

WIND-TUNNEL STUDY OF
GARDEN GROVE COMMUNITY CHURCH,
GARDEN GROVE, CALIFORNIA

by

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

for

Johnson/Burgee Architects
375 Park Avenue
New York, New York 10022

Fluid Mechanics and Wind Engineering Program
Fluid Dynamics and Diffusion Laboratory
Department of Civil Engineering
Colorado State University
Fort Collins, Colorado 80523
April 1977

* Associate Professor

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

CER76-77JAP-JEC55

217^{432BOS}
11/00 XL 524
38-000-00 GBC

TA7

C6

CER-76/77-55

ACKNOWLEDGMENTS

Support for this investigation was provided by Johnson/Burgee Architects. Construction of the building model was accomplished by personnel of the Engineering Research Center Machine Shop. Mr. James A. Garrison made the motion pictures of flow visualization. Mr. Max Petago and Mr. John Durgin supervised pressure-data acquisition and reduction. Velocity measurements were made by Mr. Herbert Woo.

LIBRARIES
COLORADO STATE UNIVERSITY
Fort Collins, Colorado 80523

TABLE OF CONTENTS

<u>Chapter</u>		<u>Page</u>
	ACKNOWLEDGEMENTS	ii
	LIST OF TABLES	iv
	LIST OF FIGURES	v
	LIST OF SYMBOLS	vii
1	INTRODUCTION	1
	1.1 General	1
	1.2 The Building Site	2
2	EXPERIMENTAL CONFIGURATION	4
	2.1 Wind Tunnel	4
	2.2 Model	4
3	INSTRUMENTATION AND DATA ACQUISITION	6
	3.1 Flow Visualization	6
	3.2 Pressures	6
	3.3 Velocity	8
4	RESULTS	11
	4.1 Flow Visualization	11
	4.2 Velocity	11
	4.3 Pressures	15
5	CONCLUSIONS	20
	REFERENCES	21
	TABLES	22
	FIGURES.	39
	APPENDIX A	71

LIST OF TABLES

<u>Table</u>		<u>Page</u>
1	MOTION PICTURE SCENE GUIDE	22
2	MEAN AND FLUCTUATING VELOCITIES AROUND THE BASE OF THE BUILDING	23
3	ORANGE COUNTY AIRPORT WIND DATA.	28
4	PROBABILITY DISTRIBUTIONS FOR WINDS.	29
5	SUMMARY OF WIND EFFECTS ON PEOPLE.	34
6	LARGEST AND SMALLEST PRESSURE COEFFICIENTS FOR EACH TAP	35

LIST OF FIGURES

<u>Figure</u>		<u>Page</u>
1	Building Surroundings	39
2	Industrial Aerodynamics Wind Tunnel	40
3	Pressure Tap Locations	41
4	Completed Model	47
5	Data Sampling Time Verification	48
6	Velocity and Turbulence Profiles Approaching the Model	49
7	Mean Velocity and Turbulence Intensity at Sites 1 and 2	50
8	Mean Velocity and Turbulence Intensity at Sites 3 and 4	51
9	Mean Velocity and Turbulence Intensity at Sites 5 and 6	52
10	Mean Velocity and Turbulence Intensity at Sites 7 and 8	53
11	Mean Velocity and Turbulence Intensity at Sites 9 and 10	54
12	Mean Velocity and Turbulence Intensity at Sites 11 and 12	55
13	Mean Velocity and Turbulence Intensity at Sites 13 and 14	56
14	Mean Velocity and Turbulence Intensity at Sites 15 and 16	57
15	Mean Velocity and Turbulence Intensity at Sites 17 and 18	58
16	Mean Velocity and Turbulence Intensity at Sites 19 and 20	59
17	Wind Velocity Probabilities for Sites 1-5	60
18	Wind Velocity Probabilities for Sites 6-10	61
19	Wind Velocity Probabilities for Sites 11-15	62
20	Wind Velocity Probabilities for Sites 16-20	63

LIST OF FIGURES (Continued)

<u>Figure</u>		<u>Page</u>
21	Peak-Pressure Contours on the Building	64
22	Pressure Correlation for Taps 1104 and 6904.	68
23	Spectrum Tap Locations	69
24	Spectral Distributions of Pressure Fluctuations.	70

LIST OF SYMBOLS

<u>Symbol</u>	<u>Definition</u>
U	Local mean velocity
D	Characteristic dimension (building height, width, etc.)
ν	Kinematic viscosity of approach flow
$\frac{UD}{\nu}$	Reynolds number
E	Mean voltage
A	Constant
B	Constant
n	Constant
U_{rms}	Root-mean-square of fluctuating velocity
E_{rms}	Root-mean-square of fluctuating voltage
U_{∞}	Reference mean velocity outside the boundary layer
x, y	Horizontal coordinates
z	Height above surface
δ	Height of boundary layer
T_u	Turbulence intensity $\frac{U_{rms}}{U_{\infty}}$ or $\frac{U_{rms}}{U}$
$C_{p_{mean}}$	Mean pressure coefficient $\frac{(p-p_{\infty})_{mean}}{\frac{1}{2} \rho U_{\infty}^2}$
$C_{p_{rms}}$	Root-mean-square pressure coefficient $\frac{((p-p_{\infty})_{mean})_{rms}}{\frac{1}{2} \rho U_{\infty}^2}$
$C_{p_{max}}$	Peak maximum pressure coefficient $\frac{(p-p_{\infty})_{max}}{\frac{1}{2} \rho U_{\infty}^2}$
$C_{p_{min}}$	Peak minimum pressure coefficient $\frac{(p-p_{\infty})_{min}}{\frac{1}{2} \rho U_{\infty}^2}$
ρ	Density of approach flow

LIST OF SYMBOLS (Continued)

<u>Symbol</u>	<u>Definition</u>
$()_{\min}$	Minimum value during data record
$()_{\max}$	Maximum value during data record
p	Fluctuating pressure at a pressure tap on the structure
p_{∞}	Static pressure in the wind tunnel above the model

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 lights and cladding to wind damage and larger total building deflection. In addition, increased use of pedestrian plazas has brought about a need to consider wind and gustiness in the design of these areas. Techniques have been developed during the past decade for wind tunnel modeling of proposed structures which allow the prediction of wind pressures on cladding and wind environment about the building. Knowledge of pressures on the structure permits adequate but economical selection of window strength to meet selected maximum design winds and overall wind loads for design of frame for flexural control. Information on sidewalk-level gustiness allows plaza areas to be protected by design changes before the structure is constructed.

Modeling 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 scaled in geometry, that the approach mean velocity at the building site have a vertical profile shape similar to the full-scale flow, that the turbulence characteristics of the flows be similar, and that the Reynolds number for the model and prototype be equal.

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

1.2 The Building Site

A wind-tunnel study was performed for the proposed Garden Grove Community Church in Garden Grove, California. The 128 ft high building was modeled (Figure 4) at a 1:200 scale. The objectives of the wind engineering study were to obtain mean and fluctuating pressures on the building, and wind velocity and gustiness in the area adjacent to the structure. In addition, a flow visualization study was performed to define overall flow patterns and regions where local flow features might cause difficulties in panel loading or pedestrian discomfort.

The Church building will be located in Garden Grove, California, in flat open terrain. The area immediately adjacent to the building is a parking lot except for additional church buildings lying to the south (Figure 1). The areas farther from the structure are typical of

suburban areas. The structure is located in the path of the Santa Ana winds.

2. EXPERIMENTAL CONFIGURATION

2.1 Wind Tunnel

The wind-engineering study was performed in the Industrial Aerodynamics Wind Tunnel located in the Fluid Dynamics and Diffusion Laboratory at Colorado State University (Figure 2). The tunnel is a closed circuit facility driven by a 75 hp variable-pitch propeller. The test section is nominally 6 ft square and 62 feet long fed through a 4-to-1 contraction ratio. The roof is adjustable to maintain a zero pressure gradient along the test section. The mean velocity can be adjusted continuously from 1 to 80 fps.

2.2 Model

In order to obtain an accurate assessment of local pressures using piezometer taps, the model was constructed to the largest scale that would not produce significant blockage in the wind tunnel. A 1:200 scale model of the building was constructed from 1/2 in. Lucite plastic. Piezometer taps (1/16 in. dia) were drilled normal to the exterior surface at 166 locations on the east half of the building. The location of the taps on the structure is shown in Figures 3a to 3f. Dimensions and elevations are given both in full-scale feet and model inches. Although only one half of the model was instrumented, data was obtained in such a way that results would be valid for the other half of the building.

An area of approximately 600 ft radius surrounding the building site was modeled in detail. These structures were shaped from styrofoam to match individual building shapes. The church building was mounted on a 63 in. diameter turntable centered 55 ft from the test-section entrance. The turntable indicated azimuthal orientation to ± 0.1 degree.

The region upstream from the modeled area was covered with a randomized roughness constructed from 1 in. cubes to simulate the surrounding suburban area. Spires at the test section entrance provided a thicker boundary layer than would otherwise be available. The distribution of 1 in. roughness was designed to provide a boundary-layer thickness of approximately 4 ft, a velocity profile power-law exponent similar to that for the surrounding area, and a logarithmic velocity profile with a realistic roughness length. A photograph of the complete model is shown in Figure 4. The wind tunnel ceiling was adjusted after placement of the model to obtain a zero pressure gradient along the test section.

Data was obtained for two configurations of the adjacent buildings. Configuration 1 was with all buildings included. Some pressure data and all pedestrian velocity data were obtained for this configuration. Configuration 2 was without the adjacent church structures but with the generalized roughness upstream. Most pressure data were obtained for this configuration. In this configuration, data may be reflected about the building centerline and used for the portion of the structure not instrumented. The pressures obtained for Configuration 1 with adjacent buildings in place were used to confirm that the effect of adjacent buildings was to slightly lower wind loads and would not increase them.

3. INSTRUMENTATION AND DATA ACQUISITION

3.1 Flow Visualization

Visualization of the flow in the vicinity of the model is helpful in understanding and interpreting mean and fluctuating pressures, in defining vortex flows or zones of separated flow and reattachment where pressure coefficients may be expected to be high, and in indicating areas where pedestrian discomfort may be a problem. Titanium tetrachloride smoke was released from sources on and near the model and motion picture records made. Conclusions obtained from these smoke studies are discussed in Section 4.1.

3.2 Pressures

Mean and fluctuating pressures were obtained at each of the pressure ports on the wind tunnel model. Data was obtained for 24 wind directions (15 degree intervals). An 18 in. length of 1/16 in. I.D. plastic tubing connected 76 pressure ports on the model at a time to an 80 tap pressure switch mounted inside the model. The switch was designed and fabricated in the Fluid Dynamics and Diffusion Laboratory to minimize the attenuation of pressure fluctuations across the switch. Each of the 76 measurement ports was directed in turn by the switch to one of four pressure transducers mounted close to the switch. The switch was operated manually by means of a shaft projecting through the floor of the wind tunnel. A mechanical indexing feature locked the switch into each of the 20 required positions while a potentiometer provided an indication of the switch position on a digital voltmeter. The four pressure taps on the switch not used for transmitting building pressures were connected to a common tube leading outside the wind tunnel.

This arrangement provided both a means of performing in-place calibration of the transducers and, by connecting this tube to the dynamic side of a pitot tube placed in the wind tunnel, a means of automatically monitoring the tunnel speed using this valve position.

The pressure transducers used were Statham differential strain-gage transducers (Model PM283TC) with a 0.15 psid range. They were selected for the stability and linearity in the working range required. The resonant frequency of the transducers was approximately 2,000 Hz so that resonance effects could be ignored. A reference pressure was obtained by connecting the reference side of the transducer with plastic tubing to the static side of a pitot tube mounted in the wind tunnel free stream above the model building. In this way the transducer measured the instantaneous difference between the local surface pressure and the static pressure in the free stream above the model.

Each pressure transducer bridge was monitored by a Honeywell Accudata 118 Gage Control/Amplifier unit which provided excitation to the transducer bridge and amplified the bridge output. These instruments are characterized by a very stable excitation voltage and amplifier gain. Output from the Honeywell signal conditioners was fed to an on-line 8 channel System Development, Inc., analog-to-digital conversion unit. The data was processed onto digital tape for later data analysis by computer. Resolution of conversion was ± 0.0016 in pressure coefficient. All four transducers were recorded simultaneously for 16 seconds at a 250 sample-per-second rate. Longer records at a higher sample rate were obtained for several taps to determine correlations and spectra. The results of an experiment to determine the length of record required to obtain stable mean and rms pressures and to determine overall accuracy

of the pressure data acquisition system is shown in Figure 5. A typical pressure port record was integrated for a number of time periods to obtain the data shown. Examination of a large number of pressure taps showed that the overall accuracy for a 16 second average 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.

Reduction of the raw data to usable form was performed on the Colorado State University CDC 6400 computer as described in Section 4.3.

3.3 Velocity

Velocity and turbulence intensity profiles were measured upstream of the model to confirm that the approach velocity profile was appropriate for the site. In addition, mean velocity and turbulence intensity measurements were made 0.3 in. (5 ft prototype) above the surface at 20 locations (see Figure 1) under the walkthroughs or near the building for 16 wind directions. The surface measurements are indicative of the environment to which a pedestrian would be subjected.

Measurements were made with a single hot-wire anemometer mounted with its axis vertical. The instrumentation used was a Thermo Systems constant temperature anemometer (Model 1050) with a 0.001 in. diameter platinum film sensing element 0.020 in. long. Mean voltage output was read from a digital voltmeter with a time-constant circuit while rms voltage was obtained from a DISA RMS meter (Model 55D35) and was read from a digital voltmeter.

Calibration of the hot-wire anemometer was performed using a Thermo Systems calibrator (Model 1125). The calibration data were fit

to a variable exponent King's Law relationship

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

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

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

where E_{rms} is the root-mean-square voltage output from the anemometer. All turbulence measurements were divided by both local mean velocity U and mean velocity outside the boundary layer U_{∞} . Division by U gives an indication of the relative unsteadiness at the location while division by U_{∞} permits easy determination of the actual magnitude of rms velocity fluctuations at a point for various approach velocities.

The mean velocity and turbulence data obtained at sites 1-20 were combined with climatological data obtained at the Orange County Airport to provide an indication of the frequency with which velocities of various magnitudes could be expected at each measurement location. The data represented frequency of occurrence of winds as a function of wind direction and wind amplitude as an annual mean. This site is near the church location and should be representative of winds at the church. These data were combined with two types of velocities measured in the wind-tunnel test program: the mean velocity representing average conditions and the mean plus three times the rms velocity representing

a peak gust. The data were combined to provide, for each measurement location, the percentage of time during which a given velocity would be exceeded.

4. RESULTS

4.1 Flow Visualization

A film is included as part of the report showing the characteristics of flow about the structure using smoke to make the flow visible. A listing of 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 church building was deflected down to the ground level, up over the structure and around the sides.

Two flow characteristics were observed which could adversely affect the structure. A strong vortex was observed to form on the roof at the pointed east and west ends for winds from the east to northeast and west to northwest respectively. These vortices are indicative of possible high-pressure areas on the roof near these vertices.

The second characteristic noted from the flow visualization was a strong flow through the three walk-throughs for a wide range of wind directions. This flow is caused by the difference in pressure on opposite sides of the structure. A 9 ft extension was added to one walk-through to determine its influence on the flow. A slightly lower velocity in the walk-through may have resulted, but a much longer extension would be required to significantly change the flow conditions. The large velocities noted could adversely affect pedestrians.

4.2 Velocity

Approach velocity profiles are shown in Figures 6a and 6b. These profiles were taken upstream from the model and are characteristic of the boundary-layer approaching the model. The boundary-layer thickness δ , was 50 in. corresponding to a prototype value of 833 ft. This is

slightly low for the wind structure expected in the area but should not affect the results. In the form

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

the velocity profile has an exponent n of 0.26 for the approach flow which is an acceptable value for suburban environments such as Garden Grove with moderate building heights. If the upstream profile shown in Figure 6a is plotted in semilogarithmic form, the effective roughness height, z_0 , indicated by the zero velocity intercept of the best fit line is approximately 2 ft, which is slightly larger than might be anticipated for the site but still reasonable.

The profile of longitudinal turbulence intensity approaching the model is shown in Figure 6b. The turbulence intensities are typical of those found over suburban areas. For the purpose of this report, turbulence intensity is defined as the root-mean-square of the longitudinal velocity fluctuations divided by the reference mean velocity U_{∞} at the outer edge of the boundary-layer,

$$Tu_1 = \frac{U_{rms}}{U_{\infty}},$$

or as the rms velocity divided by the local mean velocity,

$$Tu_2 = \frac{U_{rms}}{U}.$$

Mean velocity and turbulence intensity at the pedestrian locations 1-20 shown in Figure 1 for 16 wind directions are listed in Table 2 and are plotted in Figures 7-16. Measurements were taken 0.3 in. (5 ft prototype) above the surface. A site map is superimposed on the

polar plots to aid in visualization of the effects of the nearby structure on the results. The largest mean velocities were rather large--in excess of 70 percent of the reference velocity U_{∞} at 833 ft. These values occurred generally in the walk-through areas under the building. Locations in open areas did not, in general, have high velocities. The largest values of fluctuating velocity (U_{rms}/U_{∞}) were generally located near the entrances to the walk-throughs and reached values up to about 23 percent of U_{∞} . The highest "gustiness" values (U_{rms}/U) were between 60 and 70 percent at various locations. Large values of gustiness must be interpreted in terms of the magnitude of mean velocity since a low local wind velocity can lead to large values as effectively as large rms velocities. Most sites did not experience large mean velocities and large "gustiness" values simultaneously.

To enable a quantitative assessment of the wind environment, the wind tunnel data were combined with wind frequency and direction information obtained at the Orange County Airport. Table 3 shows the frequency and direction data obtained from data summaries for the three windiest months (December - February). These data were converted to velocities at the reference height for the wind tunnel measurements (833 ft) and combined with the wind tunnel data to obtain cumulative probability distributions (percent time a given velocity is exceeded) for wind velocity at each site. The percentage times were summed by wind direction to get a percent time exceeded at each site independent of wind direction (but accounting for the fact that the wind blows from different directions with varying frequency). These results are listed in Table 4 and plotted in Figures 17 to 20.

Interpretation of Figures 17 to 20 is aided by a description of the effects of wind of various magnitudes on people. The earliest quantitative description of wind effects was established by Sir Francis Beaufort in 1806 for use at sea and is still in use today. Several recent investigators have added to the knowledge of wind effects on pedestrians. These investigations along with suggested criteria for acceptance have been summarized by Penwarden and Wise [4]. The Beaufort scale, based on mean velocity only, is reproduced as Table 5 including qualitative descriptions of wind effects. Table 5 suggests that mean wind speeds below 12 mph are of minor concern and that mean speeds above 24 mph are definitely inconvenient. From Figure 17 to 20, locations 1, 2 and 4 under the east walk-through reach mean velocities of 24 mph between 1.0 and 1.5 percent of the time. These three locations experience mean winds greater than 12 mph approximately 6-8 percent of the time. Most other locations experienced significantly lower wind speed probabilities.

Peak gust values in Figures 16 to 18 require a somewhat different interpretation. The peak gust curves shown are the percent of time during which a several-second gust of the stated magnitude could occur (say less than one of these gusts per hour). Evidence suggests that gusts greater than about 35 to 45 mph in magnitude can cause major impediment to pedestrians, particularly the elderly. Locations experiencing wind in which gusts of 35 mph or higher could occur greater than 1.0 percent of the time were located under the east and south walk-throughs. The percentage of time during which gusts of 24 mph could occur (the limit for agreeable mean winds on the Beaufort scale) was never larger than 5 percent and was much lower for many locations.

Because many locations were purposely chosen at sites where the flow visualization showed larger velocities of small spacial extent, the general wind environment about the structure is less severe than one might infer from an examination of Figures 16 to 18. Locations in the open generally did not experience wind increases due to the presence of the structure. Strong winds are generally confined to the walk-through areas. Because these areas are entrance areas where high concentrations of pedestrians are expected, some remedial action to protect these areas should be considered.

4.3 Pressures

For each of the pressure ports examined, the data record was analyzed to obtain four separate pressure coefficients. The first was the mean pressure coefficient

$$C_{p_{\text{mean}}} = \frac{(p-p_{\infty})_{\text{mean}}}{\frac{1}{2} \rho U_{\infty}^2}$$

where the symbols are as defined in the List of Symbols. It represents the mean of the instantaneous pressure difference between building pressure port and static pressure in the wind tunnel outside the boundary-layer nondimensionalized by the dynamic pressure $\frac{1}{2} \rho U_{\infty}^2$ outside the boundary-layer. The magnitude of the fluctuating pressure was obtained by the rms pressure coefficient

$$C_{p_{\text{mean}}} = \frac{\left((p-p_{\infty}) - (p'-p_{\infty})_{\text{mean}} \right)_{\text{rms}}}{\frac{1}{2} \rho U_{\infty}^2}$$

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

If the pressure fluctuations followed a Gaussian probability distribution, no additional data would be required to predict the frequency with which any given pressure level would be observed. However, the pressure fluctuations do not 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:

$$C_{p_{\max}} = \frac{(p-p_{\infty})_{\max}}{\frac{1}{2} \rho U_{\infty}^2}$$

$$C_{p_{\min}} = \frac{(p-p_{\infty})_{\min}}{\frac{1}{2} \rho U_{\infty}^2} .$$

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

The four pressure coefficients were calculated using the Colorado State University CDC 6400 computer and tabulated. The list of coefficients for Configurations 1 (with adjacent structures) and 2 (without adjacent structures) is included as Appendix A. The tap code number in the Appendix is given in Figure 3. In addition, the Appendix includes the approach wind azimuth in degrees from true north.

In order to determine the largest loads acting at any point on the structure, the data for all wind directions was searched to obtain, at each pressure tap, the largest positive and negative mean values and the largest positive and negative peak values. Table 6 provides these

pressure coefficients and associated wind directions for Configuration 2. The largest positive peak value on the structure was 1.0. The largest peak negative pressure coefficient was -2.52 at tap 4912 for a wind azimuth of 73 degrees. In general, the largest peak negative coefficients were rather moderate.

The pressure coefficients of Table 6 can be converted to full-scale loads by multiplication by a suitable reference pressure selected for the field site. A reference pressure was obtained for Garden Grove from data published by Lew and Hart [5] which included Santa Ana winds. The wind magnitude for a 50-year return period in the Garden Grove area is 98 mph for a fastest-mile wind at 30 ft elevation. A factor of 1.28 [6] was used to reduce this velocity to a one-hour mean velocity--equivalent to the wind tunnel mean velocity. The resulting 76 mph was then translated to a prototype elevation equivalent to the height of the reference wind tunnel measurement (833 ft) by means of a power-law velocity profile with a 0.14 exponent. This exponent corresponds to an open area for which the winds in [5] were quoted. The mean velocity at 833 ft was calculated as 121 mph. The appropriate reference pressure based on this velocity is given by $0.00256 U^2 = 37$ psf from the ANSI standard.

Recent research [7] indicates that the period of application of the peak pressures reported herein is about 4-5 seconds. If a glass design is based on these peak values, then a glass strength associated with this duration load is indicated. If the glass design is based on some alternate load duration--say one minute--then some reduction in peak loads should be made. An estimate of a load reduction factor can be obtained from an empirical relation of glass strength as a function of load duration. A factor of 0.73 on the reference pressure was used

to convert the short 5-10 second pressure peaks to one minute loads typically cited in glass selection charts. The resulting 100-year recurrence reference pressure is 27 psf. Figure 21 gives psf loadings on the full-scale structure which result from multiplication of the 27 psf reference pressure by the peak coefficients of Table 6. The largest of the peak positive or peak negative coefficient was used.

To calculate mean loads on the structure for a given wind direction, the mean coefficients of Appendix A can be used. Instead of using the basic reference pressure of 37 psf discussed earlier (which would give the mean load averaged over an hour), a gust factor should be applied. A gust factor of 1.2 on the mean hourly wind, or a factor of $(1.2)^2 = 1.44$ in reference pressure, is a reasonable value. Thus a reference pressure of 54 psf should be used with the mean coefficients of Appendix A to provide mean loading for a given wind direction.

Data on the structure were obtained with the assumption that all windows and doors were closed. The data represent external aerodynamic pressures; internal pressures were not modeled or measured. Open windows or doors could alter somewhat the external pressures and could significantly alter internal pressures in a direction to increase loads on the glass.

In order to determine whether or not large wind loads were acting on the narrow projections at the east and west ends of the structure, pressure correlations were obtained for pressure ports on either side of the projection for several wind directions. If these correlations showed large negative values (near -1.0), the indication is that a large positive pressure on one face is associated with a large negative pressure

on the other--an undesirable loading situation. Figure 22 shows correlations for pressure taps 1104 and 6904 for wind azimuth 73 where loading conditions are expected to be worst. The indication from this data is that pressure correlations across the narrow projections do not lead to load amplifications.

Pressure spectra were obtained for three special taps on the northwest walls of the building to determine high frequency loading magnitudes. These tap locations are shown in Figure 23. Data was obtained for three wind directions selected to find possible high-frequency content: azimuths 253, 315, and 045. Data was obtained using a Setra Model 242 TC transducer having a 3/8 inch tube length (3/4 inch for tap 1). Frequency response of this transducer has not been precisely established but should be nearly flat to a frequency of 600 Hz. A low-pass filter was applied at 650 Hz to eliminate a transducer carrier-frequency noise at 4000 Hz. The spectra shown in Figure 24 are representative of the data obtained.

The ordinant in Figure 24 is the spectral amplitude in C_p^2/Hz and integrates over frequency to the square of the $C_{p_{rms}}$ shown in the table. The ordinant can be converted to engineering units of $(\text{psf})^2/\text{Hz}$ by multiplication by the square of the reference pressure. (Using a 50-year recurrence wind of 98 mph at 30 ft in open country results in a reference pressure of 37 psf.) The abscissa is given in reduced frequency nH/U_∞ . Frequency in Hz can be obtained by using the value of $H = 128$ ft for the height of the full-scale structure and a value of U_∞ corresponding to the reference pressure. A U_∞ consistent with the 37 psf value cited above is 177 feet per second (121 mph) which is the 50-year mean hourly wind at 833 ft elevation. For this case, the largest frequencies plotted are about 6.9 Hz full scale.

5. CONCLUSIONS

A simulated atmospheric boundary-layer flow over a model of the Garden Grove Community Church building was established whose characteristics compared favorably with the expected atmospheric flow. Flow visualization showed areas on the structure where high pressures might be expected. The velocities of concern to pedestrians appear to be beneath the walk-throughs.

Pressure measurements on the structure confirmed that fairly large pressures occurred on the structure in regions of roof-vortex formation. The largest peak pressures calculated for glass design were negative (outward acting) and ranged up to -2.5 times the reference dynamic pressure or about 65 psf. Most locations, however, had peak pressures less than -1.5 times the dynamic pressure.

Quantitative evaluation of velocities at 20 locations about the structure indicated that velocities underneath the walk-through were rather high and could result in pedestrian discomfort.

REFERENCES

1. Cermak, J. E. (1971) "Laboratory Simulation of the Atmospheric Boundary Layer," AIAA J1., Vol. 9, September.
2. Cermak, J. E. (1975) "Applications of Fluid Mechanics to Wind Engineering," A Freeman Scholar Lecture, ASME J1. of Fluids Engineering, Vol. 97, No. 1, March.
3. Davenport, A. G. and Isyumov, N. (1967) "The Application of the Boundary Layer Wind Tunnel to the Prediction of Wind Loading," Proc. of Int. Res. Seminar on Wind Effects on Buildings and Structures, VI, N.R.C., Canada.
4. Penwarden, A. D. and Wise, A. F. E. (1975) "Wind Environment Around Buildings," Building Research Establishment Report, HMSO.
5. Lew, M. and Hart, G. C. (1976) "The Microzonation for Wind Effects on Structures," Vol. 1, Report ENG76101 EWE 7602, UCLA, October.
6. Vellozzi, J. and Cohen, C. (1968) "Gust Response Factors," J1. Structural Div., ASCE, Proc. Paper No. 5980, Vol. 94, No. ST6.
7. Peterka, J. A. and Cermak, J. E. (1974) "Peak-Pressure Duration in Separated Regions on a Structure," U.S.-Japan Research Seminar on Wind Effects on Structures, Kyoto, Japan, 9-13 September 1974; Report CEP74-75-JAP-JEC8, Fluid Mechanics Program, Colorado State University, September.

TABLE 1. MOTION PICTURE SCENE GUIDE

<u>Scene</u>	<u>Approach Wind Direction</u>
Titles and Model	
1	0
2	45
3	73
4	90
5	120
6	180
7	225
8	270
9	315
10*	45
Model Wind Velocity	10 fps

* Entrance to walk-through modified by 9 ft extension of tunnel.

TABLE 2. MEAN AND FLUCTUATING VELOCITIES AROUND THE BASE OF THE BUILDING

POSITION 1

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	58.5	13.3	22.7
22.50	64.8	12.2	18.8
45.00	62.3	10.4	16.7
67.50	39.1	9.7	24.7
90.00	17.5	10.3	58.8
112.50	37.8	10.7	28.3
135.00	55.6	11.2	20.1
157.50	62.5	15.3	24.4
180.00	70.3	14.1	20.1
202.50	50.0	15.6	31.1
225.00	41.6	8.3	20.0
247.50	28.3	7.3	25.8
270.00	16.8	7.2	42.9
292.50	12.9	5.9	45.5
315.00	30.4	12.9	40.6
337.50	39.5	15.7	39.8

POSITION 2

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	74.3	12.8	17.2
22.50	71.4	16.1	22.5
45.00	58.3	12.0	20.7
67.50	34.5	10.1	29.4
90.00	16.4	8.8	53.6
112.50	42.6	10.0	23.4
135.00	58.6	9.7	16.6
157.50	56.8	11.5	20.3
180.00	47.6	15.8	33.1
202.50	29.7	13.8	46.4
225.00	33.4	7.4	22.1
247.50	25.9	6.2	23.9
270.00	16.7	6.6	39.6
292.50	12.7	6.3	49.5
315.00	47.9	14.0	29.3
337.50	59.4	14.6	24.6

POSITION 3

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	58.4	13.3	22.8
22.50	59.7	14.0	23.4
45.00	60.8	13.6	22.4
67.50	30.8	14.2	46.0
90.00	18.6	9.2	49.5
112.50	22.6	8.4	37.2
135.00	24.4	6.6	27.2
157.50	24.3	9.0	37.0
180.00	33.2	10.8	32.4
202.50	30.7	11.6	37.9
225.00	26.9	8.9	33.2
247.50	26.3	9.7	36.8
270.00	26.2	9.8	37.4
292.50	18.2	6.9	38.0
315.00	41.5	11.2	27.1
337.50	50.3	12.9	25.7

POSITION 4

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	67.4	14.3	21.3
22.50	66.9	15.0	22.5
45.00	63.8	13.2	20.6
67.50	42.3	12.2	28.9
90.00	17.6	10.9	62.0
112.50	47.5	13.5	28.4
135.00	64.1	12.7	19.8
157.50	62.1	14.7	22.8
180.00	65.2	13.3	20.4
202.50	50.9	13.4	26.2
225.00	39.0	9.2	23.7
247.50	31.0	8.4	27.2
270.00	23.8	7.9	33.4
292.50	17.7	7.8	44.2
315.00	47.6	12.3	25.9
337.50	58.4	13.1	22.4

TABLE 2 (continued). MEAN AND FLUCTUATING VELOCITIES AROUND THE BASE OF THE BUILDING

POSITION 5

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	35.6	10.4	29.2
22.50	25.2	9.7	38.5
45.00	21.1	6.6	31.1
67.50	18.6	7.9	42.3
90.00	19.4	8.2	42.2
112.50	34.1	15.7	46.0
135.00	60.0	12.9	21.5
157.50	53.3	12.7	23.9
180.00	54.6	12.7	23.3
202.50	41.6	11.7	28.1
225.00	35.7	8.3	23.3
247.50	29.9	7.8	26.2
270.00	20.5	7.5	36.4
292.50	15.6	7.8	50.2
315.00	34.3	11.1	32.3
337.50	38.1	11.4	30.0

POSITION 6

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	63.6	13.9	21.9
22.50	52.1	23.1	44.4
45.00	37.2	21.6	58.0
67.50	20.2	12.5	62.0
90.00	13.9	8.7	62.4
112.50	41.3	8.7	21.0
135.00	49.0	6.7	13.8
157.50	47.8	7.9	16.5
180.00	52.3	8.7	16.6
202.50	43.0	9.4	21.9
225.00	35.3	7.6	21.5
247.50	33.6	8.7	26.0
270.00	26.9	9.3	34.5
292.50	17.7	8.3	47.1
315.00	47.0	11.4	24.3
337.50	54.4	12.7	23.3

POSITION 7

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	52.7	8.4	15.9
22.50	48.5	8.1	16.6
45.00	49.3	7.1	14.3
67.50	37.3	8.8	23.5
90.00	20.7	11.1	53.5
112.50	18.9	11.2	59.1
135.00	39.2	22.8	58.1
157.50	40.4	22.1	54.6
180.00	56.9	15.6	27.4
202.50	46.2	13.2	28.7
225.00	39.2	9.2	23.4
247.50	34.5	9.3	27.1
270.00	23.6	9.4	39.6
292.50	19.8	8.3	42.0
315.00	41.9	9.3	22.2
337.50	47.0	9.0	19.2

POSITION 8

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	26.5	10.8	40.9
22.50	22.4	12.9	57.6
45.00	13.6	7.2	53.1
67.50	17.2	7.6	44.0
90.00	28.8	8.5	29.5
112.50	40.6	11.1	27.5
135.00	33.7	15.9	47.2
157.50	26.1	14.2	54.3
180.00	35.5	15.1	42.3
202.50	27.2	12.5	45.7
225.00	17.1	8.5	49.6
247.50	15.9	7.4	46.4
270.00	15.0	8.1	54.3
292.50	41.0	14.5	35.3
315.00	38.6	12.1	31.2
337.50	32.1	10.2	31.6

TABLE 2 (continued). MEAN AND FLUCTUATING VELOCITIES AROUND THE BASE OF THE BUILDING

POSITION 9

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	58.2	9.7	16.7
22.50	50.4	12.6	25.0
45.00	48.4	11.5	23.7
67.50	31.3	9.2	29.4
90.00	17.2	9.5	55.4
112.50	32.9	9.9	30.1
135.00	49.5	10.3	20.9
157.50	54.1	10.0	18.4
180.00	57.9	9.5	16.5
202.50	47.7	10.0	20.9
225.00	39.6	8.6	21.8
247.50	37.0	9.8	26.5
270.00	35.6	12.5	35.0
292.50	20.3	10.5	51.5
315.00	52.4	10.0	19.1
337.50	57.3	10.2	17.9

POSITION 10

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	32.9	15.4	46.7
22.50	26.8	14.5	54.0
45.00	43.4	15.4	35.5
67.50	39.6	8.8	22.2
90.00	25.3	10.0	39.5
112.50	18.0	7.9	43.8
135.00	16.3	8.0	49.2
157.50	16.8	7.8	46.1
180.00	22.2	8.2	36.8
202.50	24.9	9.8	39.4
225.00	33.3	10.4	31.3
247.50	28.8	10.4	36.0
270.00	25.8	10.1	39.2
292.50	11.8	5.9	50.1
315.00	22.5	11.2	49.9
337.50	24.7	12.5	50.8

POSITION 11

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	24.1	8.5	35.1
22.50	15.8	8.2	51.6
45.00	38.7	13.8	35.6
67.50	39.3	9.5	24.1
90.00	30.5	9.5	31.1
112.50	25.3	8.3	33.0
135.00	19.3	8.5	44.1
157.50	14.5	7.5	51.9
180.00	16.9	8.4	49.4
202.50	23.2	12.1	52.2
225.00	36.6	12.7	34.8
247.50	41.1	10.0	24.2
270.00	43.0	9.6	22.4
292.50	30.3	11.0	36.1
315.00	40.0	12.3	30.8
337.50	41.7	15.9	38.1

POSITION 12

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	14.5	6.1	42.1
22.50	20.7	6.9	33.2
45.00	17.3	7.4	43.1
67.50	28.3	10.1	35.6
90.00	39.3	11.0	28.1
112.50	41.6	12.5	29.9
135.00	25.3	11.0	43.4
157.50	14.2	7.0	49.2
180.00	12.2	5.1	41.6
202.50	15.8	9.4	59.6
225.00	35.2	14.9	42.4
247.50	46.0	14.9	32.3
270.00	49.6	12.4	25.1
292.50	27.7	10.0	36.0
315.00	29.5	12.4	42.2
337.50	28.1	12.2	43.4

TABLE 2 (continued). MEAN AND FLUCTUATING VELOCITIES AROUND THE BASE OF THE BUILDING

POSITION 13

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	11.1	6.8	61.2
22.50	13.5	7.0	52.3
45.00	15.6	10.4	66.7
67.50	38.9	13.7	35.3
90.00	55.9	12.2	21.9
112.50	61.2	12.5	20.4
135.00	46.2	16.0	34.7
157.50	23.7	13.7	57.8
180.00	23.9	11.2	46.9
202.50	11.1	7.5	67.2
225.00	42.8	15.5	36.5
247.50	53.7	13.5	25.2
270.00	52.1	12.1	23.2
292.50	27.6	11.3	40.9
315.00	35.4	12.4	34.9
337.50	38.8	16.2	41.8

POSITION 14

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	35.0	11.7	33.3
22.50	30.1	10.8	35.9
45.00	43.3	12.5	28.8
67.50	36.7	10.0	27.2
90.00	46.9	10.5	22.3
112.50	49.5	9.9	20.0
135.00	41.0	10.0	24.4
157.50	35.0	8.8	25.1
180.00	33.5	9.8	29.3
202.50	30.6	14.6	47.7
225.00	33.9	10.7	31.7
247.50	31.0	9.5	30.7
270.00	36.5	8.4	23.1
292.50	32.6	8.8	27.0
315.00	34.0	11.8	34.7
337.50	47.5	14.6	30.8

POSITION 15

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	64.0	15.4	24.0
22.50	47.0	16.0	34.1
45.00	19.7	10.0	51.1
67.50	27.2	9.7	35.7
90.00	25.6	10.7	41.8
112.50	26.1	18.5	40.3
135.00	35.6	9.9	27.8
157.50	41.2	9.6	23.4
180.00	39.7	11.2	28.1
202.50	22.7	7.6	33.3
225.00	23.0	8.0	34.9
247.50	22.6	8.7	38.6
270.00	23.7	8.9	37.6
292.50	27.5	12.2	44.3
315.00	48.8	15.7	32.2
337.50	65.4	14.3	21.9

POSITION 16

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	43.1	22.5	52.3
22.50	29.2	17.3	59.2
45.00	19.6	9.8	50.1
67.50	17.5	9.0	51.3
90.00	17.9	8.8	49.0
112.50	33.7	12.0	35.6
135.00	30.3	14.9	49.2
157.50	52.4	19.1	36.4
180.00	36.2	18.5	51.2
202.50	57.1	11.1	19.4
225.00	48.3	12.1	25.1
247.50	31.2	10.4	33.4
270.00	18.0	9.6	53.3
292.50	38.2	9.7	25.3
315.00	49.7	15.3	30.8
337.50	68.7	12.7	18.5

TABLE 2 (continued). MEAN AND FLUCTUATING VELOCITIES AROUND THE BASE OF THE BUILDING

POSITION 17

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	73.6	17.2	23.3
22.50	51.1	21.4	41.9
45.00	31.4	12.9	41.0
67.50	21.0	7.8	37.0
90.00	19.6	7.1	36.4
112.50	21.6	9.0	41.9
135.00	17.2	9.6	56.2
157.50	22.6	13.0	56.9
180.00	36.1	17.8	46.8
202.50	60.5	4.4	15.5
225.00	51.3	10.0	19.6
247.50	28.3	10.4	36.6
270.00	17.9	10.0	55.9
292.50	35.9	10.2	28.5
315.00	59.2	16.9	28.6
337.50	75.6	15.6	20.6

POSITION 18

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	39.8	10.0	25.1
22.50	40.7	9.7	23.9
45.00	23.0	10.9	47.2
67.50	22.1	7.7	35.0
90.00	26.2	7.1	27.1
112.50	33.0	8.9	26.9
135.00	35.9	11.0	30.5
157.50	46.1	14.3	31.5
180.00	53.2	13.0	34.5
202.50	49.4	13.9	28.2
225.00	44.8	16.1	35.9
247.50	18.0	9.3	51.8
270.00	23.3	9.7	41.5
292.50	18.7	8.9	47.7
315.00	24.0	11.2	46.7
337.50	27.9	10.8	38.6

POSITION 19

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	13.5	6.5	48.4
22.50	17.0	9.4	55.2
45.00	17.2	8.8	51.3
67.50	9.4	4.6	48.5
90.00	5.5	2.5	45.1
112.50	9.0	4.2	46.4
135.00	12.8	6.0	46.9
157.50	14.8	6.7	45.4
180.00	18.1	4.4	52.3
202.50	16.9	7.3	43.4
225.00	15.6	7.6	47.8
247.50	31.3	7.9	25.1
270.00	42.7	9.1	21.2
292.50	39.7	10.7	26.9
315.00	23.9	12.6	52.7
337.50	18.7	10.0	53.6

POSITION 20

WIND AZIMUTH	U/UINF (PERCENT)	URMS/UINF (PERCENT)	URMS/U (PERCENT)
0.00	15.1	7.6	50.4
22.50	27.1	9.4	34.7
45.00	36.2	10.6	29.3
67.50	41.7	10.0	23.9
90.00	43.6	9.1	20.9
112.50	36.8	11.4	31.1
135.00	46.2	15.6	33.6
157.50	13.8	7.2	52.5
180.00	25.8	11.4	44.4
202.50	33.7	12.7	37.8
225.00	39.4	9.3	23.6
247.50	37.2	8.4	22.6
270.00	37.6	9.1	24.2
292.50	35.9	10.8	30.1
315.00	25.8	11.9	46.1
337.50	17.4	8.4	48.2

TABLE 3. ORANGE COUNTY AIRPORT WIND DATA

Percentage Frequencies of Wind Direction and Speed
Annual Hourly Observations of Wind Speed - Miles Per Hour

<u>Direction</u>	<u>1-3</u>	<u>4-12</u>	<u>13-24</u>	<u>25-31</u>	<u>32-46</u>	<u>> 47</u>	<u>Total</u>
N	1.1	0.5					1.6
NNE	0.9	1.1	0.1				2.1
NE	3.9	3.9	0.9	0.4	0.1		9.2
ENE	1.5	3.2	0.2				4.9
E	6.9	12.0	0.3	0.1			19.3
ESE	0.5	2.3	0.3	0.2			3.3
SE	3.2	6.6	0.5	0.2	0.2		10.7
SSE	0.3	1.2	0.4	0.1	0.1		2.1
S	2.0	2.9	0.5				5.4
SSW	0.6	2.8	0.2				3.6
SW	2.4	8.1	0.3				10.8
WSW	0.4	3.1	0.1				3.6
W	2.0	5.1	0.6	0.2			7.9
WNW	0.3	1.1	0.4	0.2			2.0
NW	2.1	2.5	0.4	0.1			5.1
NNW	0.7	1.2	0.0				1.9
Total	28.8	57.6	5.2	1.5	0.4		93.5
						Calm	6.5
						Total	100

TABLE 4. PROBABILITY DISTRIBUTIONS FOR WINDS

POSITION 1				POSITION 2			
VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN}) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN} + 3 U _{RMS}) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN}) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN} + 3 U _{RMS}) EXCEEDS VELOCITY LEVEL
2.0	65.06	3.0	73.26	2.0	63.95	3.0	72.23
4.0	38.51	5.0	57.82	4.0	36.60	5.0	55.65
8.0	16.15	9.0	33.58	8.0	14.67	9.0	29.48
11.0	7.93	16.0	11.52	11.0	7.29	16.0	10.78
14.0	4.22	18.0	8.40	14.0	3.93	18.0	7.61
20.0	2.25	26.0	3.54	20.0	2.01	26.0	3.42
26.0	1.13	32.0	2.45	26.0	.95	32.0	2.35
30.0	.62	36.0	1.78	30.0	.52	36.0	1.66
34.0	.33	45.0	.78	34.0	.32	45.0	.72
38.0	.23	50.0	.45	38.0	.21	50.0	.39
42.0	.12	55.0	.34	42.0	.11	55.0	.28
45.0	.05	65.0	.16	45.0	.02	65.0	.11

POSITION 3				POSITION 4			
VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN}) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN} + 3 U _{RMS}) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN}) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (U _{MEAN} + 3 U _{RMS}) EXCEEDS VELOCITY LEVEL
2.0	61.06	3.0	70.49	2.0	68.43	3.0	75.54
4.0	29.86	5.0	54.02	4.0	42.04	5.0	61.19
8.0	8.64	9.0	26.09	8.0	19.14	9.0	37.54
11.0	4.11	16.0	7.50	11.0	9.72	16.0	14.47
14.0	1.92	18.0	5.85	14.0	4.49	18.0	10.60
20.0	.97	26.0	2.05	20.0	2.63	26.0	4.02
26.0	.46	32.0	1.21	26.0	1.22	32.0	2.91
30.0	.24	36.0	.89	30.0	.78	36.0	2.25
34.0	.09	45.0	.41	34.0	.41	45.0	1.03
38.0	.06	50.0	.25	38.0	.30	50.0	.70
42.0	.04	55.0	.10	42.0	.20	55.0	.42
45.0	.02	65.0	.06	45.0	.13	65.0	.25

TABLE 4 (continued). PROBABILITY DISTRIBUTIONS FOR WINDS

POSITION 5

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	60.74
4.0	32.30
8.0	10.17
11.0	4.62
14.0	2.23
20.0	1.01
26.0	.51
30.0	.35
34.0	.24
38.0	.15
42.0	.07
45.0	.03

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	68.78
5.0	53.40
9.0	26.19
16.0	8.39
18.0	5.94
26.0	2.21
32.0	1.42
36.0	1.00
45.0	.47
50.0	.34
55.0	.26
65.0	.13

POSITION 6

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	61.88
4.0	37.02
8.0	12.05
11.0	4.79
14.0	3.07
20.0	.99
26.0	.34
30.0	.20
34.0	.11
38.0	.01
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	72.11
5.0	56.05
9.0	30.20
16.0	8.89
18.0	7.02
26.0	3.01
32.0	1.79
36.0	1.27
45.0	.61
50.0	.34
55.0	.11
65.0	.06

POSITION 7

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	65.59
4.0	38.43
8.0	11.29
11.0	4.60
14.0	2.95
20.0	1.13
26.0	.28
30.0	.11
34.0	.04
38.0	.01
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	73.59
5.0	59.08
9.0	35.73
16.0	10.92
18.0	8.56
26.0	3.02
32.0	1.87
36.0	1.32
45.0	.65
50.0	.51
55.0	.36
65.0	.22

POSITION 8

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	53.70
4.0	25.34
8.0	4.30
11.0	2.50
14.0	1.46
20.0	.33
26.0	.02
30.0	0.00
34.0	0.00
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	67.43
5.0	50.67
9.0	23.67
16.0	5.88
18.0	4.09
26.0	2.17
32.0	1.20
36.0	.78
45.0	.24
50.0	.16
55.0	.09
65.0	0.00

TABLE 4 (continued). PROBABILITY DISTRIBUTIONS FOR WINDS

POSITION 9

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
2.0	66.98	3.0	73.61
4.0	41.60	5.0	58.18
8.0	15.15	9.0	34.76
11.0	6.04	16.0	9.27
14.0	3.88	18.0	6.29
20.0	1.59	26.0	3.39
26.0	.50	32.0	1.86
30.0	.30	36.0	1.14
34.0	.18	45.0	.38
38.0	.05	50.0	.28
42.0	.01	53.0	.19
45.0	0.00	65.0	.01

POSITION 10

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
2.0	57.10	3.0	68.77
4.0	27.93	5.0	52.55
8.0	4.71	9.0	25.62
11.0	1.95	16.0	5.35
14.0	.98	18.0	4.04
20.0	.35	26.0	1.53
26.0	.08	32.0	.76
30.0	.04	36.0	.57
34.0	.00	45.0	.21
38.0	0.00	50.0	.09
42.0	0.00	55.0	.07
45.0	0.00	65.0	.03

POSITION 11

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
2.0	61.58	3.0	70.55
4.0	35.42	5.0	55.63
8.0	6.98	9.0	30.65
11.0	3.35	16.0	6.06
14.0	1.83	18.0	4.77
20.0	.31	26.0	2.20
26.0	.05	32.0	.94
30.0	.01	36.0	.50
34.0	0.00	45.0	.09
38.0	0.00	50.0	.07
42.0	0.00	55.0	.04
45.0	0.00	65.0	0.00

POSITION 12

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL	VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
2.0	59.85	3.0	69.44
4.0	35.43	5.0	55.20
8.0	7.62	9.0	32.40
11.0	2.62	16.0	7.15
14.0	1.47	18.0	4.52
20.0	.35	26.0	1.97
26.0	.02	32.0	.93
30.0	0.00	36.0	.52
34.0	0.00	45.0	.04
38.0	0.00	50.0	0.00
42.0	0.00	55.0	0.00
45.0	0.00	65.0	0.00

TABLE 4 (continued). PROBABILITY DISTRIBUTIONS FOR WINDS

POSITION 13

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	65.56
4.0	45.50
8.0	18.02
11.0	5.67
14.0	2.66
20.0	1.21
26.0	.49
30.0	.19
34.0	.04
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	74.34
5.0	61.51
9.0	41.95
16.0	15.79
18.0	9.61
26.0	3.10
32.0	1.91
36.0	1.30
45.0	.56
50.0	.27
55.0	.16
65.0	.08

POSITION 14

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	69.23
4.0	47.50
8.0	12.61
11.0	4.99
14.0	3.02
20.0	1.03
26.0	.23
30.0	.09
34.0	.00
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	74.89
5.0	60.22
9.0	38.61
16.0	7.92
18.0	5.93
26.0	2.86
32.0	1.47
36.0	.94
45.0	.24
50.0	.14
55.0	.06
65.0	0.00

POSITION 15

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	61.28
4.0	31.46
8.0	7.36
11.0	3.28
14.0	1.45
20.0	.43
26.0	.11
30.0	.02
34.0	0.00
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	70.70
5.0	54.88
9.0	27.73
16.0	7.26
18.0	5.75
26.0	1.95
32.0	.86
36.0	.53
45.0	.19
50.0	.06
55.0	.00
65.0	0.00

POSITION 16

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	59.74
4.0	31.40
8.0	10.80
11.0	4.08
14.0	2.21
20.0	.58
26.0	.14
30.0	.09
34.0	.06
38.0	.03
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	71.59
5.0	57.06
9.0	31.58
16.0	10.43
18.0	6.98
26.0	2.81
32.0	1.66
36.0	.98
45.0	.42
50.0	.27
55.0	.17
65.0	.08

TABLE 4 (continued). PROBABILITY DISTRIBUTIONS FOR WINDS

POSITION 17

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	60.10
4.0	30.30
8.0	12.02
11.0	4.66
14.0	2.05
20.0	.45
26.0	.08
30.0	.02
34.0	0.00
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	70.96
5.0	55.29
9.0	27.98
16.0	10.29
18.0	7.33
26.0	2.48
32.0	1.31
36.0	.66
45.0	.21
50.0	.10
55.0	.03
65.0	0.00

POSITION 18

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	62.04
4.0	35.51
8.0	9.37
11.0	3.23
14.0	1.84
20.0	.48
26.0	.14
30.0	.05
34.0	.02
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	70.10
5.0	55.62
9.0	30.28
16.0	9.40
18.0	6.59
26.0	2.25
32.0	1.06
36.0	.63
45.0	.23
50.0	.14
55.0	.07
65.0	.02

POSITION 19

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	34.25
4.0	12.81
8.0	3.22
11.0	1.31
14.0	.78
20.0	.16
26.0	0.00
30.0	0.00
34.0	0.00
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	47.78
5.0	32.08
9.0	12.22
16.0	3.13
18.0	2.46
26.0	.83
32.0	.32
36.0	.09
45.0	0.00
50.0	0.00
55.0	0.00
65.0	0.00

POSITION 20

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN) EXCEEDS VELOCITY LEVEL
2.0	66.80
4.0	44.92
8.0	10.92
11.0	4.12
14.0	2.57
20.0	.54
26.0	.21
30.0	.11
34.0	.04
38.0	0.00
42.0	0.00
45.0	0.00

VELOCITY LEVEL --MPH	PERCENT TIME (UMEAN + 3 URMS) EXCEEDS VELOCITY LEVEL
3.0	72.86
5.0	59.01
9.0	36.68
16.0	7.78
18.0	6.17
26.0	2.61
32.0	1.30
36.0	.68
45.0	.34
50.0	.22
55.0	.16
65.0	.07

TABLE 5. SUMMARY OF WIND EFFECTS ON PEOPLE

	Beaufort number	Speed (mph)	Effects
Calm, light air	0,1	0- 3	Calm, no noticeable wind
Light breeze	2	4- 7	Wind felt on face
Gentle breeze	3	8-12	Wind extends light flag Hair is disturbed Clothing flaps
Moderate breeze	4	13-18	Raises dust, dry soil and loose paper Hair disarranged
Fresh breeze	5	19-24	Force of wind felt on body Drifting snow becomes airborne Limit of agreeable wind on land
Strong breeze	6	25-31	Unbrellas 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	Inconvencience 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.

