	84.5	-.8	.4	.8
62ND	205.76	10.1	12.4	196	75	51.4	165.6	10	-8	42.7	72.1	-.5	.3	.6
63RD	210.76	16.7	22.4	327	125	51.0	179.0	9	-7	26.1	49.7	-.2	.1	.3
TOP	219.51	26.1	49.7	572	219	45.5	227.4	4	-2	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1 RAHARDJA CENTER -- CONVENTION HOTEL
WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	19.9	0	115	0.0	173.0	-4	0	2850.1	907.4	-82.8	354.4	47.1
2ND	6.75	0.0	18.5	0	81	0.0	228.7	-3	0	2850.1	887.5	-76.7	335.2	47.1
3RD	11.75	0.0	18.0	0	77	0.0	232.5	-3	0	2850.1	869.0	-72.3	320.9	47.2
4TH	16.75	0.0	16.9	0	74	0.0	229.2	-4	0	2850.1	851.0	-68.0	306.7	47.2
5TH	21.75	123.1	29.7	491	124	250.7	239.6	0	-1	2850.1	834.0	-63.8	292.4	47.3
6TH	30.75	77.7	38.5	327	115	237.7	334.2	1	-2	2727.1	804.3	-56.5	267.3	47.2
7TH	35.75	75.8	43.6	327	125	231.9	349.1	2	-3	2649.3	765.8	-52.5	253.9	47.0
8TH	40.75	44.8	26.5	196	75	228.1	353.7	2	-3	2573.5	722.2	-48.8	240.8	46.7
9TH	43.75	44.2	26.8	196	75	225.3	357.1	2	-3	2528.7	695.7	-46.7	233.2	46.5
10TH	46.75	43.6	27.0	196	75	222.4	360.5	2	-4	2484.5	668.9	-44.6	225.7	46.3
11TH	49.75	43.1	27.3	196	75	222.4	360.5	2	-4	2440.9	641.9	-42.7	218.3	46.1
12TH	52.75	42.5	27.5	196	75	219.5	363.9	2	-4	2397.8	614.6	-40.8	211.0	45.9
13TH	55.75	42.5	27.5	196	75	216.7	367.3	3	-4	2355.3	587.1	-39.0	203.9	45.6
14TH	58.75	41.8	26.8	196	75	212.8	357.2	3	-5	2313.5	560.3	-37.3	196.9	45.3
15TH	61.75	40.8	25.4	196	75	207.9	339.1	3	-5	2272.7	534.9	-35.6	190.0	45.0
16TH	64.75	39.8	24.1	196	75	202.9	321.0	4	-6	2232.9	510.8	-34.0	183.2	44.7
17TH	67.75	38.8	22.7	196	75	197.9	302.9	4	-7	2194.1	488.1	-32.5	176.6	44.3
18TH	70.75	37.8	21.3	196	75	192.9	284.8	5	-9	2156.2	466.7	-31.1	170.1	43.9
19TH	73.75	36.9	20.0	196	75	187.9	266.7	5	-10	2119.4	446.7	-29.7	163.7	43.4
20TH	76.75	35.9	18.6	196	75	182.9	248.6	6	-11	2083.5	428.1	-28.4	157.4	42.9
21ST	79.75	34.9	17.3	196	75	177.9	230.4	6	-12	2048.6	410.8	-27.2	151.2	42.4
22ND	82.75	33.9	15.9	196	75	172.9	212.3	7	-14	2014.6	394.9	-26.0	145.1	41.8
23RD	85.75	32.9	14.6	196	75	167.9	194.2	7	-16	1981.7	380.4	-24.8	139.1	41.2
24TH	88.75	32.5	13.7	196	75	165.7	182.2	7	-17	1949.2	366.7	-23.7	133.2	40.5
25TH	91.75	33.4	13.3	196	75	170.0	177.3	7	-17	1915.8	353.4	-22.6	127.4	39.8
		34.2	12.9	196	75	174.3	172.3	7	-18					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 100 CONFIGURATION A REFERENCE PRESSURE 675 PA GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									1081.6	340.5	-21.6	121.7	39.1
27TH	97.75	35.1	12.5	196	75	178.6	167.3	7	-18	1046.6	327.9	-20.6	116.1	38.4
28TH	100.75	35.9	12.2	196	75	183.0	162.3	6	-19	1010.7	315.8	-19.6	110.6	37.7
29TH	103.75	36.8	11.8	196	75	187.3	157.3	6	-19	1773.9	304.0	-18.7	105.2	36.9
30TH	106.75	37.6	11.4	196	75	191.6	152.3	6	-19	1736.3	292.6	-17.8	100.0	36.1
31ST	109.75	38.4	11.0	196	75	195.9	147.4	6	-20	1697.9	281.5	-16.9	94.8	35.3
32ND	112.75	39.3	10.7	196	75	200.2	142.4	5	-20	1658.6	270.8	-16.1	89.8	34.4
33RD	115.75	40.1	10.3	196	75	204.6	137.4	5	-20	1618.4	260.5	-15.3	84.9	33.5
34TH	118.75	41.0	9.9	196	75	208.8	131.9	5	-21	1577.4	250.7	-14.5	80.1	32.6
35TH	124.75	84.1	18.3	392	150	214.2	121.9	5	-21	1493.4	232.4	-13.1	70.8	30.8
36TH	127.75	43.1	8.4	196	75	219.7	111.9	4	-21	1450.3	224.0	-12.4	66.4	29.8
37TH	130.75	43.8	7.9	196	75	223.3	105.2	4	-21	1406.5	216.1	-11.7	62.1	28.9
38TH	133.75	44.5	7.4	196	75	226.9	98.5	4	-21	1361.9	208.7	-11.1	58.0	27.9
39TH	136.75	45.2	6.9	196	75	230.5	91.9	3	-22	1316.7	201.8	-10.5	54.0	26.9
40TH	139.75	45.9	6.4	196	75	234.1	85.2	3	-22	1270.8	195.4	-9.9	50.1	25.9
41ST	142.75	46.7	5.9	196	75	237.8	78.5	3	-22	1224.1	189.6	-9.3	46.3	24.8
42ND	145.75	47.4	5.4	196	75	241.4	71.9	2	-22	1176.7	184.2	-8.7	42.7	23.8
43RD	148.75	48.1	5.0	196	75	245.0	66.1	2	-22	1128.6	179.2	-8.2	39.3	22.7
44TH	151.76	48.2	4.9	196	75	245.7	65.5	2	-22	1080.4	174.3	-7.7	36.0	21.7
45TH	154.76	48.3	4.9	196	75	246.3	65.0	2	-22	1032.1	169.4	-7.1	32.8	20.6
46TH	157.76	48.4	4.8	196	75	246.9	64.4	2	-22	983.7	164.6	-6.6	29.8	19.5
47TH	160.76	48.6	4.8	196	75	247.4	63.9	2	-22	935.1	159.8	-6.2	26.9	18.4
48TH	163.76	48.7	4.7	196	75	248.0	63.3	2	-22	886.4	155.1	-5.7	24.2	17.3
49TH	166.76	48.8	4.7	196	75	248.6	62.8	2	-22	837.6	150.4	-5.2	21.6	16.3
50TH	169.76	48.9	4.6	196	75	249.3	61.7	2	-22	788.7	145.7	-4.8	19.1	15.2
		49.1	4.5	196	75	250.2	59.7	2	-22					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 100

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	49.3	4.3	196	75	251.0	57.7	2	-22	739.6	141.3	-4.4	16.9	14.1
52ND	175.76	49.4	4.2	196	75	251.9	55.7	2	-22	690.4	136.9	-3.9	14.7	13.0
53RD	178.76	49.6	4.0	196	75	252.8	53.7	2	-22	640.9	132.8	-3.5	12.7	11.9
54TH	181.76	49.8	3.9	196	75	253.7	51.7	2	-21	591.3	128.7	-3.1	10.9	10.8
55TH	184.76	49.9	3.7	196	75	254.5	49.7	2	-21	541.6	124.9	-2.8	9.2	9.8
56TH	187.76	49.7	4.5	196	75	253.5	59.4	2	-21	491.6	121.1	-2.4	7.6	8.7
57TH	190.76	49.0	5.8	196	75	249.9	76.7	2	-21	441.9	116.7	-2.0	6.2	7.7
58TH	193.76	48.3	7.1	196	75	246.3	94.1	3	-20	392.8	110.9	-1.7	5.0	6.6
59TH	196.76	47.6	8.4	196	75	242.7	111.5	3	-20	344.5	103.9	-1.4	3.9	5.6
60TH	199.76	46.9	9.7	196	75	239.1	128.9	4	-19	296.9	95.5	-1.1	2.9	4.7
61ST	202.76	46.2	11.0	196	75	235.5	146.2	4	-18	250.0	85.9	-.8	2.1	3.7
62ND	205.76	75.4	21.5	327	125	230.7	171.7	5	-18	203.8	74.9	-.6	1.4	2.8
63RD	210.76	128.3	53.4	572	219	224.2	244.5	4	-9	128.3	53.4	-.2	.6	1.4
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
WIND DIRECTION 110 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		GUST FACTOR 1.00 MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	Z		
1ST	0.00									4163.6	831.4	-80.7	515.7	59.2
2ND	6.75	0.0	7.9	0	115	0.0	69.1	-12	0	4163.6	823.4	-75.1	487.6	59.3
3RD	11.75	0.0	9.3	0	81	0.0	115.0	-8	0	4163.6	814.1	-71.0	466.7	59.4
4TH	16.75	0.0	8.9	0	77	0.0	115.5	-9	0	4163.6	805.2	-66.9	445.9	59.5
5TH	21.75	0.0	8.0	0	74	0.0	108.6	-11	0	4163.6	797.1	-62.9	425.1	59.6
6TH	21.75	180.0	13.5	491	124	366.7	108.8	-0	1	3983.7	783.6	-55.8	388.4	59.7
7TH	30.75	112.9	36.6	327	115	345.3	318.0	0	-1	3870.7	747.0	-52.0	368.8	59.5
8TH	35.75	110.0	42.8	327	125	336.4	342.8	1	-2	3760.7	704.2	-48.4	349.7	59.3
9TH	40.75	64.9	25.7	196	75	330.8	343.1	1	-3	3695.8	678.5	-46.3	338.5	59.0
10TH	43.75	64.1	25.7	196	75	326.6	343.3	1	-3	3631.7	652.7	-44.3	327.5	58.8
11TH	46.75	63.2	25.8	196	75	322.3	343.5	2	-4	3568.5	627.0	-42.4	316.7	58.5
12TH	49.75	62.4	25.8	196	75	318.1	343.8	2	-4	3506.1	601.2	-40.5	306.1	58.2
13TH	52.75	61.6	25.8	196	75	313.9	344.0	2	-5	3444.5	575.4	-38.8	295.7	57.9
14TH	55.75	60.7	25.0	196	75	309.5	333.9	2	-5	3383.7	550.4	-37.1	285.5	57.5
15TH	58.75	59.9	23.8	196	75	305.0	317.7	2	-6	3323.9	526.6	-35.5	275.4	57.1
16TH	61.75	59.0	22.6	196	75	300.6	301.5	3	-7	3264.9	504.0	-33.9	265.5	56.6
17TH	64.75	58.1	21.4	196	75	296.1	285.3	3	-8	3206.8	482.6	-32.4	255.8	56.1
18TH	67.75	57.2	20.2	196	75	291.6	269.2	3	-9	3149.6	462.4	-31.0	246.3	55.5
19TH	70.75	56.3	19.0	196	75	287.2	253.0	3	-10	3093.2	443.4	-29.6	236.9	54.9
20TH	73.75	55.5	17.7	196	75	282.7	236.8	3	-11	3037.7	425.7	-28.3	227.7	54.2
21ST	76.75	54.6	16.5	196	75	278.2	220.6	4	-12	2983.1	409.1	-27.1	218.7	53.5
22ND	79.75	53.7	15.3	196	75	273.7	204.4	4	-13	2929.4	393.8	-25.9	209.8	52.8
23RD	82.75	52.8	14.1	196	75	269.3	188.2	4	-14	2876.6	379.7	-24.7	201.1	52.0
24TH	85.75	52.0	13.3	196	75	265.0	172.3	4	-15	2824.1	366.4	-23.6	192.5	51.1
25TH	88.75	51.2	12.9	196	75	261.3	157.6	4	-15	2770.9	353.5	-22.5	184.2	50.3
25TH	91.75	50.4	12.6	196	75	257.2	143.8	4	-16					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
 WIND DIRECTION 110 RAHARDJA CENTER -- CONVENTION HOTEL
 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		EDGE (K)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									2716.9	340.9	-21.5	175.9	49.4
27TH	97.75	54.8	12.2	196	75	279.2	163.0	4	-16	2662.1	328.7	-20.5	167.9	48.4
28TH	100.75	55.6	11.9	196	75	283.1	158.2	3	-16	2606.6	316.8	-19.5	160.0	47.5
29TH	103.75	56.3	11.5	196	75	287.1	153.5	3	-17	2550.2	305.3	-18.6	152.2	46.5
30TH	106.75	57.1	11.1	196	75	291.0	148.7	3	-17	2493.1	294.2	-17.7	144.7	45.5
31ST	109.75	57.9	10.8	196	75	295.0	143.9	3	-17	2435.2	283.4	-16.8	137.3	44.5
32ND	112.75	58.7	10.4	196	75	298.9	139.1	3	-17	2376.6	273.0	-16.0	130.0	43.4
33RD	115.75	59.4	10.1	196	75	302.9	134.4	3	-18	2317.1	262.9	-15.2	123.0	42.4
34TH	118.75	60.2	9.7	196	75	306.8	129.2	3	-18	2257.0	253.2	-14.4	116.1	41.2
35TH	124.75	121.8	18.1	392	150	310.3	120.4	3	-18	2135.2	235.1	-12.9	103.0	39.0
36TH	127.75	61.6	8.4	196	75	314.0	111.5	2	-18	2073.5	226.8	-12.2	96.6	37.8
37TH	127.75	62.1	7.9	196	75	316.5	105.7	2	-18	2011.4	218.9	-11.6	90.5	36.7
38TH	130.75	62.6	7.5	196	75	319.0	99.8	2	-18	1948.8	211.4	-10.9	84.6	35.5
39TH	133.75	63.1	7.0	196	75	321.5	93.9	2	-18	1885.8	204.4	-10.3	78.8	34.3
40TH	136.75	63.6	6.6	196	75	323.9	88.0	2	-19	1822.2	197.8	-9.7	73.3	33.2
41ST	139.75	64.1	6.2	196	75	326.4	82.1	2	-19	1758.1	191.6	-9.1	67.9	32.0
42ND	142.75	64.5	5.7	196	75	328.9	76.2	2	-19	1693.6	185.9	-8.6	62.7	30.7
43RD	145.75	65.0	5.4	196	75	331.3	71.4	2	-19	1628.6	180.5	-8.0	57.7	29.5
44TH	148.75	65.6	5.1	196	75	334.5	67.3	2	-19	1563.0	175.0	-7.5	52.9	28.3
45TH	151.76	66.3	4.8	196	75	337.6	63.2	2	-19	1496.7	169.4	-7.0	48.4	27.0
46TH	154.76	66.9	4.5	196	75	340.8	59.1	2	-19	1429.8	163.6	-6.5	44.0	25.8
47TH	157.76	67.5	4.2	196	75	343.9	55.0	2	-19	1362.4	157.7	-6.0	39.8	24.5
48TH	160.76	68.1	3.9	196	75	347.0	50.9	2	-19	1294.3	151.6	-5.5	35.8	23.2
49TH	163.76	68.7	3.6	196	75	350.2	46.8	2	-19	1225.5	145.4	-5.1	32.0	21.9
50TH	166.76	69.3	3.3	196	75	353.1	42.8	2	-19	1156.2	139.4	-4.6	28.4	20.6
	169.76	69.7	3.0	196	75	355.3	38.3	1	-19					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 110

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	70.1	4.8	196	75	357.4	63.9	1	-19	1086.5	134.0	-4.2	25.1	19.2
52ND	175.76	70.6	4.2	196	75	359.6	55.4	1	-19	1016.4	129.2	-3.8	21.9	17.9
53RD	178.76	71.0	3.5	196	75	361.8	47.0	1	-19	945.8	125.0	-3.4	19.0	16.6
54TH	181.76	71.4	2.9	196	75	363.9	38.6	1	-19	874.8	121.5	-3.1	16.2	15.2
55TH	184.76	71.8	2.3	196	75	366.1	30.1	1	-19	803.4	118.6	-2.7	13.7	13.9
56TH	187.76	71.9	2.3	196	75	366.2	39.2	1	-19	731.6	116.3	-2.4	11.4	12.5
57TH	190.76	71.4	4.5	196	75	363.7	69.0	1	-19	659.7	113.4	-2.0	9.3	11.2
58TH	193.76	70.9	6.0	196	75	361.2	89.7	2	-19	588.3	108.9	-1.7	7.5	9.8
59TH	196.76	70.4	7.6	196	75	358.7	101.4	2	-18	517.4	102.9	-1.4	5.8	8.5
60TH	199.76	69.9	9.2	196	75	356.2	122.2	2	-18	447.0	95.3	-1.1	4.4	7.2
61ST	202.76	69.4	10.7	196	75	353.7	142.9	3	-18	377.2	86.1	-.8	3.1	5.9
62ND	205.76	114.6	21.5	327	175	350.3	172.4	3	-18	307.8	75.4	-.6	2.1	4.6
63RD	210.76	193.2	53.9	572	219	337.5	246.3	3	-12	193.2	53.8	-.2	.8	2.5
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 120

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									5390.5	738.7	-88.4	665.5	57.8
2ND	6.75	0.0	-8.7	0	115	0.0	-75.4	14	0	5390.5	747.3	-83.4	629.2	57.9
3RD	11.75	0.0	-3.5	0	81	0.0	-43.8	22	0	5390.5	750.9	-79.7	602.2	58.0
4TH	16.75	0.0	-3.9	0	77	0.0	-51.0	22	0	5390.5	754.8	-75.9	575.3	58.1
5TH	21.75	0.0	-4.8	0	74	0.0	-64.6	20	0	5390.5	759.6	-72.1	548.3	58.2
6TH	30.75	224.0	-9.7	491	124	456.3	-78.2	0	0	5166.5	769.3	-65.2	500.8	58.3
7TH	35.75	141.9	27.9	327	115	434.0	242.2	0	-2	5024.6	741.4	-61.5	475.3	58.0
8TH	40.75	139.0	34.5	327	125	425.0	275.9	1	-3	4885.6	706.9	-57.8	450.5	57.6
9TH	43.75	82.3	20.3	196	75	419.4	270.6	1	-3	4803.3	686.7	-55.8	436.0	57.3
10TH	46.75	81.5	20.0	196	75	415.2	266.7	1	-4	4721.8	666.7	-53.7	421.7	57.0
11TH	49.75	80.6	19.7	196	75	410.9	262.7	1	-4	4641.2	647.0	-51.8	407.7	56.7
12TH	49.75	79.8	19.4	196	75	406.7	258.7	1	-5	4561.4	627.6	-49.8	393.9	56.3
13TH	52.75	79.0	19.1	196	75	402.5	254.8	1	-5	4482.4	608.5	-48.0	380.3	55.8
14TH	55.75	78.1	18.5	196	75	398.1	246.4	1	-6	4404.3	590.0	-46.2	367.0	55.4
15TH	58.75	77.3	17.7	196	75	393.7	235.5	1	-6	4327.0	572.3	-44.4	353.9	54.9
16TH	61.75	76.4	16.8	196	75	389.2	224.6	2	-7	4250.6	555.5	-42.8	341.0	54.3
17TH	64.75	75.5	16.0	196	75	384.8	213.7	2	-7	4175.1	539.5	-41.1	328.4	53.7
18TH	67.75	74.6	15.2	196	75	380.3	202.7	2	-8	4100.5	524.3	-39.5	316.0	53.1
19TH	70.75	73.8	14.4	196	75	375.9	191.8	2	-9	4026.7	509.9	-38.0	303.8	52.5
20TH	73.75	72.9	13.6	196	75	371.4	180.9	2	-9	3953.9	496.4	-36.5	291.8	51.8
21ST	76.75	72.0	12.7	196	75	367.0	169.9	2	-10	3881.9	483.6	-35.0	280.0	51.0
22ND	79.75	71.1	11.9	196	75	362.5	159.0	2	-11	3810.7	471.7	-33.6	268.5	50.3
23RD	82.75	70.3	11.1	196	75	358.1	148.1	2	-11	3740.5	460.6	-32.2	257.2	49.4
24TH	85.75	70.0	10.6	196	75	356.5	142.0	2	-12	3670.5	449.9	-30.8	246.1	48.6
25TH	88.75	71.0	10.6	196	75	361.8	141.6	2	-12	3599.5	439.3	-29.5	235.1	47.7
	91.75	72.0	10.6	196	75	367.1	141.1	2	-12					

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 120

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	73.1	10.5	196	75	372.4	140.6	2	-12	3527.5	428.8	-28.2	224.5	46.8
27TH	97.75	74.1	10.5	196	75	377.8	140.2	2	-12	3454.4	418.2	-26.9	214.0	45.9
28TH	100.75	75.2	10.5	196	75	383.1	139.7	2	-13	3380.2	407.7	-25.6	203.7	45.0
29TH	103.75	76.2	10.4	196	75	388.4	139.2	2	-13	3305.1	397.2	-24.4	193.7	44.0
30TH	106.75	77.3	10.4	196	75	393.7	138.7	2	-13	3229.9	386.8	-23.3	183.9	43.0
31ST	109.75	78.3	10.4	196	75	399.0	138.3	2	-13	3151.6	376.4	-22.1	174.3	42.0
32ND	112.75	79.3	10.3	196	75	404.3	137.8	2	-13	3073.3	366.0	-21.0	165.0	41.0
33RD	115.75	80.3	10.2	196	75	409.3	136.6	2	-13	2993.9	355.7	-19.9	155.9	39.9
34TH	118.75	81.4	10.1	196	75	414.3	135.4	2	-13	2913.6	345.5	-18.9	147.0	38.9
35TH	124.75	162.4	19.8	392	150	413.7	132.4	2	-13	2751.3	325.6	-16.9	130.0	36.7
36TH	127.75	82.0	9.6	196	75	418.1	128.2	2	-13	2669.2	316.0	-15.9	121.9	35.6
37TH	127.75	82.6	9.4	196	75	421.0	125.4	2	-13	2586.6	306.6	-15.0	114.0	34.5
37TH	130.75	83.2	9.2	196	75	424.0	122.5	1	-13	2503.4	297.4	-14.1	106.4	33.4
38TH	133.75	83.8	9.0	196	75	426.9	119.7	1	-13	2419.6	288.4	-13.2	99.0	32.2
39TH	136.75	84.4	8.8	196	75	429.8	116.9	1	-13	2335.3	279.7	-12.3	91.9	31.1
40TH	139.75	84.9	8.6	196	75	432.8	114.1	1	-13	2250.3	271.1	-11.5	85.0	30.0
41ST	142.75	85.5	8.3	196	75	435.7	111.3	1	-13	2164.8	262.8	-10.7	78.4	28.8
42ND	145.75	86.1	8.2	196	75	438.6	109.0	1	-13	2078.8	254.5	-9.9	72.0	27.7
43RD	148.75	86.8	8.0	196	75	442.1	116.2	1	-13	1992.0	245.8	-9.2	65.9	26.5
44TH	151.76	87.4	7.8	196	75	445.6	122.5	1	-13	1904.6	236.7	-8.4	60.0	25.3
45TH	154.76	88.1	7.6	196	75	449.1	128.8	1	-13	1816.5	227.0	-7.7	54.5	24.2
46TH	157.76	88.8	7.4	196	75	452.5	135.1	1	-13	1727.7	216.9	-7.1	49.2	23.0
47TH	160.76	89.5	7.2	196	75	456.0	141.5	2	-13	1638.2	206.3	-6.4	44.1	21.8
48TH	163.76	90.2	7.0	196	75	459.5	147.8	2	-13	1548.0	195.2	-5.8	39.3	20.6
49TH	166.76	90.8	6.8	196	75	462.8	147.7	2	-13	1457.2	184.1	-5.3	34.8	19.4
50TH	169.76	91.3	6.6	196	75	465.3	136.8	1	-13					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1 RAHARDJA CENTER -- CONVENTION HOTEL														
WIND DIRECTION 120		CONFIGURATION A				REFERENCE PRESSURE 675 PA			GUST FACTOR 1.00					
FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	91.8	9.4	196	75	467.9	126.0	1	-13	1365.9	173.9	-4.7	30.6	19.3
52ND	175.76	92.3	8.6	196	75	470.4	115.1	1	-13	1274.1	164.4	-4.2	26.6	17.0
53RD	178.76	92.8	7.8	196	75	473.0	104.3	1	-13	1181.8	155.8	-3.8	22.9	15.8
54TH	181.76	93.3	7.0	196	75	475.5	93.4	1	-13	1089.0	148.0	-3.3	19.5	14.6
55TH	184.76	93.8	6.2	196	75	478.1	82.6	1	-13	995.6	141.0	-2.9	16.4	13.4
56TH	187.76	93.7	6.7	196	75	477.5	89.7	1	-13	901.8	134.8	-2.4	13.6	12.2
57TH	190.76	92.8	8.2	196	75	472.8	108.8	1	-13	808.1	128.0	-2.1	11.0	10.9
58TH	193.76	91.9	9.6	196	75	468.2	127.9	1	-13	715.3	119.9	-1.7	8.7	9.7
59TH	196.76	90.9	11.0	196	75	463.5	147.0	2	-13	623.5	110.3	-1.3	6.7	8.5
60TH	199.76	90.0	12.5	196	75	458.8	166.1	2	-13	532.5	99.3	-1.0	5.0	7.3
61ST	202.76	89.1	13.9	196	75	454.1	185.2	2	-13	442.5	86.8	-.7	3.5	6.0
62ND	205.76	146.5	26.0	327	125	447.9	208.0	2	-13	353.4	72.9	-.5	2.3	4.8
63RD	210.76	206.9	46.9	572	219	361.5	214.7	3	-13	206.9	46.9	-.2	.9	2.8
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 130

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									5525.7	866.0	-129.2	656.3	47.3
2ND	6.75	0.0	-22.7	0	115	0.0	-197.9	7	0	5525.7	868.7	-123.3	619.0	47.4
3RD	11.75	0.0	-14.9	0	81	0.0	-183.5	6	0	5525.7	903.6	-118.8	591.3	47.5
4TH	16.75	0.0	-16.5	0	77	0.0	-213.6	5	0	5525.7	920.1	-114.3	563.7	47.6
5TH	21.75	0.0	-18.6	0	74	0.0	-251.9	4	0	5525.7	938.8	-109.6	536.1	47.7
6TH	30.75	252.2	-36.8	491	124	513.8	-296.5	0	0	5273.5	975.6	-101.0	487.5	47.7
7TH	35.75	161.3	18.2	327	115	493.1	157.8	0	-2	5112.2	957.4	-96.2	461.5	47.5
8TH	40.75	159.0	25.5	327	125	486.3	203.9	0	-2	4953.2	931.9	-91.4	436.3	47.1
9TH	43.75	94.7	14.4	196	75	482.5	192.4	0	-3	4858.5	917.5	-88.7	421.6	46.8
10TH	46.75	94.1	13.8	196	75	479.7	183.9	0	-3	4764.4	903.7	-85.9	407.2	46.4
11TH	49.75	93.6	13.1	196	75	476.8	175.3	1	-4	4670.8	890.6	-83.2	393.0	46.1
12TH	52.75	93.0	12.5	196	75	473.9	166.8	1	-4	4577.8	878.1	-80.6	379.2	45.7
13TH	55.75	92.4	11.9	196	75	471.1	158.2	1	-5	4485.4	866.2	-78.0	365.6	45.2
14TH	58.75	91.5	11.7	196	75	466.0	156.1	1	-5	4393.9	854.5	-75.4	352.2	44.8
15TH	61.75	89.9	11.8	196	75	458.4	158.0	1	-5	4304.0	842.7	-72.8	339.2	44.3
16TH	64.75	88.4	12.0	196	75	450.7	159.8	1	-6	4215.6	830.7	-70.3	326.4	43.8
17TH	67.75	86.9	12.1	196	75	443.0	161.6	1	-6	4128.6	818.6	-67.9	313.9	43.2
18TH	70.75	85.4	12.3	196	75	435.4	163.4	1	-7	4043.2	806.3	-65.4	301.6	42.6
19TH	73.75	83.9	12.4	196	75	427.7	165.2	1	-7	3959.3	793.9	-63.0	289.6	42.0
20TH	76.75	82.4	12.5	196	75	420.0	167.1	1	-7	3876.8	781.4	-60.7	277.9	41.4
21ST	79.75	80.9	12.7	196	75	412.4	168.9	1	-8	3795.9	768.7	-58.3	266.4	40.8
22ND	82.75	79.4	12.8	196	75	404.7	170.7	1	-8	3716.5	755.9	-56.0	255.1	40.1
23RD	85.75	77.9	12.9	196	75	397.0	172.5	1	-9	3638.6	743.0	-53.8	244.1	39.4
24TH	88.75	76.9	13.1	196	75	391.9	174.1	2	-9	3561.7	730.0	-51.6	233.3	38.7
25TH	91.75	77.1	13.2	196	75	392.7	175.4	2	-9	3484.6	716.8	-49.4	222.7	37.9
		77.2	13.3	196	75	393.5	176.8	2	-9					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
WIND DIRECTION 130 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		GUST FACTOR 1.00 MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									3467.4	703.6	-47.3	212.4	37.2
27TH	97.75	77.4	13.4	196	75	394.3	178.1	2	-9	3336.0	690.2	-45.2	202.3	36.5
28TH	100.75	77.5	13.5	196	75	395.2	179.4	2	-10	3252.5	676.7	-43.1	192.4	35.7
29TH	103.75	77.7	13.6	196	75	396.0	180.8	2	-10	3174.8	663.2	-41.1	182.7	34.9
30TH	106.75	77.9	13.7	196	75	396.8	182.1	2	-10	3096.9	649.5	-39.2	173.3	34.1
31ST	109.75	78.0	13.8	196	75	397.6	183.4	2	-10	3018.9	635.8	-37.2	164.2	33.3
32ND	112.75	78.2	13.9	196	75	398.5	184.8	2	-10	2940.7	621.9	-35.4	155.2	32.5
33RD	115.75	78.4	13.9	196	75	399.3	186.1	2	-10	2862.3	608.0	-33.5	146.5	31.7
34TH	118.75	78.6	14.1	196	75	400.5	187.7	2	-10	2783.8	593.9	-31.7	138.0	30.9
35TH	124.75	159.2	28.6	392	150	405.7	190.9	2	-10	2624.5	565.3	-28.2	121.8	29.2
36TH	127.75	80.7	14.6	196	75	411.0	194.1	2	-10	2543.9	550.7	-26.6	114.1	28.3
37TH	130.75	81.3	14.7	196	75	414.6	196.3	2	-10	2462.5	536.0	-24.9	106.6	27.5
38TH	133.75	82.0	14.9	196	75	418.1	198.5	2	-10	2380.5	521.2	-23.3	99.3	26.6
39TH	136.75	82.7	15.0	196	75	421.6	200.6	2	-10	2297.7	506.1	-21.8	92.3	25.7
40TH	139.75	83.4	15.2	196	75	425.1	202.8	2	-10	2214.3	490.9	-20.3	85.5	24.8
41ST	142.75	84.1	15.4	196	75	428.6	204.9	2	-10	2130.2	475.5	-18.9	79.0	23.9
42ND	145.75	84.8	15.5	196	75	432.2	207.1	2	-10	2045.4	460.0	-17.4	72.7	23.0
43RD	148.75	85.5	15.7	196	75	435.7	209.9	2	-10	1959.9	444.3	-16.1	66.7	22.0
44TH	151.76	85.8	16.2	196	75	437.5	216.5	2	-10	1874.1	428.1	-14.8	61.0	21.1
45TH	154.76	86.2	16.7	196	75	439.2	223.0	2	-10	1787.9	411.3	-13.5	55.5	20.2
46TH	157.76	86.5	17.2	196	75	440.9	229.6	2	-10	1701.4	394.1	-12.3	50.2	19.2
47TH	160.76	86.9	17.7	196	75	442.7	236.1	2	-10	1614.5	376.4	-11.2	45.3	18.3
48TH	163.76	87.2	18.2	196	75	444.4	242.7	2	-10	1527.3	358.2	-10.1	40.6	17.4
49TH	166.76	87.6	18.7	196	75	446.2	249.2	2	-10	1439.7	339.5	-9.0	36.1	16.4
50TH	169.76	87.8	19.0	196	75	447.4	253.2	2	-10	1351.9	320.6	-8.0	31.9	15.4
		87.7	19.0	196	75	446.7	252.8	2	-10					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 130

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ.M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									1264.3	301.6	-7.1	28.0	14.5
52ND	175.76	87.5	18.9	196	75	446.0	252.4	2	-11	1176.7	282.7	-6.2	24.3	13.5
53RD	178.76	87.4	18.9	196	75	445.3	252.0	2	-11	1089.4	263.8	-5.4	20.9	12.6
54TH	181.76	87.3	18.9	196	75	444.6	251.7	2	-11	1002.1	244.9	-4.6	17.8	11.6
55TH	184.76	87.1	18.8	196	75	443.9	251.3	2	-11	915.0	226.1	-3.9	14.9	10.6
56TH	187.76	87.0	18.8	196	75	443.2	250.9	2	-11	828.0	207.3	-3.3	12.3	9.6
57TH	190.76	86.6	19.0	196	75	441.5	253.3	2	-11	741.4	188.3	-2.7	9.9	8.6
58TH	193.76	86.0	19.3	196	75	438.4	257.5	2	-11	655.3	169.0	-2.1	7.9	7.6
59TH	196.76	85.4	19.6	196	75	435.4	261.7	2	-11	569.9	149.4	-1.7	6.0	6.7
60TH	199.76	84.8	19.9	196	75	432.3	266.0	3	-11	485.1	129.4	-1.2	4.4	5.7
61ST	202.76	84.2	20.3	196	75	429.2	270.2	3	-11	400.8	109.2	-.9	3.1	4.7
62ND	205.76	83.6	20.6	196	75	426.1	274.4	3	-11	317.2	88.6	-.6	2.0	3.8
63RD	210.76	138.0	34.6	327	125	422.0	277.2	3	-11	179.2	54.0	-.2	.8	2.2
TOP	219.51	179.2	54.0	572	219	313.2	246.9	3	-11	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 140

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-39.4	0	115	0.0	-342.6	5	0	6334.4	406.1	-79.8	757.9	40.6
2ND	6.75	0.0	-28.8	0	81	0.0	-356.0	4	0	6334.4	445.4	-76.9	715.1	40.7
3RD	11.75	0.0	-32.7	0	77	0.0	-422.4	2	0	6334.4	474.2	-74.6	663.4	40.9
4TH	16.75	0.0	-36.7	0	74	0.0	-497.2	1	0	6334.4	507.0	-72.2	651.8	40.9
5TH	21.75	280.9	-71.5	491	124	572.3	-575.6	0	1	6334.4	543.7	-69.5	620.1	41.0
6TH	30.75	179.0	8.2	327	115	547.5	71.4	0	-1	6053.5	615.2	-64.3	564.3	41.1
7TH	35.75	176.6	17.8	327	125	540.0	142.7	0	-2	5874.4	606.9	-61.3	534.5	41.0
8TH	40.75	105.2	9.8	196	75	536.1	131.0	0	-2	5697.8	589.1	-58.3	505.6	40.7
9TH	43.75	104.6	9.2	196	75	533.2	122.2	0	-2	5592.6	579.3	-56.5	488.6	40.5
10TH	46.75	104.1	8.5	196	75	530.3	113.4	0	-3	5488.0	570.1	-54.8	472.0	40.2
11TH	49.75	103.5	7.8	196	75	527.4	104.7	0	-3	5383.9	561.6	-53.1	455.7	39.9
12TH	52.75	102.9	7.2	196	75	524.5	95.9	0	-3	5280.4	553.8	-51.4	439.7	39.6
13TH	55.75	102.1	7.0	196	75	520.3	94.0	0	-4	5177.5	546.6	-49.8	424.0	39.2
14TH	58.75	101.0	7.2	196	75	514.5	96.2	0	-4	5075.4	539.5	-48.1	408.7	38.9
15TH	61.75	99.8	7.4	196	75	508.7	98.4	0	-4	4974.5	532.3	-46.5	393.6	38.4
16TH	64.75	98.7	7.5	196	75	503.0	100.6	0	-5	4874.6	525.0	-45.0	378.8	38.0
17TH	67.75	97.6	7.7	196	75	497.2	102.8	0	-5	4775.9	517.4	-43.4	364.3	37.5
18TH	70.75	96.4	7.9	196	75	491.4	105.0	0	-5	4678.4	509.7	-41.9	350.1	37.1
19TH	73.75	95.3	8.0	196	75	485.6	107.3	0	-6	4582.0	501.8	-40.3	336.3	36.5
20TH	76.75	94.2	8.2	196	75	479.9	109.5	1	-6	4486.7	493.8	-38.8	322.6	36.0
21ST	79.75	93.0	8.4	196	75	474.1	111.7	1	-6	4392.5	485.6	-37.4	309.3	35.4
22ND	82.75	91.9	8.5	196	75	468.3	113.9	1	-7	4299.5	477.2	-35.9	296.3	34.9
23RD	85.75	91.1	8.6	196	75	464.2	114.9	1	-7	4207.6	468.7	-34.5	283.5	34.2
24TH	88.75	91.0	8.6	196	75	463.8	114.3	1	-7	4116.5	460.1	-33.1	271.0	33.6
25TH	91.75	90.9	8.5	196	75	463.4	113.8	1	-7	4025.5	451.5	-31.7	258.8	33.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 140

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	90.9	8.5	196	75	463.0	113.3	1	-7	3934.5	443.0	-30.4	246.9	32.3
27TH	97.75	90.8	8.5	196	75	462.7	112.8	1	-7	3843.7	434.5	-29.1	235.2	31.7
28TH	100.75	90.7	8.4	196	75	462.3	112.3	1	-7	3752.9	426.0	-27.8	223.8	31.0
29TH	103.75	90.6	8.4	196	75	461.9	111.7	1	-7	3662.2	417.6	-26.5	212.7	30.3
30TH	106.75	90.6	8.3	196	75	461.5	111.2	1	-7	3571.5	409.2	-25.3	201.9	29.6
31ST	109.75	90.5	8.3	196	75	461.2	110.7	1	-8	3480.9	400.9	-24.1	191.3	29.0
32ND	112.75	90.4	8.3	196	75	460.8	110.2	1	-8	3390.4	392.6	-22.9	181.0	28.3
33RD	115.75	90.4	8.3	196	75	460.8	110.2	1	-8	3300.0	384.3	-21.7	170.9	27.6
34TH	118.75	182.5	16.8	392	150	465.0	112.3	1	-8	3209.6	376.1	-20.6	161.2	26.9
35TH	124.75	92.1	8.6	196	75	469.1	114.4	1	-8	3027.1	359.2	-18.4	142.5	25.4
36TH	127.75	92.6	8.7	196	75	471.9	115.8	1	-8	2935.0	350.6	-17.3	133.5	24.7
37TH	130.75	93.1	8.8	196	75	474.6	117.1	1	-8	2842.4	342.0	-16.3	124.8	24.0
38TH	133.75	93.7	8.9	196	75	477.4	118.5	1	-8	2749.3	333.2	-15.3	116.5	23.2
39TH	136.75	94.2	9.0	196	75	480.2	119.9	1	-8	2655.6	324.3	-14.3	108.3	22.5
40TH	139.75	94.8	9.1	196	75	482.9	121.3	1	-8	2561.4	315.3	-13.3	100.5	21.7
41ST	142.75	95.3	9.2	196	75	485.7	122.7	1	-8	2466.6	306.2	-12.4	93.0	20.9
42ND	145.75	95.8	9.3	196	75	488.4	124.5	1	-8	2371.3	297.0	-11.5	85.7	20.1
43RD	148.75	96.4	9.7	196	75	491.1	128.8	1	-8	2275.5	287.7	-10.6	78.7	19.4
44TH	151.76	96.9	10.0	196	75	493.7	133.2	1	-8	2179.1	278.0	-9.8	72.1	18.6
45TH	154.76	97.4	10.3	196	75	496.3	137.5	1	-8	2082.2	268.0	-8.9	65.7	17.8
46TH	157.76	97.9	10.6	196	75	498.9	141.9	1	-8	1984.8	257.7	-8.1	59.6	17.0
47TH	160.76	98.4	11.0	196	75	501.5	146.2	1	-8	1886.9	247.1	-7.4	53.8	16.2
48TH	163.76	98.9	11.3	196	75	504.2	150.6	1	-8	1788.5	236.1	-6.7	48.3	15.4
49TH	166.76	99.4	11.6	196	75	506.5	154.6	1	-8	1689.6	224.8	-6.0	43.0	14.6
50TH	169.76	99.7	11.9	196	75	507.8	158.1	1	-8	1590.2	213.3	-5.3	38.1	13.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 140

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	99.9	12.1	196	75	509.2	161.6	1	-8	1490.5	201.4	-4.7	33.5	12.9
52ND	175.76	100.2	12.4	196	75	510.5	165.1	1	-8	1390.6	189.3	-4.1	29.2	12.1
53RD	178.76	100.4	12.6	196	75	511.8	168.5	1	-8	1290.4	176.9	-3.6	25.2	11.3
54TH	181.76	100.7	12.9	196	75	513.2	172.0	1	-8	1190.0	164.3	-3.0	21.4	10.4
55TH	184.76	101.0	13.2	196	75	514.5	175.5	1	-8	1089.3	151.4	-2.6	18.0	9.6
56TH	187.76	100.9	13.3	196	75	514.3	177.7	1	-8	988.4	138.2	-2.1	14.9	8.7
57TH	190.76	100.5	13.4	196	75	512.2	179.0	1	-8	887.4	124.9	-1.7	12.1	7.9
58TH	193.76	100.1	13.5	196	75	510.2	180.4	1	-8	786.9	111.5	-1.4	9.6	7.0
59TH	196.76	99.7	13.6	196	75	508.1	181.7	1	-9	686.8	98.0	-1.1	7.4	6.1
60TH	199.76	99.3	13.7	196	75	506.0	183.1	1	-9	587.1	84.3	-.8	5.4	5.3
61ST	202.76	98.9	13.8	196	75	503.9	184.4	1	-9	487.8	70.6	-.6	3.8	4.4
62ND	205.76	163.9	23.0	327	125	501.1	183.9	1	-9	388.9	56.8	-.4	2.5	3.5
63RD	210.76	225.1	33.8	572	219	393.2	154.6	1	-9	225.1	33.8	-.1	1.0	2.1
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 150

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-50.2	0	115	0.0	-437.3	4	0	7050.3	221.3	-64.4	852.4	32.7
2ND	6.75	0.0	-37.2	0	81	0.0	-459.6	3	0	7050.3	271.5	-62.7	804.8	32.8
3RD	11.75	0.0	-44.4	0	77	0.0	-573.6	1	0	7050.3	308.7	-61.3	769.5	32.9
4TH	16.75	0.0	-52.0	0	74	0.0	-702.9	-0	0	7050.3	353.2	-59.6	734.3	33.0
5TH	21.75	296.3	-102.0	491	124	603.8	-821.7	0	1	6754.0	507.1	-53.6	636.9	33.3
6TH	30.75	189.5	-2.8	327	115	579.5	-24.6	0	0	6564.5	509.9	-51.1	603.6	33.3
7TH	35.75	187.3	10.0	327	125	572.6	79.9	0	-1	6377.2	500.0	-48.6	571.3	33.2
8TH	40.75	111.7	6.1	196	75	569.3	80.8	0	-1	6265.5	493.9	-47.1	552.3	33.1
9TH	43.75	111.2	6.1	196	75	566.8	81.6	0	-1	6154.3	487.8	-45.6	533.7	33.0
10TH	46.75	110.7	6.2	196	75	564.3	82.3	0	-2	6043.5	481.6	-44.1	515.4	32.8
11TH	49.75	110.3	6.2	196	75	561.9	83.1	0	-2	5933.3	475.4	-42.7	497.4	32.6
12TH	52.75	109.8	6.3	196	75	559.4	83.8	0	-2	5823.5	469.1	-41.3	479.8	32.4
13TH	55.75	109.2	6.4	196	75	556.7	85.8	0	-2	5714.3	462.7	-39.9	462.5	32.1
14TH	58.75	108.7	6.6	196	75	553.8	88.4	0	-3	5605.6	456.1	-38.5	445.5	31.8
15TH	61.75	108.1	6.8	196	75	550.8	91.1	0	-3	5497.5	449.2	-37.2	428.8	31.5
16TH	64.75	107.5	7.0	196	75	547.9	93.8	0	-3	5390.0	442.2	-35.8	412.5	31.1
17TH	67.75	106.9	7.2	196	75	545.0	96.5	0	-3	5283.0	435.0	-34.5	396.5	30.8
18TH	70.75	106.4	7.4	196	75	542.1	99.2	0	-4	5176.7	427.5	-33.2	380.8	30.4
19TH	73.75	105.8	7.6	196	75	539.1	101.8	0	-4	5070.9	419.9	-31.9	365.4	30.0
20TH	76.75	105.2	7.8	196	75	536.2	104.5	0	-4	4965.7	412.1	-30.7	350.4	29.5
21ST	79.75	104.7	8.0	196	75	533.3	107.2	0	-4	4861.0	404.0	-29.5	335.6	29.1
22ND	82.75	104.1	8.2	196	75	530.4	109.9	0	-5	4756.9	395.8	-28.3	321.2	28.6
23RD	85.75	103.7	8.3	196	75	528.2	110.3	0	-5	4653.3	387.5	-27.1	307.1	28.1
24TH	88.75	103.6	8.1	196	75	527.8	108.1	0	-5	4549.7	379.4	-25.9	293.3	27.5
25TH	91.75	103.5	7.9	196	75	527.3	106.0	0	-5					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 150

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	103.4	7.8	196	75	526.9	103.8	0	-5	4446.2	371.5	-24.8	279.8	27.0
27TH	97.75	103.3	7.6	196	75	526.4	101.7	0	-5	4342.8	363.7	-23.7	266.6	26.5
28TH	100.75	103.2	7.5	196	75	526.0	99.5	0	-5	4239.5	356.1	-22.6	253.7	25.9
29TH	103.75	103.1	7.3	196	75	525.5	97.3	0	-5	4136.3	348.6	-21.6	241.1	25.4
30TH	106.75	103.0	7.1	196	75	525.1	95.2	0	-5	4033.2	341.3	-20.5	228.9	24.8
31ST	109.75	103.0	7.0	196	75	524.7	93.0	0	-6	3930.1	334.2	-19.5	216.9	24.3
32ND	112.75	102.9	6.8	196	75	524.2	90.9	0	-6	3827.2	327.2	-18.5	205.3	23.7
33RD	115.75	102.8	6.8	196	75	524.1	90.1	0	-6	3724.3	320.4	-17.6	194.0	23.1
34TH	118.75	206.8	14.0	392	150	527.0	93.6	0	-6	3621.5	313.6	-16.6	183.0	22.5
35TH	124.75	104.0	7.3	196	75	529.8	97.2	0	-6	3414.7	299.6	-14.8	161.9	21.3
36TH	127.75	104.3	7.5	196	75	531.7	99.6	0	-6	3310.7	292.3	-13.9	151.8	20.7
37TH	130.75	104.7	7.6	196	75	533.6	101.9	0	-6	3206.4	284.8	-13.0	142.0	20.1
38TH	133.75	105.1	7.8	196	75	535.5	104.3	0	-6	3101.7	277.2	-12.2	132.5	19.5
39TH	136.75	105.5	8.0	196	75	537.4	106.7	0	-6	2996.6	269.4	-11.4	123.4	18.9
40TH	139.75	105.8	8.2	196	75	539.3	109.0	0	-6	2891.1	261.4	-10.6	114.5	18.3
41ST	142.75	106.2	8.4	196	75	541.2	111.4	0	-6	2785.3	253.2	-9.8	106.0	17.6
42ND	145.75	106.6	8.5	196	75	543.1	113.8	0	-6	2679.1	244.9	-9.0	97.8	17.0
43RD	148.75	107.0	8.7	196	75	545.3	116.5	0	-6	2572.5	236.3	-8.3	90.0	16.3
44TH	151.76	107.4	8.9	196	75	547.5	119.2	0	-6	2465.5	227.6	-7.6	82.4	15.7
45TH	154.76	107.9	9.1	196	75	549.6	121.8	1	-6	2358.1	218.7	-7.0	75.2	15.0
46TH	157.76	108.3	9.3	196	75	551.8	124.5	1	-6	2250.2	209.5	-6.3	68.3	14.4
47TH	160.76	108.7	9.5	196	75	554.0	127.2	1	-6	2141.9	200.2	-5.7	61.7	13.7
48TH	163.76	109.1	9.7	196	75	556.2	129.8	1	-6	2033.2	190.7	-5.1	55.4	13.1
49TH	166.76	109.6	10.0	196	75	558.8	132.9	1	-6	1924.1	180.9	-4.6	49.5	12.4
50TH	169.76	110.4	10.3	196	75	562.8	136.8	1	-6	1814.4	171.0	-4.0	43.9	11.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
 WIND DIRECTION 150

RAHARDJA CENTER -- CONVENTION HOTEL
 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									1704.0	160.7	-3.5	38.6	11.1
52ND	175.76	111.2	10.5	196	75	566.9	140.6	1	-6	1592.7	150.2	-3.1	33.6	10.4
53RD	178.76	112.0	10.8	196	75	571.0	144.4	1	-6	1480.7	139.4	-2.6	29.0	9.8
54TH	181.76	112.8	11.1	196	75	575.1	148.3	1	-6	1367.8	128.2	-2.2	24.8	9.1
55TH	184.76	113.6	11.4	196	75	579.1	152.1	1	-6	1254.2	116.8	-1.9	20.8	8.4
56TH	187.76	114.4	11.7	196	75	583.2	155.9	1	-6	1139.8	105.1	-1.5	17.2	7.7
56TH	187.76	114.9	11.7	196	75	585.5	155.6	1	-6	1024.9	93.5	-1.2	14.0	7.0
57TH	190.76	114.9	11.4	196	75	585.3	152.5	1	-6	910.0	82.0	-1.0	11.1	6.3
58TH	193.76	114.8	11.2	196	75	585.2	149.4	1	-6	795.2	70.8	-0.7	8.5	5.5
59TH	196.76	114.8	11.0	196	75	585.1	146.2	1	-6	680.4	59.9	-0.5	6.3	4.8
60TH	199.76	114.8	10.7	196	75	584.9	143.1	1	-7	565.6	49.2	-0.4	4.4	4.0
61ST	202.76	114.8	10.5	196	75	584.8	140.0	1	-7	450.8	38.7	-0.2	2.9	3.2
62ND	205.76	191.2	16.7	327	125	584.6	134.0	1	-7	259.6	21.9	-0.1	1.1	1.9
63RD	210.76	259.6	21.9	572	219	453.7	100.3	1	-7	0.0	0.0	0.0	0.0	0.0
TOP	219.51													

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 160

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									7077.9	56.5	-51.3	849.2	20.6
2ND	6.75	0.0	-53.3	0	115	0.0	-463.0	3	0	7077.9	109.8	-50.8	801.4	20.8
3RD	11.75	0.0	-42.2	0	81	0.0	-521.1	2	0	7077.9	152.0	-50.1	766.0	20.9
4TH	16.75	0.0	-52.7	0	77	0.0	-600.9	-0	0	7077.9	204.7	-49.2	730.6	20.9
5TH	21.75	0.0	-63.4	0	74	0.0	-857.9	-1	0	7077.9	268.1	-48.1	695.3	20.8
6TH	298.3	-124.4		491	124	607.8	-1001.8	1	2	6779.6	392.5	-45.1	632.9	21.5
7TH	30.75	191.8	-13.8	327	115	586.6	-119.7	0	1	6587.7	406.3	-43.1	599.5	21.7
8TH	35.75	190.5	.5	327	125	582.4	4.1	-0	1	6397.3	405.8	-41.1	567.0	21.9
9TH	40.75	114.1	1.1	196	75	581.3	14.6	-0	0	6283.2	404.7	-39.6	548.0	21.9
10TH	43.75	113.9	1.7	196	75	580.5	22.4	-0	0	6169.3	403.0	-38.6	529.3	22.0
11TH	46.75	113.7	2.3	196	75	579.6	30.2	0	-0	6055.5	400.7	-37.4	511.0	21.9
12TH	49.75	113.6	2.9	196	75	578.8	38.1	0	-0	5942.0	397.9	-36.2	493.0	21.9
13TH	52.75	113.4	3.4	196	75	578.0	45.9	0	-1	5828.5	394.4	-35.0	475.3	21.8
14TH	55.75	113.1	3.9	196	75	576.1	51.5	0	-1	5715.5	390.6	-33.9	458.0	21.7
15TH	58.75	112.5	4.2	196	75	573.2	55.7	0	-1	5603.0	386.4	-32.7	441.0	21.6
16TH	61.75	111.9	4.5	196	75	570.2	60.0	0	-1	5491.1	381.9	-31.5	424.4	21.4
17TH	64.75	111.3	4.8	196	75	567.2	64.2	0	-2	5379.8	377.1	-30.4	408.1	21.2
18TH	67.75	110.7	5.1	196	75	564.2	68.4	0	-2	5269.1	372.0	-29.3	392.1	21.0
19TH	70.75	110.1	5.4	196	75	561.2	72.7	0	-2	5159.0	366.5	-28.2	376.5	20.8
20TH	73.75	109.5	5.8	196	75	558.3	76.9	0	-2	5049.4	360.8	-27.1	361.1	20.6
21ST	76.75	109.0	6.1	196	75	555.3	81.1	0	-2	4940.5	354.7	-26.0	346.2	20.3
22ND	79.75	108.4	6.4	196	75	552.3	85.4	0	-3	4832.1	348.3	-24.9	331.5	20.0
23RD	82.75	107.8	6.7	196	75	549.3	89.6	0	-3	4724.3	341.6	-23.9	317.2	19.7
24TH	85.75	107.3	6.9	196	75	546.6	91.8	0	-3	4617.0	334.7	-22.9	303.2	19.4
25TH	88.75	106.9	6.9	196	75	544.6	91.6	0	-3	4510.1	327.8	-21.9	289.5	19.1
	91.75	106.5	6.9	196	75	542.6	91.4	0	-3					

TABLE 7. SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 160

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	106.1	6.8	196	75	540.6	91.2	0	-3	4403.7	321.0	-20.9	276.1	18.7
27TH	97.75	105.7	6.8	196	75	538.5	91.0	0	-3	4297.6	314.1	-20.0	263.0	18.4
28TH	100.75	105.3	6.8	196	75	536.5	90.9	0	-3	4191.9	307.3	-19.0	250.3	18.0
29TH	103.75	104.9	6.8	196	75	534.5	90.7	0	-4	4086.6	300.5	-18.1	237.9	17.6
30TH	106.75	104.5	6.8	196	75	532.5	90.5	0	-4	3981.7	293.7	-17.2	225.8	17.3
31ST	109.75	104.1	6.8	196	75	530.5	90.3	0	-4	3877.2	286.9	-16.4	214.0	16.9
32ND	112.75	103.7	6.8	196	75	528.4	90.1	0	-4	3773.1	280.1	-15.5	202.5	16.5
33RD	115.75	103.4	6.8	196	75	526.7	90.2	0	-4	3669.4	273.4	-14.7	191.4	16.1
34TH	118.75	206.7	13.7	392	150	526.7	91.1	0	-4	3566.1	266.6	-13.9	180.5	15.7
35TH	124.75	103.4	6.9	196	75	526.7	92.1	0	-4	3359.4	252.9	-12.3	159.7	14.9
36TH	127.75	103.4	7.0	196	75	526.7	92.7	0	-4	3256.0	246.0	-11.6	149.0	14.5
37TH	130.75	103.4	7.0	196	75	526.7	93.4	0	-4	3152.7	239.1	-10.8	140.2	14.0
38TH	133.75	103.4	7.0	196	75	526.7	94.0	0	-4	3049.3	232.1	-10.1	130.9	13.6
39TH	136.75	103.4	7.1	196	75	526.7	94.6	0	-4	2945.9	225.0	-9.5	121.9	13.2
40TH	139.75	103.4	7.1	196	75	526.7	95.3	0	-4	2842.6	218.0	-8.8	113.2	12.8
41ST	142.75	103.4	7.2	196	75	526.7	95.9	0	-4	2739.2	210.8	-8.1	104.8	12.3
42ND	145.75	103.4	7.3	196	75	526.7	96.8	0	-4	2635.9	203.6	-7.5	96.8	11.9
43RD	148.75	104.0	7.4	196	75	529.8	99.0	0	-4	2532.5	196.4	-6.9	89.0	11.5
44TH	151.76	104.6	7.6	196	75	533.0	101.1	0	-4	2428.5	188.9	-6.3	81.6	11.0
45TH	154.76	105.2	7.7	196	75	536.1	103.3	0	-4	2323.9	181.4	-5.8	74.4	10.6
46TH	157.76	105.8	7.9	196	75	539.3	105.5	0	-4	2218.7	173.6	-5.3	67.6	10.1
47TH	160.76	106.4	8.1	196	75	542.4	107.7	0	-4	2112.9	165.7	-4.7	61.1	9.7
48TH	163.76	107.1	8.2	196	75	545.6	109.9	0	-4	2006.4	157.6	-4.3	55.0	9.3
49TH	166.76	107.7	8.4	196	75	548.8	111.9	0	-4	1899.4	149.4	-3.8	49.1	8.8
50TH	169.76	108.4	8.5	196	75	552.2	113.8	0	-4	1791.7	141.0	-3.4	43.6	8.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 160