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2

TABLE 6. LARGEST AND SMALLEST PRESSURE COEFFICIENTS FOR EACH TAP

TAP NUMBER	MAXIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MAXIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION
1101	.141	90	-.352	135	.462	81	-1.238	120
1102	.211	81	-.367	135	.666	73	-1.174	120
1103	.269	81	-.355	135	.742	77	-1.068	105
1104	.311	81	-.347	135	.889	77	-.812	120
1105	.149	60	-.340	135	.733	45	-.865	120
1201	.195	75	-.369	135	.585	60	-1.225	135
1202	.214	75	-.366	135	.591	45	-1.094	120
1301	.266	30	-.360	135	.758	15	-.878	120
1302	.245	60	-.384	135	.659	30	-.904	120
1303	.295	45	-.386	135	.798	30	-.776	120
1304	.115	45	-.341	135	.561	30	-.798	120
1401	.117	90	-.340	135	.349	75	-.795	135
1402	.261	45	-.312	150	.755	30	-.666	135
1403	.299	45	-.400	135	.866	45	-.877	120
1404	.091	30	-.333	135	.570	30	-.693	120
1501	.185	75	-.389	135	.492	79	-1.461	135
1502	.277	45	-.294	150	.783	30	-.639	135
1503	.307	15	-.349	135	.878	30	-.670	135
1504	.088	30	-.285	150	.588	30	-.814	300
1601	.317	45	-.285	150	.831	30	-.451	150
1602	.280	45	-.285	150	.650	30	-.506	135
1603	.339	30	-.287	150	.912	15	-.591	315
1604	.134	105	-.306	150	.658	60	-.878	150
1701	.313	45	-.285	150	.801	45	-.613	135
1702	.324	45	-.283	150	.862	30	-.606	315
1703	.146	15	-.295	165	.848	0	-.785	120
1801	.284	30	-.282	150	.658	30	-.659	330
1802	.269	45	-.288	150	.682	30	-.712	315
1803	.317	45	-.294	150	.776	45	-.914	315
1804	.285	30	-.301	180	1.008	45	-.639	135
2101	.264	30	-.275	150	.673	30	-.687	315
2102	.242	15	-.302	135	.684	15	-.938	120
2103	.258	15	-.313	77	.859	15	-1.051	79
2201	.300	15	-.258	165	.902	30	-1.069	75
2202	.298	0	-.264	150	.990	30	-.782	120
2203	.274	0	-.320	77	.769	15	-1.072	315
2301	.284	15	-.278	165	.741	30	-.628	315
2302	.259	15	-.291	165	.676	15	-.638	315
2303	.284	15	-.288	165	.791	15	-.741	315
2401	.230	0	-.292	165	.595	0	-.593	225
2402	.205	0	-.309	165	.664	0	-.725	315
2403	.257	15	-.319	165	.773	0	-1.751	315

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2

TABLE 6 (continued). LARGEST AND SMALLEST PRESSURE COEFFICIENTS FOR EACH TAP

TAP NUMBER	MAXIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MAXIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION
3101	.155	15	-.425	73	.643	30	-1.373	60
3201	-.082	255	-.453	120	.197	15	-2.044	120
3202	.114	0	-.351	60	.498	15	-1.183	210
3203	.143	0	-.370	73	.574	15	-1.023	75
3204	.246	0	-.414	73	.717	15	-1.318	73
3205	.258	0	-.300	195	.754	0	-.901	120
3206	.259	0	-.315	135	.814	0	-1.143	120
3301	-.079	0	-.261	120	.098	0	-.890	225
3302	.143	0	-.295	105	.500	0	-.922	120
3303	.255	0	-.272	210	.627	0	-.809	120
3304	.285	0	-.282	210	.728	345	-.889	240
3401	-.071	270	-.267	105	.084	15	-.809	225
3402	.202	0	-.264	150	.569	0	-.569	135
3403	.279	0	-.260	150	.758	0	-.701	240
3501	-.072	270	-.284	105	.085	0	-.751	105
3502	.192	0	-.259	210	.541	15	-.723	225
3601	-.082	270	-.260	210	.101	0	-.699	225
4101	.224	180	-.269	330	.576	180	-.505	330
4102	.162	180	-.340	330	.427	180	-.667	30
4103	.153	180	-.348	315	.411	180	-.735	30
4104	.158	180	-.340	315	.418	180	-.761	315
4105	.184	180	-.326	315	.555	195	-.878	60
4106	.214	180	-.316	45	.733	180	-.697	315
4107	.074	180	-.317	45	.431	180	-.806	315
4201	.158	195	-.348	30	.473	180	-.661	60
4202	.144	180	-.362	45	.475	165	-.604	60
4203	.137	180	-.353	45	.400	195	-.702	60
4204	.141	180	-.346	60	.426	165	-.767	315
4205	.171	180	-.377	73	.512	165	-.884	315
4206	.209	180	-.314	45	.673	180	-.697	315
4207	.070	180	-.326	45	.415	180	-1.284	60
4301	.131	180	-.371	330	.521	180	-.746	330
4302	.136	180	-.373	45	.444	180	-.740	60
4303	.121	180	-.382	60	.402	180	-.872	60
4304	.124	180	-.376	60	.394	165	-.939	330
4305	.152	180	-.449	73	.499	165	-1.037	315
4306	.201	180	-.320	60	.635	150	-.897	315
4307	.024	180	-.318	60	.365	195	-1.381	315
4401	.158	150	-.432	77	.581	150	-1.109	77
4402	.219	135	-.351	60	.768	165	-.834	315
4403	.240	135	-.406	77	.784	150	-1.036	315
4404	.085	135	-.398	73	.411	150	-.880	300

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2

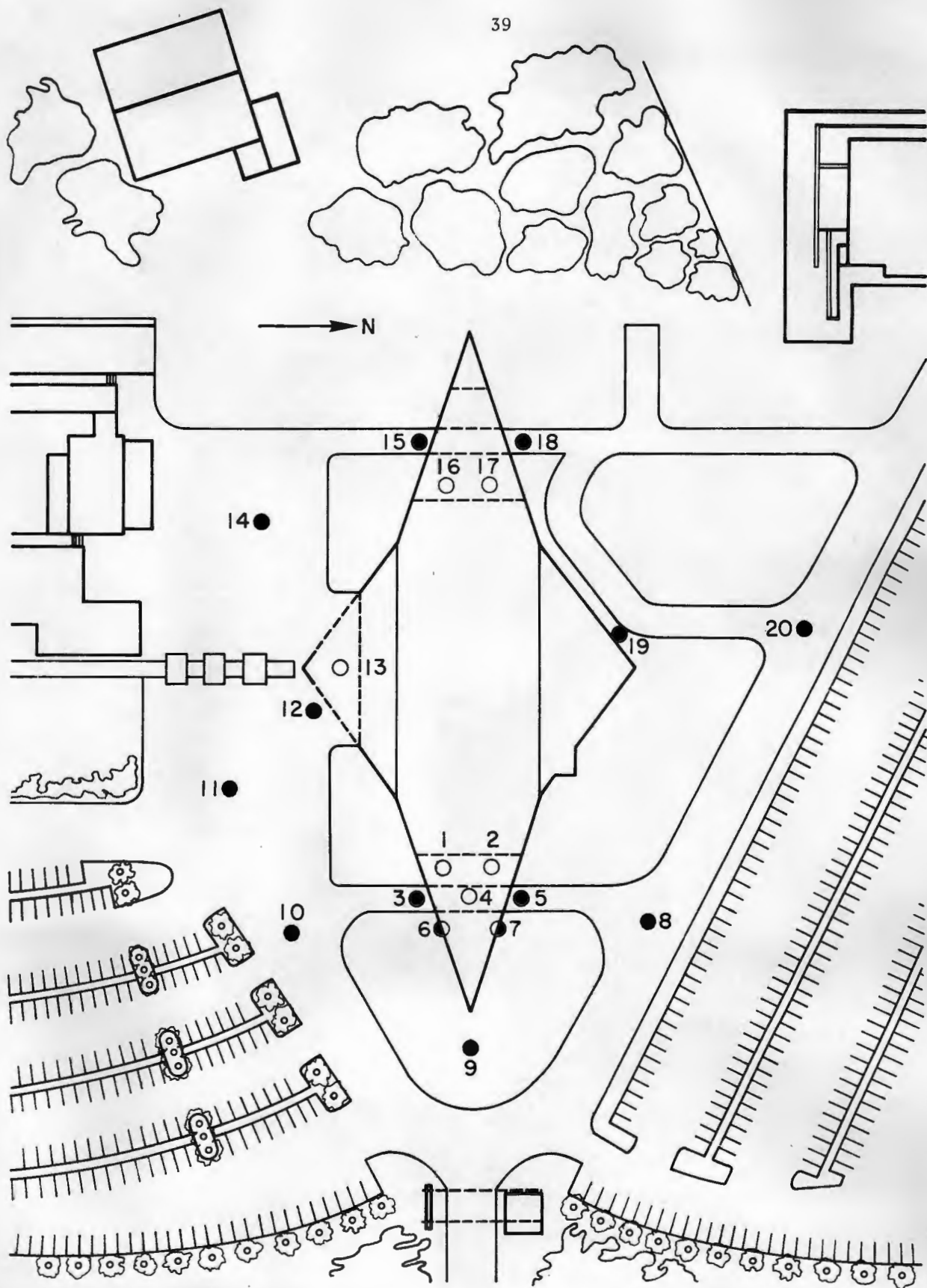
TABLE 6 (continued). LARGEST AND SMALLEST PRESSURE COEFFICIENTS FOR EACH TAP

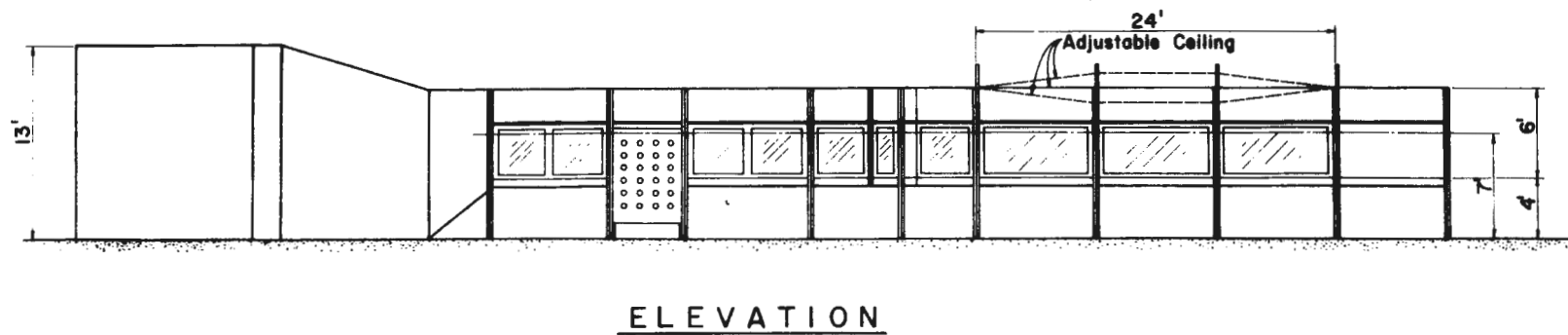
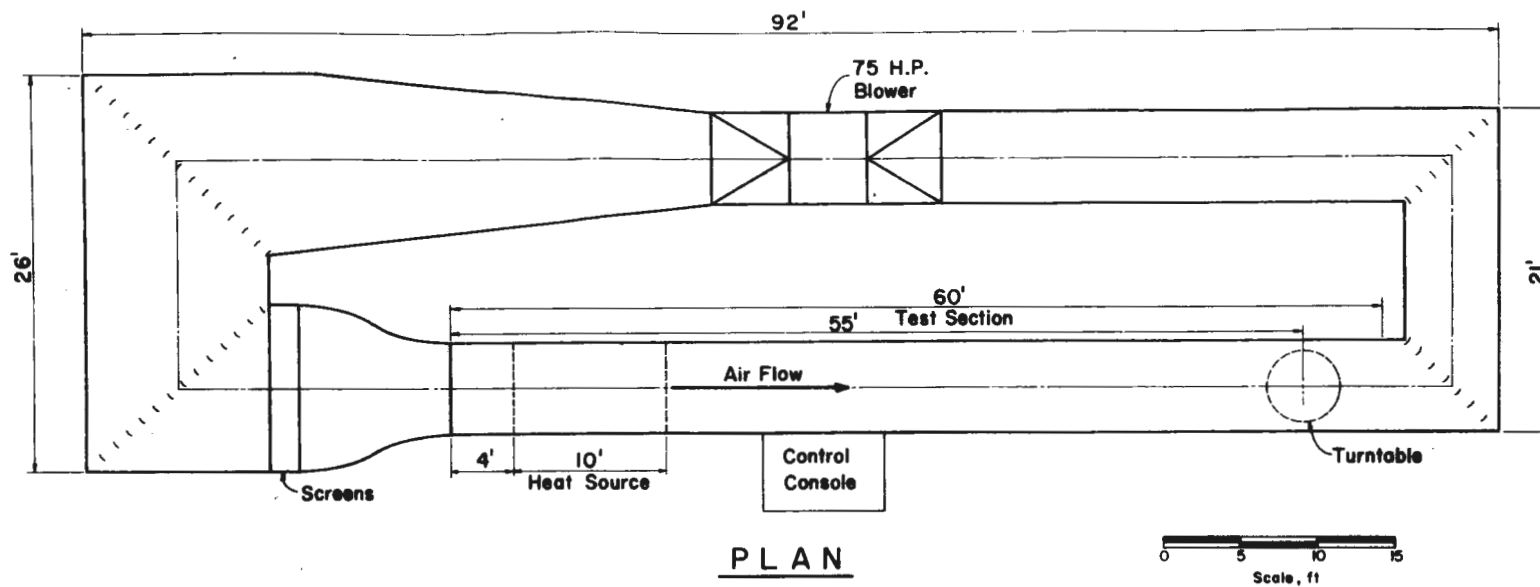
TAP NUMBER	MAXIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MAXIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION
4501	.113	195	-.443	120	.523	180	-1.511	60
4502	.111	180	-.382	45	.494	195	-.877	60
4503	.099	180	-.393	60	.424	195	-.768	60
4504	.069	165	-.456	73	.315	195	-1.067	73
4505	.070	150	-.548	77	.354	165	-2.038	330
4506	.115	120	-.472	77	.490	135	-1.333	315
4507	.262	120	-.562	81	.898	135	-1.727	81
4508	.300	120	-.624	77	.818	135	-1.628	315
4509	.203	135	-.469	75	.643	120	-1.176	315
4601	.066	195	-.483	60	.484	180	-1.547	60
4602	.086	165	-.412	60	.377	180	-1.162	60
4603	.048	165	-.462	60	.299	195	-1.330	330
4604	-.007	120	-.620	75	.203	165	-2.002	330
4605	-.025	105	-.478	75	.130	105	-2.188	315
4701	.038	195	-.528	60	.494	180	-1.519	60
4702	.055	165	-.472	60	.338	165	-.985	60
4703	.027	165	-.503	60	.294	165	-1.333	330
4704	-.028	120	-.706	73	.145	165	-1.761	315
4705	-.038	105	-.512	73	.122	300	-1.648	315
4801	-.015	195	-.550	60	.362	180	-1.631	330
4802	.017	165	-.513	60	.302	180	-1.077	345
4803	-.029	105	-.709	73	.155	180	-1.785	77
4804	-.038	105	-.583	73	.141	300	-1.807	315
4901	-.044	210	-.562	60	.328	180	-1.642	345
4902	-.032	105	-.538	60	.180	165	-2.296	73
4903	-.046	105	-.664	73	.076	105	-1.422	73
4904	-.063	195	-.554	60	.229	195	-2.009	73
4905	-.029	105	-.849	75	.085	120	-2.100	75
4906	-.088	225	-.583	60	.322	165	-1.849	73
4907	-.046	105	-.789	73	.111	105	-1.784	81
4908	-.103	90	-.589	73	.138	180	-1.926	77
4909	-.027	105	-.877	73	.114	105	-2.320	73
4910	-.114	240	-.676	73	.158	165	-1.941	79
4911	-.059	105	-.817	75	.104	105	-2.148	75
4912	-.130	285	-.751	75	.118	90	-2.522	73
5101	-.005	180	-.413	30	.358	180	-1.082	330
5102	.052	180	-.404	30	.318	195	-.837	315
5103	.072	180	-.396	30	.314	180	-.834	315
5104	.110	180	-.379	30	.359	195	-.682	45
5201	-.015	195	-.433	30	.310	180	-1.102	45
5202	.059	195	-.406	30	.271	180	-1.036	60
5301	.013	195	-.428	30	.271	165	-1.192	60

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2

TABLE 6 (continued). LARGEST AND SMALLEST PRESSURE COEFFICIENTS FOR EACH TAP

TAP NUMBER	MAXIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM MEAN PRESSURE COEFFICIENT	WIND DIRECTION	MAXIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION	MINIMUM PEAK PRESSURE COEFFICIENT	WIND DIRECTION
5302	.077	195	-.397	30	.309	210	-.857	90
5401	.037	195	-.410	30	.274	165	-1.142	60
5402	.085	195	-.393	330	.380	165	-.989	60
5501	.049	195	-.413	330	.327	165	-1.232	60
5502	.065	195	-.424	105	.401	180	-1.402	60
5503	.078	195	-.489	105	.428	165	-1.383	60
6101	.129	180	-.330	15	.434	165	-.784	300
6102	.139	180	-.350	15	.508	180	-.987	315
6103	.145	165	-.368	15	.580	165	-1.093	225
6201	.139	180	-.348	270	.420	150	-.721	315
6202	.171	165	-.342	270	.667	150	-.557	30
6203	.135	165	-.370	30	.547	165	-.728	270
6301	.131	165	-.491	270	.450	165	-1.089	255
6302	.169	150	-.357	15	.626	165	-.637	45
6303	.135	165	-.374	30	.593	150	-.663	300
6401	.166	165	-.381	15	.566	150	-.614	15
6402	.158	135	-.375	45	.617	150	-.594	45
6403	.134	165	-.390	45	.647	150	-.711	300
6501	.186	135	-.371	30	.571	135	-1.198	30
6502	.181	135	-.388	45	.580	135	-.603	45
6503	.141	165	-.407	45	.580	165	-.986	300
6601	.087	120	-.711	45	.373	135	-2.196	60
6602	.182	150	-.416	45	.679	165	-.764	60
6603	.128	165	-.421	45	.620	165	-.876	60
6701	.036	105	-.445	45	.271	120	-.933	60
6702	.197	150	-.433	45	.732	135	-.899	60
6703	.094	180	-.473	60	.602	180	-1.119	73
6801	.186	135	-.485	60	.647	180	-1.321	60
6802	.175	135	-.523	60	.641	135	-1.253	60
6803	.216	135	-.516	60	.740	135	-1.123	75
6804	.065	165	-.540	60	.622	150	-1.856	73
6901	.080	105	-.488	60	.450	105	-2.161	73
6902	.157	105	-.477	60	.627	105	-2.146	75
6903	.212	105	-.456	60	.814	120	-1.800	73
6904	.235	105	-.471	75	.795	120	-1.303	75
6905	.186	120	-.616	75	.717	120	-1.862	81
7101	.114	180	-.321	15	.358	180	-.622	105
7102	.133	180	-.309	15	.451	165	-.697	120
7103	.160	180	-.478	90	.574	150	-.905	90
8101	.116	105	-.553	180	.627	105	-1.318	195
8102	.123	79	-.531	0	.619	90	-1.471	30
8103	-0.000	90	-.461	15	.247	90	-1.147	30





INDUSTRIAL AERODYNAMICS WIND TUNNEL
 FLUID DYNAMICS & DIFFUSION LABORATORY
 COLORADO STATE UNIVERSITY

Figure 2. Industrial Aerodynamics Wind Tunnel

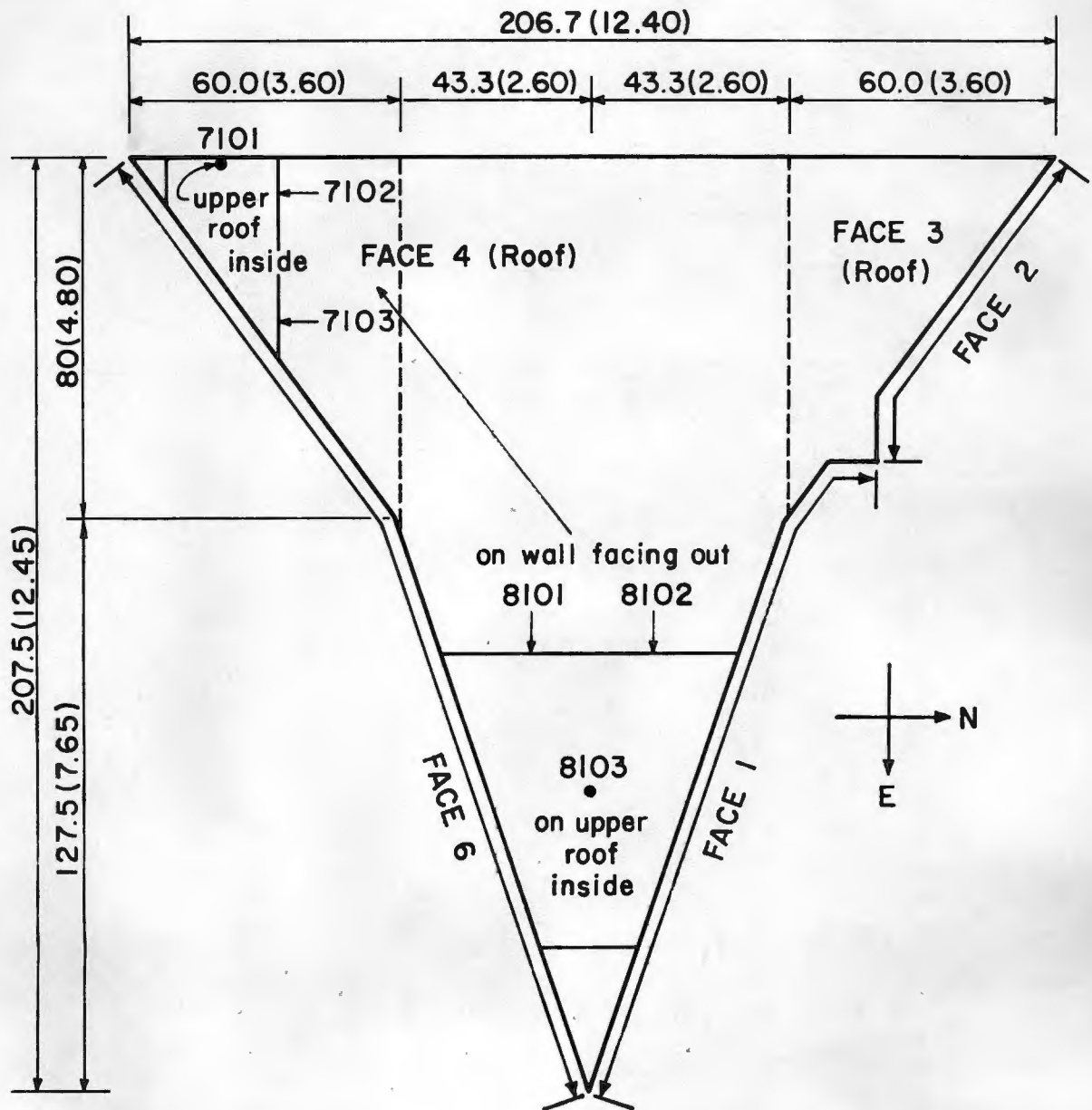
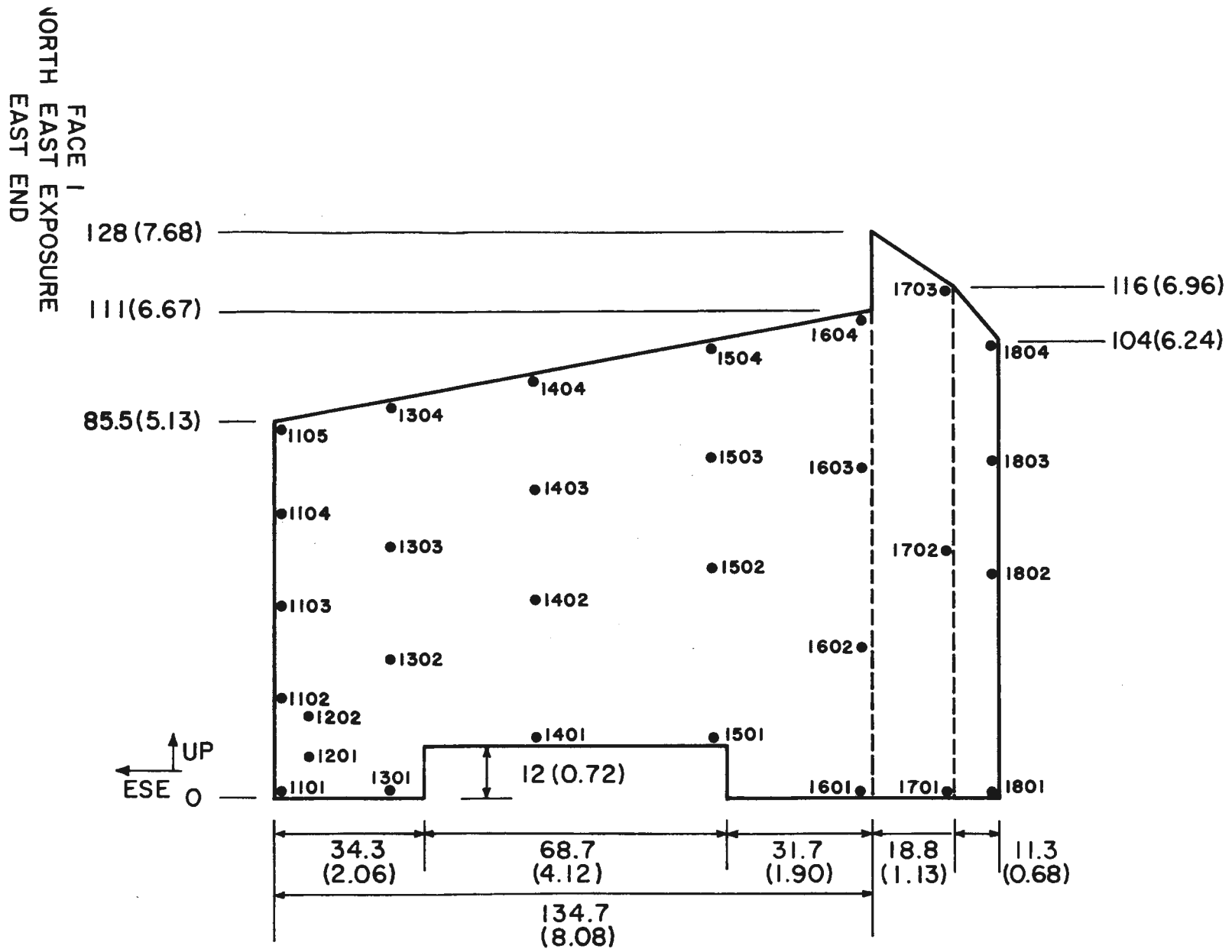
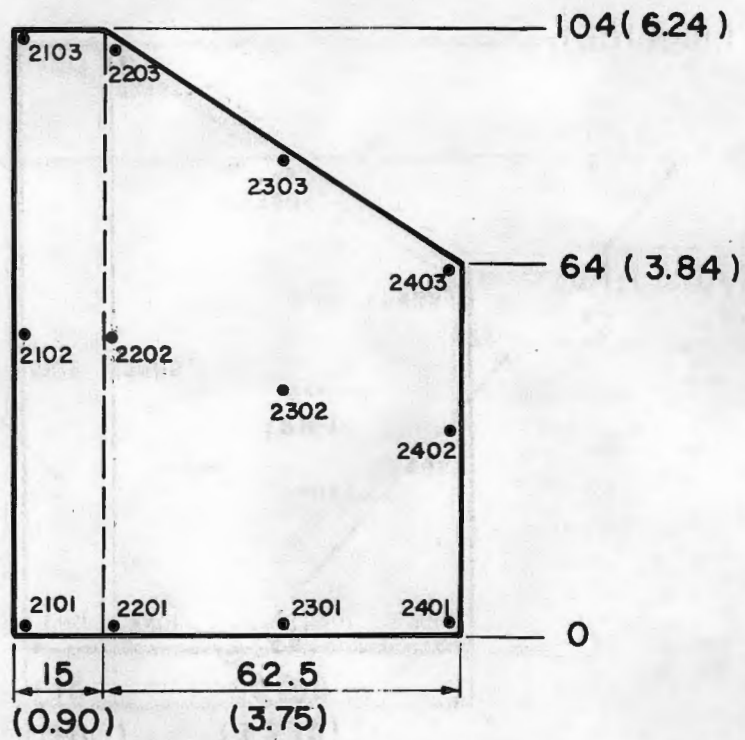


Figure 3a. Pressure Tap Locations

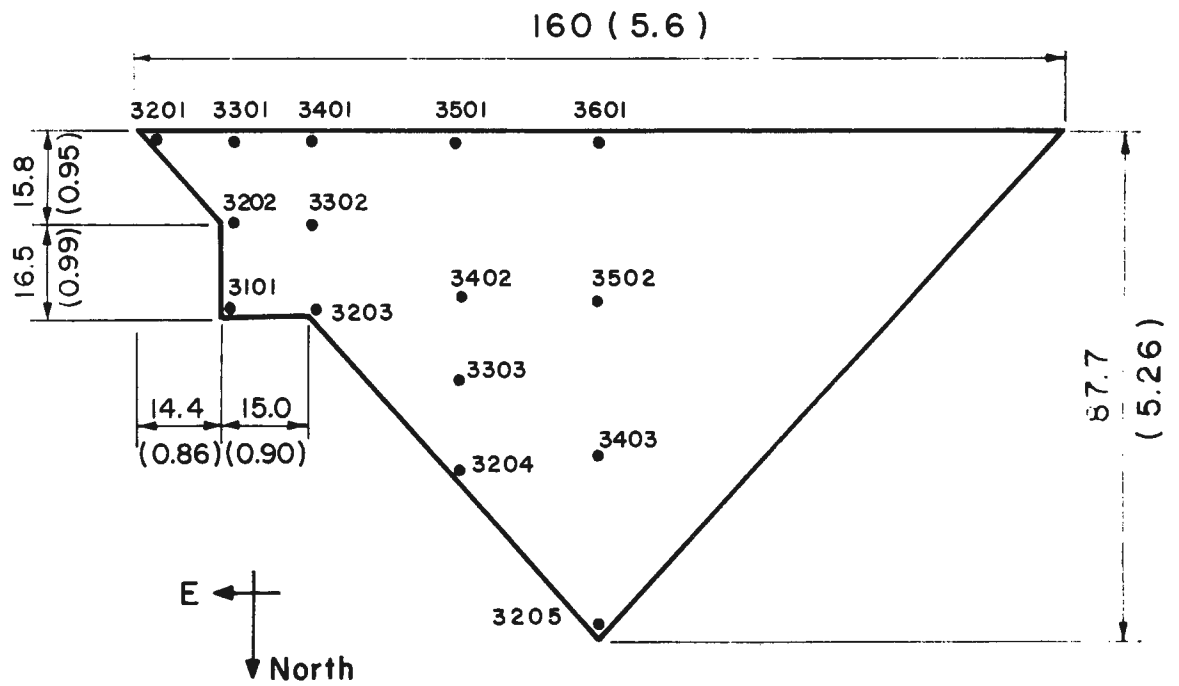
Figure 3b. Pressure Tap Locations





Face 2
(North East Exposure)

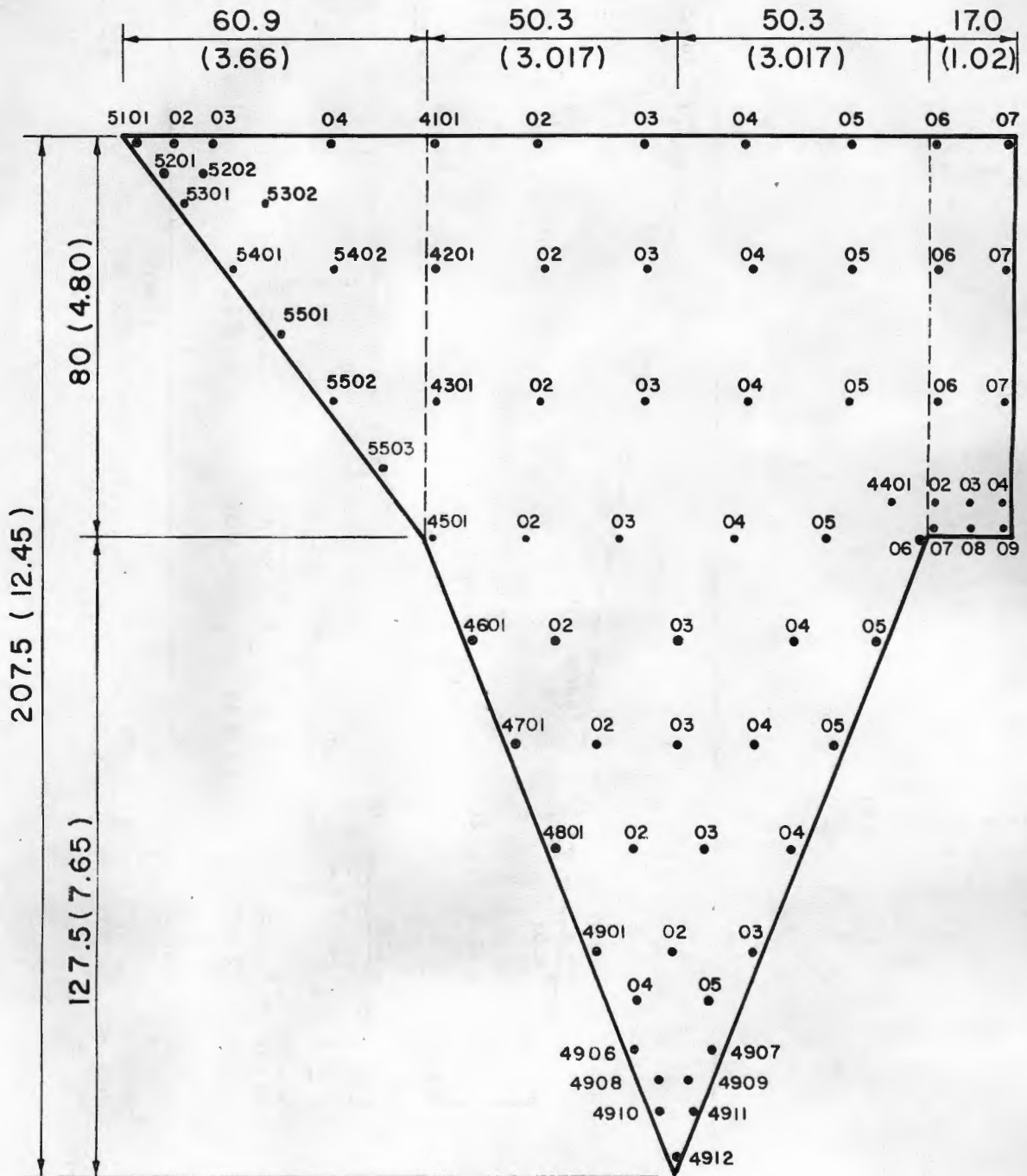
Figure 3c. Pressure Tap Locations



Dimensions on Face

Face 3
(North Roof)