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ.M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									1883.3	132.5	-3.0	38.3	7.9
52ND	175.76	109.0	8.7	196	75	555.6	115.7	0	-4	1574.3	123.8	-2.6	33.5	7.4
53RD	178.76	109.7	8.8	196	75	558.9	117.5	0	-4	1464.6	115.0	-2.2	28.9	7.0
54TH	181.76	110.3	9.0	196	75	562.3	119.4	0	-4	1354.3	106.0	-1.9	24.7	6.5
55TH	184.76	111.0	9.1	196	75	565.7	121.3	0	-4	1243.3	97.0	-1.6	20.8	6.0
56TH	187.76	111.7	9.2	196	75	569.1	123.2	0	-4	1131.6	87.7	-1.3	17.2	5.6
57TH	190.76	112.2	9.2	196	75	571.8	123.3	0	-4	1019.4	78.5	-1.1	14.0	5.1
58TH	193.76	112.6	9.2	196	75	573.6	122.2	0	-4	906.8	69.3	-0.8	11.1	4.6
59TH	196.76	112.9	9.1	196	75	575.4	121.2	0	-5	793.9	60.2	-0.6	8.5	4.0
60TH	199.76	113.3	9.0	196	75	577.3	120.2	0	-5	680.6	51.2	-0.5	6.3	3.5
61ST	202.76	113.6	8.9	196	75	579.1	119.1	0	-5	567.0	42.3	-0.3	4.5	2.9
62ND	205.76	114.0	8.9	196	75	580.9	118.1	0	-5	453.0	33.4	-0.2	2.9	2.4
63RD	210.76	190.8	14.4	327	125	583.3	114.9	0	-5	262.2	19.1	-0.1	1.1	1.4
TOP	219.51	262.2	19.1	572	219	458.2	87.3	0	-5	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 170 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									6529.5	-136.5	-28.0	783.6	12.0
2ND	6.75	0.0	-52.2	0	115	0.0	-454.2	3	0	6529.5	-84.3	-28.7	739.6	12.1
3RD	11.75	0.0	-45.6	0	81	0.0	-563.8	1	0	6529.5	-38.7	-29.0	706.9	12.2
4TH	16.75	0.0	-56.7	0	77	0.0	-732.6	-0	0	6529.5	18.1	-29.1	674.3	12.1
5TH	21.75	0.0	-67.4	0	74	0.0	-911.8	-1	0	6529.5	85.4	-28.8	641.6	12.1
6TH	279.0	-130.3		491	124	568.4	-1049.7	1	2	6250.6	215.8	-27.4	584.1	12.8
7TH	30.75	179.6	-20.0	327	115	549.3	-173.5	0	2	6070.9	235.7	-26.3	553.3	13.1
8TH	35.75	178.4	-5.7	327	125	545.5	-46.0	0	1	5892.5	241.5	-25.1	523.4	13.2
9TH	40.75	106.8	-2.2	196	75	544.5	-29.4	0	1	5785.7	243.7	-24.4	505.9	13.3
10TH	43.75	106.7	-1.3	196	75	543.7	-17.0	0	0	5679.0	245.0	-23.7	488.7	13.3
11TH	46.75	106.5	-1.3	196	75	542.9	-4.6	-0	-0	5572.4	245.3	-22.9	471.8	13.3
12TH	49.75	106.4	.6	196	75	542.1	7.9	0	-0	5466.1	244.7	-22.2	455.2	13.3
13TH	52.75	106.2	1.5	196	75	541.3	20.3	0	-1	5359.8	243.2	-21.5	439.0	13.2
14TH	55.75	105.7	2.0	196	75	538.8	27.0	0	-1	5254.1	241.2	-20.7	423.1	13.1
15TH	58.75	104.8	2.3	196	75	534.2	30.2	0	-1	5149.3	238.9	-20.0	407.5	13.0
16TH	61.75	103.9	2.5	196	75	529.5	33.4	0	-1	5045.4	236.4	-19.3	392.2	12.8
17TH	64.75	103.0	2.7	196	75	524.9	36.6	0	-1	4942.4	233.7	-18.6	377.2	12.7
18TH	67.75	102.1	3.0	196	75	520.3	39.9	0	-1	4840.3	230.7	-17.9	362.5	12.6
19TH	70.75	101.2	3.2	196	75	515.6	43.1	0	-1	4739.1	227.5	-17.2	348.2	12.4
20TH	73.75	100.3	3.5	196	75	511.0	46.3	0	-2	4638.8	224.0	-16.5	334.1	12.3
21ST	76.75	99.4	3.7	196	75	506.4	49.5	0	-2	4539.5	220.3	-15.9	320.3	12.1
22ND	79.75	98.5	4.0	196	75	501.7	52.8	0	-2	4441.0	216.3	-15.2	306.9	12.0
23RD	82.75	97.6	4.2	196	75	497.1	56.0	0	-2	4343.4	212.1	-14.6	293.7	11.8
24TH	85.75	96.8	4.3	196	75	493.4	57.6	0	-2	4246.6	207.8	-13.9	280.8	11.6
25TH	88.75	96.5	4.3	196	75	491.9	57.3	0	-2	4150.1	203.5	-13.3	268.2	11.4
	91.75	96.2	4.3	196	75	490.4	57.0	0	-2					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 170

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 875 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)			
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z	
26TH	94.75														
27TH	97.75	95.9	4.2	196	75	488.9	56.7	0	-2	4053.9	199.2	-12.7	255.9	11.2	
28TH	100.75	95.6	4.2	196	75	487.4	56.4	0	-2	3957.9	195.0	-12.1	243.9	11.0	
29TH	103.75	95.3	4.2	196	75	485.9	56.1	0	-2	3862.3	190.8	-11.6	232.1	10.8	
30TH	106.75	95.1	4.2	196	75	484.4	55.8	0	-2	3766.9	186.6	-11.0	220.7	10.6	
31ST	109.75	94.8	4.2	196	75	482.9	55.5	0	-2	3671.9	182.4	-10.4	209.5	10.3	
32ND	112.75	94.5	4.1	196	75	481.4	55.2	0	-3	3577.1	178.2	-9.9	198.7	10.1	
33RD	115.75	94.2	4.1	196	75	479.9	54.9	0	-3	3482.7	174.1	-9.4	188.1	9.9	
34TH	118.75	93.9	4.1	196	75	478.6	55.0	0	-3	3388.5	170.0	-8.8	177.8	9.6	
35TH	124.75	188.1	8.5	392	150	479.4	56.4	0	-3	3294.6	165.8	-8.3	167.7	9.4	
36TH	127.75	94.2	4.3	196	75	480.2	57.8	0	-3	3106.4	157.4	-7.4	148.5	8.8	
37TH	130.75	94.3	4.4	196	75	480.7	58.8	0	-3	3012.2	153.0	-6.9	139.4	8.6	
38TH	133.75	94.4	4.5	196	75	481.2	59.7	0	-3	2917.9	148.6	-6.5	130.5	8.3	
39TH	136.75	94.5	4.5	196	75	481.7	60.7	0	-3	2823.4	144.2	-6.0	121.9	8.1	
40TH	139.75	94.6	4.6	196	75	482.2	61.6	0	-3	2728.9	139.6	-5.6	113.5	7.8	
41ST	142.75	94.7	4.7	196	75	482.8	62.6	0	-3	2634.3	135.0	-5.2	105.5	7.5	
42ND	145.75	94.8	4.8	196	75	483.3	63.5	0	-3	2539.5	130.3	-4.8	97.7	7.2	
43RD	148.75	94.9	4.8	196	75	483.8	64.7	0	-3	2444.7	125.5	-4.4	90.2	7.0	
44TH	151.76	94.9	4.8	196	75	483.8	64.7	0	-3	2349.8	120.7	-4.0	83.0	6.7	
45TH	154.76	95.5	5.0	196	75	486.7	66.9	0	-3	2254.3	115.7	-3.7	76.1	6.4	
46TH	157.76	96.1	5.2	196	75	489.7	69.2	0	-3	2158.2	110.5	-3.3	69.5	6.1	
47TH	160.76	96.7	5.4	196	75	492.7	71.4	0	-3	2061.5	105.1	-3.0	63.2	5.8	
48TH	163.76	97.3	5.5	196	75	495.7	73.6	0	-3	1964.2	99.6	-2.7	57.2	5.6	
49TH	166.76	97.9	5.7	196	75	498.7	75.9	0	-3	1866.3	93.9	-2.4	51.4	5.3	
50TH	169.76	98.5	5.9	196	75	501.7	78.1	0	-3	1767.9	88.1	-2.1	46.0	5.0	
		99.1	5.9	196	75	504.9	79.1	0	-2	1668.8	82.1	-1.9	40.8	4.7	
		99.8	5.8	196	75	508.6	78.0	0	-3						

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 170

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	100.5	5.8	196	75	512.3	76.9	0	-3	1569.0	76.3	-1.6	35.9	4.5
52ND	175.76	101.3	5.7	196	75	516.1	75.8	0	-3	1468.5	70.5	-1.4	31.4	4.2
53RD	178.76	102.0	5.6	196	75	519.8	74.7	0	-3	1367.2	64.8	-1.2	27.1	3.9
54TH	181.76	102.7	5.5	196	75	523.5	73.6	0	-3	1265.2	59.2	-1.0	23.2	3.6
55TH	184.76	103.5	5.4	196	75	527.3	72.5	0	-3	1162.4	53.7	-.9	19.5	3.4
56TH	187.76	104.1	5.3	196	75	530.3	70.9	0	-3	1059.0	48.3	-.7	16.2	3.1
57TH	190.76	104.4	5.2	196	75	532.3	69.1	0	-3	954.9	43.0	-.6	13.2	2.8
58TH	193.76	104.8	5.0	196	75	534.3	67.2	0	-3	850.5	37.8	-.5	10.5	2.5
59TH	196.76	105.2	4.9	196	75	536.3	65.3	0	-3	745.6	32.8	-.4	8.1	2.2
60TH	199.76	105.6	4.8	196	75	538.3	63.5	0	-3	640.4	27.9	-.3	6.0	1.9
61ST	202.76	106.0	4.6	196	75	540.3	61.6	0	-3	534.8	23.1	-.2	4.2	1.6
62ND	205.76	177.6	7.4	327	125	542.9	58.9	0	-3	428.8	18.5	-.1	2.8	1.3
63RD	210.76	251.2	11.1	572	219	438.9	50.9	0	-3	251.2	11.1	-.0	1.1	.7
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 180

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-51.9	0	115	0.0	-451.3	2	0	5517.8	-321.4	-1.1	673.7	1.5
2ND	6.75	0.0	-46.4	0	81	0.0	-573.1	1	0	5517.8	-269.6	-2.1	636.5	1.6
3RD	11.75	0.0	-55.4	0	77	0.0	-715.4	-0	0	5517.8	-223.2	-3.4	608.9	1.7
4TH	16.75	0.0	-63.6	0	74	0.0	-860.3	-1	0	5517.8	-167.8	-4.3	581.3	1.6
5TH	21.75	229.4	-120.3	491	124	467.4	-968.9	1	2	5517.8	-104.2	-5.0	553.7	1.6
6TH	30.75	148.1	-21.9	327	115	452.8	-189.9	0	2	5288.4	16.1	-5.4	505.1	2.2
7TH	35.75	146.8	-9.0	327	125	448.8	-72.1	0	2	5140.4	37.9	-5.3	479.0	2.5
8TH	40.75	87.7	-3.9	196	75	447.0	-52.6	0	1	4993.6	47.0	-5.1	453.7	2.8
9TH	43.75	87.4	-2.8	196	75	445.6	-38.0	0	1	4905.9	50.9	-4.9	438.8	2.9
10TH	46.75	87.2	-1.8	196	75	444.3	-23.4	0	0	4818.4	53.7	-4.8	424.3	2.9
11TH	49.75	86.9	-0.7	196	75	442.9	-8.8	0	0	4731.2	55.5	-4.6	409.9	3.0
12TH	52.75	86.6	.4	196	75	441.5	5.8	0	-0	4644.3	56.2	-4.4	395.9	3.0
13TH	55.75	86.2	.8	196	75	439.2	11.3	0	-0	4557.7	55.7	-4.3	382.1	3.0
14TH	58.75	85.5	.9	196	75	435.7	11.4	0	-0	4471.5	54.9	-4.1	368.5	2.9
15TH	61.75	84.8	.9	196	75	432.3	11.4	0	-0	4386.0	54.0	-3.9	355.2	2.9
16TH	64.75	84.1	.9	196	75	428.8	11.5	0	-0	4301.2	53.2	-3.8	342.2	2.9
17TH	67.75	83.5	.9	196	75	425.3	11.5	0	-0	4217.0	52.3	-3.6	329.4	2.9
18TH	70.75	82.8	.9	196	75	421.9	11.6	0	-0	4133.6	51.4	-3.5	316.9	2.8
19TH	73.75	82.1	.9	196	75	418.4	11.7	0	-0	4050.8	50.6	-3.3	304.6	2.8
20TH	76.75	81.4	.9	196	75	414.9	11.7	0	-0	3968.7	49.7	-3.2	292.6	2.8
21ST	79.75	80.7	.9	196	75	411.5	11.8	0	-0	3887.3	48.8	-3.0	280.8	2.8
22ND	82.75	80.1	.9	196	75	408.0	11.9	0	-0	3806.5	47.9	-2.9	269.3	2.8
23RD	85.75	79.5	.9	196	75	405.2	12.0	0	-0	3726.4	47.0	-2.7	258.0	2.7
24TH	88.75	79.3	.9	196	75	404.0	12.3	0	-0	3646.9	46.1	-2.6	246.9	2.7
25TH	91.75	79.0	.9	196	75	402.7	12.5	0	-0	3567.7	45.2	-2.4	236.1	2.7

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 180 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	78.8	1.0	196	75	401.5	12.8	0	-0	3488.6	44.3	-2.3	225.5	2.7
27TH	97.75	78.5	1.0	196	75	400.3	13.0	0	-0	3409.8	43.3	-2.2	215.1	2.7
28TH	100.75	78.3	1.0	196	75	399.0	13.3	0	-1	3331.3	42.3	-2.1	205.0	2.6
29TH	103.75	78.1	1.0	196	75	397.8	13.5	0	-1	3253.0	41.4	-1.9	195.2	2.6
30TH	106.75	77.8	1.0	196	75	396.6	13.8	0	-1	3174.9	40.3	-1.8	185.5	2.5
31ST	109.75	77.6	1.1	196	75	395.3	14.1	0	-1	3097.1	39.3	-1.7	176.1	2.5
32ND	112.75	77.3	1.1	196	75	394.1	14.3	0	-1	3019.5	38.2	-1.6	166.9	2.4
33RD	115.75	77.2	1.1	196	75	393.2	14.6	0	-1	2942.2	37.2	-1.5	158.0	2.3
34TH	118.75	155.2	2.3	392	150	395.4	15.4	0	-1	2865.0	36.1	-1.3	149.3	2.3
35TH	124.75	78.0	1.2	196	75	397.6	16.1	0	-1	2709.8	33.8	-1.1	132.6	2.1
36TH	127.75	78.3	1.2	196	75	399.0	16.6	0	-1	2631.8	32.6	-1.0	124.5	2.0
37TH	130.75	78.6	1.3	196	75	400.5	17.1	0	-1	2553.5	31.3	-.9	116.8	1.9
38TH	133.75	78.9	1.3	196	75	402.0	17.6	0	-1	2474.9	30.0	-.8	109.2	1.9
39TH	136.75	79.2	1.4	196	75	403.4	18.1	0	-1	2396.0	28.7	-.8	101.9	1.8
40TH	139.75	79.4	1.4	196	75	404.9	18.6	0	-1	2316.9	27.4	-.7	94.8	1.7
41ST	142.75	79.7	1.4	196	75	406.3	19.1	0	-1	2237.4	26.0	-.6	88.0	1.6
42ND	145.75	80.0	1.5	196	75	407.8	19.6	0	-1	2157.7	24.5	-.5	81.4	1.5
43RD	148.75	80.6	1.5	196	75	410.9	20.1	0	-1	2077.7	23.1	-.4	75.1	1.4
44TH	151.76	81.3	1.5	196	75	414.1	20.5	0	-1	1997.0	21.6	-.4	69.0	1.4
45TH	154.76	81.9	1.6	196	75	417.3	21.0	0	-1	1915.8	20.0	-.3	63.1	1.3
46TH	157.76	82.5	1.6	196	75	420.5	21.4	0	-1	1833.9	18.4	-.3	57.5	1.2
47TH	160.76	83.1	1.6	196	75	423.7	21.9	0	-1	1751.4	16.8	-.2	52.1	1.1
48TH	163.76	83.8	1.7	196	75	426.9	22.4	0	-1	1668.2	15.2	-.2	47.0	1.0
49TH	166.76	84.5	1.7	196	75	430.4	22.7	0	-1	1584.5	13.5	-.1	42.1	.9
50TH	169.76	85.5	1.7	196	75	435.5	22.7	0	-1	1500.0	11.8	-.1	37.4	.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 180

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	86.4	1.7	196	75	440.5	22.7	0	-1	1414.6	10.1	-0.0	33.1	.8
52ND	175.76	87.4	1.7	196	75	445.5	22.8	0	-1	1328.1	8.4	-0.0	29.0	.7
53RD	178.76	88.4	1.7	196	75	450.5	22.8	0	-1	1240.7	6.7	.0	25.1	.6
54TH	181.76	89.4	1.7	196	75	455.5	22.9	0	-1	1152.3	5.0	.0	21.5	.5
55TH	184.76	90.4	1.7	196	75	460.6	22.9	0	-1	1062.9	3.3	.0	18.2	.4
56TH	187.76	91.5	1.5	196	75	466.1	20.2	0	-1	972.5	1.6	.0	15.1	.3
57TH	190.76	92.7	1.2	196	75	472.1	15.6	0	-1	881.1	.0	.0	12.4	.3
58TH	193.76	93.8	.8	196	75	478.2	11.1	0	-1	788.4	-1.1	.0	9.9	.2
59TH	196.76	95.0	.5	196	75	484.3	6.6	0	-1	694.6	-2.0	.0	7.6	.1
60TH	199.76	96.2	.2	196	75	490.4	2.0	0	-1	599.5	-2.5	.0	5.7	.1
61ST	202.76	97.4	-.2	196	75	496.5	-2.5	-0	-0	503.3	-2.6	.0	4.0	.0
62ND	205.76	165.0	-1.0	327	125	504.6	-7.8	-0	-0	405.9	-2.4	.0	2.7	-0.0
63RD	210.76	240.8	-1.4	572	219	420.8	-6.6	0	0	240.8	-1.4	.0	1.1	-1.1
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 190

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									5420.0	-863.0	71.7	666.7	-23.9
2ND	6.75	0.0	-53.2	0	115	0.0	-462.9	2	0	5420.0	-809.8	66.0	630.2	-23.8
3RD	11.75	0.0	-49.3	0	81	0.0	-608.9	1	0	5420.0	-760.5	62.1	603.1	-23.8
4TH	16.75	0.0	-59.0	0	77	0.0	-761.5	-0	0	5420.0	-701.5	58.5	576.0	-23.8
5TH	21.75	0.0	-67.6	0	74	0.0	-914.3	-1	0	5420.0	-634.0	55.1	548.9	-23.9
6TH	30.75	216.0	-127.3	491	124	440.1	-1025.1	2	3	5204.0	-506.7	50.0	501.0	-23.0
7TH	35.75	141.6	-30.2	327	115	433.0	-262.2	1	4	5062.3	-476.5	47.5	475.4	-22.4
8TH	40.75	141.1	-17.1	327	125	431.6	-136.6	0	4	4921.2	-459.4	45.2	450.4	-21.9
9TH	43.75	84.6	-8.0	196	75	431.2	-107.0	0	3	4836.6	-451.4	43.8	435.8	-21.6
10TH	46.75	84.5	-6.4	196	75	430.9	-84.8	0	3	4752.0	-445.0	42.5	421.4	-21.4
11TH	49.75	84.5	-4.7	196	75	430.5	-62.7	0	3	4667.6	-440.3	41.2	407.3	-21.1
12TH	52.75	84.4	-3.0	196	75	430.2	-40.5	0	3	4583.1	-437.3	39.8	393.4	-20.9
13TH	55.75	84.4	-1.4	196	75	429.9	-18.3	0	2	4498.8	-435.9	38.5	379.8	-20.7
14TH	58.75	84.1	-1.2	196	75	428.3	-15.5	0	2	4414.7	-434.8	37.2	366.4	-20.5
15TH	61.75	83.4	-1.8	196	75	425.2	-24.3	0	3	4331.3	-432.9	35.9	353.3	-20.3
16TH	64.75	82.8	-2.5	196	75	422.1	-33.1	0	3	4248.4	-430.5	34.6	340.4	-20.0
17TH	67.75	82.2	-3.1	196	75	419.0	-41.9	0	3	4166.2	-427.3	33.3	327.8	-19.8
18TH	70.75	81.6	-3.8	196	75	415.9	-50.7	0	4	4084.6	-423.5	32.1	315.4	-19.5
19TH	73.75	81.0	-4.5	196	75	412.8	-59.5	0	4	4003.6	-419.1	30.8	303.3	-19.2
20TH	76.75	80.4	-5.1	196	75	409.7	-68.2	0	4	3923.2	-414.0	29.5	291.4	-18.8
21ST	79.75	79.8	-5.8	196	75	406.6	-77.0	0	4	3843.4	-408.2	28.3	279.7	-18.5
22ND	82.75	79.2	-6.4	196	75	403.5	-85.8	0	5	3764.2	-401.7	27.1	268.3	-18.1
23RD	85.75	78.6	-7.1	196	75	400.4	-94.6	0	5	3685.7	-394.7	25.9	257.1	-17.7
24TH	88.75	78.0	-7.5	196	75	397.6	-100.5	1	5	3607.6	-387.1	24.7	246.2	-17.3
25TH	91.75	77.6	-7.7	196	75	395.7	-103.2	1	5	3530.0	-379.4	23.6	235.5	-16.9
		77.3	-7.9	196	75	393.7	-105.8	1	5					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 190

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	76.9	-8.1	196	75	391.8	-108.5	1	5	3452.7	-371.5	22.5	225.0	-16.5
27TH	97.75	76.5	-8.3	196	75	389.8	-111.1	1	5	3375.9	-363.3	21.4	214.8	-16.1
28TH	100.75	76.1	-8.5	196	75	387.8	-113.8	1	5	3299.4	-355.0	20.3	204.8	-15.6
29TH	103.75	75.7	-8.7	196	75	385.9	-116.4	1	5	3223.3	-346.5	19.2	195.0	-15.2
30TH	106.75	75.3	-8.9	196	75	383.9	-119.1	1	5	3147.5	-337.7	18.2	185.4	-14.8
31ST	109.75	75.0	-9.1	196	75	382.0	-121.7	1	5	3072.2	-328.8	17.2	176.1	-14.4
32ND	112.75	74.6	-9.3	196	75	380.0	-124.4	1	6	2997.3	-319.7	16.2	167.0	-14.0
33RD	115.75	74.3	-9.5	196	75	378.6	-126.3	1	6	2922.7	-310.4	15.3	158.1	-13.6
34TH	118.75	149.8	-19.0	392	150	381.7	-126.9	1	6	2848.4	-300.9	14.4	149.5	-13.1
35TH	124.75	75.5	-9.6	196	75	384.8	-127.4	1	6	2698.6	-281.9	12.6	132.8	-12.3
36TH	127.75	75.9	-9.6	196	75	386.9	-127.7	1	6	2623.1	-272.3	11.8	124.8	-11.9
37TH	130.75	75.9	-9.6	196	75	386.9	-127.7	1	6	2547.2	-262.7	11.0	117.1	-11.4
38TH	133.75	76.3	-9.6	196	75	388.9	-128.1	1	6	2470.9	-253.1	10.2	109.5	-11.0
39TH	136.75	76.7	-9.6	196	75	391.0	-128.5	1	6	2394.1	-243.5	9.5	102.2	-10.6
40TH	139.75	77.1	-9.7	196	75	393.1	-128.8	1	6	2317.0	-233.8	8.7	95.2	-10.2
41ST	142.75	77.5	-9.7	196	75	395.1	-129.2	1	6	2239.5	-224.2	8.1	88.3	-9.7
42ND	145.75	77.9	-9.7	196	75	397.2	-129.5	1	6	2161.5	-214.5	7.4	81.7	-9.3
43RD	148.75	78.3	-9.7	196	75	399.3	-129.8	1	6	2083.2	-204.7	6.8	75.4	-8.8
44TH	151.76	79.2	-9.7	196	75	403.8	-129.3	1	5	2003.9	-195.0	6.2	69.2	-8.4
45TH	154.76	80.1	-9.7	196	75	408.4	-128.9	1	5	1923.8	-185.4	5.6	63.4	-8.0
46TH	157.76	81.1	-9.6	196	75	413.1	-128.5	1	5	1842.7	-175.7	5.1	57.7	-7.6
47TH	160.76	82.0	-9.6	196	75	417.7	-128.1	1	5	1760.8	-166.1	4.5	52.3	-7.1
48TH	163.76	82.9	-9.6	196	75	422.3	-127.7	1	5	1677.9	-156.5	4.1	47.1	-6.7
49TH	166.76	83.8	-9.5	196	75	426.9	-127.3	1	5	1594.1	-147.0	3.6	42.2	-6.3
50TH	169.76	84.7	-9.5	196	75	431.8	-126.7	1	5	1509.4	-137.5	3.2	37.6	-5.9
		85.9	-9.4	196	75	437.9	-125.8	1	5					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 190

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									1423.5	-128.1	2.8	33.2	-5.5
52ND	175.76	87.1	-9.4	196	75	443.9	-124.8	0	5	1336.3	-118.7	2.4	29.0	-5.1
53RD	178.76	88.3	-9.3	196	75	449.9	-123.8	0	4	1248.1	-109.4	2.1	25.2	-4.7
54TH	181.76	89.5	-9.2	196	75	456.0	-122.9	0	4	1159.6	-100.2	1.8	21.6	-4.3
55TH	184.76	90.7	-9.1	196	75	462.0	-121.9	0	4	1067.9	-91.1	1.5	18.2	-3.9
56TH	187.76	91.9	-9.1	196	75	468.1	-121.0	0	4	976.1	-82.0	1.2	15.1	-3.5
57TH	190.76	92.9	-8.9	196	75	473.5	-119.2	0	4	883.1	-73.1	1.0	12.4	-3.2
58TH	193.76	93.8	-8.8	196	75	478.1	-116.0	0	4	789.3	-64.3	.8	9.8	-2.8
59TH	196.76	94.7	-8.6	196	75	482.7	-114.5	0	4	694.6	-55.7	.6	7.6	-2.5
60TH	199.76	95.6	-8.4	196	75	487.3	-112.1	0	4	599.0	-47.3	.4	5.7	-2.1
61ST	202.76	96.5	-8.2	196	75	491.9	-109.7	0	4	502.5	-39.1	.3	4.0	-1.8
62ND	205.76	97.4	-8.1	196	75	496.4	-107.4	0	3	405.1	-31.1	.2	2.7	-1.4
63RD	210.76	164.4	-12.9	327	125	502.6	-103.2	0	3	240.7	-18.2	.1	1.1	-.9
TOP	219.51	240.7	-18.2	572	219	420.6	-83.1	0	4	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 200

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-51.0	0	115	0.0	-443.5	1	0	5519.0	-925.1	77.5	669.3	-30.7
2ND	6.75	0.0	-50.2	0	81	0.0	-619.5	0	0	5519.0	-874.2	71.5	632.1	-30.6
3RD	11.75	0.0	-58.9	0	77	0.0	-760.8	-1	0	5519.0	-824.0	67.2	604.5	-30.6
4TH	16.75	0.0	-66.2	0	74	0.0	-896.2	-1	0	5519.0	-765.1	63.2	576.9	-30.7
5TH	21.75	222.6	-123.3	491	124	453.6	-993.0	2	3	5519.0	-698.9	59.6	549.3	-30.7
6TH	30.75	147.0	-38.7	327	115	449.6	-336.1	1	4	5296.4	-575.6	53.8	500.6	-29.8
7TH	35.75	145.9	-26.5	327	125	446.2	-211.9	1	4	5149.3	-536.9	51.1	474.5	-29.1
8TH	40.75	87.0	-12.8	196	75	443.5	-171.2	1	4	5003.4	-510.4	48.4	449.1	-28.5
9TH	43.75	86.6	-10.5	196	75	441.4	-140.7	0	3	4916.4	-497.6	46.9	434.3	-28.2
10TH	46.75	86.2	-8.3	196	75	439.3	-110.1	0	3	4829.8	-487.0	45.4	419.6	-27.9
11TH	49.75	85.8	-6.0	196	75	437.3	-79.6	0	3	4743.6	-478.8	44.0	405.3	-27.6
12TH	52.75	85.4	-3.7	196	75	435.2	-49.1	0	3	4657.7	-472.8	42.6	391.2	-27.4
13TH	55.75	85.1	-3.1	196	75	433.8	-41.7	0	3	4572.3	-469.1	41.2	377.3	-27.1
14TH	58.75	85.0	-3.6	196	75	433.2	-48.1	0	3	4487.2	-466.0	39.8	363.7	-26.9
15TH	61.75	84.9	-4.1	196	75	432.6	-54.5	0	3	4402.2	-462.4	38.4	350.4	-26.6
16TH	64.75	84.8	-4.6	196	75	432.6	-60.9	0	3	4317.3	-458.3	37.0	337.3	-26.3
17TH	67.75	84.8	-5.0	196	75	431.9	-67.4	0	4	4232.6	-453.7	35.6	324.5	-26.0
18TH	70.75	84.6	-5.5	196	75	431.3	-73.8	0	4	4147.9	-448.7	34.3	311.9	-25.7
19TH	73.75	84.5	-5.5	196	75	430.7	-73.8	0	4	4063.4	-443.2	32.9	299.6	-25.3
20TH	76.75	84.4	-6.0	196	75	430.1	-80.2	0	5	3979.0	-437.1	31.6	287.5	-24.9
21ST	79.75	84.3	-6.5	196	75	429.5	-86.6	0	5	3894.7	-430.7	30.3	275.7	-24.5
22ND	82.75	84.2	-7.0	196	75	428.8	-93.0	0	5	3810.6	-423.7	29.0	264.2	-24.0
23RD	85.75	84.0	-7.5	196	75	428.2	-99.4	1	6	3726.5	-416.2	27.8	252.9	-23.5
24TH	88.75	83.8	-7.8	196	75	427.0	-104.1	1	6	3642.7	-408.4	26.5	241.8	-23.0
25TH	91.75	83.3	-8.0	196	75	424.5	-106.8	1	6	3559.4	-400.4	25.3	231.0	-22.5
		82.8	-8.2	196	75	422.0	-109.4	1	6					

TABLE 7 SHEAR AND MOMENT DIAGRAMS
WIND DIRECTION 200

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	82.3	-8.4	196	75	419.4	-112.1	1	6	3476.6	-392.2	24.1	220.5	-22.0
27TH	97.75	81.8	-8.6	196	75	416.0	-114.8	1	6	3394.3	-383.8	23.0	210.1	-21.5
28TH	100.75	81.3	-8.8	196	75	414.4	-117.4	1	6	3312.5	-375.2	21.8	200.1	-21.0
29TH	103.75	80.8	-9.0	196	75	411.8	-120.1	1	6	3231.2	-366.4	20.7	190.3	-20.5
30TH	106.75	80.3	-9.2	196	75	409.3	-122.7	1	6	3150.4	-357.4	19.6	180.7	-19.9
31ST	109.75	79.8	-9.4	196	75	406.8	-125.4	1	7	3070.1	-348.2	18.6	171.4	-19.4
32ND	112.75	79.3	-9.6	196	75	404.2	-128.1	1	7	2990.2	-338.8	17.5	162.3	-18.9
33RD	115.75	78.9	-9.7	196	75	402.2	-130.0	1	7	2910.9	-329.2	16.5	153.4	-18.3
34TH	118.75	158.5	-19.5	392	150	403.8	-130.4	1	7	2832.0	-319.4	15.6	144.8	-17.8
35TH	124.75	79.6	-9.8	196	75	405.4	-130.8	1	7	2673.5	-299.9	13.7	128.3	-16.7
36TH	127.75	79.8	-9.8	196	75	406.5	-131.0	1	7	2594.0	-290.1	12.8	120.4	-16.2
37TH	130.75	79.8	-9.8	196	75	407.6	-131.3	1	7	2514.2	-280.3	12.0	112.7	-15.7
38TH	133.75	80.0	-9.8	196	75	407.6	-131.3	1	7	2434.2	-270.4	11.1	105.3	-15.1
39TH	136.75	80.2	-9.9	196	75	408.6	-131.5	1	7	2354.0	-260.6	10.3	98.1	-14.6
40TH	139.75	80.4	-9.9	196	75	409.7	-131.8	1	7	2273.6	-250.7	9.6	91.2	-14.0
41ST	142.75	80.6	-9.9	196	75	410.8	-132.0	1	7	2193.0	-240.8	8.8	84.5	-13.5
42ND	145.75	80.8	-9.9	196	75	411.9	-132.3	1	7	2112.2	-230.9	8.1	78.0	-12.9
43RD	148.75	81.0	-9.9	196	75	412.9	-132.5	1	7	2031.2	-221.0	7.4	71.8	-12.4
44TH	151.76	81.8	-9.9	196	75	416.6	-132.4	1	7	1949.4	-211.0	6.8	65.8	-11.9
45TH	154.76	82.5	-9.9	196	75	420.3	-132.3	1	6	1866.9	-201.1	6.2	60.1	-11.3
46TH	157.76	83.2	-9.9	196	75	424.1	-132.2	1	6	1783.7	-191.2	5.6	54.6	-10.8
47TH	160.76	83.9	-9.9	196	75	427.8	-132.1	1	6	1699.8	-181.3	5.0	49.4	-10.3
48TH	163.76	84.7	-9.9	196	75	431.5	-132.0	1	6	1615.1	-171.4	4.5	44.4	-9.7
49TH	166.76	85.4	-9.9	196	75	435.2	-132.0	1	6	1529.7	-161.5	4.0	39.7	-9.2
50TH	169.76	86.1	-9.9	196	75	438.8	-132.0	1	6	1443.6	-151.6	3.5	35.3	-8.6
		86.7	-9.9	196	75	441.7	-132.4	1	6					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 200

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH·M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									1356.9	-141.7	3.1	31.1	-8.1
52ND	175.76	87.3	-10.0	196	75	444.7	-132.0	1	6	1269.6	-131.7	2.7	27.1	-7.6
53RD	178.76	87.8	-10.0	196	75	447.6	-133.1	1	6	1181.8	-121.7	2.3	23.4	-7.1
54TH	181.76	88.4	-10.0	196	75	450.6	-133.5	1	6	1093.4	-111.7	2.0	20.0	-6.5
55TH	184.76	89.0	-10.0	196	75	453.5	-133.9	1	6	1004.4	-101.7	1.6	16.9	-6.0
56TH	187.76	89.6	-10.1	196	75	456.5	-134.2	1	6	914.8	-91.6	1.3	14.0	-5.5
57TH	190.76	90.0	-10.0	196	75	458.7	-133.1	1	6	824.8	-81.7	1.1	11.4	-5.0
58TH	193.76	90.3	-9.8	196	75	460.2	-131.0	1	6	734.5	-71.8	.9	9.1	-4.4
59TH	196.76	90.6	-9.7	196	75	461.6	-128.9	1	6	643.9	-62.2	.7	7.0	-3.9
60TH	199.76	90.9	-9.5	196	75	463.0	-126.7	1	6	553.0	-52.7	.5	5.2	-3.4
61ST	202.76	91.1	-9.3	196	75	464.5	-124.6	1	6	461.9	-43.3	.3	3.7	-2.8
62ND	205.76	91.4	-9.2	196	75	465.9	-122.5	1	6	370.5	-34.2	.2	2.4	-2.3
63RD	210.76	153.0	-14.7	327	125	467.8	-118.0	1	6	217.5	-19.4	.1	1.0	-1.4
TOP	219.51	217.5	-19.4	572	219	380.0	-88.8	1	7	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 210

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									5120.9	-843.3	73.3	616.0	-35.1
2ND	6.75	0.0	-54.4	0	115	0.0	-473.5	1	0	5120.9	-788.8	67.8	581.5	-35.0
3RD	11.75	0.0	-53.1	0	81	0.0	-655.7	-0	0	5120.9	-735.8	64.0	555.8	-35.0
4TH	16.75	0.0	-55.8	0	77	0.0	-720.9	-0	0	5120.9	-679.9	60.5	530.2	-35.1
5TH	21.75	0.0	-56.6	0	74	0.0	-765.3	-0	0	5120.9	-623.4	57.2	504.6	-35.1
6TH	30.75	216.9	-98.3	491	124	441.8	-791.7	2	4	4904.0	-525.1	52.1	459.5	-34.0
7TH	35.75	142.5	-31.8	327	115	435.6	-276.3	1	4	4761.6	-493.3	49.5	435.4	-33.3
8TH	35.75	140.7	-21.6	327	125	430.2	-173.0	1	4	4620.9	-471.6	47.1	411.9	-32.7
8TH	40.75	83.6	-10.3	196	75	425.8	-136.9	1	4	4537.3	-461.4	45.7	398.2	-32.4
9TH	43.75	82.9	-8.2	196	75	422.5	-109.7	0	4	4454.4	-453.2	44.3	384.7	-32.0
10TH	46.75	82.3	-6.2	196	75	419.3	-82.6	0	4	4372.1	-447.0	43.0	371.4	-31.7
11TH	49.75	81.6	-4.2	196	75	416.0	-55.4	0	4	4290.5	-442.8	41.6	358.4	-31.4
12TH	52.75	81.0	-2.1	196	75	412.7	-28.3	0	4	4209.5	-440.7	40.3	345.7	-31.1
13TH	55.75	80.4	-1.7	196	75	409.7	-22.7	0	4	4129.1	-439.0	39.0	333.2	-30.8
14TH	58.75	79.9	-2.2	196	75	407.1	-30.0	0	4	4049.2	-436.7	37.7	320.9	-30.4
15TH	61.75	79.4	-2.8	196	75	404.6	-37.2	0	4	3969.8	-434.0	36.4	308.9	-30.1
16TH	64.75	78.9	-3.3	196	75	402.0	-44.5	0	5	3891.0	-430.6	35.1	297.1	-29.7
17TH	67.75	78.4	-3.9	196	75	399.4	-51.8	0	5	3812.6	-426.7	33.8	285.5	-29.3
18TH	70.75	77.9	-4.4	196	75	396.8	-59.0	0	5	3734.7	-422.3	32.5	274.2	-28.9
19TH	73.75	77.4	-5.0	196	75	394.2	-66.3	0	5	3657.4	-417.3	31.3	263.1	-28.5
20TH	76.75	76.9	-5.5	196	75	391.7	-73.6	0	6	3580.5	-411.8	30.0	252.3	-28.1
21ST	79.75	76.4	-6.1	196	75	389.1	-80.8	0	6	3504.2	-405.8	28.8	241.6	-27.6
22ND	82.75	75.8	-6.6	196	75	386.5	-88.1	1	6	3428.3	-399.2	27.6	231.2	-27.1
23RD	85.75	75.5	-7.0	196	75	384.5	-93.0	1	7	3352.9	-392.2	26.4	221.1	-26.6
24TH	88.75	75.3	-7.1	196	75	383.9	-95.3	1	7	3277.5	-385.1	25.2	211.1	-26.1
25TH	91.75	75.2	-7.3	196	75	383.3	-97.5	1	7					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 210

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	75.1	-7.5	196	75	382.6	-99.8	1	7	3202.3	-377.7	24.1	201.4	-25.6
27TH	97.75	75.0	-7.7	196	75	382.0	-102.0	1	7	3127.2	-370.3	23.0	191.9	-25.1
28TH	100.75	74.8	-7.8	196	75	381.4	-104.3	1	7	3052.3	-362.6	21.9	182.6	-24.5
29TH	103.75	74.7	-8.0	196	75	380.8	-106.6	1	7	2977.4	-354.8	20.8	173.6	-24.0
30TH	106.75	74.6	-8.2	196	75	380.2	-108.8	1	7	2902.7	-346.8	19.7	164.8	-23.5
31ST	109.75	74.5	-8.3	196	75	379.5	-111.1	1	7	2828.1	-338.6	18.7	156.2	-22.9
32ND	112.75	74.4	-8.5	196	75	378.9	-113.3	1	7	2753.6	-330.3	17.7	147.8	-22.4
33RD	115.75	74.3	-8.6	196	75	378.6	-115.3	1	7	2679.3	-321.8	16.7	139.7	-21.8
34TH	118.75	149.3	-17.6	392	150	380.5	-117.3	1	8	2605.0	-313.2	15.8	131.7	-21.3
35TH	124.75	75.1	-8.9	196	75	382.5	-119.2	1	8	2455.7	-295.6	13.9	116.6	-20.1
36TH	127.75	75.3	-9.0	196	75	383.8	-120.5	1	8	2380.6	-286.7	13.1	109.3	-19.6
37TH	130.75	75.6	-9.1	196	75	385.1	-121.9	1	8	2305.3	-277.6	12.2	102.3	-19.0
38TH	133.75	75.8	-9.2	196	75	386.5	-123.2	1	8	2229.7	-268.5	11.4	95.5	-18.4
39TH	136.75	75.8	-9.2	196	75	386.5	-123.2	1	8	2153.9	-259.3	10.6	88.9	-17.8
40TH	139.75	76.1	-9.3	196	75	387.8	-124.5	1	8	2077.8	-249.9	9.8	82.5	-17.2
41ST	142.75	76.4	-9.4	196	75	389.1	-125.8	1	8	2001.4	-240.5	9.1	76.4	-16.5
42ND	145.75	76.6	-9.5	196	75	390.4	-127.1	1	8	1924.8	-231.0	8.4	70.5	-15.9
43RD	148.75	76.9	-9.6	196	75	391.7	-128.1	1	8	1847.9	-221.4	7.7	64.9	-15.3
44TH	151.76	77.1	-9.6	196	75	392.9	-127.6	1	8	1770.8	-211.8	7.1	59.4	-14.7
45TH	154.76	77.3	-9.5	196	75	394.1	-127.0	1	8	1693.5	-202.3	6.5	54.2	-14.0
46TH	157.76	77.6	-9.5	196	75	395.2	-126.5	1	8	1616.0	-192.8	5.9	49.3	-13.4
47TH	160.76	77.8	-9.4	196	75	396.4	-125.9	1	8	1538.2	-183.4	5.3	44.6	-12.8
48TH	163.76	78.0	-9.4	196	75	397.6	-125.3	1	8	1460.2	-174.0	4.8	40.1	-12.1
49TH	166.76	78.2	-9.4	196	75	398.7	-124.8	1	8	1381.9	-164.6	4.3	35.8	-11.5
50TH	169.76	78.5	-9.3	196	75	400.1	-124.6	1	8	1303.4	-155.3	3.8	31.8	-10.8
		78.9	-9.4	196	75	402.1	-125.2	1	8					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 210

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									1224.5	-145.9	3.3	28.0	-10.2
52ND	175.76	79.3	-9.4	196	75	404.2	-125.8	1	8	1145.2	-136.4	2.9	24.4	-9.5
53RD	178.76	79.7	-9.5	196	75	406.2	-126.4	1	8	1065.5	-127.0	2.5	21.1	-8.9
54TH	181.76	80.1	-9.5	196	75	408.3	-127.0	1	8	985.4	-117.5	2.1	18.0	-8.2
55TH	184.76	80.5	-9.6	196	75	410.3	-127.5	1	8	904.8	-107.9	1.8	15.2	-7.6
56TH	187.76	80.9	-9.6	196	75	412.4	-128.1	1	8	823.9	-98.3	1.5	12.6	-6.9
57TH	187.76	81.3	-9.7	196	75	414.1	-129.1	1	8	742.7	-88.6	1.2	10.2	-6.2
58TH	190.76	81.5	-9.8	196	75	415.3	-130.2	1	8	661.2	-78.8	1.0	8.1	-5.6
58TH	193.76	81.7	-9.8	196	75	416.5	-131.4	1	8	579.4	-69.0	.7	6.3	-4.9
59TH	196.76	82.0	-9.9	196	75	417.8	-132.6	1	8	497.5	-59.1	.5	4.7	-4.2
60TH	199.76	82.2	-10.0	196	75	419.0	-133.7	1	8	415.2	-49.0	.4	3.3	-3.6
61ST	202.76	82.5	-10.1	196	75	420.2	-134.9	1	8	332.8	-38.9	.2	2.2	-2.9
62ND	205.76	138.0	-16.7	327	125	421.9	-134.0	1	8	194.8	-22.2	.1	.9	-1.7
63RD	210.76	194.8	-22.2	572	219	340.4	-101.5	1	9	0.0	0.0	0.0	0.0	0.0
TOP	219.51													

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 220

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-44.4	0	115	0.0	-386.2	1	0	4109.9	-824.9	85.4	506.2	-35.9
2ND	6.75	0.0	-39.9	0	81	0.0	-492.9	-0	0	4109.9	-780.6	80.0	478.4	-35.8
3RD	11.75	0.0	-40.4	0	77	0.0	-522.0	-1	0	4109.9	-740.7	76.2	457.9	-35.8
4TH	16.75	0.0	-39.7	0	74	0.0	-537.4	-1	0	4109.9	-700.2	72.6	437.3	-35.9
5TH	21.75	163.9	-67.6	491	124	333.9	-544.6	2	4	4109.9	-660.5	69.2	416.8	-35.9
6TH	30.75	107.6	-22.6	327	115	329.2	-196.0	1	4	3946.0	-592.9	63.6	380.5	-35.1
7TH	35.75	106.5	-16.0	327	125	325.5	-128.3	1	4	3838.4	-570.3	60.7	361.1	-34.7
8TH	40.75	63.3	-8.0	196	75	322.6	-106.4	1	4	3731.9	-554.3	57.8	342.1	-34.2
9TH	43.75	62.9	-6.7	196	75	320.4	-90.0	0	4	3668.6	-546.3	56.2	331.0	-33.9
10TH	46.75	62.4	-5.5	196	75	318.2	-73.6	0	4	3605.8	-539.6	54.6	320.1	-33.7
11TH	49.75	62.0	-4.3	196	75	316.0	-57.2	0	5	3543.3	-534.1	53.0	309.4	-33.4
12TH	52.75	61.6	-3.1	196	75	313.9	-40.8	0	5	3481.3	-529.8	51.4	298.9	-33.1
13TH	55.75	61.1	-2.9	196	75	311.6	-39.1	0	5	3419.7	-526.7	49.8	288.5	-32.8
14TH	58.75	60.7	-3.5	196	75	309.3	-46.2	0	5	3358.6	-523.8	48.2	278.4	-32.5
15TH	61.75	60.2	-4.0	196	75	306.9	-53.4	0	5	3297.9	-520.3	46.6	268.4	-32.2
16TH	64.75	59.8	-4.5	196	75	304.6	-60.5	0	6	3237.6	-516.3	45.1	258.6	-31.9
17TH	67.75	59.3	-5.1	196	75	302.2	-67.7	1	6	3177.9	-511.8	43.5	248.9	-31.5
18TH	70.75	58.8	-5.6	196	75	299.9	-74.8	1	6	3118.6	-506.7	42.0	239.5	-31.2
19TH	73.75	58.4	-6.1	196	75	297.5	-81.9	1	7	3059.7	-501.1	40.5	230.2	-30.8
20TH	76.75	57.9	-6.7	196	75	295.2	-89.1	1	7	3001.3	-495.0	39.0	221.1	-30.4
21ST	79.75	57.5	-7.2	196	75	292.9	-96.2	1	7	2943.4	-488.3	37.5	212.2	-30.0
22ND	82.75	57.0	-7.7	196	75	290.5	-103.3	1	8	2885.9	-481.1	36.1	203.5	-29.5
23RD	85.75	56.7	-8.1	196	75	289.2	-107.7	1	8	2828.9	-473.3	34.6	194.9	-29.1
24TH	88.75	56.9	-8.2	196	75	290.2	-108.8	1	8	2772.2	-465.3	33.2	186.5	-28.6
25TH	91.75	57.1	-8.2	196	75	291.2	-110.0	1	8	2715.2	-457.1	31.9	178.3	-28.1

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 220

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	57.3	-8.3	196	75	292.2	-111.1	1	8	2658.1	-448.9	30.5	170.2	-27.7
27TH	97.75	57.5	-8.4	196	75	293.2	-112.3	1	9	2600.7	-440.5	29.2	162.3	-27.2
28TH	100.75	57.7	-8.5	196	75	294.2	-113.4	1	9	2543.2	-432.1	27.8	154.6	-26.7
29TH	103.75	57.9	-8.6	196	75	295.3	-114.6	1	9	2485.5	-423.6	26.6	147.1	-26.1
30TH	106.75	58.1	-8.7	196	75	296.3	-115.7	1	9	2427.5	-415.0	25.3	139.7	-25.6
31ST	109.75	58.3	-8.8	196	75	297.3	-116.8	1	9	2369.4	-406.4	24.1	132.5	-25.1
32ND	112.75	58.5	-8.8	196	75	298.3	-118.0	1	9	2311.0	-397.6	22.9	125.5	-24.6
33RD	115.75	58.8	-8.9	196	75	299.6	-119.0	1	9	2252.5	-388.8	21.7	118.6	-24.0
34TH	118.75	58.8	-8.9	196	75	299.6	-119.0	1	9	2193.7	-379.8	20.5	112.0	-23.5
35TH	124.75	119.3	-18.0	392	150	303.9	-119.9	1	9	2074.5	-361.9	18.3	99.2	-22.3
36TH	127.75	60.5	-9.1	196	75	308.2	-120.8	1	10	2014.0	-352.8	17.2	93.0	-21.7
37TH	130.75	61.0	-9.1	196	75	311.0	-121.5	1	10	1953.0	-343.7	16.2	87.1	-21.1
38TH	133.75	61.6	-9.2	196	75	313.9	-122.1	1	10	1891.4	-334.5	15.2	81.3	-20.5
39TH	136.75	62.2	-9.2	196	75	316.8	-122.7	1	10	1829.2	-325.4	14.2	75.7	-19.9
40TH	139.75	62.7	-9.2	196	75	319.6	-123.3	1	10	1766.5	-316.1	13.2	70.3	-19.3
41ST	142.75	63.3	-9.3	196	75	322.5	-123.9	1	10	1703.2	-306.8	12.3	65.1	-18.6
42ND	145.75	63.9	-9.3	196	75	325.4	-124.5	1	10	1639.3	-297.5	11.4	60.1	-18.0
43RD	148.75	64.4	-9.4	196	75	328.2	-125.8	1	10	1574.9	-288.1	10.5	55.3	-17.3
44TH	148.75	64.8	-9.8	196	75	330.2	-130.5	2	10	1510.1	-278.3	9.7	50.7	-16.6
45TH	151.76	65.2	-10.1	196	75	332.2	-135.3	2	10	1444.9	-268.1	8.8	46.2	-15.9
46TH	154.76	65.6	-10.5	196	75	334.2	-140.0	2	10	1379.3	-257.6	8.0	42.0	-15.3
47TH	157.76	66.0	-10.9	196	75	336.2	-144.8	2	10	1313.4	-246.8	7.3	38.0	-14.6
48TH	160.76	66.4	-11.2	196	75	338.1	-149.5	2	10	1247.0	-235.6	6.6	34.1	-13.8
49TH	163.76	66.7	-11.6	196	75	340.1	-154.3	2	10	1180.3	-224.0	5.9	30.5	-13.1
49TH	166.76	67.1	-11.9	196	75	342.1	-158.4	2	11	1113.1	-212.1	5.2	27.0	-12.4
50TH	169.76	67.5	-12.1	196	75	344.2	-161.4	2	11					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 220

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MM-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	68.4	-12.3	196	75	346.3	-164.4	2	11	1045.6	-200.0	4.6	23.8	-11.6
52ND	175.76	68.4	-12.6	196	75	348.4	-167.5	2	11	977.6	-187.7	4.0	20.8	-10.9
53RD	178.76	68.8	-12.8	196	75	350.4	-170.5	2	11	909.3	-175.1	3.5	17.9	-10.2
54TH	181.76	69.2	-13.0	196	75	352.5	-173.6	2	11	840.5	-162.4	3.0	15.3	-9.4
55TH	184.76	69.6	-13.2	196	75	354.6	-176.6	2	11	771.3	-149.4	2.5	12.9	-8.6
56TH	187.76	69.9	-13.4	196	75	356.1	-178.4	2	11	701.8	-136.1	2.1	10.7	-7.9
57TH	190.76	70.0	-13.4	196	75	356.7	-179.4	2	11	631.9	-122.7	1.7	8.7	-7.1
58TH	193.76	70.1	-13.5	196	75	357.3	-180.4	2	11	561.9	-109.3	1.3	6.9	-6.3
59TH	196.76	70.2	-13.6	196	75	357.9	-181.4	2	11	491.8	-95.8	1.0	5.3	-5.5
60TH	199.76	70.4	-13.7	196	75	358.5	-182.4	2	11	421.5	-82.2	.8	3.9	-4.7
61ST	202.76	70.5	-13.7	196	75	359.1	-183.4	2	11	351.2	-68.5	.5	2.8	-4.0
62ND	205.76	117.7	-22.7	327	125	359.9	-182.0	2	11	280.7	-54.7	.4	1.8	-3.2
63RD	210.76	163.0	-32.0	572	219	284.8	-146.4	2	11	163.0	-32.0	.1	.7	-1.9
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS : PAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 230 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									3456.4	-1104.3	122.4	420.7	-40.8
2ND	6.75	0.0	-41.2	0	115	0.0	-358.2	0	0	3456.4	-1063.1	115.1	397.4	-40.8
3RD	11.75	0.0	-35.7	0	81	0.0	-441.4	-0	0	3456.4	-1027.4	109.8	380.1	-40.8
4TH	16.75	0.0	-35.5	0	77	0.0	-459.0	-0	0	3456.4	-991.9	104.8	362.8	-40.8
5TH	21.75	0.0	-34.3	0	74	0.0	-464.7	-0	0	3456.4	-957.5	99.9	345.6	-40.8
6TH	30.75	141.8	-58.0	491	124	288.9	-466.9	2	4	3314.6	-899.5	91.6	315.1	-40.1
7TH	35.75	93.7	-25.3	327	115	286.5	-219.6	1	4	3220.9	-874.3	87.1	298.7	-39.7
8TH	40.75	93.1	-22.1	327	125	284.6	-176.7	1	5	3127.8	-852.2	82.8	282.9	-39.2
9TH	43.75	55.6	-12.5	196	75	283.2	-166.3	1	5	3072.2	-839.7	80.3	273.6	-38.9
10TH	46.75	55.4	-11.9	196	75	282.1	-158.4	1	5	3016.9	-827.8	77.8	264.4	-38.6
11TH	49.75	55.1	-11.3	196	75	281.0	-150.6	1	5	2961.8	-816.6	75.3	255.5	-38.3
12TH	52.75	54.9	-10.7	196	75	279.9	-142.7	1	5	2906.8	-805.9	72.9	246.7	-38.0
13TH	55.75	54.7	-10.1	196	75	278.8	-134.9	1	6	2852.1	-795.7	70.5	238.0	-37.7
14TH	58.75	54.3	-10.0	196	75	276.5	-134.0	1	6	2797.9	-785.7	68.1	229.6	-37.4
15TH	61.75	53.5	-10.3	196	75	272.9	-137.2	1	7	2744.3	-775.4	65.7	221.2	-37.0
16TH	64.75	52.8	-10.5	196	75	269.2	-140.5	1	7	2691.5	-764.9	63.4	213.1	-36.6
17TH	67.75	52.1	-10.8	196	75	265.6	-143.7	2	8	2639.4	-754.1	61.2	205.1	-36.2
18TH	70.75	51.4	-11.0	196	75	262.0	-146.9	2	8	2588.0	-743.1	58.9	197.3	-35.8
19TH	73.75	50.7	-11.3	196	75	258.3	-150.2	2	9	2537.3	-731.8	56.7	189.6	-35.3
20TH	76.75	50.0	-11.5	196	75	254.7	-153.4	2	9	2487.3	-720.3	54.5	182.0	-34.8
21ST	79.75	49.3	-11.7	196	75	251.0	-156.6	2	10	2438.0	-708.6	52.4	174.6	-34.3
22ND	82.75	48.5	-12.0	196	75	247.4	-159.9	3	11	2389.5	-696.6	50.3	167.4	-33.7
23RD	85.75	47.8	-12.2	196	75	243.8	-163.1	3	11	2341.6	-684.4	48.2	160.3	-33.2
24TH	88.75	47.4	-12.4	196	75	241.5	-165.7	3	12	2294.2	-672.0	46.2	153.3	-32.6
25TH	91.75	47.6	-12.6	196	75	242.6	-167.7	3	12	2246.6	-659.4	44.2	146.5	-32.0
		47.8	-12.7	196	75	243.6	-169.6	3	12					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 230

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	48.0	-12.9	196	75	244.7	-171.6	3	12	2198.8	-646.7	42.2	139.9	-31.3
27TH	97.75	48.2	-13.0	196	75	245.7	-173.5	3	12	2150.8	-633.8	40.3	133.3	-30.7
28TH	100.75	48.4	-13.2	196	75	246.8	-175.5	3	12	2102.6	-620.8	38.4	127.0	-30.1
29TH	103.75	48.6	-13.3	196	75	247.8	-177.4	3	12	2054.2	-607.7	36.6	120.7	-29.4
30TH	106.75	48.8	-13.4	196	75	248.9	-179.4	3	13	2005.5	-594.4	34.8	114.6	-28.8
31ST	109.75	49.0	-13.6	196	75	249.9	-181.3	4	13	1956.7	-580.9	33.0	108.7	-28.1
32ND	112.75	49.3	-13.7	196	75	251.0	-183.2	4	13	1907.7	-567.3	31.3	102.9	-27.5
33RD	115.75	49.5	-13.9	196	75	252.2	-184.9	4	13	1858.4	-553.6	29.6	97.2	-26.8
34TH	118.75	100.2	-27.9	392	150	255.3	-186.2	4	13	1808.9	-539.7	28.0	91.7	-26.1
35TH	124.75	50.7	-14.1	196	75	258.4	-187.6	4	13	1708.7	-511.8	24.8	81.2	-24.7
36TH	127.75	51.1	-14.1	196	75	260.5	-188.5	4	13	1658.0	-497.7	23.3	76.1	-24.0
37TH	130.75	51.5	-14.2	196	75	262.6	-189.4	4	13	1606.9	-483.6	21.8	71.2	-23.3
38TH	133.75	51.9	-14.3	196	75	264.7	-190.3	4	13	1555.3	-469.4	20.4	66.5	-22.5
39TH	136.75	52.4	-14.3	196	75	266.8	-191.2	4	13	1503.4	-455.1	19.0	61.9	-21.8
40TH	139.75	52.8	-14.4	196	75	268.9	-192.1	4	13	1451.1	-440.8	17.7	57.5	-21.1
41ST	142.75	53.2	-14.5	196	75	271.0	-193.1	4	13	1398.3	-426.4	16.4	53.2	-20.3
42ND	145.75	53.6	-14.6	196	75	273.1	-194.6	4	13	1345.1	-411.9	15.1	49.1	-19.6
43RD	146.75	53.8	-15.0	196	75	274.3	-200.2	4	13	1291.5	-397.3	13.9	45.1	-18.8
44TH	151.76	54.1	-15.4	196	75	275.6	-205.8	4	13	1237.7	-382.3	12.7	41.3	-18.0
45TH	154.76	54.3	-15.8	196	75	276.9	-211.3	4	13	1183.6	-366.9	11.6	37.7	-17.3
46TH	157.76	54.6	-16.3	196	75	278.2	-216.9	4	13	1129.3	-351.1	10.5	34.2	-16.5
47TH	160.76	54.8	-16.7	196	75	279.4	-222.4	4	13	1074.7	-334.8	9.5	30.9	-15.7
48TH	163.76	55.1	-17.1	196	75	280.7	-228.0	4	13	1019.9	-318.1	8.5	27.8	-14.9
49TH	166.76	55.3	-17.4	196	75	282.0	-232.5	4	13	964.8	-301.0	7.6	24.8	-14.1
50TH	169.76	55.7	-17.6	196	75	283.6	-235.4	4	13	909.4	-283.6	6.7	22.0	-13.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 230