Figure 3d. Pressure Tap Locations



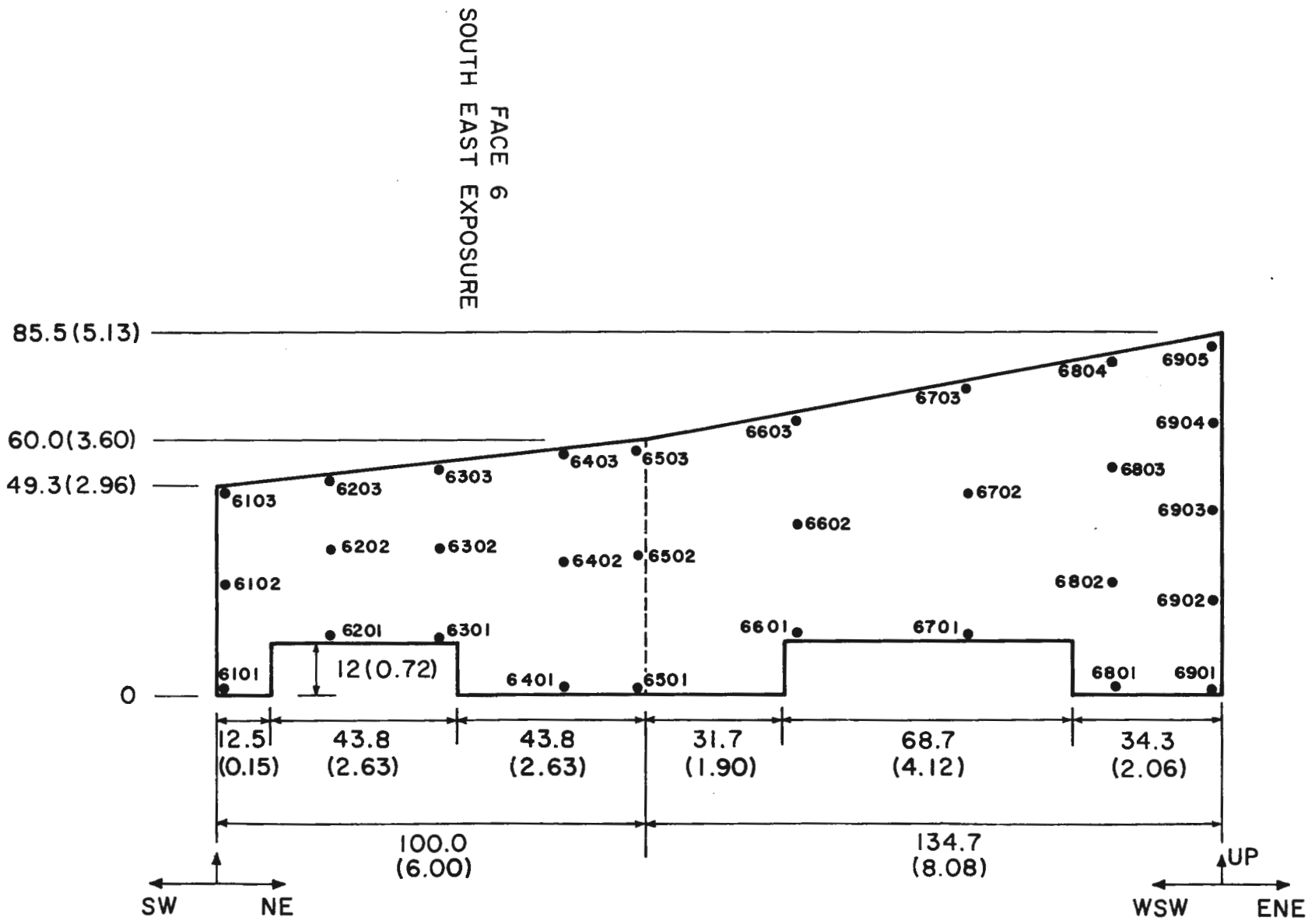
Dimensions on Face

Face 4

South Roof
East End

Figure 3e. Pressure Tap Locations

Figure 3f. Pressure Tap Locations



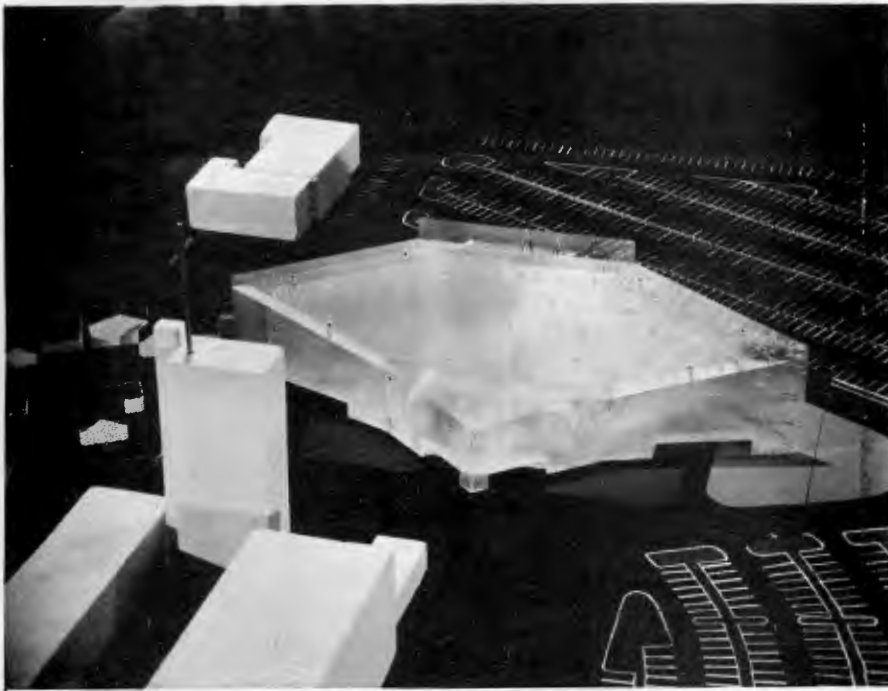


Figure 4. Completed Model

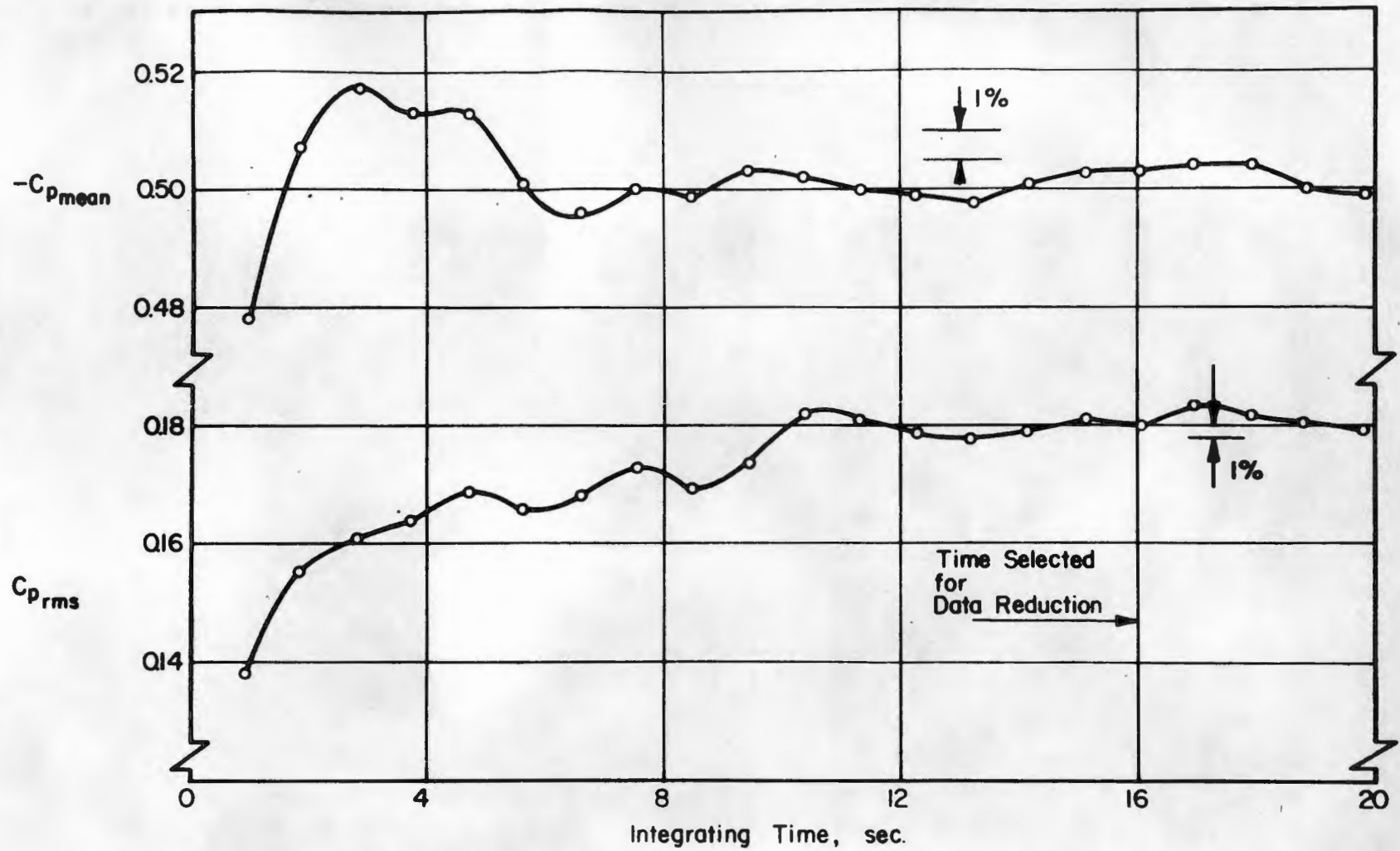


Figure 5. Data Sampling Time Verification

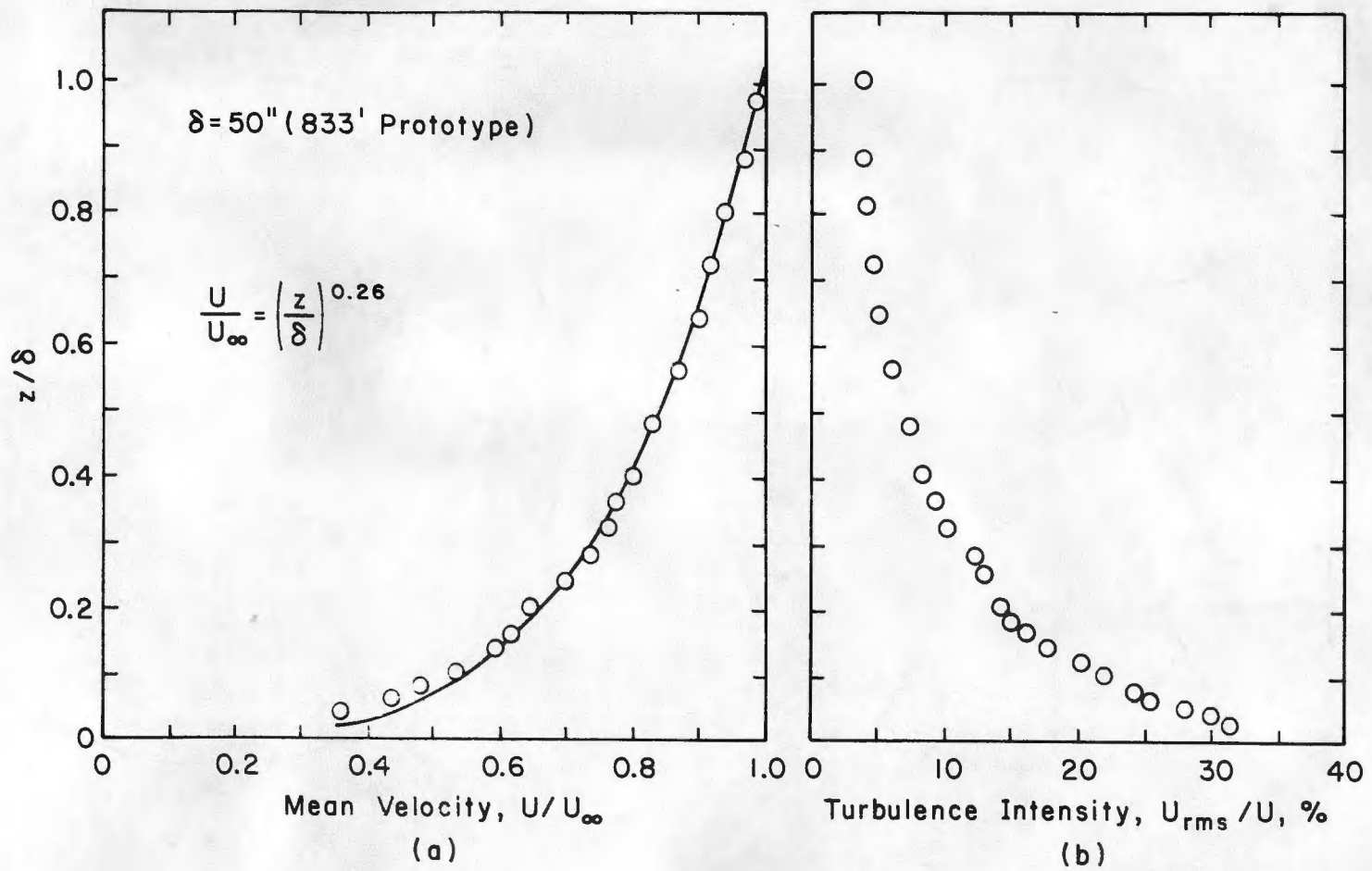


Figure 6. Velocity and Turbulence Profiles Approaching the Model

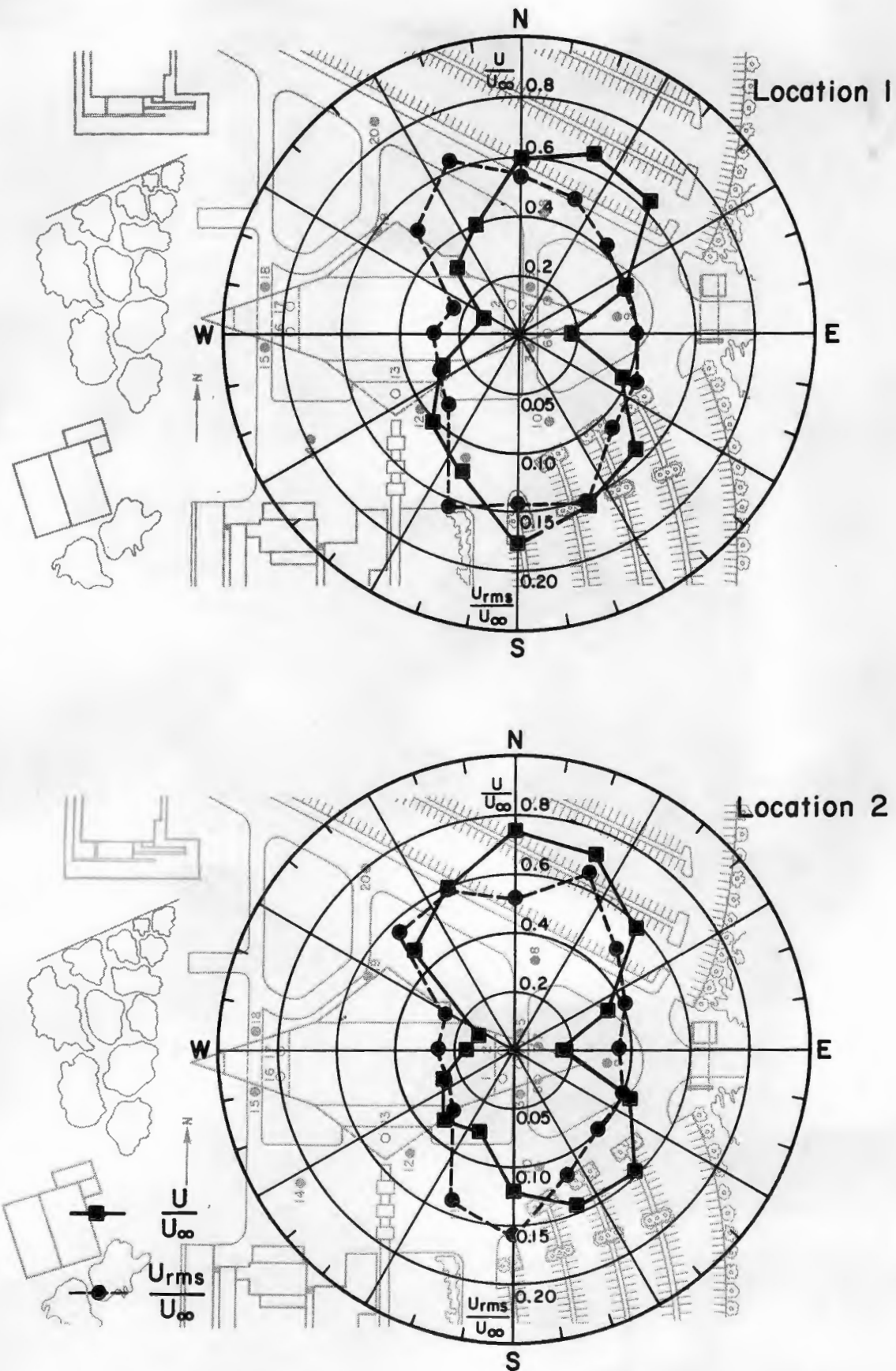


Figure 7. Mean Velocity and Turbulence Intensity at Sites 1 and 2

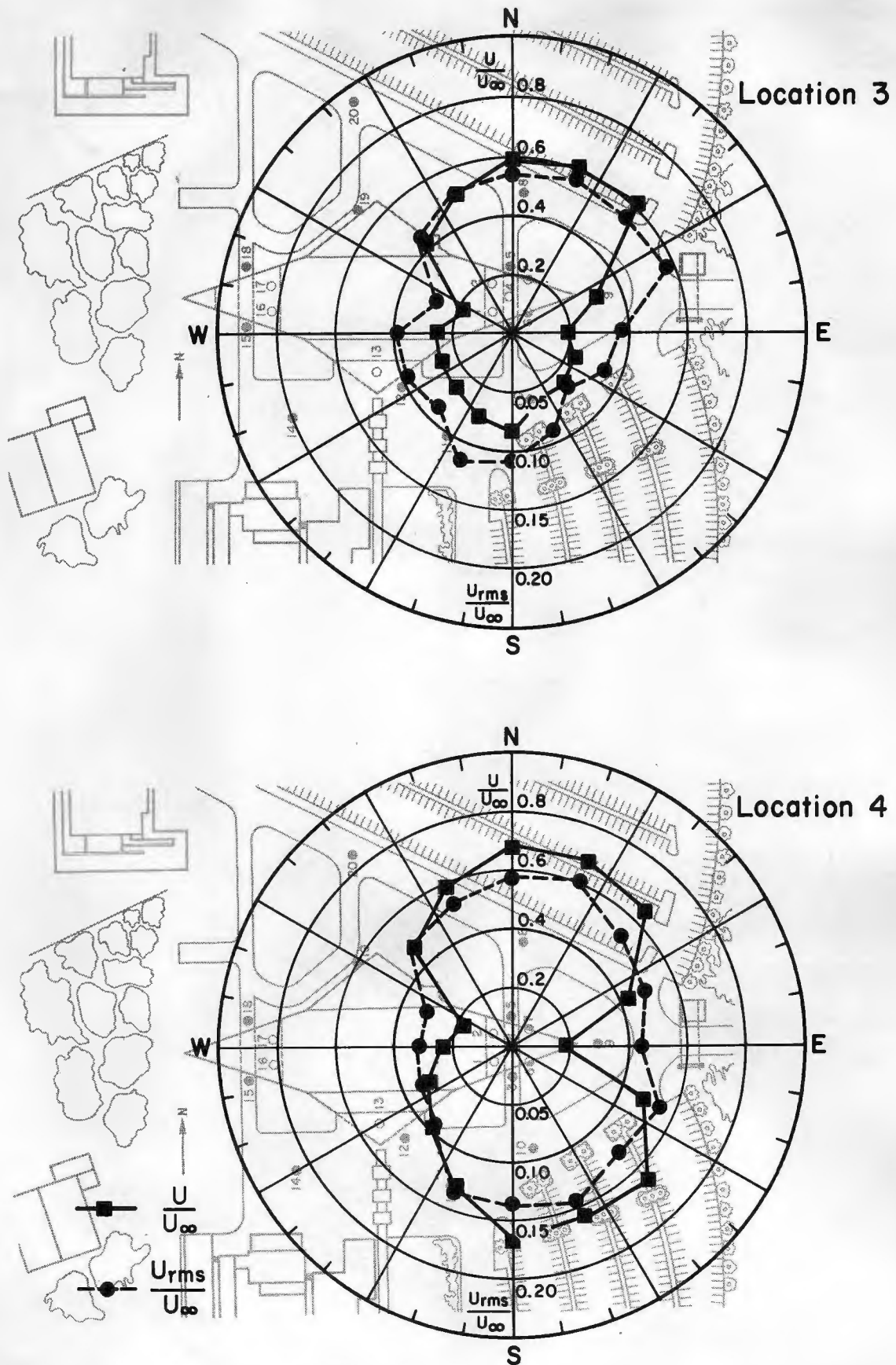


Figure 8. Mean Velocity and Turbulence Intensity at Sites 3 and 4

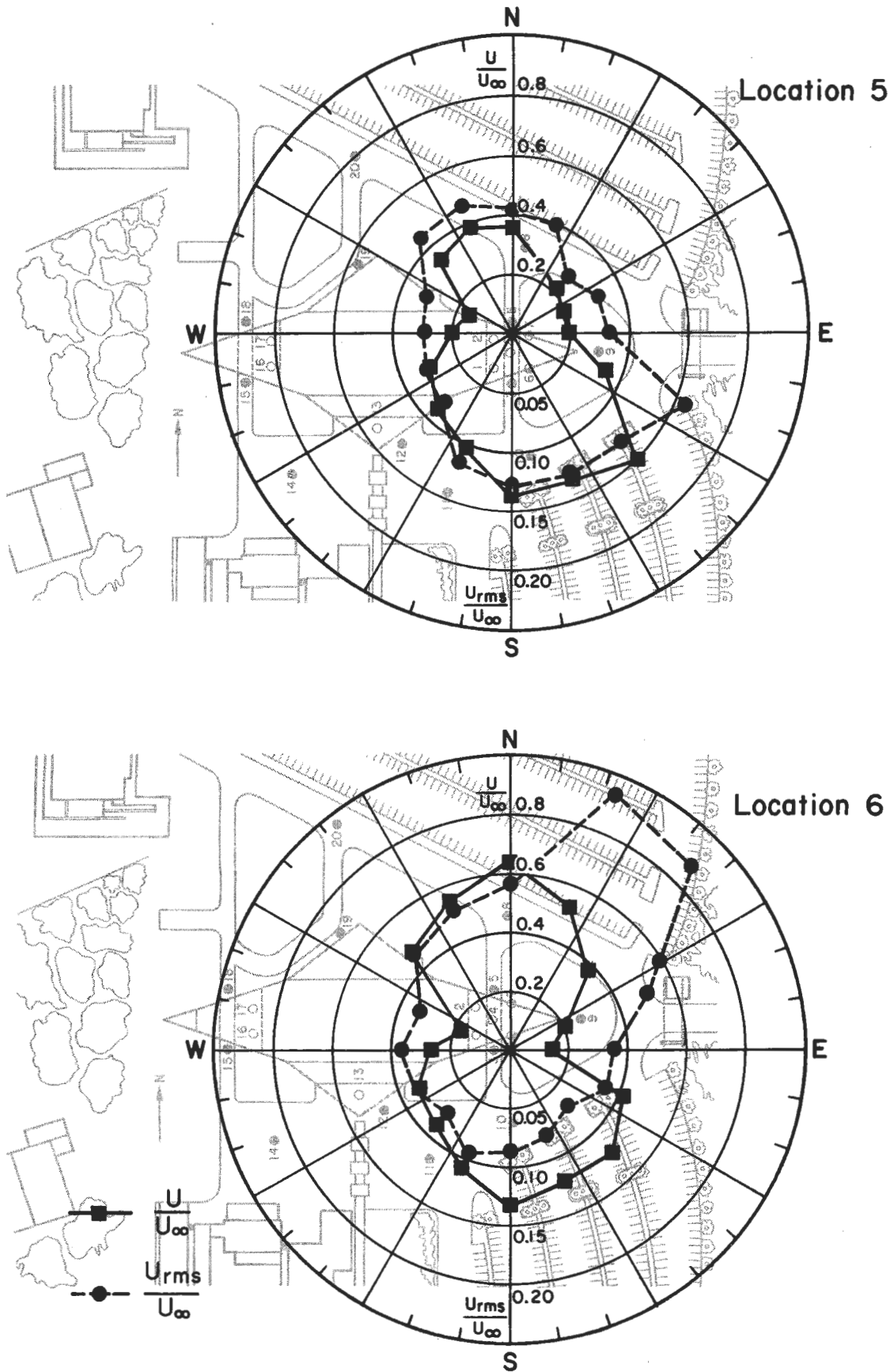


Figure 9. Mean Velocity and Turbulence Intensity at Sites 5 and 6

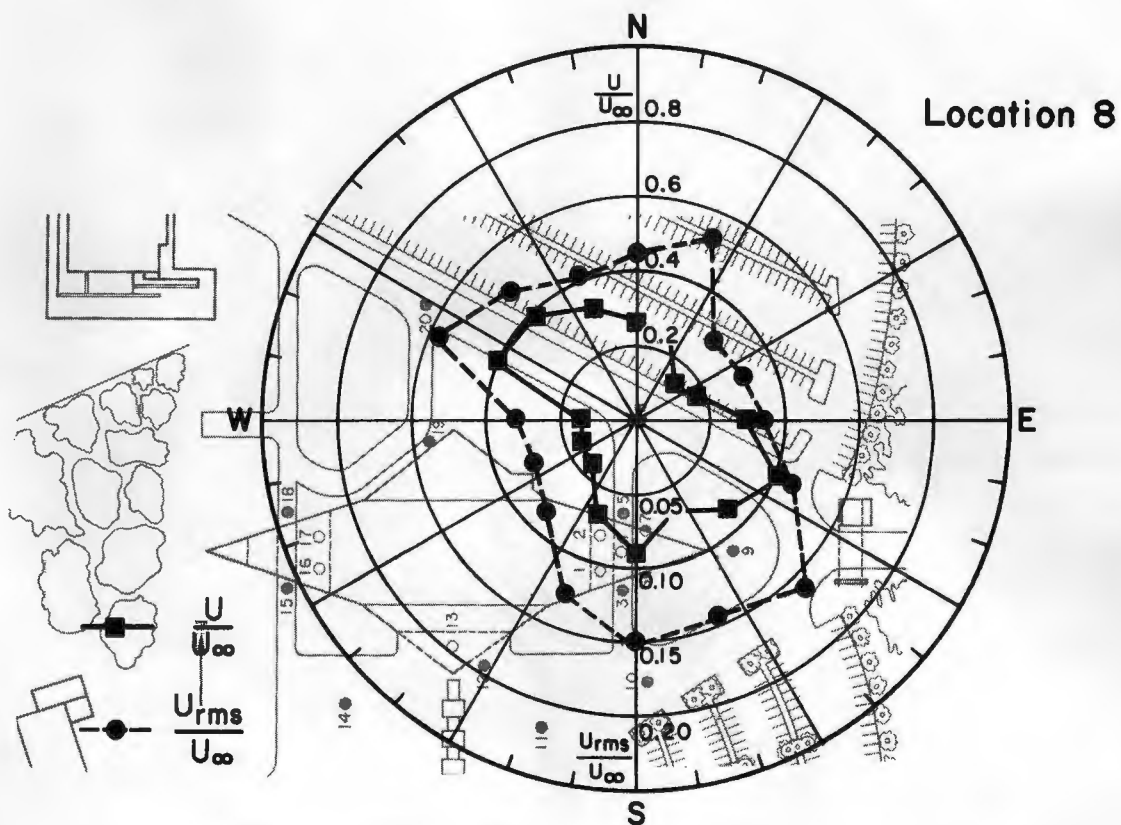
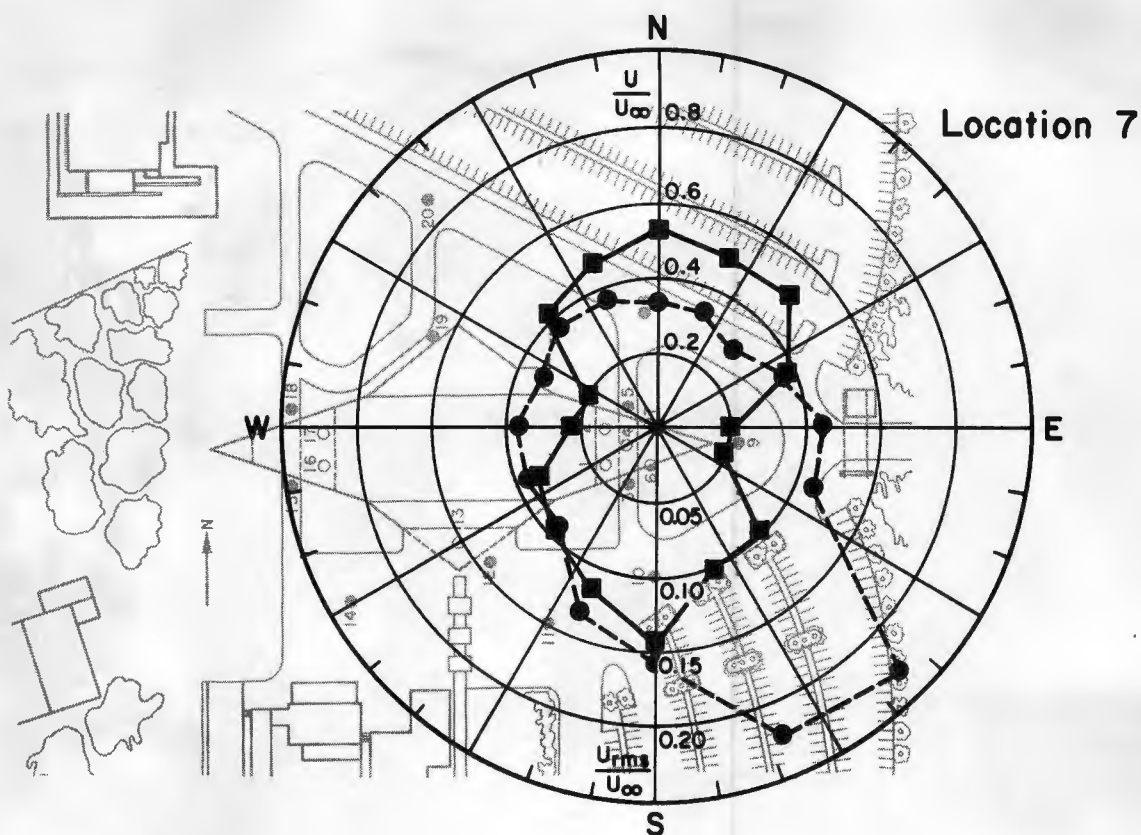


Figure 10. Mean Velocity and Turbulence Intensity at Sites 7 and 8

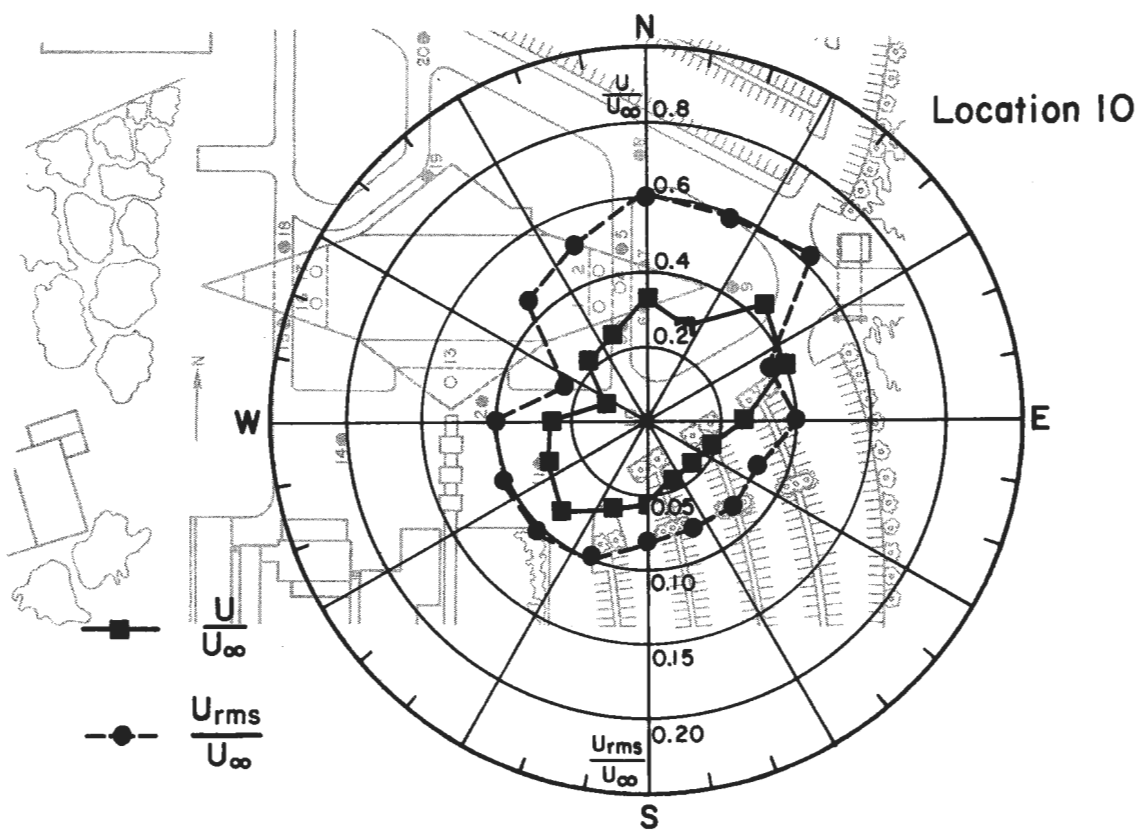
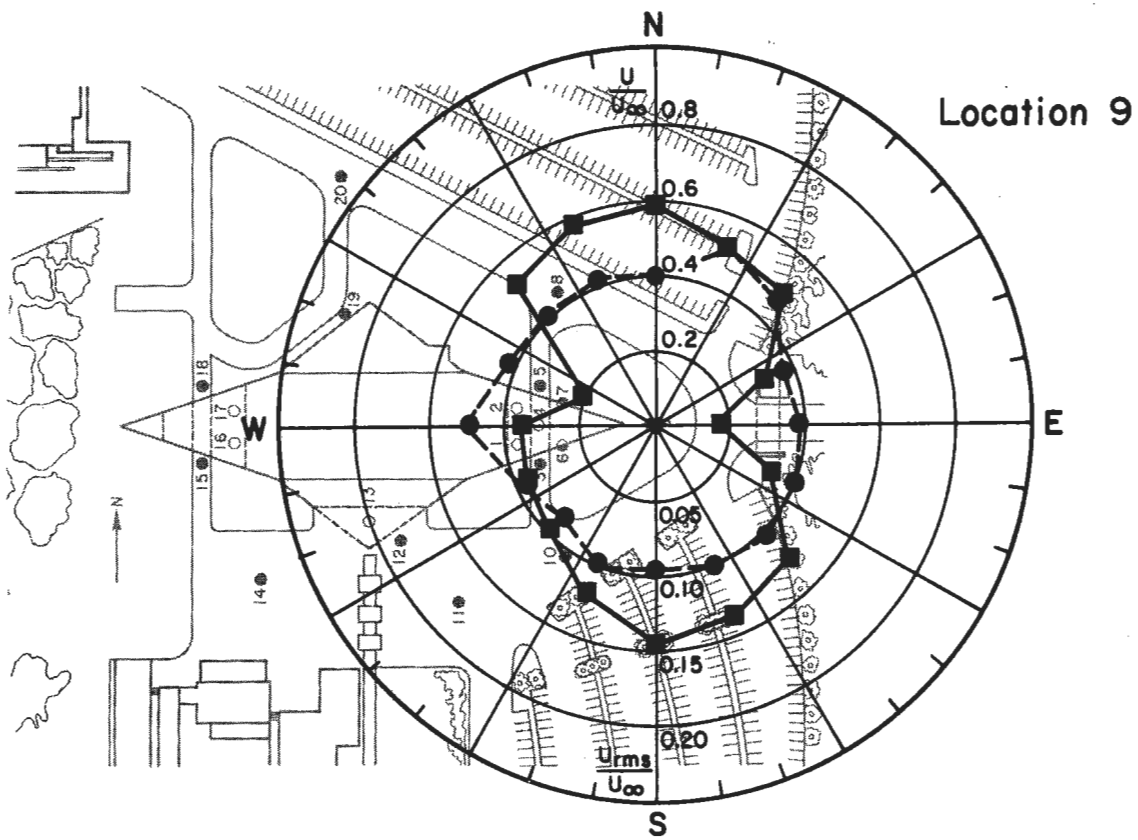


Figure 11. Mean Velocity and Turbulence Intensity at Sites 9 and 10

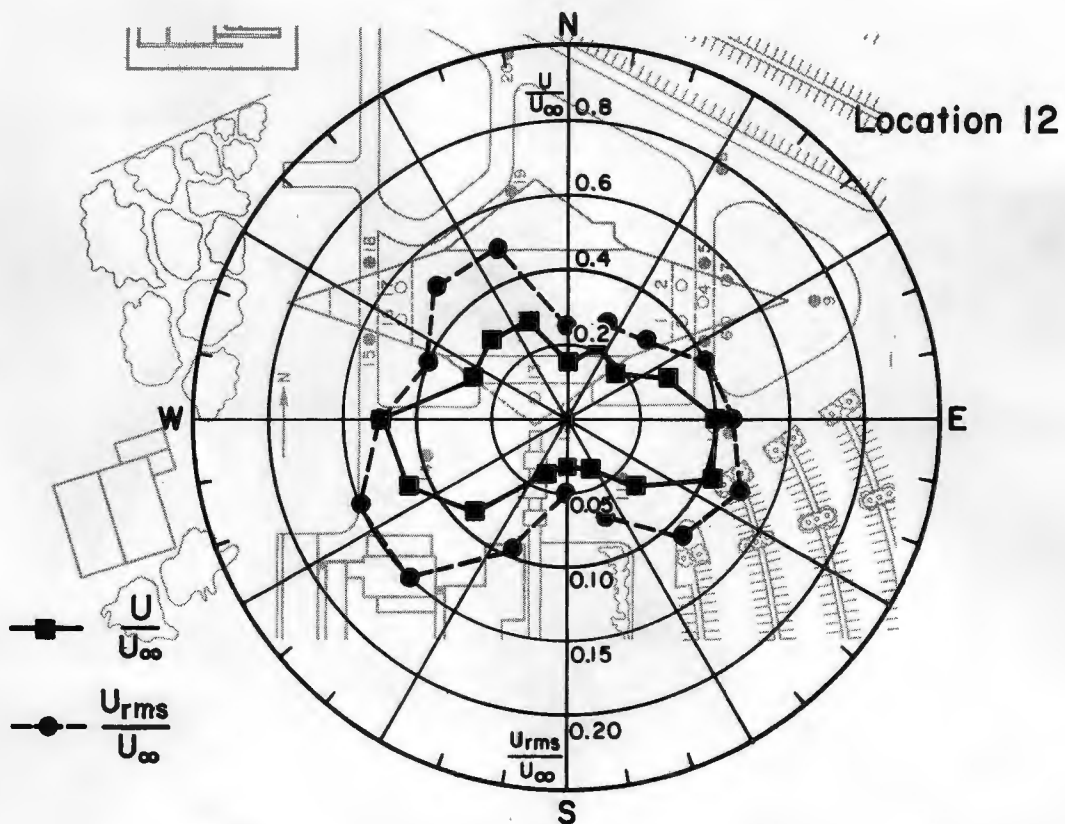
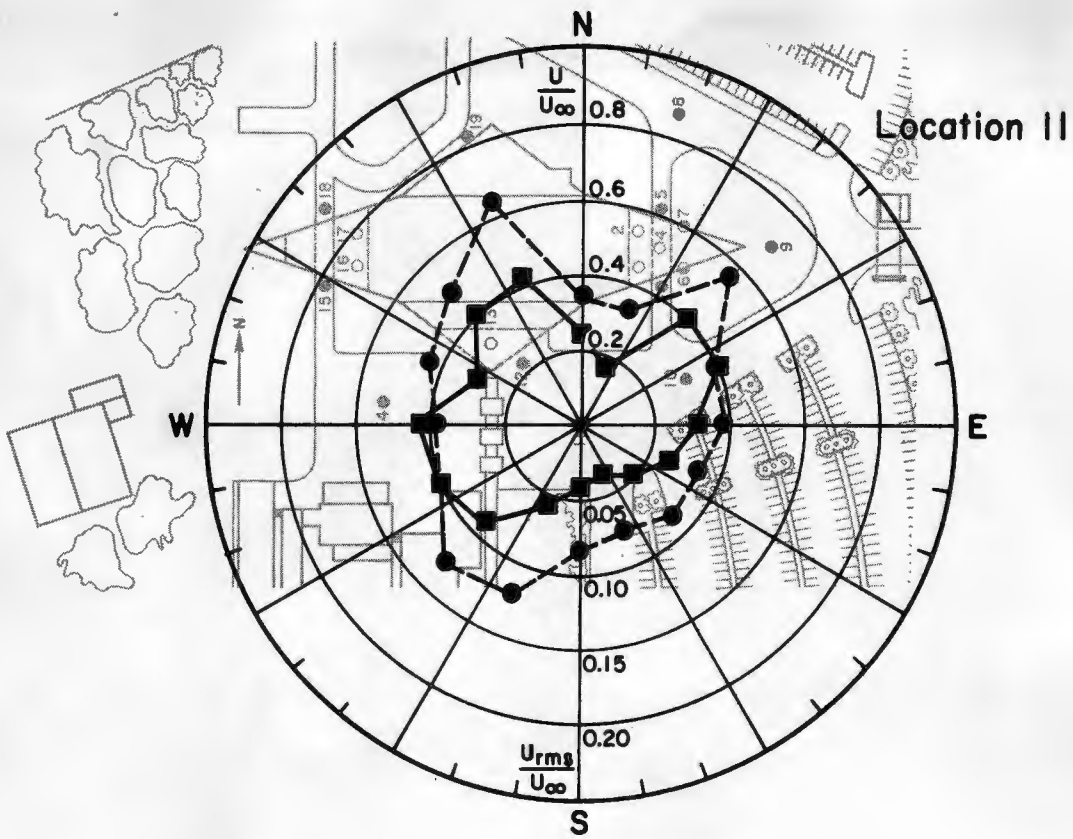


Figure 12. Mean Velocity and Turbulence Intensity at Sites 11 and 12

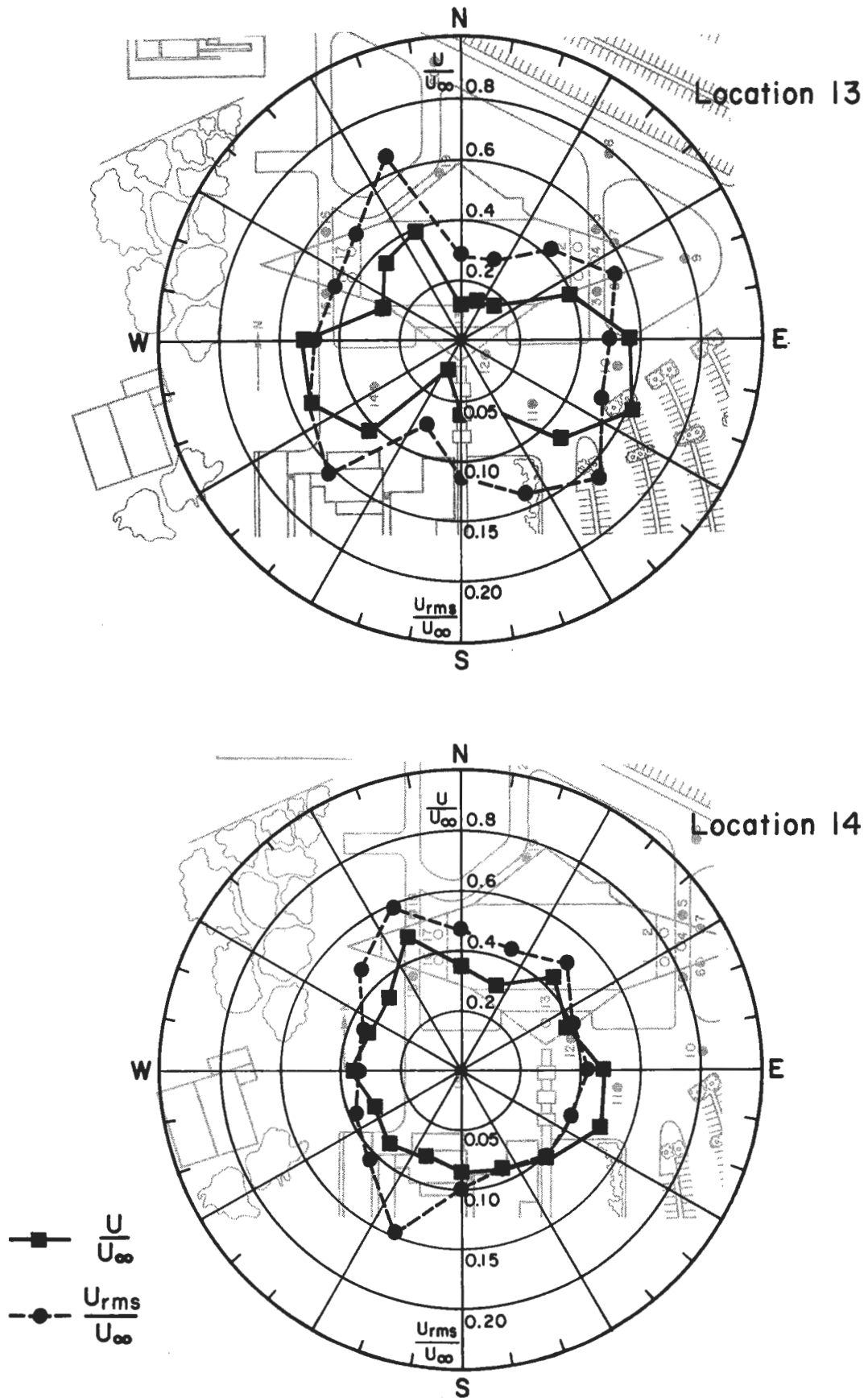


Figure 13. Mean Velocity and Turbulence Intensity at Sites 13 and 14

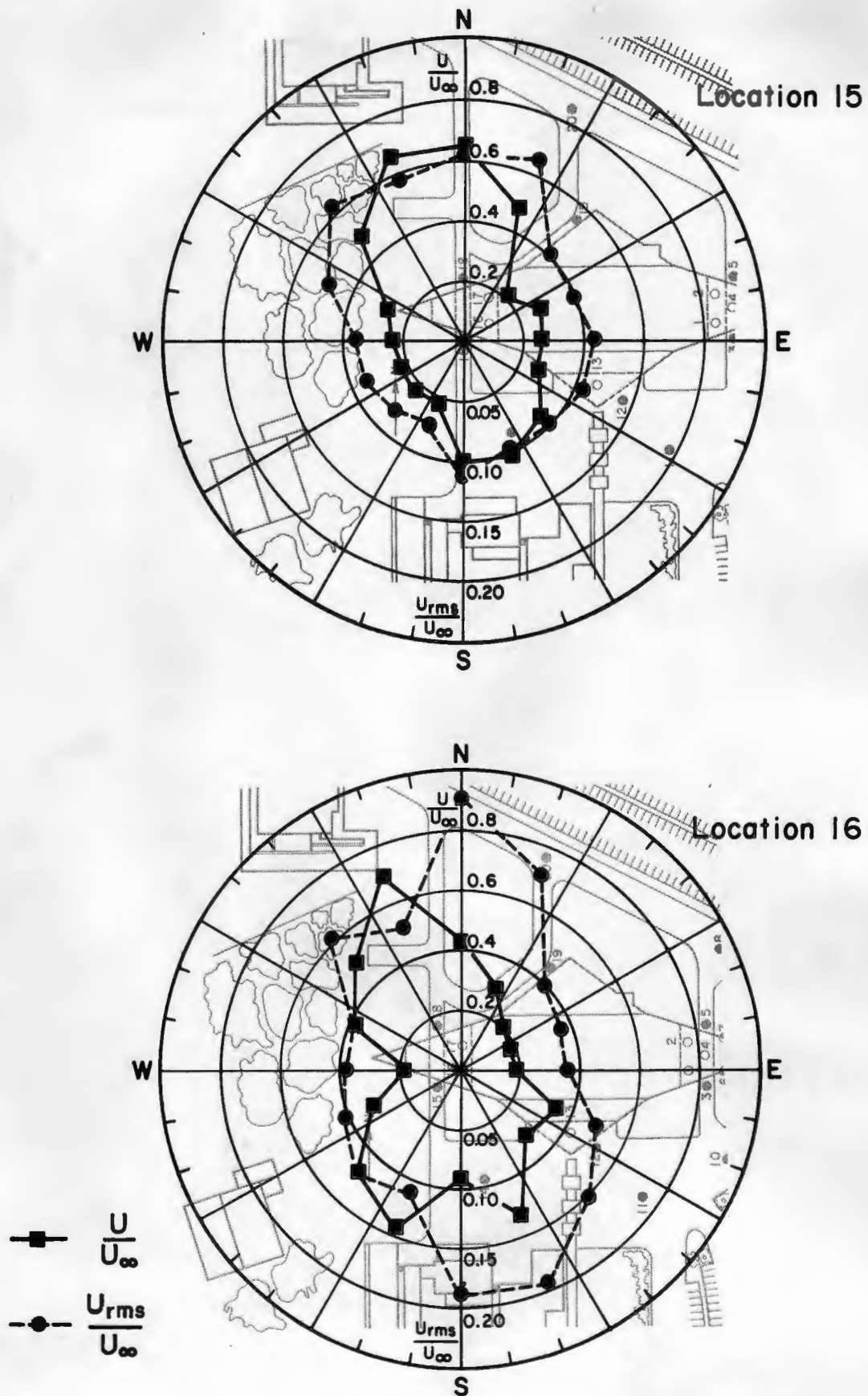


Figure 14. Mean Velocity and Turbulence Intensity at Sites 15 and 16

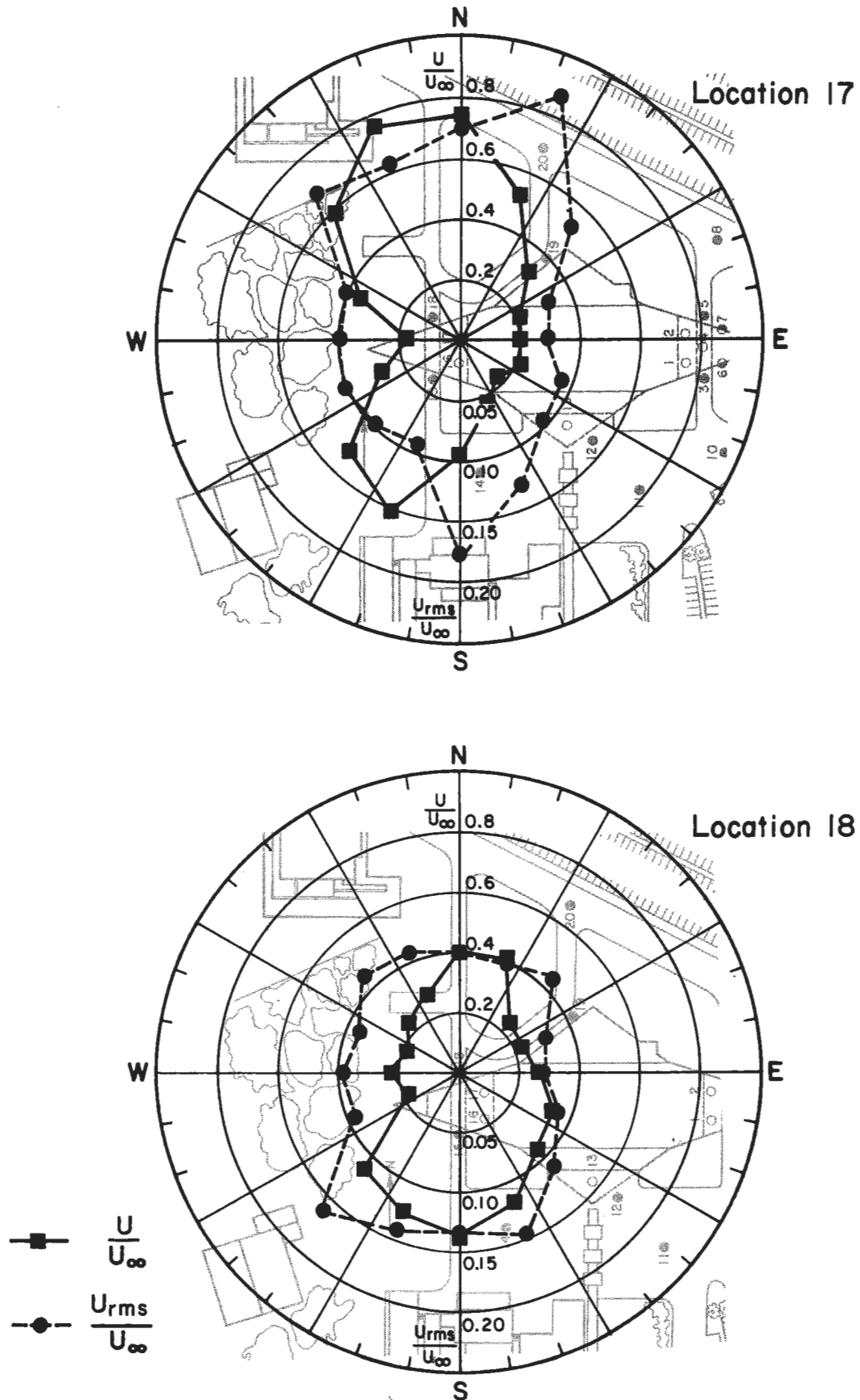


Figure 15. Mean Velocity and Turbulence Intensity at Sites 17 and 18

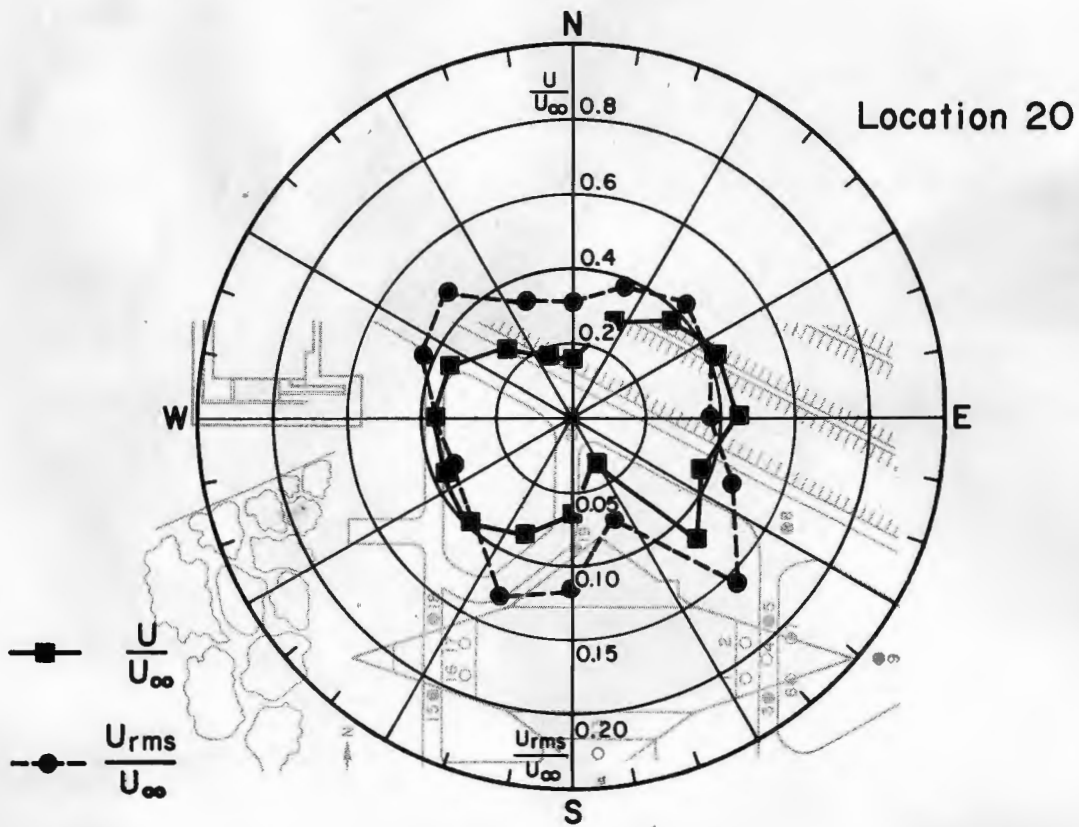
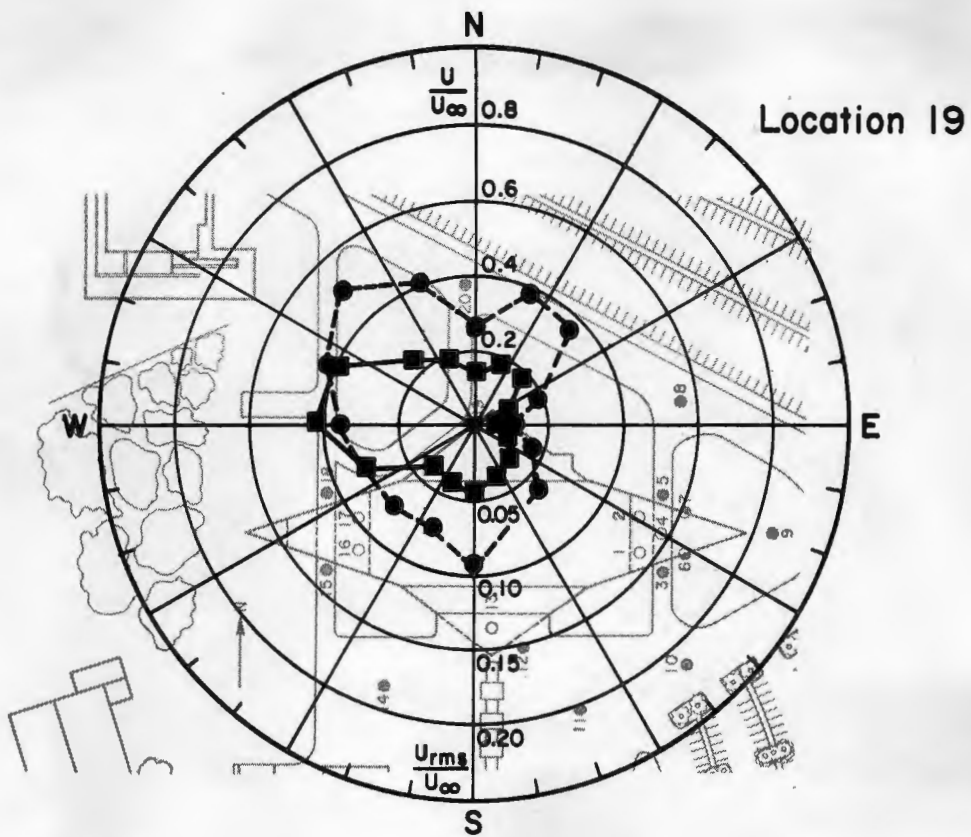


Figure 16. Mean Velocity and Turbulence Intensity at Sites 19 and 20

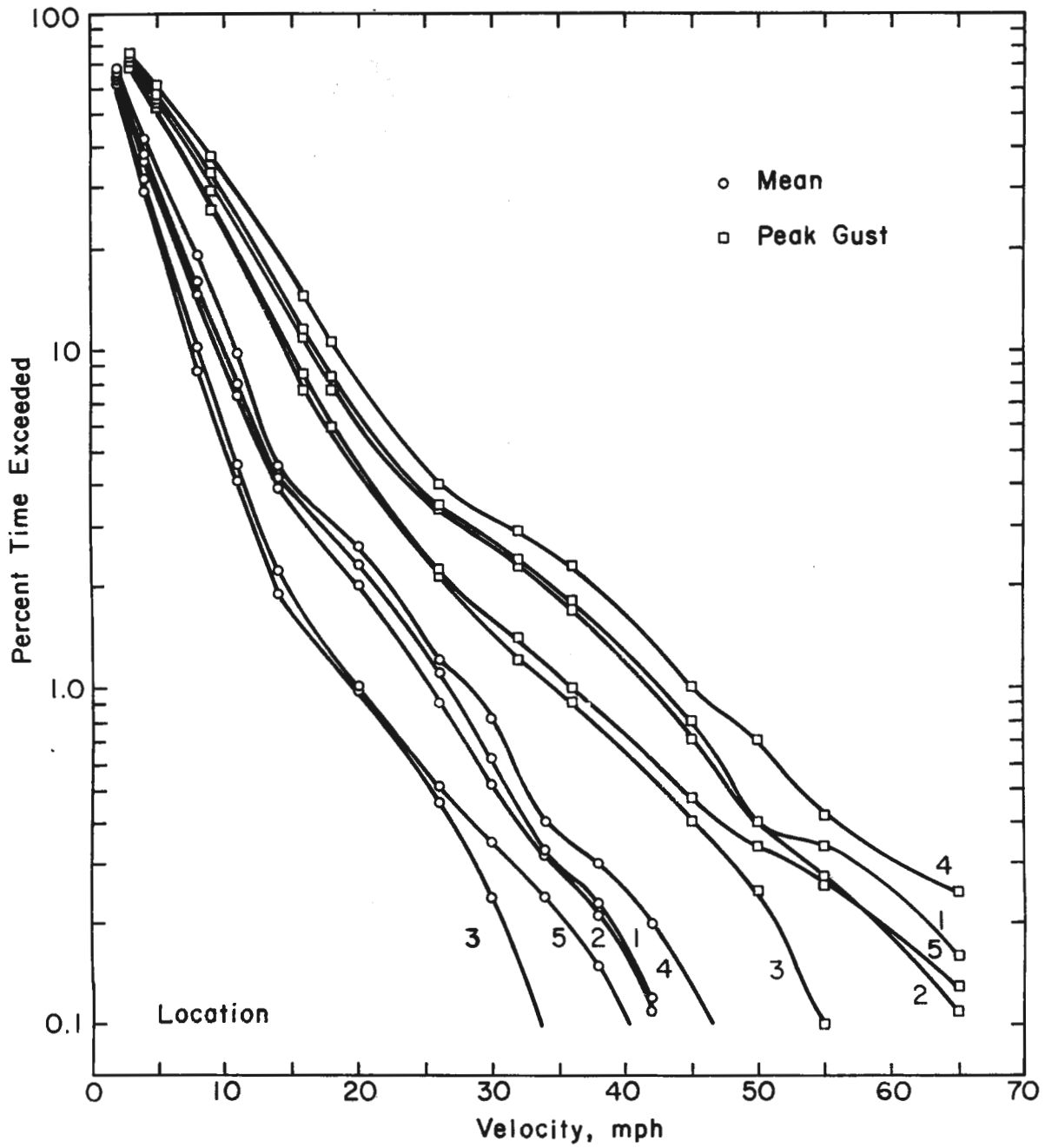


Figure 17. Wind Velocity Probabilities for Sites 1-5

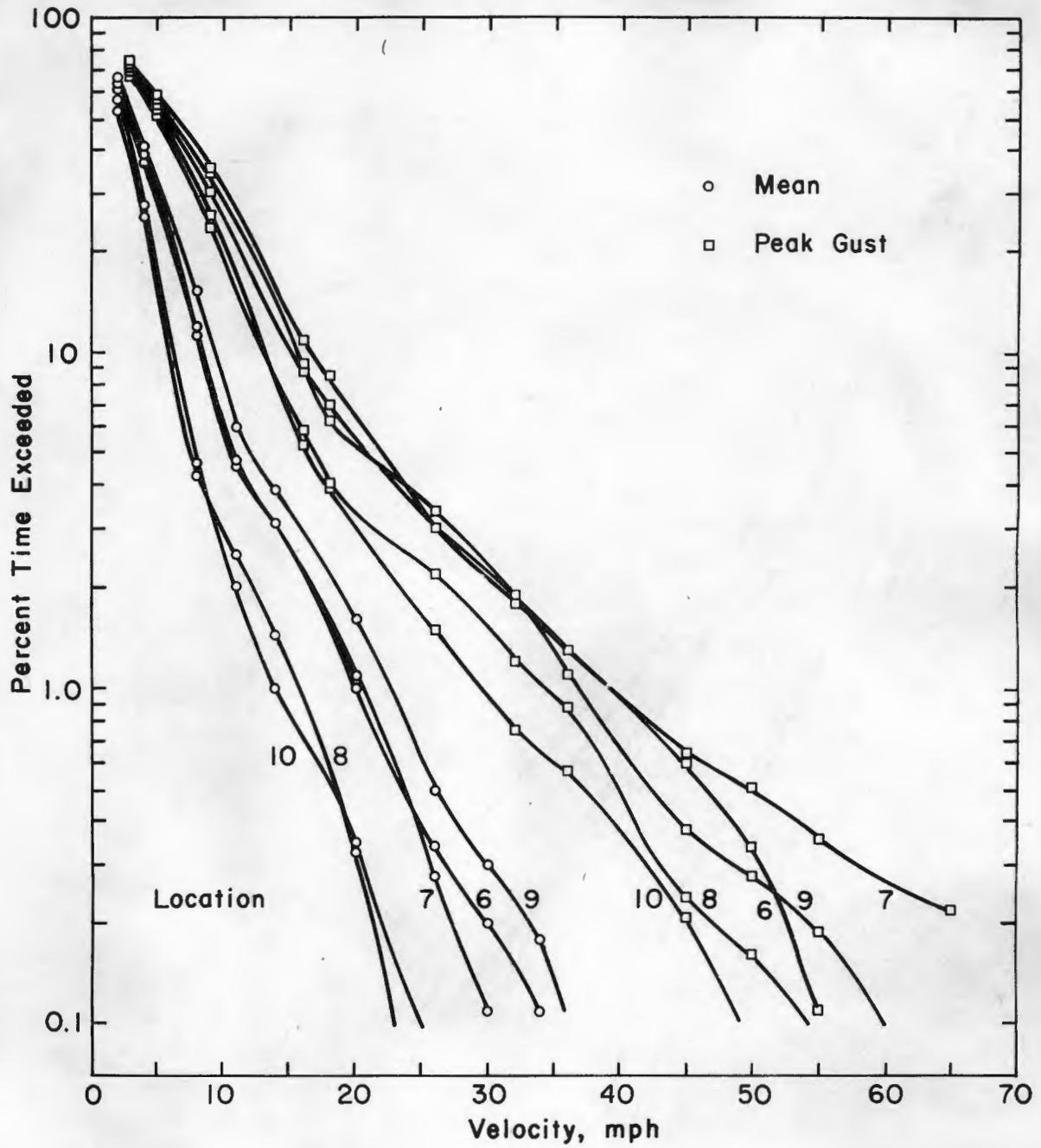


Figure 18. Wind Velocity Probabilities for Sites 6-10

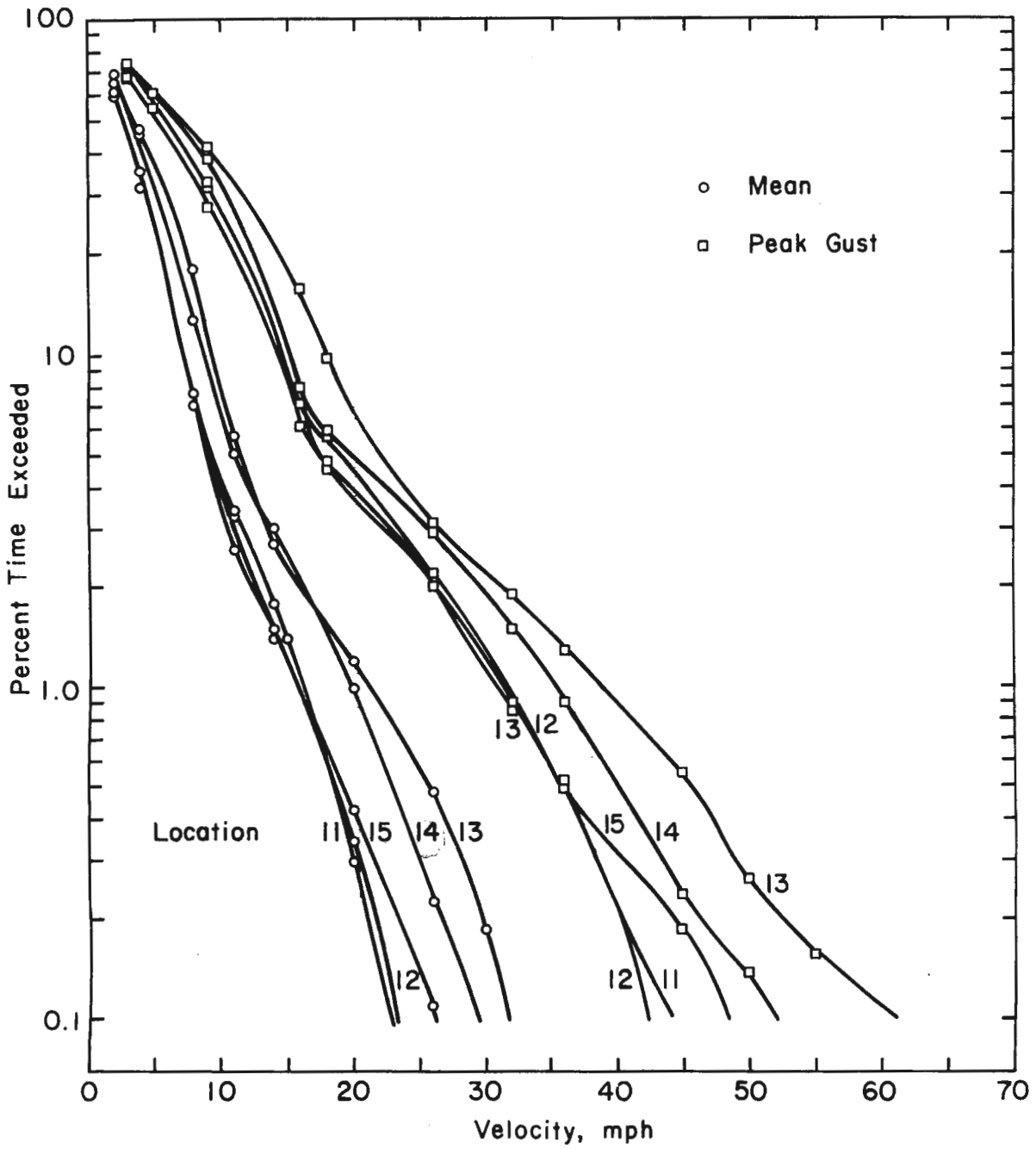


Figure 19. Wind Velocity Probabilities for Sites 11-15

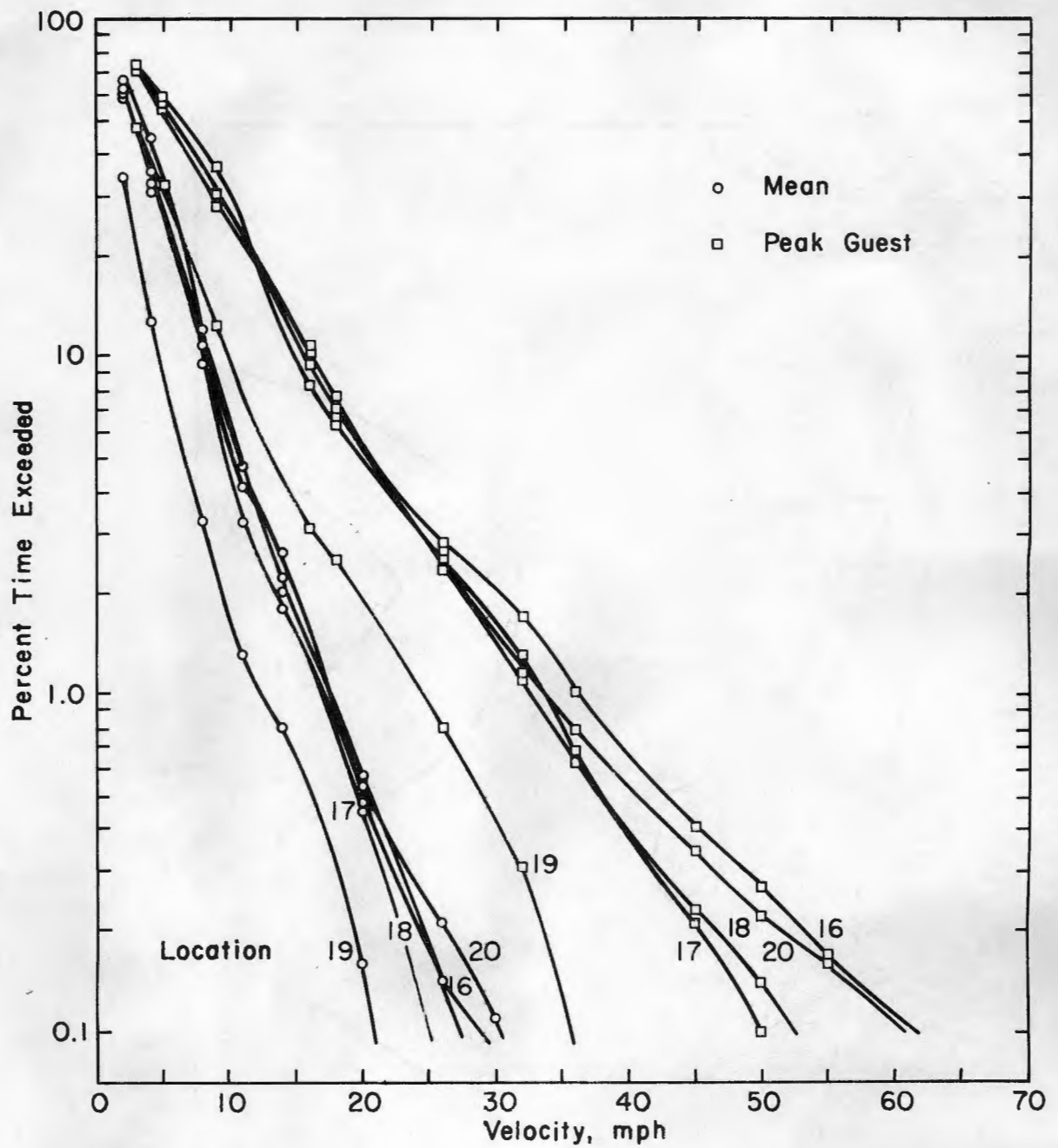
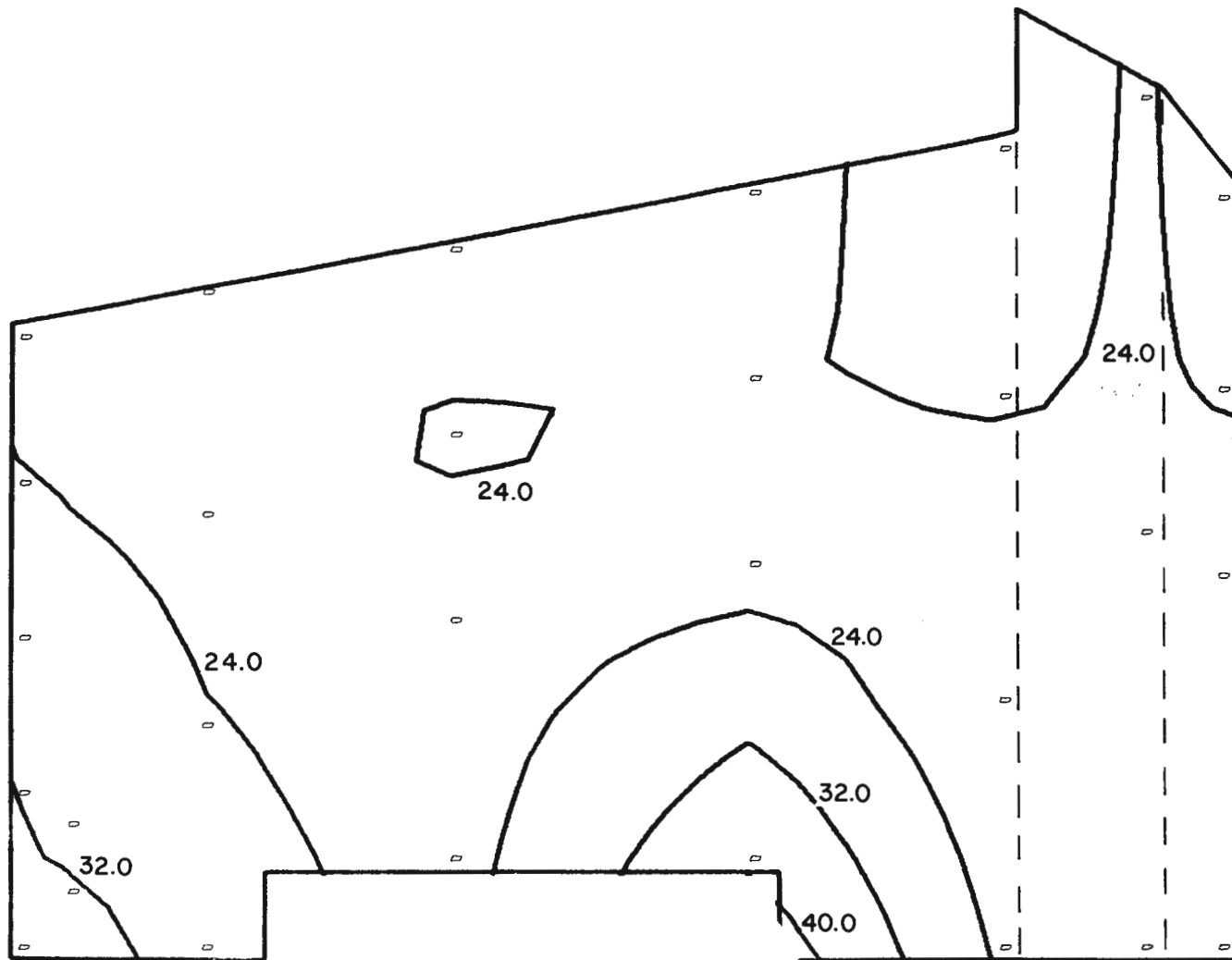


Figure 20. Wind Velocity Probabilities for Sites 16-20



FACE 1

Figure 21a. Peak-Pressure Contours on the Building

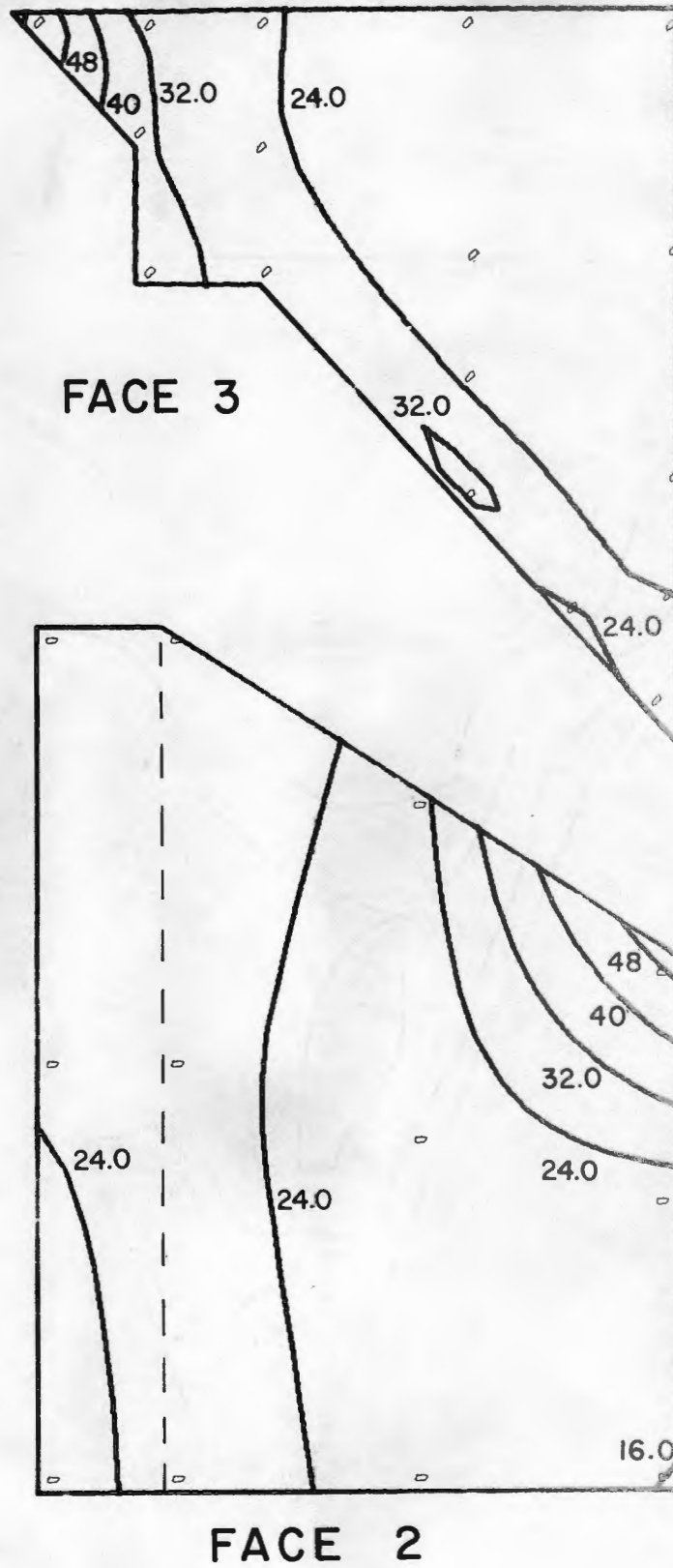


Figure 21b. Peak-Pressure Contours on the Building

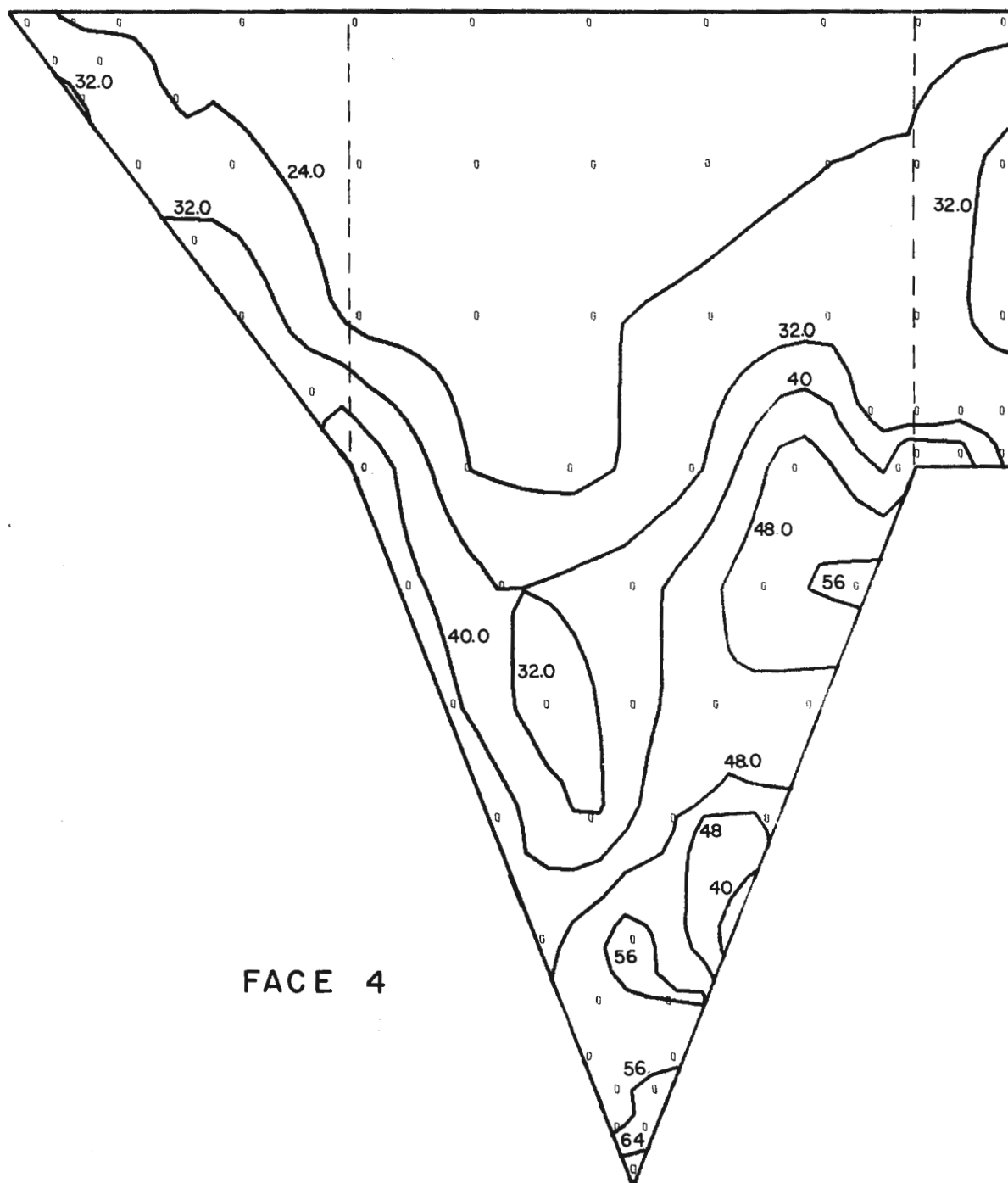
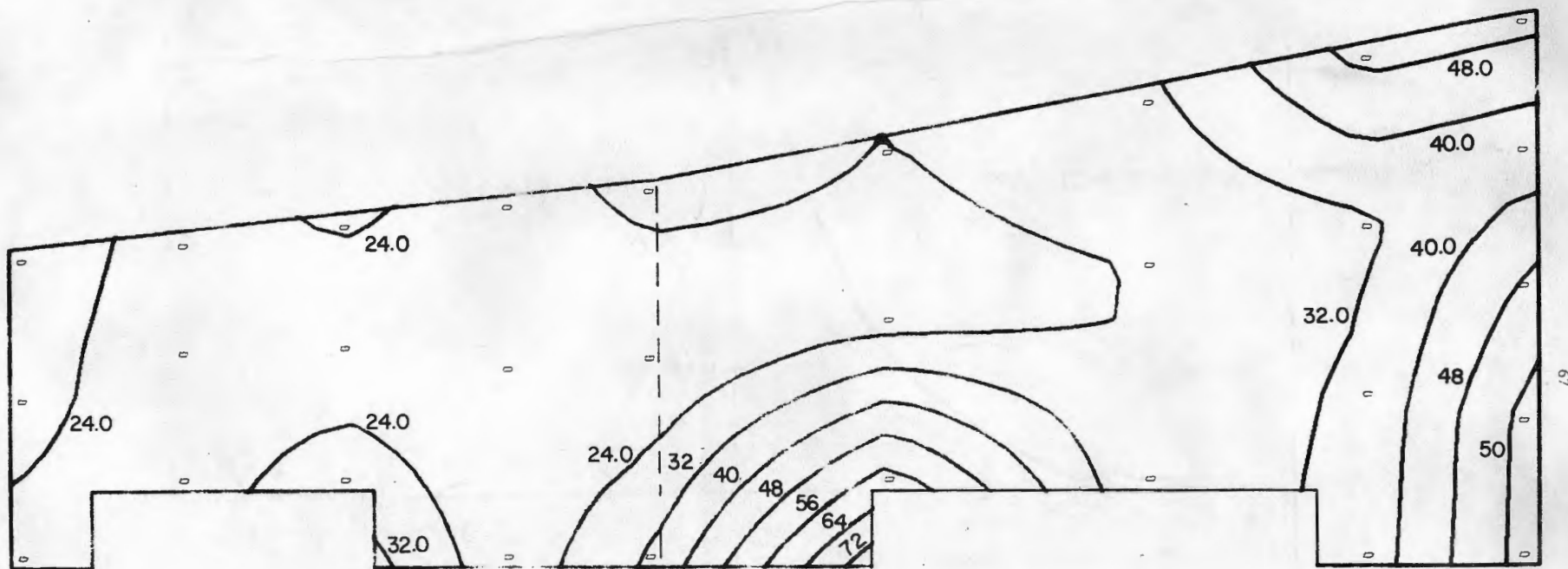


Figure 21c. Peak-Pressure Contours on the Building



FACE 6

Figure 21d. Peak-Pressure Contours on the Building

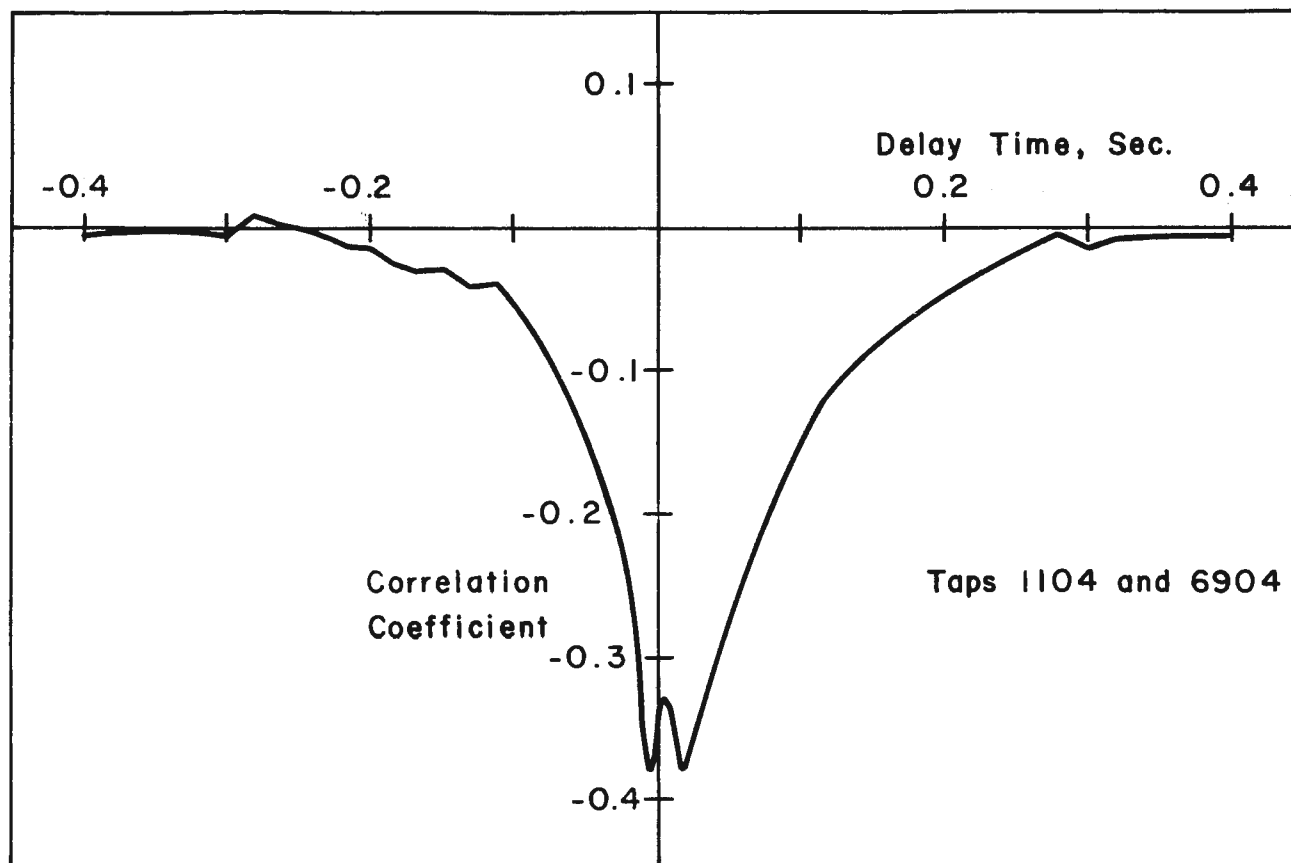


Figure 22. Pressure Correlation for Taps 1104 and 6904

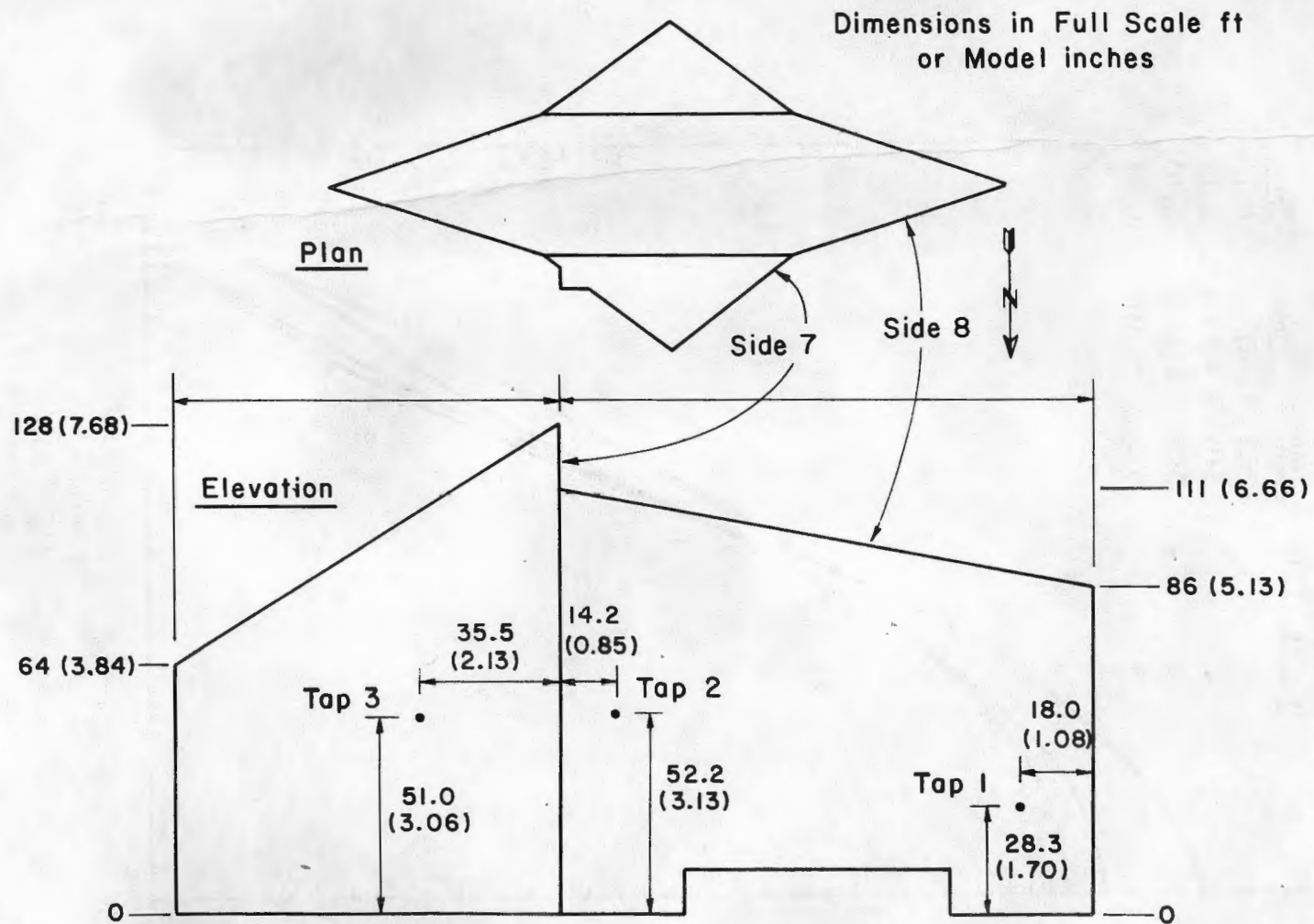


Figure 23. Spectrum Tap Locations

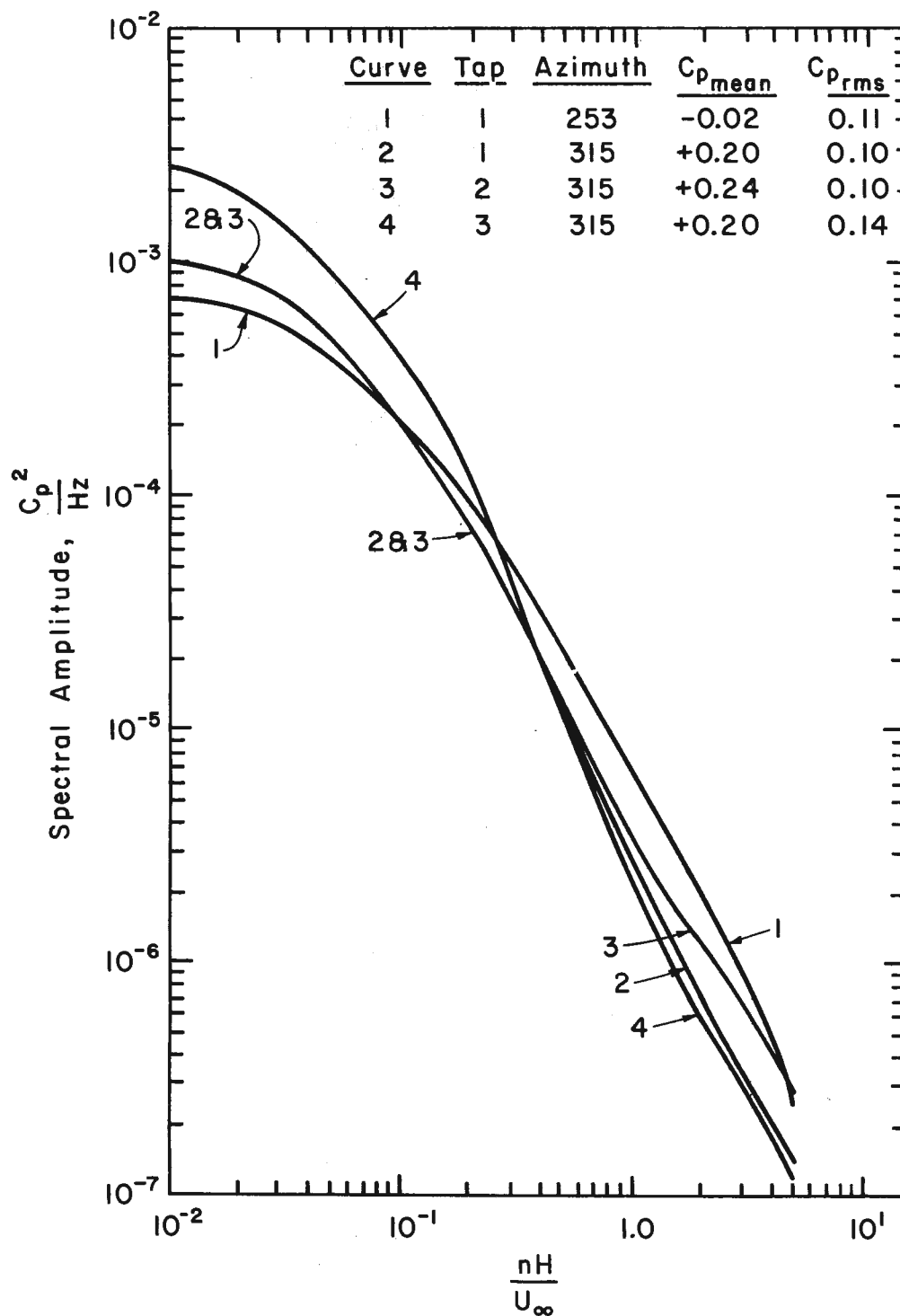


Figure 24. Spectral Distributions of Pressure Fluctuations

APPENDIX A

PRESSURE DATA

Notes: Pressure coefficients are defined in Section 4.3
Pressure tap designation is explained in Figure 3.

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION= 90

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.127	.066	.451	-.346	3101	-.288	.086	-.030	-.708
1102	.155	.106	.645	-.524	3201	-.399	.134	-.068	-1.084
1103	.175	.129	.668	-.452	3202	-.279	.083	-.065	-.626
1104	.190	.155	.703	-.459	3203	-.279	.083	-.039	-.703
1105	.142	.079	.451	-.308	3204	-.378	.145	-.007	-.996
1201	.148	.078	.523	-.331	3205	-.245	.091	.001	-.677
1202	.158	.083	.514	-.285	3206	-.203	.109	.052	-.720
1301	.144	.057	.405	-.086	3301	-.135	.064	.063	-.409
1302	.149	.059	.379	-.245	3302	-.275	.097	-.043	-.854
1303	.149	.064	.415	-.079	3303	-.179	.080	.043	-.685
1304	.103	.056	.308	-.141	3304	-.161	.071	.049	-.596
1401	.116	.036	.278	-.053	3401	-.160	.062	.033	-.487
1402	.139	.050	.337	.003	3402	-.160	.060	.052	-.430
1403	.135	.056	.369	-.036	3403	-.109	.051	.056	-.501
1404	.081	.052	.299	-.117	3501	-.120	.056	.027	-.413
1501	.146	.060	.402	-.050	3502	-.081	.040	.058	-.258
1502	.148	.051	.366	.001	3601	-.087	.038	.013	-.338
1503	.144	.055	.353	-.023	4101	-.065	.027	.060	-.220
1504	.068	.052	.282	-.105	4102	-.132	.024	-.048	-.256
1601	.180	.070	.511	.030	4103	-.127	.022	-.047	-.249
1602	.207	.069	.475	.019	4104	-.119	.022	-.029	-.255
1603	.223	.088	.570	-.003	4105	-.123	.032	-.013	-.324
1604	.137	.097	.528	-.174	4106	-.096	.036	.029	-.242
1701	.205	.072	.521	.033	4107	-.150	.038	-.026	-.332
1702	.250	.105	.667	.020	4201	-.130	.031	-.015	-.362
1703	-.028	.071	.222	-.373	4202	-.123	.027	-.044	-.324
1801	.123	.053	.367	-.004	4203	-.117	.024	-.023	-.247
1802	.142	.069	.402	-.065	4204	-.117	.026	.001	-.256
1803	.159	.082	.488	-.115	4205	-.131	.047	-.009	-.426
1804	.100	.084	.550	-.184	4206	-.094	.052	.168	-.332
2101	-.071	.082	.203	-.514	4207	-.184	.055	-.003	-.397
2102	-.105	.079	.278	-.649	4301	-.138	.046	.054	-.445
2103	-.255	.081	-.003	-.704	4302	-.115	.031	.009	-.348
2201	-.107	.111	.406	-.849	4303	-.106	.024	-.022	-.234
2202	-.159	.102	.232	-.682	4304	-.106	.032	.007	-.344
2203	-.279	.093	.043	-.743	4305	-.168	.086	.073	-.615
2301	.081	.060	.330	-.177	4306	-.120	.069	.127	-.407
2302	.082	.086	.405	-.441	4307	-.205	.055	-.061	-.461
2303	-.096	.066	.145	-.417	4401	-.287	.122	.028	-.875
2401	-.046	.024	.114	-.138	4402	-.199	.093	.132	-.644
2402	-.054	.024	.046	-.148	4403	-.285	.102	.038	-.750
2403	-.092	.034	.091	-.235	4404	-.240	.083	-.015	-.744

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION= 90

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.250	.129	.072	-1.129	5302	-.267	.089	-.023	-.778
4502	-.117	.052	.019	-.534	5401	-.338	.084	-.123	-.774
4503	-.091	.029	-.015	-.296	5402	-.223	.086	-.050	-.636
4504	-.097	.044	.051	-.391	5501	-.336	.088	-.019	-.857
4505	-.234	.148	.053	-1.016	5502	-.329	.087	-.023	-.855
4506	-.357	.137	.029	-.954	5503	-.341	.105	-.013	-.801
4507	-.518	.241	.064	-1.442	6101	-.180	.039	-.013	-.320
4508	-.459	.137	.085	-1.041	6102	-.227	.050	0.000	-.436
4509	-.366	.103	.042	-.856	6103	-.188	.060	.133	-.413
4601	-.154	.063	.023	-.631	6201	-.123	.059	.108	-.477
4602	-.086	.036	.013	-.391	6202	-.051	.066	.277	-.261
4603	-.080	.029	.010	-.303	6203	-.136	.064	.184	-.347
4604	-.178	.137	.111	-.755	6301	-.148	.065	.155	-.387
4605	-.274	.094	.048	-.764	6302	-.029	.064	.293	-.191
4701	-.150	.069	.101	-.498	6303	-.122	.066	.213	-.371
4702	-.072	.036	.037	-.262	6401	-.019	.045	.206	-.131
4703	-.070	.029	.034	-.287	6402	-.013	.058	.315	-.156
4704	-.137	.113	.085	-.832	6403	-.114	.062	.174	-.361
4705	-.234	.097	.016	-.621	6501	.011	.053	.266	-.146
4801	-.136	.063	.042	-.460	6502	.032	.065	.327	-.168
4802	-.065	.038	.045	-.381	6503	-.070	.079	.323	-.381
4803	-.085	.075	.081	-.613	6601	-.057	.070	.251	-.499
4804	-.214	.102	.085	-.640	6602	-.029	.045	.277	-.235
4901	-.111	.061	.050	-.490	6603	-.093	.045	.073	-.308
4902	-.057	.049	.092	-.669	6701	-.006	.046	.150	-.258
4903	-.207	.108	.060	-.660	6702	-.018	.047	.206	-.258
4904	-.063	.051	.107	-.376	6703	-.065	.048	.172	-.264
4905	-.174	.165	.123	-.805	6801	-.016	.057	.213	-.296
4906	-.097	.059	.086	-.548	6802	-.027	.069	.219	-.596
4907	-.240	.169	.123	-.968	6803	-.022	.069	.241	-.391
4908	-.064	.066	.094	-.701	6804	-.049	.052	.165	-.346
4909	-.188	.205	.132	-1.367	6901	-.074	.110	.321	-.704
4910	-.091	.069	.108	-.568	6902	-.101	.138	.423	-.794
4911	-.223	.204	.145	-1.518	6903	-.111	.182	.597	-.800
4912	-.233	.254	.190	-2.140	6904	-.104	.228	.650	-.972
5101	-.311	.067	-.070	-.791	6905	-.127	.248	.473	-1.114
5102	-.326	.075	-.114	-.696	7101	-.285	.066	-.105	-.714
5103	-.290	.077	-.096	-.664	7102	-.210	.050	-.044	-.568
5104	-.190	.051	-.036	-.566	7103	-.383	.141	.072	-.902
5201	-.350	.081	-.134	-.782	8101	.049	.058	.353	-.336
5202	-.305	.085	-.088	-.747	8102	.110	.075	.591	-.064
5301	-.345	.081	-.168	-.845	8103	.012	.042	.215	-.168

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=135

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.356	.079	-.120	-.772	3101	-.250	.060	-.068	-.509
1102	-.372	.072	-.135	-.705	3201	-.221	.057	-.041	-.591
1103	-.358	.065	-.125	-.618	3202	-.224	.056	-.055	-.512
1104	-.351	.064	-.167	-.688	3203	-.252	.052	-.071	-.469
1105	-.351	.067	-.151	-.718	3204	-.240	.052	-.093	-.533
1201	-.377	.077	-.148	-1.062	3205	-.272	.069	-.075	-.736
1202	-.369	.072	-.126	-.865	3206	-.277	.081	-.026	-.945
1301	-.367	.079	-.160	-1.003	3301	-.235	.063	-.033	-.598
1302	-.370	.068	-.177	-.663	3302	-.252	.057	-.015	-.614
1303	-.378	.072	-.141	-.726	3303	-.254	.048	-.097	-.470
1304	-.334	.070	-.128	-.624	3304	-.257	.056	-.077	-.599
1401	-.332	.083	-.113	-.660	3401	-.230	.061	-.020	-.536
1402	-.318	.083	-.019	-.631	3402	-.249	.049	-.067	-.480
1403	-.401	.093	-.125	-.930	3403	-.240	.046	-.103	-.463
1404	-.336	.072	-.106	-.717	3501	-.237	.060	-.022	-.630
1501	-.407	.228	.032	-1.437	3502	-.235	.049	-.054	-.528
1502	-.254	.089	.032	-.527	3601	-.243	.066	-.016	-.591
1503	-.354	.078	-.099	-.797	4101	.025	.059	.318	-.212
1504	-.280	.061	-.083	-.556	4102	-.002	.055	.229	-.175
1601	-.203	.071	.077	-.450	4103	.001	.050	.192	-.157
1602	-.228	.087	.073	-.544	4104	.013	.053	.241	-.164
1603	-.288	.075	-.023	-.649	4105	.036	.065	.311	-.163
1604	-.252	.077	-.067	-1.042	4106	.057	.078	.335	-.160
1701	-.193	.094	.125	-.572	4107	-.042	.060	.210	-.236
1702	-.185	.108	.315	-.509	4201	-.043	.071	.236	-.397
1703	-.252	.062	-.093	-.623	4202	.002	.055	.278	-.214
1801	-.228	.088	.042	-.672	4203	.010	.052	.194	-.145
1802	-.193	.122	.235	-.663	4204	.024	.057	.222	-.140
1803	-.285	.084	.125	-.605	4205	.061	.070	.317	-.135
1804	-.286	.063	-.099	-.694	4206	.083	.088	.451	-.220
2101	-.193	.062	.071	-.566	4207	-.016	.067	.283	-.232
2102	-.299	.105	-.003	-.898	4301	-.094	.101	.225	-.463
2103	-.275	.066	-.041	-.640	4302	-.011	.058	.216	-.330
2201	-.144	.058	.113	-.345	4303	.008	.052	.213	-.135
2202	-.189	.089	.165	-.614	4304	.038	.057	.298	-.150
2203	-.253	.053	-.109	-.567	4305	.086	.075	.361	-.220
2301	-.112	.062	.196	-.283	4306	.141	.095	.510	-.198
2302	-.155	.077	.119	-.459	4307	-.011	.067	.260	-.253
2303	-.246	.049	-.086	-.480	4401	.143	.092	.496	-.154
2401	-.134	.039	.045	-.283	4402	.205	.119	.696	-.175
2402	-.163	.050	.055	-.395	4403	.228	.117	.642	-.131
2403	-.224	.054	-.004	-.459	4404	.072	.082	.348	-.201

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=135

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.413	.208	.162	-1.723	5302	-.252	.095	.094	-.654
4502	-.085	.097	.213	-.479	5401	-.281	.087	-.007	-.695
4503	.001	.060	.234	-.263	5402	-.235	.106	.124	-.676
4504	.022	.057	.236	-.142	5501	-.300	.101	.006	-.846
4505	.044	.063	.313	-.140	5502	-.304	.105	.044	-.870
4506	.036	.097	.446	-.251	5503	-.358	.143	.038	-1.242
4507	.172	.159	.825	-.225	6101	-.089	.060	.238	-.284
4508	.222	.147	.972	-.164	6102	-.079	.099	.487	-.434
4509	.200	.132	.665	-.157	6103	-.035	.086	.353	-.327
4601	-.224	.097	.123	-.683	6201	-.017	.075	.393	-.255
4602	-.026	.079	.211	-.385	6202	.112	.091	.514	-.141
4603	-0.000	.051	.219	-.138	6203	.004	.083	.440	-.261
4604	-.029	.049	.191	-.192	6301	-.001	.077	.347	-.237
4605	-.201	.041	-.044	-.402	6302	.128	.085	.589	-.107
4701	-.241	.108	.170	-.805	6303	.013	.093	.459	-.259
4702	-.046	.079	.229	-.410	6401	.129	.070	.687	-.021
4703	-.029	.050	.209	-.234	6402	.138	.080	.583	-.081
4704	-.068	.043	.128	-.209	6403	-.002	.094	.578	-.315
4705	-.250	.041	-.100	-.433	6501	.171	.072	.559	-.016
4801	-.262	.101	.182	-.721	6502	.164	.078	.568	-.040
4802	-.055	.080	.231	-.392	6503	.007	.093	.484	-.308
4803	-.074	.045	.154	-.244	6601	.009	.074	.359	-.286
4804	-.272	.045	-.126	-.452	6602	.152	.091	.537	-.056
4901	-.314	.122	.151	-.827	6603	-.001	.093	.425	-.233
4902	-.089	.064	.103	-.413	6701	-.054	.063	.283	-.269
4903	-.296	.052	-.144	-.520	6702	.173	.100	.627	-.062
4904	-.195	.144	.148	-.746	6703	.033	.106	.474	-.219
4905	-.165	.050	.006	-.417	6801	.190	.104	.720	-.037
4906	-.406	.127	.075	-.839	6802	.168	.100	.705	-.106
4907	-.288	.049	-.104	-.474	6803	.226	.128	.764	-.112
4908	-.366	.152	.123	-.874	6804	.053	.112	.511	-.238
4909	-.206	.080	-.004	-.634	6901	-.145	.071	.163	-.352
4910	-.478	.125	.046	-1.047	6902	-.119	.114	.428	-.456
4911	-.318	.089	-.085	-.711	6903	-.012	.128	.478	-.431
4912	-.518	.120	-.182	-1.250	6904	.080	.155	.674	-.312
5101	-.266	.085	.022	-.674	6905	.100	.155	.667	-.287
5102	-.266	.082	-.016	-.683	7101	-.173	.085	.060	-.599
5103	-.242	.080	.031	-.690	7102	-.076	.066	.175	-.531
5104	-.148	.079	.137	-.475	7103	-.140	.185	.344	-.761
5201	-.272	.084	-.085	-.771	8101	-.198	.107	.175	-.832
5202	-.266	.090	.040	-.680	8102	-.293	.060	-.094	-.545
5301	-.279	.084	-.024	-.748	8103	-.360	.098	-.105	-.840

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=180

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.181	.039	-.071	-.350	3101	-.205	.040	-.084	-.420
1102	-.198	.038	-.097	-.375	3201	-.177	.039	-.006	-.344
1103	-.185	.037	-.084	-.360	3202	-.192	.039	-.084	-.419
1104	-.185	.038	-.071	-.352	3203	-.222	.042	-.097	-.525
1105	-.188	.039	-.062	-.349	3204	-.246	.054	-.103	-.571
1201	-.200	.038	-.074	-.376	3205	-.264	.058	-.109	-.567
1202	-.189	.038	-.067	-.358	3206	-.284	.067	-.089	-.650
1301	-.196	.039	-.086	-.366	3301	-.177	.040	-.039	-.356
1302	-.195	.036	-.097	-.356	3302	-.206	.038	-.078	-.369
1303	-.204	.036	-.100	-.376	3303	-.224	.043	-.087	-.408
1304	-.187	.036	-.083	-.376	3304	-.255	.052	-.097	-.481
1401	-.208	.041	-.090	-.401	3401	-.180	.039	-.042	-.439
1402	-.208	.040	-.113	-.560	3402	-.221	.037	-.109	-.406
1403	-.209	.034	-.102	-.343	3403	-.234	.041	-.102	-.408
1404	-.190	.034	-.097	-.320	3501	-.198	.038	-.078	-.369
1501	-.267	.099	-.096	-.743	3502	-.226	.040	-.092	-.376
1502	-.194	.032	-.102	-.333	3601	-.227	.044	-.029	-.427
1503	-.200	.033	-.077	-.310	4101	.221	.085	.596	-.038
1504	-.175	.035	-.055	-.299	4102	.161	.078	.474	-.082
1601	-.186	.033	-.081	-.305	4103	.159	.078	.471	-.020
1602	-.188	.033	-.076	-.353	4104	.170	.082	.471	-.057
1603	-.196	.032	-.089	-.310	4105	.198	.098	.587	-.070
1604	-.176	.038	-.067	-.314	4106	.234	.117	.824	-.101
1701	-.197	.033	-.096	-.342	4107	.094	.092	.515	-.183
1702	-.193	.034	-.028	-.342	4201	.159	.080	.457	-.108
1703	-.201	.040	-.054	-.403	4202	.159	.071	.442	-.085
1801	-.197	.034	-.081	-.372	4203	.156	.074	.458	-.020
1802	-.201	.033	-.077	-.336	4204	.160	.078	.474	-.022
1803	-.195	.037	-.083	-.456	4205	.195	.092	.623	-.038
1804	-.207	.039	-.076	-.526	4206	.233	.117	.907	-.086
2101	-.186	.035	-.067	-.359	4207	.096	.089	.424	-.224
2102	-.194	.038	-.029	-.381	4301	.140	.089	.451	-.244
2103	-.198	.040	-.055	-.426	4302	.148	.072	.401	-.029
2201	-.184	.032	-.058	-.294	4303	.137	.069	.410	-.038
2202	-.175	.033	-.039	-.299	4304	.136	.071	.423	-.056
2203	-.199	.039	-.052	-.369	4305	.165	.087	.559	-.067
2301	-.188	.038	-.068	-.359	4306	.215	.112	.907	-.094
2302	-.207	.038	-.055	-.376	4307	.051	.080	.380	-.170
2303	-.224	.044	-.070	-.451	4401	.149	.099	.557	-.165
2401	-.238	.047	-.026	-.448	4402	.175	.119	.647	-.181
2402	-.236	.047	-.064	-.458	4403	.195	.125	.720	-.119
2403	-.258	.051	-.125	-.504	4404	.058	.088	.489	-.190

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=180

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	.112	.110	.544	-.478	5302	.055	.089	.390	-.296
4502	.130	.082	.432	-.203	5401	-.031	.094	.347	-.382
4503	.120	.073	.410	-.079	5402	.089	.084	.368	-.357
4504	.094	.066	.389	-.085	5501	-.001	.099	.351	-.450
4505	.090	.067	.334	-.154	5502	.037	.095	.331	-.368
4506	-.014	.063	.263	-.174	5503	.068	.096	.413	-.378
4507	.031	.091	.484	-.198	6101	.082	.071	.365	-.103
4508	.072	.097	.470	-.202	6102	.100	.095	.516	-.187
4509	.081	.094	.470	-.219	6103	.165	.115	.681	-.144
4601	.073	.105	.598	-.309	6201	.103	.078	.429	-.115
4602	.110	.070	.448	-.085	6202	.166	.089	.559	-.081
4603	.071	.059	.323	-.073	6203	.148	.088	.532	-.122
4604	.010	.047	.192	-.152	6301	.113	.067	.391	-.087
4605	-.173	.030	-.080	-.269	6302	.153	.081	.548	-.085
4701	.037	.102	.490	-.391	6303	.163	.089	.609	-.057
4702	.075	.064	.306	-.130	6401	.177	.080	.512	-.044
4703	.029	.055	.236	-.129	6402	.163	.078	.525	-.059
4704	-.033	.043	.126	-.177	6403	.161	.086	.500	-.081
4705	-.200	.030	-.104	-.319	6501	.181	.077	.488	.001
4801	-.035	.111	.423	-.432	6502	.171	.080	.516	-.018
4802	.025	.064	.256	-.227	6503	.174	.088	.531	-.088
4803	-.038	.047	.148	-.148	6601	-.108	.058	.141	-.368
4804	-.204	.030	-.040	-.303	6602	.141	.088	.543	-.112
4901	-.068	.108	.293	-.436	6603	.135	.096	.582	-.125
4902	-.040	.055	.269	-.275	6701	-.105	.059	.238	-.300
4903	-.213	.030	-.114	-.326	6702	.138	.099	.563	-.088
4904	-.047	.081	.320	-.500	6703	.098	.103	.565	-.163
4905	-.117	.039	.073	-.337	6801	.128	.086	.529	-.079
4906	-.166	.113	.221	-.623	6802	.037	.071	.450	-.129
4907	-.222	.038	-.110	-.385	6803	.085	.091	.522	-.157
4908	-.157	.095	.116	-.579	6804	.045	.103	.465	-.274
4909	-.151	.048	.009	-.357	6901	-.174	.046	.013	-.353
4910	-.232	.098	.140	-.593	6902	-.220	.059	.031	-.463
4911	-.217	.041	-.088	-.448	6903	-.161	.065	.069	-.403
4912	-.266	.052	-.050	-.517	6904	-.120	.076	.316	-.379
5101	-.064	.101	.300	-.454	6905	-.081	.088	.294	-.356
5102	.010	.098	.347	-.456	7101	.001	.051	.179	-.181
5103	.046	.079	.341	-.316	7102	.091	.066	.401	-.169
5104	.102	.071	.406	-.131	7103	.136	.087	.476	-.212
5201	-.068	.095	.340	-.597	8101	-.461	.176	-.069	-.997
5202	.017	.100	.341	-.496	8102	-.319	.074	-.099	-.746
5301	-.059	.093	.313	-.434	8103	-.347	.087	-.132	-.757