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									853.8	-266.0	5.9	19.4	-12.4
52ND	175.76	56.0	-17.9	196	75	285.2	-238.2	4	13	797.8	-248.1	5.1	16.9	-11.6
53RD	178.76	56.3	-18.1	196	75	286.7	-241.1	4	13	741.6	-230.0	4.4	14.6	-10.8
54TH	181.76	56.6	-18.3	196	75	288.3	-243.9	4	13	685.0	-211.7	3.7	12.4	-10.0
55TH	184.76	56.9	-18.5	196	75	289.9	-246.8	4	13	628.1	-193.2	3.1	10.5	-9.1
56TH	187.76	57.2	-18.7	196	75	291.4	-249.6	4	13	570.9	-174.5	2.6	8.7	-8.3
57TH	190.76	57.3	-18.7	196	75	292.2	-249.3	4	13	513.6	-155.8	2.1	7.0	-7.5
58TH	193.76	57.3	-18.5	196	75	292.0	-246.9	4	13	456.3	-137.3	1.6	5.6	-6.6
59TH	196.76	57.3	-18.3	196	75	291.8	-244.6	4	13	399.0	-119.0	1.2	4.3	-5.8
60TH	199.76	57.2	-18.2	196	75	291.6	-242.2	4	13	341.8	-100.8	.9	3.2	-5.0
61ST	202.76	57.2	-18.0	196	75	291.4	-239.8	4	13	284.6	-82.9	.6	2.2	-4.2
62ND	205.76	57.1	-17.8	196	75	291.2	-237.4	4	13	227.4	-65.1	.4	1.5	-3.3
63RD	210.76	95.1	-28.7	327	125	290.9	-230.1	4	13	132.3	-36.3	.2	.6	-2.0
TOP	219.51	132.3	-36.3	572	219	231.2	-166.1	4	14	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 240

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-36.5	0	115	0.0	-317.8	0	0	3351.2	-808.6	77.1	430.2	-49.5
2ND	6.75	0.0	-29.9	0	81	0.0	-369.8	-0	0	3351.2	-772.1	71.8	407.6	-49.5
3RD	11.75	0.0	-29.6	0	77	0.0	-382.0	-0	0	3351.2	-742.1	68.0	390.8	-49.5
4TH	16.75	0.0	-28.5	0	74	0.0	-386.2	-0	0	3351.2	-712.5	64.4	374.1	-49.5
5TH	21.75	115.5	-47.8	491	124	235.3	-384.6	2	5	3351.2	-684.0	60.9	357.3	-49.5
6TH	30.75	77.3	-25.4	327	115	236.3	-220.5	2	5	3235.8	-636.2	54.9	327.7	-48.8
7TH	35.75	77.4	-23.7	327	125	236.7	-189.7	2	6	3158.5	-610.8	51.8	311.7	-48.4
8TH	40.75	46.5	-13.5	196	75	236.8	-180.2	2	6	3081.1	-587.1	48.8	296.1	-47.9
9TH	43.75	46.5	-13.0	196	75	237.0	-173.0	2	6	3034.6	-573.6	47.1	286.9	-47.6
10TH	46.75	46.5	-12.4	196	75	237.1	-165.8	2	7	2988.1	-560.7	45.4	277.9	-47.3
11TH	49.75	46.6	-11.9	196	75	237.2	-158.6	2	7	2941.6	-548.2	43.7	269.0	-46.9
12TH	52.75	46.6	-11.4	196	75	237.4	-151.4	2	7	2895.0	-536.4	42.1	260.2	-46.6
13TH	55.75	46.3	-11.1	196	75	236.0	-148.1	2	8	2848.5	-525.0	40.5	251.6	-46.2
14TH	58.75	45.7	-11.0	196	75	233.0	-146.9	2	8	2802.1	-513.9	38.9	243.1	-45.8
15TH	61.75	45.1	-10.9	196	75	230.0	-145.8	2	9	2756.4	-502.9	37.4	234.8	-45.4
16TH	64.75	44.5	-10.8	196	75	226.9	-144.7	2	10	2711.3	-492.0	35.9	226.6	-45.0
17TH	67.75	43.9	-10.8	196	75	223.9	-143.6	3	10	2666.8	-481.1	34.5	218.5	-44.5
18TH	70.75	43.3	-10.7	196	75	220.8	-142.5	3	11	2622.8	-470.3	33.0	210.6	-44.1
19TH	73.75	42.7	-10.6	196	75	217.8	-141.3	3	12	2579.5	-459.7	31.6	202.8	-43.6
20TH	76.75	42.1	-10.5	196	75	214.8	-140.2	3	13	2536.7	-449.1	30.3	195.1	-43.0
21ST	79.75	41.5	-10.4	196	75	211.7	-139.1	3	13	2494.6	-438.6	28.9	187.6	-42.5
22ND	82.75	41.0	-10.3	196	75	208.7	-138.0	4	14	2453.0	-428.1	27.6	180.2	-41.9
23RD	85.75	40.7	-10.3	196	75	207.2	-137.2	4	15	2412.1	-417.8	26.4	172.9	-41.3
24TH	88.75	41.1	-10.3	196	75	209.3	-136.9	4	15	2371.4	-407.5	25.1	165.7	-40.6
25TH	91.75	41.5	-10.2	196	75	211.5	-136.5	4	15	2330.4	-397.2	23.9	158.6	-40.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 240

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	41.9	-10.2	196	75	213.6	-136.1	4	15	2288.9	-387.0	22.8	151.7	-39.3
27TH	97.75	42.3	-10.2	196	75	215.7	-135.7	4	16	2247.0	-376.8	21.6	144.9	-38.6
28TH	100.75	42.7	-10.1	196	75	217.9	-135.4	4	16	2204.6	-366.6	20.5	138.2	-37.9
29TH	103.75	43.2	-10.1	196	75	220.0	-135.0	4	16	2161.9	-356.5	19.4	131.7	-37.2
30TH	106.75	43.6	-10.1	196	75	222.1	-134.6	4	16	2118.7	-346.3	18.4	125.2	-36.5
31ST	109.75	44.0	-10.1	196	75	224.2	-134.3	4	16	2075.1	-336.3	17.3	119.0	-35.7
32ND	112.75	44.4	-10.0	196	75	226.4	-133.9	4	17	2031.1	-326.2	16.3	112.8	-35.0
33RD	115.75	44.9	-10.0	196	75	228.9	-133.3	4	17	1986.7	-316.2	15.4	106.8	-34.2
34TH	118.75	92.9	-19.8	392	150	236.8	-131.8	4	17	1941.8	-306.2	14.4	100.9	-33.4
35TH	124.75	48.0	-9.8	196	75	244.7	-130.2	3	17	1848.8	-286.4	12.7	89.5	-31.8
36TH	127.75	48.0	-9.8	196	75	244.7	-130.2	3	17	1800.8	-276.6	11.8	84.0	-31.0
37TH	130.75	49.0	-9.7	196	75	249.9	-129.2	3	17	1751.8	-266.9	11.0	78.7	-30.1
38TH	133.75	50.1	-9.6	196	75	255.1	-128.2	3	17	1701.7	-257.3	10.2	73.5	-29.2
39TH	136.75	51.1	-9.5	196	75	260.4	-127.1	3	17	1650.6	-247.8	9.5	68.5	-28.3
39TH	136.75	52.1	-9.5	196	75	265.6	-126.1	3	17	1598.5	-238.4	8.7	63.6	-27.4
40TH	139.75	53.2	-9.4	196	75	270.9	-125.1	3	17	1545.4	-229.0	8.0	58.9	-26.5
41ST	142.75	54.2	-9.3	196	75	276.1	-124.0	3	17	1491.2	-219.7	7.4	54.3	-25.5
42ND	145.75	55.2	-9.3	196	75	281.3	-123.6	3	17	1436.0	-210.4	6.7	50.0	-24.6
43RD	148.75	56.4	-9.5	196	75	287.6	-126.5	3	17	1379.5	-200.9	6.1	45.7	-23.6
44TH	151.76	57.7	-9.7	196	75	293.9	-129.4	3	17	1321.9	-191.2	5.5	41.7	-22.6
45TH	154.76	58.9	-9.9	196	75	300.2	-132.4	3	17	1262.9	-181.3	4.9	37.8	-21.6
46TH	157.76	60.1	-10.1	196	75	306.5	-135.3	3	17	1202.8	-171.2	4.4	34.1	-20.5
47TH	160.76	61.4	-10.4	196	75	312.8	-138.3	3	17	1141.4	-160.8	3.9	30.6	-19.5
48TH	163.76	62.6	-10.6	196	75	319.1	-141.2	3	16	1078.8	-150.2	3.5	27.3	-18.4
49TH	166.76	63.7	-10.7	196	75	324.5	-142.6	3	16	1015.1	-139.5	3.0	24.1	-17.4
50TH	169.76	64.0	-10.6	196	75	326.1	-141.4	3	16					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 240

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	64.3	-10.5	196	75	327.8	-140.3	3	16	951.1	-128.9	2.6	21.2	-16.3
52ND	175.76	64.7	-10.4	196	75	329.5	-139.1	3	16	886.8	-118.4	2.2	18.4	-15.2
53RD	178.76	65.0	-10.3	196	75	331.2	-137.9	3	16	822.1	-108.0	1.9	15.8	-14.1
54TH	181.76	65.3	-10.3	196	75	332.9	-136.7	3	16	757.1	-97.6	1.6	13.5	-13.0
55TH	184.76	65.6	-10.2	196	75	334.5	-135.6	3	16	691.8	-87.4	1.3	11.3	-12.0
56TH	187.76	65.6	-9.8	196	75	334.2	-130.9	2	16	626.2	-77.2	1.1	9.3	-10.9
57TH	190.76	65.0	-9.3	196	75	331.4	-123.9	2	16	560.6	-67.4	.9	7.5	-9.8
58TH	193.76	64.5	-8.8	196	75	328.5	-117.0	2	16	495.6	-58.1	.7	6.0	-8.7
59TH	196.76	63.9	-8.2	196	75	325.6	-110.0	2	17	431.1	-49.4	.5	4.6	-7.6
60TH	199.76	63.3	-7.7	196	75	322.8	-103.1	2	17	367.2	-41.1	.4	3.4	-6.5
61ST	202.76	62.8	-7.2	196	75	319.9	-96.1	2	17	303.9	-33.4	.3	2.4	-5.5
62ND	205.76	103.4	-10.8	327	125	316.1	-86.8	2	17	241.1	-26.2	.2	1.5	-4.4
63RD	210.76	137.7	-15.3	572	219	240.6	-70.1	2	19	137.7	-15.3	.1	.6	-2.6
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
 WIND DIRECTION 250 CONFIGURATION A RAHARDJA CENTER -- CONVENTION HOTEL
 REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									2819.4	-397.4	28.3	391.8	-55.0
2ND	6.75	0.0	-28.8	0	115	0.0	-250.6	0	0	2819.4	-368.6	25.8	372.7	-55.0
3RD	11.75	0.0	-20.8	0	81	0.0	-256.8	-0	0	2819.4	-347.8	24.0	358.6	-55.0
4TH	16.75	0.0	-20.3	0	77	0.0	-262.7	-0	0	2819.4	-327.5	22.3	344.5	-55.0
5TH	21.75	0.0	-19.8	0	74	0.0	-268.1	-0	0	2819.4	-307.7	20.7	330.5	-55.0
6TH	21.75	65.4	-33.5	491	124	133.3	-269.9	2	4	2754.0	-274.1	18.1	305.4	-54.6
7TH	30.75	44.2	-16.7	327	115	135.2	-144.6	2	5	2709.8	-257.5	16.7	291.7	-54.4
7TH	35.75	44.3	-15.8	327	125	135.4	-126.2	2	6	2665.5	-241.7	15.5	278.3	-54.1
8TH	40.75	26.6	-9.3	196	75	135.4	-123.6	2	6	2638.9	-232.5	14.8	270.3	-53.9
9TH	43.75	26.6	-9.1	196	75	135.3	-121.7	2	7	2612.4	-223.3	14.1	262.4	-53.7
10TH	46.75	26.5	-9.0	196	75	135.3	-119.8	2	7	2585.8	-214.4	13.4	254.6	-53.5
11TH	49.75	26.5	-8.8	196	75	135.2	-117.9	3	8	2559.3	-205.5	12.8	246.9	-53.2
12TH	52.75	26.5	-8.7	196	75	135.2	-116.0	3	8	2532.8	-196.8	12.2	239.3	-53.0
13TH	55.75	26.5	-8.5	196	75	135.2	-113.1	3	9	2506.2	-188.3	11.6	231.7	-52.7
14TH	58.75	26.5	-8.2	196	75	135.1	-109.7	3	10	2479.7	-180.1	11.1	224.2	-52.4
15TH	61.75	26.5	-8.0	196	75	135.1	-106.2	3	11	2453.2	-172.2	10.5	216.8	-52.1
16TH	64.75	26.5	-7.7	196	75	135.0	-102.8	4	13	2426.7	-164.5	10.0	209.5	-51.7
17TH	67.75	26.5	-7.4	196	75	135.0	-99.3	4	14	2400.2	-157.0	9.6	202.3	-51.3
18TH	70.75	26.5	-7.2	196	75	134.9	-95.9	4	15	2373.7	-149.8	9.1	195.1	-50.9
19TH	73.75	26.5	-6.9	196	75	134.9	-92.5	4	17	2347.3	-142.9	8.7	188.0	-50.4
20TH	76.75	26.5	-6.7	196	75	134.9	-89.0	5	18	2320.8	-136.2	8.2	181.0	-49.9
21ST	79.75	26.5	-6.4	196	75	134.8	-85.6	5	19	2294.4	-129.8	7.8	174.1	-49.4
22ND	82.75	26.4	-6.2	196	75	134.8	-82.1	5	21	2267.9	-123.6	7.5	167.3	-48.8
23RD	85.75	26.9	-5.9	196	75	136.9	-78.1	5	22	2241.1	-117.8	7.1	160.5	-48.2
24TH	88.75	28.3	-5.5	196	75	144.0	-73.2	4	22	2212.8	-112.3	6.8	153.8	-47.6
25TH	91.75	29.6	-5.1	196	75	151.1	-68.4	4	22					

TABLE 7 SHEAR AND MOMENT DIAGRAMS I
WIND DIRECTION 250

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	31.0	-4.8	196	75	158.2	-63.5	3	22	2183.2	-107.2	6.4	147.2	-46.9
27TH	97.75	32.4	-4.4	196	75	165.3	-58.7	3	22	2152.1	-102.4	6.1	140.7	-46.2
28TH	100.75	33.8	-4.0	196	75	172.4	-53.8	3	22	2119.7	-98.0	5.8	134.3	-45.5
29TH	103.75	35.2	-3.7	196	75	179.5	-49.0	2	22	2085.9	-94.0	5.5	128.0	-44.7
30TH	106.75	36.6	-3.3	196	75	186.6	-44.1	2	22	2050.6	-90.3	5.2	121.8	-44.0
31ST	109.75	38.0	-2.9	196	75	193.7	-39.3	2	22	2014.0	-87.0	5.0	115.7	-43.1
32ND	112.75	39.4	-2.6	196	75	200.8	-34.5	1	22	1976.0	-84.0	4.7	109.7	-42.3
33RD	115.75	40.9	-2.3	196	75	208.2	-30.7	1	22	1936.6	-81.5	4.5	103.9	-41.4
34TH	118.75	87.1	-4.3	392	150	221.8	-28.9	1	22	1895.7	-79.2	4.2	98.1	-40.5
35TH	124.75	46.2	-2.0	196	75	235.4	-27.1	1	22	1808.7	-74.8	3.8	87.0	-38.6
36TH	127.75	48.0	-1.9	196	75	244.5	-25.9	1	21	1762.5	-72.8	3.6	81.6	-37.6
37TH	130.75	49.8	-1.9	196	75	253.6	-24.7	1	21	1714.5	-70.8	3.3	76.4	-36.6
38TH	133.75	51.5	-1.8	196	75	262.7	-23.5	1	21	1664.7	-69.0	3.1	71.4	-35.5
39TH	136.75	53.3	-1.7	196	75	271.7	-22.3	1	21	1613.2	-67.2	2.9	66.4	-34.4
40TH	139.75	55.1	-1.6	196	75	280.8	-21.1	1	21	1559.8	-65.5	2.7	61.7	-33.3
41ST	142.75	56.9	-1.5	196	75	289.9	-19.9	1	21	1504.7	-64.0	2.5	57.1	-32.1
42ND	145.75	58.7	-1.5	196	75	298.9	-19.9	1	21	1447.9	-62.5	2.3	52.7	-30.9
43RD	148.75	59.1	-2.0	196	75	301.3	-26.8	1	21	1389.2	-61.0	2.2	48.4	-29.7
44TH	151.76	59.5	-2.5	196	75	303.4	-33.8	1	21	1330.1	-59.0	2.0	44.3	-28.5
45TH	154.76	60.0	-3.0	196	75	305.6	-40.7	1	21	1270.5	-56.4	1.8	40.4	-27.2
46TH	157.76	60.4	-3.6	196	75	307.7	-47.6	1	22	1210.6	-53.4	1.6	36.7	-25.9
47TH	160.76	60.8	-4.1	196	75	309.9	-54.5	1	22	1150.2	-49.8	1.5	33.2	-24.6
48TH	163.76	61.2	-4.6	196	75	312.0	-61.4	2	22	1089.4	-45.7	1.3	29.8	-23.3
49TH	166.76	61.5	-4.7	196	75	313.4	-62.2	2	22	1028.2	-41.1	1.2	26.6	-21.9
50TH	169.76	61.1	-3.9	196	75	311.6	-52.6	1	22	966.7	-36.5	1.1	23.6	-20.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 250 CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	60.8	-3.2	196	75	309.7	-43.1	1	22	905.5	-32.5	1.0	20.8	-19.2
52ND	175.76	60.4	-2.5	196	75	307.9	-33.6	1	22	844.7	-29.3	.9	18.2	-17.9
53RD	178.76	60.1	-1.8	196	75	306.1	-24.0	1	22	784.3	-26.8	.8	15.7	-16.5
54TH	181.76	59.7	-1.1	196	75	304.3	-14.5	0	23	724.3	-25.0	.7	13.5	-15.2
55TH	184.76	59.3	-.4	196	75	302.4	-4.9	0	23	664.6	-23.9	.7	11.4	-13.8
56TH	187.76	59.0	-.2	196	75	300.6	-2.0	0	23	605.2	-23.5	.6	9.5	-12.5
57TH	190.76	58.6	-.3	196	75	298.8	-3.5	0	23	546.2	-23.4	.5	7.8	-11.1
58TH	193.76	58.3	-.4	196	75	296.9	-5.0	0	22	487.6	-23.1	.4	6.2	-9.8
59TH	196.76	57.9	-.5	196	75	295.0	-6.5	0	22	429.3	-22.7	.4	4.8	-8.5
60TH	199.76	57.5	-.6	196	75	293.2	-8.0	0	22	371.4	-22.2	.3	3.6	-7.2
61ST	202.76	57.2	-.7	196	75	291.3	-9.4	0	22	313.9	-21.6	.2	2.6	-6.0
62ND	205.76	94.5	-2.0	327	125	288.9	-16.1	0	22	256.7	-20.9	.2	1.8	-4.7
63RD	210.76	162.3	-18.9	572	219	283.5	-86.5	2	16	162.3	-18.9	.1	.7	-2.7
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 260

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-25.0	0	115	0.0	-217.4	-1	0	1758.1	-427.3	41.1	239.4	-35.6
2ND	6.75	0.0	-16.8	0	81	0.0	-207.2	-1	0	1758.1	-402.4	38.3	227.5	-35.6
3RD	11.75	0.0	-15.9	0	77	0.0	-205.5	-1	0	1758.1	-385.6	36.3	218.7	-35.6
4TH	16.75	0.0	-15.2	0	74	0.0	-205.3	-1	0	1758.1	-369.7	34.4	209.9	-35.6
5TH	21.75	44.2	-25.7	491	124	90.1	-207.1	3	5	1758.1	-354.5	32.6	201.1	-35.6
6TH	30.75	29.1	-14.7	327	115	88.9	-127.6	3	5	1713.9	-328.8	29.5	185.5	-35.3
7TH	35.75	29.2	-15.4	327	125	89.2	-123.1	3	6	1684.8	-314.1	27.9	177.0	-35.1
8TH	40.75	17.6	-9.6	196	75	89.6	-127.6	3	6	1655.7	-298.7	26.4	168.6	-34.9
9TH	43.75	17.6	-9.8	196	75	89.9	-130.9	3	6	1638.1	-289.1	25.5	163.7	-34.8
10TH	46.75	17.7	-10.1	196	75	90.2	-134.2	4	6	1620.5	-279.3	24.6	158.8	-34.6
11TH	49.75	17.8	-10.3	196	75	90.5	-137.5	4	7	1602.8	-269.3	23.8	154.0	-34.5
12TH	52.75	17.8	-10.6	196	75	90.8	-140.8	4	7	1585.0	-259.0	23.0	149.2	-34.3
13TH	55.75	18.0	-10.2	196	75	91.6	-136.2	4	8	1567.2	-248.4	22.3	144.5	-34.1
14TH	58.75	18.3	-9.5	196	75	93.0	-126.9	5	9	1549.2	-238.2	21.5	139.8	-34.0
15TH	61.75	18.5	-8.8	196	75	94.4	-117.6	5	10	1530.9	-228.7	20.8	135.2	-33.8
16TH	64.75	18.8	-8.1	196	75	95.8	-108.2	5	11	1512.4	-219.9	20.2	130.6	-33.5
17TH	67.75	19.1	-7.4	196	75	97.2	-98.9	5	11	1493.6	-211.8	19.5	126.1	-33.3
18TH	70.75	19.3	-6.7	196	75	98.6	-89.6	5	12	1474.5	-204.3	18.9	121.6	-33.0
19TH	73.75	19.6	-6.0	196	75	100.0	-80.3	5	12	1455.2	-197.6	18.3	117.2	-32.7
20TH	76.75	19.9	-5.3	196	75	101.4	-71.0	5	15	1435.6	-191.6	17.7	112.9	-32.4
21ST	79.75	20.2	-4.6	196	75	102.7	-61.6	4	16	1415.7	-186.3	17.1	108.6	-32.1
22ND	82.75	20.4	-3.9	196	75	104.1	-52.3	4	16	1395.5	-181.7	16.6	104.4	-31.7
23RD	85.75	20.8	-3.4	196	75	105.8	-45.1	3	19	1375.1	-177.7	16.1	100.3	-31.3
24TH	88.75	21.2	-3.0	196	75	108.2	-40.4	3	19	1354.3	-174.4	15.5	96.2	-30.9
25TH	91.75	21.7	-2.7	196	75	110.6	-35.6	2	20	1333.1	-171.3	15.0	92.1	-30.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 260

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									1311.4	-168.7	14.5	88.2	-30.0
27TH	97.75	22.2	-2.3	196	75	113.0	-30.9	2	21	1289.2	-166.4	14.0	84.3	-29.6
28TH	100.75	22.6	-2.0	196	75	115.4	-26.1	2	21	1266.6	-164.4	13.5	80.4	-29.1
29TH	103.75	23.1	-1.6	196	75	117.8	-21.3	1	21	1243.4	-162.8	13.0	76.7	-28.6
30TH	106.75	23.6	-1.2	196	75	120.2	-16.6	1	22	1219.9	-161.6	12.5	73.0	-28.1
31ST	109.75	24.1	-.9	196	75	122.6	-11.8	1	22	1195.8	-160.7	12.0	69.3	-27.5
32ND	112.75	24.5	-.5	196	75	125.0	-7.1	0	22	1171.3	-160.1	11.6	65.8	-27.0
33RD	115.75	25.0	-.2	196	75	127.4	-2.3	0	22	1146.3	-160.0	11.1	62.3	-26.4
34TH	118.75	25.5	-.0	196	75	129.9	-.4	0	23	1120.8	-159.9	10.6	58.9	-25.9
35TH	124.75	53.1	-1.0	392	150	135.4	-7.0	0	23	1067.7	-158.9	9.6	52.4	-24.6
36TH	127.75	27.6	-1.0	196	75	140.8	-13.6	1	23	1040.0	-157.9	9.2	49.2	-24.0
37TH	130.75	28.3	-1.3	196	75	144.4	-17.9	1	23	1011.7	-156.5	8.7	46.1	-23.3
38TH	133.75	29.0	-1.7	196	75	148.0	-22.3	1	23	982.7	-154.9	8.2	43.1	-22.7
39TH	136.75	29.7	-2.0	196	75	151.6	-26.7	2	24	952.9	-152.8	7.8	40.2	-21.9
40TH	139.75	30.5	-2.3	196	75	155.2	-31.1	2	24	922.5	-150.5	7.3	37.4	-21.2
41ST	142.75	31.2	-2.7	196	75	158.8	-35.5	2	24	891.3	-147.9	6.9	34.7	-20.5
42ND	145.75	31.9	-3.0	196	75	162.4	-39.9	2	24	859.4	-144.9	6.4	32.1	-19.7
43RD	148.75	32.6	-3.3	196	75	166.0	-44.5	2	24	826.8	-141.5	6.0	29.5	-18.9
44TH	151.76	33.0	-3.7	196	75	168.4	-50.0	3	24	793.8	-137.8	5.6	27.1	-18.1
45TH	154.76	33.5	-4.2	196	75	170.6	-55.5	3	24	760.3	-133.6	5.2	24.8	-17.3
46TH	157.76	33.9	-4.6	196	75	172.9	-61.1	3	25	726.4	-129.0	4.8	22.5	-16.4
47TH	160.76	34.4	-5.0	196	75	175.2	-66.6	4	25	692.0	-124.0	4.4	20.4	-15.5
48TH	163.76	34.8	-5.4	196	75	177.5	-72.2	4	25	657.2	-118.6	4.0	18.4	-14.7
49TH	166.76	35.3	-5.8	196	75	179.7	-77.7	4	25	621.9	-112.8	3.7	16.5	-13.7
50TH	169.76	35.6	-5.9	196	75	181.5	-78.6	4	25	586.3	-106.9	3.4	14.7	-12.8
		35.6	-5.4	196	75	181.3	-71.9	4	25					

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TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 260 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									550.7	-101.5	3.0	13.0	-11.9
52ND	175.76	35.5	-4.9	196	75	181.0	-65.1	3	25	515.2	-96.6	2.7	11.4	-11.0
53RD	178.76	35.5	-4.4	196	75	180.8	-58.4	3	25	479.7	-92.3	2.5	9.9	-10.1
54TH	181.76	35.4	-3.9	196	75	180.6	-51.6	3	25	444.3	-88.4	2.2	8.5	-9.1
55TH	184.76	35.4	-3.4	196	75	180.4	-44.9	2	26	408.9	-85.0	1.9	7.2	-8.2
56TH	187.76	35.3	-2.9	196	75	180.1	-38.1	2	26	373.6	-82.2	1.7	6.0	-7.3
57TH	190.76	35.2	-3.1	196	75	179.4	-40.8	2	25	338.3	-79.1	1.4	5.0	-6.4
58TH	193.76	34.9	-3.7	196	75	178.1	-49.6	3	25	303.4	-75.4	1.2	4.0	-5.6
58TH	193.76	34.7	-4.4	196	75	176.7	-58.5	3	24	268.7	-71.0	1.0	3.1	-4.7
59TH	196.76	34.4	-5.0	196	75	175.4	-67.4	3	23	234.3	-66.0	.8	2.4	-3.9
60TH	199.76	34.1	-5.7	196	75	174.0	-76.2	4	22	200.2	-60.2	.6	1.7	-3.1
61ST	202.76	33.9	-6.4	196	75	172.7	-85.1	4	22	166.3	-53.9	.4	1.2	-2.4
62ND	205.76	55.9	-12.7	327	125	170.9	-101.6	5	21	110.4	-41.2	.2	.5	-1.1
63RD	210.76	110.4	-41.2	572	219	192.9	-188.3	3	9	0.0	0.0	0.0	0.0	0.0
TOP	219.51													