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=225

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.104	.041	.019	-.273	3101	-.227	.099	.007	-.856
1102	-.122	.041	.020	-.308	3201	-.196	.103	.036	-.849
1103	-.106	.041	.017	-.298	3202	-.225	.119	.132	-1.132
1104	-.111	.045	.038	-.485	3203	-.234	.076	-.054	-.685
1105	-.099	.047	.036	-.365	3204	-.224	.058	-.074	-.451
1201	-.116	.040	.042	-.310	3205	-.228	.059	-.058	-.522
1202	-.103	.041	.026	-.278	3206	-.215	.062	-.044	-.528
1301	-.104	.040	.003	-.362	3301	-.207	.113	.142	-1.094
1302	-.098	.042	.070	-.314	3302	-.214	.081	.026	-.695
1303	-.111	.037	.019	-.331	3303	-.203	.049	-.045	-.452
1304	-.093	.045	.028	-.381	3304	-.207	.054	-.061	-.507
1401	-.126	.033	-.023	-.302	3401	-.207	.098	.102	-.920
1402	-.098	.032	.016	-.243	3402	-.208	.055	-.036	-.490
1403	-.110	.030	-.013	-.247	3403	-.202	.045	-.028	-.451
1404	-.093	.043	.020	-.355	3501	-.196	.076	.025	-.750
1501	-.139	.031	.010	-.278	3502	-.199	.052	-.055	-.471
1502	-.121	.030	-.017	-.228	3601	-.209	.076	.061	-.679
1503	-.135	.033	-.026	-.262	4101	-.006	.061	.259	-.217
1504	-.122	.044	.020	-.333	4102	-.043	.050	.241	-.187
1601	-.121	.028	-.032	-.221	4103	-.029	.047	.219	-.176
1602	-.123	.031	.004	-.231	4104	-.008	.048	.228	-.153
1603	-.128	.028	-.016	-.254	4105	.011	.056	.250	-.169
1604	-.172	.057	.020	-.420	4106	.040	.070	.353	-.191
1701	-.117	.030	.001	-.225	4107	-.034	.062	.272	-.304
1702	-.106	.031	.020	-.224	4201	-.064	.048	.184	-.275
1703	-.191	.078	.047	-.743	4202	-.052	.048	.160	-.238
1801	-.122	.033	-.012	-.342	4203	-.038	.049	.319	-.204
1802	-.129	.034	-.010	-.304	4204	-.028	.049	.315	-.188
1803	-.135	.033	-.009	-.275	4205	-.007	.052	.262	-.159
1804	-.171	.042	-.022	-.346	4206	.012	.065	.400	-.163
2101	-.152	.047	-.038	-.491	4207	-.052	.061	.243	-.332
2102	-.176	.047	-.049	-.465	4301	-.079	.047	.178	-.237
2103	-.211	.078	-.003	-.749	4302	-.060	.047	.219	-.225
2201	-.160	.043	-.019	-.382	4303	-.050	.046	.203	-.201
2202	-.163	.045	-.007	-.392	4304	-.041	.052	.250	-.247
2203	-.204	.062	-.015	-.637	4305	-.037	.057	.263	-.266
2301	-.132	.042	.073	-.493	4306	-.016	.067	.415	-.240
2302	-.162	.040	-.055	-.376	4307	-.088	.061	.296	-.372
2303	-.190	.044	-.057	-.411	4401	-.078	.053	.175	-.257
2401	-.139	.048	-.019	-.478	4402	-.079	.061	.266	-.266
2402	-.142	.043	-.004	-.406	4403	-.066	.060	.204	-.256
2403	-.179	.043	-.049	-.369	4404	-.103	.059	.144	-.376

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=225

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.122	.046	.094	-.321	5302	-.176	.081	.163	-.571
4502	-.083	.046	.141	-.219	5401	-.202	.058	-.007	-.439
4503	-.064	.048	.353	-.207	5402	-.131	.059	.138	-.401
4504	-.067	.050	.347	-.244	5501	-.185	.051	-.015	-.458
4505	-.085	.048	.237	-.231	5502	-.171	.050	-.004	-.399
4506	-.187	.056	.050	-.481	5503	-.163	.048	.043	-.392
4507	-.178	.060	.046	-.503	6101	-.226	.054	-.085	-.461
4508	-.160	.057	.029	-.538	6102	-.227	.046	-.119	-.440
4509	-.098	.065	.215	-.406	6103	-.236	.059	-.063	-.525
4601	-.108	.047	.068	-.322	6201	-.236	.059	-.031	-.524
4602	-.069	.047	.282	-.212	6202	-.236	.056	-.060	-.585
4603	-.069	.046	.243	-.235	6203	-.247	.071	-.056	-.662
4604	-.093	.051	.207	-.293	6301	-.308	.125	.032	-.810
4605	-.174	.039	.001	-.326	6302	-.208	.056	.021	-.489
4701	-.088	.051	.097	-.334	6303	-.218	.068	.091	-.921
4702	-.074	.049	.157	-.229	6401	-.178	.044	.018	-.357
4703	-.078	.046	.137	-.216	6402	-.188	.051	.022	-.459
4704	-.098	.043	.144	-.238	6403	-.192	.059	-.035	-.512
4705	-.160	.037	-.026	-.334	6501	-.133	.034	.050	-.263
4801	-.092	.047	.131	-.288	6502	-.176	.048	.015	-.424
4802	-.082	.050	.265	-.393	6503	-.170	.057	.013	-.621
4803	-.095	.045	.163	-.265	6601	-.139	.036	-.003	-.299
4804	-.146	.039	.054	-.331	6602	-.166	.058	.103	-.503
4901	-.105	.056	.190	-.385	6603	-.174	.072	.044	-.541
4902	-.096	.044	.116	-.262	6701	-.129	.045	.067	-.377
4903	-.148	.040	-.009	-.394	6702	-.145	.060	.113	-.484
4904	-.093	.048	.112	-.310	6703	-.162	.075	.053	-.610
4905	-.110	.039	.071	-.268	6801	-.047	.046	.201	-.164
4906	-.110	.051	.138	-.406	6802	-.107	.044	.110	-.340
4907	-.143	.039	-.010	-.362	6803	-.144	.056	.034	-.525
4908	-.109	.043	.069	-.304	6804	-.164	.074	.092	-.572
4909	-.121	.037	.037	-.278	6901	-.161	.036	-.047	-.324
4910	-.125	.053	.101	-.424	6902	-.183	.042	-.041	-.386
4911	-.151	.044	-.007	-.353	6903	-.184	.044	-.047	-.436
4912	-.151	.050	0.000	-.457	6904	-.187	.050	-.009	-.395
5101	-.218	.073	.046	-.756	6905	-.185	.058	.079	-.480
5102	-.244	.093	.067	-.792	7101	-.220	.069	-.040	-.569
5103	-.231	.095	.153	-.662	7102	-.136	.039	.010	-.415
5104	-.152	.082	.273	-.544	7103	-.063	.050	.180	-.244
5201	-.235	.066	.029	-.672	8101	-.023	.037	-.088	-.389
5202	-.218	.095	.065	-.593	8102	-.213	.027	-.114	-.310
5301	-.229	.067	-.038	-.566	8103	-.210	.033	-.094	-.420

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=285

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.003	.038	.191	-.250	3101	-.112	.041	.042	-.264
1102	-.039	.040	.129	-.231	3201	-.103	.037	.029	-.241
1103	-.038	.044	.145	-.294	3202	-.096	.039	.025	-.275
1104	-.072	.057	.130	-.413	3203	-.119	.043	.029	-.320
1105	-.066	.060	.088	-.516	3204	-.148	.052	.007	-.351
1201	-.019	.038	.149	-.200	3205	-.165	.060	.031	-.478
1202	-.011	.038	.207	-.183	3206	-.238	.088	.006	-.732
1301	-.023	.036	.204	-.110	3301	-.083	.028	.009	-.326
1302	-.039	.037	.140	-.206	3302	-.094	.026	.003	-.276
1303	-.086	.053	.153	-.362	3303	-.108	.039	.018	-.289
1304	-.083	.058	.104	-.359	3304	-.211	.077	.053	-.559
1401	-.078	.033	.092	-.358	3401	-.080	.027	.029	-.261
1402	-.097	.045	.060	-.333	3402	-.099	.028	.031	-.226
1403	-.132	.061	.114	-.470	3403	-.174	.074	.037	-.520
1404	-.117	.063	.066	-.393	3501	-.089	.028	.007	-.216
1501	-.187	.061	-.031	-.450	3502	-.090	.040	.054	-.302
1502	-.156	.049	-.012	-.453	3601	-.104	.033	-.007	-.261
1503	-.172	.063	.023	-.483	4101	-.071	.024	.029	-.190
1504	-.142	.065	.091	-.413	4102	-.135	.022	-.050	-.289
1601	-.139	.035	-.028	-.286	4103	-.140	.026	-.035	-.326
1602	-.132	.029	-.028	-.301	4104	-.162	.050	-.021	-.483
1603	-.159	.049	.073	-.389	4105	-.242	.070	-.078	-.569
1604	-.136	.050	-.003	-.361	4106	-.161	.053	.010	-.449
1701	-.127	.029	-.034	-.223	4107	-.196	.047	-.052	-.490
1702	-.122	.041	.035	-.302	4201	-.125	.022	-.009	-.210
1703	-.132	.050	.029	-.336	4202	-.131	.021	-.052	-.251
1801	-.142	.040	.001	-.307	4203	-.135	.023	-.038	-.245
1802	-.147	.045	.025	-.368	4204	-.160	.038	-.044	-.351
1803	-.136	.065	.066	-.504	4205	-.218	.060	-.066	-.446
1804	-.154	.057	.007	-.535	4206	-.158	.045	-.018	-.403
2101	-.175	.057	-.034	-.526	4207	-.183	.045	-.046	-.606
2102	-.185	.066	-.006	-.602	4301	-.131	.022	-.038	-.241
2103	-.120	.045	.016	-.367	4302	-.130	.021	-.053	-.223
2201	-.186	.048	-.053	-.437	4303	-.134	.024	-.044	-.288
2202	-.170	.048	.025	-.365	4304	-.157	.039	-.015	-.394
2203	-.167	.089	.110	-.916	4305	-.212	.052	-.099	-.459
2301	-.151	.047	-.013	-.383	4306	-.162	.036	-.032	-.393
2302	-.175	.048	-.045	-.416	4307	-.168	.034	-.043	-.390
2303	-.170	.067	.032	-.483	4401	-.189	.035	-.097	-.338
2401	-.148	.046	-.010	-.327	4402	-.169	.032	-.069	-.300
2402	-.143	.039	-.009	-.305	4403	-.172	.033	-.089	-.341
2403	-.170	.044	-.048	-.380	4404	-.166	.029	-.086	-.319

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 1 WIND DIRECTION=285

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.137	.037	.009	-.369	5302	-.209	.047	-.087	-.453
4502	-.131	.023	-.010	-.254	5401	-.216	.038	-.099	-.395
4503	-.124	.022	0.000	-.281	5402	-.174	.032	-.044	-.362
4504	-.156	.039	-.022	-.353	5501	-.199	.036	-.097	-.395
4505	-.192	.044	-.069	-.468	5502	-.185	.036	-.084	-.378
4506	-.191	.040	-.071	-.360	5503	-.177	.036	-.074	-.359
4507	-.178	.037	-.074	-.341	6101	-.200	.034	-.093	-.380
4508	-.181	.040	-.069	-.418	6102	-.195	.031	-.107	-.365
4509	-.160	.036	-.038	-.347	6103	-.183	.034	-.079	-.352
4601	-.135	.041	.040	-.335	6201	-.235	.036	-.134	-.383
4602	-.119	.024	-.019	-.224	6202	-.233	.035	-.138	-.392
4603	-.127	.028	-.031	-.260	6203	-.225	.043	-.107	-.531
4604	-.177	.045	-.044	-.385	6301	-.288	.073	-.119	-.698
4605	-.213	.056	-.046	-.452	6302	-.209	.035	-.125	-.377
4701	-.114	.041	.078	-.323	6303	-.200	.041	-.065	-.417
4702	-.119	.026	.018	-.241	6401	-.184	.026	-.088	-.290
4703	-.123	.028	.007	-.254	6402	-.186	.030	-.071	-.322
4704	-.151	.036	-.016	-.326	6403	-.181	.042	-.052	-.440
4705	-.190	.053	-.007	-.414	6501	-.175	.028	-.099	-.299
4801	-.117	.041	.043	-.287	6502	-.182	.039	-.094	-.371
4802	-.115	.027	-.004	-.251	6503	-.175	.049	0.000	-.537
4803	-.133	.031	-.022	-.266	6601	-.190	.044	-.074	-.405
4804	-.173	.049	0.000	-.372	6602	-.184	.047	-.032	-.399
4901	-.129	.048	.015	-.397	6603	-.184	.075	.072	-.542
4902	-.119	.030	-.004	-.241	6701	-.153	.034	-.028	-.319
4903	-.160	.047	-.009	-.341	6702	-.170	.064	.057	-.533
4904	-.112	.037	.066	-.292	6703	-.166	.086	.100	-.670
4905	-.118	.031	-.009	-.227	6801	-.135	.040	.078	-.293
4906	-.128	.049	.075	-.344	6802	-.142	.043	.015	-.324
4907	-.136	.042	-.007	-.318	6803	-.163	.071	.032	-.598
4908	-.116	.035	0.000	-.253	6804	-.166	.086	.100	-.686
4909	-.117	.032	-.015	-.245	6901	-.155	.071	.013	-.605
4910	-.122	.046	.034	-.374	6902	-.159	.067	-.009	-.571
4911	-.125	.041	.038	-.406	6903	-.163	.079	.018	-.792
4912	-.128	.051	.034	-.480	6904	-.175	.087	.034	-.679
5101	-.181	.042	-.058	-.384	6905	-.171	.072	.026	-.605
5102	-.224	.050	-.047	-.564	7101	-.196	.033	-.091	-.344
5103	-.243	.051	-.091	-.500	7102	-.168	.024	-.066	-.256
5104	-.186	.044	-.056	-.387	7103	-.133	.026	-.015	-.230
5201	-.213	.042	-.094	-.514	8101	-.133	.025	-.028	-.215
5202	-.233	.052	-.082	-.456	8102	-.143	.027	-.038	-.241
5301	-.226	.041	-.090	-.471	8103	-.153	.024	-.072	-.275

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 0

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.059	.051	.175	-.216	3101	.124	.096	.574	-.264
1102	-.141	.052	.088	-.317	3201	-.109	.077	.132	-.407
1103	-.091	.060	.156	-.289	3202	.114	.104	.450	-.345
1104	-.077	.065	.229	-.273	3203	.143	.107	.527	-.200
1105	-.048	.074	.275	-.257	3204	.246	.114	.701	-.157
1201	.023	.049	.201	-.098	3205	.258	.110	.754	-.151
1202	.004	.048	.260	-.129	3206	.259	.130	.814	-.239
1301	.226	.081	.576	.010	3301	-.079	.045	.098	-.257
1302	.108	.062	.416	-.059	3302	.143	.084	.500	-.075
1303	.149	.089	.576	-.078	3303	.255	.103	.627	-.138
1304	.022	.080	.444	-.204	3304	.285	.107	.654	-.112
1401	-.045	.046	.140	-.287	3401	-.084	.036	.072	-.213
1402	.179	.072	.541	.001	3402	.202	.085	.569	-.029
1403	.208	.093	.688	-.046	3403	.279	.097	.758	.018
1404	.027	.080	.342	-.187	3501	-.080	.034	.085	-.194
1501	-.032	.052	.167	-.262	3502	.192	.089	.501	-.034
1502	.253	.076	.644	.010	3601	-.087	.037	.101	-.204
1503	.281	.091	.679	.015	4101	-.230	.038	-.101	-.367
1504	.071	.073	.395	-.167	4102	-.310	.042	-.191	-.531
1601	.224	.086	.602	-.084	4103	-.296	.039	-.178	-.495
1602	.189	.097	.595	-.110	4104	-.284	.038	-.175	-.473
1603	.244	.138	.718	-.126	4105	-.274	.037	-.169	-.459
1604	.109	.117	.508	-.298	4106	-.260	.038	-.130	-.426
1701	.196	.092	.560	-.234	4107	-.254	.038	-.126	-.411
1702	.145	.078	.461	-.082	4201	-.311	.042	-.208	-.576
1703	.120	.122	.848	-.400	4202	-.297	.039	-.191	-.512
1801	.165	.084	.507	-.247	4203	-.285	.036	-.166	-.486
1802	.162	.076	.479	-.082	4204	-.272	.035	-.172	-.410
1803	.181	.094	.594	-.101	4205	-.261	.035	-.141	-.399
1804	.156	.097	.542	-.200	4206	-.252	.035	-.121	-.393
2101	.234	.079	.586	.059	4207	-.257	.036	-.145	-.389
2102	.224	.081	.654	-.060	4301	-.322	.050	-.191	-.603
2103	.248	.108	.710	-.029	4302	-.299	.040	-.160	-.485
2201	.291	.083	.666	.101	4303	-.284	.037	-.172	-.422
2202	.298	.087	.708	.090	4304	-.267	.035	-.177	-.435
2203	.274	.115	.736	-.018	4305	-.257	.035	-.130	-.383
2301	.274	.083	.639	.076	4306	-.247	.036	-.126	-.387
2302	.258	.081	.674	.025	4307	-.243	.036	-.103	-.369
2303	.280	.110	.701	-.112	4401	-.264	.037	-.139	-.405
2401	.230	.073	.595	-.090	4402	-.257	.037	-.123	-.395
2402	.205	.101	.664	-.197	4403	-.253	.037	-.133	-.395
2403	.244	.137	.773	-.373	4404	-.250	.038	-.139	-.390

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 0

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.322	.067	-.174	-.793	5302	-.367	.054	-.227	-.708
4502	-.306	.048	-.174	-.549	5401	-.369	.057	-.216	-.706
4503	-.290	.042	-.147	-.528	5402	-.366	.054	-.209	-.659
4504	-.272	.041	-.124	-.471	5501	-.367	.056	-.210	-.640
4505	-.268	.040	-.150	-.435	5502	-.359	.057	-.205	-.644
4506	-.270	.048	-.114	-.630	5503	-.360	.065	-.218	-.759
4507	-.259	.041	-.138	-.500	6101	-.264	.048	-.065	-.518
4508	-.254	.041	-.127	-.452	6102	-.269	.064	-.037	-.664
4509	-.250	.046	-.072	-.542	6103	-.312	.053	-.129	-.505
4601	-.327	.058	-.175	-.633	6201	-.265	.043	-.071	-.471
4602	-.300	.047	-.151	-.556	6202	-.278	.045	-.091	-.475
4603	-.285	.050	-.135	-.568	6203	-.323	.042	-.190	-.512
4604	-.274	.051	-.093	-.516	6301	-.288	.069	-.078	-.619
4605	-.268	.053	-.081	-.610	6302	-.287	.048	-.127	-.461
4701	-.312	.053	-.141	-.672	6303	-.327	.041	-.184	-.508
4702	-.295	.048	-.112	-.561	6401	-.300	.049	-.163	-.524
4703	-.298	.051	-.148	-.534	6402	-.297	.045	-.135	-.494
4704	-.289	.057	-.112	-.682	6403	-.326	.041	-.205	-.515
4705	-.276	.052	-.111	-.515	6501	-.290	.049	-.127	-.502
4801	-.319	.051	-.175	-.743	6502	-.289	.049	-.059	-.474
4802	-.302	.049	-.145	-.506	6503	-.325	.047	-.141	-.543
4803	-.289	.051	-.100	-.303	6601	-.349	.168	-.134	-1.439
4804	-.276	.051	-.088	-.485	6602	-.327	.047	-.125	-.487
4901	-.307	.046	-.160	-.476	6603	-.327	.048	-.181	-.622
4902	-.293	.049	-.162	-.624	6701	-.365	.066	-.175	-.690
4903	-.283	.051	-.115	-.509	6702	-.347	.045	-.206	-.491
4904	-.296	.047	-.169	-.613	6703	-.340	.051	-.197	-.537
4905	-.288	.048	-.142	-.537	6801	-.333	.058	-.169	-.534
4906	-.295	.048	-.153	-.573	6802	-.340	.051	-.210	-.549
4907	-.284	.049	-.124	-.504	6803	-.330	.044	-.205	-.475
4908	-.286	.046	-.138	-.488	6804	-.322	.049	-.154	-.562
4909	-.285	.046	-.129	-.465	6901	-.290	.053	-.129	-.543
4910	-.292	.046	-.159	-.512	6902	-.297	.049	-.156	-.521
4911	-.289	.046	-.150	-.504	6903	-.292	.048	-.156	-.506
4912	-.284	.047	-.145	-.501	6904	-.296	.046	-.138	-.499
5101	-.361	.080	-.206	-.962	6905	-.307	.049	-.135	-.621
5102	-.370	.064	-.216	-.764	7101	-.289	.033	-.191	-.416
5103	-.362	.054	-.225	-.644	7102	-.270	.032	-.150	-.369
5104	-.345	.044	-.221	-.533	7103	-.248	.041	-.038	-.413
5201	-.382	.079	-.203	-.933	8101	-.368	.064	-.099	-.815
5202	-.378	.060	-.238	-.681	8102	-.531	.156	-.125	-1.187
5301	-.383	.065	-.232	-.824	8103	-.431	.099	-.212	-.875

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 15

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.068	.060	.170	-.237	3101	.155	.137	.576	-.609
1102	-.154	.060	.120	-.347	3201	-.156	.084	.197	-.449
1103	-.084	.076	.306	-.315	3202	.061	.164	.498	-.529
1104	-.050	.085	.300	-.313	3203	.097	.123	.574	-.387
1105	-.003	.099	.455	-.293	3204	.192	.144	.717	-.328
1201	.038	.064	.398	-.140	3205	.210	.137	.724	-.260
1202	.005	.064	.452	-.220	3206	.181	.141	.702	-.634
1301	.256	.100	.758	-.050	3301	-.102	.046	.090	-.281
1302	.134	.089	.495	-.179	3302	.128	.083	.446	-.109
1303	.224	.116	.744	-.108	3303	.228	.100	.563	-.115
1304	.082	.099	.420	-.170	3304	.243	.103	.650	-.294
1401	-.048	.059	.223	-.300	3401	-.108	.041	.084	-.284
1402	.213	.088	.613	-.004	3402	.182	.087	.519	-.086
1403	.275	.117	.717	-.015	3403	.240	.092	.593	-.016
1404	.064	.103	.565	-.207	3501	-.103	.038	.068	-.239
1501	-.016	.064	.263	-.339	3502	.165	.085	.541	-.052
1502	.264	.090	.653	.006	3601	-.102	.038	.069	-.237
1503	.307	.106	.745	.056	4101	-.246	.041	-.129	-.429
1504	.078	.094	.497	-.197	4102	-.320	.041	-.167	-.464
1601	.287	.096	.795	-.009	4103	-.302	.038	-.173	-.493
1602	.223	.093	.606	-.067	4104	-.290	.037	-.177	-.440
1603	.300	.129	.912	-.095	4105	-.282	.037	-.177	-.425
1604	.120	.111	.597	-.299	4106	-.276	.035	-.149	-.426
1701	.243	.102	.741	-.244	4107	-.273	.037	-.146	-.532
1702	.209	.096	.606	-.024	4201	-.332	.043	-.201	-.518
1703	.146	.140	.698	-.356	4202	-.320	.042	-.191	-.520
1801	.227	.085	.531	-.043	4203	-.310	.038	-.197	-.479
1802	.213	.083	.534	.009	4204	-.299	.036	-.191	-.434
1803	.233	.101	.741	-.010	4205	-.291	.036	-.186	-.425
1804	.215	.111	.705	-.204	4206	-.280	.036	-.173	-.414
2101	.261	.082	.664	.038	4207	-.284	.039	-.162	-.457
2102	.242	.085	.684	.022	4301	-.338	.042	-.207	-.509
2103	.258	.139	.859	-.393	4302	-.329	.041	-.201	-.488
2201	.300	.098	.878	.084	4303	-.314	.040	-.165	-.467
2202	.292	.098	.832	.084	4304	-.303	.038	-.174	-.467
2203	.248	.119	.769	-.093	4305	-.291	.038	-.159	-.447
2301	.284	.098	.693	.086	4306	-.284	.038	-.162	-.446
2302	.259	.092	.676	.041	4307	-.276	.038	-.159	-.444
2303	.284	.125	.791	-.123	4401	-.297	.042	-.141	-.449
2401	.206	.073	.526	.027	4402	-.286	.042	-.131	-.434
2402	.201	.103	.647	-.127	4403	-.280	.041	-.125	-.416
2403	.257	.126	.744	-.114	4404	-.274	.042	-.116	-.407

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 15

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.337	.042	-.209	-.581	5302	-.375	.048	-.242	-.607
4502	-.334	.041	-.201	-.487	5401	-.378	.054	-.244	-.707
4503	-.326	.041	-.210	-.476	5402	-.368	.044	-.211	-.554
4504	-.314	.044	-.186	-.494	5501	-.369	.045	-.220	-.557
4505	-.320	.049	-.174	-.569	5502	-.363	.044	-.220	-.571
4506	-.324	.058	-.143	-.736	5503	-.360	.042	-.245	-.541
4507	-.295	.048	-.119	-.530	6101	-.330	.067	-.112	-.708
4508	-.271	.045	-.101	-.484	6102	-.350	.077	-.120	-.704
4509	-.263	.046	-.083	-.452	6103	-.368	.064	-.170	-.659
4601	-.351	.043	-.221	-.514	6201	-.329	.048	-.166	-.578
4602	-.344	.044	-.210	-.512	6202	-.339	.046	-.169	-.492
4603	-.341	.049	-.186	-.515	6203	-.369	.047	-.230	-.550
4604	-.356	.068	-.185	-.731	6301	-.398	.068	-.184	-.631
4605	-.355	.082	-.185	-1.146	6302	-.357	.044	-.200	-.517
4701	-.357	.044	-.221	-.544	6303	-.369	.042	-.235	-.568
4702	-.352	.049	-.207	-.590	6401	-.381	.049	-.235	-.614
4703	-.345	.054	-.179	-.608	6402	-.368	.043	-.232	-.560
4704	-.338	.057	-.174	-.616	6403	-.370	.041	-.227	-.551
4705	-.325	.052	-.173	-.578	6501	-.364	.047	-.221	-.568
4801	-.349	.045	-.192	-.545	6502	-.361	.044	-.235	-.531
4802	-.352	.051	-.218	-.550	6503	-.371	.045	-.244	-.578
4803	-.344	.054	-.197	-.604	6601	-.602	.179	-.218	-1.810
4804	-.335	.053	-.168	-.659	6602	-.384	.045	-.241	-.544
4901	-.349	.048	-.204	-.541	6603	-.379	.048	-.220	-.559
4902	-.335	.049	-.129	-.560	6701	-.386	.052	-.238	-.658
4903	-.330	.048	-.119	-.536	6702	-.381	.044	-.245	-.569
4904	-.331	.048	-.171	-.541	6703	-.378	.046	-.221	-.616
4905	-.327	.047	-.152	-.527	6801	-.355	.051	-.214	-.563
4906	-.322	.048	-.186	-.551	6802	-.363	.048	-.233	-.554
4907	-.318	.048	-.176	-.538	6803	-.361	.045	-.233	-.534
4908	-.314	.047	-.177	-.494	6804	-.369	.045	-.214	-.571
4909	-.313	.047	-.182	-.494	6901	-.351	.052	-.160	-.616
4910	-.327	.045	-.173	-.530	6902	-.353	.049	-.199	-.605
4911	-.325	.045	-.168	-.521	6903	-.351	.048	-.217	-.613
4912	-.320	.046	-.185	-.509	6904	-.350	.053	-.203	-.623
5101	-.379	.082	-.230	-.937	6905	-.357	.055	-.196	-.668
5102	-.395	.066	-.248	-.737	7101	-.321	.042	-.196	-.528
5103	-.389	.057	-.254	-.641	7102	-.309	.040	-.160	-.450
5104	-.373	.049	-.215	-.626	7103	-.300	.042	-.084	-.463
5201	-.405	.079	-.238	-.894	8101	-.389	.067	-.142	-.668
5202	-.384	.057	-.214	-.676	8102	-.499	.203	.040	-1.317
5301	-.394	.065	-.256	-.687	8103	-.461	.115	-.140	-1.101

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 30

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.018	.076	.299	-.347	3101	.078	.209	.643	-.956
1102	-.104	.092	.333	-.381	3201	-.227	.078	.162	-.628
1103	-.008	.103	.439	-.326	3202	-.086	.178	.463	-.771
1104	.032	.108	.402	-.290	3203	.015	.123	.499	-.689
1105	.065	.112	.531	-.269	3204	.051	.138	.555	-.525
1201	.088	.078	.427	-.275	3205	.062	.134	.570	-.470
1202	.057	.084	.403	-.208	3206	-.008	.144	.539	-.566
1301	.266	.104	.744	.016	3301	-.134	.055	.049	-.472
1302	.160	.103	.659	-.124	3302	.081	.091	.377	-.564
1303	.252	.127	.798	-.068	3303	.157	.106	.534	-.374
1304	.103	.115	.561	-.185	3304	.136	.101	.509	-.347
1401	-.034	.075	.256	-.381	3401	-.135	.049	.031	-.488
1402	.230	.095	.755	-.063	3402	.129	.081	.441	-.164
1403	.297	.118	.802	-.015	3403	.160	.087	.469	-.176
1404	.091	.110	.570	-.210	3501	-.136	.040	.027	-.342
1501	.036	.083	.302	-.231	3502	.114	.071	.403	-.079
1502	.252	.089	.783	.036	3601	-.134	.038	-.004	-.296
1503	.300	.113	.878	.030	4101	-.264	.046	-.113	-.473
1504	.088	.106	.588	-.195	4102	-.336	.048	-.197	-.667
1601	.296	.105	.831	.070	4103	-.327	.049	-.191	-.735
1602	.272	.087	.650	.012	4104	-.318	.048	-.196	-.689
1603	.339	.117	.857	-.009	4105	-.308	.046	-.191	-.647
1604	.132	.114	.631	-.196	4106	-.302	.044	-.178	-.529
1701	.310	.107	.776	.010	4107	-.302	.047	-.170	-.567
1702	.283	.104	.862	-.031	4201	-.348	.044	-.203	-.499
1703	.138	.136	.645	-.208	4202	-.344	.045	-.205	-.520
1801	.284	.089	.658	.034	4203	-.332	.049	-.206	-.582
1802	.250	.090	.682	-.006	4204	-.322	.048	-.205	-.546
1803	.301	.123	.759	.006	4205	-.312	.046	-.197	-.507
1804	.285	.142	.770	-.397	4206	-.302	.045	-.181	-.496
2101	.264	.109	.673	-.135	4207	-.317	.047	-.169	-.531
2102	.218	.112	.636	-.168	4301	-.358	.046	-.196	-.517
2103	.176	.182	.676	-.558	4302	-.352	.047	-.208	-.538
2201	.260	.106	.902	-.021	4303	-.344	.048	-.190	-.546
2202	.242	.109	.990	-.180	4304	-.333	.046	-.209	-.535
2203	.184	.132	.627	-.342	4305	-.319	.046	-.196	-.531
2301	.267	.096	.741	.015	4306	-.310	.045	-.182	-.510
2302	.225	.091	.618	-.048	4307	-.304	.047	-.163	-.513
2303	.227	.116	.674	-.100	4401	-.313	.047	-.149	-.514
2401	.117	.072	.453	-.101	4402	-.301	.046	-.141	-.481
2402	.075	.092	.461	-.211	4403	-.293	.046	-.144	-.499
2403	.134	.119	.579	-.263	4404	-.288	.048	-.138	-.649

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 30

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.350	.046	-.221	-.590	5302	-.397	.057	-.245	-.712
4502	-.349	.048	-.217	-.629	5401	-.410	.067	-.155	-.920
4503	-.342	.050	-.185	-.614	5402	-.380	.049	-.256	-.618
4504	-.331	.054	-.172	-.596	5501	-.390	.054	-.251	-.676
4505	-.344	.058	-.179	-.658	5502	-.380	.048	-.262	-.663
4506	-.349	.073	-.121	-.866	5503	-.377	.045	-.256	-.593
4507	-.311	.051	-.112	-.543	6101	-.306	.063	-.111	-.664
4508	-.287	.054	-.084	-.816	6102	-.332	.071	-.128	-.776
4509	-.284	.053	-.058	-.543	6103	-.368	.065	-.190	-.712
4601	-.371	.048	-.241	-.590	6201	-.320	.049	-.135	-.556
4602	-.363	.049	-.221	-.632	6202	-.333	.047	-.157	-.557
4603	-.360	.055	-.197	-.644	6203	-.370	.053	-.211	-.600
4604	-.373	.074	-.178	-.834	6301	-.395	.072	-.187	-.697
4605	-.367	.076	-.194	-.915	6302	-.356	.045	-.224	-.565
4701	-.371	.047	-.239	-.599	6303	-.374	.046	-.236	-.572
4702	-.366	.051	-.233	-.577	6401	-.379	.049	-.254	-.553
4703	-.360	.060	-.184	-.641	6402	-.367	.043	-.250	-.536
4704	-.356	.066	-.149	-.949	6403	-.378	.045	-.263	-.579
4705	-.348	.066	-.170	-.946	6501	-.371	.073	-.220	-1.198
4801	-.364	.051	-.197	-.617	6502	-.366	.042	-.226	-.551
4802	-.367	.058	-.196	-.655	6503	-.379	.045	-.238	-.553
4803	-.360	.060	-.184	-.637	6601	-.654	.203	-.232	-1.554
4804	-.353	.059	-.163	-.622	6602	-.400	.049	-.266	-.581
4901	-.367	.057	-.184	-.620	6603	-.396	.050	-.251	-.594
4902	-.363	.055	-.175	-.677	6701	-.404	.061	-.230	-.716
4903	-.358	.054	-.193	-.643	6702	-.397	.051	-.257	-.623
4904	-.359	.055	-.191	-.701	6703	-.402	.051	-.260	-.623
4905	-.356	.053	-.185	-.680	6801	-.382	.061	-.205	-.730
4906	-.357	.058	-.212	-.646	6802	-.392	.057	-.223	-.620
4907	-.353	.057	-.209	-.667	6803	-.388	.051	-.227	-.594
4908	-.349	.055	-.196	-.602	6804	-.390	.055	-.224	-.603
4909	-.349	.054	-.209	-.595	6901	-.380	.063	-.190	-.663
4910	-.343	.054	-.155	-.580	6902	-.380	.058	-.205	-.599
4911	-.341	.054	-.154	-.570	6903	-.373	.055	-.198	-.565
4912	-.336	.055	-.160	-.567	6904	-.363	.053	-.229	-.587
5101	-.413	.104	-.138	-1.048	6905	-.368	.055	-.220	-.617
5102	-.404	.073	-.196	-.811	7101	-.309	.042	-.180	-.501
5103	-.396	.063	-.205	-.733	7102	-.297	.042	-.169	-.467
5104	-.379	.053	-.235	-.609	7103	-.294	.044	-.125	-.449
5201	-.433	.096	-.211	-.884	8101	-.355	.082	-.086	-.666
5202	-.406	.068	-.209	-.857	8102	-.363	.217	.232	-1.471
5301	-.428	.083	-.207	-1.169	8103	-.438	.133	-.143	-1.147

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 45

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.017	.074	.400	-.214	3101	-.223	.251	.526	-1.343
1102	.003	.104	.551	-.322	3201	-.301	.088	-.007	-.982
1103	.087	.119	.678	-.238	3202	-.305	.141	.351	-.869
1104	.129	.134	.611	-.259	3203	-.162	.140	.287	-.765
1105	.117	.126	.733	-.250	3204	-.204	.140	.306	-.890
1201	.148	.082	.526	-.089	3205	-.193	.125	.404	-.684
1202	.146	.091	.591	-.120	3206	-.178	.102	.165	-.700
1301	.265	.095	.694	.048	3301	-.198	.071	.034	-.730
1302	.231	.089	.565	-.070	3302	-.041	.117	.279	-.805
1303	.295	.110	.704	.043	3303	.009	.097	.291	-.611
1304	.115	.106	.446	-.208	3304	-.032	.102	.254	-.611
1401	.010	.065	.315	-.300	3401	-.175	.071	.015	-.522
1402	.261	.091	.694	.025	3402	.027	.064	.306	-.303
1403	.299	.110	.866	.025	3403	.028	.070	.287	-.373
1404	.084	.100	.482	-.205	3501	-.157	.047	.031	-.413
1501	.116	.076	.386	-.229	3502	.022	.055	.276	-.141
1502	.277	.094	.626	.054	3601	-.152	.044	-.012	-.401
1503	.304	.110	.817	.003	4101	-.234	.047	-.065	-.470
1504	.083	.097	.437	-.245	4102	-.339	.051	-.172	-.586
1601	.317	.101	.698	.074	4103	-.341	.057	-.175	-.607
1602	.280	.083	.589	.079	4104	-.332	.058	-.172	-.604
1603	.327	.103	.786	.088	4105	-.319	.057	-.145	-.601
1604	.121	.105	.538	-.168	4106	-.316	.057	-.127	-.589
1701	.313	.097	.801	.095	4107	-.317	.064	-.105	-.769
1702	.324	.106	.783	-.004	4201	-.346	.051	-.154	-.535
1703	.028	.109	.450	-.386	4202	-.362	.055	-.213	-.586
1801	.276	.079	.596	.070	4203	-.353	.060	-.204	-.676
1802	.269	.092	.609	.025	4204	-.341	.061	-.174	-.646
1803	.317	.118	.776	.003	4205	-.326	.059	-.157	-.639
1804	.271	.130	1.008	-.082	4206	-.314	.058	-.144	-.621
2101	.201	.105	.620	-.257	4207	-.326	.070	-.081	-1.110
2102	.169	.108	.583	-.178	4301	-.366	.054	-.208	-.637
2103	-.005	.202	.577	-.982	4302	-.373	.058	-.217	-.688
2201	.213	.120	.703	-.412	4303	-.370	.061	-.192	-.778
2202	.196	.141	.679	-.372	4304	-.347	.060	-.171	-.685
2203	.049	.169	.633	-.710	4305	-.330	.059	-.142	-.730
2301	.219	.092	.663	-.076	4306	-.318	.058	-.135	-.643
2302	.211	.084	.553	-.042	4307	-.316	.069	-.105	-1.012
2303	.089	.107	.630	-.202	4401	-.335	.058	-.169	-.651
2401	.018	.056	.244	-.281	4402	-.321	.055	-.153	-.604
2402	-.029	.069	.421	-.288	4403	-.311	.056	-.145	-.663
2403	-.007	.088	.379	-.357	4404	-.315	.062	-.133	-.786

WIND/ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 45

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.383	.065	-.192	-.690	5302	-.380	.068	-.105	-.658
4502	-.382	.062	-.195	-.679	5401	-.407	.084	-.150	-.889
4503	-.378	.065	-.186	-.729	5402	-.379	.061	-.184	-.757
4504	-.369	.073	-.124	-.814	5501	-.397	.071	-.123	-.805
4505	-.364	.071	-.153	-.819	5502	-.398	.063	-.211	-.750
4506	-.370	.087	-.147	-1.027	5503	-.402	.057	-.234	-.700
4507	-.325	.058	-.156	-.613	6101	-.246	.056	.034	-.532
4508	-.300	.057	-.105	-.670	6102	-.280	.059	-.007	-.598
4509	-.299	.072	-.115	-1.098	6103	-.317	.069	-.091	-.691
4601	-.394	.063	-.181	-.724	6201	-.274	.058	.025	-.513
4602	-.384	.059	-.183	-.640	6202	-.297	.057	-.033	-.511
4603	-.382	.070	-.156	-.717	6203	-.343	.059	-.142	-.540
4604	-.384	.081	-.151	-1.137	6301	-.378	.091	-.064	-.901
4605	-.377	.083	-.163	-1.060	6302	-.344	.054	-.043	-.637
4701	-.401	.066	-.217	-.715	6303	-.359	.062	-.147	-.613
4702	-.393	.063	-.217	-.664	6401	-.371	.056	-.154	-.600
4703	-.386	.071	-.166	-.864	6402	-.375	.055	-.178	-.594
4704	-.380	.076	-.148	-.891	6403	-.390	.060	-.162	-.670
4705	-.371	.075	-.151	-.828	6501	-.361	.045	-.232	-.594
4801	-.401	.068	-.216	-.685	6502	-.388	.049	-.259	-.603
4802	-.396	.066	-.213	-.814	6503	-.407	.058	-.156	-.648
4803	-.389	.070	-.189	-1.017	6601	-.711	.253	-.232	-2.152
4804	-.379	.067	-.172	-.984	6602	-.416	.064	-.196	-.750
4901	-.402	.063	-.225	-.679	6603	-.421	.064	-.229	-.726
4902	-.394	.064	-.207	-.768	6701	-.445	.081	-.210	-.862
4903	-.385	.063	-.187	-.760	6702	-.433	.066	-.243	-.796
4904	-.393	.064	-.204	-.708	6703	-.424	.062	-.165	-.909
4905	-.388	.060	-.220	-.717	6801	-.417	.073	-.174	-.867
4906	-.402	.065	-.184	-1.050	6802	-.431	.068	-.213	-.859
4907	-.394	.061	-.187	-.693	6803	-.428	.063	-.226	-.742
4908	-.392	.059	-.211	-.766	6804	-.418	.064	-.201	-.697
4909	-.391	.057	-.217	-.699	6901	-.413	.073	-.190	-.933
4910	-.397	.060	-.225	-.649	6902	-.415	.064	-.207	-.735
4911	-.393	.059	-.223	-.628	6903	-.412	.060	-.213	-.657
4912	-.388	.060	-.225	-.649	6904	-.392	.059	-.193	-.651
5101	-.363	.119	-.022	-1.012	6905	-.392	.060	-.180	-.634
5102	-.361	.085	.015	-.814	7101	-.265	.042	-.108	-.514
5103	-.358	.071	-.034	-.700	7102	-.256	.040	-.075	-.411
5104	-.360	.058	-.123	-.682	7103	-.258	.045	-.043	-.421
5201	-.401	.117	-.057	-1.102	8101	-.311	.076	-.052	-.589
5202	-.379	.082	-.081	-.753	8102	-.195	.170	.258	-.951
5301	-.405	.094	-.087	-.844	8103	-.396	.113	-.102	-.930

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 60

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.029	.074	.456	-.191	3101	-.381	.207	.314	-1.373
1102	.071	.116	.552	-.253	3201	-.341	.108	-.044	-.978
1103	.160	.126	.675	-.225	3202	-.351	.118	.089	-.846
1104	.211	.144	.709	-.246	3203	-.286	.164	.221	-1.013
1105	.149	.122	.575	-.276	3204	-.351	.153	.087	-1.286
1201	.180	.080	.585	-.007	3205	-.286	.099	.064	-.787
1202	.194	.088	.561	-.064	3206	-.254	.110	.064	-.918
1301	.245	.080	.588	.076	3301	-.252	.079	-.036	-.671
1302	.245	.082	.640	-.016	3302	-.166	.141	.204	-.693
1303	.290	.103	.715	.064	3303	-.096	.094	.160	-.745
1304	.092	.106	.440	-.278	3304	-.148	.091	.114	-.517
1401	.046	.054	.278	-.161	3401	-.213	.081	.015	-.747
1402	.245	.081	.521	.046	3402	-.044	.055	.154	-.363
1403	.265	.098	.678	.022	3403	-.062	.058	.176	-.375
1404	.046	.094	.407	-.341	3501	-.148	.054	.031	-.475
1501	.155	.069	.452	-.132	3502	-.036	.039	.161	-.241
1502	.251	.082	.661	.025	3601	-.133	.049	.039	-.416
1503	.262	.098	.606	-.019	4101	-.148	.065	.096	-.400
1504	.044	.091	.363	-.216	4102	-.278	.072	-.003	-.566
1601	.289	.091	.788	.092	4103	-.313	.069	-.083	-.631
1602	.260	.083	.646	.081	4104	-.309	.063	-.136	-.663
1603	.286	.103	.736	.047	4105	-.280	.064	-.127	-.878
1604	.107	.107	.658	-.163	4106	-.259	.063	-.057	-.499
1701	.280	.093	.770	.089	4107	-.260	.076	-.027	-.693
1702	.300	.111	.764	.070	4201	-.222	.074	.029	-.661
1703	-.041	.093	.339	-.375	4202	-.296	.081	-.075	-.604
1801	.223	.069	.545	.043	4203	-.343	.073	-.081	-.702
1802	.232	.085	.627	-.099	4204	-.346	.062	-.137	-.637
1803	.267	.105	.707	-.130	4205	-.311	.058	-.148	-.630
1804	.202	.120	.749	-.156	4206	-.284	.062	-.063	-.607
2101	.113	.101	.462	-.253	4207	-.292	.091	-.045	-1.284
2102	.088	.111	.581	-.310	4301	-.250	.097	.143	-.710
2103	-.220	.162	.305	-.877	4302	-.328	.086	-.005	-.740
2201	.108	.118	.548	-.578	4303	-.382	.081	-.185	-.872
2202	.076	.148	.644	-.535	4304	-.376	.074	-.157	-.673
2203	-.152	.193	.406	-1.040	4305	-.344	.067	-.155	-.670
2301	.160	.081	.535	-.259	4306	-.320	.066	-.137	-.687
2302	.174	.082	.541	-.244	4307	-.318	.081	-.093	-1.002
2303	-.020	.072	.367	-.271	4401	-.367	.070	-.173	-.699
2401	-.019	.041	.130	-.198	4402	-.351	.067	-.155	-.624
2402	-.054	.053	.164	-.281	4403	-.345	.067	-.157	-.899
2403	-.066	.066	.193	-.305	4404	-.352	.075	-.142	-.762

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 60

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.436	.210	.131	-1.511	5302	-.207	.085	.064	-.819
4502	-.336	.109	-.030	-.877	5401	-.301	.157	.148	-1.142
4503	-.393	.095	-.102	-.768	5402	-.242	.095	.055	-.989
4504	-.413	.083	-.169	-.782	5501	-.350	.181	.108	-1.232
4505	-.399	.082	-.169	-.967	5502	-.397	.195	.206	-1.402
4506	-.386	.086	-.148	-.961	5503	-.444	.193	.136	-1.383
4507	-.357	.068	-.173	-.744	6101	-.140	.045	.077	-.317
4508	-.347	.072	-.166	-.807	6102	-.192	.042	-.012	-.410
4509	-.341	.078	-.101	-.804	6103	-.157	.055	.070	-.455
4601	-.483	.215	.072	-1.547	6201	-.180	.051	.126	-.406
4602	-.412	.115	-.081	-1.162	6202	-.116	.068	.195	-.363
4603	-.462	.098	-.227	-.886	6203	-.129	.074	.132	-.472
4604	-.436	.090	-.185	-.841	6301	-.197	.051	.077	-.394
4605	-.409	.084	-.173	-.898	6302	-.129	.081	.194	-.537
4701	-.528	.213	.003	-1.519	6303	-.127	.090	.184	-.554
4702	-.472	.114	-.066	-.985	6401	-.142	.070	.110	-.383
4703	-.503	.108	-.193	-.913	6402	-.160	.090	.176	-.466
4704	-.476	.097	-.185	-.933	6403	-.159	.105	.241	-.591
4705	-.444	.087	-.214	-.842	6501	-.167	.069	.096	-.386
4801	-.550	.186	-.047	-1.365	6502	-.187	.105	.188	-.592
4802	-.513	.114	-.143	-1.053	6503	-.190	.126	.268	-.825
4803	-.515	.108	-.234	-1.005	6601	-.356	.239	.067	-2.196
4804	-.471	.089	-.214	-.848	6602	-.214	.119	.187	-.764
4901	-.562	.149	-.105	-1.576	6603	-.331	.126	.101	-.876
4902	-.538	.125	-.240	-1.198	6701	-.400	.143	.056	-.933
4903	-.498	.105	-.230	-1.027	6702	-.359	.117	.073	-.899
4904	-.554	.140	-.191	-1.259	6703	-.473	.142	.160	-1.065
4905	-.525	.123	-.237	-1.154	6801	-.485	.141	-.121	-1.321
4906	-.583	.149	-.247	-1.256	6802	-.523	.136	-.113	-1.253
4907	-.518	.131	-.211	-1.146	6803	-.516	.117	-.107	-1.017
4908	-.547	.143	-.252	-1.134	6804	-.540	.145	-.127	-1.793
4909	-.512	.131	-.235	-1.085	6901	-.488	.141	-.062	-1.492
4910	-.520	.140	-.218	-1.246	6902	-.477	.118	-.104	-1.876
4911	-.454	.117	-.167	-1.247	6903	-.456	.104	-.115	-1.140
4912	-.436	.105	-.205	-1.442	6904	-.453	.101	-.141	-1.136
5101	-.219	.072	.005	-.710	6905	-.461	.110	-.164	-1.321
5102	-.203	.079	.203	-.688	7101	-.246	.059	-.101	-.534
5103	-.197	.069	.306	-.529	7102	-.178	.037	.003	-.304
5104	-.225	.074	.064	-.539	7103	-.237	.085	.107	-.789
5201	-.256	.125	.191	-1.013	8101	-.184	.080	.181	-.409
5202	-.200	.088	.129	-1.036	8102	-.054	.118	.456	-.823
5301	-.268	.132	.071	-1.192	8103	-.276	.112	.083	-.702

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 73

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.096	.068	.427	-.149	3101	-.425	.150	.062	-1.332
1102	.173	.103	.666	-.125	3201	-.414	.118	-.122	-1.066
1103	.236	.121	.741	-.083	3202	-.329	.096	-.062	-1.009
1104	.280	.135	.847	-.115	3203	-.370	.134	.011	-.942
1105	.124	.103	.551	-.263	3204	-.414	.150	-.083	-1.318
1201	.180	.068	.491	-.027	3205	-.286	.096	-.032	-.826
1202	.199	.075	.557	-.050	3206	-.241	.123	.074	-.908
1301	.184	.063	.485	.044	3301	-.247	.079	-.021	-.550
1302	.200	.070	.488	-.033	3302	-.266	.100	.006	-.856
1303	.227	.083	.522	.008	3303	-.174	.089	.045	-.578
1304	.030	.077	.296	-.269	3304	-.183	.078	.110	-.532
1401	.097	.044	.297	-.041	3401	-.208	.080	.048	-.601
1402	.187	.062	.479	.027	3402	-.125	.068	.059	-.541
1403	.191	.074	.526	-.009	3403	-.109	.053	.082	-.362
1404	-.011	.077	.310	-.275	3501	-.141	.053	.029	-.418
1501	.173	.056	.382	-.014	3502	-.070	.037	.069	-.272
1502	.197	.063	.459	.050	3601	-.116	.043	.011	-.370
1503	.195	.074	.488	.023	4101	-.082	.028	.062	-.230
1504	-.012	.079	.314	-.350	4102	-.145	.034	-.009	-.373
1601	.240	.075	.568	.071	4103	-.177	.060	-.023	-.478
1602	.230	.078	.562	.053	4104	-.271	.081	-.066	-.575
1603	.241	.095	.664	.002	4105	-.318	.069	-.133	-.652
1604	.064	.098	.462	-.269	4106	-.223	.064	-.045	-.531
1701	.241	.085	.657	.071	4107	-.231	.065	-.042	-.567
1702	.268	.100	.734	.035	4201	-.143	.036	.020	-.306
1703	-.060	.081	.304	-.337	4202	-.148	.037	.015	-.352
1801	.171	.057	.444	.042	4203	-.178	.066	.011	-.643
1802	.185	.072	.504	-.003	4204	-.300	.102	-.027	-.687
1803	.204	.094	.616	-.101	4205	-.377	.081	-.151	-.744
1804	.127	.100	.651	-.180	4206	-.245	.075	-.014	-.632
2101	.004	.091	.307	-.415	4207	-.257	.071	-.086	-.581
2102	-.028	.093	.290	-.376	4301	-.157	.050	-.015	-.432
2103	-.292	.114	.076	-.844	4302	-.150	.039	-.006	-.329
2201	-.019	.111	.297	-.672	4303	-.177	.068	.009	-.578
2202	-.064	.127	.365	-.547	4304	-.368	.131	-.023	-.869
2203	-.290	.148	.329	-.877	4305	-.449	.104	-.180	-.875
2301	.102	.069	.456	-.439	4306	-.282	.080	.020	-.607
2302	.125	.078	.412	-.414	4307	-.294	.069	-.109	-.578
2303	-.079	.060	.222	-.436	4401	-.428	.107	-.149	-.906
2401	-.027	.032	.107	-.137	4402	-.330	.107	.042	-.815
2402	-.052	.032	.077	-.187	4403	-.403	.108	-.092	-.818
2403	-.090	.041	.124	-.281	4404	-.398	.084	-.166	-.771

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 73

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.212	.110	.068	-.966	5302	-.216	.074	-.035	-.746
4502	-.152	.053	.023	-.438	5401	-.272	.080	-.033	-.718
4503	-.152	.055	.023	-.510	5402	-.195	.067	-.005	-.703
4504	-.456	.172	-.035	-1.067	5501	-.286	.092	.015	-.882
4505	-.543	.135	-.192	-1.182	5502	-.281	.097	.044	-.762
4506	-.467	.120	-.142	-.942	5503	-.286	.114	.083	-.724
4507	-.516	.185	-.075	-1.385	6101	-.171	.037	-.017	-.331
4508	-.606	.166	-.214	-1.331	6102	-.215	.039	-.080	-.337
4509	-.449	.097	-.196	-1.007	6103	-.185	.040	-.029	-.328
4601	-.178	.073	.077	-.580	6201	-.190	.043	.030	-.346
4602	-.144	.052	.042	-.507	6202	-.110	.039	.036	-.254
4603	-.277	.162	.071	-.958	6203	-.148	.041	0.000	-.316
4604	-.619	.177	-.127	-1.290	6301	-.218	.041	-.045	-.404
4605	-.476	.126	-.119	-1.108	6302	-.105	.044	.098	-.262
4701	-.189	.093	.140	-.924	6303	-.138	.049	.071	-.364
4702	-.159	.074	.077	-.657	6401	-.091	.043	.077	-.239
4703	-.315	.190	.060	-1.081	6402	-.094	.053	.089	-.299
4704	-.706	.197	-.146	-1.419	6403	-.133	.062	.210	-.426
4705	-.512	.128	-.152	-1.037	6501	-.083	.053	.135	-.290
4801	-.200	.106	.106	-.895	6502	-.059	.071	.198	-.316
4802	-.211	.137	.139	-.989	6503	-.102	.082	.169	-.439
4803	-.709	.266	-.032	-1.567	6601	-.210	.066	-.008	-.492
4804	-.583	.146	-.172	-1.108	6602	-.132	.063	.180	-.643
4901	-.267	.175	.174	-1.354	6603	-.171	.076	.169	-.581
4902	-.521	.301	.024	-2.296	6701	-.200	.116	.210	-.738
4903	-.664	.177	-.199	-1.422	6702	-.190	.106	.109	-.732
4904	-.362	.255	.048	-2.009	6703	-.214	.144	.253	-1.119
4905	-.843	.261	-.085	-1.930	6801	-.307	.146	.011	-1.130
4906	-.465	.292	.047	-1.849	6802	-.361	.163	.035	-1.196
4907	-.789	.228	-.208	-1.586	6803	-.374	.163	.121	-.992
4908	-.589	.295	-.062	-1.745	6804	-.390	.229	.116	-1.856
4909	-.877	.318	-.214	-2.320	6901	-.368	.153	.060	-2.161
4910	-.676	.311	-.085	-1.930	6902	-.377	.143	-.062	-1.370
4911	-.778	.306	-.149	-2.119	6903	-.410	.156	.012	-1.800
4912	-.696	.286	-.101	-2.522	6904	-.470	.153	.009	-1.148
5101	-.253	.054	-.048	-.453	6905	-.588	.185	-.070	-1.564
5102	-.254	.062	-.094	-.549	7101	-.260	.058	-.101	-.490
5103	-.234	.059	-.076	-.552	7102	-.209	.041	-.085	-.426
5104	-.175	.037	.008	-.337	7103	-.364	.095	-.127	-.761
5201	-.282	.069	-.098	-.643	8101	-.061	.067	.257	-.240
5202	-.234	.072	-.035	-.609	8102	.064	.095	.505	-.206
5301	-.269	.072	-.060	-.625	8103	-.114	.071	.157	-.433

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 75

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.104	.064	.402	-.105	3101	-.416	.159	-.016	-1.176
1102	.174	.098	.631	-.115	3201	-.383	.113	-.098	-.960
1103	.232	.116	.717	-.204	3202	-.301	.086	-.016	-.738
1104	.281	.135	.797	-.084	3203	-.334	.126	-.010	-1.023
1105	.128	.101	.516	-.257	3204	-.389	.143	.013	-.992
1201	.195	.073	.553	-.021	3205	-.266	.088	-.031	-.698
1202	.214	.079	.556	-.041	3206	-.250	.133	.106	-.910
1301	.197	.063	.472	.052	3301	-.229	.081	.010	-.534
1302	.201	.071	.596	.038	3302	-.252	.105	.092	-.692
1303	.223	.084	.597	.043	3303	-.164	.090	.077	-.611
1304	.030	.075	.457	-.250	3304	-.170	.076	.034	-.463
1401	.103	.043	.349	-.089	3401	-.184	.072	.025	-.534
1402	.197	.065	.473	.041	3402	-.100	.060	.065	-.423
1403	.202	.075	.504	.010	3403	-.093	.050	.093	-.361
1404	.001	.073	.305	-.226	3501	-.124	.047	.022	-.371
1501	.185	.059	.454	.004	3502	-.062	.036	.078	-.274
1502	.200	.070	.521	.034	3601	-.105	.043	.024	-.321
1503	.202	.078	.506	.003	4101	-.070	.029	.072	-.240
1504	.003	.079	.328	-.346	4102	-.146	.031	-.015	-.306
1601	.244	.084	.705	.084	4103	-.160	.047	-.032	-.458
1602	.243	.072	.593	.050	4104	-.237	.079	-.053	-.563
1603	.260	.093	.640	.034	4105	-.307	.073	-.092	-.719
1604	.084	.098	.487	-.240	4106	-.205	.061	-.005	-.476
1701	.257	.080	.713	.052	4107	-.221	.061	-.003	-.497
1702	.282	.101	.667	.044	4201	-.145	.032	-.030	-.334
1703	-.043	.080	.300	-.340	4202	-.145	.031	-.012	-.269
1801	.182	.050	.382	.052	4203	-.160	.051	.002	-.468
1802	.191	.067	.488	.006	4204	-.261	.096	-.030	-.635
1803	.207	.091	.592	-.133	4205	-.363	.081	-.119	-.659
1804	.132	.094	.479	-.151	4206	-.229	.070	.056	-.504
2101	.013	.088	.293	-.410	4207	-.246	.069	-.063	-.578
2102	-.020	.091	.345	-.380	4301	-.156	.047	-.014	-.364
2103	-.288	.111	.102	-.819	4302	-.142	.036	-.018	-.400
2201	-.003	.117	.430	-1.069	4303	-.154	.054	.024	-.476
2202	-.049	.130	.538	-.596	4304	-.291	.131	.069	-.756
2203	-.287	.149	.222	-.887	4305	-.444	.113	-.092	-.953
2301	.118	.069	.476	-.164	4306	-.264	.080	.053	-.579
2302	.142	.079	.442	-.316	4307	-.284	.074	-.077	-.587
2303	-.071	.060	.145	-.401	4401	-.431	.113	-.128	-.968
2401	-.018	.032	.138	-.149	4402	-.319	.105	.006	-.813
2402	-.041	.031	.099	-.169	4403	-.405	.113	-.065	-.884
2403	-.074	.042	.138	-.245	4404	-.395	.084	-.155	-.738

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 75

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.223	.107	.063	-.774	5302	-.249	.079	-.062	-.574
4502	-.153	.051	-.009	-.412	5401	-.302	.075	-.053	-.723
4503	-.139	.041	.015	-.378	5402	-.212	.075	-.053	-.619
4504	-.386	.171	.068	-1.034	5501	-.297	.081	-.029	-.666
4505	-.542	.150	-.140	-1.167	5502	-.296	.089	.050	-.666
4506	-.463	.129	-.143	-1.112	5503	-.306	.109	.158	-.782
4507	-.530	.199	-.071	-1.401	6101	-.183	.032	-.074	-.301
4508	-.595	.163	-.242	-1.323	6102	-.227	.037	-.099	-.385
4509	-.469	.103	-.179	-.873	6103	-.198	.038	-.065	-.349
4601	-.180	.066	.005	-.640	6201	-.185	.042	.035	-.364
4602	-.136	.042	.054	-.444	6202	-.107	.039	.117	-.292
4603	-.208	.124	.038	-.957	6203	-.156	.038	-.020	-.323
4604	-.620	.172	-.138	-1.453	6301	-.216	.044	-.006	-.482
4605	-.478	.121	-.148	-.984	6302	-.096	.042	.131	-.338
4701	-.185	.072	.063	-.763	6303	-.147	.044	.026	-.332
4702	-.138	.043	.057	-.462	6401	-.086	.039	.054	-.240
4703	-.226	.147	.110	-1.040	6402	-.083	.049	.140	-.296
4704	-.666	.204	-.080	-1.437	6403	-.139	.052	.059	-.355
4705	-.509	.128	-.155	-1.111	6501	-.073	.048	.138	-.296
4801	-.189	.086	.117	-.732	6502	-.044	.060	.174	-.311
4802	-.168	.084	.098	-.766	6503	-.106	.068	.158	-.397
4803	-.647	.290	.008	-1.574	6601	-.197	.063	.020	-.654
4804	-.582	.144	-.202	-1.374	6602	-.116	.046	.077	-.334
4901	-.229	.122	.086	-1.081	6603	-.160	.054	.131	-.404
4902	-.386	.260	.062	-1.565	6701	-.148	.099	.084	-.706
4903	-.657	.172	-.220	-1.373	6702	-.141	.077	.114	-.639
4904	-.262	.185	.051	-1.425	6703	-.181	.103	.167	-.936
4905	-.849	.262	-.188	-2.100	6801	-.237	.137	.087	-.917
4906	-.378	.254	.083	-1.847	6802	-.280	.157	.083	-.936
4907	-.768	.217	-.215	-1.675	6803	-.289	.167	.095	-1.123
4908	-.493	.298	-.063	-1.675	6804	-.291	.199	.168	-1.473
4909	-.871	.304	-.135	-2.119	6901	-.340	.160	.171	-1.222
4910	-.591	.326	-.006	-1.767	6902	-.376	.173	.086	-2.146
4911	-.817	.304	-.078	-2.148	6903	-.404	.160	.077	-1.156
4912	-.751	.300	-.105	-2.009	6904	-.471	.145	.170	-1.303
5101	-.263	.059	-.090	-.528	6905	-.616	.190	.020	-1.700
5102	-.269	.062	-.120	-.570	7101	-.281	.051	-.150	-.520
5103	-.253	.062	-.105	-.528	7102	-.222	.037	-.096	-.419
5104	-.179	.034	-.036	-.373	7103	-.373	.096	-.090	-.792
5201	-.290	.065	-.113	-.664	8101	-.039	.064	.286	-.203
5202	-.270	.074	-.063	-.586	8102	.080	.089	.487	-.161
5301	-.300	.070	-.051	-.718	8103	-.081	.063	.149	-.406

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 77

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.109	.066	.457	-.108	3101	-.393	.138	.039	-1.072
1102	.184	.098	.646	-.150	3201	-.401	.116	-.102	-.945
1103	.244	.116	.742	-.118	3202	-.308	.083	-.089	-.734
1104	.291	.134	.889	-.094	3203	-.352	.117	-.005	-.890
1105	.128	.094	.428	-.168	3204	-.410	.147	-.036	-1.089
1201	.179	.067	.529	-.003	3205	-.274	.091	-.041	-.795
1202	.198	.074	.504	.003	3206	-.257	.135	.091	-1.003
1301	.178	.063	.447	.011	3301	-.245	.079	.020	-.538
1302	.199	.066	.457	.023	3302	-.283	.098	.018	-.799
1303	.220	.077	.519	.005	3303	-.183	.087	.038	-.576
1304	.038	.073	.305	-.253	3304	-.183	.075	.029	-.496
1401	.105	.041	.273	-.059	3401	-.207	.079	.017	-.590
1402	.185	.062	.496	.026	3402	-.132	.066	.076	-.501
1403	.188	.071	.502	.017	3403	-.115	.056	.052	-.428
1404	.002	.072	.275	-.276	3501	-.140	.049	.006	-.382
1501	.179	.060	.441	-.003	3502	-.077	.038	.065	-.358
1502	.191	.063	.450	.042	3601	-.118	.043	.008	-.373
1503	.188	.073	.481	-.029	4101	-.086	.028	.049	-.203
1504	-.004	.073	.334	-.226	4102	-.145	.026	-.014	-.243
1601	.232	.077	.599	.044	4103	-.150	.036	.002	-.395
1602	.240	.079	.610	.061	4104	-.204	.074	-.024	-.604
1603	.254	.099	.696	.008	4105	-.284	.073	-.104	-.627
1604	.084	.100	.467	-.215	4106	-.189	.058	.027	-.423
1701	.250	.086	.672	.059	4107	-.214	.054	-.053	-.596
1702	.283	.109	.810	.012	4201	-.148	.032	-.051	-.321
1703	-.056	.079	.255	-.361	4202	-.143	.028	-.021	-.288
1801	.172	.058	.426	.020	4203	-.146	.035	.027	-.408
1802	.189	.075	.485	-.029	4204	-.205	.087	-.021	-.654
1803	.197	.091	.560	-.054	4205	-.335	.092	-.069	-.633
1804	.121	.098	.494	-.284	4206	-.208	.074	.098	-.512
2101	-.009	.090	.281	-.428	4207	-.243	.067	-.071	-.613
2102	-.041	.093	.271	-.359	4301	-.168	.042	-.029	-.381
2103	-.313	.105	.086	-.833	4302	-.145	.030	.008	-.309
2201	-.039	.120	.359	-.825	4303	-.139	.040	.092	-.423
2202	-.085	.129	.432	-.645	4304	-.225	.113	.008	-.780
2203	-.320	.141	.202	-.899	4305	-.420	.116	-.101	-.886
2301	.102	.070	.516	-.270	4306	-.250	.083	.078	-.639
2302	.121	.084	.481	-.384	4307	-.277	.074	-.074	-.615
2303	-.083	.063	.152	-.423	4401	-.432	.117	-.151	-1.109
2401	-.026	.032	.173	-.162	4402	-.314	.111	.009	-.833
2402	-.052	.030	.103	-.156	4403	-.406	.116	-.068	-.809
2403	-.090	.041	.083	-.246	4404	-.392	.087	-.169	-.682

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 77

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.245	.114	.030	-.934	5302	-.252	.077	-.088	-.616
4502	-.157	.054	.020	-.435	5401	-.302	.069	-.078	-.686
4503	-.134	.036	.023	-.426	5402	-.225	.078	-.031	-.674
4504	-.304	.167	.020	-.991	5501	-.315	.074	-.088	-.611
4505	-.548	.144	-.163	-1.187	5502	-.317	.062	-.063	-.643
4506	-.472	.128	-.077	-1.006	5503	-.328	.100	-.010	-.731
4507	-.548	.208	.038	-1.429	6101	-.184	.030	-.081	-.276
4508	-.624	.159	-.190	-1.270	6102	-.228	.034	-.081	-.350
4509	-.451	.102	-.188	-.899	6103	-.198	.036	-.052	-.338
4601	-.185	.061	.018	-.461	6201	-.180	.040	.003	-.318
4602	-.134	.038	.008	-.360	6202	-.101	.040	.076	-.257
4603	-.171	.099	.026	-.776	6203	-.159	.037	-.024	-.296
4604	-.582	.167	-.107	-1.404	6301	-.211	.041	-.036	-.409
4605	-.457	.117	-.161	-.895	6302	-.088	.041	.112	-.273
4701	-.185	.069	.017	-.532	6303	-.148	.040	.019	-.285
4702	-.131	.039	.044	-.447	6401	-.086	.036	.057	-.209
4703	-.180	.110	.158	-.747	6402	-.077	.045	.079	-.290
4704	-.590	.204	.030	-1.372	6403	-.141	.049	.060	-.318
4705	-.477	.122	-.154	-.929	6501	-.069	.048	.158	-.211
4801	-.193	.079	.134	-.880	6502	-.038	.061	.245	-.266
4802	-.148	.059	.068	-.752	6503	-.106	.067	.151	-.444
4803	-.472	.262	.035	-1.785	6601	-.194	.060	.004	-.474
4804	-.522	.135	-.170	-1.107	6602	-.114	.042	.072	-.403
4901	-.207	.094	.086	-1.044	6603	-.163	.052	.049	-.477
4902	-.304	.224	.033	-1.526	6701	-.127	.083	.096	-.578
4903	-.600	.155	-.214	-1.295	6702	-.130	.072	.146	-.619
4904	-.213	.138	.039	-1.274	6703	-.162	.074	.152	-.674
4905	-.768	.235	-.151	-1.753	6801	-.197	.125	.103	-1.013
4906	-.286	.197	.120	-1.556	6802	-.233	.148	.155	-1.049
4907	-.736	.234	-.184	-1.682	6803	-.236	.147	.137	-1.065
4908	-.385	.274	-.051	-1.926	6804	-.250	.170	.063	-1.442
4909	-.848	.337	-.096	-2.163	6901	-.321	.162	.145	-1.608
4910	-.442	.276	.014	-1.570	6902	-.354	.168	.105	-2.078
4911	-.740	.274	-.134	-1.743	6903	-.394	.152	.142	-1.146
4912	-.696	.281	-.155	-1.933	6904	-.432	.151	.140	-1.165
5101	-.252	.054	-.104	-.619	6905	-.576	.200	.006	-1.585
5102	-.281	.064	-.105	-.560	7101	-.273	.054	-.145	-.477
5103	-.269	.070	-.103	-.572	7102	-.217	.040	-.100	-.414
5104	-.182	.037	-.046	-.429	7103	-.409	.098	-.106	-.789
5201	-.301	.065	-.112	-.614	8101	-.017	.065	.281	-.197
5202	-.271	.069	-.087	-.554	8102	.112	.090	.590	-.114
5301	-.302	.063	-.117	-.740	8103	-.064	.062	.137	-.391

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 79

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.117	.066	.456	-.071	3101	-.376	.132	-.041	-1.245
1102	.188	.095	.601	-.079	3201	-.399	.126	-.115	-1.019
1103	.247	.112	.678	-.011	3202	-.304	.087	-.058	-.833
1104	.293	.132	.831	-.089	3203	-.340	.113	.017	-.924
1105	.122	.092	.403	-.227	3204	-.401	.148	-.059	-1.257
1201	.175	.066	.504	.002	3205	-.271	.093	-.023	-.780
1202	.195	.073	.531	.024	3206	-.248	.132	.067	-.918
1301	.172	.059	.447	.030	3301	-.234	.074	-.017	-.512
1302	.198	.071	.553	.035	3302	-.273	.095	-.018	-.771
1303	.215	.080	.537	.011	3303	-.185	.089	.068	-.677
1304	.039	.072	.324	-.192	3304	-.181	.075	.033	-.622
1401	.109	.043	.280	-.062	3401	-.204	.075	0.000	-.497
1402	.183	.063	.457	-.026	3402	-.139	.063	.053	-.441
1403	.184	.071	.478	-.014	3403	-.117	.052	.064	-.379
1404	.002	.069	.263	-.236	3501	-.136	.048	.027	-.395
1501	.179	.062	.492	.015	3502	-.078	.039	.083	-.322
1502	.177	.059	.433	.044	3601	-.112	.040	.026	-.315
1503	.172	.069	.536	.011	4101	-.086	.026	.033	-.209
1504	-.007	.071	.288	-.256	4102	-.146	.023	-.037	-.286
1601	.218	.070	.557	.061	4103	-.143	.030	.034	-.378
1602	.222	.074	.534	.055	4104	-.173	.054	-.003	-.486
1603	.237	.093	.701	-.020	4105	-.255	.069	-.072	-.581
1604	.077	.097	.484	-.253	4106	-.179	.057	.013	-.442
1701	.231	.080	.600	.065	4107	-.209	.051	-.072	-.466
1702	.269	.106	.822	-.027	4201	-.150	.030	-.048	-.295
1703	-.056	.078	.380	-.339	4202	-.145	.025	-.055	-.274
1801	.157	.055	.389	.032	4203	-.144	.033	.007	-.391
1802	.173	.071	.500	-.147	4204	-.184	.073	-.004	-.625
1803	.191	.087	.598	-.064	4205	-.305	.087	-.082	-.652
1804	.113	.091	.622	-.177	4206	-.195	.068	.033	-.523
2101	-.015	.094	.274	-.469	4207	-.237	.064	-.052	-.489
2102	-.050	.095	.254	-.559	4301	-.172	.041	-.045	-.387
2103	-.290	.106	.059	-1.051	4302	-.144	.027	-.030	-.289
2201	-.037	.117	.298	-.769	4303	-.137	.032	.015	-.325
2202	-.078	.122	.425	-.595	4304	-.194	.096	-.004	-.701
2203	-.301	.132	.124	-.896	4305	-.416	.121	-.091	-.838
2301	.097	.069	.468	-.204	4306	-.250	.082	.043	-.559
2302	.115	.087	.478	-.422	4307	-.280	.073	-.070	-.743
2303	-.087	.066	.197	-.472	4401	-.424	.117	-.100	-.974
2401	-.028	.030	.092	-.164	4402	-.299	.106	.066	-.740
2402	-.049	.029	.073	-.191	4403	-.399	.113	-.084	-.883
2403	-.088	.037	.056	-.221	4404	-.382	.083	-.129	-.709

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 79

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.273	.113	.015	-.833	5302	-.263	.077	-.086	-.594
4502	-.167	.057	-.010	-.448	5401	-.309	.065	-.074	-.605
4503	-.133	.028	.003	-.388	5402	-.226	.082	-.026	-.641
4504	-.239	.139	.060	-.920	5501	-.314	.073	-.077	-.593
4505	-.515	.146	.010	-1.071	5502	-.317	.082	-.048	-.701
4506	-.448	.130	-.097	-1.011	5503	-.333	.103	.027	-.832
4507	-.526	.210	-.019	-1.464	6101	-.181	.029	-.086	-.304
4508	-.592	.160	-.226	-1.200	6102	-.224	.035	-.107	-.359
4509	-.434	.099	-.153	-.895	6103	-.195	.037	-.041	-.347
4601	-.194	.060	.001	-.471	6201	-.176	.040	0.000	-.325
4602	-.134	.038	-.013	-.481	6202	-.098	.039	.074	-.307
4603	-.145	.068	.055	-.649	6203	-.160	.036	.140	-.278
4604	-.555	.168	.030	-1.311	6301	-.210	.041	.045	-.381
4605	-.460	.115	-.139	-.926	6302	-.088	.040	.105	-.271
4701	-.197	.063	-.004	-.424	6303	-.146	.039	.026	-.379
4702	-.130	.033	.016	-.330	6401	-.082	.035	.105	-.191
4703	-.148	.072	.039	-.674	6402	-.072	.042	.092	-.233
4704	-.536	.208	-.009	-1.337	6403	-.143	.046	.071	-.338
4705	-.462	.122	-.130	-.920	6501	-.059	.048	.167	-.208
4801	-.191	.069	.022	-.697	6502	-.022	.060	.185	-.269
4802	-.138	.046	.046	-.521	6503	-.108	.064	.152	-.353
4803	-.420	.250	.049	-1.419	6601	-.198	.064	.048	-.523
4804	-.496	.132	-.163	-1.113	6602	-.109	.042	.059	-.477
4901	-.200	.084	.096	-.782	6603	-.162	.049	.089	-.451
4902	-.233	.169	.072	-1.263	6701	-.109	.086	.125	-.531
4903	-.546	.148	-.181	-1.154	6702	-.120	.066	.083	-.660
4904	-.179	.099	.046	-.931	6703	-.156	.073	.203	-.851
4905	-.685	.228	-.105	-1.540	6801	-.167	.113	.098	-.847
4906	-.246	.152	.072	-1.335	6802	-.198	.136	.096	-.912
4907	-.708	.215	-.088	-1.623	6803	-.205	.138	.159	-.836
4908	-.291	.225	-.028	-1.824	6804	-.208	.128	.223	-1.235
4909	-.808	.334	-.046	-2.071	6901	-.287	.159	.125	-1.701
4910	-.377	.259	-.004	-1.941	6902	-.332	.172	.262	-1.620
4911	-.723	.271	-.150	-2.084	6903	-.372	.160	.304	-1.170
4912	-.693	.290	-.087	-2.036	6904	-.410	.151	.223	-1.265
5101	-.260	.053	-.112	-.590	6905	-.550	.191	.074	-1.406
5102	-.283	.063	-.119	-.558	7101	-.270	.054	-.099	-.570
5103	-.274	.069	-.123	-.576	7102	-.220	.041	-.110	-.462
5104	-.182	.035	-.045	-.412	7103	-.429	.104	-.138	-.812
5201	-.301	.062	-.132	-.538	8101	-.002	.064	.290	-.177
5202	-.280	.069	-.099	-.596	8102	.123	.089	.566	-.123
5301	-.307	.063	-.099	-.644	8103	-.051	.055	.153	-.356

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 81

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.137	.065	.462	-.071	3101	-.368	.127	-.076	-1.101
1102	.211	.096	.567	-.047	3201	-.416	.129	-.114	-1.038
1103	.269	.113	.661	-.126	3202	-.292	.082	-.090	-.796
1104	.311	.123	.773	-.131	3203	-.325	.105	-.020	-.788
1105	.136	.089	.491	-.211	3204	-.390	.140	-.073	-1.059
1201	.178	.068	.501	-.003	3205	-.261	.089	-.036	-.694
1202	.198	.075	.541	.009	3206	-.238	.122	.044	-.810
1301	.167	.061	.497	.009	3301	-.230	.076	.014	-.507
1302	.175	.061	.431	.005	3302	-.290	.100	-.009	-.913
1303	.189	.072	.459	-.008	3303	-.191	.083	.046	-.583
1304	.049	.067	.290	-.182	3304	-.186	.075	.026	-.558
1401	.107	.038	.299	-.039	3401	-.204	.080	.039	-.591
1402	.161	.053	.438	.033	3402	-.154	.070	.071	-.485
1403	.161	.061	.548	-.081	3403	-.125	.059	.084	-.463
1404	.016	.066	.264	-.270	3501	-.134	.051	.041	-.416
1501	.168	.057	.433	-.005	3502	-.081	.039	.074	-.275
1502	.177	.058	.387	.029	3601	-.102	.038	.027	-.322
1503	.173	.067	.427	-.002	4101	-.088	.024	.005	-.223
1504	.006	.068	.283	-.237	4102	-.147	.023	-.038	-.268
1601	.217	.074	.550	.035	4103	-.141	.028	.020	-.310
1602	.226	.075	.624	.032	4104	-.159	.050	-.032	-.509
1603	.241	.095	.737	.020	4105	-.231	.070	-.063	-.558
1604	.087	.098	.494	-.365	4106	-.162	.053	.027	-.410
1701	.233	.081	.656	.052	4107	-.195	.048	-.041	-.438
1702	.257	.099	.717	-.035	4201	-.148	.028	-.063	-.273
1703	-.050	.077	.231	-.293	4202	-.140	.024	-.042	-.283
1801	.143	.048	.363	.018	4203	-.137	.030	-.011	-.339
1802	.160	.064	.454	-.084	4204	-.161	.061	.015	-.520
1803	.189	.088	.567	-.070	4205	-.273	.086	-.069	-.576
1804	.114	.092	.576	-.176	4206	-.172	.068	.068	-.443
2101	-.039	.089	.228	-.442	4207	-.235	.062	-.047	-.544
2102	-.074	.089	.296	-.389	4301	-.176	.043	-.033	-.440
2103	-.281	.093	.026	-.685	4302	-.144	.026	-.050	-.298
2201	-.063	.117	.242	-.819	4303	-.132	.027	-.017	-.307
2202	-.107	.117	.380	-.640	4304	-.172	.084	.056	-.588
2203	-.301	.119	.164	-.793	4305	-.360	.121	-.041	-.854
2301	.095	.065	.436	-.202	4306	-.225	.082	.149	-.574
2302	.109	.088	.554	-.457	4307	-.264	.069	-.056	-.794
2303	-.092	.063	.187	-.404	4401	-.419	.118	-.122	-1.086
2401	-.032	.028	.077	-.160	4402	-.289	.106	.012	-.732
2402	-.054	.028	.087	-.182	4403	-.397	.112	-.065	-.880
2403	-.098	.038	.050	-.311	4404	-.368	.082	-.130	-.731

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 81

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.281	.104	.038	-.835	5302	-.284	.085	-.085	-.626
4502	-.166	.052	-.008	-.475	5401	-.321	.064	-.135	-.590
4503	-.130	.026	-.011	-.246	5402	-.238	.086	-.057	-.692
4504	-.195	.122	.051	-.865	5501	-.338	.070	-.085	-.736
4505	-.497	.159	-.044	-1.160	5502	-.342	.077	-.088	-.638
4506	-.456	.142	-.121	-1.263	5503	-.363	.095	-.060	-.719
4507	-.562	.237	-.023	-1.727	6101	-.185	.030	-.082	-.292
4508	-.599	.164	-.142	-1.430	6102	-.231	.037	-.084	-.361
4509	-.443	.103	-.160	-.978	6103	-.202	.036	-.060	-.366
4601	-.194	.052	-.024	-.437	6201	-.169	.042	.058	-.301
4602	-.130	.034	-.035	-.426	6202	-.092	.039	.144	-.255
4603	-.124	.043	.050	-.505	6203	-.162	.036	.030	-.301
4604	-.535	.183	-.030	-1.340	6301	-.204	.041	-.046	-.361
4605	-.455	.117	-.139	-1.070	6302	-.078	.038	.097	-.244
4701	-.200	.063	-.008	-.445	6303	-.149	.039	.057	-.316
4702	-.124	.033	.033	-.315	6401	-.071	.037	.114	-.178
4703	-.140	.069	.080	-.625	6402	-.058	.044	.259	-.199
4704	-.455	.201	.014	-1.165	6403	-.149	.044	.034	-.300
4705	-.424	.106	-.155	-.891	6501	-.049	.048	.174	-.180
4801	-.187	.066	.020	-.668	6502	-.011	.061	.309	-.210
4802	-.128	.036	.018	-.487	6503	-.106	.062	.114	-.337
4803	-.323	.204	.066	-1.142	6601	-.181	.068	.133	-.499
4804	-.471	.112	-.175	-1.037	6602	-.094	.036	.037	-.288
4901	-.187	.070	.030	-.609	6603	-.161	.041	.016	-.369
4902	-.176	.111	.015	-.991	6701	-.074	.066	.121	-.425
4903	-.513	.142	-.172	-1.275	6702	-.093	.051	.109	-.488
4904	-.152	.061	.033	-.711	6703	-.141	.052	.193	-.536
4905	-.619	.231	-.030	-1.442	6801	-.123	.099	.097	-.775
4906	-.212	.110	.027	-1.234	6802	-.146	.123	.123	-.876
4907	-.621	.213	-.154	-1.784	6803	-.153	.119	.123	-.947
4908	-.234	.176	-.033	-1.239	6804	-.166	.107	.072	-1.089
4909	-.681	.322	-.071	-2.033	6901	-.242	.150	.186	-1.488
4910	-.312	.223	.003	-1.651	6902	-.289	.171	.297	-1.344
4911	-.664	.265	-.026	-1.624	6903	-.328	.160	.258	-1.080
4912	-.645	.298	.080	-1.849	6904	-.349	.163	.340	-1.101
5101	-.276	.054	-.108	-.521	6905	-.477	.203	.280	-1.862
5102	-.306	.061	-.136	-.616	7101	-.276	.051	-.129	-.527
5103	-.303	.072	-.126	-.685	7102	-.221	.037	-.118	-.433
5104	-.186	.036	-.082	-.419	7103	-.418	.104	-.112	-.810
5201	-.320	.061	-.142	-.749	8101	-0.000	.062	.277	-.186
5202	-.296	.071	-.123	-.641	8102	.117	.086	.533	-.142
5301	-.318	.060	-.147	-.572	8103	-.041	.054	.201	-.352

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 90

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.141	.073	.411	-.315	3101	-.274	.086	-.052	-.835
1102	.187	.112	.543	-.391	3201	-.372	.123	-.098	-.981
1103	.221	.133	.725	-.409	3202	-.286	.084	-.067	-.690
1104	.259	.144	.771	-.391	3203	-.283	.084	-.061	-.714
1105	.137	.071	.500	-.077	3204	-.380	.149	.063	-.978
1201	.155	.062	.427	-.129	3205	-.247	.090	.027	-.728
1202	.166	.068	.466	-.106	3206	-.209	.111	.051	-.865
1301	.135	.046	.329	.024	3301	-.164	.064	.012	-.473
1302	.149	.055	.379	-.034	3302	-.291	.095	-.042	-.768
1303	.158	.062	.384	.007	3303	-.194	.083	.028	-.597
1304	.081	.051	.287	-.074	3304	-.162	.068	.098	-.467
1401	.117	.035	.249	-.003	3401	-.189	.070	.019	-.551
1402	.138	.047	.323	.003	3402	-.173	.068	.077	-.563
1403	.137	.053	.332	.016	3403	-.117	.056	.088	-.442
1404	.059	.049	.265	-.112	3501	-.132	.063	.028	-.485
1501	.150	.060	.411	-.092	3502	-.088	.045	.079	-.283
1502	.150	.047	.372	-.001	3601	-.087	.040	.028	-.307
1503	.147	.052	.388	.009	4101	-.079	.023	.018	-.189
1504	.045	.051	.251	-.176	4102	-.136	.020	-.068	-.234
1601	.188	.063	.451	.037	4103	-.128	.018	-.056	-.223
1602	.200	.066	.460	.022	4104	-.120	.022	-.020	-.238
1603	.220	.085	.540	.025	4105	-.134	.041	-.039	-.466
1604	.115	.090	.463	-.135	4106	-.102	.040	.059	-.320
1701	.197	.066	.478	.046	4107	-.159	.039	-.039	-.353
1702	.256	.098	.690	.027	4201	-.153	.028	-.066	-.343
1703	-.032	.066	.271	-.237	4202	-.138	.022	-.068	-.287
1801	.116	.044	.403	.010	4203	-.127	.019	-.061	-.218
1802	.148	.061	.426	-.033	4204	-.122	.025	-.026	-.297
1803	.162	.079	.583	-.068	4205	-.148	.056	-.019	-.470
1804	.097	.076	.451	-.153	4206	-.101	.058	.151	-.307
2101	-.093	.096	.153	-.604	4207	-.211	.059	-.050	-.526
2102	-.114	.079	.124	-.460	4301	-.184	.037	-.074	-.373
2103	-.237	.074	-.045	-.600	4302	-.137	.027	-.063	-.383
2201	-.107	.108	.207	-.759	4303	-.123	.019	-.020	-.223
2202	-.145	.091	.152	-.534	4304	-.118	.034	.007	-.344
2203	-.256	.085	.065	-.699	4305	-.205	.098	.025	-.695
2301	.083	.055	.311	-.144	4306	-.144	.075	.197	-.418
2302	.076	.097	.488	-.408	4307	-.228	.057	-.072	-.468
2303	-.094	.069	.153	-.604	4401	-.349	.121	-.056	-.850
2401	-.030	.023	.076	-.119	4402	-.229	.089	.052	-.656
2402	-.045	.025	.109	-.186	4403	-.340	.103	-.062	-.786
2403	-.082	.034	.058	-.265	4404	-.292	.082	-.071	-.626

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION= 90

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.343	.126	-.043	-1.232	5302	-.348	.094	-.100	-.857
4502	-.180	.064	-.035	-.454	5401	-.362	.066	-.139	-.716
4503	-.114	.024	-.013	-.278	5402	-.292	.117	-.030	-.821
4504	-.119	.049	.035	-.581	5501	-.385	.080	-.144	-.800
4505	-.271	.139	.006	-.957	5502	-.401	.088	-.153	-.851
4506	-.387	.123	-.084	-.881	5503	-.446	.111	-.102	-1.100
4507	-.554	.232	-.025	-1.424	6101	-.189	.031	-.063	-.316
4508	-.506	.122	-.091	-.976	6102	-.242	.043	-.045	-.406
4509	-.381	.092	-.123	-.804	6103	-.204	.044	-.021	-.391
4601	-.206	.050	-.058	-.428	6201	-.153	.048	.082	-.352
4602	-.122	.039	-.026	-.347	6202	-.067	.047	.240	-.208
4603	-.105	.025	-.026	-.285	6203	-.164	.043	.039	-.298
4604	-.235	.150	.088	-.869	6301	-.188	.050	-.009	-.396
4605	-.314	.093	-.036	-.763	6302	-.053	.045	.169	-.195
4701	-.205	.054	-.027	-.455	6303	-.154	.044	.079	-.357
4702	-.106	.036	.013	-.417	6401	-.038	.038	.178	-.162
4703	-.096	.029	.016	-.379	6402	-.019	.046	.228	-.177
4704	-.195	.145	.035	-.933	6403	-.160	.044	.046	-.373
4705	-.286	.096	-.050	-.781	6501	-.010	.049	.207	-.139
4801	-.191	.053	-.010	-.428	6502	.036	.062	.333	-.132
4802	-.093	.029	.043	-.422	6503	-.106	.064	.241	-.306
4803	-.119	.091	.086	-.726	6601	-.107	.082	.168	-.515
4804	-.293	.102	.053	-.698	6602	-.045	.036	.111	-.172
4901	-.185	.059	0.000	-.453	6603	-.143	.032	-.018	-.292
4902	-.090	.042	.065	-.624	6701	-.010	.042	.156	-.255
4903	-.303	.122	.007	-.902	6702	-.036	.036	.130	-.184
4904	-.103	.050	.030	-.481	6703	-.109	.035	.055	-.358
4905	-.286	.201	.072	-1.217	6801	-.004	.060	.229	-.460
4906	-.166	.063	.009	-.568	6802	-.006	.070	.259	-.644
4907	-.328	.164	.039	-1.218	6803	-.016	.067	.235	-.521
4908	-.103	.062	.030	-.554	6804	-.081	.039	.073	-.237
4909	-.254	.214	.048	-1.565	6901	-.073	.142	.424	-.844
4910	-.164	.079	.017	-.682	6902	-.083	.192	.551	-.943
4911	-.332	.206	.081	-1.404	6903	-.084	.215	.575	-.671
4912	-.290	.235	.118	-1.371	6904	-.074	.232	.640	-.969
5101	-.308	.057	-.140	-.572	6905	-.148	.227	.542	-1.268
5102	-.323	.064	-.138	-.629	7101	-.283	.055	-.145	-.581
5103	-.342	.078	-.148	-.671	7102	-.228	.049	-.114	-.646
5104	-.194	.061	-.033	-.658	7103	-.478	.117	-.132	-.905
5201	-.332	.063	-.154	-.604	8101	.052	.060	.330	-.088
5202	-.343	.075	-.141	-.937	8102	.122	.077	.619	-.039
5301	-.352	.064	-.181	-.760	8103	-0.000	.042	.247	-.229

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=105

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.064	.130	.241	-1.057	3101	-.279	.070	-.082	-.666
1102	-.104	.144	.369	-1.172	3201	-.342	.114	-.063	-1.122
1103	-.132	.148	.368	-1.068	3202	-.280	.078	-.082	-.621
1104	-.157	.143	.420	-.722	3203	-.282	.074	-.063	-.675
1105	-.061	.148	.311	-.755	3204	-.289	.131	.033	-.984
1201	-.053	.129	.235	-.812	3205	-.217	.091	-.004	-.800
1202	-.053	.130	.250	-.892	3206	-.167	.086	.052	-.690
1301	.023	.066	.210	-.344	3301	-.205	.118	.025	-.766
1302	.012	.077	.209	-.429	3302	-.296	.085	-.064	-.719
1303	.016	.070	.206	-.414	3303	-.218	.076	-.004	-.547
1304	-.009	.087	.206	-.497	3304	-.147	.063	.074	-.480
1401	.051	.045	.198	-.206	3401	-.267	.101	-.010	-.703
1402	.047	.044	.198	-.247	3402	-.227	.074	-.018	-.526
1403	.044	.037	.173	-.229	3403	-.124	.054	.064	-.450
1404	.016	.054	.173	-.237	3501	-.284	.110	0.000	-.751
1501	.020	.048	.211	-.146	3502	-.104	.058	.095	-.521
1502	.073	.040	.223	-.128	3601	-.201	.088	.007	-.539
1503	.076	.038	.219	-.052	4101	-.044	.030	.107	-.322
1504	.051	.038	.168	-.091	4102	-.104	.024	.004	-.228
1601	.097	.049	.386	-.028	4103	-.091	.022	.023	-.172
1602	.112	.055	.335	-.066	4104	-.081	.022	.025	-.173
1603	.160	.069	.410	-.031	4105	-.078	.025	.032	-.150
1604	.134	.071	.405	-.070	4106	-.062	.028	.104	-.169
1701	.118	.056	.387	-.024	4107	-.108	.028	.029	-.283
1702	.184	.081	.474	-.042	4201	-.118	.035	.032	-.255
1703	-.040	.066	.255	-.305	4202	-.107	.027	-.007	-.247
1801	.045	.033	.210	-.079	4203	-.085	.025	.009	-.281
1802	.083	.058	.316	-.164	4204	-.076	.025	.022	-.190
1803	.130	.082	.472	-.183	4205	-.066	.029	.055	-.177
1804	.069	.077	.378	-.182	4206	-.060	.035	.091	-.164
2101	-.153	.085	.034	-.631	4207	-.118	.035	.007	-.301
2102	-.187	.078	.003	-.757	4301	-.153	.054	.104	-.662
2103	-.270	.066	-.066	-.529	4302	-.109	.038	.023	-.339
2201	-.145	.111	.372	-.700	4303	-.080	.026	.033	-.285
2202	-.243	.089	.098	-.654	4304	-.063	.028	.039	-.159
2203	-.279	.069	-.094	-.602	4305	-.050	.038	.092	-.183
2301	.050	.046	.250	-.095	4306	-.016	.047	.170	-.223
2302	.020	.089	.369	-.392	4307	-.125	.033	.006	-.316
2303	-.138	.081	.109	-.637	4401	-.026	.072	.180	-.474
2401	-.045	.020	.025	-.136	4402	-.009	.093	.298	-.396
2402	-.057	.024	.058	-.164	4403	-.024	.093	.249	-.434
2403	-.088	.032	.052	-.243	4404	-.083	.038	.069	-.277

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=105

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.428	.156	.029	-1.244	5302	-.352	.093	-.053	-.786
4502	-.172	.075	.071	-.502	5401	-.362	.075	-.171	-.744
4503	-.075	.033	.053	-.330	5402	-.338	.118	-.015	-.851
4504	-.047	.029	.068	-.151	5501	-.398	.084	-.086	-.798
4505	-.034	.036	.092	-.274	5502	-.424	.093	-.188	-.862
4506	-.041	.153	.350	-.631	5503	-.489	.122	-.192	-1.099
4507	-.062	.259	.696	-1.006	6101	-.161	.031	-.032	-.286
4508	-.012	.231	.740	-.665	6102	-.206	.046	-.036	-.385
4509	-.022	.151	.464	-.716	6103	-.159	.054	.093	-.367
4601	-.228	.062	-.050	-.592	6201	-.107	.054	.177	-.293
4602	-.105	.054	.048	-.401	6202	-.004	.062	.358	-.152
4603	-.050	.024	.053	-.147	6203	-.117	.057	.156	-.281
4604	-.026	.031	.091	-.205	6301	-.130	.057	.162	-.340
4605	-.025	.060	.130	-.268	6302	.014	.060	.463	-.143
4701	-.219	.070	-.027	-.621	6303	-.108	.062	.182	-.317
4702	-.093	.062	.063	-.407	6401	.021	.048	.272	-.113
4703	-.040	.029	.062	-.212	6402	.047	.061	.376	-.093
4704	-.032	.029	.084	-.320	6403	-.127	.059	.173	-.326
4705	-.038	.050	.088	-.346	6501	.096	.062	.409	-.056
4801	-.205	.064	-.032	-.578	6502	.110	.069	.400	-.063
4802	-.063	.052	.076	-.383	6503	-.082	.072	.198	-.292
4803	-.029	.026	.084	-.151	6601	.066	.063	.316	-.177
4804	-.038	.043	.082	-.347	6602	.043	.051	.275	-.107
4901	-.210	.069	-.017	-.556	6603	-.102	.044	.105	-.280
4902	-.032	.040	.094	-.317	6701	.036	.037	.188	-.135
4903	-.046	.038	.076	-.244	6702	.059	.057	.350	-.122
4904	-.142	.096	.148	-.715	6703	-.051	.045	.143	-.229
4905	-.029	.030	.075	-.228	6801	.091	.065	.368	-.053
4906	-.201	.079	.052	-.653	6802	.104	.070	.407	-.050
4907	-.046	.046	.111	-.347	6803	.116	.080	.439	-.053
4908	-.160	.101	.091	-.649	6804	-.005	.059	.284	-.185
4909	-.027	.039	.114	-.347	6901	.080	.079	.450	-.173
4910	-.250	.102	.045	-.722	6902	.157	.108	.627	-.210
4911	-.059	.055	.104	-.399	6903	.212	.128	.729	-.295
4912	-.252	.142	.112	-.904	6904	.235	.136	.747	-.217
5101	-.297	.058	-.136	-.696	6905	.183	.132	.621	-.389
5102	-.311	.064	-.120	-.619	7101	-.250	.063	-.044	-.622
5103	-.328	.071	-.107	-.625	7102	-.184	.063	.030	-.580
5104	-.193	.083	-.017	-.677	7103	-.412	.127	.026	-.869
5201	-.320	.069	-.141	-.798	8101	.116	.078	.627	-.057
5202	-.336	.079	-.098	-.789	8102	.041	.047	.265	-.095
5301	-.349	.074	-.173	-.788	8103	-.011	.042	.242	-.210

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=120

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.253	.121	.019	-1.238	3101	-.298	.090	-.079	-.761
1102	-.256	.102	-.016	-1.174	3201	-.453	.248	-.052	-2.044
1103	-.243	.086	0.000	-.785	3202	-.295	.084	-.048	-.743
1104	-.259	.085	-.034	-.812	3203	-.305	.087	-.088	-.730
1105	-.270	.112	.045	-.865	3204	-.276	.122	-.039	-.920
1201	-.269	.128	.052	-1.009	3205	-.259	.116	.030	-.901
1202	-.259	.115	.056	-1.094	3206	-.242	.146	.161	-1.143
1301	-.217	.114	.067	-.878	3301	-.261	.097	-.039	-.871
1302	-.265	.118	.131	-.904	3302	-.290	.088	-.036	-.922
1303	-.277	.119	.103	-.776	3303	-.255	.091	-.006	-.809
1304	-.272	.119	.031	-.798	3304	-.216	.105	.037	-.761
1401	-.155	.106	.132	-.754	3401	-.261	.081	-.021	-.745
1402	-.132	.094	.131	-.526	3402	-.252	.072	-.027	-.540
1403	-.178	.139	.169	-.877	3403	-.203	.085	.016	-.621
1404	-.209	.103	.040	-.693	3501	-.228	.069	.007	-.603
1501	-.094	.087	.143	-.966	3502	-.175	.057	.024	-.608
1502	-.045	.065	.205	-.526	3601	-.189	.062	-.009	-.538
1503	-.146	.105	.104	-.664	4101	.015	.044	.172	-.166
1504	-.127	.065	.064	-.410	4102	-.037	.035	.102	-.160
1601	.006	.052	.233	-.166	4103	-.031	.032	.108	-.141
1602	.003	.069	.297	-.266	4104	-.022	.034	.117	-.124
1603	-.023	.107	.375	-.456	4105	-.009	.041	.145	-.130
1604	-.076	.070	.192	-.348	4106	.010	.049	.212	-.145
1701	.043	.063	.315	-.122	4107	-.051	.042	.115	-.194
1702	.110	.102	.553	-.217	4201	-.054	.050	.147	-.253
1703	-.198	.077	.193	-.785	4202	-.039	.036	.121	-.150
1801	-.003	.049	.213	-.232	4203	-.023	.036	.130	-.151
1802	.070	.098	.534	-.271	4204	-.007	.039	.140	-.150
1803	-.010	.145	.614	-.722	4205	.016	.047	.201	-.177
1804	-.189	.103	.221	-.606	4206	.028	.057	.305	-.183
2101	-.123	.086	.163	-.657	4207	-.044	.048	.180	-.220
2102	-.210	.098	.150	-.938	4301	-.098	.082	.203	-.508
2103	-.298	.082	-.076	-.813	4302	-.048	.043	.121	-.248
2201	-.070	.071	.296	-.615	4303	-.018	.039	.186	-.174
2202	-.180	.103	.244	-.782	4304	.005	.042	.180	-.119
2203	-.303	.083	-.061	-.798	4305	.044	.055	.276	-.119
2301	-.018	.048	.216	-.166	4306	.090	.068	.377	-.124
2302	.002	.061	.245	-.220	4307	-.047	.049	.161	-.206
2303	-.157	.069	.074	-.462	4401	.118	.075	.402	-.164
2401	-.071	.028	.031	-.180	4402	.187	.099	.594	-.176
2402	-.094	.027	-.004	-.208	4403	.189	.098	.635	-.154
2403	-.127	.041	.007	-.331	4404	.046	.072	.279	-.155

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=120

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.443	.180	.118	-1.229	5302	-.283	.090	-.013	-.735
4502	-.127	.085	.124	-.476	5401	-.310	.081	-.082	-.735
4503	-.027	.045	.145	-.298	5402	-.283	.108	.090	-.723
4504	.008	.041	.184	-.128	5501	-.326	.086	-.072	-.706
4505	.040	.049	.206	-.115	5502	-.357	.097	-.079	-.789
4506	.115	.089	.449	-.204	5503	-.433	.132	-.045	-1.068
4507	.262	.144	.777	-.299	6101	-.127	.042	.109	-.282
4508	.300	.138	.774	-.335	6102	-.139	.063	.201	-.417
4509	.196	.115	.643	-.111	6103	-.083	.075	.414	-.333
4601	-.224	.078	.078	-.714	6201	-.051	.064	.247	-.343
4602	-.057	.070	.125	-.465	6202	.069	.084	.480	-.220
4603	-.013	.038	.134	-.181	6203	-.033	.079	.327	-.244
4604	-.007	.040	.158	-.132	6301	-.065	.063	.184	-.393
4605	-.076	.037	.072	-.216	6302	.089	.084	.493	-.135
4701	-.217	.080	.138	-.615	6303	-.039	.075	.283	-.262
4702	-.061	.066	.163	-.472	6401	.083	.059	.406	-.058
4703	-.021	.040	.130	-.210	6402	.101	.073	.487	-.105
4704	-.028	.034	.105	-.164	6403	-.059	.076	.322	-.280
4705	-.119	.042	.010	-.318	6501	.159	.078	.547	-.022
4801	-.233	.078	.078	-.548	6502	.160	.083	.543	-.045
4802	-.059	.072	.165	-.407	6503	-.038	.078	.306	-.294
4803	-.035	.036	.128	-.161	6601	.087	.064	.327	-.255
4804	-.145	.050	.026	-.327	6602	.111	.072	.421	-.058
4901	-.282	.096	.111	-.724	6603	-.050	.068	.283	-.297
4902	-.060	.054	.147	-.377	6701	.009	.052	.271	-.181
4903	-.173	.058	.024	-.394	6702	.134	.078	.486	-.043
4904	-.179	.122	.167	-.766	6703	-.019	.076	.399	-.271
4905	-.095	.042	.085	-.383	6801	.154	.079	.523	-.030
4906	-.346	.107	.013	-.832	6802	.162	.083	.562	-.045
4907	-.183	.055	-.009	-.394	6803	.191	.097	.564	-.018
4908	-.329	.129	.046	-.827	6804	.025	.091	.496	-.244
4909	-.122	.068	.059	-.596	6901	-.012	.076	.342	-.219
4910	-.393	.122	.017	-.964	6902	.068	.113	.612	-.250
4911	-.207	.081	-.014	-.603	6903	.140	.131	.814	-.277
4912	-.444	.134	-.049	-1.076	6904	.208	.151	.795	-.202
5101	-.272	.077	-.102	-.760	6905	.186	.144	.717	-.267
5102	-.272	.074	-.004	-.702	7101	-.216	.075	.066	-.600
5103	-.260	.078	.013	-.610	7102	-.144	.071	.051	-.697
5104	-.168	.081	.058	-.483	7103	-.328	.155	.148	-.816
5201	-.282	.076	-.108	-.657	8101	.039	.094	.598	-.286
5202	-.291	.084	-.042	-.715	8102	-.083	.063	.231	-.261
5301	-.302	.081	-.072	-.703	8103	-.162	.073	.031	-.505