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 270

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-26.8	0	115	0.0	-233.0	-0	0	404.0	-625.8	70.1	33.3	-1.2
2ND	6.75	0.0	-17.8	0	81	0.0	-219.3	-0	0	404.0	-599.0	65.9	30.6	-1.2
3RD	11.75	0.0	-16.8	0	77	0.0	-216.7	-0	0	404.0	-581.2	63.0	28.6	-1.2
4TH	16.75	0.0	-16.0	0	74	0.0	-216.1	-0	0	404.0	-564.4	60.1	26.5	-1.2
5TH	21.75	35.2	-27.1	491	124	71.7	-218.3	3	4	404.0	-548.5	57.3	24.5	-1.2
6TH	30.75	21.4	-16.6	327	115	65.5	-144.5	3	4	368.8	-521.4	52.5	21.0	-1.0
7TH	35.75	20.0	-18.3	327	125	61.1	-146.2	4	4	347.4	-504.7	50.0	19.3	-.8
8TH	40.75	11.3	-11.6	196	75	57.7	-155.1	4	4	327.4	-486.5	47.5	17.6	-.7
9TH	43.75	10.8	-12.1	196	75	55.1	-161.7	4	3	316.1	-474.8	46.0	16.6	-.6
10TH	46.75	10.3	-12.6	196	75	52.6	-168.4	4	3	305.2	-462.7	44.6	15.7	-.5
11TH	49.75	9.8	-13.1	196	75	50.0	-175.0	4	3	294.9	-450.1	43.3	14.8	-.4
12TH	52.75	9.3	-13.6	196	75	47.4	-181.7	4	2	285.1	-437.0	41.9	13.9	-.4
13TH	55.75	9.1	-13.2	196	75	46.2	-175.6	3	2	275.8	-423.3	40.6	13.1	-.3
14TH	58.75	9.1	-12.1	196	75	46.5	-161.9	3	2	266.7	-410.2	39.4	12.2	-.2
15TH	61.75	9.2	-11.1	196	75	46.9	-148.1	3	2	257.6	-398.1	38.2	11.5	-.2
16TH	64.75	9.3	-10.1	196	75	47.2	-134.4	3	3	248.4	-386.9	37.0	10.7	-.1
17TH	67.75	9.3	-9.0	196	75	47.6	-120.7	2	3	239.2	-376.9	35.9	10.0	-.1
18TH	70.75	9.4	-8.0	196	75	47.9	-106.9	2	3	229.8	-367.8	34.7	9.3	-.0
19TH	73.75	9.5	-7.0	196	75	48.2	-93.2	2	2	220.4	-359.8	33.7	8.6	.0
20TH	76.75	9.5	-6.0	196	75	48.6	-79.5	1	2	211.0	-352.8	32.6	7.9	.1
21ST	79.75	9.6	-4.9	196	75	48.9	-65.8	1	2	201.4	-346.9	31.5	7.3	.1
22ND	82.75	9.7	-3.9	196	75	49.3	-52.0	1	2	191.8	-341.9	30.5	6.7	.1
23RD	85.75	9.7	-3.3	196	75	49.4	-44.5	1	2	182.1	-338.0	29.5	6.2	.1
24TH	88.75	9.6	-3.3	196	75	49.0	-44.0	0	1	172.4	-334.7	28.5	5.6	.2
25TH	91.75	9.5	-3.3	196	75	48.6	-43.5	0	1	162.8	-331.4	27.5	5.1	.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 270

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	9.5	-3.2	196	75	48.2	-43.0	0	1	153.3	-328.1	26.5	4.7	.2
27TH	97.75	9.4	-3.2	196	75	47.8	-42.5	0	1	143.8	-324.9	25.5	4.2	.2
28TH	100.75	9.3	-3.1	196	75	47.4	-42.0	0	0	134.4	-321.7	24.5	3.8	.2
29TH	103.75	9.2	-3.1	196	75	47.0	-41.5	-0	-0	125.1	-318.6	23.6	3.4	.2
30TH	106.75	9.1	-3.1	196	75	46.6	-41.0	-0	-0	115.9	-315.5	22.6	3.1	.2
31ST	109.75	9.1	-3.0	196	75	46.2	-40.5	-0	-1	106.8	-312.4	21.7	2.7	.2
32ND	112.75	9.0	-3.0	196	75	45.8	-40.0	-0	-1	97.7	-309.4	20.7	2.4	.2
33RD	115.75	8.8	-3.1	196	75	45.1	-40.9	-0	-1	88.7	-306.4	19.8	2.1	.2
34TH	118.75	16.0	-7.1	392	150	40.8	-47.4	-1	-2	79.8	-303.3	18.9	1.9	.2
35TH	124.75	7.1	-4.0	196	75	36.4	-53.8	-2	-3	63.9	-296.2	17.1	1.4	.1
36TH	127.75	6.6	-4.4	196	75	33.5	-58.1	-2	-4	56.7	-292.2	16.2	1.3	.1
37TH	130.75	6.0	-4.7	196	75	30.7	-62.3	-3	-4	50.1	-287.8	15.4	1.1	.1
38TH	133.75	5.4	-5.0	196	75	27.8	-66.6	-4	-5	44.1	-283.2	14.5	1.0	.0
39TH	136.75	4.9	-5.3	196	75	24.9	-70.9	-5	-5	38.7	-278.2	13.7	.8	-.0
40TH	139.75	4.3	-5.6	196	75	22.0	-75.2	-6	-5	33.8	-272.8	12.8	.7	-.1
41ST	142.75	3.8	-6.0	196	75	19.1	-79.5	-8	-5	29.5	-267.2	12.0	.6	-.1
42ND	145.75	3.2	-6.3	196	75	16.2	-84.1	-9	-4	25.7	-261.3	11.2	.6	-.2
43RD	148.75	2.9	-6.8	196	75	14.9	-90.9	-7	-3	22.5	-254.9	10.5	.5	-.3
44TH	151.76	2.7	-7.3	196	75	14.9	-97.7	-6	-2	19.6	-248.1	9.7	.4	-.3
45TH	154.76	2.4	-7.8	196	75	12.3	-104.4	-4	-1	16.9	-240.8	9.0	.4	-.4
46TH	157.76	2.2	-8.3	196	75	11.0	-111.2	-3	-1	14.5	-233.0	8.3	.3	-.4
47TH	160.76	1.9	-8.8	196	75	9.7	-118.0	-2	-0	12.4	-224.6	7.6	.3	-.4
48TH	163.76	1.7	-9.4	196	75	8.4	-124.8	-0	-0	10.4	-215.8	6.9	.2	-.4
49TH	166.76	1.4	-9.6	196	75	7.1	-128.0	0	0	8.8	-206.4	6.3	.2	-.4
50TH	169.76	1.2	-9.4	196	75	5.9	-125.3	1	0	7.4	-196.9	5.7	.2	-.4

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 270

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									6.2	-187.5	5.1	.2	-.4
52ND	175.76	.9	-9.2	196	75	4.7	-122.5	1	0	5.3	-178.3	4.5	.2	-.4
53RD	178.76	.7	-9.0	196	75	3.5	-119.8	1	0	4.6	-169.3	4.0	.1	-.4
54TH	181.76	.4	-8.8	196	75	2.3	-117.1	2	0	4.2	-160.5	3.5	.1	-.4
55TH	184.76	.2	-8.6	196	75	1.0	-114.4	2	0	4.0	-151.9	3.1	.1	-.4
56TH	187.76	-.0	-8.4	196	75	-.2	-111.7	3	-0	4.0	-143.6	2.6	.1	-.4
57TH	187.76	-.1	-8.8	196	75	-.7	-117.1	3	-0	4.1	-134.8	2.2	.1	-.3
57TH	190.76	-.0	-9.6	196	75	-.2	-127.9	3	-0	4.2	-125.2	1.8	.1	-.3
58TH	193.76	.0	-10.4	196	75	.2	-138.7	3	0	4.1	-114.8	1.5	.1	-.3
59TH	196.76	.1	-11.2	196	75	.7	-149.4	3	0	4.0	-103.6	1.1	.1	-.2
60TH	199.76	.2	-12.0	196	75	1.1	-160.2	3	0	3.8	-91.6	.8	.0	-.2
61ST	202.76	.3	-12.8	196	75	1.6	-171.0	3	0	3.5	-78.8	.6	.0	-.2
62ND	205.76	.7	-23.5	327	125	2.2	-188.2	3	0	2.8	-55.3	.2	.0	-.1
63RD	210.76	2.8	-55.3	572	219	4.8	-252.7	1	0	0.0	0.0	0.0	0.0	0.0
TOP	219.51													

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 280

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-940.2	-766.8	77.5	-159.5	33.6
2ND	6.75	0.0	-29.3	0	115	0.0	-255.0	0	0	-940.2	-737.5	72.4	-153.2	33.5
3RD	11.75	0.0	-20.4	0	81	0.0	-251.8	0	0	-940.2	-717.1	68.8	-148.5	33.6
4TH	16.75	0.0	-19.3	0	77	0.0	-248.9	0	0	-940.2	-697.8	65.3	-143.8	33.6
5TH	21.75	0.0	-18.2	0	74	0.0	-246.1	0	0	-940.2	-679.7	61.8	-139.1	33.6
6TH	30.75	14.1	-30.5	491	124	28.7	-245.6	5	3	-954.3	-649.2	55.8	-130.5	33.8
7TH	35.75	5.3	-20.1	327	115	16.3	-174.3	3	1	-959.6	-629.1	52.6	-125.8	33.8
8TH	35.75	2.2	-23.3	327	125	6.7	-186.7	1	0	-961.8	-605.8	49.5	-121.0	33.9
8TH	40.75	-1.2	-15.3	196	75	-1.0	-204.1	-1	0	-961.6	-590.5	47.8	-118.1	33.8
9TH	43.75	-1.3	-16.3	196	75	-6.8	-217.2	-2	0	-960.3	-574.2	46.0	-115.2	33.8
10TH	46.75	-2.5	-17.3	196	75	-12.5	-230.3	-3	0	-957.8	-556.9	44.3	-112.3	33.8
11TH	49.75	-3.6	-18.3	196	75	-18.3	-243.4	-3	1	-954.2	-538.7	42.7	-109.4	33.7
12TH	52.75	-4.7	-19.2	196	75	-24.0	-256.5	-4	1	-949.5	-519.4	41.1	-106.6	33.6
13TH	55.75	-5.1	-19.0	196	75	-26.1	-253.7	-5	1	-944.4	-500.4	39.5	-103.8	33.5
14TH	58.75	-4.7	-18.1	196	75	-23.7	-241.3	-7	2	-939.7	-482.3	38.1	-100.9	33.4
15TH	61.75	-4.2	-17.2	196	75	-21.4	-229.0	-9	2	-935.5	-465.1	36.7	-98.1	33.2
16TH	64.75	-3.7	-16.2	196	75	-19.1	-216.6	-11	3	-931.8	-448.9	35.3	-95.3	33.0
17TH	67.75	-3.3	-15.3	196	75	-16.7	-204.3	-14	3	-928.5	-433.6	34.0	-92.5	32.8
18TH	70.75	-2.8	-14.4	196	75	-14.4	-191.9	-17	3	-925.7	-419.2	32.7	-89.7	32.5
19TH	73.75	-2.4	-13.5	196	75	-12.0	-179.6	-20	4	-923.3	-405.7	31.4	-87.0	32.3
20TH	76.75	-1.9	-12.5	196	75	-9.7	-167.2	-24	4	-921.4	-393.2	30.2	-84.2	32.0
21ST	79.75	-1.4	-11.6	196	75	-7.4	-154.8	-29	4	-919.0	-370.9	28.0	-78.7	31.2
22ND	82.75	-1.0	-10.7	196	75	-5.0	-142.5	-35	3	-918.1	-360.9	26.9	-75.9	30.8
23RD	85.75	-0.9	-10.1	196	75	-4.7	-134.3	-40	4	-916.2	-351.1	25.8	-73.2	30.4
24TH	88.75	-1.8	-9.8	196	75	-9.3	-130.7	-42	8					
25TH	91.75	-2.7	-9.5	196	75	-13.9	-127.2	-44	13					

TABLE 7 SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 280 CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	-3.6	-9.3	196	75	-18.5	-123.7	-45	18	-913.5	-341.5	24.7	-70.4	29.9
27TH	97.75	-4.5	-9.0	196	75	-23.1	-120.2	-45	23	-909.9	-332.2	23.7	-67.7	29.5
28TH	100.75	-5.4	-8.7	196	75	-27.7	-116.7	-45	28	-905.3	-323.2	22.8	-65.0	29.0
29TH	103.75	-6.3	-8.5	196	75	-32.3	-113.2	-43	32	-899.9	-314.5	21.8	-62.3	28.4
30TH	106.75	-7.2	-8.2	196	75	-36.9	-109.7	-41	36	-893.6	-306.0	20.9	-59.6	27.8
31ST	109.75	-8.1	-8.0	196	75	-41.5	-106.2	-38	39	-886.3	-297.8	20.0	-56.9	27.2
32ND	112.75	-9.0	-7.7	196	75	-46.1	-102.7	-36	42	-878.2	-289.8	19.1	-54.3	26.6
33RD	115.75	-10.0	-7.4	196	75	-51.0	-98.3	-32	44	-869.1	-282.1	18.2	-51.6	26.0
34TH	118.75	-24.0	-13.4	392	150	-61.2	-89.1	-25	45	-859.1	-274.7	17.4	-49.0	25.3
35TH	124.75	-14.0	-6.0	196	75	-71.5	-79.9	-19	44	-835.1	-261.4	15.8	-44.0	23.9
36TH	127.75	-15.4	-5.5	196	75	-78.3	-73.8	-15	43	-821.1	-255.4	15.0	-41.5	23.2
37TH	130.75	-16.7	-5.1	196	75	-85.2	-67.7	-13	41	-805.7	-249.8	14.2	-39.0	22.4
38TH	133.75	-18.1	-4.6	196	75	-92.0	-61.5	-10	40	-789.0	-244.8	13.5	-36.6	21.7
39TH	136.75	-19.4	-4.2	196	75	-98.8	-55.4	-8	39	-770.9	-240.2	12.8	-34.3	20.9
40TH	139.75	-20.7	-3.7	196	75	-105.7	-49.3	-7	38	-751.5	-236.0	12.1	-32.0	20.1
41ST	142.75	-22.1	-3.2	196	75	-112.5	-43.1	-5	36	-730.8	-232.3	11.4	-29.8	19.3
42ND	145.75	-23.4	-2.9	196	75	-119.3	-39.2	-4	35	-708.7	-229.1	10.7	-27.6	18.5
43RD	148.75	-23.9	-3.6	196	75	-121.9	-47.7	-5	34	-685.3	-226.1	10.0	-25.5	17.7
44TH	151.76	-24.4	-4.2	196	75	-124.3	-56.3	-6	33	-661.4	-222.6	9.3	-23.5	16.8
45TH	154.76	-24.9	-4.9	196	75	-126.8	-64.8	-6	32	-637.0	-218.3	8.6	-21.6	16.0
46TH	157.76	-25.4	-5.5	196	75	-129.3	-73.4	-7	32	-612.1	-213.5	8.0	-19.7	15.1
47TH	160.76	-25.8	-6.1	196	75	-131.7	-81.9	-7	31	-586.7	-208.0	7.4	-17.9	14.3
48TH	163.76	-26.3	-6.8	196	75	-134.2	-90.5	-8	30	-560.9	-201.8	6.8	-16.2	13.5
49TH	166.76	-26.8	-7.2	196	75	-136.8	-96.2	-8	29	-534.6	-195.1	6.2	-14.5	12.6
50TH	169.76	-27.5	-7.3	196	75	-140.0	-97.0	-8	29	-507.7	-187.8	5.6	-13.0	11.8

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
WIND DIRECTION 280 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		EGGEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76											5.0	-11.5	11.0
52ND	175.76	-28.1	-7.3	196	75	-143.2	-97.9	-7	28	-480.3	-180.6	4.5	-10.1	10.1
53RD	178.76	-28.7	-7.4	196	75	-146.4	-98.8	-7	27	-452.2	-173.2	4.0	-8.8	9.3
54TH	181.76	-29.4	-7.5	196	75	-149.6	-99.7	-7	27	-423.5	-165.8	3.5	-7.6	8.4
55TH	184.76	-30.0	-7.5	196	75	-152.8	-100.6	-7	27	-394.1	-158.3	3.0	-6.4	7.6
56TH	187.76	-30.6	-7.6	196	75	-156.0	-101.5	-6	26	-364.1	-150.8	2.6	-5.4	6.7
57TH	190.76	-31.0	-8.3	196	75	-157.8	-110.3	-7	25	-333.5	-143.2	2.2	-4.4	5.9
58TH	193.76	-30.9	-9.3	196	75	-157.7	-124.3	-7	24	-302.5	-134.9	1.8	-3.6	5.1
59TH	196.76	-30.9	-10.4	196	75	-157.6	-138.4	-8	23	-271.6	-125.6	1.4	-2.8	4.3
60TH	199.76	-30.9	-11.4	196	75	-157.5	-152.4	-8	21	-240.7	-115.2	1.1	-2.1	3.6
61ST	202.76	-30.9	-12.5	196	75	-157.4	-166.5	-8	20	-209.8	-103.8	.8	-1.5	2.8
62ND	205.76	-30.9	-13.5	196	75	-157.3	-180.5	-8	19	-178.9	-91.3	.6	-1.0	2.1
63RD	210.76	-51.4	-25.0	327	125	-157.2	-199.9	-8	17	-148.0	-77.8	.2	-.4	1.0
TOP	219.51	-96.6	-52.8	572	219	-168.7	-241.6	-5	8	-96.6	-52.8	0.0	0.0	0.0
										0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 290

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-36.8	0	115	0.0	-320.1	-0	0	-2472.0	-799.0	68.8	-351.1	55.8
2ND	6.75	0.0	-28.1	0	81	0.0	-346.9	0	0	-2472.0	-762.2	63.5	-334.4	55.8
3RD	11.75	0.0	-27.8	0	77	0.0	-359.6	0	0	-2472.0	-734.1	59.8	-322.0	55.8
4TH	16.75	0.0	-27.4	0	74	0.0	-370.2	0	0	-2472.0	-706.3	56.2	-309.7	55.8
5TH	21.75	-33.1	-46.9	491	124	-67.5	-377.6	-4	3	-2472.0	-678.9	52.7	-297.3	55.9
6TH	30.75	-25.8	-26.1	327	115	-78.8	-226.3	-4	4	-2438.9	-632.0	46.8	-275.2	55.5
7TH	35.75	-29.0	-28.0	327	125	-88.7	-223.8	-4	4	-2413.1	-606.0	43.7	-263.1	55.3
8TH	40.75	-19.0	-17.7	196	75	-96.8	-236.5	-4	5	-2384.1	-578.0	40.8	-251.1	55.1
9TH	43.75	-20.2	-18.4	196	75	-102.8	-246.0	-4	5	-2365.1	-560.3	39.1	-243.9	54.9
10TH	46.75	-21.4	-19.2	196	75	-108.9	-255.5	-4	5	-2344.9	-541.9	37.4	-236.9	54.7
11TH	49.75	-22.6	-19.9	196	75	-114.9	-265.0	-4	5	-2323.6	-522.7	35.8	-229.9	54.5
12TH	52.75	-23.7	-20.6	196	75	-121.0	-274.6	-5	5	-2301.0	-502.8	34.3	-222.9	54.3
13TH	55.75	-24.5	-20.4	196	75	-124.6	-272.2	-5	6	-2277.3	-482.2	32.8	-216.1	54.1
14TH	58.75	-24.6	-19.7	196	75	-125.4	-262.7	-6	7	-2252.8	-461.8	31.4	-209.3	53.9
15TH	61.75	-24.8	-19.0	196	75	-126.2	-253.3	-6	8	-2228.2	-442.1	30.0	-202.6	53.6
16TH	64.75	-24.9	-18.3	196	75	-127.0	-243.8	-7	10	-2203.4	-423.2	28.7	-195.9	53.3
17TH	67.75	-25.1	-17.6	196	75	-127.8	-234.4	-8	11	-2178.5	-404.9	27.5	-189.3	52.9
18TH	70.75	-25.2	-16.9	196	75	-128.6	-224.9	-8	12	-2153.4	-387.3	26.3	-182.8	52.5
19TH	73.75	-25.4	-16.1	196	75	-129.4	-215.4	-9	14	-2128.2	-370.4	25.2	-176.4	52.0
20TH	76.75	-25.5	-15.4	196	75	-130.2	-206.0	-9	15	-2102.8	-354.3	24.1	-170.1	51.5
21ST	79.75	-25.7	-14.7	196	75	-130.9	-196.5	-10	17	-2077.3	-338.9	23.0	-163.8	51.0
22ND	82.75	-25.9	-14.0	196	75	-131.7	-187.0	-10	18	-2051.6	-324.1	22.0	-157.6	50.4
23RD	85.75	-26.3	-13.4	196	75	-133.8	-178.6	-10	20	-2025.7	-310.1	21.1	-151.5	49.8
24TH	88.75	-27.3	-12.8	196	75	-138.9	-171.4	-10	21	-1999.5	-296.7	20.2	-145.4	49.2
25TH	91.75	-28.2	-12.3	196	75	-143.9	-164.1	-10	22	-1972.2	-283.9	19.3	-139.5	48.5

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 290

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									-1944.0	-271.6	18.5	-133.6	47.7
27TH	97.75	-29.2	-11.8	196	75	-149.0	-156.9	-9	23	-1914.7	-259.8	17.7	-127.8	47.0
28TH	100.75	-30.2	-11.2	196	75	-154.1	-149.7	-9	24	-1884.5	-248.6	16.9	-122.1	46.1
29TH	103.75	-31.2	-10.7	196	75	-159.1	-142.4	-8	24	-1853.3	-237.9	16.2	-116.5	45.3
30TH	106.75	-32.2	-10.1	196	75	-164.2	-135.2	-8	25	-1821.0	-227.8	15.5	-111.0	44.4
31ST	109.75	-33.2	-9.6	196	75	-169.3	-128.0	-7	26	-1787.8	-218.2	14.8	-105.6	43.5
32ND	112.75	-34.2	-9.1	196	75	-174.4	-120.8	-7	27	-1753.6	-209.1	14.2	-100.3	42.5
33RD	115.75	-35.2	-8.5	196	75	-179.4	-113.5	-7	27	-1718.4	-200.6	13.6	-95.1	41.5
34TH	118.75	-36.2	-7.9	196	75	-184.6	-104.9	-6	28	-1682.2	-192.7	13.0	-90.0	40.4
35TH	124.75	-75.7	-13.1	392	150	-192.9	-87.1	-5	28	-1606.5	-179.7	11.9	-80.1	38.3
36TH	127.75	-39.5	-5.2	196	75	-201.2	-69.3	-4	28	-1567.0	-174.5	11.3	-75.3	37.2
37TH	127.75	-40.6	-4.3	196	75	-206.8	-57.4	-3	27	-1526.4	-170.2	10.8	-70.7	36.0
38TH	130.75	-41.7	-3.4	196	75	-212.3	-45.6	-2	27	-1484.8	-166.8	10.3	-66.2	34.9
39TH	133.75	-42.8	-2.5	196	75	-217.9	-33.7	-2	27	-1442.0	-164.2	9.8	-61.8	33.7
40TH	136.75	-43.8	-1.6	196	75	-223.4	-21.8	-1	27	-1398.2	-162.6	9.3	-57.5	32.6
41ST	139.75	-44.9	-.7	196	75	-229.0	-10.0	-0	27	-1353.2	-161.9	8.8	-53.4	31.4
42ND	142.75	-46.0	.1	196	75	-234.5	1.9	0	27	-1307.2	-162.0	8.3	-49.4	30.1
43RD	145.75	-47.1	.8	196	75	-240.1	10.4	0	26	-1260.1	-162.8	7.9	-45.6	28.9
44TH	148.75	-47.9	-0.6	196	75	-244.1	-.1	-0	26	-1212.2	-162.8	7.4	-41.9	27.6
45TH	151.76	-48.7	-1.8	196	75	-248.1	-10.6	-0	26	-1163.5	-162.0	6.9	-38.3	26.4
46TH	154.76	-49.5	-1.6	196	75	-252.1	-21.1	-1	26	-1114.1	-160.4	6.4	-34.9	25.1
47TH	157.76	-50.3	-2.4	196	75	-256.1	-31.6	-1	26	-1063.8	-158.0	5.9	-31.6	23.8
48TH	160.76	-51.0	-3.2	196	75	-260.1	-42.2	-2	25	-1012.7	-154.9	5.5	-28.5	22.5
49TH	163.76	-51.8	-3.9	196	75	-264.2	-52.7	-2	25	-960.9	-150.9	5.0	-25.5	21.2
50TH	166.76	-52.5	-4.5	196	75	-267.8	-59.8	-2	25	-908.4	-146.4	4.5	-22.7	19.9
	169.76	-53.0	-4.6	196	75	-269.9	-61.1	-2	25					

TABLE 7. SHEAR AND MOMENT DIAGRAM 1
WIND DIRECTION 290

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	Z		
51ST	172.76									-855.4	-141.8	4.1	-20.1	18.5
52ND	175.76	-53.4	-4.7	196	75	-272.1	-62.5	-2	25	-802.0	-137.2	3.7	-17.6	17.7
53RD	178.76	-53.8	-4.8	196	75	-274.2	-63.9	-2	25	-748.2	-132.4	3.3	-15.3	15.9
54TH	181.76	-54.2	-4.9	196	75	-276.4	-65.2	-2	24	-694.0	-127.5	2.9	-13.1	14.5
55TH	184.76	-54.7	-5.0	196	75	-278.5	-66.6	-2	24	-639.3	-122.5	2.5	-11.1	13.2
56TH	187.76	-55.1	-5.1	196	75	-280.7	-67.9	-2	24	-584.2	-117.4	2.2	-9.3	11.8
57TH	190.76	-55.3	-5.2	196	75	-281.8	-67.7	-3	24	-528.9	-111.6	1.8	-7.6	10.5
58TH	193.76	-55.2	-7.0	196	75	-281.5	-92.9	-3	23	-473.7	-104.6	1.5	-6.1	9.2
59TH	196.76	-55.2	-8.1	196	75	-281.2	-108.2	-3	23	-418.5	-96.5	1.2	-4.8	7.9
60TH	199.76	-55.1	-9.3	196	75	-281.0	-123.5	-4	22	-363.4	-87.2	.9	-3.6	6.7
61ST	202.76	-55.1	-10.4	196	75	-280.7	-138.7	-4	22	-308.3	-76.8	.7	-2.6	5.4
62ND	205.76	-55.0	-11.5	196	75	-280.4	-154.0	-4	21	-253.3	-65.3	.5	-1.7	4.2
63RD	210.76	-91.6	-21.7	327	125	-280.1	-173.7	-5	20	-161.7	-43.6	.2	-.7	2.3
TOP	219.51	-161.7	-43.6	572	219	-282.5	-199.4	-4	13	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS I
WIND DIRECTION 300

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-45.2	0	115	0.0	-393.3	-1	0	-3721.1	-1124.2	108.5	-477.5	56.5
2ND	6.75	0.0	-37.3	0	81	0.0	-460.2	-0	0	-3721.1	-1079.0	101.1	-452.4	56.5
3RD	11.75	0.0	-37.6	0	77	0.0	-485.2	-0	0	-3721.1	-1041.8	95.8	-433.6	56.5
4TH	16.75	0.0	-37.1	0	74	0.0	-502.6	-0	0	-3721.1	-1004.2	90.6	-415.2	56.5
5TH	21.75	-124.9	-63.7	491	124	-254.5	-513.2	-3	6	-3721.1	-967.1	85.7	-396.6	56.5
6TH	30.75	-82.0	-34.8	327	115	-250.7	-302.3	-2	5	-3596.2	-903.3	77.3	-363.7	55.5
7TH	35.75	-82.1	-35.8	327	125	-251.0	-286.6	-2	5	-3514.2	-868.5	72.9	-345.9	55.0
8TH	40.75	-49.4	-22.1	196	75	-251.7	-294.5	-2	5	-3432.1	-832.7	68.6	-328.5	54.5
9TH	43.75	-49.5	-22.5	196	75	-252.3	-300.3	-2	5	-3382.7	-810.6	66.2	-318.3	54.2
10TH	46.75	-49.6	-23.0	196	75	-252.8	-306.7	-2	5	-3333.2	-788.1	63.8	-308.2	53.9
11TH	49.75	-49.7	-23.4	196	75	-253.4	-312.0	-2	5	-3283.6	-765.2	61.4	-298.3	53.6
12TH	52.75	-49.8	-23.8	196	75	-253.9	-317.9	-2	5	-3233.9	-741.8	59.2	-288.5	53.3
13TH	55.75	-49.7	-23.4	196	75	-253.3	-311.5	-2	5	-3184.1	-717.9	57.0	-278.9	53.0
14TH	58.75	-49.3	-22.3	196	75	-251.2	-297.9	-3	6	-3134.4	-694.6	54.9	-269.4	52.7
15TH	61.75	-48.9	-21.3	196	75	-249.2	-284.2	-3	7	-3085.1	-672.3	52.8	-260.1	52.4
16TH	64.75	-48.5	-20.3	196	75	-247.1	-270.5	-3	8	-3036.2	-651.0	50.8	-250.9	52.0
17TH	67.75	-48.1	-19.3	196	75	-245.1	-256.8	-4	9	-2987.7	-630.7	48.9	-241.9	51.5
18TH	70.75	-47.7	-18.2	196	75	-243.0	-243.1	-4	10	-2939.6	-611.4	47.0	-233.0	51.0
19TH	73.75	-47.3	-17.2	196	75	-241.0	-229.5	-4	11	-2891.9	-593.2	45.2	-224.2	50.5
20TH	76.75	-46.9	-16.2	196	75	-238.9	-215.8	-4	12	-2844.6	-576.0	43.5	-215.6	49.9
21ST	79.75	-46.5	-15.2	196	75	-236.9	-202.1	-4	13	-2797.7	-559.8	41.8	-207.2	49.2
22ND	82.75	-46.1	-14.1	196	75	-234.8	-188.4	-5	15	-2751.3	-544.7	40.1	-198.8	48.5
23RD	85.75	-46.1	-13.4	196	75	-234.9	-179.3	-5	16	-2705.2	-530.5	38.5	-190.7	47.8
24TH	88.75	-47.1	-13.1	196	75	-239.9	-175.4	-4	16	-2659.1	-517.1	36.9	-182.6	47.0
25TH	91.75	-48.1	-12.9	196	75	-245.0	-171.4	-4	16	-2612.0	-504.0	35.4	-174.7	46.2