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=135

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.352	.081	-.110	-.840	3101	-.247	.054	-.098	-.492
1102	-.367	.073	-.155	-.672	3201	-.211	.052	-.036	-.434
1103	-.355	.067	-.175	-.588	3202	-.213	.051	-.051	-.460
1104	-.347	.066	-.173	-.575	3203	-.239	.051	-.098	-.495
1105	-.340	.069	-.116	-.695	3204	-.233	.053	-.076	-.509
1201	-.369	.083	-.142	-1.225	3205	-.272	.075	-.057	-.601
1202	-.366	.078	-.140	-1.027	3206	-.315	.099	-.031	-.803
1301	-.360	.082	-.119	-.810	3301	-.210	.056	-.003	-.506
1302	-.384	.077	-.161	-.797	3302	-.226	.052	-.052	-.548
1303	-.386	.077	-.172	-.730	3303	-.235	.050	-.093	-.424
1304	-.341	.072	-.113	-.639	3304	-.255	.066	-.100	-.601
1401	-.340	.092	-.054	-.795	3401	-.219	.054	-.046	-.648
1402	-.308	.087	-.042	-.666	3402	-.238	.045	-.104	-.569
1403	-.400	.097	-.042	-.840	3403	-.240	.046	-.116	-.458
1404	-.333	.073	-.116	-.658	3501	-.227	.053	-.049	-.645
1501	-.389	.231	.054	-1.461	3502	-.238	.049	-.097	-.446
1502	-.218	.093	.113	-.639	3601	-.240	.062	-.033	-.607
1503	-.349	.075	-.093	-.670	4101	.070	.053	.378	-.131
1504	-.264	.058	-.075	-.482	4102	.032	.052	.244	-.126
1601	-.168	.074	.131	-.440	4103	.032	.049	.241	-.109
1602	-.182	.084	.133	-.506	4104	.039	.051	.227	-.135
1603	-.256	.080	.051	-.545	4105	.056	.061	.333	-.149
1604	-.223	.063	-.022	-.789	4106	.080	.073	.375	-.154
1701	-.139	.085	.242	-.613	4107	-.021	.057	.206	-.234
1702	-.111	.119	.424	-.484	4201	.007	.060	.241	-.246
1703	-.220	.051	-.069	-.489	4202	.033	.053	.276	-.148
1801	-.166	.087	.104	-.581	4203	.042	.050	.263	-.096
1802	-.114	.127	.352	-.531	4204	.055	.054	.256	-.154
1803	-.268	.093	.184	-.554	4205	.084	.066	.341	-.135
1804	-.273	.063	-.085	-.639	4206	.104	.083	.458	-.171
2101	-.170	.067	.154	-.560	4207	.005	.065	.254	-.231
2102	-.302	.115	-.010	-.919	4301	-.036	.096	.287	-.704
2103	-.283	.068	-.088	-.646	4302	.027	.056	.305	-.204
2201	-.135	.060	.103	-.354	4303	.042	.051	.259	-.108
2202	-.175	.103	.246	-.549	4304	.057	.055	.282	-.118
2203	-.255	.052	-.084	-.501	4305	.101	.071	.382	-.106
2301	-.102	.066	.166	-.334	4306	.146	.089	.533	-.108
2302	-.132	.081	.149	-.531	4307	.003	.064	.303	-.188
2303	-.248	.055	-.090	-.470	4401	.155	.094	.532	-.161
2401	-.129	.042	.034	-.324	4402	.219	.122	.691	-.131
2402	-.151	.047	.007	-.446	4403	.240	.122	.717	-.096
2403	-.227	.055	-.063	-.486	4404	.085	.082	.392	-.145

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=135

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.330	.198	.180	-1.406	5302	-.165	.089	.104	-.692
4502	-.045	.090	.221	-.450	5401	-.213	.083	.006	-.924
4503	.027	.055	.250	-.201	5402	-.155	.098	.157	-.668
4504	.045	.055	.276	-.126	5501	-.216	.090	.092	-.868
4505	.060	.060	.279	-.119	5502	-.219	.094	.115	-.731
4506	.048	.095	.490	-.231	5503	-.265	.126	.092	-1.027
4507	.178	.156	.898	-.193	6101	-.048	.052	.209	-.195
4508	.234	.147	.818	-.139	6102	-.049	.077	.306	-.273
4509	.203	.128	.637	-.193	6103	.014	.085	.373	-.219
4601	-.175	.094	.185	-.665	6201	.001	.059	.279	-.200
4602	.003	.069	.223	-.333	6202	.120	.095	.620	-.094
4603	.018	.047	.201	-.154	6203	.049	.089	.486	-.210
4604	-.007	.047	.134	-.193	6301	.011	.065	.258	-.285
4605	-.174	.039	-.034	-.326	6302	.131	.090	.570	-.142
4701	-.202	.096	.194	-.611	6303	.057	.087	.440	-.225
4702	-.019	.072	.227	-.361	6401	.150	.070	.470	-.006
4703	-.011	.050	.194	-.193	6402	.158	.080	.510	-.028
4704	-.049	.042	.121	-.188	6403	.043	.088	.535	-.180
4705	-.229	.043	-.068	-.379	6501	.186	.082	.571	.004
4801	-.219	.096	.147	-.628	6502	.181	.088	.580	-.045
4802	-.043	.076	.181	-.408	6503	.053	.083	.495	-.259
4803	-.058	.044	.119	-.221	6601	.023	.075	.373	-.212
4804	-.259	.045	-.103	-.443	6602	.173	.092	.656	-.051
4901	-.297	.114	.125	-.904	6603	.020	.086	.422	-.215
4902	-.079	.059	.154	-.377	6701	-.038	.060	.221	-.249
4903	-.282	.050	-.114	-.471	6702	.189	.101	.732	-.049
4904	-.180	.137	.208	-.772	6703	.030	.096	.453	-.264
4905	-.156	.044	.019	-.365	6801	.186	.094	.625	-.027
4906	-.379	.121	.157	-.770	6802	.175	.094	.641	-.060
4907	-.272	.050	-.105	-.493	6803	.216	.113	.740	-.063
4908	-.346	.143	.069	-.844	6804	.046	.111	.599	-.306
4909	-.197	.071	.004	-.509	6901	-.121	.081	.283	-.362
4910	-.449	.118	.040	-.918	6902	-.083	.117	.352	-.482
4911	-.309	.082	-.092	-.634	6903	.016	.133	.547	-.394
4912	-.483	.101	-.138	-.926	6904	.067	.142	.592	-.328
5101	-.190	.076	0.000	-.742	6905	.073	.140	.577	-.324
5102	-.196	.077	.045	-.556	7101	-.112	.069	.100	-.429
5103	-.167	.078	.103	-.550	7102	-.037	.060	.180	-.446
5104	-.083	.067	.157	-.443	7103	-.146	.157	.303	-.678
5201	-.215	.080	.012	-.893	8101	-.155	.100	.255	-.665
5202	-.187	.088	.063	-.669	8102	-.267	.062	-.045	-.544
5301	-.213	.082	-.021	-.596	8103	-.341	.096	-.007	-.777

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=150

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.313	.056	-.146	-.601	3101	-.265	.046	-.125	-.464
1102	-.321	.053	-.165	-.591	3201	-.237	.045	-.101	-.484
1103	-.315	.051	-.155	-.580	3202	-.264	.054	-.106	-.527
1104	-.315	.051	-.138	-.592	3203	-.265	.048	-.138	-.464
1105	-.325	.054	-.161	-.665	3204	-.262	.046	-.134	-.491
1201	-.332	.056	-.165	-.622	3205	-.267	.049	-.150	-.536
1202	-.327	.054	-.171	-.546	3206	-.275	.048	-.118	-.501
1301	-.325	.056	-.161	-.567	3301	-.258	.051	-.100	-.528
1302	-.317	.052	-.159	-.558	3302	-.268	.047	-.126	-.503
1303	-.322	.051	-.155	-.559	3303	-.264	.041	-.152	-.424
1304	-.309	.052	-.137	-.531	3304	-.272	.043	-.168	-.580
1401	-.311	.056	-.115	-.580	3401	-.257	.052	-.061	-.620
1402	-.312	.046	-.165	-.522	3402	-.264	.044	-.143	-.451
1403	-.324	.048	-.171	-.558	3403	-.260	.043	-.128	-.443
1404	-.307	.046	-.144	-.482	3501	-.255	.049	-.098	-.747
1501	-.362	.118	-.141	-1.028	3502	-.253	.043	-.100	-.432
1502	-.294	.046	-.143	-.446	3601	-.253	.052	-.062	-.546
1503	-.300	.045	-.153	-.466	4101	.142	.063	.451	-.054
1504	-.285	.045	-.138	-.473	4102	.094	.064	.339	-.082
1601	-.285	.045	-.162	-.451	4103	.092	.062	.348	-.086
1602	-.285	.047	-.057	-.455	4104	.096	.066	.344	-.096
1603	-.287	.042	-.134	-.484	4105	.118	.079	.427	-.127
1604	-.306	.080	-.138	-.878	4106	.138	.094	.562	-.128
1701	-.285	.047	-.165	-.475	4107	.010	.074	.312	-.210
1702	-.283	.050	-.024	-.493	4201	.067	.068	.359	-.155
1703	-.291	.065	-.128	-.665	4202	.085	.063	.387	-.091
1801	-.282	.050	-.103	-.488	4203	.086	.058	.315	-.063
1802	-.288	.053	-.051	-.564	4204	.095	.062	.323	-.053
1803	-.294	.048	-.153	-.497	4205	.125	.075	.405	-.102
1804	-.299	.055	-.146	-.585	4206	.155	.094	.513	-.135
2101	-.275	.047	-.095	-.443	4207	.031	.076	.351	-.219
2102	-.286	.049	-.116	-.527	4301	.041	.083	.375	-.334
2103	-.278	.047	-.155	-.445	4302	.080	.063	.305	-.150
2201	-.256	.043	-.031	-.429	4303	.080	.059	.329	-.076
2202	-.264	.042	-.113	-.448	4304	.098	.063	.354	-.070
2203	-.266	.042	-.153	-.460	4305	.142	.082	.460	-.127
2301	-.242	.049	-.034	-.458	4306	.194	.105	.635	-.088
2302	-.266	.047	-.076	-.479	4307	.014	.075	.292	-.210
2303	-.266	.043	-.137	-.469	4401	.158	.101	.581	-.196
2401	-.236	.067	-.016	-.554	4402	.207	.126	.719	-.183
2402	-.234	.055	-.080	-.552	4403	.229	.131	.784	-.174
2403	-.261	.048	-.134	-.531	4404	.055	.089	.411	-.236

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=150

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.095	.159	.367	-.909	5302	-.044	.086	.247	-.407
4502	.050	.085	.329	-.249	5401	-.116	.087	.224	-.505
4503	.071	.065	.270	-.177	5402	-.023	.092	.268	-.411
4504	.062	.064	.288	-.106	5501	-.102	.089	.308	-.535
4505	.070	.070	.312	-.269	5502	-.087	.096	.293	-.746
4506	-.003	.087	.387	-.250	5503	-.094	.122	.366	-1.021
4507	.097	.143	.696	-.244	6101	.043	.061	.291	-.120
4508	.157	.142	.689	-.249	6102	.046	.090	.463	-.235
4509	.151	.121	.578	-.190	6103	.096	.096	.501	-.190
4601	-.096	.103	.372	-.571	6201	.057	.070	.420	-.169
4602	.054	.070	.325	-.290	6202	.159	.097	.667	-.105
4603	.039	.053	.242	-.108	6203	.118	.095	.477	-.108
4604	-.007	.050	.196	-.208	6301	.078	.066	.368	-.143
4605	-.219	.034	-.096	-.365	6302	.169	.096	.592	-.046
4701	-.114	.107	.230	-.611	6303	.112	.094	.593	-.194
4702	.031	.067	.298	-.269	6401	.162	.078	.566	-.004
4703	.012	.058	.226	-.171	6402	.154	.082	.617	-.100
4704	-.047	.047	.125	-.194	6403	.102	.095	.647	-.148
4705	-.262	.036	-.142	-.400	6501	.173	.078	.537	-.043
4801	-.179	.111	.266	-.607	6502	.159	.079	.538	-.013
4802	-.011	.073	.211	-.578	6503	.105	.089	.560	-.129
4803	-.057	.046	.116	-.254	6601	-.039	.081	.238	-.393
4804	-.272	.037	-.148	-.421	6602	.182	.090	.608	-.037
4901	-.240	.124	.219	-.712	6603	.082	.098	.498	-.250
4902	-.073	.062	.150	-.358	6701	-.057	.076	.245	-.351
4903	-.283	.041	-.132	-.457	6702	.197	.104	.671	-.040
4904	-.147	.128	.194	-.687	6703	.070	.109	.558	-.185
4905	-.162	.043	.013	-.372	6801	.177	.100	.623	-.063
4906	-.351	.132	.188	-.924	6802	.136	.096	.535	-.090
4907	-.288	.046	-.134	-.519	6803	.190	.118	.720	-.094
4908	-.320	.145	.059	-1.037	6804	.056	.114	.622	-.256
4909	-.210	.075	-.024	-.555	6901	-.164	.065	.100	-.380
4910	-.400	.108	.019	-.930	6902	-.152	.094	.227	-.442
4911	-.308	.068	-.134	-.585	6903	-.070	.105	.366	-.398
4912	-.416	.075	-.171	-.913	6904	-.030	.125	.486	-.369
5101	-.122	.085	.175	-.594	6905	-.004	.133	.474	-.384
5102	-.094	.086	.154	-.560	7101	-.018	.069	.178	-.410
5103	-.048	.074	.163	-.474	7102	.045	.067	.360	-.306
5104	.020	.064	.262	-.263	7103	.020	.131	.574	-.499
5201	-.137	.086	.126	-.532	8101	-.263	.151	.151	-1.188
5202	-.079	.091	.239	-.433	8102	-.322	.059	-.102	-.586
5301	-.127	.084	.254	-.604	8103	-.384	.099	-.120	-.833

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=165

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.242	.043	-.101	-.456	3101	-.275	.046	-.159	-.511
1102	-.250	.042	-.107	-.459	3201	-.239	.046	-.095	-.509
1103	-.242	.040	-.101	-.447	3202	-.261	.045	-.141	-.509
1104	-.242	.040	-.100	-.446	3203	-.261	.042	-.150	-.457
1105	-.257	.046	-.104	-.593	3204	-.267	.044	-.146	-.472
1201	-.261	.045	-.122	-.521	3205	-.278	.048	-.153	-.582
1202	-.255	.044	-.126	-.523	3206	-.295	.058	-.123	-.590
1301	-.256	.045	-.131	-.498	3301	-.245	.044	-.091	-.469
1302	-.259	.043	-.153	-.414	3302	-.256	.041	-.137	-.452
1303	-.264	.042	-.157	-.413	3303	-.255	.039	-.141	-.407
1304	-.257	.043	-.151	-.429	3304	-.273	.050	-.154	-.498
1401	-.268	.044	-.151	-.426	3401	-.242	.045	-.117	-.459
1402	-.263	.040	-.144	-.407	3402	-.252	.041	-.140	-.416
1403	-.266	.040	-.143	-.405	3403	-.251	.043	-.140	-.511
1404	-.258	.040	-.135	-.398	3501	-.240	.045	-.110	-.471
1501	-.324	.088	-.157	-.850	3502	-.244	.042	-.120	-.454
1502	-.260	.037	-.160	-.389	3601	-.241	.049	-.071	-.518
1503	-.265	.038	-.154	-.395	4101	.188	.074	.480	.015
1504	-.256	.038	-.149	-.394	4102	.129	.067	.365	-.088
1601	-.258	.035	-.153	-.386	4103	.121	.067	.351	-.060
1602	-.273	.040	-.163	-.431	4104	.125	.071	.381	-.102
1603	-.281	.040	-.171	-.484	4105	.149	.086	.501	-.122
1604	-.293	.067	-.150	-.662	4106	.203	.109	.712	-.131
1701	-.274	.040	-.159	-.426	4107	.053	.084	.404	-.177
1702	-.279	.038	-.184	-.432	4201	.133	.078	.452	-.134
1703	-.295	.051	-.150	-.512	4202	.137	.072	.475	-.045
1801	-.274	.038	-.174	-.434	4203	.119	.065	.390	-.072
1802	-.279	.038	-.178	-.426	4204	.125	.068	.426	-.049
1803	-.278	.038	-.180	-.468	4205	.155	.082	.512	-.142
1804	-.288	.042	-.171	-.438	4206	.190	.102	.658	-.114
2101	-.264	.033	-.175	-.371	4207	.059	.085	.376	-.194
2102	-.267	.034	-.175	-.385	4301	.108	.092	.482	-.260
2103	-.262	.039	-.144	-.438	4302	.124	.075	.380	-.119
2201	-.258	.037	-.147	-.377	4303	.115	.070	.328	-.072
2202	-.251	.037	-.135	-.376	4304	.112	.067	.394	-.092
2203	-.258	.042	-.132	-.446	4305	.148	.082	.499	-.131
2301	-.278	.042	-.140	-.434	4306	.200	.105	.603	-.141
2302	-.291	.044	-.180	-.542	4307	.018	.077	.321	-.265
2303	-.288	.047	-.169	-.523	4401	.145	.102	.555	-.145
2401	-.292	.052	-.140	-.538	4402	.185	.126	.768	-.200
2402	-.309	.063	-.140	-.640	4403	.202	.131	.666	-.212
2403	-.319	.068	-.141	-.780	4404	.040	.092	.389	-.258

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=165

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	.040	.122	.424	-.804	5302	.027	.079	.271	-.303
4502	.099	.076	.350	-.142	5401	-.041	.079	.274	-.486
4503	.095	.066	.335	-.078	5402	.052	.080	.380	-.260
4504	.069	.063	.301	-.206	5501	-.018	.086	.327	-.628
4505	.069	.069	.354	-.114	5502	.002	.088	.324	-.359
4506	-.036	.075	.283	-.250	5503	.013	.100	.428	-.620
4507	.034	.117	.567	-.260	6101	.114	.068	.434	-.069
4508	.083	.122	.544	-.188	6102	.130	.093	.486	-.111
4509	.083	.108	.577	-.298	6103	.145	.101	.580	-.126
4601	.004	.107	.335	-.498	6201	.115	.071	.381	-.076
4602	.086	.065	.330	-.140	6202	.171	.086	.546	-.121
4603	.048	.056	.271	-.117	6203	.135	.086	.547	-.066
4604	-.011	.051	.203	-.191	6301	.131	.064	.450	-.072
4605	-.227	.031	-.121	-.361	6302	.162	.083	.626	-.057
4701	-.032	.110	.471	-.478	6303	.135	.085	.489	-.076
4702	.055	.069	.338	-.233	6401	.166	.080	.535	-.004
4703	.027	.058	.294	-.130	6402	.157	.083	.614	-.037
4704	-.042	.046	.145	-.171	6403	.134	.085	.526	-.085
4705	-.255	.034	-.145	-.380	6501	.173	.074	.531	.006
4801	-.100	.120	.331	-.576	6502	.164	.074	.511	-.016
4802	.017	.070	.249	-.312	6503	.141	.092	.580	-.123
4803	-.047	.048	.117	-.191	6601	-.085	.071	.212	-.368
4804	-.253	.033	-.148	-.371	6602	.172	.102	.679	-.034
4901	-.163	.126	.314	-.685	6603	.128	.116	.620	-.150
4902	-.053	.059	.180	-.317	6701	-.091	.069	.139	-.320
4903	-.255	.036	-.141	-.404	6702	.175	.107	.722	-.079
4904	-.090	.107	.223	-.576	6703	.085	.110	.535	-.208
4905	-.142	.042	.039	-.355	6801	.156	.092	.632	-.164
4906	-.260	.125	.322	-.761	6802	.093	.089	.526	-.142
4907	-.254	.040	-.140	-.437	6803	.142	.112	.694	-.158
4908	-.235	.120	.134	-.791	6804	.065	.116	.567	-.251
4909	-.182	.061	.007	-.637	6901	-.193	.060	.087	-.432
4910	-.337	.105	.158	-.758	6902	-.213	.079	.099	-.490
4911	-.269	.055	-.108	-.488	6903	-.138	.086	.287	-.423
4912	-.355	.064	-.101	-.731	6904	-.093	.094	.308	-.398
5101	-.047	.098	.306	-.532	6905	-.059	.106	.295	-.387
5102	.009	.082	.283	-.471	7101	.075	.063	.305	-.215
5103	.042	.068	.283	-.324	7102	.112	.065	.451	-.100
5104	.087	.065	.314	-.221	7103	.121	.095	.478	-.348
5201	-.079	.102	.269	-.634	8101	-.385	.197	.025	-1.115
5202	-.001	.083	.269	-.372	8102	-.331	.065	-.155	-.635
5301	-.056	.080	.271	-.423	8103	-.385	.102	-.154	-.881

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=180

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.238	.042	-.115	-.492	3101	-.267	.045	-.106	-.437
1102	-.248	.040	-.120	-.469	3201	-.214	.045	-.070	-.394
1103	-.241	.039	-.107	-.440	3202	-.254	.045	-.074	-.436
1104	-.237	.041	-.116	-.451	3203	-.244	.040	-.112	-.388
1105	-.229	.042	-.085	-.403	3204	-.242	.043	-.086	-.443
1201	-.241	.040	-.118	-.439	3205	-.247	.046	-.064	-.464
1202	-.236	.039	-.128	-.431	3206	-.265	.066	-.071	-.669
1301	-.240	.038	-.129	-.421	3301	-.224	.040	-.061	-.411
1302	-.244	.037	-.135	-.384	3302	-.232	.036	-.106	-.379
1303	-.248	.037	-.146	-.382	3303	-.223	.034	-.109	-.373
1304	-.237	.038	-.123	-.379	3304	-.231	.040	-.088	-.458
1401	-.259	.040	-.126	-.421	3401	-.214	.050	-.071	-.445
1402	-.266	.040	-.167	-.425	3402	-.223	.044	-.092	-.405
1403	-.265	.038	-.161	-.417	3403	-.221	.042	-.109	-.414
1404	-.251	.038	-.140	-.399	3501	-.206	.046	-.071	-.388
1501	-.352	.113	-.146	-.968	3502	-.211	.040	-.088	-.387
1502	-.259	.038	-.132	-.393	3601	-.203	.044	-.054	-.405
1503	-.259	.039	-.141	-.400	4101	.224	.080	.576	.040
1504	-.243	.039	-.122	-.387	4102	.162	.074	.427	-.112
1601	-.260	.042	-.126	-.409	4103	.153	.072	.411	-.062
1602	-.265	.047	-.118	-.409	4104	.158	.077	.418	-.063
1603	-.278	.052	-.132	-.483	4105	.184	.092	.541	-.087
1604	-.247	.062	-.060	-.727	4106	.214	.107	.733	-.136
1701	-.266	.046	-.128	-.409	4107	.074	.084	.431	-.186
1702	-.266	.040	-.159	-.418	4201	.153	.077	.473	-.087
1703	-.292	.067	-.092	-.589	4202	.144	.068	.425	-.083
1801	-.260	.039	-.140	-.402	4203	.137	.068	.381	-.044
1802	-.264	.039	-.164	-.412	4204	.141	.072	.385	-.040
1803	-.278	.047	-.146	-.460	4205	.171	.086	.474	-.062
1804	-.301	.058	-.138	-.591	4206	.209	.108	.673	-.082
2101	-.247	.038	-.123	-.375	4207	.070	.089	.415	-.229
2102	-.253	.040	-.076	-.384	4301	.131	.092	.521	-.165
2103	-.262	.045	-.147	-.421	4302	.136	.077	.444	-.064
2201	-.226	.041	-.064	-.366	4303	.121	.073	.402	-.044
2202	-.219	.040	-.064	-.375	4304	.124	.071	.371	-.064
2203	-.233	.043	-.116	-.473	4305	.152	.085	.467	-.056
2301	-.221	.040	-.092	-.390	4306	.201	.109	.614	-.074
2302	-.234	.039	-.092	-.388	4307	.024	.081	.315	-.239
2303	-.235	.043	-.110	-.396	4401	.107	.092	.491	-.166
2401	-.233	.071	-.021	-.559	4402	.133	.111	.607	-.173
2402	-.254	.086	.018	-.628	4403	.149	.117	.614	-.180
2403	-.265	.081	-.033	-.730	4404	.010	.085	.337	-.244

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=180

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	.095	.098	.523	-.463	5302	.067	.068	.286	-.188
4502	.111	.071	.408	-.191	5401	.009	.069	.255	-.322
4503	.099	.064	.357	-.057	5402	.084	.077	.343	-.230
4504	.064	.061	.299	-.129	5501	.034	.079	.304	-.569
4505	.057	.066	.311	-.107	5502	.056	.078	.401	-.379
4506	-.066	.064	.218	-.245	5503	.069	.085	.404	-.316
4507	-.020	.089	.395	-.241	6101	.129	.067	.393	-.066
4508	.020	.099	.434	-.226	6102	.139	.097	.508	-.218
4509	.037	.091	.567	-.249	6103	.136	.081	.446	-.134
4601	.043	.100	.484	-.305	6201	.139	.050	.347	.012
4602	.083	.065	.377	-.150	6202	.151	.081	.556	-.034
4603	.040	.055	.281	-.115	6203	.125	.079	.490	-.155
4604	-.023	.051	.170	-.172	6301	.121	.074	.450	-.139
4605	-.232	.042	-.080	-.433	6302	.136	.076	.493	-.027
4701	.022	.103	.494	-.414	6303	.131	.079	.508	-.137
4702	.055	.068	.297	-.165	6401	.142	.075	.513	-.063
4703	.026	.054	.223	-.125	6402	.143	.072	.554	-.040
4704	-.048	.043	.103	-.179	6403	.133	.080	.477	-.124
4705	-.248	.036	-.135	-.394	6501	.141	.066	.446	-.006
4801	-.029	.111	.362	-.395	6502	.145	.071	.471	-.009
4802	.016	.064	.302	-.311	6503	.137	.080	.480	-.073
4803	-.055	.046	.155	-.179	6601	-.126	.060	.115	-.461
4804	-.254	.033	-.083	-.384	6602	.136	.078	.511	-.036
4901	-.102	.115	.328	-.617	6603	.115	.090	.531	-.139
4902	-.064	.053	.155	-.305	6701	-.110	.057	.109	-.346
4903	-.256	.035	-.136	-.413	6702	.131	.093	.680	-.086
4904	-.078	.088	.209	-.592	6703	.094	.099	.602	-.201
4905	-.149	.039	.027	-.372	6801	.140	.080	.647	-.067
4906	-.193	.124	.228	-.715	6802	.056	.070	.425	-.142
4907	-.243	.040	-.115	-.398	6803	.093	.095	.605	-.142
4908	-.185	.106	.138	-.626	6804	.027	.106	.513	-.221
4909	-.176	.056	.014	-.506	6901	-.214	.050	-.034	-.386
4910	-.262	.097	.076	-.669	6902	-.244	.063	.022	-.450
4911	-.255	.047	-.085	-.431	6903	-.187	.069	.095	-.417
4912	-.309	.055	-.132	-.520	6904	-.151	.075	.212	-.393
5101	-.005	.106	.358	-.683	6905	-.114	.084	.241	-.385
5102	.052	.078	.301	-.317	7101	.114	.047	.358	-.075
5103	.072	.067	.314	-.225	7102	.133	.053	.440	.012
5104	.110	.069	.352	-.080	7103	.160	.069	.446	-.034
5201	-.039	.097	.310	-.498	8101	-.553	.184	-.142	-1.253
5202	.048	.076	.271	-.292	8102	-.381	.074	-.066	-.860
5301	-.013	.075	.255	-.320	8103	-.412	.095	-.168	-.891

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=195

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.201	.042	-.045	-.452	3101	-.229	.048	-.111	-.510
1102	-.216	.041	-.054	-.462	3201	-.196	.045	-.063	-.581
1103	-.207	.042	-.010	-.476	3202	-.222	.050	-.076	-.488
1104	-.204	.040	-.069	-.500	3203	-.251	.054	-.105	-.664
1105	-.207	.042	-.079	-.424	3204	-.284	.060	-.138	-.603
1201	-.215	.042	-.106	-.419	3205	-.300	.062	-.150	-.570
1202	-.212	.042	-.100	-.435	3206	-.303	.069	-.088	-.636
1301	-.223	.046	-.096	-.670	3301	-.195	.045	-.031	-.431
1302	-.220	.041	-.106	-.401	3302	-.217	.042	-.082	-.394
1303	-.222	.039	-.087	-.392	3303	-.246	.052	-.102	-.587
1304	-.208	.039	-.075	-.379	3304	-.273	.054	-.142	-.664
1401	-.235	.054	-.108	-.691	3401	-.199	.048	-.058	-.732
1402	-.230	.039	-.078	-.373	3402	-.234	.043	-.120	-.471
1403	-.225	.039	-.091	-.350	3403	-.251	.045	-.109	-.461
1404	-.209	.040	-.075	-.335	3501	-.213	.048	-.057	-.471
1501	-.243	.063	-.070	-.590	3502	-.234	.043	-.117	-.406
1502	-.208	.038	-.069	-.343	3601	-.230	.049	-.054	-.468
1503	-.208	.036	-.073	-.349	4101	.199	.077	.548	-.015
1504	-.190	.037	-.079	-.328	4102	.144	.069	.424	-.056
1601	-.193	.037	-.072	-.335	4103	.135	.069	.388	-.085
1602	-.201	.040	-.081	-.361	4104	.139	.073	.405	-.114
1603	-.206	.038	-.013	-.364	4105	.164	.087	.555	-.131
1604	-.195	.043	-.007	-.401	4106	.213	.113	.720	-.091
1701	-.210	.039	-.097	-.415	4107	.061	.089	.397	-.249
1702	-.209	.037	-.054	-.379	4201	.158	.077	.458	-.029
1703	-.209	.045	-.052	-.434	4202	.142	.068	.358	-.019
1801	-.211	.038	-.091	-.444	4203	.126	.066	.400	-.073
1802	-.216	.038	-.070	-.376	4204	.127	.070	.412	-.062
1803	-.205	.039	-.082	-.379	4205	.156	.085	.481	-.108
1804	-.214	.042	-.042	-.549	4206	.192	.107	.641	-.115
2101	-.197	.034	-.088	-.314	4207	.050	.082	.371	-.168
2102	-.202	.039	-.055	-.407	4301	.129	.074	.513	-.115
2103	-.216	.047	-.042	-.479	4302	.120	.065	.378	-.056
2201	-.190	.039	.028	-.383	4303	.102	.062	.331	-.072
2202	-.189	.038	-.034	-.343	4304	.100	.068	.372	-.065
2203	-.219	.044	-.079	-.433	4305	.121	.083	.447	-.152
2301	-.196	.041	-.045	-.379	4306	.164	.106	.561	-.125
2302	-.210	.040	-.057	-.356	4307	.004	.079	.365	-.234
2303	-.243	.051	-.088	-.476	4401	.091	.083	.414	-.148
2401	-.248	.051	-.052	-.437	4402	.110	.099	.503	-.171
2402	-.247	.051	-.061	-.477	4403	.123	.106	.548	-.158
2403	-.267	.054	-.037	-.482	4404	-.003	.077	.322	-.240

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=195

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	.113	.078	.497	-.283	5302	.077	.063	.273	-.180
4502	.103	.066	.494	-.060	5401	.037	.066	.266	-.185
4503	.086	.060	.424	-.076	5402	.085	.067	.315	-.165
4504	.046	.056	.315	-.095	5501	.049	.068	.308	-.350
4505	.039	.061	.306	-.112	5502	.065	.067	.320	-.141
4506	-.075	.055	.161	-.231	5503	.078	.071	.414	-.215
4507	-.044	.074	.351	-.224	6101	.071	.074	.410	-.312
4508	-.018	.084	.355	-.257	6102	.046	.108	.449	-.411
4509	.013	.081	.369	-.253	6103	.049	.108	.432	-.578
4601	.066	.098	.453	-.308	6201	.086	.061	.357	-.213
4602	.081	.065	.361	-.095	6202	.088	.061	.366	-.147
4603	.034	.054	.299	-.112	6203	.079	.065	.351	-.197
4604	-.030	.045	.168	-.161	6301	.061	.059	.335	-.132
4605	-.196	.031	-.053	-.325	6302	.081	.054	.341	-.072
4701	.038	.097	.412	-.388	6303	.083	.062	.345	-.179
4702	.043	.061	.302	-.223	6401	.073	.057	.302	-.074
4703	.001	.047	.210	-.131	6402	.079	.055	.341	-.059
4704	-.063	.037	.073	-.167	6403	.086	.063	.399	-.191
4705	-.224	.033	-.109	-.333	6501	.107	.060	.377	-.086
4801	-.015	.099	.338	-.423	6502	.117	.063	.378	-.065
4802	-.002	.054	.194	-.264	6503	.115	.072	.437	-.144
4803	-.065	.040	.088	-.237	6601	-.140	.053	.110	-.347
4804	-.224	.033	-.073	-.362	6602	.092	.071	.402	-.068
4901	-.062	.099	.247	-.425	6603	.093	.083	.477	-.158
4902	-.065	.049	.138	-.338	6701	-.128	.051	.147	-.374
4903	-.234	.035	-.131	-.374	6702	.071	.075	.453	-.119
4904	-.063	.073	.229	-.446	6703	.046	.085	.504	-.351
4905	-.142	.038	-.004	-.348	6801	.087	.065	.387	-.144
4906	-.142	.099	.214	-.675	6802	-.002	.055	.276	-.185
4907	-.234	.038	-.103	-.381	6803	.010	.073	.395	-.200
4908	-.151	.074	.088	-.529	6804	-.006	.084	.410	-.248
4909	-.174	.042	-.026	-.412	6901	-.222	.039	-.089	-.363
4910	-.205	.089	.063	-.500	6902	-.258	.045	-.105	-.426
4911	-.235	.038	-.108	-.398	6903	-.217	.047	-.018	-.378
4912	-.265	.047	-.106	-.454	6904	-.195	.056	.053	-.387
5101	-.038	.110	.336	-.736	6905	-.161	.062	.093	-.365
5102	.015	.082	.318	-.329	7101	.089	.056	.272	-.153
5103	.040	.070	.284	-.225	7102	.108	.053	.324	-.032
5104	.084	.064	.359	-.134	7103	.120	.058	.411	-.029
5201	-.015	.094	.284	-.365	8101	-.530	.139	-.146	-1.318
5202	.059	.069	.266	-.399	8102	-.345	.074	-.138	-.842
5301	.013	.078	.248	-.279	8103	-.362	.077	-.149	-.806

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=210

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.169	.040	-.033	-.376	3101	-.272	.069	-.100	-.736
1102	-.186	.040	-.036	-.363	3201	-.226	.056	-.057	-.571
1103	-.167	.041	-.039	-.342	3202	-.257	.064	-.033	-1.183
1104	-.160	.040	-.036	-.357	3203	-.270	.057	-.100	-.623
1105	-.149	.039	-.040	-.306	3204	-.285	.057	-.160	-.542
1201	-.175	.039	-.076	-.387	3205	-.288	.054	-.149	-.557
1202	-.170	.040	-.045	-.339	3206	-.300	.061	-.166	-.626
1301	-.169	.037	-.070	-.345	3301	-.232	.058	-.067	-.843
1302	-.175	.038	-.055	-.323	3302	-.259	.056	-.063	-.911
1303	-.173	.037	-.003	-.303	3303	-.272	.052	-.128	-.532
1304	-.157	.035	-.028	-.299	3304	-.282	.048	-.166	-.536
1401	-.189	.037	-.096	-.526	3401	-.231	.055	-.072	-.798
1402	-.191	.040	-.022	-.356	3402	-.249	.044	-.127	-.433
1403	-.187	.035	-.013	-.345	3403	-.253	.040	-.143	-.450
1404	-.172	.035	.010	-.288	3501	-.236	.050	-.091	-.489
1501	-.204	.033	-.045	-.366	3502	-.259	.049	-.134	-.607
1502	-.202	.033	-.081	-.344	3601	-.260	.057	-.097	-.687
1503	-.199	.031	-.046	-.357	4101	.144	.065	.460	-.018
1504	-.186	.032	-.067	-.339	4102	.087	.058	.330	-.062
1601	-.183	.030	-.094	-.285	4103	.082	.056	.313	-.074
1602	-.198	.029	-.066	-.314	4104	.087	.059	.333	-.113
1603	-.202	.032	-.088	-.362	4105	.106	.071	.395	-.111
1604	-.227	.052	-.094	-.457	4106	.158	.096	.537	-.148
1701	-.190	.029	-.096	-.303	4107	.016	.077	.278	-.219
1702	-.192	.033	-.063	-.302	4201	.095	.062	.326	-.083
1703	-.241	.050	-.105	-.521	4202	.086	.056	.290	-.091
1801	-.198	.031	-.066	-.339	4203	.073	.055	.292	-.114
1802	-.209	.033	-.048	-.362	4204	.072	.058	.291	-.119
1803	-.205	.033	-.085	-.348	4205	.095	.070	.372	-.113
1804	-.222	.040	-.087	-.397	4206	.123	.089	.504	-.133
2101	-.219	.039	-.082	-.376	4207	.005	.077	.274	-.246
2102	-.229	.043	-.081	-.424	4301	.080	.059	.381	-.103
2103	-.258	.054	-.123	-.554	4302	.075	.053	.326	-.067
2201	-.227	.037	-.070	-.396	4303	.057	.051	.295	-.064
2202	-.225	.037	-.094	-.376	4304	.051	.056	.321	-.093
2203	-.249	.047	-.130	-.497	4305	.063	.067	.394	-.116
2301	-.213	.034	-.099	-.347	4306	.098	.086	.544	-.148
2302	-.226	.034	-.082	-.354	4307	-.054	.065	.243	-.279
2303	-.249	.043	-.120	-.409	4401	.010	.066	.340	-.184
2401	-.237	.040	-.121	-.423	4402	.022	.080	.369	-.185
2402	-.251	.044	-.087	-.415	4403	.030	.085	.431	-.206
2403	-.273	.046	-.133	-.480	4404	-.071	.060	.188	-.262

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=210

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	.079	.068	.404	-.298	5302	.017	.056	.309	-.224
4502	.072	.058	.306	-.081	5401	-.004	.056	.225	-.263
4503	.055	.052	.246	-.096	5402	.041	.056	.243	-.144
4504	.009	.048	.203	-.142	5501	.013	.057	.204	-.228
4505	-.015	.050	.184	-.194	5502	.025	.057	.227	-.174
4506	-.144	.051	.033	-.430	5503	.033	.060	.263	-.173
4507	-.119	.063	.169	-.447	6101	-.071	.080	.263	-.436
4508	-.098	.066	.165	-.462	6102	-.118	.082	.448	-.502
4509	-.050	.067	.198	-.262	6103	-.136	.116	.236	-.843
4601	.047	.072	.339	-.292	6201	-.036	.074	.260	-.400
4602	.043	.052	.253	-.119	6202	-.025	.072	.233	-.362
4603	-.003	.043	.174	-.140	6203	-.035	.088	.246	-.463
4604	-.065	.036	.065	-.172	6301	-.029	.056	.189	-.311
4605	-.217	.031	-.098	-.374	6302	-.007	.053	.216	-.254
4701	.029	.075	.300	-.291	6303	.004	.068	.222	-.353
4702	.010	.049	.188	-.140	6401	.009	.049	.252	-.171
4703	-.028	.042	.169	-.148	6402	.015	.049	.242	-.165
4704	-.085	.033	.080	-.216	6403	.016	.064	.224	-.321
4705	-.220	.032	-.055	-.329	6501	.039	.059	.337	-.104
4801	-.016	.081	.320	-.359	6502	.046	.066	.346	-.122
4802	-.022	.044	.152	-.164	6503	.036	.076	.333	-.263
4803	-.079	.033	.052	-.181	6601	-.174	.046	.015	-.385
4804	-.209	.029	-.077	-.321	6602	.022	.054	.347	-.161
4901	-.044	.075	.184	-.378	6603	.028	.068	.346	-.282
4902	-.076	.039	.096	-.210	6701	-.145	.043	.081	-.296
4903	-.206	.028	-.123	-.314	6702	.004	.057	.374	-.173
4904	-.064	.054	.113	-.369	6703	-.007	.064	.330	-.239
4905	-.133	.030	-.032	-.248	6801	.040	.054	.353	-.105
4906	-.095	.071	.162	-.498	6802	-.046	.045	.279	-.174
4907	-.203	.034	-.083	-.329	6803	-.046	.055	.267	-.213
4908	-.119	.050	.070	-.446	6804	-.043	.066	.264	-.249
4909	-.153	.033	-.036	-.300	6901	-.215	.036	-.092	-.344
4910	-.144	.064	.071	-.427	6902	-.247	.044	-.096	-.398
4911	-.198	.035	-.068	-.329	6903	-.212	.041	-.039	-.346
4912	-.201	.041	-.041	-.342	6904	-.201	.045	-.047	-.424
5101	-.122	.094	.146	-.611	6905	-.173	.050	.063	-.412
5102	-.065	.086	.236	-.427	7101	-.002	.075	.231	-.306
5103	-.029	.074	.212	-.419	7102	.045	.059	.300	-.150
5104	.034	.066	.248	-.418	7103	.070	.053	.364	-.107
5201	-.057	.082	.228	-.398	8101	-.511	.114	-.204	-1.023
5202	-.018	.068	.198	-.437	8102	-.340	.069	-.126	-.744
5301	-.032	.069	.209	-.294	8103	-.333	.067	-.105	-.730

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=225

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.109	.038	.028	-.340	3101	-.265	.079	-.076	-.710
1102	-.115	.041	.016	-.321	3201	-.224	.068	-.067	-.695
1103	-.106	.037	.036	-.321	3202	-.261	.077	-.036	-.737
1104	-.114	.037	.015	-.335	3203	-.269	.061	-.105	-.651
1105	-.106	.035	.003	-.280	3204	-.268	.058	-.127	-.536
1201	-.118	.035	.001	-.259	3205	-.271	.059	-.115	-.542
1202	-.107	.038	.031	-.264	3206	-.282	.069	-.049	-.684
1301	-.112	.030	-.024	-.237	3301	-.237	.073	-.006	-.890
1302	-.118	.037	.046	-.472	3302	-.262	.062	-.084	-.653
1303	-.138	.033	-.012	-.350	3303	-.252	.050	-.097	-.533
1304	-.126	.034	-.009	-.292	3304	-.258	.053	-.100	-.532
1401	-.197	.049	-.054	-.520	3401	-.247	.071	.060	-.809
1402	-.161	.031	-.061	-.303	3402	-.251	.051	-.081	-.484
1403	-.173	.032	-.066	-.331	3403	-.250	.047	-.100	-.494
1404	-.161	.036	-.051	-.439	3501	-.240	.060	-.066	-.545
1501	-.197	.035	-.109	-.338	3502	-.246	.053	-.100	-.723
1502	-.176	.031	-.085	-.297	3601	-.250	.064	-.066	-.699
1503	-.186	.033	-.090	-.310	4101	.080	.056	.410	-.105
1504	-.178	.035	-.073	-.312	4102	.039	.056	.260	-.140
1601	-.152	.029	-.058	-.256	4103	.038	.052	.244	-.084
1602	-.175	.033	-.013	-.313	4104	.044	.055	.257	-.078
1603	-.188	.032	-.087	-.298	4105	.062	.066	.339	-.115
1604	-.253	.056	-.096	-.478	4106	.088	.081	.459	-.130
1701	-.160	.033	-.027	-.303	4107	-.023	.062	.283	-.250
1702	-.160	.033	-.025	-.280	4201	.021	.048	.240	-.131
1703	-.245	.060	-.081	-.505	4202	.029	.049	.232	-.113
1801	-.171	.034	-.043	-.297	4203	.026	.046	.227	-.102
1802	-.188	.036	-.030	-.309	4204	.024	.048	.211	-.098
1803	-.193	.035	-.081	-.334	4205	.042	.057	.273	-.110
1804	-.223	.042	-.100	-.413	4206	.066	.071	.378	-.124
2101	-.224	.064	-.030	-.577	4207	-.042	.060	.205	-.316
2102	-.238	.056	-.109	-.536	4301	.010	.045	.191	-.127
2103	-.262	.066	-.079	-.637	4302	.017	.044	.222	-.124
2201	-.225	.051	-.082	-.460	4303	.007	.043	.205	-.141
2202	-.228	.047	-.087	-.499	4304	.002	.044	.186	-.126
2203	-.255	.055	-.091	-.554	4305	.007	.052	.215	-.139
2301	-.191	.053	-.054	-.488	4306	.032	.068	.315	-.146
2302	-.217	.047	-.075	-.434	4307	-.091	.051	.157	-.292
2303	-.249	.048	-.124	-.466	4401	-.044	.051	.196	-.218
2401	-.196	.060	-.064	-.593	4402	-.039	.062	.281	-.286
2402	-.188	.043	-.052	-.448	4403	-.031	.064	.281	-.224
2403	-.225	.048	-.057	-.559	4404	-.104	.048	.095	-.310

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=225

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.006	.059	.256	-.212	5302	-.066	.064	.248	-.421
4502	.013	.046	.225	-.108	5401	-.088	.059	.087	-.446
4503	.004	.042	.183	-.115	5402	-.034	.054	.174	-.301
4504	-.036	.038	.102	-.149	5501	-.076	.056	.096	-.304
4505	-.069	.037	.107	-.189	5502	-.061	.055	.113	-.311
4506	-.202	.048	-.025	-.414	5503	-.054	.057	.152	-.347
4507	-.186	.053	.088	-.407	6101	-.185	.073	.078	-.612
4508	-.163	.051	.033	-.368	6102	-.206	.064	-.005	-.531
4509	-.088	.056	.143	-.374	6103	-.232	.085	.005	-1.093
4601	-.017	.054	.221	-.237	6201	-.157	.080	.108	-.610
4602	-.005	.041	.228	-.118	6202	-.160	.078	.074	-.510
4603	-.040	.035	.150	-.156	6203	-.180	.095	.092	-.559
4604	-.097	.030	.036	-.205	6301	-.127	.061	.095	-.573
4605	-.223	.029	-.133	-.328	6302	-.105	.060	.074	-.529
4701	-.014	.050	.206	-.232	6303	-.110	.076	.149	-.490
4702	-.027	.037	.137	-.167	6401	-.070	.047	.101	-.253
4703	-.053	.034	.089	-.189	6402	-.066	.044	.077	-.269
4704	-.102	.028	.016	-.208	6403	-.084	.063	.122	-.350
4705	-.219	.032	-.117	-.377	6501	-.039	.047	.186	-.234
4801	-.033	.052	.199	-.240	6502	-.045	.058	.146	-.302
4802	-.047	.037	.115	-.169	6503	-.063	.070	.159	-.329
4803	-.094	.029	.051	-.189	6601	-.201	.045	-.015	-.454
4804	-.206	.030	-.085	-.328	6602	-.047	.055	.198	-.305
4901	-.054	.052	.111	-.303	6603	-.054	.068	.161	-.415
4902	-.090	.031	.049	-.186	6701	-.154	.039	.078	-.310
4903	-.192	.029	-.084	-.339	6702	-.050	.049	.194	-.292
4904	-.074	.039	.082	-.267	6703	-.058	.060	.171	-.341
4905	-.127	.025	-.022	-.217	6801	.024	.047	.248	-.113
4906	-.088	.049	.072	-.365	6802	-.062	.033	.077	-.191
4907	-.172	.027	-.066	-.287	6803	-.076	.041	.119	-.292
4908	-.105	.036	.025	-.293	6804	-.081	.054	.107	-.301
4909	-.132	.026	-.025	-.224	6901	-.175	.032	-.074	-.349
4910	-.119	.043	.048	-.336	6902	-.194	.038	-.080	-.377
4911	-.162	.030	-.039	-.274	6903	-.181	.035	-.048	-.332
4912	-.156	.035	-.039	-.312	6904	-.183	.034	-.017	-.367
5101	-.194	.083	.032	-.673	6905	-.167	.038	-.027	-.385
5102	-.174	.086	.083	-.613	7101	-.098	.072	.117	-.519
5103	-.141	.081	.105	-.684	7102	-.034	.045	.146	-.271
5104	-.053	.071	.213	-.495	7103	.023	.050	.259	-.119
5201	-.174	.076	.084	-.591	8101	-.446	.098	-.204	-.968
5202	-.114	.077	.137	-.541	8102	-.299	.049	-.168	-.519
5301	-.131	.070	.104	-.487	8103	-.300	.055	-.140	-.534

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=240

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.074	.038	.033	-.312	3101	-.152	.058	.010	-.435
1102	-.082	.039	.061	-.326	3201	-.148	.064	.003	-.638
1103	-.080	.037	.055	-.324	3202	-.157	.067	.016	-.626
1104	-.093	.040	.016	-.387	3203	-.171	.051	-.030	-.383
1105	-.082	.039	.055	-.468	3204	-.185	.067	.009	-.542
1201	-.085	.036	.060	-.263	3205	-.214	.090	.049	-.642
1202	-.077	.035	.049	-.256	3206	-.228	.090	-.004	-.689
1301	-.079	.029	.018	-.254	3301	-.142	.066	.036	-.638
1302	-.078	.027	.054	-.176	3302	-.157	.052	-.015	-.375
1303	-.104	.027	-.009	-.212	3303	-.166	.050	.099	-.371
1304	-.094	.036	.007	-.484	3304	-.261	.117	.015	-.889
1401	-.163	.045	-.009	-.451	3401	-.152	.062	.016	-.481
1402	-.117	.027	-.006	-.239	3402	-.176	.048	-.003	-.357
1403	-.135	.028	-.042	-.269	3403	-.226	.084	.034	-.701
1404	-.124	.036	.013	-.377	3501	-.164	.056	-.006	-.439
1501	-.155	.032	-.057	-.288	3502	-.213	.058	.021	-.514
1502	-.141	.028	-.064	-.250	3601	-.198	.058	-.018	-.436
1503	-.154	.029	-.072	-.314	4101	.025	.045	.241	-.143
1504	-.144	.035	-.033	-.380	4102	-.025	.040	.150	-.169
1601	-.121	.026	-.018	-.238	4103	-.021	.037	.126	-.137
1602	-.125	.025	-.060	-.227	4104	-.012	.039	.160	-.116
1603	-.133	.026	-.058	-.220	4105	.002	.046	.185	-.154
1604	-.156	.046	-.034	-.368	4106	.025	.054	.304	-.142
1701	-.114	.025	-.048	-.199	4107	-.051	.043	.138	-.199
1702	-.106	.025	-.010	-.190	4201	-.039	.040	.142	-.194
1703	-.143	.051	.013	-.351	4202	-.029	.039	.171	-.147
1801	-.120	.026	-.043	-.266	4203	-.033	.034	.105	-.168
1802	-.122	.027	-.034	-.244	4204	-.030	.034	.105	-.160
1803	-.131	.031	-.018	-.242	4205	-.016	.041	.141	-.242
1804	-.143	.039	-.027	-.300	4206	.001	.052	.263	-.236
2101	-.153	.041	-.046	-.642	4207	-.058	.044	.108	-.245
2102	-.153	.037	-.055	-.345	4301	-.051	.038	.129	-.178
2103	-.158	.053	.001	-.484	4302	-.035	.038	.132	-.154
2201	-.162	.039	-.078	-.596	4303	-.041	.033	.107	-.138
2202	-.154	.037	-.070	-.520	4304	-.048	.031	.077	-.169
2203	-.157	.049	.027	-.533	4305	-.044	.035	.107	-.157
2301	-.133	.030	-.060	-.287	4306	-.026	.045	.180	-.165
2302	-.148	.027	-.076	-.263	4307	-.093	.036	.071	-.226
2303	-.160	.057	.039	-.611	4401	-.084	.034	.068	-.214
2401	-.132	.033	-.046	-.320	4402	-.083	.039	.110	-.212
2402	-.134	.029	-.052	-.269	4403	-.072	.042	.114	-.211
2403	-.156	.039	-.027	-.365	4404	-.111	.037	.064	-.266