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 300

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	-49.1	-12.6	196	75	-250.0	-167.5	-4	16	-2563.9	-491.1	33.9	-166.9	45.4
27TH	97.75	-50.1	-12.3	196	75	-255.1	-163.6	-4	17	-2514.9	-478.5	32.4	-159.3	44.5
28TH	100.75	-51.0	-12.0	196	75	-260.1	-159.6	-4	17	-2464.8	-466.3	31.0	-151.9	43.6
29TH	103.75	-52.0	-11.7	196	75	-265.2	-155.7	-4	17	-2413.8	-454.3	29.6	-144.5	42.7
30TH	106.75	-53.0	-11.4	196	75	-270.2	-151.7	-4	17	-2361.7	-442.7	28.3	-137.4	41.8
31ST	109.75	-54.0	-11.1	196	75	-275.3	-147.8	-4	18	-2308.7	-431.3	27.0	-130.4	40.8
32ND	112.75	-55.0	-10.8	196	75	-280.3	-143.9	-3	18	-2254.7	-420.2	25.7	-123.5	39.8
33RD	115.75	-55.9	-10.4	196	75	-285.1	-139.2	-3	18	-2199.7	-409.4	24.5	-116.8	38.8
34TH	118.75	-113.6	-19.6	392	150	-289.6	-130.4	-3	18	-2143.7	-399.0	23.3	-110.3	37.8
35TH	124.75	-57.7	-9.1	196	75	-294.1	-121.5	-3	18	-2030.1	-379.4	20.9	-97.8	35.7
36TH	127.75	-58.3	-8.7	196	75	-297.1	-115.6	-3	18	-1972.4	-370.3	19.8	-91.8	34.6
37TH	130.75	-58.9	-8.2	196	75	-300.1	-109.7	-3	18	-1914.1	-361.6	18.7	-86.0	33.5
38TH	133.75	-59.5	-7.8	196	75	-303.0	-103.8	-2	18	-1855.2	-353.4	17.6	-80.3	32.5
39TH	136.75	-60.1	-7.3	196	75	-306.0	-97.8	-2	18	-1795.7	-345.6	16.6	-74.8	31.4
40TH	139.75	-60.6	-6.9	196	75	-309.0	-91.9	-2	18	-1735.7	-338.3	15.6	-69.5	30.3
41ST	142.75	-61.2	-6.4	196	75	-312.0	-86.0	-2	18	-1675.0	-331.4	14.5	-64.4	29.2
42ND	145.75	-61.8	-6.2	196	75	-315.0	-82.0	-2	18	-1613.8	-325.0	13.6	-59.5	28.1
43RD	148.75	-62.4	-7.2	196	75	-317.8	-95.7	-2	18	-1552.0	-318.8	12.6	-54.7	26.9
44TH	151.76	-62.9	-8.1	196	75	-320.5	-108.5	-2	18	-1489.6	-311.6	11.7	-50.2	25.8
45TH	154.76	-63.4	-9.1	196	75	-323.3	-121.3	-3	18	-1426.7	-303.4	10.7	-45.8	24.7
46TH	157.76	-64.0	-10.1	196	75	-326.1	-134.2	-3	17	-1363.3	-294.4	9.8	-41.6	23.6
47TH	160.76	-64.5	-11.0	196	75	-328.8	-147.0	-3	17	-1299.3	-284.3	9.0	-37.6	22.4
48TH	163.76	-65.1	-12.0	196	75	-331.6	-159.8	-3	17	-1234.8	-273.3	8.1	-33.8	21.3
49TH	166.76	-65.6	-12.6	196	75	-334.5	-168.3	-3	17	-1169.7	-261.3	7.3	-30.2	20.1
50TH	169.76	-66.3	-12.7	196	75	-338.1	-169.5	-3	17	-1104.0	-248.7	6.6	-26.8	19.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 300 CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-67.0	-12.8	196	75	-341.6	-170.7	-3	17	-1037.7	-236.0	5.8	-23.6	17.8
52ND	175.76	-67.7	-12.9	196	75	-345.2	-171.9	-3	17	-970.7	-223.2	5.1	-20.6	16.6
53RD	178.76	-68.4	-13.0	196	75	-348.7	-173.1	-3	17	-902.9	-210.3	4.5	-17.8	15.5
54TH	181.76	-69.1	-13.1	196	75	-352.3	-174.3	-3	17	-834.5	-197.3	3.9	-15.2	14.3
55TH	184.76	-69.8	-13.2	196	75	-355.9	-175.4	-3	17	-765.4	-184.2	3.3	-12.8	13.1
56TH	187.76	-70.1	-13.7	196	75	-357.4	-182.5	-3	17	-695.5	-171.1	2.8	-10.6	11.9
57TH	190.76	-69.9	-14.5	196	75	-356.2	-193.4	-3	16	-625.4	-157.4	2.3	-8.6	10.7
58TH	193.76	-69.7	-15.3	196	75	-355.0	-204.4	-4	16	-555.5	-142.9	1.8	-6.8	9.5
59TH	196.76	-69.4	-16.1	196	75	-353.9	-215.3	-4	16	-485.8	-127.6	1.4	-5.3	8.3
60TH	199.76	-69.2	-17.0	196	75	-352.7	-226.3	-4	16	-416.4	-111.4	1.1	-3.9	7.1
61ST	202.76	-69.0	-17.8	196	75	-351.5	-237.2	-4	16	-347.2	-94.5	.8	-2.8	5.9
62ND	205.76	-114.5	-30.9	327	125	-350.0	-247.4	-4	16	-278.2	-76.7	.5	-1.8	4.7
63RD	210.76	-163.8	-45.8	572	219	-286.1	-209.4	-4	16	-163.8	-45.8	.2	-.7	2.8
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 310

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-39.4	0	115	0.0	-516.8	-0	0	-4695.2	-1330.5	125.6	-592.0	54.8
2ND	6.75	0.0	-47.9	0	81	0.0	-591.2	-0	0	-4695.2	-1271.1	116.9	-560.3	54.7
3RD	11.75	0.0	-48.3	0	77	0.0	-623.4	-0	0	-4695.2	-1223.2	110.6	-536.8	54.7
4TH	16.75	0.0	-47.9	0	74	0.0	-648.6	-0	0	-4695.2	-1174.9	104.6	-513.4	54.7
5TH	21.75	-165.8	-82.4	491	124	-337.7	-663.7	-3	5	-4695.2	-1127.0	98.9	-489.9	54.7
6TH	30.75	-109.6	-44.4	327	115	-335.2	-385.8	-2	5	-4529.4	-1044.6	89.1	-448.4	53.7
7TH	35.75	-109.8	-43.6	327	125	-335.6	-348.8	-2	5	-4419.8	-1000.2	84.0	-426.0	53.0
8TH	40.75	-66.0	-25.9	196	75	-336.4	-345.0	-2	5	-4310.0	-956.6	79.1	-404.2	52.4
9TH	43.75	-66.1	-25.7	196	75	-337.0	-342.2	-2	5	-4244.0	-930.7	76.3	-391.3	52.0
10TH	46.75	-66.2	-25.4	196	75	-337.6	-339.4	-2	5	-4177.9	-905.1	73.5	-378.7	51.7
11TH	49.75	-66.4	-25.2	196	75	-338.1	-336.5	-2	5	-4111.7	-879.6	70.8	-366.3	51.3
12TH	52.75	-66.5	-25.0	196	75	-338.7	-333.7	-2	5	-4045.3	-854.4	68.2	-354.0	50.9
13TH	55.75	-66.3	-24.3	196	75	-337.9	-324.0	-2	6	-3978.8	-829.4	65.7	-342.0	50.5
14TH	58.75	-65.8	-23.3	196	75	-335.5	-310.3	-2	6	-3912.5	-805.1	63.3	-330.2	50.1
15TH	61.75	-65.4	-22.2	196	75	-333.0	-296.6	-2	7	-3846.7	-781.8	60.9	-318.5	49.6
16TH	64.75	-64.9	-21.2	196	75	-330.6	-282.9	-2	7	-3781.3	-759.6	58.6	-307.1	49.1
17TH	67.75	-64.4	-20.2	196	75	-328.2	-269.2	-3	8	-3716.5	-738.4	56.3	-295.8	48.6
18TH	70.75	-63.9	-19.2	196	75	-325.7	-255.5	-3	8	-3652.1	-718.2	54.1	-284.8	48.0
19TH	73.75	-63.4	-18.1	196	75	-323.3	-241.8	-3	9	-3588.1	-699.0	52.0	-273.9	47.4
20TH	76.75	-63.0	-17.1	196	75	-320.9	-228.1	-3	9	-3524.7	-680.9	49.9	-263.2	46.8
21ST	79.75	-62.5	-16.1	196	75	-318.4	-214.4	-3	10	-3461.7	-663.8	47.9	-252.8	46.1
22ND	82.75	-62.0	-15.0	196	75	-316.0	-200.7	-3	11	-3399.3	-647.7	45.9	-242.5	45.3
23RD	85.75	-61.9	-14.4	196	75	-315.3	-192.4	-3	12	-3337.2	-632.7	44.0	-232.4	44.6
24TH	88.75	-62.6	-14.3	196	75	-318.9	-190.3	-3	12	-3275.4	-618.3	42.2	-222.5	43.8
25TH	91.75	-63.3	-14.1	196	75	-322.4	-188.3	-3	13	-3212.8	-604.0	40.3	-212.7	43.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 310

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (KN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75											38.5	-203.2	42.1
27TH	97.75	-64.0	-14.0	196	75	-326.0	-186.2	-3	13	-3149.5	-589.9	36.8	-193.8	41.3
28TH	100.75	-64.7	-13.8	196	75	-329.6	-184.2	-3	13	-3085.5	-575.9	35.1	-184.7	40.4
29TH	103.75	-65.4	-13.7	196	75	-333.1	-182.1	-3	13	-3020.9	-562.1	33.4	-175.7	39.5
30TH	106.75	-66.1	-13.5	196	75	-336.7	-180.1	-3	13	-2955.5	-548.5	31.8	-166.9	38.6
31ST	109.75	-66.8	-13.3	196	75	-340.3	-178.0	-3	13	-2889.4	-535.0	30.2	-158.4	37.7
32ND	112.75	-67.5	-13.2	196	75	-343.8	-176.0	-3	13	-2822.7	-521.6	28.7	-150.0	36.7
33RD	115.75	-68.2	-13.0	196	75	-347.4	-173.9	-3	13	-2755.2	-508.4	27.1	-141.8	35.8
34TH	118.75	-68.9	-12.9	196	75	-351.0	-172.0	-3	14	-2687.0	-495.4	25.7	-133.9	34.8
35TH	124.75	-139.8	-25.4	392	150	-356.3	-169.6	-2	13	-2618.1	-482.5	22.9	-118.6	32.9
36TH	127.75	-71.0	-12.5	196	75	-361.6	-167.1	-2	13	-2478.3	-457.1	21.5	-111.3	31.9
37TH	130.75	-71.7	-12.4	196	75	-365.1	-165.5	-2	13	-2407.4	-444.5	20.2	-104.1	30.9
38TH	133.75	-72.3	-12.3	196	75	-368.7	-163.8	-2	13	-2335.7	-432.1	18.9	-97.2	29.9
39TH	136.75	-73.0	-12.2	196	75	-372.2	-162.2	-2	13	-2263.4	-419.9	17.7	-90.6	29.0
40TH	139.75	-73.7	-12.0	196	75	-375.8	-160.6	-2	13	-2190.3	-407.7	16.5	-84.1	28.0
41ST	142.75	-74.4	-11.9	196	75	-379.3	-158.9	-2	13	-2116.6	-395.7	15.3	-77.9	27.0
42ND	145.75	-75.1	-11.8	196	75	-382.9	-157.3	-2	13	-2042.1	-383.7	14.2	-71.8	26.0
43RD	148.75	-75.8	-11.8	196	75	-386.4	-156.9	-2	13	-1967.0	-372.0	13.1	-66.1	25.0
44TH	151.76	-76.7	-12.3	196	75	-390.8	-163.5	-2	13	-1891.2	-360.2	12.0	-60.5	24.0
45TH	154.76	-77.6	-12.8	196	75	-395.2	-170.1	-2	13	-1814.5	-347.9	11.0	-55.2	23.0
46TH	157.76	-78.4	-13.2	196	75	-399.6	-176.7	-2	13	-1736.9	-335.2	10.0	-50.1	21.9
47TH	160.76	-79.3	-13.7	196	75	-404.0	-183.3	-2	13	-1658.5	-321.9	9.0	-45.2	20.9
48TH	163.76	-80.1	-14.2	196	75	-408.4	-189.9	-2	13	-1579.2	-308.2	8.1	-40.6	19.8
49TH	166.76	-81.0	-14.7	196	75	-412.8	-196.6	-2	13	-1499.1	-294.0	7.3	-36.2	18.8
50TH	169.76	-81.8	-15.1	196	75	-416.9	-201.6	-2	13	-1418.1	-279.2	6.5	-32.1	17.7
		-82.3	-15.3	196	75	-419.6	-204.0	-2	13	-1336.3	-264.1			

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

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MH-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-82.9	-15.5	196	75	-422.3	-206.4	-2	13	-1253.9	-248.8	5.7	-28.2	16.6
52ND	175.76	-83.4	-15.7	196	75	-425.0	-206.9	-2	13	-1171.1	-233.3	5.0	-24.6	15.5
53RD	178.76	-83.9	-15.8	196	75	-427.7	-211.3	-2	13	-1087.7	-217.7	4.3	-21.2	14.4
54TH	181.76	-84.5	-16.0	196	75	-430.4	-213.7	-2	13	-1003.7	-201.8	3.7	-18.0	13.3
55TH	184.76	-85.0	-16.2	196	75	-433.1	-216.1	-2	13	-919.3	-185.8	3.1	-15.2	12.2
56TH	187.76	-85.2	-16.5	196	75	-434.2	-219.5	-2	13	-834.3	-169.6	2.6	-12.5	11.1
57TH	190.76	-85.0	-16.8	196	75	-433.1	-223.5	-2	13	-749.1	-153.2	2.1	-10.2	10.0
58TH	193.76	-84.8	-17.1	196	75	-432.0	-227.5	-3	13	-664.1	-136.4	1.6	-8.0	8.9
59TH	196.76	-84.6	-17.4	196	75	-430.9	-231.5	-3	13	-579.3	-119.3	1.3	-6.2	7.8
60TH	199.76	-84.3	-17.7	196	75	-429.8	-235.5	-3	13	-494.8	-102.0	.9	-4.6	6.7
61ST	202.76	-84.1	-18.0	196	75	-428.7	-239.5	-3	12	-410.4	-84.3	.6	-3.2	5.6
62ND	205.76	-139.7	-29.9	327	125	-427.2	-239.1	-3	13	-326.3	-66.4	.4	-2.1	4.5
63RD	210.76	-186.6	-36.5	572	219	-326.1	-166.9	-3	14	-186.6	-36.5	.2	-.8	2.6
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 320

CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00	0.0	-74.0	0	115	0.0	-644.0	-0	0	-5375.5	-1446.0	133.0	-655.9	48.2
2ND	6.75	0.0	-59.2	0	81	0.0	-730.7	-0	0	-5375.5	-1372.0	123.5	-619.6	48.2
3RD	11.75	0.0	-60.1	0	77	0.0	-776.1	-0	0	-5375.5	-1312.8	116.7	-592.8	48.2
4TH	16.75	0.0	-60.2	0	74	0.0	-814.9	-0	0	-5375.5	-1252.7	110.3	-565.9	48.2
5TH	21.75	-209.0	-104.2	491	124	-425.9	-839.1	-2	5	-5375.5	-1192.5	104.2	-539.0	48.2
6TH	30.75	-139.2	-51.2	327	115	-425.7	-444.6	-2	5	-5166.5	-1088.3	94.0	-491.6	46.9
7TH	35.75	-140.2	-47.2	327	125	-428.8	-377.4	-2	5	-5027.2	-1037.1	88.6	-466.1	46.1
8TH	40.75	-84.7	-27.0	196	75	-431.8	-359.9	-2	5	-4887.0	-990.0	83.6	-441.3	45.4
9TH	43.75	-85.2	-26.0	196	75	-434.0	-346.7	-2	5	-4802.3	-963.0	80.6	-426.8	44.9
10TH	46.75	-85.6	-25.0	196	75	-436.3	-333.6	-1	5	-4717.1	-937.0	77.8	-412.5	44.4
11TH	49.75	-86.1	-24.0	196	75	-438.6	-320.5	-1	5	-4631.5	-912.0	75.0	-398.5	44.0
12TH	52.75	-86.5	-23.0	196	75	-440.9	-307.3	-1	5	-4545.4	-888.0	72.3	-384.7	43.5
13TH	55.75	-86.2	-22.2	196	75	-439.4	-293.6	-1	5	-4458.9	-864.9	69.7	-371.2	43.0
14TH	58.75	-85.0	-21.3	196	75	-433.4	-284.7	-1	6	-4372.7	-842.8	67.1	-357.9	42.5
15TH	61.75	-83.9	-20.5	196	75	-427.5	-273.8	-1	6	-4287.7	-821.4	64.6	-345.0	42.0
16TH	64.75	-82.7	-19.7	196	75	-421.5	-263.0	-2	6	-4203.8	-800.9	62.2	-332.2	41.5
17TH	67.75	-81.5	-18.9	196	75	-415.5	-252.1	-2	7	-4121.1	-781.2	59.8	-319.7	40.9
18TH	70.75	-80.4	-18.1	196	75	-409.6	-241.2	-2	7	-4039.5	-762.3	57.5	-307.5	40.3
19TH	73.75	-79.2	-17.3	196	75	-403.6	-230.3	-2	8	-3959.1	-744.2	55.3	-295.5	39.7
20TH	76.75	-78.0	-16.5	196	75	-397.7	-219.5	-2	8	-3879.9	-726.9	53.0	-283.7	39.1
21ST	79.75	-76.9	-15.6	196	75	-391.7	-208.6	-2	8	-3801.9	-710.5	50.9	-272.2	38.4
22ND	82.75	-75.7	-14.8	196	75	-385.8	-197.7	-2	9	-3725.0	-694.8	48.8	-260.9	37.7
23RD	85.75	-74.9	-14.4	196	75	-381.9	-191.9	-2	9	-3649.3	-680.0	46.7	-249.9	37.0
24TH	88.75	-75.2	-14.4	196	75	-383.0	-191.9	-2	9	-3574.4	-665.6	44.7	-239.0	36.3
25TH	91.75	-75.4	-14.4	196	75	-384.0	-191.9	-2	9	-3499.2	-651.2	42.7	-228.4	35.6

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 320

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75	-75.6	-14.4	196	75	-385.1	-191.9	-2	10	-3423.9	-636.9	40.8	-218.0	34.8
27TH	97.75	-75.8	-14.4	196	75	-386.2	-191.8	-2	10	-3348.3	-622.5	38.9	-207.9	34.1
28TH	100.75	-76.0	-14.4	196	75	-387.3	-191.8	-2	10	-3272.5	-608.1	37.1	-197.9	33.3
29TH	103.75	-76.2	-14.4	196	75	-388.3	-191.8	-2	10	-3196.5	-593.7	35.3	-188.2	32.6
30TH	106.75	-76.4	-14.4	196	75	-389.4	-191.8	-2	10	-3120.3	-579.3	33.5	-178.7	31.8
31ST	109.75	-76.6	-14.4	196	75	-390.5	-191.8	-2	10	-3043.9	-565.0	31.8	-169.5	31.0
32ND	112.75	-76.8	-14.4	196	75	-391.5	-191.8	-2	10	-2967.3	-550.6	30.1	-160.5	30.2
33RD	115.75	-77.1	-14.4	196	75	-392.8	-191.9	-2	10	-2890.5	-536.2	28.5	-151.7	29.5
34TH	118.75	-155.6	-28.9	392	150	-396.5	-192.8	-2	10	-2813.4	-521.8	26.9	-143.1	28.7
35TH	124.75	-78.5	-14.5	196	75	-400.3	-193.7	-2	10	-2657.8	-492.9	23.8	-126.7	27.0
36TH	127.75	-79.0	-14.6	196	75	-402.8	-194.3	-2	10	-2579.2	-478.4	22.4	-118.9	26.2
37TH	130.75	-79.5	-14.6	196	75	-405.3	-194.9	-2	10	-2500.2	-463.8	21.0	-111.3	25.4
38TH	133.75	-80.0	-14.7	196	75	-407.8	-195.4	-2	10	-2420.7	-449.2	19.6	-103.9	24.6
39TH	136.75	-80.5	-14.7	196	75	-410.2	-196.0	-2	10	-2340.6	-434.6	18.3	-96.7	23.7
40TH	139.75	-81.0	-14.7	196	75	-412.7	-196.6	-2	10	-2260.1	-419.9	17.0	-89.8	22.9
41ST	142.75	-81.5	-14.8	196	75	-415.2	-197.2	-2	10	-2179.1	-405.1	15.8	-83.2	22.1
42ND	145.75	-82.0	-14.8	196	75	-417.7	-197.9	-2	10	-2097.7	-390.4	14.6	-76.8	21.2
43RD	148.75	-82.6	-14.9	196	75	-420.9	-199.0	-2	10	-2015.7	-375.5	13.4	-70.6	20.4
44TH	151.76	-83.2	-15.0	196	75	-424.3	-200.2	-2	10	-1933.1	-360.6	12.3	-64.7	19.5
45TH	154.76	-83.9	-15.1	196	75	-427.4	-201.4	-2	10	-1849.8	-345.6	11.3	-59.0	18.7
46TH	157.76	-84.5	-15.2	196	75	-430.7	-202.5	-2	10	-1766.0	-330.5	10.2	-53.6	17.8
47TH	160.76	-85.2	-15.3	196	75	-433.9	-203.7	-2	10	-1681.5	-315.3	9.3	-48.4	17.0
48TH	163.76	-85.8	-15.4	196	75	-437.2	-204.8	-2	10	-1596.3	-300.0	8.3	-43.5	16.1
49TH	166.76	-86.4	-15.5	196	75	-440.4	-206.5	-2	10	-1510.5	-284.7	7.5	-38.8	15.2
50TH	169.76	-87.0	-15.7	196	75	-443.4	-208.9	-2	10	-1424.1	-269.2	6.6	-34.4	14.3

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 320

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-87.6	-15.8	196	75	-446.4	-211.3	-2	10	-1337.1	-253.5	5.9	-30.3	13.5
52ND	175.76	-88.2	-16.0	196	75	-449.4	-213.7	-2	10	-1249.5	-237.7	5.1	-26.4	12.6
53RD	178.76	-88.8	-16.2	196	75	-452.4	-216.1	-2	10	-1161.3	-221.7	4.4	-22.8	11.7
54TH	181.76	-89.4	-16.4	196	75	-455.5	-218.5	-2	10	-1072.5	-205.5	3.8	-19.4	10.8
55TH	184.76	-90.0	-16.6	196	75	-458.5	-220.9	-2	10	-983.1	-189.1	3.2	-16.3	9.9
56TH	187.76	-90.2	-16.7	196	75	-459.8	-223.0	-2	10	-893.2	-172.5	2.7	-13.5	9.0
57TH	190.76	-90.1	-16.9	196	75	-458.9	-224.8	-2	10	-802.9	-155.8	2.2	-11.0	8.1
58TH	193.76	-89.9	-17.0	196	75	-458.0	-226.7	-2	10	-712.9	-139.0	1.7	-8.7	7.2
59TH	196.76	-89.7	-17.1	196	75	-457.1	-228.5	-2	10	-623.0	-122.0	1.3	-6.7	6.3
60TH	199.76	-89.5	-17.3	196	75	-456.2	-230.4	-2	10	-533.3	-104.9	1.0	-5.0	5.4
61ST	202.76	-89.4	-17.4	196	75	-455.3	-232.2	-2	10	-443.8	-87.6	.7	-3.5	4.5
62ND	205.76	-148.5	-28.9	327	125	-454.1	-231.4	-2	10	-354.4	-70.2	.5	-2.3	3.6
63RD	210.76	-205.9	-41.3	572	219	-359.8	-188.7	-2	10	-205.9	-41.3	.2	-.9	2.1
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 330

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-6253.3	-1098.9	85.5	-769.0	42.4
2ND	6.75	0.0	-81.6	0	115	0.0	-710.0	-1	0	-6253.3	-1617.3	78.4	-726.8	42.3
3RD	11.75	0.0	-65.2	0	81	0.0	-805.6	-1	0	-6253.3	-952.1	73.5	-695.5	42.3
4TH	16.75	0.0	-65.5	0	77	0.0	-845.4	-0	0	-6253.3	-886.6	68.9	-664.3	42.3
5TH	21.75	0.0	-64.7	0	74	0.0	-875.2	-0	0	-6253.3	-821.9	64.6	-633.0	42.3
6TH	30.75	-235.2	-110.9	491	124	-479.1	-893.0	-2	5	-6018.1	-711.0	57.7	-577.8	40.8
7TH	35.75	-157.6	-48.3	327	115	-481.9	-419.8	-1	5	-5860.5	-662.7	54.3	-548.1	40.0
8TH	40.75	-158.6	-40.5	327	125	-485.0	-323.9	-1	5	-5701.9	-622.2	51.0	-519.2	39.2
9TH	43.75	-95.7	-21.8	196	75	-487.7	-290.5	-1	5	-5606.2	-600.5	49.2	-502.2	38.8
10TH	46.75	-96.1	-19.9	196	75	-489.7	-265.4	-1	5	-5510.1	-580.6	47.4	-485.6	38.3
11TH	49.75	-96.5	-18.0	196	75	-491.7	-240.3	-1	5	-5413.6	-562.6	45.7	-469.2	37.8
12TH	52.75	-96.9	-16.1	196	75	-493.7	-215.2	-1	4	-5316.7	-546.4	44.1	-453.1	37.4
13TH	55.75	-97.3	-14.3	196	75	-495.8	-190.1	-1	4	-5219.4	-532.2	42.4	-437.3	37.0
14TH	58.75	-97.1	-13.3	196	75	-494.7	-177.3	-1	4	-5122.4	-518.9	40.9	-421.8	36.5
15TH	58.75	-96.1	-12.9	196	75	-489.9	-171.8	-1	5	-5026.2	-506.0	39.3	-406.5	36.1
16TH	61.75	-95.2	-12.5	196	75	-485.0	-166.3	-1	5	-4931.0	-493.5	37.8	-391.6	35.6
17TH	64.75	-94.2	-12.1	196	75	-480.2	-160.8	-1	5	-4836.8	-481.5	36.4	-376.9	35.1
18TH	67.75	-93.3	-11.6	196	75	-475.4	-155.3	-1	5	-4743.5	-469.8	34.9	-362.6	34.6
19TH	70.75	-92.4	-11.2	196	75	-470.6	-149.8	-1	6	-4651.2	-458.6	33.5	-348.5	34.0
20TH	73.75	-91.4	-10.8	196	75	-465.8	-144.3	-1	6	-4559.7	-447.8	32.2	-334.7	33.5
21ST	76.75	-90.5	-10.4	196	75	-461.0	-138.8	-1	6	-4469.3	-437.4	30.9	-321.1	32.9
22ND	79.75	-89.5	-10.0	196	75	-456.2	-133.3	-1	7	-4379.7	-427.4	29.6	-307.8	32.3
23RD	82.75	-88.6	-9.6	196	75	-451.4	-127.8	-1	7	-4291.2	-417.8	28.3	-294.8	31.7
24TH	85.75	-88.0	-9.3	196	75	-448.4	-124.6	-1	7	-4203.2	-408.5	27.0	-282.1	31.1
25TH	88.75	-88.2	-9.3	196	75	-449.6	-124.1	-1	7	-4114.9	-399.2	25.8	-269.6	30.4
	91.75	-88.5	-9.3	196	75	-450.9	-123.5	-1	7					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 330

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75			196	75	-452.1	-123.0	-1	7	-4026.5	-389.9	24.7	-257.4	29.8
27TH	97.75	-88.7	-9.2	196	75	-453.3	-122.4	-1	7	-3937.7	-380.7	23.5	-245.5	29.1
28TH	100.75	-89.0	-9.2	196	75	-454.5	-121.9	-1	7	-3848.8	-371.5	22.4	-233.8	28.5
29TH	103.75	-89.2	-9.1	196	75	-455.7	-121.3	-1	7	-3759.6	-362.4	21.3	-222.4	27.8
30TH	106.75	-89.4	-9.1	196	75	-456.9	-120.8	-1	7	-3670.2	-353.3	20.2	-211.2	27.2
31ST	109.75	-89.7	-9.1	196	75	-458.2	-120.2	-1	7	-3580.5	-344.2	19.1	-200.3	26.5
32ND	112.75	-89.9	-9.0	196	75	-459.4	-119.7	-1	8	-3490.6	-335.2	18.1	-189.7	25.8
33RD	115.75	-90.1	-9.0	196	75	-459.4	-119.7	-1	8	-3400.5	-326.2	17.1	-179.4	25.1
34TH	118.75	-90.4	-9.0	196	75	-460.8	-119.5	-1	8	-3310.0	-317.3	16.2	-169.3	24.4
35TH	124.75	-182.3	-18.1	392	150	-464.5	-120.8	-1	8	-3127.8	-299.2	14.3	-150.0	23.1
36TH	127.75	-91.9	-9.1	196	75	-468.2	-122.0	-1	7	-3035.9	-290.0	13.4	-140.8	22.4
37TH	127.75	-92.4	-9.2	196	75	-470.7	-122.9	-1	7	-2943.5	-280.8	12.6	-131.8	21.7
38TH	130.75	-92.8	-9.3	196	75	-473.1	-123.7	-1	7	-2850.7	-271.5	11.8	-123.1	21.0
39TH	133.75	-93.3	-9.3	196	75	-475.6	-124.5	-1	7	-2757.4	-262.2	11.0	-114.7	20.3
40TH	136.75	-93.8	-9.4	196	75	-478.1	-125.4	-1	7	-2663.5	-252.8	10.2	-106.6	19.6
41ST	139.75	-94.3	-9.5	196	75	-480.5	-126.2	-1	7	-2569.2	-243.3	9.4	-98.7	18.9
42ND	142.75	-94.8	-9.5	196	75	-483.0	-127.0	-1	7	-2474.5	-233.8	8.7	-91.1	18.1
43RD	145.75	-95.3	-9.6	196	75	-485.5	-127.5	-1	7	-2379.2	-224.3	8.0	-83.9	17.4
44TH	148.75	-96.1	-9.4	196	75	-489.5	-125.7	-1	7	-2283.1	-214.8	7.4	-76.9	16.7
45TH	151.76	-96.9	-9.3	196	75	-493.6	-123.9	-1	7	-2186.2	-205.5	6.7	-70.2	16.0
46TH	154.76	-97.7	-9.2	196	75	-497.7	-122.1	-1	7	-2088.6	-196.4	6.1	-63.8	15.3
47TH	157.76	-98.5	-9.0	196	75	-501.8	-120.3	-1	7	-1990.1	-187.4	5.6	-57.6	14.6
48TH	160.76	-99.3	-8.9	196	75	-505.9	-118.5	-1	7	-1890.8	-178.5	5.0	-51.8	13.9
49TH	163.76	-100.1	-8.8	196	75	-510.0	-116.8	-1	7	-1790.8	-169.7	4.5	-46.3	13.1
50TH	166.76	-100.9	-8.7	196	75	-514.1	-116.6	-1	7	-1689.9	-161.0	4.0	-41.1	12.4
	169.76	-101.7	-8.9	196	75	-518.3	-119.3	-1	7					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
 WIND DIRECTION 330 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ. M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76									-1588.2	-152.0	3.5	-36.2	11.7
52ND	175.76	-102.5	-9.1	196	75	-522.5	-121.9	-1	7	-1485.7	-142.9	3.1	-31.5	11.0
53RD	178.76	-103.4	-9.3	196	75	-526.7	-124.6	-1	7	-1382.3	-133.6	2.7	-27.2	10.2
54TH	181.76	-104.2	-9.5	196	75	-530.9	-127.2	-1	7	-1278.1	-124.0	2.3	-23.3	9.5
55TH	184.76	-105.0	-9.7	196	75	-535.2	-129.8	-1	7	-1173.1	-114.3	1.9	-19.6	8.7
56TH	187.76	-105.8	-9.9	196	75	-539.4	-132.5	-1	7	-1067.3	-104.4	1.6	-16.2	7.9
57TH	190.76	-106.4	-10.1	196	75	-542.2	-134.4	-1	7	-960.9	-94.3	1.3	-13.2	7.2
58TH	193.76	-106.6	-10.2	196	75	-543.1	-135.9	-1	7	-854.3	-84.1	1.0	-10.4	6.4
59TH	196.76	-106.8	-10.3	196	75	-544.0	-137.3	-1	7	-747.5	-73.8	.8	-8.0	5.6
60TH	199.76	-106.9	-10.4	196	75	-545.0	-138.8	-1	7	-640.6	-63.4	.6	-6.0	4.8
61ST	202.76	-107.1	-10.5	196	75	-545.9	-140.2	-1	7	-533.5	-52.9	.4	-4.2	4.0
62ND	205.76	-107.3	-10.6	196	75	-546.8	-141.7	-1	7	-426.2	-42.3	.3	-2.8	3.3
63RD	210.76	-179.2	-17.7	327	125	-548.1	-141.4	-1	7	-246.9	-24.6	.1	-1.1	1.9
TOP	219.51	-246.9	-24.6	572	219	-431.4	-112.6	-1	8	0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 340

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-6691.3	-1062.2	84.5	-819.5	33.5
2ND	6.75	0.0	-84.6	0	115	0.0	-736.6	-1	0	-6691.3	-977.5	77.6	-774.3	33.4
3RD	11.75	0.0	-68.0	0	81	0.0	-839.5	-1	0	-6691.3	-909.6	72.9	-740.8	33.3
4TH	16.75	0.0	-68.8	0	77	0.0	-888.5	-1	0	-6691.3	-840.8	68.6	-707.4	33.3
5TH	21.75	0.0	-68.6	0	74	0.0	-927.9	-0	0	-6691.3	-772.2	64.5	-673.9	33.3
6TH	30.75	-256.7	-118.5	491	124	-523.0	-954.8	-2	5	-6434.6	-653.6	58.1	-614.9	31.8
7TH	35.75	-171.5	-45.4	327	115	-524.5	-394.5	-1	5	-6263.0	-608.2	54.9	-583.1	31.0
8TH	40.75	-171.7	-34.8	327	125	-525.1	-278.4	-1	4	-6091.3	-573.4	52.0	-552.2	30.3
9TH	43.75	-103.1	-17.7	196	75	-525.5	-236.4	-1	4	-5988.2	-555.7	50.3	-534.1	29.8
10TH	46.75	-103.2	-15.4	196	75	-525.8	-204.9	-1	4	-5885.0	-540.4	48.7	-516.3	29.5
11TH	49.75	-103.2	-13.0	196	75	-526.1	-173.4	-0	3	-5781.8	-527.4	47.1	-498.8	29.1
12TH	49.75	-103.3	-10.6	196	75	-526.4	-142.0	-0	3	-5678.5	-516.7	45.5	-481.6	28.8
13TH	52.75	-103.3	-8.3	196	75	-526.7	-110.5	-0	3	-5575.1	-508.4	43.9	-464.7	28.5
14TH	55.75	-103.0	-7.5	196	75	-525.1	-99.6	-0	3	-5472.1	-501.0	42.4	-448.2	28.1
15TH	58.75	-102.3	-7.6	196	75	-521.3	-101.2	-0	3	-5369.8	-493.4	40.9	-431.9	27.8
16TH	61.75	-101.6	-7.7	196	75	-517.5	-102.7	-0	3	-5268.2	-485.7	39.5	-415.9	27.5
17TH	64.75	-100.8	-7.8	196	75	-513.7	-104.2	-0	4	-5167.4	-477.9	38.0	-400.3	27.1
18TH	67.75	-100.1	-7.9	196	75	-510.0	-105.8	-0	4	-5067.4	-469.9	36.6	-384.9	26.7
19TH	70.75	-99.3	-8.0	196	75	-506.2	-107.3	-0	4	-4968.0	-461.9	35.2	-369.9	26.3
20TH	73.75	-98.6	-8.2	196	75	-502.4	-108.8	-0	4	-4869.4	-453.7	33.8	-355.1	25.8
21ST	76.75	-97.8	-8.3	196	75	-498.6	-110.4	-0	5	-4771.6	-445.5	32.5	-340.6	25.4
22ND	79.75	-97.1	-8.4	196	75	-494.9	-111.9	-0	5	-4674.5	-437.1	31.2	-326.5	24.9
23RD	82.75	-96.4	-8.5	196	75	-491.1	-113.4	-0	5	-4578.1	-428.6	29.9	-312.6	24.4
24TH	85.75	-95.9	-8.6	196	75	-488.7	-114.2	-0	6	-4482.2	-420.0	28.6	-299.0	23.8
25TH	88.75	-96.1	-8.6	196	75	-489.7	-114.1	-0	6	-4386.1	-411.4	27.3	-285.7	23.3
25TH	91.75	-96.3	-8.5	196	75	-490.7	-114.0	-0	5					

TABLE 7 SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 675 PA

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									-4289.8	-402.9	26.1	-272.7	22.8
27TH	97.75	-96.5	-8.5	196	75	-491.7	-114.0	-0	5	-4193.3	-394.4	24.9	-260.0	22.2
28TH	100.75	-96.7	-8.5	196	75	-492.8	-113.9	-0	5	-4096.6	-385.8	23.8	-247.5	21.7
29TH	103.75	-96.9	-8.5	196	75	-493.8	-113.8	-0	5	-3999.7	-377.3	22.6	-235.4	21.2
30TH	106.75	-97.1	-8.5	196	75	-494.8	-113.7	-0	5	-3902.6	-368.8	21.5	-223.5	20.6
31ST	109.75	-97.3	-8.5	196	75	-495.8	-113.6	-0	5	-3805.3	-360.2	20.4	-212.0	20.1
32ND	112.75	-97.5	-8.5	196	75	-496.8	-113.6	-0	5	-3707.9	-351.7	19.3	-200.7	19.5
33RD	115.75	-97.7	-8.5	196	75	-497.8	-113.5	-0	5	-3610.2	-343.2	18.3	-189.7	19.0
34TH	118.75	-97.9	-8.5	196	75	-498.9	-113.9	-0	5	-3512.3	-334.7	17.3	-179.0	18.5
35TH	124.75	-196.8	-17.4	392	150	-501.5	-116.0	-0	5	-3315.4	-317.3	15.3	-158.6	17.4
36TH	127.75	-98.9	-8.8	196	75	-504.2	-118.0	-0	5	-3216.5	-308.4	14.4	-148.8	16.9
37TH	130.75	-99.3	-9.0	196	75	-505.9	-119.4	-0	5	-3117.2	-299.5	13.5	-139.3	16.3
38TH	133.75	-99.6	-9.1	196	75	-507.6	-120.8	-0	5	-3017.6	-290.4	12.6	-130.1	15.8
39TH	136.75	-100.0	-9.2	196	75	-509.4	-122.2	-0	5	-2917.6	-281.3	11.7	-121.1	15.3
40TH	139.75	-100.3	-9.3	196	75	-511.1	-123.6	-0	5	-2817.3	-272.0	10.9	-112.5	14.7
41ST	142.75	-100.6	-9.4	196	75	-512.9	-125.0	-0	5	-2716.7	-262.6	10.1	-104.2	14.2
42ND	145.75	-101.0	-9.5	196	75	-514.6	-126.4	-0	5	-2615.7	-253.2	9.3	-96.2	13.7
43RD	148.75	-101.3	-9.6	196	75	-516.4	-127.7	-0	5	-2514.4	-243.6	8.6	-88.5	13.1
44TH	151.76	-102.1	-9.6	196	75	-520.2	-128.6	-0	5	-2412.3	-233.9	7.9	-81.2	12.6
45TH	154.76	-102.8	-9.7	196	75	-524.1	-129.4	-0	5	-2309.5	-224.2	7.2	-74.1	12.1
46TH	157.76	-103.6	-9.8	196	75	-527.9	-130.3	-0	5	-2205.9	-214.5	6.5	-67.3	11.5
47TH	160.76	-104.4	-9.8	196	75	-531.8	-131.1	-0	5	-2101.5	-204.7	5.9	-60.8	11.0
48TH	163.76	-105.1	-9.9	196	75	-535.7	-131.9	-0	5	-1996.4	-194.8	5.3	-54.7	10.4
49TH	166.76	-105.9	-10.0	196	75	-539.6	-132.8	-0	5	-1890.5	-184.8	4.7	-48.9	9.9
50TH	169.76	-106.7	-10.1	196	75	-543.5	-134.5	-0	5	-1783.8	-174.7	4.2	-43.4	9.4
		-107.5	-10.3	196	75	-547.9	-137.8	-0	5					

TABLE 7. SHEAR AND MOMENT DIAGRAMS : RAHARDJA CENTER -- CONVENTION HOTEL
WIND DIRECTION 340 CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76	-108.4	-10.6	196	75	-552.3	-141.1	-0	5	-1676.3	-164.4	3.7	-38.2	8.8
52ND	175.76	-109.2	-10.8	196	75	-556.7	-144.3	-0	5	-1567.9	-153.8	3.2	-33.3	8.3
53RD	178.76	-110.1	-11.1	196	75	-561.1	-147.6	-0	5	-1458.7	-143.0	2.7	-28.8	7.7
54TH	181.76	-111.0	-11.3	196	75	-565.4	-150.8	-1	5	-1348.6	-131.9	2.3	-24.5	7.2
55TH	184.76	-111.8	-11.6	196	75	-569.8	-154.1	-1	5	-1237.6	-120.6	2.0	-20.7	6.6
56TH	187.76	-112.3	-11.6	196	75	-572.5	-154.6	-1	5	-1125.8	-109.1	1.6	-17.1	6.1
57TH	190.76	-112.4	-11.5	196	75	-573.0	-153.2	-1	5	-1013.5	-97.5	1.3	-13.9	5.5
58TH	193.76	-112.5	-11.4	196	75	-573.5	-151.9	-1	5	-901.0	-86.0	1.0	-11.0	5.0
59TH	196.76	-112.6	-11.3	196	75	-574.0	-150.5	-1	5	-788.5	-74.6	.8	-8.5	4.4
60TH	199.76	-112.7	-11.2	196	75	-574.5	-149.2	-1	5	-675.8	-63.3	.6	-6.3	3.8
61ST	202.76	-112.8	-11.1	196	75	-575.1	-147.8	-1	5	-563.1	-52.1	.4	-4.4	3.2
62ND	205.76	-188.3	-17.9	327	125	-575.7	-143.6	-1	5	-450.2	-41.1	.3	-2.9	2.6
63RD	210.76	-262.0	-23.1	572	219	-457.7	-105.7	-1	6	-262.0	-23.1	.1	-1.1	1.6
TOP	219.51									0.0	0.0	0.0	0.0	0.0

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 350 CONFIGURATION A

RAHARDJA CENTER -- CONVENTION HOTEL
REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
1ST	0.00									-6854.5	-929.4	66.9	-827.1	21.9
2ND	6.75	0.0	-78.3	0	115	0.0	-681.2	-1	0	-6854.5	-851.1	60.9	-780.8	21.8
3RD	11.75	0.0	-65.8	0	81	0.0	-812.8	-1	0	-6854.5	-785.3	56.8	-746.6	21.8
4TH	16.75	0.0	-69.3	0	77	0.0	-894.6	-0	0	-6854.5	-716.0	53.1	-712.3	21.7
5TH	21.75	0.0	-71.5	0	74	0.0	-967.5	0	0	-6854.5	-644.5	49.7	-678.0	21.7
6TH	21.75	-274.7	-126.9	491	124	-559.6	-1021.8	-2	4	-6579.8	-517.6	44.4	-617.6	20.4
6TH	30.75	-183.7	-41.9	327	115	-561.7	-363.5	-1	4	-6396.1	-475.8	42.0	-585.1	19.6
7TH	35.75	-183.9	-29.5	327	125	-562.2	-236.1	-1	4	-6212.3	-446.3	39.7	-553.6	18.9
8TH	40.75	-110.3	-14.5	196	75	-562.3	-192.9	-0	3	-6101.9	-431.8	38.3	-535.1	18.6
9TH	43.75	-110.4	-12.0	196	75	-562.4	-160.5	-0	3	-5991.6	-419.8	37.1	-517.0	18.3
10TH	46.75	-110.4	-9.6	196	75	-562.5	-128.1	-0	3	-5881.2	-410.2	35.8	-499.2	18.0
11TH	49.75	-110.4	-7.2	196	75	-562.6	-95.7	-0	2	-5770.8	-403.0	34.6	-481.7	17.7
12TH	52.75	-110.4	-4.7	196	75	-562.8	-63.4	-0	2	-5660.3	-398.3	33.4	-464.6	17.5
13TH	55.75	-110.0	-4.1	196	75	-560.6	-54.7	-0	2	-5550.3	-394.2	32.2	-447.7	17.3
14TH	58.75	-109.0	-4.5	196	75	-555.7	-60.1	-0	2	-5441.3	-389.7	31.0	-431.3	17.1
15TH	61.75	-108.1	-4.9	196	75	-550.8	-65.6	-0	2	-5333.2	-384.7	29.9	-415.1	16.9
16TH	64.75	-107.1	-5.3	196	75	-546.0	-71.0	-0	2	-5226.1	-379.4	28.7	-399.3	16.7
17TH	67.75	-106.2	-5.7	196	75	-541.1	-76.5	-0	2	-5119.9	-373.7	27.6	-383.7	16.4
18TH	70.75	-105.2	-6.1	196	75	-536.2	-82.0	-0	3	-5014.6	-367.5	26.5	-368.5	16.1
19TH	73.75	-104.3	-6.6	196	75	-531.3	-87.4	-0	3	-4910.4	-361.0	25.4	-353.6	15.8
20TH	76.75	-103.3	-7.0	196	75	-526.5	-92.9	-0	3	-4807.1	-354.0	24.3	-339.1	15.5
21ST	79.75	-102.4	-7.4	196	75	-521.6	-98.3	-0	3	-4704.7	-346.7	23.3	-324.8	15.2
22ND	82.75	-101.4	-7.8	196	75	-516.7	-103.8	-0	3	-4603.3	-338.9	22.2	-310.8	14.9
23RD	85.75	-100.7	-8.0	196	75	-513.1	-106.5	-0	4	-4502.6	-330.9	21.2	-297.2	14.5
24TH	88.75	-100.6	-8.0	196	75	-512.6	-106.1	-0	4	-4402.0	-322.9	20.2	-283.8	14.1
25TH	91.75	-100.5	-7.9	196	75	-512.1	-105.7	-0	4					

TABLE 7. SHEAR AND MOMENT DIAGRAMS 1
WIND DIRECTION 350

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
26TH	94.75									-4301.5	-315.0	19.3	-270.8	13.8
27TH	97.75	-100.4	-7.9	196	75	-511.6	-105.3	-0	4	-4201.1	-307.1	18.4	-258.0	13.4
28TH	100.75	-100.3	-7.9	196	75	-511.1	-105.0	-0	4	-4100.8	-299.2	17.4	-245.6	13.1
29TH	103.75	-100.2	-7.8	196	75	-510.6	-104.6	-0	4	-4000.6	-291.4	16.6	-233.4	12.7
30TH	106.75	-100.1	-7.8	196	75	-510.1	-104.2	-0	4	-3900.5	-283.6	15.7	-221.6	12.4
31ST	109.75	-100.0	-7.8	196	75	-509.6	-103.8	-0	4	-3800.5	-275.8	14.9	-210.0	12.0
32ND	112.75	-99.9	-7.7	196	75	-509.1	-103.4	-0	3	-3700.6	-268.1	14.0	-198.7	11.7
33RD	115.75	-99.8	-7.7	196	75	-508.6	-103.0	-0	3	-3600.8	-260.3	13.3	-187.8	11.3
34TH	118.75	-99.8	-7.7	196	75	-508.4	-102.7	-0	3	-3501.0	-252.6	12.5	-177.1	11.0
35TH	124.75	-200.3	-15.4	392	150	-510.4	-102.4	-0	3	-3300.7	-237.3	11.0	-156.7	10.3
36TH	127.75	-100.6	-7.7	196	75	-512.5	-102.1	-0	3	-3200.1	-229.6	10.3	-147.0	9.9
37TH	130.75	-100.8	-7.6	196	75	-513.9	-102.0	-0	3	-3099.3	-222.0	9.6	-137.5	9.6
38TH	133.75	-101.1	-7.6	196	75	-515.3	-101.8	-0	3	-2998.2	-214.4	9.0	-128.4	9.2
39TH	136.75	-101.4	-7.6	196	75	-516.6	-101.6	-0	3	-2896.8	-206.7	8.3	-119.5	8.9
40TH	139.75	-101.7	-7.6	196	75	-518.0	-101.4	-0	3	-2795.2	-199.1	7.7	-111.0	8.6
41ST	142.75	-101.9	-7.6	196	75	-519.4	-101.3	-0	3	-2693.2	-191.6	7.2	-102.8	8.2
42ND	145.75	-102.2	-7.6	196	75	-520.8	-101.1	-0	3	-2591.0	-184.0	6.6	-94.8	7.9
43RD	148.75	-102.5	-7.6	196	75	-522.2	-101.0	-0	3	-2488.6	-176.4	6.1	-87.2	7.6
44TH	151.76	-103.1	-7.6	196	75	-525.2	-101.1	-0	3	-2385.5	-168.8	5.5	-79.9	7.3
45TH	154.76	-103.7	-7.6	196	75	-528.2	-101.3	-0	3	-2281.9	-161.2	5.0	-72.9	7.0
46TH	157.76	-104.3	-7.6	196	75	-531.3	-101.4	-0	3	-2177.6	-153.6	4.6	-66.2	6.6
47TH	160.76	-104.9	-7.6	196	75	-534.3	-101.6	-0	3	-2072.7	-146.0	4.1	-59.8	6.3
48TH	163.76	-105.5	-7.6	196	75	-537.4	-101.7	-0	3	-1967.3	-138.4	3.7	-53.8	6.0
49TH	166.76	-106.1	-7.6	196	75	-540.4	-101.9	-0	3	-1861.2	-130.7	3.3	-48.0	5.7
50TH	169.76	-106.6	-7.7	196	75	-543.3	-102.4	-0	3	-1754.6	-123.1	2.9	-42.6	5.4
		-107.1	-7.8	196	75	-545.6	-103.5	-0	3					

TABLE 7. SHEAR AND MOMENT DIAGRAMS :
WIND DIRECTION 350

RAHARDJA CENTER -- CONVENTION HOTEL
CONFIGURATION A REFERENCE PRESSURE 675 PA

GUST FACTOR 1.00

FLOOR	HEIGHT (M)	FORCE (KN)		AREA (SQ M)		PRESSURE (PA)		ECCEN (M)		SHEAR (KN)		MOMENT (MN-M)		
		X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	Z
51ST	172.76			196	75	-547.9	-104.5	-0	3	-1647.5	-115.3	2.5	-37.5	5.1
52ND	175.76	-107.5	-7.8	196	75	-550.2	-105.6	-0	3	-1540.0	-107.5	2.2	-32.7	4.8
53RD	178.76	-108.0	-7.9	196	75	-552.5	-106.7	-0	3	-1432.0	-99.6	1.9	-28.3	4.5
54TH	181.76	-108.4	-8.0	196	75	-552.5	-106.7	-0	3	-1323.6	-91.6	1.6	-24.1	4.2
55TH	184.76	-108.9	-8.1	196	75	-554.8	-107.7	-0	3	-1214.7	-83.5	1.4	-20.3	3.9
56TH	187.76	-109.3	-8.2	196	75	-557.1	-108.8	-0	3	-1105.4	-75.3	1.1	-16.9	3.6
57TH	189.76	-109.7	-8.1	196	75	-558.9	-108.2	-0	3	-995.7	-67.2	.9	-13.7	3.2
58TH	190.76	-109.9	-8.0	196	75	-559.9	-106.4	-0	3	-885.9	-59.2	.7	-10.9	2.9
59TH	193.76	-110.1	-7.8	196	75	-560.9	-104.7	-0	3	-775.8	-51.4	.5	-8.4	2.6
60TH	196.76	-110.3	-7.7	196	75	-561.9	-102.9	-0	3	-665.6	-43.7	.4	-6.2	2.2
61ST	199.76	-110.5	-7.6	196	75	-562.9	-101.2	-0	3	-555.1	-36.1	.3	-4.4	1.9
62ND	202.76	-110.6	-7.5	196	75	-563.9	-99.5	-0	3	-444.5	-28.6	.2	-2.9	1.5
63RD	205.76	-184.8	-12.0	327	125	-565.2	-96.0	-0	3	-259.6	-16.6	.1	-1.1	1.0
TOP	210.76	-259.6	-16.6	572	219	-453.6	-76.1	-0	4	0.0	0.0	0.0	0.0	0.0
	219.51													

TABLE 7 BASE SHEAR AND MOMENT SUMMARY : RAHARDJA CENTER -- CONVENTION HOTEL
 CONFIGURATION A REFERENCE PRESSURE 675 GUST FACTOR 1.00

AZIMUTH	SHEAR (KN)		MOMENT (KN-M)			ECCEN (M)	
	X	Y	X	Y	Z	X	Y
0	-6646	-6655	37	79	0	-	1
10	-6534	-1925	-19	78	9	-	1
20	-6393	166	-47	78	3	-	1
30	-6009	339	-55	77	4	-	1
40	-5316	736	-98	72	8	-	1
50	-4762	972	-116	53	5	-	1
60	-4306	802	-74	53	3	-	1
70	-3360	743	-53	42	6	-	1
80	-1610	901	-81	19	9	-	1
90	836	980	-95	9	2	-	1
100	2850	907	-82	9	2	-	1
110	4164	831	-80	5	5	-	1
120	5390	739	-88	6	5	-	1
130	5526	866	-109	6	5	-	1
140	6334	406	-79	7	9	-	1
150	7050	221	-64	5	2	-	1
160	7078	57	-51	3	2	-	1
170	6530	-137	-38	0	6	-	1
180	5518	-321	-	1	7	-	1
190	5420	-863	71	6	7	-	1
200	5519	-925	77	6	9	-	1
210	5121	-843	73	6	9	-	1
220	4110	-825	85	5	6	-	1
230	3456	-1104	122	4	7	1	1
240	3351	-809	77	4	0	1	1
250	2819	-397	28	3	0	1	1
260	1758	-427	41	3	9	1	1
270	404	-626	70	1	3	1	1
280	-940	-767	77	5	5	-	1
290	-2472	-799	68	5	5	-	1
300	-3721	-1124	108	4	7	-	1
310	-4695	-1330	125	5	2	-	1
320	-5375	-1446	133	5	9	-	1
330	-6253	-1099	85	7	6	-	1
340	-6691	-1062	84	1	9	-	1
350	-6855	-929	66	5	7	-	1

Table 8. Generalized Dynamic Properties of Prototype Structures

Symbol	Property	Units	Convention Hotel			Business-Tourist Hotel		
			x	y	z	x	y	z
m^*	Generalized Mass	$\text{kg}\cdot\text{m}^2$ or $\text{N}\cdot\text{m}\cdot\text{s}^2$	1.603E12	1.601E12	1.001E10	7.81E11	7.81E11	6.27E9
k^*	Generalized Stiffness	$\text{N}\cdot\text{m}$	1.205E12	1.480E12	1.726E10	1.125E12	7.89E11	1.968E10
ζ	Generalized Damping	C/C_{cr} ratio	0.01	0.01	0.01	0.01	0.01	0.01
f_o	Natural Frequency	Hz	0.138	0.153	0.209	0.191	0.160	0.282

- NOTES:
1. Generalized mass is approximately equal to moment of inertia, I
 2. Generalized stiffness is equal to the rotational stiffness k_θ of the approximating straight-line mode shape
 3. Damping values indicated are those most commonly assumed; some results are presented with additional values
 4. $f_o = \frac{1}{2\pi} \sqrt{\frac{k^*}{m^*}}$

Table 9. Dynamic Scaling of Aeroelastic Models

Symbol	Property	Value	
		Convention Hotel	Business-Tourist Hotel
$(f_o)_m$	Natural frequency of model (Hz)	24.6 (x)	33.6 (x)
		27.2 (y)	27.8 (y)
		37.1 (z)	47.9 (z)
$(f_o)_p$	Natural frequency of prototype (Hz)	.138 (x)	.191 (x)
		.153 (y)	.160 (y)
		.209 (z)	.282 (z)
λ_f	Frequency scale	178.3 (x)	175.9 (x)
		177.8 (y)	173.8 (y)
		177.5 (z)	169.9 (z)
		178 (mean)	173 (mean)
λ_D	Length scale	.0025	.0025
λ_U	Velocity scale	.4446	.4325
ρ_m	Air density in wind tunnel (kg/m^3)	1.055	1.055
ρ_p	Air density at sea level (kg/m^3)	1.255	1.255
λ_ρ	Density scale	.861	.861
λ	Moment scale	2.66E-9	2.52E-9
λ_I^*	Mass moment of inertia scale	8.41E-14*	8.41E-14*
λ_k^*	Rotational stiffness scale	2.66E-9*	2.52E-9*

*Ideal values which would result in scale model deflections in agreement with λ_D . They are not necessarily matched in practice.