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=240

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.112	.048	.098	-.292	5302	-.171	.068	.027	-.513
4502	-.054	.037	.104	-.181	5401	-.196	.053	-.029	-.415
4503	-.048	.032	.091	-.206	5402	-.113	.052	.087	-.476
4504	-.073	.028	.073	-.194	5501	-.170	.050	0.000	-.457
4505	-.095	.028	.034	-.202	5502	-.150	.047	.012	-.415
4506	-.178	.041	-.031	-.369	5503	-.146	.047	.018	-.366
4507	-.168	.041	-.013	-.350	6101	-.275	.062	-.093	-.509
4508	-.155	.038	.001	-.326	6102	-.277	.055	-.117	-.476
4509	-.085	.043	.088	-.289	6103	-.284	.064	-.080	-.596
4601	-.092	.044	.093	-.283	6201	-.263	.069	-.080	-.558
4602	-.055	.033	.091	-.191	6202	-.251	.061	-.092	-.510
4603	-.074	.027	.058	-.183	6203	-.266	.072	-.054	-.635
4604	-.113	.024	-.009	-.202	6301	-.214	.080	-.024	-.933
4605	-.195	.032	-.102	-.332	6302	-.192	.058	-.015	-.463
4701	-.080	.039	.104	-.230	6303	-.212	.068	.038	-.530
4702	-.071	.029	.045	-.153	6401	-.173	.049	-.014	-.415
4703	-.083	.027	.040	-.193	6402	-.165	.053	.033	-.418
4704	-.116	.023	-.027	-.223	6403	-.185	.059	.018	-.486
4705	-.194	.030	-.095	-.350	6501	-.133	.044	.038	-.292
4801	-.084	.037	.073	-.231	6502	-.152	.059	.015	-.424
4802	-.080	.029	.027	-.177	6503	-.163	.059	.032	-.479
4803	-.106	.024	-.016	-.197	6601	-.193	.047	-.027	-.391
4804	-.181	.030	-.083	-.332	6602	-.136	.067	.054	-.442
4901	-.094	.037	.046	-.269	6603	-.153	.072	.071	-.503
4902	-.104	.024	.001	-.190	6701	-.144	.045	.026	-.305
4903	-.171	.029	-.067	-.365	6702	-.114	.058	.074	-.500
4904	-.092	.029	.031	-.214	6703	-.131	.058	.090	-.390
4905	-.123	.022	-.033	-.245	6801	-.012	.048	.224	-.158
4906	-.107	.032	.019	-.260	6802	-.086	.035	.044	-.251
4907	-.151	.030	-.064	-.341	6803	-.118	.042	.033	-.355
4908	-.110	.026	-.013	-.214	6804	-.137	.053	.078	-.373
4909	-.126	.024	-.047	-.251	6901	-.146	.031	-.035	-.244
4910	-.114	.031	-.013	-.245	6902	-.161	.036	-.033	-.322
4911	-.138	.032	-.042	-.334	6903	-.164	.036	-.065	-.336
4912	-.135	.038	-.027	-.384	6904	-.172	.040	-.032	-.381
5101	-.251	.072	-.065	-.730	6905	-.170	.043	-.050	-.388
5102	-.257	.073	-.015	-.594	7101	-.182	.068	.027	-.510
5103	-.241	.076	.006	-.594	7102	-.110	.035	.066	-.333
5104	-.149	.075	.096	-.530	7103	-.023	.051	.250	-.166
5201	-.261	.061	-.101	-.546	8101	-.312	.069	-.149	-.667
5202	-.220	.074	.047	-.527	8102	-.253	.036	-.120	-.414
5301	-.237	.061	-.009	-.498	8103	-.256	.046	-.114	-.506

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=255

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.073	.041	.141	-.289	3101	-.091	.034	.038	-.260
1102	-.090	.040	.053	-.280	3201	-.082	.033	.015	-.254
1103	-.092	.044	.038	-.298	3202	-.102	.037	.002	-.263
1104	-.106	.051	.089	-.391	3203	-.108	.037	.033	-.257
1105	-.096	.049	.089	-.370	3204	-.109	.035	.023	-.280
1201	-.079	.042	.116	-.271	3205	-.128	.046	.002	-.394
1202	-.075	.040	.063	-.257	3206	-.161	.064	.011	-.473
1301	-.063	.031	.100	-.212	3301	-.103	.037	.008	-.248
1302	-.082	.033	.030	-.224	3302	-.147	.054	-.008	-.394
1303	-.106	.036	.018	-.265	3303	-.085	.038	.038	-.289
1304	-.100	.047	.045	-.394	3304	-.153	.054	.011	-.410
1401	-.136	.047	-.008	-.393	3401	-.134	.050	.036	-.336
1402	-.103	.029	.008	-.228	3402	-.112	.043	.032	-.366
1403	-.118	.034	-.006	-.290	3403	-.189	.064	.003	-.429
1404	-.103	.046	.035	-.351	3501	-.174	.063	-.018	-.459
1501	-.130	.033	-.048	-.261	3502	-.092	.036	.048	-.305
1502	-.114	.030	.014	-.227	3601	-.213	.071	-.030	-.505
1503	-.120	.036	-.003	-.281	4101	-.036	.035	.112	-.190
1504	-.107	.045	.030	-.401	4102	-.093	.026	.039	-.205
1601	-.110	.026	-.029	-.209	4103	-.085	.024	.025	-.176
1602	-.106	.025	.002	-.198	4104	-.074	.025	.031	-.183
1603	-.107	.032	-.009	-.252	4105	-.067	.028	.068	-.179
1604	-.101	.033	.011	-.231	4106	-.041	.035	.116	-.205
1701	-.103	.025	-.036	-.233	4107	-.096	.032	.083	-.232
1702	-.087	.025	-.009	-.186	4201	-.098	.030	.042	-.284
1703	-.095	.030	-.005	-.222	4202	-.095	.025	.012	-.195
1801	-.100	.023	.002	-.212	4203	-.090	.023	-.004	-.216
1802	-.097	.024	-.009	-.198	4204	-.083	.024	.007	-.183
1803	-.095	.042	.047	-.349	4205	-.072	.027	.042	-.196
1804	-.099	.036	.021	-.284	4206	-.058	.032	.067	-.202
2101	-.109	.026	-.033	-.222	4207	-.101	.032	.057	-.217
2102	-.113	.029	-.015	-.275	4301	-.125	.031	.007	-.317
2103	-.092	.037	.062	-.314	4302	-.106	.026	-.004	-.237
2201	-.120	.025	-.039	-.203	4303	-.099	.023	-.010	-.253
2202	-.112	.025	-.033	-.201	4304	-.090	.022	.015	-.176
2203	-.119	.046	.059	-.349	4305	-.084	.025	.033	-.193
2301	-.105	.025	-.032	-.198	4306	-.071	.030	.089	-.195
2302	-.116	.025	-.035	-.212	4307	-.104	.028	.018	-.228
2303	-.112	.035	.018	-.278	4401	-.101	.024	-.007	-.192
2401	-.104	.025	-.023	-.198	4402	-.099	.027	.012	-.201
2402	-.098	.026	-.026	-.206	4403	-.091	.029	.034	-.208
2403	-.114	.031	-.017	-.237	4404	-.101	.027	-.003	-.217

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=255

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.206	.043	-.060	-.420	5302	-.245	.073	-.053	-.580
4502	-.128	.028	-.003	-.219	5401	-.266	.050	-.121	-.515
4503	-.105	.024	-.010	-.192	5402	-.164	.052	.026	-.494
4504	-.102	.021	-.028	-.192	5501	-.244	.046	-.124	-.447
4505	-.104	.020	-.016	-.216	5502	-.235	.046	-.114	-.421
4506	-.133	.025	-.048	-.247	5503	-.236	.045	-.115	-.441
4507	-.128	.025	-.043	-.237	6101	-.308	.051	-.174	-.494
4508	-.126	.026	-.036	-.238	6102	-.310	.045	-.185	-.466
4509	-.074	.034	.077	-.217	6103	-.302	.050	-.159	-.512
4601	-.165	.038	-.039	-.354	6201	-.317	.057	-.145	-.569
4602	-.111	.026	-.019	-.220	6202	-.307	.051	-.173	-.550
4603	-.107	.022	-.031	-.198	6203	-.305	.058	-.154	-.597
4604	-.115	.022	-.030	-.201	6301	-.423	.122	-.101	-1.089
4605	-.151	.034	-.022	-.295	6302	-.278	.053	-.117	-.547
4701	-.133	.036	-.012	-.318	6303	-.271	.058	-.112	-.601
4702	-.109	.024	-.015	-.185	6401	-.267	.042	-.112	-.456
4703	-.106	.022	-.027	-.196	6402	-.274	.053	-.100	-.580
4704	-.115	.021	-.022	-.205	6403	-.267	.054	-.114	-.556
4705	-.149	.035	-.034	-.368	6501	-.208	.034	-.051	-.348
4801	-.128	.032	-.027	-.246	6502	-.262	.057	-.097	-.600
4802	-.112	.022	-.028	-.195	6503	-.253	.059	-.038	-.506
4803	-.118	.021	-.045	-.213	6601	-.167	.044	.051	-.370
4804	-.151	.036	-.028	-.315	6602	-.233	.069	.005	-.569
4901	-.137	.035	-.019	-.295	6603	-.229	.065	-.045	-.523
4902	-.122	.023	-.028	-.199	6701	-.120	.050	.065	-.348
4903	-.157	.036	-.033	-.327	6702	-.189	.070	.009	-.571
4904	-.120	.027	-.012	-.219	6703	-.193	.058	-.011	-.429
4905	-.127	.026	-.033	-.213	6801	-.014	.056	.238	-.186
4906	-.132	.033	-.030	-.336	6802	-.111	.055	.061	-.401
4907	-.150	.035	-.009	-.321	6803	-.180	.063	-.008	-.498
4908	-.127	.028	-.040	-.284	6804	-.175	.053	.008	-.413
4909	-.134	.028	-.031	-.265	6901	-.133	.032	-.005	-.239
4910	-.138	.037	0.000	-.296	6902	-.155	.037	-.006	-.312
4911	-.153	.041	-.027	-.327	6903	-.172	.045	-.027	-.373
4912	-.158	.049	-.012	-.390	6904	-.178	.049	-.042	-.429
5101	-.289	.061	-.131	-.589	6905	-.184	.054	-.035	-.524
5102	-.314	.069	-.153	-.638	7101	-.237	.063	-.036	-.618
5103	-.323	.076	-.103	-.797	7102	-.168	.032	-.053	-.354
5104	-.203	.088	.032	-.639	7103	-.090	.042	.088	-.251
5201	-.305	.055	-.142	-.550	8101	-.212	.038	-.105	-.377
5202	-.296	.071	-.088	-.659	8102	-.202	.031	-.120	-.351
5301	-.298	.054	-.142	-.507	8103	-.204	.035	-.106	-.347

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=270

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.077	.047	.087	-.291	3101	-.096	.035	.027	-.243
1102	-.096	.048	.087	-.298	3201	-.091	.034	.013	-.301
1103	-.097	.059	.114	-.448	3202	-.090	.030	.049	-.223
1104	-.111	.063	.046	-.577	3203	-.104	.039	.027	-.316
1105	-.113	.068	.055	-.710	3204	-.124	.043	.043	-.334
1201	-.089	.047	.112	-.454	3205	-.150	.058	.025	-.454
1202	-.088	.048	.103	-.509	3206	-.187	.078	.031	-.553
1301	-.075	.035	.043	-.280	3301	-.081	.028	.022	-.234
1302	-.091	.036	.067	-.249	3302	-.081	.025	.040	-.187
1303	-.109	.048	.045	-.327	3303	-.110	.045	.043	-.301
1304	-.114	.062	.087	-.616	3304	-.183	.069	.058	-.554
1401	-.135	.047	-.025	-.410	3401	-.071	.025	.003	-.210
1402	-.115	.035	-.009	-.309	3402	-.080	.031	.027	-.262
1403	-.123	.051	.067	-.421	3403	-.179	.062	.025	-.488
1404	-.117	.058	.061	-.452	3501	-.072	.025	.009	-.201
1501	-.130	.032	-.040	-.262	3502	-.091	.044	.055	-.367
1502	-.115	.032	.001	-.249	3601	-.082	.031	.003	-.261
1503	-.117	.043	.163	-.348	4101	-.081	.022	.019	-.187
1504	-.107	.050	.091	-.339	4102	-.136	.020	-.057	-.271
1601	-.109	.026	-.028	-.220	4103	-.127	.019	-.043	-.200
1602	-.123	.025	-.037	-.241	4104	-.118	.019	-.016	-.198
1603	-.114	.037	.030	-.345	4105	-.122	.030	-.036	-.313
1604	-.109	.042	.030	-.316	4106	-.090	.034	.073	-.249
1701	-.107	.024	-.034	-.235	4107	-.144	.033	-.027	-.301
1702	-.102	.027	-.006	-.202	4201	-.149	.023	-.015	-.247
1703	-.103	.036	.015	-.267	4202	-.144	.020	-.079	-.261
1801	-.110	.026	-.028	-.228	4203	-.130	.019	-.058	-.198
1802	-.111	.027	-.028	-.219	4204	-.123	.019	-.040	-.210
1803	-.110	.044	.010	-.415	4205	-.119	.026	-.045	-.262
1804	-.112	.040	.006	-.472	4206	-.100	.027	0.000	-.217
2101	-.122	.032	-.036	-.328	4207	-.130	.026	-.049	-.273
2102	-.128	.036	-.031	-.380	4301	-.167	.023	-.077	-.252
2103	-.113	.043	.067	-.328	4302	-.147	.020	-.048	-.212
2201	-.127	.028	-.051	-.241	4303	-.134	.017	-.076	-.189
2202	-.123	.028	-.036	-.268	4304	-.126	.018	-.055	-.225
2203	-.129	.063	.112	-.602	4305	-.125	.023	-.010	-.243
2301	-.109	.025	-.036	-.249	4306	-.114	.022	-.036	-.222
2302	-.118	.025	-.031	-.244	4307	-.132	.023	-.052	-.280
2303	-.118	.042	.004	-.400	4401	-.134	.024	-.054	-.262
2401	-.108	.026	-.030	-.238	4402	-.132	.024	-.045	-.222
2402	-.107	.026	-.033	-.280	4403	-.135	.026	-.048	-.243
2403	-.122	.032	-.037	-.288	4404	-.138	.024	-.070	-.234

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=270

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.231	.038	-.110	-.413	5302	-.247	.075	-.054	-.683
4502	-.166	.022	-.095	-.264	5401	-.294	.047	-.174	-.514
4503	-.140	.019	-.077	-.223	5402	-.194	.037	-.046	-.448
4504	-.127	.018	-.058	-.206	5501	-.285	.045	-.162	-.468
4505	-.131	.021	-.058	-.228	5502	-.283	.046	-.168	-.478
4506	-.155	.031	-.057	-.285	5503	-.279	.044	-.144	-.457
4507	-.150	.030	-.060	-.274	6101	-.330	.054	-.202	-.532
4508	-.155	.032	-.061	-.279	6102	-.332	.049	-.213	-.490
4509	-.114	.028	-.007	-.276	6103	-.315	.050	-.180	-.504
4601	-.185	.032	-.085	-.329	6201	-.348	.055	-.211	-.522
4602	-.141	.021	-.077	-.240	6202	-.342	.051	-.208	-.544
4603	-.130	.018	-.066	-.192	6203	-.337	.056	-.181	-.728
4604	-.131	.022	-.048	-.217	6301	-.491	.110	-.213	-1.003
4605	-.160	.038	-.030	-.334	6302	-.332	.055	-.196	-.552
4701	-.155	.030	-.052	-.304	6303	-.308	.055	-.172	-.550
4702	-.137	.020	-.073	-.238	6401	-.304	.047	-.195	-.529
4703	-.127	.020	-.039	-.243	6402	-.316	.054	-.156	-.544
4704	-.130	.023	-.039	-.228	6403	-.301	.052	-.178	-.538
4705	-.157	.044	-.039	-.355	6501	-.219	.036	-.103	-.372
4801	-.146	.030	-.054	-.311	6502	-.298	.053	-.156	-.508
4802	-.132	.021	-.061	-.209	6503	-.268	.047	-.120	-.465
4803	-.131	.022	-.058	-.219	6601	-.161	.041	-.015	-.364
4804	-.160	.047	.009	-.359	6602	-.269	.053	-.109	-.481
4901	-.148	.037	-.033	-.310	6603	-.227	.050	-.100	-.483
4902	-.128	.022	-.058	-.206	6701	-.114	.048	-.072	-.316
4903	-.160	.046	-.022	-.414	6702	-.219	.050	-.082	-.534
4904	-.123	.027	-.016	-.231	6703	-.187	.047	-.036	-.477
4905	-.128	.029	-.025	-.219	6801	-.021	.057	.241	-.198
4906	-.129	.036	-.015	-.283	6802	-.146	.054	.049	-.381
4907	-.156	.044	-.028	-.371	6803	-.196	.048	-.036	-.543
4908	-.123	.031	-.028	-.240	6804	-.161	.051	.006	-.432
4909	-.134	.033	-.016	-.262	6901	-.122	.039	.034	-.274
4910	-.129	.039	-.012	-.380	6902	-.154	.044	-.006	-.376
4911	-.155	.047	-.016	-.444	6903	-.186	.052	-.031	-.424
4912	-.157	.056	-.015	-.560	6904	-.172	.053	.016	-.577
5101	-.307	.054	-.156	-.511	6905	-.174	.059	.003	-.546
5102	-.333	.061	-.160	-.604	7101	-.272	.054	-.141	-.581
5103	-.344	.073	-.123	-.700	7102	-.216	.031	-.117	-.330
5104	-.194	.059	-.033	-.620	7103	-.142	.036	.042	-.346
5201	-.324	.051	-.192	-.571	8101	-.203	.035	-.106	-.373
5202	-.327	.074	-.105	-.703	8102	-.198	.029	-.099	-.316
5301	-.330	.053	-.184	-.546	8103	-.196	.033	-.085	-.336

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=285

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.062	.051	.095	-.390	3101	-.102	.043	.051	-.347
1102	-.072	.053	.133	-.283	3201	-.095	.038	.035	-.294
1103	-.070	.061	.090	-.437	3202	-.092	.039	.057	-.245
1104	-.079	.065	.076	-.494	3203	-.094	.043	.048	-.325
1105	-.079	.068	.105	-.599	3204	-.136	.056	.060	-.511
1201	-.062	.051	.125	-.350	3205	-.158	.066	.047	-.511
1202	-.064	.049	.101	-.358	3206	-.232	.093	-.009	-.709
1301	-.051	.033	.090	-.245	3301	-.091	.034	.029	-.261
1302	-.069	.038	.050	-.232	3302	-.079	.031	.052	-.208
1303	-.083	.050	.138	-.342	3303	-.105	.047	.077	-.379
1304	-.092	.061	.098	-.380	3304	-.228	.094	.090	-.784
1401	-.129	.059	.015	-.453	3401	-.090	.034	.032	-.284
1402	-.107	.040	.102	-.268	3402	-.082	.035	.035	-.290
1403	-.116	.057	.201	-.481	3403	-.176	.080	.023	-.558
1404	-.114	.064	.066	-.529	3501	-.096	.035	.019	-.274
1501	-.152	.049	-.009	-.367	3502	-.101	.050	.077	-.370
1502	-.132	.041	0.000	-.304	3601	-.108	.042	.022	-.320
1503	-.131	.055	.031	-.431	4101	-.085	.026	.019	-.261
1504	-.123	.062	.052	-.475	4102	-.144	.028	-.027	-.564
1601	-.119	.032	-.023	-.216	4103	-.148	.038	.015	-.385
1602	-.119	.033	-.019	-.285	4104	-.200	.070	-.004	-.595
1603	-.120	.048	.039	-.371	4105	-.286	.075	-.076	-.738
1604	-.119	.052	.034	-.351	4106	-.195	.060	.034	-.457
1701	-.112	.031	.057	-.264	4107	-.210	.059	-.037	-.513
1702	-.107	.037	.017	-.363	4201	-.142	.024	-.049	-.244
1703	-.107	.049	.051	-.347	4202	-.142	.025	-.040	-.247
1801	-.119	.034	-.007	-.288	4203	-.147	.039	.086	-.385
1802	-.119	.039	.004	-.299	4204	-.206	.070	-.010	-.528
1803	-.120	.058	.130	-.588	4205	-.275	.071	-.106	-.629
1804	-.124	.050	.042	-.357	4206	-.192	.054	-.010	-.464
2101	-.149	.052	-.013	-.527	4207	-.191	.057	-.036	-.485
2102	-.157	.058	-.015	-.543	4301	-.154	.025	-.048	-.236
2103	-.104	.048	.067	-.303	4302	-.141	.025	.006	-.242
2201	-.143	.043	-.006	-.463	4303	-.144	.035	-.030	-.312
2202	-.144	.043	.019	-.371	4304	-.189	.058	-.033	-.461
2203	-.136	.091	.108	-.875	4305	-.236	.058	-.055	-.617
2301	-.129	.037	-.003	-.366	4306	-.173	.042	-.048	-.427
2302	-.136	.037	-.004	-.277	4307	-.172	.044	-.051	-.470
2303	-.147	.065	.039	-.517	4401	-.192	.041	-.049	-.373
2401	-.124	.036	.001	-.278	4402	-.171	.038	-.045	-.339
2402	-.123	.033	-.022	-.290	4403	-.168	.040	-.036	-.382
2403	-.136	.039	-.020	-.342	4404	-.162	.037	-.059	-.335

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=285

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.197	.035	-.092	-.351	5302	-.208	.040	-.075	-.501
4502	-.154	.025	-.052	-.312	5401	-.261	.037	-.152	-.474
4503	-.133	.030	.007	-.302	5402	-.195	.029	-.074	-.317
4504	-.189	.057	-.039	-.460	5501	-.269	.042	-.135	-.435
4505	-.223	.054	-.079	-.501	5502	-.261	.044	-.114	-.450
4506	-.179	.044	-.052	-.367	5503	-.252	.042	-.096	-.408
4507	-.169	.043	-.045	-.338	6101	-.289	.054	-.146	-.575
4508	-.169	.044	-.042	-.364	6102	-.291	.050	-.150	-.538
4509	-.147	.042	-.028	-.568	6103	-.280	.051	-.138	-.493
4601	-.153	.031	-.039	-.286	6201	-.304	.054	-.173	-.633
4602	-.124	.027	-.009	-.257	6202	-.302	.046	-.177	-.474
4603	-.144	.042	.040	-.360	6203	-.302	.048	-.165	-.558
4604	-.198	.051	-.052	-.422	6301	-.413	.089	-.208	-.817
4605	-.185	.053	-.028	-.427	6302	-.297	.048	-.159	-.463
4701	-.122	.032	.040	-.300	6303	-.270	.051	-.110	-.471
4702	-.121	.033	-.022	-.262	6401	-.265	.050	-.147	-.469
4703	-.139	.046	.043	-.373	6402	-.267	.053	-.123	-.490
4704	-.177	.052	-.012	-.418	6403	-.255	.052	-.093	-.441
4705	-.181	.058	-.015	-.498	6501	-.211	.037	-.105	-.364
4801	-.120	.032	.033	-.302	6502	-.264	.044	-.149	-.462
4802	-.122	.038	.049	-.308	6503	-.235	.043	-.104	-.403
4803	-.152	.046	-.004	-.439	6601	-.152	.039	-.014	-.317
4804	-.168	.056	.004	-.431	6602	-.229	.047	-.084	-.427
4901	-.119	.042	.037	-.363	6603	-.197	.048	-.014	-.438
4902	-.131	.041	.001	-.335	6701	-.112	.048	.059	-.302
4903	-.160	.051	-.009	-.376	6702	-.191	.047	-.014	-.430
4904	-.110	.038	.018	-.300	6703	-.163	.063	.039	-.486
4905	-.130	.039	-.004	-.327	6801	-.053	.050	.167	-.194
4906	-.111	.047	.040	-.381	6802	-.143	.046	.003	-.423
4907	-.134	.046	.031	-.338	6803	-.162	.050	.002	-.420
4908	-.105	.038	.031	-.305	6804	-.141	.072	.044	-.540
4909	-.115	.036	.022	-.275	6901	-.101	.041	.048	-.426
4910	-.116	.051	.062	-.449	6902	-.128	.044	.029	-.316
4911	-.127	.048	.007	-.397	6903	-.148	.046	.065	-.356
4912	-.130	.057	.013	-.415	6904	-.150	.062	.026	-.516
5101	-.273	.052	-.123	-.535	6905	-.156	.065	.023	-.567
5102	-.289	.058	-.134	-.555	7101	-.267	.056	-.062	-.466
5103	-.275	.067	-.138	-.546	7102	-.215	.033	-.096	-.349
5104	-.184	.033	-.083	-.376	7103	-.156	.031	-.041	-.298
5201	-.291	.044	-.161	-.507	8101	-.187	.036	-.077	-.356
5202	-.254	.058	-.119	-.555	8102	-.187	.035	-.047	-.350
5301	-.280	.043	-.149	-.528	8103	-.177	.032	-.090	-.313

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=300

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	.006	.039	.176	-.275	3101	-.121	.047	.026	-.359
1102	-.010	.041	.123	-.256	3201	-.126	.052	.018	-.492
1103	-.024	.041	.126	-.479	3202	-.114	.044	.072	-.313
1104	-.045	.042	.125	-.411	3203	-.091	.052	.113	-.301
1105	-.066	.070	.197	-.475	3204	-.176	.066	.012	-.470
1201	.006	.040	.175	-.198	3205	-.184	.067	.013	-.492
1202	.002	.042	.176	-.250	3206	-.281	.100	-.004	-.779
1301	.013	.054	.278	-.134	3301	-.114	.046	.047	-.332
1302	-.005	.054	.206	-.182	3302	-.074	.036	.087	-.235
1303	-.014	.063	.242	-.342	3303	-.094	.044	.063	-.394
1304	-.059	.068	.148	-.432	3304	-.209	.100	.050	-.708
1401	-.050	.051	.162	-.303	3401	-.113	.046	.031	-.351
1402	-.041	.063	.219	-.314	3402	-.068	.037	.100	-.267
1403	-.045	.077	.260	-.406	3403	-.127	.087	.135	-.535
1404	-.078	.082	.172	-.588	3501	-.120	.045	.031	-.398
1501	-.119	.076	.090	-.463	3502	-.062	.047	.094	-.384
1502	-.115	.078	.222	-.548	3601	-.138	.051	.043	-.444
1503	-.121	.090	.210	-.588	4101	-.117	.062	.169	-.381
1504	-.138	.092	.137	-.814	4102	-.247	.087	.015	-.567
1601	-.111	.042	.056	-.328	4103	-.315	.084	.025	-.695
1602	-.142	.055	.113	-.370	4104	-.329	.073	-.138	-.695
1603	-.166	.082	.275	-.551	4105	-.285	.068	-.098	-.654
1604	-.173	.076	-.016	-.722	4106	-.261	.070	-.083	-.643
1701	-.110	.041	.084	-.356	4107	-.256	.080	-.049	-.654
1702	-.145	.058	.060	-.406	4201	-.169	.061	.115	-.409
1703	-.148	.060	.040	-.397	4202	-.236	.076	.074	-.528
1801	-.132	.050	.037	-.362	4203	-.285	.074	-.043	-.597
1802	-.161	.065	.046	-.548	4204	-.291	.064	-.122	-.584
1803	-.178	.078	.078	-.794	4205	-.245	.058	-.106	-.557
1804	-.154	.055	-.009	-.450	4206	-.223	.062	-.031	-.506
2101	-.201	.092	.071	-.675	4207	-.232	.082	-.022	-.731
2102	-.212	.113	.088	-.796	4301	-.168	.060	.088	-.464
2103	-.114	.055	.054	-.357	4302	-.220	.072	.061	-.518
2201	-.193	.074	.166	-.611	4303	-.262	.068	-.009	-.560
2202	-.199	.075	.179	-.478	4304	-.258	.061	-.083	-.756
2203	-.194	.135	.122	-1.036	4305	-.226	.056	-.071	-.566
2301	-.188	.063	-.010	-.531	4306	-.203	.056	-.045	-.500
2302	-.204	.066	-.024	-.567	4307	-.203	.069	-.009	-.807
2303	-.222	.087	.009	-.685	4401	-.211	.052	-.066	-.581
2401	-.177	.057	-.007	-.426	4402	-.202	.051	-.064	-.555
2402	-.185	.050	-.029	-.388	4403	-.196	.058	-.033	-.689
2403	-.200	.056	-.019	-.448	4404	-.200	.066	-.025	-.880

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=300

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.173	.065	.043	-.521	5302	-.174	.053	.072	-.412
4502	-.186	.061	.079	-.491	5401	-.212	.038	-.033	-.388
4503	-.214	.065	.004	-.500	5402	-.175	.057	.106	-.415
4504	-.231	.057	-.004	-.576	5501	-.212	.043	-.068	-.423
4505	-.213	.054	-.068	-.511	5502	-.203	.051	-.041	-.486
4506	-.206	.052	-.073	-.517	5503	-.204	.061	.032	-.660
4507	-.197	.052	-.064	-.634	6101	-.262	.065	-.098	-.784
4508	-.197	.065	-.028	-.706	6102	-.263	.050	-.140	-.524
4509	-.186	.073	.009	-.759	6103	-.245	.048	-.106	-.461
4601	-.180	.080	.048	-.573	6201	-.275	.058	-.130	-.661
4602	-.186	.059	.046	-.424	6202	-.269	.049	-.133	-.533
4603	-.205	.054	-.055	-.539	6203	-.266	.052	-.072	-.574
4604	-.198	.058	-.045	-.642	6301	-.324	.087	-.121	-.716
4605	-.206	.078	-.031	-.886	6302	-.249	.046	-.119	-.439
4701	-.185	.074	.049	-.518	6303	-.231	.055	-.053	-.663
4702	-.185	.054	.010	-.563	6401	-.226	.043	-.045	-.418
4703	-.181	.052	.007	-.557	6402	-.223	.044	-.059	-.402
4704	-.175	.059	.013	-.661	6403	-.234	.077	-.003	-.711
4705	-.179	.104	.122	-1.300	6501	-.173	.037	-.041	-.370
4801	-.181	.070	.010	-.624	6502	-.211	.043	-.065	-.439
4802	-.169	.052	-.016	-.430	6503	-.221	.097	.151	-.986
4803	-.162	.064	.058	-.783	6601	-.149	.049	.018	-.387
4804	-.162	.107	.141	-1.529	6602	-.176	.047	-.005	-.362
4901	-.170	.068	.012	-.555	6603	-.205	.077	.050	-.609
4902	-.153	.069	.043	-.713	6701	-.128	.048	.047	-.361
4903	-.158	.107	.054	-1.332	6702	-.160	.040	-.032	-.430
4904	-.157	.074	.010	-.645	6703	-.181	.062	.038	-.728
4905	-.153	.094	.045	-1.109	6801	-.113	.042	.128	-.260
4906	-.165	.099	.034	-1.029	6802	-.127	.036	-.014	-.281
4907	-.162	.103	.040	-.933	6803	-.148	.035	-.033	-.319
4908	-.161	.097	.022	-.829	6804	-.162	.062	.044	-.523
4909	-.161	.090	.015	-.677	6901	-.091	.047	.057	-.449
4910	-.160	.113	.079	-.974	6902	-.091	.046	.082	-.376
4911	-.158	.095	.063	-.887	6903	-.125	.050	.030	-.512
4912	-.148	.097	.086	-.765	6904	-.139	.050	.047	-.414
5101	-.197	.055	-.031	-.530	6905	-.157	.076	.069	-.657
5102	-.202	.065	-.009	-.548	7101	-.256	.058	-.086	-.542
5103	-.187	.057	.008	-.545	7102	-.187	.033	-.057	-.323
5104	-.179	.064	.065	-.447	7103	-.145	.037	.005	-.304
5201	-.226	.047	-.077	-.492	8101	-.128	.033	-.009	-.396
5202	-.183	.052	.012	-.501	8102	-.120	.036	.008	-.299
5301	-.223	.039	-.089	-.524	8103	-.130	.037	-.008	-.375

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=315

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.040	.035	.122	-.174	3101	-.086	.050	.102	-.265
1102	-.081	.038	.053	-.237	3201	-.173	.067	.021	-.585
1103	-.071	.037	.074	-.225	3202	-.088	.044	.060	-.296
1104	-.084	.045	.051	-.305	3203	-.021	.061	.202	-.249
1105	-.097	.062	.091	-.381	3204	-.122	.076	.135	-.460
1201	-.012	.033	.127	-.138	3205	-.149	.076	.097	-.540
1202	-.024	.031	.107	-.143	3206	-.225	.108	.207	-.953
1301	.102	.057	.368	-.066	3301	-.148	.052	.007	-.393
1302	.019	.036	.168	-.131	3302	-.037	.046	.197	-.212
1303	.013	.036	.149	-.169	3303	-.013	.058	.224	-.237
1304	-.067	.054	.116	-.371	3304	-.068	.113	.228	-.560
1401	-.041	.048	.188	-.250	3401	-.149	.051	.026	-.440
1402	.042	.042	.202	-.196	3402	-.009	.054	.203	-.199
1403	.046	.042	.229	-.272	3403	-.008	.081	.262	-.497
1404	-.067	.062	.140	-.353	3501	-.152	.047	.016	-.409
1501	-.069	.059	.157	-.346	3502	-.002	.056	.210	-.425
1502	.055	.083	.396	-.455	3601	-.166	.050	-.015	-.471
1503	.065	.090	.419	-.374	4101	-.235	.054	-.068	-.484
1504	-.094	.089	.275	-.669	4102	-.338	.062	-.140	-.604
1601	-.014	.062	.294	-.203	4103	-.348	.067	-.176	-.730
1602	-.066	.079	.306	-.400	4104	-.340	.074	-.161	-.761
1603	-.158	.079	.212	-.591	4105	-.326	.073	-.146	-.809
1604	-.189	.071	-.022	-.577	4106	-.307	.064	-.055	-.697
1701	-.050	.050	.249	-.294	4107	-.307	.073	-.082	-.806
1702	-.146	.071	.107	-.606	4201	-.287	.055	-.052	-.521
1703	-.135	.062	.029	-.431	4202	-.309	.059	-.039	-.539
1801	-.080	.063	.110	-.488	4203	-.322	.064	-.152	-.685
1802	-.144	.086	.071	-.712	4204	-.321	.068	-.146	-.767
1803	-.170	.093	-.004	-.914	4205	-.303	.064	-.131	-.884
1804	-.143	.060	.015	-.418	4206	-.294	.063	-.109	-.697
2101	-.101	.121	.290	-.687	4207	-.290	.076	-.051	-1.127
2102	-.094	.115	.177	-.749	4301	-.303	.068	-.079	-.676
2103	-.052	.058	.210	-.327	4302	-.298	.061	-.113	-.560
2201	-.081	.099	.331	-.419	4303	-.307	.066	-.133	-.633
2202	-.099	.119	.384	-.472	4304	-.313	.080	-.122	-.845
2203	-.142	.171	.268	-1.072	4305	-.301	.080	-.107	-1.037
2301	-.153	.089	.185	-.628	4306	-.273	.067	-.079	-.897
2302	-.204	.099	.163	-.638	4307	-.273	.081	-.072	-1.381
2303	-.209	.106	.104	-.741	4401	-.289	.092	-.084	-.916
2401	-.150	.070	.115	-.555	4402	-.271	.079	-.084	-.834
2402	-.199	.072	.044	-.725	4403	-.269	.089	-.081	-1.036
2403	-.221	.094	.107	-1.751	4404	-.267	.087	-.079	-.852

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=315

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.332	.104	.030	-1.073	5302	-.311	.063	-.007	-.553
4502	-.316	.079	.022	-.697	5401	-.335	.090	-.084	-.714
4503	-.296	.073	.066	-.736	5402	-.318	.065	-.046	-.621
4504	-.304	.101	-.101	-.981	5501	-.350	.095	.043	-.849
4505	-.317	.128	-.094	-1.539	5502	-.350	.096	-.112	-.925
4506	-.296	.109	-.100	-1.333	5503	-.356	.095	-.111	-.949
4507	-.287	.105	-.018	-1.163	6101	-.295	.082	-.022	-.777
4508	-.305	.134	.054	-1.628	6102	-.329	.087	-.130	-.987
4509	-.279	.109	-.004	-1.176	6103	-.324	.079	-.108	-.792
4601	-.345	.117	-.081	-.936	6201	-.269	.058	-.096	-.721
4602	-.294	.078	-.058	-.613	6202	-.269	.053	-.118	-.511
4603	-.294	.100	-.025	-1.048	6203	-.302	.061	-.090	-.694
4604	-.308	.144	-.019	-1.678	6301	-.237	.049	-.091	-.576
4605	-.309	.168	.033	-2.188	6302	-.256	.047	-.108	-.588
4701	-.331	.143	-.027	-1.204	6303	-.290	.057	-.130	-.621
4702	-.285	.093	-.010	-.828	6401	-.235	.048	-.045	-.430
4703	-.290	.119	-.039	-1.185	6402	-.239	.047	-.115	-.447
4704	-.308	.173	.024	-1.761	6403	-.297	.060	-.102	-.576
4705	-.307	.175	.067	-1.648	6501	-.188	.041	-.030	-.393
4801	-.302	.154	.009	-1.107	6502	-.227	.041	-.102	-.393
4802	-.271	.119	.067	-.901	6503	-.292	.061	-.088	-.649
4803	-.292	.169	.072	-1.258	6601	-.209	.061	.028	-.544
4804	-.289	.160	.057	-1.807	6602	-.196	.038	-.052	-.361
4901	-.285	.171	.007	-1.479	6603	-.290	.078	-.057	-.654
4902	-.268	.160	.093	-1.555	6701	-.210	.046	-.043	-.493
4903	-.269	.146	.069	-1.257	6702	-.205	.047	-.051	-.388
4904	-.265	.157	.127	-1.478	6703	-.249	.089	.012	-.919
4905	-.266	.152	.031	-1.640	6801	-.192	.039	-.057	-.361
4906	-.277	.172	.052	-1.487	6802	-.193	.039	-.067	-.345
4907	-.253	.133	.010	-1.227	6803	-.200	.045	-.054	-.387
4908	-.264	.144	.007	-1.342	6804	-.234	.102	.021	-.855
4909	-.250	.118	.007	-1.013	6901	-.176	.043	-.024	-.382
4910	-.277	.170	.084	-1.698	6902	-.161	.044	.004	-.352
4911	-.245	.126	.061	-1.473	6903	-.169	.045	-.031	-.436
4912	-.244	.126	.045	-.972	6904	-.187	.065	.007	-.577
5101	-.340	.116	-.028	-1.055	6905	-.221	.093	-.004	-.766
5102	-.335	.093	.072	-.837	7101	-.242	.047	-.034	-.478
5103	-.337	.079	.022	-.834	7102	-.233	.039	-.057	-.420
5104	-.329	.059	-.007	-.604	7103	-.219	.046	.022	-.433
5201	-.340	.096	-.024	-.852	8101	-.200	.048	-.049	-.534
5202	-.313	.074	.076	-.616	8102	-.242	.085	-.039	-.873
5301	-.333	.090	-.045	-.832	8103	-.222	.059	-.052	-.580

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=330

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.078	.036	.026	-.249	3101	-.004	.056	.237	-.243
1102	-.132	.040	-.018	-.316	3201	-.150	.050	-.010	-.528
1103	-.110	.039	.025	-.300	3202	-.016	.048	.184	-.255
1104	-.112	.042	.013	-.294	3203	.075	.081	.359	-.275
1105	-.111	.052	.054	-.353	3204	.043	.093	.409	-.291
1201	-.035	.031	.097	-.134	3205	.010	.104	.414	-.400
1202	-.047	.032	.174	-.160	3206	-.029	.137	.440	-.676
1301	.109	.053	.396	-.050	3301	-.131	.046	.026	-.483
1302	.019	.040	.277	-.118	3302	.030	.060	.296	-.165
1303	.025	.048	.371	-.118	3303	.112	.079	.483	-.146
1304	-.070	.049	.131	-.334	3304	.115	.111	.571	-.599
1401	-.050	.042	.125	-.238	3401	-.135	.040	.009	-.359
1402	.066	.049	.280	-.166	3402	.091	.074	.392	-.208
1403	.076	.053	.299	-.115	3403	.138	.091	.520	-.300
1404	-.064	.051	.115	-.262	3501	-.137	.039	-.015	-.322
1501	-.043	.054	.163	-.266	3502	.094	.072	.374	-.094
1502	.125	.074	.397	-.156	3601	-.151	.039	-.031	-.299
1503	.147	.076	.474	-.077	4101	-.269	.048	-.088	-.505
1504	-.021	.064	.208	-.392	4102	-.340	.047	-.190	-.544
1601	.083	.071	.515	-.121	4103	-.337	.047	-.204	-.541
1602	-.023	.063	.238	-.308	4104	-.326	.048	-.190	-.569
1603	-.074	.083	.303	-.515	4105	-.318	.048	-.177	-.589
1604	-.154	.062	.178	-.489	4106	-.307	.047	-.171	-.575
1701	-.012	.073	.297	-.483	4107	-.303	.050	-.159	-.660
1702	-.048	.058	.124	-.393	4201	-.332	.055	-.189	-.528
1703	-.052	.053	.158	-.252	4202	-.327	.051	-.143	-.566
1801	-.033	.074	.208	-.659	4203	-.322	.051	-.134	-.599
1802	-.033	.063	.149	-.464	4204	-.314	.050	-.169	-.531
1803	-.057	.060	.128	-.536	4205	-.298	.047	-.146	-.505
1804	-.059	.049	.110	-.249	4206	-.292	.046	-.129	-.502
2101	.054	.060	.297	-.272	4207	-.293	.049	-.159	-.584
2102	.045	.059	.259	-.286	4301	-.371	.071	-.169	-.746
2103	.048	.063	.328	-.153	4302	-.339	.054	-.193	-.639
2201	.102	.080	.473	-.206	4303	-.323	.053	-.190	-.688
2202	.122	.106	.449	-.408	4304	-.308	.059	-.143	-.939
2203	.075	.131	.537	-.933	4305	-.293	.056	-.128	-.847
2301	.035	.097	.368	-.464	4306	-.270	.048	-.111	-.642
2302	.001	.108	.314	-.412	4307	-.267	.051	-.098	-.632
2303	-.032	.115	.349	-.552	4401	-.281	.059	-.141	-.785
2401	-.009	.085	.347	-.405	4402	-.270	.054	-.137	-.693
2402	-.074	.099	.452	-.668	4403	-.263	.055	-.110	-.620
2403	-.148	.155	.414	-1.213	4404	-.260	.055	-.088	-.584

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=330

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.385	.121	-.150	-1.354	5302	-.386	.072	-.081	-.715
4502	-.353	.079	-.128	-.755	5401	-.408	.084	-.180	-.866
4503	-.320	.060	-.128	-.650	5402	-.393	.070	-.232	-.886
4504	-.301	.072	-.150	-1.009	5501	-.413	.086	-.215	-1.203
4505	-.298	.088	-.138	-2.038	5502	-.398	.084	-.201	-1.043
4506	-.285	.070	-.138	-1.168	5503	-.407	.095	-.205	-.928
4507	-.281	.069	-.120	-1.118	6101	-.281	.055	-.076	-.624
4508	-.301	.084	-.088	-1.335	6102	-.319	.069	-.045	-.760
4509	-.272	.064	-.120	-.688	6103	-.350	.065	-.151	-.670
4601	-.385	.121	-.037	-1.350	6201	-.272	.048	-.072	-.479
4602	-.323	.078	-.137	-.789	6202	-.294	.041	-.145	-.482
4603	-.308	.092	-.024	-1.330	6203	-.360	.052	-.141	-.615
4604	-.298	.097	-.095	-2.002	6301	-.255	.044	-.082	-.461
4605	-.292	.086	-.091	-1.100	6302	-.287	.041	-.148	-.479
4701	-.368	.138	-.073	-1.436	6303	-.346	.049	-.174	-.618
4702	-.312	.088	-.064	-.920	6401	-.262	.039	-.108	-.406
4703	-.305	.102	-.088	-1.333	6402	-.264	.040	-.084	-.416
4704	-.305	.116	-.058	-1.527	6403	-.347	.052	-.198	-.616
4705	-.294	.103	-.049	-1.275	6501	-.232	.036	-.084	-.361
4801	-.341	.146	-.031	-1.631	6502	-.253	.038	-.142	-.413
4802	-.297	.094	0.000	-.846	6503	-.329	.057	-.180	-.584
4803	-.294	.117	-.019	-1.730	6601	-.267	.065	-.094	-.619
4804	-.283	.104	-.067	-1.472	6602	-.256	.049	-.073	-.513
4901	-.320	.137	-.018	-1.091	6603	-.327	.075	-.139	-.762
4902	-.284	.100	-.028	-.942	6701	-.267	.055	-.130	-.664
4903	-.278	.100	-.054	-1.017	6702	-.260	.046	-.124	-.509
4904	-.295	.113	0.000	-1.131	6703	-.294	.082	-.088	-.836
4905	-.281	.108	.001	-1.155	6801	-.248	.053	-.126	-.672
4906	-.316	.145	.043	-1.220	6802	-.244	.053	-.102	-.612
4907	-.283	.107	-.021	-1.066	6803	-.248	.052	-.076	-.608
4908	-.302	.122	-.080	-1.063	6804	-.278	.085	-.036	-.789
4909	-.281	.097	-.079	-.917	6901	-.239	.052	-.064	-.536
4910	-.320	.151	.016	-1.167	6902	-.228	.049	-.076	-.486
4911	-.280	.109	-.068	-1.318	6903	-.229	.051	-.076	-.444
4912	-.281	.109	-.048	-1.003	6904	-.236	.060	-.072	-.549
5101	-.393	.104	-.070	-1.082	6905	-.265	.079	-.064	-.766
5102	-.392	.074	-.153	-.745	7101	-.292	.039	-.180	-.506
5103	-.389	.063	-.199	-.751	7102	-.276	.035	-.124	-.392
5104	-.368	.053	-.201	-.619	7103	-.256	.049	-.079	-.471
5201	-.430	.099	-.141	-.923	8101	-.276	.074	-.085	-.708
5202	-.394	.076	-.057	-.780	8102	-.386	.121	-.112	-1.047
5301	-.421	.089	-.076	-.841	8103	-.281	.068	-.031	-.637

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=345

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
1101	-.087	.039	.043	-.263	3101	.062	.069	.344	-.182
1102	-.154	.042	-.022	-.389	3201	-.112	.056	.076	-.376
1103	-.123	.043	.028	-.328	3202	.067	.073	.325	-.444
1104	-.119	.046	.054	-.322	3203	.129	.107	.524	-.210
1105	-.099	.055	.110	-.355	3204	.197	.102	.592	-.116
1201	-.021	.041	.207	-.159	3205	.200	.106	.643	-.140
1202	-.036	.041	.172	-.197	3206	.164	.142	.696	-.568
1301	.164	.070	.477	-.041	3301	-.111	.042	.047	-.275
1302	.050	.054	.348	-.128	3302	.089	.076	.411	-.147
1303	.067	.068	.445	-.134	3303	.203	.094	.592	-.063
1304	-.045	.061	.244	-.258	3304	.241	.104	.728	-.046
1401	-.051	.044	.117	-.242	3401	-.113	.037	.057	-.253
1402	.117	.059	.416	-.025	3402	.150	.086	.492	-.065
1403	.129	.068	.424	-.035	3403	.219	.101	.618	-.345
1404	-.030	.058	.197	-.273	3501	-.111	.037	.082	-.264
1501	-.040	.054	.176	-.257	3502	.150	.084	.479	-.041
1502	.194	.072	.476	-.059	3601	-.120	.037	.021	-.263
1503	.215	.079	.567	-.035	4101	-.261	.042	-.137	-.444
1504	.025	.061	.234	-.245	4102	-.319	.040	-.152	-.480
1601	.123	.076	.511	-.182	4103	-.309	.039	-.186	-.486
1602	.059	.074	.363	-.225	4104	-.297	.037	-.195	-.449
1603	.058	.117	.483	-.366	4105	-.291	.036	-.183	-.432
1604	-.051	.099	.385	-.404	4106	-.286	.040	-.164	-.426
1701	.058	.075	.375	-.380	4107	-.280	.039	-.148	-.419
1702	.048	.061	.266	-.164	4201	-.337	.050	-.185	-.599
1703	.025	.070	.350	-.345	4202	-.315	.043	-.188	-.499
1801	.054	.076	.328	-.441	4203	-.301	.037	-.189	-.455
1802	.066	.060	.267	-.126	4204	-.292	.036	-.152	-.414
1803	.052	.068	.301	-.192	4205	-.277	.034	-.146	-.422
1804	.035	.067	.329	-.207	4206	-.272	.034	-.151	-.420
2101	.139	.059	.454	-.097	4207	-.276	.039	-.136	-.435
2102	.135	.060	.414	-.093	4301	-.363	.063	-.212	-.703
2103	.147	.078	.483	-.123	4302	-.329	.049	-.206	-.578
2201	.212	.077	.626	.037	4303	-.309	.044	-.174	-.511
2202	.235	.089	.736	.010	4304	-.285	.044	-.130	-.738
2203	.205	.103	.590	-.300	4305	-.276	.043	-.139	-.724
2301	.190	.086	.658	-.073	4306	-.259	.040	-.131	-.526
2302	.173	.085	.610	-.148	4307	-.256	.040	-.124	-.547
2303	.164	.120	.654	-.285	4401	-.262	.039	-.159	-.490
2401	.148	.089	.511	-.220	4402	-.255	.039	-.140	-.453
2402	.102	.118	.558	-.398	4403	-.248	.040	-.107	-.417
2403	.083	.202	.679	-1.129	4404	-.246	.041	-.091	-.416

WIND ENGINEERING STUDY OF GARDEN GROVE COMMUNITY CHURCH
CONFIGURATION 2 WIND DIRECTION=345

PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT	PRESSURE TAP NUMBER	MEAN PRESSURE COEFFICIENT	RMS PRESSURE COEFFICIENT	MAXIMUM PRESSURE COEFFICIENT	MINIMUM PRESSURE COEFFICIENT
4501	-.381	.103	-.189	-1.168	5302	-.392	.064	-.227	-.779
4502	-.337	.066	-.180	-.762	5401	-.397	.066	-.230	-.727
4503	-.304	.049	-.177	-.566	5402	-.386	.060	-.232	-.781
4504	-.280	.044	-.145	-.505	5501	-.394	.064	-.253	-.800
4505	-.280	.046	-.140	-.621	5502	-.387	.070	-.206	-.758
4506	-.275	.046	-.131	-.532	5503	-.398	.081	-.218	-.829
4507	-.270	.045	-.124	-.523	6101	-.291	.049	-.094	-.534
4508	-.282	.051	-.107	-.531	6102	-.309	.058	-.112	-.589
4509	-.266	.047	-.103	-.450	6103	-.338	.056	-.115	-.700
4601	-.358	.090	-.142	-1.101	6201	-.275	.049	-.102	-.522
4602	-.310	.059	-.177	-.756	6202	-.283	.048	-.088	-.483
4603	-.293	.058	-.145	-.684	6203	-.343	.047	-.188	-.559
4604	-.283	.061	-.119	-.654	6301	-.258	.044	-.069	-.465
4605	-.279	.057	-.051	-.633	6302	-.277	.044	-.057	-.429
4701	-.334	.096	-.085	-1.207	6303	-.328	.045	-.139	-.504
4702	-.299	.067	-.095	-.796	6401	-.271	.041	-.123	-.480
4703	-.282	.068	-.091	-.817	6402	-.264	.043	-.117	-.435
4704	-.276	.070	-.070	-.805	6403	-.331	.047	-.184	-.527
4705	-.263	.063	-.095	-.735	6501	-.258	.041	-.057	-.411
4801	-.312	.097	-.106	-1.590	6502	-.270	.045	-.099	-.411
4802	-.290	.070	-.086	-1.077	6503	-.330	.053	-.175	-.574
4803	-.282	.080	-.106	-1.127	6601	-.346	.103	-.118	-1.243
4804	-.268	.072	-.080	-.876	6602	-.287	.049	-.112	-.568
4901	-.303	.096	.007	-1.642	6603	-.325	.057	-.100	-.657
4902	-.284	.073	-.110	-.876	6701	-.319	.077	-.171	-.890
4903	-.276	.071	-.076	-.763	6702	-.305	.050	-.163	-.540
4904	-.291	.083	-.076	-1.174	6703	-.304	.056	-.121	-.684
4905	-.279	.073	-.073	-.937	6801	-.296	.052	-.138	-.592
4906	-.299	.090	-.127	-1.100	6802	-.295	.050	-.126	-.694
4907	-.282	.073	-.112	-.890	6803	-.291	.047	-.154	-.597
4908	-.289	.078	-.100	-.900	6804	-.298	.063	-.112	-.788
4909	-.282	.068	-.095	-.681	6901	-.283	.053	-.124	-.570
4910	-.297	.090	-.067	-1.098	6902	-.281	.050	-.127	-.579
4911	-.281	.073	-.052	-.772	6903	-.277	.051	-.106	-.559
4912	-.281	.075	-.073	-.735	6904	-.268	.054	-.094	-.579
5101	-.408	.097	-.186	-.964	6905	-.287	.062	-.099	-.606
5102	-.395	.067	-.209	-.755	7101	-.305	.038	-.202	-.479
5103	-.394	.058	-.257	-.676	7102	-.286	.038	-.070	-.411
5104	-.371	.049	-.253	-.595	7103	-.261	.047	-.058	-.492
5201	-.415	.084	-.205	-1.044	8101	-.322	.068	-.016	-.922
5202	-.401	.071	-.236	-.815	8102	-.464	.129	-.079	-1.177
5301	-.413	.073	-.239	-.818	8103	-.352	.085	-.072	-1.001